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NOTE: RIGHT OF WAY PLANS FOR THIS PROJECT WERE PREPARED AS PART OF PROJECT FRA-70-12.68 PID 77372 / 3084-E AND ARE NOT INCLUDED IN THIS PLAN SET.

| NO. | DESCRIPTION    | REV. BY | DATE       |
|-----|----------------|---------|------------|
| 1   | UPDATED SHEETS | CWL     | 11-5-2021  |
| 2   | UPDATED SHEETS | CWL     | 11-12-2021 |
| 4   | ADDED SHEET    | CWL     | 11-29-2021 |

CITY OF COLUMBUS:

APPROVED Steven Woods  
 DATE 5/26/2020 DESIGN SECTION ENGINEER, DIVISION OF DESIGN AND CONSTRUCTION  
 APPROVED [Signature]  
 DATE 5/28/2020 ADMINISTRATOR, DIVISION OF POWER  
 APPROVED [Signature]  
 DATE 5/28/2020 ADMINISTRATOR, DIVISION OF WATER  
 APPROVED [Signature]  
 DATE 5/28/2020 FIRE PREVENTION BUREAU, DIVISION OF FIRE

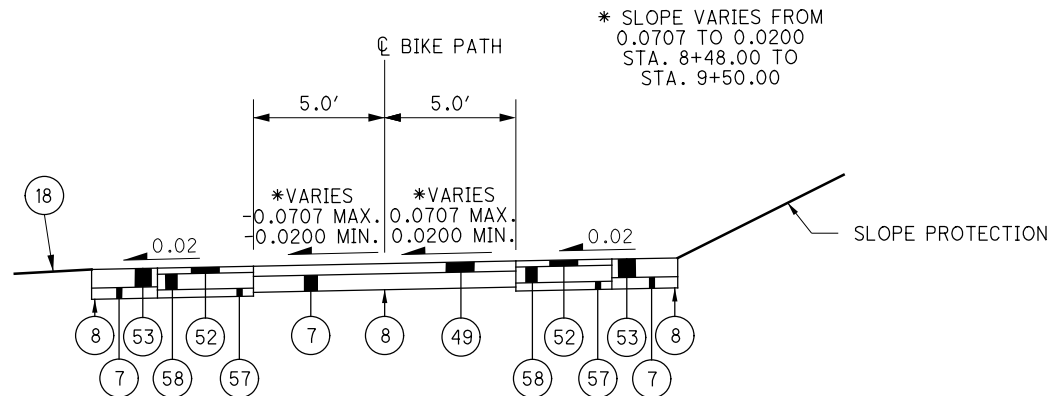
APPROVED MDT RMV John Newson  
 DATE 5/28/2020 ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE  
 APPROVED Trace Davis by RML  
 DATE 6/3/2020 DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES  
 APPROVED Don E. Evans for Paul Rakosky  
 DATE 5/29/2020 DIRECTOR, DEPARTMENT OF RECREATION AND PARKS

APPROVED James Young  
 DATE 8/24/2020 CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION  
 APPROVED Jennifer Gallagher  
 DATE 8/24/2020 DIRECTOR, DEPARTMENT OF PUBLIC SERVICE  
 APPROVED Erin Mirkley  
 DATE 5/28/2020 ENGINEERING SUPERVISOR, DEPARTMENT OF TECHNOLOGY

CITY OF COLUMBUS APPROVALS

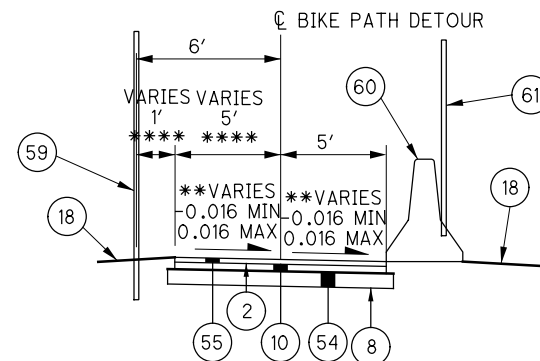
CITY OF COLUMBUS SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

| ENGINEERS SEAL:                                                       | ENGINEERS SEAL:                                                                                                                         | ENGINEERS SEAL:                                                          | ENGINEERS SEAL:                                                           | ENGINEERS SEAL:                                                                       | ENGINEERS SEAL:                                                                       | ENGINEERS SEAL:                                                                                                               | ENGINEERS SEAL:                                                                                 |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| FOR SHEETS 70 - 210<br><br>SIGNED: <u>[Signature]</u><br>DATE: 9/6/19 | FOR SHEETS 804 - 864, 889A - 891, 893 - 900, 905, 922 - 922C, 926 - 930, 938B - 941A<br><br>SIGNED: <u>[Signature]</u><br>DATE: 8/16/19 | FOR SHEETS 1122 - 1162<br><br>SIGNED: <u>[Signature]</u><br>DATE: 9/6/19 | FOR SHEETS 1163 - 1205A<br><br>SIGNED: <u>[Signature]</u><br>DATE: 9/6/19 | FOR SHEETS 1206 - 1225, 1747 - 1815<br><br>SIGNED: <u>[Signature]</u><br>DATE: 9/6/19 | FOR SHEETS 1228 - 1363, 1472 - 1563<br><br>SIGNED: <u>[Signature]</u><br>DATE: 9/6/19 | FOR SHEETS 692 - 803, 865 - 889, 892, 901 - 902, 1364 - 1471C, 1564 - 1746R<br><br>SIGNED: <u>[Signature]</u><br>DATE: 9/6/19 | FOR ENTIRE PLAN EXCEPT SHEETS OTHERWISE NOTED<br><br>SIGNED: <u>[Signature]</u><br>DATE: 9/6/19 |



**BIKE PATH SECTION**

LIMITING STATIONS  
STA. 8+48.00 TO STA. 11+53.75



**BIKE PATH DETOUR**

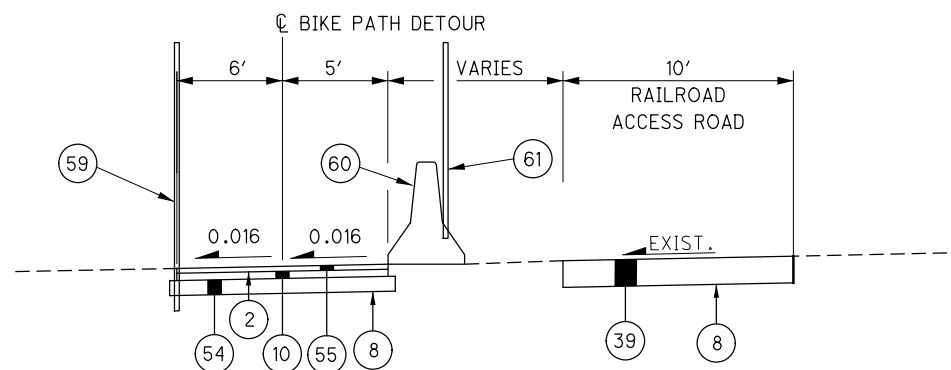
LIMITING STATIONS  
STA. 1+37.10 TO STA. 2+41.62 (SEE NOTE A)  
STA. 2+63.67 TO STA. 5+14.72 (SEE NOTE A)  
STA. 5+32.66 TO STA. 15+54.32 \*\*\*  
STA. 19+35.78 TO STA. 22+32.33 \*\*\*

\*\* SLOPE:  
EXIST. TO -0.016 STA. 1+37.10 TO STA. 1+50.00  
-0.016 STA. 1+50.00 TO STA. 2+25.00  
-0.016 TO EXIST. STA. 2+25.00 TO 2+41.62  
EXIST. TO 0.016 STA. 2+63.67 TO 3+00.00  
0.016 STA. 3+00.00 TO STA. 5+00.00  
0.016 TO EXIST. STA. 5+00.00 TO STA. 5+14.72  
EXIST TO 0.016 STA. 5+32.66 TO 5+50.00  
0.016 STA. 5+50.00 TO STA. 13+50.00  
0.016 TO -0.016 STA. 13+50.00 TO STA. 14+00.00  
-0.016 STA. 14+00.00 TO STA. 15+54.32  
-0.016 TO 0.016 STA. 19+35.78 TO STA. 19+50.00  
0.016 STA. 19+50.00 TO STA. 22+00.00  
0.016 TO EXIST. STA. 22+00.00 TO STA. 22+32.33

\*\*\* LIMITS: (59) STA. 13+78.34 TO STA. 15+54.32  
STA. 19+35.78 TO STA. 21+46.63  
(60) (61) STA. 13+90.50 TO STA. 15+54.32  
STA. 19+35.78 TO STA. 21+46.63

NOTE A:  
10' ON EACH SIDE OF EXISTING MAIER PLACE  
SHALL BE 8" CONCRETE WALK W/ DETECTABLE  
WARNING  
STA. 2+31.62 TO STA. 2+41.62  
STA. 2+63.67 TO STA. 2+73.67

\*\*\*\*  
WIDTHS 1' / 5' EXCEPT:  
VARIES 1' TO 0' / 5' TO 6'  
STA. 13+65.50 TO 13+90.50  
0' / 6'  
STA. 13+90.50 TO STA. 15+54.32  
0' / 6'  
STA. 19+35.78 TO STA. 21+46.63  
VARIES 0' TO 1' / 6' TO 5'  
STA. 21+46.63 TO 21+71.63



**BIKE PATH DETOUR**

LIMITING STATIONS  
STA. 15+54.32 TO STA. 19+35.78

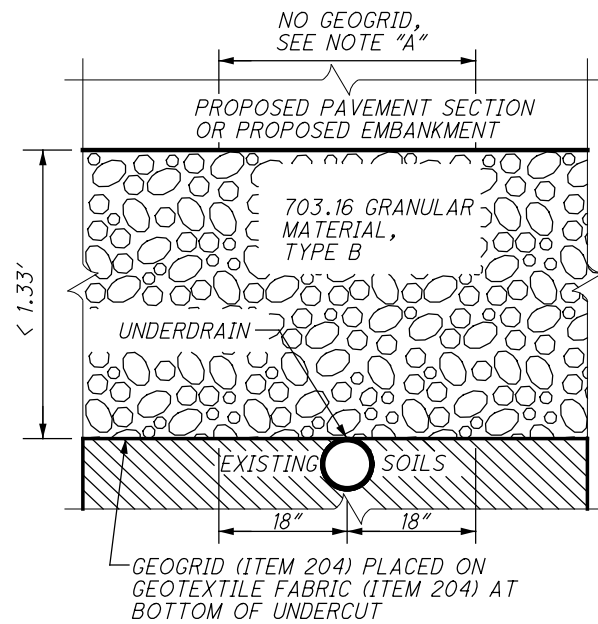
FOR PROPOSED LEGEND, SEE SHEET 20  
FOR CONCRETE PAVER AND RIPRAP DETAILS, SEE SHEET 582  
FOR BIKE PATH DETOUR PLANS, SEE SHEET 636 - 643R

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

**ROADWAY**

**SUBGRADE STABILIZATION**

THIS INVOLVES THE PLACEMENT OF GRANULAR MATERIAL, TYPE B FOR THE LOCATIONS OF UNSUITABLE MATERIALS AS VERIFIED AND DELINEATED BY THE ENGINEER.



**NOTE "A":**

THE CONTRACTOR SHALL SUSPEND THE USE OF GEOTEXTILE FABRIC AND GEOGRID WITHIN 18" OF EITHER SIDE OF A CONFLICTING UNDERDRAIN.

**DETAIL - UNDERCUT/ REPLACEMENT TREATMENT METHOD**  
NOT TO SCALE

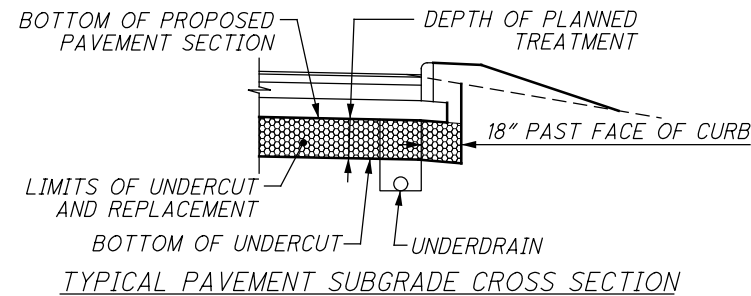
**ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING**

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE COMPACTING THE SUBGRADE WHEN ENCOUNTERED DURING CONSTRUCTION AND AS DIRECTED BY THE ENGINEER. UNSUITABLE SUBGRADE HAS NOT BEEN IDENTIFIED THROUGH THE EXPLORATION PROGRAM. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GRATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.
- COMPACT THE SUBGRADE ACCORDING TO 204.03.
- APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.

SEE PAVEMENT SUBGRADE IMPROVEMENT SCHEDULE ON THIS PAGE FOR LOCATIONS AND STATION LIMITS OF EXCAVATE AND REPLACE STABILIZATION.



**GUARDRAIL/BARRIER WORK AT PROPOSED SIGNS OUTSIDE OF PROJECT LIMITS**

THE TRAFFIC CONTROL PLANS ON SHT. NO. 1014 - 1082A INCLUDE THE CONSTRUCTION OF OVERHEAD SIGNS WHICH ARE LOCATED OUTSIDE OF THE ROADWAY PROJECT AREA. THE PROPOSED SIGN CONSTRUCTION REQUIRES THE REMOVAL AND REPLACEMENT OF THE EXISTING MEDIAN BARRIER AS PER ODOT STANDARD DRAWINGS AND DETAILS ON SHEETS 645 - 646.

**ESTIMATED QUANTITIES FOR SIGNS OUTSIDE OF PROJECT LIMITS**

| ITEM | DESCRIPTION                              | UNIT | SIGN REFERENCE NUMBER |         |         | TOTAL |
|------|------------------------------------------|------|-----------------------|---------|---------|-------|
|      |                                          |      | OSS-201               | OSS-203 | OSS-204 |       |
| 202  | CONCRETE BARRIER REMOVED                 | FT   | 90                    | 90      | 90      | 270   |
| 622  | BARRIER, MISC.: CONCRETE BARRIER, TYPE B | FT   | 80                    | 80      | 80      | 240   |
|      |                                          |      |                       |         |         |       |
|      |                                          |      |                       |         |         |       |
|      |                                          |      |                       |         |         |       |
|      |                                          |      |                       |         |         |       |

**PAVEMENT SUBGRADE IMPROVEMENT SCHEDULE**

| ALIGNMENT       | BEGIN STATION | END STATION | SUBGRADE METHOD | DEPTH OF TREATMENT | RECONSTRUCTION SIDE |
|-----------------|---------------|-------------|-----------------|--------------------|---------------------|
| FUTURE I-70 EB  | 125+96.00     | 126+97.69   | CEMENT          | 14"                | FULL WIDTH          |
| FUTURE I-70 EB  | 128+26.12     | 129+50.00   | CEMENT          | 14"                | FULL WIDTH          |
| FUTURE I-70 EB  | 129+50.00     | 134+05.00   | CEMENT          | 14"                | RIGHT               |
| I-70 EB         | 4157+88.17    | 4166+21.70  | CEMENT          | 14"                | RIGHT               |
| I-70 EB         | 4158+50.35    | 4166+01.56  | CEMENT          | 14"                | LEFT                |
| I-70 EB         | 4169+93.98    | 4172+00.00  | CEMENT          | 14"                | FULL WIDTH          |
| I-70 EB         | 4180+82.06    | 4186+25.00  | CEMENT          | 14"                | FULL WIDTH          |
| I-70 EB         | 4186+25.00    | 4205+28.94  | CEMENT          | 14"                | RIGHT               |
| I-70 EB         | 4186+25.00    | 4208+14.77  | CEMENT          | 14"                | LEFT                |
| I-71 NB         | 252+86.40     | 262+00.00   | CEMENT          | 14"                | FULL WIDTH          |
| I-71 NB         | 269+00.00     | 273+64.54   | CEMENT          | 14"                | FULL WIDTH          |
| RAMP A5         | 5003+23.96    | 5008+50.00  | CEMENT          | 14"                | FULL WIDTH          |
| RAMP C3         | 3005+50.00    | 3009+00.00  | CEMENT          | 14"                | FULL WIDTH          |
| RAMP C5         | 5024+38.21    | 5031+36.49  | CEMENT          | 14"                | FULL WIDTH          |
| RAMP C5         | 5062+13.35    | 5064+00.00  | CEMENT          | 14"                | FULL WIDTH          |
| FRONT ST.       | 147+75.00     | 148+61.92   | UNDERCUT        | 12"                | FULL WIDTH          |
| FRONT ST.       | 151+19.35     | 152+50.00   | UNDERCUT        | 12"                | FULL WIDTH          |
| FRONT ST.       | 155+13.37     | 156+03.49   | UNDERCUT        | 12"                | INTERSECTION        |
| FULTON ST.      | 19+58.05      | 23+15.00    | UNDERCUT        | 12"                | FULL WIDTH          |
| MOUND ST.       | 11+49.86      | 12+53.78    | UNDERCUT        | 12"                | INTERSECTION        |
| SOUDER AVE.     | 5+61.73       | 6+12.28     | UNDERCUT        | 12"                | RIGHT               |
| SOUDER AVE.     | 5+63.70       | 6+13.55     | UNDERCUT        | 12"                | LEFT                |
| LIVINGSTON AVE. | 200+04.62     | 202+45.02   | UNDERCUT        | 12"                | FULL WIDTH          |
| LIVINGSTON AVE. | 204+02.13     | 207+47.00   | UNDERCUT        | 12"                | FULL WIDTH          |

**ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN**

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT AT THE FOLLOWING LOCATIONS:

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| RAMP C5<br>FRA-70-1358A<br>FRA-70-1373A | STA. 5074+10.84 TO STA. 5076+10.84<br>STA. 5079+95.31 TO STA. 5080+45.86 |
| I-70 EB<br>FRA-70-1373R                 | STA. 4175+43.32 TO STA. 4175+93.32                                       |

**ITEM 203 - EMBANKMENT, AS PER PLAN "A"**

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT AT THE FOLLOWING LOCATIONS:

|                                                         |                                                                                                                |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| RAMP C5<br>FRA-70-1301A<br>FRA-70-1358A<br>FRA-70-1373A | STA. 5039+37.46 TO STA. 5041+87.96<br>STA. 5069+48.10 TO STA. 5071+48.10<br>STA. 5081+38.82 TO STA. 5081+88.82 |
| RAMP A5<br>FRA-71-1518A                                 | STA. 5013+36.09 TO STA. 5015+36.09                                                                             |
| I-70 EB<br>FRA-70-1373R                                 | STA. 4176+87.83 TO STA. 4177+37.83                                                                             |

**ITEM 203 - EMBANKMENT, AS PER PLAN "B"**

FOR THE VOID CREATED TO EXCAVATE AND CONSTRUCT THE PROPOSED TYPE D BARRIER, AS PER PLAN ALONG THE RIGHT SIDE OF I-71 NB FROM STA. 252+86.40 TO STA. 256+72.79, UTILIZE THE EXISTING EXCAVATED IMPERVIOUS MATERIAL OR OTHER SUITABLE IMPERVIOUS MATERIAL AS BACKFILL AND COMPACT TO FILL THE VOID CREATED BEHIND THE PROPOSED BARRIER WALL. CONTRACTOR TO MINIMIZE IMPACTS TO THE EXISTING LEVEE DURING CONSTRUCTION ACTIVITIES AS SET FORTH IN THE 408 PERMIT AND THE EMERGENCY ACTION PLAN.

EXCAVATION AND BACKFILL COMPACTION SHALL BE PER ODOT CMS 203 AND THE MOST RECENT USACE STANDARD OPERATING PROCEDURE (SOP) FOR EXCAVATION BENCHING AND/OR BACKFILL COMPACTION FOR LEVEE AND FLOODWALL MODIFICATIONS (14 JUNE 2021 LATEST VERSION). USACE PROCEDURES AND GUIDANCE SHALL SUPERCEDE AND SHALL BE FOLLOWED FOR ALL ALL EXCAVATION BENCHING AND BACKFILL WITHIN THE LEVEE EMBANKMENT AND WITHIN 15 FEET OF THE TOE OF THE LEVEE OR FACE OR FLOODWALL. ALL LEVEE EMBANKMENT MATERIAL AND LEVEE FOUNDATION MATERIAL DISTURBED DURING EXCAVATION FOR THE INSTALLATION OF THE TYPE D BARRIER AND THE OVERLAPPING OF THE I-WALL SECTION SHALL BE REPLACED ACCORDING THE USACE SOP.

ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THE ABOVE DESCRIBED WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 - EMBANKMENT, AS PER PLAN "B".

QUANTITIES CARRIED TO GENERAL NOTES SUBSUMMARY ON SHEET 69A

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
|     |                   | CWL     | 11-29-2021 |
| 4   | UPDATED 203 NOTES |         |            |

**GENERAL NOTES**

FRA - 70 / 71 - 12.68 / 14.86

**ENVIRONMENTAL (CONTINUED)**

**LOWER SCIOTO BIKEWAY (LSB),  
SCIOTO AUDUBON METRO PARK (SAMP)  
DODGE PARK**

SEE SHEETS 629- 635 FOR LSB PLANS.  
SEE SHEETS 636 - 643 FOR LSB DETOUR PLANS.  
SEE SHEET 1049 FOR LSB DETOUR TRAFFIC CONTROL PLANS.

1. THE LSB DETOUR WILL BE CONSTRUCTED AS SHOWN ON SHEETS 636 - 643 AND RECONNECT TO THE EXISTING TRAIL SYSTEM.
2. THE CONTRACTOR WILL KEEP OPEN EITHER THE LSB OR THE LSB DETOUR IN ORDER TO MINIMIZE INTERACTION BETWEEN TRAIL USERS AND CONSTRUCTION ACTIVITIES, EXCEPT FOR THE TWO-WEEK PARK CLOSURE PERIODS. BOTH TRAILS MUST BE CLOSED WHEN THE PARK IS CLOSED TO ENSURE THE SAFETY OF TRAIL USERS.
3. TO ENABLE THE CONTRACTOR TO HAUL MATERIALS TO THE PROJECT SITE, THE SAMP SHALL BE ALLOWED TO BE CLOSED FOR A PERIOD OF TWO (2) WEEKS BETWEEN JANUARY 1, 2022 AND MARCH 15, 2022 AND AGAIN BETWEEN NOVEMBER 1, 2022 AND MARCH 15, 2023. THE CONTRACTOR MUST NOTIFY ODOT AT LEAST 14 DAYS IN ADVANCE OF THE REQUESTED CLOSURE.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE GRANGE INSURANCE AUDUBON CENTER, PRIVATE BUSINESSES, AND UTILITY COMPANY PROPERTIES DURING THE 2-WEEK CLOSURE PERIODS OF THE SAMP.
5. OUTSIDE THE 2-WEEK CLOSURE PERIODS, TRUCK DELIVERIES WILL BE ALLOWED FROM 9:00 PM THRU 6:00 AM APRIL 1 THRU SEPTEMBER 30 AND 6:00 PM TO 7:00 AM OCTOBER 1 THRU MARCH 31. OUTSIDE OF THOSE DESIGNATED HOURS, ONLY TRUCKS WITH A TOTAL WEIGHT OF LESS THAN 13 TONS WILL BE ALLOWED TO BE WITHIN THE SAMP.
6. ANY CONCRETE POUR THAT IS LARGER THAN 200 CUBIC YARDS IS TO BE PERFORMED OUTSIDE OF SAMP HOURS (6:30 AM TO 8:00 PM). CONCRETE POURS SMALLER THAN 200 CUBIC YARDS MAY BE PERFORMED DURING NORMAL SAMP HOURS. THIS WILL BE THE ONLY EXCEPTION TO THE TONNAGE RESTRICTION ABOVE. THE CONTRACTOR WILL INSTALL SIGNAGE AT THE PARK ENTRANCE TO NOTIFY USERS OF HIGHER THAN USUAL TRUCK TRAFFIC FOR THESE EVENTS.
7. IF ADDITIONAL CLOSURES OF THE LSB OR LSB DETOUR ARE ANTICIPATED, THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS, FRANKLIN COUNTY METRO PARKS, AND ODOT AT LEAST 7 DAYS BEFORE THE REQUESTED CLOSURE IS TO OCCUR.
8. THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING ALONG THE LSB, LSB DETOUR AND PROPOSED CONSTRUCTION LIMITS TO PROTECT THE SECTION 4(F) PROPERTIES AND THE PUBLIC.
9. 8' TALL FENCING WITH MESH FENCE SCREENING SHALL BE INSTALLED ALONG THE WEST SIDE OF THE LSB DETOUR TO SHIELD TRAIL USERS FROM CONSTRUCTION. PORTABLE BARRIER W/ VANDAL FENCING WILL ALSO BE PROVIDED BETWEEN THE LSB DETOUR AND THE RAILROAD ACCESS ROAD AS SHOWN IN THE PLANS.
10. DURING PERIODS OF NO CONSTRUCTION ACTIVITY, THE EXISTING LSB WILL BE OPEN FOR PUBLIC USE.
11. APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF THE SAMP, LSB AND LSB DETOUR OF CONSTRUCTION ACTIVITIES, ACCESS RESTRICTIONS OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS. SEE TRAFFIC CONTROL PLANS ON SHEET 1049.
12. VEHICULAR, PEDESTRIAN, AND BICYCLE ACCESS WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES EXCEPT FOR THE 2-WEEK CLOSURE PERIODS OF THE SAMP.
13. NO CONSTRUCTION ACTIVITY SHALL OCCUR DURING RED WHITE AND BOOM AND ONE DAY PRECEDING THE EVENT. THE CONSTRUCTION ACTIVITY LIMITATION DATES FOR RED WHITE AND BOOM FOR EACH YEAR WILL BE PROVIDED TO THE CONTRACTOR BY ODOT.
14. THE CONTRACTOR SHALL BE ALLOWED TO STAGE AND STORE WITHIN THE SAMP AS SHOWN ON SHEET 67A. THE AREA WAS PREVIOUSLY OCCUPIED BY A DOG PARK WHICH CONTAINED A SHELTER HOUSE AND WATER FOUNTAIN. THE WATER LINE REMAINS IN PLACE. THE CONTRACTOR WILL PRESERVE THE WATERLINE DURING CONSTRUCTION. ADDITIONALLY, THIS AREA IS PROTECTED BY A 2' SOIL CAP. AT NO TIME WILL THE CONTRACTOR DISTURB THIS CAP.

15. THE STAGING AND/OR STORAGE OF CONSTRUCTION EQUIPMENT SHALL NOT TAKE PLACE OUTSIDE OF THE FENCED CONSTRUCTION LIMITS WITHIN THE DEFINED BOUNDARIES OF THE SAMP.
  16. THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT DISTRICT 6, COLUMBUS RECREATION AND PARKS, AND FRANKLIN COUNTY METRO PARKS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
  17. A REPRESENTATIVE FROM COLUMBUS RECREATION AND PARKS AND FRANKLIN COUNTY METRO PARKS SHALL BE INVITED TO ATTEND ALL CONSTRUCTION RELATED MEETINGS. A SCHEDULE OF CONSTRUCTION ACTIVITIES SHALL BE PROVIDED TO COLUMBUS RECREATION AND PARKS AND SAMP REPRESENTATIVES.
- CONTACT INFORMATION:
- CITY OF COLUMBUS RECREATION AND PARKS:  
BRAD WESTALL - (614) 645-2441  
BRWestall@Columbus.gov
- FRANKLIN COUNTY METRO PARKS:  
DJ WHITE - (614) 445-1076
18. ODOT ADDED A STRUCTURAL PAVEMENT OVERLAY ON MAIER PLACE IN A SEPARATE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF MAIER PLACE FOR THE DURATION OF CONSTRUCTION.
  19. CONSTRUCTION CONTRACTOR EMPLOYEE VEHICLES, CONSTRUCTION EQUIPMENT, AND CONSTRUCTION RELATED VEHICLES SHALL UTILIZE MAIER PLACE TO ACCESS THE WORK AREA. CONSTRUCTION CONTRACTOR EMPLOYEES CAN PARK WITHIN THE DESIGNATED CONSTRUCTION AREA OF THE SAMP BUT WILL NOT BE PERMITTED TO PARK IN PARKING LOTS ESTABLISHED FOR PARK USERS.
  20. THE LSB AND LSB DETOUR WILL NOT BE USED FOR ACCESS TO THE WORK AREA, EXCEPT AT THE DESIGNATED CROSSINGS WITHIN EACH PHASE.
  21. LED LIGHTING FIXTURES SHALL BE INSTALLED FOR THE LSB AND LSB DETOUR BENEATH THE I-70/I-71 BRIDGES. THESE LIGHTS WILL BE POWERED FROM AN ODOT CIRCUIT WITH AN ACCESSIBLE DISCONNECT. LIGHTING FIXTURE MAINTENANCE WILL BE THE RESPONSIBILITY OF THE CITY OF COLUMBUS. SEE LIGHTING PLANS ON SHEET 1185.
  22. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FULLY RESTORE ANY LAND DISTURBED BY CONSTRUCTION ACTIVITIES.

**ITEM 607 - FENCE, TYPE CL, AS PER PLAN**

TEMPORARY CHAIN LINK CONSTRUCTION FENCING WILL BE INSTALLED ALONG THE CONSTRUCTION LIMITS OF THE CONSTRUCTION AREA ADJACENT TO THE LOWER SCIOTO BIKEWAY, LOWER SCIOTO BIKEWAY DETOUR, SCIOTO AUDUBON METRO PARK AND DODGE PARK. REMOVAL OF THE TEMPORARY FENCE UPON COMPLETION OF CONSTRUCTION ACTIVITY SHALL BE INCLUDED IN THE CONTRACT PRICE BID.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED:

ITEM 607 - FENCE, TYPE CL, AS PER PLAN 2000 FT

**METRO PARK/WHITTIER PENINSULA VAP**

THE TEMPORARY PARCEL 3 ON WHITTIER PENINSULA HAS BEEN SUBJECT TO AN OEPA VOLUNTARY ACTION PROGRAM (VAP) BY THE OWNER, COLUMBUS AND FRANKLIN COUNTY METRO PARKS AND AS SUCH THE CONTRACTOR'S WORK BELOW SUBGRADE IS GOVERNED BY THE CONDITIONS CONTAINED IN THE NORTHERN TIER COVENANT NOT TO SUE (CNS) (4/22/10, #08NFA308), THE FORMER LAZARUS DISTRIBUTION CNS (6/14/10, #09NFA330) AND THE SOUTHERN TIER CNS (12/30/15, #14NFA592). THE CNS'S CAN BE FOUND WITHIN THE SPECIAL PROVISIONS FOR THE PROJECT.

**EQUIPMENT WITHIN FLOODPLAIN**

IF THE CONSTRUCTION EQUIPMENT WILL NOT BE IN USE FOR THE FOLLOWING TWO CALENDAR DAYS, THIS SHALL DEFINE IDLE EQUIPMENT, AND THE CONTRACTOR SHALL MOVE THE EQUIPMENT ABOVE ELEVATION 717 FEET. THE ONLY EXCEPTION TO THIS IS FOR LARGE CRANES AND DRILLING RIGS. THE CONTRACTOR WILL MONITOR THE FRANK ROAD USGS/CORPS SCIOTO RIVER GAUGE SOUTH OF SR-104. ADDITIONALLY, THE CONTRACTOR SHALL MONITOR FORECASTED WEATHER PRECIPITATION USING WEATHER.COM AND MYRADAR.COM. PER THE EMERGENCY NOTIFICATION PROCESS WITHIN THE EMERGENCY ACTION PLAN (EAP), ODOT WILL BE NOTIFIED BY THE CITY OF COLUMBUS WHEN THE RIVER LEVEL REACHES THE TRIGGER ELEVATIONS LISTED IN THE EAP. THE CONTRACTOR SHALL MOVE ALL EQUIPMENT ABOVE ELEVATION 717 FEET WHEN THESE CONDITIONS ARE MET, OR WHEN EQUIPMENT IS CONSIDERED IDLE, AS DEFINED IN THIS PARAGRAPH.

**PROTECTION OF DOG PARK SOIL CAP**

GEOTEXTILE FABRIC SHALL BE PLACED ON TOP OF EXISTING SOIL PRIOR TO PLACING CONSTRUCTION MATERIALS AND/OR EQUIPMENT WITHIN THE SCIOTO AUDUBON METRO PARK DOG PARK LOCATION. THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR THE PROTECTION OF THE EXISTING SOIL CAP:

ITEM 204 - GEOTEXTILE FABRIC 2000 SY

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QUANTITIES CARRIED TO GENERAL NOTES SUBSUMMARY ON SHEET 69A

| NO. | DESCRIPTION  | REV. BY | DATE       |
|-----|--------------|---------|------------|
| 4   | UPDATED NOTE | CWL     | 11-29-2021 |

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CWL

**GENERAL NOTES**

**FRA -70/ 71-12.68 / 14.86**

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| SHEET NO.                                | 201                                |           | 202                              |           | 202                                |           | 204                                 |           | 208                                           |           | 251                                      |           | SPECIAL                              |           | SPECIAL                               |               | 601                             |           | 607                                    |           | 605                                                     |           | 611                                    |           | 611                                |           | 611                            |           | 611                                                                  |    |    |
|------------------------------------------|------------------------------------|-----------|----------------------------------|-----------|------------------------------------|-----------|-------------------------------------|-----------|-----------------------------------------------|-----------|------------------------------------------|-----------|--------------------------------------|-----------|---------------------------------------|---------------|---------------------------------|-----------|----------------------------------------|-----------|---------------------------------------------------------|-----------|----------------------------------------|-----------|------------------------------------|-----------|--------------------------------|-----------|----------------------------------------------------------------------|----|----|
|                                          | CLEARING AND GRUBBING, AS PER PLAN |           | REMOVAL MISC.: TRASH RECEPTACLES |           | CONCRETE BARRIER REMOVED           |           | GEOTEXTILE FABRIC                   |           | VIBRATION CONTROL AND MONITORING, AS PER PLAN |           | PARTIAL DEPTH PAVEMENT REPAIR (442)      |           | PAVEMENT OVERLAY FABRIC              |           | SAWING AND SEALING CONCRETE JOINTS    |               | TIED CONCRETE BLOCK MAT, TYPE 1 |           | FENCE, TYPE CL, AS PER PLAN            |           | 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |           | CONDUIT, MISC.: SEWER VIDEO INSPECTION |           | 6" CONDUIT, TYPE B                 |           | 6" CONDUIT, TYPE C             |           | CONDUIT, MISC.: BYPASS PUMPING FOR VIDEO INSPECTION AND PIPE REPAIRS |    |    |
|                                          | LS                                 |           | EACH                             |           | FT                                 |           | SY                                  |           | LS                                            |           | SY                                       |           | SY                                   |           | FT                                    |               | SY                              |           | FT                                     |           | FT                                                      |           | FT                                     |           | FT                                 |           | FT                             |           | FT                                                                   | LS |    |
|                                          | 01/NHS/PV                          | 01/NHS/PV | 01/NHS/PV                        |           | 01/NHS/PV                          | 01/NHS/PV | 01/NHS/PV                           | 01/NHS/PV | 01/NHS/PV                                     | 01/NHS/PV |                                          | 01/NHS/PV | 01/NHS/PV                            | 01/NHS/PV | 01/NHS/PV                             | 05/NHS/OT/COL | 01/NHS/PV                       | 01/NHS/PV | 01/NHS/PV                              | 01/NHS/PV | 01/NHS/PV                                               | 01/NHS/PV | 01/NHS/PV                              | 01/NHS/PV | 01/NHS/PV                          | 01/NHS/PV | 01/NHS/PV                      | 01/NHS/PV | 01/NHS/PV                                                            |    |    |
| 53                                       | LS                                 | LS        |                                  |           |                                    |           |                                     |           |                                               |           |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 54                                       |                                    |           | 4                                |           |                                    |           |                                     |           |                                               |           |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 55                                       |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           | 500                                      |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 56                                       |                                    |           |                                  |           | 119                                | 151       |                                     |           |                                               |           |                                          |           |                                      | 102       | 129                                   |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 61                                       |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 63                                       |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           |                                          |           |                                      |           |                                       |               | 4                               | 4         |                                        |           |                                                         | 88        | 112                                    |           |                                    | 22        | 28                             | 22        | 28                                                                   |    |    |
| 66A                                      |                                    |           |                                  |           |                                    |           |                                     |           | LS                                            | LS        |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 67                                       |                                    |           |                                  |           |                                    |           | 880                                 | 1120      |                                               |           |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           | 880                                                     | 1120      |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 69                                       |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      | LS |    |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> | LS                                 | LS        | 4                                |           | 119                                | 151       | 880                                 | 1120      | LS                                            | LS        |                                          |           |                                      | 500       |                                       | 102           | 129                             | 368       | 44                                     | 4         | 4                                                       | 880       | 1120                                   | 88        | 112                                | 3300      | 22                             | 28        | 22                                                                   | 28 | LS |
| SHEET NO.                                | 611                                |           | 611                              |           | 611                                |           | 611                                 |           | SPECIAL                                       |           | 622                                      |           | 623                                  |           | 638                                   |               | SPECIAL                         |           | SPECIAL                                |           | SPECIAL                                                 |           | SPECIAL                                |           | SPECIAL                            |           | SPECIAL                        |           |                                                                      |    |    |
|                                          | 6" CONDUIT, TYPE E                 |           | 6" CONDUIT, TYPE F               |           | PRECAST REINFORCED CONCRETE OUTLET |           | CONDUIT, MISC.: INTERNAL JOINT SEAL |           | MISCELLANEOUS METAL                           |           | BARRIER, MISC.: CONCRETE BARRIER, TYPE B |           | PROVIDING ELECTRONIC INSTRUMENTATION |           | WATER WORK, MISC.: SURVEY COORDINATES |               | SURVEY CONTROL VERIFICATION     |           | WORK INVOLVING NON-REGULATED MATERIALS |           | WORK INVOLVING HAZARDOUS WASTE                          |           | WORK INVOLVING SOLID WASTE             |           | WORK INVOLVING NON-REGULATED WATER |           | WORK INVOLVING REGULATED WATER |           |                                                                      |    |    |
|                                          | FT                                 |           | FT                               |           | EACH                               |           | EACH                                |           | LB                                            |           | FT                                       |           | LS                                   |           | LS                                    |               | TON                             |           | TON                                    |           | TON                                                     |           | GAL                                    |           | GAL                                |           |                                |           |                                                                      |    |    |
|                                          | 01/NHS/PV                          | 01/NHS/PV | 01/NHS/PV                        | 01/NHS/PV | 01/NHS/PV                          | 01/NHS/PV | 01/NHS/PV                           | 01/NHS/PV | 01/NHS/PV                                     | 01/NHS/PV | 01/NHS/PV                                | 01/NHS/PV | 01/NHS/PV                            | 01/NHS/PV | 01/NHS/PV                             | 01/NHS/PV     | 01/NHS/PV                       | 01/NHS/PV | 01/NHS/PV                              | 01/NHS/PV | 01/NHS/PV                                               | 01/NHS/PV | 01/NHS/PV                              | 01/NHS/PV | 01/NHS/PV                          | 01/NHS/PV | 01/NHS/PV                      | 01/NHS/PV | 01/NHS/PV                                                            |    |    |
| 54                                       |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 56                                       |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           | 106                                      | 134       |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 58                                       |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           |                                          |           | LS                                   | LS        |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 63                                       | 22                                 | 28        | 110                              | 140       | 2                                  | 2         | 26                                  | 34        | 440                                           | 560       |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 66A                                      |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           |                                          |           |                                      |           |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| 68                                       |                                    |           |                                  |           |                                    |           |                                     |           |                                               |           |                                          |           |                                      | LS        |                                       |               |                                 |           |                                        |           |                                                         |           |                                        |           |                                    |           |                                |           |                                                                      |    |    |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> | 22                                 | 28        | 110                              | 140       | 2                                  | 2         | 26                                  | 34        | 440                                           | 560       | 106                                      | 134       | LS                                   | LS        | LS                                    |               | LS                              | LS        | 440                                    | 560       | 44                                                      | 56        | 220                                    | 280       | 4840                               | 6160      | 4840                           | 6160      |                                                                      |    |    |

| NO. | DESCRIPTION            | REV. | BY  | DATE       |
|-----|------------------------|------|-----|------------|
| 1   | ADDED LIBERTY RMP NOTE |      | CWL | 11-4-2021  |
| 3   | UPDATED BYPASS NOTE    |      | CWL | 11-19-2021 |
| 4   | FUNDING CODE CHANGE    |      | CWL | 11-29-2021 |

CALCULATED CJC CHECKED CWL  
**GENERAL NOTES SUBSUMMARY**  
**FRA - 70 / 71-12.68 / 14.86**  
 69A  
 1815

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| SHEET NO.                                | 661                                                                  |               | 661                                                                          |               | 661                                                                           |               | 661                                                                            |               | 661                                                                               |               | 661                                                                                    |                |   |   |   |   |   |   |   |   |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------|----------------------------------------------------------------------|---------------|------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------|----------------|---|---|---|---|---|---|---|---|---|----|---|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                                          | DECIDUOUS TREE, 2" CALIPER, AS PER PLAN, CERCIS CANADENSIS - RED BUD |               | DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, CELTIS OCCIDENTALIS - HACKBERRY |               | DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, PLATANUS OCCIDENTALIS - SYCAMORE |               | DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, QUERCUS BICOLOR - SWAMP WHITE OAK |               | PLANTING, MISC.: DECIDUOUS SHRUB, 24" - 36" HEIGHT, VIBURNUM DENTATUM - ARROWWOOD |               | PLANTING, MISC.: DECIDUOUS SHRUB, 24" - 36" HEIGHT, PHYSOCARPUS OPULIFOLIUS - NINEBARK |                |   |   |   |   |   |   |   |   |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          | EACH                                                                 |               | EACH                                                                         |               | EACH                                                                          |               | EACH                                                                           |               | EACH                                                                              |               | EACH                                                                                   |                |   |   |   |   |   |   |   |   |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          | 01/NHS/P<br>V                                                        | 01/NHS/P<br>V | 01/NHS/P<br>V                                                                | 01/NHS/P<br>V | 01/NHS/P<br>V                                                                 | 01/NHS/P<br>V | 01/NHS/P<br>V                                                                  | 01/NHS/P<br>V | 01/NHS/P<br>V                                                                     | 01/NHS/P<br>V | 01/NHS/P<br>PV                                                                         | 01/NHS/P<br>PV |   |   |   |   |   |   |   |   |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66                                       | 2                                                                    | 3             | 4                                                                            | 4             | 5                                                                             | 7             | 2                                                                              | 3             | 9                                                                                 | 11            | 9                                                                                      | 11             |   |   |   |   |   |   |   |   |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                                                                      |               |                                                                              |               |                                                                               |               |                                                                                |               |                                                                                   |               |                                                                                        |                | 2 | 3 | 4 | 4 | 5 | 7 | 2 | 3 | 9 | 11 | 9 | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SHEET NO.                                |                                                                      |               |                                                                              |               |                                                                               |               |                                                                                |               |                                                                                   |               |                                                                                        |                |   |   |   |   |   |   |   |   |   |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| NO. | DESCRIPTION         | REV. | BY  | DATE       |
|-----|---------------------|------|-----|------------|
| 4   | FUNDING CODE CHANGE |      | CWL | 11-29-2021 |

**TOTALS CARRIED TO GENERAL SUMMARY**

CALCULATED CJC  
 CHECKED CWL  
**GENERAL NOTES SUBSUMMARY**  
 FRA - 70 / 71 - 12.68 / 14.86  
 69B  
 1815

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| ITEM | EXTENSION | FUNDING SPLIT |           | TOTAL  | UNIT | DESCRIPTION                                                                | SEE SHEET |
|------|-----------|---------------|-----------|--------|------|----------------------------------------------------------------------------|-----------|
|      |           | 01/NHS/PV     | 01/NHS/PV |        |      |                                                                            |           |
| 410  | 12000     |               |           | 200    | CY   | TRAFFIC COMPACTED SURFACE, TYPE A OR B                                     | 70        |
| 503  | 11100     |               |           | LS     |      | COFFERDAMS AND EXCAVATION BRACING                                          |           |
| 607  | 30001     | 440           | 560       | 1000   | FT   | FENCE, SNOW, AS PER PLAN                                                   |           |
| 611  | 05900     | 2             | 2         | 4      | FT   | 15" CONDUIT, TYPE B                                                        |           |
| 611  | 07400     | 55            | 71        | 126    | FT   | 18" CONDUIT, TYPE B                                                        |           |
| 611  | 98700     | 0             | 1         | 1      | EACH | INLET, SIDE DITCH                                                          |           |
| 611  | 99114     | 0             | 1         | 1      | EACH | INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D                              |           |
| 611  | 99500     | 2             | 2         | 4      | EACH | INLET, MISC.: LOCAL DEPRESSION REMOVE FROM INLET                           |           |
| 611  | 99500     | 0             | 1         | 1      | EACH | INLET, MISC.: INLET, CAPPED BELOW GRADE                                    | 78        |
| 611  | 99574     | 0             | 1         | 1      | EACH | MANHOLE, NO. 3                                                             |           |
| 611  | 99910     | 316           | 402       | 718    | FT   | DRAINAGE STRUCTURE, MISC.: LONGITUDINAL TRENCH DRAIN FOR MOT               | 78        |
| 614  | 11000     |               |           | LS     |      | MAINTAINING TRAFFIC                                                        | 70        |
| 614  | 11110     | 1980          | 2520      | 4500   | hour | LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE                     | 73        |
| 614  | 11630     | 16786         | 21364     | 38150  | FT   | INCREASED BARRIER DELINEATION                                              | 74        |
| 614  | 12380     | 14            | 17        | 31     | EACH | WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)            | 73        |
| 614  | 12420     |               |           | LS     |      | DETOUR SIGNING                                                             | 75        |
| 614  | 12484     | 2.64          | 3.36      | 6      | EACH | WORK ZONE INCREASED PENALTIES SIGN                                         | 75        |
| 614  | 12500     | 22            | 28        | 50     | EACH | REPLACEMENT SIGN                                                           | 74        |
| 614  | 12600     | 132           | 168       | 300    | EACH | REPLACEMENT DRUM                                                           | 74        |
| 614  | 12801     | 443           | 563       | 1006   | EACH | WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN                              | 70        |
| 614  | 13310     | 350           | 446       | 796    | EACH | BARRIER REFLECTOR, TYPE 1, ONE-WAY                                         | 74        |
| 614  | 13312     | 7             | 9         | 16     | EACH | BARRIER REFLECTOR, TYPE 2, ONE-WAY                                         | 76        |
| 614  | 13350     | 356           | 454       | 810    | EACH | OBJECT MARKER, ONE WAY                                                     | 74 / 76   |
| 614  | 18000     | 66000         | 84000     | 150000 | EACH | MAINTAINING TRAFFIC, MISC.: BRIDGE DECK AND PAVEMENT PATCHING              | 77        |
| 614  | 18030     | 440           | 560       | 1000   | FT   | MAINTAINING TRAFFIC, MISC.: CONSTRUCTION FENCE                             | 77        |
| 614  | 18601     | 112           | 142       | 254    | SNMT | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN                              | 74        |
| 614  | 20011     | 0.96          | 1.23      | 2.19   | MILE | WORK ZONE LANE LINE, CLASS I, 6" SPRAY THERMOPLASTIC, AS PER PLAN          | 74        |
| 614  | 20056     | 2.55          | 3.24      | 5.79   | MILE | WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT                                |           |
| 614  | 21001     | 0.01          | 0.02      | 0.03   | MILE | WORK ZONE CENTER LINE, CLASS I SPRAY THERMOPLASTIC, AS PER PLAN            | 74        |
| 614  | 21050     | 0.26          | 0.33      | 0.59   | MILE | WORK ZONE CENTER LINE, CLASS I, 807 PAINT                                  |           |
| 614  | 22010     | 0.29          | 0.37      | 0.66   | MILE | WORK ZONE CENTER LINE, CLASS I, 642 PAINT                                  |           |
| 614  | 22011     | 2.24          | 2.85      | 5.09   | MILE | WORK ZONE EDGE LINE, CLASS I, 6" SPRAY THERMOPLASTIC, AS PER PLAN          | 74        |
| 614  | 22056     | 6.53          | 8.31      | 14.84  | MILE | WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT                                |           |
| 614  | 23011     | 0.34          | 0.43      |        | MILE | WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT                                |           |
| 614  | 23011     | 4319          | 5498      | 9817   | FT   | WORK ZONE CHANNELIZING LINE, CLASS I, 12" SPRAY THERMOPLASTIC, AS PER PLAN | 74        |
| 614  | 23100     | 11612         | 14780     | 26392  | FT   | WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT                       |           |
| 614  | 24001     | 93            | 119       | 212    | FT   | WORK ZONE DOTTED LINE, CLASS I SPRAY THERMOPLASTIC, AS PER PLAN            | 74        |
| 614  | 24100     | 3572          | 4546      | 8118   | FT   | WORK ZONE DOTTED LINE, CLASS I, 4", 807 PAINT                              |           |
| 614  | 24200     | 474           | 603       | 1077   | FT   | WORK ZONE DOTTED LINE, CLASS I, 642 PAINT                                  |           |
| 614  | 25200     | 525           | 669       | 1194   | FT   | WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT                     |           |
| 614  | 26200     | 27            | 34        | 61     | FT   | WORK ZONE STOP LINE, CLASS I, 642 PAINT                                    |           |
| 614  | 30200     | 8             | 10        | 18     | EACH | WORK ZONE ARROW, CLASS I, 642 PAINT                                        |           |
| 614  | 40000     | 191           | 244       | 435    | FT   | LONGITUDINAL CHANNELIZER                                                   | 76        |
| 615  | 10000     |               |           | LS     |      | ROADS FOR MAINTAINING TRAFFIC                                              |           |
| 615  | 25000     | 2145          | 2729      | 4874   | SY   | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B                                  |           |
| 615  | 25001     | 44            | 56        | 100    | SY   | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 1             | 77        |
| 615  | 25001     | 22            | 28        | 50     | SY   | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 2             | 77        |
| 615  | 25001     | 9             | 11        | 20     | SY   | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 3             | 77        |
| 615  | 25001     | 9             | 11        | 20     | SY   | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 4             | 77        |
| 615  | 20001     | 2958          | 3765      | 6723   | SY   | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN                     | 70        |
| 616  | 10000     | 601           | 764       | 1365   | MGAL | WATER                                                                      | 74        |
| 622  | 41100     | 14102         | 17948     | 32050  |      | PORTABLE BARRIER, UNANCHORED                                               |           |
| 622  | 41110     | 97            | 123       | 220    |      | PORTABLE BARRIER, ANCHORED                                                 |           |
| 622  | 41050     | 1             | 2         | 3      | EACH | PORTABLE BARRIER, "Y" CONNECTOR                                            |           |
| 808  | 18700     | 55            | 69        | 124    | SNMT | DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY                                    | 75        |
| 896  | 00010     | 82            | 104       | 186    | SNMT | PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I                             | 77        |
| 896  | 00021     | 27            | 35        | 62     | SNMT | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN                              | 77        |

| NO. | DESCRIPTION          | REV. BY | DATE       |
|-----|----------------------|---------|------------|
| 4   | FUNDING SPLIT CHANGE | EMW     | 11-29-2021 |

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 MAINTENANCE OF TRAFFIC GENERAL SUMMARY  
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| SHEET NUMBER |      |  |       |  |  |  | PARTICIPATION |           |           |               |               | ITEM | ITEM EXT. | GRAND TOTAL | UNIT                | DESCRIPTION | SEE SHEET NO.                                                     |     |
|--------------|------|--|-------|--|--|--|---------------|-----------|-----------|---------------|---------------|------|-----------|-------------|---------------------|-------------|-------------------------------------------------------------------|-----|
| OFFICE CALCS | 69A  |  | 220   |  |  |  | 01/NHS/PV     | 01/NHS/PV | 04/MPO/OT | 05/NHS/OT/COL | 06/ENH/OT/COL |      |           |             |                     |             |                                                                   |     |
|              |      |  |       |  |  |  |               |           |           |               |               |      |           |             | ROADWAY (CONTINUED) |             |                                                                   |     |
|              | 2000 |  |       |  |  |  | 880           | 1120      |           |               |               |      | 607       | 20001       | 2000                | FT          | FENCE, TYPE CL, AS PER PLAN                                       | 67  |
|              |      |  | 481   |  |  |  | 212           | 269       |           |               |               |      | 607       | 23000       | 481                 | FT          | FENCE, TYPE CLT                                                   |     |
|              |      |  | 554   |  |  |  | 244           | 310       |           |               |               |      | 607       | 23001       | 554                 | FT          | FENCE, TYPE CLT, AS PER PLAN "A"                                  | 53  |
|              |      |  | 736   |  |  |  | 324           | 412       |           |               |               |      | 607       | 23001       | 736                 | FT          | FENCE, TYPE CLT, AS PER PLAN "B"                                  | 58  |
|              |      |  | 88    |  |  |  | 18            | 23        |           | 47            |               |      | 607       | 35000       | 88                  | FT          | FENCE REMOVED AND REBUILT                                         |     |
|              |      |  | 739   |  |  |  | 325           | 414       |           |               |               |      | 607       | 39994       | 739                 | FT          | TEMPORARY VANDAL FENCE, TYPE B                                    |     |
|              |      |  | 1     |  |  |  | 1             | 1         |           |               |               |      | 607       | 61201       | 1                   | EACH        | GATE, TYPE CLT, AS PER PLAN "A"                                   | 53  |
|              |      |  | 2     |  |  |  | 1             | 1         |           |               |               |      | 607       | 61201       | 2                   | EACH        | GATE, TYPE CLT, AS PER PLAN "B"                                   | 58  |
|              |      |  | 888   |  |  |  | 391           | 497       |           |               |               |      | 607       | 70000       | 888                 | FT          | FENCELINE SEEDING AND MULCHING                                    |     |
|              |      |  | 20627 |  |  |  | 12922         |           | 189       | 7516          |               |      | 608       | 10000       | 20627               | SF          | 4" CONCRETE WALK                                                  |     |
| 200          |      |  | 1646  |  |  |  | 1296          | 112       | 69        | 369           |               |      | 608       | 15000       | 1846                | SF          | 8" CONCRETE WALK                                                  |     |
|              |      |  | 14    |  |  |  | 14            |           |           |               |               |      | 608       | 41001       | 14                  | FT          | CONCRETE STEPS, TYPE B, AS PER PLAN                               | 57  |
|              | 5044 |  |       |  |  |  |               |           |           | 5044          |               |      | 608       | 98000       | 5044                | SF          | WALKWAY, MISC.: BRICK PAVER CROSSWALK                             | 579 |
|              |      |  | 2774  |  |  |  |               |           | 591       |               | 2183          |      | 608       | 98000       | 2774                | SF          | WALKWAY, MISC.: BRICK PAVER WALK                                  | 578 |
|              | 1752 |  |       |  |  |  | 771           | 981       |           |               |               |      | 608       | 98000       | 1752                | SF          | WALKWAY, MISC.: 6" X 6" CONCRETE PAVERS                           | 582 |
|              | 41   |  |       |  |  |  | 18            | 23        |           |               |               |      | 608       | 98000       | 41                  | SF          | WALKWAY, MISC.: COLUMBUS DETECTABLE WARNING, TYPE A               | 58  |
|              |      |  | 16    |  |  |  | 16            |           |           |               |               |      | 608       | 98200       | 16                  | EACH        | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE A                        | 57  |
|              |      |  | 1     |  |  |  | 1             |           |           |               |               |      | 608       | 98200       | 1                   | EACH        | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE P-7                      | 57  |
|              |      |  | 1     |  |  |  | 1             |           |           |               |               |      | 608       | 98200       | 1                   | EACH        | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE P-4 MODIFIED             | 57  |
|              | 117  |  |       |  |  |  | 70            | 47        |           |               |               |      | 622       | 10060       | 117                 | FT          | CONCRETE BARRIER, SINGLE SLOPE, TYPE B                            |     |
|              | 80   |  |       |  |  |  | 48            | 32        |           |               |               |      | 622       | 10140       | 80                  | FT          | CONCRETE BARRIER, SINGLE SLOPE, TYPE C1                           |     |
|              | 1267 |  |       |  |  |  | 739           | 528       |           |               |               |      | 622       | 10160       | 1267                | FT          | CONCRETE BARRIER, SINGLE SLOPE, TYPE D                            |     |
|              | 388  |  |       |  |  |  | 194           | 194       |           |               |               |      | 622       | 10161       | 388                 | FT          | CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN               | 57  |
|              | 2    |  |       |  |  |  | 1             | 1         |           |               |               |      | 622       | 10200       | 2                   | EACH        | BARRIER TRANSITION                                                | 644 |
|              | 11   |  |       |  |  |  | 5             | 6         |           |               |               |      | 622       | 25000       | 11                  | EACH        | CONCRETE BARRIER END SECTION, TYPE D                              |     |
|              | 1    |  |       |  |  |  |               | 1         |           |               |               |      | 622       | 25001       | 1                   | EACH        | CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN "A"             | 57  |
|              | 1    |  |       |  |  |  |               | 1         |           |               |               |      | 622       | 25001       | 1                   | EACH        | CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN "B"             | 57  |
|              | 4    |  |       |  |  |  | 2             | 2         |           |               |               |      | 622       | 25004       | 4                   | EACH        | CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B               |     |
|              | 2    |  |       |  |  |  | 1             | 1         |           |               |               |      | 622       | 25015       | 2                   | EACH        | CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN | 58  |
|              | 25   |  |       |  |  |  | 13            | 12        |           |               |               |      | 622       | 25050       | 25                  | EACH        | CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D               |     |
|              | 1    |  |       |  |  |  |               | 1         |           |               |               |      | 622       | 25051       | 1                   | EACH        | CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN  | 58  |
|              |      |  | 1542  |  |  |  | 839           | 703       |           |               |               |      | 622       | 41101       | 1542                | FT          | PORTABLE BARRIER, UNANCHORED, AS PER PLAN                         | 57  |
|              |      |  | 1811  |  |  |  | 661           | 1150      |           |               |               |      | 622       | 41111       | 1811                | FT          | PORTABLE BARRIER, ANCHORED, AS PER PLAN                           | 57  |
|              | 240  |  |       |  |  |  | 106           | 134       |           |               |               |      | 622       | 90000       | 240                 | FT          | BARRIER, MISC.: CONCRETE BARRIER, TYPE B                          | 57  |
| 80           |      |  |       |  |  |  | 48            | 32        |           |               |               |      | 622       | 90000       | 80                  | FT          | BARRIER, MISC.: CONCRETE BARRIER, TYPE B50                        | 57  |
|              | LS   |  |       |  |  |  | LS            | LS        |           |               |               |      | 623       | 11000       | LS                  |             | PROVIDING ELECTRONIC INSTRUMENTATION                              | 58  |
|              | LS   |  |       |  |  |  | LS            | LS        |           |               |               |      | SPECIAL   | 69098400    | LS                  |             | SURVEY CONTROL VERIFICATION                                       | 54  |
|              | LS   |  |       |  |  |  | LS            | LS        |           |               |               |      | 878       | 25000       | LS                  |             | INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS            |     |

GENERAL SUMMARY

FRA - 70 / 71 - 12.68 / 14.86

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| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-23-2021 |

| SHEET NUMBER                |       |  |         |  |       |  | PARTICIPATION |           |  |  |  |  |         | ITEM     | ITEM EXT. | GRAND TOTAL | UNIT                                                 | DESCRIPTION | SEE SHEET NO. |
|-----------------------------|-------|--|---------|--|-------|--|---------------|-----------|--|--|--|--|---------|----------|-----------|-------------|------------------------------------------------------|-------------|---------------|
| OFFICE CALCS                | 69A   |  | 221     |  | 229   |  | 01/NHS/PV     | 01/NHS/PV |  |  |  |  |         |          |           |             |                                                      |             |               |
| EROSION CONTROL             |       |  |         |  |       |  |               |           |  |  |  |  |         |          |           |             |                                                      |             |               |
| 315                         |       |  |         |  |       |  | 139           | 176       |  |  |  |  | 601     | 12001    | 315       | SY          | RIPRAP, WITH GROUT, AS PER PLAN                      | 582         |               |
|                             |       |  | 1127    |  |       |  | 496           | 631       |  |  |  |  | 601     | 21000    | 1127      | SY          | CONCRETE SLOPE PROTECTION                            |             |               |
|                             | 8     |  | 223     |  |       |  | 102           | 129       |  |  |  |  | 601     | 21050    | 231       | SY          | TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT     |             |               |
|                             |       |  | 243     |  |       |  | 107           | 136       |  |  |  |  | 601     | 21060    | 243       | SY          | TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT     |             |               |
|                             |       |  | 6       |  |       |  | 3             | 3         |  |  |  |  | 601     | 32200    | 6         | CY          | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER          |             |               |
|                             |       |  | 571     |  |       |  | 251           | 320       |  |  |  |  | 601     | 37501    | 571       | FT          | PAVED GUTTER, TYPE 1-2, AS PER PLAN                  | 65          |               |
|                             |       |  |         |  | 2     |  | 1             | 1         |  |  |  |  | 659     | 00100    | 2         | EACH        | SOIL ANALYSIS TEST                                   |             |               |
|                             |       |  |         |  | 6130  |  | 2697          | 3433      |  |  |  |  | 659     | 00300    | 6130      | CY          | TOPSOIL                                              |             |               |
|                             |       |  |         |  | 55225 |  | 24299         | 30926     |  |  |  |  | 659     | 10000    | 55225     | SY          | SEEDING AND MULCHING                                 |             |               |
|                             |       |  |         |  | 2761  |  | 1215          | 1546      |  |  |  |  | 659     | 14000    | 2761      | SY          | REPAIR SEEDING AND MULCHING                          |             |               |
|                             |       |  |         |  | 2761  |  | 1215          | 1546      |  |  |  |  | 659     | 15000    | 2761      | SY          | INTER-SEEDING                                        |             |               |
|                             |       |  |         |  | 7.70  |  | 3.39          | 4.31      |  |  |  |  | 659     | 20000    | 7.70      | TON         | COMMERCIAL FERTILIZER                                |             |               |
|                             |       |  |         |  | 11.41 |  | 5.02          | 6.39      |  |  |  |  | 659     | 31000    | 11.41     | ACRE        | LIME                                                 |             |               |
|                             |       |  |         |  | 306   |  | 135           | 171       |  |  |  |  | 659     | 35000    | 306       | MGAL        | WATER                                                |             |               |
|                             |       |  | 95      |  |       |  | 42            | 53        |  |  |  |  | 660     | 30000    | 95        | SY          | SODDING UNSTAKED                                     |             |               |
|                             |       |  | 2313    |  |       |  | 1018          | 1295      |  |  |  |  | 670     | 00700    | 2313      | SY          | DITCH EROSION PROTECTION                             |             |               |
|                             |       |  | LS      |  |       |  | LS            | LS        |  |  |  |  | 832     | 15000    | LS        |             | STORM WATER POLLUTION PREVENTION PLAN                |             |               |
|                             |       |  | LS      |  |       |  | LS            | LS        |  |  |  |  | 832     | 15002    | LS        |             | STORM WATER POLLUTION PREVENTION INSPECTIONS         |             |               |
|                             |       |  | LS      |  |       |  | LS            | LS        |  |  |  |  | 832     | 15010    | LS        |             | STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE |             |               |
|                             |       |  | 1150000 |  |       |  | 506000        | 644000    |  |  |  |  | 832     | 30000    | 1150000   | EACH        | EROSION CONTROL                                      |             |               |
| ENVIRONMENTAL / REMEDIATION |       |  |         |  |       |  |               |           |  |  |  |  |         |          |           |             |                                                      |             |               |
|                             | 1000  |  |         |  |       |  | 440           | 560       |  |  |  |  | SPECIAL | 69065000 | 1000      | TON         | WORK INVOLVING NON-REGULATED MATERIALS               | 66A         |               |
|                             | 100   |  |         |  |       |  | 44            | 56        |  |  |  |  | SPECIAL | 69065002 | 100       | TON         | WORK INVOLVING HAZARDOUS WASTE                       | 66A         |               |
|                             | 500   |  |         |  |       |  | 220           | 280       |  |  |  |  | SPECIAL | 69065010 | 500       | TON         | WORK INVOLVING SOLID WASTE                           | 66A         |               |
|                             | 11000 |  |         |  |       |  | 4840          | 6160      |  |  |  |  | SPECIAL | 69065022 | 11000     | GAL         | WORK INVOLVING NON-REGULATED WATER                   | 66A         |               |
|                             | 11000 |  |         |  |       |  | 4840          | 6160      |  |  |  |  | SPECIAL | 69065024 | 11000     | GAL         | WORK INVOLVING REGULATED WATER                       | 66A         |               |

**GENERAL SUMMARY**

**FRA - 70 / 71 - 12.68 / 14.86**

| NO. | DESCRIPTION                             | REV. BY | DATE       |
|-----|-----------------------------------------|---------|------------|
| 1   | ADDED LIBERTY RMP NOTE                  | CWL     | 11-4-2021  |
| 4   | FUNDING CODE CHANGE / UPDATED EARTHWORK | CWL     | 11-29-2021 |

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| SHEET NUMBER |  |       |     |  |  |  | PARTICIPATION |           |  |               |  | ITEM | ITEM EXT. | GRAND TOTAL | UNIT | DESCRIPTION                                                                                | SEE SHEET NO. | CALCULATED ATR | CHECKED CWL |
|--------------|--|-------|-----|--|--|--|---------------|-----------|--|---------------|--|------|-----------|-------------|------|--------------------------------------------------------------------------------------------|---------------|----------------|-------------|
| 69A          |  | 222   | 223 |  |  |  | 01/NHS/PV     | 01/NHS/PV |  | 05/NHS/OT/COL |  |      |           |             |      |                                                                                            |               |                |             |
|              |  | 2.0   |     |  |  |  | 0.9           | 1.1       |  |               |  | 602  | 20000     | 2.0         | CY   | DRAINAGE<br>CONCRETE MASONRY                                                               |               |                |             |
|              |  | 52    |     |  |  |  | 43            |           |  | 9             |  | 605  | 05200     | 52          | FT   | 4" UNCLASSIFIED PIPE UNDERDRAINS                                                           |               |                |             |
|              |  | 1995  |     |  |  |  | 1684          |           |  | 311           |  | 605  | 06000     | 1995        | FT   | 4" BASE PIPE UNDERDRAINS                                                                   |               |                |             |
|              |  | 13967 |     |  |  |  | 6146          | 7821      |  |               |  | 605  | 11110     | 13967       | FT   | 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC                                         |               |                |             |
|              |  | 12    |     |  |  |  |               |           |  | 12            |  | 605  | 13300     | 12          | FT   | 6" UNCLASSIFIED PIPE UNDERDRAINS                                                           |               |                |             |
| 200          |  | 1184  |     |  |  |  | 611           | 773       |  |               |  | 605  | 13410     | 1384        | FT   | 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC                                    |               |                |             |
|              |  | 345   |     |  |  |  |               |           |  | 345           |  | 605  | 14000     | 345         | FT   | 6" BASE PIPE UNDERDRAINS                                                                   |               |                |             |
|              |  | 25281 |     |  |  |  | 11136         | 14145     |  |               |  | 605  | 14020     | 25281       | FT   | 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC                                            |               |                |             |
|              |  | 22    |     |  |  |  | 22            |           |  |               |  | 611  | 00100     | 22          | FT   | 4" CONDUIT, TYPE B                                                                         |               |                |             |
|              |  | 183   |     |  |  |  | 163           |           |  | 20            |  | 611  | 00410     | 183         | FT   | 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET                                                   |               |                |             |
|              |  | 645   |     |  |  |  | 285           | 360       |  |               |  | 611  | 00510     | 645         | FT   | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS                                                  |               |                |             |
| 50           |  | 675   |     |  |  |  | 319           | 406       |  |               |  | 611  | 00900     | 725         | FT   | 6" CONDUIT, TYPE B                                                                         |               |                |             |
| 50           |  |       |     |  |  |  | 22            | 28        |  |               |  | 611  | 01100     | 50          | FT   | 6" CONDUIT, TYPE C                                                                         |               |                |             |
| 50           |  |       |     |  |  |  | 22            | 28        |  |               |  | 611  | 01400     | 50          | FT   | 6" CONDUIT, TYPE E                                                                         |               |                |             |
| 250          |  |       |     |  |  |  | 110           | 140       |  |               |  | 611  | 01500     | 250         | FT   | 6" CONDUIT, TYPE F                                                                         |               |                |             |
|              |  | 87    |     |  |  |  | 38            | 49        |  |               |  | 611  | 04400     | 87          | FT   | 12" CONDUIT, TYPE B                                                                        |               |                |             |
|              |  | 16    |     |  |  |  | 7             | 9         |  |               |  | 611  | 04400     | 16          | FT   | 12" CONDUIT, TYPE B, 706.02                                                                |               |                |             |
|              |  | 100   |     |  |  |  | 44            | 56        |  |               |  | 611  | 04600     | 100         | FT   | 12" CONDUIT, TYPE C                                                                        |               |                |             |
|              |  | 2322  |     |  |  |  | 1022          | 1300      |  |               |  | 611  | 05900     | 2322        | FT   | 15" CONDUIT, TYPE B                                                                        |               |                |             |
|              |  | 34    |     |  |  |  | 15            | 19        |  |               |  | 611  | 05900     | 34          | FT   | 15" CONDUIT, TYPE B, 706.02                                                                |               |                |             |
|              |  | 639   |     |  |  |  | 281           | 358       |  |               |  | 611  | 05900     | 639         | FT   | 15" CONDUIT, TYPE B, 706.02 WITH 706.11 JOINTS                                             |               |                |             |
|              |  | 601   |     |  |  |  | 264           | 337       |  |               |  | 611  | 05901     | 601         | FT   | 15" CONDUIT, TYPE B, AS PER PLAN                                                           |               |                | 64          |
|              |  | 1760  |     |  |  |  | 775           | 985       |  |               |  | 611  | 06100     | 1760        | FT   | 15" CONDUIT, TYPE C                                                                        |               |                |             |
|              |  | 284   |     |  |  |  | 125           | 159       |  |               |  | 611  | 06100     | 284         | FT   | 15" CONDUIT, TYPE C, 706.02 WITH 706.11 JOINTS                                             |               |                |             |
|              |  | 37    |     |  |  |  | 17            | 20        |  |               |  | 611  | 06101     | 37          | FT   | 15" CONDUIT, TYPE C, AS PER PLAN                                                           |               |                | 64          |
|              |  | 992   |     |  |  |  | 437           | 555       |  |               |  | 611  | 07400     | 992         | FT   | 18" CONDUIT, TYPE B                                                                        |               |                |             |
|              |  | 12    |     |  |  |  | 5             | 7         |  |               |  | 611  | 07401     | 12          | FT   | 18" CONDUIT, TYPE B, AS PER PLAN, 748.01, CLASS 52                                         |               |                | 64          |
|              |  | 261   |     |  |  |  | 115           | 146       |  |               |  | 611  | 07600     | 261         | FT   | 18" CONDUIT, TYPE C                                                                        |               |                |             |
|              |  | 28    |     |  |  |  | 12            | 16        |  |               |  | 611  | 07601     | 28          | FT   | 18" CONDUIT, TYPE C, AS PER PLAN                                                           |               |                | 64          |
|              |  | 76    |     |  |  |  | 33            | 43        |  |               |  | 611  | 08900     | 76          | FT   | 21" CONDUIT, TYPE B                                                                        |               |                |             |
|              |  | 101   |     |  |  |  | 44            | 57        |  |               |  | 611  | 08900     | 101         | FT   | 21" CONDUIT, TYPE B, 706.02 WITH 706.11 JOINTS                                             |               |                |             |
|              |  | 249   |     |  |  |  | 110           | 139       |  |               |  | 611  | 09100     | 249         | FT   | 21" CONDUIT, TYPE C                                                                        |               |                |             |
|              |  | 335   |     |  |  |  | 148           | 187       |  |               |  | 611  | 10400     | 335         | FT   | 24" CONDUIT, TYPE B                                                                        |               |                |             |
|              |  | 10    |     |  |  |  | 4             | 6         |  |               |  | 611  | 10401     | 10          | FT   | 24" CONDUIT, TYPE B, AS PER PLAN                                                           |               |                | 64          |
|              |  | 312   |     |  |  |  | 138           | 174       |  |               |  | 611  | 10600     | 312         | FT   | 24" CONDUIT, TYPE C                                                                        |               |                |             |
|              |  | 130   |     |  |  |  | 57            | 73        |  |               |  | 611  | 11900     | 130         | FT   | 27" CONDUIT, TYPE B                                                                        |               |                |             |
|              |  | 709   |     |  |  |  | 312           | 397       |  |               |  | 611  | 12100     | 709         | FT   | 27" CONDUIT, TYPE C                                                                        |               |                |             |
|              |  | 531   |     |  |  |  | 233           | 298       |  |               |  | 611  | 13600     | 531         | FT   | 30" CONDUIT, TYPE C                                                                        |               |                |             |
|              |  | 126   |     |  |  |  | 55            | 71        |  |               |  | 611  | 16400     | 126         | FT   | 36" CONDUIT, TYPE B                                                                        |               |                |             |
|              |  | 20    |     |  |  |  | 8             | 12        |  |               |  | 611  | 16400     | 20          | FT   | 36" CONDUIT, TYPE B, 706.02                                                                |               |                |             |
|              |  | 126   |     |  |  |  | 55            | 71        |  |               |  | 611  | 96600     | 126         | FT   | CONDUIT, BORED OR JACKED, 42" TYPE B, 748.06                                               |               |                | 63          |
|              |  | 292   |     |  |  |  | 128           | 164       |  |               |  | 611  | 96601     | 292         | FT   | CONDUIT, BORED OR JACKED, AS PER PLAN, 42" CONDUIT, TYPE C, 748.06 (0.625" WALL THICKNESS) |               |                | 63          |
| 60           |  |       |     |  |  |  | 26            | 34        |  |               |  | 611  | 97200     | 60          | EACH | CONDUIT, MISC.: INTERNAL JOINT SEAL                                                        |               |                | 63          |
|              |  | 12    |     |  |  |  | 5             | 7         |  |               |  | 611  | 98150     | 12          | EACH | CATCH BASIN, NO. 3                                                                         |               |                |             |
|              |  | 15    |     |  |  |  | 7             | 8         |  |               |  | 611  | 98180     | 15          | EACH | CATCH BASIN, NO. 3A                                                                        |               |                |             |
|              |  | 4     |     |  |  |  | 1             | 3         |  |               |  | 611  | 98370     | 4           | EACH | CATCH BASIN, NO. 6                                                                         |               |                |             |
|              |  | 2     |     |  |  |  | 1             | 1         |  |               |  | 611  | 98371     | 2           | EACH | CATCH BASIN, NO. 6, AS PER PLAN                                                            |               |                | 64          |
|              |  | 2     |     |  |  |  | 1             | 1         |  |               |  | 611  | 98390     | 2           | EACH | CATCH BASIN, NO. 7                                                                         |               |                |             |
|              |  | 10    |     |  |  |  | 4             | 6         |  |               |  | 611  | 98410     | 10          | EACH | CATCH BASIN, NO. 8                                                                         |               |                |             |
|              |  | 4     |     |  |  |  | 1             | 3         |  |               |  | 611  | 98411     | 4           | EACH | CATCH BASIN, NO. 8, AS PER PLAN                                                            |               |                | 64          |
|              |  | 9     |     |  |  |  | 3             | 6         |  |               |  | 611  | 98470     | 9           | EACH | CATCH BASIN, NO. 2-2B                                                                      |               |                |             |
|              |  | 1     |     |  |  |  |               | 1         |  |               |  | 611  | 98510     | 1           | EACH | CATCH BASIN, NO. 2-3                                                                       |               |                |             |
|              |  | 1     |     |  |  |  |               | 1         |  |               |  | 611  | 98631     | 1           | EACH | CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN                                                 |               |                | 63, 64      |

GENERAL SUMMARY

FRA - 70 / 71 - 12.68 / 14.86

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

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| SHEET NUMBER |      |     |  | PARTICIPATION |           |               |     | ITEM    | ITEM EXT. | GRAND TOTAL | UNIT | DESCRIPTION                                                                                                     | SEE SHEET NO. | CALCULATED ATR | CHECKED CWL |
|--------------|------|-----|--|---------------|-----------|---------------|-----|---------|-----------|-------------|------|-----------------------------------------------------------------------------------------------------------------|---------------|----------------|-------------|
| 69A          |      | 223 |  | 01/NHS/PV     | 01/NHS/PV | 05/NHS/OT/COL |     |         |           |             |      |                                                                                                                 |               |                |             |
|              |      |     |  |               |           |               |     |         |           |             |      |                                                                                                                 |               |                |             |
|              |      |     |  |               |           |               |     |         |           |             |      | DRAINAGE (CONTINUED)                                                                                            |               |                |             |
|              |      | 1   |  |               | 1         |               |     | 611     | 99111     | 1           | EACH | INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN                                                     | 64            |                |             |
|              |      | 10  |  |               | 4         | 6             |     | 611     | 99114     | 10          | EACH | INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D                                                                   |               |                |             |
|              |      | 8   |  |               | 4         | 4             |     | 611     | 99115     | 8           | EACH | INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN                                                      | 64            |                |             |
|              |      | 2   |  |               | 1         | 1             |     | 611     | 99151     | 2           | EACH | INLET ADJUSTED TO GRADE, AS PER PLAN                                                                            | 63 , 64       |                |             |
|              |      |     |  |               |           |               |     |         |           |             |      |                                                                                                                 |               |                |             |
|              |      | 26  |  |               | 12        | 14            |     | 611     | 99574     | 26          | EACH | MANHOLE, NO. 3                                                                                                  |               |                |             |
|              |      | 10  |  |               | 4         | 6             |     | 611     | 99575     | 10          | EACH | MANHOLE, NO. 3, AS PER PLAN                                                                                     | 64            |                |             |
|              |      | 4   |  |               | 1         | 2             | 1   | 611     | 99655     | 4           | EACH | MANHOLE ADJUSTED TO GRADE, AS PER PLAN                                                                          | 63 , 64       |                |             |
|              |      |     |  |               |           |               |     |         |           |             |      |                                                                                                                 |               |                |             |
|              | 4    | 4   |  |               | 4         | 4             |     | 611     | 99710     | 8           | EACH | PRECAST REINFORCED CONCRETE OUTLET                                                                              |               |                |             |
|              | 1000 |     |  |               | 440       | 560           |     | SPECIAL | 61199820  | 1000        | LB   | MISCELLANEOUS METAL                                                                                             | 63            |                |             |
|              |      | 1   |  |               |           | 1             |     | 611     | 99900     | 1           | EACH | DRAINAGE STRUCTURE, MISC.: GATEWELL RECONSTRUCTED TO GRADE                                                      | 669A          |                |             |
|              |      |     |  |               |           |               |     |         |           |             |      |                                                                                                                 |               |                |             |
|              |      | 8   |  |               | 3         | 3             | 2   | SPECIAL | 69098000  | 8           | EACH | CITY OF COLUMBUS STANDARD CURB AND GUTTER INLET (AA-S125A WITH GRATE AA-S128)                                   | 63 , 64       |                |             |
|              |      | 1   |  |               |           |               | 1   | SPECIAL | 69098000  | 1           | EACH | CITY OF COLUMBUS RECTANGULAR CATCH BASIN (AA-S135 WITH GRATE AA-S140)                                           | 63 , 64       |                |             |
|              |      | 4   |  |               | 2         | 2             |     | SPECIAL | 69098000  | 4           | EACH | CITY OF COLUMBUS STANDARD CATCH BASIN (AA-S133A WITH GRATE AA-S141)                                             | 63 , 64       |                |             |
|              |      | 9   |  |               | 3         | 5             | 1   | SPECIAL | 69098000  | 9           | EACH | CITY OF COLUMBUS MANHOLE, TYPE C (AA-S102)                                                                      | 63 , 64       |                |             |
|              |      |     |  |               |           |               |     |         |           |             |      |                                                                                                                 |               |                |             |
|              |      | 99  |  |               | 44        | 55            |     | SPECIAL | 69098100  | 99          | FT   | CITY OF COLUMBUS 6" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL                             | 63            |                |             |
|              |      | 73  |  |               | 32        | 41            |     | SPECIAL | 69098100  | 73          | FT   | CITY OF COLUMBUS 8" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL                             | 63            |                |             |
|              |      | 638 |  |               | 217       | 278           | 143 | SPECIAL | 69098100  | 638         | FT   | CITY OF COLUMBUS 12" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL                            | 63            |                |             |
|              |      | 162 |  |               | 71        | 91            |     | SPECIAL | 69098100  | 162         | FT   | CITY OF COLUMBUS 12" PIPE, 706.02 WITH 706.11 JOINTS, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL | 63            |                |             |
|              |      |     |  |               |           |               |     |         |           |             |      |                                                                                                                 |               |                |             |
|              |      | 56  |  |               | 25        | 31            |     | SPECIAL | 69098100  | 56          | FT   | CITY OF COLUMBUS 15" PIPE, 706.02 WITH 706.11 JOINTS, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL | 63            |                |             |
|              |      |     |  |               |           |               |     |         |           |             |      |                                                                                                                 |               |                |             |
|              |      | 369 |  |               | 162       | 207           |     | 837     | 10000     | 369         | FT   | LINER PIPE, 27" I.D., 707.12                                                                                    |               |                |             |

GENERAL SUMMARY

FRA -70/ 71-12.68 / 14.86

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

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Main data table with columns: SHEET NUMBER, PARTICIPATION, ITEM, ITEM EXT., GRAND TOTAL, UNIT, DESCRIPTION, and SEE SHEET NO. It contains multiple rows detailing pavement and water work items.

Summary and administrative columns: CALCULATED ATR CHECKED CWL, GENERAL SUMMARY (vertical text), and FRA - 70 / 71-12.68 / 14.86.



| SHEET NUMBER |  |      |  | PARTICIPATION |           |           |           |  |  |  |  |           |               | ITEM | ITEM EXT. | GRAND TOTAL | UNIT | DESCRIPTION                              | SEE SHEET NO.                                                                          |                                                    |
|--------------|--|------|--|---------------|-----------|-----------|-----------|--|--|--|--|-----------|---------------|------|-----------|-------------|------|------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------|
| 69B          |  | 225A |  | 01/NHS/PV     | 01/NHS/PV | 02/NHS/BR | 03/NHS/BR |  |  |  |  | 04/MPO/OT | 05/NHS/OT/COL |      |           |             |      |                                          |                                                                                        | 06/ENH/OT/COL                                      |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      | OTHER UTILITIES                          |                                                                                        |                                                    |
|              |  | 2    |  |               |           |           |           |  |  |  |  |           | 2             |      |           |             |      | PRIVATE TELECOM MANHOLE, AS PER PLAN     | 938C                                                                                   |                                                    |
|              |  | 4    |  |               |           |           |           |  |  |  |  |           | 4             |      |           |             |      | 4" CONDUIT RISER                         | 938B                                                                                   |                                                    |
|              |  | 204  |  |               |           |           |           |  |  |  |  |           | 204           |      |           |             |      | CONDUIT ENCASED, 1 - 4"                  | 938B                                                                                   |                                                    |
|              |  | 122  |  |               |           |           |           |  |  |  |  |           | 122           |      |           |             |      | CONDUIT ENCASED, 2 - 4"                  | 938B                                                                                   |                                                    |
|              |  | 26   |  |               |           |           |           |  |  |  |  |           | 26            |      |           |             |      | CONDUIT ENCASED, 6 - 4"                  | 938B                                                                                   |                                                    |
|              |  | 1117 |  |               |           |           |           |  |  |  |  |           | 1117          |      |           |             |      | CONDUIT ENCASED, 8 - 4"                  | 938B                                                                                   |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      | TRAFFIC SURVEILLANCE                     |                                                                                        |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      | FOR TRAFFIC SURVEILLANCE GENERAL SUMMARY | 1122                                                                                   |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      | TRAFFIC CONTROL                          |                                                                                        |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      | FOR TRAFFIC CONTROL GENERAL SUMMARY      | 961,962                                                                                |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      | TRAFFIC SIGNALS                          |                                                                                        |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      | FOR TRAFFIC SIGNALS GENERAL SUMMARY      | 1097                                                                                   |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      | LANDSCAPING                              |                                                                                        |                                                    |
| 5            |  |      |  | 2             | 3         |           |           |  |  |  |  |           |               |      |           |             |      | 661 40081 5 EACH                         | DECIDUOUS TREE, 2" CALIPER, AS PER PLAN, CERCIS CANADENSIS - RED BUD                   | 66                                                 |
| 8            |  |      |  | 4             | 4         |           |           |  |  |  |  |           |               |      |           |             |      | 661 40101 8 EACH                         | DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, CELTIS OCCIDENTALIS - HACKBERRY           | 66                                                 |
| 12           |  |      |  | 5             | 7         |           |           |  |  |  |  |           |               |      |           |             |      | 661 40101 12 EACH                        | DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, PLATANUS OCCIDENTALIS - SYCAMORE          | 66                                                 |
| 5            |  |      |  | 2             | 3         |           |           |  |  |  |  |           |               |      |           |             |      | 661 40101 5 EACH                         | DECIDUOUS TREE, 2-1/2" CALIPER, AS PER PLAN, QUERCUS BICOLOR - SWAMP WHITE OAK         | 66                                                 |
| 20           |  |      |  | 9             | 11        |           |           |  |  |  |  |           |               |      |           |             |      | 661 99900 20 EACH                        | PLANTING, MISC.: DECIDUOUS SHRUB, 24" - 36" HEIGHT, VIBURNUM DENTATUM - ARROWWOOD      | 66                                                 |
| 20           |  |      |  | 9             | 11        |           |           |  |  |  |  |           |               |      |           |             |      | 661 99900 20 EACH                        | PLANTING, MISC.: DECIDUOUS SHRUB, 24" - 36" HEIGHT, PHYSOCARPUS OPULIFOLIUS - NINEBARK | 66                                                 |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR LANDSCAPING GENERAL SUMMARY                                                        | 1207                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | RETAINING WALLS                                                                        |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FLOODWALL GENERAL SUMMARY                                                          | 694                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W1 GENERAL SUMMARY                                                 | 712                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W2 GENERAL SUMMARY                                                 | 731                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W4 GENERAL SUMMARY                                                 | 756                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W5 GENERAL SUMMARY                                                 | 764                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W6 GENERAL SUMMARY                                                 | 764                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W7 GENERAL SUMMARY                                                 | 790                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W8 GENERAL SUMMARY                                                 | 804                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W9 GENERAL SUMMARY                                                 | 824                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W10 GENERAL SUMMARY                                                | 831                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W11 GENERAL SUMMARY                                                | 835                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W12 GENERAL SUMMARY                                                | 845                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W20 GENERAL SUMMARY                                                | 883                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR RETAINING WALL 4W21A, 4W21B, 4W21C GENERAL SUMMARY                                 | 888A                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR TEMPORARY SHORING AND WALL GENERAL SUMMARY                                         | 889                                                |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | STRUCTURE OVER 20 FOOT SPAN                                                            |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1282R GENERAL SUMMARY                                                       | 1232                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1301A GENERAL SUMMARY                                                       | 1277                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-71-1518A GENERAL SUMMARY                                                       | 1336                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1321A GENERAL SUMMARY                                                       | 1375                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1343 GENERAL SUMMARY                                                        | 1462A                                              |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1357A GENERAL SUMMARY                                                       | 1463                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1358A GENERAL SUMMARY                                                       | 1476                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1373R GENERAL SUMMARY                                                       | 1511                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1373A GENERAL SUMMARY                                                       | 1542                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1390C GENERAL SUMMARY                                                       | 1571                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1395C GENERAL SUMMARY                                                       | 1687                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR FRA-70-1395C AESTHETIC ENHANCEMENT GENERAL SUMMARY                                 | 1748                                               |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | MAINTENANCE OF TRAFFIC                                                                 |                                                    |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY                                             | 80                                                 |
|              |  |      |  |               |           |           |           |  |  |  |  |           |               |      |           |             |      |                                          | INCIDENTALS                                                                            |                                                    |
|              |  |      |  | LS            | LS        |           |           |  |  |  |  |           |               |      |           |             |      |                                          | 100 50100 LS 180000                                                                    | DEPARTMENT'S SHARE OF THE DISPUTE RESOLUTION BOARD |
|              |  |      |  | LS            | LS        |           |           |  |  |  |  |           |               |      |           |             |      |                                          | 108 10000 LS                                                                           | CPM PROGRESS SCHEDULE                              |
|              |  |      |  | LS            | LS        |           |           |  |  |  |  |           |               |      |           |             |      |                                          | SPECIAL 614 11000 LS                                                                   | DEPARTMENTS SHARE FACILITATED PARTNERING COSTS     |
|              |  |      |  | LS            | LS        |           |           |  |  |  |  |           |               |      |           |             |      |                                          | 614 11000 LS                                                                           | MAINTAINING TRAFFIC                                |
|              |  |      |  | LS            | LS        |           |           |  |  |  |  |           |               |      |           |             |      |                                          | 623 10000 LS                                                                           | CONSTRUCTION LAYOUT STAKES AND SURVEYING           |
|              |  |      |  | LS            | LS        |           |           |  |  |  |  |           |               |      |           |             |      |                                          | 624 10000 LS                                                                           | MOBILIZATION                                       |

GENERAL SUMMARY

FRA - 70 / 71 - 12.68 / 14.86

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1815

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| NO. | DESCRIPTION              | REV. | BY  | DATE       |
|-----|--------------------------|------|-----|------------|
| 3   | UPDATED ITEM 100 AND 111 |      | CWL | 11-19-2021 |
| 4   | FUNDING CODE CHANGE      |      | CWL | 11-29-2021 |

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| SHEET NO.                                | 202              |           |               | 202                       |           |               | 202           |               | 202           |                       |           | 202                      |                 |           | 202                    |                              |           | 202           |                   |           | 202                     |                                    |           | 202               |                                    |           | 202                         |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
|------------------------------------------|------------------|-----------|---------------|---------------------------|-----------|---------------|---------------|---------------|---------------|-----------------------|-----------|--------------------------|-----------------|-----------|------------------------|------------------------------|-----------|---------------|-------------------|-----------|-------------------------|------------------------------------|-----------|-------------------|------------------------------------|-----------|-----------------------------|-------------------|-----------|------------------------|----------------------------------------|-----------|--------------------------|-----------------------------------------|----|---|-------------------------|--|--|----------------------------------|--|--|--------------------------------------------------|--|--|---------------------------|--|---|--|--|--|
|                                          | PAVEMENT REMOVED |           |               | PAVEMENT REMOVED, ASPHALT |           |               | WALK REMOVED  |               | STEPS REMOVED |                       |           | CONCRETE BARRIER REMOVED |                 |           | TRAFFIC ISLAND REMOVED |                              |           | CURB REMOVED  |                   |           | CURB AND GUTTER REMOVED |                                    |           | GUARDRAIL REMOVED |                                    |           | PIPE REMOVED, 24" AND UNDER |                   |           | PIPE REMOVED, OVER 24" |                                        |           | REMOVAL MISC.: WOOD POLE |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
|                                          | SY               |           |               | SY                        |           |               | SF            |               | FT            |                       |           | FT                       |                 |           | SY                     |                              |           | FT            |                   |           | SY                      |                                    |           | FT                |                                    |           | FT                          |                   |           | FT                     |                                        |           | EACH                     |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
|                                          | 01/NHS/PV        | 01/NHS/PV | 05/NHS/OT/COL | 01/NHS/PV                 | 01/NHS/PV | 05/NHS/OT/COL | 01/NHS/PV     | 05/NHS/OT/COL |               | 01/NHS/PV             | 01/NHS/PV | 01/NHS/PV                | 01/NHS/PV       | 01/NHS/PV |                        | 01/NHS/PV                    | 01/NHS/PV | 05/NHS/OT/COL | 01/NHS/PV         | 01/NHS/PV | 01/NHS/PV               |                                    | 01/NHS/PV | 01/NHS/PV         | 01/NHS/PV                          | 01/NHS/PV | 01/NHS/PV                   | 01/NHS/PV         | 01/NHS/PV | 01/NHS/PV              | 01/NHS/PV                              |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 242                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    | 2812      | 3579              |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 246                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    | 440       | 559                         |                   | 93        | 119                    |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 247                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    | 1034      | 1317                        |                   |           |                        | 2                                      |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 248                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             | 121               |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 254                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             | 794               |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 256                                      | 4850             | 5604      | 62            | 3781                      | 4261      | 19            | 671           |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 257                                      | 5672             | 7145      |               | 11591                     | 4407      | 1234          | 23372         | 2612          |               | 4                     | 752       | 957                      | 2070            | 2634      |                        | 2995                         | 3760      | 83            | 60                |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              | 10522     | 12749         | 62                | 15372     | 8668                    | 1253                               | 24043     | 2612              |                                    | 4         | 874                         | 1112              | 2085      | 2653                   |                                        | 8742      | 6954                     | 668                                     | 60 |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  | 2 |  |  |  |
| SHEET NO.                                | 202              |           |               | 202                       |           |               | 202           |               |               | 202                   |           |                          | 202             |           |                        | 202                          |           |               | 202               |           |                         | 202                                |           |                   | 202                                |           |                             | 202               |           |                        | 202                                    |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
|                                          | MANHOLE REMOVED  |           |               | CATCH BASIN REMOVED       |           |               | INLET REMOVED |               |               | CATCH BASIN ABANDONED |           |                          | INLET ABANDONED |           |                        | INLET ABANDONED, AS PER PLAN |           |               | MANHOLE ABANDONED |           |                         | MANHOLE ABANDONED, AS PER PLAN "A" |           |                   | MANHOLE ABANDONED, AS PER PLAN "B" |           |                             | VALVE BOX REMOVED |           |                        | REMOVAL MISC.: BENCH REMOVED AND RESET |           |                          | REMOVAL MISC.: TRAFFIC BOLLARDS REMOVED |    |   | REMOVAL MISC.: BOLLARDS |  |  | REMOVAL MISC.: ROCK ART MONOLITH |  |  | REMOVAL MISC.: BRICK PAVERS REMOVED AND SALVAGED |  |  | REMOVAL MISC.: LIGHT POLE |  |   |  |  |  |
|                                          | EACH             |           |               | EACH                      |           |               | EACH          |               |               | EACH                  |           |                          | EACH            |           |                        | EACH                         |           |               | EACH              |           |                         | EACH                               |           |                   | EACH                               |           |                             | EACH              |           |                        | EACH                                   |           |                          | EACH                                    |    |   | EACH                    |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
|                                          | 01/NHS/PV        | 01/NHS/PV | 01/NHS/PV     | 01/NHS/PV                 | 01/NHS/PV | 05/NHS/OT/COL | 01/NHS/PV     | 01/NHS/PV     | 05/NHS/OT/COL | 01/NHS/PV             | 01/NHS/PV | 01/NHS/PV                | 01/NHS/PV       | 01/NHS/PV | 01/NHS/PV              | 01/NHS/PV                    | 01/NHS/PV | 01/NHS/PV     | 01/NHS/PV         | 01/NHS/PV | 01/NHS/PV               | 01/NHS/PV                          | 01/NHS/PV | 01/NHS/PV         | 01/NHS/PV                          | 01/NHS/PV | 05/NHS/OT/COL               | 01/NHS/PV         | 01/NHS/PV | 01/NHS/PV              | 01/NHS/PV                              | 01/NHS/PV | 05/NHS/OT/COL            | 01/NHS/PV                               |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 230                                      |                  |           |               |                           |           |               |               |               |               | 1                     | 2         | 1                        | 1               | 1         | 2                      |                              | 1         | 1             | 1                 | 2         | 2                       |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 234                                      | 3                | 3         |               | 5                         | 7         |               | 7             | 8             |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 235                                      | 4                | 6         |               | 3                         | 4         | 1             | 7             | 8             | 1             |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 247                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 248                                      |                  |           | 6             |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 254                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 255                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| 257                                      |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              |           |               |                   |           |                         |                                    |           |                   |                                    |           |                             |                   |           |                        |                                        |           |                          |                                         |    |   |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                  |           |               |                           |           |               |               |               |               |                       |           |                          |                 |           |                        |                              | 7         | 9             | 6                 | 8         | 11                      | 1                                  | 14        | 16                | 1                                  | 1         | 2                           | 1                 | 1         | 1                      | 2                                      |           | 1                        | 1                                       | 1  | 2 |                         |  |  |                                  |  |  |                                                  |  |  |                           |  |   |  |  |  |

CALCULATED CJC  
 CHECKED CWL  
**ROADWAY SUBSUMMARY**  
**FRA - 70 / 71 - 12.68 / 14.86**  
 219  
 1815

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |



| SHEET NO.                                                                 | 606                                                          |                                                              | 202              |              |               | 202              |           | 607                            |               |             | 606                                        |           | 606                                     |                                              | 606                         |                                                       | 606                                  |                                     | 606                                  |                                  | 607                                                          |                                           |                           | 607                                     |           | 607                                |            | 607                              |            |                                    |            |                                 |
|---------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|------------------|--------------|---------------|------------------|-----------|--------------------------------|---------------|-------------|--------------------------------------------|-----------|-----------------------------------------|----------------------------------------------|-----------------------------|-------------------------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|----------------------------------|--------------------------------------------------------------|-------------------------------------------|---------------------------|-----------------------------------------|-----------|------------------------------------|------------|----------------------------------|------------|------------------------------------|------------|---------------------------------|
|                                                                           | IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL (50 MPH, 48" WIDTH) | IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL (50 MPH, 48" WIDTH) | FENCE REMOVED    |              |               | GATE REMOVED     |           | TEMPORARY VANDAL FENCE, TYPE B |               |             | GUARDRAIL, TYPE MGS                        |           | ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) |                                              | ANCHOR ASSEMBLY, MGS TYPE T |                                                       | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 |                                     | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 |                                  | IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL (60 MPH, 48" WIDTH) |                                           | FENCE REMOVED AND REBUILT |                                         |           | FENCE, TYPE CLT                    |            | FENCE, TYPE CLT, AS PER PLAN "A" |            | FENCE, TYPE CLT, AS PER PLAN "B"   |            |                                 |
|                                                                           | EACH                                                         | EACH                                                         | FT               |              |               | EACH             |           | FT                             |               |             | FT                                         |           | EACH                                    |                                              | EACH                        |                                                       | EACH                                 |                                     | EACH                                 |                                  | FT                                                           |                                           |                           | FT                                      |           | FT                                 |            | FT                               |            |                                    |            |                                 |
|                                                                           | 01/NHS/PV                                                    | 01/NHS/PV                                                    | 01/NHS/PV        | 01/NHS/PV    | 05/NHS/OT/COL | 01/NHS/PV        | 01/NHS/PV | 01/NHS/PV                      | 01/NHS/PV     | 01/NHS/PV   | 01/NHS/PV                                  | 01/NHS/PV | 01/NHS/PV                               | 01/NHS/PV                                    | 01/NHS/PV                   | 01/NHS/PV                                             | 01/NHS/PV                            | 01/NHS/PV                           | 01/NHS/PV                            | 01/NHS/PV                        | 01/NHS/PV                                                    | 01/NHS/PV                                 | 05/NHS/OT/COL             | 01/NHS/PV                               | 01/NHS/PV | 01/NHS/PV                          | 01/NHS/PV  | 01/NHS/PV                        | 01/NHS/PV  | 01/NHS/PV                          |            |                                 |
| 230                                                                       |                                                              |                                                              |                  |              |               |                  |           |                                |               |             |                                            |           |                                         |                                              |                             |                                                       |                                      |                                     |                                      |                                  | 1                                                            | 1                                         |                           |                                         |           |                                    |            |                                  |            |                                    |            |                                 |
| 240                                                                       |                                                              |                                                              | 2105             | 2679         | 424           |                  | 1         | 325                            | 414           |             |                                            |           |                                         |                                              |                             |                                                       |                                      |                                     |                                      |                                  |                                                              |                                           |                           |                                         |           |                                    |            |                                  |            |                                    |            |                                 |
| 241                                                                       | 1                                                            | 1                                                            |                  |              |               |                  |           |                                |               | 4164        | 5299                                       | 2         | 3                                       | 2                                            | 2                           | 8                                                     | 11                                   | 4                                   | 6                                    |                                  |                                                              |                                           |                           | 18                                      | 23        | 47                                 | 212        | 269                              | 244        | 310                                | 324        | 412                             |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b>                                  | <b>1</b>                                                     | <b>1</b>                                                     | <b>2105</b>      | <b>2679</b>  | <b>424</b>    |                  | <b>1</b>  | <b>325</b>                     | <b>414</b>    | <b>4164</b> | <b>5299</b>                                | <b>2</b>  | <b>3</b>                                | <b>2</b>                                     | <b>2</b>                    | <b>8</b>                                              | <b>11</b>                            | <b>4</b>                            | <b>6</b>                             | <b>1</b>                         | <b>1</b>                                                     |                                           | <b>18</b>                 | <b>23</b>                               | <b>47</b> | <b>212</b>                         | <b>269</b> | <b>244</b>                       | <b>310</b> | <b>324</b>                         | <b>412</b> |                                 |
| SHEET NO.                                                                 | 607                                                          |                                                              | 607              |              |               | 608              |           |                                |               |             | 608                                        |           |                                         | 608                                          |                             | 608                                                   |                                      | 608                                 |                                      | 622                              |                                                              | 622                                       |                           | 626*                                    |           |                                    |            | 626*                             |            | 607                                |            |                                 |
|                                                                           | GATE, TYPE CLT, AS PER PLAN "A"                              | FENCELINE SEEDING AND MULCHING                               | 4" CONCRETE WALK |              |               | 8" CONCRETE WALK |           |                                |               |             | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE A |           |                                         | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE P-7 |                             | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE P-4 MODIFIED |                                      | CONCRETE STEPS, TYPE B, AS PER PLAN |                                      | WALKWAY, MISC.: BRICK PAVER WALK |                                                              | PORTABLE BARRIER, UNANCHORED, AS PER PLAN |                           | PORTABLE BARRIER, ANCHORED, AS PER PLAN |           | BARRIER REFLECTOR, TYPE 1, ONE-WAY |            |                                  |            | BARRIER REFLECTOR, TYPE 2, ONE-WAY |            | GATE, TYPE CLT, AS PER PLAN "B" |
|                                                                           | EACH                                                         | FT                                                           |                  |              | SF            |                  |           |                                |               | SF          |                                            |           | EACH                                    | EACH                                         | EACH                        | FT                                                    | SF                                   |                                     | FT                                   |                                  | FT                                                           |                                           | EACH                      |                                         |           |                                    | EACH       |                                  | EACH       |                                    |            |                                 |
|                                                                           | 01/NHS/PV                                                    | 01/NHS/PV                                                    | 01/NHS/PV        | 01/NHS/PV    | 04/MPO/OT     | 05/NHS/OT/COL    | 01/NHS/PV | 04/MPO/OT                      | 05/NHS/OT/COL | 01/NHS/PV   | 01/NHS/PV                                  | 01/NHS/PV | 01/NHS/PV                               | 01/NHS/PV                                    | 01/NHS/PV                   | 04/MPO/OT                                             | 06/ENH/OT/COL                        | 01/NHS/PV                           | 01/NHS/PV                            | 01/NHS/PV                        | 01/NHS/PV                                                    | 01/NHS/PV                                 | 01/NHS/PV                 | 01/NHS/PV                               | 01/NHS/PV | 01/NHS/PV                          | 01/NHS/PV  | 01/NHS/PV                        | 01/NHS/PV  | 01/NHS/PV                          |            |                                 |
| 230                                                                       |                                                              |                                                              |                  |              |               |                  |           |                                |               |             |                                            |           |                                         |                                              |                             |                                                       |                                      | 839                                 | 703                                  | 661                              | 1150                                                         |                                           |                           |                                         |           |                                    |            |                                  |            |                                    |            |                                 |
| 240                                                                       |                                                              | 1                                                            | 391              | 497          |               |                  |           |                                |               |             |                                            |           |                                         |                                              |                             |                                                       |                                      |                                     |                                      |                                  |                                                              |                                           |                           |                                         |           |                                    |            |                                  |            |                                    |            |                                 |
| 241                                                                       |                                                              |                                                              |                  |              |               |                  |           |                                |               |             |                                            |           |                                         |                                              |                             |                                                       |                                      |                                     |                                      |                                  |                                                              |                                           |                           | 106                                     | 134       | 59                                 | 76         |                                  |            |                                    |            |                                 |
| 259                                                                       |                                                              |                                                              |                  |              | 3441          | 54               | 7516      |                                | 541           | 30          | 369                                        |           | 6                                       | 1                                            | 1                           |                                                       | 233                                  | 1703                                |                                      |                                  |                                                              |                                           |                           |                                         |           |                                    |            |                                  |            |                                    |            |                                 |
| 260                                                                       |                                                              |                                                              |                  |              | 9481          | 135              |           |                                | 667           | 39          |                                            |           | 10                                      |                                              |                             | 14                                                    | 358                                  | 480                                 |                                      |                                  |                                                              |                                           |                           |                                         |           |                                    |            |                                  |            |                                    |            |                                 |
| <b>* QUANTITY CARRIED TO TRAFFIC CONTROL GENERAL SUMMARY ON SHEET 961</b> |                                                              |                                                              |                  |              |               |                  |           |                                |               |             |                                            |           |                                         |                                              |                             |                                                       |                                      |                                     |                                      |                                  |                                                              |                                           |                           |                                         |           |                                    |            |                                  |            |                                    |            |                                 |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b>                                  | <b>1</b>                                                     | <b>391</b>                                                   | <b>497</b>       | <b>12922</b> | <b>189</b>    | <b>7516</b>      |           | <b>1208</b>                    | <b>69</b>     | <b>369</b>  |                                            | <b>16</b> | <b>1</b>                                | <b>1</b>                                     | <b>14</b>                   | <b>591</b>                                            | <b>2183</b>                          | <b>839</b>                          | <b>703</b>                           | <b>661</b>                       | <b>1150</b>                                                  |                                           | <b>106</b>                | <b>134</b>                              | <b>59</b> | <b>76</b>                          |            |                                  | <b>1</b>   | <b>1</b>                           |            |                                 |

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| SHEET NO.                                    | 601<br>TIED CONCRETE BLOCK MAT,<br>TYPE 1       |               | 601<br>TIED CONCRETE BLOCK MAT,<br>TYPE 2              |    | 601<br>ROCK CHANNEL<br>PROTECTION, TYPE C WITH<br>FILTER          |               | 601<br>PAVED GUTTER, TYPE 1-2,<br>AS PER PLAN |               | 601<br>CONCRETE SLOPE<br>PROTECTION |      | 660<br>SODDING UNSTAKED |               | 670<br>DITCH EROSION PROTECTION |               |               |    |               |               |     |               |               |  |    |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------|-------------------------------------------------|---------------|--------------------------------------------------------|----|-------------------------------------------------------------------|---------------|-----------------------------------------------|---------------|-------------------------------------|------|-------------------------|---------------|---------------------------------|---------------|---------------|----|---------------|---------------|-----|---------------|---------------|--|----|--|------|--|------|--|--|--|--|--|--|--|--|--|--|--|--|
|                                              | SY                                              | 01/NHS/P<br>V | 01/NHS/P<br>V                                          | SY | 01/NHS/P<br>V                                                     | 01/NHS/P<br>V | CY                                            | 01/NHS/P<br>V | 01/NHS/P<br>V                       | FT   | 01/NHS/P<br>V           | 01/NHS/P<br>V | SY                              | 01/NHS/P<br>V | 01/NHS/P<br>V | SY | 01/NHS/P<br>V | 01/NHS/P<br>V | SY  | 01/NHS/P<br>V | 01/NHS/P<br>V |  |    |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 236                                          | 98                                              |               | 125                                                    |    | 107                                                               |               | 136                                           |               | 3                                   |      | 3                       |               | 251                             |               | 320           |    | 496           |               | 631 |               | 42            |  | 53 |  | 1018 |  | 1295 |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>TOTALS CARRIED TO<br/>GENERAL SUMMARY</b> | 98                                              |               | 125                                                    |    | 107                                                               |               | 136                                           |               | 3                                   |      | 3                       |               | 251                             |               | 320           |    | 496           |               | 631 |               | 42            |  | 53 |  | 1018 |  | 1295 |  |  |  |  |  |  |  |  |  |  |  |  |
| SHEET NO.                                    | 832<br>STORM WATER POLLUTION<br>PREVENTION PLAN |               | 832<br>STORM WATER POLLUTION<br>PREVENTION INSPECTIONS |    | 832<br>STORM WATER POLLUTION<br>PREVENTION INSPECTION<br>SOFTWARE |               | 832<br>EROSION CONTROL                        |               |                                     |      |                         |               |                                 |               |               |    |               |               |     |               |               |  |    |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|                                              | LS                                              | 01/NHS/P<br>V | 01/NHS/P<br>V                                          | LS | 01/NHS/P<br>V                                                     | 01/NHS/P<br>V | LS                                            | 01/NHS/P<br>V | 01/NHS/P<br>V                       | EACH | 01/NHS/P<br>V           | 01/NHS/P<br>V |                                 |               |               |    |               |               |     |               |               |  |    |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 236                                          |                                                 |               |                                                        |    |                                                                   |               |                                               |               |                                     |      |                         |               |                                 |               |               |    |               |               |     |               |               |  |    |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 261                                          | LS                                              |               | LS                                                     |    | LS                                                                |               | LS                                            |               | LS                                  |      | LS                      | 506000        | 644000                          |               |               |    |               |               |     |               |               |  |    |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>TOTALS CARRIED TO<br/>GENERAL SUMMARY</b> | LS                                              |               | LS                                                     |    | LS                                                                |               | LS                                            |               | LS                                  |      | LS                      | 506000        | 644000                          |               |               |    |               |               |     |               |               |  |    |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

CALCULATED CJC  
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**EROSION CONTROL SUBSUMMARY**  
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| SHEET NO.                                | 602                                            |            | 605                              |                | 605                      |                | 605                              |                | 605                      |            | 605                                                |            | 605                                                     |            | 611                                             |                | 611                                      |            | 611                                       |            | 611                 |            | 611                 |            | 611                 |            | 611                         |            | 611                              |            | 611                                                                                        |            | 611                                                |            | 611                                            |            |                                              |    |                     |  |
|------------------------------------------|------------------------------------------------|------------|----------------------------------|----------------|--------------------------|----------------|----------------------------------|----------------|--------------------------|------------|----------------------------------------------------|------------|---------------------------------------------------------|------------|-------------------------------------------------|----------------|------------------------------------------|------------|-------------------------------------------|------------|---------------------|------------|---------------------|------------|---------------------|------------|-----------------------------|------------|----------------------------------|------------|--------------------------------------------------------------------------------------------|------------|----------------------------------------------------|------------|------------------------------------------------|------------|----------------------------------------------|----|---------------------|--|
|                                          | CONCRETE MASONRY                               |            | 6" UNCLASSIFIED PIPE UNDERDRAINS |                | 6" BASE PIPE UNDERDRAINS |                | 4" UNCLASSIFIED PIPE UNDERDRAINS |                | 4" BASE PIPE UNDERDRAINS |            | 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |            | 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |            | 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |                | 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET |            | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS |            | 4" CONDUIT, TYPE B  |            | 6" CONDUIT, TYPE B  |            | 12" CONDUIT, TYPE B |            | 12" CONDUIT, TYPE B, 706.02 |            | 12" CONDUIT, TYPE C              |            | 15" CONDUIT, TYPE B                                                                        |            | 15" CONDUIT, TYPE B, 706.02                        |            | 15" CONDUIT, TYPE B, 706.02 WITH 706.11 JOINTS |            | 15" CONDUIT, TYPE B, AS PER PLAN             |    | 15" CONDUIT, TYPE C |  |
|                                          | CY                                             |            | FT                               |                | FT                       |                | FT                               |                | FT                       |            | FT                                                 |            | FT                                                      |            | FT                                              |                | FT                                       |            | FT                                        |            | FT                  |            | FT                  |            | FT                  |            | FT                          |            | FT                               |            | FT                                                                                         |            | FT                                                 |            | FT                                             |            | FT                                           |    |                     |  |
|                                          | 01/NHS /PV                                     | 01/NHS /PV | 05/NHS/ OT/COL                   | 05/NHS/ OT/COL | 01/NHS /PV               | 05/NHS/ OT/COL | 01/NHS /PV                       | 05/NHS/ OT/COL | 01/NHS /PV               | 01/NHS /PV | 01/NHS /PV                                         | 01/NHS /PV | 01/NHS /PV                                              | 01/NHS /PV | 01/NHS /PV                                      | 05/NHS/ OT/COL | 01/NHS /PV                               | 01/NHS /PV | 01/NHS /PV                                | 01/NHS /PV | 01/NHS /PV          | 01/NHS /PV | 01/NHS /PV          | 01/NHS /PV | 01/NHS /PV          | 01/NHS /PV | 01/NHS /PV                  | 01/NHS /PV | 01/NHS /PV                       | 01/NHS /PV | 01/NHS /PV                                                                                 | 01/NHS /PV | 01/NHS /PV                                         | 01/NHS /PV | 01/NHS /PV                                     | 01/NHS /PV | 01/NHS /PV                                   |    |                     |  |
| 242                                      | 0.9                                            | 1.1        |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 243                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 244                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 245                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 246                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 250                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 251                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 252                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 252A                                     |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 252B                                     |                                                |            | 12                               | 345            | 43                       | 9              | 659                              | 311            | 21                       | 26         | 80                                                 | 102        | 400                                                     | 508        | 123                                             | 20             | 17                                       | 21         |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> | 0.9                                            | 1.1        | 12                               | 345            | 43                       | 9              | 1684                             | 311            | 6146                     | 7821       | 523                                                | 661        | 11136                                                   | 14145      | 163                                             | 20             | 285                                      | 360        | 22                                        |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| SHEET NO.                                | 611                                            |            | 611                              |                | 611                      |                | 611                              |                | 611                      |            | 611                                                |            | 611                                                     |            | 611                                             |                | 611                                      |            | 611                                       |            | 611                 |            | 611                 |            | 611                 |            | 611                         |            | 611                              |            | 611                                                                                        |            | 611                                                |            | 611                                            |            |                                              |    |                     |  |
|                                          | 15" CONDUIT, TYPE C, 706.02 WITH 706.11 JOINTS |            | 15" CONDUIT, TYPE C, AS PER PLAN |                | 18" CONDUIT, TYPE B      |                | 18" CONDUIT, TYPE C              |                | 21" CONDUIT, TYPE B      |            | 21" CONDUIT, TYPE B, 706.02 WITH 706.11 JOINTS     |            | 21" CONDUIT, TYPE C                                     |            | 24" CONDUIT, TYPE B                             |                | 24" CONDUIT, TYPE C                      |            | 27" CONDUIT, TYPE B                       |            | 27" CONDUIT, TYPE C |            | 30" CONDUIT, TYPE C |            | 36" CONDUIT, TYPE B |            | 36" CONDUIT, TYPE B, 706.02 |            | 24" CONDUIT, TYPE B, AS PER PLAN |            | CONDUIT, BORED OR JACKED, AS PER PLAN, 42" CONDUIT, TYPE C, 748.06 (0.625" WALL THICKNESS) |            | 18" CONDUIT, TYPE B, 748.01, CLASS 52, AS PER PLAN |            | 18" CONDUIT, TYPE C, AS PER PLAN               |            | CONDUIT, BORED OR JACKED, 42" TYPE B, 748.06 |    |                     |  |
|                                          | FT                                             |            | FT                               |                | FT                       |                | FT                               |                | FT                       |            | FT                                                 |            | FT                                                      |            | FT                                              |                | FT                                       |            | FT                                        |            | FT                  |            | FT                  |            | FT                  |            | FT                          |            | FT                               |            | FT                                                                                         |            | FT                                                 |            | FT                                             |            | FT                                           |    |                     |  |
|                                          | 01/NHS /PV                                     | 01/NHS /PV | 01/NHS /PV                       | 01/NHS /PV     | 01/NHS /PV               | 01/NHS /PV     | 01/NHS /PV                       | 01/NHS /PV     | 01/NHS /PV               | 01/NHS /PV | 01/NHS /PV                                         | 01/NHS /PV | 01/NHS /PV                                              | 01/NHS /PV | 01/NHS /PV                                      | 01/NHS /PV     | 01/NHS /PV                               | 01/NHS /PV | 01/NHS /PV                                | 01/NHS /PV | 01/NHS /PV          | 01/NHS /PV | 01/NHS /PV          | 01/NHS /PV | 01/NHS /PV          | 01/NHS /PV | 01/NHS /PV                  | 01/NHS /PV | 01/NHS /PV                       | 01/NHS /PV | 01/NHS /PV                                                                                 | 01/NHS /PV | 01/NHS /PV                                         | 01/NHS /PV | 01/NHS /PV                                     | 01/NHS /PV | 01/NHS /PV                                   |    |                     |  |
| 243                                      |                                                |            | 10                               | 12             | 50                       | 63             |                                  |                |                          |            | 36                                                 | 46         |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 244                                      | 125                                            | 159        | 7                                | 8              | 308                      | 391            |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 245                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| 246                                      |                                                |            |                                  |                |                          |                |                                  |                |                          |            |                                                    |            |                                                         |            |                                                 |                |                                          |            |                                           |            |                     |            |                     |            |                     |            |                             |            |                                  |            |                                                                                            |            |                                                    |            |                                                |            |                                              |    |                     |  |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> | 125                                            | 159        | 17                               | 20             | 437                      | 555            | 115                              | 146            | 33                       | 43         | 44                                                 | 57         | 110                                                     | 139        | 148                                             | 187            | 138                                      | 174        | 57                                        | 73         | 312                 | 397        | 233                 | 298        | 55                  | 71         | 8                           | 12         | 4                                | 6          | 128                                                                                        | 164        | 5                                                  | 7          | 12                                             | 16         | 55                                           | 71 |                     |  |

CALCULATED CJC  
 CHECKED CWL  
**DRAINAGE SUBSUMMARY**  
**FRA - 70 / 71 - 12.68 / 14.86**  
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| NO. | DESCRIPTION         | REV BY | DATE       |
|-----|---------------------|--------|------------|
| 1   | FUNDING CODE CHANGE | CWL    | 11-29-2021 |

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| SHEET NO.                                | SPECIAL                                                                                                      |           | SPECIAL                                                                              |           |               | SPECIAL                                                                                                      |           | SPECIAL                                                                             |           | 837                                                        |           | 611                                          |           | 611                                                       |           | 611                |           | 611                             |               | 611                                        |           | 611                |                                            | 611                             |                                      | 611                   |                                        | SPECIAL                                                                       |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|-----------|---------------|--------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------|------------------------------------------------------------|-----------|----------------------------------------------|-----------|-----------------------------------------------------------|-----------|--------------------|-----------|---------------------------------|---------------|--------------------------------------------|-----------|--------------------|--------------------------------------------|---------------------------------|--------------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|---------------|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                          | CITY OF COLUMBUS 12" PIPE, 706.02 WITH TYPE 1 JOINTS, WITH 912 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |           | CITY OF COLUMBUS 12" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |           |               | CITY OF COLUMBUS 15" PIPE, 706.02 WITH TYPE 1 JOINTS, WITH 912 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |           | CITY OF COLUMBUS 6" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |           | LINER PIPE, 27" I.D., 707.12                               |           | CATCH BASIN, NO. 3                           |           | CATCH BASIN, NO. 3A                                       |           | CATCH BASIN, NO. 6 |           | CATCH BASIN, NO. 6, AS PER PLAN |               | CATCH BASIN, NO. 7                         |           | CATCH BASIN, NO. 8 |                                            | CATCH BASIN, NO. 8, AS PER PLAN |                                      | CATCH BASIN, NO. 2-2B |                                        | CITY OF COLUMBUS STANDARD CURB AND GUTTER INLET (AA-S125A WITH GRATE AA-S128) |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                          | FT                                                                                                           |           | FT                                                                                   |           |               | FT                                                                                                           |           | FT                                                                                  |           | FT                                                         |           | EACH                                         |           | EACH                                                      |           | EACH               |           | EACH                            |               | EACH                                       |           | EACH               |                                            | EACH                            |                                      | EACH                  |                                        | EACH                                                                          |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                          | 01/NHS/PV                                                                                                    | 01/NHS/PV | 01/NHS/PV                                                                            | 01/NHS/PV | 05/NHS/OT/COL | 01/NHS/PV                                                                                                    | 01/NHS/PV | 01/NHS/PV                                                                           | 01/NHS/PV | 01/NHS/PV                                                  | 01/NHS/PV | 01/NHS/PV                                    | 01/NHS/PV | 01/NHS/PV                                                 | 01/NHS/PV | 01/NHS/PV          | 01/NHS/PV | 01/NHS/PV                       | 01/NHS/PV     | 01/NHS/PV                                  | 01/NHS/PV | 01/NHS/PV          | 01/NHS/PV                                  | 01/NHS/PV                       | 01/NHS/PV                            | 01/NHS/PV             | 01/NHS/PV                              | 01/NHS/PV                                                                     | 05/NHS/OT/COL |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 230                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           | 1                                            | 2         | 3                                                         | 3         |                    |           |                                 |               | 1                                          | 2         |                    |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 231                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           | 3                                            | 4         | 3                                                         | 3         | 1                  | 2         |                                 |               |                                            |           | 1                  | 1                                          |                                 | 1                                    | 2                     | 2                                      | 3                                                                             |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 232                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           |                                              |           |                                                           |           |                    |           |                                 |               | 1                                          | 1         | 2                  | 3                                          |                                 | 1                                    | 1                     | 2                                      |                                                                               | 1             |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 233                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           | 1                                            | 1         | 1                                                         | 2         |                    |           |                                 | 1             | 1                                          |           |                    |                                            |                                 |                                      |                       | 1                                      |                                                                               | 1             |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 243                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           | 162                                                        | 207       |                                              |           |                                                           |           |                    |           |                                 |               |                                            |           |                    |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 245                                      |                                                                                                              |           | 161                                                                                  | 206       | 114           |                                                                                                              |           |                                                                                     |           |                                                            |           |                                              |           |                                                           |           |                    |           |                                 |               |                                            |           |                    |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 246                                      | 71                                                                                                           | 91        | 56                                                                                   | 72        | 29            | 25                                                                                                           | 31        | 44                                                                                  | 55        |                                                            |           |                                              |           |                                                           |           |                    |           |                                 |               |                                            |           |                    |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           |                                              |           |                                                           |           |                    | 71        | 91                              | 217           | 278                                        | 143       | 25                 | 31                                         | 44                              | 55                                   | 162                   | 207                                    | 5                                                                             | 7             | 7                                  | 8 | 1 | 3 | 1 | 1 | 1 | 1 | 4 | 6 | 1 | 3 | 3 | 6 | 1 | 3 | 3 | 2 |
| SHEET NO.                                | SPECIAL                                                                                                      |           | SPECIAL                                                                              |           |               | 611                                                                                                          |           | SPECIAL                                                                             |           | 611                                                        |           | 611                                          |           | 611                                                       |           | 611                |           | SPECIAL                         |               |                                            | 611       |                    | 611                                        |                                 | 611                                  |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                          | CITY OF COLUMBUS RECTANGULAR CATCH BASIN (AA-S135 WITH GRATE AA-S140)                                        |           | CITY OF COLUMBUS STANDARD CATCH BASIN (AA-S133A WITH GRATE AA-S141)                  |           |               | DRAINAGE STRUCTURE, MISC.: GATEWELL RECONSTRUCTED TO GRADE                                                   |           | CITY OF COLUMBUS 8" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |           | INLET NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1, AS PER PLAN |           | INLET NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D |           | INLET NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN |           | MANHOLE, NO. 3     |           | MANHOLE, NO. 3, AS PER PLAN     |               | CITY OF COLUMBUS MANHOLE, TYPE C (AA-S102) |           |                    | CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN |                                 | INLET ADJUSTED TO GRADE, AS PER PLAN |                       | MANHOLE ADJUSTED TO GRADE, AS PER PLAN |                                                                               |               | PRECAST REINFORCED CONCRETE OUTLET |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                          | EACH                                                                                                         |           | EACH                                                                                 |           |               | EACH                                                                                                         |           | FT                                                                                  |           | EACH                                                       |           | EACH                                         |           | EACH                                                      |           | EACH               |           | EACH                            |               |                                            | EACH      |                    | EACH                                       |                                 | EACH                                 |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                          | 05/NHS/OT/COL                                                                                                | 01/NHS/PV | 01/NHS/PV                                                                            | 01/NHS/PV | 01/NHS/PV     | 01/NHS/PV                                                                                                    | 01/NHS/PV | 01/NHS/PV                                                                           | 01/NHS/PV | 01/NHS/PV                                                  | 01/NHS/PV | 01/NHS/PV                                    | 01/NHS/PV | 01/NHS/PV                                                 | 01/NHS/PV | 01/NHS/PV          | 01/NHS/PV | 01/NHS/PV                       | 05/NHS/OT/COL | 01/NHS/PV                                  | 01/NHS/PV | 01/NHS/PV          | 01/NHS/PV                                  | 01/NHS/PV                       | 01/NHS/PV                            | 05/NHS/OT/COL         | 01/NHS/PV                              | 01/NHS/PV                                                                     |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 230                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     | 1         |                                                            | 1         | 2                                            | 2         |                                                           | 3         | 3                  |           | 1                               |               |                                            |           |                    |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 231                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           | 4                                                          | 4         | 2                                            | 2         |                                                           | 4         | 4                  | 2         | 2                               |               |                                            |           |                    |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 232                                      |                                                                                                              | 1         | 2                                                                                    | 2         |               |                                                                                                              |           |                                                                                     |           |                                                            | 1         |                                              |           |                                                           | 4         | 5                  | 1         | 2                               |               | 2                                          | 3         | 1                  |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 233                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           |                                              |           |                                                           | 1         | 2                  | 1         | 1                               |               | 1                                          | 2         |                    |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 234                                      |                                                                                                              |           |                                                                                      |           |               | 1                                                                                                            |           |                                                                                     |           |                                                            |           |                                              |           |                                                           |           |                    |           |                                 |               | 1                                          | 1         | 1                  | 1                                          | 2                               | 1                                    |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 245                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              | 32        | 41                                                                                  |           |                                                            |           |                                              |           |                                                           |           |                    |           |                                 |               |                                            |           |                    |                                            |                                 |                                      |                       |                                        |                                                                               |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 250                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           |                                              |           |                                                           |           |                    |           |                                 |               |                                            |           |                    |                                            |                                 |                                      |                       |                                        |                                                                               | 1             | 2                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 251                                      |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           |                                              |           |                                                           |           |                    |           |                                 |               |                                            |           |                    |                                            |                                 |                                      |                       |                                        | 1                                                                             |               |                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                                                                                                              |           |                                                                                      |           |               |                                                                                                              |           |                                                                                     |           |                                                            |           |                                              |           |                                                           |           |                    | 1         | 2                               | 2             | 1                                          | 32        | 41                 | 1                                          | 4                               | 6                                    | 4                     | 4                                      | 12                                                                            | 14            | 4                                  | 6 | 3 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 |   |   |   |

| NO. | DESCRIPTION         | REV. BY | DATE       |
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| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

CALCULATED CJC CHECKED CWL  
**DRAINAGE SUBSUMMARY**  
**FRA-70/71-12.68/14.86**  
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| SHEET NO.                                | SPECIAL                                                        |                                                   | 638                                              | 638                                                              | 638                                                              | SPECIAL                                       | 638                                                                    | 638                                                                                                     | SPECIAL                                       | SPECIAL                                           |                                                            | SPECIAL                                        | SPECIAL                                                   |                                | SPECIAL                                        |                                            | 638                                              |                                                            | SPECIAL                                            | SPECIAL                                            | SPECIAL                                             | SPECIAL                                             |
|------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------|--------------------------------|------------------------------------------------|--------------------------------------------|--------------------------------------------------|------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
|                                          | INCREASE OR DECREASE IN EXCAVATION AND BACKFILL (COLUMBUS 811) |                                                   | WATER WORK, MISC.: 1.5" WATER TAP (COLUMBUS 805) | WATER WORK, MISC.: 3" WATER SERVICE LINE TRANSFER (COLUMBUS 805) | WATER WORK, MISC.: 6" WATER SERVICE LINE TRANSFER (COLUMBUS 805) | 6" WATER MAIN DIP AND FITTINGS (COLUMBUS 801) | WATER WORK, MISC.: 20" x 6" TAPPING SLEEVE AND VALVE AND APPURTENANCES | WATER WORK, MISC.: 24" x 6" TAPPING SLEEVE AND VALVE AND APPURTENANCES                                  | 8" WATER MAIN DIP AND FITTINGS (COLUMBUS 801) | 8" GATE VALVE WITH VALVE BOX (COLUMBUS 802)       |                                                            | 12" WATER MAIN DIP AND FITTINGS (COLUMBUS 801) | 12" GATE VALVE WITH VALVE BOX (COLUMBUS 802)              |                                | 20" WATER MAIN DIP AND FITTINGS (COLUMBUS 801) |                                            | WATER WORK, MISC.: 1.5" CURB STOP (COLUMBUS 805) |                                                            | CUT AND PLUG EXISTING 6" WATER LINE (COLUMBUS 808) | CUT AND PLUG EXISTING 8" WATER LINE (COLUMBUS 808) | CUT AND PLUG EXISTING 10" WATER LINE (COLUMBUS 808) | CUT AND PLUG EXISTING 12" WATER LINE (COLUMBUS 808) |
|                                          | CY                                                             |                                                   | EACH                                             | EACH                                                             | EACH                                                             | FT                                            | EACH                                                                   | EACH                                                                                                    | FT                                            | EACH                                              |                                                            | FT                                             | EACH                                                      |                                | FT                                             |                                            | EACH                                             |                                                            | EACH                                               | EACH                                               | EACH                                                | EACH                                                |
|                                          | 01/NHS/PV                                                      |                                                   | 01/NHS/PV                                        | 01/NHS/PV                                                        | 01/NHS/PV                                                        | 01/NHS/PV                                     | 01/NHS/PV                                                              | 01/NHS/PV                                                                                               | 01/NHS/PV                                     | 01/NHS/PV                                         |                                                            | 01/NHS/PV                                      | 01/NHS/PV                                                 |                                | 01/NHS/PV                                      |                                            | 01/NHS/PV                                        |                                                            | 01/NHS/PV                                          | 01/NHS/PV                                          | 01/NHS/PV                                           | 01/NHS/PV                                           |
| 253                                      |                                                                |                                                   | 2                                                | 1                                                                | 1                                                                | 194                                           | 1                                                                      | 1                                                                                                       | 62                                            | 1                                                 |                                                            | 611                                            | 2                                                         |                                |                                                |                                            | 2                                                |                                                            |                                                    |                                                    |                                                     |                                                     |
| 254                                      |                                                                |                                                   |                                                  |                                                                  |                                                                  |                                               |                                                                        |                                                                                                         |                                               |                                                   |                                                            |                                                |                                                           |                                |                                                |                                            |                                                  |                                                            | 1                                                  | 4                                                  | 1                                                   | 2                                                   |
| 255                                      |                                                                |                                                   |                                                  |                                                                  |                                                                  | 110                                           |                                                                        |                                                                                                         |                                               |                                                   |                                                            |                                                |                                                           |                                | 4                                              |                                            |                                                  | 1                                                          |                                                    |                                                    |                                                     |                                                     |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                                                                | 40                                                | 2                                                | 1                                                                | 1                                                                | 304                                           | 1                                                                      | 1                                                                                                       | 62                                            | 1                                                 |                                                            | 611                                            | 2                                                         |                                | 4                                              |                                            | 2                                                |                                                            | 2                                                  | 4                                                  | 1                                                   | 2                                                   |
| SHEET NO.                                | SPECIAL                                                        | SPECIAL                                           | SPECIAL                                          | 638                                                              | 638                                                              | SPECIAL                                       | SPECIAL                                                                | SPECIAL                                                                                                 | SPECIAL                                       | 611                                               | 638                                                        | SPECIAL                                        | 638                                                       | 638                            |                                                |                                            | SPECIAL                                          | SPECIAL                                                    |                                                    | 611                                                |                                                     |                                                     |
|                                          | CUT AND PLUG EXISTING 20" WATER LINE (COLUMBUS 808)            | 20" BUTTERFLY VALVE WITH VALVE BOX (COLUMBUS 802) | 6" GATE VALVE WITH VALVE BOX (COLUMBUS 802)      | WATER WORK, MISC.: 6" WATER MAIN ABANDONED (COLUMBUS 808)        | WATER WORK, MISC.: 8" WATER MAIN ABANDONED (COLUMBUS 808)        | CITY OF COLUMBUS MANHOLE, TYPE C (44-S102)    | CITY OF COLUMBUS MANHOLE, TYPE C, AS PER PLAN (44-S102)                | CITY OF COLUMBUS 18" CONDUIT, C905 PIPE, WITH TYPE 1 BEDDING, WITH ITEM 912 COMPACTED GRANULAR MATERIAL | 6" FIRE HYDRANT (COLUMBUS 809)                | MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY) | WATER WORK, MISC.: 20" WATER MAIN ABANDONED (COLUMBUS 808) | FIRE HYDRANT ABANDONED (COLUMBUS 809)          | WATER WORK, MISC.: FIRE HYDRANT, RELOCATED (COLUMBUS 809) | FIRE HYDRANT ADJUSTED TO GRADE |                                                | VALVE BOX ADJUSTED TO GRADE (COLUMBUS 807) |                                                  | DUCTILE IRON FITTINGS, INCREASE OR DECREASE (COLUMBUS 801) |                                                    | MANHOLE ADJUSTED TO GRADE, AS PER PLAN             |                                                     |                                                     |
|                                          | EACH                                                           | EACH                                              | EACH                                             | EACH                                                             | EACH                                                             | EACH                                          | EACH                                                                   | EACH                                                                                                    | EACH                                          | 01/NHS/PV                                         | EACH                                                       | EACH                                           | EACH                                                      | EACH                           | EACH                                           | EACH                                       | LB                                               |                                                            | EACH                                               |                                                    |                                                     |                                                     |
|                                          | 01/NHS/PV                                                      | 01/NHS/PV                                         | 01/NHS/PV                                        | 01/NHS/PV                                                        | 01/NHS/PV                                                        | 01/NHS/PV                                     | 01/NHS/PV                                                              | 01/NHS/PV                                                                                               | 01/NHS/PV                                     | 01/NHS/PV                                         | 01/NHS/PV                                                  | 01/NHS/PV                                      | 01/NHS/PV                                                 | 01/NHS/PV                      | 05/NHS/OT /COL                                 |                                            | 01/NHS/PV                                        | 05/NHS/OT /COL                                             | 01/NHS/PV                                          |                                                    | 01/NHS/PV                                           |                                                     |
| 248                                      |                                                                |                                                   |                                                  |                                                                  |                                                                  | 3                                             | 1                                                                      | 204                                                                                                     | 2                                             |                                                   |                                                            |                                                |                                                           |                                |                                                |                                            |                                                  |                                                            |                                                    |                                                    |                                                     |                                                     |
| 253                                      |                                                                | 1                                                 | 1                                                |                                                                  |                                                                  |                                               |                                                                        |                                                                                                         | 3                                             |                                                   |                                                            |                                                | 1                                                         |                                |                                                |                                            |                                                  |                                                            |                                                    |                                                    |                                                     |                                                     |
| 254                                      |                                                                |                                                   |                                                  | 1                                                                | 2                                                                |                                               |                                                                        |                                                                                                         |                                               |                                                   |                                                            | 4                                              |                                                           |                                | 1                                              |                                            | 11                                               | 9                                                          |                                                    |                                                    |                                                     |                                                     |
| 255                                      | 1                                                              |                                                   | 1                                                | 1                                                                |                                                                  |                                               |                                                                        |                                                                                                         | 1                                             |                                                   | 1                                                          | 1                                              |                                                           | 1                              |                                                | 9                                          |                                                  |                                                            |                                                    | 1                                                  |                                                     |                                                     |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                                                                | 1                                                 | 1                                                | 2                                                                | 2                                                                | 3                                             | 1                                                                      | 204                                                                                                     | 4                                             | 2                                                 | 1                                                          | 5                                              | 1                                                         | 1                              | 1                                              | 20                                         | 9                                                | 500                                                        |                                                    | 1                                                  |                                                     |                                                     |

| NO. | DESCRIPTION         | REV. BY | DATE       |
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| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

**WATER WORK & SANITARY SEWER SUBSUMMARY**  
 CALCULATED JMB  
 CHECKED CWL  
**FRA - 70 / 71 - 12.68 / 14.86**  
 224  
 1815

| SHEET NO.                                | SPECIAL                         | SPECIAL                                    | SPECIAL                                                                                     |                                          | SPECIAL                                      | SPECIAL                 | SPECIAL                                      | SPECIAL                                 | SPECIAL                                                        | SPECIAL                                                                                | SPECIAL                                                                               | SPECIAL                                                        | SPECIAL                   | SPECIAL                                     | SPECIAL                                                                              | SPECIAL                                          | SPECIAL                                      | SPECIAL                                      | SPECIAL                         | SPECIAL                                                                              | SPECIAL                                                                                   | SPECIAL                                                                       | SPECIAL                             | SPECIAL                        |                                   |
|------------------------------------------|---------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|-------------------------|----------------------------------------------|-----------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------|---------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------|--------------------------------|-----------------------------------|
|                                          | HANDHOLE                        | SUBMERSIBLE SEPARABLE CONNECTOR            | (3) - 750KCMIL Cu, 15KV, XLP Ins. 133% w/ Cu TAPE SHIELD WITH (1)-350KCMIL Cu, 600V NEUTRAL |                                          | 2x1 CONCRETE DUCT BANK - 5" PVC (TDMIS-3000) | PADMOUNT SF6 SWITCHGEAR | 2x2 CONCRETE DUCT BANK - 5" PVC (TDMIS-3000) | BORE SPACERS FOR 6" SCH 40 PVC CONDUIT  | 75KVA LOOP FEED SINGLE PHASE PADMOUNT TRANSFORMER (TDMIS-1201) | 300KVA LOOP FEED THREE PHASE PADMOUNT TRANSFORMER, 14.4 KV, DELTA/208/120 (TDMIS-1202) | 750KVA LOOP FEED THREE PHASE PADMOUNT TRANSFORMER, 14.4KV, DELTA/480/277 (TDMIS-1202) | FIBERGLASS FLAT PAD FOR SINGLE PHASE TRANSFORMERS (TDMIS-1009) | 50/2 WOOD POLE            | THREE PHASE DEADEND ATTACHMENTS (TDMIS-406) | WOOD CROSSARM (TDMIS-10)                                                             | PRIMARY DOWN GUY (TDMIS-100)                     | DISTRIBUTION POLE GROUND (TDMIS-7)           | DISTRIBUTION RISER (TDMIS-1001)              | 11.25° SCH 40 PVC CONDUIT SWEEP | DOP MANHOLE (TDMIS-1015)                                                             | 4'x 4' x 4' PULLBOX                                                                       | BRIDGE MOUNTED CONDUIT HANGER                                                 | CABLE TRAY RISER                    | 22.5° SCH 40 PVC CONDUIT SWEEP | FIBERGLASS TO PVC CONDUIT COUPLER |
|                                          | EACH                            | EACH                                       | FT                                                                                          |                                          | FT                                           | EACH                    | FT                                           | EACH                                    | EACH                                                           | EACH                                                                                   | EACH                                                                                  | EACH                                                           | EACH                      | EACH                                        | EACH                                                                                 | EACH                                             | EACH                                         | EACH                                         | EACH                            | EACH                                                                                 | EACH                                                                                      | EACH                                                                          | EACH                                | EACH                           |                                   |
| 237                                      | 05/NHS/OT/COL                   | 05/NHS/OT/COL                              | 01/NHS/PV                                                                                   | 05/NHS/OT/COL                            | 05/NHS/OT/COL                                | 05/NHS/OT/COL           | 05/NHS/OT/COL                                | 01/NHS/PV                               | 05/NHS/OT/COL                                                  | 05/NHS/OT/COL                                                                          | 05/NHS/OT/COL                                                                         | 05/NHS/OT/COL                                                  | 01/NHS/PV                 | 01/NHS/PV                                   | 01/NHS/PV                                                                            | 01/NHS/PV                                        | 01/NHS/PV                                    | 01/NHS/PV                                    | 01/NHS/PV                       | 01/NHS/PV                                                                            | 05/NHS/OT/COL                                                                             | 01/NHS/PV                                                                     | 01/NHS/PV                           | 01/NHS/PV                      | 01/NHS/PV                         |
| 238                                      | 1                               | 1                                          | 1970                                                                                        | 238                                      | 262                                          |                         |                                              | 110                                     |                                                                |                                                                                        |                                                                                       | 1                                                              | 1                         | 1                                           | 2                                                                                    | 1                                                | 1                                            | 12                                           | 4                               |                                                                                      | 1                                                                                         | 65                                                                            | 1                                   | 6                              | 6                                 |
| 239                                      | 3                               | 6                                          | 1245                                                                                        | 165                                      | 1                                            | 721                     |                                              |                                         | 1                                                              | 1                                                                                      | 1                                                                                     | 1                                                              |                           |                                             |                                                                                      |                                                  |                                              |                                              | 5                               |                                                                                      |                                                                                           |                                                                               |                                     |                                |                                   |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                                 |                                            | 4                                                                                           | 7                                        | 2208                                         | 1245                    | 427                                          | 1                                       | 721                                                            | 110                                                                                    | 2                                                                                     | 1                                                              | 1                         | 2                                           | 1                                                                                    | 1                                                | 1                                            | 12                                           | 4                               | 5                                                                                    | 2                                                                                         | 65                                                                            | 1                                   | 6                              | 6                                 |
| SHEET NO.                                | SPECIAL                         | SPECIAL                                    | SPECIAL                                                                                     | SPECIAL                                  | SPECIAL                                      | SPECIAL                 | SPECIAL                                      | SPECIAL                                 | SPECIAL                                                        | SPECIAL                                                                                | SPECIAL                                                                               | SPECIAL                                                        | SPECIAL                   | SPECIAL                                     | SPECIAL                                                                              | SPECIAL                                          | SPECIAL                                      | SPECIAL                                      | SPECIAL                         | SPECIAL                                                                              | SPECIAL                                                                                   | SPECIAL                                                                       | SPECIAL                             | SPECIAL                        |                                   |
|                                          | WOOD POLE, REMOVAL (TDMIS-1600) | OVERHEAD TRANSFORMER, REMOVAL (TDMIS-1600) | WIRE AND CABLE REMOVAL (TDMIS 1600)                                                         | 6" FIBERGLASS CONDUIT EXPANSION FITTINGS | ADJUSTING EXISTING GRADE                     | 5" FIBERGLASS 90° SWEEP | EXISTING MANHOLE REMOVAL                     | MEDIUM VOLTAGE CABLE ACCEPTANCE TESTING | 5" SCH 40 PVC CONDUIT                                          | 6" SCH 40 PVC CONDUIT                                                                  | 30" DIRECTIONAL BORE AND PIPE, 748.06                                                 | 5" XHW FIBERGLASS CONDUIT                                      | 6" XHW FIBERGLASS CONDUIT | 4" SCH 40 PVC CONDUIT                       | (3)-350KCMIL Cu, 15KV, XLP Ins. 133% w/ Cu TAPE SHIELD WITH (1)-4/0 Cu, 600V NEUTRAL | (3)-#1 AL, 15KV, XLP WITH(1)-#2 AL, 600V NEUTRAL | 2x3 CONCRETE DUCT BANK - 6" PVC (TDMIS-3000) | 3x3 CONCRETE DUCT BANK - 5" PVC (TDMIS-3000) | PADMOUNT TRANSFORMER RELOCATION | (1)-250KCMIL Cu, 15KV, XLP Ins. 133% w/ Cu TAPE SHIELD WITH (1)-1/0 Cu, 600V NEUTRAL | (3)-500KCMIL Cu, 15KV, XLP Ins. 133% w/ Cu TAPE SHIELD WITH (1)-350KCMIL Cu, 600V NEUTRAL | (3)-#1 Cu, 15KV, XLP Ins. 133% w/ Cu TAPE SHIELD WITH (1)-#1 Cu, 600V NEUTRAL | (2) - #2 AL, 15KV XLP, 133% INS JCN |                                |                                   |
|                                          | EACH                            | EACH                                       | FT                                                                                          | EACH                                     | EACH                                         | EACH                    | EACH                                         | EACH                                    | FT                                                             | FT                                                                                     | FT                                                                                    | FT                                                             | FT                        | FT                                          | FT                                                                                   | FT                                               | FT                                           | FT                                           | EACH                            | FT                                                                                   | FT                                                                                        | FT                                                                            | FT                                  | FT                             |                                   |
| 237                                      | 05/NHS/OT/COL                   | 05/NHS/OT/COL                              | 05/NHS/OT/COL                                                                               | 01/NHS/PV                                | 01/NHS/PV                                    | 01/NHS/PV               | 01/NHS/PV                                    | 05/NHS/OT/COL                           | 01/NHS/PV                                                      | 01/NHS/PV                                                                              | 01/NHS/PV                                                                             | 01/NHS/PV                                                      | 01/NHS/PV                 | 01/NHS/PV                                   | 01/NHS/PV                                                                            | 01/NHS/PV                                        | 01/NHS/PV                                    | 05/NHS/OT/COL                                | 01/NHS/PV                       | 05/NHS/OT/COL                                                                        | 05/NHS/OT/COL                                                                             | 05/NHS/OT/COL                                                                 | 05/NHS/OT/COL                       |                                |                                   |
| 238                                      | 5                               |                                            |                                                                                             | 11                                       | 3                                            | 12                      | 1                                            |                                         | 84                                                             |                                                                                        | 5254                                                                                  | 551                                                            | 777                       | 6210                                        | 347                                                                                  | 1407                                             | 420                                          | 238                                          | 196                             |                                                                                      | 2                                                                                         | 282                                                                           |                                     |                                |                                   |
| 239                                      | 7                               | 11                                         | 7400                                                                                        |                                          | 1                                            |                         |                                              | 12                                      |                                                                |                                                                                        |                                                                                       |                                                                |                           |                                             |                                                                                      |                                                  |                                              | 475                                          |                                 |                                                                                      | 1245                                                                                      | 1317                                                                          | 125                                 |                                |                                   |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                                 |                                            | 12                                                                                          | 11                                       | 7400                                         | 11                      | 4                                            | 12                                      | 84                                                             | 5254                                                                                   | 551                                                                                   | 777                                                            | 6210                      | 347                                         | 1407                                                                                 | 420                                              | 238                                          | 196                                          | 475                             | 2                                                                                    | 282                                                                                       | 1245                                                                          | 1317                                | 125                            |                                   |

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| <b>ELECTRICAL SUBSUMMARY</b>         |         |     |
| <b>FRA - 70 / 71 - 12.68 / 14.86</b> |         |     |
| (225 / 1815)                         |         |     |

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| SHEET NO.                                | 255                                                            | 255                        |  | SPECIAL           | SPECIAL                 | SPECIAL                 | SPECIAL                 | SPECIAL                 | SPECIAL                              |    |      |   |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------|----------------------------------------------------------------|----------------------------|--|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------------------|----|------|---|--|--|--|--|--|--|--|--|--|--|
|                                          | FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS OC FS | FULL DEPTH PAVEMENT SAWING |  | 4" CONDUIT RISER  | CONDUIT ENCASED, 1 - 4" | CONDUIT ENCASED, 2 - 4" | CONDUIT ENCASED, 6 - 4" | CONDUIT ENCASED, 8 - 4" | PRIVATE TELECOM MANHOLE, AS PER PLAN |    |      |   |  |  |  |  |  |  |  |  |  |  |
|                                          | SY                                                             | FT                         |  | EACH              | FT                      | FT                      | FT                      | FT                      | EACH                                 |    |      |   |  |  |  |  |  |  |  |  |  |  |
|                                          | 05/NHS/<br>OT/COL                                              | 05/NHS/<br>OT/COL          |  | 05/NHS/<br>OT/COL | 05/NHS/<br>OT/COL       | 05/NHS/<br>OT/COL       | 05/NHS/<br>OT/COL       | 05/NHS/<br>OT/COL       | 05/NHS/<br>OT/COL                    |    |      |   |  |  |  |  |  |  |  |  |  |  |
| 239                                      | 86                                                             | 276                        |  |                   |                         |                         |                         |                         |                                      |    |      |   |  |  |  |  |  |  |  |  |  |  |
| 249                                      | 95                                                             | 564                        |  | 4                 | 204                     | 122                     | 26                      | 1117                    | 2                                    |    |      |   |  |  |  |  |  |  |  |  |  |  |
| <b>TOTALS CARRIED TO GENERAL SUMMARY</b> |                                                                |                            |  | 181               | 840                     |                         | 4                       | 204                     | 122                                  | 26 | 1117 | 2 |  |  |  |  |  |  |  |  |  |  |
| SHEET NO.                                |                                                                |                            |  |                   |                         |                         |                         |                         |                                      |    |      |   |  |  |  |  |  |  |  |  |  |  |

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

**TOTALS CARRIED TO GENERAL SUMMARY**

|                                     |
|-------------------------------------|
| CALCULATED<br>CJC<br>CHECKED<br>ATR |
| TELECOM SUBSUMMARY                  |
| FRA -70/ 71-12.68 / 14.86           |
| 225A<br>1815                        |

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| SHEET NO.                             | STATION TO STATION |            | 203              | 203              | 203                                  | 203                                  | 204                                | 204                             | 203                       | 203                                       | 659                                | 659                        | 659                              | 659                                                 | 659                                | 659                                                                      | 659                         | 659                                                                | CALCULATED<br>ATR<br>CHECKED<br>CWL |
|---------------------------------------|--------------------|------------|------------------|------------------|--------------------------------------|--------------------------------------|------------------------------------|---------------------------------|---------------------------|-------------------------------------------|------------------------------------|----------------------------|----------------------------------|-----------------------------------------------------|------------------------------------|--------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------|-------------------------------------|
|                                       |                    |            | EXCAVATION<br>CY | EMBANKMENT<br>CY | EMBANKMENT,<br>AS PER PLAN "A"<br>CY | EMBANKMENT,<br>AS PER PLAN "B"<br>CY | GRANULAR MATERIAL,<br>TYPE B<br>CY | EXCAVATION OF<br>SUBGRADE<br>CY | GRANULAR EMBANKMENT<br>CY | GRANULAR EMBANKMENT,<br>AS PER PLAN<br>CY | SEEDING AND MULCHING<br>(SM)<br>SY | SOIL ANALYSIS TEST<br>EACH | TOPSOIL<br>(111*(SM)/1000)<br>CY | REPAIR SEEDING AND<br>MULCHING<br>(0.05*(SM))<br>SY | INTER-SEEDING<br>(0.05*(SM))<br>SY | COMM. FERTILIZER<br>[(30*(SM))+<br>(20*.05*(SM))]*9<br>/1000*2000<br>TON | LIME<br>(SM)/(4840)<br>ACRE | WATER<br>[(2*300*(SM))<br>+(300*.05*(SM))]*9<br>/1000*1000<br>MGAL |                                     |
| EB I-70                               |                    |            |                  |                  |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 384                                   | 125+96.00          | 126+50.00  | 162              | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 385                                   | 126+97.68          | 127+96.26  | 209              | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 386                                   | 128+26.26          | 129+00.00  | 198              | 3                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 387                                   | 129+50.00          | 130+50.00  | 92               | 6                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 388                                   | 131+00.00          | 132+00.00  | 55               | 29               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 389                                   | 132+41.81          | 133+00.00  | 47               | 36               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 390                                   | 133+50.00          | 134+05.00  | 60               | 9                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 391                                   | 4158+00.00         | 4159+00.00 | 1575             | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 392                                   | 4159+50.00         | 4151+00.00 | 507              | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 393                                   | 4161+50.00         | 4162+50.00 | 237              | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 394                                   | 4163+00.00         | 4164+00.00 | 203              | 16               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 395                                   | 4164+50.00         | 4165+50.00 | 193              | 43               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 396                                   | 4166+00.00         | 4170+00.00 | 199              | 0                |                                      |                                      |                                    |                                 | 874                       |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 397                                   | 4170+50.00         | 4171+00.00 | 689              | 0                |                                      |                                      |                                    |                                 | 4184                      |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 398                                   | 4171+50.00         | 4172+00.00 | 446              | 0                |                                      |                                      |                                    |                                 | 5770                      |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 399                                   | 4172+50.00         | 4173+00.00 | 441              | 0                |                                      |                                      |                                    |                                 | 7432                      |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 400                                   | 4173+50.00         | 4174+00.00 | 290              | 0                |                                      |                                      |                                    |                                 | 8653                      |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 401                                   | 4174+50.00         | 4175+00.00 | 58               | 0                | 0                                    |                                      |                                    |                                 | 8810                      | 2007                                      |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 402                                   | 4175+63.96         | 4175+93.88 | 0                | 0                | 0                                    |                                      |                                    |                                 |                           | 3113                                      |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 403                                   | 4176+87.27         | 4177+17.18 | 0                | 109              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 404                                   | 4177+50.00         | 4177+77.84 | 0                | 131              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 405                                   | 4178+00.00         | 4178+50.00 | 0                | 908              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 406                                   | 4179+00.00         | 4180+00.00 | 0                | 538              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 407                                   | 4180+50.00         | 4181+50.00 | 1310             | 403              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 408                                   | 4182+00.00         | 4183+50.00 | 4289             | 332              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 409                                   | 4184+00.00         | 4185+50.00 | 3308             | 6                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 410                                   | 4186+00.00         | 4187+00.00 | 2582             | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 411                                   | 4187+50.00         | 4188+50.00 | 1399             | 8                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 412                                   | 4189+00.00         | 4190+00.00 | 199              | 8                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 413                                   | 4190+50.00         | 4191+50.00 | 264              | 27               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 414                                   | 4192+00.00         | 4193+00.00 | 219              | 86               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 415                                   | 4193+45.18         | 4194+50.00 | 622              | 100              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 416                                   | 4195+00.00         | 4196+50.00 | 563              | 126              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 417                                   | 4196+99.64         | 4198+00.00 | 114              | 11               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 418                                   | 4198+50.00         | 4200+00.00 | 113              | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 419                                   | 4200+50.00         | 4202+00.00 | 175              | 9                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 420                                   | 4202+50.00         | 4204+00.00 | 197              | 8                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 421                                   | 4204+50.00         | 4205+50.00 | 88               | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 422                                   | 4206+00.00         | 4207+50.00 | 60               | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 423                                   | 4208+00.00         | 4208+14.77 | 4                | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| WB I-70                               |                    |            |                  |                  |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 424                                   | 160+50.00          | 161+50.00  | 2978             | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 425                                   | 162+00.00          | 183+00.00  | 893              | 24               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 426                                   | 183+50.00          | 185+00.00  | 55               | 649              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 427                                   | 185+50.00          | 186+50.00  | 1316             | 540              |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 428                                   | 187+00.00          | 188+00.00  | 1803             | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 429                                   | 188+50.00          | 189+00.00  | 0                | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| NB I-71                               |                    |            |                  |                  |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 430                                   | 252+50.00          | 253+50.00  | 340              |                  |                                      | 14                                   |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 431                                   | 254+00.00          | 255+00.00  | 586              | 50               |                                      | 30                                   |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 432                                   | 255+50.00          | 257+00.00  | 761              | 177              |                                      | 43                                   |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 433                                   | 257+50.00          | 258+50.00  | 494              | 0                |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 434                                   | 259+00.00          | 260+00.00  | 418              | 78               |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 435                                   | 260+50.00          | 262+00.00  | 79               | 2710             |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 436                                   | 262+50.00          | 264+00.00  | 65               | 7596             |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 437                                   | 264+34.96          | 265+00.00  | 0                | 5907             |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 438                                   | 265+50.00          | 266+34.96  | 60               | 7106             |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 439                                   | 266+50.00          | 267+50.00  | 0                | 10836            |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| 440                                   | 268+00.00          | 269+00.00  | 1658             | 5273             |                                      |                                      |                                    |                                 |                           |                                           |                                    |                            |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |
| <b>SUBTOTALS CARRIED TO SHEET 229</b> |                    |            | 32673            | 43898            |                                      | 87                                   |                                    |                                 | 35723                     | 5120                                      |                                    | 19360                      |                                  |                                                     |                                    |                                                                          |                             |                                                                    |                                     |

|     |                   |      |    |            |
|-----|-------------------|------|----|------------|
| NO. | DESCRIPTION       | REV. | BY | DATE       |
| 4   | UPDATED EARTHWORK |      |    | 11-29-2021 |

EARTHWORK SUBSUMMARY AND CALCULATIONS

FRA - 70 / 71-12.68 / 14.86



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| SHEET NO.                             | STATION TO STATION |            | 203        | 203        | 203                         | 203                         | 204                       | 204                    | 203                 | 203                              | 659                       | 659                | 659                     | 659                                     | 659                       | 659                                                         | 659              | 659                                                   |
|---------------------------------------|--------------------|------------|------------|------------|-----------------------------|-----------------------------|---------------------------|------------------------|---------------------|----------------------------------|---------------------------|--------------------|-------------------------|-----------------------------------------|---------------------------|-------------------------------------------------------------|------------------|-------------------------------------------------------|
|                                       |                    |            | EXCAVATION | EMBANKMENT | EMBANKMENT, AS PER PLAN "A" | EMBANKMENT, AS PER PLAN "B" | GRANULAR MATERIAL, TYPE B | EXCAVATION OF SUBGRADE | GRANULAR EMBANKMENT | GRANULAR EMBANKMENT, AS PER PLAN | SEEDING AND MULCHING (SM) | SOIL ANALYSIS TEST | TOPSOIL (111*(SM)/1000) | REPAIR SEEDING AND MULCHING (0.05*(SM)) | INTER-SEEDING (0.05*(SM)) | COMM. FERTILIZER [(30*(SM))+ (20*.05*(SM))*9 / (1000*2000)] | LIME (SM)/(4840) | WATER [(2*300*(SM)) + (300*.05*(SM))*9 / (1000*1000)] |
|                                       |                    |            | CY         | CY         | CY                          | CY                          | CY                        | CY                     | CY                  | CY                               | SY                        | EACH               | CY                      | SY                                      | SY                        | TON                                                         | ACRE             | MGAL                                                  |
| NB I-71                               |                    |            |            |            |                             |                             |                           |                        |                     |                                  |                           |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 441                                   | 269+50.00          | 270+50.00  | 1325       | 830        |                             |                             |                           |                        |                     |                                  | 1870                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 442                                   | 271+00.00          | 271+50.00  | 455        | 136        |                             |                             |                           |                        |                     |                                  | 1091                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 443                                   | 272+00.00          | 272+50.00  | 276        | 48         |                             |                             |                           |                        |                     |                                  | 510                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 444                                   | 273+00.00          | 273+64.54  | 115        | 1          |                             |                             |                           |                        |                     |                                  | 115                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| RAMP A5                               |                    |            |            |            |                             |                             |                           |                        |                     |                                  |                           |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 445                                   | 5003+23.96         | 5004+00.00 | 439        | 3          |                             |                             |                           |                        |                     |                                  | 0                         |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 446                                   | 5004+50.00         | 5005+50.00 | 776        | 139        |                             |                             |                           |                        |                     |                                  | 139                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 447                                   | 5006+00.00         | 5007+00.00 | 1170       | 44         |                             |                             |                           |                        |                     |                                  | 508                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 448                                   | 5007+50.00         | 5008+00.00 | 1177       | 242        |                             |                             |                           |                        |                     |                                  | 574                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 449                                   | 5008+50.00         | 5009+50.00 | 62         | 2737       |                             |                             |                           |                        |                     |                                  | 781                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 450                                   | 5010+00.00         | 5011+00.00 | 66         | 7602       |                             |                             |                           |                        |                     |                                  | 1191                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 451                                   | 5011+50.00         | 5012+18.10 | 647        | 7506       |                             |                             |                           |                        |                     |                                  | 1058                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 452                                   | 5012+50.00         | 5013+00.00 | 41         | 9024       | 1591                        |                             |                           |                        |                     |                                  | 1356                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 453                                   | 5013+50.00         | 5014+00.00 | 44         |            | 10620                       |                             |                           |                        |                     |                                  | 1467                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 454                                   | 5014+50.00         | 5015+00.00 | 18         |            | 4574                        |                             |                           |                        |                     |                                  | 735                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 455                                   | 5015+06.59         | 5015+36.59 | 13         |            | 681                         |                             |                           |                        |                     |                                  | 293                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| RAMP C3                               |                    |            |            |            |                             |                             |                           |                        |                     |                                  |                           |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 456                                   | 3000+16.87         | 3001+00.00 | 0          | 88         |                             |                             |                           |                        |                     |                                  | 0                         |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 457                                   | 3001+50.00         | 3002+50.00 | 7          | 100        |                             |                             |                           |                        |                     |                                  | 75                        |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 458                                   | 3003+00.00         | 3004+00.00 | 3          | 533        |                             |                             |                           |                        |                     |                                  | 108                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 459                                   | 3004+50.00         | 3005+50.00 | 13         | 991        |                             |                             |                           |                        |                     |                                  | 627                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 460                                   | 3006+00.00         | 3007+00.00 | 27         | 179        |                             |                             |                           |                        |                     |                                  | 470                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 461                                   | 3007+50.00         | 3008+50.00 | 111        | 14         |                             |                             |                           |                        |                     |                                  | 213                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 462                                   | 3009+00.00         | 3010+00.00 | 0          | 0          |                             |                             |                           |                        |                     |                                  | 0                         |                    |                         |                                         |                           |                                                             |                  |                                                       |
| RAMP C5                               |                    |            |            |            |                             |                             |                           |                        |                     |                                  |                           |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 463                                   | 5024+38.21         | 5026+00.00 | 169        | 4          |                             |                             |                           |                        |                     |                                  | 173                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 464                                   | 5026+50.00         | 5028+00.00 | 196        | 439        |                             |                             |                           |                        |                     |                                  | 694                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 465                                   | 5028+50.00         | 5030+00.00 | 269        | 1627       |                             |                             |                           |                        |                     |                                  | 1142                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 466                                   | 5030+50.00         | 5031+36.49 | 156        | 2087       |                             |                             |                           |                        |                     |                                  | 711                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 467                                   | 5031+66.55         | 5032+65.33 | 58         | 249        |                             |                             |                           |                        |                     |                                  | 8                         |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 468                                   | 5033+00.00         | 5033+50.00 | 61         | 311        |                             |                             |                           |                        |                     |                                  | 72                        |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 469                                   | 5034+00.00         | 5034+83.94 | 26         | 455        |                             |                             |                           |                        |                     |                                  | 149                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 470                                   | 5034+97.48         | 5035+50.00 | 2          | 744        |                             |                             |                           |                        |                     |                                  | 241                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 471                                   | 5036+00.00         | 5036+50.00 | 33         | 911        |                             |                             |                           |                        |                     |                                  | 197                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 472                                   | 5037+00.00         | 5038+00.00 | 32         | 799        |                             |                             |                           |                        |                     |                                  | 314                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 473                                   | 5038+50.00         | 5039+50.00 | 18         | 279        | 703                         |                             |                           |                        |                     |                                  | 686                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 474                                   | 5040+00.00         | 5041+17.78 | 62         |            | 6025                        |                             |                           |                        |                     |                                  | 1466                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 475                                   | 5041+50.00         | 5042+00.00 | 132        | 2060       | 2950                        |                             |                           |                        |                     |                                  | 1317                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 476                                   | 5042+50.00         | 5047+55.00 | 1371       | 86         |                             |                             |                           |                        |                     |                                  | 567                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 477                                   | 5061+83.35         | 5047+72.06 | 2804       | 0          |                             |                             |                           |                        |                     |                                  | 598                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 478                                   | 5062+50.00         | 5063+50.00 | 5864       | 670        |                             |                             |                           |                        |                     |                                  | 1092                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 479                                   | 5064+00.00         | 5065+00.00 | 881        | 3615       |                             |                             |                           |                        |                     |                                  | 997                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 480                                   | 5065+50.00         | 5066+50.00 | 63         | 6681       |                             |                             |                           |                        |                     |                                  | 1333                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 481                                   | 5067+00.00         | 5068+00.00 | 58         | 11034      |                             |                             |                           |                        |                     |                                  | 1714                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 482                                   | 5068+50.00         | 5069+00.00 | 27         | 9070       | 167                         |                             |                           |                        |                     |                                  | 1192                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 483                                   | 5069+50.00         | 5070+00.00 | 13         |            | 9977                        |                             |                           |                        |                     |                                  | 1112                      |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 484                                   | 5070+50.00         | 5071+00.00 | 0          |            | 6409                        |                             |                           |                        |                     |                                  | 696                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 485                                   | 5071+18.62         | 5074+10.30 | 99         |            | 1258                        |                             |                           |                        |                     | 633                              | 267                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 486                                   | 5074+40.30         | 5074+50.00 | 280        |            | 0                           |                             |                           |                        |                     | 1612                             | 0                         |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 487                                   | 5075+00.00         | 5075+50.00 | 170        | 2          | 0                           |                             |                           |                        |                     | 973                              | 84                        |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 488                                   | 5076+00.00         | 5076+08.84 | 66         | 0          | 0                           |                             |                           |                        | 386                 | 103                              | 84                        |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 489                                   | 5076+50.00         | 5077+00.00 | 93         | 17         |                             |                             |                           |                        | 909                 |                                  | 253                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 490                                   | 5077+50.00         | 5078+00.00 | 68         | 49         |                             |                             |                           |                        | 897                 |                                  | 217                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 491                                   | 5078+50.00         | 5079+00.00 | 53         | 24         |                             |                             |                           |                        | 473                 |                                  | 119                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 492                                   | 5079+12.85         | 5079+50.00 | 61         | 13         | 0                           |                             |                           |                        | 555                 | 32                               | 107                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 493                                   | 5080+00.00         | 5080+15.86 | 52         | 5          |                             |                             |                           |                        |                     |                                  | 97                        |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 494                                   | 5080+45.86         | 5081+38.82 | 0          | 11         |                             |                             |                           |                        |                     |                                  | 67                        |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 495                                   | 5081+68.82         | 5081+98.63 | 0          | 9          |                             |                             |                           |                        |                     |                                  | 71                        |                    |                         |                                         |                           |                                                             |                  |                                                       |
| 496                                   | 5082+00.00         | 5082+50.00 | 0          | 6          |                             |                             |                           |                        |                     |                                  | 158                       |                    |                         |                                         |                           |                                                             |                  |                                                       |
| <b>SUBTOTALS CARRIED TO SHEET 229</b> |                    |            | 20022      | 71474      | 44955                       |                             |                           |                        | 3220                | 3353                             | 31176                     |                    |                         |                                         |                           |                                                             |                  |                                                       |

|     |                   |         |            |
|-----|-------------------|---------|------------|
| NO. | DESCRIPTION       | REV. BY | DATE       |
| 4   | UPDATED EARTHWORK | CWL     | 11-29-2021 |

**EARTHWORK SUBSUMMARY AND CALCULATIONS**

**FRA - 70 / 71 - 12.68 / 14.86**

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| SHEET NO.                             | STATION TO STATION |            | 203              | 203              | 203                                  | 203                                  | 204                                | 204                          | 659                                | 659                        | 659                                | 659                                                 | 659                                | 659                                                                        | 659                         |
|---------------------------------------|--------------------|------------|------------------|------------------|--------------------------------------|--------------------------------------|------------------------------------|------------------------------|------------------------------------|----------------------------|------------------------------------|-----------------------------------------------------|------------------------------------|----------------------------------------------------------------------------|-----------------------------|
|                                       |                    |            | EXCAVATION<br>CY | EMBANKMENT<br>CY | EMBANKMENT,<br>AS PER PLAN "A"<br>CY | EMBANKMENT,<br>AS PER PLAN "B"<br>CY | GRANULAR MATERIAL,<br>TYPE B<br>CY | EXCAVATION OF SUBGRADE<br>CY | SEEDING AND MULCHING<br>(SM)<br>SY | SOIL ANALYSIS TEST<br>EACH | TOPSOIL<br>(111*(SM))/(1000)<br>CY | REPAIR SEEDING AND<br>MULCHING<br>(0.05*(SM))<br>SY | INTER-SEEDING<br>(0.05*(SM))<br>SY | COMM. FERTILIZER<br>[(30*(SM))+<br>(20*.05*(SM))]*9<br>/(1000*2000)<br>TON | LIME<br>(SM)/(4840)<br>ACRE |
| RAMP C5                               |                    |            |                  |                  |                                      |                                      |                                    |                              |                                    |                            |                                    |                                                     |                                    |                                                                            |                             |
| 497                                   | 5083+00.00         | 5083+50.00 | 0                | 4                |                                      |                                      |                                    |                              | 172                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 498                                   | 5084+00.00         | 5084+20.00 | 0                | 3                |                                      |                                      |                                    |                              | 58                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 499                                   | 5084+50.00         | 5085+00.00 | 0                | 650              |                                      |                                      |                                    |                              | 50                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 500                                   | 5085+50.00         | 5086+00.00 | 0                | 310              |                                      |                                      |                                    |                              | 8                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| FRONT ST.                             |                    |            |                  |                  |                                      |                                      |                                    |                              |                                    |                            |                                    |                                                     |                                    |                                                                            |                             |
| 501                                   | 147+50.00          | 147+91.50  | 26               | 3                |                                      |                                      | 46                                 | 46                           | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 502                                   | 148+00.00          | 148+50.00  | 57               | 14               |                                      |                                      | 144                                | 144                          | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 503                                   | 148+61.92          | 150+88.81  | 139              | 25               |                                      |                                      | 240                                | 240                          | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 504                                   | 151+19.35          | 151+50.00  | 94               | 55               |                                      |                                      | 193                                | 193                          | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 505                                   | 152+00.00          | 152+50.00  | 68               | 5                |                                      |                                      | 112                                | 112                          | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| FULTON ST.                            |                    |            |                  |                  |                                      |                                      |                                    |                              |                                    |                            |                                    |                                                     |                                    |                                                                            |                             |
| 506                                   | 19+25.00           | 19+50.00   | 0                | 0                |                                      |                                      |                                    |                              | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 507                                   | 19+87.23           | 20+00.00   | 123              | 4                |                                      |                                      | 104                                | 104                          | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 508                                   | 20+20.46           | 20+50.00   | 88               | 2                |                                      |                                      | 94                                 | 94                           | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 509                                   | 20+55.92           | 21+00.00   | 84               | 3                |                                      |                                      | 98                                 | 98                           | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 510                                   | 21+24.00           | 21+50.00   | 83               | 52               |                                      |                                      | 104                                | 104                          | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 511                                   | 22+00.00           |            | 73               | 108              |                                      |                                      | 108                                | 108                          | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 512                                   | 22+50.00           |            | 67               | 61               |                                      |                                      | 107                                | 107                          | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 513                                   | 23+00.00           | 23+15.00   | 18               | 1                |                                      |                                      | 30                                 | 30                           | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| LIVINGSTON AVE.                       |                    |            |                  |                  |                                      |                                      |                                    |                              |                                    |                            |                                    |                                                     |                                    |                                                                            |                             |
| 514                                   | 200+00.00          | 200+50.00  | 50               | 28               |                                      |                                      | 84                                 | 84                           | 52                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 515                                   | 201+00.00          | 201+94.78  | 51               | 57               |                                      |                                      | 108                                | 108                          | 98                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 516                                   | 202+00.00          | 202+45.02  | 22               | 16               |                                      |                                      | 44                                 | 44                           | 32                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 517                                   | 204+02.13          | 204+50.00  | 78               | 4                |                                      |                                      | 111                                | 111                          | 58                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 518                                   | 204+61.50          | 205+00.00  | 55               | 31               |                                      |                                      | 63                                 | 63                           | 22                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 519                                   | 205+50.00          | 206+00.00  | 97               | 179              |                                      |                                      | 140                                | 140                          | 23                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 520                                   | 206+50.00          | 206+80.00  | 41               | 129              |                                      |                                      | 83                                 | 83                           | 48                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 521                                   | 207+00.00          | 207+47.00  | 45               | 65               |                                      |                                      | 73                                 | 73                           | 31                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 522                                   | 207+50.00          |            | 0                | 0                |                                      |                                      | 0                                  | 0                            | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| RELOCATED BIKE PATH                   |                    |            |                  |                  |                                      |                                      |                                    |                              |                                    |                            |                                    |                                                     |                                    |                                                                            |                             |
| 630                                   | 8+48.00            | 8+50.00    | 54               | 6                |                                      |                                      |                                    |                              | 79                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 631                                   | 9+00.00            | 9+50.00    | 1198             | 1                |                                      |                                      |                                    |                              | 422                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 632                                   | 10+00.00           | 10+50.00   | 1387             | 0                |                                      |                                      |                                    |                              | 53                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 633                                   | 10+66.95           | 11+00.00   | 262              | 2                |                                      |                                      |                                    |                              | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 634                                   | 11+00.40           | 11+29.28   | 13               | 3                |                                      |                                      |                                    |                              | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| 635                                   | 11+50.00           | 11+53.75   | 1                | 0                |                                      |                                      |                                    |                              | 0                                  |                            |                                    |                                                     |                                    |                                                                            |                             |
| BIKE PATH DETOUR                      |                    |            |                  |                  |                                      |                                      |                                    |                              |                                    |                            |                                    |                                                     |                                    |                                                                            |                             |
| 639                                   | 1+50.00            | 2+50.00    | 32               | 3                |                                      |                                      |                                    |                              | 120                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 640                                   | 3+00.00            | 3+50.00    | 126              | 15               |                                      |                                      |                                    |                              | 256                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 641                                   | 4+00.00            | 4+50.00    | 120              | 1                |                                      |                                      |                                    |                              | 164                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 642                                   | 5+00.00            | 5+50.00    | 27               | 3                |                                      |                                      |                                    |                              | 83                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643                                   | 6+00.00            | 6+50.00    | 47               | 8                |                                      |                                      |                                    |                              | 139                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643A                                  | 7+00.00            | 8+00.00    | 63               | 15               |                                      |                                      |                                    |                              | 206                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643B                                  | 8+50.00            | 9+00.00    | 31               | 6                |                                      |                                      |                                    |                              | 97                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643C                                  | 9+50.00            | 10+00.00   | 28               | 6                |                                      |                                      |                                    |                              | 97                                 |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643D                                  | 10+50.00           | 11+00.00   | 41               | 27               |                                      |                                      |                                    |                              | 208                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643E                                  | 11+50.00           | 12+00.00   | 35               | 44               |                                      |                                      |                                    |                              | 222                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643F                                  | 12+50.00           | 13+00.00   | 36               | 25               |                                      |                                      |                                    |                              | 183                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643G                                  | 13+50.00           | 14+50.00   | 51               | 5                |                                      |                                      |                                    |                              | 123                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643H                                  | 15+00.00           | 16+00.00   | 56               | 6                |                                      |                                      |                                    |                              | 142                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643J                                  | 16+50.00           | 17+50.00   | 55               | 4                |                                      |                                      |                                    |                              | 228                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643K                                  | 18+00.00           | 18+50.00   | 30               | 2                |                                      |                                      |                                    |                              | 113                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| 643L                                  | 19+00.00           | 19+50.00   | 24               | 195              |                                      |                                      |                                    |                              | 300                                |                            |                                    |                                                     |                                    |                                                                            |                             |
| <b>SUBTOTALS CARRIED TO SHEET 229</b> |                    |            | 5076             | 2186             |                                      |                                      | 2086                               | 2086                         | 3887                               |                            |                                    |                                                     |                                    |                                                                            |                             |

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | UPDATED EARTHWORK | CWL     | 11-29-2021 |

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|----------------------------------------------|-----|---------|-------------|
| CALCULATED                                   | ATR | CHECKED | CWL         |
| <b>EARTHWORK SUBSUMMARY AND CALCULATIONS</b> |     |         |             |
| <b>FRA - 70 / 71 - 12.68 / 14.86</b>         |     |         |             |
|                                              |     |         | 228<br>1815 |

| SHEET NO.                                                                                      | STATION TO STATION |          | 203        | 203        | 203                         | 203                         | 204                       | 204                    | 203                 | 203                              | 659                       | 659                | 659                       | 659                                     | 659                       | 659                                                         | 659              |                                                       |       |     |
|------------------------------------------------------------------------------------------------|--------------------|----------|------------|------------|-----------------------------|-----------------------------|---------------------------|------------------------|---------------------|----------------------------------|---------------------------|--------------------|---------------------------|-----------------------------------------|---------------------------|-------------------------------------------------------------|------------------|-------------------------------------------------------|-------|-----|
|                                                                                                |                    |          | EXCAVATION | EMBANKMENT | EMBANKMENT, AS PER PLAN "A" | EMBANKMENT, AS PER PLAN "B" | GRANULAR MATERIAL, TYPE B | EXCAVATION OF SUBGRADE | GRANULAR EMBANKMENT | GRANULAR EMBANKMENT, AS PER PLAN | SEEDING AND MULCHING (SM) | SOIL ANALYSIS TEST | TOPSOIL (111*(SM))/(1000) | REPAIR SEEDING AND MULCHING (0.05*(SM)) | INTER-SEEDING (0.05*(SM)) | COMM. FERTILIZER [(30*(SM))+ (20*.05*(SM))]*9 / (1000*2000) | LIME (SM)/(4840) | WATER [(2*300*(SM)) + (300*.05*(SM))]*9 / (1000*1000) |       |     |
|                                                                                                |                    |          | CY         | CY         | CY                          | CY                          | CY                        | CY                     | CY                  | CY                               | SY                        | EACH               | CY                        | SY                                      | SY                        | TON                                                         | ACRE             | MGAL                                                  |       |     |
| <i>BIKE PATH DETOUR</i>                                                                        |                    |          |            |            |                             |                             |                           |                        |                     |                                  |                           |                    |                           |                                         |                           |                                                             |                  |                                                       |       |     |
| 643M                                                                                           | 20+00.00           | 20+50.00 | 113        | 168        |                             |                             |                           |                        |                     |                                  |                           |                    | 436                       |                                         |                           |                                                             |                  |                                                       |       |     |
| 643N                                                                                           | 21+00.00           | 21+50.00 | 46         | 68         |                             |                             |                           |                        |                     |                                  |                           |                    | 262                       |                                         |                           |                                                             |                  |                                                       |       |     |
| 643P                                                                                           | 22+00.00           | 22+50.00 | 38         | 0          |                             |                             |                           |                        |                     |                                  |                           |                    | 104                       |                                         |                           |                                                             |                  |                                                       |       |     |
| 643R                                                                                           | 23+00.00           |          | 0          | 0          |                             |                             |                           |                        |                     |                                  |                           |                    | 0                         |                                         |                           |                                                             |                  |                                                       |       |     |
| <b>SUBTOTALS FROM THIS SHEET</b>                                                               |                    |          | 197        | 236        |                             |                             |                           |                        |                     |                                  |                           |                    | 802                       |                                         |                           |                                                             |                  |                                                       |       |     |
| <b>SUBTOTALS FROM SHEET 226</b>                                                                |                    |          | 32673      | 43898      |                             | 87                          |                           |                        | 35723               | 5120                             |                           |                    | 19360                     |                                         |                           |                                                             |                  |                                                       |       |     |
| <b>SUBTOTALS FROM SHEET 227</b>                                                                |                    |          | 20022      | 71474      |                             | 44955                       |                           |                        | 3220                | 3353                             |                           |                    | 31176                     |                                         |                           |                                                             |                  |                                                       |       |     |
| <b>SUBTOTALS FROM SHEET 228</b>                                                                |                    |          | 5076       | 2186       |                             |                             | 2086                      | 2086                   |                     |                                  |                           |                    | 3887                      |                                         |                           |                                                             |                  |                                                       |       |     |
| <b>SUBTOTALS FOR SEEDING &amp; MULCHING CALCULATIONS TOTALS CARRIED TO THE GENERAL SUMMARY</b> |                    |          | 57771      | 117794     |                             | 44955                       | 87                        | 2086                   | 2086                | 38943                            | 8473                      |                    | 55225                     | 2                                       | 6130                      | 2761                                                        | 2761             | 7.70                                                  | 11.41 | 306 |
|                                                                                                |                    |          |            |            |                             |                             |                           |                        |                     |                                  |                           |                    |                           |                                         |                           |                                                             |                  |                                                       |       |     |

| NO. | DESCRIPTION       | REV. | BY  | DATE       |
|-----|-------------------|------|-----|------------|
| 4   | UPDATED EARTHWORK |      | CWL | 11-29-2021 |



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| REF. NO.                                      | SHEET NO. | STATION                 |    | SIDE | 611                   |           | 611                |           | 611                 |           | 611                |           | 611                |           | 611                             |           | 611            |           | 611                         |           | 611                                           |           |                                                            |   |
|-----------------------------------------------|-----------|-------------------------|----|------|-----------------------|-----------|--------------------|-----------|---------------------|-----------|--------------------|-----------|--------------------|-----------|---------------------------------|-----------|----------------|-----------|-----------------------------|-----------|-----------------------------------------------|-----------|------------------------------------------------------------|---|
|                                               |           | FROM                    | TO |      | CATCH BASIN, NO. 2-2B |           | CATCH BASIN, NO. 3 |           | CATCH BASIN, NO. 3A |           | CATCH BASIN, NO. 6 |           | CATCH BASIN, NO. 8 |           | CATCH BASIN, NO. 8, AS PER PLAN |           | MANHOLE, NO. 3 |           | MANHOLE, NO. 3, AS PER PLAN |           | INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D |           | INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN |   |
|                                               |           |                         |    |      | EACH                  |           | EACH               |           | EACH                |           | EACH               |           | EACH               |           | EACH                            |           | EACH           |           | EACH                        |           | EACH                                          |           |                                                            |   |
|                                               |           |                         |    |      | 01/NHS/PV             | 01/NHS/PV | 01/NHS/PV          | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV          | 01/NHS/PV | 01/NHS/PV          | 01/NHS/PV | 01/NHS/PV                       | 01/NHS/PV | 01/NHS/PV      | 01/NHS/PV | 01/NHS/PV                   | 01/NHS/PV | 01/NHS/PV                                     | 01/NHS/PV |                                                            |   |
| D-62                                          | 312       | 271+27.21 (I-71 NB)     |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           | 1                                             |           |                                                            |   |
| D-63                                          | 312       | 271+89.00 (I-71 NB)     |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-64                                          | 310       | 265+52.70 (I-71 NB)     |    | LT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-66                                          | 281       | 4157+98.16 (I-70 EB)    |    | RT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-67                                          | 350       | 5068+00.00 (RAMP C5)    |    | RT   | 1                     |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-68                                          | 350       | 5068+89.91 (RAMP C5)    |    | RT   | 1                     |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-69                                          | 348       | 5064+56.00 (RAMP C5)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-70                                          | 348       | 5063+92.72 (RAMP C5)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-71                                          | 342       | 58+60.70 (EX SR 315 NB) |    | RT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-100                                         | 352       | 5071+14.38 (RAMP C5)    |    | RT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-101                                         | 350       | 5068+00.00 (RAMP C5)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-104                                         | 281       | 5062+60.38 (RAMP C5)    |    | LT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-108                                         | 279       | 5061+00.00 (RAMP C5)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-110                                         | 281       | 5064+42.90 (RAMP C5)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-111                                         | 283       | 5067+64.83 (RAMP C5)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-113                                         | 281       | 5063+24.57 (RAMP C5)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-114                                         | 348       | 5061+97.48 (RAMP C5)    |    | RT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-154                                         | 294       | 4187+04.95 (I-70 EB)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-155                                         | 294       | 4187+79.05 (I-70 EB)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-157                                         | 292       | 4185+75.68 (I-70 EB)    |    | LT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-159                                         | 354       | 5078+00.00 (RAMP C5)    |    | RT   | 1                     |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-160                                         | 289       | 4179+50.87 (I-70 EB)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-161                                         | 289       | 4177+26.22 (I-70 EB)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-162                                         | 294       | 187+68.00 (I-70 WB)     |    | RT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-165                                         | 289       | 4178+41.09 (I-70 EB)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-188                                         | 292       | 4183+00.32 (I-70 EB)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-189                                         | 289       | 4181+00.28 (I-70 EB)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-190                                         | 289       | 4179+15.29 (I-70 EB)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-191                                         | 292       | 4182+50.59 (I-70 EB)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-192                                         | 289       | 4179+50.59 (I-70 EB)    |    | LT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-201                                         | 333 - 335 | 5030+00.00 (RAMP C5)    |    | RT   | 1                     |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-202                                         | 335       | 5031+07.19 (RAMP C5)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-204                                         | 335       | 5033+20.48 (RAMP C5)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-205                                         | 269       | 128+65.00 (I-70 EB)     |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-206                                         | 269       | 128+65.00 (I-70 EB)     |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-207                                         | 335       | 5032+85.51 (RAMP C5)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-208                                         | 335       | 5032+90.46 (RAMP C5)    |    | RT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-209                                         | 269       | 128+35.00 (I-70 EB)     |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-210                                         | 269       | 128+35.00 (I-70 EB)     |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-211                                         | 269       | 128+26.90 (I-70 EB)     |    | LT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-212                                         | 271       | 5036+50.00 (RAMP C5)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    | 1         |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-213                                         | 327       | 3005+50.00 (RAMP C3)    |    | RT   | 1                     |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-214                                         | 329       | 3007+12.85 (RAMP C3)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-215                                         | 329       | 3008+40.40 (RAMP C3)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-216                                         | 340       | 5041+41.91 (RAMP C5)    |    | LT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-217                                         | 269       | 5035+30.15 (RAMP C5)    |    | LT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-220                                         | 306       | 254+00.00 (I-71 NB)     |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-222                                         | 306       | 256+60.40 (I-71 NB)     |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               | 1         |                                                            |   |
| D-223                                         | 316       | 5004+57.60 (RAMP A5)    |    | RT   |                       |           |                    |           |                     |           |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| D-224                                         | 281       | 4158+16.00 (I-70 EB)    |    | RT   |                       |           |                    |           |                     | 1         |                    |           |                    |           |                                 |           |                |           |                             |           |                                               |           |                                                            |   |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 223</b> |           |                         |    |      | 2                     | 3         | 3                  | 4         | 3                   | 3         | 1                  | 2         | 1                  | 1         | 1                               | 2         | 4              | 4         | 2                           | 2         | 4                                             | 4         | 2                                                          | 2 |

**ESTIMATED QUANTITIES**

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| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

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| REF. NO.                                      | SHEET NO.           | STATION                     |         | SIDE       | 611                   |            | 611                  |            | 611                |            | 611                |            | 611                |            | 611                             |            | 611            |            | SPECIAL                     |                | SPECIAL                                                                       |            | SPECIAL                                                               |            | 611                                                                 |            | SPECIAL                                       |                |                                            |      |      |
|-----------------------------------------------|---------------------|-----------------------------|---------|------------|-----------------------|------------|----------------------|------------|--------------------|------------|--------------------|------------|--------------------|------------|---------------------------------|------------|----------------|------------|-----------------------------|----------------|-------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------|------------|---------------------------------------------------------------------|------------|-----------------------------------------------|----------------|--------------------------------------------|------|------|
|                                               |                     |                             |         |            | CATCH BASIN, NO. 2-2B |            | CATCH BASIN, NO. 2-3 |            | CATCH BASIN, NO. 6 |            | CATCH BASIN, NO. 7 |            | CATCH BASIN, NO. 8 |            | CATCH BASIN, NO. 8, AS PER PLAN |            | MANHOLE, NO. 3 |            | MANHOLE, NO. 3, AS PER PLAN |                | CITY OF COLUMBUS STANDARD CURB AND GUTTER INLET (AA-S125A WITH GRATE AA-S128) |            | CITY OF COLUMBUS RECTANGULAR CATCH BASIN (AA-S135 WITH GRATE AA-S140) |            | CITY OF COLUMBUS STANDARD CATCH BASIN (AA-S133A WITH GRATE AA-S141) |            | INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D |                | CITY OF COLUMBUS MANHOLE, TYPE C (AA-S102) |      |      |
|                                               |                     | FROM                        | TO      |            | EACH                  | EACH       | EACH                 | EACH       | EACH               | EACH       | EACH               | EACH       | EACH               | EACH       | EACH                            | EACH       | EACH           | EACH       | EACH                        | EACH           | EACH                                                                          | EACH       | EACH                                                                  | EACH       | EACH                                                                | EACH       | EACH                                          | EACH           | EACH                                       | EACH | EACH |
|                                               |                     |                             |         |            | 01/NHS /PV            | 01/NHS /PV | 01/NHS /PV           | 01/NHS /PV | 01/NHS /PV         | 01/NHS /PV | 01/NHS /PV         | 01/NHS /PV | 01/NHS /PV         | 01/NHS /PV | 01/NHS /PV                      | 01/NHS /PV | 01/NHS /PV     | 01/NHS /PV | 01/NHS /PV                  | 05/NHS/ OT/COL | 05/NHS/OT/COL                                                                 | 01/NHS /PV | 01/NHS /PV                                                            | 01/NHS /PV | 01/NHS /PV                                                          | 01/NHS /PV | 01/NHS /PV                                    | 05/NHS/ OT/COL |                                            |      |      |
| D-225                                         | 318                 | 5006+50.00 (RAMP A5)        |         | RT         | 1                     |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-229                                         | 310                 | 263+94.67 (I-71 NB)         |         | RT         |                       |            |                      |            |                    |            |                    |            | 1                  |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-230                                         | 312                 | 268+50.00 (I-71 NB)         |         | LT         |                       |            |                      |            |                    |            |                    | 1          |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-232                                         | 308                 | 261+00.00 (I-71 NB)         |         | RT         |                       |            |                      |            |                    |            |                    | 1          |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-234                                         | 318                 | 5010+00.00 (RAMP A5)        |         | RT         |                       |            |                      |            |                    |            |                    | 1          |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-235                                         | 310                 | 264+05.12 (I-71 NB)         |         | RT         |                       |            |                      |            |                    |            |                    | 1          |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-236                                         | 310                 | 266+34+96 (I-71 NB)         |         | LT         | 1                     |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-237                                         | 310                 | 264+59.26 (I-71 NB)         |         | LT         |                       |            |                      |            |                    |            |                    |            |                    | 1          |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-239                                         | 310                 | 264+00.00 (I-71 NB)         |         | LT         |                       |            |                      |            |                    |            |                    | 1          |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-254                                         | 294                 | 4187+04.95 (I-70 EB)        |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                | 1          |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-255                                         | 294                 | 4187+81.55 (I-70 EB)        |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                | 1          |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-257                                         | 292                 | 183+15.98 (I-70 WB)         |         | LT         |                       |            | 1                    |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-258                                         | 292                 | 184+22.37 (I-70 WB)         |         | LT         | 1                     |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-259                                         | 354                 | 5077+00.00 (RAMP C5)        |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                | 1          |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-261                                         | 364                 | 6006+12.03 (RAMP C6)        |         | RT         |                       |            |                      |            |                    |            |                    |            |                    | 1          |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-262                                         | 281                 | 5065+80.00 (RAMP C5)        |         | LT         |                       |            |                      |            |                    |            |                    |            | 1                  |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-263                                         | 320                 | 5013+70.22 (RAMP A5)        |         | LT         |                       |            |                      |            |                    |            | 1                  |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-264                                         | 320                 | 5014+84.69 (RAMP A5)        |         | RT         |                       |            |                      |            |                    |            | 1                  |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-265                                         | 320                 | 5014+58.61 (RAMP A5)        |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            | 1                                                                   |            |                                               |                |                                            |      |      |
| D-266                                         | 320                 | 5014+50.00 (RAMP A5)        |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            | 1              |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-267                                         | 287                 | 4174+99.46 (I-70 EB)        |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 | 1          |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-268                                         | 292                 | 185+72.37 (I-70 WB)         |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 | 1          |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-299                                         | 292                 | 5090+75.00 (RAMP C5)        |         | LT         |                       |            |                      |            | 1                  |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-300                                         | 292                 | 4184+00.69 (I-70 EB)        |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 | 1          |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-301                                         | 292                 | 4184+88.82 (I-70 EB)        |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 | 1          |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-302                                         | 292                 | 4185+76.14 (I-70 EB)        |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 | 1          |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-305                                         | 375                 | 204+09.50 (LIVINGSTON AVE.) |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                | 1                                          |      |      |
| D-306                                         | 374                 | 200+69.74 (LIVINGSTON AVE.) |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                | 1                                          |      |      |
| D-307                                         | 375                 | 204+12.61 (LIVINGSTON AVE.) |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             | 1              |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-308                                         | 374                 | 203+87.26 (LIVINGSTON AVE.) |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                | 1                                                                             |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-309                                         | 374                 | 201+05.57 (LIVINGSTON AVE.) |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            | 1                           |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-310                                         | 374                 | 201+38.34 (LIVINGSTON AVE.) |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            | 1                           |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-311                                         | 374                 | 200+22.70 (LIVINGSTON AVE.) |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            | 1                           |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-312                                         | 368                 | 203+31.76 (LIVINGSTON AVE.) |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                | 1                                          |      |      |
| D-313                                         | 371                 | 22+95.00 (FULTON ST.)       |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       | 1          |                                                                     |            |                                               |                |                                            |      |      |
| D-314                                         | 371                 | 22+00.00 (FULTON ST.)       |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       | 1          |                                                                     |            |                                               |                |                                            |      |      |
| D-315                                         | 370                 | 21+12.76 (FULTON ST.)       |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       | 1          |                                                                     |            |                                               |                |                                            |      |      |
| D-317                                         | 370                 | 20+41.88 (FULTON ST.)       |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            | 1                           |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-318                                         | 370                 | 19+91.96 (FULTON ST.)       |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                | 1                                          |      |      |
| D-319                                         | 370                 | 19+26.27 (FULTON ST.)       |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                | 1                                          |      |      |
| D-320                                         | 368                 | 151+13.60 (FRONT ST.)       |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            | 1                           |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| D-321                                         | 368                 | 151+23.00 (FRONT ST.)       |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                | 1                                          |      |      |
| D-322                                         | 368                 | 151+47.39 (FRONT ST.)       |         | RT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                | 1                                          |      |      |
| D-323                                         | 368                 | 151+59.90 (FRONT ST.)       |         | LT         |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            | 1                           |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| NO.                                           | DESCRIPTION         |                             | REV. BY | DATE       |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| 4                                             | FUNDING CODE CHANGE |                             | CWL     | 11-29-2021 |                       |            |                      |            |                    |            |                    |            |                    |            |                                 |            |                |            |                             |                |                                                                               |            |                                                                       |            |                                                                     |            |                                               |                |                                            |      |      |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 223</b> |                     |                             |         |            | 1                     | 2          | 0                    | 1          | 0                  | 1          | 1                  | 1          | 2                  | 3          | 0                               | 1          | 4              | 5          | 1                           | 2              | 3                                                                             | 3          | 1                                                                     | 1          | 2                                                                   | 2          | 0                                             | 1              | 2                                          | 3    | 1    |

**ESTIMATED QUANTITIES**

**FRA - 70 / 71 - 12.68 / 14.86**

CALCULATED  
 JMB  
 CHECKED  
 CWL

232  
 1815

0:\2012\2012048\FRA\105523\ROADWAY\SHEETS\1055230004.DGN  
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| REF. NO.                                      | SHEET NO. | STATION    |                   | SIDE | 611       |           | 611       |           | 611       |           | 611       |           | SPECIAL           | 611       |           | 611       |           | SPECIAL   |           |  |
|-----------------------------------------------|-----------|------------|-------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
|                                               |           | FROM       | TO                |      | EACH      |           | EACH      |           | EACH      |           | EACH      |           | EACH              | EACH      |           | EACH      |           | EACH      |           |  |
|                                               |           |            |                   |      | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 05/NHS/OT/<br>COL | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV |  |
| D-326                                         | 292       | 4184+88.80 | (I-70 EB)         | LT   |           |           |           |           |           |           |           |           |                   | 1         |           |           |           |           |           |  |
| D-327                                         | 292       | 183+16.03  | (I-70 WB)         | LT   |           |           |           | 1         |           |           |           |           |                   |           |           |           |           |           |           |  |
| D-328                                         | 292       | 185+73.90  | (I-70 WB)         | LT   | 1         |           |           |           |           |           |           |           |                   |           |           |           |           |           |           |  |
| D-329                                         | 298       | 4200+81.39 | (I-70 EB)         | RT   |           |           |           | 1         |           |           |           |           |                   |           |           |           |           |           |           |  |
| D-330                                         | 298       | 4201+50.63 | (I-70 EB)         | RT   |           |           | 1         |           |           |           |           |           |                   |           |           |           |           |           |           |  |
| D-331                                         | 300       | 4202+53.27 | (I-70 EB)         | RT   |           |           |           | 1         |           |           |           |           |                   |           |           |           |           |           |           |  |
| D-332                                         | 289,292   | 4182+00.61 | (I-70 EB)         | LT   |           |           |           |           |           |           |           |           |                   |           | 1         |           |           |           |           |  |
| D-333                                         | 306       | 254+00.00  | (I-71 NB)         | RT   |           |           |           |           | 1         |           |           |           |                   |           |           |           |           |           |           |  |
| D-334                                         | 316       | 5004+48.92 | (RAMP A5)         | RT   |           |           |           |           | 1         |           |           |           |                   |           |           |           |           |           |           |  |
| D-340                                         | 375       | 206+09.66  | (LIVINGSTON AVE.) | RT   |           |           |           |           |           |           |           | 1         |                   |           |           |           |           |           |           |  |
| D-341                                         | 374       | 200+32.19  | (LIVINGSTON AVE.) | RT   |           |           |           |           |           |           |           |           |                   |           |           |           |           | 1         |           |  |
| D-342                                         | 374       | 201+05.57  | (LIVINGSTON AVE.) | RT   |           |           |           |           |           |           |           |           |                   |           |           |           |           | 1         |           |  |
| D-350                                         | 348       | 5061+19.30 | (RAMP C5)         | RT   |           |           |           |           |           |           |           |           |                   | 1         |           |           |           |           |           |  |
| D-351                                         | 335       | 5030+41.57 | (RAMP C5)         | RT   |           |           |           |           |           |           |           |           |                   | 1         |           |           |           |           |           |  |
| D-352                                         | 271       | 134+14.52  | (I-70 EB)         | RT   |           |           | 1         |           |           |           |           |           |                   |           |           |           |           |           |           |  |
| D-353                                         | 292       | 4182+95.83 | (I-70 EB)         | LT   |           |           |           |           |           |           |           |           |                   |           |           | 1         |           |           |           |  |
| D-354                                         | 371       | 21+62.24   | (FULTON ST.)      | LT   |           |           |           |           |           |           |           |           |                   |           |           |           |           | 1         |           |  |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 223</b> |           |            |                   |      | 0         | 1         | 1         | 1         | 1         | 2         | 1         | 1         | 1                 | 1         | 2         | 1         | 1         | 1         | 2         |  |

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

|                                      |     |         |     |
|--------------------------------------|-----|---------|-----|
| CALCULATED                           | JMB | CHECKED | CWL |
| <b>ESTIMATED QUANTITIES</b>          |     |         |     |
| <b>FRA - 70 / 71 - 12.68 / 14.86</b> |     |         |     |
| 233<br>1815                          |     |         |     |

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 11/22/2021  
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| REF. NO.                                          | SHEET NO. | STATION    |                   | SIDE | 202           |           | 202             |           | 202                 |           | 611                                                        | 611                                        |           | 611                                  |           | 611                                    |               |               |  |  |  |  |
|---------------------------------------------------|-----------|------------|-------------------|------|---------------|-----------|-----------------|-----------|---------------------|-----------|------------------------------------------------------------|--------------------------------------------|-----------|--------------------------------------|-----------|----------------------------------------|---------------|---------------|--|--|--|--|
|                                                   |           | FROM       | TO                |      | INLET REMOVED |           | MANHOLE REMOVED |           | CATCH BASIN REMOVED |           | DRAINAGE STRUCTURE, MISC.; GATEWELL RECONSTRUCTED TO GRADE | CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN |           | INLET ADJUSTED TO GRADE, AS PER PLAN |           | MANHOLE ADJUSTED TO GRADE, AS PER PLAN |               |               |  |  |  |  |
|                                                   |           |            |                   |      | EACH          | EACH      | EACH            | EACH      | EACH                | EACH      | EACH                                                       | EACH                                       | EACH      | EACH                                 | EACH      | EACH                                   | 05/NHS/OT/COL |               |  |  |  |  |
|                                                   |           |            |                   |      | 01/NHS/PV     | 01/NHS/PV | 01/NHS/PV       | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV                                                  | 01/NHS/PV                                  | 01/NHS/PV | 01/NHS/PV                            | 01/NHS/PV | 01/NHS/PV                              | 01/NHS/PV     | 05/NHS/OT/COL |  |  |  |  |
| DJ-12                                             | 372       | 11+70.88   | (MOUND ST.)       | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DJ-13                                             | 372       | 11+95.78   | (MOUND ST.)       | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DJ-14                                             | 372       | 12+05.15   | (MOUND ST.)       | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DJ-15                                             | 372       | 12+32.40   | (MOUND ST.)       | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DJ-16                                             | 372       | 12+34.55   | (MOUND ST.)       | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DJ-17                                             | 316       | 5004+24.33 | (RAMP A5)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DJ-300                                            | 375       | 205+82.26  | (LIVINGSTON AVE.) | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DJ-301                                            | 318       | 5009+96.16 | (RAMP A5)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-2                                              | 287       | 4176+00.65 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-3                                              | 287       | 4173+93.28 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-4                                              | 287       | 4175+67.29 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-5                                              | 287       | 4175+77.80 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-6                                              | 289       | 4181+71.99 | (I-70 EB)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-7                                              | 292       | 4182+71.83 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-8                                              | 292       | 4186+60.70 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-10                                             | 294       | 4189+99.14 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-13                                             | 292       | 4184+20.40 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-14                                             | 292       | 4185+04.95 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-15                                             | 269       | 130+96.22  | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-17                                             | 269       | 128+25.44  | (I-70 EB)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-18                                             | 269       | 128+26.90  | (I-70 EB)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-19                                             | 335       | 5032+62.86 | (RAMP C5)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-20                                             | 265       | 121+02.32  | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-21                                             | 329       | 3008+40.40 | (RAMP C3)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-22                                             | 356       | 5080+31.01 | (RAMP C5)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-23                                             | 318       | 5006+31.25 | (RAMP A5)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-24                                             | 318       | 5007+81.37 | (RAMP A5)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-25                                             | 310       | 264+09.85  | (I-71 NB)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-26                                             | 310       | 263+94.82  | (I-71 NB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-27                                             | 320       | 5014+19.04 | (RAMP A5)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-28                                             | 320       | 5014+64.48 | (RAMP A5)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-29                                             | 312       | 270+40.56  | (I-71 NB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-30                                             | 322       | 5016+01.77 | (RAMP A5)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-31                                             | 322       | 5016+08.99 | (RAMP A5)         | LT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-37                                             | 306       | 257+57.31  | (I-71 NB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-38                                             | 316       | 258+72.82  | (I-71 NB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-40                                             | 267       | 124+01.85  | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-41                                             | 287       | 4176+91.54 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-42                                             | 287       | 4176+84.91 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-43                                             | 289       | 4177+91.18 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| DR-44                                             | 289       | 4178+03.68 | (I-70 EB)         | RT   |               |           |                 |           |                     |           |                                                            |                                            |           |                                      |           |                                        |               |               |  |  |  |  |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 219.223</b> |           |            |                   |      | 7             | 8         | 3               | 3         | 5                   | 7         | 1                                                          | 0                                          | 1         | 1                                    | 1         | 1                                      | 2             | 1             |  |  |  |  |

|     |                     |         |            |
|-----|---------------------|---------|------------|
| NO. | DESCRIPTION         | REV. BY | DATE       |
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

**ESTIMATED QUANTITIES**

**FRA - 70 / 71 - 12.68 / 14.86**

CALCULATED  
JMB  
CHECKED  
CWL

234  
1815



| REF. NO.                                      | SHEET NO. | STATION    |                   | SIDE      | 202             |                | 202                 |           |                | 202           |           |                |   |   |   |  |  |  |  |  |   |  |
|-----------------------------------------------|-----------|------------|-------------------|-----------|-----------------|----------------|---------------------|-----------|----------------|---------------|-----------|----------------|---|---|---|--|--|--|--|--|---|--|
|                                               |           |            |                   |           | MANHOLE REMOVED |                | CATCH BASIN REMOVED |           |                | INLET REMOVED |           |                |   |   |   |  |  |  |  |  |   |  |
|                                               |           | FROM       | TO                |           | EACH            |                | EACH                |           |                | EACH          |           |                |   |   |   |  |  |  |  |  |   |  |
|                                               |           | 01/NHS/PV  | 01/NHS/PV         | 01/NHS/PV | 01/NHS/PV       | 05/NHS/OT/ COL | 01/NHS/PV           | 01/NHS/PV | 05/NHS/OT/ COL | 01/NHS/PV     | 01/NHS/PV | 05/NHS/OT/ COL |   |   |   |  |  |  |  |  |   |  |
| DR-45                                         | 294       | 4187+50.80 | (I-70 EB)         | LT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-48                                         | 348       | 5062+10.63 | (RAMP C5)         | RT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-50                                         | 310       | 264+59.26  | (I-71 NB)         | LT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-51                                         | 287       | 4173+76.75 | (I-70 EB)         | RT        |                 |                |                     |           |                | 1             |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-52                                         | 354       | 5078+05.54 | (RAMP C5)         | RT        |                 |                |                     |           |                | 1             |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-53                                         | 287       | 4175+60.00 | (I-70 EB)         | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-54                                         | 289       | 4179+75.54 | (I-70 EB)         | LT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-55                                         | 292       | 4184+35.94 | (I-70 EB)         | LT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-56                                         | 292       | 4184+77.97 | (I-70 EB)         | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-57                                         | 374       | 203+29.88  | (LIVINGSTON AVE.) | LT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-58                                         | 374       | 203+84.62  | (LIVINGSTON AVE.) | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-59                                         | 375       | 204+36.24  | (LIVINGSTON AVE.) | LT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  | 1 |  |
| DR-60                                         | 316       | 258+45.50  | (I-71 NB)         | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-61                                         | 340       | 5041+96.43 | (RAMP C5)         | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-62                                         | 370       | 19+24.54   | (FULTON ST.)      | LT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-63                                         | 370       | 19+32.14   | (FULTON ST.)      | RT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-64                                         | 370       | 19+35.51   | (FULTON ST.)      | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-65                                         | 370       | 19+57.65   | (FULTON ST.)      | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-66                                         | 370       | 20+08.57   | (FULTON ST.)      | RT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-67                                         | 368       | 151+24.52  | (FRONT ST.)       | LT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-72                                         | 292       | 4185+49.08 | (I-70 EB)         | LT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-73                                         | 289       | 4177+39.36 | (I-70 EB)         | LT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-76                                         | 298       | 4200+54.01 | (I-70 EB)         | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-77                                         | 298       | 4201+52.67 | (I-70 EB)         | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-78                                         | 300       | 4202+53.27 | (I-70 EB)         | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-79                                         | 374       | 201+11.75  | (LIVINGSTON AVE.) | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-80                                         | 374       | 201+54.54  | (LIVINGSTON AVE.) | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-300                                        | 375       | 206+09.66  | (LIVINGSTON AVE.) | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| DR-301                                        | 370       | 19+37.90   | (FULTON ST.)      | LT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| D-350                                         | 348       | 5061+19.30 | (RAMP C5)         | RT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| D-351                                         | 335       | 5030+41.57 | (RAMP C5)         | RT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| D-352                                         | 271       | 134+14.52  | (I-70 EB)         | RT        |                 |                |                     |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| D-353                                         | 292       | 4182+95.83 | (I-70 EB)         | LT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| D-354                                         | 371       | 21+62.24   | (FULTON ST.)      | LT        |                 |                | 1                   |           |                |               |           |                |   |   |   |  |  |  |  |  |   |  |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 219</b> |           |            |                   |           |                 |                | 4                   | 6         |                |               |           |                | 3 | 4 | 1 |  |  |  |  |  |   |  |

|     |                     |         |            |
|-----|---------------------|---------|------------|
| NO. | DESCRIPTION         | REV. BY | DATE       |
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

|                                      |     |         |     |
|--------------------------------------|-----|---------|-----|
| CALCULATED                           | JMB | CHECKED | CWL |
| <b>ESTIMATED QUANTITIES</b>          |     |         |     |
| <b>FRA - 70 / 71 - 12.68 / 14.86</b> |     |         |     |
| 235<br>1815                          |     |         |     |

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| REF. NO. | SHEET NO. | STATION              |                      | SIDE | 601                             |     | 601                             |    | 601                                         |     | 601                            |     | 601                       |     | 660              |    | 670                      |     |     |    |
|----------|-----------|----------------------|----------------------|------|---------------------------------|-----|---------------------------------|----|---------------------------------------------|-----|--------------------------------|-----|---------------------------|-----|------------------|----|--------------------------|-----|-----|----|
|          |           | FROM                 | TO                   |      | TIED CONCRETE BLOCK MAT, TYPE 1 |     | TIED CONCRETE BLOCK MAT, TYPE 2 |    | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER |     | PAVED GUTTER, TYPE 1-2, A.P.P. |     | CONCRETE SLOPE PROTECTION |     | SODDING UNSTAKED |    | DITCH EROSION PROTECTION |     |     |    |
|          |           |                      |                      |      | 01/NHS/PV                       |     | 01/NHS/PV                       |    | 01/NHS/PV                                   |     | 01/NHS/PV                      |     | 01/NHS/PV                 |     | 01/NHS/PV        |    | 01/NHS/PV                |     |     |    |
|          |           |                      |                      |      | SY                              | SY  | SY                              | SY | CY                                          | FT  | SY                             | SY  | SY                        | SY  | SY               | SY | SY                       | SY  | SY  | SY |
| E-1      | 327 - 329 | 3003+98.70 (RAMP C3) | 3007+01.77 (RAMP C3) | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  | 21 | 27                       |     |     |    |
| E-2      | 340       | 5040+50.00 (RAMP C5) | 5043+00.18 (RAMP C5) | RT   | 98                              | 125 |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          |     |     |    |
| E-3      | 310       | 264+05.07 (I-7 INB)  | 266+00.00 (I-71 NB)  | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 70  | 89  |    |
| E-8      | 312       | 269+50.00 (I-71 NB)  | 270+50.00 (I-71 NB)  | LT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 41  | 53  |    |
| E-9      | 271       | 132+16.97 (I-70 EB)  | 134+67.11 (I-70 EB)  | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 92  | 117 |    |
| E-10     | 292       | 4184+01.09 (I-70 EB) | 4186+00.70 (I-70 EB) | LT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 74  | 94  |    |
| E-11     | 279       | 4155+71.25 (I-70 EB) |                      | RT   |                                 |     | 1                               | 2  | 1.1                                         | 1.4 |                                |     |                           |     |                  |    |                          |     |     |    |
| E-12     | 329       | 3008+41.83 (RAMP C3) |                      | RT   |                                 |     | 1                               | 1  | 0.8                                         | 1   |                                |     |                           |     |                  |    |                          |     |     |    |
| E-14     | 308 - 310 | 262+50.00 (I-71 NB)  | 264+00.00 (I-71 NB)  | LT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 56  | 72  |    |
| E-15     | 318 - 320 | 5010+00.00 (RAMP A5) | 5011+50.00 (RAMP A5) | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 55  | 70  |    |
| E-16     | 285 - 287 | 4171+47.04 (I-70 EB) | 4173+00.03 (I-70 EB) | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 55  | 70  |    |
| E-17     | 287       | 4173+61.43 (I-70 EB) | 4175+14.90 (I-70 EB) | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 55  | 70  |    |
| E-18     | 287       | 4175+14.90 (I-70 EB) | 4176+11.60 (I-70 EB) | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 35  | 44  |    |
| E-19     | 281 - 283 | 4158+00.00 (I-70 EB) | 4166+24.84 (I-70 EB) | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 298 | 379 |    |
| E-20     | 338 - 340 | 5039+50.00 (RAMP C5) | 5040+50.00 (RAMP C5) | LT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 37  | 47  |    |
| E-21     | 308       | 261+00.00 (I-71 NB)  | 262+50.00 (I-71 NB)  | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 55  | 70  |    |
| E-22     | 318       | 5006+50.00 (RAMP A5) | 5008+50.00 (I-71 NB) | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 73  | 92  |    |
| E-23     | 320       | 5013+86.50 (RAMP A5) |                      | RT   |                                 |     | 30                              | 38 |                                             |     |                                |     |                           |     |                  |    |                          |     |     |    |
| E-24     | 312       | 268+50.00 (I-71 NB)  | 269+50.00 (I-71 NB)  | LT   |                                 |     | 43                              | 55 |                                             |     |                                |     |                           |     |                  |    |                          |     |     |    |
| E-25     | 340       | 5041+29.47 (RAMP C5) |                      | RT   |                                 |     | 24                              | 30 |                                             |     |                                |     |                           |     |                  |    |                          |     |     |    |
| E-26     | 320       | 5013+68.02 (RAMP A5) | 5015+38.90 (RAMP A5) | LT   |                                 |     |                                 |    |                                             |     | 89                             | 114 |                           |     |                  | 15 | 19                       |     |     |    |
| E-27     | 320       | 5014+81.68 (RAMP A5) | 5015+41.55 (RAMP A5) | RT   |                                 |     |                                 |    |                                             |     | 34                             | 44  |                           |     | 6                | 7  |                          |     |     |    |
| E-28     | 312       | 269+50.00 (I-71 NB)  |                      | LT   |                                 |     |                                 |    | 0.6                                         | 0.7 |                                |     |                           |     |                  |    |                          |     |     |    |
| E-68     | 350       | 5068+89.91 (RAMP C5) | 5069+50.00 (RAMP C5) | RT   |                                 |     |                                 |    |                                             |     |                                |     |                           |     |                  |    |                          | 22  | 28  |    |
| E-69     | 318       | 5007+77 (RAMP A5)    | 5008+40 (RAMP A5)    | RT   |                                 |     |                                 |    |                                             |     |                                |     | 185                       | 235 |                  |    |                          |     |     |    |
| E-70     | 320       | 5011+16 (RAMP A5)    | 5012+11 (RAMP A5)    | RT   |                                 |     |                                 |    |                                             |     |                                |     | 311                       | 396 |                  |    |                          |     |     |    |
| E-71     | 310       | 265+92.37 (I-71 NB)  | 266+11.11 (I-71 NB)  | RT   |                                 |     | 8                               | 10 |                                             |     |                                |     |                           |     |                  |    |                          |     |     |    |

|                                     |                      |
|-------------------------------------|----------------------|
| CALCULATED<br>JMB<br>CHECKED<br>CWL | ESTIMATED QUANTITIES |
| FRA - 70 / 71 - 12.68 / 14.86       |                      |
| 236<br>1815                         |                      |

**TOTALS CARRIED TO SUBSUMMARY SHEET 221**      98      125      107      136      3      3      251      320      496      631      42      53      1018      1295

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| REF. NO. | SHEET NO. | STATION                |                        | SIDE  | 607                             |               | 202           |               |                   | 202           |               |               | 607                       |                   |               | 607             |               | 607                              |               | 607                             |               | 607                              |               | 607                            |    |
|----------|-----------|------------------------|------------------------|-------|---------------------------------|---------------|---------------|---------------|-------------------|---------------|---------------|---------------|---------------------------|-------------------|---------------|-----------------|---------------|----------------------------------|---------------|---------------------------------|---------------|----------------------------------|---------------|--------------------------------|----|
|          |           |                        |                        |       | GATE, TYPE CLT, AS PER PLAN "B" |               | FENCE REMOVED |               |                   | GATE REMOVED  |               |               | FENCE REMOVED AND REBUILT |                   |               | FENCE, TYPE CLT |               | FENCE, TYPE CLT, AS PER PLAN "A" |               | GATE, TYPE CLT, AS PER PLAN "A" |               | FENCE, TYPE CLT, AS PER PLAN "B" |               | TEMPORARY VANDAL FENCE, TYPE B |    |
|          |           | FROM                   | TO                     |       | EACH                            | FT            |               |               | EACH              | FT            |               |               | FT                        |                   | FT            |                 | EACH          |                                  | FT            |                                 | FT            |                                  | FT            |                                | FT |
|          |           |                        |                        |       | 01/NHS/<br>PV                   | 01/NHS/<br>PV | 01/NHS/<br>PV | 01/NHS/<br>PV | 05/NHS/<br>OT/COL | 01/NHS/<br>PV | 01/NHS/<br>PV | 01/NHS/<br>PV | 01/NHS/<br>PV             | 05/NHS/<br>OT/COL | 01/NHS/<br>PV | 01/NHS/<br>PV   | 01/NHS/<br>PV | 01/NHS/<br>PV                    | 01/NHS/<br>PV | 01/NHS/<br>PV                   | 01/NHS/<br>PV | 01/NHS/<br>PV                    | 01/NHS/<br>PV | 01/NHS/<br>PV                  |    |
| F-1      | 375       | 207+02.79 (LIVINGSTON) | 207+48.53 (LIVINGSTON) | LT    |                                 |               |               |               |                   |               |               |               |                           | 47                |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| F-2      | 370, 371  | 22+84.08 (FULTON)      | 23+15.00 (FULTON)      | RT    |                                 |               |               |               |                   |               |               | 18            | 23                        |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| F-3      | 333, 335  | 5028+87.45 (RAMP C5)   | 5031+21.40 (RAMP C5)   | RT    |                                 |               |               |               |                   |               |               |               |                           |                   | 104.3         | 132.7           |               |                                  |               |                                 |               |                                  | 104.3         | 132.7                          |    |
| F-4      | 338       | 5038+16.04 (RAMP C5)   | 5038+35.66 (RAMP C5)   | RT    |                                 |               |               |               |                   |               |               |               |                           |                   | 12.8          | 16.2            |               |                                  |               |                                 |               |                                  | 12.8          | 16.2                           |    |
| F-5      | 348       | 5063+82.00 (RAMP C5)   | 5064+37.18 (RAMP C5)   | RT    |                                 |               |               |               |                   |               |               |               |                           |                   | 29.5          | 37.5            |               |                                  |               |                                 |               |                                  | 29.5          | 37.5                           |    |
| F-6      | 350, 352  | 5066+44.33 (RAMP C5)   | 5071+86.54 (RAMP C5)   | RT    |                                 |               |               |               |                   |               |               |               |                           |                   |               |                 | 243.5         | 309.8                            | 1             |                                 |               |                                  | 243.5         | 309.8                          |    |
| F-7      | 636 - 637 | 5+78.90 (BIKE DETOUR)  | 6+43.41 (BIKE DETOUR)  | LT    |                                 |               |               |               |                   |               |               |               |                           |                   | 33.6          | 42.8            |               |                                  |               |                                 |               |                                  |               |                                |    |
| F-8      | 637       | 7+64.22 (BIKE DETOUR)  | 7+99.64 (BIKE DETOUR)  | LT    |                                 |               |               |               |                   |               |               |               |                           |                   | 14.9          | 18.9            |               |                                  |               |                                 |               |                                  |               |                                |    |
| F-9      | 637       | 9+37.36 (BIKE DETOUR)  | 9+90.39 (BIKE DETOUR)  | LT    |                                 |               |               |               |                   |               |               |               |                           |                   | 16.1          | 20.5            |               |                                  |               |                                 |               |                                  |               |                                |    |
| F-10     | 638       | 13+78.34 (BIKE DETOUR) | 14+26.99 (BIKE DETOUR) | LT    |                                 |               |               |               |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 | 22.7          | 28.9                             |               |                                |    |
| F-11     | 638       | 14+26.99 (BIKE DETOUR) | 14+50.99 (BIKE DETOUR) | LT    | 1                               |               |               |               |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| F-12     | 638       | 13+90.50 (BIKE DETOUR) | 14+29.99 (BIKE DETOUR) | RT    |                                 |               |               |               |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  | 16.3          | 20.7                           |    |
| F-13     | 638       | 14+29.99 (BIKE DETOUR) | 14+53.99 (BIKE DETOUR) | RT    |                                 | 1             |               |               |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| F-14     | 637-638   | 14+50.99 (BIKE DETOUR) | 21+46.63 (BIKE DETOUR) | LT    |                                 |               |               |               |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 | 301.0         | 383.1                            |               |                                |    |
| F-15     | 637-638   | 14+53.99 (BIKE DETOUR) | 21+46.63 (BIKE DETOUR) | RT    |                                 |               |               |               |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  | 308.5         | 392.6                          |    |
| FR-1     | 374       | 4183+57.47 (I-70 EB)   | 202+62.79 (LIVINGSTON) | LT    |                                 |               | 154.4         | 196.6         |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-2     | 374, 375  | 203+45.92 (LIVINGSTON) | 206+69.37 (LIVINGSTON) | LT    |                                 |               |               |               | 424               |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-3     | 333, 335  | 5028+87.45 (RAMP C5)   | 5031+49.11 (RAMP C5)   | RT    |                                 |               | 115.3         | 146.7         |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-4     | 335       | 5032+37.36 (RAMP C5)   | 5032+62.68 (RAMP C5)   | RT    |                                 |               | 16.3          | 20.7          |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-5     | 338       | 5035+49.41 (RAMP C5)   | 5038+35.66 (RAMP C5)   | RT    |                                 |               | 132.9         | 169.1         |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-6     | 348, 350  | 5063+82.00 (RAMP C5)   | 5068+70.72 (RAMP C5)   | RT    |                                 |               | 288.2         | 366.8         |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-7     | 354       | 5078+96.43 (RAMP C5)   | 5079+22.43 (RAMP C5)   | RT    |                                 |               |               |               |                   | 1             |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-8     | 356, 358  | 5082+30.80 (RAMP C5)   | 5086+25.12 (RAMP C5)   | RT    |                                 |               | 261.9         | 333.3         |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-9     | 360       | 5086+71.74 (RAMP C5)   | 5087+84.37 (RAMP C5)   | RT    |                                 |               | 71.1          | 90.5          |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-10    | 370, 371  | 19+37.95 (FULTON)      | 22+84.08 (FULTON)      | RT    |                                 |               | 152.2         | 193.8         |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-11    | 368       | 150+74.18 (FRONT)      | 151+81.97 (FRONT)      | LT    |                                 |               | 47.5          | 60.5          |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-12    | 304 - 312 | 252+86.40 (I-71 NB)    | 273+29.19 (I-71 NB)    | RT    |                                 |               | 842.0         | 1071.7        |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |
| FR-13    | 637       | 9+37.36 (BIKE DETOUR)  | 9+90.39 (BIKE DETOUR)  | LT/RT |                                 |               | 22.7          | 28.9          |                   |               |               |               |                           |                   |               |                 |               |                                  |               |                                 |               |                                  |               |                                |    |

CALCULATED JMB CHECKED CWL  
**ESTIMATED QUANTITIES**  
**FRA - 70 / 71 - 12.68 / 14.86**  
 240  
 1815

**TOTALS CARRIED TO SUBSUMMARY SHEET 220**

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| REF. NO.                               | SHEET NO. | STATION                   |                      | SIDE      | 606                 |           | 606                                  |           | 606                                  |           | 606                                     |           | 606                         |           | 606                                                          |           | 626                                                          |           | 626                                |      |
|----------------------------------------|-----------|---------------------------|----------------------|-----------|---------------------|-----------|--------------------------------------|-----------|--------------------------------------|-----------|-----------------------------------------|-----------|-----------------------------|-----------|--------------------------------------------------------------|-----------|--------------------------------------------------------------|-----------|------------------------------------|------|
|                                        |           |                           |                      |           | GUARDRAIL, TYPE MGS |           | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 |           | MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 |           | ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) |           | ANCHOR ASSEMBLY, MGS TYPE T |           | IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL (50 MPH, 90" WIDTH) |           | IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL (50 MPH, 48" WIDTH) |           | BARRIER REFLECTOR, TYPE 1, ONE-WAY |      |
|                                        |           | FROM                      | TO                   |           | FT                  | EACH      | EACH                                 | EACH      | EACH                                 | EACH      | EACH                                    | EACH      | EACH                        | EACH      | EACH                                                         | EACH      | EACH                                                         | EACH      | EACH                               | EACH |
|                                        |           | 01/NHS/PV                 | 01/NHS/PV            | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV                            | 01/NHS/PV | 01/NHS/PV                            | 01/NHS/PV | 01/NHS/PV                               | 01/NHS/PV | 01/NHS/PV                   | 01/NHS/PV | 01/NHS/PV                                                    | 01/NHS/PV | 01/NHS/PV                                                    | 01/NHS/PV | 01/NHS/PV                          |      |
| G-1                                    | 331 - 335 | 5024+38.21 (RAMP C5)      | 5031+00.04 (RAMP C5) | RT        | 291.0               | 370.4     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-2                                    | 327, 329  | 3004+33.90 (RAMP C3)      | 3009+00.00 (RAMP C3) | RT        | 201.6               | 256.6     |                                      |           | 1                                    |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-3                                    | 327, 329  | 3004+34.58 (RAMP C3)      | 3009+00.00 (RAMP C3) | LT        | 211.8               | 269.5     |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-4                                    | 281, 283  | 4157+86.17 (I-70 EB)      | 4166+36.81 (I-70 EB) | RT        | 357.3               | 454.8     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-5                                    | 364       | 6005+64.05 (RAMP C6)      | 6010+65.38 (RAMP C6) | RT        | 219.8               | 279.7     |                                      | 1         |                                      |           |                                         |           |                             | 1         |                                                              |           |                                                              |           |                                    |      |
| G-6                                    | 296, 298  | 4192+70.37 (I-70 EB)      | 4197+47.14 (I-70 EB) | RT        | 198.6               | 252.8     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-7                                    | 285       | 4169+91.76 (I-70 EB)      | 4170+87.66 (I-70 EB) | RT        | 30                  | 38.2      |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-8                                    | 304       | 251+94.88 (I-71 NB)       | 252+74.90 (I-71 NB)  | RT        | 0                   | 0         |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-9                                    | 308 - 312 | 260+73.65 (I-71 NB)       | 272+03.49 (I-71 NB)  | LT        | 475.1               | 604.6     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-10                                   | 310 - 312 | 265+50.32 (I-71 NB)       | 270+82.56 (I-71 NB)  | RT        | 192.5               | 245       |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-11                                   | 318, 320  | 5008+46.34 (RAMP A5)      | 5015+10.25 (RAMP A5) | LT        | 263.9               | 335.9     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-12                                   | 318, 320  | 5009+40.64 (RAMP A5)      | 5014+34.78 (RAMP A5) | RT        | 202.7               | 258       |                                      | 1         |                                      |           |                                         |           | 1                           |           |                                                              |           |                                                              |           |                                    |      |
| G-13                                   | 338, 340  | 5039+05.43 (RAMP C5)      | 5041+41.61 (RAMP C5) | RT        | 104                 | 132.4     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           | 1                                                            |           |                                    |      |
| G-14                                   | 348 - 352 | 5062+40.43 (RAMP C5)      | 5070+83.69 (RAMP C5) | LT        | 375.6               | 478       |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-15                                   | 352, 354  | 5074+89.33 (RAMP C5)      | 5079+02.50 (RAMP C5) | LT        | 170.3               | 216.7     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-16                                   | 292, 294  | 183+98.23 (I-70 WB)       | 187+65.80 (I-70 WB)  | LT        | 148.5               | 189.0     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-17                                   | 340       | 5040+39.70 (RAMP C5)      | 5041+43.00 (RAMP C5) | LT        | 22                  | 28        |                                      | 1         |                                      |           |                                         |           | 1                           |           |                                                              |           |                                                              |           |                                    |      |
| G-18                                   | 348       | 5061+71.78 (RAMP C5)      | 5063+52.40 (RAMP C5) | RT        | 67.0                | 85.3      |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-19                                   | 350, 352  | 5066+62.10 (RAMP C5)      | 5071+00.96 (RAMP C5) | RT        | 191.6               | 243.9     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-20                                   | 342       | 58+64.62 (SR 315 NB)      | 59+61.98 (SR 315 NB) | RT        | 44                  | 56        |                                      |           |                                      |           |                                         |           | 2                           |           |                                                              |           |                                                              |           |                                    |      |
| G-21                                   | 340       | 62+11.25 (SR 315 SB)      | 62+85.54 (SR 315 SB) | LT        | 27.5                | 35        |                                      |           |                                      |           |                                         |           | 1                           |           |                                                              |           |                                                              |           |                                    |      |
| G-22                                   | 364       | 6004+96.45 (RAMP C6)      | 6006+06.21 (RAMP C6) | RT        | 37.6                | 47.8      |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| G-23                                   | 292, 294  | 4183+86.93 (I-70 EB)      | 4191+59.53 (I-70 EB) | RT        | 331.1               | 421.4     |                                      | 1         |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
| REFLECTORS                             |           |                           |                      |           |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           |                                                              |           |                                    |      |
|                                        |           | G-1                       | G-2                  | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 10                                                           | 15        |                                    |      |
|                                        |           | G-3                       |                      | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           |                                                              | 9         |                                    |      |
|                                        |           | 124+78.14 (I-70 EB)       | 128+26.37 (I-70 EB)  | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 4                                                            |           |                                    |      |
|                                        |           | G-17                      | 5051+75.92 (RAMP C5) | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 10                                                           | 2         |                                    |      |
|                                        |           | G-13                      | 5051+59.23 (RAMP C5) | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 10                                                           | 3         |                                    |      |
|                                        |           | G-8                       | 5004+50.00 (RAMP A5) | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 6                                                            | 1         |                                    |      |
|                                        |           | G-11                      | 5017+37.12 (RAMP A5) | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 5                                                            | 10        |                                    |      |
|                                        |           | G-12                      | 5090+80.78 (RAMP C5) | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 46                                                           | 14        |                                    |      |
|                                        |           | 5017+25.79 (RAMP B5)      | B-4                  | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 15                                                           | 10        |                                    |      |
|                                        |           | G-15                      | 5081+63.95 (RAMP C5) | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 3                                                            | 4         |                                    |      |
|                                        |           | 5084+20.00 (RAMP C5)      | 5090+82.09 (RAMP C5) | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 13                                                           |           |                                    |      |
|                                        |           | G-5                       | 4200+64.05 (I-70 EB) | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 14                                                           | 21        |                                    |      |
|                                        |           | B-1                       |                      | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 11                                                           |           |                                    |      |
|                                        |           | G-9                       | 272+50.00 (I-71 NB)  | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 2                                                            | 17        |                                    |      |
|                                        |           | G-10                      | B-3                  | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 38                                                           | 21        |                                    |      |
|                                        |           | 4148+49.95 (I-70 EB)      | 4167+27.87 (I-70 EB) | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 19                                                           |           |                                    |      |
|                                        |           | B-2                       |                      | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 5                                                            |           |                                    |      |
|                                        |           | 4174+06.00 (I-70 EB)      | 4197+00.00 (I-70 EB) | LT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 14                                                           |           |                                    |      |
|                                        |           | G-20                      |                      | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           |                                                              | 2         |                                    |      |
|                                        |           | G-21                      |                      | RT        |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           |                                                              | 2         |                                    |      |
|                                        |           | B-5                       |                      |           |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 2                                                            | 4         |                                    |      |
|                                        |           | B-6                       |                      |           |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 6                                                            |           |                                    |      |
|                                        |           | OVERHEAD SIGN REPLACEMENT |                      |           |                     |           |                                      |           |                                      |           |                                         |           |                             |           |                                                              |           | 7                                                            |           |                                    |      |
| TOTALS CARRIED TO SUBSUMMARY SHEET 220 |           |                           |                      |           | 4164                | 5299      | 8                                    | 11        | 4                                    | 6         | 2                                       | 3         | 2                           | 2         | 1                                                            | 1         | 106                                                          | 134       | 59                                 | 76   |

CALCULATED JMB CHECKED CWL  
**ESTIMATED QUANTITIES**  
**FRA - 70 / 71 - 12.68 / 14.86**  
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| REF. NO. | SHEET NO. | STATION                |                        | SIDE      | SPECIAL                                                                              |               | 611                 |           | 611                              |           | 611                 |           | 611                 |           | 611                 |           | 611                                            |           | 611                 |           | 611                 |           | 611                              |           | 611                 |           | 611                 |           | SPECIAL             |    |                                              |    |                                                                                     |    |
|----------|-----------|------------------------|------------------------|-----------|--------------------------------------------------------------------------------------|---------------|---------------------|-----------|----------------------------------|-----------|---------------------|-----------|---------------------|-----------|---------------------|-----------|------------------------------------------------|-----------|---------------------|-----------|---------------------|-----------|----------------------------------|-----------|---------------------|-----------|---------------------|-----------|---------------------|----|----------------------------------------------|----|-------------------------------------------------------------------------------------|----|
|          |           |                        |                        |           | CITY OF COLUMBUS 12" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |               | 15" CONDUIT, TYPE B |           | 15" CONDUIT, TYPE B, AS PER PLAN |           | 15" CONDUIT, TYPE C |           | 18" CONDUIT, TYPE C |           | 21" CONDUIT, TYPE B |           | 21" CONDUIT, TYPE B, 706.02 WITH 706.11 JOINTS |           | 21" CONDUIT, TYPE C |           | 24" CONDUIT, TYPE B |           | 24" CONDUIT, TYPE B, AS PER PLAN |           | 24" CONDUIT, TYPE C |           | 30" CONDUIT, TYPE C |           | 36" CONDUIT, TYPE B |    | CONDUIT, BORED OR JACKED, 42" TYPE B, 748.06 |    | CITY OF COLUMBUS 8" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |    |
|          |           |                        |                        |           | FROM                                                                                 | TO            | FT                  | FT        | FT                               | FT        | FT                  | FT        | FT                  | FT        | FT                  | FT        | FT                                             | FT        | FT                  | FT        | FT                  | FT        | FT                               | FT        | FT                  | FT        | FT                  | FT        | FT                  | FT | FT                                           | FT | FT                                                                                  | FT |
|          |           |                        |                        | 01/NHS/PV | 01/NHS/PV                                                                            | 05/NHS/OT/COL | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV                        | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV                                      | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV                        | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV           | 01/NHS/PV | 01/NHS/PV           |    |                                              |    |                                                                                     |    |
| P-230    | 310       | D-236                  | D-230                  | LT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           | 109.6                                          | 139.4     |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-232    | 308,310   | D-232                  | D-229                  | RT        |                                                                                      |               |                     |           | 128.9                            | 164.1     |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-234    | 318       | D-225                  | D-234                  | RT        |                                                                                      |               | 153.1               | 194.9     |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-235    | 310       | D-229                  | D-235                  | RT        |                                                                                      |               |                     |           | 4.8                              | 6.2       |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-236    | 310       | D-64                   | D-236                  | LT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           | 41.8                | 53.2      |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-237    | 310       | D-229                  | D-237                  | LT/RT     |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           | 51.9                | 66.1      |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-238    | 310       | D-237                  | 264+57.68 (I-71 NB)    | LT        |                                                                                      |               |                     |           | 3.5                              | 4.5       |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-239    | 310       | D-239                  | D-237                  | LT        |                                                                                      |               |                     |           | 27.3                             | 34.7      |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-254    | 292,294   | D-56                   | D-254                  | LT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           | 50.6                                           | 64.4      |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-255    | 294       | D-254                  | D-255                  | LT        |                                                                                      |               |                     |           |                                  |           |                     | 33.4      | 42.6                |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-257    | 292       | D-257                  | DJ-II                  | LT/RT     |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           | 55.4                | 70.6      |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-257A   | 292       | D-257                  | DJ-II                  | LT/RT     |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-258    | 292       | D-257                  | D-258                  | LT        |                                                                                      |               |                     |           |                                  |           | 47.1                | 59.9      |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-259    | 354       | D-259                  | D-38                   | RT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     | 8.4       | 10.6                |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-261    | 285,287   | D-261                  | D-35                   | RT        |                                                                                      |               | 88                  | 112       |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-262    | 281       | D-110                  | D-262                  | RT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-263    | 320       | D-263                  | HW-263                 | RT        |                                                                                      |               |                     |           |                                  |           |                     | 84.5      | 107.5               |           |                     |           |                                                |           |                     |           |                     |           |                                  |           | 61.2                | 77.8      |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-264    | 320       | D-266                  | D-264                  | RT        |                                                                                      |               |                     |           |                                  |           |                     | 14.5      | 18.5                |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-265    | 320       | D-265                  | D-266                  | RT        |                                                                                      |               |                     |           |                                  |           |                     | 21.6      | 27.4                |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-266    | 320       | D-266                  | HW-266                 | RT        |                                                                                      |               |                     |           |                                  |           |                     | 22.4      | 28.6                |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-267    | 287       | D-267                  | AB-2                   | LT/RT     |                                                                                      |               |                     |           | 24.6                             | 31.4      |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-268    | 292       | D-258                  | D-268                  | LT        |                                                                                      |               |                     |           |                                  |           | 66                  | 84        |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-299    | 292       | D-268                  | D-299                  | LT        |                                                                                      |               | 23.8                | 30.2      |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-300    | 292       | D-300                  | D-301                  | LT        |                                                                                      |               | 38.7                | 49.3      |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-300A   | 292       | EX-8                   | D-300                  | LT        |                                                                                      |               |                     |           |                                  |           | 6.2                 | 7.8       |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-301    | 292       | D-301                  | D-326                  | LT        |                                                                                      |               | 3.5                 | 4.5       |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-302    | 292       | EX-2                   | D-302                  | LT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     | 4.4       | 5.6                 |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-303    | 374       | 202+80.15 (LIVINGSTON) | D-312                  | LT/RT     |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-304    | 374       | 203+40.77 (LIVINGSTON) | D-312                  | LT/RT     |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-305    | 374,375   | D-312                  | D-305                  | RT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-306    | 374       | D-306                  | 200+70.63 (LIVINGSTON) | RT        | 1.8                                                                                  | 2.2           |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-307    | 375       | D-305                  | D-307                  | RT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-308    | 374,375   | D-308                  | D-307                  | RT        |                                                                                      |               |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-309    | 374       | D-309                  | D-342                  | RT        | 2.2                                                                                  | 2.8           |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-310    | 374       | D-310                  | D-342                  | RT        | 14.5                                                                                 | 18.5          |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-311    | 374       | D-311                  | D-341                  | RT        | 4                                                                                    | 6             |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-312    | 374       | D-312                  | 203+33.91 (LIVINGSTON) | RT        |                                                                                      |               | 3.5                 | 4.5       |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-313    | 371       | D-314                  | D-313                  | RT        | 41.8                                                                                 | 53.2          |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-314    | 370,371   | D-315                  | D-314                  | RT        | 38.3                                                                                 | 48.7          |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-315    | 370       | D-317                  | D-315                  | RT        | 31.2                                                                                 | 39.8          |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |
| P-317    | 370       | D-318                  | D-317                  | LT/RT     | 27.3                                                                                 | 34.7          |                     |           |                                  |           |                     |           |                     |           |                     |           |                                                |           |                     |           |                     |           |                                  |           |                     |           |                     |           |                     |    |                                              |    |                                                                                     |    |

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| CALCULATED<br>JMB<br>CHECKED<br>CWL | <b>ESTIMATED QUANTITIES</b> |
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| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

TOTALS CARRIED TO SUBSUMMARY SHEET 222. 223    161   206   114   311   395   31   39   308   391   113   144   33   43   8   11   110   139   51   64   4   6   94   119   61   78   55   71   55   71   32   41

**FRA -70/ 71-12.68 / 14.86**  
245  
1815



| REF. SHEET NO.                                   | STATION | SIDE                   | 202                  |           | 611                         |           | 611                    |           | 611                 |           | 611                         |           | 611                 |           | 611                         |           | SPECIAL                          |           | SPECIAL             |           | SPECIAL             |               | SPECIAL                                                                                                         |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
|--------------------------------------------------|---------|------------------------|----------------------|-----------|-----------------------------|-----------|------------------------|-----------|---------------------|-----------|-----------------------------|-----------|---------------------|-----------|-----------------------------|-----------|----------------------------------|-----------|---------------------|-----------|---------------------|---------------|-----------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|----|----|
|                                                  |         |                        | FROM                 | TO        | PIPE REMOVED, 24" AND UNDER |           | PIPE REMOVED, OVER 24" |           | 12" CONDUIT, TYPE B |           | 12" CONDUIT, TYPE B, 706.02 |           | 15" CONDUIT, TYPE B |           | 15" CONDUIT, TYPE B, 706.02 |           | 15" CONDUIT, TYPE B, AS PER PLAN |           | 18" CONDUIT, TYPE B |           | 18" CONDUIT, TYPE C |               | CITY OF COLUMBUS 12" PIPE, 706.02 WITH 706.11 JOINTS, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |           | CITY OF COLUMBUS 12" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |           | CITY OF COLUMBUS 15" PIPE, 706.02 WITH 706.11 JOINTS, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |           | CITY OF COLUMBUS 6" PIPE, WITH TYPE 1 BEDDING, WITH 912 COMPACTED GRANULAR MATERIAL |    |    |
|                                                  |         |                        |                      | 01/NHS/PV |                             | 01/NHS/PV |                        | 01/NHS/PV |                     | 01/NHS/PV |                             | 01/NHS/PV |                     | 01/NHS/PV |                             | 01/NHS/PV |                                  | 01/NHS/PV |                     | 01/NHS/PV |                     | 05/NHS/OT/COL |                                                                                                                 | 01/NHS/PV |                                                                                      | 01/NHS/PV |                                                                                                                 | 01/NHS/PV |                                                                                     |    |    |
| P-318                                            | 370     | D-319                  | D-318                | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  | 29        | 37                  |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-318A                                           | 370     | D-318                  | AB-29                | LT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  | 3.5       | 4.5                 |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-319                                            | 370     | D-319                  | D-320                | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  | 7.5       | 9.5                 |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-320                                            | 368     | D-321                  | D-320                | LT/RT     |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               | 24.6                                                                                                            | 31.4      |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-321                                            | 292     | D-268                  | D-321                | LT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             | 37        | 47                               |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-322                                            | 368     | D-320                  | D-322                | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  | 15        | 19                  |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-323                                            | 368     | D-321                  | D-323                | LT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  | 16.3      | 20.7                |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-326                                            | 292     | D-326                  | D-302                | LT        |                             |           |                        |           |                     |           | 38.3                        | 48.7      |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-327                                            | 370     | D-315                  | DJ-326               | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 | 22.9      | 29.1                                                                                 |           |                                                                                                                 |           |                                                                                     |    |    |
| P-328                                            | 292     | D-328                  | 185+75.35 (I-70 WB)  | LT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           | 1.8                              | 2.2       |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-329                                            | 298     | D-329                  | D-330                | RT        |                             |           |                        |           |                     | 30.4      | 38.6                        |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-330                                            | 298     | D-330                  | 4201+66.63 (I-70 EB) | RT        |                             |           |                        |           |                     |           |                             |           |                     | 7         | 9                           |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-331                                            | 300     | D-331                  | 4202+45.34 (I-70 EB) | RT        |                             |           |                        |           |                     |           | 3.5                         | 4.5       |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-332                                            | 292     | D-332                  | DJ-11                | LT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           | 42.2                             | 53.8      |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-333                                            | 306     | D-220                  | D-333                | RT        |                             |           |                        |           |                     |           | 1.8                         | 2.2       |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-334                                            | 316     | D-334                  | D-223                | RT        |                             |           |                        |           |                     |           | 4                           | 5         |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-340                                            | 375     | DJ-300                 | D-340                | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-341                                            | 374     | D-341                  | D-306                | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 | 17.2      | 21.8                                                                                 |           |                                                                                                                 |           |                                                                                     |    |    |
| P-342                                            | 374     | D-342                  | D-306                | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 | 16.3      | 20.7                                                                                 |           |                                                                                                                 |           |                                                                                     |    |    |
| P-350                                            | 289     | AB-5                   | D-160                | LT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-351                                            | 289     | D-161                  | 177+22.82 (I-70 EB)  | LT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             | 47.5      | 60.5                             |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-360                                            | 374     | 202+58.62 (LIVINGSTON) | D-312                | LT/RT     |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-361                                            | 374,375 | 203+94.03 (LIVINGSTON) | D-305                | LT/RT     |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 | 33.4      | 42.6                                                                                |    |    |
| P-500                                            | 287     | D-267                  | EX-6                 | LT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-501                                            | 287     | D-267                  | 174+97.70 (I-70 EB)  | LT        |                             |           |                        |           |                     | 3.5       | 4.5                         |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| P-502                                            | 287     | AB-2                   | D-36                 | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             | 26.8      | 34.2                             |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-1                                             | 283     | AB-3                   | 4162+98.68 (I-70 EB) | RT        | 11                          | 14        |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-2                                             | 287     | DR-53                  | DR-2                 | RT        | 16.3                        | 20.7      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-3                                             | 287     | DR-3                   | DR-4                 | RT        | 75.7                        | 96.3      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-4                                             | 287     | DR-4                   | DR-5                 | RT        | 6.6                         | 8.4       |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-5                                             | 287     | DR-5                   | O.S.I.S.             | RT        | 26.4                        | 33.6      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-6                                             | 289,292 | DR-6                   | DJ-11                | LT        | 53.7                        | 68.3      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-7                                             | 292     | DJ-11                  | DR-7                 | LT/RT     | 19.8                        | 25.2      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-8                                             | 292     | DR-9                   | DR-8                 | RT        | 22.4                        | 28.6      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-9                                             | 292     | EX-2                   | DR-9                 | LT/RT     | 33.9                        | 43.1      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-10                                            | 287     | DR-2                   | O.S.I.S.             | RT        | 14.1                        | 17.9      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-12                                            | 292     | DR-13                  | 4184+77.97 (I-70 EB) | RT        | 24.2                        | 30.8      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-13                                            | 269     | DR-17                  | DR-19                | LT/RT     | 30.4                        | 38.6      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-15                                            | 269     | DR-18                  | DR-17                | LT        | 4.4                         | 5.6       |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-16                                            | 269     | DJ-1                   | DR-18                | LT        | 5.3                         | 6.7       |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-17                                            | 269     | DR-15                  | 130+96.19 (I-70 EB)  | RT        | 2.2                         | 2.8       |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-18                                            | 335     | 5030+08.06 (RAMP C5)   | 5032+04.54 (RAMP C5) | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-19                                            | 316     | DR-60                  | 5004+57.16 (RAMP A5) | RT        | 3.1                         | 3.9       |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-20                                            | 356     | DR-22                  | 5080+50.64 (RAMP C5) | RT        | 15.4                        | 19.6      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-22                                            | 310     | DR-25                  | DR-50                | LT        | 21.6                        | 27.4      |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-23                                            | 310     | DR-25                  | DR-26                | LT/RT     | 37                          | 47        |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-24                                            | 310     | DR-26                  | 263+90.46 (I-71 NB)  | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-25                                            | 310     | DR-26                  | 263+92.78 (I-71 NB)  | RT        |                             |           |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| PR-26                                            | 318     | DR-23                  | 5006+26.89 (RAMP A5) | RT        | 16                          | 21        |                        |           |                     |           |                             |           |                     |           |                             |           |                                  |           |                     |           |                     |               |                                                                                                                 |           |                                                                                      |           |                                                                                                                 |           |                                                                                     |    |    |
| TOTALS CARRIED TO SUBSUMMARY SHEET 219, 222, 223 |         |                        |                      |           | 440                         | 559       | 93                     | 119       | 34                  | 43        | 7                           | 9         | 44                  | 56        | 7                           | 9         | 94                               | 120       | 79                  | 101       | 2                   | 2             | 71                                                                                                              | 91        | 56                                                                                   | 72        | 29                                                                                                              | 25        | 31                                                                                  | 44 | 55 |

ESTIMATED QUANTITIES

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| REF. NO.                                      | SHEET NO. | STATION                    |                        | SIDE  | 202                         |           | 202                                    |                         | 202                              |                           | 202                      |           | 202       |           | 202       |           | 202       |           | 202       |           |           |
|-----------------------------------------------|-----------|----------------------------|------------------------|-------|-----------------------------|-----------|----------------------------------------|-------------------------|----------------------------------|---------------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                               |           | FROM                       | TO                     |       | PIPE REMOVED, 24" AND UNDER |           | REMOVAL MISC.: BENCH REMOVED AND RESET | REMOVAL MISC.: BOLLARDS | REMOVAL MISC.: ROCK ART MONOLITH | REMOVAL MISC.: LIGHT POLE | REMOVAL MISC.: WOOD POLE |           |           |           |           |           |           |           |           |           |           |
|                                               |           |                            |                        |       | FT                          | FT        | EACH                                   | EACH                    | EACH                             | EACH                      | EACH                     | EACH      | EACH      | EACH      | EACH      | EACH      | EACH      | EACH      | EACH      | EACH      |           |
|                                               |           |                            |                        |       | 01/NHS/PV                   | 01/NHS/PV | 05/NHS/OT/ COL                         | 01/NHS/PV               | 01/NHS/PV                        | 01/NHS/PV                 | 01/NHS/PV                | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV | 01/NHS/PV |
| PR-38                                         | 316       | DR-60                      | 5004+58.16 (RAMP A5)   | RT    | 5.3                         | 6.7       |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-39                                         | 306,308   | DR-37                      | DR-60                  | RT    | 38.7                        | 49.3      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-40                                         | 316       | DR-60                      | DR-40                  | RT    | 11                          | 14        |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-41                                         | 318       | DR-23                      | DR-24                  | RT    | 64.2                        | 81.8      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-42                                         | 348       | DJ-5                       | DR-48                  | RT    | 44                          | 56        |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-51                                         | 287       | DR-51                      | DR-3                   | RT    | 10.1                        | 12.9      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-52                                         | 354       | DR-3                       | DR-52                  | LT/RT | 28.2                        | 35.8      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-53                                         | 287       | EX-6                       | DR-53                  | LT    | 32.6                        | 41.4      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-54                                         | 289       | AB-5                       | DR-54                  | LT    | 56.3                        | 71.7      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-55                                         | 292       | DJ-11                      | DR-55                  | LT    | 59.8                        | 76.2      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-61                                         | 340       | DR-61                      | 5043+00.18 (RAMP C5)   | RT    | 46.2                        | 58.8      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-62                                         | 370       | DR-62                      | DR-63                  | LT/RT | 11.4                        | 14.6      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-64                                         | 370       | DR-63                      | DR-64                  | RT    | 4                           | 5         |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-65                                         | 370       | DR-64                      | DR-65                  | RT    | 9.7                         | 12.3      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-66                                         | 370       | DR-63                      | DR-66                  | RT    | 31.7                        | 40.3      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-67                                         | 370       | DR-67                      | DR-63                  | LT/RT | 37.4                        | 47.6      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-68                                         | 370,371   | DR-66                      | DJ-326                 | LT/RT | 66                          | 84        |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-70                                         | 370       | DR-70                      | DR-63                  | LT/RT | 70.4                        | 89.6      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-71                                         | 370       | AB-29                      | DR-66                  | LT/RT | 14.5                        | 18.5      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-72                                         | 289       | DR-73                      | AB-5                   | LT    | 44                          | 56        |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-73                                         | 368       | DR-57                      | 148+60.41 (FRONT)      | RT    | 5.7                         | 7.3       |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-74                                         | 374       | DR-57                      | DR-58                  | RT    | 23.8                        | 30.2      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-75                                         | 374,375   | DR-58                      | DR-59                  | RT    | 26                          | 33        |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-76                                         | 298       | DR-76                      | DR-77                  | RT    | 42.2                        | 53.8      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-77                                         | 375       | EX-300                     | DR-300                 | RT    | 11                          | 14        |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-78                                         | 292       | DR-72                      | 4185+54.02 (I-70 EB)   | LT    | 5.7                         | 7.3       |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-90                                         | 287       | AB-2                       | DR-53                  | RT    | 22.9                        | 29.1      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-91                                         | 289       | 4178+36.08 (I-70 EB)       | AB-5                   | LT    | 18                          | 23        |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-92                                         | 289       | 4177+18.17 (I-70 EB)       | DR-73                  | LT    | 22.4                        | 28.6      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-93                                         | 354       | 5075+07.72 (RAMP C5)       | EX-4                   | LT/RT | 22.0                        | 28.0      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-215                                        | 329       | DR-21                      | HW-3                   | RT    | 30.4                        | 38.6      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-267                                        | 287       | 4174+97.74 (I-70 EB)       | AB-2                   | LT/RT | 33.9                        | 43.1      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-300                                        | 292       | EX-8                       | DR-55                  | LT    | 34.8                        | 44.2      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-306                                        | 374       | DR-56                      | 200+70.63 (LIVINGSTON) | LT/RT | 16                          | 21        |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-307                                        | 374       | DR-80                      | DR-79                  | RT    | 16.7                        | 21.3      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| PR-308                                        | 374       | DR-79                      | DR-14                  | LT/RT | 17.2                        | 21.8      |                                        |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| R-1                                           | 374       | 202+27.26 (LIVINGSTON AVE) |                        | RT    |                             |           |                                        | 4                       |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| R-2                                           | 375       | 204+07.19 (LIVINGSTON AVE) |                        | RT    |                             |           | 1                                      |                         |                                  |                           |                          |           |           |           |           |           |           |           |           |           |           |
| R-3                                           | 350       | 5066+83.42 (RAMP C5)       |                        | RT    |                             |           |                                        |                         |                                  |                           | 1                        |           |           |           |           |           |           |           |           |           |           |
| R-4                                           | 350       | 5067+04.15 (RAMP C5)       |                        | RT    |                             |           |                                        |                         |                                  |                           |                          |           | 1         |           |           |           |           |           |           |           |           |
| R-5                                           | 350       | 5068+06.83 (RAMP C5)       |                        | RT    |                             |           |                                        |                         |                                  |                           |                          |           |           | 1         |           |           |           |           |           |           |           |
| R-6                                           | 350       | 5068+77.48 (RAMP C5)       |                        | RT    |                             |           |                                        |                         |                                  |                           |                          |           |           |           | 1         |           |           |           |           |           |           |
| R-7                                           | 348       | 5064+84.69 (RAMP C5)       |                        | LT    |                             |           |                                        |                         |                                  |                           |                          |           |           |           |           | 1         |           |           |           |           |           |
| R-8                                           | 352       | 5073+11.59 (RAMP C5)       |                        | LT    |                             |           |                                        |                         |                                  |                           |                          |           |           |           |           |           | 1         |           |           |           |           |
| R-9                                           | 352       | 5073+84.39 (RAMP C5)       |                        | RT    |                             |           |                                        |                         |                                  |                           |                          |           |           |           |           |           |           | 1         |           |           |           |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 219</b> |           |                            |                        |       | 1034                        | 1317      | 1                                      | 4                       | 2                                | 3                         | 2                        |           |           |           |           |           |           |           |           |           |           |

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ESTIMATED QUANTITIES

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| REF. NO.                                          | SHEET NO. | STATION              |                      | SIDE | 202                               | 202                                |  |   | SPECIAL                                               | SPECIAL                                                               | 611                                                          |  |  |                                                                                                                           | SPECIAL   |  |  |  |  |  |
|---------------------------------------------------|-----------|----------------------|----------------------|------|-----------------------------------|------------------------------------|--|---|-------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------------------------|-----------|--|--|--|--|--|
|                                                   |           | FROM                 | TO                   |      | PIPE REMOVED, 24" AND UNDER<br>FT | MANHOLE REMOVED (SANITARY)<br>EACH |  |   | CITY OF COLUMBUS MANHOLE,<br>TYPE C (AA-S102)<br>EACH | CITY OF COLUMBUS MANHOLE,<br>TYPE C; AS PER PLAN<br>(AA-S102)<br>EACH | MANHOLE ADJUSTED TO GRADE,<br>AS PER PLAN (SANITARY)<br>EACH |  |  | CITY OF COLUMBUS 18"<br>CONDUIT, C905 PIPE, WITH<br>TYPE 1 BEDDING, WITH ITEM 912<br>COMPACTED GRANULAR<br>MATERIAL<br>FT |           |  |  |  |  |  |
|                                                   |           |                      |                      |      | 01/NHS/PV                         | 01/NHS/PV                          |  |   | 01/NHS/PV                                             | 01/NHS/PV                                                             | 01/NHS/PV                                                    |  |  |                                                                                                                           | 01/NHS/PV |  |  |  |  |  |
| SA-1                                              | 903       | 11+31.18 (SHORT ST.) |                      | LT   |                                   |                                    |  | 1 |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SA-2                                              | 903       | 10+48.04 (SHORT ST.) |                      | LT   |                                   |                                    |  | 1 |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SA-3                                              | 904       | 4176+82.28 (I-70 EB) |                      | RT   |                                   |                                    |  | 1 |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SA-4                                              | 289       | 178+37.29 (I-70 EB)  |                      | RT   |                                   |                                    |  |   | 1                                                     |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
|                                                   |           |                      |                      |      |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
|                                                   |           |                      |                      |      |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SJ-3                                              | 335       | 5030+33.13 (RAMP C5) |                      | RT   |                                   |                                    |  |   |                                                       | 1                                                                     |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SJ-10                                             | 372       | 12+05.79 (MOUND ST.) |                      | LT   |                                   |                                    |  |   |                                                       | 1                                                                     |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
|                                                   |           |                      |                      |      |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
|                                                   |           |                      |                      |      |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SP-1                                              | 903       | SA-1                 | SA-2                 | LT   |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           | 84        |  |  |  |  |  |
| SP-2                                              | 903       | SA-2                 | 10+44.58 (SHORT ST.) | LT   |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           | 27        |  |  |  |  |  |
| SP-3                                              | 904       | SA-3                 | SJ-5                 | RT   |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           | 93        |  |  |  |  |  |
|                                                   |           |                      |                      |      |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
|                                                   |           |                      |                      |      |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
|                                                   |           |                      |                      |      |                                   |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-1                                              | 903       | 10+67.93 (SHORT ST.) |                      | LT   |                                   | 1                                  |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-2                                              | 903       | 11+02.45 (SHORT ST.) |                      | LT   |                                   | 1                                  |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-3                                              | 903       | 11+33.92 (SHORT ST.) |                      | LT   |                                   | 1                                  |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-4                                              | 903       | 11+23.77 (SHORT ST.) |                      | LT   |                                   | 1                                  |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-5                                              | 903       | 11+31.55 (SHORT ST.) |                      | LT   |                                   | 1                                  |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-6                                              | 903       | 10+44.58 (SHORT ST.) | SR-1                 | LT   | 21                                |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-7                                              | 903       | SR-1                 | SR-2                 | LT   | 33                                |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-8                                              | 903       | SR-2                 | SR-8                 | LT   | 27                                |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-9                                              | 903       | SR-5                 | SR-3                 | LT   | 7                                 |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-10                                             | 903       | SR-3                 | SA-1                 | LT   | 6                                 |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-11                                             | 903       | SR-4                 | SR-3                 | LT   | 15                                |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-12                                             | 903       | SR-4                 | SR-5                 | LT   | 12                                |                                    |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| SR-13                                             | 289       | 178+37.29 (I-70 EB)  |                      | RT   |                                   | 1                                  |  |   |                                                       |                                                                       |                                                              |  |  |                                                                                                                           |           |  |  |  |  |  |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 219.224</b> |           |                      |                      |      | 121                               | 6                                  |  |   | 3                                                     | 1                                                                     | 2                                                            |  |  |                                                                                                                           | 204       |  |  |  |  |  |

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| REF. NO.                                    | SHEET NO.           | STATION              |             | SIDE      | 605                                                |       | 605                                                     |           | 605                                             |           | 611                                       |           | 611                |      | 611                                |      | FOR INFORMATION ONLY |             |               |             | CALCULATED<br>JMB<br>CHECKED<br>CWL |      |      |
|---------------------------------------------|---------------------|----------------------|-------------|-----------|----------------------------------------------------|-------|---------------------------------------------------------|-----------|-------------------------------------------------|-----------|-------------------------------------------|-----------|--------------------|------|------------------------------------|------|----------------------|-------------|---------------|-------------|-------------------------------------|------|------|
|                                             |                     |                      |             |           | 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |       | 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |           | 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |           | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS |           | 6" CONDUIT, TYPE B |      | PRECAST REINFORCED CONCRETE OUTLET |      | 6" PLUG              | 6" X 6" TEE | 6" X 6" CROSS | 6" 90° BEND |                                     |      |      |
|                                             |                     |                      |             |           | FROM                                               | TO    | FT                                                      | FT        | FT                                              | FT        | FT                                        | FT        | FT                 | FT   | EACH                               | EACH |                      |             |               |             |                                     | EACH | EACH |
|                                             |                     | 01/NHS/PV            | 01/NHS/PV   | 01/NHS/PV | 01/NHS/PV                                          |       |                                                         | 01/NHS/PV | 01/NHS/PV                                       | 01/NHS/PV | 01/NHS/PV                                 | 01/NHS/PV | 01/NHS/PV          |      |                                    |      |                      |             |               |             |                                     |      |      |
| U-1                                         | 677                 | 5024+38.21 (RAMP C5) | OUTLET      | RT        | 125.8                                              | 160.2 |                                                         |           |                                                 |           | 5.7                                       | 7.3       |                    | 4.4  | 5.6                                | 1    |                      |             | 1             | 1           | 1                                   |      |      |
| U-2                                         | 677                 | 5024+38.21 (RAMP C5) | U-1         | RT        |                                                    |       |                                                         | 125.8     | 160.2                                           |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-3                                         | 677                 | 5031+02.19 (RAMP C5) | U-1         | RT        |                                                    |       |                                                         | 165       | 211                                             |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-4                                         | 677                 | 5031+37.30 (RAMP C5) | U-1         | RT        | 180.8                                              | 230.2 |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             | 1           |                                     |      |      |
| U-6                                         | 677                 | 5031+38.41 (RAMP C5) | D-202       | RT        |                                                    |       |                                                         |           |                                                 | 9.2       | 11.8                                      |           | 4.4                | 5.6  |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-7                                         | 677                 | 126+97.68 (I-70 EB)  | EXISTING UD | RT        | 44.9                                               | 57.1  |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-8                                         | 677                 | 126+97.71 (I-70 EB)  | EXISTING UD | LT        |                                                    |       |                                                         | 44.9      | 57.1                                            |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-9                                         | 677                 | 126+97.73 (I-70 EB)  | EXISTING UD | LT        |                                                    |       |                                                         | 44.9      | 57.1                                            |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-10                                        | 677                 | 128+25.37 (I-70 EB)  | D-210       | LT        |                                                    |       | 4.4                                                     | 5.6       |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-11                                        | 677                 | 128+40.00 (I-70 EB)  | D-205       | LT        |                                                    |       | 6.6                                                     | 8.4       |                                                 |           | 4.4                                       | 5.6       |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-12                                        | 677                 | 129+50.00 (I-70 EB)  | D-205       | LT        |                                                    |       |                                                         | 33.4      | 42.6                                            |           | 4.4                                       | 5.6       |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-13                                        | 677                 | 129+50.00 (I-70 EB)  | D-206       | LT/RT     |                                                    |       |                                                         | 37.4      | 47.6                                            |           |                                           |           | 15.8               | 20.2 |                                    |      |                      |             | 1             | 1           |                                     |      |      |
| U-14                                        | 677                 | 128+26.37 (I-70 EB)  | U-13        | RT        |                                                    |       | 17.2                                                    | 21.8      |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-15                                        | 677                 | 128+28.68 (I-70 EB)  | D-209       | RT        |                                                    |       | 2.6                                                     | 3.4       |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-16                                        | 677                 | 129+50.00 (I-70 EB)  | U-13        | RT        | 37.4                                               | 47.6  |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             | 1                                   |      |      |
| U-17                                        | 677                 | 128+25.87 (I-70 EB)  | U-13        | LT        |                                                    |       | 17.2                                                    | 21.8      |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-18                                        | 677                 | 128+40.00 (I-70 EB)  | D-206       | RT        |                                                    |       | 6.6                                                     | 8.4       |                                                 |           | 4.4                                       | 5.6       |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-19                                        | 677                 | 3004+93.21 (RAMP C3) | U-157       | BL        | 268.4                                              | 341.6 |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             | 1           |                                     |      |      |
| U-20                                        | 677                 | 5039+68.62 (RAMP C3) | D-214       | LT        |                                                    |       |                                                         |           | 105.6                                           | 134.4     |                                           |           |                    | 11.9 | 15.1                               |      |                      |             |               | 1           | 1                                   |      |      |
| U-21                                        | 677                 | 5040+28.18 (RAMP C5) | U-300       | BL        | 298.3                                              | 379.7 |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-22                                        |                     |                      |             |           |                                                    |       |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             |               |             |                                     |      |      |
| U-23                                        | 677                 | 3004+93.21 (RAMP C3) | U-158       | RT        |                                                    |       |                                                         | 267.1     | 339.9                                           |           |                                           |           | 2.6                | 3.4  |                                    |      |                      |             | 1             |             | 2                                   |      |      |
| U-24                                        | 677                 | 3007+17.85 (RAMP C3) | EXISTING UD | LT        |                                                    |       |                                                         | 81.4      | 103.6                                           |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-25                                        | 677                 | 3004+93.21 (RAMP C3) | U-26        | LT        |                                                    |       |                                                         | 26.4      | 33.6                                            |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-26                                        | 677                 | 5041+57.96 (RAMP C5) | U-19        | LT        |                                                    |       |                                                         | 111.3     | 141.7                                           |           |                                           |           | 11.4               | 14.6 |                                    |      |                      |             | 1             |             | 1                                   |      |      |
| U-43                                        | 677                 | 266+98.35 (I-71 NB)  | D-62        | LT/RT     |                                                    |       |                                                         | 196.7     | 250.3                                           |           |                                           |           | 17.6               | 22.4 |                                    |      |                      |             | 1             | 1           | 1                                   |      |      |
| U-44                                        | 677                 | 266+98.47 (I-71 NB)  | U-43        | RT        | 187.4                                              | 238.6 |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-45                                        | 677                 | 266+93.38 (I-71 NB)  | D-235       | RT        |                                                    |       |                                                         | 125       | 159                                             |           | 8.4                                       | 10.6      |                    |      |                                    |      |                      |             | 1             |             | 1                                   |      |      |
| U-46                                        | 677                 | 271+83.99 (I-71 NB)  | D-62        | RT        |                                                    |       |                                                         | 20.7      | 26.3                                            |           | 4.4                                       | 5.6       |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-47                                        | 677                 | 5015+07.84 (RAMP A5) | OUTLET      | LT        |                                                    |       |                                                         | 211.2     | 268.8                                           |           | 11.4                                      | 14.6      |                    |      | 1                                  |      |                      |             | 1             |             | 1                                   |      |      |
| U-48                                        | 677                 | 5015+06.59 (RAMP A5) | D-234       | BL        | 223.1                                              | 283.9 |                                                         |           |                                                 |           | 9.2                                       | 11.8      |                    | 3.5  | 4.5                                |      |                      |             | 1             | 1           | 1                                   |      |      |
| U-49                                        | 677                 | 5014+42.61 (RAMP A5) | U-48        | RT        |                                                    |       |                                                         | 193.2     | 245.8                                           |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-50                                        | 677                 | 5010+35.00 (RAMP A5) | U-52        | LT        |                                                    |       |                                                         | 150.9     | 192.1                                           |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-51                                        | 677                 | 5004+53.95 (RAMP A5) | U-193       | RT        |                                                    |       |                                                         | 63.8      | 81.2                                            |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-52                                        | 677                 | 264+00.12 (I-71 NB)  | U-55        | RT        |                                                    |       |                                                         | 137.7     | 175.3                                           |           |                                           |           | 4.8                | 6.2  |                                    |      |                      |             | 1             | 1           | 2                                   |      |      |
| U-53                                        | 677                 | 5009+95.00 (RAMP A5) | U-332       | RT        |                                                    |       |                                                         | 151.4     | 192.6                                           |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-54                                        | 677                 | 263+95.00 (I-71 NB)  | U-332       | LT        |                                                    |       |                                                         | 156.6     | 199.4                                           |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-55                                        | 677                 | 5006+94.28 (RAMP A5) | U-332       | LT        |                                                    |       |                                                         | 19.8      | 25.2                                            |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-56                                        | 677                 | 254+05.00 (I-71 NB)  | D-334       | RT        |                                                    |       |                                                         | 184.8     | 235.2                                           |           | 4.4                                       | 5.6       |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-57                                        | 677                 | 253+53.06 (I-71 NB)  | U-330       | RT/BL     | 279.4                                              | 355.6 |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-58                                        | 677                 | 266+93.56 (I-71 NB)  | OUTLET      | LT        |                                                    |       |                                                         | 132.4     | 168.6                                           |           | 4.8                                       | 6.2       |                    |      | 1                                  |      |                      |             | 1             |             | 1                                   |      |      |
| U-59                                        | 678                 | 5062+02.48 (RAMP C5) | D-70        | RT        |                                                    |       |                                                         | 78.8      | 100.2                                           |           | 4.4                                       | 5.6       |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| U-60                                        | 678                 | 5062+02.48 (RAMP C5) | U-61        | RT        | 83.6                                               | 106.4 |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             | 1             |             |                                     |      |      |
| TOTALS CARRIED TO SUBSUMMARY SHEET 222, 223 |                     |                      |             |           | 1730                                               | 2201  | 55                                                      | 70        |                                                 |           | 2876                                      | 3661      |                    | 71   | 90                                 |      | 73                   | 92          | 1             | 2           |                                     |      |      |
| NO.                                         | DESCRIPTION         |                      |             | REV. BY   | DATE                                               |       |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             |               |             |                                     |      |      |
| 4                                           | FUNDING CODE CHANGE |                      |             | CWL       | 11-29-2021                                         |       |                                                         |           |                                                 |           |                                           |           |                    |      |                                    |      |                      |             |               |             |                                     |      |      |

UNDERDRAIN ESTIMATED QUANTITIES

FRA - 70 / 71 - 12.68 / 14.86

250  
1815

| REF. NO.                                           | SHEET NO. | STATION              |               | SIDE          | 605                                                |               | 605                                                     |               | 605                                             |               | 611                                       |               | 611                |               | 611                                |      | FOR INFORMATION ONLY |             |               |             |      |      |   |   |   |
|----------------------------------------------------|-----------|----------------------|---------------|---------------|----------------------------------------------------|---------------|---------------------------------------------------------|---------------|-------------------------------------------------|---------------|-------------------------------------------|---------------|--------------------|---------------|------------------------------------|------|----------------------|-------------|---------------|-------------|------|------|---|---|---|
|                                                    |           |                      |               |               | 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |               | 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |               | 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |               | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS |               | 6" CONDUIT, TYPE B |               | PRECAST REINFORCED CONCRETE OUTLET |      | 6" PLUG              | 6" X 6" TEE | 6" X 6" CROSS | 6" 90° BEND |      |      |   |   |   |
|                                                    |           |                      |               |               | FROM                                               | TO            | FT                                                      | FT            | FT                                              | FT            | FT                                        | FT            | FT                 | FT            | EACH                               | EACH | EACH                 | EACH        | EACH          | EACH        | EACH | EACH |   |   |   |
|                                                    |           | 01/NHS/<br>PV        | 01/NHS/<br>PV | 01/NHS/<br>PV | 01/NHS/<br>PV                                      | 01/NHS/<br>PV | 01/NHS/<br>PV                                           | 01/NHS/<br>PV | 01/NHS/<br>PV                                   | 01/NHS/<br>PV | 01/NHS/<br>PV                             | 01/NHS/<br>PV | 01/NHS/<br>PV      | 01/NHS/<br>PV | 01/NHS/<br>PV                      |      |                      |             |               |             |      |      |   |   |   |
| U-61                                               | 678       | 5062+65.38 (RAMP C5) | D-70          | LT            |                                                    |               |                                                         |               |                                                 | 83.6          | 106.4                                     |               |                    | 15            | 19                                 |      |                      | 1           | 1             | 1           |      |      |   |   |   |
| U-62                                               | 678       | 5062+65.38 (RAMP C5) | OUTLET        | LT            |                                                    |               |                                                         |               |                                                 | 56.8          | 72.2                                      | 4.8           | 6.2                |               |                                    | 1    |                      | 1           |               |             | 1    |      |   |   |   |
| U-63                                               | 678       | 5071+09.38 (RAMP C5) | D-69          | RT            |                                                    |               |                                                         |               |                                                 | 279.4         | 355.6                                     | 4.4           | 5.6                |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-64                                               | 678       | 5071+18.62 (RAMP C5) | U-66          | BL            |                                                    |               |                                                         |               |                                                 | 57.6          | 73.4                                      |               |                    |               |                                    |      |                      | 1           |               |             | 1    |      |   |   |   |
| U-65                                               | 678       | 6001+86.80 (RAMP C6) | U-61          | LT            |                                                    |               |                                                         |               |                                                 | 318.6         | 405.4                                     |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-66                                               | 678       | 5071+09.38 (RAMP C5) | U-61          | RT            | 314.2                                              | 399.8         |                                                         |               |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           | 1             |             |      |      |   |   |   |
| U-67                                               | 678       | 5071+25.49 (RAMP C5) | D-100         | RT            |                                                    |               |                                                         |               |                                                 |               |                                           | 4.4           | 5.6                |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-68                                               | 678       | 5071+22.36 (RAMP C5) | D-100         | RT            |                                                    |               |                                                         |               |                                                 | 3.5           | 4.5                                       |               |                    | 4.4           | 5.6                                |      |                      | 1           |               |             | 1    |      |   |   |   |
| U-69                                               | 678       | 5071+07.85 (RAMP C5) | D-111         | LT            |                                                    |               |                                                         |               |                                                 | 152.7         | 194.3                                     | 5.7           | 7.3                |               |                                    |      |                      | 1           |               |             | 1    |      |   |   |   |
| U-70                                               | 678       | 5067+59.83 (RAMP C5) | U-62          | LT            |                                                    |               |                                                         |               |                                                 | 163.7         | 208.3                                     |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-71                                               | 678       | 5064+50.96 (RAMP C5) | D-70          | RT            |                                                    |               |                                                         |               |                                                 | 21.1          | 26.9                                      | 4.4           | 5.6                |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-72                                               | 678       | 4158+61.63 (I-70 EB) | EX-40         | LT            |                                                    |               |                                                         |               |                                                 | 16.7          | 21.3                                      | 3.1           | 3.9                | 1.3           | 1.7                                |      |                      | 1           | 1             |             |      |      |   |   |   |
| U-73                                               | 678       | 4166+17.74 (I-70 EB) | U-76          | RT            | 225.3                                              | 286.7         |                                                         |               |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-74                                               | 678       | 4166+05.79 (I-70 EB) | U-76          | RT            |                                                    |               |                                                         |               |                                                 | 219.1         | 278.9                                     |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-75                                               | 678       | 4166+21.70 (I-70 EB) | D-51          | RT            |                                                    |               |                                                         |               |                                                 |               |                                           | 4.4           | 5.6                |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-76                                               | 678       | 4158+01.56 (I-70 EB) | D-50          | RT            | 137.3                                              | 174.7         |                                                         |               |                                                 |               |                                           |               |                    | 10.6          | 13.4                               |      |                      | 1           | 1             | 1           |      |      |   |   |   |
| U-77                                               | 678       | 4165+98.74 (I-70 EB) | U-104         | LT            |                                                    |               |                                                         |               |                                                 | 222.2         | 282.8                                     |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-78                                               | 678       | 4158+01.44 (I-70 EB) | D-224         | RT            |                                                    |               |                                                         |               |                                                 | 2.2           | 2.8                                       | 4.4           | 5.6                |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-79                                               | 678       | 6007+78.50 (RAMP C6) | U-188         | LT            |                                                    |               |                                                         |               |                                                 | 110.0         | 140.0                                     |               |                    |               |                                    |      |                      |             |               |             |      |      |   |   |   |
| U-80                                               | 678       | 4174+15.31 (I-70 EB) | U-164         | LT            |                                                    |               |                                                         |               |                                                 | 158.4         | 201.6                                     |               |                    | 1.3           | 1.7                                |      |                      | 1           |               |             | 2    |      |   |   |   |
| U-81                                               | 678       | 4175+54.17 (I-70 EB) | D-37          | LT            |                                                    |               | 16.7                                                    | 21.3          |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-82                                               | 678       | 4174+20.30 (I-70 EB) | U-188         | RT            |                                                    |               |                                                         |               |                                                 | 41.8          | 53.2                                      |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-83                                               | 678       | 4173+00.00 (I-70 EB) | D-54          | RT            |                                                    |               |                                                         |               |                                                 | 105.2         | 133.8                                     |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-84                                               | 678       | 4175+15.28 (I-70 EB) | U-164         | BL            |                                                    |               |                                                         |               |                                                 | 156.6         | 199.4                                     |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-85                                               | 678       | 4175+63.91 (I-70 EB) | U-188         | BL            |                                                    |               | 21.1                                                    | 26.9          |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-86                                               | 678       | 4175+70.50 (I-70 EB) | U-188         | RT            |                                                    |               | 24.2                                                    | 30.8          |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-87                                               | 678       | 4175+75.76 (I-70 EB) | U-188         | RT            |                                                    |               | 26.4                                                    | 33.6          |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-88                                               | 678       | 4175+79.47 (I-70 EB) | U-188         | RT            |                                                    |               | 29.5                                                    | 37.5          |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-89                                               | 678       | 5077+91.39 (RAMP C5) | U-94          | LT            |                                                    |               | 24.2                                                    | 30.8          |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-90                                               | 678       | 5080+18.54 (RAMP C5) | U-93          | RT            | 99.9                                               | 127.1         |                                                         |               |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-91                                               | 678       | 5080+19.34 (RAMP C5) | U-93          | RT            |                                                    |               |                                                         |               |                                                 | 76.1          | 96.9                                      |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-92                                               | 678       | 5074+46.64 (RAMP C5) | D-259         | RT            |                                                    |               |                                                         |               |                                                 | 106.9         | 136.1                                     | 4.4           | 5.6                |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-93                                               | 678       | 5074+45.18 (RAMP C5) | D-32          | RT            | 152.2                                              | 193.8         |                                                         |               |                                                 |               |                                           |               |                    | 4             | 5                                  |      |                      | 1           | 1             | 1           |      |      |   |   |   |
| U-94                                               | 678       | 5074+89.26 (RAMP C5) | D-35          | LT            |                                                    |               |                                                         |               |                                                 | 65.1          | 82.9                                      | 5.3           | 6.7                |               |                                    |      |                      | 1           | 1             |             |      |      |   |   |   |
| U-95                                               | 678       | 6005+64.47 (RAMP C6) | D-261         | RT            |                                                    |               |                                                         |               |                                                 | 16.7          | 21.3                                      | 4.4           | 5.6                |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-96                                               | 678       | 4174+20.26 (I-70 EB) | D-37          |               |                                                    |               |                                                         |               |                                                 | 42.7          | 54.3                                      |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-97                                               | 678       | 6004+82.50 (RAMP C6) | U-79          | LT            |                                                    |               |                                                         |               |                                                 | 131.1         | 166.9                                     |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-98                                               | 678       | 6005+02.85 (RAMP C6) | U-188         | BL            | 230.6                                              | 293.4         |                                                         |               |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-99                                               | 678       | 4170+03.33 (I-70 EB) | U-164         | RT            | 25.1                                               | 31.9          |                                                         |               |                                                 |               |                                           |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-100                                              |           |                      |               |               |                                                    |               |                                                         |               |                                                 |               |                                           |               |                    |               |                                    |      |                      |             |               |             |      |      |   |   |   |
| U-101                                              | 678       | 5077+05.00 (RAMP C5) | U-93          | RT            |                                                    |               |                                                         |               |                                                 | 37.8          | 48.2                                      |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-104                                              | 678       | 4161+01.00 (I-70 EB) | U-72          | LT            |                                                    |               |                                                         |               |                                                 | 89.8          | 114.2                                     |               |                    |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| U-105                                              | 679       | 4177+06.19 (I-70 EB) | D-192         | LT            |                                                    |               |                                                         |               |                                                 | 103.4         | 131.6                                     | 4.4           | 5.6                |               |                                    |      |                      | 1           |               |             |      |      |   |   |   |
| NO. DESCRIPTION REV. BY DATE                       |           |                      |               |               |                                                    |               |                                                         |               |                                                 |               |                                           |               |                    |               |                                    |      |                      |             |               |             |      |      |   |   |   |
| 4 FUNDING CODE CHANGE CWL 11-29-2021               |           |                      |               |               |                                                    |               |                                                         |               |                                                 |               |                                           |               |                    |               |                                    |      |                      |             |               |             |      |      |   |   |   |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 222, 223</b> |           |                      |               |               | 1185                                               | 1508          | 143                                                     | 181           |                                                 | 2839          | 3614                                      |               |                    | 55            | 69                                 |      |                      | 37          | 47            | 1           | 0    | 38   | 6 | 3 | 6 |

CALCULATED JMB CHECKED CWL  
**UNDERDRAIN ESTIMATED QUANTITIES**  
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| REF. NO.                                      | SHEET NO. | STATION              |             | SIDE       | 605                                                |               | 605                                                     |               | 605                      |  | 605                                             |               | 611                                       |               |               | 611                                       |               |               | FOR INFORMATION ONLY |         |         |             |               |             |   |   |    |   |  |
|-----------------------------------------------|-----------|----------------------|-------------|------------|----------------------------------------------------|---------------|---------------------------------------------------------|---------------|--------------------------|--|-------------------------------------------------|---------------|-------------------------------------------|---------------|---------------|-------------------------------------------|---------------|---------------|----------------------|---------|---------|-------------|---------------|-------------|---|---|----|---|--|
|                                               |           | FROM                 | TO          |            | 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |               | 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |               | 4" BASE PIPE UNDERDRAINS |  | 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |               | 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS |               |               | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS |               |               | 4" 90° BEND          | 4" PLUG | 6" PLUG | 6" X 6" TEE | 6" X 6" CROSS | 6" 90° BEND |   |   |    |   |  |
|                                               |           |                      |             |            | 01/NHS/<br>PV                                      | 01/NHS/<br>PV | 01/NHS/<br>PV                                           | 01/NHS/<br>PV | 01/NHS/<br>PV            |  | 01/NHS/<br>PV                                   | 01/NHS/<br>PV | 01/NHS/<br>PV                             | 01/NHS/<br>PV | 01/NHS/<br>PV |                                           | 01/NHS/<br>PV | 01/NHS/<br>PV | 01/NHS/<br>PV        |         |         |             |               |             |   |   |    |   |  |
| U-106                                         | 679       | 4177+13.59 (I-70 EB) | U-109       | LT         | 106                                                | 135           |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           | 5.3           | 6.7           |                      |         |         |             |               |             | 1 |   |    | 2 |  |
| U-107                                         | 679       | 4177+20.89 (I-70 EB) | D-189       | RT         |                                                    |               |                                                         |               |                          |  | 167.2                                           | 212.8         |                                           |               |               |                                           | 17.6          | 22.4          |                      |         |         |             |               |             | 1 | 2 |    | 1 |  |
| U-108                                         | 679       | 4179+55.60 (I-70 EB) | D-191       | LT         |                                                    |               |                                                         |               |                          |  | 125.4                                           | 159.6         |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             | 1 |   |    |   |  |
| U-109                                         | 679       | 4179+54.21 (I-70 EB) | D-191       | LT         | 130.2                                              | 165.8         |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           | 4.4           | 5.6           |                      |         |         |             |               |             | 1 |   |    | 1 |  |
| U-110                                         | 679       | 4177+30.09 (I-70 EB) | U-107       | RT         | 162.8                                              | 207.2         |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             | 1 |   |    |   |  |
| U-111                                         | 679       | 4177+32.31 (I-70 EB) | U-107       | RT         |                                                    |               |                                                         |               |                          |  | 161.9                                           | 206.1         |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-112                                         | 679       | 4208+14.66 (I-70 EB) | U-147       | LT         | 291.7                                              | 371.3         |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-113                                         | 679       | 5084+57.16 (RAMP C5) | D-43        | LT         |                                                    |               |                                                         |               |                          |  | 120.6                                           | 153.4         |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-114                                         | 679       | 5081+72.76 (RAMP C5) | U-118       | RT         |                                                    |               | 8.8                                                     | 11.2          |                          |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-115                                         | 679       | 5081+73.65 (RAMP C5) | U-118       | RT         |                                                    |               | 8.8                                                     | 11.2          |                          |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-117                                         | 679       | 5085+53.99 (RAMP C5) | U-118       | RT         |                                                    |               |                                                         |               |                          |  | 160.6                                           | 204.4         |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   |   |    |   |  |
| U-118                                         | 679       | 5086+03.90 (RAMP C5) | D-45        | RT         | 183                                                | 233           |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           | 4.0           | 5.0           |                      |         |         |             |               |             | 1 | 1 | 1  |   |  |
| U-119                                         | 679       | 5086+29.61 (RAMP C5) | U-117       | RT         |                                                    |               | 34.8                                                    | 44.2          |                          |  |                                                 |               |                                           |               |               |                                           | 2.6           | 3.4           |                      |         |         |             |               |             |   | 1 |    | 2 |  |
| U-120                                         | 679       | 4179+27.31 (I-70 EB) | D-189       |            |                                                    |               |                                                         |               |                          |  | 71.7                                            | 91.3          |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             | 1 |   |    |   |  |
| U-121                                         | 679       | 4181+05.32 (I-70 EB) | U-123       | RT         |                                                    |               |                                                         |               |                          |  | 101.2                                           | 128.8         |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    | 2 |  |
| U-122                                         | 679       | 4181+12.29 (I-70 EB) | D-188       | RT         |                                                    |               |                                                         |               |                          |  | 78.3                                            | 99.7          |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-123                                         | 679       | 4183+25.00 (I-70 EB) | D-57        | RT         |                                                    |               |                                                         |               |                          |  | 151.4                                           | 192.6         |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-124                                         | 679       | 4182+65.59 (I-70 EB) | D-157       | LT         |                                                    |               |                                                         |               |                          |  | 132.0                                           | 168.0         |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-125                                         | 679       | 4182+55.60 (I-70 EB) | D-254       | LT         | 193.2                                              | 245.8         |                                                         |               |                          |  |                                                 |               |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-126                                         | 679       | 4181+05.44 (I-70 EB) | U-155       | RT         |                                                    |               |                                                         |               |                          |  | 154.9                                           | 197.1         |                                           |               |               |                                           | 5.3           | 6.7           |                      |         |         |             |               |             |   |   |    | 2 |  |
| U-127                                         | 679       | 4208+14.66 (I-70 EB) | U-147       | LT         |                                                    |               |                                                         |               |                          |  | 291.7                                           | 371.3         |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-128                                         | 679       | 4185+90.59 (I-70 EB) | D-154       | LT         |                                                    |               |                                                         |               |                          |  | 45.3                                            | 57.7          |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-129                                         | 680       | 151+38.35 (FRONT)    | U-222       | LT/RT      |                                                    |               |                                                         |               | 83                       |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-132                                         | 680       | 23+15.00 (FULTON)    | D-318       | LT         |                                                    |               |                                                         |               | 313                      |  |                                                 |               |                                           | 10            |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-134                                         | 680       | 21+05.59 (FULTON)    | D-317       | RT         |                                                    |               |                                                         |               | 54                       |  |                                                 |               |                                           | 10            |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-135                                         | 680       | 21+95.00 (FULTON)    | D-315       | RT         |                                                    |               |                                                         |               | 72                       |  |                                                 |               |                                           | 10            |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-136                                         | 680       | 22+90.01 (FULTON)    | D-314       | RT         |                                                    |               |                                                         |               | 80                       |  |                                                 |               |                                           | 10            |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-137                                         | 677       | 31+29.34 (SOUDER)    | EXISTING UD | LT         |                                                    |               |                                                         |               | 50                       |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-138                                         | 677       | 31+28.01 (SOUDER)    | EXISTING UD | RT         |                                                    |               |                                                         |               | 50                       |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-139                                         | 679       | 4186+72.94 (I-70 EB) | D-58        | RT         |                                                    |               |                                                         |               |                          |  | 33                                              | 42            |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-140                                         | 679       | 4188+05.06 (I-70 EB) | D-58        | RT         |                                                    |               |                                                         |               |                          |  | 17.2                                            | 21.8          |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-141                                         | 679       | 4187+10.10 (I-70 EB) | D-255       | LT         | 26.8                                               | 34.2          |                                                         |               |                          |  |                                                 |               |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   |   | 1  |   |  |
| U-142                                         | 679       | 4189+94.29 (I-70 EB) | D-59        | RT         |                                                    |               |                                                         |               |                          |  | 77.4                                            | 98.6          |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-143                                         | 679       | 4193+97.50 (I-70 EB) | D-255       | LT         | 264.9                                              | 337.1         |                                                         |               |                          |  |                                                 |               |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   |   | 1  |   |  |
| U-144                                         | 679       | 4205+28.94 (I-70 EB) | U-149       | RT         | 166.8                                              | 212.2         |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   |   | 1  |   |  |
| U-145                                         | 679       | 4205+28.94 (I-70 EB) | D-331       | RT         |                                                    |               |                                                         |               |                          |  | 117                                             | 149           |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   |   | 1  |   |  |
| U-146                                         | 679       | 4194+02.50 (I-70 EB) | U-147       | LT         |                                                    |               |                                                         |               |                          |  | 330                                             | 420           |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   |   | 1  |   |  |
| U-147                                         | 679       | 4194+02.50 (I-70 EB) | EX-30       | LT         | 330                                                | 420           |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           | 6.2           | 7.8           |                      |         |         |             |               |             | 1 | 1 | 1  |   |  |
| U-148                                         | 679       | 4202+48.27 (I-70 EB) | D-330       | RT         |                                                    |               |                                                         |               |                          |  | 38.7                                            | 49.3          |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-149                                         | 679       | 4194+51.41 (I-70 EB) | D-330       | RT         | 308                                                | 392           |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           | 5.7           | 7.3           |                      |         |         |             |               |             |   | 1 | 1  |   |  |
| U-150                                         | 679       | 4194+02.50 (I-70 EB) | D-329       | RT         |                                                    |               |                                                         |               |                          |  | 294.8                                           | 375.2         |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   | 1 |    |   |  |
| U-151                                         | 679       | 4200+89.05 (I-70 EB) | D-330       | RT         |                                                    |               |                                                         |               |                          |  | 22.9                                            | 29.1          |                                           | 4.4           | 5.6           |                                           |               |               |                      |         |         |             |               |             |   |   | 1  |   |  |
| U-154                                         | 680       | 23+15.00 (FULTON)    | D-318       | RT         |                                                    |               |                                                         |               | 323                      |  |                                                 |               |                                           |               |               | 22                                        |               |               |                      |         |         |             |               |             |   | 1 | 1  |   |  |
| U-155                                         | 679       | 4184+57.04 (I-70 EB) | U-125       | BL         |                                                    |               |                                                         |               |                          |  | 73.9                                            | 94.1          |                                           |               |               |                                           | 10.6          | 13.4          |                      |         |         |             |               |             |   |   |    | 1 |  |
| NO.                                           |           | DESCRIPTION          | REV. BY     | DATE       |                                                    |               |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   |   |    |   |  |
| 4                                             |           | FUNDING CODE CHANGE  | CWL         | 11-29-2021 |                                                    |               |                                                         |               |                          |  |                                                 |               |                                           |               |               |                                           |               |               |                      |         |         |             |               |             |   |   |    |   |  |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEET 222</b> |           |                      |             |            | 2164                                               | 2754          | 53                                                      | 67            | 1025                     |  | 2768                                            | 3522          | 40                                        | 66            | 84            |                                           | 22            | 62            | 79                   |         | 1       | 8           | 33            | 5           | 2 |   | 11 |   |  |

UNDERDRAIN ESTIMATED QUANTITIES

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| REF. NO. | SHEET NO. | STATION              |             | SIDE      | 605                                                |       | 605                                                     |           | 605                                             |       | 611                                       |           | 611                |      | FOR INFORMATION ONLY |             |             |         |             |               |             |
|----------|-----------|----------------------|-------------|-----------|----------------------------------------------------|-------|---------------------------------------------------------|-----------|-------------------------------------------------|-------|-------------------------------------------|-----------|--------------------|------|----------------------|-------------|-------------|---------|-------------|---------------|-------------|
|          |           |                      |             |           | 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |       | 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |           | 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC |       | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS |           | 6" CONDUIT, TYPE B |      | 4" PLUG              | 4" X 4" TEE | 4" 90° BEND | 6" PLUG | 6" X 6" TEE | 6" X 6" CROSS | 6" 90° BEND |
|          |           |                      |             |           | FROM                                               | TO    | FT                                                      | FT        | FT                                              | FT    | FT                                        | FT        | FT                 | FT   | EACH                 | EACH        | EACH        | EACH    | EACH        | EACH          | EACH        |
|          |           | 01/NHS/PV            | 01/NHS/PV   | 01/NHS/PV | 01/NHS/PV                                          |       |                                                         | 01/NHS/PV | 01/NHS/PV                                       |       |                                           | 01/NHS/PV | 01/NHS/PV          |      |                      |             |             |         |             |               |             |
| U-156    | 677       | 5032+65.15 (RAMP C5) | U-304       | LT        |                                                    |       | 2.6                                                     | 3.4       |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-157    | 677       | 5032+50.00 (RAMP C5) | U-302       | RT        |                                                    |       | 26.4                                                    | 33.6      |                                                 |       |                                           |           |                    |      |                      |             |             |         |             |               |             |
| U-158    | 677       | 5032+50.00 (RAMP C5) | U-302       | RT        |                                                    |       | 26.4                                                    | 33.6      |                                                 |       |                                           |           |                    |      |                      |             |             |         |             |               |             |
| U-159    | 677       | 5032+66.46 (RAMP C5) | U-303       | RT        |                                                    |       | 8.4                                                     | 10.6      |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-160    | 677       | 5032+66.98 (RAMP C5) | U-303       | RT        |                                                    |       | 18                                                      | 19        |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-164    | 678       | 4169+79.61 (I-70 EB) | D-54        | LT/RT     |                                                    |       |                                                         |           | 31.7                                            | 40.3  |                                           |           | 31.7               | 40.3 |                      |             |             |         | 1           | 1             | 2           |
| U-165    | 678       | 4169+93.98 (I-70 EB) | U-164       | BL        |                                                    |       |                                                         |           | 29                                              | 37    |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-166    | 678       | 4170+05.70 (I-70 EB) | D-53        | RT        |                                                    |       |                                                         |           | 6.6                                             | 8.4   | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-167    | 679       | 5071+86.95 (RAMP C5) | D-43        | LT        |                                                    |       | 8.4                                                     | 10.6      |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-170    | 677       | 259+51.96 (I-71 NB)  | U-332       | LT        |                                                    |       | 40                                                      | 51        |                                                 |       |                                           |           |                    |      |                      |             |             |         |             |               |             |
| U-180    | 678       | 4157+88.17 (I-70 EB) | D-66        | RT        |                                                    |       |                                                         |           |                                                 |       | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-181    | 678       | 4158+21.00 (I-70 EB) | U-76        | RT        |                                                    |       |                                                         |           | 122.3                                           | 155.7 |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-182    | 678       | 5062+50.38 (RAMP C5) | D-104       | LT        |                                                    |       |                                                         |           |                                                 |       | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-183    | 678       | 5061+87.48 (RAMP C5) | D-114       | RT        |                                                    |       |                                                         |           |                                                 |       | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-184    | 678       | 4174+15.27 (I-70 EB) | U-164       | RT        | 155.3                                              | 197.7 |                                                         |           |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-185    | 678       | 4170+35.04 (I-70 EB) | D-54        | RT        |                                                    |       |                                                         |           | 6.6                                             | 8.4   | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-186    | 678       | 5074+35.45 (RAMP C5) | U-94        | LT        |                                                    |       |                                                         |           | 241.1                                           | 306.9 |                                           |           | 1.8                | 2.2  |                      |             |             |         | 1           |               | 2           |
| U-187    | 678       | 6006+17.04 (RAMP C6) | U-188       | RT        |                                                    |       |                                                         |           | 179.5                                           | 228.5 |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-188    | 678       | 4174+20.30 (I-70 EB) | D-36        | BL/RT     |                                                    |       |                                                         |           | 41.8                                            | 53.2  | 4.8                                       | 6.2       | 26                 | 33   |                      |             |             |         | 1           |               |             |
| U-189    | 677       | 252+86.40 (I-71 NB)  | D-333       | RT        |                                                    |       |                                                         |           | 104                                             | 105   | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-190    | 677       | 252+86.40 (I-71 NB)  | U-191       | BL        | 293                                                | 373   |                                                         |           |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-191    | 677       | 259+51.96 (I-71 NB)  | U-322       | BL        |                                                    |       | 39.6                                                    | 50.4      |                                                 |       |                                           |           |                    |      |                      |             |             |         |             |               |             |
| U-193    | 677       | 5005+99.92 (RAMP A5) | U-322       | RT        |                                                    |       | 22                                                      | 28        |                                                 |       |                                           |           |                    |      |                      |             |             |         |             |               |             |
| U-194    | 677       | 5009+95.00 (RAMP A5) | U-322       | BL        | 151.8                                              | 193.2 |                                                         |           |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-195    | 677       | 266+93.44 (I-71 NB)  | U-322       | RT        | 286.4                                              | 364.6 |                                                         |           |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-196    | 677       | 5015+06.05 (RAMP A5) | D-265       | RT        |                                                    |       |                                                         |           | 16.3                                            | 20.7  | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-197    | 677       | 270+30.35 (I-71 NB)  | D-62        | RT        |                                                    |       |                                                         |           | 37.4                                            | 47.6  | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-198    | 677       | 266+98.53 (I-71 NB)  | D-61        | RT        |                                                    |       |                                                         |           | 135.1                                           | 171.9 | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-199    | 677       | 258+66.57 (I-71 NB)  | U-170       | LT        |                                                    |       |                                                         |           | 37.8                                            | 48.2  |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-200    | 677       | 273+46.55 (I-71 NB)  | D-63        | RT        |                                                    |       |                                                         |           | 64.7                                            | 82.3  | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-201    | 677       | 273+64.54 (I-71 NB)  | U-43        | BL        | 104.3                                              | 132.7 |                                                         |           |                                                 |       |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-202    | 677       | 274+00.40 (I-70 NB)  | U-43        | LT        |                                                    |       |                                                         |           | 123.2                                           | 156.8 |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-203    |           |                      |             |           |                                                    |       |                                                         |           |                                                 |       |                                           |           |                    |      |                      |             |             |         |             |               |             |
| U-204    | 677       | 5031+36.49 (RAMP C5) | U-4         | BL        |                                                    |       |                                                         |           | 107.4                                           | 136.6 |                                           |           | 5.3                | 6.7  |                      |             |             |         | 1           |               | 1           |
| U-206    | 677       | 3007+17.85 (RAMP C3) | EXISTING UD | RT        |                                                    |       |                                                         |           | 79.6                                            | 101.4 |                                           |           |                    |      |                      |             |             |         | 1           |               |             |
| U-207    | 677       | 3004+98.21 (RAMP C3) | D-214       | RT        |                                                    |       |                                                         |           | 88.9                                            | 113.1 | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-208    | 677       | 5041+36.91 (RAMP C5) | D-207       | LT        |                                                    |       |                                                         |           | 370.5                                           | 471.5 | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           | 1             |             |
| U-209    | 677       | 5041+36.91 (RAMP C5) | U-208       | LT        | 48                                                 | 61    |                                                         |           |                                                 |       |                                           |           | 2.6                | 3.4  |                      |             |             |         | 1           |               | 1           |
| U-210    | 677       | 5041+57.96 (RAMP C5) | D-216       | LT        |                                                    |       |                                                         |           | 2.6                                             | 3.4   | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-211    | 677       | 5041+57.96 (RAMP C5) | D-216       | LT        | 7                                                  | 9     |                                                         |           |                                                 |       |                                           |           | 2.6                | 3.4  |                      |             |             |         | 1           |               | 1           |
| U-212    | 677       | 134+05.00 (I-70 EB)  | D-206       | RT        |                                                    |       |                                                         |           | 232.8                                           | 296.2 | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-214    | 679       | 4187+19.93 (I-70 EB) | D-155       | LT        |                                                    |       |                                                         |           | 21.1                                            | 26.9  | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |
| U-215    | 679       | 4193+97.50 (I-70 EB) | D-60        | RT        |                                                    |       |                                                         |           | 172.5                                           | 219.5 | 4.4                                       | 5.6       |                    |      |                      |             |             |         | 1           |               |             |

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

TOTALS CARRIED TO SUBSUMMARY SHEET 222

1046 1332 192 241 2253 2840 76 96 70 90 37 2 2 5

UNDERDRAIN ESTIMATED QUANTITIES  
 CALCULATED JMB  
 CHECKED CWL  
 FRA - 70 / 71 - 12.68 / 14.86  
 252A  
 1815

D:\2012\2012048\FRA\105523\ROADWAY\SHEETS\1055230063.dgn  
 11/22/2021  
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01:201212048\FRA\105523\ROADWAY\SHEETS\10552300951.DGN  
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| REF. NO.                                           | SHEET NO.           | STATION                |                      | SIDE       | 202                               | 202                       | 638                                                                     | 638                                                                     | SPECIAL                                                  |                                                               | SPECIAL                                                       | SPECIAL                                                        | SPECIAL                                                        | SPECIAL                                             | SPECIAL                                   | 638       |                   |
|----------------------------------------------------|---------------------|------------------------|----------------------|------------|-----------------------------------|---------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|-----------|-------------------|
|                                                    |                     | FROM                   | TO                   |            | PIPE REMOVED, 24" AND UNDER<br>FT | VALVE BOX REMOVED<br>EACH | WATER WORK, MISC.:<br>6" WATER MAIN ABANDONED<br>(COLUMBUS 808)<br>EACH | WATER WORK, MISC.:<br>8" WATER MAIN ABANDONED<br>(COLUMBUS 808)<br>EACH | VALVE BOX<br>ADJUSTED TO GRADE<br>(COLUMBUS 807)<br>EACH | CUT AND PLUG EXISTING 6"<br>WATER LINE (COLUMBUS 808)<br>EACH | CUT AND PLUG EXISTING 8"<br>WATER LINE (COLUMBUS 808)<br>EACH | CUT AND PLUG EXISTING 10"<br>WATER LINE (COLUMBUS 808)<br>EACH | CUT AND PLUG EXISTING 12"<br>WATER LINE (COLUMBUS 808)<br>EACH | FIRE HYDRANT<br>ABANDONED<br>(COLUMBUS 809)<br>EACH | FIRE HYDRANT<br>ADJUSTED TO GRADE<br>EACH |           |                   |
|                                                    |                     |                        |                      |            | 01/NHS/PV                         | 01/NHS/PV                 | 01/NHS/PV                                                               | 01/NHS/PV                                                               |                                                          | 01/NHS/PV                                                     | 05/NHS/OT/<br>COL                                             | 01/NHS/PV                                                      | 01/NHS/PV                                                      | 01/NHS/PV                                           | 01/NHS/PV                                 | 01/NHS/PV | 05/NHS/OT/<br>COL |
| WJ-1                                               | 909                 | 5091+16.71 (RAMP C5)   |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-2                                               | 909                 | 5091+28.88 (RAMP C5)   |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-3                                               | 909                 | 19+53.92 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-4                                               | 909                 | 19+15.18 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-5                                               | 909                 | 19+14.97 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-6                                               | 909                 | 20+03.69 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-7                                               | 909                 | 20+05.36 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-8                                               | 909                 | 21+16.11 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-10                                              | 910                 | 22+38.62 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-11                                              | 906                 | 204+89.71 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           | 1         |                   |
| WJ-12                                              | 906                 | 204+91.74 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-13                                              | 906                 | 205+20.36 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-14                                              | 906                 | 205+55.71 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-15                                              | 906                 | 205+65.17 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-16                                              | 906                 | 205+68.76 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-17                                              | 906                 | 205+77.27 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-18                                              | 906                 | 207+15.35 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-19                                              | 906                 | 207+19.90 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-20                                              | 907                 | 200+64.79 (LIVINGSTON) |                      | RT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-21                                              | 909                 | 21+47.96 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WJ-22                                              | 909                 | 151+20.91 (FRONT)      |                      | RT         |                                   |                           |                                                                         |                                                                         | 1                                                        |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-1                                               | 907                 | 4182+97.89 (I-70 EB)   |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     | 1                                         |           |                   |
| WR-2                                               | 907                 | 5086+96.17 (RAMP C5)   | 5087+96.52 (RAMP C5) | RT         | 160                               |                           | 1                                                                       |                                                                         |                                                          | 1                                                             |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-3                                               | 909                 | 19+35.09 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-4                                               | 909                 | 19+83.14 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     | 1                                         |           |                   |
| WR-5                                               | 909                 | 21+15.90 (FULTON)      |                      | LT         |                                   |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     | 1                                         |           |                   |
| WR-6                                               | 281                 | 4161+65.89 (I-70 EB)   |                      | LT         |                                   |                           |                                                                         | 1                                                                       |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-7                                               | 281                 | 4157+93.32 (I-70 EB)   | 4158+14.26 (I-70 EB) | RT         | 25                                |                           |                                                                         |                                                                         |                                                          |                                                               | 2                                                             |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-8                                               | 908                 | 5071+16.06 (RAMP C5)   | 5071+67.74 (RAMP C5) | LT/RT      | 134                               |                           |                                                                         |                                                                         |                                                          |                                                               | 2                                                             |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-9                                               | 908                 | 5071+67.74 (RAMP C5)   |                      | LT         |                                   |                           |                                                                         | 1                                                                       |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-10                                              | 908                 | 4166+58.46 (I-70 EB)   |                      | RT         |                                   |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     | 1                                         |           |                   |
| WR-11                                              | 911                 | 5069+85.12 (RAMP C5)   | 5071+16.06 (RAMP C5) | RT         | 147                               |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-12                                              | 911                 | 5070+83.82 (RAMP C5)   | 5071+16.06 (RAMP C5) | RT         | 66                                |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                | 1                                                              | 2                                                   |                                           |           |                   |
| WR-13                                              | 908                 | 5071+12.17 (RAMP C5)   | 4167+06.59 (I-70 EB) | LT/RT      | 262                               |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| WR-14                                              | 910                 | 22+38.73 (FULTON)      |                      | LT         |                                   |                           | 1                                                                       |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| NO.                                                | DESCRIPTION         |                        | REV. BY              | DATE       |                                   |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| 4                                                  | FUNDING CODE CHANGE |                        | CWL                  | 11-29-2021 |                                   |                           |                                                                         |                                                                         |                                                          |                                                               |                                                               |                                                                |                                                                |                                                     |                                           |           |                   |
| <b>TOTALS CARRIED TO SUBSUMMARY SHEETS 219.224</b> |                     |                        |                      |            | 794                               | 4                         | 1                                                                       | 2                                                                       |                                                          | 11                                                            | 9                                                             | 1                                                              | 4                                                              | 1                                                   | 2                                         | 4         | 1                 |

CALCULATED JMB CHECKED CWL  
**WATER WORK ESTIMATED QUANTITIES**  
**FRA - 70 / 71 - 12.68 / 14.86**  
 254  
 1815

01:2012\2012048\FRA\105523\ROADWAY\SHEETS\1055230202.DGN  
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| STATION                                                  |                        | SIDE  | LENGTH | AVERAGE WIDTH<br>W | SURFACE AREA<br>A<br>A = L x W | CADD AREAS | 202              |           |                | 202                       |           |                | 202          |                          | 202       |                        |           | 202          |                |           |    |    |  |       |                         |  |
|----------------------------------------------------------|------------------------|-------|--------|--------------------|--------------------------------|------------|------------------|-----------|----------------|---------------------------|-----------|----------------|--------------|--------------------------|-----------|------------------------|-----------|--------------|----------------|-----------|----|----|--|-------|-------------------------|--|
|                                                          |                        |       |        |                    |                                |            | PAVEMENT REMOVED |           |                | PAVEMENT REMOVED, ASPHALT |           |                | WALK REMOVED | CONCRETE BARRIER REMOVED |           | TRAFFIC ISLAND REMOVED |           | CURB REMOVED |                |           |    |    |  |       | CURB AND GUTTER REMOVED |  |
| FROM                                                     | TO                     |       |        |                    |                                |            | SY               |           |                | SY                        |           |                | SF           | FT                       |           | SY                     |           |              | FT             |           |    | FT |  |       |                         |  |
|                                                          |                        |       |        |                    |                                |            | 01/NHS/PV        | 01/NHS/PV | 05/NHS/OT /COL | 01/NHS/PV                 | 01/NHS/PV | 05/NHS/OT /COL | 01/NHS/PV    | 01/NHS/PV                | 01/NHS/PV | 01/NHS/PV              | 01/NHS/PV | 01/NHS/PV    | 05/NHS/OT /COL | 01/NHS/PV |    |    |  |       |                         |  |
| DRIVEWAYS                                                |                        |       |        |                    |                                |            |                  |           |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| DV-1                                                     | 20+20.46 (FULTON)      |       |        |                    |                                | 570.75     | 63.42            |           |                |                           |           |                |              |                          |           |                        |           |              | 12.83          | 16.33     |    |    |  |       |                         |  |
| DV-2                                                     | 20+55.92 (FULTON)      |       |        |                    |                                | 574.64     | 63.85            |           |                |                           |           |                |              |                          |           |                        |           |              | 13.00          | 16.55     |    |    |  |       |                         |  |
| DV-3                                                     | 21+37.66 (FULTON)      |       |        |                    |                                | 370.84     | 41.20            |           |                |                           |           |                |              |                          |           |                        |           |              | 6.15           | 7.83      |    |    |  |       |                         |  |
| DV-4                                                     | 152+11.68 (FRONT)      |       |        |                    |                                | 864.05     | 96.01            |           |                |                           |           |                |              |                          |           |                        |           |              | 15.12          | 19.24     |    |    |  |       |                         |  |
| DV-5                                                     | 202+00.00 (LIVINGSTON) |       |        |                    |                                | 479.69     | 53.30            |           |                |                           |           |                |              |                          |           |                        |           |              | 2.41           | 3.06      |    |    |  |       |                         |  |
| DV-5                                                     | 202+00.00 (LIVINGSTON) |       |        |                    |                                | 521.00     |                  |           |                | 57.89                     |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| DV-6                                                     | GATEWELL #4            |       |        |                    |                                | 320.72     | 35.64            |           |                |                           |           |                |              |                          |           |                        |           |              | 16.41          | 20.89     |    |    |  |       |                         |  |
| DV-8                                                     | 204+61.50 (LIVINGSTON) |       |        |                    |                                | 235.26     |                  | 26.14     |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  | 29.24 |                         |  |
| DV-8                                                     | 204+61.50 (LIVINGSTON) |       |        |                    |                                | 148.37     |                  |           |                |                           | 16.49     |                |              |                          |           |                        |           |              |                |           |    |    |  | 14.01 |                         |  |
| DV-9                                                     | 205+69.33 (LIVINGSTON) |       |        |                    |                                | 320.13     |                  | 35.57     |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  | 37.73 |                         |  |
| DV-9                                                     | 205+69.33 (LIVINGSTON) |       |        |                    |                                | 18.38      |                  |           |                |                           | 2.04      |                |              |                          |           |                        |           |              |                |           |    |    |  | 1.54  |                         |  |
| DV-11                                                    | 5009+25.00 (RAMP A5)   |       |        |                    |                                | 843.74     | 93.75            |           |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| DV-11                                                    | 5009+25.00 (RAMP A5)   |       |        |                    |                                | 47.39      |                  |           |                | 5.27                      |           |                |              |                          |           |                        |           |              | 10.80          | 13.74     |    |    |  |       |                         |  |
| PARKING LOT                                              |                        |       |        |                    |                                |            |                  |           |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
|                                                          | LIVINGSTON & 2ND ST    |       |        |                    |                                | 2895.44    |                  |           |                | 321.72                    |           |                |              |                          |           |                        |           |              | 80.40          | 102.33    |    |    |  |       |                         |  |
| SOUDER AVE                                               |                        |       |        |                    |                                |            |                  |           |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 5+63.70                                                  | 6+13.55                | LT    |        |                    |                                | 216.20     |                  |           |                | 24.02                     |           |                | 327.46       |                          |           |                        |           |              | 20.48          |           |    |    |  | 29.39 |                         |  |
| 5+61.73                                                  | 6+12.28                | RT    |        |                    |                                | 220.85     |                  |           |                | 24.54                     |           |                | 343.35       |                          |           |                        |           |              | 20.07          |           |    |    |  | 30.48 |                         |  |
| NORTHBOUND I.R. 71                                       |                        |       |        |                    |                                |            |                  |           |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 252+86.40                                                | 258+90.12              | LT/RT |        |                    |                                | 16252.93   | 794.59           | 1011.29   |                |                           |           |                |              |                          | 10.18     | 12.96                  |           |              | 26.00          | 33.00     |    |    |  |       |                         |  |
| 252+86.40                                                | 258+90.12              | RT    |        |                    |                                | 4619.63    |                  |           |                | 225.85                    | 287.44    |                |              |                          |           |                        |           |              | 164.10         | 208.85    |    |    |  |       |                         |  |
| 5004+30.62 (RAMP A5)                                     | 5008+68.87 (RAMP A5)   | LT    |        |                    |                                | 930.35     |                  |           |                | 45.48                     | 57.89     |                |              |                          |           |                        |           |              | 196.06         | 249.53    |    |    |  |       |                         |  |
| 5004+30.62 (RAMP A5)                                     | 5008+68.87 (RAMP A5)   | LT/RT |        |                    |                                | 7633.28    | 373.18           | 474.96    |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 5004+30.62 (RAMP A5)                                     | 5008+68.87 (RAMP A5)   | RT    |        |                    |                                | 3756.43    |                  |           |                | 183.65                    | 233.73    |                |              |                          |           |                        |           |              | 49.62          | 63.15     |    |    |  |       |                         |  |
| 5011+81.5 (RAMP A5)                                      | 5018+60.36 (RAMP A5)   | LT    |        |                    |                                | 2757.31    |                  |           |                | 134.80                    | 171.57    |                |              |                          |           |                        |           |              | 324.14         | 412.55    |    |    |  |       |                         |  |
| 5011+81.5 (RAMP A5)                                      | 5018+60.36 (RAMP A5)   | LT/RT |        |                    |                                | 12002.49   | 586.79           | 746.82    |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 5011+81.5 (RAMP A5)                                      | 5018+60.36 (RAMP A5)   | RT    |        |                    |                                | 4001.93    |                  |           |                | 195.65                    | 249.01    |                |              |                          |           |                        |           |              | 250.86         | 319.28    |    |    |  |       |                         |  |
| 93497 TEMP RAMP (N.B. 71)                                |                        | LT/RT |        |                    |                                | 14797.78   |                  |           |                | 723.45                    | 920.75    |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| RAMP BC                                                  |                        |       |        |                    |                                |            |                  |           |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| SHOULDER                                                 |                        | LT    |        |                    |                                | 3124.23    |                  |           |                | 152.74                    | 194.40    |                |              |                          |           |                        |           |              | 313.60         | 399.13    |    |    |  |       |                         |  |
| LANE                                                     |                        | LT/RT |        |                    |                                | 15577.76   | 761.58           | 969.28    |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| SHOULDER                                                 |                        | RT    |        |                    |                                | 9511.25    |                  |           |                | 464.99                    | 591.81    |                |              |                          |           |                        |           |              | 252.56         | 321.44    |    |    |  |       |                         |  |
| PUMP STATION DRIVE                                       |                        | RT    |        |                    |                                | 1454.24    | 71.10            | 90.49     |                |                           |           |                | 11.04        | 14.04                    |           |                        |           |              | 52.20          | 66.43     |    |    |  |       |                         |  |
| RAMP C3                                                  |                        |       |        |                    |                                |            |                  |           |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 3002+01.52                                               | 3009+00.00             | LT    |        |                    |                                | 3508.11    |                  |           |                | 171.51                    | 218.28    |                |              |                          | 4.11      | 5.24                   |           |              | 273.13         | 347.61    |    |    |  |       |                         |  |
| 3000+16.87                                               | 3009+00.00             | LT/RT |        |                    |                                | 14766.27   | 721.91           | 918.79    |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 3000+16.87                                               | 3009+00.00             | RT    |        |                    |                                | 8662.39    |                  |           |                | 423.49                    | 538.99    |                |              |                          |           |                        |           |              | 396.19         | 504.25    |    |    |  |       |                         |  |
| EASTBOUND I.R. 70                                        |                        |       |        |                    |                                |            |                  |           |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 125+96.00                                                | 127+28.39              | LT    |        |                    |                                | 1246.73    |                  |           |                | 60.95                     | 77.57     |                |              | 110.62                   | 140.78    |                        |           |              |                |           |    |    |  |       |                         |  |
| 119+98.35                                                | 127+28.39              | LT/RT |        |                    |                                | 13275.88   | 649.04           | 826.05    |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 119+98.35                                                | 127+28.39              | RT    |        |                    |                                | 7498.50    |                  |           |                | 366.59                    | 466.57    |                |              |                          |           |                        |           |              | 320.42         | 407.81    |    |    |  |       |                         |  |
| 127+96.76                                                | 129+50.00              | LT    |        |                    |                                | 1477.33    |                  |           |                | 72.23                     | 91.92     |                |              |                          |           |                        |           |              | 69.09          | 87.94     |    |    |  |       |                         |  |
| 127+96.76                                                | 130+51.85              | LT/RT |        |                    |                                | 9092.74    | 444.53           | 565.77    |                |                           |           |                |              |                          |           |                        |           |              |                |           |    |    |  |       |                         |  |
| 127+96.76                                                | 130+51.85              | RT    |        |                    |                                | 2575.00    |                  |           |                | 125.89                    | 160.22    |                |              |                          |           |                        |           |              | 108.96         | 138.68    |    |    |  |       |                         |  |
| <b>TOTALS CARRIED TO ROADWAY SUBSUMMARY ON SHEET 219</b> |                        |       |        |                    |                                |            | 4850             | 5604      | 62             | 3781                      | 4261      | 19             | 671          | 122                      | 155       | 15                     | 19        | 2995         | 3760           | 83        | 60 |    |  |       |                         |  |

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| NO. | DESCRIPTION         | REV. BY | DATE       |
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

CALCULATED CJC  
 CHECKED CWL  
**FRA - 70 / 71 - 12.68 / 14.86**  
 256  
 1815

**PAVEMENT REMOVAL CALCULATIONS**

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| STATION                                                  | SIDE       | LENGTH | AVERAGE WIDTH<br>W | SURFACE AREA<br>A<br>A=LxW | CADD AREAS | 202                 |         | 202                          |      |              | 202   |                             | 202    |                           | 202     |              | 202  |         | 202    |     | REMOVAL MISC.: TRAFFIC<br>BOLLARDS REMOVED | REMOVAL MISC.: BRICK PAVERS<br>REMOVED AND SALVAGED | CALCULATED<br>CJC<br>CHECKED<br>CWL |
|----------------------------------------------------------|------------|--------|--------------------|----------------------------|------------|---------------------|---------|------------------------------|------|--------------|-------|-----------------------------|--------|---------------------------|---------|--------------|------|---------|--------|-----|--------------------------------------------|-----------------------------------------------------|-------------------------------------|
|                                                          |            |        |                    |                            |            | PAVEMENT<br>REMOVED |         | PAVEMENT REMOVED,<br>ASHPALT |      | WALK REMOVED |       | CONCRETE BARRIER<br>REMOVED |        | TRAFFIC ISLAND<br>REMOVED |         | CURB REMOVED |      |         |        |     |                                            |                                                     |                                     |
| FROM                                                     | TO         |        |                    |                            |            | SY                  | SY      | SF                           | FT   | FT           | SF    | FT                          | SF     | FT                        | FT      | SF           | FT   | FT      | SF     |     |                                            |                                                     |                                     |
| EASTBOUND I.R. 70 CONT                                   |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4158+21.33                                               | 4166+10.19 | LT     |                    |                            | 7448.29    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4158+21.33                                               | 4166+10.19 | RT     |                    |                            | 2076.80    | 101.53              | 129.22  |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4158+21.33                                               | 4166+10.19 | RT     |                    |                            | 7158.31    |                     |         |                              |      |              |       |                             | 62.14  | 79.08                     |         |              |      | 289.21  | 368.09 |     |                                            |                                                     |                                     |
| 4169+93.98                                               | 4175+63.91 | LT     |                    |                            | 4741.65    |                     |         |                              |      |              |       |                             | 39.59  | 50.38                     |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4169+93.98                                               | 4175+63.91 | LT/RT  |                    |                            | 29156.00   | 1425.4              | 1814.15 |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4169+93.98                                               | 4175+63.91 | RT     |                    |                            | 6232.62    |                     |         |                              |      |              |       |                             |        |                           |         |              |      | 253.73  | 322.93 |     |                                            |                                                     |                                     |
| 4177+06.24                                               | 4208+14.75 | LT     |                    |                            | 25248.72   |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4177+06.24                                               | 4186+25.00 | LT/RT  |                    |                            | 43131.49   | 2108.65             | 2683.74 |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4186+25.00                                               | 4195+78.19 | LT     |                    |                            | 2884.96    | 141.04              | 179.51  |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4177+06.24                                               | 4186+25.00 | RT     |                    |                            | 5838.34    |                     |         |                              |      |              |       |                             |        |                           | 1480.80 | 1884.66      |      | 408.74  | 520.21 |     |                                            |                                                     |                                     |
| 4187+96.15                                               | 4189+69.92 | RT     |                    |                            | 4428.18    |                     |         |                              |      |              |       |                             | 55.12  | 70.15                     |         |              |      | 518.01  | 659.28 |     |                                            |                                                     |                                     |
| WESTBOUND I.R. 70                                        |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 542+50.00                                                | 544+03.63  | LT     |                    |                            | 1408.86    | 68.88               | 87.66   |                              |      |              |       |                             | 64.50  | 82.09                     |         |              |      | 1.52    | 1.94   |     |                                            |                                                     |                                     |
| 540+94.35                                                | 544+58.70  | RT     |                    |                            | 2801.58    | 136.97              | 174.32  |                              |      |              |       |                             | 160.21 | 203.90                    |         |              |      |         |        |     |                                            |                                                     |                                     |
| RAMP FROM I.R. 70 TO FRONT ST                            |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4181+61.77                                               | 4184+26.27 | RT     |                    |                            | 3846.45    | 188.05              | 239.33  |                              |      |              |       |                             |        |                           | 197.77  | 251.7        |      | 120.30  | 153.11 |     |                                            |                                                     |                                     |
| 4181+61.77                                               | 4184+26.27 | RT     |                    |                            | 157.88     |                     |         |                              |      |              |       |                             |        |                           |         |              |      | 79.53   | 101.22 |     |                                            |                                                     |                                     |
| RAMP FROM I.R. 70 TO 3RD ST                              |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4186+25.00                                               | 4197+04.60 | RT     |                    |                            | 1985.45    |                     |         |                              |      |              |       |                             | 55.96  | 71.22                     | 150.03  | 190.94       |      | 275.28  | 350.35 |     |                                            |                                                     |                                     |
| 4186+25.00                                               | 4196+76.51 | RT     |                    |                            | 16310.34   | 797.39              | 1014.87 |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 4186+25.00                                               | 4196+51.73 | RT     |                    |                            | 7582.15    |                     |         |                              |      |              |       |                             | 314.34 | 400.06                    |         |              |      | 149.48  | 190.24 |     |                                            |                                                     |                                     |
| LIVINGSTON AVE                                           |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 200+02.98                                                | 204+02.12  | LT/RT  |                    |                            | 17164.52   |                     |         |                              |      |              |       |                             |        |                           | 240.45  | 306.03       |      | 1239.75 |        |     |                                            |                                                     |                                     |
| 200+02.98                                                | 204+02.12  | LT/RT  |                    |                            | 12988.12   |                     |         |                              |      |              |       |                             |        |                           |         |              |      | 521.73  |        |     |                                            |                                                     |                                     |
| 204+02.12                                                | 207+47.00  | LT/RT  |                    |                            | 11104.76   |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            | 4067.04                                             |                                     |
| 2ND ST                                                   |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 0+17.25                                                  | 0+99.48    | LT/RT  |                    |                            | 1816.45    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| FRONT ST                                                 |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 146+75.00                                                | 148+25.58  | LT/RT  |                    |                            | 2360.33    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            | 161.43                                              |                                     |
| 148+25.58                                                | 148+61.91  | LT/RT  |                    |                            | 2319.33    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            | 32.47                                               |                                     |
| 148+93.42                                                | 149+19.59  | LT/RT  |                    |                            | 1780.32    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 150+60.34                                                | 151+19.35  | LT/RT  |                    |                            | 3398.02    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 151+19.35                                                | 151+40.35  | LT/RT  |                    |                            | 1151.26    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 151+40.35                                                | 152+50.00  | LT/RT  |                    |                            | 5852.62    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 148+78.00                                                | 150+60.22  | RT     |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            | 182.21                                              |                                     |
| 150+65.07                                                | 152+11.68  | LT     |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            | 146.61                                              |                                     |
| FULTON ST                                                |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 19+24.33                                                 | 23+15.00   | LT/RT  |                    |                            | 17192.18   |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| MOUND ST                                                 |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 11+49.85                                                 | 12+53.78   | LT/RT  |                    |                            | 7132.68    |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| WEST MOUND ST                                            |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 23+48.52                                                 | 25+21.36   | LT     |                    |                            | 525.70     | 58.41               |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| WHITTIER ST                                              |            |        |                    |                            |            |                     |         |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| 9+00.00                                                  | EX. A.S.   | LT/RT  |                    |                            | 8591.05    | 420.01              | 534.55  |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| EX. A.S.                                                 | 17+00.00   | LT/RT  |                    |                            | 4608.95    | 225.33              | 286.78  |                              |      |              |       |                             |        |                           |         |              |      |         |        |     |                                            |                                                     |                                     |
| <b>TOTALS CARRIED TO ROADWAY SUBSUMMARY ON SHEET 219</b> |            |        |                    |                            |            | 5672                | 7145    | 11591                        | 4407 | 1234         | 23372 | 2612                        | 4      | 752                       | 957     | 2070         | 2634 | 5747    | 3194   | 585 | 359                                        | 194                                                 | 4068                                |

**PAVEMENT REMOVAL CALCULATIONS**

**FRA - 70 / 71-12.68 / 14.86**

(257)  
1815

|     |                     |         |            |
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| NO. | DESCRIPTION         | REV. BY | DATE       |
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

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| REF. NO.                                          | SHEET NO. | STATION/LOCATION | ALIGNMENT  | SIDE  | USAGE  | TYPE | EXISTING MATERIAL | SURFACE AREA 1<br>(CADD AREA) | SURFACE AREA 2<br>(CADD AREA) | 204           |               | 304           |                   | 305           |                   | 407           |                   | 407           |                   | 441           |                   | 441           |                   | 452               |               | 609           | 204           | 609               | 609 |
|---------------------------------------------------|-----------|------------------|------------|-------|--------|------|-------------------|-------------------------------|-------------------------------|---------------|---------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|-------------------|---------------|---------------|---------------|-------------------|-----|
|                                                   |           |                  |            |       |        |      |                   | SF                            | SF                            | SY            |               | CY            |                   | SY            |                   | GAL           |                   | GAL           |                   | CY            |                   | CY            |                   | SY                |               | FT            | SY            | FT                | FT  |
|                                                   |           |                  |            |       |        |      |                   | 01/NHS/<br>PV                 | 05/NHS/<br>OT/COL             | 01/NHS/<br>PV | 01/NHS/<br>PV | 01/NHS/<br>PV | 05/NHS/<br>OT/COL | 01/NHS/<br>PV | 05/NHS/<br>OT/COL | 01/NHS/<br>PV | 05/NHS/<br>OT/COL | 01/NHS/<br>PV | 05/NHS/<br>OT/COL | 01/NHS/<br>PV | 05/NHS/<br>OT/COL | 01/NHS/<br>PV | 05/NHS/<br>OT/COL | 06/ENH/<br>OT/COL | 01/NHS/<br>PV | 01/NHS/<br>PV | 01/NHS/<br>PV | 05/NHS/<br>OT/COL |     |
| DV-1                                              | 370,584   | 20+20.46         | FULTON ST. | LT    | COMM.  | -    | CONC.             | 138.13                        | 75.92                         | 23.78         |               |               |                   |               |                   |               |                   |               |                   |               |                   |               | 23.78             |                   |               |               |               |                   |     |
| DV-2                                              | 370,584   | 20+55.92         | FULTON ST. | LT    | COMM.  | -    | CONC.             | 144.91                        | 95.50                         | 26.71         |               |               |                   |               |                   |               |                   |               |                   |               |                   |               | 26.71             |                   |               |               |               |                   |     |
| DV-3                                              | 370       | 21+37.66         | FULTON ST. | LT    | COMM.  | 1    | CONC.             | 119.55                        | 77.11                         | 21.85         |               |               |                   |               |                   |               |                   |               |                   |               |                   |               | 21.85             | 15.62             |               |               |               |                   |     |
| DV-4                                              | 368-369   | 152+11.68        | FRONT ST.  | LT    | COMM.  | 1    | CONC.             | 334.59                        | 193.14                        | 58.64         |               |               |                   |               |                   |               |                   |               |                   |               |                   |               | 58.64             | 15.62             |               |               |               |                   |     |
| DV-5                                              | 585       | 202+00.00        | LIVINGSTON | RT    | COMM.  | -    | ASPHALT           | 365.51                        | 777.20                        | 126.97        |               |               | 86.36             | 6.04          |                   | 4.75          |                   | 3.6           |                   | 4.2           |                   |               | 40.61             |                   |               |               |               |                   |     |
| DV-6                                              | 586-587   | GATEWELL #4      |            |       | FIELD  | -    | GRAVEL            | 999.98                        | 5109.34                       | 678.81        |               | 55.51         | 70.65             |               |                   |               |                   |               |                   |               |                   |               | 111.11            |                   |               | 163.16        |               |                   |     |
| DV-7                                              | 588       | RAILROAD         |            |       | FIELD  | -    | GRAVEL            | 464.60                        | 6583.59                       | 783.13        |               | 71.53         | 91.03             |               |                   |               |                   |               |                   |               |                   |               | 51.62             |                   |               |               | 43.83         |                   |     |
| DV-8                                              | 375       | 204+61.50        | LIVINGSTON | RT    | COMM.  | 2A   | ASPHALT           | 146.12                        | 113.04                        |               | 28.80         |               |                   | 12.56         |                   | 0.88          |                   | 0.69          |                   | 0.52          |                   | 0.61          |                   | 16.24             |               |               |               | 23.51             |     |
| DV-9                                              | 375       | 205+69.33        | LIVINGSTON | RT    | COMM.  | 2B   | CONC.             | 220.93                        |                               |               | 24.55         |               |                   |               |                   |               |                   |               |                   |               |                   |               | 24.55             |                   |               |               |               | 15.42             |     |
| DV-10                                             | 318-320   | GATEWELL #5      |            |       | ACCESS | -    | ASPHALT           |                               | 22046.87                      | 2449.65       |               | 239.52        | 304.85            |               |                   |               |                   |               |                   |               |                   |               |                   |                   |               |               |               |                   |     |
| DV-11                                             | 318       | 5009+25.00       | RAMP A5    | RT    | FIELD  | 3    | ASPHALT           | 764.49                        | 844.00                        | 178.72        |               |               |                   | 93.78         |                   | 6.56          |                   | 5.16          |                   | 3.91          |                   | 4.56          |                   | 84.94             |               |               |               |                   |     |
| DV-12                                             | 304-323   | RIVER ACCESS     |            |       | FIELD  | -    | GRAVEL            | 24694.00                      | 2743.78                       |               |               | 268.28        | 341.45            |               |                   |               |                   |               |                   |               |                   |               |                   |                   |               |               |               |                   |     |
| DV-13                                             | 350       | ELECTRIC         |            |       | FIELD  | -    | GRAVEL            | 2841.98                       | 315.78                        |               |               | 30.88         | 39.30             |               |                   |               |                   |               |                   |               |                   |               |                   |                   |               |               |               |                   |     |
| DV-14                                             | 638-638A  | RAILROAD         |            |       | FIELD  | -    | GRAVEL            | 3829.82                       | 425.54                        |               |               | 41.61         | 52.96             |               |                   |               |                   |               |                   |               |                   |               |                   |                   |               |               |               |                   |     |
| DV-15                                             | 352-356   | RR X-ING ACCESS  |            |       | FIELD  | -    | GRAVEL            | 16477.74                      | 1830.86                       |               |               | 179.02        | 227.84            |               |                   |               |                   |               |                   |               |                   |               |                   |                   | 1830.86       |               |               |                   |     |
|                                                   | 590       | PARKING LOT      | LIVINGSTON | LT/RT |        | -    | ASPHALT           |                               | 3061.70                       | 340.19        |               |               |                   | 340.19        |                   | 23.81         |                   | 18.71         |                   | 14.17         |                   | 16.54         |                   |                   |               |               |               | 249.44            |     |
| <b>TOTALS CARRIED TO GENERAL SUMMARY 211, 216</b> |           |                  |            |       |        |      |                   | 10005                         | 54                            | 887           | 1129          | 521           | 13                | 37            | 1                 | 29            | 1                 | 22            | 1                 | 26            | 1                 | 420           | 41                | 32                | 1831          | 164           | 294           | 39                |     |

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

CALCULATED CJC  
 CHECKED CWL  
**DRIVE CALCULATIONS**  
**FRA - 70 / 71 - 12.68 / 14.86**  
 258  
 1815

D:\2012\2012048\FRA\105525\ROADWAY\SHEETS\105525C004.DGN  
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| STATION        | SIDE      | LENGTH | AVERAGE WIDTH<br>W | SURFACE AREA<br>A<br>A = L x W | CADD AREAS | 608              |           |               | 608              |           |               | 608                                        |                                              |                                                       | 608                              |        |           |               |
|----------------|-----------|--------|--------------------|--------------------------------|------------|------------------|-----------|---------------|------------------|-----------|---------------|--------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------|--------|-----------|---------------|
|                |           |        |                    |                                |            | 4" CONCRETE WALK |           |               | 8" CONCRETE WALK |           |               | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE A | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE P-7 | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE P-4 MODIFIED | WALKWAY, MISC.: BRICK PAVER WALK |        |           |               |
| FROM           | TO        |        |                    |                                |            | SF               |           |               | SF               |           |               | EACH                                       | EACH                                         | EACH                                                  | SF                               |        |           |               |
| LIVINGSTON AVE |           |        |                    |                                |            | 01/NHS/PV        | 04/MPO/OT | 05/NHS/OT/COL | 01/NHS/PV        | 04/MPO/OT | 05/NHS/OT/COL |                                            | 01/NHS/PV                                    | 01/NHS/PV                                             | 01/NHS/PV                        |        | 04/MPO/OT | 06/ENH/OT/COL |
| 203+92.24      | 203+94.99 | LT     | 2.75               | 5.00                           | 13.75      |                  |           | 13.75         |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 203+94.99      | 205+51.56 | LT     | 156.57             | 10.00                          | 1565.70    |                  |           | 1565.70       |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 205+51.56      | 205+54.52 | LT     | 2.96               | 10.20                          | 30.19      |                  |           | 30.19         |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 205+54.52      | 206+01.15 | LT     | 46.63              | 12.34                          | 575.41     |                  |           | 575.41        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 206+01.15      | 206+19.39 | LT     | 18.24              | 15.21                          | 277.43     |                  |           | 277.43        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 206+19.39      | 207+31.89 | LT     | 112.5              | 13.50                          | 1518.75    |                  |           | 1518.75       |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 207+31.89      | 207+47.00 | LT     | 15.11              | 19.17                          | 289.66     |                  |           | 289.66        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 200+04.37      | 200+42.61 | RT     | 38.24              | 7.00                           | 267.68     |                  |           | 267.68        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 200+42.61      | 200+46.21 | RT     |                    |                                | CADD       | 22.23            |           | 22.23         |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 200+46.21      | 200+59.83 | RT     |                    |                                | CADD       | 129.69           |           | 119.66        | 10.03            |           |               |                                            |                                              |                                                       | 1                                |        |           |               |
| 200+86.31      | 201+02.97 | RT     |                    |                                | CADD       | 133.67           |           | 123.61        | 10.06            |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 201+02.97      | 201+64.67 | RT     | 61.70              | 7.00                           | 431.90     |                  |           | 431.90        |                  |           |               |                                            |                                              | 1                                                     |                                  |        |           |               |
| 201+64.67      | 201+72.99 | RT     | 8.32               | 7.00                           | 58.24      |                  |           |               | 58.24            |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 202+24.80      | 202+31.48 | RT     |                    |                                | CADD       | 49.41            |           | 49.41         |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 202+31.48      | 202+43.98 | RT     |                    |                                | CADD       | 93.09            |           | 93.09         |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 202+43.98      | 202+54.35 | RT     | 10.37              | 7.00                           | 72.59      |                  |           | 72.59         |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 202+54.35      | 203+01.10 | RT     |                    |                                | CADD       | 984.85           |           |               | 3.48             | 29.11     |               |                                            |                                              |                                                       |                                  | 232.69 | 719.57    |               |
| 203+01.10      | 203+50.91 | RT     |                    |                                | CADD       | 532.56           |           |               | 37.18            |           |               |                                            |                                              |                                                       |                                  |        |           | 495.38        |
| 203+50.91      | 203+79.46 | RT     |                    |                                | CADD       | 101.33           |           | 101.33        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 203+79.46      | 203+91.30 | RT     |                    |                                | CADD       | 101.33           |           | 476.73        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 203+91.30      | 204+44.27 | RT     | 52.97              | 9.00                           | 476.73     |                  |           | 476.73        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 204+44.27      | 204+15.03 | RT     |                    |                                | CADD       | 32.24            |           | 32.24         |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 204+15.03      | 204+44.27 | RT     |                    |                                | CADD       | 169.87           |           |               |                  | 169.87    |               |                                            |                                              |                                                       |                                  |        |           |               |
| 204+44.27      | 204+80.09 | RT     |                    |                                | CADD       | 169.87           |           |               |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 204+80.09      | 205+53.87 | RT     | 73.78              | 9.00                           | 664.02     |                  |           | 664.02        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 205+53.87      | 205+95.38 | RT     |                    |                                | CADD       | 198.91           |           |               |                  | 198.91    |               |                                            |                                              |                                                       |                                  |        |           |               |
| 205+95.38      | 206+33.97 | RT     | 38.59              | 11.57                          | 446.49     |                  |           | 446.49        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 206+33.97      | 206+55.18 | RT     | 21.21              | 11.96                          | 253.67     |                  |           | 253.67        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 206+55.18      | 207+47.00 | RT     |                    |                                | CADD       | 1270.24          |           | 1270.24       |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 147+75.00      | 147+87.44 | LT     | 12.44              | 16.87                          | 209.86     |                  |           | 209.86        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 147+87.44      | 148+19.39 | LT     | 31.95              | 16.03                          | 512.16     |                  |           | 512.16        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 148+19.39      | 148+31.07 | LT     | 11.68              | 15.00                          | 175.20     |                  |           | 175.20        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 148+31.07      | 148+19.39 | LT     |                    |                                | CADD       | 53.91            |           |               | 53.91            |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 151+16.33      | 151+39.35 | LT     |                    |                                | CADD       | 527.07           |           |               | 39.85            |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 151+39.35      | 151+80.02 | LT     | 40.67              | 13.50                          | 549.05     |                  |           | 549.05        |                  |           |               |                                            |                                              | 2                                                     |                                  |        |           | 487.22        |
| 151+80.02      | 152+42.78 | LT     |                    |                                | CADD       | 332.65           |           |               | 332.65           |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 152+42.78      | 152+50.00 | LT     | 7.22               | 14.46                          | 104.40     |                  |           | 104.40        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 152+50.00      | 152+57.34 | LT     | 7.34               | 14.43                          | 105.92     |                  |           | 105.92        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 147+75.00      | 147+90.99 | RT     |                    |                                | CADD       | 167.37           |           | 167.37        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 147+90.99      | 148+10.77 | RT     | 19.78              | 17.50                          | 346.15     |                  |           | 346.15        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |
| 148+10.77      | 148+20.71 | RT     |                    |                                | CADD       | 139.46           |           | 139.46        |                  |           |               |                                            |                                              |                                                       |                                  |        |           |               |

**WALK CALCULATIONS**  
**FRA - 70 / 71 - 12.68 / 14.86**

CALCULATED  
 CJC  
 CHECKED  
 CWL

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

**TOTALS CARRIED TO ROADWAY SUBSUMMARY ON SHEET 220**

3441    54    7516    541    30    369    6    1    1    233    1703

259  
 1815

01/20/21 2:28:48 PM FRA\105523\ROADWAY\SHEETS\105523C006.DGN  
 11/22/2021 11:21:55 AM  
 COWI\B15D\USER

| STATION                                                  |                     | SIDE    | LENGTH     | AVERAGE WIDTH<br>W | SURFACE AREA<br>A<br>A = L x W | CADD AREAS | 608              |                  | 608                                 |                                            | 608                                 |    | 608 |     | 608 |  |
|----------------------------------------------------------|---------------------|---------|------------|--------------------|--------------------------------|------------|------------------|------------------|-------------------------------------|--------------------------------------------|-------------------------------------|----|-----|-----|-----|--|
| FROM                                                     | TO                  |         |            |                    |                                |            | 4" CONCRETE WALK | 8" CONCRETE WALK | CONCRETE STEPS, TYPE B, AS PER PLAN | WALKWAY, MISC.: COLUMBUS CURB RAMP, TYPE A | WALKWAY, MISC.: BRICK PAVEMENT WALK |    |     |     |     |  |
|                                                          |                     |         |            |                    |                                | SF         | SF               | FT               | EACH                                | SF                                         |                                     |    |     |     |     |  |
| FRONT ST                                                 |                     |         |            |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+02.93                                                | 151+39.35           | RT      |            |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+39.35                                                | 151+48.14           | RT      | 8.79       | 10.71              | 94.14                          | 94.14      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+39.35                                                | 151+48.14           | RT      |            |                    |                                |            | 37.47            |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+48.14                                                | 151+56.15           | RT      | 8.01       | 10.64              | 85.23                          | 85.23      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+56.15                                                | 151+61.40           | RT      | 5.25       | 9.23               | 48.46                          | 48.46      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+61.40                                                | 151+86.60           | RT      | 25.20      | 10.71              | 269.89                         | 269.89     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+86.60                                                | 151+91.67           | RT      | 5.07       | 6.51               | 33.01                          | 33.01      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+91.67                                                | 152+09.97           | RT      | 18.30      | 7.98               | 146.03                         | 146.03     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 152+09.97                                                | 152+18.09           | RT      | 8.12       | 12.06              | 97.93                          | 97.93      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| FULTON ST                                                |                     |         |            |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 19+45.63                                                 | 19+50.88            | LT      | 5.25       | 9.05               | 47.51                          | 47.51      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 19+50.88                                                 | 19+61.79            | LT      | 10.91      | 10.65              | 116.19                         | 116.19     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 19+45.63                                                 | 19+61.79            | LT      |            |                    |                                |            | 97.24            |                  |                                     |                                            |                                     |    |     |     |     |  |
| 19+61.79                                                 | 19+75.72            | LT      | 13.93      | 10.89              | 151.70                         | 151.70     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 19+75.72                                                 | 19+80.97            | LT      | 5.25       | 9.64               | 50.61                          | 50.61      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 19+80.97                                                 | 20+02.23            | LT      | 21.26      | 11.32              | 240.66                         | 240.66     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 20+02.23                                                 | 20+79.35            | LT      |            |                    |                                |            |                  | 472.73           |                                     |                                            |                                     |    |     |     |     |  |
| 20+79.35                                                 | 20+96.22            | LT      | 16.87      | 13.45              | 226.90                         | 226.90     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 20+96.22                                                 | 21+00.32            | LT      | 4.10       | 12.26              | 50.27                          | 50.27      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 21+00.32                                                 | 21+24.16            | LT      | 23.84      | 14.07              | 335.43                         | 335.43     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 21+24.16                                                 | 21+51.09            | LT      |            |                    |                                |            |                  | 194.18           |                                     |                                            |                                     |    |     |     |     |  |
| 21+51.09                                                 | 22+00.00            | LT      | 48.91      | 15.83              | 774.25                         | 774.25     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 22+00.00                                                 | 22+40.00            | LT      | 40.00      | 17.10              | 684.00                         | 684.00     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 22+40.00                                                 | 23+00.00            | LT      | 60.00      | 18.47              | 1108.20                        | 1108.20    |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 23+00.00                                                 | 23+15.00            | LT      | 15.00      | 19.81              | 297.15                         | 297.15     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 19+83.00                                                 | 20+40.93            | RT      | 57.93      | 12.50              | 724.13                         | 724.13     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 20+40.93                                                 | 20+44.79            | RT      | 3.86       | 14.43              | 55.70                          | 55.70      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 20+44.79                                                 | 20+48.93            | RT      | 4.14       | 16.36              | 67.73                          | 67.73      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 20+48.93                                                 | 20+52.76            | RT      | 3.83       | 14.43              | 55.27                          | 55.27      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 20+52.76                                                 | 22+79.08            | RT      | 226.32     | 12.50              | 2829.00                        | 2829.00    |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 22+79.08                                                 | 22+84.08            | RT      | 5.00       | 8.68               | 43.40                          | 43.40      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 22+84.08                                                 | 23+00.00            | RT      | 15.92      | 4.86               | 77.37                          | 77.37      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 23+00.00                                                 | 23+15.00            | RT      | 15.00      | 7.91               | 118.65                         | 118.65     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| SOUDER AVE                                               |                     |         |            |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 5+63.70                                                  | 5+71.08             | LT      | 7.38       | 7.17               | 52.91                          | 52.91      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 5+71.08                                                  | 5+95.13             | LT      | 24.05      | 6.41               | 154.16                         | 154.16     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 5+95.13                                                  | 6+13.55             | LT      | 18.42      | 6.33               | 116.60                         | 116.60     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 5+61.73                                                  | 5+68.73             | RT      | 7.00       | 7.60               | 53.20                          | 53.20      |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 5+68.73                                                  | 6+12.28             | RT      | 43.55      | 6.32               | 275.24                         | 275.24     |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| FRA-70-13.95                                             |                     |         |            |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| CONCRETE STEPS                                           |                     |         |            |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 151+43.54                                                | 2 TREAD             | RT      |            | 6.89               |                                |            |                  | 13.78            |                                     |                                            |                                     |    |     |     |     |  |
| FRA-70-71-12.68 / 14.86                                  |                     |         |            |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| NO.                                                      | DESCRIPTION         | REV. BY | DATE       |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| 4                                                        | FUNDING CODE CHANGE | CWL     | 11-29-2021 |                    |                                |            |                  |                  |                                     |                                            |                                     |    |     |     |     |  |
| <b>TOTALS CARRIED TO ROADWAY SUBSUMMARY ON SHEET 220</b> |                     |         |            |                    |                                |            | 9481             | 135              | 667                                 | 39                                         | 14                                  | 10 | 358 | 480 |     |  |

|                                     |                   |                               |             |
|-------------------------------------|-------------------|-------------------------------|-------------|
| CALCULATED<br>CJC<br>CHECKED<br>CWL | WALK CALCULATIONS | FRA - 70 / 71 - 12.68 / 14.86 | 260<br>1815 |
|-------------------------------------|-------------------|-------------------------------|-------------|



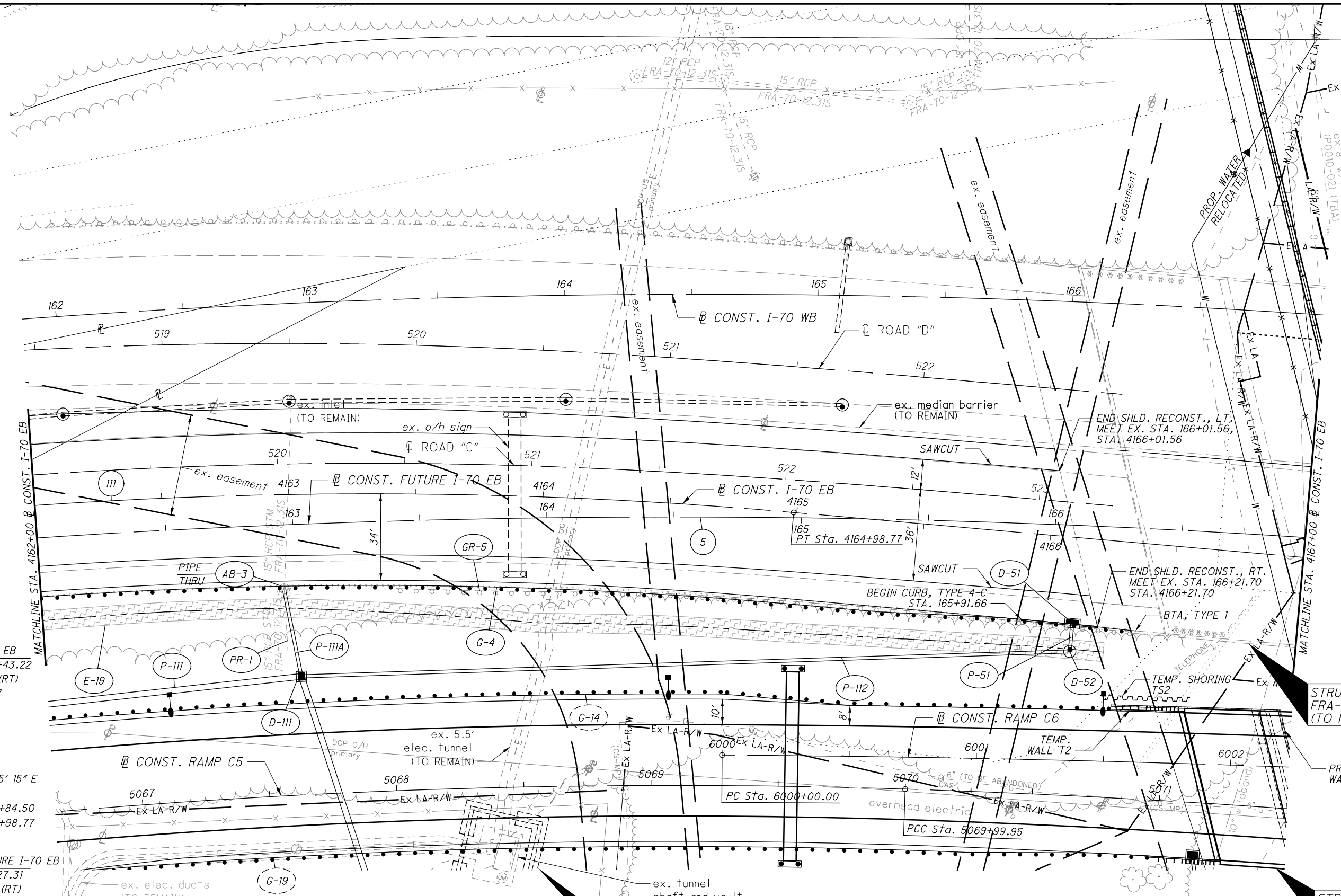
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 CHECKED  
 CWL

**PLAN - I-70 EASTBOUND**  
**STA. 4162+00.00 TO STA. 4167+00.00**

**FRA-70/71-12.68/14.86**

283  
 1815



III **CONST. I-70 EB**  
 P.I. Sta. 4162+43.22  
 $\Delta = 15^\circ 31' 32''$  (RT)  
 $D_c = 3^\circ 01' 08''$   
 $R = 1,897.86'$   
 $T = 258.72'$   
 $L = 514.26'$   
 $E = 17.55'$   
 $C = 512.69'$   
 $C.B. = N 74^\circ 45' 15'' E$   
 $\theta_{max} = exist.$   
 P.C. Sta. 4159+84.50  
 P.T. Sta. 4164+98.77  
 D.S. = 60 MPH

5 **CONST. FUTURE I-70 EB**  
 P.I. Sta. 167+27.31  
 $\Delta = 31^\circ 42' 37''$  (RT)  
 $D_c = 1^\circ 30' 00''$   
 $R = 3,819.72'$   
 $T = 1,084.84'$   
 $L = 2,114.01'$   
 $E = 151.07'$   
 $C = 2,087.14'$   
 $C.B. = N 81^\circ 13' 18'' E$   
 $\theta_{max} = 0.037$  (FUTURE)  
 P.C.C. Sta. 156+42.47  
 P.T. Sta. 177+56.48  
 D.S. = 60 MPH

FOR STRUCTURE PLANS, SEE SHEETS 1472-1507  
 FOR I-70 EB PROFILE, SEE SHEET 284  
 FOR RAMP C5 PLANS, SEE SHEETS 331-361  
 FOR RAMP C6 PLANS, SEE SHEETS 362-367  
 FOR RETAINING WALL DETAILS, SEE SHEETS 831-834  
 FOR PIPE PROFILES, SEE SHEETS 284, 397  
 FOR SIGNING PLANS, SEE SHEETS 1014-1049  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 677-680  
 FOR LIGHTING PLANS, SEE SHEETS 1163-1205A  
 FOR ITS PLANS, SEE SHEETS 1122-1162  
 FOR TEMP. WALL AND SHORING DETAILS, SEE SHEETS 889-902  
 FOR WATER WORK DETAILS, SEE SHEETS 905-920  
 FOR UTILITY LEGEND, SEE SHEET 3  
 FOR ESTIMATED QUANTITIES, SEE SHEETS 230-255

STRUCTURE NO.  
 FRA-70-1357A

ITEM 670 - DITCH EROSION PROTECTION

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

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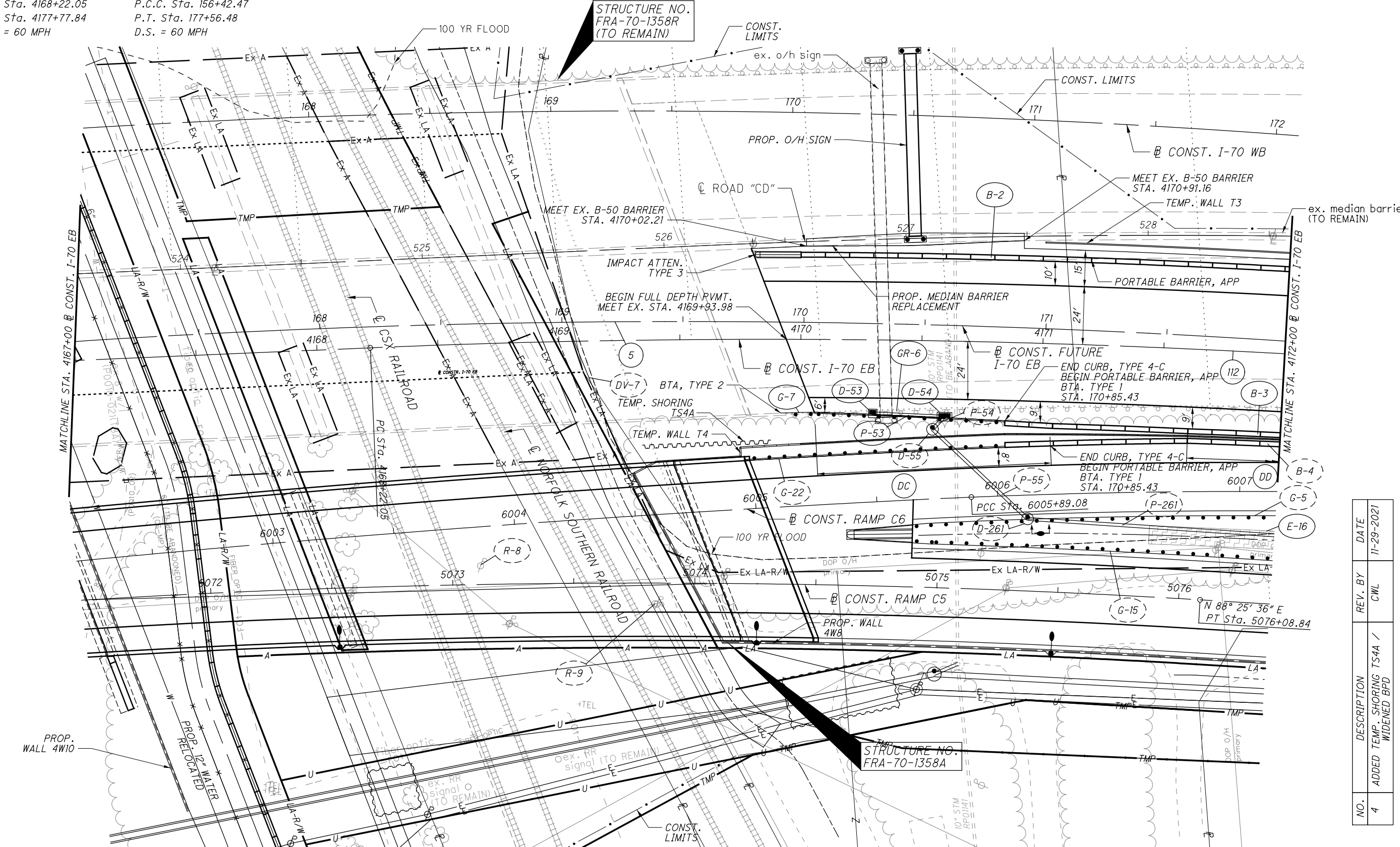
112 **CONST. I-70 EB**  
 P.I. Sta. 4173+02.46  
 $\Delta = 14^\circ 20' 13''$  (RT)  
 $D_c = 1^\circ 30' 00''$   
 $R = 3,819.72'$   
 $T = 480.41'$   
 $L = 955.79'$   
 $E = 30.09'$   
 $C = 953.30'$   
 $C.B. = N 89^\circ 41' 07'' E$   
 $e_{max} = 0.037$   
 P.C. Sta. 4168+22.05  
 P.T. Sta. 4177+77.84  
 D.S. = 60 MPH

5 **CONST. FUTURE I-70 EB**  
 P.I. Sta. 167+27.31  
 $\Delta = 31^\circ 42' 37''$  (RT)  
 $D_c = 1^\circ 30' 00''$   
 $R = 3,819.72'$   
 $T = 1,084.84'$   
 $L = 2,114.01'$   
 $E = 151.07'$   
 $C = 2,087.14'$   
 $C.B. = N 81^\circ 13' 18'' E$   
 $e_{max} = 0.037$  (FUTURE)  
 P.C.C. Sta. 156+42.47  
 P.T. Sta. 177+56.48  
 D.S. = 60 MPH

FOR TEMP. WALL AND SHORING DETAILS, SEE SHEETS 889 - 902  
 FOR WATER WORK DETAILS, SEE SHEETS 905-920  
 FOR I-70 EB PROFILE, SEE SHEET 286  
 FOR RAMP C5 PLANS, SEE SHEETS 331-361  
 FOR RAMP C6 PLANS, SEE SHEETS 362-367  
 FOR GORE DETAILS, SEE SHEETS 560-571  
 FOR STRUCTURE PLANS, SEE SHEETS 1472-1507  
 FOR RETAINING WALL DETAILS, SEE SHEETS 804-823, 831-834  
 FOR SIGNING PLANS, SEE SHEETS 1014-1049  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 677-680  
 FOR LIGHTING PLANS, SEE SHEETS 1163-1205A  
 FOR ITS PLANS, SEE SHEETS 1122-1162  
 FOR UTILITY LEGEND, SEE SHEET 3  
 FOR ESTIMATED QUANTITIES, SEE SHEETS 230-255

| TAPER TABLE |                   |                |         |             |             |           |            |       |
|-------------|-------------------|----------------|---------|-------------|-------------|-----------|------------|-------|
| TAPER CODE  | BEGINNING STATION | ENDING STATION | SIDE    | DESCRIPTION | BEGIN WIDTH | END WIDTH | TAPER RATE |       |
| DC          | 4170+05.70        | I-70 EB        | I-70 EB | RT          | SHOULDER    | 6.03'     | 9.00'      | 34:1  |
| DD          | 4171+61.37        | I-70 EB        | I-70 EB | RT          | PB OFFSET   | 33.00'    | 32.00'     | 102:1 |

ITEM 670 - DITCH EROSION PROTECTION



**PLAN - I-70 EASTBOUND**  
**STA. 4167+00.00 TO STA. 4172+00.00**

**FRA-70/71-12.68/14.86**

285  
 1815

| NO. | DESCRIPTION                            | REV. BY | DATE       |
|-----|----------------------------------------|---------|------------|
| 4   | ADDED TEMP. SHORING TS44 / WIDENED BPD | CWL     | 11-29-2021 |

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FOR PIPE PROFILES, SEE SHEETS 353, 484, 665, 666  
 FOR RAMP C5 PROFILE, SEE SHEET 353  
 FOR RAMP C6 PLANS, SEE SHEETS 362-367  
 FOR I-70 EB PLANS, SEE SHEETS 265-303  
 FOR GORE DETAILS, SEE SHEETS 560-571  
 FOR STRUCTURE PLANS, SEE SHEETS 1472-1507  
 FOR RETAINING WALL DETAILS, SEE SHEETS 804 - 823, 831 - 834  
 FOR WATER WORK DETAILS, SEE SHEETS 905 - 920  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 677-680  
 FOR ITS PLANS, SEE SHEETS 1122 - 1162  
 FOR LIGHTING PLANS, SEE SHEETS 1163 - 1205A  
 FOR SIGNING PLANS, SEE SHEETS 1014 - 1049  
 FOR UTILITY LEGEND, SEE SHEET 3  
 FOR ESTIMATED QUANTITIES, SEE SHEETS 230-255  
 FOR TEMP. WALL AND SHORING DETAILS, SEE SHEETS 889A-902  
 FOR DRIVE DETAILS, SEE SHEETS 583 - 590  
 FOR BIKE PATH DETOUR PLANS, SEE SHEETS 636 - 643R



**PLAN - RAMP C5**  
**STA. 5070+00.00 TO STA. 5075+00.00**

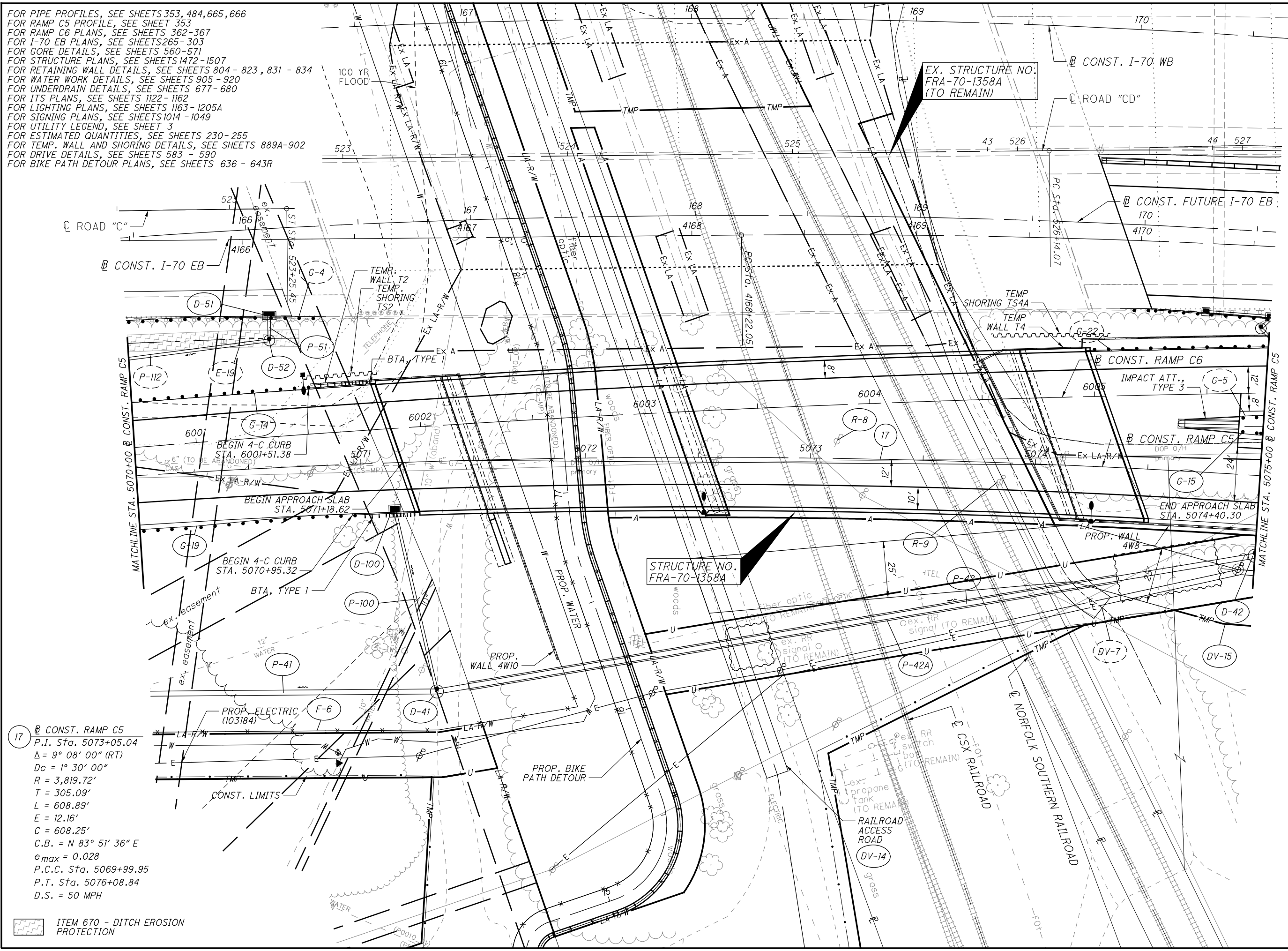
**FRA-70/71-12.68/14.86**

352  
1815

17 CONST. RAMP C5  
 P.I. Sta. 5073+05.04  
 $\Delta = 9^\circ 08' 00''$  (RT)  
 $D_c = 1^\circ 30' 00''$   
 $R = 3,819.72'$   
 $T = 305.09'$   
 $L = 608.89'$   
 $E = 12.16'$   
 $C = 608.25'$   
 $C.B. = N 83^\circ 51' 36'' E$   
 $e_{max} = 0.028$   
 P.C.C. Sta. 5069+99.95  
 P.T. Sta. 5076+08.84  
 D.S. = 50 MPH

ITEM 670 - DITCH EROSION PROTECTION

| NO. | DESCRIPTION                            | REV. BY | DATE       |
|-----|----------------------------------------|---------|------------|
| 4   | ADDED TEMP. SHORING TS4A / WIDENED BPD | CWL     | 11-29-2021 |



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| NO. | DESCRIPTION              | REV. BY | DATE       |
|-----|--------------------------|---------|------------|
| 4   | ADDED TEMP. SHORING TS4A | CWL     | 11-29-2021 |

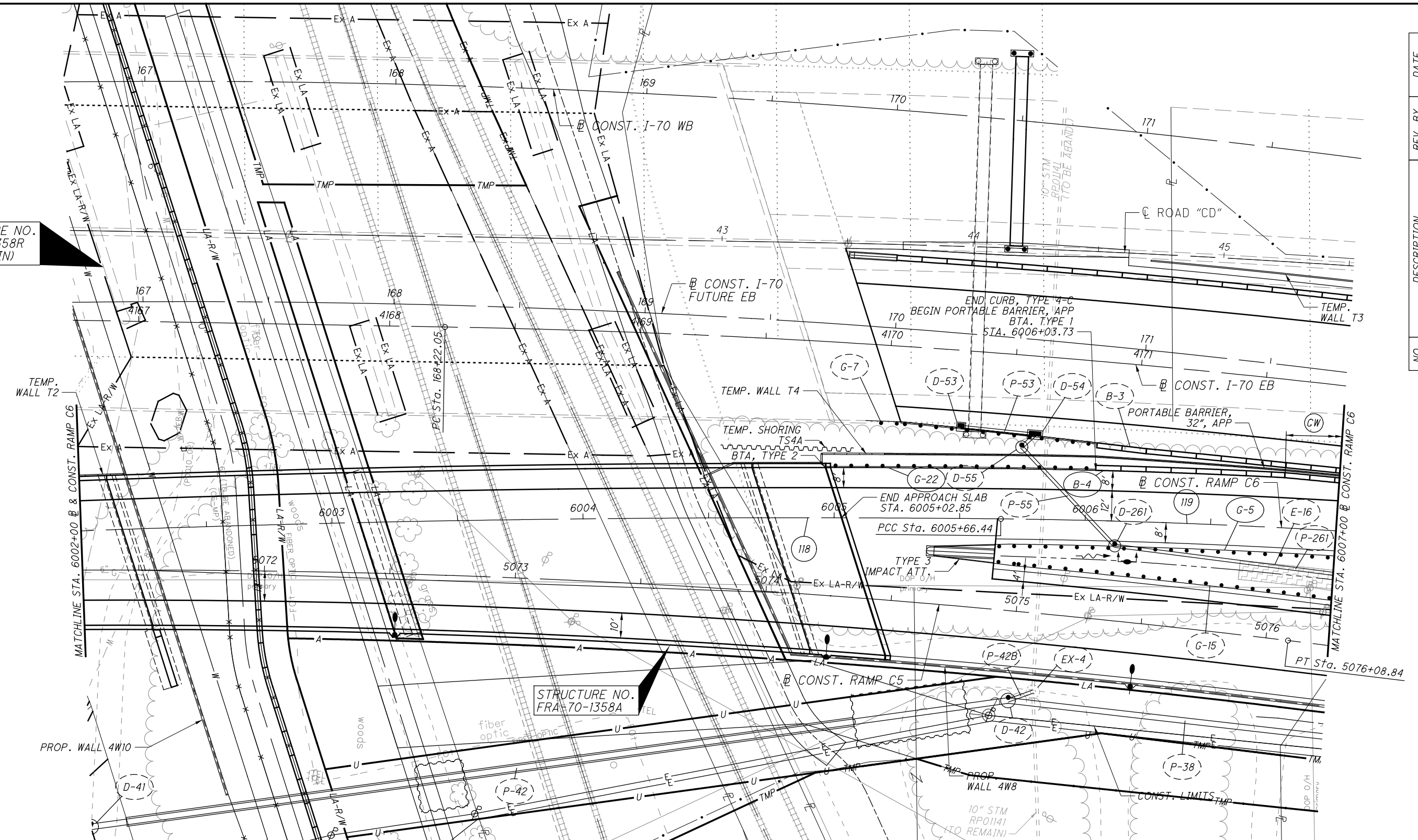
**PLAN - RAMP C6**  
**STA. 6002+00.00 TO STA. 6007+00.00**

**FRA-70/71-12.68/14.86**

364  
1815

STRUCTURE NO. FRA-70-1358R (TO REMAIN)

STRUCTURE NO. FRA-70-1358A



118 **CONST. RAMP C6**  
 P.I. Sta. 6002+83.35  
 $\Delta = 4^\circ 14' 54''$  (RT)  
 $D_c = 0^\circ 45' 00''$   
 $R = 7,639.44'$   
 $T = 283.35'$   
 $L = 566.44'$   
 $E = 5.25'$   
 $C = 566.31'$   
 $C.B. = N 79^\circ 58' 34'' E$   
 $e_{max} = 0.028$   
 P.C. Sta. 6000+00.00  
 P.T. Sta. 6005+66.44  
 D.S. = 50 MPH

119 **CONST. RAMP C6**  
 P.I. Sta. 6007+89.84  
 $\Delta = 9^\circ 26' 10''$  (RT)  
 $D_c = 2^\circ 07' 00''$   
 $R = 2706.89'$   
 $T = 223.41'$   
 $L = 445.80'$   
 $E = 9.20'$   
 $C = 445.30'$   
 $C.B. = N 86^\circ 49' 06'' E$   
 $e_{max} = 0.037$   
 P.C. Sta. 6005+66.44  
 P.C.C. Sta. 6010+12.24  
 D.S. = 50 MPH

| TAPER CODE | BEGINNING STATION | ENDING STATION | SIDE       | DESCRIPTION | BEGIN WIDTH | END WIDTH    | TAPER RATE             |
|------------|-------------------|----------------|------------|-------------|-------------|--------------|------------------------|
| CW         | 6006+78.47        | RAMP C6        | 6007+78.47 | RAMP C6     | LT          | PORT BARRIER | 8.00'<br>4.00'<br>25:1 |

ITEM 670 - DITCH EROSION PROTECTION

FOR RAMP C6 PROFILE, SEE SHEET 365  
 FOR RAMP C5 PLANS, SEE SHEETS 331-361  
 FOR I-70 EB PLANS, SEE SHEETS 265-303  
 FOR STRUCTURE PLANS, SEE SHEETS 1472-1507  
 FOR GORE DETAILS, SEE SHEETS 560-571  
 FOR RETAINING WALL DETAILS, SEE SHEETS 804-823, 831-834, 898, 899  
 FOR PIPE PROFILES, SEE SHEETS 365, 397  
 FOR UNDERDRAIN DETAILS, SEE SHEETS 677-680  
 FOR LIGHTING PLANS, SEE SHEETS 1163-1205  
 FOR ITS PLANS, SEE SHEETS 1122-1162  
 FOR UTILITY LEGEND, SEE SHEET 3  
 FOR SIGNING PLANS, SEE SHEETS 1014-1049  
 FOR ESTIMATED QUANTITIES, SEE SHEETS 230-255

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| SEEDING   |          | NO. | DESCRIPTION       | REV. BY | DATE       |
|-----------|----------|-----|-------------------|---------|------------|
| END WIDTH | SO. YDS. |     |                   |         |            |
| 19        |          | 4   | EARTHWORK REVISED | ATR     | 11-29-2021 |

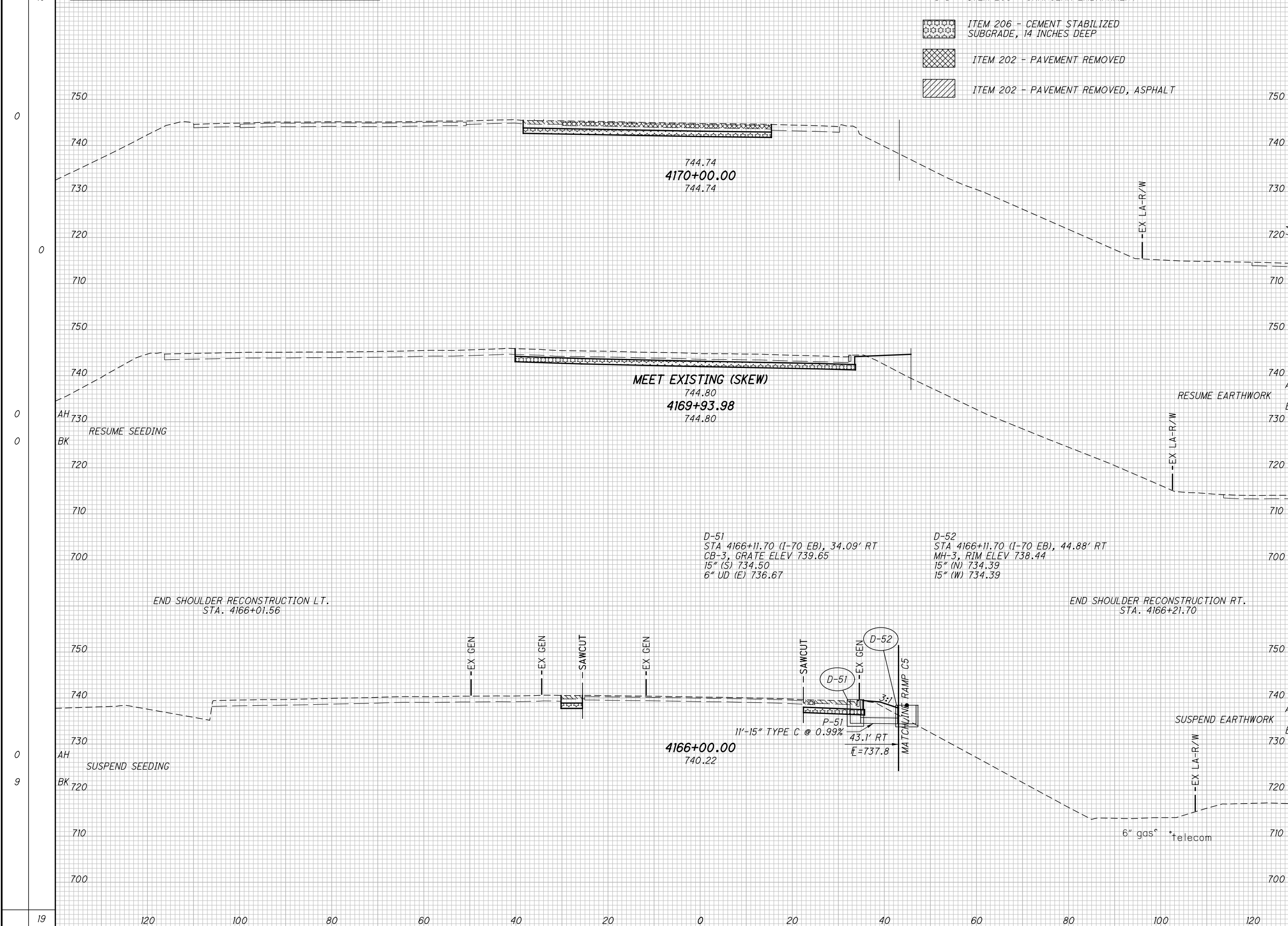
- [#] ITEM 203 - GRANULAR EMBANKMENT
- ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP
- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - PAVEMENT REMOVED, ASPHALT

| END AREA | VOLUME | CALCULATED | CHECKED | CWL |
|----------|--------|------------|---------|-----|
|          |        |            |         |     |
| 91       | 0      |            |         |     |
| 24       | [37]   |            |         |     |
| 124      | [24]   |            |         |     |
| 0        | 0      |            |         |     |
| 30       | 5      |            |         |     |
| 199      | [874]  |            |         |     |

**CROSS SECTIONS I-70 EASTBOUND**  
**STA. 4166+00.00 TO STA. 4170+00.00**

**FRA -70/ 71-12.68 / 14.86**

396  
 1815



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| SEEDING   |          | NO. | DESCRIPTION       | REV. BY | DATE       |
|-----------|----------|-----|-------------------|---------|------------|
| END WIDTH | SO. YDS. |     |                   |         |            |
| 72        |          | 4   | EARTHWORK REVISED | ATR     | 11-29-2021 |

[#] ITEM 203 - GRANULAR EMBANKMENT

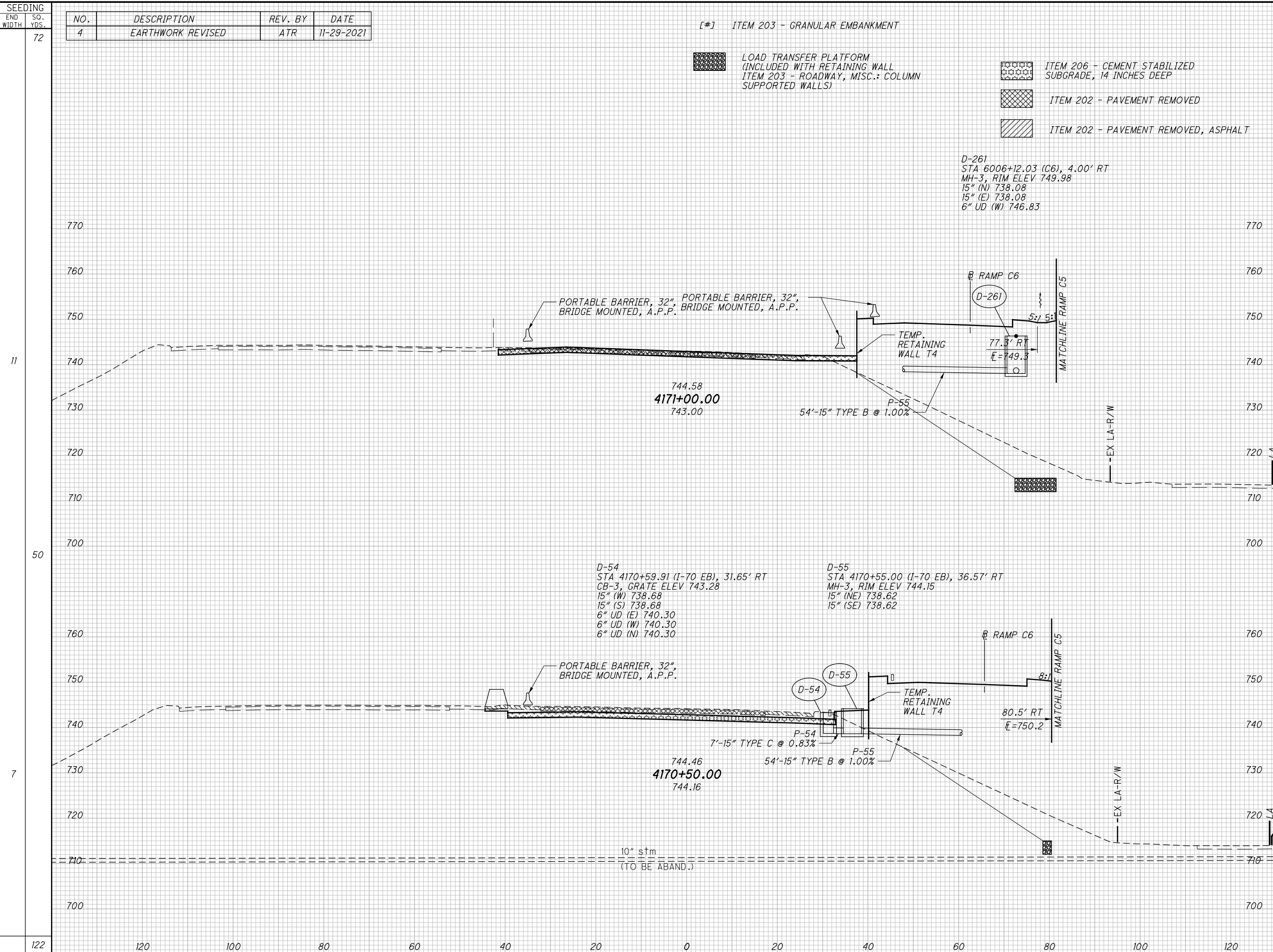
LOAD TRANSFER PLATFORM  
(INCLUDED WITH RETAINING WALL  
ITEM 203 - ROADWAY, MISC.: COLUMN  
SUPPORTED WALLS)

ITEM 206 - CEMENT STABILIZED  
SUBGRADE, 14 INCHES DEEP

ITEM 202 - PAVEMENT REMOVED

ITEM 202 - PAVEMENT REMOVED, ASPHALT

D-261  
STA 6006+12.03 (C6), 4.00' RT  
MH-3, RIM ELEV 749.98  
15" (N) 738.08  
15" (E) 738.08  
6" UD (W) 746.83



| END AREA   | VOLUME     | CALCULATED | CHECKED |
|------------|------------|------------|---------|
|            |            |            |         |
| 196 [1117] | 309 [2278] |            |         |
| 380 [1906] |            |            |         |
| 214 [941]  |            |            |         |
| 689 [4184] |            |            |         |

CROSS SECTIONS I-70 EASTBOUND  
STA. 4170+50.00 TO STA. 4171+00.00

FRA -70/ 71-12.68 / 14.86

397  
1815

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| SEEDING   |          | NO. | DESCRIPTION       | REV. BY | DATE       |
|-----------|----------|-----|-------------------|---------|------------|
| END WIDTH | SO. YDS. |     |                   |         |            |
|           | 106      | 4   | EARTHWORK REVISED | ATR     | 11-29-2021 |

| END AREA |      | VOLUME |        | CALCULATED ATR | CHECKED CWL |
|----------|------|--------|--------|----------------|-------------|
| CUT      | FILL | CUT    | FILL   |                |             |
|          |      | 213    | [3090] |                |             |

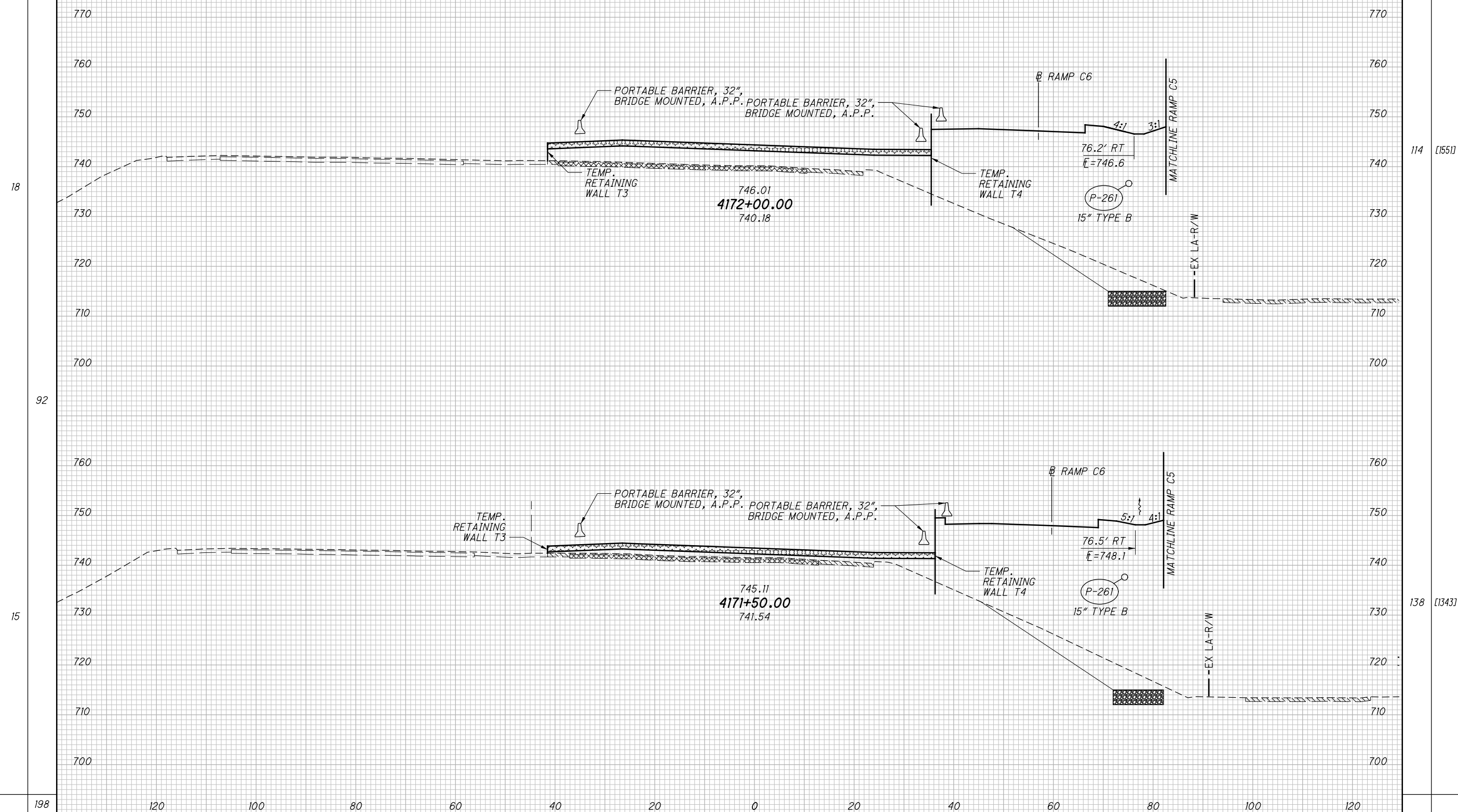
[#] ITEM 203 - GRANULAR EMBANKMENT

LOAD TRANSFER PLATFORM (INCLUDED WITH RETAINING WALL ITEM 203 - ROADWAY, MISC.: COLUMN SUPPORTED WALLS)

ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP

ITEM 202 - PAVEMENT REMOVED

ITEM 202 - PAVEMENT REMOVED, ASPHALT



| END AREA |        | VOLUME |        | CALCULATED ATR | CHECKED CWL |
|----------|--------|--------|--------|----------------|-------------|
| CUT      | FILL   | CUT    | FILL   |                |             |
| 114      | [1551] | 233    | [2680] |                |             |
| 138      | [1343] | 446    | [5770] |                |             |

CROSS SECTIONS I-70 EASTBOUND  
STA. 4171+50.00 TO STA. 4172+00.00

FRA -70/ 71-12.68 / 14.86

398  
1815

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| SEEDING   |          | NO. | DESCRIPTION       | REV. BY | DATE       |
|-----------|----------|-----|-------------------|---------|------------|
| END WIDTH | SO. YDS. |     |                   |         |            |
| 122       |          | 4   | EARTHWORK REVISED | ATR     | 11-29-2021 |

[#] ITEM 203 - GRANULAR EMBANKMENT

LOAD TRANSFER PLATFORM  
(INCLUDED WITH RETAINING WALL  
ITEM 203 - ROADWAY, MISC.: COLUMN  
SUPPORTED WALLS)

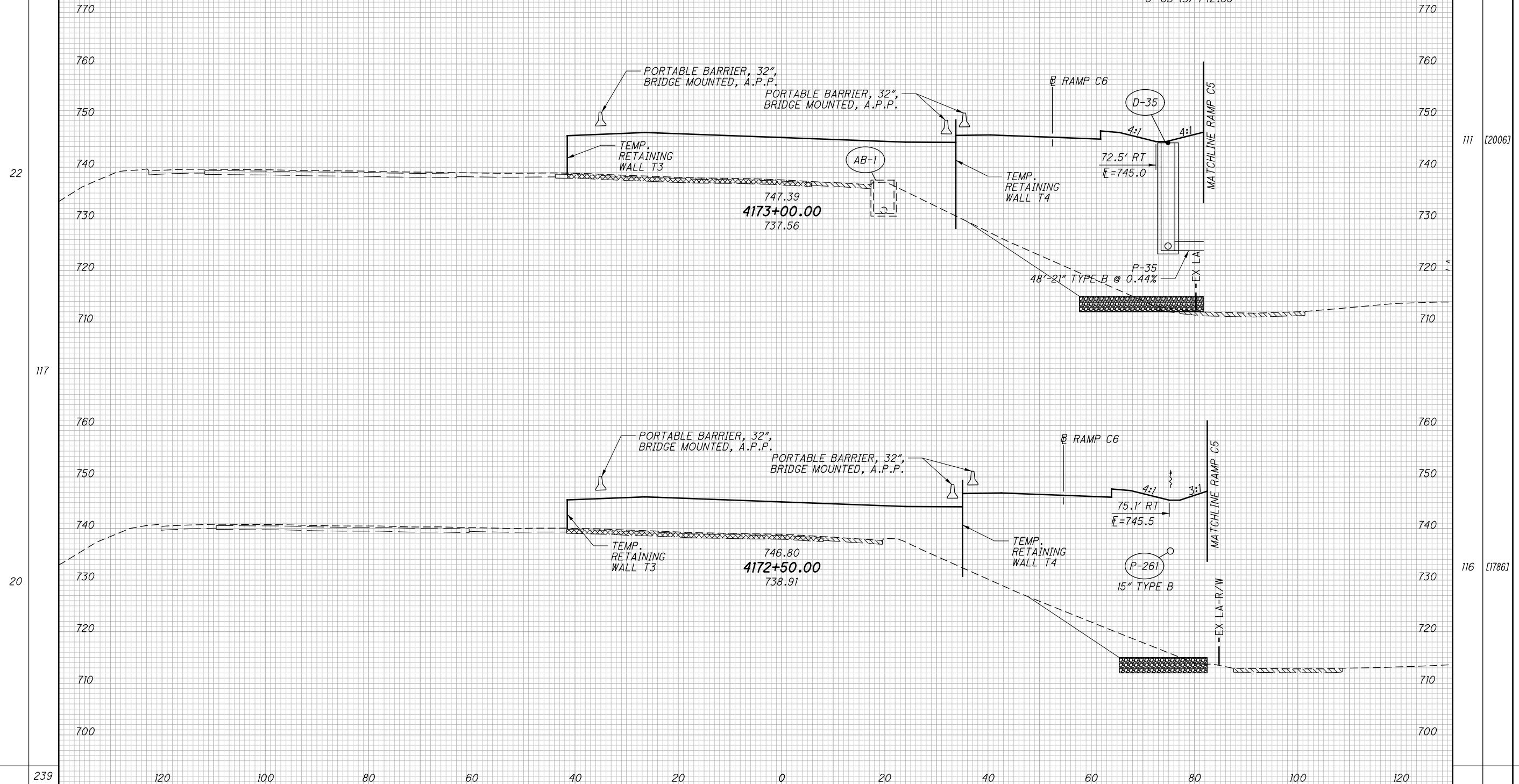
ITEM 202 - PAVEMENT REMOVED

ITEM 202 - PAVEMENT REMOVED, ASPHALT

| END AREA |      | VOLUME |        | CALCULATED | CHECKED |
|----------|------|--------|--------|------------|---------|
| CUT      | FILL | CUT    | FILL   |            |         |
|          |      | 231    | [3921] | ATR        | CWL     |

AB-1  
STA 4172+81.75 (I-70 EB), 19.80' RT  
INLET ABAND. AND PIPE THRU, A.P.P.  
GRATE ELEV 737.51'  
12" RCP N 732.89  
15" RCP E 731.03

D-35  
STA 4173+00.03 (I-70 EB), 74.86' RT  
CB-8, GRATE ELEV 744.72'  
15" (W) 734.02  
15" (E) 724.10  
18" (S) 723.85  
6" UD (S) 742.85



|     |        |     |        |  |  |
|-----|--------|-----|--------|--|--|
| 111 | [2006] | 210 | [3511] |  |  |
| 116 | [1786] |     |        |  |  |
| 441 | [7432] |     |        |  |  |

CROSS SECTIONS I-70 EASTBOUND  
STA. 4172+50.00 TO STA. 4173+00.00

FRA-70/71-12.68/14.86

399  
1815

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| SEEDING   |          | NO. | DESCRIPTION       | REV. BY | DATE       |
|-----------|----------|-----|-------------------|---------|------------|
| END WIDTH | SO. YDS. |     |                   |         |            |
| 108       |          | 4   | EARTHWORK REVISED | ATR     | 11-29-2021 |

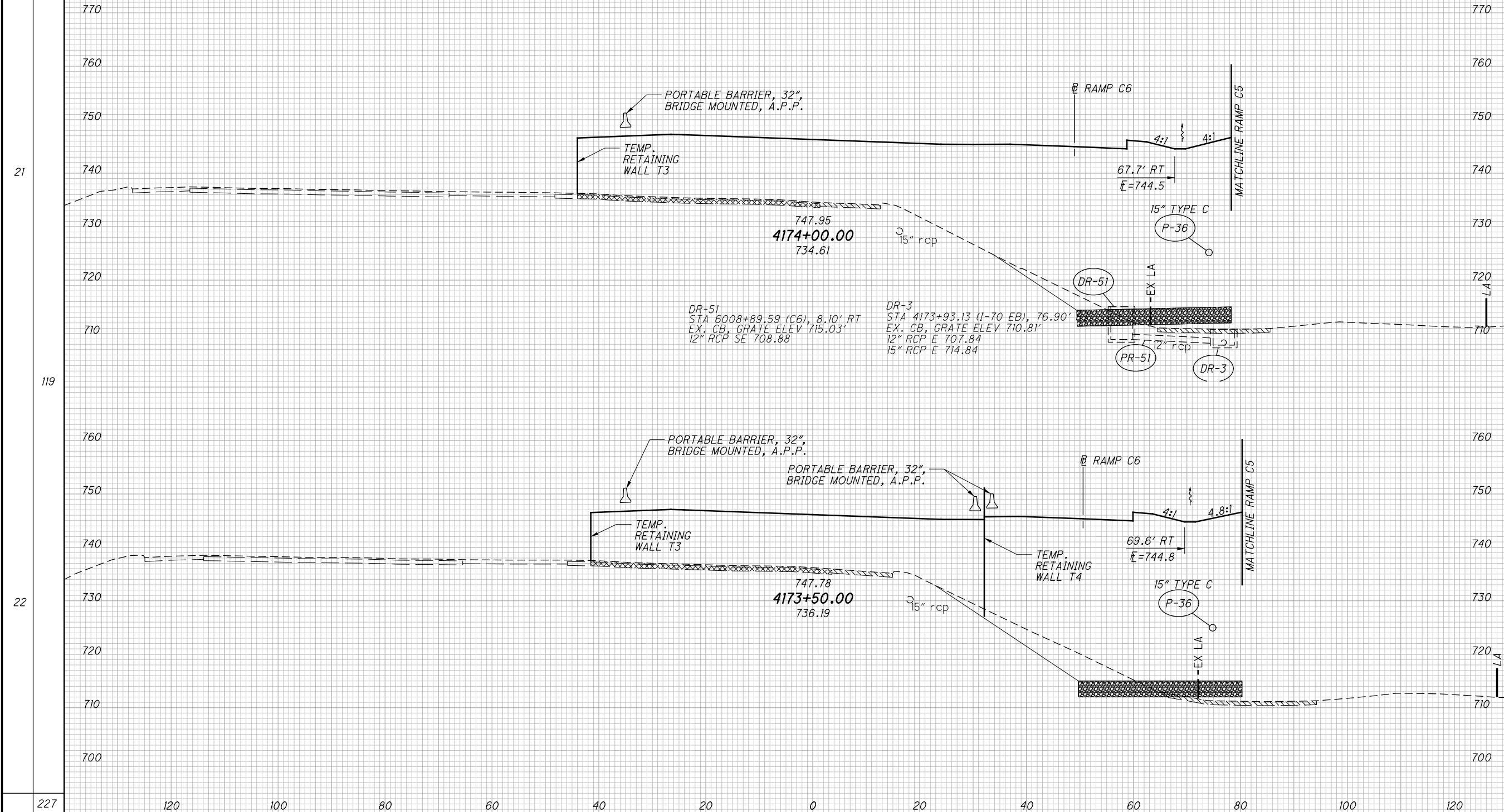
[#] ITEM 203 - GRANULAR EMBANKMENT

LOAD TRANSFER PLATFORM  
(INCLUDED WITH RETAINING WALL  
ITEM 203 - ROADWAY, MISC.: COLUMN  
SUPPORTED WALLS)

ITEM 202 - PAVEMENT REMOVED

ITEM 202 - PAVEMENT REMOVED, ASPHALT

| END AREA |      | VOLUME |        | CALCULATED ATR | CHECKED CWL |
|----------|------|--------|--------|----------------|-------------|
| CUT      | FILL | CUT    | FILL   |                |             |
|          |      | 110    | [4422] |                |             |



56 [2340]

180 [4231]

138 [2229]

290 [8653]

CROSS SECTIONS I-70 EASTBOUND  
STA. 4173+50.00 TO STA. 4174+00.00

FRA -70/ 71-12.68 / 14.86

400  
1815

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SEEDING  
END WIDTH SO. YDS.

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | ATR     | 11-29-2021 |

[#] ITEM 203 - GRANULAR EMBANKMENT

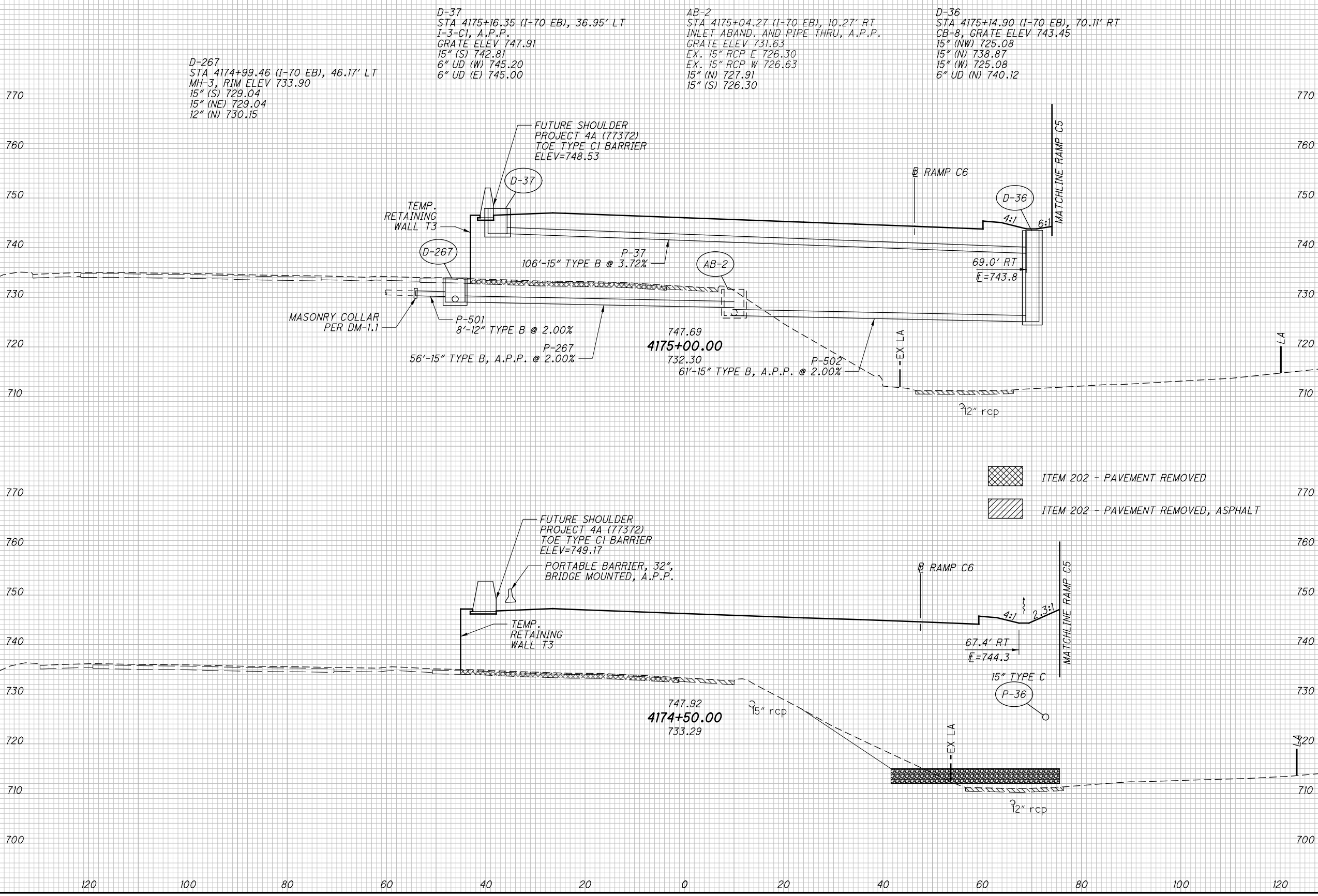
#" ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN

| END AREA | VOLUME |      | CALCULATED | CHECKED | CWL |
|----------|--------|------|------------|---------|-----|
|          | CUT    | FILL |            |         |     |
|          | 0      | 1991 |            |         |     |

LOAD TRANSFER PLATFORM  
(INCLUDED WITH RETAINING WALL  
ITEM 203 - ROADWAY, MISC.: COLUMN  
SUPPORTED WALLS)

SUSPEND ITEM 203 - GRANULAR EMBANKMENT  
START ITEM 203 - GRANULAR EMBANKMENT, A.P.P.  
STA. 4175+43.32

89  
15  
92  
18  
181



| END AREA | VOLUME |      | CALCULATED | CHECKED | CWL |
|----------|--------|------|------------|---------|-----|
|          | CUT    | FILL |            |         |     |
| 0        | 2590   |      |            |         |     |
| 0        | [2590] |      |            |         |     |
| 0        | [2590] |      |            |         |     |
| 0        | [2590] |      |            |         |     |
| 0        | [2590] |      |            |         |     |
| 58       | [4654] |      |            |         |     |
| 63       | [2436] |      |            |         |     |
| 58       | [8810] |      |            |         |     |

CROSS SECTIONS I-70 EASTBOUND  
STA. 4174+50.00 TO STA. 4175+00.00

FRA - 70/ 71-12.68 / 14.86



401  
1815

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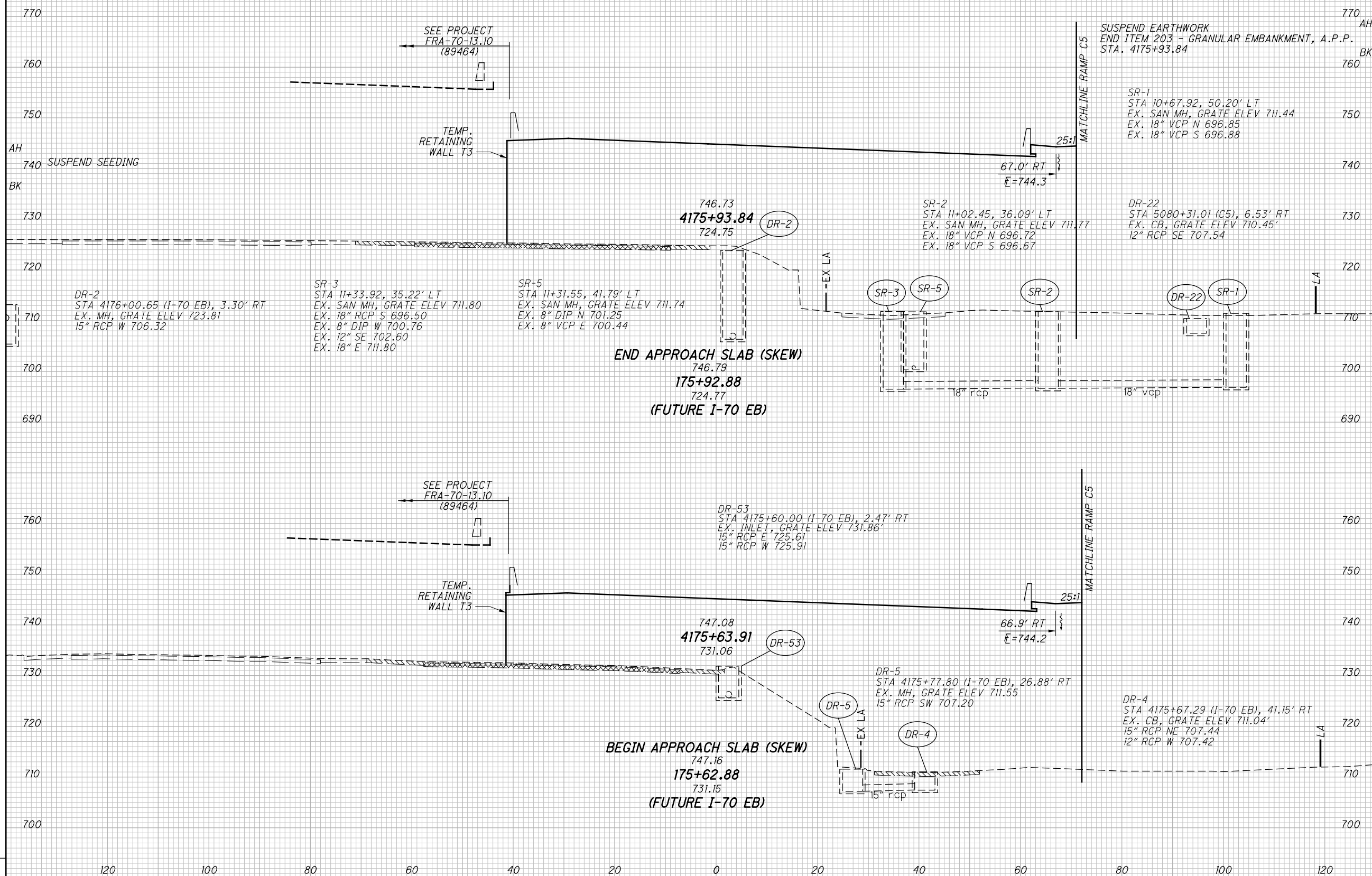
| SEEDING   |
|-----------|
| END WIDTH |
| SO. YDS.  |

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | ATR     | 11-29-2021 |

| END AREA |      | VOLUME |      | CALCULATED | ATR | CHECKED | CWL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT      | FILL | CUT    | FILL |            |     |         |     |

 ITEM 202 - PAVEMENT REMOVED  
 ITEM 202 - PAVEMENT REMOVED, ASPHALT  
 "##" ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN

120  
 0  
 9  
 32  
 10  
 32



|     |    |   |        |   |        |  |  |
|-----|----|---|--------|---|--------|--|--|
| 770 | AH | 0 | "0"    |   |        |  |  |
| 760 | BK | 0 | "2986" |   |        |  |  |
| 750 |    |   |        |   |        |  |  |
| 740 |    |   |        |   |        |  |  |
| 730 |    |   |        |   |        |  |  |
| 720 |    |   |        |   |        |  |  |
| 710 |    |   |        |   |        |  |  |
| 700 |    |   |        | 0 | "3113" |  |  |
| 690 |    |   |        |   |        |  |  |
| 760 |    |   |        |   |        |  |  |
| 750 |    |   |        |   |        |  |  |
| 740 |    |   |        |   |        |  |  |
| 730 |    | 0 | "2631" |   |        |  |  |
| 720 |    |   |        |   |        |  |  |
| 710 |    |   |        |   |        |  |  |
| 700 |    |   |        |   |        |  |  |
|     |    |   |        | 0 | "3113" |  |  |

CROSS SECTIONS I-70 EASTBOUND  
 STA. 4175+63.96 TO STA. 4175+93.88

FRA-70/71-12.68/14.86

402  
 1815

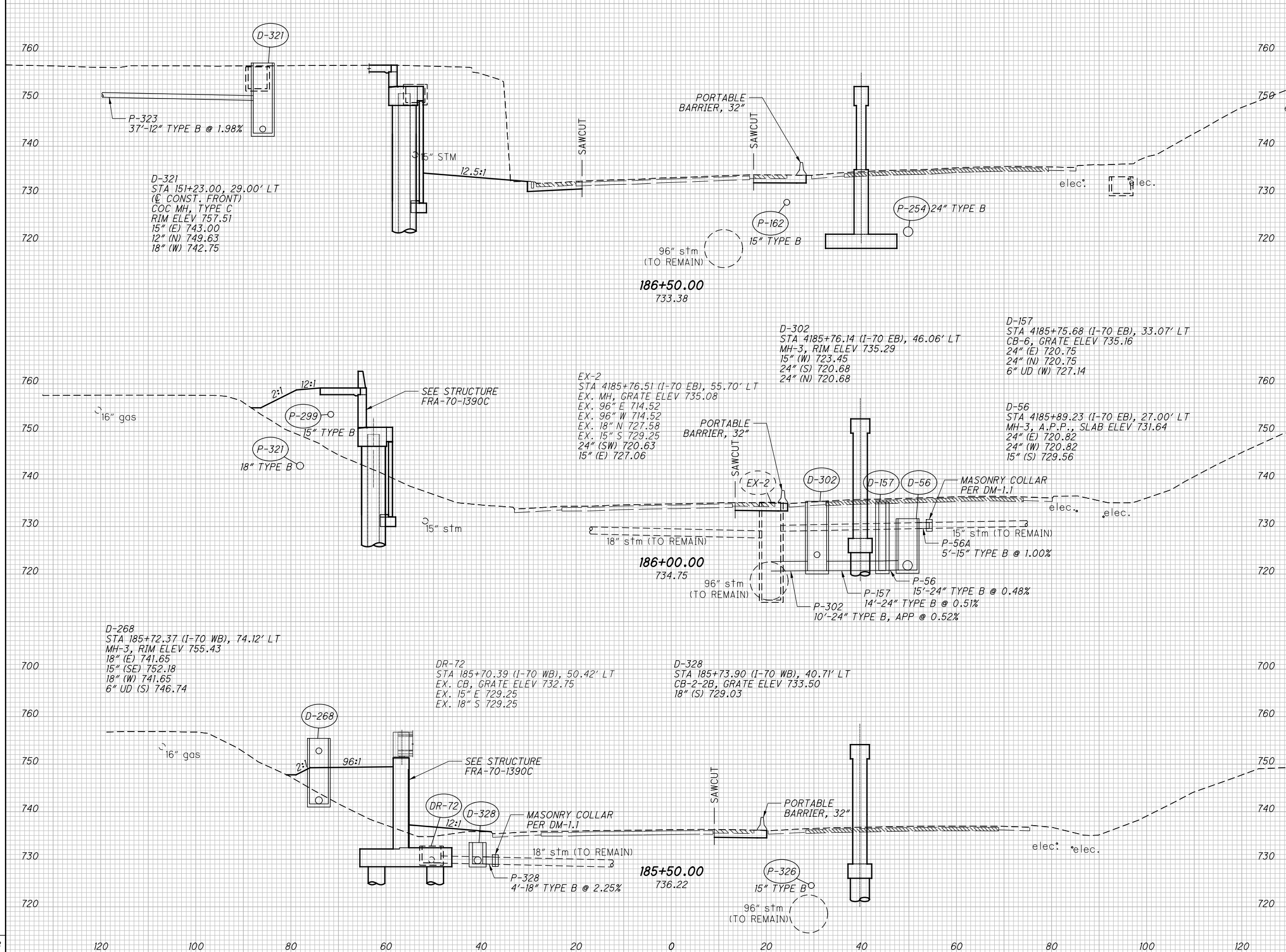
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| SEEDING   |
|-----------|
| END WIDTH |
| SO. YDS.  |

| NO. | DESCRIPTION  | REV. BY | DATE       |
|-----|--------------|---------|------------|
| 4   | GRADING LINE | CWL     | 11-29-2021 |

| END AREA |      | VOLUME |      | CALCULATED | TMT | CHECKED | CWL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT      | FILL | CUT    | FILL |            |     |         |     |

|     |
|-----|
| 139 |
| 23  |
| 106 |
| 15  |
| 153 |
| 40  |
| 398 |



|     |     |      |     |  |  |  |  |
|-----|-----|------|-----|--|--|--|--|
| 416 | 1   | 898  | 1   |  |  |  |  |
| 396 | 184 |      |     |  |  |  |  |
| 12  | 198 |      |     |  |  |  |  |
| 22  | 355 |      |     |  |  |  |  |
| 12  | 185 |      |     |  |  |  |  |
|     |     | 1316 | 540 |  |  |  |  |

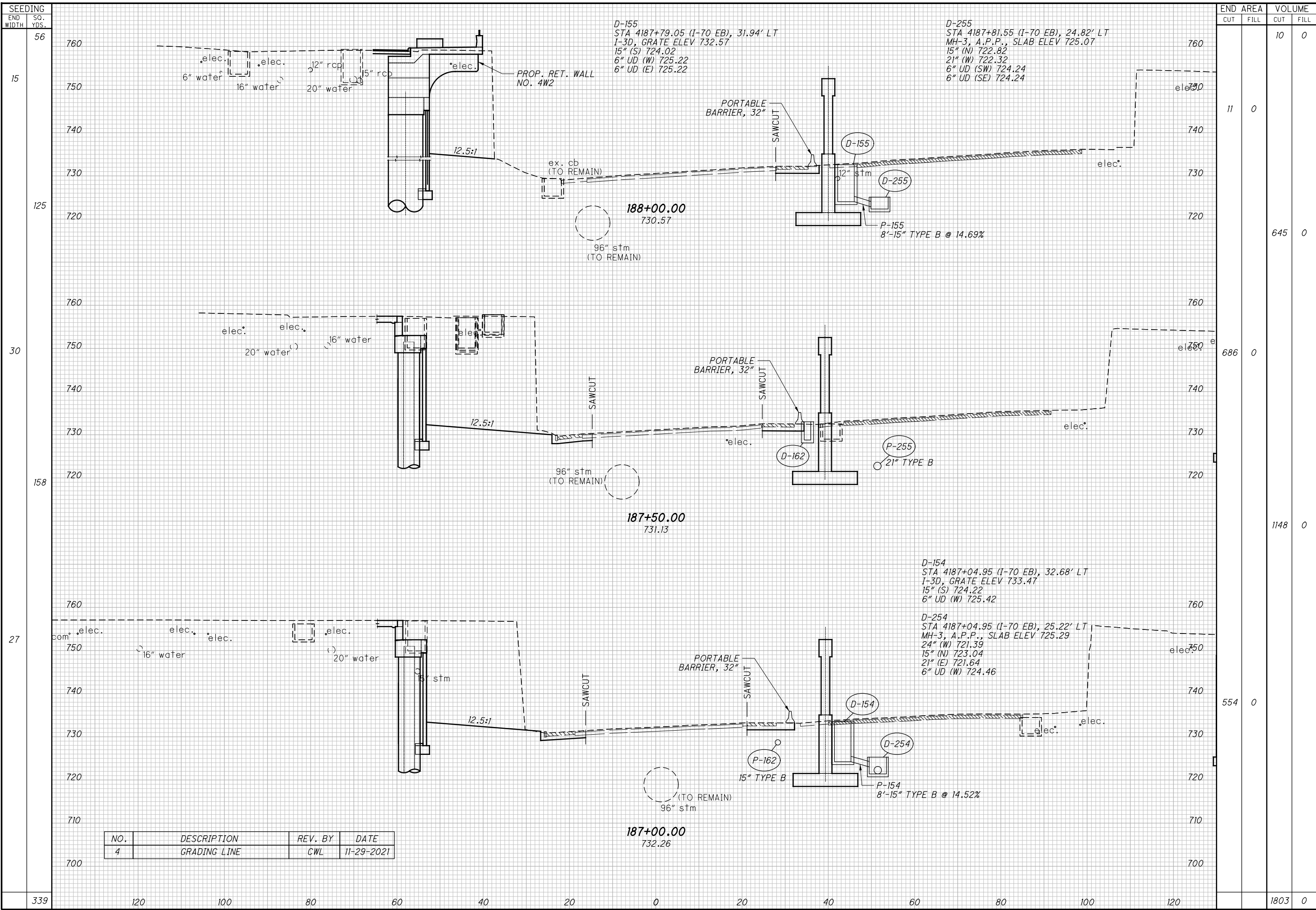
**CROSS SECTIONS I-70 WESTBOUND**  
**STA. 185+50.00 TO STA. 186+50.00**

**FRA-70/71-12.68/14.86**

427  
 1815

01-2812-2812048 V.FRA\185523\ROADWAY\185523\SHEETS\185523\S90P5.DGN  
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01-2812-2012048\FRA\105523\ROADWAY\105523\9095.DGN  
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**CROSS SECTIONS I-70 WESTBOUND**  
**STA. 187+00.00 TO STA. 188+00.00**

**FRA-70/71-12.68/14.86**





428  
 1815





| SEEDING   |          |
|-----------|----------|
| END WIDTH | SO. YDS. |
| 0         | 0        |

| NO. | DESCRIPTION          | REV. BY | DATE       |
|-----|----------------------|---------|------------|
| 1   | UPDATED HATCH LEGEND | CWL     | 11-5-2021  |
| 4   | EARTHWORK REVISED    | ATR     | 11-29-2021 |

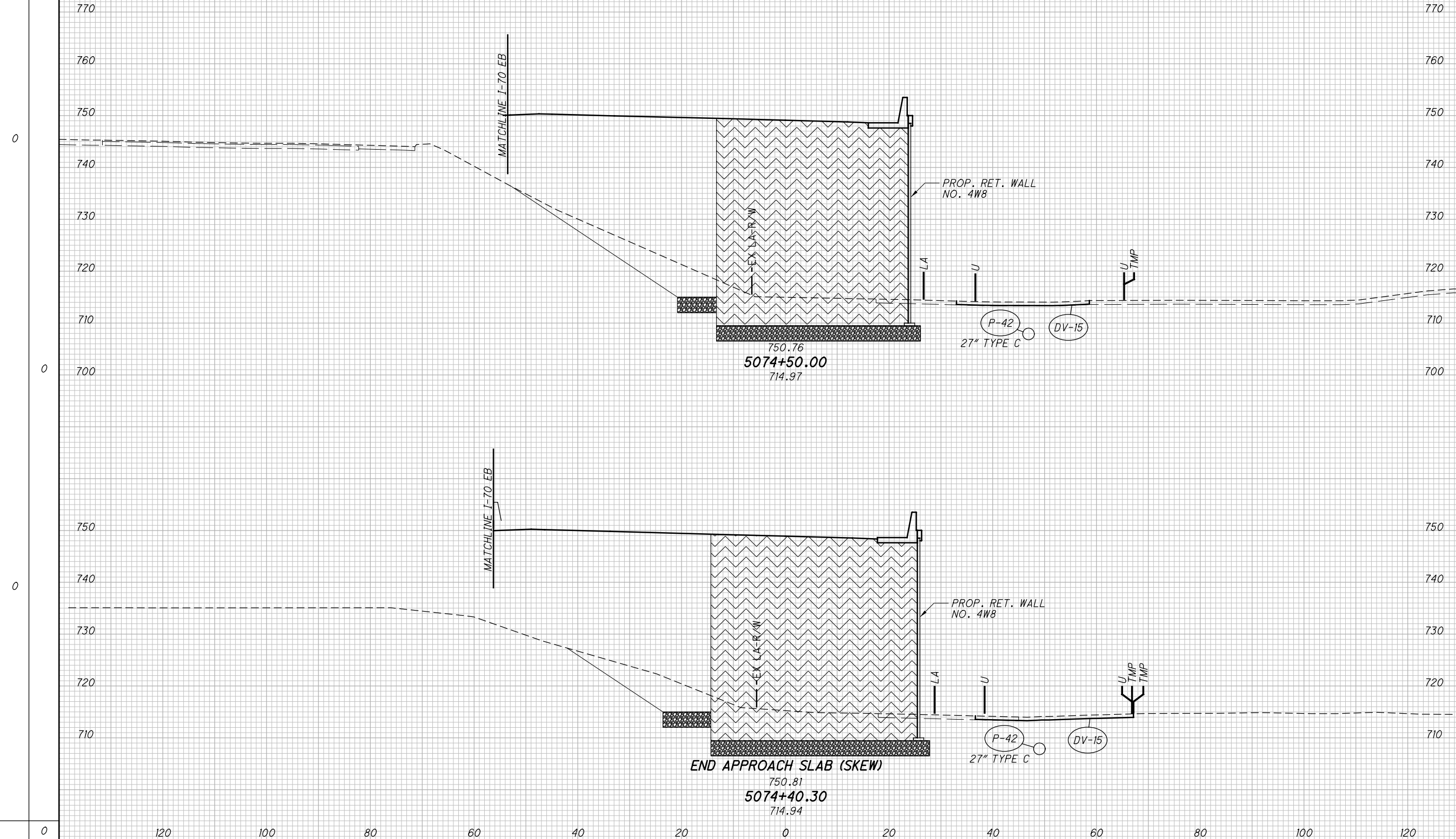
-  ITEM 202 - PAVEMENT REMOVED
-  ITEM 202 - PAVEMENT REMOVED, ASPHALT
- "#" ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN
-  SELECT GRANULAR BACKFILL PER SS840 (INCLUDED IN WALL QUANTITIES)
-  LOAD TRANSFER PLATFORM (INCLUDED WITH RETAINING WALL ITEM 203 - ROADWAY, MISC.: COLUMN SUPPORTED WALLS)

| END AREA | VOLUME | CALCULATED | CHECKED |     |      |     |      |
|----------|--------|------------|---------|-----|------|-----|------|
|          |        |            |         | CUT | FILL | CUT | FILL |
| 175      | "1049" | 60         | "393"   |     |      |     |      |
| 159      | "1140" | 280        | "1612"  |     |      |     |      |

**CROSS SECTIONS - RAMP C5**  
**STA. 5074+40.30 TO STA. 5074+50.00**

**FRA -70/ 71-12.68 / 14.86**

486  
 1815

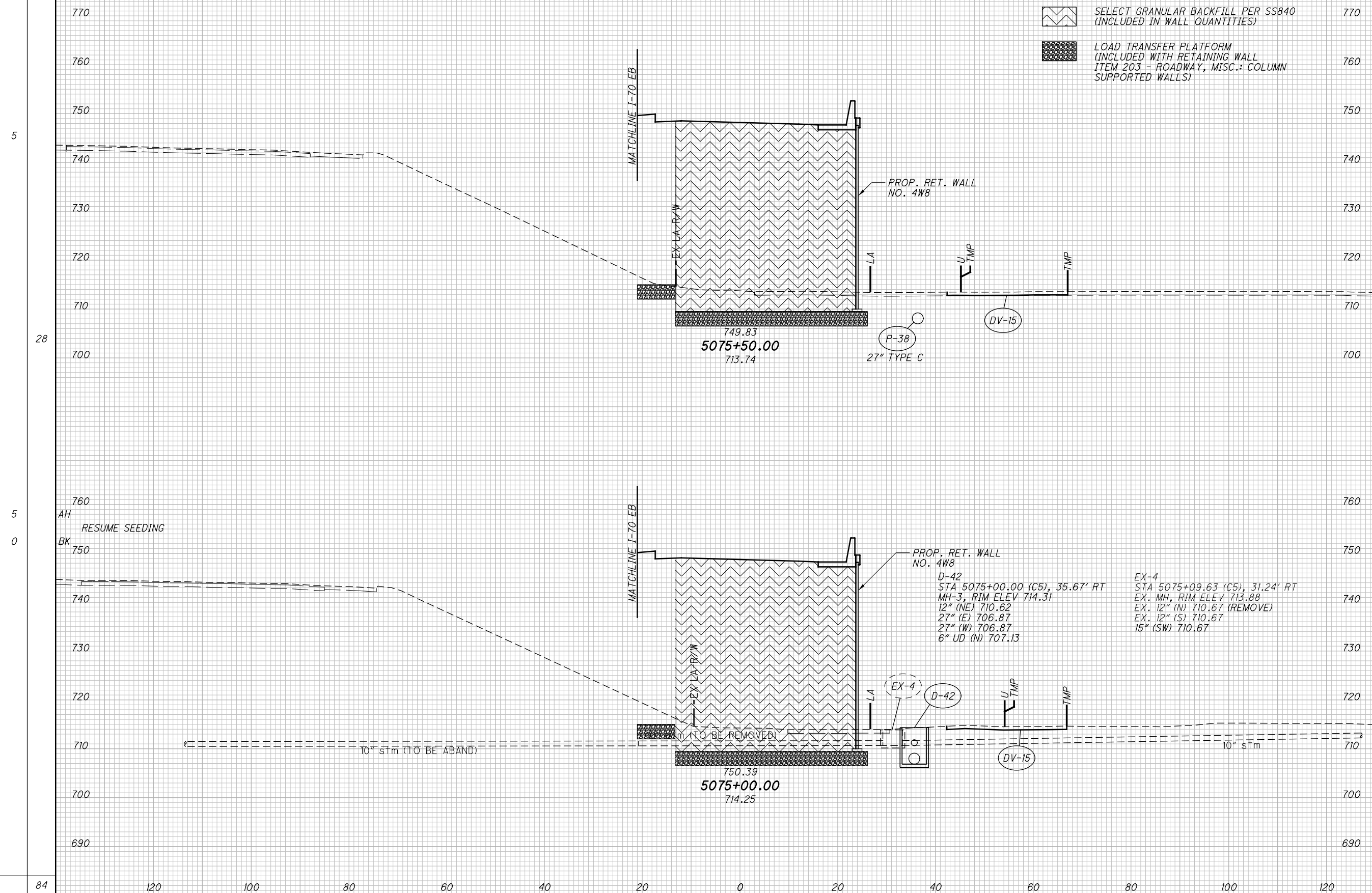


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SEEDING  
END WIDTH SO. YDS.

| NO. | DESCRIPTION          | REV. BY | DATE       |
|-----|----------------------|---------|------------|
| 1   | UPDATED HATCH LEGEND | CWL     | 11-5-2021  |
| 4   | EARTHWORK REVISED    | ATR     | 11-29-2021 |

| END AREA |      | VOLUME |      | CALCULATED | CHECKED |
|----------|------|--------|------|------------|---------|
| CUT      | FILL | CUT    | FILL |            |         |
|          |      | 72     | 482' |            |         |



- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- "#" ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN
- SELECT GRANULAR BACKFILL PER SS840 (INCLUDED IN WALL QUANTITIES)
- LOAD TRANSFER PLATFORM (INCLUDED WITH RETAINING WALL ITEM 203 - ROADWAY, MISC.: COLUMN SUPPORTED WALLS)

|    |     |      |    |      |
|----|-----|------|----|------|
| 56 | 43  | 263" | 98 | 491" |
| 5  | 63  | 267" |    |      |
| 84 | 170 | 473" | 2  | 487  |

**CROSS SECTIONS - RAMP C5**  
**STA. 5075+00.00 TO STA. 5075+50.00**

**FRA - 70/ 71-12.68 / 14.86**

1815

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




SEEDING  
END WIDTH SO. YDS.

| NO. | DESCRIPTION          | REV. BY | DATE       |
|-----|----------------------|---------|------------|
| 1   | UPDATED HATCH LEGEND | CWL     | 11-5-2021  |
| 4   | EARTHWORK REVISED    | ATR     | 11-29-2021 |

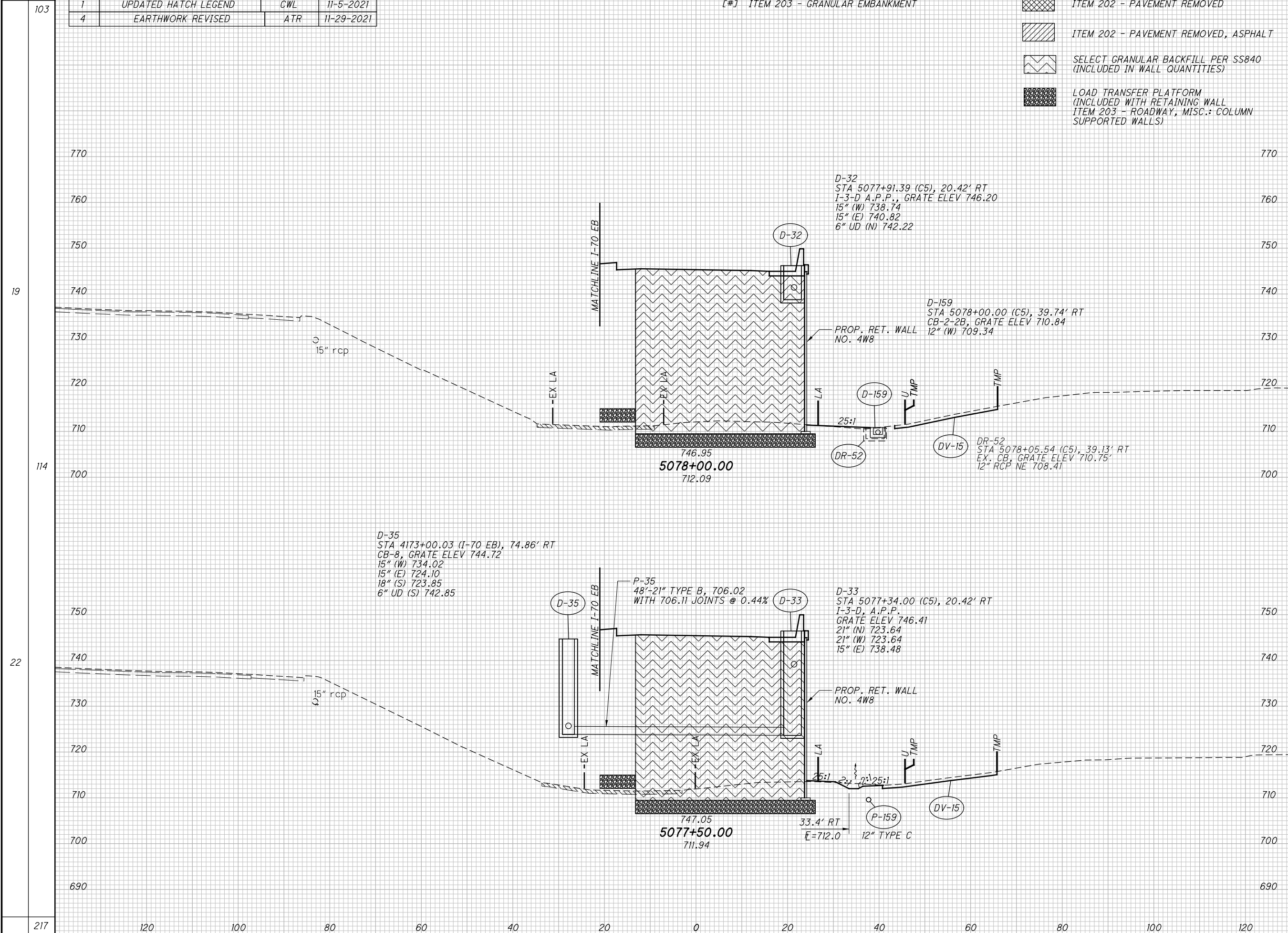
[#] ITEM 203 - GRANULAR EMBANKMENT

-  ITEM 202 - PAVEMENT REMOVED
-  ITEM 202 - PAVEMENT REMOVED, ASPHALT
-  SELECT GRANULAR BACKFILL PER SS840 (INCLUDED IN WALL QUANTITIES)
-  LOAD TRANSFER PLATFORM (INCLUDED WITH RETAINING WALL ITEM 203 - ROADWAY, MISC.: COLUMN SUPPORTED WALLS)

| END AREA | VOLUME |      | CALCULATED | CHECKED |
|----------|--------|------|------------|---------|
|          | CUT    | FILL |            |         |
| 15       |        |      | 26         |         |
| 15       | [242]  |      | 33         | [449]   |
| 23       |        |      | 23         |         |
| 23       | [242]  |      | 35         | [448]   |
| 10       |        |      | 49         |         |
| 68       | [897]  |      | 490        | 1815    |

**CROSS SECTIONS - RAMP C5**  
**STA. 5077+50.00 TO STA. 5078+00.00**

**FRA - 70/ 71-12.68 / 14.86**

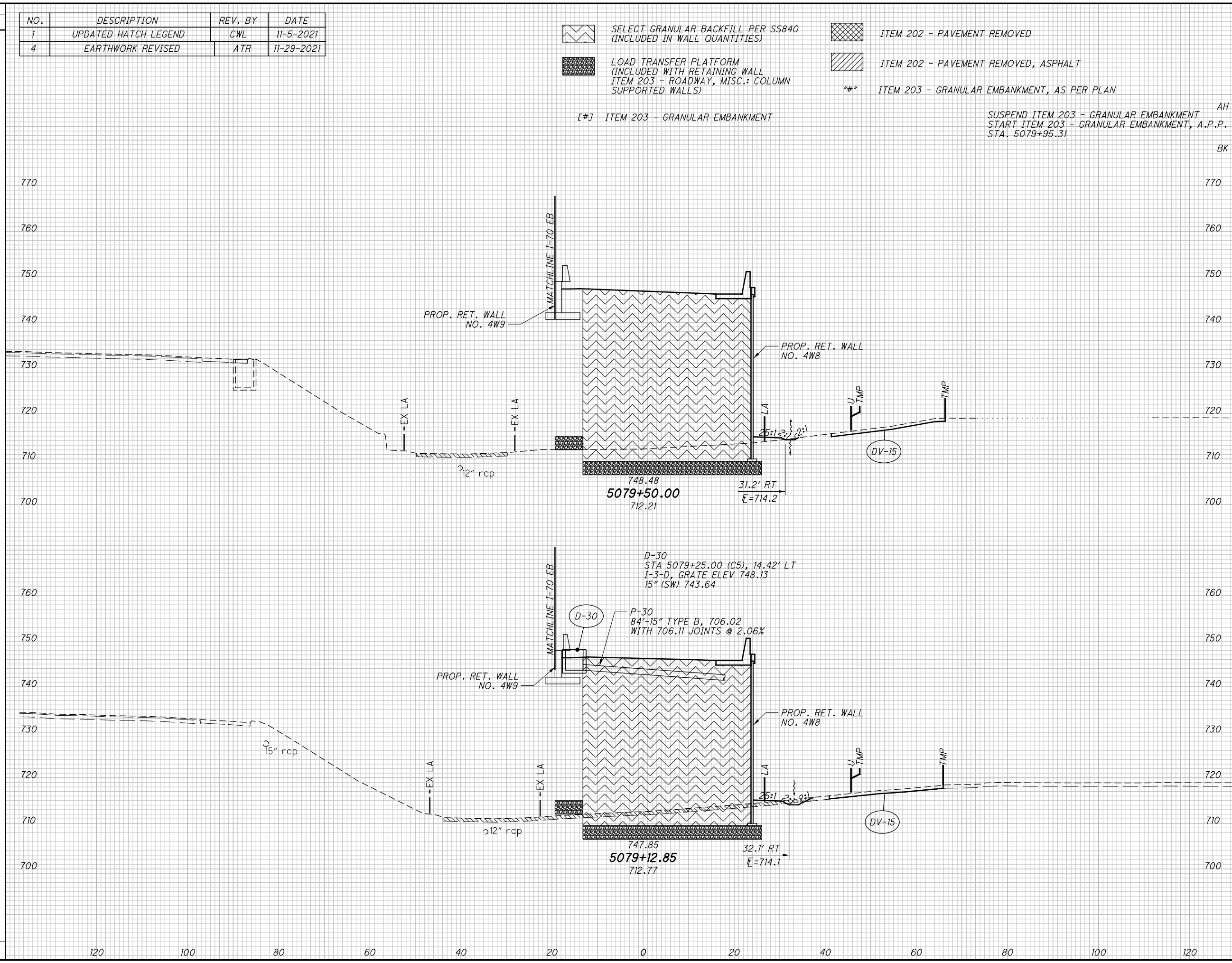


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| SEEDING | END WIDTH |                      | SO. YDS.       |
|---------|-----------|----------------------|----------------|
|         | NO.       | DESCRIPTION          |                |
| 57      | 1         | UPDATED HATCH LEGEND | CWL 11-5-2021  |
|         | 4         | EARTHWORK REVISED    | ATR 11-29-2021 |



- SELECT GRANULAR BACKFILL PER SS840 (INCLUDED IN WALL QUANTITIES)
- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- LOAD TRANSFER PLATFORM (INCLUDED WITH RETAINING WALL ITEM 203 - ROADWAY, MISC.: COLUMN SUPPORTED WALLS)
- ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN
- ITEM 203 - GRANULAR EMBANKMENT

AH  
 SUSPEND ITEM 203 - GRANULAR EMBANKMENT  
 START ITEM 203 - GRANULAR EMBANKMENT, A.P.P.  
 STA. 5079+95.31

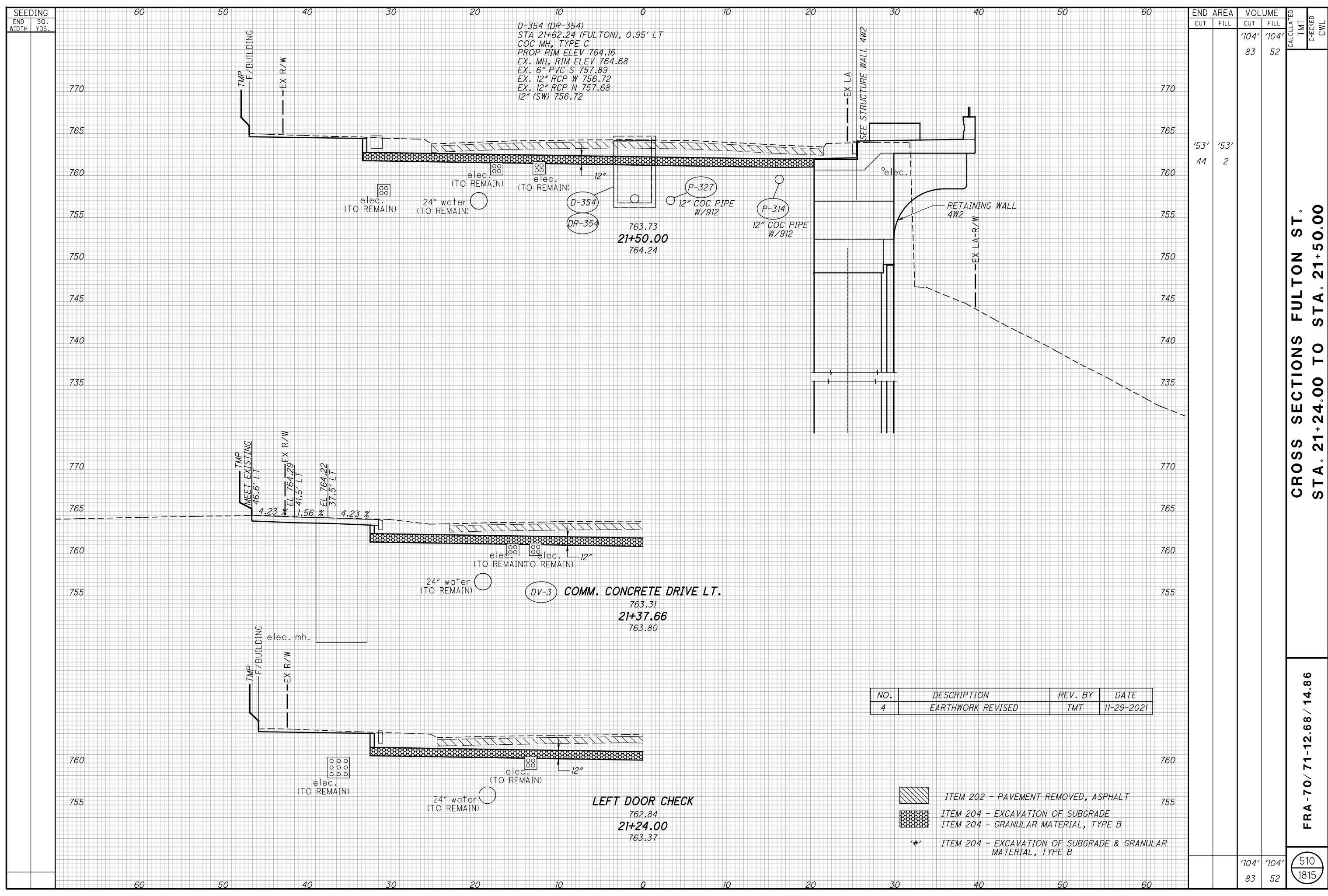
| END AREA | VOLUME |      | CALCULATED | CHECKED |
|----------|--------|------|------------|---------|
|          | CUT    | FILL |            |         |
| 183"     |        |      | 33         | 32"     |
| [183]    |        |      |            |         |
| 6        |        |      |            |         |
| 18 [183] |        |      |            |         |
| 13       |        |      |            |         |
| 28 [248] |        |      |            |         |
| 13       |        |      |            |         |
| 22 [178] |        |      |            |         |
| 13       |        |      |            |         |
| 61 [555] |        |      |            |         |

**CROSS SECTIONS - RAMP C5**  
**STA. 5079+12.85 TO STA. 5079+50.00**  
**FRA - 70/ 71-12.68 / 14.86**

492  
 1815



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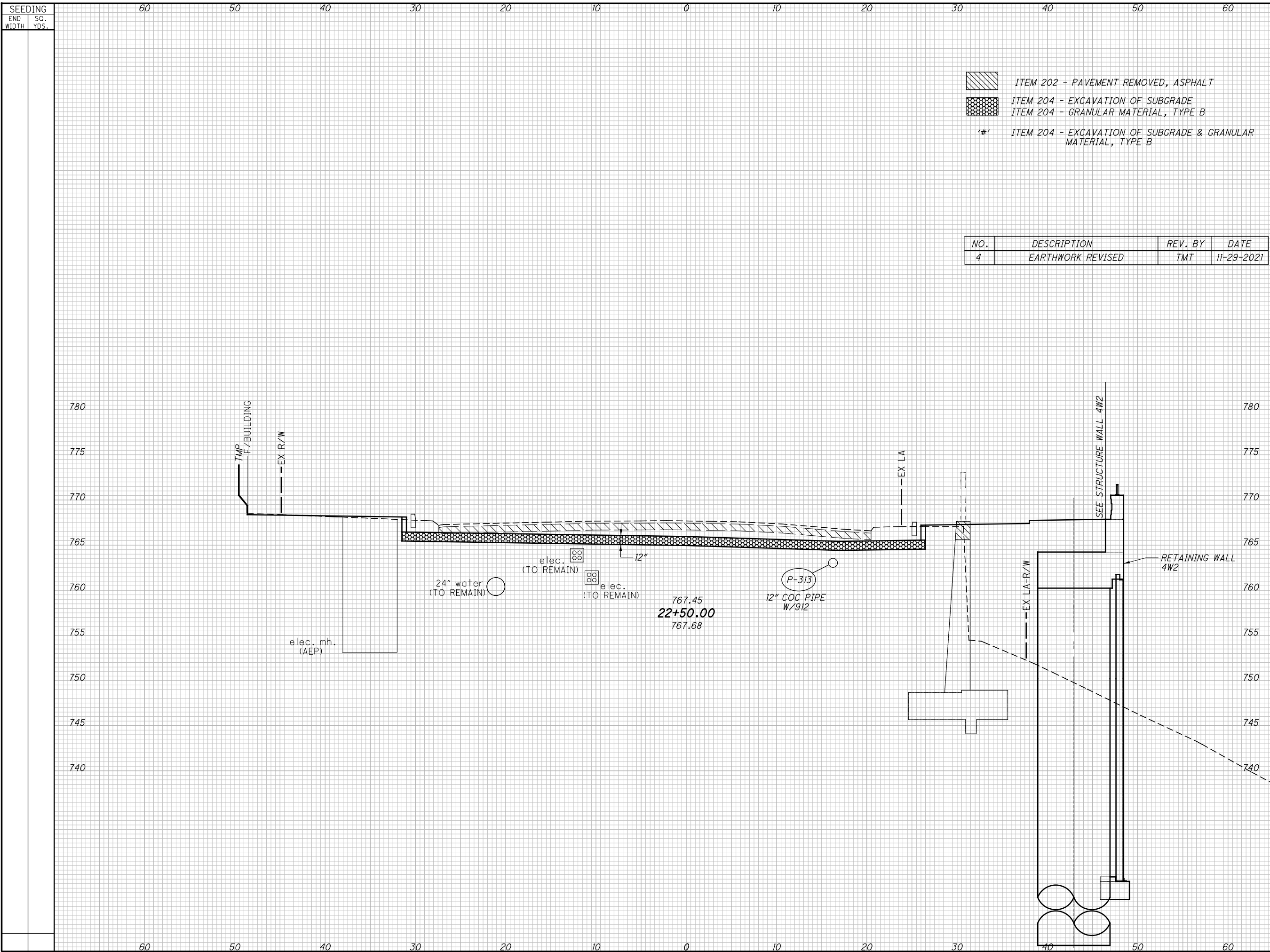
**CROSS SECTIONS FULTON ST.  
 STA. 21+24.00 TO STA. 21+50.00**



**FRA - 70 / 71 - 12.68 / 14.86**

**510**  
**1815**







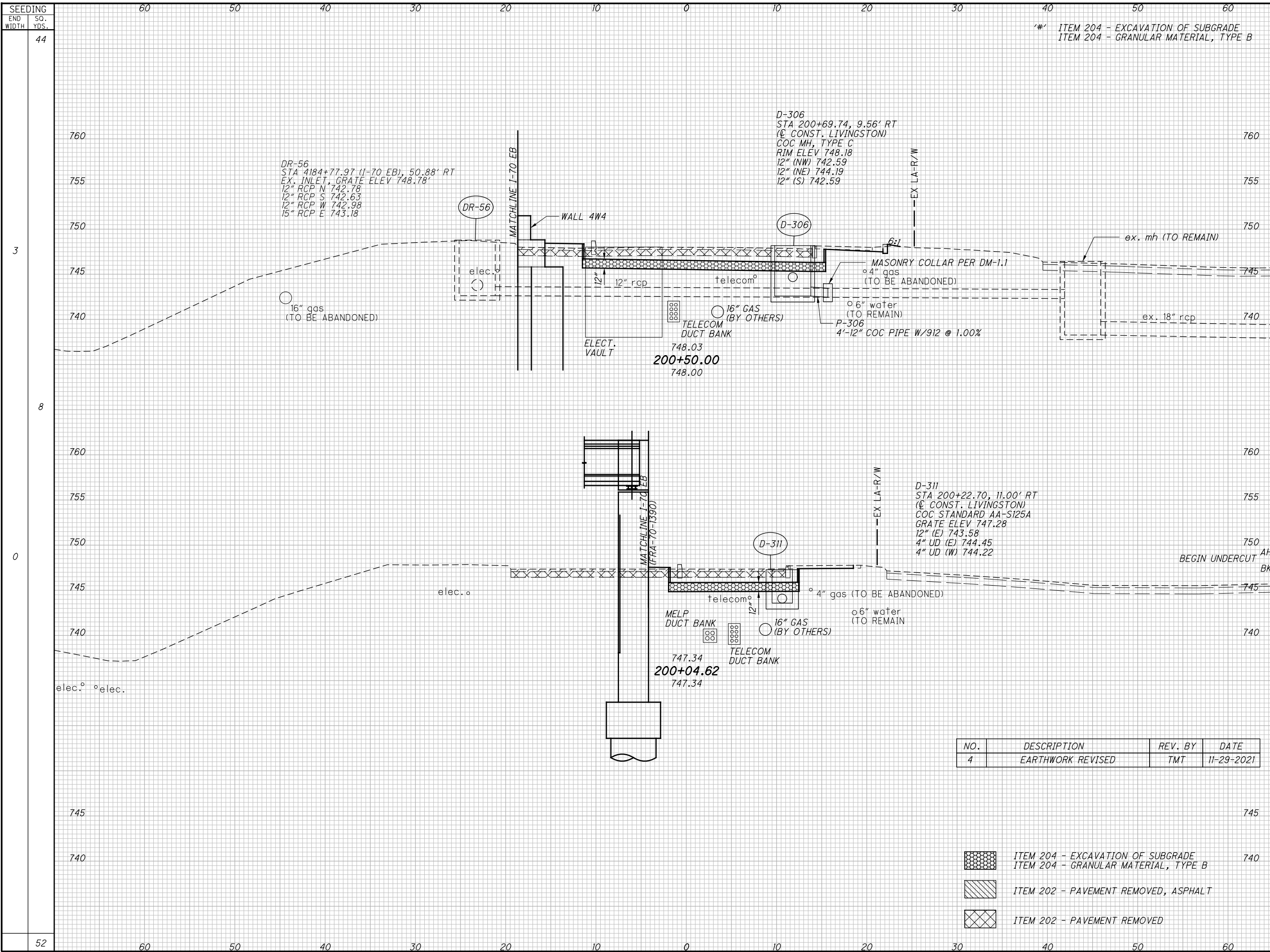
-  ITEM 202 - PAVEMENT REMOVED, ASPHALT
-  ITEM 204 - EXCAVATION OF SUBGRADE  
ITEM 204 - GRANULAR MATERIAL, TYPE B
- '#' ITEM 204 - EXCAVATION OF SUBGRADE & GRANULAR MATERIAL, TYPE B

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | TMT     | 11-29-2021 |

| END AREA | VOLUME | CALCULATED | TMT   | CHECKED | CWL  |
|----------|--------|------------|-------|---------|------|
|          |        |            |       |         |      |
| '107'    | '107'  | 67         | 61    |         |      |
| '58'     | '58'   | 33         | 63    |         |      |
|          |        | '107'      | '107' | 512     | 1815 |
|          |        | 67         | 61    |         |      |

**CROSS SECTIONS FULTON ST.  
STA. 22+50.00**

**FRA - 70 / 71 - 12.68 / 14.86**



#' ITEM 204 - EXCAVATION OF SUBGRADE  
 ITEM 204 - GRANULAR MATERIAL, TYPE B

| END AREA | VOLUME |      | CALCULATED | CHECKED | TMT |
|----------|--------|------|------------|---------|-----|
|          | CUT    | FILL |            |         |     |
| '27'     | '27'   | '27' |            |         |     |
| 16       | 6      | 6    |            |         |     |
| '35'     | '35'   | '35' |            |         |     |
| 21       | 8      | 8    |            |         |     |
| '15'     | '15'   | '15' |            |         |     |
| 9        | 3      | 3    |            |         |     |
| '84'     | '84'   | '84' |            |         |     |
| 50       | 28     | 28   |            |         |     |

**CROSS SECTIONS LIVINGSTON AVENUE**  
**STA. 200+00.00 TO STA. 200+50.00**

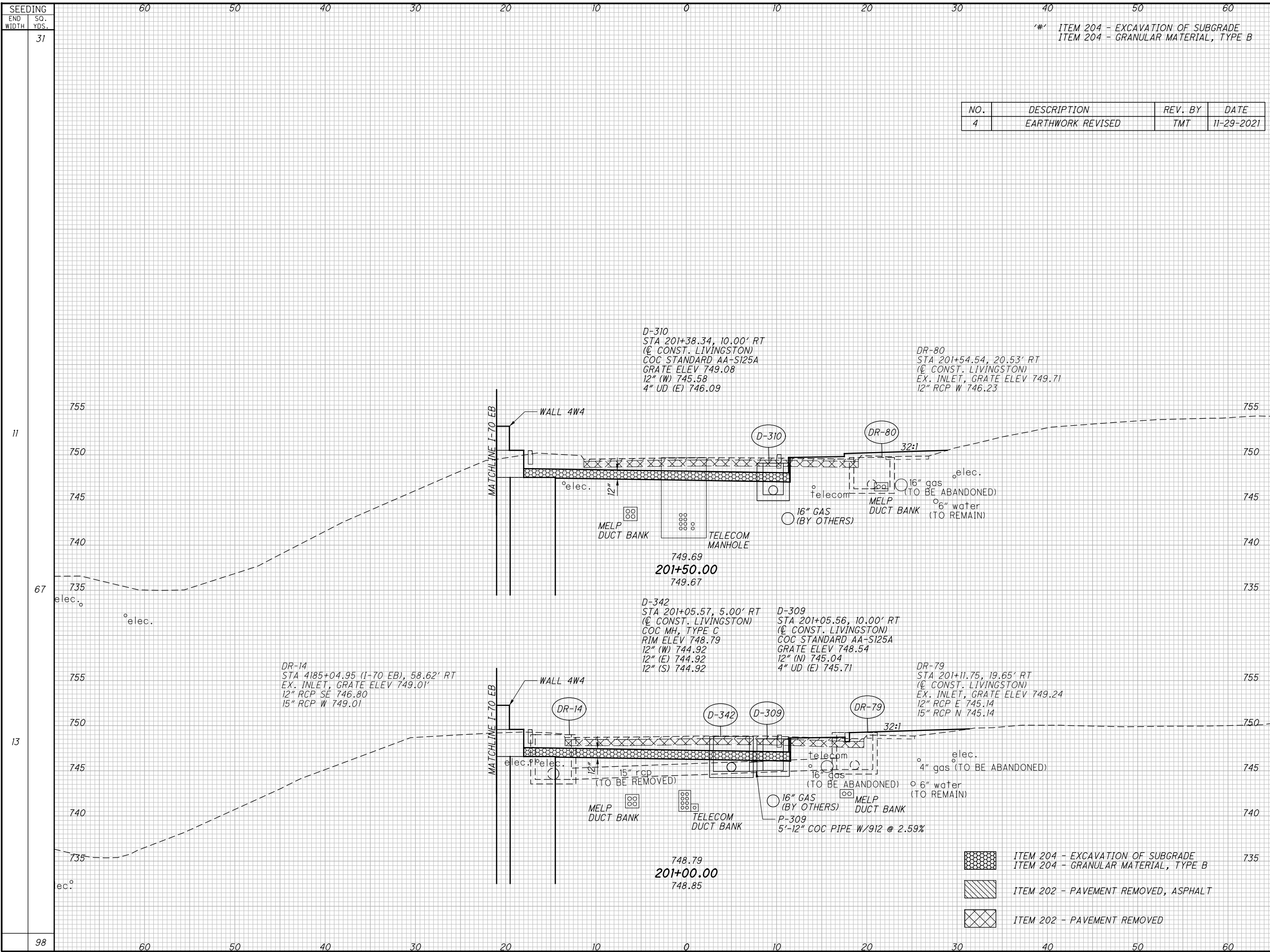
**FRA - 70 / 71 - 12.68 / 14.86**

514  
 1815

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | TMT     | 11-29-2021 |

- ITEM 204 - EXCAVATION OF SUBGRADE
- ITEM 204 - GRANULAR MATERIAL, TYPE B
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- ITEM 202 - PAVEMENT REMOVED

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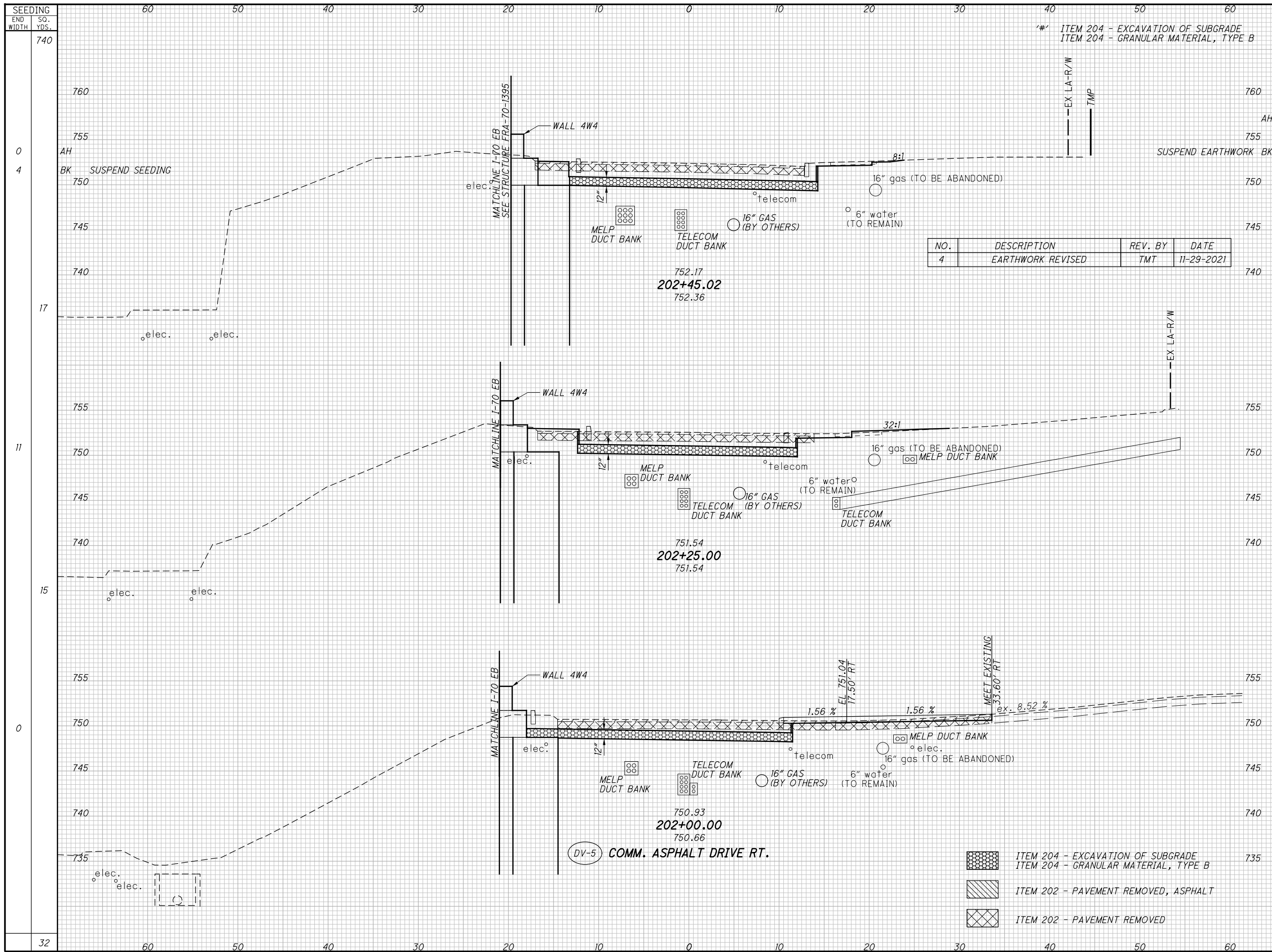
#' ITEM 204 - EXCAVATION OF SUBGRADE  
 ITEM 204 - GRANULAR MATERIAL, TYPE B

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | TMT     | 11-29-2021 |

| END AREA | VOLUME | CALCULATED | CHECKED | TMT         |
|----------|--------|------------|---------|-------------|
|          |        |            |         |             |
| '29'     | '29'   | 17         | 15      |             |
| '54'     | '54'   | 30         | 29      |             |
| '29'     | '29'   | 15         | 16      |             |
| '108'    | '108'  | 51         | 57      | 515<br>1815 |

CROSS SECTIONS LIVINGSTON AVENUE  
 STA. 201+00.00 TO STA. 201+50.00

FRA - 70/ 71-12.68 / 14.86



| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | TMT     | 11-29-2021 |

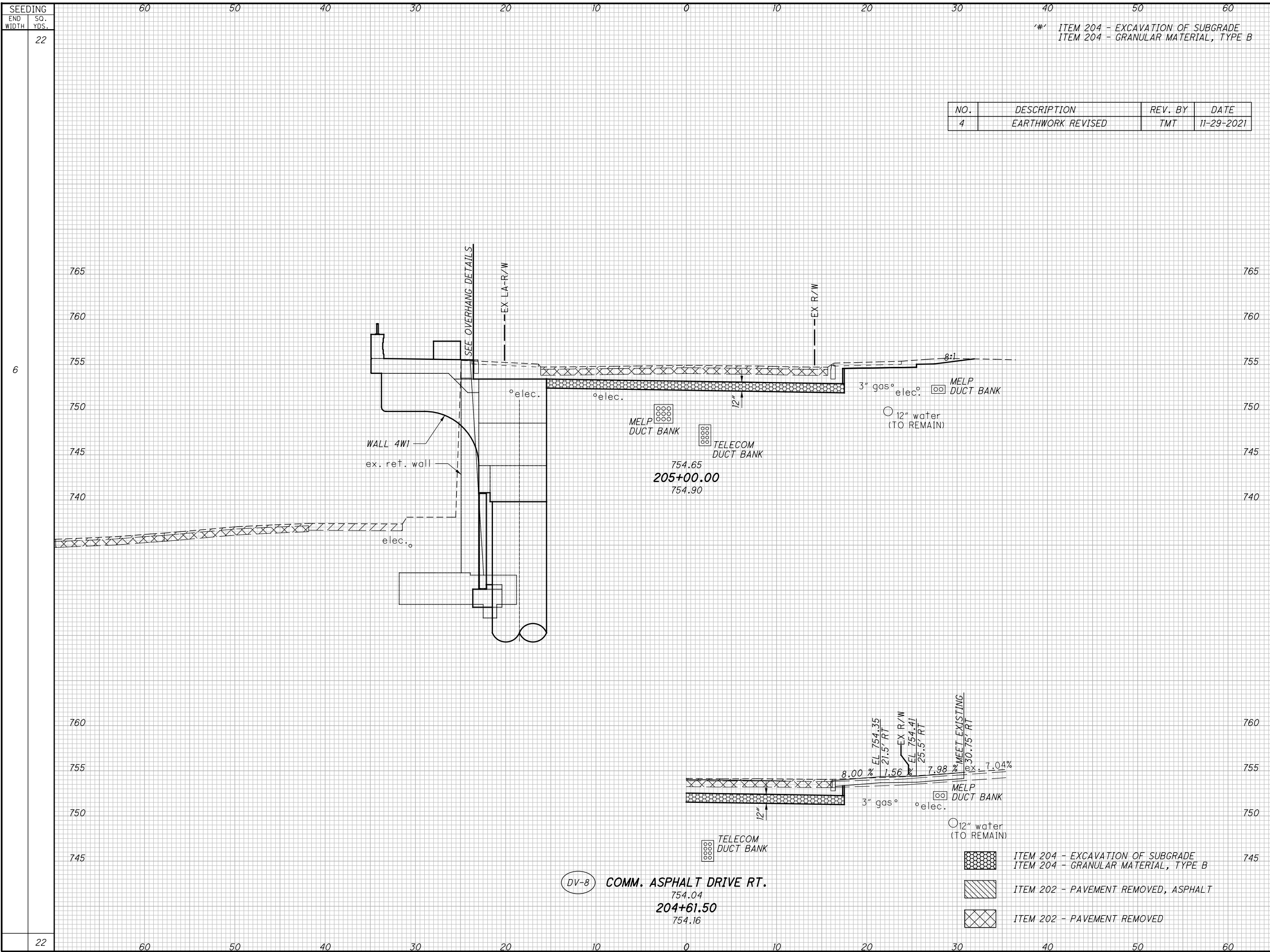
- ITEM 204 - EXCAVATION OF SUBGRADE  
ITEM 204 - GRANULAR MATERIAL, TYPE B
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- ITEM 202 - PAVEMENT REMOVED

| SEEDING<br>END<br>WIDTH | SO.<br>YDS. | END AREA |      | VOLUME |      | CALCULATED<br>JMB | CHECKED<br>TMT |
|-------------------------|-------------|----------|------|--------|------|-------------------|----------------|
|                         |             | CUT      | FILL | CUT    | FILL |                   |                |
| 0                       | 4           | '0'      | '0'  |        |      |                   |                |
| 17                      |             | '27'     | '27' | 19'    | 19'  | 13                | 5              |
| 11                      |             | '24'     | '24' | '25'   | '25' | 13                | 9              |
| 15                      |             | '13'     | '9'  | 9      | 11   |                   |                |
| 0                       |             | '29'     | '29' | 6      | 15   |                   |                |
| 32                      |             |          |      | '44'   | '44' | 22                | 16             |

**CROSS SECTIONS LIVINGSTON AVENUE  
 STA. 202+00.00 TO STA. 202+45.02**

**FRA - 70 / 71 - 12.68 / 14.86**

516  
 1815



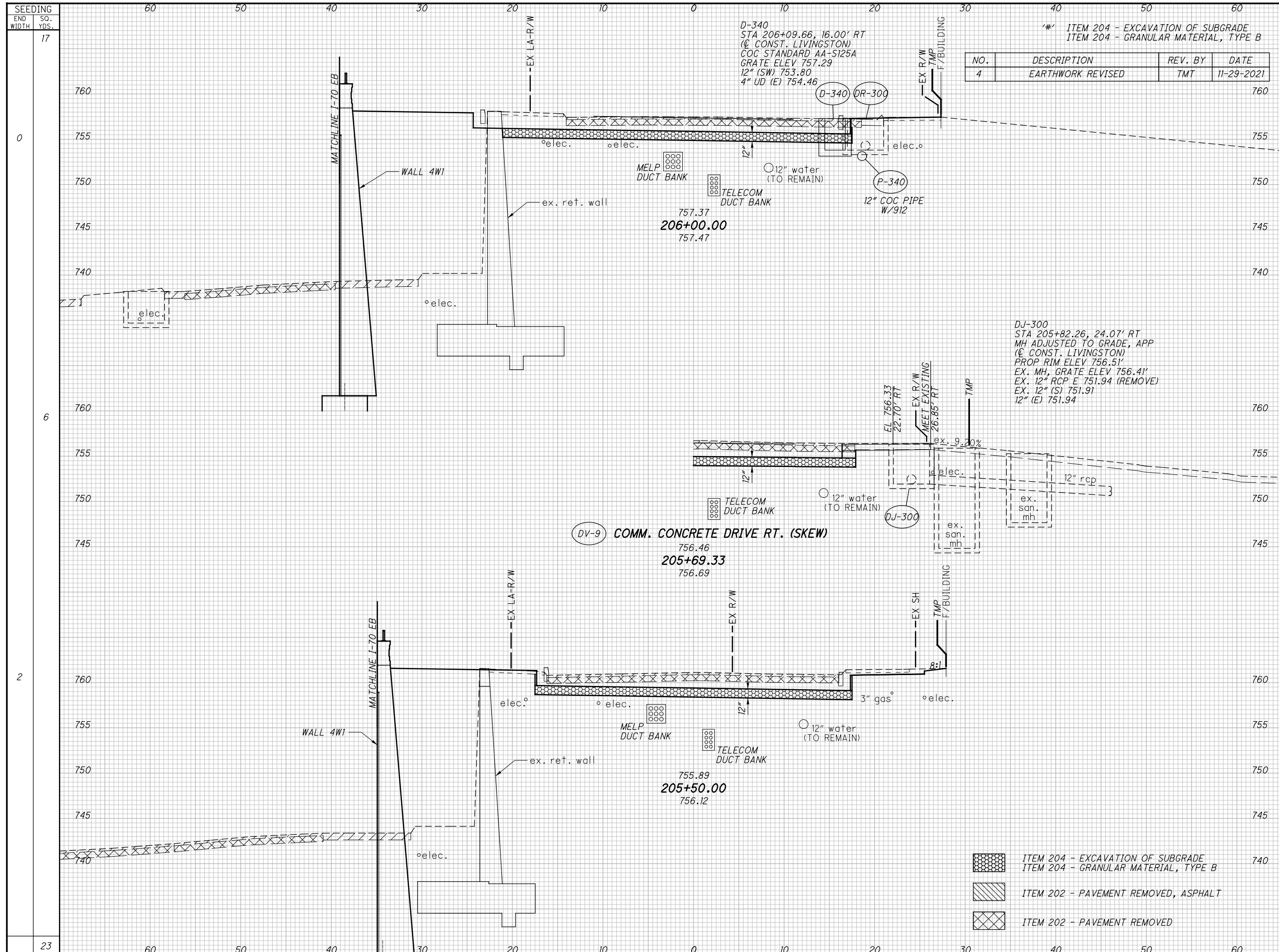
| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | TMT     | 11-29-2021 |

| SEEDING | END WIDTH | SO. YDS. | END AREA |      | VOLUME |      | CALCULATED | CHECKED | TMT  |
|---------|-----------|----------|----------|------|--------|------|------------|---------|------|
|         |           |          | CUT      | FILL | CUT    | FILL |            |         |      |
| 22      |           |          |          |      | '63'   | '63' | JMB        |         |      |
|         |           |          |          |      | 55     | 31   | TMT        |         |      |
| 22      |           |          |          |      | '63'   | '63' |            |         | 518  |
|         |           |          |          |      | 55     | 31   |            |         | 1815 |

CROSS SECTIONS LIVINGSTON AVENUE  
 STA. 204+61.50 TO STA. 205+00.00

FRA - 70 / 71 - 12.68 / 14.86

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D-340  
 STA 206+09.66, 16.00' RT  
 (C CONST. LIVINGSTON)  
 COC STANDARD AA-S125A  
 GRATE ELEV 757.29  
 12" (SW) 753.80  
 4" UD (E) 754.46

'#'  
 ITEM 204 - EXCAVATION OF SUBGRADE  
 ITEM 204 - GRANULAR MATERIAL, TYPE B

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | TMT     | 11-29-2021 |

DJ-300  
 STA 205+82.26, 24.07' RT  
 MH ADJUSTED TO GRADE, APP  
 (C CONST. LIVINGSTON)  
 PROP RIM ELEV 756.51'  
 EX. MH, GRATE ELEV 756.41'  
 EX. 12" RCP E 751.94 (REMOVE)  
 EX. 12" (S) 751.91  
 12" (E) 751.94

DV-9 COMM. CONCRETE DRIVE RT. (SKEW)  
 756.46  
 205+69.33  
 756.69

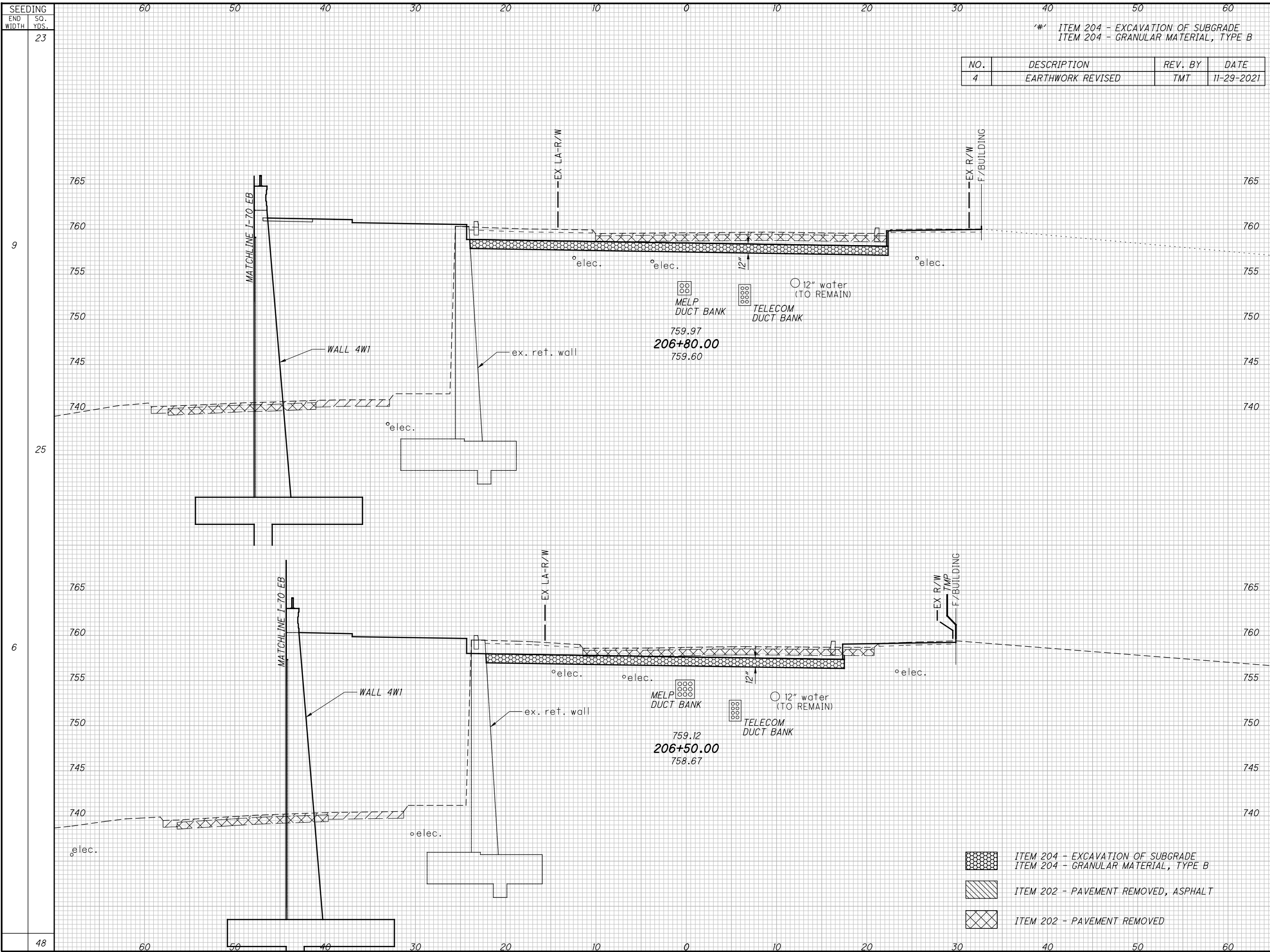
- ITEM 204 - EXCAVATION OF SUBGRADE
- ITEM 204 - GRANULAR MATERIAL, TYPE B
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- ITEM 202 - PAVEMENT REMOVED

| SEEDING | END WIDTH | SO. YDS. | END AREA |      | VOLUME |       | CALCULATED | CHECKED | TMT |
|---------|-----------|----------|----------|------|--------|-------|------------|---------|-----|
|         |           |          | CUT      | FILL | CUT    | FILL  |            |         |     |
| 17      |           |          |          |      |        |       |            |         |     |
| 0       |           |          | '39'     | '39' | '72'   | '72'  |            |         |     |
|         |           |          | 30       | 47   | 44     | 104   |            |         |     |
| 6       |           |          |          |      | '68'   | '68'  |            |         |     |
|         |           |          | 53       | 75   |        |       |            |         |     |
| 2       |           |          | '35'     | '35' |        |       |            |         |     |
|         |           |          | 27       | 34   |        |       |            |         |     |
| 23      |           |          |          |      | '140'  | '140' |            |         |     |
|         |           |          | 97       | 179  |        |       |            |         |     |

CROSS SECTIONS LIVINGSTON AVENUE  
 STA. 205+50.00 TO STA. 206+00.00

FRA - 70 / 71 - 12.68 / 14.86

519  
 1815



# ITEM 204 - EXCAVATION OF SUBGRADE  
 ITEM 204 - GRANULAR MATERIAL, TYPE B

| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | TMT     | 11-29-2021 |

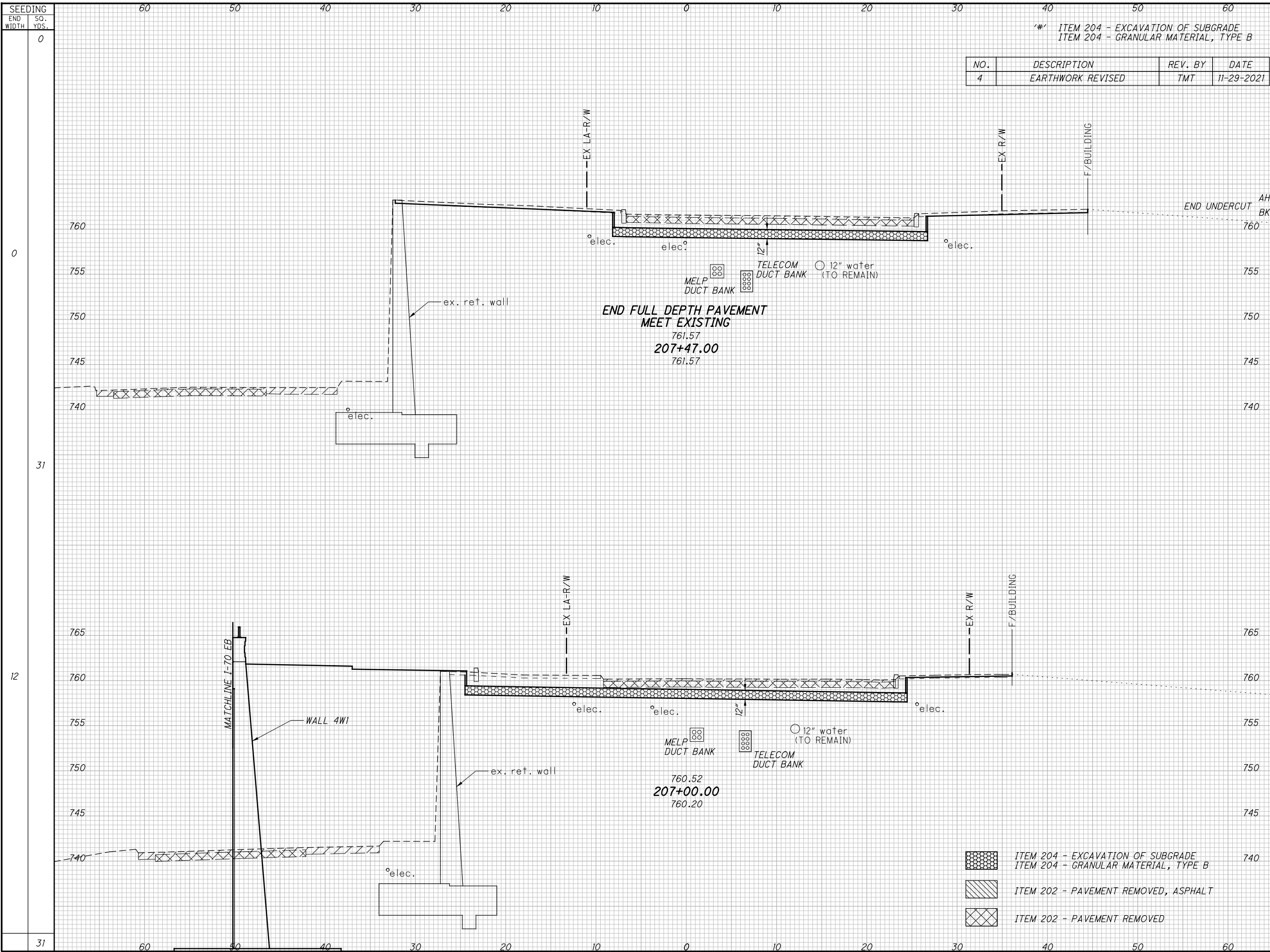
| END AREA | VOLUME | CALCULATED | CHECKED | TMT |
|----------|--------|------------|---------|-----|
|          |        |            |         |     |
| '46'     | '46'   |            |         |     |
| 23       | 71     |            |         |     |
| '48'     | '48'   |            |         |     |
| 22       | 76     |            |         |     |
| '40'     | '40'   |            |         |     |
| 17       | 65     |            |         |     |
| '83'     | '83'   |            |         |     |
| 41       | 129    |            |         |     |

**CROSS SECTIONS LIVINGSTON AVENUE  
 STA. 206+50.00 TO STA. 206+80.00**

**FRA - 70/ 71-12.68 / 14.86**

520  
1815

- ITEM 204 - EXCAVATION OF SUBGRADE
- ITEM 204 - GRANULAR MATERIAL, TYPE B
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- ITEM 202 - PAVEMENT REMOVED



| NO. | DESCRIPTION       | REV. BY | DATE       |
|-----|-------------------|---------|------------|
| 4   | EARTHWORK REVISED | TMT     | 11-29-2021 |

| END AREA | VOLUME |      | CALCULATED | CHECKED | TMT |
|----------|--------|------|------------|---------|-----|
|          | CUT    | FILL |            |         |     |
| '0'      | '0'    | '0'  | 1          | 0       |     |
| '35'     | '35'   | '35' |            |         |     |
| 22       | 2      |      |            |         |     |
|          | '73'   | '73' |            |         |     |
| 44       | 65     |      |            |         |     |
|          | '49'   | '49' |            |         |     |
| 28       | 73     |      |            |         |     |
|          | '73'   | '73' |            |         |     |
| 45       | 65     |      |            |         |     |

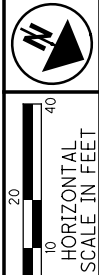
**CROSS SECTIONS LIVINGSTON AVENUE**  
**STA. 207+00.00 TO STA. 207+47.00**

**FRA -70/ 71-12.68 / 14.86**

521  
 1815

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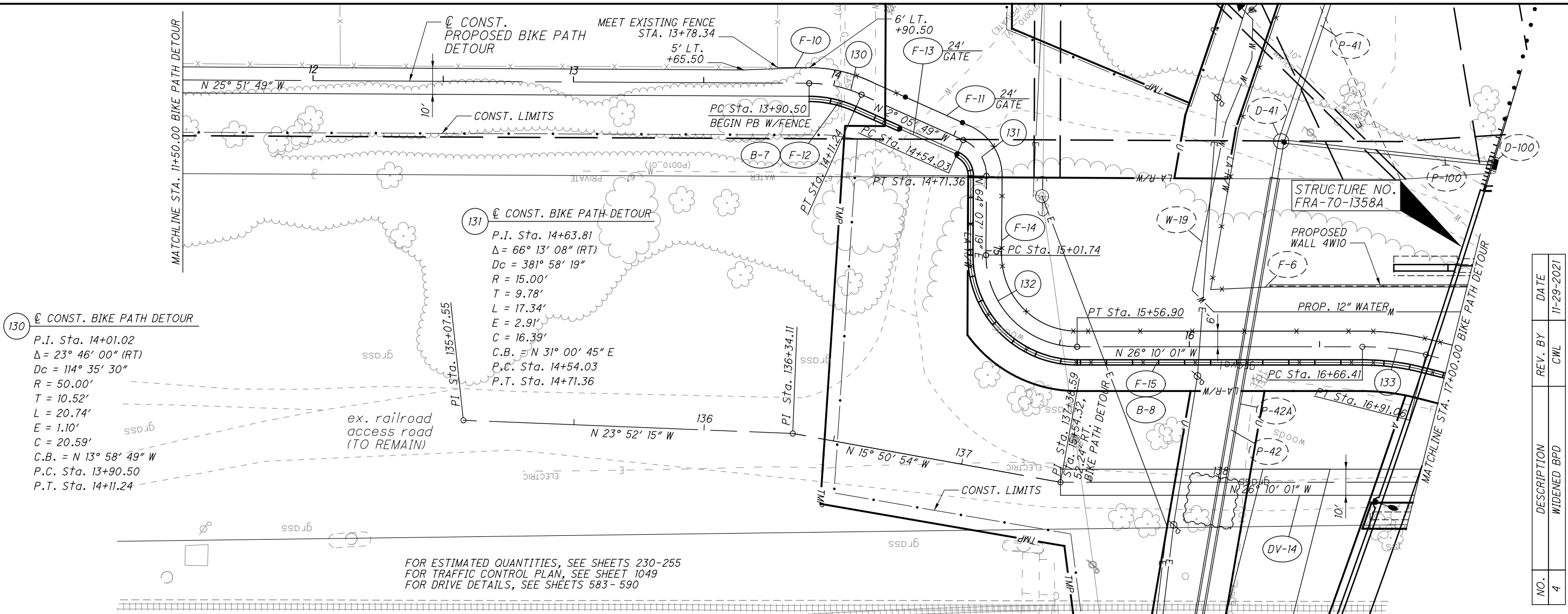
CALCULATED  
CJC  
CHECKED  
CWL

**PLAN AND PROFILE BIKE PATH DETOUR**  
**STA. 11+50.00 TO STA. 17+00.00**

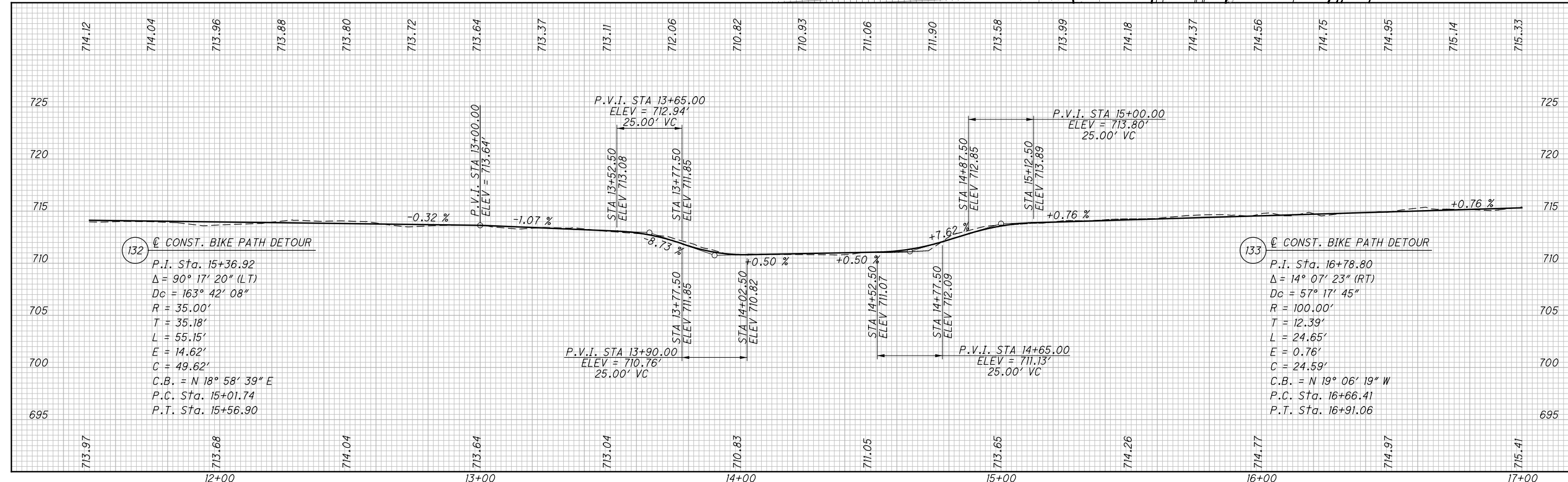
| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

**FRA -70/ 71-12.68 / 14.86**

638  
1815



FOR ESTIMATED QUANTITIES, SEE SHEETS 230-255  
FOR TRAFFIC CONTROL PLAN, SEE SHEET 1049  
FOR DRIVE DETAILS, SEE SHEETS 583-590



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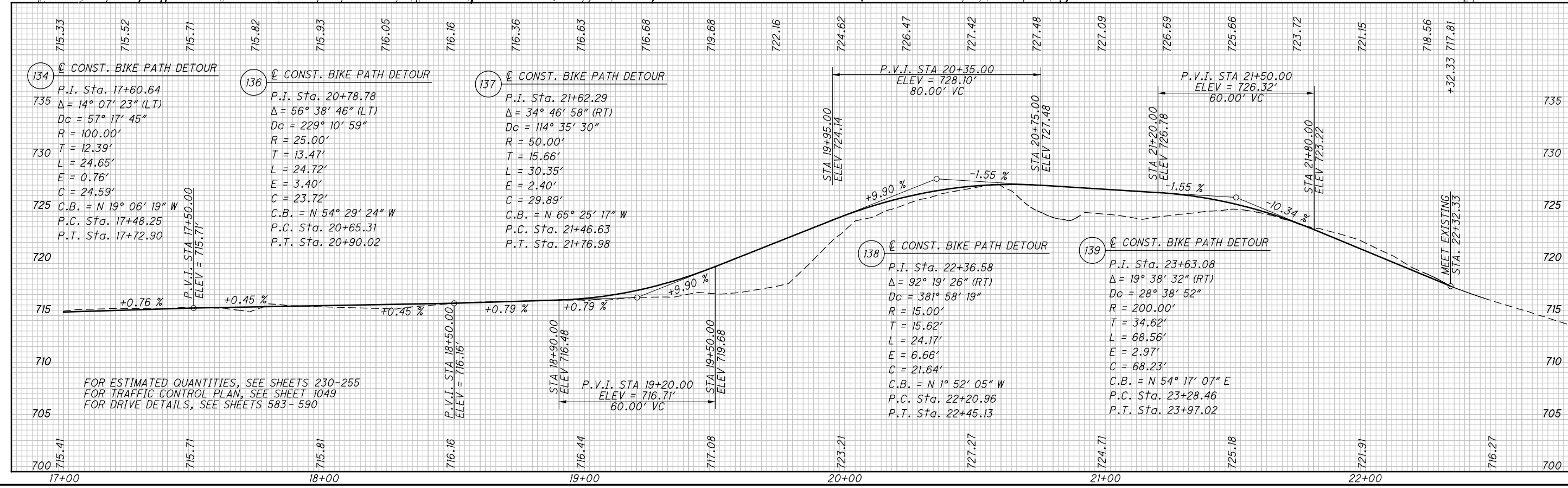
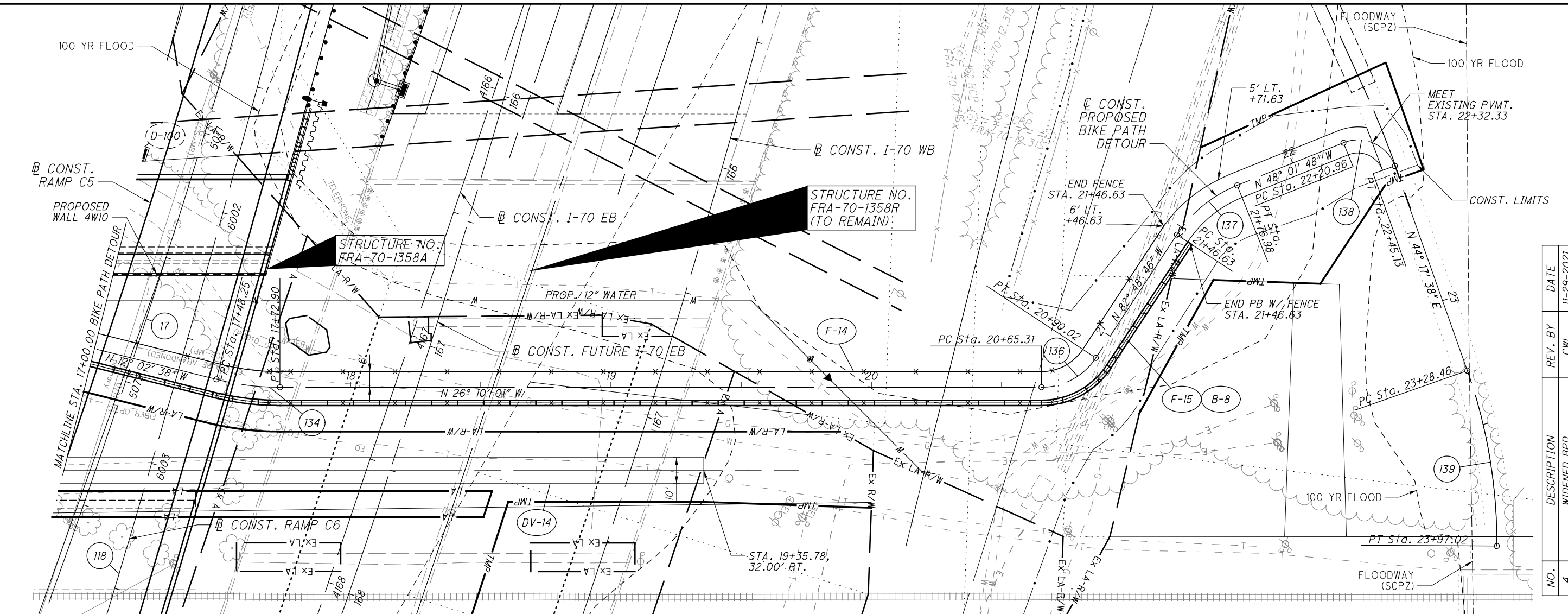
CALCULATED CJC CHECKED CWL

# PLAN AND PROFILE BIKE PATH DETOUR STA. 17+00.00 TO STA. 22+57.27

FRA-70/71-12.68/14.86

638A  
1815

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |



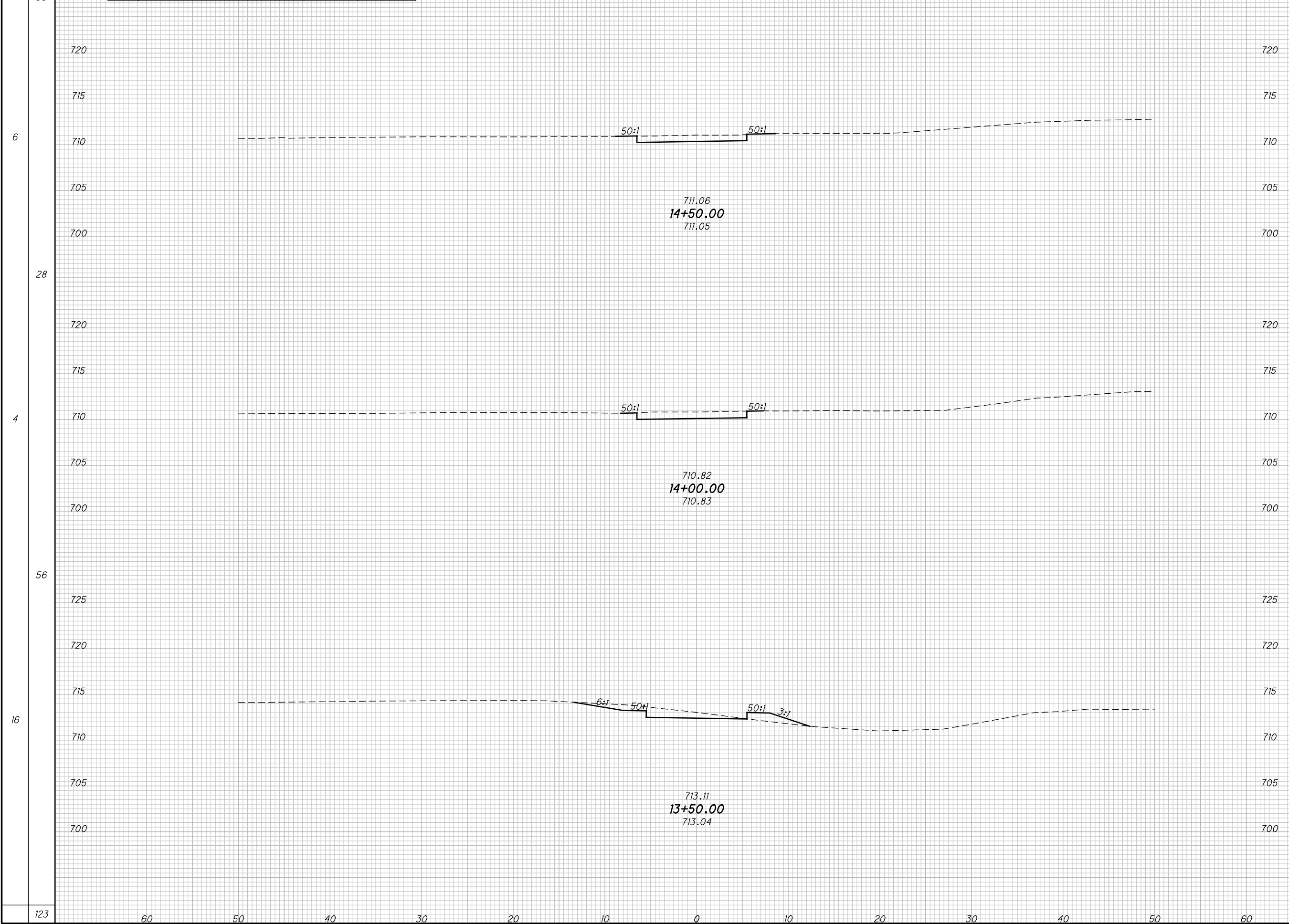
FOR ESTIMATED QUANTITIES, SEE SHEETS 230-255  
 FOR TRAFFIC CONTROL PLAN, SEE SHEET 1049  
 FOR DRIVE DETAILS, SEE SHEETS 583-590

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SEEDING  
END SO.  
WIDTH YDS.

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
ATR  
CHECKED  
CWL



| END AREA | VOLUME | CALCULATED | CHECKED |
|----------|--------|------------|---------|
| CUT      | FILL   | CUT        | FILL    |
| 8        | 0      | 17         | 1       |
| 9        | 0      | 16         | 0       |
| 10       | 4      | 18         | 4       |
|          |        | 51         | 5       |

**CROSS SECTIONS BIKE PATH DETOUR  
STA. 13+50.00 TO STA. 14+50.00**

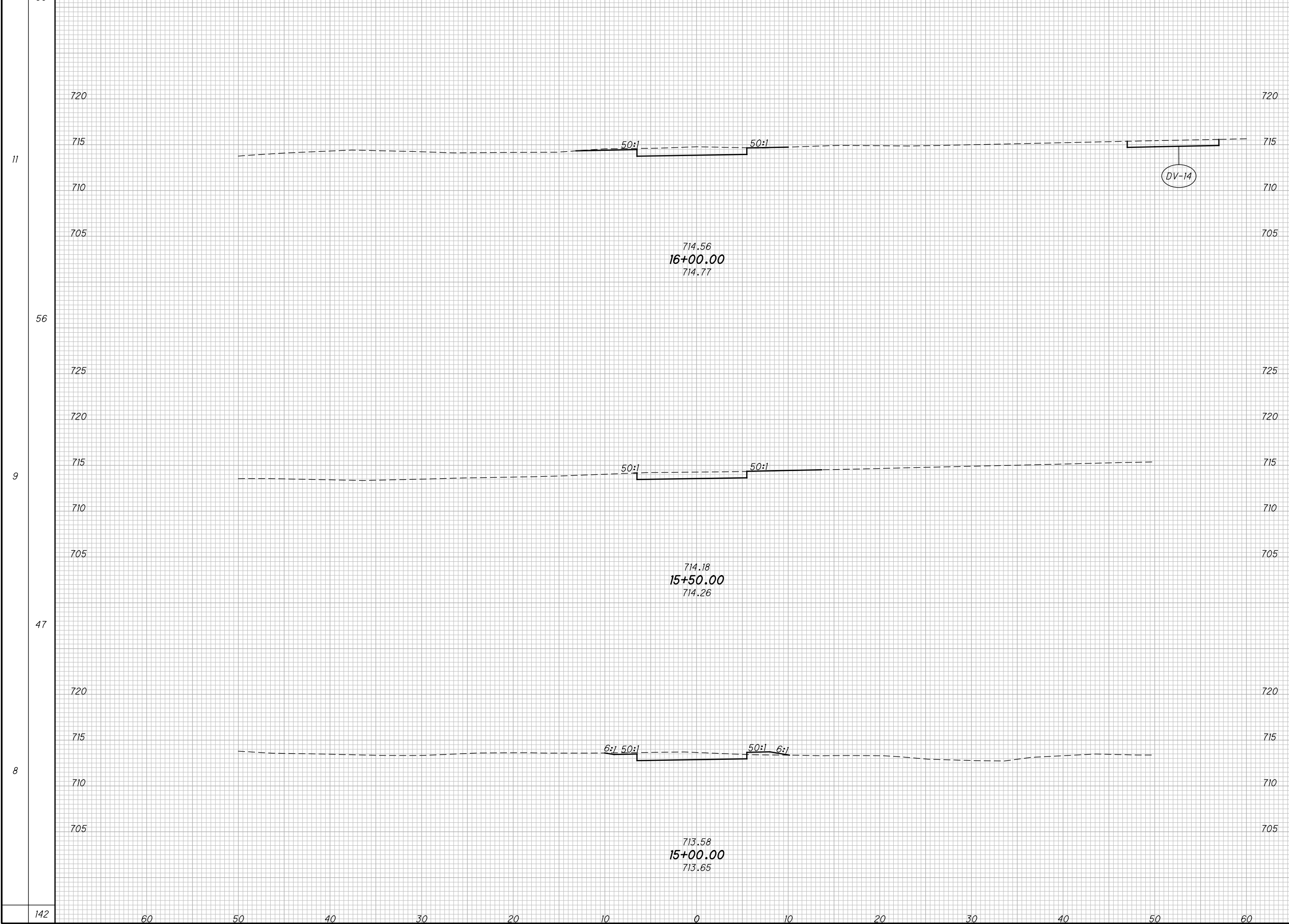
**FRA -70/ 71-12.68 / 14.86**

643G  
1815

SEEDING  
END WIDTH SO. YDS.

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED ATR CHECKED CWL



| END AREA | VOLUME |
|----------|--------|
| CUT      | FILL   |
| 11       | 1      |
| 19       | 2      |
| 9        | 1      |
| 18       | 2      |
| 10       | 1      |
| 56       | 6      |

**CROSS SECTIONS BIKE PATH DETOUR  
STA. 15+00.00 TO STA. 16+00.00**

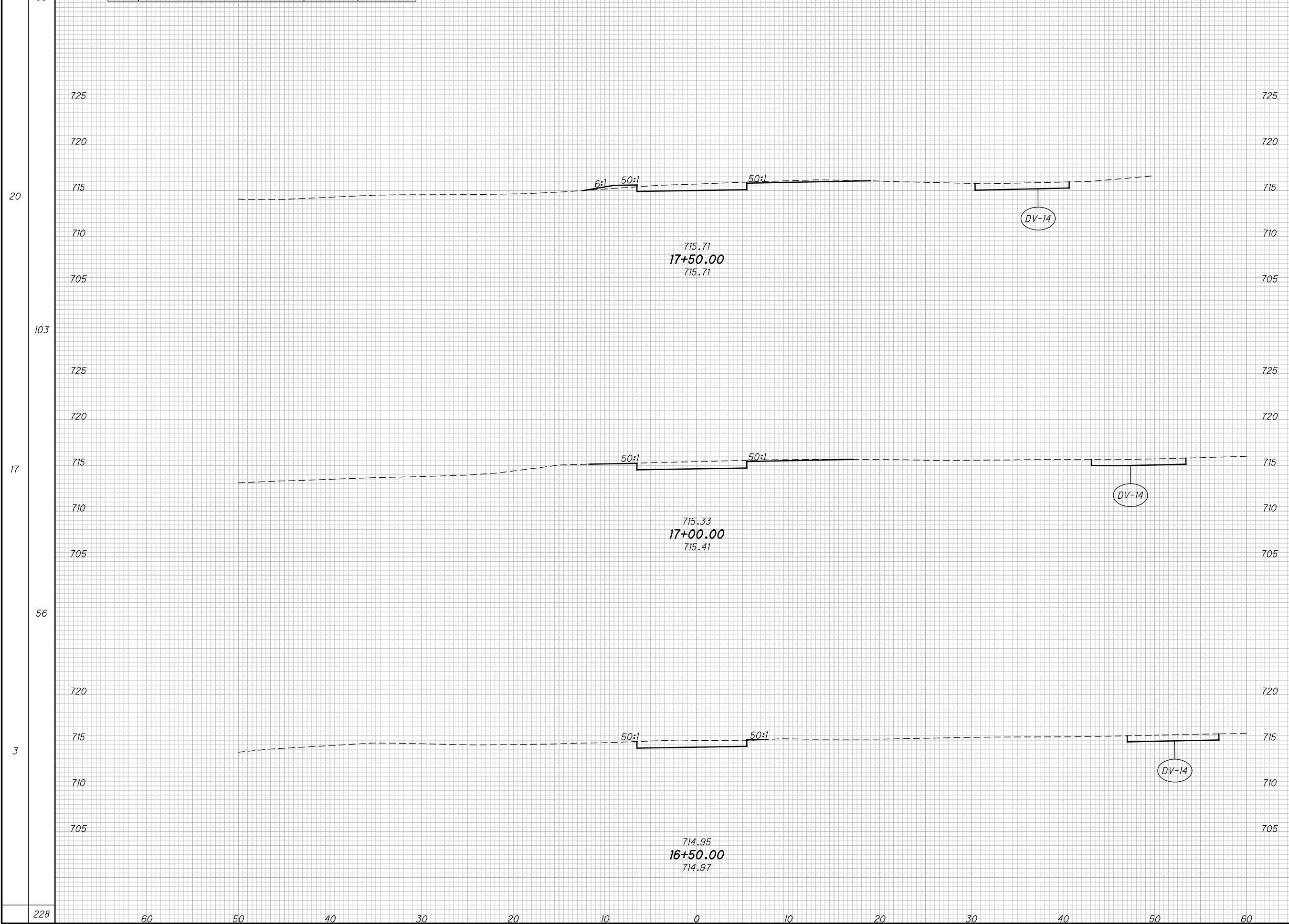
**FRA -70/ 71-12.68 / 14.86**

643H  
1815

SEEDING  
END WIDTH SO. YDS.

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED ATR CHECKED CWL



| END AREA | VOLUME | CALCULATED ATR | CHECKED CWL |  |  |
|----------|--------|----------------|-------------|--|--|
| CUT      | FILL   | CUT            | FILL        |  |  |
| 10       | 1      | 16             | 2           |  |  |
| 11       | 0      | 20             | 1           |  |  |
| 9        | 1      | 55             | 4           |  |  |

**CROSS SECTIONS BIKE PATH DETOUR  
STA. 16+50.00 TO STA. 17+50.00**

FRA -70/ 71-12.68 / 14.86

643J  
1815

228 60 50 40 30 20 10 0 10 20 30 40 50 60

SEEDING  
END SO.  
WIDTH YDS.  
69

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

| END AREA |      | VOLUME |      | CALCULATED<br>ATR | CHECKED<br>CWL |
|----------|------|--------|------|-------------------|----------------|
| CUT      | FILL | CUT    | FILL |                   |                |
|          |      | 15     | 1    |                   |                |



| END AREA |      | VOLUME |      | CALCULATED<br>ATR | CHECKED<br>CWL |
|----------|------|--------|------|-------------------|----------------|
| CUT      | FILL | CUT    | FILL |                   |                |
| 9        | 0    |        |      |                   |                |
|          |      | 15     | 1    |                   |                |
| 7        | 1    |        |      |                   |                |
|          |      | 30     | 2    |                   |                |

CROSS SECTIONS BIKE PATH DETOUR  
STA. 18+00.00 TO STA. 18+50.00

FRA -70/ 71-12.68 / 14.86

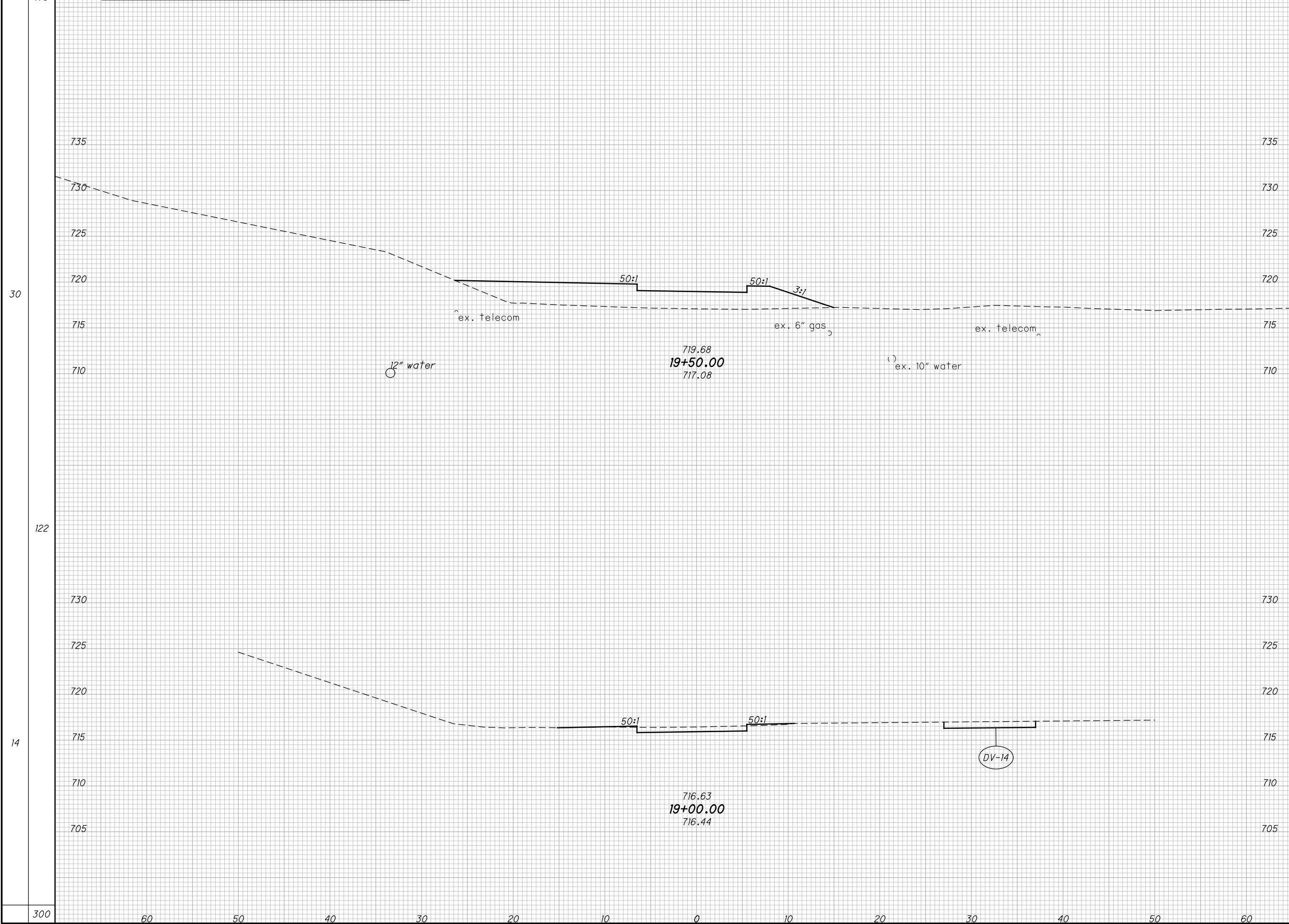
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1815

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SEEDING  
END WIDTH SO. YDS.

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

| END AREA |      | VOLUME |      | CALCULATED ATR | CHECKED CWL |
|----------|------|--------|------|----------------|-------------|
| CUT      | FILL | CUT    | FILL |                |             |
|          |      | 17     | 121  |                |             |



| END AREA |      | VOLUME |      | CALCULATED ATR | CHECKED CWL |
|----------|------|--------|------|----------------|-------------|
| CUT      | FILL | CUT    | FILL |                |             |
| 0        | 79   | 7      | 74   |                |             |
| 7        | 1    |        |      |                |             |
|          |      | 24     | 195  |                |             |

CROSS SECTIONS BIKE PATH DETOUR  
STA. 19+00.00 TO STA. 19+50.00

FRA -70/ 71-12.68 / 14.86

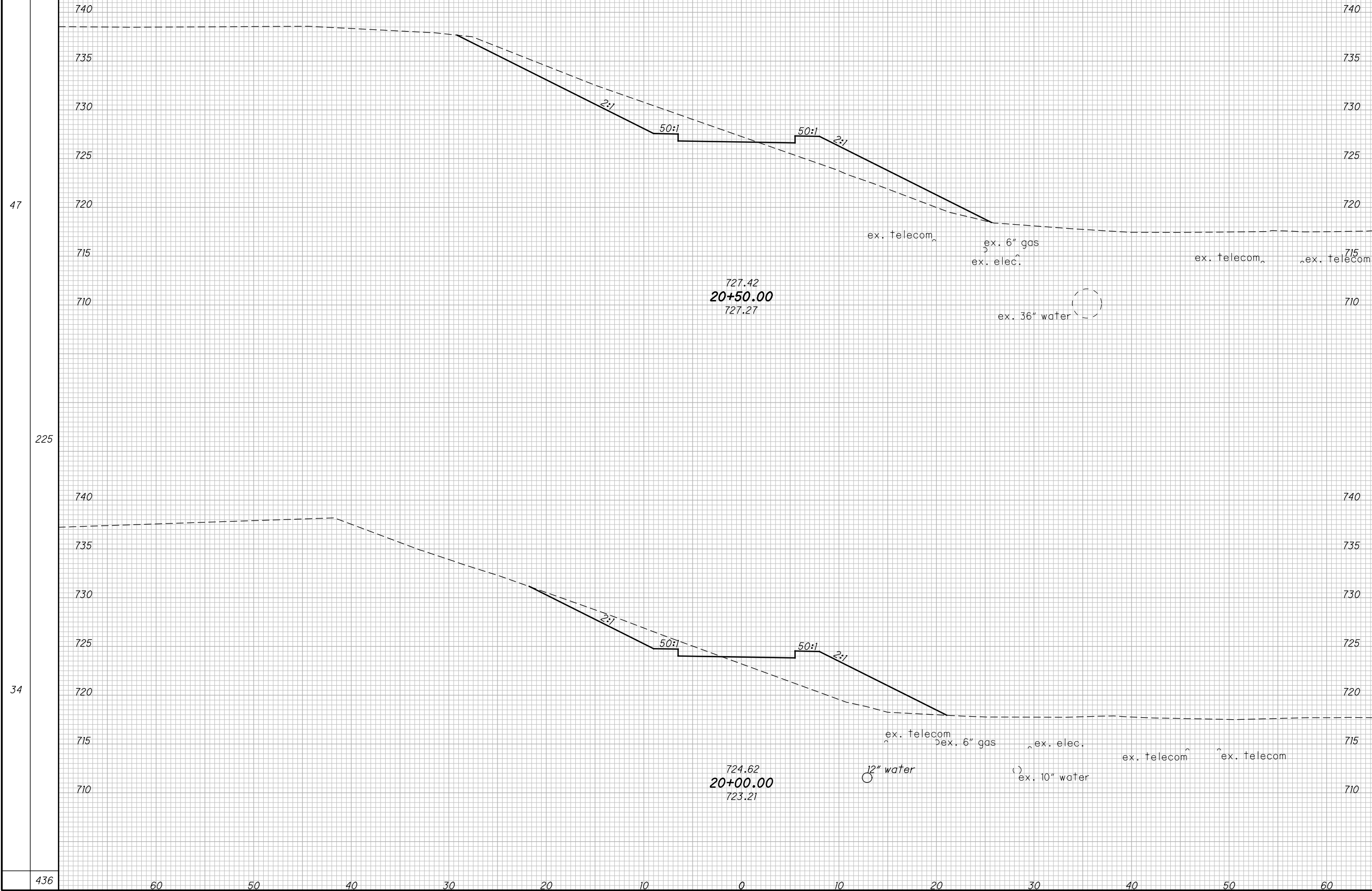
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SEEDING  
END WIDTH SO. YDS.  
211

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

END AREA VOLUME  
CUT FILL CUT FILL  
52 86  
CALCULATED  
ATR  
CHECKED  
CWL



| END AREA | VOLUME |
|----------|--------|
| CUT      | FILL   |
| 48       | 37     |
| 61       | 82     |
| 18       | 52     |
| 113      | 168    |

CROSS SECTIONS BIKE PATH DETOUR  
STA. 20+00.00 TO STA. 20+50.00

FRA - 70 / 71 - 12.68 / 14.86

643M  
1815

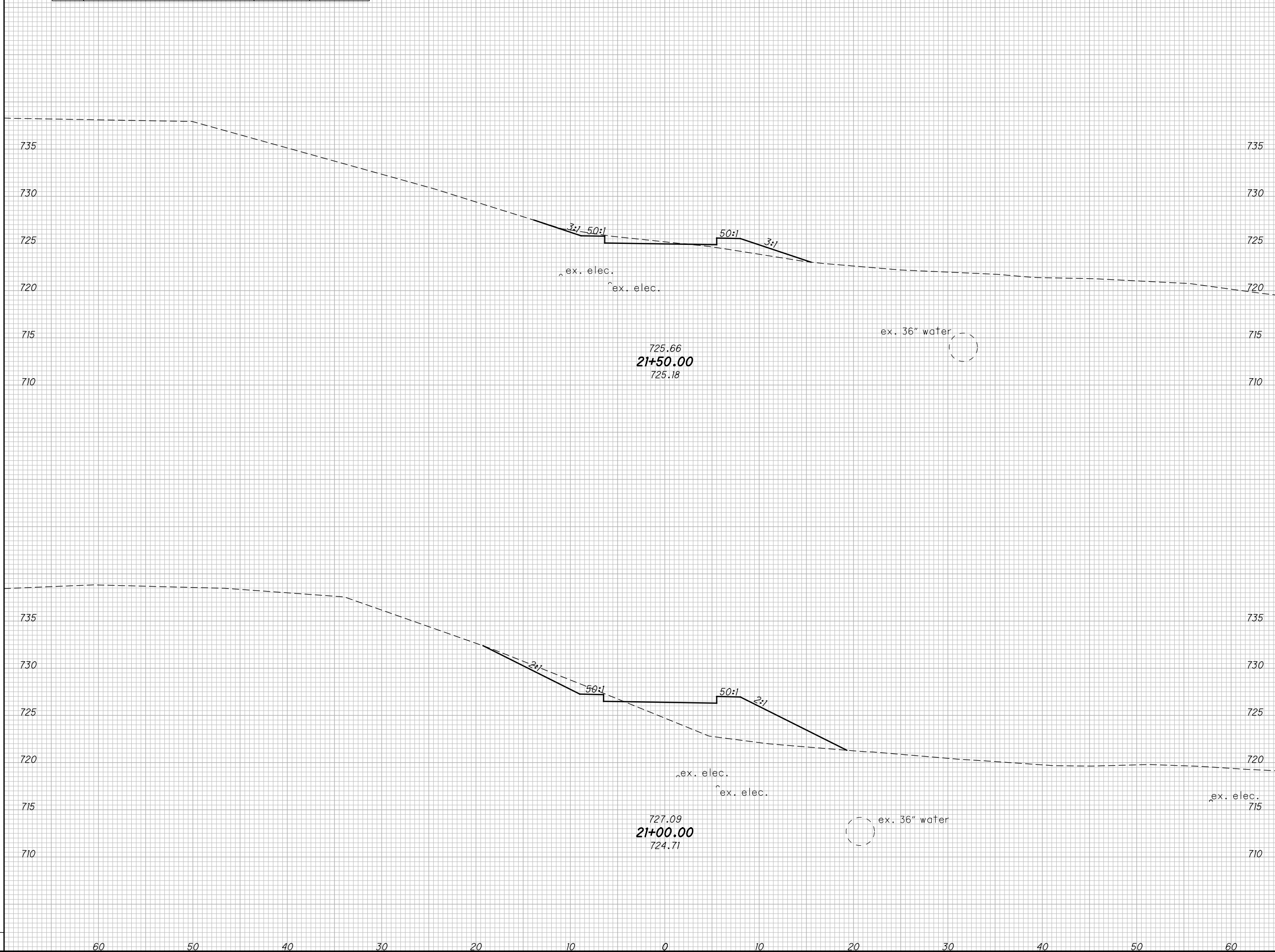


SEEDING  
END WIDTH SO. YDS.

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED ATR CHECKED CWL

131  
18  
131  
29  
262

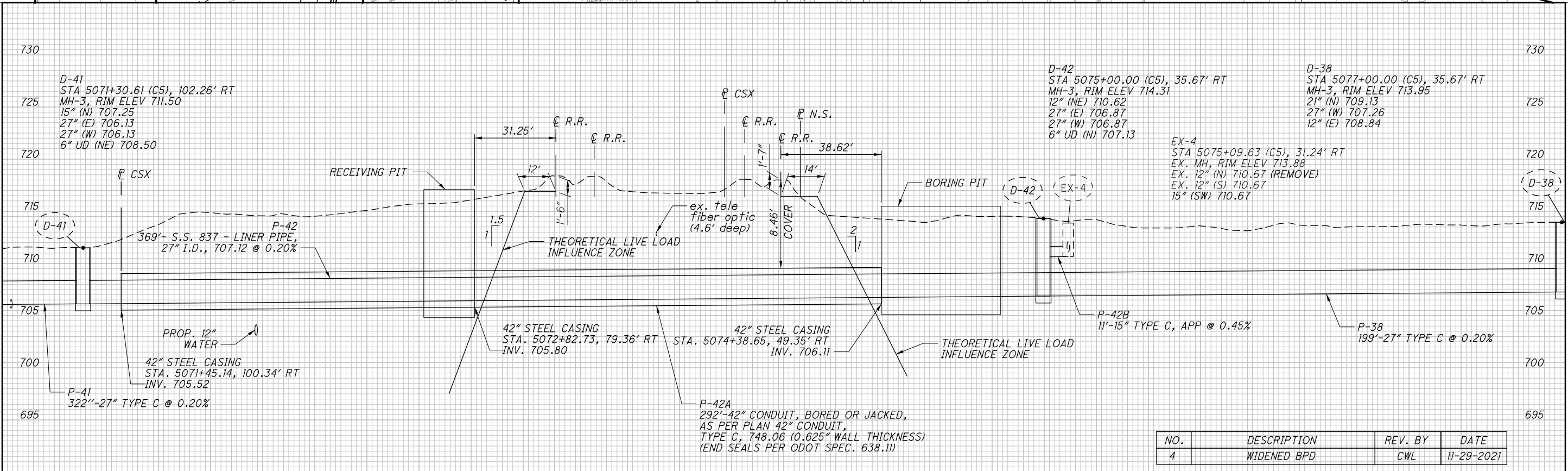
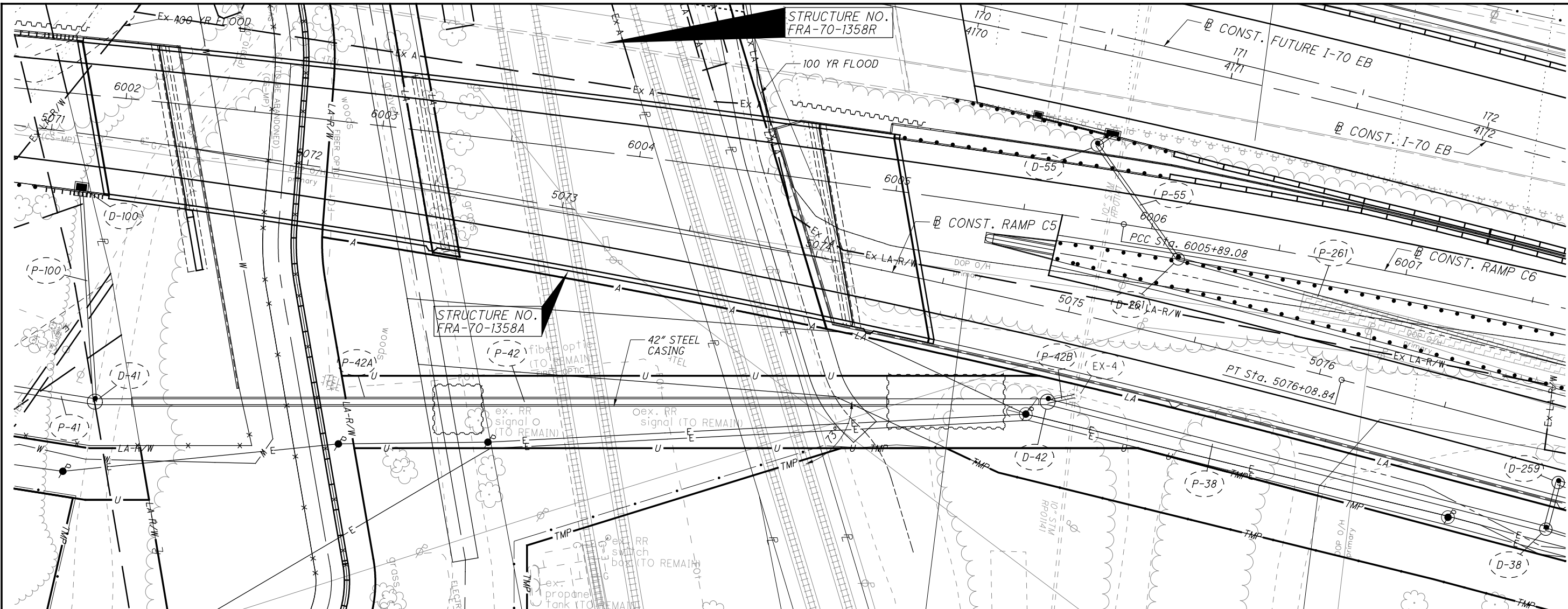


| END AREA | VOLUME | CALCULATED ATR | CHECKED CWL |
|----------|--------|----------------|-------------|
| CUT      | FILL   | CUT            | FILL        |
| 5        | 9      | 34             | 8           |
| 12       | 60     |                |             |
| 8        | 56     |                |             |
| 46       | 68     |                |             |

CROSS SECTIONS BIKE PATH DETOUR  
STA. 21+00.00 TO STA. 21+50.00

FRA -70/ 71-12.68 / 14.86

643N  
1815



| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |

**STORM SEWER PROFILES**  
**P-42 & P-38**

**FRA-70/71-12.68/14.86**

665  
1815

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**ESTIMATED QUANTITIES**

CALCULATED: TJW DATE: 1-30-2019

CHECKED: RFV DATE: 1-30-2019

| ITEM    | EXT.      | TOTAL | PARTICIPATION |           | UNITS | DESCRIPTION                                     | A.P.P. REFERENCE SHT. NO. |
|---------|-----------|-------|---------------|-----------|-------|-------------------------------------------------|---------------------------|
|         |           |       | 01/NHS/PV     | 01/NHS/PV |       |                                                 |                           |
| 202     | 11200     | LS    | LS            | LS        |       | PORTIONS OF STRUCTURE REMOVED                   |                           |
| 503     | 11100     | LS    | LS            | LS        |       | COFFERDAMS AND EXCAVATION BRACING               | 2                         |
| 503     | 21101     | 562   | 247           | 315       | CY    | UNCLASSIFIED EXCAVATION, AS PER PLAN            |                           |
| 504     | 11101     | 7,145 | 3,144         | 4,001     | SF    | STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN   | 2                         |
| 511     | 53012     | 344   | 151           | 193       | CY    | CLASS QC2 CONCRETE, MISC.: FLOODWALL WITH QC/QA | 2                         |
| 512     | 10100     | 386   | 170           | 216       | SY    | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)   |                           |
| SPECIAL | 530E00200 | LS    | LS            | LS        |       | SPECIAL STRUCTURES - EMERGENCY CLOSURE          | 2                         |
| SPECIAL | 690E98400 | LS    | LS            | LS        |       | SPECIAL - EMERGENCY ACTION PLAN COORDINATION    | 2                         |
| SPECIAL | 690E98400 | LS    | LS            | LS        |       | SPECIAL - MONITORING OF EXISTING I-WALL         | 2                         |
| SPECIAL | 690E98400 | LS    | LS            | LS        |       | SPECIAL - WCLPP R/W CONSTRUCTION CAMERA         | 2                         |
| SPECIAL | 690E98400 | LS    | LS            | LS        |       | SPECIAL - USACE SURVEY AND AS-BUILTS            | 2                         |

**ITEM SPECIAL - WCLPP R/W CONSTRUCTION CAMERA**

THIS ITEM INCLUDES ALL COSTS AND EXPENSES INCURRED BY THE CONTRACTOR TO INSTALL CAMERAS THAT COVER ALL CONSTRUCTION OCCURRING WITHIN 50 FEET OF THE WCLPP RIGHT OF WAY (EX FL LINES LABELED IN THE PLANS AS "APPROX. FLOODWALL R/W"). THE CAMERAS SHALL BE LIVE FEEDS AND VIEWABLE REMOTELY BY THE USACE, THE CITY OF COLUMBUS AND ODOT VIA THE INTERNET.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE LUMP SUM PRICE BID WHICH SHALL CONSTITUTE FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THE WORK.

**ITEM SPECIAL - USACE SURVEY AND AS-BUILTS**

CONTRACTOR SHALL RECOVER THE USACE PRIMARY EXISTING CONTROL STATIONS NEAR THE PROJECT LIMITS AND REPORT THE CONDITION OF ALL MONUMENTS WITH CLOSE-UP AND HORIZONTAL PICTURES. CONTRACTOR SHALL LOCATE THESE STATIONS WITH REAL-TIME KINEMATIC POSITIONING FOR FIVE MINUTE OBSERVATIONS. CONTRACTOR SHALL UPDATE THE NEAREST CONTROL POINTS (215/16, 215/17, 215/18, 215/19, 215/20, 86/12-2, 86/13, 86/14, 86/14-1, OR THE NEXT NEAREST IF ONE MORE OF THESE POINTS IS FOUND TO BE DESTROYED, FOR A MINIMUM OF THREE HORIZONTAL AND TWO VERTICAL CONTROL POINTS) TO NAD83/NAVD88 GEOID 18 OR THE CURRENT SURVEY DATUM AND SUBMIT TO ONLINE POSITIONING USER SERVICE SHAREPOINT (OPUS SHARE) AND PROVIDE THE UPDATED COORDINATES TO THE USACE. THE USACE CONTROL MUST BE UTILIZED FOR ALL AS-BUILT CONSTRUCTION DRAWINGS SUBMITTED TO THE CITY OF COLUMBUS AND THE USACE. EXISTING CONTROL SHOWN ON USACE PLAN INSERT SHEETS 694A - 694B.

CONTRACTOR SHALL PROVIDE TEMPORARY, HIGHLY-VISIBLE VISUAL MARKING OF THE WCLPP CENTERLINE OF PROTECTION AND OTHER FEATURES (E.G. GATEWELLS, CONDUIT OUTFALLS, ETC.) IN CONSTRUCTION AREAS AND IN AREAS IMMEDIATELY ADJACENT TO CONSTRUCTION AREAS WITHIN 50 FEET OF THE WCLPP RIGHT OF WAY. THIS SHALL SERVE TO INCREASE AWARENESS OF THE WCLPP TO THE CONSTRUCTION/FIELD PERSONNEL. THE PROPOSED MARKING METHOD SHALL BE SUBMITTED TO ODOT, THE CITY OF COLUMBUS AND THE USACE FOR CONCURRENCE.

CONTRACTOR SHALL SURVEY THE IMPACTED LEVEE/FLOODWALL FEATURES TO ENSURE THE REQUIRED TOP OF PROTECTION ELEVATION HAS BEEN SATISFACTORILY MET. SURVEYS OF LEVEE EMBANKMENT SECTIONS SHALL ALSO INCLUDE CROSS-SECTIONS AT 50 FOOT INTERVALS. THE SURVEY SHALL OCCUR PRIOR TO SUBMITTAL OF "AS-BUILT" CONSTRUCTION DRAWINGS TO ODOT, THE CITY OF COLUMBUS AND THE USACE. DATA FROM THE SURVEY SHALL BE INCLUDED THEREIN.

CONTRACTOR SHALL PROVIDE THE USACE, THE CITY OF COLUMBUS AND ODOT WITH PLANS AND SPECIFICATIONS WITH AMENDMENTS DURING CONSTRUCTION SHOWING ALTERATIONS AS FINALLY CONSTRUCTED (I.E. AS-BUILTS) WITHIN 180 DAYS OF CONSTRUCTION COMPLETION. THESE RECORD DRAWINGS WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE CITY OF COLUMBUS AND THE USACE TO DETERMINE WHETHER A SUFFICIENT AMOUNT OF INFORMATION HAS BEEN PROVIDED FOR THE CITY OF COLUMBUS' CONTINUED OPERATION AND MAINTENANCE OF THE WCLPP.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE LUMP SUM PRICE BID WHICH SHALL CONSTITUTE FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THE WORK.

**EQUIPMENT AND MATERIAL STORAGE WITHIN WCLPP**

CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT WITHIN THE WCLPP RIGHT OF WAY WITHOUT PRIOR WRITTEN CONSENT FROM THE CITY OF COLUMBUS.

| NO. | DESCRIPTION                             | REV. BY | DATE       |
|-----|-----------------------------------------|---------|------------|
| 1   | ADDED USACE NOTES                       | CWL     | 11-5-2021  |
| 4   | FUNDING CODE CHANGE / ADD QC/QA TO ITEM | CWL     | 11-29-2021 |

FOR ADDITIONAL FLOODWALL NOTES, SEE SHEET 5/5

**GENERAL NOTES**

**ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN**

ALL WORK UNDER THIS ITEM SHALL CONFORM TO CMS 503. HOWEVER, THE STABILITY OF THE EXISTING I-WALL STRUCTURE SHALL NOT BE COMPROMISED DURING EXECUTION OF THE WORK. EXCAVATION ALONG THE RIVER SIDE OF THE EXISTING I-WALL SHALL NOT CUT BELOW THE PAVEMENT ELEVATION ON THE ROADWAY SIDE OF THE WALL. THE MAXIMUM CUT SLOPE ORIGINATING AT THE EXISTING I-WALL SHALL NOT EXCEED 3:1 HORIZONTAL TO VERTICAL. ADDITIONALLY, DISTURBANCE TO THE EXISTING EARTHEN LEVEE WHICH ABUTS THE RIVER SIDE SOUTH END OF THE EXISTING I-WALL SHALL BE MINIMIZED AT ALL TIMES. AS SUCH, SUITABLE EXCAVATION BRACING DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH CMS 501.05, PAID SEPARATELY, SHALL BE INSTALLED AT ALL LOCATIONS REQUIRED TO LIMIT EXCAVATION DISTURBANCE NOTED HEREIN.

**ITEM 504 - STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN**

ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE SHEET PILE, AS SHOWN IN THESE PLANS AND AS SPECIFIED, INCLUDING WATERSTOPS, CLAMP BARS, SEALERS, SLURRY BACKFILL, STORM SEWER PIPE SLEEVES, NEOPRENE SEALS AND HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 504 STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN.

**ITEM 511 - QC2 CONCRETE, MISC.: FLOODWALL WITH QC/QA**

ALL WORK UNDER THIS ITEM SHALL CONFORM TO CMS 511, INCLUDING QC/QA. IN ADDITION TO THE REQUIREMENTS OF 511, THIS ITEM SHALL INCLUDE ALL WATERSTOPS EMBEDDED IN THE CONCRETE ABOVE THE STEEL SHEETING, ALL PREFORMED EXPANSION JOINT MATERIALS, JOINT SEALANTS AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

FINAL DETAILS OF THE REINFORCING STEEL FOR THE I-WALL DEPEND ON THE ACTUAL SHEET PILE SECTION TO BE SUPPLIED BY THE CONTRACTOR SINCE PANEL LENGTHS ARE A FUNCTION OF THE SHEETING DIMENSIONS. THEREFORE, THIS ITEM SHALL ALSO INCLUDE THE FULL COST OF PROVIDING FINAL REBAR SCHEDULES AND FURNISHING AND INSTALLING ALL REINFORCING STEEL AND RELATED INCIDENTALS. REINFORCING SIZE, SHAPES AND SPACING REQUIREMENTS ARE INCLUDED IN THE PLANS.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID PER CUBIC YARD WHICH SHALL CONSTITUTE FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THE WORK.

**ITEM SPECIAL - EMERGENCY CLOSURE**

IT IS THE INTENT OF THE PROJECT TO CONSTRUCT THE NEW I-WALL WHILE THE EXISTING I-WALL REMAINS IN PLACE. HOWEVER, AT THE NORTHERLY END OF THE PROPOSED WALL WHERE IT TIES INTO THE EXISTING I-WALL, THE EXISTING WALL MUST BE REMOVED TO INSTALL THE NEW WALL. BETWEEN THE TIME WHEN THE EXISTING I-WALL IS REMOVED AND THE NEW I-WALL IS COMPLETED AND TIED INTO THE EXISTING, THE CONTRACTOR SHALL HAVE ADEQUATE MATERIAL, EQUIPMENT AND MANPOWER AVAILABLE TO CONSTRUCT AN EMERGENCY CLOSURE FOR A LENGTH OF APPROXIMATELY 100 FEET. THE ELEVATION OF THE TOP OF THE EMERGENCY CLOSURE SHALL EQUAL OR EXCEED THE ELEVATION OF THE THE EXISTING AND PROPOSED I-WALLS IMMEDIATELY ADJACENT TO IT. AT THE CONTRACTOR'S OPTION, THE EMERGENCY CLOSURE MAY BE CONSTRUCTED FROM HESCO BARRIERS, DUMPED LOW-PERMEABILITY FILL WITH GEOMEMBRANE OR PLASTIC SHEETING OR OTHER APPROVED METHOD, EXCLUDING SANDBAGS, TO CREATE A TEMPORARY IMPERMEABLE EMERGENCY CLOSURE. TEMPORARY MATERIALS FOR THIS EMERGENCY CLOSURE SHALL BE STORED ON SITE. SIDE SLOPES ON TEMPORARY EMBANKMENT SHALL NOT EXCEED 2:1 HORIZONTAL TO VERTICAL.

THE CONTRACTOR SHALL BE CAPABLE OF CONSTRUCTING THE TEMPORARY CLOSURE WITHIN 4 HOURS NOTIFICATION. THIS WORK SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER. UPON COMPLETION OF THE PROPOSED I-WALL, THE TEMPORARY CLOSURE MATERIAL SHALL BE REMOVED AND THE EMBANKMENT AREA FULLY RESTORED TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE LUMP SUM PRICE BID WHICH SHALL CONSTITUTE FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THE WORK.

**ITEM SPECIAL - EMERGENCY ACTION PLAN COORDINATION**

THIS ITEM INCLUDES ALL COSTS AND EXPENSES INCURRED BY THE CONTRACTOR TO COORDINATE WITH THE ARMY CORPS OF ENGINEERS, CITY OF COLUMBUS AND ODOT AS IT RELATES TO UPDATING THE EMERGENCY ACTION PLAN DURING CONSTRUCTION FOR THE CONTRACTOR'S ACTUAL MEANS AND METHODS FOR CONSTRUCTING THE NEW FLOODWALL AND MAINTAINING THE INTEGRITY OF THE FLOOD PROTECTION SYSTEM INCLUDING I-WALLS AND ADJACENT LEVEES. THIS ITEM IS ALSO TO INCLUDE ALL CONTRACTOR COSTS FOR ATTENDING WEEKLY PROGRESS MEETINGS AND PREPARING STATUS REPORTS RELATED TO THE WORK. CONTRACTOR SHALL SUBMIT A WORK PLAN TO ODOT, CITY OF COLUMBUS AND THE ARMY CORPS OF ENGINEERS OUTLINING THE PROPOSED SEQUENCE OF CONSTRUCTION WITHIN THE EXISTING FLOODWALL RIGHT-OF-WAY.

CONTRACTOR SHALL NOTIFY ODOT, THE CITY OF COLUMBUS INSPECTOR AND THE USACE A MINIMUM OF TWO DAYS PRIOR TO INITIATING CONSTRUCTION IN EACH OF THE FOUR IDENTIFIED IMPACT AREAS (AREA A, AREA B, AREA C, AND AREA D PER THE REVIEW PLAN DATED 14 NOVEMBER 2019 WITHIN THE 408 PERMIT DOCUMENTATION).

PAYMENT FOR THIS WORK SHALL BE MADE AT THE LUMP SUM PRICE BID WHICH SHALL CONSTITUTE FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THE WORK.

**ITEM SPECIAL - MONITORING OF EXISTING I-WALL**

THIS WORK SHALL INCLUDE MONITORING THE EXISTING I-WALL FOR POTENTIAL MOVEMENT DURING CONSTRUCTION. PLACE A TOTAL OF FIVE (5) SURVEY REFERENCE POINTS ALONG THE EXISTING I-WALL WITHIN THE LIMITS OF WALL WHICH WILL EVENTUALLY BE REMOVED. PLACE REFERENCE POINTS AT EACH END ALONG WITH THREE (3) INTERMEDIATE POINTS EQUALLY SPACED. THE CONTRACTOR SHALL OBSERVE EACH POINT ON A WEEKLY BASIS, OR AS DIRECTED BY THE ENGINEER, AND RECORD MEASUREMENTS AND RELATIVE MOVEMENTS. IF MOVEMENT IN EXCESS OF 0.25 INCH IN ANY DIRECTION IS OBSERVED RELATIVE TO THE PRE-CONSTRUCTION OBSERVATIONS, CEASE WORK ADJACENT TO THE WALL AND NOTIFY THE ENGINEER.

ESTABLISH A SET OF SURVEY CONTROL POINTS. THESE SAME POINTS SHALL BE USED THROUGHOUT THE PROJECT AND SHALL BE INDEPENDENT OF ALL STRUCTURES.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE LUMP SUM PRICE BID WHICH SHALL CONSTITUTE FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THE WORK.

**DESIGN AGENCY**  
  
 GPD GROUP  
 1807 Watermark Drive, Suite 210, Columbus, Ohio 43215 614-210-0731  
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**DATE** 9-6-19  
**REVIEWED** DGN  
**STRUCTURE FILE NUMBER** N/A  
**DRAWN** RPR  
**REVISED**  
**DESIGNED** TJW  
**CHECKED** DJC

**FLOODWALL ESTIMATED QUANTITIES & NOTES**  
 RAMP A5 & I-71 NB  
**FRA-70/71-12.68 / 14.86**  
**PID No. 105523**  
 2 / 5  
 694  
 1815

UNLESS NOTED OTHERWISE, THE FOLLOWING NOTES PERTAIN TO RETAINING WALLS 4W1, 4W2, 4W4, 4W5, 4W6, 4W7, 4W8, 4W9, 4W10, 4W11, 4W12, 4W20 AND/OR TEMPORARY RETAINING WALLS T2, T3, T4, T5, T6, T7 AND/OR TEMPORARY SHORING WALLS TS2, TS4, TS5, TS6, WHICH ARE ALL PART OF THIS PROJECT.

FOR SPECIFIC NOTES PERTAINING TO CAST-IN-PLACE REINFORCED CONCRETE WALLS ON SPREAD FOOTINGS, WHICH INCLUDE A PORTION OF 4W1, 4W7, AND 4W9, SEE SHEET 7/14.

FOR SPECIFIC NOTES PERTAINING TO CAST-IN-PLACE REINFORCED CONCRETE WALLS ON DRILLED SHAFTS, WHICH INCLUDE A PORTION OF 4W1, SEE SHEET 8/14.

FOR SPECIFIC NOTES PERTAINING TO TANGENT DRILLED SHAFT WALLS WITH PRECAST PANELS, WHICH INCLUDE A PORTION OF 4W1, 4W2, AND 4W4, SEE SHEETS 8/14 AND 9/14.

FOR SPECIFIC NOTES PERTAINING TO MSE WALLS, WHICH INCLUDE 4W5, 4W6, 4W8, 4W10, 4W11, 4W12, AND 4W20, SEE SHEETS 10/14 THROUGH 12/14.

**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS**

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:  
 840 DATED 1-18-19 (4W8, 4W10, 4W11, 4W12, 4W20, 4W5, 4W6)  
 867 DATED 1-18-19 (T2, T3, T4, T5, T6, T7)

**DESIGN SPECIFICATIONS**

THESE STRUCTURES CONFORM TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 7TH EDITION, 2014 AND THE ODOT BRIDGE DESIGN MANUAL, 2007 EDITION, INCLUDING REVISIONS THROUGH JULY 2014.

**OPERATIONAL IMPORTANCE:**

(4W1 4W2 4W4 4W5 4W6)  
 A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

**DESIGN STRESSES:**

CONCRETE CLASS QC1:  
 COMPRESSIVE STRENGTH - 4.0 KSI (ALL COMPONENTS OF ALL WALLS WITH CLASS QC1 CONCRETE SPECIFIED)

CONCRETE CLASS QC2:  
 COMPRESSIVE STRENGTH - 4.5 KSI (ALL COMPONENTS OF ALL WALLS WITH CLASS QC2 CONCRETE SPECIFIED)

CONCRETE CLASS QC5:  
 COMPRESSIVE STRENGTH - 4.5 KSI (4W1, 4W2, 4W4 DRILLED SHAFTS)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

STRUCTURAL STEEL - ASTM A709 GRADE 50 - YIELD STRENGTH 50 KSI (4W1, 4W2)

**DESIGN LOADING**

LIVE LOAD SURCHARGE OF 0.240 KSF.  
 FUTURE WEARING SURFACE (FWS) OF 0.060 KSF.

HL-93 (4W1, 4W2, 4W4)

**EXISTING STRUCTURE PLANS:**

PLANS MAY BE EXAMINED BY PROSPECTIVE BIDDERS AT THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 6 OFFICES, 400 E. WILLIAM ST., DELEWARE, OHIO 43015 (PHONE 740-833-8000).

**CONSTRUCTION SEQUENCING**

WHERE WALL CONSTRUCTION IS PHASED AND A TEMPORARY RETAINING SYSTEM IS REQUIRED, SHOP DRAWINGS OF BOTH PERMANENT AND TEMPORARY WALLS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE COST OF THESE SUBMITTALS SHALL BE INCLUDED FOR PAYMENT WITH THE COST OF THE TEMPORARY WALLS.

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN**

(4W1) THIS ITEM SHALL INCLUDE REMOVAL OF THE TOP PORTION OF THE EXISTING RETAINING WALL AND FOOTING TOE AS INDICATED IN THE PLANS FROM THE EAST END OF THE NEW PROPOSED WALL TO NEAR THE ANGLE POINT OF THE NEW WALL. IT SHALL ALSO INCLUDE REMOVAL OF THE EXISTING WALL FROM THE TOP OF THE EXISTING WALL TO THE BOTTOM OF THE EXISTING FOOTING FROM THE ANGLE POINT TO THE WEST END OF THE PROPOSED NEW WALL.

(4W2) THIS ITEM SHALL INCLUDE REMOVAL OF THE TOP PORTION OF THE EXISTING RETAINING WALL AND FOOTING TOE AS INDICATED IN THE PLANS FROM THE EAST END OF THE NEW PROPOSED WALL TO NEAR THE ANGLE POINT OF THE NEW WALL. IT SHALL ALSO INCLUDE REMOVAL OF THE EXISTING WALL FROM THE TOP OF THE EXISTING WALL TO THE BOTTOM OF THE EXISTING FOOTING FROM THE ANGLE POINT TO THE WEST END OF THE PROPOSED NEW WALL.

**EXCAVATION, SHEETING AND BRACING**

EXCAVATION ENVELOPES AS DETAILED IN THE PLANS SHALL BE PROTECTED FROM CAVING AND SLOUGHING. WHERE CLEARANCES AND CONSTRUCTION SEQUENCING WILL NOT ALLOW FOR SLOPED EXCAVATIONS, APPROPRIATE SHEETING OR BRACING METHODS SHALL BE EMPLOYED BY THE CONTRACTOR. THIS TEMPORARY SHEETING OR BRACING IS CONSIDERED INCIDENTAL TO ITEM 503 - COFFERDAMS AND EXCAVATION BRACING.

**ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN (WALLS 4W5, 4W6 AND 4W7)**

THE DETAILS SHOWN ON THE PLAN FOR TEMPORARY SUPPORT OF EXCAVATION ARE NOT PART OF THE CONTRACT AND ARE ONLY INCLUDED FOR INFORMATION PURPOSES. STEEL SHEETING AND VIBRATORY DRIVING METHODS ARE NOT PERMITTED TO AVOID DAMAGING THE ADJACENT 60" SANITARY SEWER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING THE SHORING SYSTEM, INCLUDING THE SECTION OVER THE EXISTING 60" SANITARY SEWER, PREPARING WORKING DRAWINGS, AND PERFORMING CALCULATIONS ACCORDING TO CMS 501.05. THE DEPARTMENT WILL PAY FOR TEMPORARY SUPPORT OF EXCAVATION AT THE LUMP SUM PRICE FOR ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN.

**ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN (TS2, TS4, TS5, TS6)**

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH CMS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING. NO ADDITIONAL PAYMENT WILL BE MADE FOR PROVIDING AN ALTERNATE DESIGN.

**ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN (4W1, 4W2, 4W4, FRA-70-1395C)  
 ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK, AS PER PLAN (4W1, 4W2)**

FOR NOTES, SEE SHEET 1746A.

**ITEM 511 - CLASS QC2 CONCRETE MISC.: LOAD DISTRIBUTION SLAB: (4W5, 4W6)**

THIS ITEM SHALL INCLUDE THE CONCRETE CONSTRUCTION AS DETAILED IN THE PLANS INCLUDING THE WORK NECESSARY TO FURNISH & PLACE THE REINFORCING STEEL. A SINGLE LAYER OF #5 BARS SPACED AT 12" (IN BOTH DIRECTIONS) SHALL BE PLACED 3" FROM THE BOTTOM OF THE SLAB. ALL BARS SHALL BE EPOXY COATED. CONCRETE FOR THE PROPOSED WORK SHALL BE CLASS QC2 AS PER CMS 511.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE THE CONCRETE CONSTRUCTION BY THE NUMBER OF CUBIC YARDS.

PAYMENT: ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR ITEM 511 - CLASS QC2 CONCRETE MISC.: LOAD DISTRIBUTION SLAB.

**ITEM 511 - CLASS QC2 CONCRETE, MISC.: PARAPET INCLUDING SLEEPER SLAB, WITH QC/QA (4W5, 4W6, 4W8, 4W12, 4W20)**

ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND PLACE CONCRETE FOR THE PARAPET ATOP THE SLEEPER SLAB ALONG THE MSE WALL SHALL BE INCLUDED WITH ITEM 511 - CLASS QC2 CONCRETE, MISC.: PARAPET INCLUDING SLEEPER SLAB, WITH QC/QA. THIS ITEM SHALL INCLUDE ALL JOINT MATERIALS, DOWEL BARS AND BOND BREAKERS IN CONTACT WITH THE SLEEPER SLAB. ALL REINFORCING STEEL IN THE SLEEPER SLAB AND PARAPET SHALL BE INCLUDED WITH ITEM 509.

ALL LABOR, MATERIALS, INCIDENTALS, ETC. NECESSARY FOR SEALING THE LONGITUDINAL CONSTRUCTION JOINT BETWEEN THE SLEEPER SLABS AND THE PARAPETS WITH HMWM RESIN PER CMS 511.19 IS ALSO INCLUDED IN THIS ITEM. THE SEALING SHALL OCCUR AND BE FULLY CURED BEFORE THE FINAL PAVEMENT IS PLACED OVER THE SLEEPER SLAB.

**ABBREVIATIONS**

|                  |                                  |            |                                        |
|------------------|----------------------------------|------------|----------------------------------------|
| ABUT.            | ABUTMENT                         | MIN.       | MINIMUM                                |
| BRG.             | BEARING                          | ADDIT.     | ADDITIONAL                             |
| BOT.             | BOTTOM                           | FRWD.      | FORWARD                                |
| BTWN.            | BETWEEN                          | SPL.       | SPLICE                                 |
| CONST. JT., C.J. | CONSTRUCTION JOINT               | CLR.       | CLEAR                                  |
| B.S.             | BOTH SIDES                       | P.C.P.P.   | PERFORATED CORRUGATED PLASTIC PIPE     |
| N.S.             | NEAR SIDE                        | N.P.C.P.P. | NON-PERFORATED CORRUGATED PLASTIC PIPE |
| F.S.             | FAR SIDE                         |            |                                        |
| SER.             | SERIES                           |            |                                        |
| TYP.             | TYPICAL                          |            |                                        |
| EQ.              | EQUAL                            |            |                                        |
| DIM.             | DIMENSION                        |            |                                        |
| SPA.             | SPACES                           |            |                                        |
| EA.              | EACH                             |            |                                        |
| P.E.J.F.         | PREFORMED EXPANSION JOINT FILLER |            |                                        |

**ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN (4W8)**

PLACE AND COMPACT GRANULAR EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT.

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DESIGN AGENCY

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DATE

9-6-19

REVIEWED

TJW

DRAWN

MOJ

DESIGNED

DGN

CHECKED

RHC

RETAINING WALL GENERAL NOTES

FRA-70/71-12.68 / 14.86

PID No. 105523

3 / 14

700  
1815

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | ADDED NOTE  | MOJ     | 11-29-2021 |

**ESTIMATED QUANTITIES**

CALCULATED: RHC    DATE: 5/27/19  
 CHECKED: DJC      DATE: 5/31/19

| ITEM    | EXT.     | TOTAL   | PARTICIPATION |           | UNITS | DESCRIPTION                                                            | REFERENCE SHEET NO.<br>--- / 1815 |
|---------|----------|---------|---------------|-----------|-------|------------------------------------------------------------------------|-----------------------------------|
|         |          |         | 01/NHS/PV     | 01/NHS/PV |       |                                                                        |                                   |
| 202     | 11201    | LS      | LS            | LS        |       | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN                             | 700                               |
| 503     | 11100    | LS      | LS            | LS        |       | COFFERDAMS AND EXCAVATION BRACING                                      |                                   |
| 503     | 21100    | 710     | 312           | 398       | CY    | UNCLASSIFIED EXCAVATION                                                |                                   |
| 509     | 10000    | 116,285 | 51,165        | 65,120    | LB    | EPOXY COATED REINFORCING STEEL                                         |                                   |
| 511     | 34451    | 42      | 18            | 24        | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN      | 1746A                             |
| 511     | 46012    | 502     | 221           | 281       | CY    | CLASS QC1 CONCRETE WITH QC/QA RETAINING/WINGWALL NOT INCLUDING FOOTING |                                   |
| 511     | 46513    | 208     | 92            | 116       | CY    | CLASS QC1 CONCRETE WITH QC/QA, FOOTING, AS PER PLAN                    |                                   |
| 511     | 51513    | 179     | 79            | 100       | CY    | CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK, AS PER PLAN                   | 1746A                             |
| 511     | 53010    | 240     | 106           | 134       | CY    | CLASS QC1 CONCRETE, MISC.: SUPPORT BRACKET AND DRILLED SHAFT CAP       | 705                               |
| 511     | 53010    | 16      | 7             | 9         | CY    | CLASS QC1 CONCRETE, MISC.: CAST-IN-PLACE CONCRETE WALL                 | 705                               |
| 512     | 10050    | 287     | 126           | 161       | SY    | SEALING CONCRETE SURFACES (NON-EPOXY)                                  | 1746A                             |
| 512     | 10100    | 1,069   | 470           | 599       | SY    | SEALING CONCRETE SURFACES (EPOXY-URETHANE)                             | 1746A                             |
| 512     | 33000    | 169     | 74            | 95        | SY    | TYPE 2 WATERPROOFING                                                   |                                   |
| 513     | 10220    | 201,414 | 88,622        | 112,792   | LB    | STRUCTURAL STEEL MEMBERS, LEVEL 1                                      |                                   |
| 516     | 13600    | 286     | 126           | 160       | SF    | 1" PREFORMED EXPANSION JOINT FILLER                                    |                                   |
| 518     | 21200    | 306     | 135           | 171       | CY    | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                 |                                   |
| 518     | 39900    | 460     | 202           | 258       | FT    | 4" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS          |                                   |
| 518     | 40000    | 417     | 183           | 234       | FT    | 6" PERFORATED CORRUGATED PLASTIC PIPE                                  |                                   |
| 524     | 95472    | 390     | 172           | 218       | FT    | DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK WITH QC/QA, AS PER PLAN    | 705                               |
| 524     | 95492    | 1,133   | 499           | 634       | FT    | DRILLED SHAFTS, 72" DIAMETER, ABOVE BEDROCK WITH QC/QA, AS PER PLAN    | 705                               |
| 607     | 98000    | 307     | 135           | 172       | FT    | FENCE MISC.: WALL MOUNTED TYPE A (WITH VANDAL MESH)                    | 1746A                             |
| 867     | 00101    | LS      | LS            | LS        |       | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN   | 707                               |
| SPECIAL | 20302000 | 1,015   | 447           | 568       | CY    | ENGINEERED FILL: LIGHTWEIGHT CELLULAR CONCRETE FILL, PERVIOUS          | 702                               |
| SPECIAL | 53000600 | 2,066   | 909           | 1,157     | SF    | STRUCTURES: PRECAST FACADE PANELS                                      | 706                               |

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

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**ESTIMATED QUANTITIES**

CALCULATED: RHC DATE: 5/29/19  
CHECKED: DGN DATE: 5/31/19

| ITEM    | EXT.     | TOTAL   | PARTICIPATION |           | UNITS | DESCRIPTION                                                          | REFERENCE SHEET NO.<br>--- / 1815 |
|---------|----------|---------|---------------|-----------|-------|----------------------------------------------------------------------|-----------------------------------|
|         |          |         | 01/NHS/PV     | 01/NHS/PV |       |                                                                      |                                   |
| 202     | 11201    | LS      | LS            | LS        |       | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN                           | 700                               |
| 503     | 11100    | LS      | LS            | LS        |       | COFFERDAMS AND EXCAVATION BRACING                                    |                                   |
| 503     | 21100    | 462     | 203           | 259       | CY    | UNCLASSIFIED EXCAVATION                                              |                                   |
| 509     | 10000    | 69,661  | 30,651        | 39,010    | LB    | EPOXY COATED REINFORCING STEEL                                       |                                   |
| 511     | 34451    | 42      | 18            | 24        | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN    | 1746A                             |
| 511     | 46512    | 80      | 35            | 45        | CY    | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                               |                                   |
| 511     | 51513    | 287     | 126           | 161       | CY    | CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK, AS PER PLAN                 | 1746A                             |
| 511     | 53010    | 17      | 7             | 10        | CY    | CLASS QC1 CONCRETE, MISC.: CAST-IN-PLACE CONCRETE WALL               | 705                               |
| 511     | 53010    | 663     | 292           | 371       | CY    | CLASS QC1 CONCRETE, MISC.: SUPPORT BRACKET AND DRILLED SHAFT CAP     | 705                               |
| 512     | 10050    | 323     | 142           | 181       | SY    | SEALING CONCRETE SURFACES (NON-EPOXY)                                | 1746A                             |
| 512     | 10100    | 1,327   | 584           | 743       | SY    | SEALING CONCRETE SURFACES (EPOXY-URETHANE)                           | 1746A                             |
| 512     | 33000    | 155     | 68            | 87        | SY    | TYPE 2 WATERPROOFING                                                 |                                   |
| 513     | 10280    | 325,363 | 143,160       | 182,203   | LB    | STRUCTURAL STEEL MEMBERS, LEVEL 4                                    |                                   |
| 516     | 13600    | 72      | 32            | 40        | SF    | 1" PREFORMED EXPANSION JOINT FILLER                                  |                                   |
| 518     | 21200    | 152     | 67            | 85        | CY    | POROUS BACKFILL WITH GEOTEXTILE FABRIC                               |                                   |
| 518     | 40000    | 628     | 276           | 352       | FT    | 6" PERFORATED CORRUGATED PLASTIC PIPE                                |                                   |
| 518     | 40010    | 29      | 13            | 16        | FT    | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS        |                                   |
| 524     | 95472    | 79      | 35            | 44        | FT    | DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK WITH QC/QA               | 705                               |
| 524     | 95533    | 2,955   | 1,300         | 1,655     | FT    | DRILLED SHAFTS, 96" DIAMETER, ABOVE BEDROCK WITH QC/QA, AS PER PLAN  | 705                               |
| 607     | 98000    | 309     | 136           | 173       | FT    | FENCE, MISC.: WALL MOUNTED TYPE A (WITH VANDAL MESH)                 | 1746A                             |
| 867     | 00101    | LS      | LS            | LS        |       | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN | 707                               |
| SPECIAL | 20302000 | 415     | 183           | 232       | CY    | ENGINEERED FILL (LIGHTWEIGHT CELLULAR CONCRETE FILL), PERVIOUS       | 702                               |
| SPECIAL | 53000600 | 9,703   | 4,269         | 5,434     | SF    | STRUCTURES: PRECAST FACADE PANELS                                    | 706                               |

| NO. | DESCRIPTION                  | REV. BY | DATE       |
|-----|------------------------------|---------|------------|
| 4   | FUNDING CODE/QUANTITY CHANGE | CWL/RFV | 11-29-2021 |



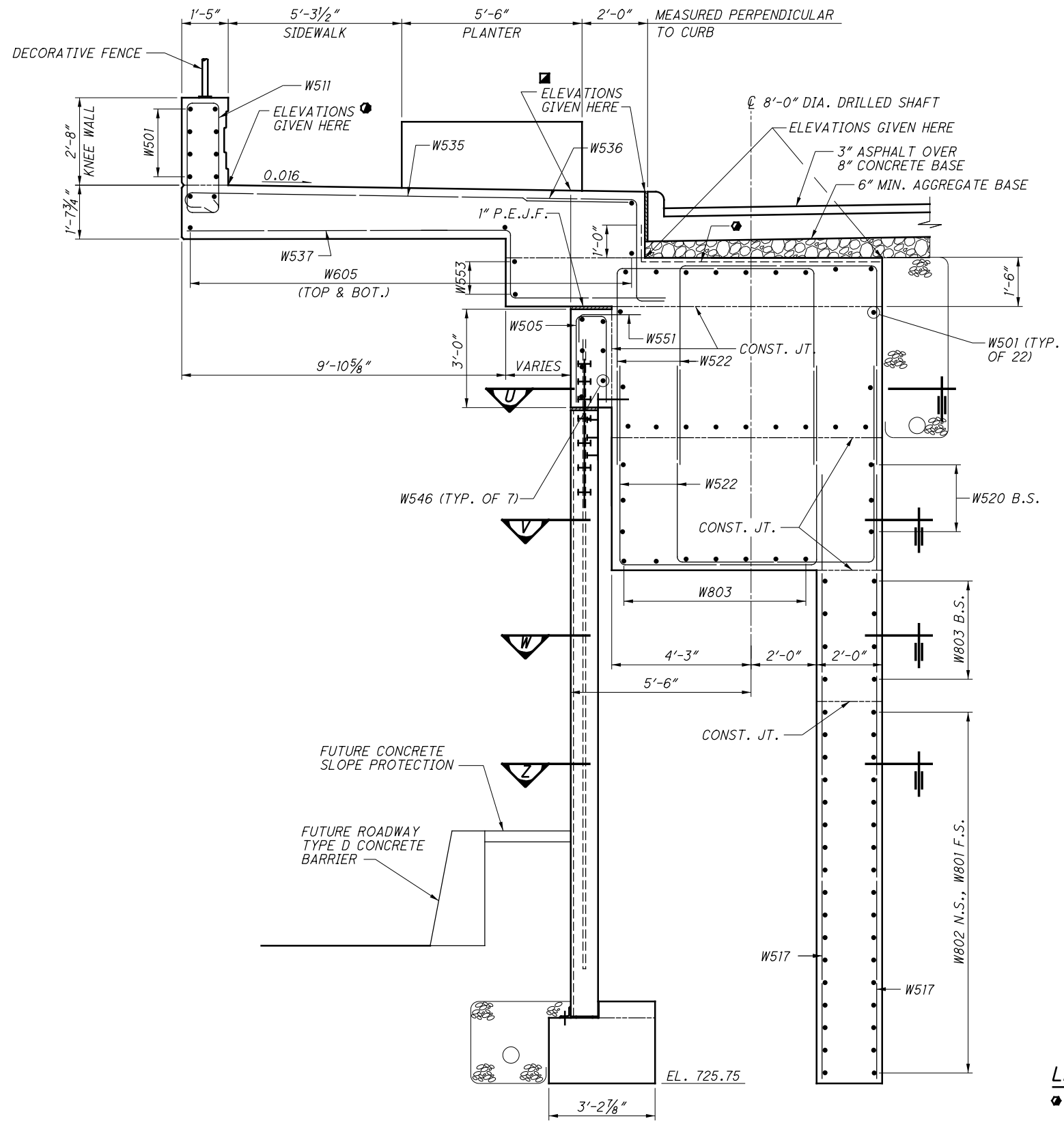
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REVIEWED  
DGN  
STRUCTURE FILE NUMBER  
9-6-19

DRAWN  
RFV  
REVISED  
DESIGNED  
RFV  
CHECKED  
DJC

**ESTIMATED QUANTITIES**  
TANGENT DRILLED SHAFT WALL 4W2  
NORTHSIDE OF I-70 WB FROM FRA-70-1395C TO FRA-70-1405C

FRA-70/71-12.68 / 14.86  
PID No. 105523



SECTION M

**LEGEND:**  
 ● TYPE 2 WATERPROOFING

- NOTES:**
- FOR SECTION Z AND W, SEE SHT. NO. 11/24.
  - FOR SECTION U AND V, SEE SHT. NO. 20/24.
  - FOR DECORATIVE FENCE DETAILS, SEE SHT. NO. 1746D/1815.

| NO. | DESCRIPTION        | REV. BY | DATE       |
|-----|--------------------|---------|------------|
| 4   | DIMENSION REVISION | RFV     | 11-29-2021 |

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DATE 9-6-19  
 REVIEWED DJC  
 DRAWN RFV  
 DESIGNED TJW/DGN  
 CHECKED RHC

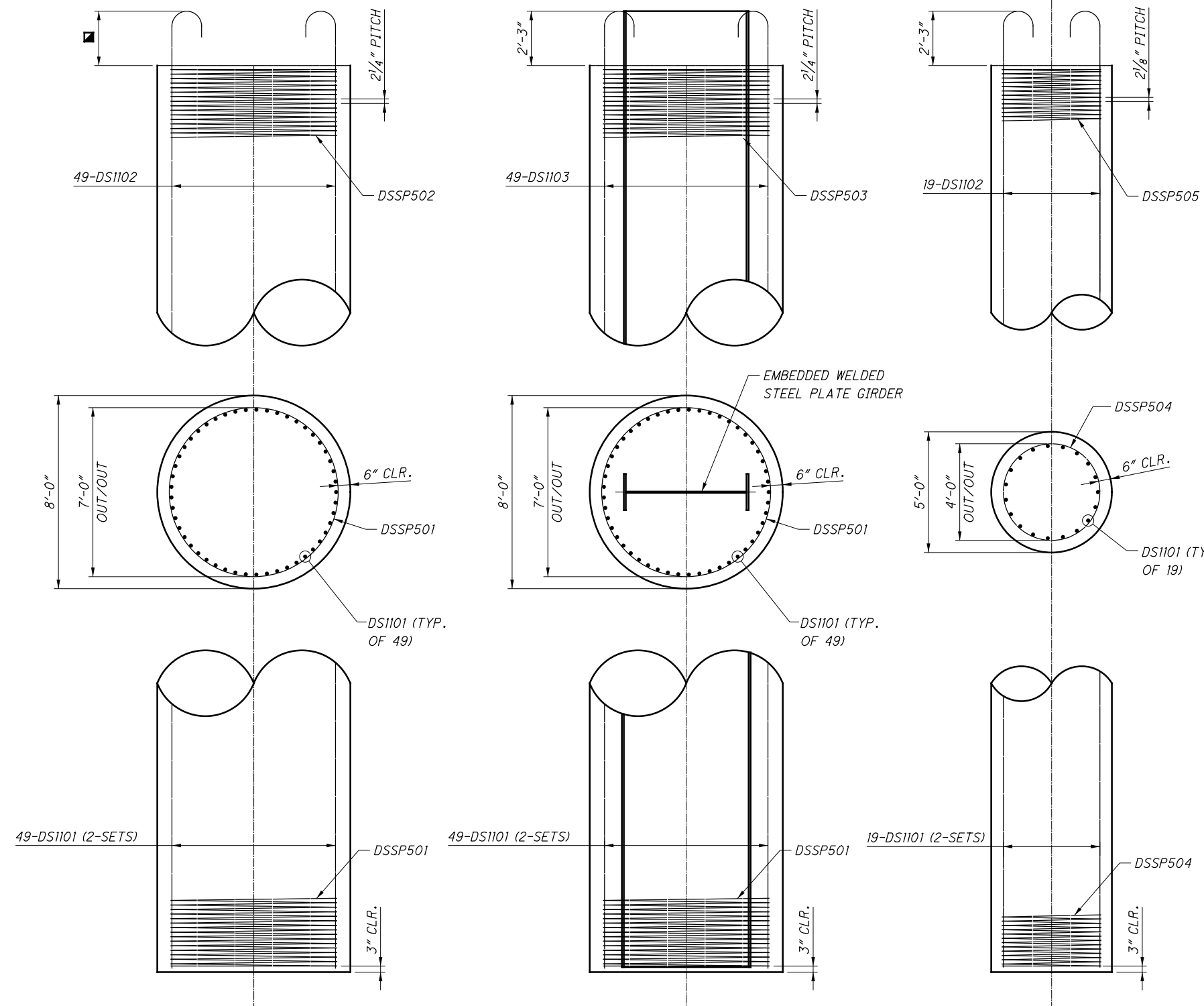
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**WALL/SIDEWALK SECTION DETAILS**  
 TANGENT DRILLED SHAFT WALL 4W2  
 NORTHSIDE OF I-70 WB FROM FRA-70-1395C TO FRA-70-1405C

FRA-70/71-12.68 / 14.86  
 PID No. 105523

19 / 24  
 749  
 1815

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**DRILLED SHAFTS 1 TO 21, 23 & 24**

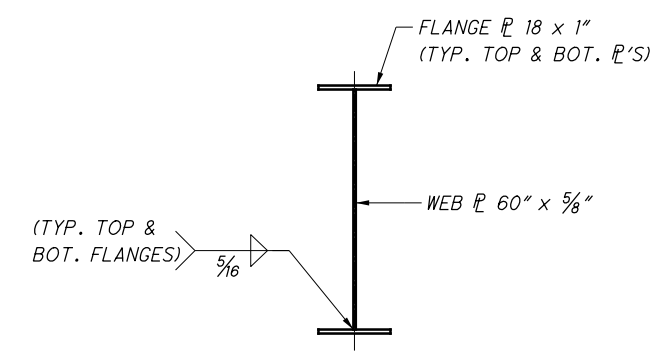
**DRILLED SHAFTS 25 TO 38**

**DRILLED SHAFT 22**

**DRILLED SHAFT REINFORCEMENT DETAILS**

MINIMUM LAP SPLICE LENGTHS FOR THE VERTICAL DRILLED SHAFT REINFORCING BARS IS AS FOLLOWS:

#11 BARS = 6'-8"



**PLATE GIRDER DETAIL**

**EMBEDDED PLATE GIRDER LENGTH TABLE**

| D.S. NO. | TOTAL LENGTH |
|----------|--------------|
| 25       | 90'-2"       |
| 26       | 91'-5 1/8"   |
| 27       | 91'-8 3/8"   |
| 28       | 91'-11 7/8"  |
| 29       | 92'-3 5/8"   |
| 30       | 92'-7 1/4"   |
| 31       | 92'-10 1/2"  |
| 32       | 93'-1 1/2"   |
| 33       | 93'-4 3/8"   |
| 34       | 93'-7 1/4"   |
| 35       | 93'-10 1/8"  |
| 36       | 94'-0 7/8"   |
| 37       | 94'-3 3/4"   |
| 38       | 94'-6 5/8"   |

**LEGEND:**

- 10'-3" FOR DRILLED SHAFTS 1, 2, 4, 7, 10, 13, 16, 19 & 2'-3" FOR ALL OTHER DRILLED SHAFTS

**NOTE:**

1. PAYMENT FOR THE PLATE GIRDER SHALL BE INCLUDED WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 4.
2. THE PLATE GIRDERS SHALL BE COATED WITH A SHOP APPLIED INORGANIC ZINC PRIME COAT CONFORMING TO CMS 514.

| NO. | DESCRIPTION                            | REV. BY | DATE       |
|-----|----------------------------------------|---------|------------|
| 4   | ADDED PLATE GIRDER COATING REQUIREMENT | MOJ     | 11-23-2021 |

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**DRILLED SHAFT DETAILS**  
 TANGENT DRILLED SHAFT WALL 4W2  
 NORTHSIDE OF I-70 WB FROM FRA-70-1395C TO FRA-70-1405C

FRA-70/71-12.68 / 14.86  
 PID No. 105523

23A/24  
 753A  
 1815

| DESIGNED | DGN | CHECKED   | RHC         |
|----------|-----|-----------|-------------|
| REVIEWED | DJC | STRUCTURE | FILE NUMBER |
| DRAWN    | MOJ | REVISED   |             |

DATE 9-6-19  
 9-6-19



**ESTIMATED QUANTITIES**

CALCULATED: RFV    DATE: 8-1-19  
 CHECKED: MOJ    DATE: 8-21-19

| ITEM    | EXT.     | TOTAL  | PARTICIPARION |           | UNITS | DESCRIPTION                                                             | REFERENCE SHEET NO.<br>--- / 1815 |
|---------|----------|--------|---------------|-----------|-------|-------------------------------------------------------------------------|-----------------------------------|
|         |          |        | 01/NHS/PV     | 01/NHS/PV |       |                                                                         |                                   |
| 503     | 21100    | 468    | 206           | 262       | CY    | UNCLASSIFIED EXCAVATION                                                 |                                   |
| 509     | 10000    | 22,652 | 9,967         | 12,685    | LB    | EPOXY COATED REINFORCING STEEL                                          |                                   |
| 511     | 34451    | 32     | 14            | 18        | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN       | 1746A                             |
| 511     | 46012    | 244    | 107           | 137       | CY    | CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING |                                   |
| 511     | 46512    | 51     | 22            | 29        | CY    | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                                  |                                   |
| 512     | 10050    | 154    | 68            | 86        | SY    | SEALING CONCRETE SURFACES (NON-EPOXY)                                   | 1746A                             |
| 512     | 10100    | 450    | 198           | 252       | SY    | SEALING CONCRETE SURFACES (EPOXY-URETHANE)                              | 1746A                             |
| 512     | 33000    | 148    | 65            | 83        | SY    | TYPE 2 WATERPROOFING                                                    |                                   |
| 516     | 13600    | 96     | 42            | 54        | SF    | 1" PREFORMED EXPANSION JOINT FILLER                                     |                                   |
| 518     | 21200    | 116    | 51            | 65        | CY    | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                  |                                   |
| 518     | 40000    | 468    | 206           | 262       | FT    | 6" PERFORATED CORRUGATED PLASTIC PIPE                                   |                                   |
| 524     | 95442    | 1,442  | 634           | 808       | FT    | DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK WITH QC/QA, AS PER PLAN     | 705                               |
| 524     | 95472    | 2,277  | 1,002         | 1,275     | FT    | DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK WITH QC/QA, AS PER PLAN     | 705                               |
| SPECIAL | 53000600 | 4,332  | 1,906         | 2,426     | SF    | STRUCTURES: PRECAST FACADE PANELS                                       | 706                               |
| 607     | 98000    | 234    | 103           | 131       | FT    | FENCE, MISC.: WALL MOUNTED TYPE A (W/ VANDAL MESH)                      | 1746A                             |

**ABBREVIATIONS**

|                  |                                  |            |                                        |
|------------------|----------------------------------|------------|----------------------------------------|
| ABUT.            | ABUTMENT                         | MIN.       | MINIMUM                                |
| BRG.             | BEARING                          | ADDIT.     | ADDITIONAL                             |
| BOT.             | BOTTOM                           | FRWD.      | FORWARD                                |
| BTWN.            | BETWEEN                          | SPL.       | SPLICE                                 |
| CONST. JT., C.J. | CONSTRUCTION JOINT               | CLR.       | CLEAR                                  |
| B.S.             | BOTH SIDES                       | P.C.P.P.   | PERFORATED CORRUGATED PLASTIC PIPE     |
| N.S.             | NEAR SIDE                        | N.P.C.P.P. | NON-PERFORATED CORRUGATED PLASTIC PIPE |
| F.S.             | FAR SIDE                         | GALV.      | GALVANIZED                             |
| SER.             | SERIES                           |            |                                        |
| TYP.             | TYPICAL                          |            |                                        |
| EQ.              | EQUAL                            |            |                                        |
| DIM.             | DIMENSION                        |            |                                        |
| SPA.             | SPACES                           |            |                                        |
| EA.              | EACH                             |            |                                        |
| P.E.J.F.         | PREFORMED EXPANSION JOINT FILLER |            |                                        |

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| DESIGNED | RHC    | CHECKED               | DJC |
| DRAWN    | RPR    | REVISED               |     |
| REVIEWED | DGN    | STRUCTURE FILE NUMBER |     |
| DATE     | 9-6-19 |                       |     |

**ESTIMATED QUANTITIES**  
 TANGENT DRILLED SHAFT WALL 4W4  
 SOUTH SIDE OF RAMP C5 FROM FRA-70-1390C TO FRA-70-1395C

**FRA-70/71-12.68 / 14.86**  
**PID No. 105523**

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

**ESTIMATED QUANTITIES**

CALCULATED: DJC    DATE: 7-16-19  
 CHECKED: RFV    DATE: 7-18-19

| ITEM    | EXT.     | TOTAL | PARTICIPATION |  | UNITS | DESCRIPTION                                                           | REFERENCE SHEET<br>--/1815 |
|---------|----------|-------|---------------|--|-------|-----------------------------------------------------------------------|----------------------------|
|         |          |       | 01/NHS/PV     |  |       |                                                                       |                            |
| 203     | 20000    | 12723 | 12723         |  | CY    | EMBANKMENT                                                            |                            |
| 203     | 35000    | 1160  | 1160          |  | CY    | GRANULAR EMBANKMENT                                                   |                            |
| 503     | 11101    | LS    | LS            |  |       | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                        | 7000767                    |
| 509     | 10000    | 55191 | 55191         |  | LB    | EPOXY COATED REINFORCING STEEL                                        |                            |
| 511     | 53012    | 349   | 349           |  | CY    | CLASS QC2 CONCRETE, MISC.: PARAPET INCLUDING SLEEPER SLAB, WITH QC/QA | 700                        |
| 511     | 53012    | 80    | 80            |  | CY    | CLASS QC2 CONCRETE, MISC.: LOAD DISTRIBUTION SLAB, WITH QC/QA         | 700                        |
| 512     | 10100    | 3163  | 3163          |  | SY    | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                         |                            |
| 516     | 13200    | 582   | 582           |  | SF    | 1/2" PREFORMED EXPANSION JOINT FILLER                                 |                            |
| 516     | 13900    | 1961  | 1961          |  | SF    | 2" PREFORMED EXPANSION JOINT FILLER                                   |                            |
| 840     | 20001    | 27054 | 27054         |  | SF    | MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN                       | 707                        |
| 840     | 21000    | 10251 | 10251         |  | CY    | WALL EXCAVATION                                                       |                            |
| 840     | 22000    | 3706  | 3706          |  | SY    | FOUNDATION PREPARATION                                                |                            |
| 840     | 23000    | 11660 | 11660         |  | CY    | SELECT GRANULAR BACKFILL                                              |                            |
| 840     | 25010    | 680   | 680           |  | FT    | 6" DRAINAGE PIPE, PERFORATED                                          |                            |
| 840     | 25020    | 405   | 405           |  | FT    | 6" DRAINAGE PIPE, NON-PERFORATED                                      |                            |
| 840     | 26000    | 915   | 915           |  | FT    | CONCRETE COPING                                                       |                            |
| 840     | 26050    | 23695 | 23695         |  | SF    | AESTHETIC SURFACE TREATMENT                                           | 707071746A                 |
| 840     | 27000    | 5     | 5             |  | DAY   | ON-SITE ASSISTANCE                                                    |                            |
| SPECIAL | 20302000 | 2403  | 2403          |  | CY    | ENGINEERED FILL (EPS GEOFOAM FILL)                                    | 701                        |
| SPECIAL | 20302000 | 23290 | 23290         |  | CY    | ENGINEERED FILL (LIGHTWEIGHT CELLULAR CONCRETE FILL), CLASS II        | 702                        |
| SPECIAL | 20302000 | 2450  | 2450          |  | CY    | ENGINEERED FILL (LIGHTWEIGHT CELLULAR CONCRETE FILL), CLASS III       | 702                        |
| SPECIAL | 20365000 | 5     | 5             |  | EACH  | SETTLEMENT PLATFORM                                                   | 709                        |

■ INCLUDES ALL AREAS UNDER THE ITEM 203 - GRANULAR MATERIAL, TYPE C, AS DEPICTED IN THE CROSS-SECTIONS IN THE PLANS

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DESIGN AGENCY  
**GPD GROUP**  
 DATE: 9-6-19  
 REVIEWED: TJW  
 STRUCTURE FILE NUMBER

DRAWN: RPR  
 REVISIONS: REVISED

DESIGNED: DGN  
 CHECKED: DJC

**ESTIMATED QUANTITIES**  
 MSE WALLS 4W5 & 4W6  
 FROM FRA-70-1373R/FRA-70-1373A TO FRA-70-1390C

FRA-70/71-12.68 / 14.86  
 PID No. 105523  
 1 / 26  
 764 / 1815

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

NOTE: QUANTITIES ARE FOR BOTH WALLS 4W5 AND 4W6.

**ESTIMATED QUANTITIES**

CALCULATED: MOJ    DATE: 9-2-19  
 CHECKED: TJW    DATE: 9-5-19

| ITEM | EXT.  | TOTAL   | PARTICIPATION |           | UNIT | DESCRIPTION                                                             | AS PER PLAN SHEET --/1815 |
|------|-------|---------|---------------|-----------|------|-------------------------------------------------------------------------|---------------------------|
|      |       |         | 01/NHS/PV     | 01/NHS/PV |      |                                                                         |                           |
| 503  | 11101 | LS      | LS            | LS        |      | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                          | 700, 791                  |
| 503  | 21100 | 1,140   | 502           | 638       | CY   | UNCLASSIFIED EXCAVATION                                                 |                           |
| 509  | 10000 | 138,307 | 60,855        | 77,452    | LB   | EPOXY COATED REINFORCING STEEL                                          |                           |
| 511  | 46012 | 1,150   | 506           | 644       | CY   | CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING |                           |
| 511  | 46513 | 562     | 247           | 315       | CY   | CLASS QC1 CONCRETE WITH QC/QA, FOOTING, AS PER PLAN                     |                           |
| 512  | 10100 | 1,048   | 461           | 587       | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                           |                           |
| 516  | 13600 | 292     | 128           | 164       | SF   | 1" PREFORMED EXPANSION JOINT FILLER                                     |                           |
| 516  | 13900 | 61      | 27            | 34        | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                     |                           |

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| NO. | DESCRIPTION                               | REV. BY | DATE       |
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| 4   | FUNDING CODE CHANGE/<br>QUANTITY REVISION | CWL/RFV | 11-29-2021 |

|                                                 |                |              |                 |                         |                                                                                                                                                                                                                        |
|-------------------------------------------------|----------------|--------------|-----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGNED<br>JMH                                 | CHECKED<br>TJW | DRAWN<br>JMH | REVIEWED<br>DGN | DATE<br>9-6-19          | DESIGN AGENCY<br><b>GPD GROUP</b><br>Class, P.E., Schmeer, Burns & DeHaven, Inc.<br>1801 Watermark Drive, Suite 150, Columbus, Ohio 43215 614.210.0731<br>Copyright © Class, P.E., Schmeer, Burns & DeHaven, Inc. 2015 |
|                                                 |                |              |                 | STRUCTURE FILE NUMBER   |                                                                                                                                                                                                                        |
| <b>ESTIMATED QUANTITIES</b>                     |                |              |                 | FRA-70/71-12.68 / 14.86 |                                                                                                                                                                                                                        |
| C.I.P. WALL 4W7                                 |                |              |                 | PID No. 105523          |                                                                                                                                                                                                                        |
| 1-70 MEDIAN BETWEEN FRA-70-1373R & FRA-70-1390C |                |              |                 |                         |                                                                                                                                                                                                                        |
| 1 / 14                                          |                |              |                 | 790<br>1815             |                                                                                                                                                                                                                        |

CALCULATED: DK DATE: 3/12/15  
 CHECKED: RA DATE: 3/12/15

| ESTIMATED QUANTITIES |           |       |               |           |      |                                                                     |                     |
|----------------------|-----------|-------|---------------|-----------|------|---------------------------------------------------------------------|---------------------|
| ITEM                 | EXTENSION | TOTAL | PARTICIPATION |           | UNIT | DESCRIPTION                                                         | REFERENCE SHEET NO. |
|                      |           |       | 01/NHS/PV     | 01/NHS/PV |      |                                                                     |                     |
| 203                  | 35001     | 644   |               | 644       | CY   | GRANULAR EMBANKMENT, AS PER PLAN                                    | 700                 |
| 203                  | 35110     | 3285  |               | 3285      | CY   | GRANULAR MATERIAL, TYPE B                                           |                     |
| 203                  | 98100     | 5582  |               | 5582      | SY   | ROADWAY MISC.: COLUMN SUPPORTED WALLS                               | 703-703B            |
| 509                  | 10000     | 79170 |               | 79170     | LB   | EPOXY COATED REINFORCING STEEL                                      |                     |
| 511                  | 53012     | 352   |               | 352       | CY   | CLASS QC2 CONCRETE MISC.: PARAPET INCLUDING SLEEPER SLAB WITH QC/QA | 700                 |
| 512                  | 10100     | 3680  |               | 3680      | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                       |                     |
| 516                  | 13200     | 58    |               | 58        | SF   | 1/2" PREFORMED EXPANSION JOINT FILLER                               |                     |
| 516                  | 13600     | 268   |               | 268       | SF   | 1" PREFORMED EXPANSION JOINT FILLER                                 |                     |
| 516                  | 13900     | 1753  |               | 1753      | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                 |                     |
| 840                  | 20001     | 34590 |               | 34590     | SF   | MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN                     | 707                 |
| 840                  | 21000     | 3368  |               | 3368      | CY   | WALL EXCAVATION                                                     |                     |
| 840                  | 23000     | 42100 |               | 42100     | CY   | SELECT GRANULAR BACKFILL                                            |                     |
| 840                  | 25010     | 1620  |               | 1620      | FT   | 6" DRAINAGE PIPE, PERFORATED                                        |                     |
| 840                  | 25020     | 77    |               | 77        | FT   | 6" DRAINAGE PIPE, NON-PERFORATED                                    | 812                 |
| 840                  | 26000     | 875   |               | 875       | FT   | CONCRETE COPING                                                     |                     |
| 840                  | 26050     | 34590 |               | 34590     | SF   | AESTHETIC SURFACE TREATMENT                                         | 707                 |
| 840                  | 27000     | 1     |               | 1         | DAY  | ON-SITE ASSISTANCE                                                  |                     |
| SPECIAL              | 20365000  | 7     |               | 7         | EACH | SETTLEMENT PLATFORM                                                 | 709                 |

**ESTIMATED QUANTITIES**

MSE WALL 4W8  
 SOUTH SIDE BETWEEN FRA-70-1358A AND FRA-70-1373A

FRA-70/71-12.68 / 14.86  
 PID No. 105523

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DESIGN AGENCY  
**DYNOTEC, INC.**  
 2931 E. DUBLIN-GRANVILLE RD. COLUMBUS, OH 43231  
 614.880.7320 T • WWW.DYNOTEC.COM

DATE  
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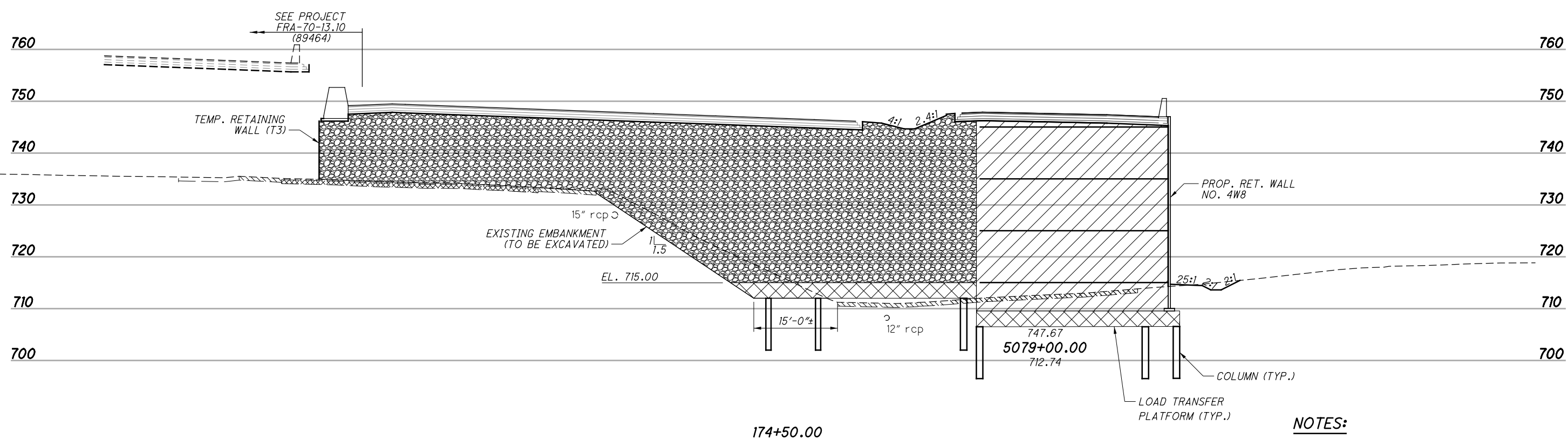
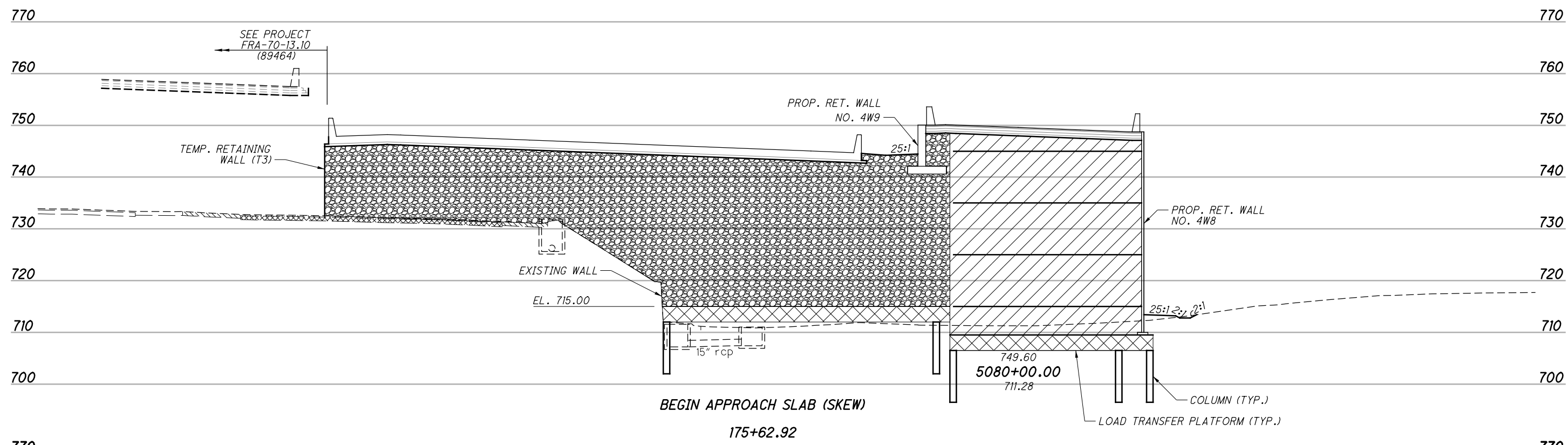
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**LEGEND**

- SELECT GRANULAR BACKFILL
- ITEM 203 GRANULAR EMBANKMENT (TO BE INCLUDED WITH ROADWAY QUANTITIES)
- LOAD TRANSFER PLATFORM

**NOTES:**

1. SIZE AND SPACING OF COLUMNS ARE SHOWN FOR REPRESENTATION ONLY. ACTUAL SIZE AND SPACING TO BE DETERMINED BY CONTRACTOR.
2. A 3'-0" DEEP LOAD TRANSFER PLATFORM WAS ASSUMED FOR ROADWAY EXCAVATION (CUT) QUANTITIES.

| NO. | DESCRIPTION                            | REV. BY | DATE       |
|-----|----------------------------------------|---------|------------|
| 1   | REVISED GROUND IMPROVEMENT ITEM & NOTE | MOJ     | 11-5-2021  |
| 4   | REVISED EXCAVATION/EMBANKMENT DETAILS  | MOJ     | 11-29-2021 |

DESIGN AGENCY  
**GPD GROUP**  
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DATE  
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**CROSS-SECTIONS OF GROUND IMPROVEMENT**

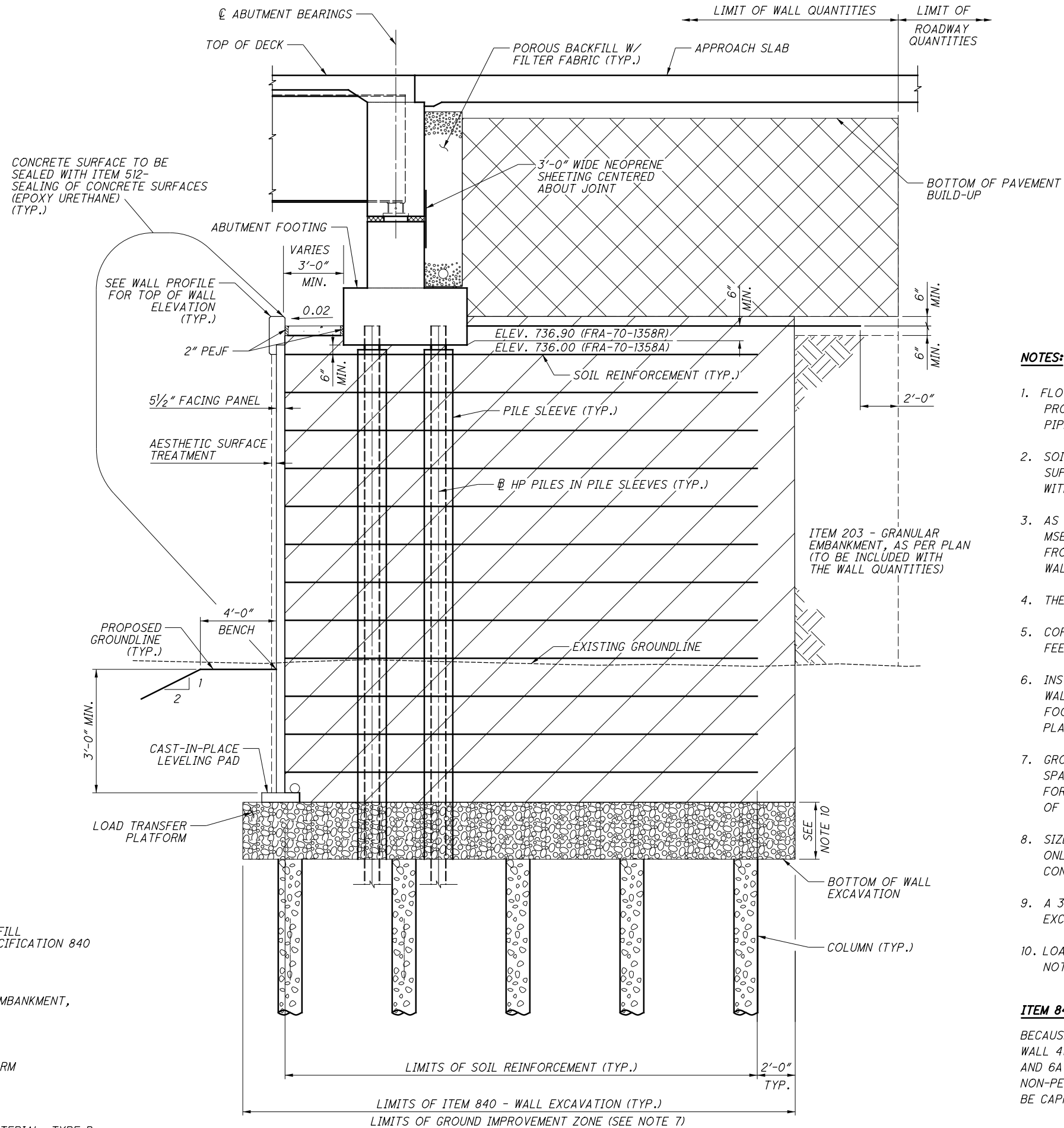
MSE WALL 4W8

FRA-70/71-12.68 / 14.86

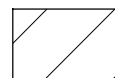



PID No. 105523

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**LEGEND:**

-  SELECT GRANULAR BACKFILL PER SUPPLEMENTAL SPECIFICATION 840
-  ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN
-  LOAD TRANSFER PLATFORM
-  ITEM 203 GRANULAR MATERIAL, TYPE B

**NOTES:**

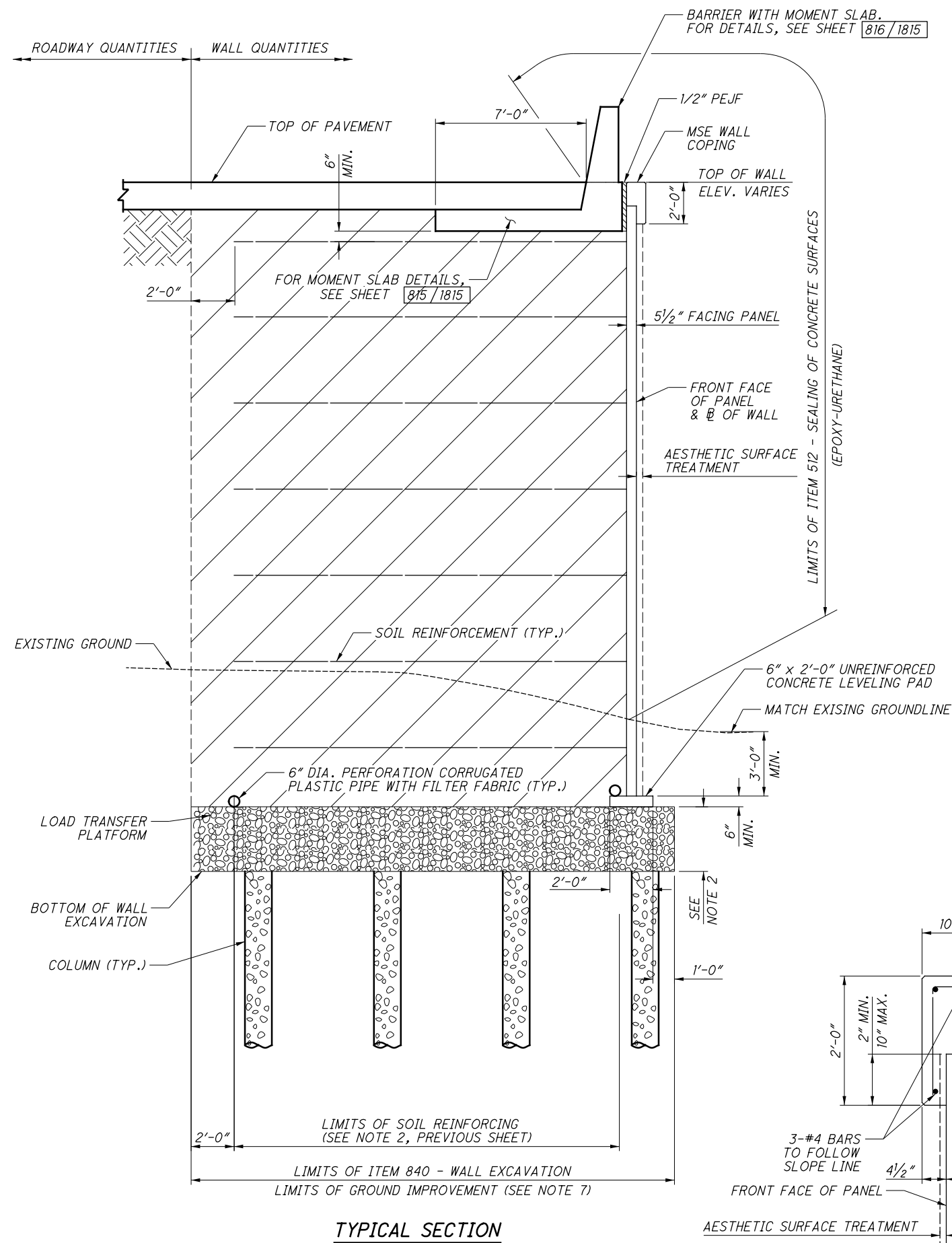
1. FLOW LINE OF 6" DIA. PERFORATED PLASTIC PIPE WILL VARY TO PROVIDE POSITIVE DRAINAGE AT OUTLET. MINIMUM SLOPE OF PIPE SHALL BE 1/8" PER FOOT.
2. SOIL REINFORCEMENT LENGTH TO BE DETERMINED BY WALL SUPPLIER OF THE APPROVED WALL SYSTEM, AND SHALL COMPLY WITH THE REQUIREMENTS LISTED ON SHEET 708 OF 1815.
3. AS SHOWN IN THE PLANS, THE MAXIMUM DESIGN HEIGHT OF THE MSE WALL VARIES FROM 5'-1" TO 43'-4" (ACTUAL HEIGHT VARIES FROM 5'-1" TO 36'-4"), FINAL HEIGHTS TO BE DETERMINED BY WALL SUPPLIER.
4. THE THICKNESS OF MSE WALL PANELS IS ASSUMED AT 5 1/2".
5. COPING EXPANSION JOINTS SHALL BE SPACED NO MORE THAN 20 FEET APART AND ALIGNED WITH JOINTS BETWEEN FACING PANELS.
6. INSTALL PILE SLEEVES DURING THE CONSTRUCTION OF THE MSE WALL. PILE SLEEVES SHALL EXTEND FROM BOTTOM OF ABUTMENT FOOTING TO BOTTOM OF WALL EXCAVATION/LOAD TRANSFER PLATFORM AND SHALL BE INSTALLED AS PER SS 840.06.J.
7. GROUND IMPROVEMENT SHALL BE IN THE FORM OF INTERMITTENTLY SPACED COLUMNS SUPPORTING A LOAD TRANSFER PLATFORM (LTP). FOR ADDITIONAL INFORMATION, SEE NOTES ON SHEET 703-703B OF 1815.
8. SIZE AND SPACING OF COLUMNS ARE SHOWN FOR REPRESENTATION ONLY. ACTUAL SIZE AND SPACING TO BE DETERMINED BY CONTRACTOR.
9. A 3'-0" DEEP LOAD TRANSFER PLATFORM WAS ASSUMED FOR WALL EXCAVATION QUANTITIES.
10. LOAD TRANSFER PLATFORM; DESIGN IN ACCORDANCE WITH GENERAL NOTE: ITEM 203 - ROADWAY, MISC.: COLUMN SUPPORTED WALLS.

**ITEM 840 - 6" DRAINAGE PIPE, NON-PERFORATED**

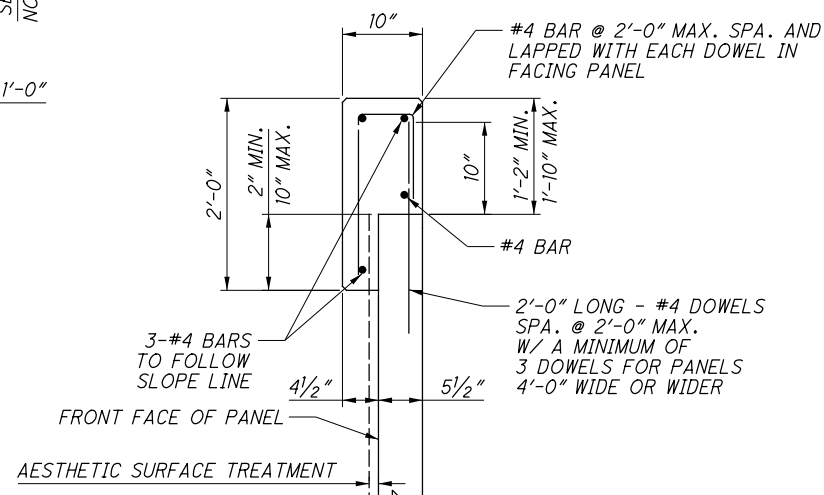
BECAUSE THERE IS NOT A VERY GOOD LOCATION TO CONNECT THE WALL 4W8 DRAINAGE THAT IS TO BE CONSTRUCTED IN PROJECT 4A AND 6A TO EXISTING DRAINAGE INFRASTRUCTURE, 6" DRAINAGE PIPE, NON-PERFORATED SHALL STUB THROUGH THE TEMPORARY WALL AND BE CAPPED FOR FUTURE PROJECT 4A AND 6A DRAINAGE CONNECTION.

**SECTION A-A**  
SEE NOTE 8 FOR LIMITS

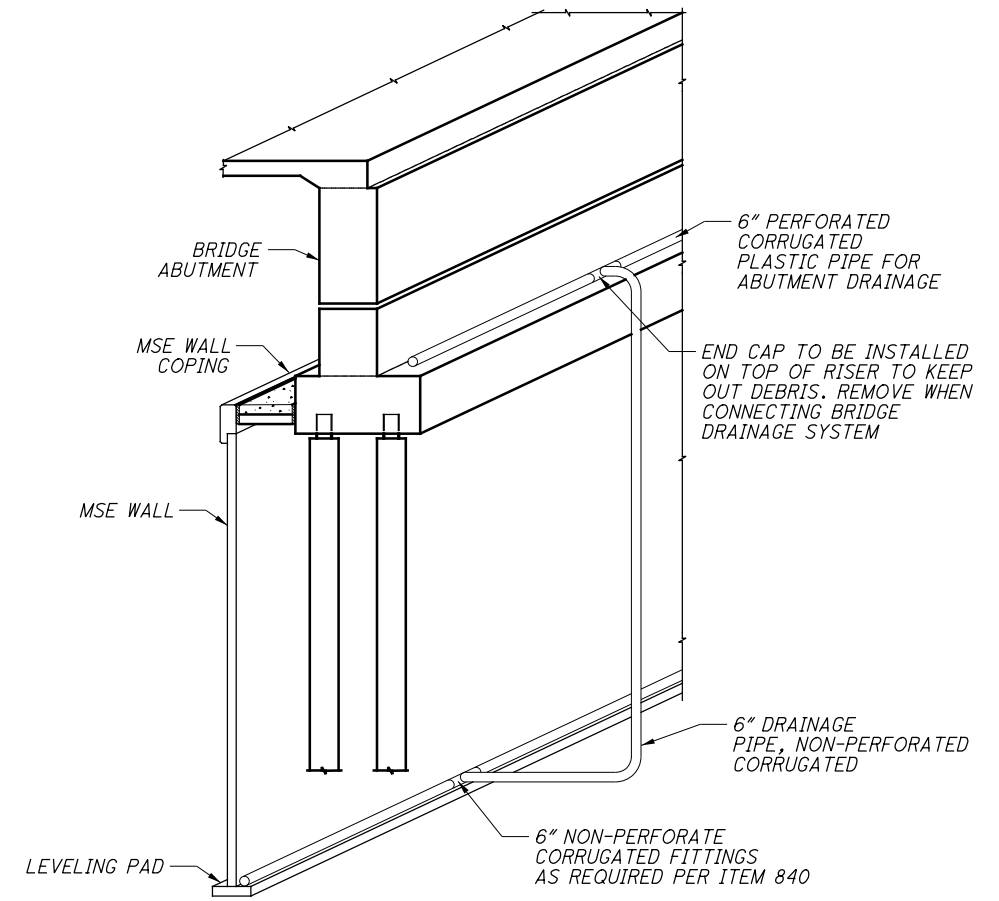
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| DESIGNED<br>RA          | CHECKED<br>OHK | DRAWN<br>DNK   | REVISED | REVIEWED<br>EC        | DATE<br>3/11/2105 | DESIGN AGENCY<br><b>DYNOTEC, INC.</b><br>2331 E. DUBLIN-GRANVILLE RD. COLUMBUS, OH 43231<br>614.880.7320 T • WWW.DNOTECH.COM |
| MISCELLANEOUS DETAILS   |                |                |         | MSE WALL 4W8 SECTIONS |                   | SOUTH SIDE BETWEEN FRA-70-1358A AND FRA-70-1373A                                                                             |
| FRA-70/71-12.68 / 14.86 |                | PID No. 105523 |         | 9 / 15                |                   | 812<br>1815                                                                                                                  |



**TYPICAL SECTION**





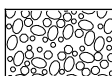
**MSE WALL COPING**



**TYPICAL DRAINAGE RISER DETAIL**

(CONNECTION FROM BRIDGE DRAINAGE SYSTEM TO MSE WALL DRAINAGE)

**LEGEND:**

-  SELECT GRANULAR BACKFILL PER SUPPLEMENTAL SPECIFICATION 840
-  ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN (TO BE INCLUDED WITH ROADWAY QUANTITIES)
-  LOAD TRANSFER PLATFORM

**NOTES:**

1. FOR GROUND IMPROVEMENT AND MSE WALL NOTES, SEE SHEET 812/1815
2. LOAD TRANSFER PLATFORM; DESIGN IN ACCORDANCE WITH GENERAL NOTE: ITEM 203 - ROADWAY, MISC.: COLUMN SUPPORTED WALLS.

|                                                                                                                                               |                                  |                               |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|-------------------------------------|
| <p><b>DESIGN AGENCY</b><br/><b>DYNOTEC, INC.</b><br/>2931 E. DUBLIN-GRANVILLE RD. COLUMBUS, OH 43231<br/>614.880.7320 T • WWW.DYNOTEC.COM</p> | <p><b>DATE</b><br/>3/11/2015</p> | <p><b>REVIEWED</b><br/>EC</p> | <p><b>STRUCTURE FILE NUMBER</b></p> |
| <p><b>DRAWN</b><br/>DNK</p>                                                                                                                   | <p><b>CHECKED</b><br/>OHK</p>    | <p><b>DESIGNED</b><br/>RA</p> | <p><b>REVISED</b></p>               |
| <p><b>MSE WALL SECTION</b><br/>MSE WALL 4W8<br/>SOUTH SIDE BETWEEN FRA-70-1358A AND FRA-70-1373A</p>                                          |                                  |                               |                                     |
| <p>FRA-70/71-12.68 / 14.86<br/>PID No. 105523</p>                                                                                             |                                  |                               |                                     |
| <p>10 / 15</p>                                                                                                                                |                                  |                               |                                     |
| <p>813<br/>1815</p>                                                                                                                           |                                  |                               |                                     |

CALCULATED: DK    DATE: 3/12/15  
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| ESTIMATED QUANTITIES |           |       |               |           |      |                                                                                  |                     |
|----------------------|-----------|-------|---------------|-----------|------|----------------------------------------------------------------------------------|---------------------|
| ITEM                 | EXTENSION | TOTAL | PARTICIPATION |           | UNIT | DESCRIPTION                                                                      | REFERENCE SHEET NO. |
|                      |           |       | 01/NHS/PV     | 01/NHS/PV |      |                                                                                  |                     |
| 509                  | 10000     | 13885 |               | 13885     | LB   | EPOXY COATED REINFORCING STEEL                                                   |                     |
| 511                  | 46213     | 114   |               | 114       | CY   | CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL INCLUDING FOOTING, AS PER PLAN | 704                 |
| 512                  | 10100     | 87    |               | 87        | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                                    |                     |
| 516                  | 13900     | 190   |               | 190       | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                              |                     |
| 518                  | 21200     | 45    |               | 45        | CF   | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                           |                     |
| 601                  | 20000     | 80    |               | 80        | SY   | CRUSHED AGGREGATE SLOPE PROTECTION                                               |                     |
|                      |           |       |               |           |      |                                                                                  |                     |
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|                      |           |       |               |           |      |                                                                                  |                     |
|                      |           |       |               |           |      |                                                                                  |                     |
|                      |           |       |               |           |      |                                                                                  |                     |



CALCULATED: DK DATE: 3/12/15  
 CHECKED: RA DATE 3/12/15

ESTIMATED QUANTITIES

| ITEM    | EXTENSION | TOTAL | PARTICIPATION |           | UNIT | DESCRIPTION                                   | REFERENCE SHEET NO. |
|---------|-----------|-------|---------------|-----------|------|-----------------------------------------------|---------------------|
|         |           |       | 01/NHS/PV     | 01/NHS/PV |      |                                               |                     |
| 203     | 20000     | 871   |               | 871       | CY   | EMBANKMENT                                    |                     |
| 203     | 35110     | 1015  |               | 1015      | CY   | GRANULAR MATERIAL , TYPE B                    |                     |
| .       | .         | .     |               | .         | .    | .                                             |                     |
| 512     | 10100     | 295   |               | 295       | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |                     |
| 516     | 13200     | 11    |               | 11        | SF   | 1/2" PREFORMED EXPANSION JOINT FILLER         |                     |
| 516     | 13900     | 87    |               | 87        | SF   | 2" PREFORMED EXPANSION JOINT FILLER           |                     |
| 840     | 20000     | 3150  |               | 3150      | SF   | MECHANICALLY STABILIZED EARTH WALL            | 707                 |
| 840     | 21000     | 833   |               | 833       | CY   | WALL EXCAVATION                               |                     |
| 840     | 22000     | 454   |               | 454       | SY   | FOUNDATION PREPARATION                        |                     |
| 840     | 23000     | 3272  |               | 3272      | CY   | SELECT GRANULAR BACKFILL                      |                     |
| 840     | 23050     | 107   |               | 107       | CY   | NATURAL SOIL                                  |                     |
| 840     | 25010     | 284   |               | 284       | FT   | 6" DRAINAGE PIPE, PERFORATED                  |                     |
| 840     | 25020     | 125   |               | 125       | FT   | 6" DRAINAGE PIPE, NON PERFORATED              | 834                 |
| 840     | 26000     | 141   |               | 141       | FT   | CONCRETE COPING                               |                     |
| 840     | 26050     | 3150  |               | 3150      | SF   | AESTHETIC SURFACE TREATMENT                   | 707                 |
| 840     | 27000     | 1     |               | 1         | DAY  | ON-SITE ASSISTANCE                            |                     |
| SPECIAL | 20365000  | 2     |               | 2         | EACH | SETTLEMENT PLATFORM                           | 709                 |

CALCULATED: DK DATE: 3/12/15  
 CHECKED: RA DATE: 3/12/15

| ESTIMATED QUANTITIES |           |       |               |           |      |                                               |                     |
|----------------------|-----------|-------|---------------|-----------|------|-----------------------------------------------|---------------------|
| ITEM                 | EXTENSION | TOTAL | PARTICIPATION |           | UNIT | DESCRIPTION                                   | REFERENCE SHEET NO. |
|                      |           |       | 01/NHS/PV     | 01/NHS/PV |      |                                               |                     |
| 203                  | 20000     | 224   |               | 224       | CY   | EMBANKMENT                                    |                     |
| 203                  | 35110     | 444   |               | 444       | CY   | GRANULAR MATERIAL, TYPE B                     |                     |
| .                    | .         | .     |               | .         | .    | .                                             |                     |
| 512                  | 10100     | 616   |               | 616       | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |                     |
| 516                  | 13200     | 24    |               | 24        | SF   | 1/2" PREFORMED EXPANSION JOINT FILLER         |                     |
| 516                  | 13900     | 172   |               | 172       | SF   | 2" PREFORMED EXPANSION JOINT FILLER           |                     |
| 601                  | 21000     | 28    |               | 28        | SY   | CONCRETE SLOPE PROTECTION                     |                     |
| 840                  | 20000     | 6480  |               | 6480      | SF   | MECHANICALLY STABILIZED EARTH WALL            | 707                 |
| 840                  | 21000     | 365   |               | 365       | CY   | WALL EXCAVATION                               |                     |
| 840                  | 22000     | 730   |               | 730       | SY   | FOUNDATION PREPARATION                        |                     |
| 840                  | 23000     | 4753  |               | 4753      | CY   | SELECT GRANULAR BACKFILL                      |                     |
| 840                  | 23050     | 562   |               | 562       | CY   | NATURAL SOIL                                  |                     |
| 840                  | 25010     | 663   |               | 663       | FT   | 6" DRAINAGE PIPE, PERFORATED                  |                     |
| 840                  | 25020     | 63    |               | 63        | FT   | 6" DRAINAGE PIPE, NON-PERFORATED              |                     |
| 840                  | 26000     | 352   |               | 352       | FT   | CONCRETE COPING                               |                     |
| 840                  | 26050     | 6480  |               | 6480      | SF   | AESTHETIC SURFACE TREATMENT                   | 707                 |
| SPECIAL              | 27000     | 1     |               | 1         | DAY  | ON-SITE ASSISTANCE                            |                     |
| SPECIAL              | 20365000  | 1     |               | 1         | EACH | SETTLEMENT PLATFORM                           | 709                 |

|                                  |                         |                                         |                   |                                                                                                                              |
|----------------------------------|-------------------------|-----------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------|
| DESIGNED<br>RA<br>CHECKED<br>OHK | DRAWN<br>DNK<br>REVISED | REVIEWED<br>EC<br>STRUCTURE FILE NUMBER | DATE<br>3/11/2015 | DESIGN AGENCY<br><b>DYNOTEC, INC.</b><br>2931 E. DUBLIN-GRANVILLE RD. COLUMBUS, OH 43231<br>614.880.7320 T • WWW.DYNOTEC.COM |
|                                  |                         |                                         |                   |                                                                                                                              |
| FRA-70/71-12.68 / 14.86          | PID No. 105523          |                                         |                   |                                                                                                                              |
| 1 / 10                           | 835<br>1815             |                                         |                   |                                                                                                                              |

CALCULATE: DK DATE: 3/12/15  
 CHECKED: RA DATE: 3/12/15

| ESTIMATED QUANTITIES |           |       |               |           |      |                                                                     |                     |
|----------------------|-----------|-------|---------------|-----------|------|---------------------------------------------------------------------|---------------------|
| ITEM                 | EXTENSION | TOTAL | PARTICIPATION |           | UNIT | DESCRIPTION                                                         | REFERENCE SHEET NO. |
|                      |           |       | 01/NHS/PV     | 01/NHS/PV |      |                                                                     |                     |
| .                    | .         | .     | .             | .         | .    | .                                                                   |                     |
| 509                  | 10000     | 88774 | 88774         |           | LB   | EPOXY COATED REINFORCING STEEL                                      |                     |
| 511                  | 53012     | 305   | 305           |           | CY   | CLASS QC2 CONCRETE MISC.: PARAPET INCLUDING SLEEPER SLAB WITH QC/QA | 700                 |
| 512                  | 10100     | 2751  | 2751          |           | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                       |                     |
| 516                  | 13200     | 63    | 63            |           | SF   | 1/2" PREFORMED EXPANSION JOINT FILLER                               |                     |
| 516                  | 13600     | 254   | 254           |           | SF   | 1" PREFORMED EXPANSION JOINT FILLER                                 |                     |
| 516                  | 13900     | 1648  | 1648          |           | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                 |                     |
| 840                  | 20000     | 23305 | 23305         |           | SF   | MECHANICALLY STABILIZED EARTH WALL                                  | 707                 |
| 840                  | 21000     | 8224  | 8224          |           | CY   | WALL EXCAVATION                                                     |                     |
| 840                  | 22000     | 2473  | 2473          |           | SY   | FOUNDATION PREPARATION                                              |                     |
| 840                  | 23000     | 17963 | 17963         |           | CY   | SELECT GRANULAR BACKFILL                                            |                     |
| 840                  | 23050     | 655   | 655           |           | CY   | NATURAL SOIL                                                        |                     |
| 840                  | 25010     | 1925  | 1925          |           | FT   | 6" DRAINAGE PIPE, PERFORATED                                        |                     |
| 840                  | 25020     | 58    | 58            |           | FT   | 6" DRAINAGE PIPE. NON-PERFORATED                                    |                     |
| 840                  | 26000     | 937   | 937           |           | FT   | CONCRETE COPING                                                     |                     |
| 840                  | 26050     | 23305 | 23305         |           | SF   | AESTHETIC SURFACE TREATMENT                                         | 707                 |
| 840                  | 27000     | 1     | 1             |           | DAY  | ON-SITE ASSISTANCE                                                  |                     |

|                                                      |                         |                       |                   |                                                                                                                              |
|------------------------------------------------------|-------------------------|-----------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------|
| DESIGNED<br>RA<br>CHECKED<br>OHK                     | DRAWN<br>DNK<br>REVISED | REVIEWED<br>EC        | DATE<br>3/11/2015 | DESIGN AGENCY<br><b>DYNOTEC, INC.</b><br>2931 E. DUBLIN-CRANVILLE RD. COLUMBUS, OH 43231<br>614.880.7320 T • WWW.DYNOTEC.COM |
|                                                      |                         | STRUCTURE FILE NUMBER |                   |                                                                                                                              |
| <b>ESTIMATED QUANTITIES</b>                          |                         |                       |                   |                                                                                                                              |
| MSE WALL 4W12<br>SOUTHERN SIDE OF RAMP C5 TO RAMP C3 |                         |                       |                   |                                                                                                                              |
| FRA-70/71-12.68 / 14.86                              |                         | PID No. 105523        |                   |                                                                                                                              |
| 1 / 20                                               |                         | 845<br>1815           |                   |                                                                                                                              |

**ESTIMATED QUANTITIES**

CALCULATED: MOJ      DATE: 2-25-19  
 CHECKED: TJW        DATE: 3-5-19

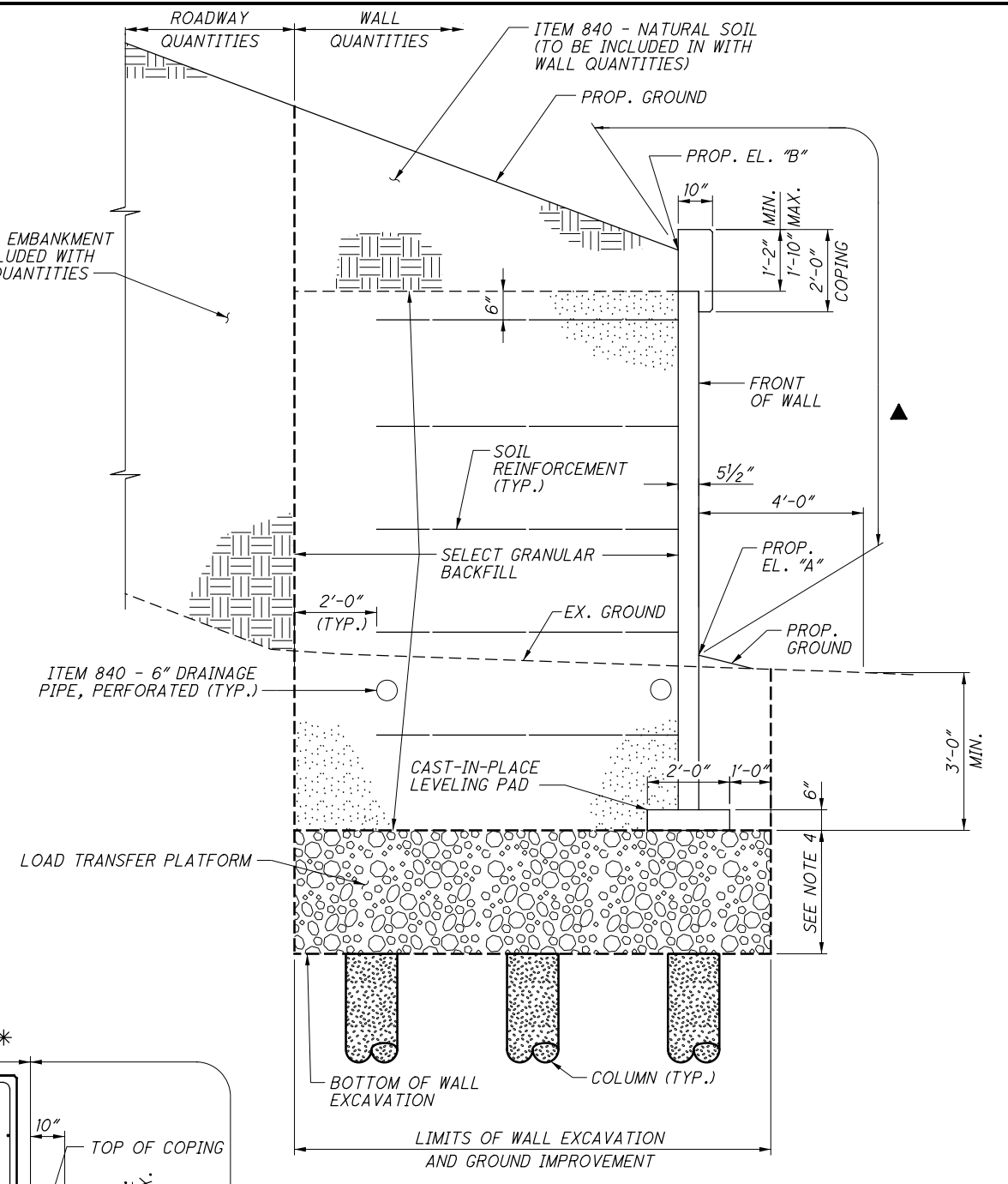
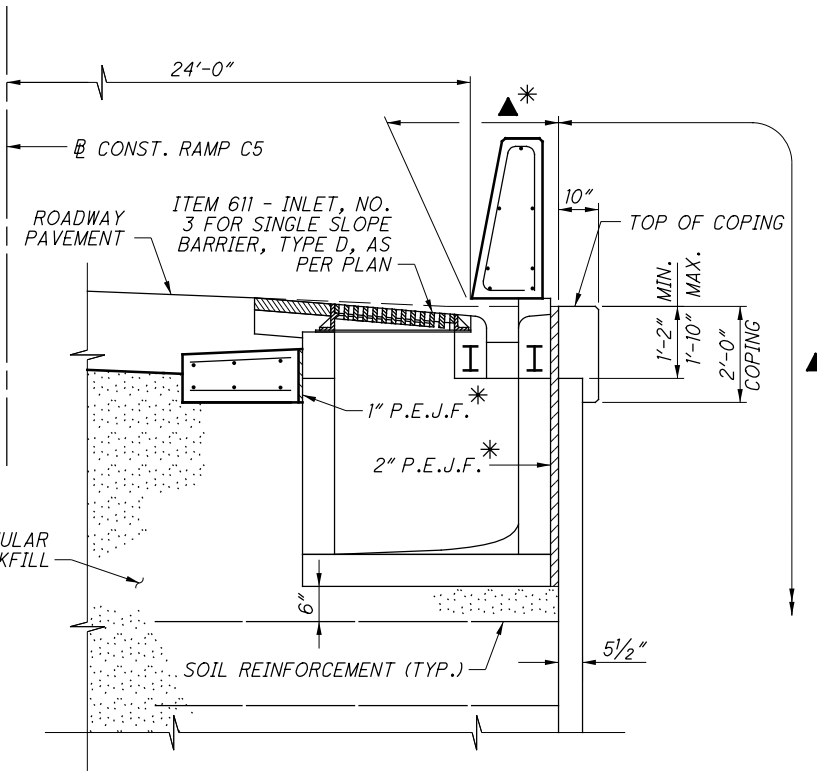
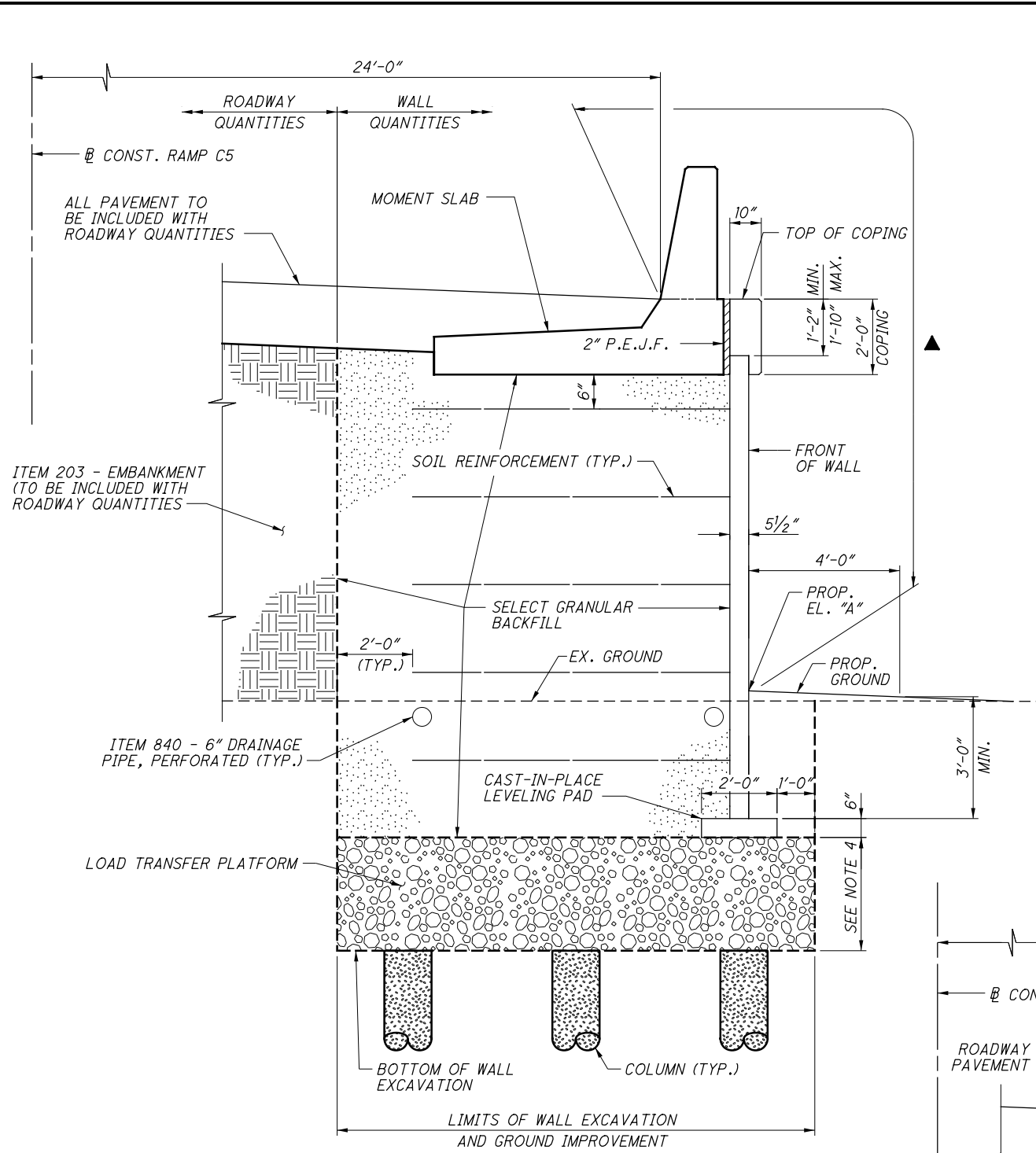
| ITEM | EXT.  | TOTAL<br>01/NHS/PV | UNIT | DESCRIPTION                                                          | AS PER PLAN<br>SHEET __/1815 |
|------|-------|--------------------|------|----------------------------------------------------------------------|------------------------------|
| 203  | 98100 | 504                | SY   | ROADWAY, MISC.: COLUMN SUPPORTED WALLS                               | 703-703B                     |
| 509  | 10000 | 20,943             | LB   | EPOXY COATED REINFORCING STEEL                                       |                              |
| 511  | 53012 | 130                | CY   | CLASS QC2 CONCRETE, MISC.: PARAPET INCLUDING SLEEPER SLAB WITH QC/QA | 700                          |
| 512  | 10100 | 614                | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                        |                              |
| 516  | 13900 | 405                | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                  |                              |
| 840  | 20001 | 4,486              | SF   | MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN                      | 707                          |
| 840  | 21000 | 1,251              | CY   | WALL EXCAVATION                                                      |                              |
| 840  | 23000 | 2,043              | CY   | SELECT GRANULAR BACKFILL                                             |                              |
| 840  | 23050 | 72                 | CY   | NATURAL SOIL                                                         |                              |
| 840  | 25010 | 609                | FT   | 6" DRAINAGE PIPE, PERFORATED                                         |                              |
| 840  | 25020 | 39                 | FT   | 6" DRAINAGE PIPE, NON-PERFORATED                                     |                              |
| 840  | 26000 | 289                | FT   | CONCRETE COPING                                                      |                              |
| 840  | 27000 | 5                  | DAY  | ON-SITE ASSISTANCE                                                   |                              |

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| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 1   | REVISED ITEM        | MOJ     | 11-5-2021  |
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

|                                                                                                                                                                                                                                                                                                                                                                          |                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>ESTIMATED QUANTITIES</b><br>MSE WALL 4W20<br>RAMP C5 ADJACENT TO SUBSTATION                                                                                                                                                                                                                                                                                           | <b>FRA - 70 / 71 - 12.68 / 14.86</b><br><b>PID No. 105523</b> |
| DESIGNED: MOJ<br>CHECKED: TJW                                                                                                                                                                                                                                                                                                                                            | DRAWN: MOJ<br>REVISED:                                        |
| REVIEWED: DGN<br>DATE: 6-9-19                                                                                                                                                                                                                                                                                                                                            | STRUCTURE FILE NUMBER                                         |
| DESIGN AGENCY<br><br><b>GPD GROUP</b><br><small>Class, P.E., Schmeer, Burns &amp; DeHaven, Inc.<br/>                 1801 Watermark Drive, Suite 150, Columbus, Ohio 43215 614.210.0731<br/>                 Copyright © Class, P.E., Schmeer, Burns &amp; DeHaven, Inc. 2015</small> |                                                               |
| 1 / 6                                                                                                                                                                                                                                                                                                                                                                    | 883<br>1815                                                   |

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- LEGEND:**
- ▲ INDICATES LIMITS OF ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
  - \* TO BE INCLUDED WITH ITEM 611 - INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN IN THE ROADWAY QUANTITIES
- NOTES:**
1. FOR LOCATIONS OF SECTIONS A, B, AND C, SEE SHEETS 2/6 AND 3/6.
  2. GROUND IMPROVEMENT SHALL BE IN THE FORM OF INTERMITTENTLY SPACED COLUMNS SUPPORTING A LOAD TRANSFER PLATFORM (LTP). FOR ADDITIONAL INFORMATION, SEE NOTES ON SHEET 703 - 703B OF 1815.
  3. A 3'-0" DEEP LOAD TRANSFER PLATFORM WAS ASSUMED FOR WALL EXCAVATION QUANTITIES.
  4. LOAD TRANSFER PLATFORM DESIGN IN ACORDANCE WITH GENERAL NOTE: ITEM 203 - ROADWAY, MISC.: COLUMN SUPPORTED WALLS

| NO. | DESCRIPTION             | REV. BY | DATE       |
|-----|-------------------------|---------|------------|
| 4   | DIMENSION/NOTE REVISION | RFV     | 11-29-2021 |

**DESIGN AGENCY**  
**GPD GROUP**  
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|          |        |                       |     |
|----------|--------|-----------------------|-----|
| DESIGNED | MOJ    | CHECKED               | DGN |
| DRAWN    | RPR    | REVISED               |     |
| REVIEWED | TJW    | STRUCTURE FILE NUMBER |     |
| DATE     | 6-9-19 |                       |     |

**MSE WALL SECTION**  
 MSE WALL 4W20  
 RAMP C5 ADJACENT TO SUBSTATION

FRA-70/71-12.68/14.86  
 PID No. 105523

4/6  
 886  
 1815

**ESTIMATED QUANTITIES**

CALCULATED: TJW DATE: 9-05-2019

CHECKED: RFV DATE: 9-05-2019

| ITEM    | EXT.      | TOTAL  | PARTICIPATION |           | UNITS | DESCRIPTION                                                         | A.P.P. REFERENCE SHT. NO. |
|---------|-----------|--------|---------------|-----------|-------|---------------------------------------------------------------------|---------------------------|
|         |           |        | 01/NHS/PV     | 01/NHS/PV |       |                                                                     |                           |
| 504     | 11101     | 10,732 | 4,722         | 6,010     | SF    | STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN                       | 1                         |
| 518     | 21200     | 100    | 44            | 56        | CY    | POROUS BACKFILL WITH GEOTEXTILE FABRIC                              |                           |
| 518     | 40000     | 385    | 169           | 216       | FT    | 6" PERFORATED CORRUGATED PLASTIC PIPE                               |                           |
| 601     | 32105     | 3475   | 1529          | 1946      | CY    | ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC, AS PER PLAN | 1                         |
| SPECIAL | 690E98400 | LS     | LS            | LS        |       | SPECIAL - SUBSURFACE UTILITY LOCATING FOR ABANDONED SEWER           | 1                         |

**GENERAL NOTES**

**ITEM 504 - SHEET PILING LEFT IN PLACE, AS PER PLAN**

THIS ITEM INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE PERMANENT SHEET PILE WALL 4W21, INCLUDING SEGMENTS IDENTIFIED AS 'A', 'B' AND 'C' AS SHOWN IN THESE PLANS. IN ADDITION TO THE REQUIREMENTS OF ITEM 504, THIS WORK SHALL INCLUDE CUTTING NECESSARY OPENINGS THROUGH THE SHEETING AS REQUIRED FOR OUTLETTING THE 6" PERFORATED PIPE ASSOCIATED WITH THE POROUS BACKFILL TO BE PLACED BEHIND THE SHEETING WALLS.

SHEET PILE MATERIAL SHALL BE HOT ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 50 KSI, MINIMUM ELASTIC SECTION MODULUS OF 48.5 IN<sup>3</sup>/FT AND A MINIMUM MOMENT OF INTERIA OF 361.2 IN<sup>4</sup>/FT.

ALL WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 504 SHEET PILING LEFT IN PLACE, AS PER PLAN.

**601 - ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC, AS PER PLAN**

THIS WORK SHALL CONSIST OF CONSTRUCTING 2'-6" THICK TYPE B ROCK CHANNEL PROTECTION WITH GEOTEXTILE FABRIC. ROCK SHALL BE PLACED Laterally FROM THE BOTTOM OF EXISTING SLOPE UP TO THE FACE OF WALLS 4W21A, 4W21B AND 4W21C AND LONGITUDINALLY FOR THE LENGTH AS SHOWN IN THE RETAINING WALL PLANS, AS DIRECTED BY THE ENGINEER. ALL WORK SHALL CONFORM TO ITEM 601. GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF ODOT CMS 712.09, TYPE B.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE UNIT PRICE PRICE BID PER CUBIC YARD WHICH SHALL CONSTITUTE FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THE WORK AS DESCRIBED AND DIRECTED.

**SPECIAL - SUBSURFACE UTILITY LOCATING FOR ABANDONED SEWER**

THIS WORK SHALL CONSIST OF USING QUALITY LEVEL 'B' AND LEVEL 'A' SUBSURFACE UTILITY LOCATING TECHNIQUES IN ACCORDANCE WITH ODOT SUBSURFACE UTILITY LOCATING SERVICES SPECIFICATIONS TO PRECISELY LOCATE THE EXISTING ABANDONED 48" COMBINED SEWER IN THE VICINITY OF THE PROPOSED SHEETING WALL SEGMENTS WITHOUT CAUSING UNDUE DISTURBANCE OF THE EXISTING SLOPE. IT IS THE INTENT THAT THIS WORK BE PERFORMED FIRST AT EACH WALL SEGMENT LOCATION PRIOR TO DRIVING SHEETING. THE SEWER SHALL BE AVOIDED AND NOT BE DAMAGED BY THE PILING INSTALLATION OR OTHER RELATED WORK. HOLES EXCAVATED USING LEVEL 'A' METHODS SHALL BE BACKFILLED WITH LOW-STRENGTH MORTAR MATERIAL CONFORMING TO ITEM 613. THE CONTRACTOR SHALL PROVIDE THE HORIZONTAL AND VERTICAL LOCATION OF THE SEWER TO THE ENGINEER AT LEAST 10 DAYS PRIOR TO PERFORMING THE PILING INSTALLATION.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE LUMP SUM PRICE BID WHICH SHALL CONSTITUTE FULL PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS TO COMPLETE THE WORK.

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|----------|--------|-----------------------|-----|
| DESIGNED | TJW    | CHECKED               | RFV |
| DRAWN    | TJW    | REVISED               |     |
| REVIEWED | DGN    | STRUCTURE FILE NUMBER |     |
| DATE     | 9-6-19 |                       |     |

**ESTIMATED QUANTITIES & NOTES**  
 SHEETING WALLS 4W21A, 4W21B, 4W21C  
 ALONG THE EAST SIDE OF RAMP A5

**FRA -70/71-12.68 / 14.86**  
**PID No. 105523**

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 3   | UPDATED NOTE        | CWL     | 11-19-2021 |
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

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| ESTIMATED QUANTITIES        |       |       |               |           |      |                                                                      |                           |
|-----------------------------|-------|-------|---------------|-----------|------|----------------------------------------------------------------------|---------------------------|
| ITEM                        | EXT.  | TOTAL | PARTICIPATION |           | UNIT | DESCRIPTION                                                          | AS PER PLAN SHEET __/1815 |
|                             |       |       | 01/NHS/PV     | 01/NHS/PV |      |                                                                      |                           |
| TEMPORARY SHORING WALL TS2  |       |       |               |           |      |                                                                      |                           |
| 503                         | 11101 | LUMP  | LUMP          | LUMP      |      | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                       | 889A                      |
| TEMPORARY SHORING WALL TS4  |       |       |               |           |      |                                                                      |                           |
| 503                         | 11101 | LUMP  | LUMP          | LUMP      |      | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                       | 890                       |
| TEMPORARY SHORING WALL TS4A |       |       |               |           |      |                                                                      |                           |
| 503                         | 11101 | LUMP  | LUMP          | LUMP      |      | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                       | 890A                      |
| TEMPORARY SHORING WALL TS5  |       |       |               |           |      |                                                                      |                           |
| 503                         | 11101 | LUMP  | LUMP          | LUMP      |      | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                       | 891                       |
| TEMPORARY SHORING WALL TS6  |       |       |               |           |      |                                                                      |                           |
| 503                         | 11101 | LUMP  | LUMP          | LUMP      |      | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                       | 892                       |
| TEMPORARY MSE WALL T2       |       |       |               |           |      |                                                                      |                           |
| 867                         | 100   | LUMP  | LUMP          | LUMP      |      | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL              |                           |
| TEMPORARY MSE WALL T3       |       |       |               |           |      |                                                                      |                           |
| 867                         | 100   | LUMP  | LUMP          | LUMP      |      | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL              |                           |
| TEMPORARY MSE WALL T4       |       |       |               |           |      |                                                                      |                           |
| 867                         | 100   | LUMP  | LUMP          | LUMP      |      | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL              |                           |
| TEMPORARY MSE WALL T5       |       |       |               |           |      |                                                                      |                           |
| 867                         | 100   | LUMP  | LUMP          | LUMP      |      | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL              |                           |
| TEMPORARY MSE WALL T6       |       |       |               |           |      |                                                                      |                           |
| 867                         | 101   | LUMP  | LUMP          | LUMP      |      | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN | 707                       |
| TEMPORARY MSE WALL T7       |       |       |               |           |      |                                                                      |                           |
| 867                         | 101   | LUMP  | LUMP          | LUMP      |      | TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN | 707                       |

| NO. | DESCRIPTION                      | REV. BY | DATE       |
|-----|----------------------------------|---------|------------|
| 4   | FUNDING CODE CHANGE / ADDED TS4A | CWL     | 11-29-2021 |

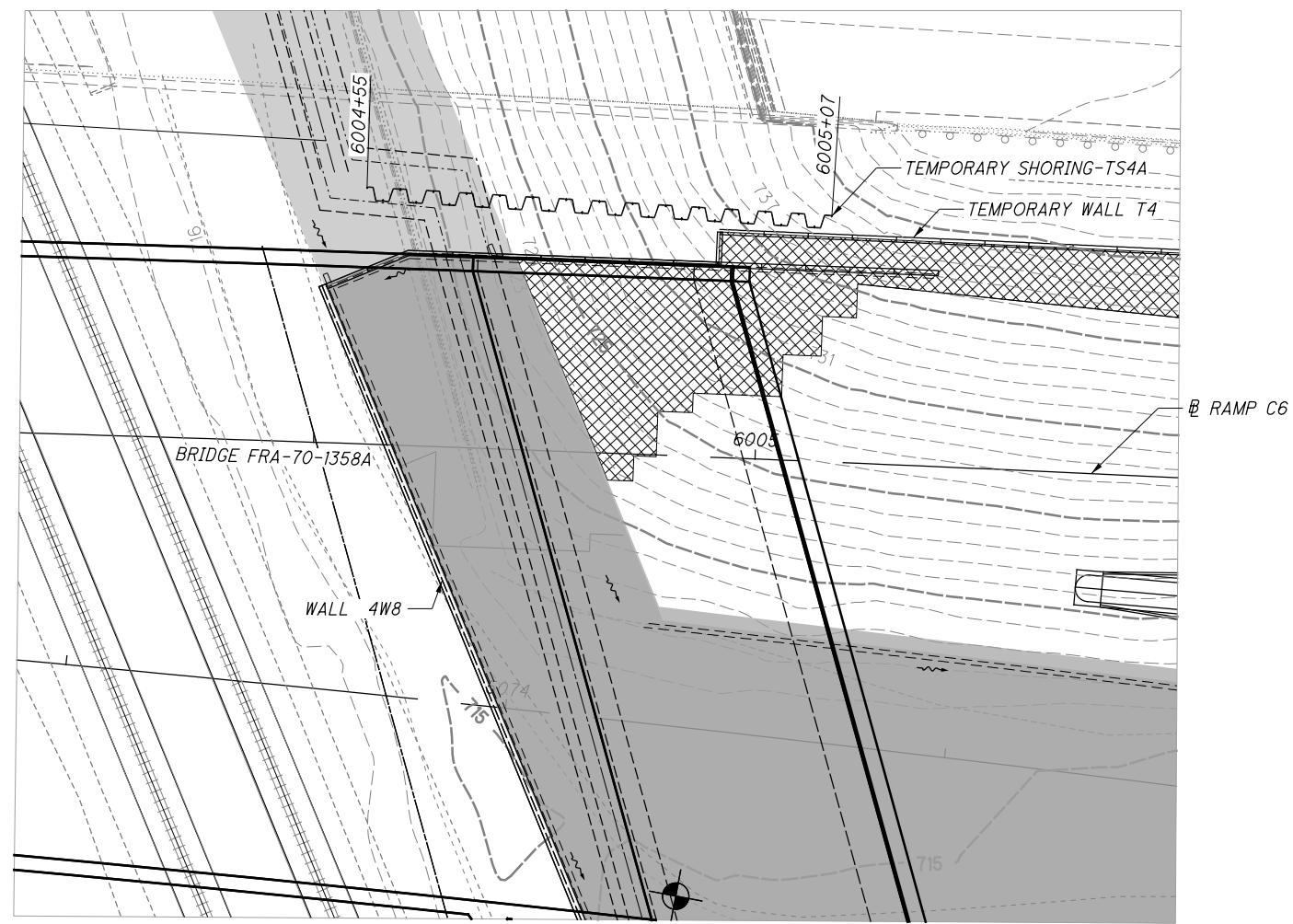
**ESTIMATED QUANTITIES**  
 TEMPORARY SHORING AND TEMPORARY WALLS

|                       |                |              |                |                 |                |
|-----------------------|----------------|--------------|----------------|-----------------|----------------|
| DESIGNED<br>MOJ       | CHECKED<br>RHC | DRAWN<br>MOJ | REVISED        | REVIEWED<br>TJW | DATE<br>9-6-19 |
| STRUCTURE FILE NUMBER |                |              | PID No. 105523 |                 |                |

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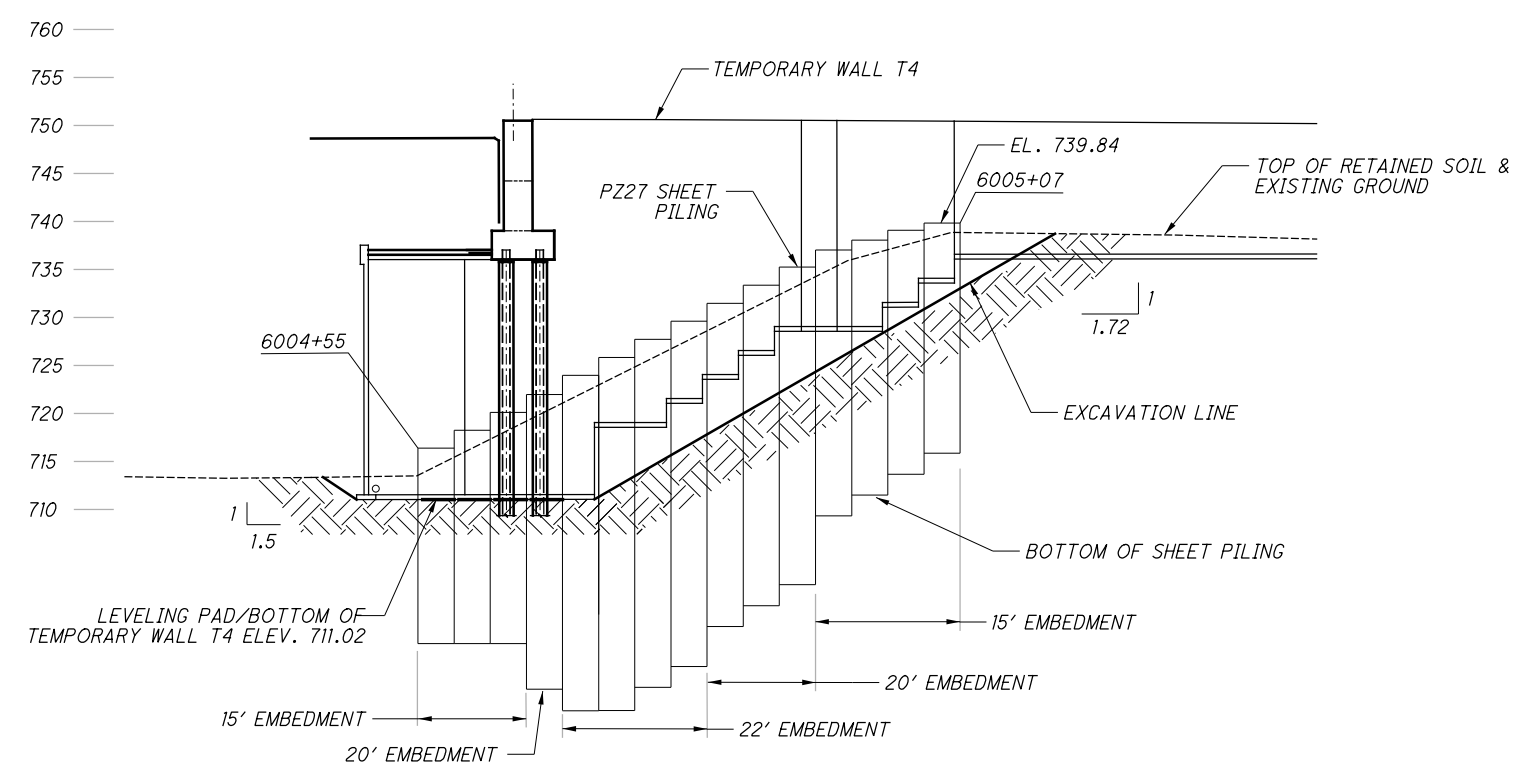
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**GPD GROUP**  
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**LEGEND:**

- LIMITS OF TEMPORARY WALL T4 EXCAVATION
- LIMITS OF PERMANENT WALL 4W8 EXCAVATION

PLAN - TEMPORARY SHORING-TS4A AT NE CORNER, BRIDGE FRA-70-1358A



ELEVATION - TEMPORARY SHORING-TS4A AT NE CORNER, BRIDGE FRA-70-1358A

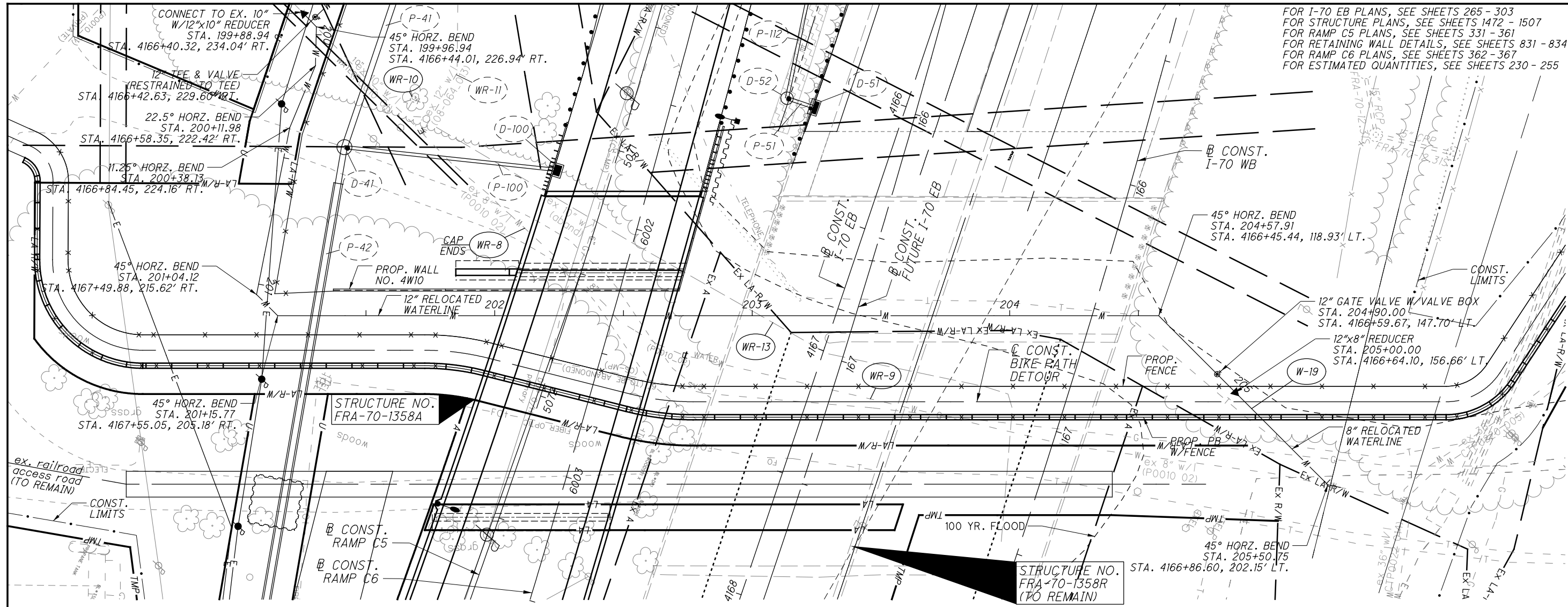
**NOTES:**

1. ITEM 503, COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN: THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRIVE FOR COFFERDAMS AND EXCAVATION BRACING. NO ADDITIONAL PAYMENT WILL BE MADE FOR PROVIDING AN ALTERNATE DESIGN.

|                                                       |                                                                                                                               |                                                                                                        |                                      |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------|
|                                                       | DESIGN AGENCY<br><b>DYNOTEC, INC.</b><br>2331 E. DUBLIN-CRANVILLE RD., COLUMBUS, OH 43231<br>614.880.7320 T • WWW.DYNOTEC.COM | DATE<br>11/12/2021                                                                                     | FILE NUMBER<br>STRUCTURE FILE NUMBER |
| REVIEWED<br>DN                                        | DRAWN<br>WCB                                                                                                                  | CHECKED<br>DN                                                                                          | REVISIONS<br>DN                      |
| FRANKLIN COUNTY<br>STA. 6004+16.68<br>STA. 6005+47.90 |                                                                                                                               | TEMPORARY SHORING SITE PLAN - TS4A<br>FRA-70-1358A<br>RAMP C5/C6 OVER CSX & NORFOLK SOUTHERN RAILROADS |                                      |
| PID No. 105523                                        |                                                                                                                               | FRA-70/71-12.68 / 14.86                                                                                |                                      |
| 1 / 1                                                 |                                                                                                                               | 890A<br>1815                                                                                           |                                      |



FOR I-70 EB PLANS, SEE SHEETS 265 - 303  
 FOR STRUCTURE PLANS, SEE SHEETS 1472 - 1507  
 FOR RAMP C5 PLANS, SEE SHEETS 331 - 361  
 FOR RETAINING WALL DETAILS, SEE SHEETS 831 - 834  
 FOR RAMP C6 PLANS, SEE SHEETS 362 - 367  
 FOR ESTIMATED QUANTITIES, SEE SHEETS 230 - 255



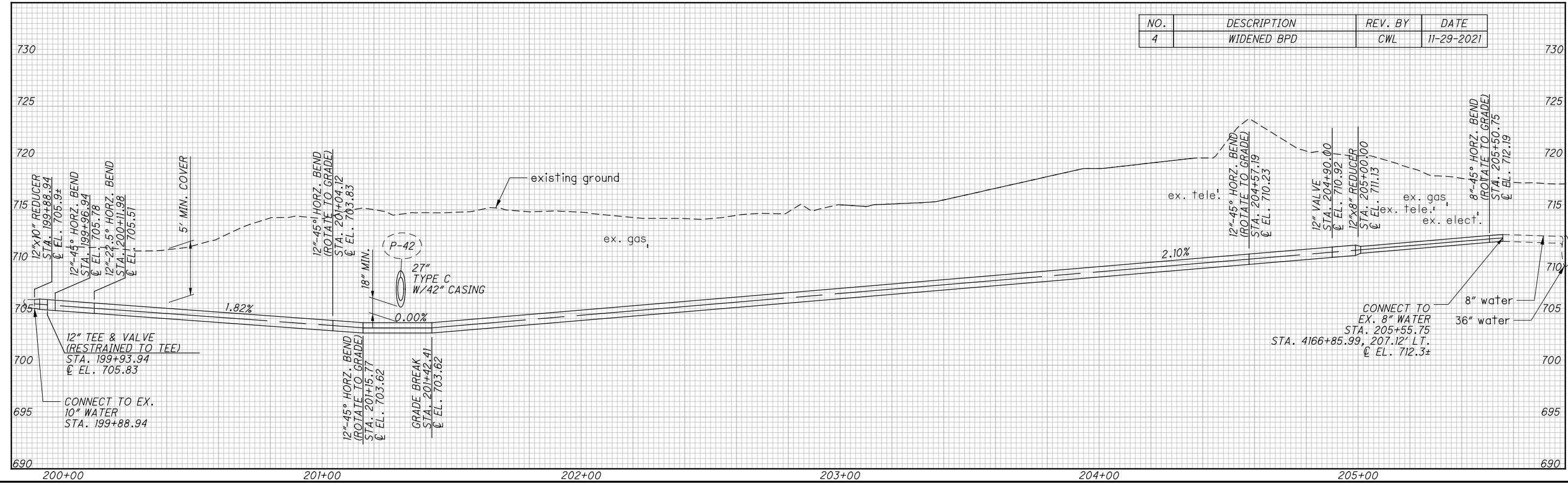
CALCULATED

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**WATER WORK PLAN AND PROFILE**

**12\"/>**

| NO. | DESCRIPTION | REV. BY | DATE       |
|-----|-------------|---------|------------|
| 4   | WIDENED BPD | CWL     | 11-29-2021 |



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| SHEET NUMBER |     |  |     |     |        |        |      |  |  |  | PARTICIPATION |           |               | ITEM | ITEM EXT. | GRAND TOTAL | UNIT | DESCRIPTION                                                                                      | SEE SHEET NO. |
|--------------|-----|--|-----|-----|--------|--------|------|--|--|--|---------------|-----------|---------------|------|-----------|-------------|------|--------------------------------------------------------------------------------------------------|---------------|
| 220          | 963 |  | 971 | 981 | 985    | 986    | 1049 |  |  |  | 01/NHS/PV     | 01/NHS/PV | 05/NHS/OT/COL |      |           |             |      |                                                                                                  |               |
|              | 550 |  |     |     |        |        |      |  |  |  | 242           | 308       |               | 621  | 00100     | 550         | EACH | RPM                                                                                              |               |
|              | 393 |  |     |     |        |        |      |  |  |  | 173           | 220       |               | 621  | 54000     | 393         | EACH | RAISED PAVEMENT MARKER REMOVED                                                                   |               |
|              |     |  |     |     |        | 15     |      |  |  |  | 7             | 8         |               | 625  | 32000     | 15          | EACH | GROUND ROD                                                                                       |               |
|              |     |  |     |     |        | 4      |      |  |  |  | 2             | 2         |               | 625  | 32001     | 4           | EACH | GROUND ROD, AS PER PLAN                                                                          | 959           |
| 240          |     |  |     |     |        |        |      |  |  |  | 106           | 134       |               | 626  | 00102     | 240         | EACH | BARRIER REFLECTOR, TYPE 1, ONE-WAY                                                               |               |
| 135          |     |  |     |     |        |        |      |  |  |  | 59            | 76        |               | 626  | 00110     | 135         | EACH | BARRIER REFLECTOR, TYPE 2, ONE-WAY                                                               |               |
|              |     |  |     |     | 817.1  |        |      |  |  |  | 330.7         | 420.9     | 65.5          | 630  | 02100     | 817.1       | FT   | GROUND MOUNTED SUPPORT, NO. 2 POST                                                               |               |
|              |     |  |     |     | 802.1  |        |      |  |  |  | 333.6         | 424.6     | 43.9          | 630  | 03100     | 802.1       | FT   | GROUND MOUNTED SUPPORT, NO. 3 POST                                                               |               |
|              |     |  |     |     | 74.5   |        |      |  |  |  | 32.8          | 41.7      |               | 630  | 04101     | 74.5        | FT   | GROUND MOUNTED SUPPORT, NO. 4 POST, AS PER PLAN                                                  | 959           |
|              |     |  |     |     |        | 42.2   |      |  |  |  | 18.6          | 23.6      |               | 630  | 07600     | 42.2        | FT   | GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12                                                   |               |
|              |     |  |     |     |        | 53.0   |      |  |  |  | 23.3          | 29.7      |               | 630  | 08000     | 53.0        | FT   | GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30                                                   |               |
|              |     |  |     |     | 86.6   |        |      |  |  |  | 38.1          | 48.5      |               | 630  | 08004     | 86.6        | FT   | ONE WAY SUPPORT, NO. 3 POST                                                                      |               |
|              |     |  |     |     | 4      |        |      |  |  |  | 2             | 2         |               | 630  | 08200     | 4           | EACH | GROUND MOUNTED SUPPORT, PIPE                                                                     |               |
|              |     |  |     |     | 1      |        |      |  |  |  | 0             | 1         |               | 630  | 08501     | 1           | EACH | STREET NAME SIGN SUPPORT, AS PER PLAN                                                            | 959           |
|              |     |  |     |     | 42     |        |      |  |  |  | 18            | 24        |               | 630  | 08600     | 42          | EACH | SIGN POST REFLECTOR                                                                              |               |
|              |     |  |     |     |        | 4      |      |  |  |  | 2             | 2         |               | 630  | 09000     | 4           | EACH | BREAKAWAY STRUCTURAL BEAM CONNECTION                                                             |               |
|              |     |  |     |     |        | 1      |      |  |  |  | 0             | 1         |               | 630  | 21000     | 1           | EACH | OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 10                                                  |               |
|              |     |  |     |     |        | 4      |      |  |  |  | 2             | 2         |               | 630  | 35500     | 4           | EACH | OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6                                                    |               |
|              |     |  |     |     |        | 5      |      |  |  |  | 2             | 3         |               | 630  | 45500     | 5           | EACH | OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 8                                                    |               |
|              |     |  |     |     |        | 3      |      |  |  |  | 1             | 2         |               | 630  | 74500     | 3           | EACH | OVERHEAD SIGN SUPPORT, MISC.: ANCHOR BOLT                                                        | 959           |
|              |     |  |     |     |        | 58     |      |  |  |  | 26            | 32        |               | 630  | 75000     | 58          | EACH | SIGN ATTACHMENT ASSEMBLY                                                                         |               |
|              |     |  |     |     | 4      |        |      |  |  |  | 0             | 1         | 3             | 630  | 79001     | 4           | EACH | SIGN HANGER ASSEMBLY, SPAN WIRE, AS PER PLAN                                                     | 959           |
|              |     |  |     |     | 17     |        |      |  |  |  | 7             | 8         | 2             | 630  | 79101     | 17          | EACH | SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN                                                      | 959           |
|              |     |  |     |     | 5      |        |      |  |  |  | 2             | 3         |               | 630  | 79500     | 5           | EACH | SIGN SUPPORT ASSEMBLY, POLE MOUNTED                                                              |               |
|              |     |  |     |     | 15     |        |      |  |  |  | 3             | 4         | 8             | 630  | 79501     | 15          | EACH | SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN                                                 | 959           |
|              |     |  |     |     | 1184.9 | 268.3  |      |  |  |  | 603.8         | 768.5     | 80.9          | 630  | 80100     | 1453.2      | SF   | SIGN, FLAT SHEET                                                                                 |               |
|              |     |  |     |     | 112.0  | 276.0  |      |  |  |  | 170.7         | 217.3     |               | 630  | 80200     | 388.0       | SF   | SIGN, GROUND MOUNTED EXTRUSHEET                                                                  |               |
|              |     |  |     |     |        | 6729.0 |      |  |  |  | 2960.8        | 3768.2    |               | 630  | 80224     | 6729.0      | SF   | SIGN, OVERHEAD EXTRUSHEET                                                                        |               |
|              |     |  |     |     | 9      |        |      |  |  |  | 1             | 1         | 7             | 630  | 80500     | 9           | EACH | SIGN, DOUBLE FACED, STREET NAME                                                                  |               |
|              |     |  |     |     | 5      |        |      |  |  |  | 2             | 3         |               | 630  | 81020     | 5           | EACH | CONCRETE MEDIAN BARRIER SIGN BRACKET                                                             |               |
|              |     |  |     |     |        | 8      |      |  |  |  | 4             | 4         |               | 630  | 84000     | 8           | EACH | CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TC-21.40                               |               |
|              |     |  |     |     |        | 2      |      |  |  |  | 1             | 1         |               | 630  | 84010     | 2           | EACH | CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TC-21.50                               |               |
|              |     |  |     |     |        | 4      |      |  |  |  | 2             | 2         |               | 630  | 84500     | 4           | EACH | GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION                                                |               |
|              |     |  |     |     |        | 19     |      |  |  |  | 8             | 11        |               | 630  | 84510     | 19          | EACH | RIGID OVERHEAD SIGN SUPPORT FOUNDATION                                                           |               |
|              |     |  |     |     | 4      |        |      |  |  |  | 2             | 2         |               | 630  | 84600     | 4           | EACH | GROUND MOUNTED PIPE SUPPORT FOUNDATION                                                           |               |
|              |     |  |     |     | 120    |        |      |  |  |  | 48            | 61        | 11            | 630  | 84900     | 120         | EACH | REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL                                                      |               |
|              |     |  |     |     | 2      |        |      |  |  |  | 0             | 1         | 1             | 630  | 85100     | 2           | EACH | REMOVAL OF GROUND MOUNTED SIGN AND REERECTION                                                    |               |
|              |     |  |     |     | 10     |        |      |  |  |  | 4             | 6         |               | 630  | 85400     | 10          | EACH | REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL                                                |               |
|              |     |  |     |     | 121    |        |      |  |  |  | 49            | 62        | 10            | 630  | 86002     | 121         | EACH | REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL                                              |               |
|              |     |  |     |     | 15     |        |      |  |  |  | 7             | 8         |               | 630  | 86102     | 15          | EACH | REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL                                   |               |
|              |     |  |     |     | 2      |        |      |  |  |  | 1             | 1         |               | 630  | 86272     | 2           | EACH | REMOVAL OF GROUND MOUNTED PIPE SUPPORT AND DISPOSAL                                              |               |
|              |     |  |     |     | 3      |        |      |  |  |  | 1             | 2         |               | 630  | 87100     | 3           | EACH | REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION                                                  |               |
|              |     |  |     |     | 94     |        |      |  |  |  | 39            | 50        | 5             | 630  | 87400     | 94          | EACH | REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL                                                    |               |
|              |     |  |     |     | 66     |        |      |  |  |  | 23            | 30        | 13            | 630  | 87500     | 66          | EACH | REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL                                                        |               |
|              |     |  |     |     | 6      |        |      |  |  |  | 3             | 3         |               | 630  | 89702     | 6           | EACH | REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL                                                    |               |
|              |     |  |     |     | 8      |        |      |  |  |  | 4             | 4         |               | 630  | 89902     | 8           | EACH | REMOVAL OF MISCELLANEOUS TRAFFIC CONTROL ITEM: REBOUNDABLE LONGITUDINAL CHANNELIZER TRAFFIC POST | 959           |
|              |     |  |     |     |        |        | LS   |  |  |  |               | 1         |               | 630  | 95000     | LS          |      | SIGNING, MISC.: BIKE DETOUR ROUTE                                                                | 1049          |
|              |     |  |     |     | 1      |        |      |  |  |  | 0             | 1         |               | 631  | 94490     | 1           | EACH | REMOVAL, MISC.: REMOVAL OF SIGN FLASHER ASSEMBLY                                                 | 959           |
|              |     |  |     |     | 86     |        |      |  |  |  | 38            | 48        |               | 644  | 00601     | 86          | FT   | CROSSWALK LINE, AS PER PLAN                                                                      | 959A          |
|              |     |  |     |     | 529    |        |      |  |  |  | 233           | 296       |               | 644  | 00720     | 529         | FT   | CHEVRON MARKING                                                                                  |               |
|              |     |  |     |     | 327    |        |      |  |  |  | 101           | 128       | 98            | 644  | 01200     | 327         | FT   | PARKING LOT STALL MARKING                                                                        |               |
|              |     |  |     |     | 19     |        |      |  |  |  | 8             | 11        |               | 644  | 01300     | 19          | FT   | LANE ARROW                                                                                       |               |
|              |     |  |     |     | 3      |        |      |  |  |  | 1             | 2         |               | 644  | 01400     | 3           | EACH | WORD ON PAVEMENT, 72"                                                                            |               |

TRAFFIC CONTROL GENERAL SUMMARY - SHEET 1 OF 2

FRA-70/71-12.68/14.86

961  
1815

| NO. | DESCRIPTION     | REV. BY | DATE     | NO. | DESCRIPTION         | REV. BY | DATE     |
|-----|-----------------|---------|----------|-----|---------------------|---------|----------|
| 1   | ADDED BEAM SIGN | AKF     | 10/22/21 | 4   | FUNDING CODE CHANGE | CWL     | 11/29/21 |

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| SHEET NUMBER |      |      |      |       |            |            |               |         |           |       | PARTICIPATION |                                                                       |      | ITEM | ITEM EXT. | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|--------------|------|------|------|-------|------------|------------|---------------|---------|-----------|-------|---------------|-----------------------------------------------------------------------|------|------|-----------|-------------|------|-------------|---------------|
| 964          | 959A | 965  | 971  | 975   | 01/NHS/P V | 01/NHS/P V | 05/NHS/OT/COL |         |           |       |               |                                                                       |      |      |           |             |      |             |               |
|              |      |      | 6    |       | 1          | 1          | 4             | 644     | 01630     | 6     | EACH          | BIKE LANE SYMBOL MARKING                                              |      |      |           |             |      |             |               |
|              |      |      | 10   |       | 4          | 6          |               | 644     | 19000     | 10    | EACH          | SHARED LANE MARKING                                                   |      |      |           |             |      |             |               |
|              |      | 435  |      |       | 191        | 244        |               | 644     | 30000     | 435   | FT            | REMOVAL OF PAVEMENT MARKING                                           |      |      |           |             |      |             |               |
|              |      | 15   |      |       | 7          | 8          |               | 644     | 30020     | 15    | EACH          | REMOVAL OF PAVEMENT MARKING                                           |      |      |           |             |      |             |               |
|              |      | 0.14 |      |       | 0.06       | 0.08       |               | 644     | 30030     | 0.14  | MILE          | REMOVAL OF PAVEMENT MARKING                                           |      |      |           |             |      |             |               |
|              |      |      | 199  |       | 88         | 111        |               | 644     | 50300     | 199   | FT            | PAVEMENT MARKING, MISC.: BIKE LANE DOTTED LINE, 5"                    | 959A |      |           |             |      |             |               |
|              |      |      | 344  |       | 151        | 193        |               | 644     | 50300     | 344   | FT            | PAVEMENT MARKING, MISC.: DOTTED LINE, 5"                              | 959A |      |           |             |      |             |               |
|              |      |      | 855  |       | 376        | 479        |               | 644     | 50300     | 855   | FT            | PAVEMENT MARKING, MISC.: CHANNELIZING LINE, 10"                       | 959A |      |           |             |      |             |               |
|              |      |      | 259  |       | 107        | 136        | 16            | 644     | 50300     | 259   | FT            | PAVEMENT MARKING, MISC.: STOP LINE, 20"                               | 959A |      |           |             |      |             |               |
|              |      |      | 522  |       | 220        | 279        | 23            | 644     | 50300     | 522   | FT            | PAVEMENT MARKING, MISC.: TRANSVERSE / DIAGONAL LINE, 20"              | 959A |      |           |             |      |             |               |
|              | 150  |      |      |       |            |            | 150           | 644     | 50300     | 150   | FT            | PAVEMENT MARKING, MISC.: SEPARATOR CURB ASSEMBLY                      | 959A |      |           |             |      |             |               |
|              |      |      | 0.48 |       | 0.11       | 0.15       | 0.22          | 644     | 50400     | 0.48  | MILE          | PAVEMENT MARKING, MISC.: EDGE LINE, 5"                                | 959A |      |           |             |      |             |               |
|              |      |      | 0.34 |       | 0.15       | 0.19       |               | 644     | 50400     | 0.34  | MILE          | PAVEMENT MARKING, MISC.: LANE LINE, 5"                                | 959A |      |           |             |      |             |               |
|              |      |      | 0.22 |       | 0.07       | 0.08       | 0.07          | 644     | 50400     | 0.22  | MILE          | PAVEMENT MARKING, MISC.: CENTER LINE, 5"                              | 959A |      |           |             |      |             |               |
|              |      |      |      | 0.04  | 0.01       | 0.01       | 0.02          | 645     | 90000     | 0.04  | MILE          | PAVEMENT MARKING, MISC.: EDGE LINE, 5", TYPE A1                       | 959A |      |           |             |      |             |               |
|              |      |      |      | 0.02  | 0.01       | 0.01       |               | 645     | 90000     | 0.02  | MILE          | PAVEMENT MARKING, MISC.: LANE LINE, 5", TYPE A1                       | 959A |      |           |             |      |             |               |
|              |      |      |      | 0.05  | 0.02       | 0.02       | 0.01          | 645     | 90000     | 0.05  | MILE          | PAVEMENT MARKING, MISC.: CENTER LINE, 5", TYPE A1                     | 959A |      |           |             |      |             |               |
|              |      |      |      | 231   | 102        | 129        |               | 645     | 98000     | 231   | FT            | PAVEMENT MARKING, MISC.: CHANNELIZING LINE, 10", TYPE A1              | 959A |      |           |             |      |             |               |
|              |      |      |      | 94    | 41         | 53         |               | 645     | 98000     | 94    | FT            | PAVEMENT MARKING, MISC.: DOTTED LINE, 5", TYPE A1                     | 959A |      |           |             |      |             |               |
|              |      |      |      | 62    | 27         | 35         |               | 646     | 10400     | 62    | FT            | STOP LINE                                                             |      |      |           |             |      |             |               |
|              |      |      |      | 238   | 105        | 133        |               | 646     | 10620     | 238   | FT            | CHEVRON MARKING                                                       |      |      |           |             |      |             |               |
|              |      |      |      | 28    | 12         | 16         |               | 646     | 20300     | 28    | EACH          | LANE ARROW                                                            |      |      |           |             |      |             |               |
|              |      |      |      | 5     | 2          | 3          |               | 647     | 20610     | 5     | EACH          | LANE ARROW, TYPE B90                                                  |      |      |           |             |      |             |               |
|              |      |      |      | 1     | 0          | 1          |               | 647     | 20710     | 1     | EACH          | WORD ON PAVEMENT, 72", TYPE B90                                       |      |      |           |             |      |             |               |
|              |      |      |      | 3     | 0          | 1          | 2             | 647     | 20910     | 3     | EACH          | BIKE LANE SYMBOL MARKING, TYPE B90                                    |      |      |           |             |      |             |               |
|              |      |      |      | 2     | 1          | 1          |               | 647     | 20940     | 2     | EACH          | SHARED LANE MARKING, TYPE B90                                         |      |      |           |             |      |             |               |
|              |      |      |      | 1     | 0          | 1          |               | 647     | 50100     | 1     | EACH          | PAVEMENT MARKING MISC.: BIKE BOX, TYPE B90                            | 959A |      |           |             |      |             |               |
|              |      |      |      | 76    | 20         | 26         | 30            | 647     | 50120     | 76    | FT            | PAVEMENT MARKING, MISC.: STOP LINE, 20", TYPE B90                     | 959A |      |           |             |      |             |               |
|              |      |      |      | 24    | 11         | 13         |               | 647     | 50120     | 24    | FT            | PAVEMENT MARKING, MISC.: TRANSVERSE / DIAGONAL LINE, 20", TYPE B90    | 959A |      |           |             |      |             |               |
|              |      |      |      | 633   | 209        | 267        | 157           | 647     | 50120     | 633   | FT            | PAVEMENT MARKING, MISC.: CROSSWALK LINE, 10", TYPE B90                | 959A |      |           |             |      |             |               |
|              |      |      |      | 50    | 22         | 28         |               | 647     | 50120     | 50    | FT            | PAVEMENT MARKING, MISC.: DOTTED LINE, 5", TYPE B90                    | 959A |      |           |             |      |             |               |
|              |      |      |      | 568   | 250        | 318        |               | 647     | 60020     | 568   | SF            | GREEN COLORED PAVEMENT FOR BIKES, TYPE B90                            |      |      |           |             |      |             |               |
|              | 77   |      |      |       | 24         | 30         | 23            | SPECIAL | 690E98000 | 77    | EACH          | PARKING METER POST REMOVAL                                            | 959A |      |           |             |      |             |               |
|              | 19   |      |      |       | 2          | 3          | 14            | SPECIAL | 690E98000 | 19    | EACH          | PARKING METER POST CORE AND PARKING METER POST                        | 959A |      |           |             |      |             |               |
|              | 19   |      |      |       | 2          | 3          | 14            | SPECIAL | 690E98000 | 19    | EACH          | PARKING METER POST AND INSTALLATION                                   | 959A |      |           |             |      |             |               |
|              |      |      |      | 7.98  | 3.51       | 4.47       |               | 807     | 14010     | 7.98  | MILE          | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"          |      |      |           |             |      |             |               |
|              |      |      |      | 6.13  | 2.70       | 3.43       |               | 807     | 14110     | 6.13  | MILE          | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"          |      |      |           |             |      |             |               |
|              |      |      |      | 0.19  | 0.08       | 0.11       |               | 807     | 14200     | 0.19  | MILE          | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CENTER LINE            |      |      |           |             |      |             |               |
|              |      |      |      | 12672 | 5576       | 7096       |               | 807     | 14310     | 12672 | FT            | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12" |      |      |           |             |      |             |               |
|              |      |      |      | 8157  | 3589       | 4568       |               | 807     | 14410     | 8157  | FT            | WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"        |      |      |           |             |      |             |               |
|              |      |      |      | 1.39  | 0.61       | 0.78       |               | 807     | 12010     | 1.39  | MILE          | WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"                  |      |      |           |             |      |             |               |
|              |      |      |      | 0.48  | 0.21       | 0.27       |               | 807     | 12110     | 0.48  | MILE          | WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"                  |      |      |           |             |      |             |               |
|              |      |      |      | 4233  | 1863       | 2370       |               | 807     | 12310     | 4233  | FT            | WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"         |      |      |           |             |      |             |               |
|              |      |      |      | 14.30 | 6.29       | 8.01       |               | 850     | 10010     | 14.30 | MILE          | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)                  |      |      |           |             |      |             |               |
|              |      |      |      | 8157  | 3589       | 4568       |               | 850     | 10110     | 8157  | FT            | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)                  |      |      |           |             |      |             |               |
|              |      |      |      | 12672 | 5576       | 7096       |               | 850     | 10130     | 12672 | FT            | GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)                 |      |      |           |             |      |             |               |
|              |      |      |      | 1.87  | 0.82       | 1.05       |               | 850     | 20010     | 1.87  | MILE          | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)                 |      |      |           |             |      |             |               |
|              |      |      |      | 4233  | 1863       | 2370       |               | 850     | 20130     | 4233  | FT            | GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)                |      |      |           |             |      |             |               |

TRAFFIC CONTROL GENERAL SUMMARY - SHEET 2 OF 2

FRA-70/71-12.68/14.86

| NO. | DESCRIPTION         | REV. BY | DATE     |
|-----|---------------------|---------|----------|
| 4   | FUNDING CODE CHANGE | CWL     | 11/29/21 |

962  
1815

D:\2012\20120418\FRA\105523\TRAFFIC\SHEETS\105523T002.DGN  
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| NO.  | DESCRIPTION | SHEET NUMBER |      |      |      | PARTICIPATION |           |               |               | ITEM  | ITEM EXT. | GRAND TOTAL | UNIT                                                                                    | DESCRIPTION | SEE SHEET NO. |
|------|-------------|--------------|------|------|------|---------------|-----------|---------------|---------------|-------|-----------|-------------|-----------------------------------------------------------------------------------------|-------------|---------------|
|      |             | 1098         | 1099 | 1099 | 1099 | 01/NHS/PV     | 01/NHS/PV | 05/NHS/OT/COL | 06/ENH/OT/COL |       |           |             |                                                                                         |             |               |
|      |             | 1098         | 1099 | 1099 | 1099 | 01/NHS/PV     | 01/NHS/PV | 05/NHS/OT/COL | 06/ENH/OT/COL |       |           |             |                                                                                         |             |               |
| 7    |             |              |      |      |      |               | 7         |               | 625           | 17961 | 7         | EACH        | BRACKET ARM, 8', AS PER PLAN                                                            | 1085        |               |
| 1    |             |              |      |      |      |               |           |               | 625           | 18501 | 1         | EACH        | BRACKET ARM, 25', AS PER PLAN                                                           | 1085        |               |
| 2287 |             |              |      |      | 1006 | 1281          |           |               | 625           | 23001 | 2287      | FT          | NO. 4 AWG 600 VOLT DISTRIBUTION CABLE, AS PER PLAN                                      | 1084        |               |
| 2763 |             |              |      |      | 1216 | 1547          |           |               | 625           | 23304 | 2763      | FT          | NO. 8 AWG 600 VOLT DISTRIBUTION CABLE                                                   | 1084        |               |
| 789  |             |              |      |      | 347  | 442           |           |               | 625           | 23400 | 789       | FT          | NO. 10 AWG POLE AND BRACKET CABLE                                                       |             |               |
| 312  |             |              |      |      | 137  | 175           |           |               | 625           | 25408 | 312       | FT          | CONDUIT, 2", 725.051                                                                    |             |               |
| 56   |             |              |      |      | 25   | 31            |           |               | 625           | 25504 | 56        | FT          | CONDUIT, 3", 725.051                                                                    |             |               |
| 1035 |             |              |      |      | 455  | 580           |           |               | 625           | 25802 | 1035      | FT          | CONDUIT, CONCRETE ENCASED, 2", 725.051                                                  |             |               |
| 1356 |             |              |      |      | 411  | 524           | 421       |               | 625           | 25920 | 1356      | FT          | CONDUIT, MISC.: ENCASED INTERCONNECT CONDUIT BANK, 4-3", 1-1.5", TC-2, SCH 40           | 1091        |               |
| 106  |             |              |      |      | 47   | 59            |           |               | 625           | 25920 | 106       | FT          | CONDUIT, MISC.: ENCASED INTERCONNECT CONDUIT BANK, 4-3", 2-2", 1-1.5", TC-2, SCH 40     | 1091        |               |
| 31   |             |              |      |      | 14   | 17            |           |               | 625           | 25920 | 31        | FT          | CONDUIT, MISC.: ENCASED INTERCONNECT CONDUIT BANK, 8-3", 1-1.5", TC-2, SCH 40           | 1091        |               |
| 203  |             |              |      |      | 89   | 114           |           |               | 625           | 25920 | 203       | FT          | CONDUIT, MISC.: 1.5", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE                      | 1085        |               |
| 622  |             |              |      |      | 274  | 348           |           |               | 625           | 25920 | 622       | FT          | CONDUIT, MISC.: 2", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE                        | 1085        |               |
| 1624 |             |              |      |      | 715  | 909           |           |               | 625           | 25920 | 1624      | FT          | CONDUIT, MISC.: 3", FIBERGLASS REINFORCED, ATTACHED TO STRUCTURE                        | 1085        |               |
| 156  |             |              |      |      | 69   | 87            |           |               | 625           | 29001 | 156       | FT          | TRENCH, AS PER PLAN                                                                     | 1084        |               |
| 2    |             |              |      |      | 1    | 1             |           |               | 625           | 31600 | 2         | EACH        | PULL BOX, MISC.: 12"X18"                                                                | 1083, 1084  |               |
| 1    |             |              |      |      | 625  | 31600         |           |               | 625           | 31600 | 1         | EACH        | PULL BOX, MISC.: CONCRETE 27"                                                           | 1083, 1084  |               |
| 9    |             |              |      |      | 3    | 4             | 2         |               | 625           | 31600 | 9         | EACH        | PULL BOX, MISC.: CONCRETE 32"                                                           | 1083, 1084  |               |
| 7    |             |              |      |      | 3    | 3             | 1         |               | 625           | 31600 | 7         | EACH        | PULL BOX, MISC.: CONCRETE 48"                                                           | 1083, 1084  |               |
| 20   |             |              |      |      | 9    | 11            |           |               | 625           | 32000 | 20        | EACH        | GROUND ROD                                                                              |             |               |
| 2    |             |              |      |      | 1    | 1             |           |               | 625           | 98000 | 2         | EACH        | LIGHTING, MISC.: PHOTO CELL                                                             | 1085        |               |
| 7    |             |              |      |      |      |               | 7         |               | 625           | 98000 | 7         | EACH        | LIGHTING, MISC.: LUMINAIRE, 150 W LED, 120 V, TEARDROP, BLACK                           | 1085        |               |
| 5    |             |              |      |      | 2    | 3             |           |               | 630           | 97700 | 5         | EACH        | SIGNING, MISC.: TRAFFIC SIGNAL SIGNS                                                    | 1085        |               |
| 3    |             |              |      |      | 1    | 2             |           |               | 632           | 04911 | 3         | EACH        | VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, ALUMINUM, AS PER PLAN         | 1085        |               |
| 15   |             |              |      |      | 7    | 8             |           |               | 632           | 05007 | 15        | EACH        | VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN    | 1086        |               |
| 1    |             |              |      |      | 1    | 1             |           |               | 632           | 05081 | 1         | EACH        | VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, ALUMINUM, AS PER PLAN         | 1085        |               |
| 2    |             |              |      |      | 1    | 1             |           |               | 632           | 05087 | 2         | EACH        | VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN    | 1086        |               |
| 16   |             |              |      |      | 7    | 9             |           |               | 632           | 20731 | 16        | EACH        | PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN                           | 1086        |               |
| 23   |             |              |      |      | 10   | 13            |           |               | 632           | 25001 | 23        | EACH        | COVERING OF VEHICULAR SIGNAL HEAD, AS PER PLAN                                          | 1086        |               |
| 16   |             |              |      |      | 7    | 9             |           |               | 632           | 25011 | 16        | EACH        | COVERING OF PEDESTRIAN SIGNAL HEAD, AS PER PLAN                                         | 1086        |               |
| 8    |             |              |      |      | 4    | 4             |           |               | 632           | 26001 | 8         | EACH        | PEDESTRIAN PUSHBUTTON, AS PER PLAN                                                      | 1086        |               |
| 244  |             |              |      |      | 107  | 137           |           |               | 632           | 29901 | 244       | FT          | MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN                   | 1091        |               |
| 3139 |             |              |      |      | 1381 | 1758          |           |               | 632           | 40700 | 3139      | FT          | SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG                                                   |             |               |
| 912  |             |              |      |      | 401  | 511           |           |               | 632           | 40900 | 912       | FT          | SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG                                                   |             |               |
| 3    |             |              |      |      | 632  | 3             |           |               | 632           | 62820 | 3         | EACH        | INTERCONNECT, MISC.: FIBER OPTIC SPLICE ENCLOSURE, CLAMHELL, 288 SPLICE                 | 1092        |               |
| 4    |             |              |      |      | 2    | 2             |           |               | 632           | 64011 | 4         | EACH        | SIGNAL SUPPORT FOUNDATION, AS PER PLAN                                                  | 1086        |               |
| 4    |             |              |      |      | 2    | 2             |           |               | 632           | 64020 | 4         | EACH        | PEDESTAL FOUNDATION                                                                     |             |               |
| 1027 |             |              |      |      | 452  | 575           |           |               | 632           | 65200 | 1027      | FT          | LOOP DETECTOR LEAD-IN CABLE                                                             |             |               |
| 90   |             |              |      |      | 40   | 50            |           |               | 632           | 68200 | 90        | FT          | POWER CABLE, 2 CONDUCTOR, NO. 6 AWG                                                     |             |               |
| 135  |             |              |      |      | 59   | 76            |           |               | 632           | 68300 | 135       | FT          | POWER CABLE, 3 CONDUCTOR, NO. 6 AWG                                                     |             |               |
| 2    |             |              |      |      | 1    | 1             |           |               | 632           | 70001 | 2         | EACH        | POWER SERVICE, AS PER PLAN                                                              | 1085        |               |
| 2    |             |              |      |      | 1    | 1             |           |               | 632           | 70400 | 2         | EACH        | CONDUIT RISER, 2" DIAMETER                                                              |             |               |
| 7    |             |              |      |      |      |               | 7         |               | 632           | 81700 | 7         | EACH        | COMBINATION SIGNAL SUPPORT, MISC.: CITY OF COLUMBUS DESIGN 4                            | 1088        |               |
| 1    |             |              |      |      |      |               | 1         |               | 632           | 81700 | 1         | EACH        | COMBINATION SIGNAL SUPPORT, MISC.: CITY OF COLUMBUS DESIGN 13                           | 1088        |               |
| 2    |             |              |      |      | 1    | 1             |           |               | 632           | 89300 | 2         | EACH        | WOOD POLE                                                                               |             |               |
|      |             |              | 1    |      | 632  | 1             |           |               | 632           | 89400 | 1         | EACH        | DOWN GUY                                                                                |             |               |
|      |             | 8            |      |      | 632  |               | 8         |               | 632           | 90010 | 8         | EACH        | PEDESTAL, MISC.: PEDESTAL, 10.7'                                                        | 1088        |               |
|      |             | 5            |      |      | 632  | 3             |           |               | 632           | 90101 | 5         | EACH        | REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN                                     | 1086        |               |
|      |             |              | 1    |      | 632  | 1             |           |               | 632           | 90104 | 1         | EACH        | REUSE OF TRAFFIC CONTROL ITEM: VIDEO DETECTION CAMERA AND BRACKET ARM                   | 1085        |               |
|      |             |              | 4    |      | 632  | 2             |           |               | 632           | 90201 | 4         | EACH        | REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN                                             | 1085        |               |
|      |             |              | 8    |      | 632  | 4             |           |               | 632           | 90400 | 8         | EACH        | SIGNALIZATION, MISC.: COVERING OF PEDESTRIAN PUSHBUTTON                                 | 1086        |               |
|      |             |              | 1    |      | 632  | 1             | 1         |               | 632           | 90400 | 1         | EACH        | SIGNALIZATION, MISC.: MAST ARM (ARM ONLY)                                               | 1087        |               |
|      |             |              | 7    |      | 632  | 3             | 4         |               | 632           | 90400 | 7         | EACH        | SIGNALIZATION, MISC.: FOUNDATION PRE-EXCAVATION                                         | 1086        |               |
|      |             |              | 4    |      | 632  | 2             | 2         |               | 632           | 90400 | 4         | EACH        | SIGNALIZATION, MISC.: PEDESTAL ATTACHED TO BRIDGE STRUCTURE                             | 1086        |               |
|      |             |              | 4    |      | 632  | 2             | 2         |               | 632           | 90400 | 4         | EACH        | SIGNALIZATION, MISC.: SIGNAL SUPPORT ATTACHED TO BRIDGE STRUCTURE                       | 1086        |               |
|      |             |              | 2    |      | 632  | 1             | 1         |               | 632           | 90400 | 2         | EACH        | SIGNALIZATION, MISC.: STOP LINE RADAR DETECTION SYSTEM                                  | 1088        |               |
|      |             |              | 1    |      | 632  | 0             | 1         |               | 632           | 90400 | 1         | EACH        | SIGNALIZATION, MISC.: POWER METER CABINET, BASE MOUNT, WITH FOUNDATION                  | 1088        |               |
|      |             |              | 2    |      | 633  | 1             | 1         |               | 633           | 67101 | 2         | EACH        | CABINET FOUNDATION, AS PER PLAN                                                         | 1089        |               |
|      |             |              | 2    |      | 633  | 1             | 1         |               | 633           | 99000 | 2         | EACH        | CONTROLLER ITEM, MISC.: CONTROLLER UNIT TS2/A2, W/ CABINET 16CH, SIZE 6, GROUND MOUNTED | 1092        |               |
|      |             |              | 4    |      | 633  | 2             | 2         |               | 633           | 99000 | 4         | EACH        | CONTROLLER ITEM, MISC.: FIBER OPTIC ETHERNET TRANSCEIVER, SHORT RANGE                   | 1092        |               |
|      |             |              | 2    |      | 633  | 1             | 1         |               | 633           | 99000 | 2         | EACH        | CONTROLLER ITEM, MISC.: LAYER 2 ETHERNET SWITCH                                         | 1092        |               |
|      |             |              | 202  |      | 804  | 113           |           |               | 804           | 32060 | 202       | FT          | DROP CABLE, 24 FIBER                                                                    |             |               |
|      |             |              | 2    |      | 804  | 2             |           |               | 804           | 34022 | 2         | EACH        | FIBER TERMINATION PANEL, 24 FIBER                                                       | 1090        |               |
|      |             |              | 1    |      | 809  | 1             |           |               | 809           | 60001 | 1         | 1           | CCTV IP-CAMERA SYSTEM, DOME-TYPE, AS PER PLAN                                           | 1090        |               |

TRAFFIC SIGNAL GENERAL SUMMARY

FRA - 70 / 71 - 12.68 / 14.86

1097  
1815

| NO. | DESCRIPTION         | REV. | BY | DATE       |
|-----|---------------------|------|----|------------|
| 3   | UPDATED QUANTITIES  | KMG  |    | 11-19-2021 |
| 4   | FUNDING CODE CHANGE | CWL  |    | 11-29-2021 |

| SHEET NUMBER |      |      |      |      |      |      |      |      |      |      |      |      |      |      | PART.     | ITEM  | ITEM  | GRAND | UNIT                | DESCRIPTION                                                              | SEE SHEET NO. |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------|-------|-------|---------------------|--------------------------------------------------------------------------|---------------|
| 1125         | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 01/NHS/PV | EXT   | TOTAL |       |                     |                                                                          |               |
|              |      |      |      | 94   |      |      |      |      |      |      |      |      | 168  |      | 262       | 25502 | 262   | FT    | CONDUIT, 3", 725.05 |                                                                          |               |
|              |      |      |      | 1328 | 2280 | 3912 | 2224 |      |      | 2190 | 2192 | 2404 |      |      | 16530     | 625   | 25752 | 16530 | FT                  | CONDUIT, 4" MULTICELL, 725.20, AS PER PLAN                               |               |
|              | 34   |      | 12   |      |      |      |      |      |      |      |      |      |      |      | 12        | 625   | 25900 | 12    | FT                  | CONDUIT, JACKED OR DRILLED, 2", 725.04                                   | 1091          |
|              |      |      |      | 94   |      |      |      |      |      |      |      |      | 84   |      | 34        | 625   | 25900 | 34    | FT                  | CONDUIT, JACKED OR DRILLED, 3", 725.04                                   |               |
|              |      |      |      | 1    | 2    | 3    |      |      |      | 1    | 1    | 2    |      |      | 178       | 625   | 29100 | 178   | FT                  | TRENCH, 36" DEEP                                                         |               |
|              |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 10        | 625   | 29931 | 10    | EACH                | MEDIAN JUNCTION BOX, AS PER PLAN                                         | 1092          |
|              |      |      |      |      | 4    | 1    | 3    |      |      | 2    | 3    | 2    |      |      | 15        | 625   | 31600 | 15    | EACH                | PULL BOX, MISC.: 32" ROUND CONCRETE (725.08)                             | 1083,1084     |
|              |      |      |      | 1    |      | 2    |      |      |      |      |      | 1    |      |      | 4         | 625   | 31600 | 4     | EACH                | PULL BOX, MISC.: 48" ROUND CONCRETE (725.08), TYPE 1, AS PER PLAN        | 1083,1084     |
|              | 1    | 4    | 5    | 3    |      |      |      |      |      |      |      |      |      |      | 13        | 625   | 32000 | 13    | EACH                | GROUND ROD                                                               |               |
|              |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      | 1         | 625   | 34000 | 1     | EACH                | POWER SERVICE                                                            |               |
|              | 416  | 1487 | 692  |      |      |      |      |      |      |      |      |      | 244  |      | 2839      | 632   | 29901 | 2839  | FT                  | MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES, AS PER PLAN    | 1091          |
|              | 2    | 2    | 3    |      |      |      |      |      |      |      |      |      |      |      | 7         | 632   | 62820 | 7     | EACH                | INTERCONNECT, MISC.: MODIFIED CONDUIT RISER                              | 1123          |
|              |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      | 1         | 632   | 62820 | 1     | EACH                | INTERCONNECT, MISC.: FIBER OPTIC SPLICE ENCLOSURE, CLAMSHELL, 288 SPLICE | 1092          |
| 1            |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      | 3         | 632   | 62820 | 3     | EACH                | INTERCONNECT, MISC.: FIBER OPTIC SPLICE ENCLOSURE, DOME, 800 SPLICE      | 1092          |
|              |      |      |      | 109  |      |      |      |      |      |      |      |      |      |      | 109       | 632   | 68300 | 109   | FT                  | POWER CABLE, 3 CONDUCTOR, NO. 6 AWG                                      |               |
|              | 1    | 4    | 5    |      |      |      |      |      |      |      |      |      |      |      | 10        | 632   | 89300 | 10    | EACH                | WOOD POLE                                                                |               |
|              | 1    | 2    | 4    |      |      |      |      |      |      |      |      |      |      |      | 7         | 632   | 89400 | 7     | EACH                | DOWN GUY                                                                 |               |
| 892          |      |      | 227  |      |      |      |      |      |      |      |      |      | 700  |      | 1819      | 804   | 15010 | 1819  | FT                  | FIBER OPTIC CABLE, 24 FIBER                                              |               |
| 840          | 1105 | 2292 | 1906 |      |      |      |      |      |      |      |      |      | 1910 | 1957 | 10010     | 804   | 15040 | 10010 | FT                  | FIBER OPTIC CABLE, 144 FIBER                                             |               |
|              |      |      |      | 898  | 1410 | 3007 | 1322 | 2594 | 801  | 2555 | 2617 | 3479 | 1963 |      | 20646     | 804   | 15050 | 20646 | FT                  | FIBER OPTIC CABLE, 288 FIBER                                             |               |
|              |      |      | 356  | 21   |      |      |      |      | 17   |      |      |      | 453  |      | 847       | 804   | 32060 | 847   | FT                  | DROP CABLE, 24 FIBER                                                     |               |
|              |      |      |      | 1    |      |      |      |      | 1    |      |      |      |      |      | 2         | 804   | 37000 | 2     | EACH                | SPLICE ENCLOSURE, BUTT STYLE                                             |               |
|              |      |      |      | 948  | 1605 | 1248 | 1322 | 2594 | 669  |      |      |      |      |      | 8386      | 804   | 98000 | 8386  | FT                  | FIBER OPTIC CABLE, MISC.: 96 FIBER, AS PER PLAN                          | 1091          |
| 661          | 1105 | 1261 | 553  |      |      |      |      |      |      |      |      |      |      |      | 3580      | 804   | 98000 | 3580  | FT                  | FIBER OPTIC CABLE, MISC.: 432 FIBER, AS PER PLAN                         | 1091          |
|              |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      | 1         | 809   | 60030 | 1     | EACH                | CCTV IP-CAMERA SYSTEM, ENHANCED                                          |               |
|              |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      | 1         | 809   | 61002 | 1     | EACH                | CCTV CONCRETE POLE, 70 FEET                                              |               |
|              |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      | 1         | 809   | 65000 | 1     | EACH                | ITS CABINET - GROUND MOUNTED                                             |               |
|              |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      | 1         | 809   | 68900 | 1     | EACH                | SIDE-FIRED RADAR DETECTOR                                                |               |

ITS GENERAL SUMMARY

FRA-70/71-12.68/14.86

| NO. | DESCRIPTION          | REV. BY | DATE       |
|-----|----------------------|---------|------------|
| 4   | FUNDING SPLIT CHANGE | JML     | 11-26-2021 |

1122  
1815

| SHEET NUM. |       |       |       |        |       |      |       |      | PART.     |           |           |               |               | ITEM    | ITEM     | GRAND  | UNIT | DESCRIPTION                                                             | SEE SHEET NO. | CALCULATED | JCS  | CHECKED | LH |
|------------|-------|-------|-------|--------|-------|------|-------|------|-----------|-----------|-----------|---------------|---------------|---------|----------|--------|------|-------------------------------------------------------------------------|---------------|------------|------|---------|----|
| 1165       | 1166  | 1167  | 1168  | 1169   | 1170  | 1171 | 1172  | 1202 | 01/NHS/PV | 01/NHS/PV | 04/MPO/OT | 05/NHS/OT/COL | 06/ENH/OT/COL | EXT     | TOTAL    |        |      |                                                                         |               |            |      |         |    |
| 12         |       | 26    | 24    | 27     |       |      |       |      | 39        | 50        |           |               |               | 625     | 00450    | 89     | EACH | CONNECTION, FUSED PULL APART                                            |               |            |      |         |    |
| 3          |       |       | 6     | 3      |       |      |       |      | 5         | 7         |           |               |               | 625     | 00470    | 12     | EACH | CONNECTION, UNFUSED BOLTED                                              |               |            |      |         |    |
| 12         |       | 21    | 3     | 6      | 15    |      |       |      | 18        | 24        | 15        |               |               | 625     | 00480    | 57     | EACH | CONNECTION, UNFUSED PERMANENT                                           |               |            |      |         |    |
|            |       |       | 1     |        |       |      |       |      |           | 1         |           |               |               | 625     | 10490    | 1      | EACH | LIGHT POLE, CONVENTIONAL, DESIGN AT15B40                                |               |            |      |         |    |
| 3          |       |       | 4     |        |       |      |       |      | 3         | 4         |           |               |               | 625     | 10490    | 7      | EACH | LIGHT POLE, CONVENTIONAL, DESIGN AT18B40                                |               |            |      |         |    |
|            |       | 3     |       |        |       |      |       |      | 1         | 2         |           |               |               | 625     | 10490    | 3      | EACH | LIGHT POLE, CONVENTIONAL, DESIGN ST10B40                                |               |            |      |         |    |
|            |       | 4     |       |        |       |      |       |      | 2         | 2         |           |               |               | 625     | 10490    | 4      | EACH | LIGHT POLE, CONVENTIONAL, DESIGN ST12B40                                |               |            |      |         |    |
|            |       |       | 1     |        |       |      |       |      |           | 1         |           |               |               | 625     | 10490    | 1      | EACH | LIGHT POLE, CONVENTIONAL, DESIGN ST15B40                                |               |            |      |         |    |
| 1          |       |       | 2     | 9      |       |      |       |      | 5         | 6         |           |               |               | 625     | 10490    | 11     | EACH | LIGHT POLE, CONVENTIONAL, DESIGN A12B40                                 |               |            |      |         |    |
|            |       |       |       |        |       |      |       |      |           | 1         |           |               |               | 625     | 10490    | 1      | EACH | LIGHT POLE, CONVENTIONAL, DESIGN A18B40                                 |               |            |      |         |    |
|            |       |       |       | 3      |       |      |       |      | 1         | 2         |           |               |               | 625     | 10494    | 3      | EACH | LIGHT POLE, LOW MAST, DESIGN ALM40                                      |               |            |      |         |    |
| 2          |       |       |       |        |       |      |       |      | 1         | 1         |           |               |               | 625     | 10494    | 2      | EACH | LIGHT POLE, LOW MAST, DESIGN ALM50                                      |               |            |      |         |    |
|            |       |       | 4     |        |       |      |       |      | 2         | 2         |           |               |               | 625     | 10494    | 4      | EACH | LIGHT POLE, LOW MAST, DESIGN ATLM50                                     |               |            |      |         |    |
| 4          |       | 28    | 12    | 48     |       |      |       |      | 40        | 52        |           |               |               | 625     | 10614    | 92     | EACH | LIGHT POLE ANCHOR BOLTS ON STRUCTURE                                    |               |            |      |         |    |
|            |       | 2     |       |        |       |      |       |      | 1         | 1         |           |               |               | 625     | 13200    | 2      | EACH | LIGHT TOWER, BBBB100                                                    |               |            |      |         |    |
| 1          |       |       |       |        |       |      |       |      |           | 1         |           |               |               | 625     | 13210    | 1      | EACH | LIGHT TOWER, BBBB130                                                    |               |            |      |         |    |
|            |       |       | 5     |        |       |      |       |      | 4         | 4         |           |               |               | 625     | 14100    | 8      | EACH | LIGHT POLE FOUNDATION, 24" X 8' DEEP                                    |               |            |      |         |    |
| 3          |       |       | 4     |        |       |      |       |      | 2         | 2         |           |               |               | 625     | 14200    | 4      | EACH | LIGHT POLE FOUNDATION, 24" X 10' DEEP                                   |               |            |      |         |    |
| 2          |       |       |       |        |       |      |       |      | 1         | 1         |           |               |               | 625     | 14306    | 2      | EACH | MEDIAN LIGHT POLE FOUNDATION, 10' DEEP                                  |               |            |      |         |    |
| 1          |       | 2     |       |        |       |      |       |      | 1         | 2         |           |               |               | 625     | 15300    | 3      | EACH | LIGHT TOWER FOUNDATION, 36" X 30' DEEP                                  |               |            |      |         |    |
| 1          |       |       |       |        |       |      |       |      |           | 1         |           |               |               | 625     | 15500    | 1      | EACH | LIGHT TOWER FOUNDATION, 42" X 30' DEEP                                  |               |            |      |         |    |
| 1,766      |       | 8,010 | 7,437 | 12,066 | 1,650 |      |       |      | 726       | 924       |           |               |               | 625     | 22900    | 1,650  | FT   | NO. 1/0 AWG 2400 VOLT DISTRIBUTION CABLE                                |               |            |      |         |    |
| 996        |       | 1,074 | 1,938 | 1,764  | 1,761 |      |       |      | 12,542    | 15,963    | 2,535     |               |               | 625     | 23200    | 31,040 | FT   | NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE                                  |               |            |      |         |    |
| 101        |       |       |       |        |       |      |       |      | 2,540     | 3,232     |           |               |               | 625     | 23400    | 5,772  | FT   | NO. 10 AWG POLE AND BRACKET CABLE                                       |               |            |      |         |    |
| 3,183      |       | 1,172 | 947   |        |       |      |       |      | 44        | 57        |           |               |               | 625     | 24100    | 101    | FT   | 1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 2400 VOLT CABLES                   |               |            |      |         |    |
|            |       |       |       |        |       |      |       |      | 2,333     | 2,969     |           |               |               | 625     | 24320    | 5,302  | FT   | 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES                 |               |            |      |         |    |
| 131        |       | 1,251 | 547   | 2,843  | 23    |      |       |      | 2,110     | 2,685     |           |               |               | 625     | 25400    | 4,795  | FT   | CONDUIT, 2", 725.04                                                     |               |            |      |         |    |
| 161        |       | 280   | 546   | 802    | 785   |      |       |      | 787       | 1,002     | 785       |               |               | 625     | 25500    | 2,574  | FT   | CONDUIT, 3", 725.04                                                     |               |            |      |         |    |
| 71         |       |       |       |        |       |      |       |      | 31        | 40        |           |               |               | 625     | 25900    | 71     | FT   | CONDUIT, JACKED OR DRILLED, 3"                                          |               |            |      |         |    |
|            |       |       |       |        |       | 847  | 2,065 |      | 1,281     | 1,631     |           |               |               | 625     | 25910    | 2,912  | FT   | CONDUIT CLEANED AND CABLES REMOVED                                      |               |            |      |         |    |
|            |       | 7     | 8     | 9      |       |      |       |      | 11        | 13        |           |               |               | 625     | 26253    | 24     | EACH | LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 133W, TYPE II  |               |            | 1163 |         |    |
| 4          |       |       |       |        |       |      |       |      | 2         | 2         |           |               |               | 625     | 26253    | 4      | EACH | LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, 133W, TYPE III |               |            | 1163 |         |    |
| 12         |       | 20    |       |        |       |      |       |      | 14        | 18        |           |               |               | 625     | 26263    | 32     | EACH | LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, 209W, TYPE V      |               |            | 1163 |         |    |
|            |       |       | 4     |        |       |      |       |      | 2         | 2         |           |               |               | 625     | 26273    | 4      | EACH | LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, 209W, TYPE III     |               |            | 1163 |         |    |
| 2          |       |       |       | 3      |       |      |       |      | 2         | 3         |           |               |               | 625     | 26273    | 5      | EACH | LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, 209W, TYPE V       |               |            | 1163 |         |    |
|            |       |       |       |        | 44    |      |       |      | 19        | 25        |           |               |               | 625     | 27503    | 44     | EACH | LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, 67W               |               |            | 1163 |         |    |
|            |       | 3     | 3     |        |       |      |       |      | 3         | 3         |           |               |               | 625     | 27503    | 6      | EACH | LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, 45W               |               |            | 1163 |         |    |
|            |       |       |       |        | 169   |      |       |      | 74        | 95        |           |               |               | 625     | 27504    | 169    | EACH | LUMINAIRE, TUNNEL, SOLID STATE (LED), 240W                              |               |            | 1163 |         |    |
|            |       |       |       |        | 16    |      |       |      |           |           | 16        |               |               | 625     | 27551    | 16     | EACH | LUMINAIRE, DECORATIVE, AS PER PLAN, RECESSED WALL LIGHT 9W              |               |            | 1193 |         |    |
|            |       |       |       |        | 5     |      |       |      |           |           | 5         |               |               | 625     | 27551    | 5      | EACH | LUMINAIRE, DECORATIVE, AS PER PLAN, LED TAPE LIGHT, 3W                  |               |            | 1193 |         |    |
|            |       |       |       |        | 5     |      |       |      |           |           | 5         |               |               | 625     | 27551    | 5      | EACH | LUMINAIRE, DECORATIVE, AS PER PLAN, LINEAR LED, 6W                      |               |            | 1193 |         |    |
| 2,945      |       | 1,436 | 1,493 | 612    | 631   |      |       |      | 2,864     | 3,645     | 608       |               |               | 625     | 29000    | 7,117  | FT   | TRENCH                                                                  |               |            |      |         |    |
|            |       |       | 1     | 1      |       |      |       |      | 1         | 1         |           |               |               | 625     | 29910    | 2      | EACH | TRANSITION JUNCTION BOX                                                 |               |            |      |         |    |
| 2          |       | 8     | 6     | 13     | 3     |      |       |      | 13        | 16        | 3         |               |               | 625     | 29920    | 32     | EACH | STRUCTURE JUNCTION BOX                                                  |               |            |      |         |    |
| 1          |       |       | 3     |        |       |      |       |      | 2         | 2         |           |               |               | 625     | 29930    | 4      | EACH | MEDIAN JUNCTION BOX                                                     |               |            |      |         |    |
|            |       |       |       | 2      |       |      |       |      | 1         | 1         |           |               |               | 625     | 29940    | 2      | EACH | BARRIER JUNCTION BOX                                                    |               |            |      |         |    |
| 5          |       | 3     | 3     | 2      | 2     |      |       |      | 5         | 7         | 3         |               |               | 625     | 30700    | 15     | EACH | PULL BOX, 725.08, 18"                                                   |               |            |      |         |    |
|            |       | 2     |       | 1      | 2     |      |       |      | 2         | 3         |           |               |               | 625     | 30706    | 5      | EACH | PULL BOX, 725.08, 24"                                                   |               |            |      |         |    |
|            |       |       |       |        |       | 6    | 4     |      | 4         | 6         |           |               |               | 625     | 31510    | 10     | EACH | PULL BOX REMOVED                                                        |               |            |      |         |    |
|            | 10    | 4     | 9     | 10     |       |      |       |      | 15        | 18        |           |               |               | 625     | 32000    | 33     | EACH | GROUND ROD                                                              |               |            |      |         |    |
| 1          |       |       | 2     | 3      | 1     |      |       |      | 3         | 4         |           |               |               | 625     | 33000    | 7      | EACH | STRUCTURE GROUNDING SYSTEM                                              |               |            |      |         |    |
| 2          |       |       |       | 1      | 2     |      |       |      | 2         | 3         |           |               |               | 625     | 34001    | 5      | EACH | POWER SERVICE, AS PER PLAN                                              |               |            | 1163 |         |    |
| 1          |       |       |       |        |       |      |       |      |           | 1         |           |               |               | 625     | 35020    | 1      | EACH | RE-ERECT EXISTING LIGHT TOWER                                           |               |            |      |         |    |
|            | 2,945 | 1,436 | 1,493 | 612    | 631   |      |       |      | 2,864     | 3,645     | 608       |               |               | 625     | 36010    | 7,117  | FT   | UNDERGROUND WARNING/MARKING TAPE                                        |               |            |      |         |    |
|            |       | 1     | 1     |        | 3     |      |       |      | 2         | 3         |           |               |               | 625     | 37101    | 5      | EACH | SERVICE TO UNDERPASS LIGHTING, AS PER PLAN                              |               |            | 1163 |         |    |
|            |       |       |       |        |       | 9    | 1     |      | 4         | 6         |           |               |               | 625     | 39520    | 10     | EACH | PULL BOX CLEANED                                                        |               |            |      |         |    |
|            |       |       |       |        |       |      |       |      | LS        | LS        |           |               |               | SPECIAL | 62540000 | LS     |      | MAINTAIN EXISTING LIGHTING                                              |               |            | 1163 |         |    |
|            |       |       |       |        |       | 2    |       |      | 1         | 1         |           |               |               | 625     | 75350    | 2      | EACH | LIGHT TOWER REMOVED                                                     |               |            |      |         |    |

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LIGHTING GENERAL SUMMARY

FRA-70/71-12.68 / 14.86

1164  
1815

| SHEET NUM.                        |      |      |      |      |      |       |      |       | PART.     |           |           |               |               | ITEM | ITEM EXT | GRAND TOTAL | UNIT  | DESCRIPTION | SEE SHEET NO.                                                                  |            |
|-----------------------------------|------|------|------|------|------|-------|------|-------|-----------|-----------|-----------|---------------|---------------|------|----------|-------------|-------|-------------|--------------------------------------------------------------------------------|------------|
| 1165                              | 1166 | 1167 | 1168 | 1169 | 1170 | 1171  | 1172 | 1202  | 01/NHS/PV | 01/NHS/PV | 04/MPO/OT | 05/NHS/OT/COL | 06/ENH/OT/COL |      |          |             |       |             |                                                                                |            |
|                                   |      |      |      |      |      | 1     |      |       |           |           |           |               |               |      | 625      | 75361       | 1     | EACH        | LIGHT TOWER REMOVED FOR STORAGE, AS PER PLAN                                   | 1175       |
|                                   |      |      |      |      |      | 8     | 8    |       | 7         | 9         |           |               |               |      | 625      | 75400       | 16    | EACH        | LIGHT POLE REMOVED                                                             |            |
|                                   |      |      |      |      |      | 8     | 8    |       | 7         | 9         |           |               |               |      | 625      | 75500       | 16    | EACH        | LIGHT POLE FOUNDATION REMOVED                                                  |            |
|                                   |      |      |      |      |      | 44    | 11   |       | 24        | 31        |           |               |               |      | 625      | 75506       | 55    | EACH        | LUMINAIRE REMOVED                                                              |            |
|                                   |      |      |      |      |      | 1     | 1    |       | 1         | 1         |           |               |               |      | 625      | 75510       | 2     | EACH        | POWER SERVICE REMOVED                                                          |            |
|                                   |      |      |      |      |      |       | 3    |       | 1         | 2         |           |               |               |      | 625      | 75521       | 3     | EACH        | LUMINAIRE SUPPORT REMOVED, AS PER PLAN                                         | 1180       |
|                                   |      |      |      |      |      | 3     |      |       | 1         | 2         |           |               |               |      | 625      | 75540       | 3     | EACH        | LIGHT TOWER FOUNDATION REMOVED                                                 |            |
|                                   |      |      |      |      |      | 2,842 |      |       | 1,250     | 1,592     |           |               |               |      | 625      | 75550       | 2,842 | FT          | DISTRIBUTION CABLE REMOVED                                                     |            |
|                                   |      |      |      |      |      | 19    | 12   |       | 14        | 17        |           |               |               |      | 625      | 75801       | 31    | EACH        | DISCONNECT CIRCUIT, AS PER PLAN                                                | 1163       |
|                                   | 2    |      |      |      |      |       |      |       | 1         | 1         |           |               |               |      | 625      | 98000       | 2     | EACH        | LIGHTING, MISC.: REFURBISH EXISTING LIGHT TOWER                                | 1163       |
|                                   |      |      |      |      | 3    |       |      |       |           |           | 3         |               |               |      | 625      | 98000       | 3     | EACH        | LIGHTING, MISC.: SERVICE TO DECORATIVE LIGHTING                                | 1163       |
|                                   |      |      |      |      | 1    |       |      |       |           | 1         |           |               |               |      | 625      | 98000       | 1     | EACH        | LIGHTING, MISC.: SERVICE TO TUNNEL LIGHTING                                    | 1196       |
|                                   |      |      |      |      |      | 220   |      |       | 97        | 123       |           |               |               |      | 625      | 98100       | 220   | FT          | LIGHTING, MISC.: CONDUIT REMOVED                                               | 1163       |
| <b>CITY OF COLUMBUS PAY ITEMS</b> |      |      |      |      |      |       |      |       |           |           |           |               |               |      |          |             |       |             |                                                                                |            |
|                                   |      |      |      |      |      |       |      | 6     | 6         |           |           |               |               |      | 625      | 98000       | 6     | EACH        | LIGHTING, MISC.: UNDERPASS LUMINAIRE, 39W                                      | 1202       |
|                                   |      |      |      |      |      |       |      | 1     | 1         |           |           |               |               |      | 625      | 98000       | 1     | EACH        | LIGHTING, MISC.: MIS-56: RISER, STREET LIGHT CIRCUIT, AS PER PLAN              | 1202       |
|                                   |      |      |      |      |      |       |      | 2     | 2         |           |           |               |               |      | 625      | 98000       | 2     | EACH        | LIGHTING, MISC.: MIS-57: 100 AMP METER, SELF-CONTAINED WITH METER SOCKET       | 1202       |
|                                   |      |      |      |      |      |       |      | 7     |           |           |           |               | 7             |      | 625      | 98000       | 7     | EACH        | LIGHTING, MISC.: MIS-104: BRACKET ASSEMBLY, TRAFFIC/LIGHT COMB. POLE, DOWNTOWN | 1202       |
|                                   |      |      |      |      |      |       |      | 7     |           |           |           | 2             | 5             |      | 625      | 98000       | 7     | EACH        | LIGHTING, MISC.: MIS-203: STREET LIGHT FOUNDATION, 6', DOWNTOWN                | 1202       |
|                                   |      |      |      |      |      |       |      | 7     |           |           |           | 2             | 5             |      | 625      | 98000       | 7     | EACH        | LIGHTING, MISC.: MIS-308: POLE, DOWNTOWN                                       | 1202       |
|                                   |      |      |      |      |      |       |      | 14    |           |           |           | 3             | 11            |      | 625      | 98000       | 14    | EACH        | LIGHTING, MISC.: MIS-501: POLE TO BE WIRED, 3 WIRE                             | 1202       |
|                                   |      |      |      |      |      |       |      | 9     | 7         |           |           | 2             |               |      | 625      | 98000       | 9     | EACH        | LIGHTING, MISC.: MIS-54: PULL BOX, 13"X24"                                     | 1202,1202A |
|                                   |      |      |      |      |      |       |      | 2     | 2         |           |           |               |               |      | 625      | 98000       | 2     | EACH        | LIGHTING, MISC.: MIS-54: PULL BOX, AS PER PLAN, 17"X30"                        | 1202,1202A |
|                                   |      |      |      |      |      |       |      | 5     | 4         |           |           | 1             |               |      | 625      | 98000       | 5     | EACH        | LIGHTING, MISC.: MIS-502: 3-WIRE RETROFIT LIGHT POLE WITH FOUNDATION           | 1202       |
|                                   |      |      |      |      |      |       |      | 2     | 2         |           |           |               |               |      | 625      | 98000       | 2     | EACH        | LIGHTING, MISC.: MIS-603: CONTROLLER, 3 WIRE, 480V, PAD MOUNT                  | 1202       |
|                                   |      |      |      |      |      |       |      | 7     |           |           |           |               | 7             |      | 625      | 98000       | 7     | EACH        | LIGHTING, MISC.: MIS-801: LUMINAIRE, LED, TEARDROP (120V)                      | 1202       |
|                                   |      |      |      |      |      |       |      | 7     |           |           |           | 2             | 5             |      | 625      | 98000       | 7     | EACH        | LIGHTING, MISC.: MIS-801: LUMINAIRE, LED, TEARDROP (480V)                      | 1202       |
|                                   |      |      |      |      |      |       |      | 8     | 3         |           |           | 5             |               |      | 625      | 98000       | 8     | EACH        | LIGHTING, MISC.: MIS-900: FOUNDATION REMOVAL                                   | 1202       |
|                                   |      |      |      |      |      |       |      | 4     | 4         |           |           |               |               |      | 625      | 98000       | 4     | EACH        | LIGHTING, MISC.: SPECIAL: STRUCTURE JUNCTION BOX                               | 1202,1202A |
|                                   |      |      |      |      |      |       |      | 8     | 8         |           |           |               |               |      | 625      | 98000       | 8     | EACH        | LIGHTING, MISC.: SPECIAL: NON-METALLIC JUNCTION BOX                            | 1202       |
|                                   |      |      |      |      |      |       |      | 1     | 1         |           |           |               |               |      | 625      | 98000       | 1     | EACH        | LIGHTING, MISC.: MIS-501, AS PER PLAN: PULL BOX UNDERPASS WIRING               | 1202       |
|                                   |      |      |      |      |      |       |      | 2,602 | 2,104     |           |           | 498           |               |      | 625      | 98100       | 2,602 | FT          | LIGHTING, MISC.: MIS-404: UNDERGROUND CIRCUIT, 3 WIRE                          | 1202       |
|                                   |      |      |      |      |      |       |      | 2,093 | 1,681     |           |           | 412           |               |      | 625      | 98100       | 2,093 | FT          | LIGHTING, MISC.: MIS-700: 2-INCH CONDUIT, CONCRETE ENCASED                     | 1202       |
|                                   |      |      |      |      |      |       |      | 418   | 418       |           |           |               |               |      | 625      | 98100       | 418   | FT          | LIGHTING, MISC.: SPECIAL: 1-1/4" SCHEDULE 40 PVC CONDUIT                       | 1202       |
|                                   |      |      |      |      |      |       |      | 6     | 6         |           |           |               |               |      | 625      | 98100       | 6     | FT          | LIGHTING, MISC.: SPECIAL: 3/4" SCHEDULE 40 PVC CONDUIT                         | 1202       |
|                                   |      |      |      |      |      |       |      | 465   | 465       |           |           |               |               |      | 625      | 98100       | 465   | FT          | LIGHTING, MISC.: SPECIAL: CIRCUIT CABLE - (3) #10 AWG COPPER, XHHW             | 1202       |
|                                   |      |      |      |      |      |       |      |       | LS        |           |           | LS            |               |      | 625      | 98200       | LS    |             | LIGHTING, MISC.: MIS-901: EXISTING OVERHEAD SYSTEM REMOVAL                     | 1202       |
|                                   |      |      |      |      |      |       |      |       | LS        |           |           | LS            |               |      | 625      | 98200       | LS    |             | LIGHTING, MISC.: MIS-902: EXISTING UNDERGROUND SYSTEM REMOVAL                  | 1202       |

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**LIGHTING GENERAL SUMMARY**

FRA-70/71-12.68 / 14.86



LANDSCAPE GENERAL SUMMARY - URBAN AVENUES

CALCULATED  
RDH  
CHECKED  
JRB

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| PLAN SHEET NUMBER |      |      |      |      |      |      |      | PARTICIPATION<br>04/MPO/OT | ITEM    | ITEM<br>EXT | GRAND<br>TOTAL | UNIT | DESCRIPTION                                                                                                     | DETAIL<br>SHEET NO. |
|-------------------|------|------|------|------|------|------|------|----------------------------|---------|-------------|----------------|------|-----------------------------------------------------------------------------------------------------------------|---------------------|
| 1208              | 1210 | 1212 | 1213 | 1214 | 1217 | 1218 | 1219 |                            |         |             |                |      |                                                                                                                 |                     |
|                   |      |      |      |      | 164  | 270  | 118  | 552                        | 659     | 10001       | 552            | SY   | SEEDING AND MULCHING, AS PER PLAN                                                                               | 1222                |
|                   |      |      |      |      | 26   |      | 26   | 52                         | 661     | 20001       | 52             | EACH | DECIDUOUS SHRUB, 15" HEIGHT, AS PER PLAN - RIBES ALPINUM 'GREEN MOUND' - GREEN MOUND ALPINE CURRANT             | 1222                |
|                   |      |      |      |      |      |      | 12   | 12                         | 661     | 20041       | 12             | EACH | DECIDUOUS SHRUB, 24" HEIGHT, AS PER PLAN - VIBURNUM OPULUS 'COMPACTUM' - COMPACT EUROPEAN VIBURNUM              | 1222                |
|                   |      |      |      |      | 129  |      | 50   | 161                        | 661     | 30061       | 161            | EACH | EVERGREEN SHRUB, 2' HEIGHT, AS PER PLAN - BUXUS X 'GREEN VELVET'- GREEN VELVET BOXWOOD                          | 1222                |
|                   |      |      |      |      |      |      | 2    | 2                          | 661     | 40141       | 2              | EACH | DECIDUOUS TREE, 4" CALIPER, AS PER PLAN - GLEDISTIA T.I. 'IMPERIAL' - IMPERIAL HONEYLOCUST                      | 1222                |
|                   |      |      |      |      | 2    |      |      | 2                          | 661     | 40141       | 2              | EACH | DECIDUOUS TREE, 4" CALIPER, AS PER PLAN - ULMUS PARVIFOLIA 'ALLEE' - LACEBARK ELM                               | 1222                |
|                   |      |      |      |      | 23   |      |      | 23                         | 661     | 40141       | 23             | EACH | DECIDUOUS TREE, 4" CALIPER, AS PER PLAN - GINGKO B. 'PRINCETON SENTRY' - PRINCETON SENTRY MAIDENHAIR TREE       | 1222                |
|                   |      |      |      |      |      |      | 5    | 5                          | 661     | 40141       | 5              | EACH | DECIDUOUS TREE, 4" CALIPER, AS PER PLAN - PLATANUS ACERFOLIA 'EXCLAMATION' - EXCLAMATION LONDON PLANE TREE      | 1222                |
|                   |      |      |      |      |      |      | 16   | 16                         | 661     | 99900       | 16             | EACH | PLANTING, MISC: 24" SPREAD, AS PER PLAN - SCHIZACHYRIUM SCOPARIUM 'SMOKE SIGNAL' - SMOKE SIGNAL LITTLE BLUESTEM | 1222                |
|                   |      |      |      |      |      | 34   | 5    | 39                         | 661     | 99900       | 39             | EACH | PLANTING, MISC: 18" SPREAD, AS PER PLAN - JUNIPERUS SABINA 'BUFFALO' - BUFFALO JUNIPER                          | 1222                |
|                   |      |      |      |      | 6    |      |      | 6                          | 661     | 99900       | 6              | EACH | PLANTING, MISC: 14" HEIGHT - CRATAEGUS VIRIDIS 'WINTER KING'- WINTER KING HAWTHORN                              | 1222                |
|                   |      |      |      |      | 374  |      |      | 374                        | 661     | 99900       | 374            | EACH | PLANTING, MISC.: 18" SPREAD ARCTOSTAPHYLOS U. 'MASSACHUSETTS'- MASSACHUSETTS BEARBERRY                          | 1222                |
|                   |      |      |      |      | 102  |      |      | 102                        | 661     | 99900       | 102            | EACH | PLANTING, MISC.: HELICTRICHON SEMPERVIRENS 'SAPPHIRE'- SAPPHIRE BLUE OATS GRASS                                 | 1222                |
|                   |      |      |      |      |      |      | 315  | 315                        | 661     | 99900       | 315            | EACH | PLANTING, MISC.: LIRIOPE MUSCARI - BIG BLUE LILY TURF                                                           | 1222                |
|                   |      |      |      |      | 605  | 575  | 134  | 1,314                      | 661     | 99900       | 1,314          | EACH | PLANTING, MISC.: HEDERA HELIX- ENGLISH IVY                                                                      | 1222                |
|                   |      |      |      |      |      | 26   |      | 26                         | 661     | 99900       | 26             | EACH | PLANTING, MISC.: PARTHENOCISSUS TRICUSPIDATA- BOSTON IVY                                                        | 1222                |
| 2                 | 1    |      |      |      |      |      |      | 3                          | SPECIAL | 68014550    | 3              | EACH | TRASH (LITTER) RECEPTACLE                                                                                       | 1785                |
|                   |      |      |      |      |      |      |      | 4                          | SPECIAL | 69098000    | 6              | EACH | TREE GRATE, 4' X 8'                                                                                             | 1224                |
|                   | 16   |      |      |      |      |      |      | 17                         | SPECIAL | 69098000    | 17             | EACH | LIVINGSTON AVE. PLANTER POT TYPE B                                                                              | 1773                |
|                   | 375  |      |      |      |      |      |      | 375                        | SPECIAL | 69098100    | 375            | FT   | CURB, GRANITE CURB AT LIVINGSTON PLANTERS                                                                       | 1773                |
| 750               |      |      |      |      |      |      |      | 750                        | SPECIAL | 69098100    | 750            | FT   | CURB, PRECAST CONCRETE CURB AT FULTON STREET PLANTERS                                                           | 1773                |
| 1                 |      |      |      |      |      |      |      | 1                          | SPECIAL | 69098400    | 1              |      | PRECAST CONCRETE PLANTERS AT FULTON STREET CANTILEVER                                                           | 1773                |
|                   |      | 55   | 117  | 66.5 |      |      |      | 238.5                      | SPECIAL | 69098700    | 238.5          | CY   | TURFGRASS SOIL MIX FURNISHED & PLACED, AS PER PLAN (12" DEPTH UPPER HORIZON)                                    | 1222                |
|                   |      | 21   | 45   | 25   |      |      |      | 91                         | SPECIAL | 69098700    | 91             | CY   | TURFGRASS BASE MIX FURNISHED & PLACED, AS PER PLAN (4 1/2" DEPTH LOWER HORIZON)                                 | 1222                |
|                   |      | 236  | 60   | 12   |      |      |      | 308                        | SPECIAL | 69098700    | 308            | CY   | TREE AND PLANTS SOIL MIX FURNISHED & PLACED, AS PER PLAN (24" DEPTH UPPER HORIZON)                              | 1222                |
|                   |      | 88.5 | 22.5 | 5    |      |      |      | 116                        | SPECIAL | 69098700    | 116            | CY   | TREE AND PLANTS BASE MIX FURNISHED & PLACED, AS PER PLAN (9" DEPTH LOWER HORIZON)                               | 1222                |
|                   |      | 240  |      | 236  |      |      |      | 476                        | SPECIAL | 69098700    | 476            | CY   | SAND-BASED STRUCTURAL SOIL MIX FURNISHED & PLACED, AS PER PLAN (24" DEPTH UPPER HORIZON)                        | 1224                |
|                   |      | 90   |      | 88.5 |      |      |      | 178.5                      | SPECIAL | 69098700    | 178.5          | CY   | SAND-BASED STRUCTURAL SOIL BASE MIX FURNISHED & PLACED, (9" DEPTH LOWER HORIZON)                                | 1224                |

LANDSCAPE GENERAL SUMMARY

FRA-70/71-  
12.68/14.86

| NO. | DESCRIPTION               | REV. BY      | DATE       |
|-----|---------------------------|--------------|------------|
| 4   | FUNDING SPLIT CODE CHANGE | MKSK/<br>LHW | 11.26.2021 |

3486 - E

1207  
1815

**GENERAL NOTES:**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-15 (REVISED) 07-17-15                      SBR-1-13 (REVISED) 07-20-18  
AS-2-15 (REVISED) 01-18-19                      SICD-1-96 (REVISED) 07-18-14  
PCB-91 (REVISED) 07-17-20                      SICD-2-14 (REVISED) 01-15-21  
PSID-1-13 (REVISED) 01-15-21

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800 DATED 10-15-21  
832 DATED 10-19-18

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, 2002 AND THE ODOT BRIDGE DESIGN MANUAL, 2004 EDITION, INCLUDING REVISIONS THROUGH JANUARY 2015.

DESIGN LOADING:

HS25 AND THE ALTERNATE MILITARY LOADING  
FUTURE WEARING SURFACE (FWS) = 60 PSF

DESIGN DATA:

CLASS QC2 CONCRETE WITH QC/QA - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE)

CLASS QC1 CONCRETE WITH QC/QA - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996 GRADE 60  
MINIMUM YIELD STRENGTH 60,000 PSI

STEEL H-PILES - ASTM A572 GRADE 50 - YIELD STRENGTH 50 KSI

CONCRETE FOR PRESTRESSED BEAMS:

COMPRESSIVE STRENGTH (FINAL) - 7500 PSI  
COMPRESSIVE STRENGTH (RELEASE) - 5000 PSI

WELDED WIRE FABRIC:

YIELD STRENGTH - 70 KSI

PRESTRESSING STRAND - ASTM A416 0.6" DIA.

AREA = 0.217 SQ. IN.  
ULTIMATE STRENGTH = 270 KSI  
INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

DECK PROTECTION METHOD:

CLASS QC2 CONCRETE  
EPOXY COATED REINFORCING STEEL  
2 1/2" CONCRETE COVER

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING STRUCTURE PLANS:

PLANS MAY BE EXAMINED BY PROSPECTIVE BIDDERS AT THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 6 OFFICES, 400 E. WILLIAM STREET, DELAWARE, OHIO 43015, PHONE (740) 833-8000.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:  
ITEM 202 - APPROACH SLAB REMOVED, AS PER PLAN:

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP AT SUBSTRUCTURE REMOVAL AND FULL DEPTH AT DECK REMOVAL. REMOVE CONCRETE TO A ROUGH SURFACE AT SUBSTRUCTURE REMOVAL LIMITS. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

PILE DRIVING CONSTRAINTS:

PRIOR TO DRIVING PILES AT THE ABUTMENTS, CONSTRUCT THE BRIDGE APPROACH EMBANKMENT BEHIND THE ABUTMENTS UP AT A 1:1 SLOPE FROM THE TOP OF THE HEEL OF THE FOOTING TO THE SUBGRADE ELEVATION AND FOR A MINIMUM DISTANCE OF 250 FEET BEHIND THE ABUTMENTS. DO NOT BEGIN THE INSTALLATION OF THE ABUTMENT PILES UNTIL AFTER THE ABOVE REQUIRED EMBANKMENT HAS BEEN CONSTRUCTED. AFTER THE FOOTING AND THE BREASTWALL HAVE BEEN CONSTRUCTED, CONSTRUCT THE EMBANKMENT IMMEDIATELY BEHIND THE ABUTMENTS UP TO THE BEAM SEAT ELEVATION AND ON A 1:1 SLOPE UP TO THE SUBGRADE ELEVATION PRIOR TO SETTING THE BEAMS ON THE ABUTMENTS.

PILES TO BEDROCK: DRIVE PILES TO REFUSAL ON BEDROCK. THE DEPARTMENT WILL CONSIDER REFUSAL TO BE OBTAINED WHEN THE PILE PENETRATION IS AN INCH OR LESS AFTER RECEIVING AT LEAST 20 BLOWS FROM THE PILE HAMMER. SELECT THE HAMMER SIZE TO ACHIEVE THE REQUIRED DEPTH TO BEDROCK AND REFUSAL. PROVIDE PILE POINTS TO PROTECT THE TIPS OF THE PROPOSED H-PILES AT ALL SUBSTRUCTURE UNITS.

THE ULTIMATE BEARING VALUE IS 148 TONS PER PILE FOR THE HP10x42 ABUTMENT PILES.

ABUTMENT PILES:

32 REAR ABUTMENT PILES AT 60 FEET, ORDER LENGTH AND  
20 FORWARD ABUTMENT PILES AT 60 FEET, ORDER LENGTH

PILE SPLICES: IN LIEU OF USING FULL PENETRATION BUTT WELDS SPECIFIED IN CMS 507.09 TO SPLICE STEEL H-PILES, THE CONTRACTOR MAY USE A MANUFACTURED H-PILE SPLICER. FURNISH SPLICERS FROM THE FOLLOWING MANUFACTURER:

ASSOCIATED PILE AND FITTING CORPORATION  
8 WOOD HOLLOW RD. PLAZA 1  
PARSIPPANY, NEW JERSEY 07054

INSTALL AND WELD THE PILE SECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN ASSEMBLY PROCEDURE SUPPLIED TO THE ENGINEER BEFORE WELDING IS PERFORMED.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN:

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF THE EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING. NO ADDITIONAL PAYMENT WILL BE MADE FOR PROVIDING AN ALTERNATE DESIGN.

ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN:

GLASS FIBER REINFORCED POLYMER (GFRP) PARAPET STIFFENING BARS SHALL BE INCLUDED IN THIS ITEM. SEE SHEET 34 / 41 FOR QUANTITIES.

ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN:

THIS ITEM SHALL INCLUDE THE BRIDGE DECK, THE END DIAPHRAGMS AT THE ABUTMENTS AND THE EXPANDED POLYSTYRENE FILLER USED TO FORM THE BOTTOM OF THE DIAPHRAGMS.

DECK PLACEMENT ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.43 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103 INCHES.

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65 INCHES (EXCEPT AT THE RIGHT FORWARD DECK OVERHANG EXCEEDING 4'-0", USE 71 INCHES).

UTILITY LINES:

THE UTILITY(IES) SHALL BEAR ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

PROPOSED BRIDGE WORK AND SEQUENCE OF CONSTRUCTION:  
THE WORK TO BE PERFORMED UNDER THIS CONTRACT IS AS SHOWN IN THE CONSTRUCTION PLANS AND, IN GENERAL, INCLUDES THE FOLLOWING:

1. INSTALL PORTABLE CONCRETE BARRIER
2. REMOVE ROADWAY APPROACH PAVEMENT
3. CONSTRUCT COFFERDAMS AND EXCAVATION BRACING
4. SAWCUT DECK SLAB AND REMOVE DECK AND BEAMS
5. SAWCUT PORTIONS OF ABUTMENTS AND REMOVE
6. CONSTRUCT ABUTMENT SUBSTRUCTURE EXTENSIONS
7. CONSTRUCT 4W12 MSE WALL (SEE MSE WALL PLANS FOR DETAILS AND PAYMENT)
8. CONSTRUCT SUPERSTRUCTURE
9. CONSTRUCT APPROACH SLAB AND APPROACH PAVEMENT
10. RELOCATE PORTABLE CONCRETE BARRIER
11. REMOVE REMAINING ROADWAY APPROACH PAVEMENT
12. REMOVE REMAINING DECK SLAB AND BEAMS
13. SAWCUT REMAINING PORTIONS OF ABUTMENT AND REMOVE
14. CONSTRUCT REMAINING ABUTMENT
15. CONSTRUCT REMAINING SUPERSTRUCTURE
16. CONSTRUCT REMAINING APPROACH SLAB AND APPROACH PAVEMENT

ASBESTOS SURVEY:

AN ASBESTOS SURVEY FOR THE BRIDGE STRUCTURE SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS INSPECTION REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ABOVE REGULATORY LIMITS. A COPY OF THE ASBESTOS INSPECTION REPORT FOR THE STRUCTURE IS INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT.

ELECTRONIC SUBMISSION:

SUBMIT A COMPLETED ELECTRONIC NOTIFICATION OF DEMOLITION AND RENOVATION FORM (NDRF), APPLICABLE FEES, AND THE ASBESTOS INSPECTION REPORT TO THE OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. SUBMIT THE NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT USING THE OEPA EBUSINESS CENTER. SUBMIT ONE ELECTRONIC PDF COPY AND ONE HARD COPY OF THE NDRF TO THE ENGINEER. THE ENGINEER WILL PROVIDE ONE COPY TO THE DISTRICT ENVIRONMENTAL STAFF.

HARD COPY SUBMISSION:

THE CONTRACTOR MAY SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT. FOLLOW THE MAILING INSTRUCTIONS ON THE NDRF. CHECK WITH LOCAL HEALTH DEPARTMENT, COLUMBUS PUBLIC HEALTH, 240 PARSONS AVE., COLUMBUS, OHIO 43215, (614) 645-7005, TO DETERMINE IF THEY REQUIRE A HARD COPY SUBMITTAL.

SUBMIT THE COMPLETED NDRF TO OEPA AT LEAST 10 DAYS PRIOR TO DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. RETAIN TWO HARD COPIES OF THE NDRF AND SUBMIT ONE COPY TO THE ENGINEER AND EMAIL ONE COPY TO THE ODOT DISTRICT ENVIRONMENTAL COORDINATOR AT: [janice.gartner@dot.ohio.gov](mailto:janice.gartner@dot.ohio.gov).

BASIS OF PAYMENT:

THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIALS NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

| NUMBER | DESCRIPTION         | REVISED BY | DATE       |
|--------|---------------------|------------|------------|
| 4      | ADDED ASBESTOS NOTE | CAS        | 11-29-2021 |

**BURGESS & NIPLÉ**  
Engineers Architects Planners  
5085 REED ROAD, COLUMBUS, OHIO 43220

DATE 10/17/18  
REVIEWED JCS  
DRAWN AAA  
DESIGNED TTK  
CHECKED CAS

STRUCTURE FILE NUMBER 2504669

**GENERAL NOTES**  
FRA-70-1282R  
RAMP C5 OVER SOUDER AVE.

FRA-70/71-12.68/  
14.86 (PROJ. 4R)  
PID No. 105523

4 / 41  
1231  
1815

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P:\PR5178\18\17372\structures\FRA070\_1282R\Stage 2\Sheets\070\_1282REQ001.dgn 11/22/2021 8:28:53 AM ollbey

| ESTIMATED QUANTITIES |           |      |                                                                                                                                                          |           |           | CALC.   | DATE       | CHK'D         | CHK'D     | DATE           |
|----------------------|-----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|------------|---------------|-----------|----------------|
| ITEM                 | ITEM EXT. | UNIT | DESCRIPTION                                                                                                                                              | ABUTMENTS | SUPERSTR. | JHL     | 12/31/2014 | ABP           | ABP       | 1/5/2015       |
|                      |           |      |                                                                                                                                                          |           |           | GENERAL | TOTAL      | PARTICIPATION |           | SHT. REF.      |
|                      |           |      |                                                                                                                                                          |           |           |         |            |               | 03/NHS/BR |                |
| 202                  | 11203     |      | PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN                                                                                            |           |           |         |            | LS            | LS        | 4, 6, 7, 8/41  |
| 202                  | 22901     | SY   | APPROACH SLAB REMOVED, AS PER PLAN                                                                                                                       |           |           | 320     | 320        | 320           | 320       | 4, 6, 7, 8/41  |
| 202                  | 23500     | SY   | WEARING COURSE REMOVED                                                                                                                                   |           | 519       | 320     | 839        | 839           | 839       |                |
| 503                  | 11101     |      | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                                                                                                           |           |           |         | LS         | LS            | LS        | 4 & 12 - 16/41 |
| 503                  | 21100     | CY   | UNCLASSIFIED EXCAVATION                                                                                                                                  | 395       |           |         | 395        | 395           | 395       |                |
| 505                  | 11100     |      | PILE DRIVING EQUIPMENT MOBILIZATION                                                                                                                      |           |           |         | LS         | LS            | LS        |                |
| 507                  | 00100     | FT   | STEEL PILES HPI0X42, FURNISHED                                                                                                                           | 3,120     |           |         | 3,120      | 3,120         | 3,120     |                |
| 507                  | 00150     | FT   | STEEL PILES HPI0X42, DRIVEN                                                                                                                              | 2,860     |           |         | 2,860      | 2,860         | 2,860     |                |
| 507                  | 93300     | EACH | STEEL POINTS OR SHOES                                                                                                                                    | 52        |           |         | 52         | 52            | 52        |                |
| 509                  | 10001     | LB   | EPOXY COATED REINFORCING STEEL, AS PER PLAN                                                                                                              | 41,233    | 79,646    | 1,109   | 121,988    | 121,988       | 121,988   | 4 / 41         |
| 510                  | 10000     | EACH | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT                                                                                                            | 220       |           |         | 220        | 220           | 220       |                |
| 511                  | 21523     | CY   | CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN                                                                                               |           | 380       |         | 380        | 380           | 380       | 4 / 41         |
| 511                  | 33500     | EACH | SEMI-INTEGRAL DIAPHRAGM GUIDE                                                                                                                            | 2         |           |         | 2          | 2             | 2         |                |
| 511                  | 34450     | CY   | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)                                                                                                     |           | 21        |         | 21         | 21            | 21        |                |
| 511                  | 44112     | CY   | CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING                                                                                            | 289       |           |         | 289        | 289           | 289       |                |
| 511                  | 46512     | CY   | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                                                                                                                   | 163       |           |         | 163        | 163           | 163       |                |
| 511                  | 53010     | CY   | CLASS QC1 CONCRETE, MISC.: MOMENT SLAB AND PARAPET WITH QC/QA                                                                                            |           |           | 8       | 8          | 8             | 8         | 39 / 41        |
| 512                  | 10100     | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                                                                                                            | 587       | 299       | 118     | 1,004      | 1,004         | 1,004     |                |
| 512                  | 33000     | SY   | TYPE 2 WATERPROOFING                                                                                                                                     | 26        | 5         |         | 31         | 31            | 31        |                |
| 515                  | 14080     | EACH | STRAIGHT STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 2, TYPE WF42-49 (67'-6" BEAM LENGTH)                                                   |           | 10        |         | 10         | 10            | 10        |                |
| 515                  | 20001     | EACH | INTERMEDIATE DIAPHRAGMS, AS PER PLAN                                                                                                                     |           | 9         |         | 9          | 9             | 9         | 25 / 41        |
| 516                  | 10010     | FT   | ARMORLESS PREFORMED JOINT SEAL                                                                                                                           |           |           | 221     | 221        | 221           | 221       | 36 - 38 / 41   |
| 516                  | 13600     | SF   | 1" PREFORMED EXPANSION JOINT FILLER                                                                                                                      | 250       |           | 15      | 265        | 265           | 265       |                |
| 516                  | 13900     | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                                                                                                      |           | 81        | 67      | 148        | 148           | 148       |                |
| 516                  | 14020     | FT   | SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL                                                                                                              | 241       |           |         | 241        | 241           | 241       |                |
| 516                  | 44301     | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 1'-8" x 1'-2" x 4 1/2", LOAD PLATE: 1'-9" x 1'-3" x 1 1/2") |           | 20        |         | 20         | 20            | 20        | 35 / 41        |
| 518                  | 21200     | CY   | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                                                                   | 241       |           |         | 241        | 241           | 241       |                |
| 518                  | 40000     | FT   | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                                                                    | 110       |           |         | 110        | 110           | 110       |                |
| 518                  | 40010     | FT   | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS                                                                                            | 10        |           |         | 10         | 10            | 10        |                |
| 526                  | 30011     | SY   | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN                                                                                       |           |           | 729     | 729        | 729           | 729       | 36 & 37 / 41   |
| 526                  | 90030     | FT   | TYPE C INSTALLATION                                                                                                                                      |           |           | 221     | 221        | 221           | 221       |                |

| NUMBER | DESCRIPTION                  | REVISED BY | DATE       |
|--------|------------------------------|------------|------------|
| 4      | FUNDING PARTICIPATION CHANGE | CAS        | 11-29-2021 |

**ESTIMATED QUANTITIES**  
FRA-70-1282R  
RAMP C5 OVER SOUDER AVE.

**BURGESS & NIPLÉ**  
Engineers ■ Architects ■ Planners  
5085 REED ROAD, COLUMBUS, OHIO 43220

DATE: 10/17/18  
REVIEWED: CAS  
DRAWN: JHL  
DESIGNED: JHL  
STRUCTURE FILE NUMBER: 2304669

FRA-70/71-12.68 /  
14.86 (PROJ. 4R)  
PID No. 105523

5 / 41

1232  
1815

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| ESTIMATED QUANTITIES |           |        |                            |      |                                                                                                               |       | CALC'D | DATE       | CHK'D | DATE          |
|----------------------|-----------|--------|----------------------------|------|---------------------------------------------------------------------------------------------------------------|-------|--------|------------|-------|---------------|
| ITEM                 | EXTENSION | TOTAL  | PARTICIPATION<br>02/NHS/BR | UNIT | DESCRIPTION                                                                                                   | ABUT. | SJA    | 12/10/2014 | XAC   | 12/23/2014    |
|                      |           |        |                            |      |                                                                                                               |       | PIERS  | SUPER.     | GEN.  | SHEET REF.    |
| 202                  | 11201     | LUMP   | LUMP                       |      | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN                                                                    |       |        |            |       | 10 / 64       |
| 202                  | 22900     | 52     | 52                         | SY   | APPROACH SLAB REMOVED                                                                                         |       |        |            | 52    |               |
| 202                  | 98100     | 1      | 1                          | EACH | REMOVAL MISC.: VERTICAL PILE                                                                                  |       |        |            | 1     | 6 / 64        |
| 202                  | 98100     | 10     | 10                         | EACH | REMOVAL MISC.: BATTERED PILE                                                                                  |       |        |            | 10    | 6 / 64        |
| 503                  | 11100     | LUMP   | LUMP                       |      | COFFERDAMS AND EXCAVATION BRACING                                                                             |       |        |            |       |               |
| 503                  | 21100     | 522    | 522                        | CY   | UNCLASSIFIED EXCAVATION                                                                                       | 82    | 440    |            |       |               |
| 505                  | 11100     | LUMP   | LUMP                       |      | PILE DRIVING EQUIPMENT MOBILIZATION                                                                           |       |        |            |       |               |
| 507                  | 00100     | 1995   | 1995                       | FT   | STEEL PILES HP10X42, FURNISHED                                                                                | 1995  |        |            |       |               |
| 507                  | 00150     | 1890   | 1890                       | FT   | STEEL PILES HP10X42, DRIVEN                                                                                   | 1890  |        |            |       |               |
| 507                  | 00300     | 3475   | 3475                       | FT   | STEEL PILES HP14X73, FURNISHED                                                                                |       | 3475   |            |       |               |
| 507                  | 00350     | 3210   | 3210                       | FT   | STEEL PILES HP14X73, DRIVEN                                                                                   |       | 3210   |            |       |               |
| 507                  | 93300     | 74     | 74                         | EACH | STEEL POINTS OR SHOES                                                                                         | 21    | 53     |            |       |               |
| 509                  | 10001     | 492817 | 492817                     | LB   | EPOXY COATED REINFORCING STEEL, AS PER PLAN                                                                   | 14126 | 146718 | 331973     |       | 6, 61-63 / 64 |
| 511                  | 21523     | 1143   | 1143                       | CY   | CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN                                                    |       |        | 1143       |       | 6 / 64        |
| 511                  | 34450     | 298    | 298                        | CY   | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)                                                          |       |        | 298        |       |               |
| 511                  | 41012     | 45     | 45                         | CY   | CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS (CAP AND COLUMN)                                           |       | 45     |            |       |               |
| 511                  | 42012     | 495    | 495                        | CY   | CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS (T-TYPE)                                                   |       | 495    |            |       |               |
| 511                  | 44112     | 48     | 48                         | CY   | CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING                                                 | 48    |        |            |       |               |
| 511                  | 45602     | 347    | 347                        | CY   | CLASS QC4 MASS CONCRETE, SUBSTRUCTURE WITH QC/QA                                                              | 76    | 271    |            |       |               |
| 511                  | 46512     | 324    | 324                        | CY   | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                                                                        | 69    | 255    |            |       |               |
| 512                  | 10100     | 6206   | 6206                       | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                                                                 | 99    | 1361   | 4746       |       |               |
| 513                  | 95030     | 2      | 2                          | EACH | STRUCTURAL STEEL, MISC.: PARAPET SLIDING PLATE JOINT                                                          |       |        | 2          |       |               |
| 515                  | 16000     | 32     | 32                         | EACH | PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, MISC.: LEVEL 3, TYPE WF78-49                                      |       |        | 32         |       |               |
| 515                  | 20000     | 72     | 72                         | EACH | INTERMEDIATE DIAPHRAGMS                                                                                       |       |        | 72         |       |               |
| SPECIAL              | 51612400  | 28     | 28                         | FT   | MODULAR EXPANSION JOINT                                                                                       |       |        | 28         |       | 7 / 64        |
| 516                  | 13600     | 36     | 36                         | SF   | 1" PREFORMED EXPANSION JOINT FILLER                                                                           |       | 36     |            |       |               |
| 516                  | 13900     | 28     | 28                         | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                                                           |       | 28     |            |       |               |
| 516                  | 44100     | 8      | 8                          | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (9" x2'-8"x2 1/4")                      |       |        | 8          |       |               |
| 516                  | 44100     | 8      | 8                          | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (10" x2'-10"x2 1/4")                    |       |        | 8          |       |               |
| 516                  | 44101     | 4      | 4                          | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (9"x2'-10"x2 1/2") (PTFE)  |       |        | 4          |       | 8 / 64        |
| 516                  | 44101     | 12     | 12                         | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (10"x2'-10"x2 1/2") (PTFE) |       |        | 12         |       | 8 / 64        |
| 516                  | 44101     | 8      | 8                          | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x2'-10"x2 1/2") (PTFE) |       |        | 8          |       | 8 / 64        |
| 516                  | 44200     | 8      | 8                          | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (10"x2'-8"x3")                          |       |        | 8          |       |               |
| 516                  | 44200     | 16     | 16                         | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-1"x2'-8"x4")                        |       |        | 16         |       |               |
| 518                  | 12300     | 1      | 1                          | EACH | SCUPPERS, INCLUDING SUPPORTS                                                                                  |       |        | 1          |       |               |
| 518                  | 21200     | 66     | 66                         | CY   | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                        | 66    |        |            |       |               |
| 518                  | 40000     | 57     | 57                         | FT   | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                         | 57    |        |            |       |               |
| 518                  | 40010     | 15     | 15                         | FT   | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS                                                 | 15    |        |            |       |               |
| 524                  | 94904     | 16     | 16                         | FT   | DRILLED SHAFTS, 48" DIAMETER, INTO BEDROCK                                                                    |       | 16     |            |       |               |
| 524                  | 94906     | 268    | 268                        | FT   | DRILLED SHAFTS, 54" DIAMETER, ABOVE BEDROCK                                                                   |       | 268    |            |       |               |
| 524                  | 95100     | 4      | 4                          | EACH | DRILLED SHAFTS, MISC.: THERMAL INTEGRITY PROFILER (T.I.P.) WIRE CABLE TESTING OF DRILLED SHAFTS               |       | 4      |            |       | 7 / 64        |
| 526                  | 30010     | 94     | 94                         | SY   | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17")                                                         |       |        |            | 94    |               |
| 526                  | 90010     | 29     | 29                         | FT   | TYPE A INSTALLATION                                                                                           |       |        |            | 29    |               |
| 601                  | 21000     | 249    | 249                        | SY   | CONCRETE SLOPE PROTECTION                                                                                     |       |        |            | 249   |               |

| PIER NO. | CAP | STEM/COLUMNS |
|----------|-----|--------------|
| 1        | C   | B            |
| 2        | C   | B            |
| 3        | C   | B            |
| 4        | C   | B            |
| 5        | C   | B            |
| 6        | C   | A            |
| 7        | C   | A            |

A = ITEM 41012 (CAP AND COLUMN)  
 B = ITEM 42012 (T-TYPE)  
 C = ITEM 45602 (MASS CONCRETE)

| NUMBER | DESCRIPTION                  | REVISED BY | DATE       |
|--------|------------------------------|------------|------------|
| 4      | FUNDING PARTICIPATION CHANGE | CAS        | 11-29-2021 |

**BURGESS & NIPLE**  
 Engineers - Architects - Planners  
 5085 REED ROAD, COLUMBUS, OHIO 43220

REVIEWED DATE 10/18/18  
 CAS 10/18/18  
 STRUCTURE FILE NUMBER 2570014

DRAWN 444  
 REVISED

DESIGNED SJA  
 CHECKED XAC

ESTIMATED QUANTITIES  
 FRA-70-1301A  
 RAMP C5 OVER SR 315

FRA-70/71-12.68/  
 14.86 (PROJ. 4R)  
 PID No. 105523

9 / 64

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 1815

3486-E

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ESTIMATED QUANTITIES

| ITEM | ITEM EXT. | UNIT | DESCRIPTION                                                                                                                 | ABUTMENT | PIER   | SUPERSTR. | CALC.   | DATE     | CHECKED                    | DATE       |
|------|-----------|------|-----------------------------------------------------------------------------------------------------------------------------|----------|--------|-----------|---------|----------|----------------------------|------------|
|      |           |      |                                                                                                                             |          |        |           | JDH     | 3/6/2015 | BEN                        | 3/24/2015  |
|      |           |      |                                                                                                                             |          |        |           | GENERAL | TOTAL    | PARTICIPATION<br>02/NHS/BR | SHEET REF. |
| 505  | 11100     |      | PILE DRIVING EQUIPMENT MOBILIZATION                                                                                         | LS       |        |           |         | LS       | LS                         |            |
| 507  | 00100     | FT   | STEEL PILES HPI0X42, FURNISHED                                                                                              | 800      |        |           |         | 800      | 800                        |            |
| 507  | 00150     | FT   | STEEL PILES HPI0X42, DRIVEN                                                                                                 | 760      |        |           |         | 760      | 760                        |            |
| 507  | 93300     | EACH | STEEL POINTS OR SHOES                                                                                                       | 8        |        |           |         | 8        | 8                          |            |
| 509  | 10001     | LB   | EPOXY COATED REINFORCING STEEL, AS PER PLAN                                                                                 | 6,094    | 11,434 | 70,330    |         | 87,858   | 87,858                     | 3/31       |
| 510  | 10000     | EACH | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT                                                                               |          | 16     |           |         | 16       | 16                         |            |
| 511  | 21523     | CY   | CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN                                                                  |          |        | 194       |         | 194      | 194                        | 3/31       |
| 511  | 34450     | CY   | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)                                                                        |          |        | 54        |         | 54       | 54                         |            |
| 511  | 41510     | CY   | CLASS QC1 CONCRETE, PIER ABOVE FOOTINGS                                                                                     |          | 30     |           |         | 30       | 30                         |            |
| 511  | 44110     | CY   | CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING                                                                          | 39       |        |           |         | 39       | 39                         |            |
| 511  | 45600     | CY   | CLASS QC4 MASS CONCRETE, SUBSTRUCTURE                                                                                       |          | 32     |           |         | 32       | 32                         |            |
| 511  | 46510     | CY   | CLASS QC1 CONCRETE, FOOTING                                                                                                 | 25       |        |           |         | 25       | 25                         |            |
| 512  | 10100     | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                                                                               | 77       |        | 712       | 52      | 841      | 841                        |            |
| 512  | 33000     | SY   | TYPE 2 WATERPROOFING                                                                                                        | 72       |        |           |         | 72       | 72                         |            |
| 513  | 95030     | EACH | STRUCTURAL STEEL, MISC.: PARAPET SLIDING PLATE JOINT                                                                        |          |        | 2         |         | 2        | 2                          | 26/31      |
| 515  | 15020     | EACH | DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE 4<br>(BEAM LENGTH VARIES 67'-3 7/8" TO 103'-2 5/8") |          |        | 8         |         | 8        | 8                          | 12/31      |
| 515  | 20001     | EACH | INTERMEDIATE DIAPHRAGMS, AS PER PLAN                                                                                        |          |        | 18        |         | 18       | 32                         |            |
| 516  | 11210     | FT   | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL                                                                 |          |        | 32        |         | 32       | 44                         |            |
| 516  | 13900     | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                                                                         | 44       |        |           |         | 44       | 8                          | 27/31      |
| 516  | 44101     | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 16.5" x 11.5" x 2.25")         |          |        | 8         |         | 8        | 8                          |            |
| 516  | 44201     | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 16" x 15" x 4")                |          |        | 8         |         | 8        | 8                          | 27/31      |
| 518  | 21200     | CY   | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                                      | 23       |        |           |         | 23       | 23                         |            |
| 518  | 40000     | FT   | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                                       | 32       |        |           |         | 32       | 32                         |            |
| 524  | 94908     | FT   | DRILLED SHAFTS, 54" DIAMETER, INTO BEDROCK                                                                                  |          | 9      |           |         | 9        | 9                          |            |
| 524  | 94915     | FT   | DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK, AS PER PLAN                                                                    |          | 136    |           |         | 136      | 136                        | 3/31       |
| 524  | 95100     | EACH | DRILLED SHAFTS, MISC.: THERMAL INTEGRITY PROFILER (T.I.P.) WIRE CABLE TESTING OF DRILLED SHAFTS                             |          | 2      |           |         | 2        | 2                          | 3/31       |
| 526  | 30011     | SY   | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN                                                          |          |        |           | 105     | 105      | 105                        | 3/31       |
| 526  | 90010     | FT   | TYPE A INSTALLATION                                                                                                         |          |        |           | 32      | 32       | 32                         |            |

| NUMBER | DESCRIPTION                  | REVISED BY | DATE       |
|--------|------------------------------|------------|------------|
| 4      | FUNDING PARTICIPATION CHANGE | CAS        | 11-29-2021 |

**BURGESS & NIPLÉ**  
Engineers - Architects - Planners  
5085 REED ROAD, COLUMBUS, OHIO 43220

DATE: 10/18/18  
REVIEWED: CAS  
DRAWN: AAA  
DESIGNED: BES  
CHECKED: MAB  
STRUCTURE FILE NUMBER: 2510013

ESTIMATED QUANTITIES  
BRIDGE NO. FRA-71-1518A  
RAMP A5 OVER THE SCIOTO RIVER

FRA-70/71-12.68 /  
14.86 (PROJ. 4R)  
PID No. 105523

4 / 31

1336  
1815

**ESTIMATED QUANTITIES**

CALCULATED: RFV DATE: 5-29-19  
CHECKED: TJW DATE: 5-30-19

| ITEM    | EXT.     | TOTAL<br>Q2/NHS/B<br>R | UNITS | DESCRIPTION                                                                                                | ABUTMENT | PIER    | SUPER.    | GENERAL | A.P.P.<br>REFERENCE<br>SHEET NO. |
|---------|----------|------------------------|-------|------------------------------------------------------------------------------------------------------------|----------|---------|-----------|---------|----------------------------------|
| 503     | 11100    | LS                     |       | COFFERDAMS AND EXCAVATION BRACING                                                                          |          |         |           |         |                                  |
| 503     | 21100    | 767                    | CY    | UNCLASSIFIED EXCAVATION                                                                                    | 767      |         |           |         |                                  |
| 505     | 11100    | LS                     |       | PILE DRIVING EQUIPMENT MOBILIZATION                                                                        |          |         |           |         |                                  |
| 507     | 00100    | 1,890                  | FT    | STEEL PILES HPI0X42, FURNISHED                                                                             | 1,890    |         |           |         |                                  |
| 507     | 00150    | 1,755                  | FT    | STEEL PILES HPI0X42, DRIVEN                                                                                | 1,755    |         |           |         |                                  |
| 507     | 93300    | 27                     | EACH  | STEEL POINTS OR SHOES                                                                                      | 27       |         |           |         |                                  |
| 509     | 10001    | 895,729                | LB    | EPOXY COATED REINFORCING STEEL, AS PER PLAN                                                                | 23,664   | 216,790 | 655,275   |         | 8                                |
| 511     | 34447    | 2,274                  | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN                                                    |          |         | 2,274     |         | 8                                |
| 511     | 34450    | 326                    | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)                                                       |          |         | 326       |         |                                  |
| 511     | 43512    | 289                    | CY    | CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING                                                  | 289      |         |           |         |                                  |
| 511     | 45602    | 1,236                  | CY    | CLASS QC4 MASS CONCRETE, SUBSTRUCTURE WITH QC/QA                                                           |          | 1236    |           |         |                                  |
| 512     | 10100    | 4,775                  | SY    | SEALING CONCRETE SURFACES (EPOXY-URETHANE)                                                                 | 222      | 2309    | 2244      |         |                                  |
| 513     | 10300    | 2,355,836              | LB    | STRUCTURAL STEEL MEMBERS, LEVEL 5                                                                          |          |         | 2,355,836 |         |                                  |
| 513     | 10401    | 1,495,251              | LB    | STRUCTURAL STEEL MEMBERS, HYBRID GIRDER, LEVEL SIX (6) FABRICATION, AS PER PLAN                            |          |         | 1,495,251 |         | 8                                |
| 513     | 20000    | 27,788                 | EACH  | WELDED STUD SHEAR CONNECTORS                                                                               |          |         | 27,788    |         |                                  |
| 513     | 95030    | 6                      | EACH  | STRUCTURAL STEEL, MISC.: PARAPET SLIDING PLATE JOINT                                                       |          |         | 6         |         | 8                                |
| 514     | 00060    | 3,476                  | SF    | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT                                                         |          |         | 3,476     |         |                                  |
| 514     | 00066    | 3,476                  | SF    | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT                                                               |          |         | 3,476     |         |                                  |
| 514     | 10000    | 3                      | EACH  | FINAL INSPECTION REPAIR                                                                                    |          |         | 3         |         |                                  |
| 516     | 12400    | 163                    | FT    | SPECIAL - MODULAR EXPANSION JOINT                                                                          |          |         | 163       |         | 8                                |
| 516     | 44101    | 10                     | EACH  | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-5" DIA.) (PTFE)     |          |         | 10        |         | 10                               |
| 516     | 44101    | 6                      | EACH  | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-6 1/2" DIA.) (PTFE) |          |         | 6         |         | 10                               |
| 518     | 12301    | 8                      | EACH  | SCUPPER, INCLUDING SUPPORTS, AS PER PLAN                                                                   |          |         | 8         |         | 64                               |
| 518     | 21200    | 81                     | CY    | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                     | 81       |         |           |         |                                  |
| 518     | 40000    | 100                    | FT    | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                      | 100      |         |           |         |                                  |
| 518     | 40010    | 30                     | FT    | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS                                              | 30       |         |           |         |                                  |
| 518     | 51201    | 60                     | FT    | PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN (DIAMETER = 10")                                           |          | 60      |           |         | 65                               |
| 518     | 60031    | 15                     | FT    | PIPE HORIZONTAL CONDUCTOR, AS PER PLAN                                                                     |          |         | 15        |         | 66                               |
| 524     | 94919    | 107                    | FT    | DRILLED SHAFTS, 60" DIAMETER, INTO BEDROCK, AS PER PLAN                                                    |          | 107     |           |         | 11                               |
| 524     | 94931    | 814                    | FT    | DRILLED SHAFTS, 66" DIAMETER, ABOVE BEDROCK, AS PER PLAN                                                   |          | 814     |           |         | 11                               |
| 524     | 94931    | 235                    | FT    | DRILLED SHAFTS, 66" DIAMETER, ABOVE BEDROCK, AS PER PLAN, PIER 4                                           |          | 235     |           |         | 11                               |
| 524     | 94935    | 36                     | FT    | DRILLED SHAFTS, 66" DIAMETER, INTO BEDROCK, AS PER PLAN                                                    |          | 36      |           |         | 11                               |
| 524     | 94947    | 182                    | FT    | DRILLED SHAFTS, 72" DIAMETER, ABOVE BEDROCK, AS PER PLAN                                                   |          | 182     |           |         | 11                               |
| 526     | 30010    | 187                    | SY    | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17")                                                      |          |         |           | 187     |                                  |
| 526     | 90010    | 85                     | FT    | TYPE A INSTALLATION                                                                                        |          |         |           | 85      |                                  |
| 601     | 21000    | 870                    | SY    | CONCRETE SLOPE PROTECTION                                                                                  |          |         |           | 870     |                                  |
| 601     | 32104    | 1,190                  | CY    | ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC                                                     |          |         |           | 1190    |                                  |
| 869     | 00101    | 28                     | EACH  | HIGH LOAD MULTI-ROTATIONAL (HLMR) BEARINGS, AS PER PLAN                                                    |          |         | 28        |         | 11                               |
| SPECIAL | 69098100 | 181                    | FT    | COVERED WALKWAY SYSTEM                                                                                     |          |         |           | 181     | 7                                |



DESIGN AGENCY  
GPD GROUP  
1801 Watermark Drive, Suite 210, Columbus, Ohio 43215 614-210-0731  
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REVIEWED DATE 9-6-19  
DGN STRUCTURE FILE NUMBER 2510015

DRAWN MLS REVISIONS  
DESIGNED TJW CHECKED RHC

ESTIMATED QUANTITIES  
BRIDGE NO. FRA-70-1321A  
RAMP A5/B5/C5 OVER THE SCIOTO RIVER

FRA-70/71-12.68/14.86  
PID No. 105523

12/99

1375  
1815



| NO. | DESCRIPTION      | REV. BY | DATE       | NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|------------------|---------|------------|-----|---------------------|---------|------------|
| 2   | REVISED QUANTITY | MOJ     | 11-12-2021 | 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |

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| ESTIMATED QUANTITIES |       |       |               |           |      |                                                               |
|----------------------|-------|-------|---------------|-----------|------|---------------------------------------------------------------|
| ITEM                 | EXT.  | TOTAL | PARTICIPATION |           | UNIT | DESCRIPTION                                                   |
|                      |       |       | 01/NHS/PV     | 01/NHS/PV |      |                                                               |
| 202                  | 11203 | LS    | LS            | LS        |      | PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN |
| 202                  | 22900 | 187   | 82            | 105       | SY   | APPROACH SLAB REMOVED                                         |

| NO. | DESCRIPTION                               | REV. BY | DATE       |
|-----|-------------------------------------------|---------|------------|
| 3   | UPDATED NOTE                              | CWL     | 11-19-2021 |
| 4   | FUNDING CODE CHANGE / ADDED ASBESTOS NOTE | CWL     | 11-29-2021 |

**LEGEND:**

-  PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
-  APPROACH SLAB REMOVED



**NOTES:**

1. SEE ROADWAY PLANS FOR FINAL GRADING.

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN**

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE ENTIRE STRUCTURE NOT ALREADY REMOVED UNDER SEPARATE ITEMS EXCEPT THE LEFT FORWARD WINGWALL (LABELED "RETAINING WALL C" IN THE EXISTING PLANS), THE EXISTING MEDIAN BARRIER AND EXISTING WB-70 CONCRETE BARRIER, WHICH ARE TO REMAIN. CONTRACTOR SHALL USE CAUTION DURING REMOVAL OF THE STRUCTURE TO KEEP THE EXISTING MEDIAN BARRIER AND EXISTING WB-70 CONCRETE BARRIER INTACT WITHOUT UNNECESSARY DAMAGE. THE EXISTING VERTICAL EXPANSION JOINT (FILLED WITH 1" P-E.J.F.) BETWEEN THE WINGWALL AND ABUTMENT IS TO SERVE AS THE REMOVAL LIMIT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE EXISTING PLANS, PERFORMING THE EXISTING STRUCTURE VERIFICATION, AND DETERMINING REMOVAL EFFORTS. EXISTING PLANS MAY BE EXAMINED BY PROSPECTIVE BIDDERS AT THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 6 OFFICES, 400 E. WILLIAM ST., DELEWARE, OHIO 43015 (PHONE 740-833-8000). ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CMS 202 AND CMS 501.05.

**ASBESTOS SURVEY**

AN ASBESTOS SURVEY FOR THE BRIDGE STRUCTURE SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS INSPECTION REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ABOVE REGULATORY LIMITS. A COPY OF THE ASBESTOS INSPECTION REPORT FOR THE STRUCTURE IS INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT.

**ELECTRONIC SUBMISSION:**

SUBMIT A COMPLETED ELECTRONIC NOTIFICATION OF DEMOLITION AND RENOVATION FORM (NDRF), APPLICABLE FEES, AND THE ASBESTOS INSPECTION REPORT TO THE OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. SUBMIT THE NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT USING THE OEPA EBUSINESS CENTER. SUBMIT ONE ELECTRONIC PDF COPY AND ONE HARD COPY OF THE NDRF TO THE ENGINEER. THE ENGINEER WILL PROVIDE ONE COPY TO THE DISTRICT ENVIRONMENTAL STAFF.

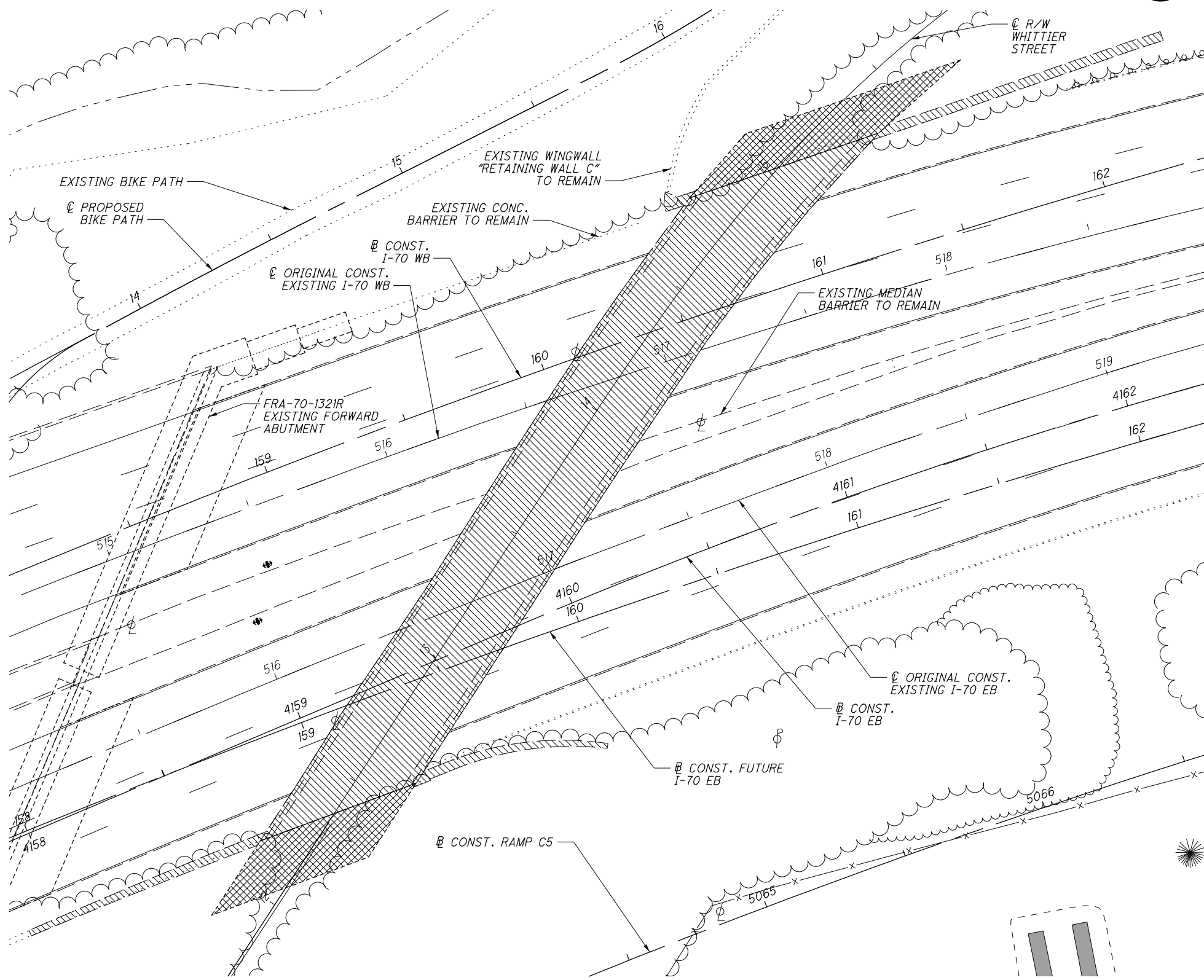
**HARD COPY SUBMISSION:**

THE CONTRACTOR MAY SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT. FOLLOW THE MAILING INSTRUCTIONS ON THE NDRF. CHECK WITH LOCAL HEALTH DEPARTMENT (COLUMBUS PUBLIC HEALTH, 240 PARSONS AVE. COLUMBUS, OH 43215, 614-645-7005) TO DETERMINE IF THEY REQUIRE A HARD COPY SUBMITAL.

SUBMIT THE COMPLETED NDRF TO OEPA AT LEAST 10 DAYS PRIOR TO DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. RETAIN TWO HARD COPIES OF THE NDRF AND SUBMIT ONE COPY TO THE ENGINEER AND EMAIL ONE COPY TO THE ODOT DISTRICT ENVIRONMENTAL COORDINATOR AT: Janice.Gartner@dot.ohio.gov

**BASIS OF PAYMENT:**

THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIALS NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.



**PLAN**

**EXISTING STRUCTURE**

|                              |                                                                                                            |
|------------------------------|------------------------------------------------------------------------------------------------------------|
| TYPE:                        | TWO SPAN CONTINUOUS STEEL GIRDER BRIDGE WITH NON-COMPOSITE REINFORCED CONCRETE DECK AND SUBSTRUCTURE UNITS |
| SPANS:                       | 132'-0"±, 132'-0"± C/C BEARINGS MEASURED ALONG ORIGINAL SURVEY                                             |
| ROADWAY:                     | 28'-0" F/F OF 2'-0" SAFETY CURBS<br>34'-0" O/O DECK                                                        |
| SKEW:                        | 55°0'0" RF REAR ABUTMENT AND PIER<br>52°0'0" RF FORWARD ABUTMENT<br>MEASURED TO ORIGINAL REFERENCE TANGENT |
| LOADING:                     | HS20-44                                                                                                    |
| DATE BUILT:                  | 1975                                                                                                       |
| STRUCTURE FILE NUMBER (SFN): | 2504464                                                                                                    |
| APPROACH SLABS:              | 30'-0" LONG, AS-1-69                                                                                       |
| WEARING SURFACE:             | 1" MONOLITHIC CONCRETE                                                                                     |
| DISPOSITION:                 | TO BE REMOVED                                                                                              |

DESIGN AGENCY: **GPD GROUP**  
 1801 Watermark Drive, Suite 150, Columbus, Ohio 43215 614.210.0731  
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| DESIGNED | DRAWN   | REVIEWED              | DATE    |
|----------|---------|-----------------------|---------|
| MOJ      | MOJ     | TJW                   | 9-6-19  |
| CHECKED  | REVISED | STRUCTURE FILE NUMBER | 2504464 |
| DGN      |         |                       |         |

**REMOVAL NOTES AND ESTIMATED QUANTITIES**  
 BRIDGE NO. FRA-70-1343  
 WHITTIER STREET OVER I-70/77

**FRA-70/71-12.68 / 14.86**  
**PID No. 105523**

1 / 1  
 1462A  
 1815

01:2012:20120418 VFR1:105523 STRUCTURES FRA070\_1343 SHEETS 072\_1343SMB01.DGN  
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**DESIGN STRESSES**

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI  
(CULVERT, WINGWALLS & FOOTINGS)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

**FOUNDATION BEARING RESISTANCE**

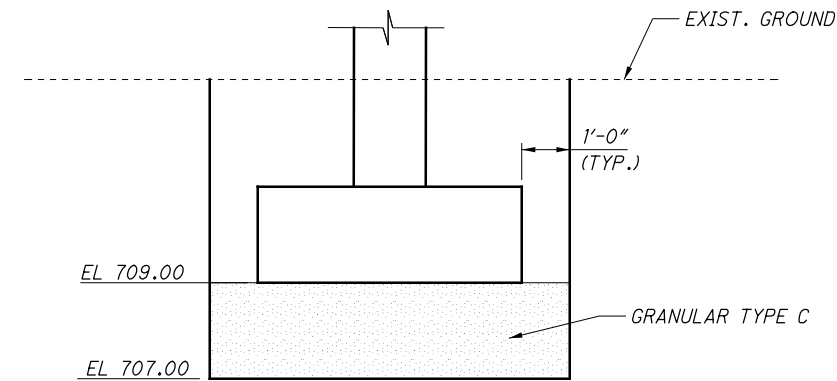
THE FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 5.0 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 8.7 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 19.6 KIPS PER SQUARE FOOT.

**ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN**

ALL WORK SHALL BE AS PER ITEM 503, EXCEPT THE LIMITS OF EXCAVATION SHALL BE PER THE DETAILS ON THIS SHEET. BACKFILL TO THE BOTTOM OF FOOTING ELEVATION WITH GRANULAR MATERIAL TYPE C.

CALCULATED: RFV      DATE: 2/27/19  
CHECKED: DJC      DATE: 2/28/19

| ESTIMATED QUANTITIES |       |        |                            |      |                                                                         |            |
|----------------------|-------|--------|----------------------------|------|-------------------------------------------------------------------------|------------|
| ITEM                 | EXT.  | TOTAL  | PARTICIPATION<br>02/NHS/BR | UNIT | DESCRIPTION                                                             | SHEET REF. |
| 203                  | 35120 | 91     | 91                         | CY   | GRANULAR MATERIAL, TYPE C                                               |            |
| 503                  | 21101 | 293    | 293                        | CY   | UNCLASSIFIED EXCAVATION, AS PER PLAN                                    | 1          |
| 509                  | 10000 | 65,042 | 65,042                     | LB   | EPOXY COATED REINFORCING STEEL                                          |            |
| 511                  | 46012 | 52     | 52                         | CY   | CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING |            |
| 511                  | 46512 | 68     | 68                         | CY   | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                                  |            |
| 511                  | 47012 | 158    | 158                        | CY   | CLASS QC1 CONCRETE WITH QC/QA, CULVERT                                  |            |
| 512                  | 10100 | 111    | 111                        | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                           |            |
| 512                  | 33000 | 270    | 270                        | SY   | TYPE 2 WATERPROOFING                                                    |            |
| 516                  | 13600 | 65     | 65                         | SF   | 1" PREFORMED EXPANSION JOINT FILLER                                     |            |
| 518                  | 21200 | 62     | 62                         | CY   | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                  |            |
| 518                  | 40000 | 60     | 60                         | FT   | 6" PERFORATED CORRUGATED PLASTIC PIPE                                   |            |
| 518                  | 40010 | 20     | 20                         | FT   | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS           |            |



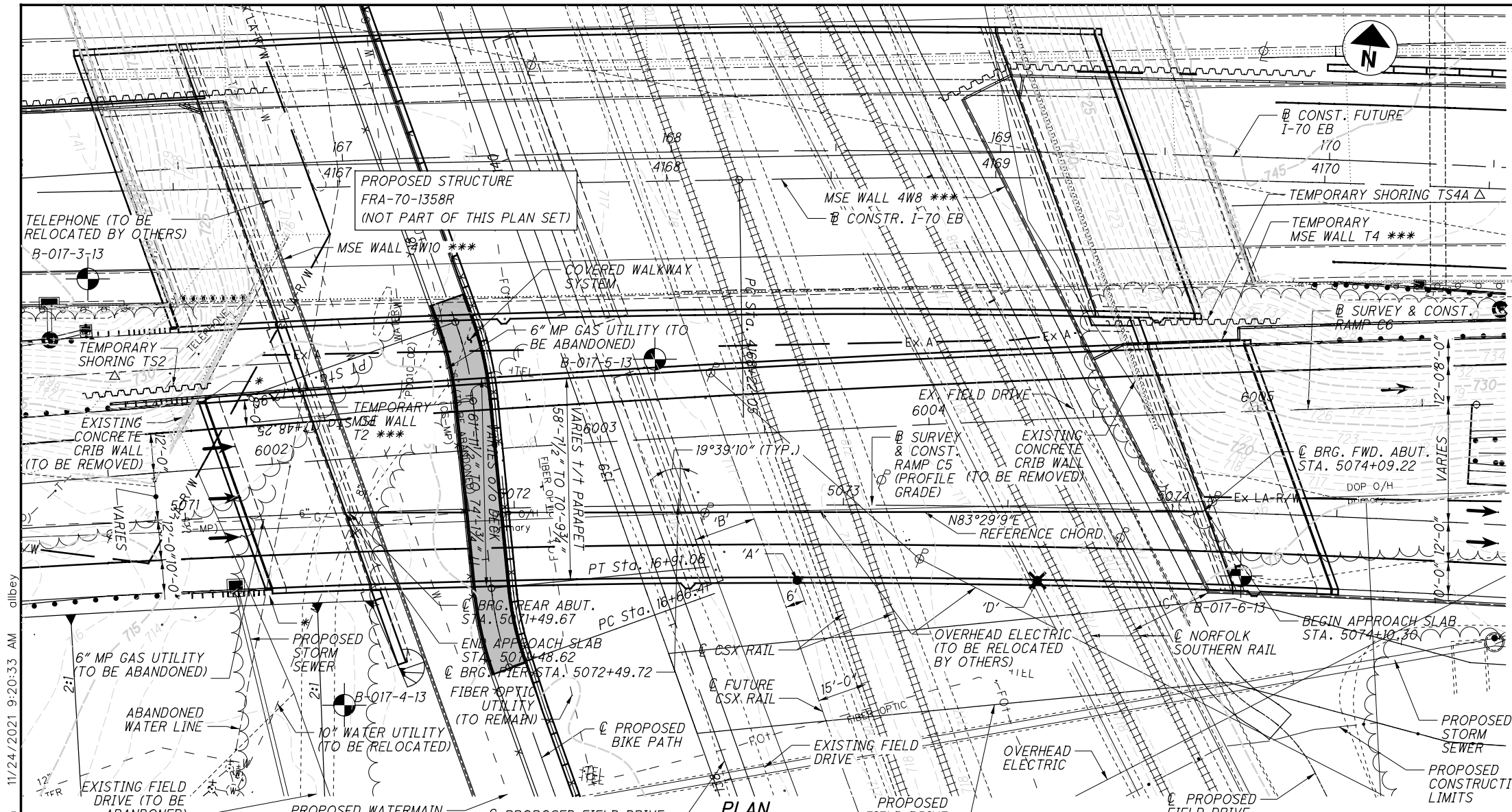
**FOOTING EXCAVATION DETAIL**

**ABBREVIATIONS**

|            |                    |            |                                        |
|------------|--------------------|------------|----------------------------------------|
| ABUT.      | ABUTMENT           | N.P.C.P.P. | NON-PERFORATED CORRUGATED PLASTIC PIPE |
| ADDIT.     | ADDITIONAL         | N.S.       | NEAR SIDE                              |
| A.P.P.     | AS PER PLAN        | P.C.P.P.   | PERFORATED CORRUGATED PLASTIC PIPE     |
| BOT.       | BOTTOM             | P.E.J.F.   | PREFORMED EXPANSION JOINT FILLER       |
| BRG.       | BEARING            | R.A.       | REAR ABUTMENT                          |
| B.S.       | BOTH SIDES         | SER.       | SERIES                                 |
| BTWN.      | BETWEEN            | SHT.       | SHEET                                  |
| CLR.       | CLEAR              | SPA.       | SPACES OR SPACED                       |
| CONST. JT. | CONSTRUCTION JOINT | SPL.       | SPLICE                                 |
| DIA.       | DIAMETER           | SR         | SERIES (REINFORCING STEEL LIST SHEETS) |
| DIM.       | DIMENSION          | STD.       | STANDARD                               |
| D.N.D.     | DO NOT DISTURB     | T.B.R.     | TO BE REMOVED                          |
| DWG.       | DRAWING            | TYP.       | TYPICAL                                |
| EA.        | EACH               |            |                                        |
| EQ.        | EQUAL OR EQUALLY   |            |                                        |
| F.A.       | FORWARD ABUTMENT   |            |                                        |
| FRWD.      | FORWARD            |            |                                        |
| F.S.       | FAR SIDE           |            |                                        |
| MIN.       | MINIMUM            |            |                                        |
| NO.        | NUMBER             |            |                                        |

| NO. | DESCRIPTION         | REV. BY | DATE       |
|-----|---------------------|---------|------------|
| 4   | FUNDING CODE CHANGE | CWL     | 11-29-2021 |





### BENCHMARK DATA

CP4, CONCRETE MONUMENT WITH 2" ALUMINUM CAP  
 "AZIMUTH MARK" APPROXIMATELY ON THE WEST  
 SIDE OF THE CUL-DE-SAC AT THE WEST END OF  
 W. MOUND ST. ELEVATION 714.392  
 NORTHING 712059.179 EASTING 1826322.295

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN  
 SHEET 17 OF 1815

### NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE.  
 ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:  
 2015 ADT = 31,130 2015 ADTT = 3,269  
 2035 ADT = 32,510 2035 ADTT = 3,414  
 DIRECTIONAL DISTRIBUTION = 100%

### HORIZONTAL CURVE DATA

| RAMP C5                           | RAMP C6                           |
|-----------------------------------|-----------------------------------|
| P.I. = STA. 5073+05.04            | P.I. = STA. 6002+94.69            |
| $\Delta = 9^{\circ}08'00.15''$ RT | $\Delta = 4^{\circ}25'05.22''$ RT |
| $D_c = 1^{\circ}30'00''$          | $D_c = 0^{\circ}45'00''$          |
| $R = 3,819.72'$                   | $R = 7,639.44'$                   |
| $T = 305.09'$                     | $T = 294.69'$                     |
| $L = 608.89'$                     | $L = 589.02'$                     |
| $E = 12.16'$                      | $E = 5.68'$                       |

### LEGEND

ABUT. = ABUTMENT  
 BRG. = BEARING  
 CONC. = CONCRETE  
 CONST. = CONSTRUCTION  
 EXP. = EXPANSION  
 FWD. = FORWARD

● = PROJECT BORING LOCATION

\* = MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 - FIRST POST  
 STATION 5071+06.91 (REAR LEFT)  
 STATION 5071+24.53 (REAR RIGHT)  
 (SEE ROADWAY PLANS FOR DETAILS AND PAYMENT)

\*\* = REFER TO UTILITY PLANS FOR ADDITIONAL INFORMATION.

● POINT/DIMENSION "A" = 24'-4" ACTUAL MINIMUM VERTICAL CLEARANCE (LOW STEEL TO TOP OF RAIL) (23'-0" MINIMUM REQUIRED) (CSX)

DIMENSION "B" = 18'-11 1/4" ACTUAL MINIMUM HORIZONTAL CLEARANCE (18'-0" MINIMUM REQUIRED) (CSX)

DIMENSION "C" = 25'-4 7/8" ACTUAL MINIMUM HORIZONTAL CLEARANCE (18'-0" MINIMUM REQUIRED) (NORFOLK SOUTHERN)

✕ POINT/DIMENSION "D" = 25'-4" ACTUAL MINIMUM VERTICAL CLEARANCE (LOW STEEL TO TOP OF RAIL) (23'-0" MIN. REQ.) (NORFOLK SOUTHERN)

\*\*\* = SEE MSE WALL PLANS FOR DETAILS AND PAYMENT  
 Δ = SEE TEMPORARY SHORING PLANS FOR DETAILS AND PAYMENT

### BORING LOCATIONS

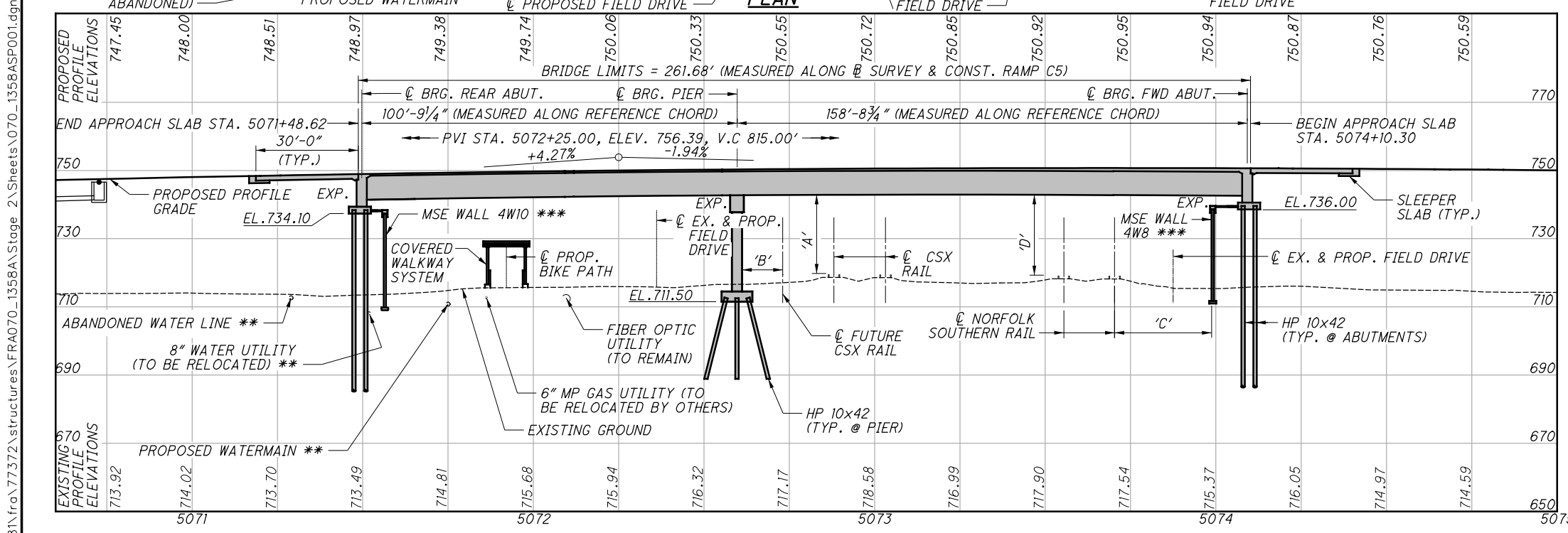
| BORING     | STATION    | OFFSET    | APPROX. TOP OF BEDROCK ELEV. |
|------------|------------|-----------|------------------------------|
| B-017-3-13 | 5070+74.38 | 74.56' LT | 656.8                        |
| B-017-4-13 | 5071+46.22 | 58.40' RT | 659.3                        |
| B-017-5-13 | 5072+43.22 | 44.50' LT | 650.0                        |
| B-017-6-13 | 5071+21.50 | 19.10' RT | 650.6                        |
| B-017-7-13 | 5075+20.51 | 85.33' LT | 653.1                        |

### PROPOSED STRUCTURE

TYPE: 2-SPAN CONTINUOUS STRAIGHT WELDED STEEL PLATE GIRDER WITH COMPOSITE REINFORCED CONCRETE DECK, SEMI-INTEGRAL PILE SUPPORTED STUB ABUTMENTS BEHIND MSE WALLS AND A REINFORCED CONCRETE WALL-TYPE PIER

SPANS: 100'-9 1/4", 158'-8 3/4" c/c BRGS. ALONG REFERENCE CHORD  
 ROADWAY: VARIES TOE/TOE PARAPET  
 LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE  
 SKEW: 19°39'10" RIGHT FORWARD (MEASURED FROM REFERENCE CHORD)  
 APPROACH SLABS: 30'-0" LONG (AS-1-15 MODIFIED) WITH SLEEPER SLAB (AS-2-15)

ALIGNMENT: 1°30'00" CURVE TO THE RIGHT  
 SUPERELEVATION: 0.024 FT/FT  
 WEARING SURFACE: 1" MONOLITHIC CONCRETE  
 COORDINATES: LATITUDE 39°57'10.30" N  
 LONGITUDE 83°00'27.82" W



ESTIMATED PILE LENGTHS:  
 REAR ABUTMENT: 90'  
 PIER: 70'  
 FORWARD ABUTMENT: 100'

PROFILE ALONG B SURVEY & CONSTRUCTION RAMP C5

| NUMBER | DESCRIPTION                  | REVISED BY | DATE       |
|--------|------------------------------|------------|------------|
| 4      | ADDED TEMPORARY SHORING TS4A | CAS        | 11-29-2021 |

3486-E

**BURGESS & NIPLE**  
 Engineers & Architects & Planners  
 5085 REED ROAD, COLUMBUS, OHIO 43220

DATE: 10/18/18  
 STRUCTURE FILE NUMBER: 2510017

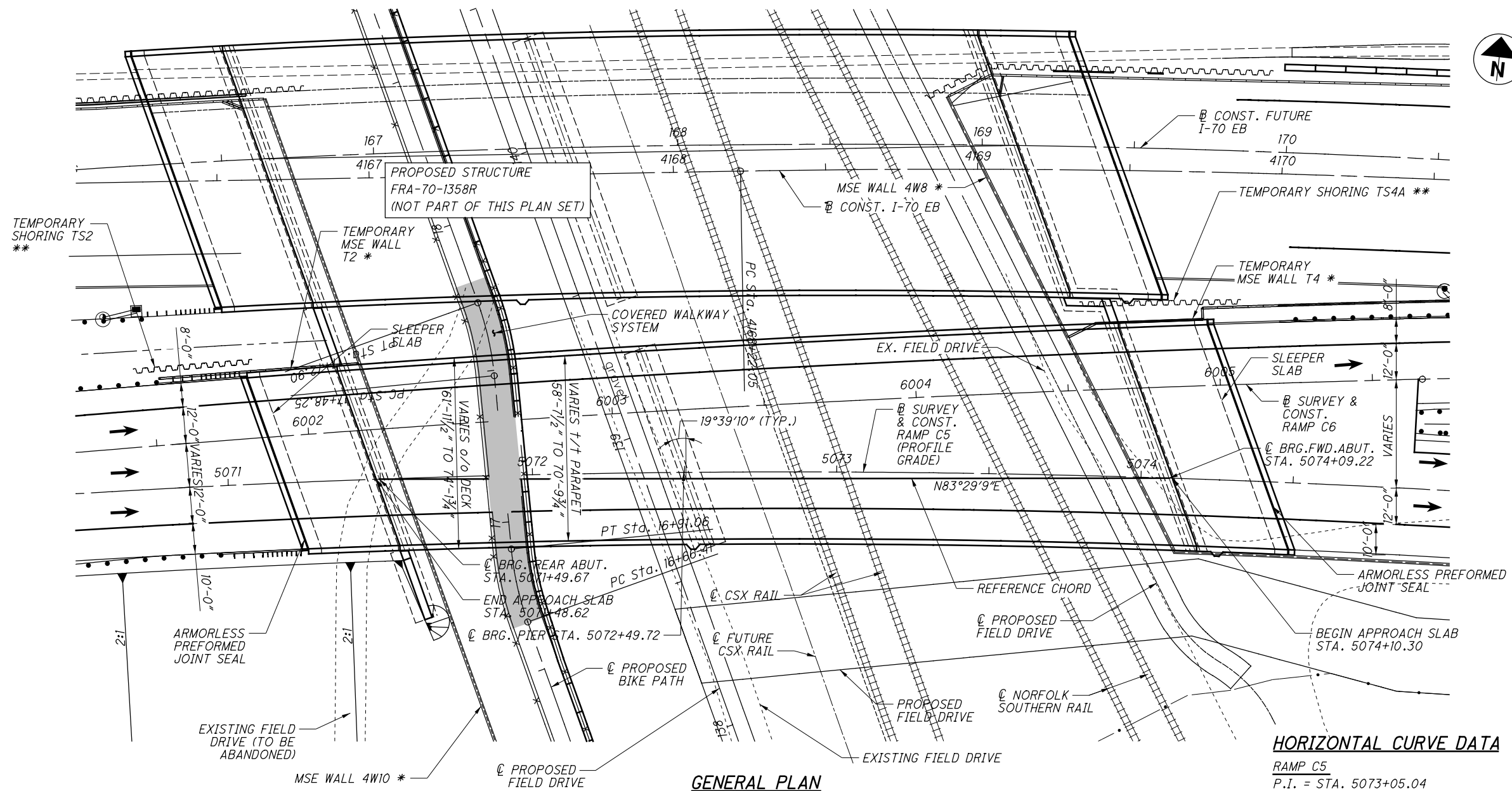
FRANKLIN COUNTY  
 STA. 5071+48.62  
 STA. 5074+10.30

SITE PLAN  
 BRIDGE NO. FRA-70-1358A  
 RAMP C5 OVER CSX AND NS RAILROAD

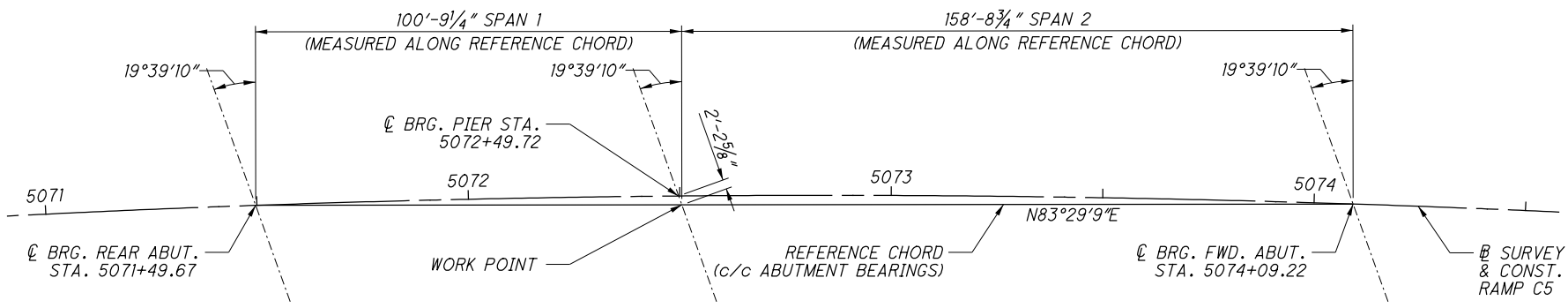
FRA-70/71-12.68/  
 14.86 (PROJ. 4R)  
 PID No. 103523

1/36  
 1472  
 1815

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**GENERAL PLAN**



**LAYOUT DIAGRAM**

**HORIZONTAL CURVE DATA**

**RAMP C5**  
 P.I. = STA. 5073+05.04  
 $\Delta = 9^{\circ}08'00.15''$  RT  
 $D_c = 1^{\circ}30'00''$   
 $R = 3,819.72'$   
 $T = 305.09'$   
 $L = 608.89'$   
 $E = 12.16'$

**RAMP C6**  
 P.I. = STA. 6002+94.69  
 $\Delta = 4^{\circ}25'05.22''$  RT  
 $D_c = 0^{\circ}45'00''$   
 $R = 7,639.44'$   
 $T = 294.69'$   
 $L = 589.02'$   
 $E = 5.68'$

**LEGEND**

ABUT. = ABUTMENT  
 BRG. = BEARING  
 CONST. = CONSTRUCTION  
 FWD. = FORWARD

\* = SEE MSE WALL PLANS FOR DETAILS AND PAYMENT  
 \*\* = SEE TEMPORARY SHORING PLANS FOR DETAILS AND PAYMENT

| NUMBER | DESCRIPTION                  | REVISED BY | DATE       |
|--------|------------------------------|------------|------------|
| 4      | ADDED TEMPORARY SHORING TS4A | CAS        | 11-29-2021 |



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**ESTIMATED QUANTITIES**

| ITEM    | ITEM EXT. | TOTAL   | PARTICIPATION<br>02/NHS/BR | UNIT | DESCRIPTION                                                                                                  | ABUTS. | CALC'D | DATE       | CHK'D      | DATE        |
|---------|-----------|---------|----------------------------|------|--------------------------------------------------------------------------------------------------------------|--------|--------|------------|------------|-------------|
|         |           |         |                            |      |                                                                                                              |        | MAK    | 12/10/2014 | JHL        | 12/12/2014  |
|         |           |         |                            |      |                                                                                                              | PIERS  | SUPER  | GENERAL    | SHEET REF. |             |
| 202     | 11201     | LS      | LS                         |      | PORTIONS OF STRUCTURE REMOVED, AS PER PLAN                                                                   |        |        |            |            | 3 / 36      |
| 503     | 21100     | 132     | 132                        | CY   | UNCLASSIFIED EXCAVATION                                                                                      |        |        |            |            |             |
| 505     | 11100     | LS      | LS                         |      | PILE DRIVING EQUIPMENT MOBILIZATION                                                                          |        |        | 132        |            |             |
| 507     | 00100     | 5,795   | 5,795                      | FT   | STEEL PILES HPI0X42, FURNISHED                                                                               | 3,695  |        | 2,100      |            |             |
| 507     | 00150     | 5,470   | 5,470                      | FT   | STEEL PILES HPI0X42, DRIVEN                                                                                  | 3,510  |        | 1,960      |            |             |
| 507     | 93300     | 65      | 65                         | EACH | STEEL POINTS OR SHOES                                                                                        | 37     |        | 28         |            |             |
| 509     | 10001     | 220,342 | 220,342                    | LB   | EPOXY COATED REINFORCING STEEL, AS PER PLAN                                                                  | 20,594 |        | 22,644     | 177,104    | 3 / 36      |
| 511     | 21523     | 676     | 676                        | CY   | CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN                                                   |        |        | 676        |            | 3 / 36      |
| 511     | 33500     | 2       | 2                          | EACH | SEMI-INTEGRAL DIAPHRAGM GUIDE                                                                                | 2      |        |            |            |             |
| 511     | 34450     | 79      | 79                         | CY   | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)                                                         |        |        | 79         |            |             |
| 511     | 40512     | 214     | 214                        | CY   | CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS                                                           |        |        | 214        |            |             |
| 511     | 44112     | 86      | 86                         | CY   | CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING                                                | 86     |        |            |            |             |
| 511     | 46512     | 206     | 206                        | CY   | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                                                                       | 125    |        | 81         |            |             |
| 512     | 10100     | 1,353   | 1,353                      | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                                                                | 258    |        | 432        | 558        | 105         |
| 513     | 10280     | 598,100 | 598,100                    | LB   | STRUCTURAL STEEL MEMBERS, LEVEL 4                                                                            |        |        | 598,100    |            |             |
| 513     | 20000     | 4,386   | 4,386                      | EACH | WELDED STUD SHEAR CONNECTORS                                                                                 |        |        | 4,386      |            |             |
| 516     | 10010     | 141     | 141                        | FT   | ARMORLESS PREFORMED JOINT SEAL                                                                               |        |        |            | 141        |             |
| 516     | 13900     | 34      | 34                         | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                                                          |        |        | 34         |            |             |
| 516     | 14020     | 170     | 170                        | FT   | SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL                                                                  | 170    |        |            |            |             |
| 516     | 44201     | 7       | 7                          | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 25"x21"x3 7/8") |        |        | 7          |            | 29 / 36     |
| 516     | 44201     | 7       | 7                          | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 15"x12"x3 3/4") | 7      |        |            |            | 29 / 36     |
| 516     | 44201     | 7       | 7                          | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 18"x16"x3 3/4") | 7      |        |            |            | 29 / 36     |
| 518     | 21200     | 127     | 127                        | CY   | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                       | 127    |        |            |            |             |
| 518     | 40000     | 170     | 170                        | FT   | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                        |        |        |            | 170        |             |
| 526     | 30011     | 453     | 453                        | SY   | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN                                           |        |        |            | 453        | 3, 30-32/36 |
| 526     | 90030     | 140     | 140                        | FT   | TYPE C INSTALLATION                                                                                          |        |        |            | 140        |             |
| SPECIAL | 6074000   | 519     | 519                        | FT   | VANDAL PROTECTION FENCE: 6 FT STRAIGHT, COATED FABRIC                                                        |        |        |            | 519        | 26 & 27/36  |
| SPECIAL | 69098100  | 114     | 114                        | FT   | COVERED WALKWAY SYSTEM                                                                                       |        |        |            | 114        | 3 / 36      |

| NUMBER | DESCRIPTION                  | REVISED BY | DATE       |
|--------|------------------------------|------------|------------|
| 4      | FUNDING PARTICIPATION CHANGE | CAS        | 11-29-2021 |

**BURGESS & NIPLÉ**  
 Engineers ■ Architects ■ Planners  
 5085 REED ROAD, COLUMBUS, OHIO 43220

DATE: 10/18/18  
 REVIEWED: CAS  
 STRUCTURE FILE NUMBER: 2510017

DRAWN: AAA  
 CHECKED: BLS  
 REVISED:

**ESTIMATED QUANTITIES**  
 BRIDGE NO. FRA-70-1358A  
 RAMP C5 OVER CSX AND NS RAILROAD

FRA-70/71-12.68 /  
 14.86 (PROJ. 4R)  
 PID No. 105523

5 / 36  
 1476  
 1815

P:\PR51781\17372\structures\FRA070\_1373R\Stage 2\Sheets\070\_1373REQ001.dgn 11/24/2021 10:20:13 AM albey

**ESTIMATED QUANTITIES**

| ITEM      | ITEM EXT. | UNIT | DESCRIPTION                                                                                                                                              | ABUTMENTS | SUPERSTR. | GENERAL | TOTAL   | CALC.         | DATE     | CHK'D      | DATE     |
|-----------|-----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|---------|---------------|----------|------------|----------|
|           |           |      |                                                                                                                                                          |           |           |         |         | JHL           | 6/2/2015 | JDH        | 6/2/2015 |
|           |           |      |                                                                                                                                                          |           |           |         |         | PARTICIPATION |          | SHT. REF.  |          |
| 03/NHS/BR | 03/NHS/BR |      |                                                                                                                                                          |           |           |         |         |               |          |            |          |
| 202       | 11203     |      | PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN                                                                                            |           |           |         | LS      | LS            | LS       | 3 & 4 / 31 |          |
| 202       | 22900     | SY   | APPROACH SLAB REMOVED                                                                                                                                    |           |           | 323     | 323     | 194           | 129      |            |          |
| 202       | 23500     | SY   | WEARING COURSE REMOVED                                                                                                                                   |           | 619       | 367     | 986     | 592           | 394      |            |          |
| 505       | 11100     |      | PILE DRIVING EQUIPMENT MOBILIZATION                                                                                                                      |           |           |         | LS      | LS            | LS       |            |          |
| 507       | 00100     | FT   | STEEL PILES HP10X42, FURNISHED                                                                                                                           | 4,390     |           |         | 4,390   | 2,634         | 1,756    |            |          |
| 507       | 00150     | FT   | STEEL PILES HP10X42, DRIVEN                                                                                                                              | 4,165     |           |         | 4,165   | 2,499         | 1,666    |            |          |
| 507       | 92201     | FT   | PREBORED HOLES, AS PER PLAN                                                                                                                              | 92        |           |         | 92      | 55            | 37       | 3 / 31     |          |
| 507       | 93300     | EACH | STEEL POINTS OR SHOES                                                                                                                                    | 45        |           |         | 45      | 27            | 18       |            |          |
| 509       | 10001     | LB   | EPOXY COATED REINFORCING STEEL, AS PER PLAN                                                                                                              | 32,020    | 93,877    |         | 125,897 | 75,538        | 50,359   | 3 / 31     |          |
| 511       | 21523     | CY   | CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN                                                                                               |           | 501       |         | 501     | 300           | 201      | 3 / 31     |          |
| 511       | 33500     | EACH | SEMI-INTEGRAL DIAPHRAGM GUIDE                                                                                                                            | 2         |           |         | 2       | 1             | 1        |            |          |
| 511       | 34450     | CY   | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)                                                                                                     |           | 29        |         | 29      | 17            | 12       |            |          |
| 511       | 44112     | CY   | CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING                                                                                            | 192       |           |         | 192     | 115           | 77       |            |          |
| 511       | 46512     | CY   | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                                                                                                                   | 158       |           |         | 158     | 95            | 63       |            |          |
| 512       | 10100     | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                                                                                                            | 343       | 405       | 105     | 853     | 512           | 341      |            |          |
| 512       | 33000     | SY   | TYPE 2 WATERPROOFING                                                                                                                                     | 3         | 8         |         | 11      | 7             | 4        |            |          |
| 515       | 15030     | EACH | DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE 4 MOD. (60 IN.) (91'-10" BEAM LENGTH)                                            |           | 9         |         | 9       | 5             | 4        |            |          |
| 515       | 20001     | EACH | INTERMEDIATE DIAPHRAGMS, AS PER PLAN                                                                                                                     |           | 24        |         | 24      | 14            | 10       | 16 / 31    |          |
| 516       | 10010     | FT   | ARMORLESS PREFORMED JOINT SEAL                                                                                                                           |           |           | 204     | 204     | 122           | 82       |            |          |
| 516       | 13900     | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                                                                                                      |           | 167       |         | 167     | 100           | 67       |            |          |
| 516       | 14020     | FT   | SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL                                                                                                              | 234       |           |         | 234     | 140           | 94       |            |          |
| 516       | 44201     | EACH | ELASTOMERIC BEARING WITH INTERNAL STEEL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (BEARING: 1'-6" x 1'-4" x 3/8". LOAD PLATE: 1'-7" x 1'-5" x 2") |           | 18        |         | 18      | 11            | 7        | 26 / 31    |          |
| 518       | 21200     | CY   | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                                                                   | 164       |           |         | 164     | 98            | 66       |            |          |
| 518       | 40000     | FT   | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                                                                    | 192       |           |         | 192     | 115           | 77       |            |          |
| 526       | 30011     | SY   | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN                                                                                       |           |           | 655     | 655     | 393           | 262      | 4 / 31     |          |
| 526       | 90030     | FT   | TYPE C INSTALLATION                                                                                                                                      |           |           | 204     | 204     | 122           | 82       |            |          |

**GENERAL NOTES (CONTINUED):**

**ITEM 526 - REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN:** THE REQUIREMENTS OF 511.03 AND 511.04 SHALL APPLY TO THIS ITEM OF WORK. THIS ITEM SHALL INCLUDE, BUT IS NOT LIMITED TO THE CONCRETE, REINFORCING STEEL, PEJF, GFRP BARS, AND HMWM SEALER NECESSARY TO FORM AND PLACE THE APPROACH SLABS AND CONCRETE PARAPETS ON THE APPROACH SLABS, AS SHOWN IN THE PLANS. PAYMENT FOR THIS ITEM SHALL ALSO INCLUDE THE ITEMS LISTED ON STANDARD DRAWING AS-1-15 AND ALL OTHER NECESSARY MATERIALS, LABOR, AND EQUIPMENT AND SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 526 REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN.

**DECK PLACEMENT DESIGN ASSUMPTIONS:**

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.51 KIPS. A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103 INCHES. A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES. A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65 INCHES.

**ASBESTOS SURVEY:**

AN ASBESTOS SURVEY FOR THE BRIDGE STRUCTURE SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS INSPECTION REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ABOVE REGULATORY LIMITS. A COPY OF THE ASBESTOS INSPECTION REPORT FOR THE STRUCTURE IS INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT.

**ELECTRONIC SUBMISSION:**

SUBMIT A COMPLETED ELECTRONIC NOTIFICATION OF DEMOLITION AND RENOVATION FORM (NDRF), APPLICABLE FEES, AND THE ASBESTOS INSPECTION REPORT TO THE OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. SUBMIT THE NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT USING THE OEPA EBUSINESS CENTER. SUBMIT ONE ELECTRONIC PDF COPY AND ONE HARD COPY OF THE NDRF TO THE ENGINEER. THE ENGINEER WILL PROVIDE ONE COPY TO THE DISTRICT ENVIRONMENTAL STAFF.

**HARD COPY SUBMISSION:**

THE CONTRACTOR MAY SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT. FOLLOW THE MAILING INSTRUCTIONS ON THE NDRF. CHECK WITH LOCAL HEALTH DEPARTMENT, COLUMBUS PUBLIC HEALTH, 240 PARSONS AVE., COLUMBUS, OHIO 43215, (614) 645-7005, TO DETERMINE IF THEY REQUIRE A HARD COPY SUBMITTAL.

SUBMIT THE COMPLETED NDRF TO OEPA AT LEAST 10 DAYS PRIOR TO DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. RETAIN TWO HARD COPIES OF THE NDRF AND SUBMIT ONE COPY TO THE ENGINEER AND EMAIL ONE COPY TO THE ODOT DISTRICT ENVIRONMENTAL COORDINATOR AT: janice.gar@dot.ohio.gov.

**BASIS OF PAYMENT:**

THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIALS NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

**STANDARD ABBREVIATIONS:**

- ABUT. = ABUTMENT
- BOT. = BOTTOM
- BRG. = BEARINGS
- c/c = CENTER-TO-CENTER
- CIP = CAST-IN-PLACE
- C.J. = CONSTRUCTION JOINT
- CLR. = CLEAR
- CMS = CONSTRUCTION AND MATERIAL SPECIFICATIONS
- CONST. = CONSTRUCTION
- C.P.P. = CORRUGATED PLASTIC PIPE
- DIA. = DIAMETER
- DIM. = DIMENSION
- DWG. = DRAWING
- E.F. = EACH FACE
- EB = EASTBOUND
- EL. = ELEVATION
- EQ. = EQUAL
- EXP. = EXPANSION
- F.A. = FORWARD ABUTMENT
- F.F. = FAR FACE
- FWD. = FORWARD
- GFRP = GLASS FIBER REINFORCED POLYMER
- HMWM = HIGH MOLECULAR WEIGHT METHACRYLATE
- LT. = LEFT
- M.C. = MECHANICAL CONNECTOR
- MAX. = MAXIMUM
- MGS = MIDWEST GUARDRAIL SYSTEM
- MID. = MIDDLE
- MIN. = MINIMUM
- MSE = MECHANICALLY STABILIZED EARTH
- CONST. = CONSTRUCTION
- N.F. = NEAR FACE
- o/o = OUT-TO-OUT
- PEJF = PREFORMED EXPANSION JOINT FILLER
- R.A. = REAR ABUTMENT
- RT. = RIGHT
- S.O. = SERIES OF
- SPA. = SPACES
- STA. = STATION
- STD. = STANDARD
- T&B = TOP & BOTTOM
- †/† = TOE-TO-TOE
- TYP. = TYPICAL
- U.N.O. = UNLESS NOTED OTHERWISE

| NUMBER | DESCRIPTION                                             | REVISED BY | DATE       |
|--------|---------------------------------------------------------|------------|------------|
| 4      | - FUNDING PARTICIPATION CHANGE<br>- ADDED ASBESTOS NOTE | CAS        | 11-29-2021 |

**BURGESS & NIPLÉ**  
Engineers ■ Architects ■ Planners  
5085 REED ROAD, COLUMBUS, OHIO 43220

**GENERAL NOTES AND ESTIMATED QUANTITIES**  
FRA-70-1373R  
I-70 EB OVER SHORT STREET

DATE: 10/18/18  
REVIEWED: CAS  
DRAWN: AAA  
DESIGNED: TTK  
CHECKED: JHL  
STRUCTURE FILE NUMBER: 2510020

FRA-70/71-12.68 / 14.86 (PROJ. 4R)  
PID No. 105523

4 / 31

1511  
1815

**ESTIMATED QUANTITIES**

| ITEM | ITEM EXT. | UNIT | DESCRIPTION                                                                                                                                             | ABUTMENTS | SUPERSTR. | CALC'D  |        | CHK'D                      |      | SHT. REF. |
|------|-----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|--------|----------------------------|------|-----------|
|      |           |      |                                                                                                                                                         |           |           | ABP     | DATE   | JDH                        | DATE |           |
|      |           |      |                                                                                                                                                         |           |           | GENERAL | TOTAL  | PARTICIPATION<br>02/NHS/BR |      |           |
| 505  | 11100     |      | PILE DRIVING EQUIPMENT MOBILIZATION                                                                                                                     |           |           |         | LS     | LS                         |      |           |
| 507  | 00100     | FT   | STEEL PILES HPI0X42, FURNISHED                                                                                                                          | 2,155     |           |         | 2,155  | 2,155                      |      |           |
| 507  | 00150     | FT   | STEEL PILES HPI0X42, DRIVEN                                                                                                                             | 2,050     |           |         | 2,050  | 2,050                      |      |           |
| 507  | 93300     | EACH | STEEL POINTS OR SHOES                                                                                                                                   | 21        |           |         | 21     | 21                         |      |           |
| 509  | 10001     | LB   | EPOXY COATED REINFORCING STEEL, AS PER PLAN                                                                                                             | 12,564    | 42,810    |         | 55,374 | 55,374                     |      | 3 / 25    |
| 511  | 21523     | CY   | CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN                                                                                              |           | 212       |         | 212    | 212                        |      | 3 / 25    |
| 511  | 33500     | EACH | SEMI-INTEGRAL DIAPHRAGM GUIDE                                                                                                                           | 2         |           |         | 2      | 2                          |      |           |
| 511  | 34450     | CY   | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)                                                                                                    |           | 29        |         | 29     | 29                         |      |           |
| 511  | 44112     | CY   | CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING                                                                                           | 66        |           |         | 66     | 66                         |      |           |
| 511  | 46512     | CY   | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                                                                                                                  | 70        |           |         | 70     | 70                         |      |           |
| 512  | 10100     | SY   | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                                                                                                           | 124       | 404       |         | 528    | 528                        |      |           |
| 515  | 15030     | EACH | DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE 4 MOD. (60 IN.)<br>(91'-2" BEAM LENGTH)                                         |           | 4         |         | 4      | 4                          |      |           |
| 515  | 20001     | EACH | INTERMEDIATE DIAPHRAGMS, AS PER PLAN                                                                                                                    |           | 9         |         | 9      | 9                          |      | 11 / 25   |
| 516  | 10010     | FT   | ARMORLESS PREFORMED JOINT SEAL                                                                                                                          |           |           | 85      | 85     | 85                         |      |           |
| 516  | 13900     | SF   | 2" PREFORMED EXPANSION JOINT FILLER                                                                                                                     |           | 167       |         | 167    | 167                        |      |           |
| 516  | 14020     | FT   | SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL                                                                                                             | 124       |           |         | 124    | 124                        |      |           |
| 516  | 44201     | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE),<br>AS PER PLAN (BEARING: 1'-6" x 1'-4" x 3 1/8", LOAD PLATE: 1'-7" x 1'-5" x 2") |           | 8         |         | 8      | 8                          |      | 21 / 25   |
| 518  | 21200     | CY   | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                                                                  | 63        |           |         | 63     | 63                         |      |           |
| 518  | 40000     | FT   | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                                                                   | 88        |           |         | 88     | 88                         |      |           |
| 526  | 30011     | SY   | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN                                                                                      |           |           | 276     | 276    | 276                        |      | 3 / 25    |
| 526  | 90030     | FT   | TYPE C INSTALLATION                                                                                                                                     |           |           | 85      | 85     | 85                         |      |           |

**STANDARD ABBREVIATIONS:**

|                                                |                                         |
|------------------------------------------------|-----------------------------------------|
| ABUT. = ABUTMENT                               | GFRP = GLASS FIBER REINFORCED POLYMER   |
| BOT. = BOTTOM                                  | LT. = LEFT                              |
| BRG. = BEARINGS                                | MAX. = MAXIMUM                          |
| c/c = CENTER-TO-CENTER                         | MID. = MIDDLE                           |
| CIP = CAST-IN-PLACE                            | MIN. = MINIMUM                          |
| C.J. = CONSTRUCTION JOINT                      | MSE = MECHANICALLY STABILIZED EARTH     |
| CLR. = CLEAR                                   | N.F. = NEAR FACE                        |
| CMS = CONSTRUCTION AND MATERIAL SPECIFICATIONS | o/o = OUT-TO-OUT                        |
| CONST. = CONSTRUCTION                          | PEJF = PREFORMED EXPANSION JOINT FILLER |
| C.P.P. = CORRUGATED PLASTIC PIPE               | R.A. = REAR ABUTMENT                    |
| DIA. = DIAMETER                                | RT. = RIGHT                             |
| DIM. = DIMENSION                               | S.O. = SERIES OF                        |
| DWG. = DRAWING                                 | SPA. = SPACES                           |
| E.F. = EACH FACE                               | STA. = STATION                          |
| EB = EASTBOUND                                 | STD. = STANDARD                         |
| EL. = ELEVATION                                | T&B = TOP & BOTTOM                      |
| EQ. = EQUAL                                    | †/† = TOE-TO-TOE                        |
| EXP. = EXPANSION                               | TYP. = TYPICAL                          |
| F.A. = FORWARD ABUTMENT                        | U.N.O. = UNLESS NOTED OTHERWISE         |
| F.F. = FAR FACE                                | V.C. = VERTICAL CURVE                   |
| FWD. = FORWARD                                 |                                         |

| NUMBER | DESCRIPTION                  | REVISED BY | DATE       |
|--------|------------------------------|------------|------------|
| 4      | FUNDING PARTICIPATION CHANGE | CAS        | 11-29-2021 |

**BURGESS & NIPLÉ**  
Engineers - Architects - Planners  
5085 REED ROAD, COLUMBUS, OHIO 43220

DATE 10/18/18  
REVIEWED CAS  
STRUCTURE FILE NUMBER 2510019

DRAWN JHL  
DESIGNED JHL  
CHECKED TTK

**ESTIMATED QUANTITIES**  
FRA-70-1373A  
RAMP C5 OVER SHORT STREET

FRA-70/71-12.68 /  
14.86 (PROJ. 4R)  
PID No. 105523

4 / 25

1542  
1815

**ESTIMATED QUANTITIES**

CALCULATED: RFV      DATE: 4/6/2018  
 CHECKED: MLS      DATE: 5/23/2019

| ITEM    | EXT.     | TOTAL     | PARTICIPATION | UNITS | DESCRIPTION                                                                                                                 | ABUT.   | PIER    | SUPER.  | GENERAL | A.P.P. REFERENCE SHEET NO. |
|---------|----------|-----------|---------------|-------|-----------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|----------------------------|
|         |          |           | 02/NHS/BR     |       |                                                                                                                             |         |         |         |         |                            |
| 503     | 11101    | LS        | LS            |       | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                                                                              |         |         |         |         | 1569                       |
| 503     | 21100    | 7,708     | 7,708         | CY    | UNCLASSIFIED EXCAVATION                                                                                                     | 5,878   | 1,830   |         |         |                            |
| 509     | 10001    | 1,508,568 | 1,508,568     | LB    | EPOXY COATED REINFORCING STEEL, AS PER PLAN                                                                                 | 571,149 | 388,043 | 474,768 | 74,608  | 1569                       |
| 511     | 33418    | 871       | 871           | CY    | CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE                                                                               | 469     | 402     |         |         |                            |
| 511     | 33500    | 7         | 7             | EACH  | SEMI-INTEGRAL DIAPHRAGM GUIDE                                                                                               | 7       |         |         |         |                            |
| 511     | 34446    | 1,097     | 1,097         | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK                                                                                  |         |         | 1,097   |         |                            |
| 511     | 34450    | 139       | 139           | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)                                                                        |         |         | 139     |         |                            |
| 511     | 41012    | 1,238     | 1,238         | CY    | CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTING                                                                           |         | 1,238   |         |         |                            |
| 511     | 44112    | 2,713     | 2,713         | CY    | CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING                                                               | 2,713   |         |         |         |                            |
| 511     | 46512    | 1,922     | 1,922         | CY    | CLASS QC1 CONCRETE WITH QC/QA, FOOTING                                                                                      | 1,567   | 355     |         |         |                            |
| 512     | 10100    | 7,010     | 7,010         | SY    | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), LIGHT NEUTRAL                                                                | 3,231   | 2,889   | 890     |         |                            |
| 512     | 10100    | 8,863     | 8,863         | SY    | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), BLACK                                                                        |         |         | 8,863   |         |                            |
| 512     | 33000    | 22        | 22            | SY    | TYPE 2 WATERPROOFING                                                                                                        | 22      |         |         |         |                            |
| 513     | 10200    | 3,250     | 3,250         | LB    | STRUCTURAL STEEL MEMBERS, LEVEL UF                                                                                          | 3,250   |         |         |         |                            |
| 513     | 10220    | 135,978   | 135,978       | LB    | STRUCTURAL STEEL MEMBERS, LEVEL 1                                                                                           | 135,978 |         |         |         |                            |
| 515     | 15110    | 45        | 45            | EACH  | DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, WF60-49<br>(BEAM LENGTH VARIES 93'-1 1/2" TO 99'-2 3/8") |         |         | 45      |         |                            |
| 515     | 20000    | 129       | 129           | EACH  | INTERMEDIATE DIAPHRAGMS                                                                                                     |         |         | 129     |         |                            |
| 516     | 11211    | 254       | 254           | FT    | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN (4")                                               |         |         | 254     |         | 1661                       |
| 516     | 13600    | 2,057     | 2,057         | SF    | 1" PREFORMED EXPANSION JOINT FILLER                                                                                         | 304     | 1,823   |         |         |                            |
| 516     | 13900    | 1,040     | 1,040         | SF    | 2" PREFORMED EXPANSION JOINT FILLER                                                                                         | 674     | 366     |         |         |                            |
| 516     | 14020    | 23        | 23            | FT    | SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL                                                                                 | 23      |         |         |         |                            |
| 516     | 44101    | 90        | 90            | EACH  | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-1" x 1'-11" x 2.70"), AS PER PLAN                 | 45      | 45      |         |         | 1628                       |
| 518     | 12000    | 4         | 4             | EACH  | SCUPPERS, INCLUDING SUPPORTS                                                                                                |         |         | 4       |         |                            |
| 518     | 21200    | 922       | 922           | CY    | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                                      | 922     |         |         |         |                            |
| 518     | 40000    | 835       | 835           | FT    | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                                       | 835     |         |         |         |                            |
| 518     | 40010    | 44        | 44            | FT    | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS                                                               | 44      |         |         |         |                            |
| 518     | 51100    | 35        | 35            | FT    | 8" PIPE DOWNSPOUT, INCLUDING SPECIALS                                                                                       |         |         |         | 35      |                            |
| 518     | 60030    | 272       | 272           | FT    | PIPE HORIZONTAL CONDUCTOR                                                                                                   |         |         |         | 272     |                            |
| 524     | 95442    | 234       | 234           | FT    | DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK WITH QC/QA                                                                      | 234     |         |         |         |                            |
| 524     | 95452    | 1,686     | 1,686         | FT    | DRILLED SHAFTS, 48" DIAMETER, ABOVE BEDROCK WITH QC/QA                                                                      |         | 1,686   |         |         |                            |
| 524     | 95472    | 3,751     | 3,751         | FT    | DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK WITH QC/QA, AS PER PLAN                                                         | 3,751   |         |         |         | 1569                       |
| 526     | 30011    | 661       | 661           | SY    | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN                                                          |         |         |         | 661     | 1668                       |
| 526     | 90010    | 47        | 47            | FT    | TYPE A INSTALLATION                                                                                                         |         |         |         | 47      |                            |
| SPECIAL | 53013000 | 6,060     | 6,060         | SF    | SPECIAL - FORM LINER                                                                                                        | 4,830   |         | 1,230   |         | 1569                       |
| SPECIAL | 53000600 | 1,200     | 1,200         | SF    | STRUCTURES: PRECAST FACADE PANELS                                                                                           | 1,200   |         |         |         | 1570                       |



DESIGN AGENCY  
**GPD GROUP**  
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DATE: 9-6-19  
 REVIEWED: DGN  
 STRUCTURE FILE NUMBER: 2510021

DRAWN: MLS  
 CHECKED: RHC

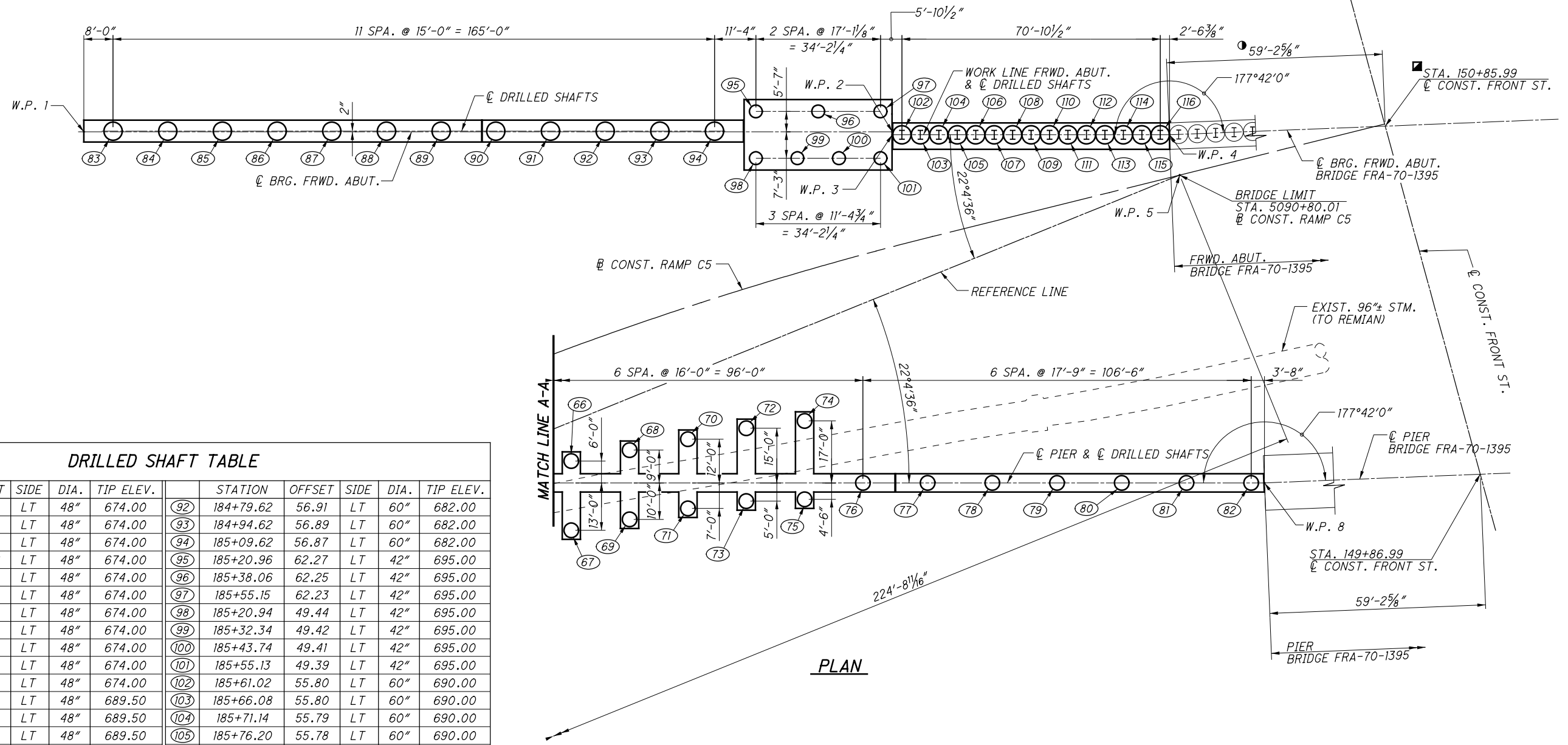
**ESTIMATED QUANTITIES**  
 BRIDGE NO. FRA-70-1390C  
 RAMP C5 OVER I-70/71

**FRA-70/71-12.68 / 14.86**  
**PID No. 105523**

8 / 118  
 1571  
 1815

| NO. | DESCRIPTION                    | REV. BY | DATE       |
|-----|--------------------------------|---------|------------|
| 4   | FUNDING CODE CHANGE/ADDED ITEM | CWL/RFV | 11-29-2021 |

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**DRILLED SHAFT TABLE**

| STATION | OFFSET    | SIDE  | DIA. | TIP ELEV. | STATION | OFFSET | SIDE      | DIA.  | TIP ELEV. |     |        |
|---------|-----------|-------|------|-----------|---------|--------|-----------|-------|-----------|-----|--------|
| 66      | 184+48.11 | 46.04 | LT   | 48"       | 674.00  | 92     | 184+79.62 | 56.91 | LT        | 60" | 682.00 |
| 67      | 184+48.13 | 27.04 | LT   | 48"       | 674.00  | 93     | 184+94.62 | 56.89 | LT        | 60" | 682.00 |
| 68      | 184+64.10 | 49.06 | LT   | 48"       | 674.00  | 94     | 185+09.62 | 56.87 | LT        | 60" | 682.00 |
| 69      | 184+64.13 | 30.06 | LT   | 48"       | 674.00  | 95     | 185+20.96 | 62.27 | LT        | 42" | 695.00 |
| 70      | 184+80.10 | 52.08 | LT   | 48"       | 674.00  | 96     | 185+38.06 | 62.25 | LT        | 42" | 695.00 |
| 71      | 184+80.12 | 33.08 | LT   | 48"       | 674.00  | 97     | 185+55.15 | 62.23 | LT        | 42" | 695.00 |
| 72      | 184+96.09 | 55.10 | LT   | 48"       | 674.00  | 98     | 185+20.94 | 49.44 | LT        | 42" | 695.00 |
| 73      | 184+96.12 | 35.10 | LT   | 48"       | 674.00  | 99     | 185+32.34 | 49.42 | LT        | 42" | 695.00 |
| 74      | 185+12.09 | 57.12 | LT   | 48"       | 674.00  | 100    | 185+43.74 | 49.41 | LT        | 42" | 695.00 |
| 75      | 185+12.12 | 35.62 | LT   | 48"       | 674.00  | 101    | 185+55.13 | 49.39 | LT        | 42" | 695.00 |
| 76      | 185+28.11 | 40.14 | LT   | 48"       | 674.00  | 102    | 185+61.02 | 55.80 | LT        | 60" | 690.00 |
| 77      | 185+45.86 | 40.16 | LT   | 48"       | 689.50  | 103    | 185+66.08 | 55.80 | LT        | 60" | 690.00 |
| 78      | 185+63.61 | 40.18 | LT   | 48"       | 689.50  | 104    | 185+71.14 | 55.79 | LT        | 60" | 690.00 |
| 79      | 185+81.36 | 40.20 | LT   | 48"       | 689.50  | 105    | 185+76.20 | 55.78 | LT        | 60" | 690.00 |
| 80      | 185+99.21 | 40.22 | LT   | 48"       | 689.50  | 106    | 185+81.27 | 55.78 | LT        | 60" | 690.00 |
| 81      | 186+17.21 | 40.14 | LT   | 48"       | 689.50  | 107    | 185+86.33 | 55.77 | LT        | 60" | 690.00 |
| 82      | 186+35.20 | 39.96 | LT   | 48"       | 689.50  | 108    | 185+91.39 | 55.76 | LT        | 60" | 690.00 |
| 83      | 183+44.62 | 57.09 | LT   | 60"       | 682.00  | 109    | 185+96.45 | 55.76 | LT        | 60" | 690.00 |
| 84      | 183+59.62 | 57.07 | LT   | 60"       | 682.00  | 110    | 186+01.52 | 55.75 | LT        | 60" | 690.00 |
| 85      | 183+74.62 | 57.05 | LT   | 60"       | 682.00  | 111    | 186+06.58 | 55.74 | LT        | 60" | 690.00 |
| 86      | 183+89.62 | 57.03 | LT   | 60"       | 682.00  | 112    | 186+11.64 | 55.74 | LT        | 60" | 690.00 |
| 87      | 184+04.62 | 57.01 | LT   | 60"       | 682.00  | 113    | 186+16.70 | 55.73 | LT        | 60" | 690.00 |
| 88      | 184+19.62 | 56.99 | LT   | 60"       | 682.00  | 114    | 186+21.77 | 55.72 | LT        | 60" | 690.00 |
| 89      | 184+34.62 | 56.97 | LT   | 60"       | 682.00  | 115    | 186+26.93 | 55.71 | LT        | 60" | 690.00 |
| 90      | 184+49.62 | 56.95 | LT   | 60"       | 682.00  | 116    | 186+32.09 | 55.69 | LT        | 60" | 690.00 |
| 91      | 184+64.62 | 56.93 | LT   | 60"       | 682.00  |        |           |       |           |     |        |

NOTE: STATIONS AND OFFSETS FOR DRILLED SHAFT NOS. (1) TO (82) GIVEN TO  $\text{CL}$  CONST. FUTURE I-70 EB STATIONS AND OFFSETS FOR DRILLED SHAFT NOS. (83) TO (116) GIVEN TO  $\text{CL}$  CONST. I-70 WB

**LEGEND:**

- INDICATES MEASURED FROM W.P. 4 TO INTERSECTION OF  $\text{CL}$  CONST. FRONT ST. AND  $\text{CL}$  BRG. FRWD. ABUT. BRIDGE FRA-70-1395
- INDICATES STATION GIVEN AT INTERSECTION OF  $\text{CL}$  CONST. FRONT ST. AND  $\text{CL}$  BRG. FRWD. ABUT. BRIDGE FRA-70-1395

**NOTES:**

1. FOR MATCHLINE A-A, SEE SH. NO. 14/118.
2. FOR GEOMETRY PLAN, SEE SH. NO. 5/118.

| NO. | DESCRIPTION                   | REV. BY | DATE       |
|-----|-------------------------------|---------|------------|
| 4   | ADDED STEEL IN DRILLED SHAFTS | RFV     | 11-29-2021 |

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|                       |         |
|-----------------------|---------|
| DATE                  | 9-6-19  |
| REVIEWED              | RHC     |
| STRUCTURE FILE NUMBER | 2510021 |
| DRAWN                 | RPR     |
| CHECKED               | MOJ     |
| DESIGNED              | DGN     |
| REVISED               |         |

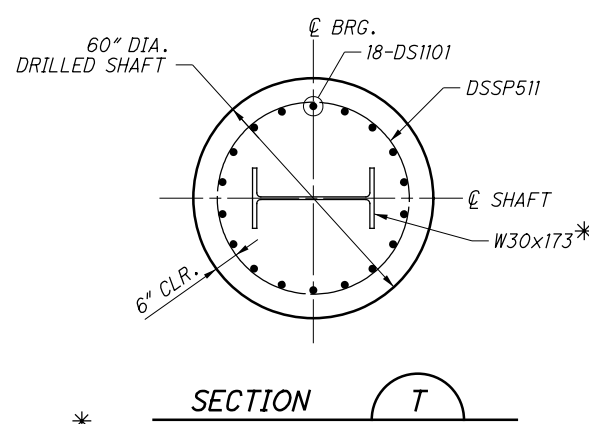
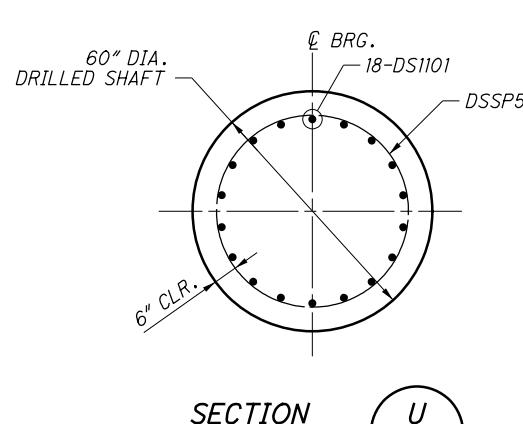
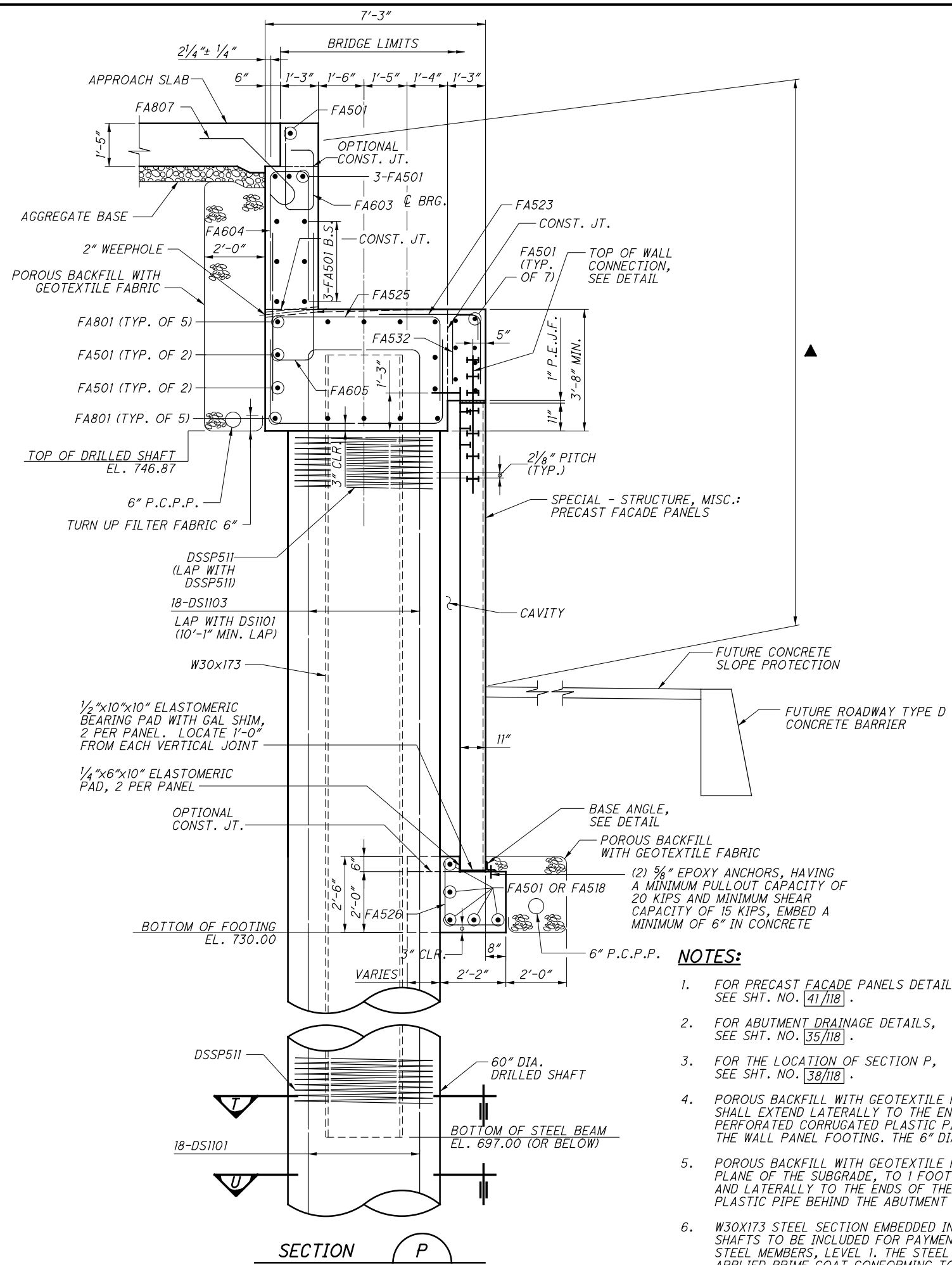
**DRILLED SHAFT PLAN - 2**

BRIDGE NO. FRA-70-1390C  
RAMP C5 OVER I-70/71

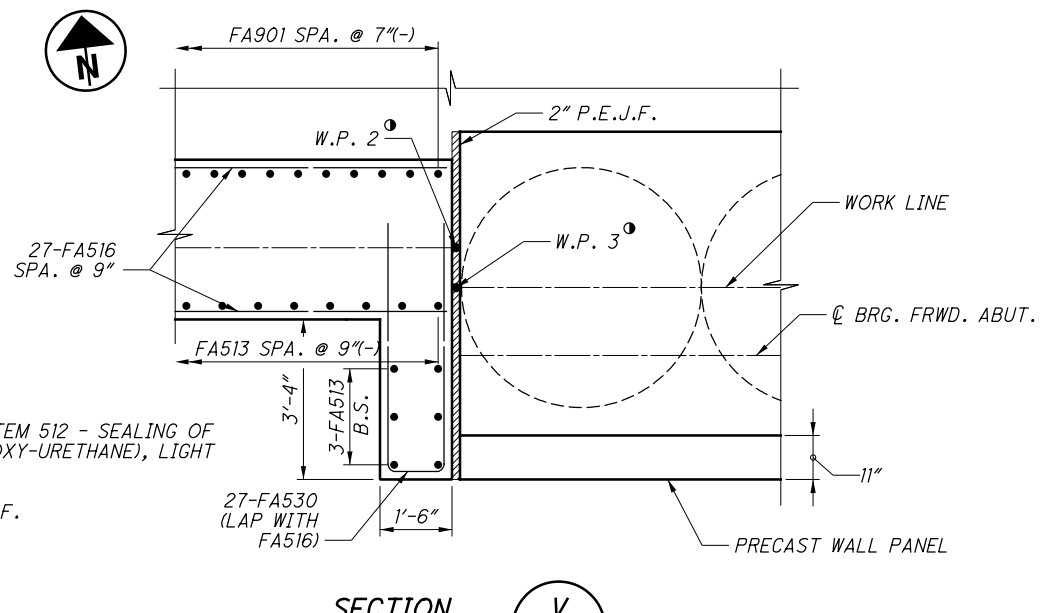
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\* EXTEND W30x173 SECTION TO AT LEAST EL. 697 (OR BELOW) AND PROJECT IT 2'-6\"/>

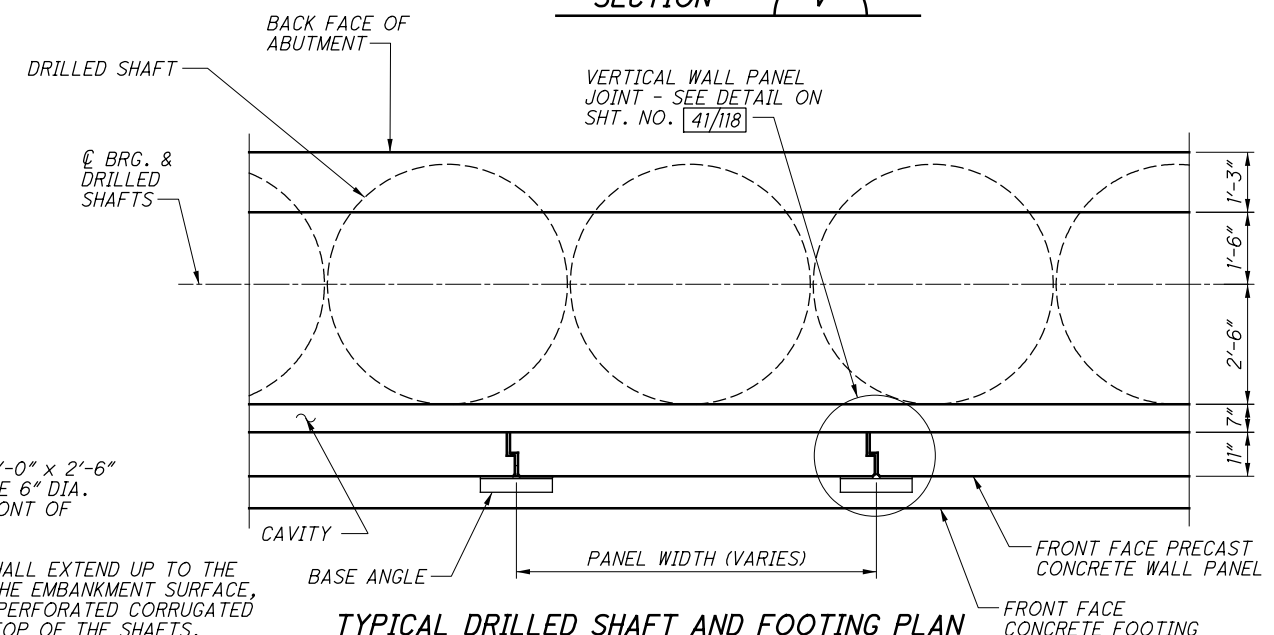


**LEGEND:**

- ▲ INDICATES LIMITS OF "ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), LIGHT NEUTRAL"
- LOCATED AT @ 2" P.E.J.F.

**NOTES:**

1. FOR PRECAST FACADE PANELS DETAILS, SEE SHT. NO. 41/118.
2. FOR ABUTMENT DRAINAGE DETAILS, SEE SHT. NO. 35/118.
3. FOR THE LOCATION OF SECTION P, SEE SHT. NO. 38/118.
4. POROUS BACKFILL WITH GEOTEXTILE FABRIC: 2'-0" x 2'-6" SHALL EXTEND Laterally TO THE ENDS OF THE 6" DIA. PERFORATED CORRUGATED PLASTIC PIPE IN FRONT OF THE WALL PANEL FOOTING. THE 6" DIA.
5. POROUS BACKFILL WITH GEOTEXTILE FABRIC SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND Laterally TO THE ENDS OF THE 6" DIA. PERFORATED CORRUGATED PLASTIC PIPE BEHIND THE ABUTMENT CAP ON TOP OF THE SHAFTS.
6. W30x173 STEEL SECTION EMBEDDED IN THE THE ABUTMENT DRILLED SHAFTS TO BE INCLUDED FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 1. THE STEEL SHALL BE COATED WITH A SHOP APPLIED PRIME COAT CONFORMING TO CMS 514.



| NO. | DESCRIPTION              | REV. BY | DATE       |
|-----|--------------------------|---------|------------|
| 4   | ADDITIONAL DETAIL & NOTE | RFV     | 11-29-2021 |

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|                       |         |
|-----------------------|---------|
| DESIGNED              | DATE    |
| RHC                   | 9-6-19  |
| CHECKED               | DGN     |
| MOJ                   | 2510021 |
| DRAWN                 | REVISED |
| RFR                   |         |
| STRUCTURE FILE NUMBER |         |
| 2510021               |         |

**FORWARD ABUTMENT SECTIONS**  
 BRIDGE NO. FRA-70-1390C  
 RAMP C5 OVER I-70/71

**FRA-70/71-12.68 / 14.86**  
**PID No. 105523**

40 / 118

1603  
 1815



**ESTIMATED QUANTITIES**

CALCULATED: RFV DATE: 9-3-19  
CHECKED: DJC DATE: 9-6-19

| ITEM    | EXT.     | TOTAL   |          | PARTICIPATION |               | UNITS | DESCRIPTION                                                                                                                                       | ABUT    |          | PIER    |          | SUPER   |          | GENERAL |          | A.P.P. REFERENCE SHT. NO. |
|---------|----------|---------|----------|---------------|---------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|---------|----------|---------|----------|---------|----------|---------------------------|
|         |          | BRIDGE  | EAST CAP | 03/NHS/BR     | 07/NHS/OT/AEP |       |                                                                                                                                                   | BRIDGE  | EAST CAP | BRIDGE  | EAST CAP | BRIDGE  | EAST CAP | BRIDGE  | EAST CAP |                           |
| 202     | 11003    | LS      | LS       | LS            |               |       | STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN                                                                                                 |         |          |         |          |         |          |         |          | 8                         |
| 202     | 22900    | 336     |          | 336           |               | SY    | APPROACH SLAB REMOVED                                                                                                                             |         |          |         |          |         |          | 336     |          |                           |
| 202     | 23500    | 1271    |          | 1271          |               | SY    | WEARING COURSE REMOVED                                                                                                                            |         |          |         |          |         |          | 1271    |          |                           |
| 503     | 11101    | LS      | LS       | LS            |               |       | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                                                                                                    |         |          |         |          |         |          |         |          | 8                         |
| 503     | 21100    | 7806    |          | 7806          |               | CY    | UNCLASSIFIED EXCAVATION                                                                                                                           | 6781    |          | 1025    |          |         |          |         |          |                           |
| 509     | 10000    | 584,714 |          | 584,714       |               | LB    | EPOXY COATED REINFORCING STEEL                                                                                                                    | 48,657  |          | 110,481 |          | 312,908 |          | 112,668 |          |                           |
| 511     | 34446    | 644     | 217      | 861           |               | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK                                                                                                        |         |          |         |          | 644     | 217      |         |          |                           |
| 511     | 34451    | 39      | 41       | 80            |               | CY    | CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN                                                                                 |         |          |         |          | 39      | 41       |         |          | 1746A                     |
| 511     | 41012    | 393     |          | 393           |               | CY    | CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS                                                                                                |         |          | 393     |          |         |          |         |          |                           |
| 511     | 44113    | 315     | 131      | 446           |               | CY    | CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING, AS PER PLAN                                                                        | 315     | 131      |         |          |         |          |         |          | 5                         |
| 511     | 46513    | 290     | 18       | 308           |               | CY    | CLASS QC1 CONCRETE WITH QC/QA, FOOTING, AS PER PLAN                                                                                               | 43      | 18       | 247     |          |         |          |         |          | 4                         |
| 511     | 51513    | 130     | 134      | 264           |               | CY    | CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK, AS PER PLAN                                                                                              |         |          |         |          | 130     | 134      |         |          | 1746A                     |
| 512     | 10050    | 714     | 547      | 1261          |               | SY    | SEALING OF CONCRETE SURFACES (NON-EPOXY)                                                                                                          |         |          |         |          | 714     | 547      |         |          | 1746A                     |
| 512     | 10100    | 1031    | 307      | 1338          |               | SY    | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)                                                                                                     | 737     | 307      | 294     |          |         |          |         |          | 1746A                     |
| 512     | 33000    | 7       |          | 7             |               | SY    | TYPE 2 WATERPROOFING                                                                                                                              | 7       |          |         |          |         |          |         |          |                           |
| 513     | 10220    | 385,790 | 161,582  | 547,372       |               | LB    | STRUCTURAL STEEL MEMBERS, LEVEL 1                                                                                                                 | 385,790 | 161,582  |         |          |         |          |         |          |                           |
| 513     | 10280    | 591,983 | 274,536  | 866,519       |               | LB    | STRUCTURAL STEEL MEMBERS, LEVEL 4                                                                                                                 |         |          |         |          | 591,983 | 274,536  |         |          |                           |
| 513     | 20000    | 7920    | 4865     | 12785         |               | EACH  | WELDED STUD SHEAR CONNECTORS                                                                                                                      |         |          |         |          | 7920    | 4865     |         |          |                           |
| 514     | 00060    | 30594   | 13784    | 44378         |               | SF    | FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT                                                                                                |         |          |         |          | 30594   | 13784    |         |          |                           |
| 514     | 00066    | 30594   | 13784    | 44378         |               | SF    | FIELD PAINTING STRUCTURAL STEEL, FINISH COAT                                                                                                      |         |          |         |          | 30594   | 13784    |         |          |                           |
| 514     | 10000    | 22      | 10       | 32            |               | EACH  | FINAL INSPECTION REPAIR                                                                                                                           |         |          |         |          | 22      | 10       |         |          |                           |
| 516     | 10011    | 178     | 53       | 231           |               | FT    | ARMORLESS PREFORMED JOINT SEAL, AS PER PLAN                                                                                                       |         |          |         |          |         |          | 178     | 53       | 58 - 59                   |
| 516     | 11211    | 218     | 333      | 551           |               | FT    | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN (4")                                                                     |         |          |         |          | 218     | 333      |         |          | 44A                       |
| 516     | 13600    | 397     |          | 397           |               | SF    | 1" PREFORMED EXPANSION JOINT FILLER                                                                                                               | 397     |          |         |          |         |          |         |          |                           |
| 516     | 13900    | 84      |          | 84            |               | SF    | 2" PREFORMED EXPANSION JOINT FILLER                                                                                                               |         |          | 84      |          |         |          |         |          |                           |
| 516     | 44101    | 20      | 10       | 30            |               | EACH  | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 10 1/2" x 1'-4" x 2.45" PAD WITH 11 1/2" x 1'-10" BEVELED PLATE, AS PER PAN |         |          |         |          | 20      | 10       |         |          | 25                        |
| 516     | 44201    | 10      | 5        | 15            |               | EACH  | ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) 1'-6" x 2'-0" x 3.40" PAD WITH 1'-7" x 2'-9" BEVELED PLATE, AS PER PLAN     |         |          |         |          | 10      | 5        |         |          | 25                        |
| 518     | 12500    | 2       |          | 2             |               | EA    | SCUPPER, MISC.: NEENAH R-4014-TL SCUPPER & TYPE V GATE                                                                                            |         |          |         |          | 2       |          |         |          | 33                        |
| 518     | 21200    | 177     | 69       | 246           |               | CY    | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                                                                                            | 177     | 69       |         |          |         |          |         |          |                           |
| 518     | 40000    | 445     | 175      | 620           |               | FT    | 6" PERFORATED CORRUGATED PLASTIC PIPE                                                                                                             | 445     | 175      |         |          |         |          |         |          |                           |
| 518     | 40010    | 25      | 25       | 50            |               | FT    | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS                                                                                     | 25      | 25       |         |          |         |          |         |          |                           |
| 518     | 62100    | 110     |          | 110           |               | FT    | STRUCTURE DRAINAGE, MISC.: DOWNSPOUT/REDUCER/ELBOW CONDUIT DRAINAGE COLLECTION SYSTEM                                                             |         |          |         |          | 110     |          |         |          | 33                        |
| 524     | 95472    | 2,423   | 1,015    | 3,438         |               | FT    | DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK WITH QC/QA, AS PER PLAN                                                                               | 2,423   | 1,015    |         |          |         |          |         |          | 4                         |
| 526     | 25011    | 700     | 258      | 958           |               | SY    | REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN                                                                                |         |          |         |          |         |          | 700     | 258      | 58 - 60                   |
| 526     | 90031    | 178     | 53       | 231           |               | FT    | TYPE C INSTALLATION, AS PER PLAN                                                                                                                  |         |          |         |          |         |          | 178     | 53       | 58 - 59                   |
| SPECIAL | 53000200 | LS      |          | LS            |               |       | STRUCTURES: PERMANENT UTILITY SUPPORTS (TRAFFIC, ITS, DOT, CITY OF COLUMBUS DOP)                                                                  |         |          |         |          |         |          |         |          | 5                         |
| SPECIAL | 53000200 | LS      |          | LS            |               |       | STRUCTURES: PERMANENT UTILITY SUPPORTS (AEP DUCTS)                                                                                                |         |          |         |          |         |          |         |          | 5                         |
| SPECIAL | 53000600 | 4258    | 1774     | 6032          |               | SF    | STRUCTURES: PRECAST FACADE PANELS                                                                                                                 | 4258    | 1774     |         |          |         |          |         |          | 5                         |
| 607     | 98000    | 20      |          | 20            |               | FT    | FENCE, MISC.: WALL MOUNTED TYPE A (W/ VANDAL MESH)                                                                                                | 4.5     |          |         |          | 15.5    |          |         |          | 1746A                     |
| 625     | 10620    | 6       | 2        | 8             |               | EACH  | LIGHT POLE ANCHOR BOLTS, MISC.: COMBINATION SIGNAL POLE AND PEDESTRIAN POLE ANCHOR BOLT ASSEMBLIES EMBEDDED IN CONCRETE BRIDGE DECK               |         |          |         |          | 6       | 2        |         |          | 4                         |
| SPECIAL | 69098100 | 1650    |          | 1650          |               | FT    | 5" XHW FIBERGLASS CONDUIT                                                                                                                         |         |          |         |          | 1650    |          |         |          | 5                         |

| NO. | DESCRIPTION                      | REV. BY | DATE       | NO. | DESCRIPTION                                  | REV. BY | DATE       |
|-----|----------------------------------|---------|------------|-----|----------------------------------------------|---------|------------|
| 2   | ADDED/CORRECTED ITEMS/QUANTITIES | DJC     | 11-12-2021 | 4   | FUNDING CODE CHANGE/ADDED ITEM/ REVISED ITEM | CWL/RFV | 11-29-2021 |

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**ESTIMATED QUANTITIES - EASTBOUND**

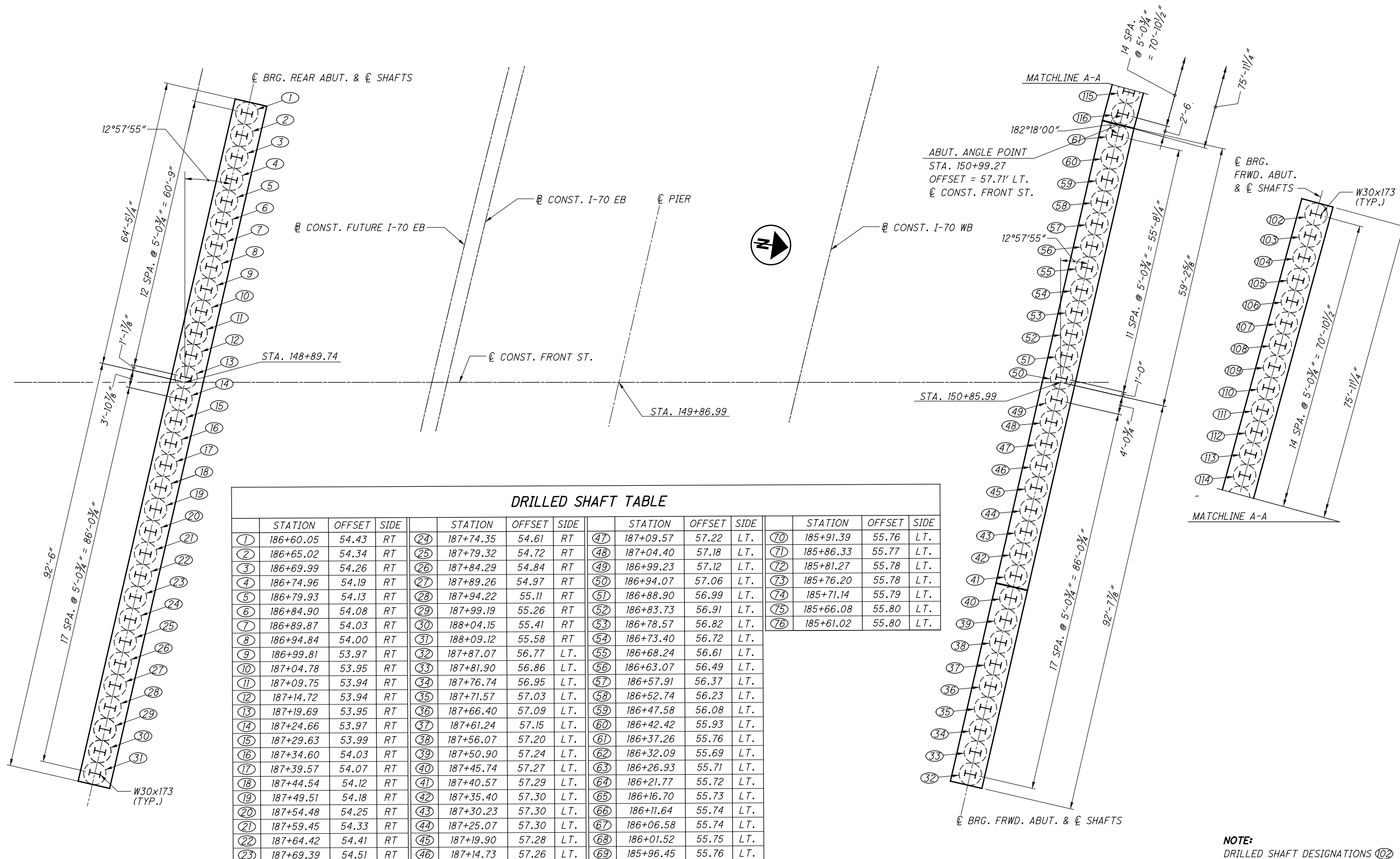
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S. FRONT STREET OVER I-70/71

FRA-70/71-12.68/14.86  
PID No. 105523

DESIGN AGENCY  
**GPD GROUP**  
Class, P.E., S.Hon., Burns & McDonnell, Inc.  
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DATE 9-6-19  
REVISED DGN 9-6-19  
DRAWN RFV  
DESIGNED RFV  
CHECKED DJC  
STRUCTURE FILE NUMBER 2510023

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| STATION   | OFFSET | SIDE | STATION   | OFFSET | SIDE | STATION   | OFFSET | SIDE | STATION   | OFFSET | SIDE |
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| 186+65.02 | 54.34  | RT   | 187+79.32 | 54.72  | RT   | 187+04.40 | 57.18  | LT.  | 185+86.33 | 55.77  | LT.  |
| 186+69.99 | 54.26  | RT   | 187+84.29 | 54.84  | RT   | 186+99.23 | 57.12  | LT.  | 185+81.27 | 55.78  | LT.  |
| 186+74.96 | 54.19  | RT   | 187+89.26 | 54.97  | RT   | 186+94.07 | 57.06  | LT.  | 185+76.20 | 55.78  | LT.  |
| 186+79.93 | 54.13  | RT   | 187+94.22 | 55.11  | RT   | 186+88.90 | 56.99  | LT.  | 185+71.14 | 55.79  | LT.  |
| 186+84.90 | 54.08  | RT   | 187+99.19 | 55.26  | RT   | 186+83.73 | 56.91  | LT.  | 185+66.08 | 55.80  | LT.  |
| 186+89.87 | 54.03  | RT   | 188+04.15 | 55.41  | RT   | 186+78.57 | 56.82  | LT.  | 185+61.02 | 55.80  | LT.  |
| 186+94.84 | 54.00  | RT   | 188+09.12 | 55.58  | RT   | 186+73.40 | 56.72  | LT.  |           |        |      |
| 186+99.81 | 53.97  | RT   | 187+87.07 | 56.77  | LT.  | 186+68.24 | 56.61  | LT.  |           |        |      |
| 187+04.78 | 53.95  | RT   | 187+81.90 | 56.86  | LT.  | 186+63.07 | 56.49  | LT.  |           |        |      |
| 187+09.75 | 53.94  | RT   | 187+76.74 | 56.95  | LT.  | 186+57.91 | 56.37  | LT.  |           |        |      |
| 187+14.72 | 53.94  | RT   | 187+71.57 | 57.03  | LT.  | 186+52.74 | 56.23  | LT.  |           |        |      |
| 187+19.69 | 53.95  | RT   | 187+66.40 | 57.09  | LT.  | 186+47.58 | 56.08  | LT.  |           |        |      |
| 187+24.66 | 53.97  | RT   | 187+61.24 | 57.15  | LT.  | 186+42.42 | 55.93  | LT.  |           |        |      |
| 187+29.63 | 53.99  | RT   | 187+56.07 | 57.20  | LT.  | 186+37.26 | 55.76  | LT.  |           |        |      |
| 187+34.60 | 54.03  | RT   | 187+50.90 | 57.24  | LT.  | 186+32.09 | 55.69  | LT.  |           |        |      |
| 187+39.57 | 54.07  | RT   | 187+45.74 | 57.27  | LT.  | 186+26.93 | 55.71  | LT.  |           |        |      |
| 187+44.54 | 54.12  | RT   | 187+40.57 | 57.29  | LT.  | 186+21.77 | 55.72  | LT.  |           |        |      |
| 187+49.51 | 54.18  | RT   | 187+35.40 | 57.30  | LT.  | 186+16.70 | 55.73  | LT.  |           |        |      |
| 187+54.48 | 54.25  | RT   | 187+30.23 | 57.30  | LT.  | 186+11.64 | 55.74  | LT.  |           |        |      |
| 187+59.45 | 54.33  | RT   | 187+25.07 | 57.30  | LT.  | 186+06.58 | 55.74  | LT.  |           |        |      |
| 187+64.42 | 54.41  | RT   | 187+19.90 | 57.28  | LT.  | 186+01.52 | 55.75  | LT.  |           |        |      |
| 187+69.39 | 54.51  | RT   | 187+14.73 | 57.26  | LT.  | 185+96.45 | 55.76  | LT.  |           |        |      |

NOTE: STATIONS AND OFFSETS FOR DRILLED SHAFT NOS. ① TO ③① GIVEN TO @ CONST. FUTURE I-70 EB  
 STATIONS AND OFFSETS FOR DRILLED SHAFT NOS. ③② TO ⑦⑥ GIVEN TO @ CONST. I-70 WB

NOTE:  
 DRILLED SHAFT DESIGNATIONS ⑩②  
 THRU ⑩⑥ ARE INCLUDED FOR  
 PAYMENT WITH BRIDGE NO.  
 FRA-70-1390C.

**5'-0" DIAMETER DRILLED SHAFT PLAN**

| NO. | DESCRIPTION                     | REV. BY | DATE       |
|-----|---------------------------------|---------|------------|
| 4   | DRILLED SHAFT REVISION AND NOTE | RFV     | 11-29-2021 |

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BRIDGE NO. FRA-70-1395C  
 S. FRONT STREET OVER I-70/71

DATE: 9-6-19  
 STRUCTURE FILE NUMBER: 2510023

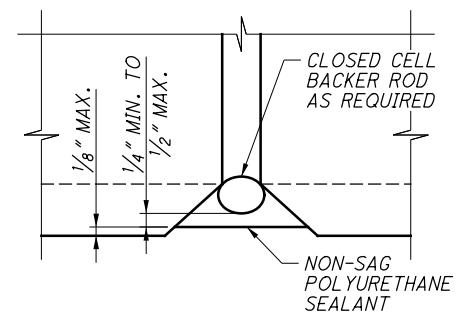
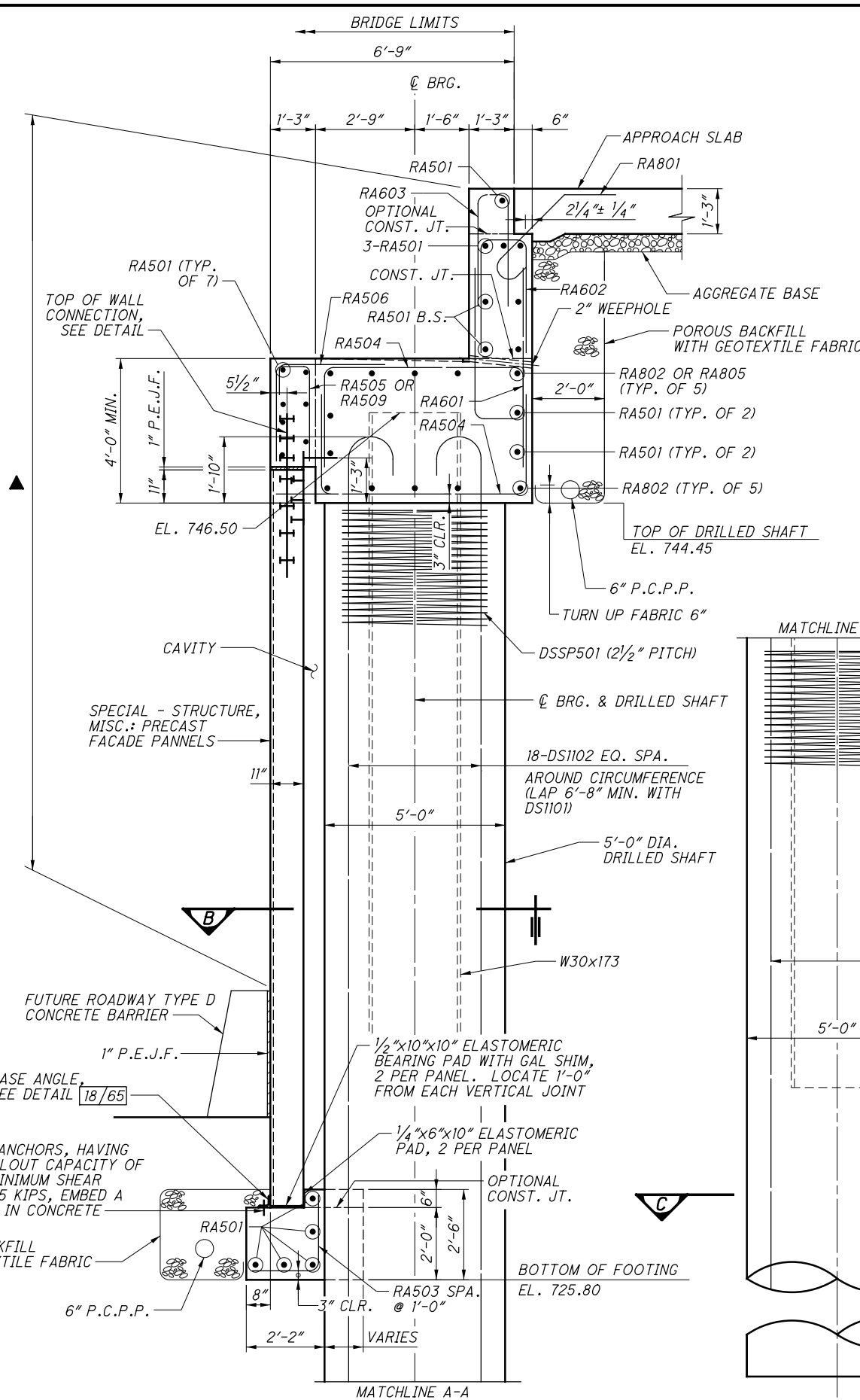
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 CHECKED: DJC

DRAWN: RFV  
 REVISED:

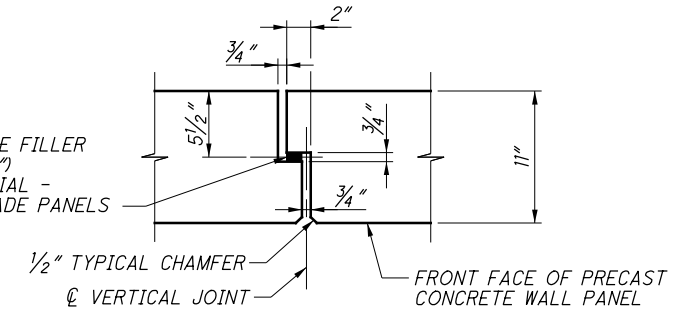
REVIEWED: T J W

NO. 9 / 65  
 1690 / 1815

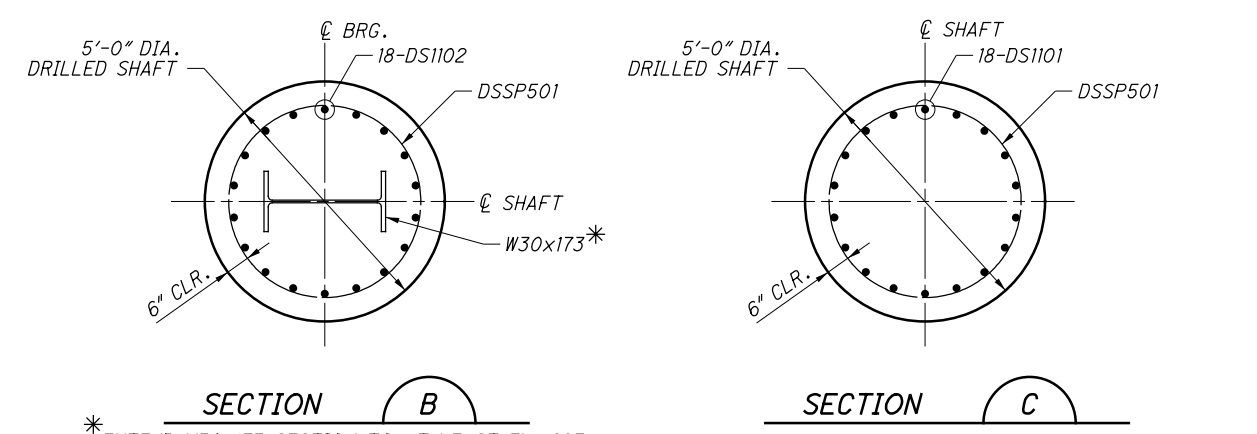
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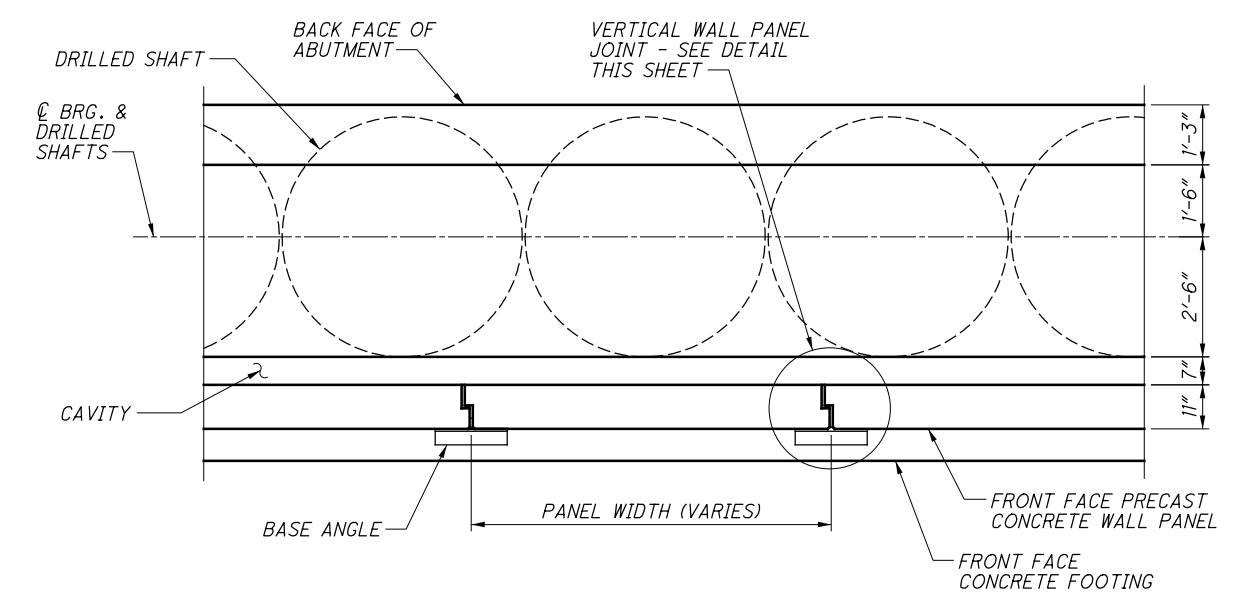
**CAULKING DETAIL**  
TYPICAL ALL PRECAST PANEL JOINTS



**VERTICAL WALL PANEL JOINT DETAIL**



\* EXTEND W30x173 SECTION TO AT LEAST EL. 697 (OR BELOW) AND PROJECT IT 2'-6" MIN. INTO THE BOTTOM OF THE ABUTMENT SHAFT CAP



**TYPICAL DRILLED SHAFT AND FOOTING PLAN**

**NOTES:**

- FOR PRECAST FACADE PANELS DETAILS, SEE SHT. NO. 18/65.
- FOR ABUTMENT DRAINAGE DETAIL, SEE SHT. NO. 19/65.
- FOR LOCATION OF SECTION A, SEE SHT. NOS. 11/65 & 12/65.
- POROUS BACKFILL WITH GEOTEXTILE FABRIC: 2'-0" x 2'-6" SHALL EXTEND Laterally TO THE ENDS OF THE 6" DIA. PERFORATED CORRUGATED PLASTIC PIPE IN FRONT OF THE WALL PANEL FOOTING.
- POROUS BACKFILL WITH GEOTEXTILE FABRIC SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND Laterally TO THE ENDS OF THE 6" DIA. PERFORATED CORRUGATED PLASTIC PIPE BEHIND THE ABUTMENT CAP ON TOP OF THE SHAFTS.
- W30x173 STEEL SECTION EMBEDDED IN THE THE ABUTMENT DRILLED SHAFTS TO BE INCLUDED FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 1. THE STEEL SHALL BE COATED WITH A SHOP APPLIED PRIME COAT CONFORMING TO CMS 514.

**LEGEND:**

▲ - INDICATES LIMITS OF ITEM 512 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

**SECTION A**

| NO. | DESCRIPTION     | REV. BY | DATE       |
|-----|-----------------|---------|------------|
| 4   | ADDITIONAL NOTE | RFV     | 11-29-2021 |

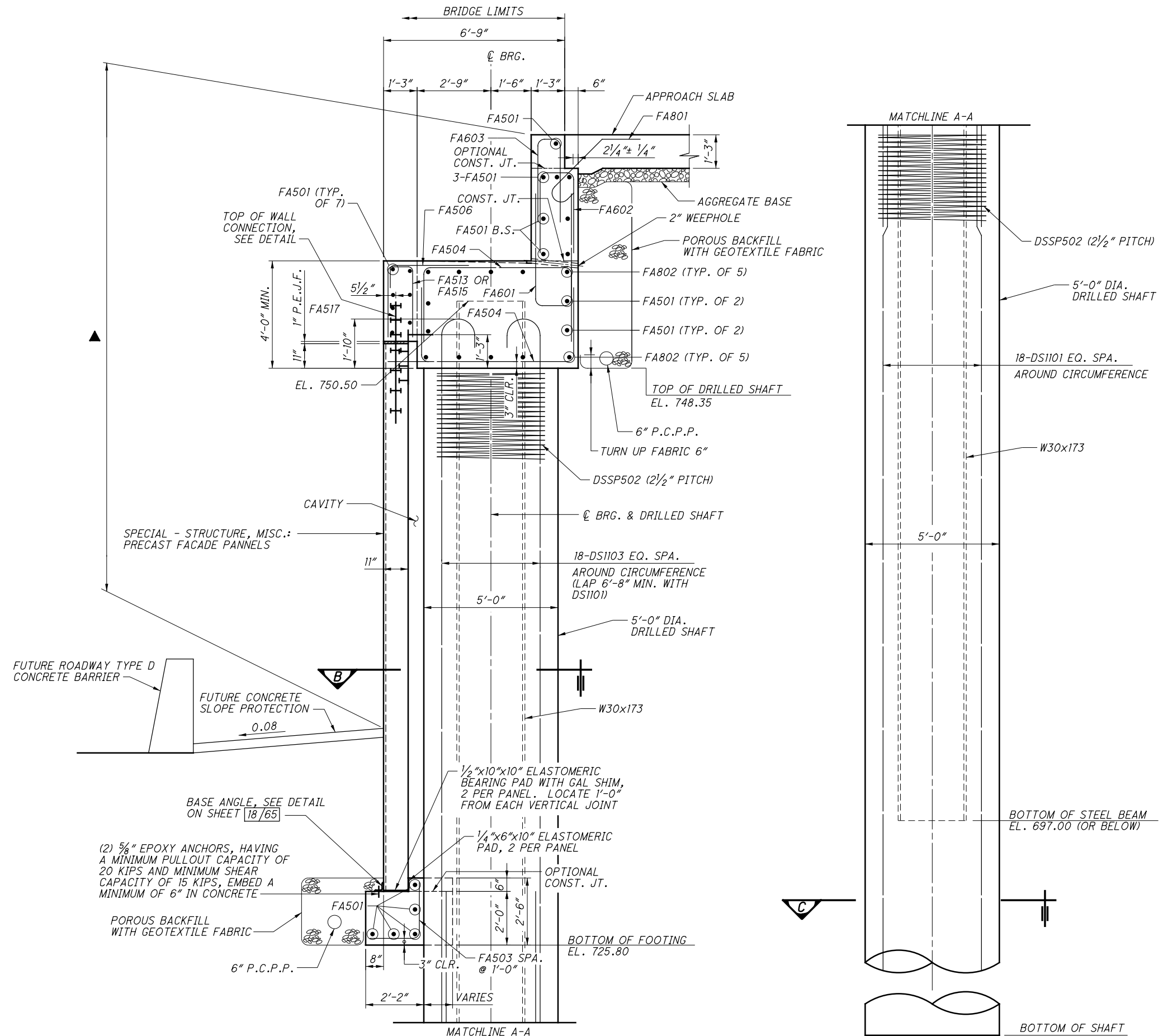
**DESIGN AGENCY**  
**GPD GROUP**  
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**REAR ABUTMENT SECTIONS**  
 BRIDGE NO. FRA-70-1395C  
 S. FRONT STREET OVER I-70/71

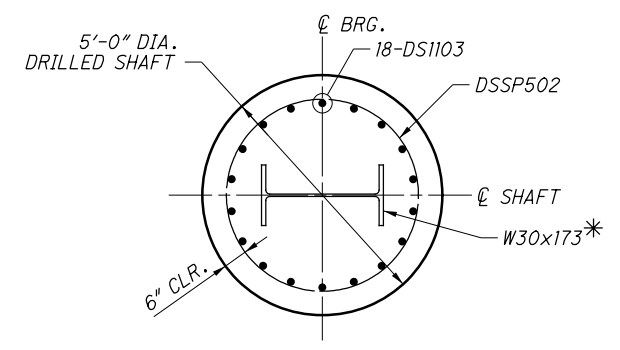
**DATE** 9-6-19  
**REVIEWED** T J W  
**STRUCTURE FILE NUMBER** 2510023  
**DRAWN** RFV  
**CHECKED** DJC  
**DESIGNED** DGN/RSN  
**REVISED**

**FRA-70/71-12.68 / 14.86**  
**PID No. 105523**  
 13 / 65  
 1694  
 1815

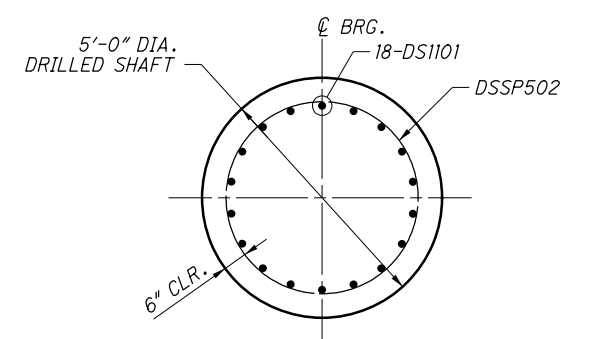
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**LEGEND:**  
 ▲ - INDICATES LIMITS OF ITEM 512 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)



**SECTION B**  
 \* EXTEND W30x173 SECTION TO AT LEAST EL. 697 (OR BELOW) AND PROJECT IT 2'-6" MIN. INTO THE BOTTOM OF THE ABUTMENT SHAFT CAP



**SECTION C**

- NOTES:**
- FOR PRECAST FACADE PANELS DETAILS, SEE SHT. NO. 18/65
  - FOR ABUTMENT DRAINAGE DETAIL, SEE SHT. NO. 19/65
  - FOR LOCATION OF SECTION D, SEE SHT. NOS. & 15/65 16/65
  - FOR VERTICAL WALL PANEL JOINT DETAIL, AND DRILLED SHAFT AND FOOTING PLAN DETAIL, SEE SHT. NO. 13/65.
  - W30x173 STEEL SECTION EMBEDDED IN THE THE ABUTMENT DRILLED SHAFTS TO BE INCLUDED FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 1. THE STEEL SHALL BE COATED WITH A SHOP APPLIED PRIME COAT CONFORMING TO CMS 514.

| NO. | DESCRIPTION     | REV. BY | DATE       |
|-----|-----------------|---------|------------|
| 4   | ADDITIONAL NOTE | RFV     | 11-29-2021 |

AE SUMMARY - FRONT STREET BRIDGE

| PLAN SHEET NUMBER |      |      |      |      |      | PARTICIPATION<br>04/MPO/OT | ITEM    | ITEM<br>EXT. | GRAND<br>TOTAL | UNIT | DESCRIPTION                                                                        | DETAIL<br>SHEET NO.                                                                                               |                                          |
|-------------------|------|------|------|------|------|----------------------------|---------|--------------|----------------|------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| 1750              | 1751 | 1753 | 1756 | 1757 | 1761 |                            |         |              |                |      |                                                                                    |                                                                                                                   |                                          |
|                   |      | 479  |      |      |      | 479                        | 605     | 98000        | 479            | FT   | UNDERDRAINS, MISC.: 4" PERFORATED PLANTER UNDERDRAIN                               | 1754                                                                                                              |                                          |
|                   |      | 16   |      |      |      | 16                         | 611     | 97200        | 16             | EACH | CONDUIT, MISC.: CLEANOUT STRUCTURE AND PLUG SET WITH 45° WYE                       | 1754                                                                                                              |                                          |
|                   |      | 2    |      |      |      | 2                          | 611     | 97200        | 2              | EACH | CONDUIT, MISC.: DRAINAGE OUTLET STRUCTURE                                          |                                                                                                                   |                                          |
|                   |      |      |      |      |      |                            |         |              |                |      |                                                                                    | 1781 to 1784                                                                                                      |                                          |
| 16                |      |      |      |      |      | 16                         | 625     | 98000        | 16             | EACH | LIGHTING, MISC.: RECESSED WALL LIGHT- TYPE 1                                       | 1781 to 1784                                                                                                      |                                          |
| 5                 |      |      |      |      |      | 5                          | 625     | 98000        | 5              | EACH | LIGHTING, MISC.: SEATWALL LIGHT TYPE 2                                             | 1781 to 1784                                                                                                      |                                          |
| 20                |      |      |      |      |      | 20                         | 625     | 98000        | 20             | EACH | LIGHTING, MISC.: TRELIS LIGHT TYPE 3                                               | 1781 to 1784                                                                                                      |                                          |
| 4                 |      |      |      |      |      | 4                          | SPECIAL | 63097700     | 4              | EACH | SIGNING, MISC.: BRIDGE PYLON ALUMINUM LETTERS                                      | 1811 and 1814                                                                                                     |                                          |
|                   |      |      |      |      |      | 774                        | 774     | 661          | 14001          | 774  | EACH                                                                               | PERENNIALS, LIRIOPE MUSCARI 'BIG BLUE'- BIG BLUE LILYTURF, AS PER PLAN                                            | 1222                                     |
|                   |      |      |      |      |      | 36                         | 36      | 661          | 20041          | 36   | EACH                                                                               | DECIDUOUS SHRUB. 2' HEIGHT, AS PER PLAN - HYDRANGEA QUERCIFOLIA 'MUNCHKIN'                                        | 1222                                     |
|                   |      |      |      |      |      | 82                         | 82      | 661          | 20041          | 82   | EACH                                                                               | DECIDUOUS SHRUB, 2' HEIGHT, AS PER PLAN - ROSA 'RADTKO'                                                           | 1222                                     |
|                   |      |      |      |      |      | 100                        | 100     | 661          | 30061          | 100  | EACH                                                                               | EVERGREEN SHRUB, 2' HEIGHT, AS PER PLAN - BUXUS X 'GREEN VELVET'                                                  | 1222                                     |
|                   |      |      |      |      |      | 55                         | 55      | 661          | 99900          | 55   | EACH                                                                               | PLANTING, MISC.: ORNAMENTAL GRASS, 24" HEIGHT, AS PER PLAN - CALAMAGROSTIS ACUTIFOLIA 'KARL FOERSTER'             | 1222                                     |
|                   |      |      |      |      |      | 430                        | 430     | 661          | 99900          | 430  | EACH                                                                               | PLANTING, MISC.; ORNAMENTAL GRASS, 6" HEIGHT FESTUCA GLAUCA 'ELIJAH BLUE', #1 CONTAINER                           | 1222                                     |
|                   |      |      |      |      |      | 28                         | 28      | 661          | 99900          | 28   | EACH                                                                               | PLANTING, MISC.; ORNAMENTAL GRASS, 24" HEIGHT, AS PER PLAN - SCHIZACHYRIUM SCOPARIUM 'SMOKE SIGNAL', #2 CONTAINER | 1222                                     |
|                   |      |      |      |      |      | 736                        | 736     | 661          | 99900          | 736  | EACH                                                                               | PLANTING, MISC.: 12-14 cm BULB, NARCISSUS 'SHERBORNE'- SHERBORNE DAFFODIL, AS PER PLAN                            | 1222                                     |
|                   |      |      |      |      |      | 430                        | 430     | 661          | 99900          | 430  | EACH                                                                               | PLANTING, MISC.; GROUND COVER, 12" SPREAD SEDUM RUPESTRE 'ANGELINA', #1 CONTAINER                                 | 1222                                     |
|                   |      |      |      |      |      | 350                        | 350     | 661          | 99900          | 350  | EACH                                                                               | PLANTING, MISC.; GROUND COVER, 8" SPREAD SEDUM HISPANICUM 'BLUE CARPET', #1 CONTAINER                             | 1222                                     |
|                   |      |      |      |      |      | 20                         | 20      | 661          | 99900          | 20   | EACH                                                                               | PLANTING, MISC: DECIDUOUS TREE, 14' HEIGHT, AS PER PLAN - MAGNOLIA VIRGINIANA 'JIM WILSON'                        | 1222                                     |
|                   |      |      |      |      |      | 59                         | 59      | 661          | 99900          | 59   | EACH                                                                               | PLANTING, MISC: EVERGREEN SHRUB, 18" SPREAD, AS PER PLAN - JUNIPERUS CONFERTA 'BLUE PACIFIC'                      | 1222                                     |
|                   |      |      |      |      |      |                            |         |              |                |      |                                                                                    |                                                                                                                   |                                          |
|                   |      |      |      |      |      | 2                          | SPECIAL | 68014550     | 2              | EACH | TRASH (LITTER) RECEPTACLE                                                          | 1785                                                                                                              |                                          |
|                   |      |      |      |      |      |                            |         |              |                |      |                                                                                    | 1785                                                                                                              |                                          |
|                   |      |      |      |      |      | 1                          | LS      | SPECIAL      | 68043100       | 1    |                                                                                    | COMPLETE IRRIGATION SYSTEM                                                                                        | 1798 to 1800                             |
|                   |      |      |      |      |      | 14                         | SPECIAL | 69098000     | 14             | EACH | FRONT STREET ALUMINUM PLANTER POT TYPE A                                           | 1771                                                                                                              |                                          |
|                   |      |      |      |      |      | 56                         | SPECIAL | 69098000     | 56             | EACH | SKATE GUARDS - TYPE A                                                              | 1767 to 1769                                                                                                      |                                          |
|                   |      |      |      |      |      | 143                        | SPECIAL | 69098000     | 143            | EACH | SKATE GUARDS - TYPE B                                                              | 1767 to 1769                                                                                                      |                                          |
|                   |      |      |      |      |      | 1                          | LS      | SPECIAL      | 69098400       | 1    |                                                                                    | ARCHITECTURAL PRECAST CONCRETE PLANTERS (FRONT ST BRIDGE)                                                         | 1801 to 1803                             |
|                   |      |      |      |      |      | 1                          | LS      | SPECIAL      | 69098400       | 1    |                                                                                    | COMPLETE PLANTER WATERPROOFING SYSTEM (FRONT ST BRIDGE)                                                           | 1804                                     |
|                   |      |      |      |      |      | 1                          | LS      | SPECIAL      | 69098400       | 1    |                                                                                    | ARCHITECTURAL TRELIS (FRONT ST BRIDGE)                                                                            | 1750 1766 1768<br>1769 1772<br>1776-1778 |
|                   |      |      |      |      |      | 1                          | LS      | SPECIAL      | 69098400       | 1    |                                                                                    | ILLUMINATED SCREEN WALL (FRONT ST BRIDGE)                                                                         | 1781 to 1784                             |
|                   |      |      |      |      |      | 295                        | SPECIAL | 69098700     | 295            | CY   | TREE AND PLANTS SOIL MIX FURNISHED & PLACED, AS PER PLAN (24" DEPTH UPPER HORIZON) | 1790 to 1793                                                                                                      |                                          |
|                   |      |      |      |      |      | 110                        | SPECIAL | 69098700     | 110            | CY   | TREE AND PLANTS SOIL MIX FURNISHED & PLACED, AS PER PLAN (9" DEPTH LOWER HORIZON)  | 1790 to 1793                                                                                                      |                                          |



LANDSCAPE ARCHITECTURE + URBAN PLANNING  
CALCULATED  
CHECKED

AESTHETIC ENHANCEMENTS SUMMARY

FRA-70/71-  
12.68/14.86

| NO. | DESCRIPTION               | REV. BY  | DATE       |
|-----|---------------------------|----------|------------|
| 4   | FUNDING SPLIT CODE CHANGE | MKSK/LHW | 11.26.2021 |

3486 - E

1748  
1815

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