UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AT&T
MS. PATRICIA HARRIS
700 HURON RD.
CLEVELAND, OH 44115
PHONE: (216) 822-6535
FAX: (216) 822-6560
E-MAIL: PH1924@ATT.COM

CENTURYLINK/INVOLTA
MR. BOBBY WALTERS
3801 ELM ROAD
WARREN, OH 44483
PHONE: (440) 244-8415
E-MAIL:
BOBBY.D.WALTERS@CENTURYLINK.COM

CITY OF AKRON
WATER DISTRIBUTION DIVISION
MR. TONY PUGLIA
1460 TRIPLET BLVD.
AKRON, OH 44306
PHONE: (330) 375-2420
EMAIL: TPUGLIA@AKRONOHIO.GOV

FIRST ENERGY (TRANSMISSION)
MR. DAVE KOZY
76 S. MAIN ST.
AKRON, OH 44308
PHONE: (330) 384-5194

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 4 - ITS
MS. MICHELLE CHANEY
2088 S. ARLINGTON RD.
AKRON, OH 44306
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OHIO DEPARTMENT OF TRANSPORTATION
CENTRAL OFFICE - ITS
1606 W. BROAD STREET
COLUMBUS, OH 43223
PHONE: (614) 387-4113
E-MAIL: cen.its.lab@dot.ohio.gov

SPRINT
MR. JOSEPH J. THOMAS
11370 ENTERPRISE PARK DR.
SHARONVILLE, OH 45241
PHONE: (440) 447-6163
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VERIZON
MR. AL GUEST
120 RAVINE ST.
AKRON, OH 44303
PHONE: (330) 253-8267
FAX: (918) 562-7014

OHIO EDISON (TRANSMISSION)
FIRST ENERGY SERVICE COMPANY SUPERVISOR,
TRANSMISSION MAINTENANCE
ATTN: RYAN GRADY
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(330) 413-2046 CELL
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DOMINION ENERGY OHIO
ATTN: MICAH RISACHER
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AKRON, OH 44333
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AT&T OHIO
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CITY OF AKRON
ENGINEERING BUREAU
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166 S. HIGH ST. ROOM 701
AKRON, OH 44308
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FAX: (330) 375-2288

DOMINION EAST OHIO GAS
MS. MARY J. LONG
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CENTURYLINK
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OHIO EDISON
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Millerdl@firstenergycorp.com

CHARTER COMMUNICTIONS
MR. JAMES LONG
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WINDSTREAM BUSINESS
MR. DWAYNE LAHMANN
10070 RUTH DR,
WADSWORTH, OH 44281
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ZAYO
MR. ERIK LICIS
4199 KINROSS LAKES PARKWAY SUITE #10
RICHFIELD, OH 44286
PHONE: (330) 237-3292
ERIK.LICIS@ZAYO.COM

WINDSTREAM OSP OHIO
LEON TAYLOR
2165 STATE ROUTE 133 SOUTH
BLANCHESTER, OHIO, 45107
937 725 5358

AKRON SEWER - CITY OF
ATTN: SCOTT DAVENPORT
2460 AKRON PENINSULA ROAD
AKRON, OH 44310
330-375-2769

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ODOT UTILITY COORDINATOR
MATT STEELE
330-786-4832

THE UNDERGROUND UTILITIES ON THIS PLAN HAVE BEEN LOCATED BY USING A SUBSURFACE UTILITY COMPANY (SUE), NATIONAL ENGINEERING& ARCHITECTURE SERVICES (NEAS). IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD MARKINGS AND WHAT THE PLAN INDICATED PLEASE CONTACT THE PROJECT UTILITY COORDINATE PRIOR TO ANY SUBSURFACE UTILITY WORK BEING INITIATED.

EXISTING PLANS

EXISTING PLANS ENTITLED SUM-8-0.63, SUM-8-1.73/1.95, SUM-8-2.23, SUM-8-1.99, SUM-8-0.38A, SUM-8-12.31, SUM-8-1.95, AND SUM-8-1.99 MAY BE INSPECTED IN THE ODOT DISTRICT 4 IN AKRON, OHIO

ENVIRONMENTAL COMMITMENTS

1. THE CONTRACTOR WILL ADVISE THE ODOT PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST ALSO PROVIDE NOTIFICATION TO THE ODOT PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO ANY LANE RESTRICTIONS/CLOSURES AND BRIDGE/RAMP CLOSURES. THE ODOT PROJECT ENGINEER WILL FORWARD THE INFORMATION TO THE ODOT-DISTRICT 4 OFFICE OF PUBLIC INFORMATION FOR USE TO NOTIFY EMERGENCY SERVICES AND COMMUNITIES A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE START OF PROJECT CONSTRUCTION. INCLUDED IN THIS NOTIFICATION WILL BE THE PROJECTED DATES/TIMES OF THE LANE RESTRICTIONS/CLOSURES, BRIDGE/RAMP CLOSURES AND PROPOSED DETOURS.

2. PRIOR TO BRIDGE DEMOLITION ACTIVITIES, THE UNDERSIDE OF THE EXISTING BRIDGE SHALL BE CAREFULLY EXAMINED FOR THE PRESENCE OF BATS, ESPECIALLY FROM APRIL 1 TO SEPTEMBER 30. IF ANY BATS ARE FOUND ROOSTING ON THE UNDERSIDE OF THE BRIDGE, THE ECOLOGICAL STAFF OF ODOT'S OFFICE OF ENVIRONMENTAL SERVICES AND ODOT DISTRICT 4 ENVIRONMENTAL STAFF SHALL BE CONTACTED UPON IDENTIFICATION.

3. ANY AREAS DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE RE-SEEDED/RE-VEGETATED WITH NATIVE PLANT SPECIES, INCLUDING NATIVE RIPARIAN TREE SPECIES, AND MULCHED DURING CONSTRUCTION TO ENCOURAGE ESTABLISHMENT OF NATIVE VEGETATION COVER, DECREASE EROSION AND PREVENT EROSION OF SEDIMENTS INTO WATERS OF THE U.S.

4. EXISTING RIPARIAN HABITAT ZONES SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE.

5. CONSTRUCTION EQUIPMENT AND MATERIAL STAGING AREAS SHALL BE KEPT AWAY FROM STREAMS TO THE EXTENT PRACTICABLE. THE MECHANICAL EQUIPMENT USED TO EXECUTE THE WORK AUTHORIZED HEREIN SHALL BE OPERATED IN A MANNER TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

6. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT CONSTRUCTION AND DEMOLITION DEBRIS FROM ENTERING THE STREAM(S). ANY DEBRIS THAT DOES FALL INTO THE STREAM(S) SHALL BE REMOVED AS SOON AS POSSIBLE.

7. ACCESS TO LOOKOUT PARK AND FREEDOM TRAIL WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES, EXCEPT AS NEEDED TO FACILITATE BRIDGE CONSTRUCTION OVER FREEDOM TRAIL.

8. EXCEPT AS NECESSARY TO FACILITATE CONSTRUCTION ACTIVITIES, THE STAGING AND/OR STORAGE OF CONSTRUCTION EQUIPMENT WILL NOT TAKE PLACE OUTSIDE PROPOSED CONSTRUCTION LIMITS THAT ARE WITHIN THE DEFINED BOUNDARIES OF LOOKOUT PARK, ADAMS PARK AND FREEDOM TRAIL.

9. NO TREES SHALL BE REMOVED WITHIN THE PROPOSED CONSTRUCTION FOOTPRINT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO PROTECTEC BAT SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

10. ANY AREAS OF DISTURBANCE THAT OCCUR WITHIN OR ADJACENT TO THE IDENTIFIED 4(F) PROPERTIES WILL BE RESTORED TO A CONDITION AS GOOD AS OR BETTER THAN EXISTING.

11. THE CONTRACTOR SHALL ABIDE BY ALL WATERWAY PERMIT CONDITIONS THROUGHOUT DURATION OF CONSTRUCTION ACTIVITIES.

12. A CO-PERMITTEE NOTICE OF INTENT (NOI) WILL BE PREPARED AND PROVIDED TO THE CONTRACTOR BY ODOT PERSONNEL AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE CO-PERMITTEE NOI FOR COVERAGE UNDER OHIO EPA STORMWATER CONSTRUCTION GENERAL PERMIT AND SUBMITTING TO OHIO EPA FOR APPROVAL, ALONG WITH THE DEVELOPMENT OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), BEFORE CONSTRUCTION ACTIVITY CAN TAKE PLACE. SPECIFICATIONS SET FORTH IN THE MOST CURRENT VERSION OF ODOT'S "CONSTRUCTION AND MATERIAL SPECIFICATIONS, LOCATION AND DESIGN MANUAL AND STANDARD DRAWINGS" SHALL BE USED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL, ALONG WITH ADDITIONAL PROTECTIVE MEASURES TO AVOID IMPACTS TO ADJACENT PROPERTIES, STREAMS AND WETLANDS FROM CONSTRUCTION ACTIVITIES.

13. THE CONTRACTOR SHALL RESTRICT WORK IN THE LITTLE CUYAHOGA RIVER BETWEEN DATES OF APRIL 15TH AND JUNE 30TH TO REDUCE THE IMPACTS TO INDIGENOUS AQUATIC SPECIES AND THEIR HABITAT.

14. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOOKOUT PARK AND ADAMS PARK AT ALL TIMES DURING CONSTRUCTION ACTIVITIES, EXCEPT FOR THE TIME NEEDED TO COMPLETE CERTAIN CONSTRUCTION ACTIVITIES THAT WOULD COMPROMISE SAFETY OF THE USERS OF LOOKOUT PARK.

15. THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING ALONG THE KNOWN BOUNDARIES OF LOOKOUT PARK, FREEDOM TRAIL, AND ADAMS PARK, WITHIN THE PROJECT CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE PUBLIC AND TO MINIMIZE IMPACTS TO THE PROPERTIES.

16. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL APPROPRIATE SIGNAGE TO ALERT USERS OF LOOKOUT PARK, FREEDOM TRAIL, AND ADAMS PARK, OF CONSTRUCTION ACTIVITIES, ANY ACCESS RESTRICTION OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS.

17. THE CONTRACTOR SHALL NOT STORE OR STAGE CONSTRUCTION EQUIPMENT OR MATERIALS WITHIN THE KNOWN BOUNDARIES OF LOOKOUT PARK, FREEDOM TRAIL, AND ADAMS PARK, OUTSIDE OF THE PROPOSED CONSTRUCTION LIMITS, WITH THE EXCEPTION OF AREA(S) IDENTIFIED BY THE OFFICIAL WITH JURISDICTION TO FACILITATE THE STORAGE AND STAGING OF EQUIPMENT.

18. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT (ODOT PROJECT ENGINEER), THE CITY OF AKRON (DIRECTOR OF PUBLIC SERVICE), AND SUMMIT METRO PARKS (CHIEF OF PLANNING AND DEVELOPMENT) 30 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

19. THE CONTRACTOR SHALL LIMIT THE TEMPORARY OCCUPANCY OF ADAMS PARK AND FREEDOM TRAIL TO TWO (2) NON-CONSECUTIVE SIX (6) MONTH PERIODS. A TEMPORARY PAVED CONNECTOR PATH TO BE USED AS A HAUL ROAD FOR CONSTRUCTION PURPOSES WILL BE BUILT WITHIN ADAMS PARK, INCLUDING A TEMPORARY PATH TO THE EAST OF THE HAUL ROAD THAT WILL CONNECT TO FREEDOM TRAIL.

21. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO FREEDOM TRAIL TO ADAMS PARK VIA THE TEMPORARY PATH LOCATED TO THE EAST OF THE HAUL ROAD AND INSTALL A BARRIER TO SEPARATE THE TWO PATHS.

FREEDOM TRAIL

THE CONTRACTOR SHALL BE REQUIRED TO REPAVE ANY SECTION OF THE FREEDOM TRAIL THAT HAS BEED DISTURBED DURING CONSTRUCTION OF ACCESS ROAD 1 PRIOR TO REOPENING THE TRAIL AFTER EACH OF THE TWO (2) SCHEDULED CLOSURES. QUANTITY HAS BEEN PROVIDED IN THE PLANS FOR AGGREGATE BASE COURSE AND ASPHALT SURFACE COURSE. THE CONTRACTOR SHALL UTILIZE THE EXISTING PLANS AND REFERENCE THE PROFILE GRADE IN THE AS-BUILT PLANS. THE CONTRACTOR SHALL INSTALL THE TRAIL AT A 1.50% CROSS SLOPE FOR THE LENGTH OF THE DISTURBANCE REGARDLESS OF THE EXISTING TRAIL CROSS SLOPE. THE CONTRACTOR SHALL TRANSITION THE CROSS SLOPE FROM THE NEWLY PAVED SECTION TO EXISTING OVER A MINIMUM LENGTH OF 15 FEET. ANY SECTION OF THE TRAIL THAT EXCEEDS 1.50% SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE PROJECT. SEE TYPICAL SECTIONS SHEET 10. THE CONTRACTOR SHALL RECORD VIDEO PRE AND POST CONSTRUCTION FOR RECORD OF THE TRAIL CONDITION

FOR RECORD PLAN INFORMATION REGARDING THE EXISITNG FREEDOM TRAIL CONTACT

SUMMIT METRO PARKS
975 TREATY LINE RD.
AKRON, OHIO 44313

ITEM SPECIAL - REMOVAL OF ELECTRICAL PLUGS

THIS ITEM OF WORK INCLUDES THE REMOVAL OF THE EXISTING GUARDRAIL MOUNTED RECEPTACLES USED FOR BUS MOTOR BLOCK HEATERS. THE CONTRACTOR SHALL CONTACT DEBRA FOULK AT THE AKRON CITY SCHOOLS BUS GARAGE AT (330) 761-2805 ONE WEEK PRIOR TO PERFORMING THE WORK. THE CONTRACTOR SHALL COORDINATE THE DISCONNECT OF THE POWER PRIOR TO PERFORMING THE WORK. THIS ITEM ONLY INCLUDES THE REMOVAL OF THE RECEPTACLES, CONDUIT AND CONDUCTOR NECESSARY. ALL MATERIAL SHALL BE RETURNED TO THE AKRON CITY SCHOOLS BUS GARAGE PERSONNEL OR DISPOSED OF PROPERLY. CONTRACTOR SHALL ENSURE THAT THE REMAINING RECEPTACLES ARE IN PROPER WORKING CONDITION UPON COMPLETION OF THE WORK. THIS WORK INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO REMOVE THE PORTION OF THE EXITING SYSTEM, AND SHALL BE PAID UNDER:

ITEM SPECIAL - REMOVAL OF ELECTRICAL PLUGS

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEETOF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD:
MONUMENT TYPE:

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: 2012a

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011 (EPOCH: 2010.0000)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO NORTH ZONE (3401)
COMBINED SCALE FACTOR: 0.9998951776
ORIGIN OF COORDINATE SYSTEM: (X,Y) - EASTING (X): 0
-NORTHING (Y): 0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST 2 EACH
659, TOPSOIL 4233 CU. YD.
659, SEEDING AND MULCHING, CLASS 2: 38139 SQ. YD.
659, REPAIR SEEDING AND MULCHING 1907 SQ. YD
659, INTER-SEEDING 1907 SQ. YD.
659, COMMERCIAL FERTILIZER 5.32 TON
659, LIME 7.88 ACRES
659, WATER 216 M. GAL.
659, MOWING 86 M. SQ. FT.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING 209, LINEAR GRADING, AS PER PLAN, AND PAVING UNDER THE GUARDRAIL USING 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN.

ITEM 209, LINEAR GRADING, AS PER PLAN, SHALL CONSIST OF EXCAVATING TOPSOIL, AND PLACING GRANULAR MATERIAL.

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 105.17.

THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 441 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING METHODS:

METHOD A:
1. SET GUARDRAIL POSTS
2. PLACE ITEM 441

METHOD B:
1. PLACE ITEM 441
2. BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)
3. SET GUARDRAIL POSTS
4. PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING MAY BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM ALL WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 441, ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN.

LOCATIONS FOR PAVING UNDER GUARDRAIL ARE SHOWN IN THE PLANS AND ARE AS FOLLOWS:

SR8 NB STA. 541+29.89 TO STA. 545+92.31 RT.
SR8 NB STA. 541+29.89 TO STA.543+07.69 LT.
SR8 SB STA. 215+22.99 TO STA. 219+55.24 LT.
SR8 SB STA. 222+60.76 TO STA. 224+62.84 RT.
SR8 SB STA. 241+41.84 TO STA. 258+61.20 RT.
RAMP J STA. 415+38.84 TO STA. 415+98.80 LT.
RAMP J STA. 420+94.25 TO STA. 424+64.76 RT.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET 729

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

   IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

3. COMPACT THE SUBGRADE ACCORDING TO 204.03.

4. 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.

   PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.

5. 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.

6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.

7. 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.

PAVEMENT SUBGRADE IMPROVEMENT SCHEDULE

ALIGNMNET	BEGIN STATION	END STATION	SUBGRADE METHOD	DEPTH	UNDERCUT REASON
RAMP I	STA 13+72.00 RT/LT	STA 16+23.00 RT/LT	UNDERCUT	24"	UNSUITABLE
RAMP J	STA 416+50.00 RT/LT	STA 420+00.00 RT/LT	UNDERCUT	24"	UNSUITABLE

ITEM 253 - PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12"± 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED BEFORE THE COMPLETION OF MAINLINE PAVEMENT PLANING. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 253 - PAVEMENT REPAIR 685 SY

ITEM SPECIAL - SURVEY CONTROL VERIFICATION

THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS BELOW DEPENDENT UPON THE CONTRACTOR'S CHOSEN MEANS OF SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN OHIO LICENSED SURVEYOR.

1. IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
   a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
   b. PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED IN THE PLAN.
   c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSESD SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.
2. IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
   a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
   b. LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL AVAILABLE HORIZONTAL CONTROL POINTS PROVIDE IN THE PLAN
   c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

CALCULATED DLT CHECKED HRB

GENERAL NOTES

SUM-8-1.75

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 611 DRAINAGE STRUCTURES.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449): 3 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 8 INCHES AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF THE DRAINAGE STRUCTURE.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 601, TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT 5 SQ. YD.
ITEM 611 6" CONDUIT, TYPE F 100 FT.
ITEM 611 PRECAST REINFORCED CONCRETE OUTLET 5 EACH
ITEM 605 6" UNCLASSIFIED PIPE UNDERDRAINS 100 FT.

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED PER 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449): 16 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 8 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

DOMINION ENERGY

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION ENERGY'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION ENERGY OHIO'S (DEO) EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES, ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE EXISTING DEO FACILITY.

PLEASE CONTACT DOMINION ENERGY OHIO'S CORROSION DEPARTMENT: DAVE CUTLIP (330-266-2121), RICK MCDONALD (330-266-2122), OR AL HUMRICHOUSER (330-478-3757).

DEO = DOMINION ENERGY OHIO, 1-800-362-7557

FIRST ENERGY (TRANSMISSION)

NO WORK SHALL BE PERFORMED WITHIN 25 FEET OF FIRST ENERGY STRUCTURES, INCLUDING GUY WIRES AND GUY ANCHORS. THIS RESTRICTION INCLUDES, BUT IS NOT LIMITED TO, GRADING FOR ACCESS ROADS, SHORING INSTALLATION, EVACUATION AND EQUIPMENT TRAVEL.

OBSERVE ALL OSHA AND NESC WORKING CLEARANCES WHEN WORKING IN PROXIMITY TO FIRSTENERGY FACILITIES.

DO NOT RESTRICT ACCESS TO FIRST ENERGY STRUCTURES BEFORE OR AFTER CONSTRUCTION.

TEMPORARY DRAINAGE ITEMS

TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED ON THE MOT NOTES. PAYMENT FOR FURNISHING, INSTALLING AND REMOVAL OF TEMPORARY DRAINAGE SHALL BE INCLUDED WITH THE LUMP SUM PAYMENT FOR ITEM 615 - ROADS FOR MAINTAINING TRAFFIC.

ITEM 611 - CATCH BASIN, NO. 3, AS PER PLAN

WHERE PLANS CALL FOR A CATCH BASIN, NO. 3 AS PER PLAN IN AN AREA WHERE CURB, TYPE 4-C IS IDENTIFIED THE CONTRACTOR SHALL FURNISH A 4" CASTING TO BE USED AT THE CURB.

ITEM 611 - CATCH BASIN, NO. 3A, AS PER PLAN

WHERE PLANS CALL FOR A CATCH BASIN, NO. 3A AS PER PLAN IN AN AREA WHERE CURB, TYPE 4-C IS IDENTIFIED THE CONTRACTOR SHALL FURNISH A 4" CASTING TO BE USED AT THE CURB.

ITEM 878 - INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS

FOR INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS REFER TO SS878.

DEMOLITION OF BUILDING APPURTENANCES

BUILDINGS LOCATED AT THE LOCATIONS LISTED AT THE BOTTOM OF THIS NOTE HAVE BEEN PREVIOUSLY DEMOLISHED.

WORK TO BE COMPLETED UNDER THIS CONTRACT IS THE DEMOLITION OF THE REMAINING BUILDING APPURTENANCES PER 202.06 OF THE CMS. THIS SHALL INCLUDE THE DEMOLITION, DEBRIS REMOVAL, CLEARING AND BACKFILLING ON THE PARCEL SITE OF THE BUILDING APPURTENANCES, INCLUDING, BUT NOT LIMITED TO, ALL ITEMS SUCH AS FENCES, LIGHT POLES, GUARDRAILS, POSTS, SEPTIC TANKS, CISTERNS, WELLS, DRIVEWAYS, DRIVE PIPES, PARKING LOTS, BUILDING SLABS, GARAGES, SHEDS, COMPLETE REMOVAL OF SLAB FOUNDATIONS, AND BASEMENTS, UNLESS OTHERWISE STATED. MAKE ARRANGEMENTS WITH UTILITY COMPANIES AND REMOVE SERVICE LINES AND CONNECTIONS. REGULATED UNDERGROUND STORAGE TANKS ARE TO BE REMOVED PER 202.08 OF CMS. DEMOLITION OF SEPTIC SYSTEM(S) IS TO MEET THE REQUIREMENTS OF THE SUMMIT COUNTY BOARD OF HEALTH. THE CONTRACTOR IS RESPONSIBLE FOR COSTS ASSOCIATED WITH OBTAINING PERMITS AND ACCEPTANCE FROM THE BOARD OF HEALTH ($80 PER PERMIT- COST TO BE VERIFIED BY THE CONTRACTOR) AND ALL WORK ASSOCIATED WITH COMPLETION OF THE PERMIT REQUIREMENTS FOR ABANDONMENT OF THE SEPTIC SYSTEM(S).

PRIOR TO BEGINNING BACKFILL OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER FOR A PRELIMINARY INSPECTION OF THE SITE AND APPROVAL TO PROCEED WITH BACKFILL OPERATIONS. UNDER NO CIRCUMSTANCES WITH THE CONTRACTOR PROCEED OR CONTINUE WITH BACKFILL OPERATIONS WITHOUT THE PROJECT ENGINEER'S APPROVAL. UPON COMPLETION OF DEMOLITION, BACKFILLING OPERATIONS SHALL PROCEED WITHIN 48 HOURS AND SHALL BE COMPLETED WITHIN 72 HOURS OF THE BUILDING DEMOLITION.

AFTER ALL REMOVALS AND BACKFILLING OPERATIONS ARE COMPLETE, DISTURBED AREAS SHALL BE SEEDED AND MULCHED PER ITEM 659 OF CMS.

ALL PERMITS, REMOVAL, EMBANKMENT MATERIAL, SEEDING AND MULCHING, AND ALL OTHER INCIDENTALS REQUIRED TO COMPLETE THIS WORK WILL BE INCLUDED IN ITEM 202, BUILDING DEMOLISHED, APPURTENANCES THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

365 N. ADAMS ST. , PARCEL 6741032, APPURTENANCES
325 ARCH ST. , PARCEL 6741935, APPURTENANCES
329 ARCH ST. , PARCEL 6830430, APPURTENANCES
414 N. ADAMS ST. , PARCEL 6736290, APPURTENANCES
415 E. NORTH ST. , PARCEL 6700017, APPURTENANCES
451 E. NORTH ST. , PARCEL 6715813, APPURTENANCES
369 HARRIS ST. , PARCEL 6743824, APPURTENANCES
353 HARRIS ST. , PARCEL 6721358, APPURTENANCES
565 PARKVIEW AVE. , PARCEL 6836758, APPURTENANCES
569 PARKVIEW AVE , PARCEL 6840337, APPURTENANCES
573 PARKVIEW AVE. , PARCEL 6824643, APPURTENANCES
575 PARKVIEW AVE , PARCEL 6717641, APPURTENANCES
581 PARKVIEW AVE , PARCEL 6825925, APPURTENANCES
585 PARKVIEW AVE , PARCEL 6855399, APPURTENANCES

ASPHALT PAVING LIMITATION

THE CONTRACTOR SHALL NOT ANTICIPATE OR SCHEDULE PLACING ASPHALT (ASPHALT SURFACE COURSE, ASPHALT INTERMEDIATE COURSE, ASPHALT CONCRETE BASE, ETC.) BETWEEN NOVEMBER 1 AND APRIL 1 WHEN SUBMITTING THEIR INITIAL BAR CHART PROGRESS SCHEDULE TO THE DISTRICT CONSTRUCTION ENGINEER (DCE) AS SPECIFIED IN CMS SECTION 108.02A. THIS LIMITATION SHALL ALSO INCLUDE INITIAL BASE LINE SCHEDULES AND ALL UPDATES IF A CPM SCHEDULE IS REQUIRED.

CALCULATED DLT
CHECKED HRB

GENERAL NOTES

SUM-8-1.75

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 mm, TYPE A (447), AS PER PLAN

703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

ITEM SPECIAL - MISC.: VERTICAL CLEARANCE

AFTER ALL CONSTRUCTION HAS BEEN COMPLETED, A REGISTERED SURVEYOR WILL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM (AVAILABLE IN THE DISTRICT 4 STRUCTURES AND PAVEMENT OFFICE). THE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT 4 STRUCTURES AND PAVEMENT ENGINEER. THE RECORD SHALL BEAR THE SEAL OF THE LICENSED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS. THIS WORK SHALL BE PERFORMED AT THE FOLLOWING STRUCTURES: SUM-8-1.75 (PERKINS STREET)

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

SPECIAL - MISC.: VERTICAL CLEARANCE, 1 EACH

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

ITEM 607 FENCE, TYPE CLT, AS PER PLAN

THE CONTRACTOR SHALL INSTALL CHAIN LINK FENCING AT THE LOCATIONS IDENTIFIED IN THE LANDSCAPE LAYOUT PLANS. THE FENCING SHALL MEET THE REQUIREMENTS OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWING F-1.1, WITH THE FOLLOWING MODIFICATIONS:

- THE FENCE SHALL BE 60 INCHES TALL.
- ALL WIRE FABRIC, POSTS AND ACCESSORIES WILL BE GALVANIZED AND PVC COATED. THE PVC COATING SHALL BE BLACK IN COLOR, CLOSELY APPROACHING FEDERAL STANDARD NO. 27038.

ALL PVC FABRIC AND POSTS SHALL BE HANDLED WITH CARE. IF THE PVC COATING IS DAMAGED, THE CONTRACTOR SHALL REPLACE THE DAMAGED ITEM OR REPAIR THE PVC COATING AS DIRECTED BY THE ENGINEER AT NO COST TO THE DEPARTMENT.

THIS WORK SHALL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO INSTALL THE FENCING AND SHALL BE PAID FOR UNDER THE UNIT BID PRICE FOR:

ITEM 607 FENCE, TYPE CLT, AS PER PLAN (FT)

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO. 13 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 31 HOUR.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

ITEM 611 - CONDUIT UNDER RAILROAD

THE PROPOSED STORM SEWER CONDUITS BENEATH THE ACTIVE W&LE, AND THE ACTIVE AKRON METRO RTA RAILROAD TRACKS SHALL BE BORED OR JACKED, AND WILL BE PAID FOR AT THE CONTRACT PRICE UNDER:

ITEM 611 - CONDUIT, BORED OR JACKED, 36"

THE PROPOSED STORM SEWER CONDUIT BENEATH THE INACTIVE AKRON METRO RTA RAILROAD TRACKS MAY BE INSTALLED BY BORE/JACK OR BY OPEN CUT TRENCH, AND WILL BE PAID FOR AT THE CONTRACT PRICE UNDER:

ITEM 611 - CONDUIT, MISC.: 36" CONDUIT UNDER RAILROAD

THE CONTRACTOR SHALL FOLLOW ODOT CMS 611, AND THE RAILROAD CLAUSES AND PERMIT PROCESS TO PERFORM THESE CONDUIT INSTALLATIONS.

ITEM 202 - REMOVAL MISC.: RETAINING WALL REMOVED

REMOVE THE EXISTING RETAINING WALL WHEN THE EXISTING FENCE IS REMOVED. THE SQUARE FOOTAGE OF THE EXISTING RETAINING WALL IS BASED ON SURVEYED ELEVATIONS FROM THE TOP OF THE WALL TO THE EXISTING GROUND SURFACE. ALL WORK AND PAYMENT ASSOCIATED WITH THE REMOVAL OF THE RETAINING WALL SHALL BE IN CONFORMANCE WITH ODOT CMS 202.01, 202.02, 202.03 AND 202.13.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS PER PLAN.

ITEM SPECIAL - AS-BUILT CONSTRUCTION RECORD DRAWINGS

PRIOR TO FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL FURNISH THE DEPARTMENT FORMAL AS-BUILT CONSTRUCTION RECORD-DRAWING PLANS. THE FORMAL AS-BUILT CONSTRUCTION RECORD-DRAWING SHALL INCLUDE ALL RED-LINED CHANGES. RED-LINE CHANGE SHALL BE DENOTED UTILIZING CLOUDING IN MICROSTATION (OR OTHER CAD SOFTWARE) OR CLOUDING IN PDF EDITING SOFTWARE. THE AS-BUILT CONSTRUCTION RECORD-DRAWING SHALL HAVE A SIGNED VERIFICATION ON THE TITLE SHEET FROM THE CONTRACTOR INDICATING THAT ALL RED-LINED AND FIELD CHANGES HAVE BEEN INCORPORATED INTO AS-BUILT CONSTRUCTION RECORD-DRAWINGS.

THE CONTRACTOR$^{5}/_{32}$S VERIFICATION STATEMENT INDICATES ALL KNOWN FIELD MODIFICATIONS MADE HAVE BEEN INCLUDED IN THE FORMAL RECORD-DRAWING. THE CONTRACTOR$^{5}/_{32}$S VERIFICATION STATEMENT SHALL BE SIGNED BY THE CONTRACTOR$^{5}/_{32}$S PROJECT MANAGER (OR ACCEPTABLE REPRESENTATIVE).

IN ADDITION TO THE INFORMATION SHOWN ON THE CONSTRUCTION PLANS, THE AS- BUILT CONSTRUCTION RECORD-DRAWINGS SHALL SHOW THE FOLLOWING:

1. ALL DEVIATIONS FROM THE ORIGINAL APPROVED CONSTRUCTION PLANS WHICH RESULT IN A CHANGE OF LOCATION, MATERIAL, TYPE OR SIZE OF WORK.
2. ANY UTILITIES, PIPES, WELLHEADS, ABANDONED PAVEMENTS, FOUNDATIONS OR OTHER MAJOR OBSTRUCTIONS DISCOVERED AND REMAINING IN PLACE WHICH ARE NOT SHOWN, OR DO NOT CONFORM TO LOCATIONS OR DEPTHS SHOWN IN THE PLANS. UNDERGROUND FEATURES SHALL BE SHOWN AND LABELED ON THE RECORD-DRAWING PLAN IN TERMS OF STATION, OFFSET AND ELEVATION.
3. THE FINAL OPTION AND SPECIFICATION NUMBER SELECTED FOR THOSE ITEMS WHICH ALLOW SEVERAL MATERIAL OPTIONS UNDER THE SPECIFICATION (E.G., CONDUIT).
4. CHANGES TO THE PAY ITEMS AND FINAL QUANTITIES AS PAID SHALL BE SHOWN ON THE GENERAL SUMMARY AND SUBSUMMARIES.
5. ADDITIONAL PLAN SHEETS MAY BE NEEDED IF NECESSARY TO SHOW WORK NOT INCLUDED IN THE CONSTRUCTION PLANS. IF ADDITIONAL PLAN SHEETS ARE NEEDED, THEY ARE REQUIRED TO BE PREPARED IN CONFORMANCE WITH THE LOCATION AND DESIGN MANUAL, VOLUME 3, SECTION 1200 - PLAN PREPARATION.

NOTATION SHALL ALSO BE MADE OF LOCATIONS AND THE EXTENT OF USE OF MATERIALS, OTHER THAN SOIL, FOR EMBANKMENT CONSTRUCTION (ROCK, BROKEN CONCRETE WITHOUT REINFORCING STEEL, ETC.).

THE PLAN INDEX SHALL SHOW THE PLAN SHEETS WHICH HAVE CHANGES APPEARING ON THEM.

TWO COPIES OF THE AS-BUILT CONSTRUCTION RECORD-DRAWINGS SHALL BE DELIVERED TO THE PROJECT ENGINEER FOR APPROVAL UPON COMPLETION OF THE PHYSICAL WORK BUT PRIOR TO THE REQUEST FOR FINAL PAYMENT. AFTER THE DEPARTMENT HAS APPROVED THE AS-BUILT CONSTRUCTION RECORD-DRAWINGS, THE ASSOCIATED ELECTRONIC FILES SHALL BE DELIVERED TO THE DISTRICT CAPITAL PROGRAMS ADMINISTRATOR. ACCEPTANCE OF THESE PLANS AND DELIVERY OF THE ASSOCIATED ELECTRONIC FILES IS REQUIRED PRIOR TO THE WORK BEING ACCEPTED AND THE FINAL ESTIMATE APPROVED.

PAYMENT FOR ALL THE ABOVE SHALL BE LUMP SUM UPON PROPER EXECUTION OF ALL WORK OF THIS ITEM AS DETERMINED BY THE PROJECT ENGINEER.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE J, ASTM D4956 TYPE XI REFLECTIVE SHEETING, PER CMS 730.193.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 607 - FENCE MISC.: BIKE PATH RAILING

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING BIKE PATH RAILING ACCORDING TO THE DETAIL ON SHEET 314 .

THIS WORK SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

THIS WORK SHALL BE PAID FOR UNDER ITEM 607 - FENCE MISC.: BIKE PATH RAILING.

INTERIM PAVEMENT

DUE TO THE DURATION OF PROJECT CONSTRUCTION AND NOT WANTING TO DAMAGE THE SURFACE COURSE OF SOUTHBOUND SR 8 A SACRIFICIAL SURFACE COURSE SHALL BE PLACED ON THE SOUTHBOUND LANES DURING THE CONSTRUCTION PHASES TO BE PLANED OFF AT THE END OF CONSTRUCTION. THE FINAL WEARING COURSE WILL THEN BE PLACED ON NORTHBOUND AND SOUTHBOUND AT THE SAME TIME. THE INTERIM SURFACE COURSE BUILD- UP IS:

ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448)
713 CY
ITEM 442 - 2" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A, (448)
143 CY
ITEM 254 - PAVEMENT PLANNING, ASPHALT CONCRETE, VARIABLE DEPTH (3.25" MAX)
20534 SY

CONNECT TO EXISTING HEADWALL

THE CONTRACTOR SHALL REMOVE THE EXISTING 42" PIPE COMPLETELY FROM THE EXISTING HEADWALL. THE PROPOSED 42" PIPE SHALL BE PUT INTO THE HEADWALL AND GROUTED IN PLACE TO SECURE THE PROPOSED PIPE. ANY DAMAGE TO THE EXISTING HEADWALL SHALL BE REPAIRED BY THE CONTRACTOR.

CALCULATED DNO
CHECKED HRB

GENERAL NOTES

SUM-8-1.75

PHASE 1D (SHEETS 90-95)

WORK THIS PHASE:

SR-8 SOUTHBOUND

-REMOVE PORTIONS OF THE EXISTING SOUTHBOUND PAVEMENT AND BUILD PORTIONS OF SOUTHBOUND PAVEMENT AND DRAINAGE TO THE WEST OF EXISTING PAVEMENT ON NEW ALIGNMENT.

SR-8 MAINLINE

-REMOVE PORTIONS OF THE EXISTING CONCRETE MEDIAN BARRIER AND BUILD TEMPORARY PAVEMENT AND DRAINAGE FOR CROSSOVERS BETWEEN NORTH AND SOUTHBOUND SR-8.

MAINTENANCE OF TRAFFIC:

SR-8 SOUTHBOUND

-MAINTAIN 3 LANES OF TRAFFIC ON EXISTING, PROPOSED AND TEMPORARY PAVEMENT AND THE NEW SOUTHBOUND BRIDGE.

SR-8 NORTHBOUND

-SEE PHASE 1A AND PRE-PHASE 1B SOUTH OF EXISTING BRIDGE.
-NORTH OF THE EXISTING BRIDGE SHIFT TRAFFIC EAST AND MAINTAIN 3 LANES OF TRAFFIC ON EXISTING PAVEMENT.

RAMP B (GLENWOOD AVENUE SOUTHBOUND ENTRANCE RAMP)

-RAMP OPEN TO TRAFFIC.

PHASE 2A - SUBPHASE 1 (SHEETS 96-101)

WORK THIS PHASE:

SR-8/RAMP J (PERKINS STREET NORTHBOUND ENTRANCE RAMP)

-REMOVE PORTIONS OF THE EXISTING RAMP J PAVEMENT AND BUILD TEMPORARY RAMP TO CROSSOVER RAMP J TRAFFIC TO SOUTHBOUND SIDE OF SR-8.

MAINTENANCE OF TRAFFIC:

SR-8 SOUTHBOUND

-SAME AS PHASE 1D.

SR-8 NORTHBOUND

-CROSSOVER ALL MAINLINE NORTHBOUND LANES TO THE SOUTHBOUND PAVEMENT. MAINTAIN 3 LANES ON EXISTING, PROPOSED AND TEMPORARY PAVEMENT. NORTHBOUND THROUGH LANES UTILIZE NEW SOUTHBOUND BRIDGE.

RAMP J (PERKINS STREET NORTHBOUND ENTRANCE RAMP)

-RAMP TO REMAIN OPEN AT ALL TIMES BY USE OF EXISTING PAVEMENT AND BRIDGE. NORTH OF BRIDGE CROSSOVER AND MERGE RAMP TRAFFIC WITH NORTHBOUND THROUGH LANES.

RAMP A (GLENWOOD AVENUE NORTHBOUND EXIT RAMP)

-CLOSE THE RAMP PER MT-101.60 AND DETOUR TRAFFIC PER DETOUR PLAN SHEET 59.

PHASE 2A - SUBPHASE 2 (SHEETS 102-108)

WORK THIS PHASE:

SR-8 NORTHBOUND

-DEMOLISH EXISTING TRUSS BRIDGE AND REMOVE PORTIONS OF THE EXISTING NORTHBOUND ROADWAY. BUILD THE PROPOSED NORTHBOUND BRIDGE AND PORTION OF THE NEW ROADWAY, DRAINAGE AND OTHER INCIDENTALS.

RAMP J (PERKINS STREET NORTHBOUND ENTRANCE RAMP)

-BUILD PORTIONS OF THE PROPOSED RAMP ROADWAY. OMIT CONSTRUCTION OF THE INTERSECTION WITH PERKINS STREET WHICH IS TO BE COMPLETED NEXT PHASE.

MAINTENANCE OF TRAFFIC:

SR-8 SOUTHBOUND

-SAME AS PHASE 1D.

SR-8 NORTHBOUND

-SAME AS PHASE 2A-SP1.

RAMP J (PERKINS STREET NORTHBOUND ENTRANCE RAMP)

-RAMP TO REMAIN OPEN AT ALL TIMES BY USE OF TEMPORARY RAMP CONSTRUCTED LAST PHASE.

PERKINS STREET

-CLOSE WESTBOUND CURB LANE WITH DRUMS PER MT-95.31.
-MAINTAIN SIGNALIZATION WITH RAMP J AT ALL TIMES.

EAST NORTH STREET

-CLOSE PER MT-101.60 AS REQUIRED FOR BRIDGE CONSTRUCTION AND DETOUR TRAFFIC PER DETOUR PLAN ON SHEET 56.

RAMP A (GLENWOOD AVENUE NORTHBOUND EXIT RAMP)

-CLOSE THE RAMP PER MT-101.60 AND DETOUR TRAFFIC PER DETOUR PLAN SHEET 59.

FREEDOM TRAIL

-CLOSE TRAIL PER MT-110.10 AS REQUIRED FOR BRIDGE CONSTRUCTION AND DETOUR TRAFFIC PER DETOUR PLAN ON SHEETS 61.

PHASE 2A - SUBPHASE 3 (SHEET 109-115)

WORK THIS PHASE:

SR-8 NORTHBOUND

-REMOVE PORTIONS OF THE EXISTING NORTHBOUND ROADWAY. BUILD PORTION OF THE NEW ROADWAY, DRAINAGE AND OTHER INCIDENTALS. BUILD TEMPORARY PAVEMENT TO BE UTILIZED IN PHASE 2B.

RAMP J (PERKINS STREET NORTHBOUND ENTRANCE RAMP)

-REMOVE REMAINING PORTIONS OF EXISTING RAMP ROADWAY AND BUILD REMAINING PORTIONS OF THE PROPOSED RAMP.

MAINTENANCE OF TRAFFIC:

SR-8 SOUTHBOUND

-SAME AS PHASE 1D.

SR-8 NORTHBOUND

-SAME AS PHASE 2A-SP1.

RAMP J (PERKINS STREET NORTHBOUND ENTRANCE RAMP)

-CLOSE THE RAMP PER MT-101.60 AND DETOUR TRAFFIC PER SHEET 58.
-WHEN RAMP IS COMPLETE OPEN TO TRAFFIC AT ALL TIMES.

PERKINS STREET

-CLOSE WESTBOUND CURB LANE WITH DRUMS PER MT-95.31.
-MAINTAIN SIGNALIZATION WITH RAMP J AT ALL TIMES.

EAST NORTH STREET

-OPEN TO TRAFFIC.

PHASE 2B (SHEETS 116-121)

WORK THIS PHASE:

SR-8

-REMOVE REMAINING PORTIONS OF THE EXISTING PAVEMENT AND TEMPORARY CROSSOVERS. BUILD REMAINING PORTION OF NEW ROADWAY, SHOULDERS AND MEDIAN. RESTORE EXISTING MEDIAN BARRIERS REMOVED FOR CROSSOVERS. MILL TEMPORARY SURFACE OF SOUTHBOUND SR-8 AND PLACE FINAL SURFACE COURSE AND PAVEMENT MARKINGS FOR BOTH DIRECTIONS OF TRAFFIC.

RAMP J (PERKINS STREET NORTHBOUND ENTRANCE RAMP)

-REMOVE TEMPORARY PAVEMENT AND CONSTRUCT PERMANENT CURB OMITTED IN PREVIOUS PHASES.

MAINTENANCE OF TRAFFIC:

SR-8 SOUTHBOUND

-SAME AS PHASE 1D. CLOSE LANES DURING OFF PEAK PERIODS PER MT-95.30 TO COMPLETE RESURFACING AND PAVEMENT MARKING WORK. ~~TRAFFIC SHALL BE PLACED~~ IN FINAL CONFIGURATION BY JUNE 30, 2028.

SR-8 NORTHBOUND

-MAINTAIN 3 LANES OF TRAFFIC ON PROPOSED PAVEMENT AND TEMPORARY PAVEMENT BUILT IN PREVIOUS PHASES. ALL LANES ARE ON NORTHBOUND PAVEMENT. TRAFFIC SHALL BE PLACED IN FINAL CONFIGURATION BY SEPTEMBER 30, 2027.

RAMP J (PERKINS STREET NORTHBOUND ENTRANCE RAMP)

-CLOSE SHOULDER WITH DRUMS TO COMPLETE CURB RETURN WORK.

RAMP A (GLENWOOD AVENUE NORTHBOUND EXIT RMAP)

-RAMP OPEN TO TRAFFIC.

PERKINS STREET

-CLOSE WESTBOUND CURB LANE WITH DRUMS PER MT-95.31.
-MAINTAIN SIGNALIZATION WITH RAMP J AT ALL TIMES.

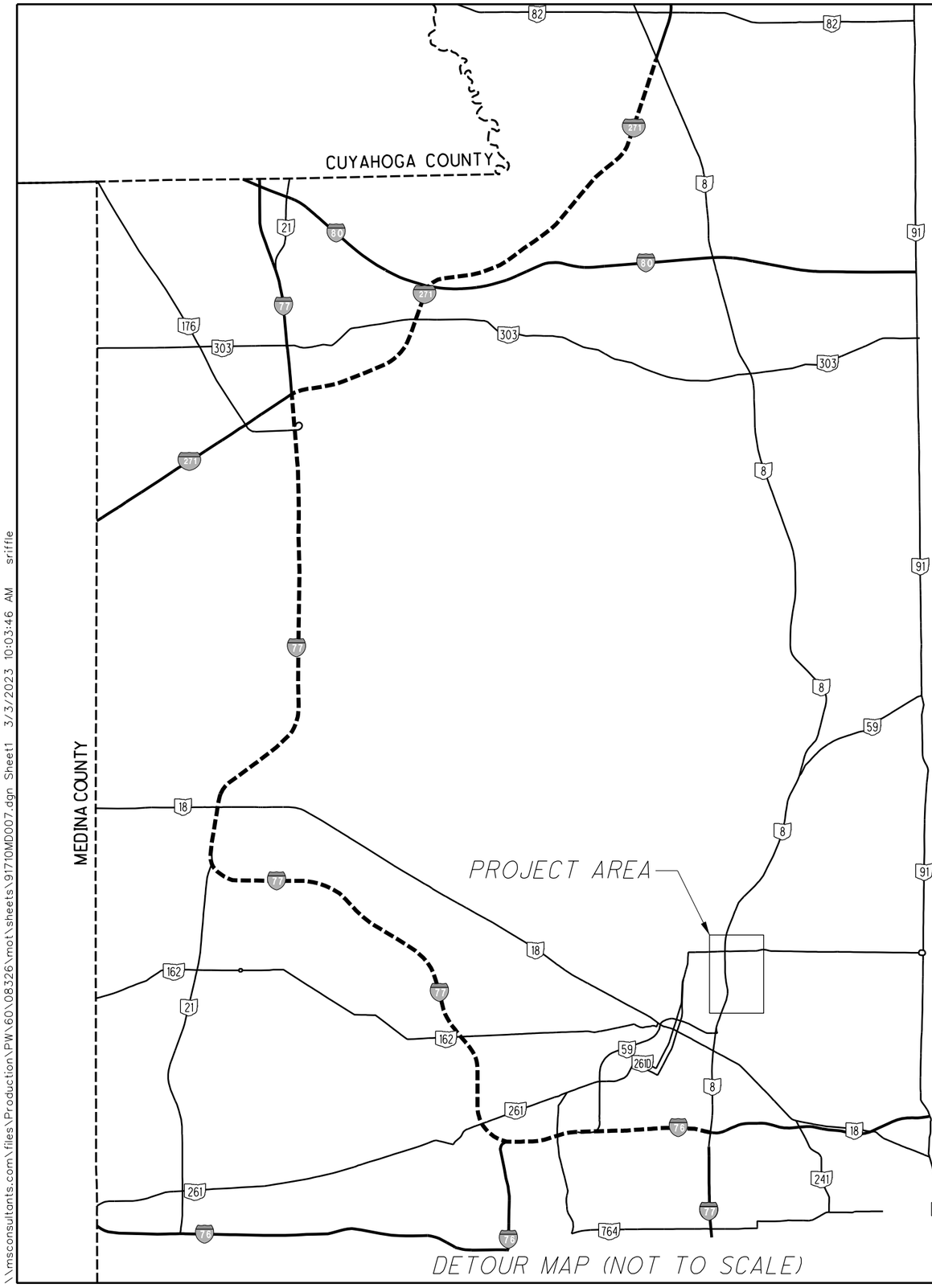
FREEDOM TRAIL

-CLOSE TRAIL PER MT-110.10 AS REQUIRED FOR BRIDGE CONSTRUCTION, PLAZA CONSTRUCTION AND DETOUR TRAFFIC PER DETOUR PLAN ON SHEETS 61.

CALCULATED MTD
CHECKED MTR

MAINTENANCE OF TRAFFIC NOTES

SUM-8-1.75



DETOUR MAP (NOT TO SCALE)

SR-8 FULL CLOSURE FOR BRIDGE DEMOLITION WITH EXPLOSIVES

IF THE CONTRACTOR ELECTS TO UTILIZE EXPLOSIVE DEMOLITION TO REMOVE THE EXISTING SUM-8-0195 STRUCTURE PER THE PROVISIONS IN THE STRUCTURES PLANS THE FOLLOWING MAINTENANCE OF TRAFFIC SHALL BE UTILIZED.

SR-8 SHALL BE CLOSED FOR A MAXIMUM OF 3 HOURS. CLOSURE SHALL TAKE PLACE ON A SUNDAY MORNING BETWEEN THE HOURS OF 8 A.M. TO 11 A.M. ANY CLOSURE THAT EXCEEDS THE LIMITS SPECIFIED ABOVE SHALL BE SUBJECT TO LIQUIDATED DAMAGES IN THE AMOUNT OF $500 DOLLARS PER MINUTE PER LANE. THE POSTED DETOUR ROUTE SHALL FOLLOW THE ROUTE HIGHLIGHTED ON THE DETOUR MAP ON THIS SHEET. IN LIEU OF DETOUR SIGNAGE P.C.M.S SHALL BE UTILIZED. SEE BELOW FOR MORE DETAILS.

SR-8 SOUTHBOUND CLOSURE DETAILS:
SR-8 SB SHALL BE CLOSED PER MT-99.50. LOCAL ACCESS ALONG SR-8 SB SHALL BE MAINTAINED TO TALLMADGE AVENUE THE POINT OF THE FULL CLOSURE. ENTRANCE RAMPS AT CUYAHOGA FALLS AVENUE, HOWE AVENUE AND GLENWOOD AVENUE SHALL BE CLOSED PER MT-101.60. A P.C.M.S. SHALL BE PLACED AT EACH CLOSURE POINT PROVIDING DIRECTION ON DETOUR ROUTE TO BE UTILIZED.

SR-8 NORTHBOUND CLOSURE DETAILS:
SR-8 NB SHALL BE CLOSED PER MT-99.50. SOUTH OF THE CENTRAL INTERCHANGE NORTHBOUND TRAFFIC SHALL BE RESTRICTED TO THE OUTSIDE TWO (2) LANES. AS THOSE LANES APPROACH THE I-77NB TO I-76WB SYSTEM RAMP A SLIP LANE FROM THE LEFT LANE SHALL BE IMPLEMENTED TO ALLOW FOR LOCAL ACCESS TO SR-8 NB TO PERKINS STREET WHERE THE FULL CLOSURE IS IMPLEMENTED. LOCAL ACCESS ALONG SR-8 NB NORTH OF THE CENTRAL INTERCHANGE SHALL CONSIST OF 1 LANE ONLY. DRUMS SHALL BE PLACED AT 50 FOOT SPACES TO KEEP TRAFFIC CONTAINED IN THAT SINGLE LANE. ENTRANCE RAMPS AT BUCHTEL AVENUE AND PERKINS STREET SHALL BE CLOSED PER MT-101.60. A P.C.M.S. SHALL BE PLACED AT EACH CLOSURE POINT PROVIDING DIRECTION ON DETOUR ROUTE TO BE UTILIZED.

ADVANCED NOTIFICATION OF FULL CLOSURE:
IN ADDITION TO THE NOTIFICATION REQUIREMENTS INCLUDED IN THE MAINTENANCE OF TRAFFIC NOTES, THE CONTRACTOR SHALL PLACE P.C.M.S. ALONG SR-8 IN BOTH DIRECTIONS 14 DAYS IN ADVANCE OF THE CLOSURE TO NOTIFY THE TRAVELLING PUBLIC. TWO (2) P.C.M.S. SHALL BE PLACED IN BOTH DIRECTIONS. EXACT PLACEMENT AND MESSAGE SHALL BE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ALSO PROVIDE 30 DAY ADVANCED WRITTEN NOTICE TO THE FOLLOWING CHURCHES: WESLEY TEMPLE AME ZION CHURCH, HOLY TRINITY LUTHERAN CHURCH, HAVEN OF REST MINISTRIES, FIRST CONGREGATIONAL CHURCH OF AKRON, FIRST UNITED METHODIST CHURCH OF AKRON, ANNUCIATION GREEK ORTHODOX CHURCH, THE CHAPEL (AKRON CAMPUS), CITIZENS AKRON, CELEBRATION CHURCH, EVANGEL TEMPLE, FOREST HILL COMMUNITY CHURCH AND BLESSED TRINITY.

DETOUR SIGNAGE AND PLAN:
IN LIEU OF PERMANENT SIGNAGE P.C.M.S. SHALL BE UTILIZED TO TRAIL BLAZE THE DETOUR ROUTE. FOR BIDDING PURPOSES, THE CONTRACTOR SHALL ASSUME A TOTAL OF 20 P.C.M.S. WILL BE NEEDED. THE LOCATIONS ALONG THE DETOUR ROUTE WILL BE COORDINATED AND DETERMINED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL SUPPLY THE ENGINEER A DETOUR PLAN SHOWING P.C.M.S. LOCATIONS AND MESSAGES TO BE DISPLAYED A MINIMUM OF 45 DAYS PRIOR TO THE PLANNED CLOSURE FOR APPROVAL.

BASIS OF PAYMENT:
ALL COSTS OF LABOR, MATERIALS AND EQUIPMENT TO FACILITATE THE ABOVE WORK SHALL BE MADE WITH THE LUMP SUM PAYMENT FOR ITEM 614 - MAINTAINING TRAFFIC, MISC.: SR-8 FULL CLOSURE FOR DEMOLITION OF EXISTING STRUCTURE WITH EXPLOSIVES. ALL LEOS REQUIRED FOR THE FULL CLOSURE INCLUDING LANE CLOSURES, DEMOLITION PERIMETER CONTROL, AND OTHER SECURITY DETAIL WILL BE INCLUDED WITH THE LUMP SUM PAYMENT OF THIS ITEM AND NO SEPARATE PAYMENT WILL BE MADE.

CALCULATED MTD
CHECKED MTR

MAINTENANCE OF TRAFFIC
FULL CLOSURE DETAILS

SUM-8-1.75

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Ohio DOT Workspace
SUM-8

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By: srifle

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SHEET NUM.											PART.					ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
13	161	162	163	166	335	335A	431	462	519	OFFICE CALCULATIONS	01/BRO/11	02/NHS/31	04/NHS/04	05/S>2/04	06/NHS/04						
																				ROADWAY	
LUMP								LUMP					LUMP			201	11000	LS		CLEARING AND GRUBBING	
		1											1			202	20010	1	EACH	HEADWALL REMOVED	
	1,895									41,497			42,569	823		202	23000	43,392	SY	PAVEMENT REMOVED	
					358	20							378			202	30000	378	SF	WALK REMOVED	
		56											56			202	30600	56	SY	CONCRETE MEDIAN REMOVED	
	1,046	2,019											3,065			202	30700	3,065	FT	CONCRETE BARRIER REMOVED	
		2,169											1,111	1,058		202	32000	2,169	FT	CURB REMOVED	
	2,482	1,092											2,048	236	1,290	202	35100	3,574	FT	PIPE REMOVED, 24" AND UNDER	
	11	138											149			202	35200	149	FT	PIPE REMOVED, OVER 24"	
	870	3,404											4,146	128		202	38000	4,274	FT	GUARDRAIL REMOVED	
	1	1											2			202	47000	2	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
	17	14											26		5	202	58000	31	EACH	MANHOLE REMOVED	
	17	11											15	2	11	202	58100	28	EACH	CATCH BASIN REMOVED	
	2	3											4		1	202	58200	5	EACH	INLET REMOVED	
	162	639											287		514	SPECIAL	20270000	801	FT	FILL AND PLUG EXISTING CONDUIT	14
	4,139	2,109											5,259	989		202	75000	6,248	FT	FENCE REMOVED	
				1									1			202	75254	1	EACH	GATE REMOVED FOR REUSE	
				579									579			202	75266	579	FT	VANDAL PROTECTION FENCE REMOVED AND RESET	
					LUMP								LUMP			202	98000	LS		REMOVAL MISC.: PIPE ABANDONED - 8-INCH, CITY OF AKRON	336-338
						LUMP							LUMP			202	98000	LS		REMOVAL MISC.:8-INCH WATERLINE AND GATE VALVE REMOVED, COMPLETE, CITY OF AKRON	340
						LUMP							LUMP			202	98000	LS		REMOVAL MISC.:PIPE ABANDONED - 6-INCH, CITY OF AKRON	340
					3								3			202	98100	3	EACH	REMOVAL MISC.: MANHOLE REMOVED, CITY OF AKRON	336-338
						4							4			202	98100	4	EACH	REMOVAL MISC.:FIRE HYDRANT AND 6-INCH GATE VALVE ASSEMBLY REMOVED, COMPLETE, CITY OF AKRON	340
					524	142							666			202	98200	666	FT	REMOVAL MISC.: PIPE REMOVED - 6-INCH, CITY OF AKRON	336-338,340
					746								746			202	98200	746	FT	REMOVAL MISC.: PIPE REMOVED - 8-INCH, CITY OF AKRON	336-338
	220												220			202	98400	220	SF	REMOVAL MISC.: RETAINING WALL REMOVED	15
										45,462			33,728	11,734		203	10000	45,462	CY	EXCAVATION	
										63,807			62,849	958		203	20000	63,807	CY	EMBANKMENT	
									6,145		6,145					203	20001	6,145	CY	EMBANKMENT, AS PER PLAN	519
									200		200					203	35110	200	CY	GRANULAR MATERIAL, TYPE B	
				56						55,921			54,058	1,919		204	10000	55,977	SY	SUBGRADE COMPACTION	
										1,149			474	675		204	13000	1,149	CY	EXCAVATION OF SUBGRADE	
										1,149			474	675		204	30010	1,149	CY	GRANULAR MATERIAL, TYPE B	
										30			29	1		204	45000	30	HOUR	PROOF ROLLING	15
										1,723			711	1,012		204	50000	1,723	SY	GEOTEXTILE FABRIC	
										1,723			711	1,012		204	51000	1,723	SY	GEOGRID	
				3,988									3,675	313		606	15050	3,988	FT	GUARDRAIL, TYPE MGS	
				6									5	1		606	26150	6	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
				8									8			606	26550	8	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				7									6	1		606	35002	7	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				3									3			606	35102	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
				2,812									2,799	13		607	23000	2,812	FT	FENCE, TYPE CLT	
				240								240				607	23001	240	FT	FENCE, TYPE CLT, AS PER PLAN	15
				1									1			607	61200	1	EACH	GATE, TYPE CLT	
				717									717			607	98000	717	FT	FENCE, MISC.:BIKE PATH RAILING	14
			2,969		358	20	1,116					1,116	3,347			608	10000	4,463	SF	4" CONCRETE WALK	
			3,254										3,254			608	30000	3,254	SF	AGGREGATE WALK	
			444										444			608	52000	444	SF	CURB RAMP	
			73										73			608	53020	73	SF	DETECTABLE WARNING	
			1,156										1,156			622	10140	1,156	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	
			68										68			622	10141	68	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1, AS PER PLAN	313

CALCULATED DNO
CHECKED HRB

GENERAL SUMMARY

SUM-8-1.75

153
801

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Ohio DOT Workspace
SUM-8

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34" x 22"

View: FENCE_VIEW1
By: srifle

SHEET NUM. 13	14	15	16	17	161	163	164	165	168	169	326	520	729	OFFICE CALCULATIONS	PART. 01/BRO/11	04/NHS/04	05/S>2.04	06/NHS/04	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																							ROADWAY CONTINUED	
						1,213										1,213			622	10160	1,213	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
						3										3			622	10200	3	EACH	BARRIER TRANSITION	
						5										5			622	25000	5	EACH	CONCRETE BARRIER END SECTION, TYPE D	
						36										36			622	25014	36	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	
						8										8			622	25050	8	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
													15			15			623	40520	15	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	13
																LUMP			878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	14
					LUMP											LUMP			SPECIAL	69098400	LS		REMOVAL OF ELECTRICAL PLUGS	12
		1														1			SPECIAL	69098600	1	EACH	MISC. VERTICAL CLEARANCE	15
											LUMP				LUMP				SPECIAL	69098400	LS		CONSTRUCTION ACCESS ROAD 1	326
											LUMP				LUMP				SPECIAL	69098400	LS		CONSTRUCTION ACCESS ROAD 2A	326
											LUMP				LUMP				SPECIAL	69098400	LS		CONSTRUCTION ACCESS ROAD 3A	326
											LUMP				LUMP				SPECIAL	69098400	LS		CONSTRUCTION ACCESS ROAD 5A	326
											LUMP				LUMP				SPECIAL	69098400	LS		CONSTRUCTION ACCESS ROAD 6A	326
											LUMP				LUMP				SPECIAL	69098400	LS		CONSTRUCTION ACCESS ROAD 6B	326
											LUMP				LUMP				SPECIAL	69098400	LS		CONSTRUCTION ACCESS ROAD 8	326
				LUMP											LUMP				SPECIAL	69098400	LS		CONSTRUCTION VIDEO MONITORING	17
LUMP															LUMP				SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION	13
																							EROSION CONTROL	
						1,182										1,182			601	11000	1,182	SY	RIPRAP, TYPE D	
						34										34			601	12000	34	SY	RIPRAP, WITH GROUT	
												875			875				601	20010	875	CY	CRUSHED AGGREGATE SLOPE PROTECTION	
							6									6			601	32200	6	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
2																2			659	00100	2	EACH	SOIL ANALYSIS TEST	13
4,233																4,233			659	00300	4,233	CY	TOPSOIL	13
														38,139		33,055	5,084		659	00510	38,139	SY	SEEDING AND MULCHING, CLASS 2	13
1,907																1,907			659	14000	1,907	SY	REPAIR SEEDING AND MULCHING	13
1,907																1,907			659	15000	1,907	SY	INTER-SEEDING	13
5.32																5.32			659	20000	5.32	TON	COMMERCIAL FERTILIZER	13
7.88																7.88			659	31000	7.88	ACRE	LIME	13
216																216			659	35000	216	MGAL	WATER	13
86																86			659	40000	86	MSF	MOWING	13
						2,936										2,196	740		670	00710	2,936	SY	DITCH EROSION PROTECTION MAT, TYPE A	
																LUMP			832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
																LUMP			832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
																LUMP			832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
																82,000			832	30000	82,000	EACH	EROSION CONTROL	
						178										178			836	10000	178	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
						298										298			836	10020	298	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 2	
																							ENVIRONMENTAL / REMEDIATION	
			LUMP													LUMP			SPECIAL	69098400	LS		SITE SPECIFIC HEALTH AND SAFETY PLAN	16
			1,050													1,050			SPECIAL	69098700	1,050	CY	EXCAVATION OF REGULATED MATERIALS AND DISPOSAL	16
																							DRAINAGE	
							2									2			602	20000	2	CY	CONCRETE MASONRY	
									5,408	2,704						6,366	1,746		605	11100	8,112	FT	6" SHALLOW PIPE UNDERDRAINS	
	100								462	83						645			605	13300	645	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
									6,485	3,619						9,921	183		605	14000	10,104	FT	6" BASE PIPE UNDERDRAINS	
								41								41			605	31100	41	FT	AGGREGATE DRAINS	
									520	214						626	108		611	00510	734	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	100															100			611	01500	100	FT	6" CONDUIT, TYPE F	
								36								36			611	02000	36	FT	8" CONDUIT, TYPE C	
								122								122			611	02600	122	FT	8" CONDUIT, TYPE F	
								10										10	611	04400	10	FT	12" CONDUIT, TYPE B	
								212								201		11	611	04600	212	FT	12" CONDUIT, TYPE C	
							528	448										976	611	05900	976	FT	15" CONDUIT, TYPE B	

CALCULATED DNO
CHECKED HRB

GENERAL SUMMARY

SUM-8-1.75

154
801

SHEET NUM.													PART.					ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
13	14	15	161	162	163	164	165	166	335	335A	519	OFFICE CALCULATIONS	01/BRO/11	04/NHS/04	05/S>2/04	06/NHS/04	07/S>2/04						
																						DRAINAGE CONTINUED	
						334	355							475		214		611	06100	689	FT	15" CONDUIT, TYPE C	
						98								56	42			611	06700	98	FT	15" CONDUIT, TYPE F	
						137	61									131	67	611	07400	198	FT	18" CONDUIT, TYPE B	
						807	224							831	200			611	07600	1,031	FT	18" CONDUIT, TYPE C	
						241								202	39			611	09100	241	FT	21" CONDUIT, TYPE C	
						295								29		266		611	10400	295	FT	24" CONDUIT, TYPE B	
						428								190		238		611	10600	428	FT	24" CONDUIT, TYPE C	
						53										53		611	11200	53	FT	24" CONDUIT, TYPE F	
						814										814		611	16400	814	FT	36" CONDUIT, TYPE B	
						76	164							208		32		611	16600	240	FT	36" CONDUIT, TYPE C	
							240							240				611	19600	240	FT	42" CONDUIT, TYPE C	
							142							142				611	96600	142	FT	CONDUIT, BORED OR JACKED, 36"	15
										16				16				611	97400	16	FT	CONDUIT, MISC.: 4-INCH STORM LATERAL, CITY OF AKRON	340
						63								63				611	97400	63	FT	CONDUIT, MISC.: 36" CONDUIT UNDER RAILROAD	15
						1	2								1	2		611	98150	3	EACH	CATCH BASIN, NO. 3	
						3	2							3		2		611	98151	5	EACH	CATCH BASIN, NO. 3, AS PER PLAN	14
						4										4		611	98181	4	EACH	CATCH BASIN, NO. 3A, AS PER PLAN	14
						13	3							9	2	4	1	611	98410	16	EACH	CATCH BASIN, NO. 8	
							1							1				611	98434	1	EACH	CATCH BASIN, NO. 8A	
							2							2				611	98470	2	EACH	CATCH BASIN, NO. 2-2B	
						4	1							1		4		611	99110	5	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
						2										2		611	99114	2	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
						1										1		611	99115	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN	323, 324
						12	15							23		4		611	99574	27	EACH	MANHOLE, NO. 3	
							4							4				611	99660	4	EACH	MANHOLE RECONSTRUCTED TO GRADE	
			1,177	1,851										2,941	87			252	01500	3,028	FT	**PAVEMENT** FULL DEPTH PAVEMENT SAWING	
685			44						377	267				1,373				253	01000	1,373	SY	PAVEMENT REPAIR	
		20,534										2,895		23,429				254	01000	23,429	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH (3.25" MAX.)	
	19											9,694		9,713				301	56000	9,713	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
											260	9,371	260	9,051	320			304	20000	9,631	CY	AGGREGATE BASE	
								13				8,610		8,623				407	20000	8,623	GAL	NON-TRACKING TACK COAT	
		713										34		747				441	50000	747	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
												359		359				441	70000	359	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
								6						6				441	70500	6	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
								8						8				441	70600	8	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (DRIVEWAYS)	
												159		159				441	70801	159	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1,(449), (UNDER GUARDRAIL), AS PER PLAN	13
												1,837		1,837				442	10301	1,837	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	14
		143										2,199		2,342				442	20200	2,342	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	
												7,303		5,461	1,842			452	16010	7,303	SY	13" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
					799									799				609	24510	799	FT	CURB, TYPE 4-C	
					1,487									1,447	40			609	26000	1,487	FT	CURB, TYPE 6	
					218									218				609	50000	218	SY	4" CONCRETE TRAFFIC ISLAND	
												6,832		6,832				618	40100	6,832	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
																						WATER WORK	
										36				36				SPECIAL	63820088	36	FT	8" WATER MAIN DIP CLASS 53 MECHANICAL JOINTS AND FITTINGS, CITY OF AKRON	340
										324				324				SPECIAL	63820176	324	FT	12" WATER MAIN DIP CLASS 53 MECHANICAL JOINTS AND FITTINGS, CITY OF AKRON	340
										1				1				SPECIAL	63820554	1	EACH	8" GATE VALVE WITH VALVE BOX, CITY OF AKRON	340
										358				358				SPECIAL	63820770	358	FT	1" COPPER WATER SERVICE LINE, CITY OF AKRON	340
										3				3				638	98000	3	EACH	WATER WORK, MISC.: FIRE HYDRANT AND 6-INCH GATE VALVE ASSEMBLY, COMPLETE, CITY OF AKRON	340
										1				1				638	98000	1	EACH	WATER WORK, MISC.: TYING INTO 6-INCH MAIN, CITY OF AKRON	340
										2				2				638	98000	2	EACH	WATER WORK, MISC.: TYING INTO 10-INCH MAIN, CITY OF AKRON	340
										LUMP				LUMP				638	98100	LS		WATER WORK, MISC.:DRINKING FOUNTAIN, COMPLETE, CITY OF AKRON	340
										LUMP				LUMP				638	98100	LS		WATER WORK, MISC.: HOT BOX ENCLOSURE ASSEMBLY, COMPLETE, CITY OF AKRON	340
																						SANITARY SEWER	
									466					466				611	97400	466	FT	CONDUIT, MISC.:8-INCH SANITARY SEWER, CITY OF AKRON	336-338
									275					275				611	97400	275	FT	CONDUIT, MISC.:RECONNECT LATERAL, CITY OF AKRON	336-338
									2					2				611	99690	2	EACH	MANHOLE, MISC.:MANHOLE-2A ON 8" SANITARY SEWER, CITY OF AKRON	336-338

CALCULATED DNO CHECKED HRB

GENERAL SUMMARY

SUM-8-1.75

REF NO.	SHEET NO.	CULVERT FILE NO. (CFN)	STATION TO STATION				202 CONCRETE BARRIER REMOVED FT	202 PIPE REMOVED, 24" AND UNDER FT	202 GUARDRAIL REMOVED FT	202 BRIDGE TERMINAL ASSEMBLY REMOVED EACH	202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH	202 INLET REMOVED EACH	202 PIPE REMOVED, OVER 24" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT FT	202 FENCE REMOVED FT	202 CURB REMOVED FT	202 HEADWALL REMOVED EACH	202 CONCRETE MEDIAN REMOVED SY	252 FULL DEPTH PAVEMENT SAWING FT	202 REMOVAL MISC.: RETAINING WALL REMOVED SF
R46	185		540+95.66	RT	555+09.08	RT			1439												
R47	185		540+94.79	LT	256+88.95	LT			1581	1											
R48	185		540+95.03	RT	561+12.13	RT	2019														
R49	185		540+94.79	LT	543+36.85	LT											240				
R50	185		540+95.65	RT	542+19.19	RT											135				
R51	190	1930150	248+59.76	LT							1										
R52	190		550+97.17	RT	551+44.28	RT		45										1			
R52A	190		551+44.28	RT							1										
R53	188		543+22.43	LT	543+22.56	LT		5			1	1									
R54	188		545+89.47	RT	546+00.00	LT		49			1		1								
R55	192		259+64.18	LT									1								
R56	188		243+31.04	RT	246+00.54	RT														178	
R57	192		556+41.99	RT	559+25.83	RT									287						
R58	194		557+27.13	RT								1									
R59	188	1988684	246+00.54	RT	248+59.76	LT									260						
R60	194	1988727	60+18.35 RT (RAMP A)		60+67.46 RT (RAMP A)			53				1									
R61	194		60+18.35 RT (RAMP A)		60+27.32 RT (RAMP A)			14				1									
R62	194		60+12.74 RT (RAMP A)		60+18.35 RT (RAMP A)			6			1	1									
R63	194		61+94.60 LT (RAMP B)		62+09.95 LT (RAMP B)			15					1								
R64	194		62+09.95 LT (RAMP B)								1										
R65	194	1930152	557+13.18	RT	557+15.08	RT		14				1									
R88	194		258+37.87	LT	558+50.00	RT														138	
R89	194		258+37.87	LT	261+87.22	LT														356	
R90	194		258+37.87	LT	261+00.00	RT														272	
R91	194		558+50.00	CL	561+12.13	LT														272	
R92A	194		58+49.46 RT (RAMP A)		60+72.00 LT (RAMP A)															347	
R99	194	1930155	559+75.22	LT	560+16.88	RT									92						
R66	194		557+92.72	RT	559+58.83	RT			167												
R67	194		259+13.17	LT	61+99.50 LT (RAMP B)												274				
R68	199		314+38.65 LT (RAMP I)		314+79.24 LT (RAMP I)														56		
R68A	199		46+52.37 LT (PERK.)		48+49.60 LT (PERK.)															201	
R69	199		46+52.37 LT (PERK.)		316+17.98 LT (RAMP I)												259				
R70	199		48+49.63 LT (PERK.)		316+27.63 RT (RAMP I)												174				
R71	199		318+30.49	LT	318+37.84	LT		6			1	1									
R72	199		318+55.94	LT	318+37.84	LT		16				1									
R73	199		318+37.84	LT	318+23.03	RT		114			1										
R74	199		12+41.25	LT	15+24.79	RT		289			2										
R75	199		316+80.23	LT	324+56.05	RT										834					
R76	200		15+24.79	RT	15+40.93	LT		61			1										
R77	200		324+29.22	LT	324+72.55	RT										164				220	
R78	200		324+60.02	RT	324+95.27	RT										83					
R79	204		415+16.58	RT	424+87.66	RT											988				
R80	204		415+09.28	LT	415+66.67	LT											70				
R81	204		50+78.68 LT (PERK.)		416+05.97	LT			128												
R82	204		418+06.54	LT	418+86.42	LT		78				1									
R83	204		415+36.64	RT	425+00.29	RT										989					
R84	204		418+86.42	LT	420+28.46	RT		158				1									
R85	204		50+91.44 LT (PERK.)		51+71.79 LT (PERK.)															87	
R86	206		37+62.15 LT (PERK.)		38+51.11 LT (PERK.)				89												
R87	206		14+73.62 LT (SUP)		14+87.68 RT (SUP)											26					
R92	194		60+62.92 (A)	LT	60+72.00(A)	LT											9				
R93	194		60+06.42 (A)	RT	60+26.50 (A)	RT											20				
R94	179		530+36.92	RT	531+32.33	RT					1			96							
R95	179		531+32.33	RT	531+75.20	RT					1			42							
R96	208		628+40.33 RT (TRAIL)		628+40.33 RT (TRAIL)			101				1									
R97	206		38+02.96 LT (PERK.)		38+16.25 LT (PERK.)											13					
R98	205		420+52.17 RT (RAMP J)		420+22.46 RT (RAMP J)			68			1										
TOTALS CARRIED TO GENERAL SUMMARY							2019	1092	3404	1	14	11	3	138	639	2109	2169	1	56	1851	220

CALCULATED APS
CHECKED ACW

ROADWAY SUBSUMMARY

SUM-8-1.75

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By: srittle

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CALCULATED APS
CHECKED ACW

ROADWAY SUBSUMMARY

REF NO.	SHEET NO.	CULVERT FILE NO. (CFN)	STATION TO STATION				611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE F FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN EACH	611 21" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE B FT	611 24" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE F FT	611 36" CONDUIT, TYPE B FT	611 36" CONDUIT, TYPE C FT	611 CONDUIT, MISC.: 36" CONDUIT UNDER RAILROAD FT	611 CATCH BASIN, NO. 3, AS PER PLAN EACH	611 CATCH BASIN, NO. 3A, AS PER PLAN EACH	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 8 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 MANHOLE, NO. 3 EACH	602 CONCRETE MASONRY CY	601 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER CY
D1	194	1988725	258+25.00	LT		258+00.00	LT	25														1						
D2	194	1988728	258+00.00	LT		255+50.00	LT										250									1		
D3	194	1988724	258+00.00	RT		258+00.00	LT				70													1				
D4	194	1988723	558+12.13	RT		558+12.13	RT	20															1					
D5	192	1988699	255+50.00	LT		252+91.20	LT										255									1		
D6	192	1988700	255+50.00	RT		255+50.00	LT	66																1				
D7	192	1988705	253+41.00	LT		252+91.20	LT	49																	1			
D8	192	1988701	252+91.20	LT		251+50.00	LT						1				138											
D9	192	1988704	552+99.91	LT		252+91.20	LT	72																1				
D10	192	1988703	252+41.00	LT		252+91.20	LT	49																	1			
D11	190	1988702	251+50.00	LT		249+75.00	LT										171									1		
D12	188	1988685	243+83.74	RT		243+68.91	LT								90		53											
D13	188		546+00.00	LT		543+67.83	LT		229															1				
D14	188		543+67.83	LT																							0.46	1.56
D16	185	1988679	541+39.00	RT		541+50.00	RT		11											1								
D16A	185	1988680	541+50.00	RT		541+50.00	LT	75													1							
D17	185	1988681	541+39.00	LT		541+50.00	LT	11												1								
D17A	185		541+50.00	LT		541+50.00	LT		24											1								
D18	185		241+61.95	RT		241+70.28	RT					23												1				
D19	185		241+70.28	RT		541+50.00	LT							202							1							
D20	185		241+70.27	LT		241+70.27	LT			56											1							
D20C	185		241+70.27	LT																							0.27	
D22	190	1988706	249+75.00	LT		249+64.63	LT											32								1		
D22A	190		249+64.63	LT		249+50.00	LT											44								1		
D23	190		249+50.00	LT																							0.76	3
D26	175	1988653	518+00.02	LT		518+00.00	RT	68																	1			
D27	175	1988657	518+00.00	RT		418+20.46	RT				67													1				
D28	175		418+20.46	RT		420+20.00	RT					200												1				
D29	175		420+20.00	RT		420+59.19	RT							39										1				
D30	175		420+20.65	RT		420+20.00	RT			42												1						
D32	175	1988658	420+59.19	RT		423+00.00	RT									238								1				
D33	177	1988672	423+00.00	RT		524+75.08	RT								176											1		
D34	177		524+75.08	RT		524+75.01	RT								29											1		
D35	199		12+50.00	LT		14+00.00	LT					149												1				
D36	200		14+00.00	LT		16+50.00	LT					251												1				
D37	200		16+50.00	LT		17+43.71	LT					99												1				
D37A	200		17+43.71	LT		17+91.79	LT					52														1		
D37B	200		17+91.79	LT		224+00.88	LT					33														1	0.33	1.33
D39	177	1988673	524+75.00	LT		524+75.08	RT	93																1				
D40	177		524+75.01	RT		524+75.01	RT									27										1		
D42	177		524+75.01	RT		525+20.42	RT									47								1				
D43	177		524+04.72	RT		524+75.01	RT		70																			
D44	177		525+20.42	RT		525+52.41	RT									32								1				
D45	177		525+52.41	RT		525+52.15	RT									84										1		
D46	177		525+52.15	RT		525+77.38	RT												63							1		
TOTALS CARRIED TO GENERAL SUMMARY								528	334	98	137	807	1	241	295	428	53	814	76	63	3	4	1	13	4	2	12	2	6

SUM-8-1.75

164
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View: FENCE_VIEW1
By: sriffle

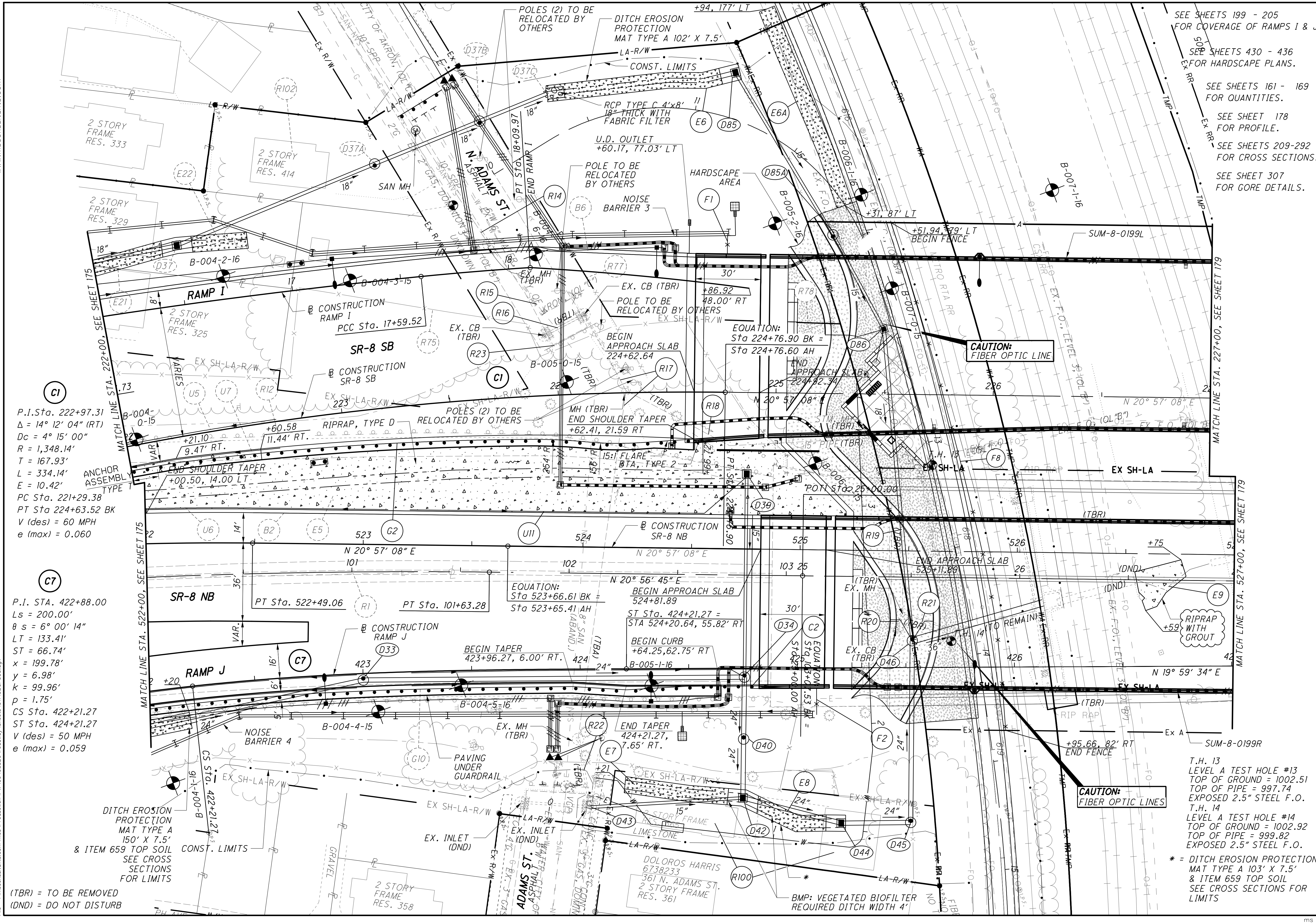
34" x 22"

REF NO.	SHEET NO.	CULVERT FILE NO. (CFN)	STATION TO STATION				611 8" CONDUIT, TYPE C FT	611 8" CONDUIT, TYPE F FT	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT		605 AGGREGATE DRAINS FT	611 CONDUIT, BORED OR JACKED, 36" FT	611 36" CONDUIT, TYPE C FT	611 42" CONDUIT, TYPE C FT	611 CATCH BASIN, NO. 2-2B EACH	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 EACH	611 CATCH BASIN, NO. 8A EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH	611 MANHOLE, NO. 3 EACH
D50	173	1988649	214+89.62	LT		214+94.31	LT				11	19												1				
D53	173	1930145	515+48.04	RT		515+47.84	LT			10																		
D54	173	1930144	515+47.84	LT		214+92.87	LT					13														1		
D59	179		527+28.99	LT		527+37.00	LT												11									
D61	190		551+44.28	RT																					1			
D59A	179		527+28.99	LT		528+08.99	LT								80													1
D64	179		530+32.30	RT		530+32.31	LT													28								1
D65	179		530+32.31	LT		530+32.31	LT													8								1
D66	179		530+62.23	LT		531+50.23	LT		86											88								1
D67	179		531+50.23	LT		531+50.20	RT													55								1
D68	179		531+50.20	RT		531+75.20	RT													25								1
D70	194	1988731	560+14.23	RT		558+12.13	RT						203									1						
D71	194	1988722	558+12.13	RT		558+12.13	LT							61														1
D72	194	1988730	259+64.19	LT		61+94.60 LT (RAMP B)						218											1					
D73	194	1988729	259+64.19	LT		258+25.00	LT					139											1					
D74	194	1988726	60+67.46	LT		560+14.23	RT					59										1						
D75	194		560+24.41	RT		560+14.23	RT						15											1				
D80	179		527+37.00	LT		527+81.28	LT												44									1
D81	179		527+81.28	LT		528+66.28	LT											85										1
D82	179		528+66.28	LT		529+75.00	LT												109									1
D83	179		529+75.00	LT		530+32.31	LT											57										1
D84	179		530+32.31	LT		530+62.23	LT													36								1
D85	177		224+79.56	LT		225+28.33	LT						88											1				
D85A	177		225+28.33	LT		225+48.81	LT						49															1
D86	177		225+48.81	LT		525+52.15	RT								144						1							
D87	179		227+68.67	LT		227+93.22	LT	36	36		36																	1
D88	179		227+78.67	LT		227+93.22	RT				38																	1
D89	208		628+40.33	RT		628+99.56	RT				127										1							
D90	190		248+66.26	LT																							1	
D91	190		551+68.98	LT																							1	
D92	192		554+51.04	LT																							1	
D93	194		557+24.09	LT																							1	
D94	235		223+20.00	RT												11												
D95	235		223+70.00	RT												10												
D96	235		224+20.00	RT												10												
D97	236		224+62.84	RT												10												
TOTALS CARRIED TO GENERAL SUMMARY							36	122	10	212	448	355	61	224		41	142	164	240	2	2	2	3	1	1	4	15

CALCULATED APS
CHECKED ACW

ROADWAY SUBSUMMARY

SUM-8-1.75



SEE SHEETS 199 - 205 FOR COVERAGE OF RAMPS I & J.

SEE SHEETS 430 - 436 FOR HARDSCAPE PLANS.

SEE SHEETS 161 - 169 FOR QUANTITIES.

SEE SHEET 178 FOR PROFILE.

SEE SHEETS 209-292 FOR CROSS SECTIONS.

SEE SHEET 307 FOR GORE DETAILS.

T.H. 13
LEVEL A TEST HOLE #13
TOP OF GROUND = 1002.51
TOP OF PIPE = 997.74
EXPOSED 2.5" STEEL F.O.

T.H. 14
LEVEL A TEST HOLE #14
TOP OF GROUND = 1002.92
TOP OF PIPE = 999.82
EXPOSED 2.5" STEEL F.O.

* = DITCH EROSION PROTECTION MAT TYPE A 103' X 7.5' & ITEM 659 TOP SOIL SEE CROSS SECTIONS FOR LIMITS

HORIZONTAL SCALE IN FEET (0 10 20 40)

CALCULATED DWH | CHECKED HRB

PLAN - S.R. 8 NB/SB
STA. 522+00/ 222+00 TO STA. 527+00/ 227+00

SUM-8-1.75

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Ohio DOT Workspace SUM-8
34" x 22"

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Ohio DOT Workspace
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1" / 0.5" / 0

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34" x 22"

C9
P.I.Sta. 248+70.39
Δ = 29° 20′ 09″ (LT)
Dc = 2° 30′ 00″
R = 2,291.83′
T = 599.88′
L = 1,173.43′
E = 77.21′
P.C. Sta. 242+70.51
P.T. Sta. 254+43.94
V (des) = 60 MPH
e (max) = 0.051

C11
P.I.Sta. 547+71.15
Δ = 29° 20′ 09″ (LT)
Dc = 2° 30′ 00″
R = 2,291.83′
T = 599.88′
L = 1,173.43′
E = 77.21′
P.C. Sta. 541+71.27
P.T. Sta. 553+44.70
V (des) = 60 MPH
e (max) = 0.051

C13
P.I.Sta. 47+28.49
Δ = 29° 19′ 35″ (LT)
Dc = 2° 30′ 00″
R = 2,291.83′
T = 599.68′
L = 1,173.06′
E = 77.16′
P.C. Sta. 41+28.81
P.T. Sta. 53+01.87

SEE SHEETS 209-292
FOR CROSS SECTIONS.

SEE SHEETS 161 - 169
FOR QUANTITIES.

SEE SHEET 191
FOR PROFILE.

(TBR) = TO BE REMOVED
(DND) = DO NOT DISTURB
(ATG) = ADJUST TO GRADE

NOTE:
MAINTAIN POSITIVE DRAINAGE
IN VEGETATED BIOFILTER WITH
NO STANDING WATER.

INSTALL TEMPORARY CONSTRUCTION FENCE ALONG LOOKOUT PARK PROPERTY UNTIL PERMANENT FENCING CAN BE INSTALLED

RCP TYPE C 6′ X 9′ 18″ THICK WITH FABRIC FILTER

+47.45 140.53′ LT

+00.56 139.16′ LT

+53.02 93.78′ LT

+97.13 97.13′ LT

EX. MH (RECONSTRUCT TO GRADE)

DITCH EROSION PROTECTION MAT TYPE A 250′ X 11′

CONST. LIMITS

U.D. OUTLET +00.00, 69.93′ LT

EX. SAN MH (DND)

NOISE BARRIER 1A

NOISE BARRIER 2A

B-023-0-15

B-021-2-16

B-025-3-16

B-026-0-15

B-022-0-15

B-021-3-16

B-024-0-15

B-025-1-16

B-027-0-15

B-025-0-15

B-025-2-16

EX SH-LA-R/W

LA-R/W

EX R/W

MATCH LINE STA. 247+00, SEE SHEET 188

MATCH LINE STA. 252+00, SEE SHEET 192

MATCH LINE STA. 547+00, SEE SHEET 188

MATCH LINE STA. 552+00, SEE SHEET 192

SR-8 SB

SR-8 NB

℄ CONSTRUCTION SR-8 SB

℄ CONSTRUCTION SR-8 NB

BEGIN SHLDR. TAPER STA. 249+00.00, 12.00′ RT.

MEDIAN INLET (NO ACCESS)

EX. I-3C-JS (FLAT TOP SLAB) (DND)

ITEM 670 DITCH EROSION PROTECTION MAT TYPE A 300′ X 11″ & ITEM 659 TOP SOIL SEE CROSS SECTIONS FOR LIMITS

BMP: VEGETATED BIOFILTER REQUIRED DITCH WIDTH 7′

TRAFFIC CAMERA (TBR)

U.D. OUTLET +00.00, 124.07′ RT

EX. ELEC. AND F.O. LINES (TBR)

PAVING UNDER GUARDRAIL

EX HEADWALL (TBR)

TURF RENFORCING MAT TYPE 2 350′ X 7.5′

TURF RENFORCING MAT TYPE 1 200′ X 7.5′

EX. FENCE (TBR)

EX. SAN MH (TBR)

12" PIPE (TBA)

12" VCP (TBA)

24" VCP (TBR)

36" C.S. (DND)

27" C.S. (DND)

+75.95 99.70′ RT

+16.45 105.21′ RT

+02.23 131.91′ RT

+37.17 167.64′ RT

+49.94 199.62′ RT

STREAM 2

CONST. LIMITS

GRAVEL DRIVE

EX SH-LA-R/W GARAGE

CALCULATED DWH
CHECKED HRB

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN - S.R. 8 NB / SB
STA. 547+00 / 247+00 TO STA. 552+00 / 252+00

SUM-8-1.75

190
801

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Ohio DOT Workspace
SUM-8

1" 0.5" 0

UCF: ohdot\V8i
PCF: 60-08326_PW

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34" x 22"

SEEDING	
END WIDTH	SQ. YDS.
90	
	558
111	
	575
	1,133

= EXISTING CONCRETE PAVEMENT

SEE SR-8 SB CROSS SECTIONS

STA 551+68.98, 7.34' LT
EX. I-3C, GRATE ELEV 1024.44'
FLAT TOP SLAB, ELEV. 1021.94
(FLOW THROUGH PIPE TO BE MAINTAINED)
36" N 1001.51
27" SW 1001.51

1025.12
551+50.00
1025.11

EX. ELEC.
17.17'
1.41:1
2:1
10.00'
11.68'
1.43:1
MATCH LINE
26.14'

STA 551+44.28, 134.75' RT
(REMOVE)EX. MH-1-SAN, GRATE ELEV 995.92'
(TO REMAIN)36" BRICK E 980.79
(TO REMAIN)36" BRICK W 980.57
(REMOVE)24" VCP S 984.37
(RECONNECT)12" VCP NW 982.22
(RECONNECT)6" VCP SE 983.49

MATCH LINE
EX SH-LA-R/W
D61
STA 551+44.28, 134.75' RT
CB-8A,
GRATE ELEV 995.05
E ELEV 980.57
2:1
2:1
995.3
26.14'

PROPOSED NOISE WALL

SEE SR-8 SB CROSS SECTIONS

1025.36
551+00.00
1025.33

EX. ELEC.
15.0'
1.42:1
2:1
10.00'
17.01'
EX. F.O.
EX. ELEC.
1.42:1
MATCH LINE

MATCH LINE
EX SH-LA-R/W
2:1
2:1
997.1
9.66'
LA-R/W

END AREA		VOLUME	
CUT	FILL	CUT	FILL
406	975		
		841	1854
502	1027		
		680	1526
		1521	3380

CALCULATED DNO
CHECKED HRB

CROSS SECTIONS S.R. 8 NB
STA. 551+00.00 TO STA. 551+50.00

SUM-8-1.75

224
801

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Ohio DOT Workspace
SUM-8

0 0.5" 1"

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UCF: ohdot1V8i

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34" x 22"

Line: FENCE_VIEW1
By: srifle

SEEDING END WIDTH	SEEDING SQ. YDS.
55	258
38	336
66	594

= EXISTING CONCRETE PAVEMENT

SEE SR-8 NB CROSS SECTIONS

2:1

1029.79
242+50.00
1024.35

12" STM
(TBA)

SEE SR-8 NB CROSS SECTIONS

2:1

21" TYPE C

1030.08
242+00.00
1024.21

12" STM
(TBA)

STA 241+70.27, 62.00' LT
CB-3A, GRATE ELEV 1028.57
6" (S) 1026.45
15" (E) 1024.55

D20

D20C
STA 241+70.27, 114.01' LT
HW 2.1/2.2
15" (E) 1004.53

SEE SR-8 NB CROSS SECTIONS

2:1

6'-15" TYPE F @ 1.87%

18" MIN.

44'-15" TYPE F @ 50.00%

6'-15" TYPE F @ 2.00%

1030.42
241+41.84
1024.39

RESUME EARTHWORK APPROACH SLAB
STA 241+41.84

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	933	0	1364
0	540	0	1572
0	920	0	2936

CALCULATED DNO
CHECKED HRB

CROSS SECTIONS S.R. 8 SB
STA. 241+41.84 TO STA. 242+50.00

SUM-8-1.75

237
801

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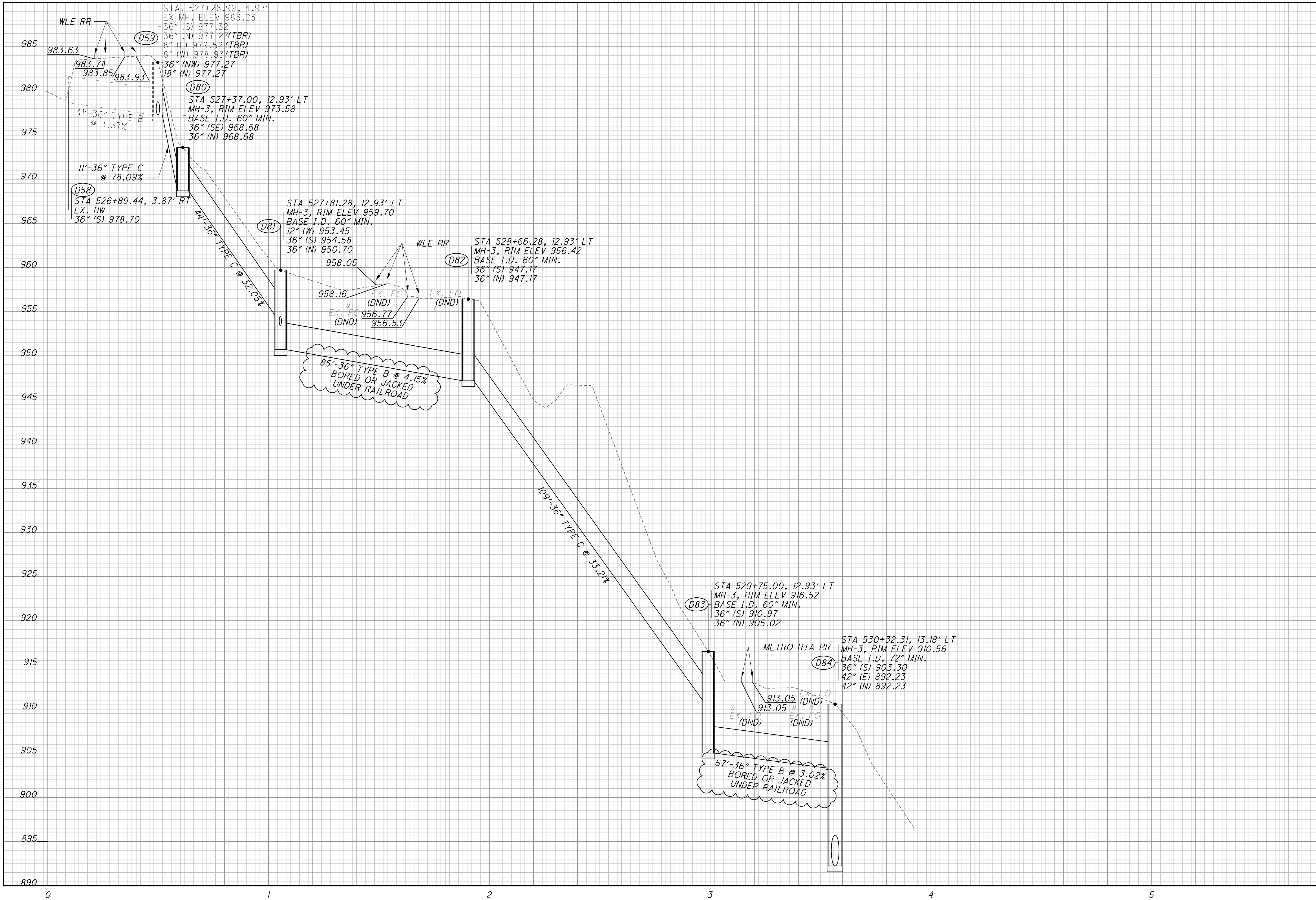

CALCULATED DNO
CHECKED HRB

STORM SEWER PROFILES

SUM-8-1.75

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Ohio DOT Workspace
SUM-8
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Ohio DOT Workspace
SUM-8

1" / 0.5" / 0

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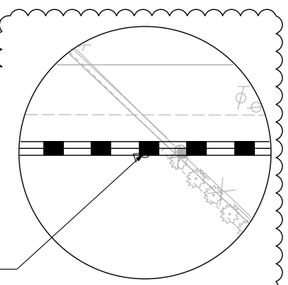
By: kryan

34" x 22"

SEE DETAIL ON SHEET 411

JB-9B STA. 231+01, 62.8' LT (AESTHETIC)
JB-9A STA. 230+91, 62.8' LT (AESTHETIC)
JB-9 STA. 230+81, 62.8' LT (W/ SERVICE TO AESTHETIC LIGHTING) (3 SPLICES)
BW2-4 STA. 228+90, 15.8' LT A10B40 W/ JB
BW2-5 STA. 230+40, 15.8' LT A10B40 W/ JB
SUM-8-0199L
STA. 231+11, 62.8' LT (AESTHETIC) JB-9C
(3)-2" CONDUITS
EMPTY AESTHETIC LIGHTING & INTERIOR PIER LIGHTING CONDUIT BETWEEN JB-9C & JB-10
BW2-7 STA. 233+40, 15.8' LT A10B40 W/ JB
STA. 231+98, 15.8' LT A10B40 W/ JB BW2-6
℄ PIER 2
℄ PIER 3 (FIXED)
STA. 234+21, 62.8' LT (AESTHETIC) JB-10
STA. 234+31, 62.8' LT (AESTHETIC) JB-10A
STA. 234+41, 62.8' LT (W/ SERVICE TO AESTHETIC LIGHTING) (3 SPLICES CKT Z-S3) JB-10B
STA. 234+51, 62.8' LT (AESTHETIC) JB-10C
STA. 234+90, 15.8' LT A10B40 W/ JB BW2-8
STA. 236+46, 15.8' LT A10B40 W/ JB BW2-9
STA. 236+61, 62.8' LT (W/ SERVICE TO AESTHETIC LIGHTING) (3 SPLICES CKT Z-S4) JB-11
STA. 236+71, 62.8' LT (AESTHETIC) JB-11A
STA. 236+81, 62.8' LT (AESTHETIC) JB-11B
STA. 236+91, 62.8' LT (AESTHETIC) JB-11C
STA. 237+90, 15.8' LT A10B40 W/ JB BW2-10
℄ PIER 4
CKTS BW2 & X-S2
CKT BW2
CKTS BW2, Z-S4 & Z-S5
CKTS BW2 & Z-S5
S.R. 8 SB
S.R. 8 NB
MATCH LINE STA. 528+00, SEE SHEET 406
MATCH LINE STA. 538+00, SEE SHEET 408
SPARE/EMPTY CONDUIT
JB-14 STA. 530+54, 14.8' LT (SPARE/EMPTY)
STA. 230+47, 14.8' RT (SPARE/EMPTY) JB-12
SPARE/EMPTY CONDUIT
JB-15 STA. 535+61, 14.8' LT (SPARE/EMPTY)
STA. 235+62, 14.8' RT (SPARE/EMPTY) JB-13
SPARE/EMPTY CONDUIT
SEE DETAIL BELOW
CKT BE2
CKTS BE2 & Y-N2
CKT BE2
CKTS BE2, Z-N4 & Z-N5
CKTS BE2 & Z-N5
BE2-5 STA. 530+30, 15.8' RT A10B40 W/ JB
BE2-4 STA. 528+80, 15.7' RT A10B40 W/ JB
JB-16 STA. 530+69, 62.8' RT (W/ SERVICE TO AESTHETIC LIGHTING) (3 SPLICES)
JB-16A STA. 530+79, 62.8' RT (AESTHETIC)
JB-16B STA. 530+89, 62.8' RT (AESTHETIC)
JB-16C STA. 530+99, 62.8' RT (AESTHETIC)
SUM-8-0199R
BE2-6 STA. 531+80, 15.8' RT A10B40 W/ JB
EMPTY AESTHETIC LIGHTING & INTERIOR PIER LIGHTING CONDUIT BETWEEN JB-16C & JB-17
BE2-7 STA. 533+29, 15.8' RT A10B40 W/ JB
JB-17 STA. 533+34, 62.8' RT (AESTHETIC)
JB-17A STA. 533+44, 62.8' RT (AESTHETIC)
(3)-2" CONDUITS
BE2-8 STA. 534+80, 15.8' RT A10B40 W/ JB
JB-17B STA. 533+64, 62.8' RT (W/ SERVICE TO AESTHETIC LIGHTING) (3 SPLICES CKT Z-N3)
JB-17C STA. 533+74, 62.8' RT (AESTHETIC)
JB-18 STA. 536+19, 62.8' RT (W/ SERVICE TO AESTHETIC LIGHTING) (3 SPLICES CKT Z-N4)
JB-18A STA. 536+29, 62.8' RT (AESTHETIC)
BE2-9 STA. 536+34, 15.8' RT A10B40 W/ JB
STA. 536+49, 62.8' RT (AESTHETIC) JB-18C
STA. 536+39, 62.8' RT (AESTHETIC) JB-18B
STA. 537+74, 15.8' RT A10B40 W/ JB BE2-10

REMOVE AND RELOCATE EXISTING WOOD POLE WITH FLOOD LIGHT TO A TEMPORARY LOCATION AS DIRECTED BY THE ENGINEER DURING DEMOLITION OF THE EXISTING BRIDGE. RE-INSTALL POLE WITH FLOOD LIGHT TO ITS ORIGINAL LOCATION PRIOR TO COMPLETION OF THE PROJECT. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO THE LUMP SUM PRICE BID FOR ITEM 625 - "SPECIAL - MAINTAIN EXISTING LIGHTING" INCLUDING ALL EQUIPMENT, LABOR, MATERIALS, WIRING/POWER CONNECTIONS, AND INCIDENTALS NECESSARY TO PERFORM THIS IN A WORKMANLIKE MANNER.



NOTES:

1. ALL LIGHTING MEDIAN JUNCTION BOX COVERS SHALL BE ON THE WEST SIDE OF THE SR-8 MAINLINE MEDIAN BARRIER UNLESS NOTED OTHERWISE.
2. OFFSETS TO LIGHT POLES ARE FROM NEAREST EOP.
3. OFFSETS TO PULL BOXES ARE FROM ℄.
4. SEE SHEET 404 FOR PLAN LEGEND.
5. AESTHETIC LIGHTING AND INTERIOR PIER LIGHTING CONDUIT IN THE BRIDGE PARAPET SHALL ONLY ENTER THE AESTHETIC JUNCTION BOXES.
6. ROADWAY LIGHTING CONDUIT IN THE BRIDGE PARAPET SHALL ONLY ENTER LIGHTING JUNCTION BOXES.

HORIZONTAL SCALE IN FEET
0 20 40 80

CALCULATED KWR
CHECKED DRB

LIGHTING PLAN
STA. 528+00 TO STA. 538+00
SUM-8-1.75

407
801

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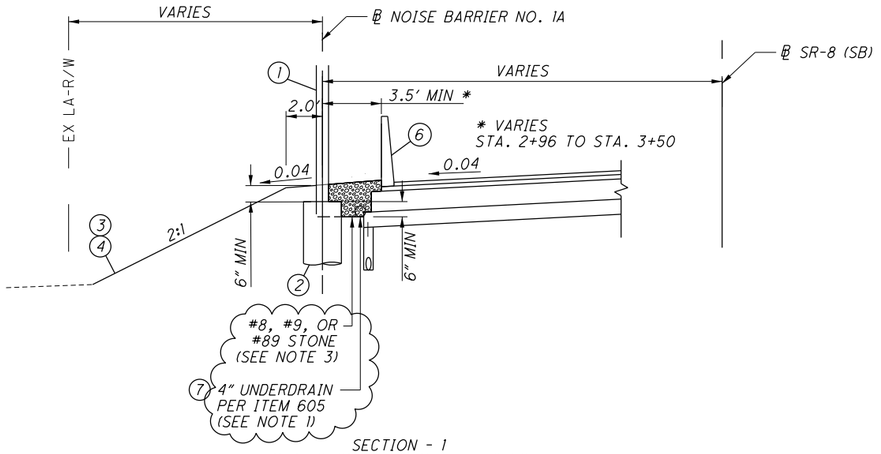
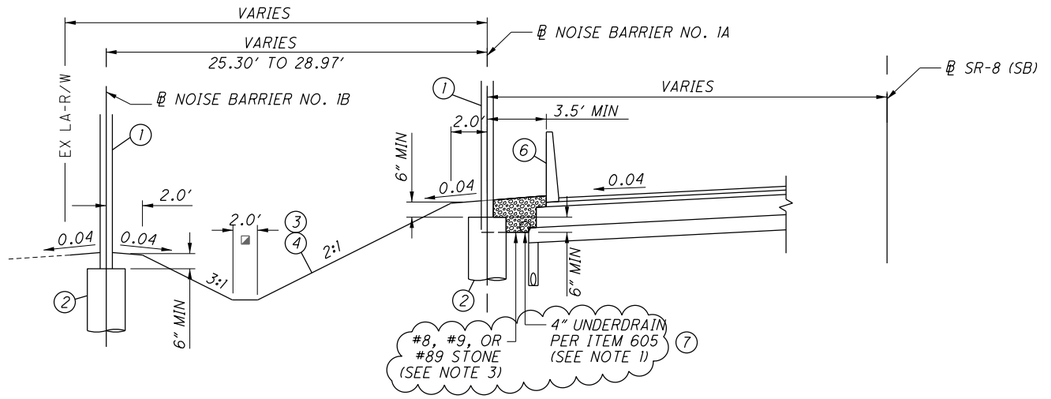
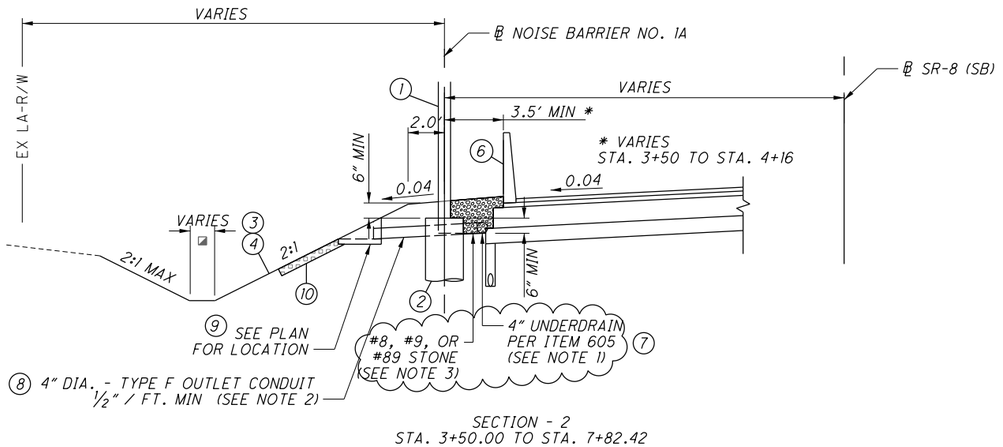


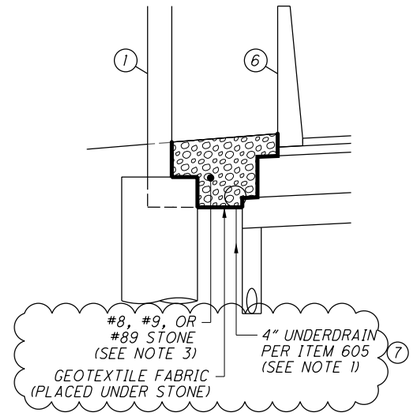
SECTION - 1
STA. 0+80.00 TO STA. 3+50.00



SECTION - 3
STA. 7+82.42 TO STA. 8+96.00



SECTION - 2
STA. 3+50.00 TO STA. 7+82.42



UNDERDRAIN TRENCH DETAIL

NOISE BARRIER NO. 1A
SECTION APPLIES:
STA. 0+80.00 TO STA. 8+96.00 = 816 FT

LEGEND

1. ITEM SPECIAL - NOISE BARRIER#
2. ITEM 524 - DRILLED SHAFTS, 30″ DIAMETER#
3. ITEM 203 - EMBANKMENT
4. ITEM 659 - SEEDING AND MULCHING
5. ITEM 606 - GUARDRAIL (SEE ROADWAY PLANS)
6. ITEM 606 - CONCRETE BARRIER (SEE ROADWAY PLANS)
7. ITEM 605 - 4″ SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN
8. ITEM 611 - 4″ CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
9. ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET
10. ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1 (PER DM-1.1)

◪ FOR DITCH LOCATION AND WIDTH SEE ROADWAY PLAN AND SECTIONS.
◐ VARIES, SEE ROADWAY PLAN AND SECTIONS.

SLOPED SECTION DRAINAGE NOTES:

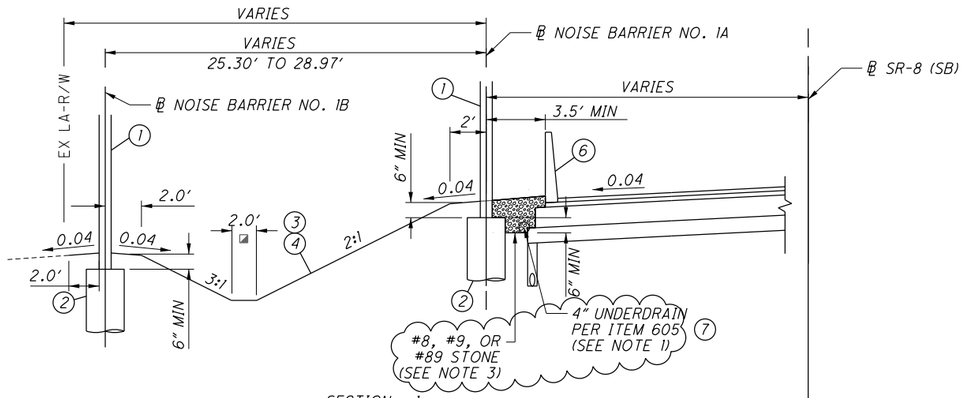
1. PROVIDE UNDERDRAIN SLOPE AS SPECIFIED IN PROJECT PLANS. INSTALL IN ACCORDANCE WITH ITEM 605.
2. INSTALL UNDERDRAIN OUTLETS AT 500′ MAX. SPACING; INSTALL IN ACCORDANCE WITH ITEM 605.
3. STONE AND GEOTEXTILE FABRIC IS INCIDENTAL TO ITEM 605 - 4″ SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN.

ITEMS (1) AND (2) ARE TO BE INCLUDED WITH ITEM (1) ITEM 606 - SPECIAL, NOISE BARRIER FOR PAYMENT.

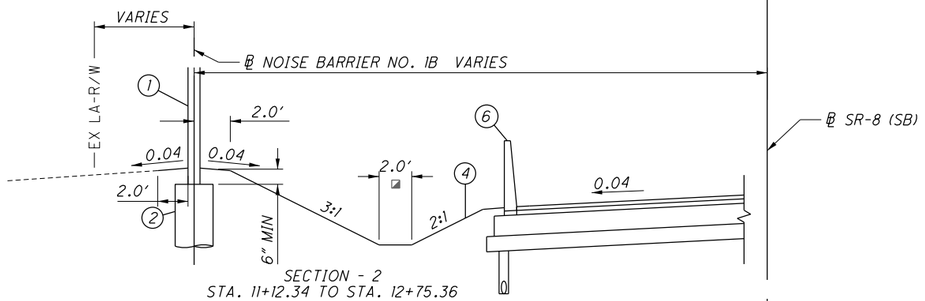
DRAWN PEK
CHECKED PRS

NOISE BARRIER NO. 1A TYPICAL SECTIONS

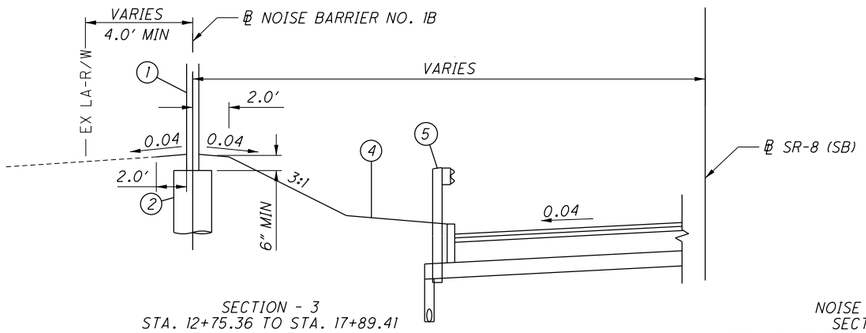
SUM-8-1.75



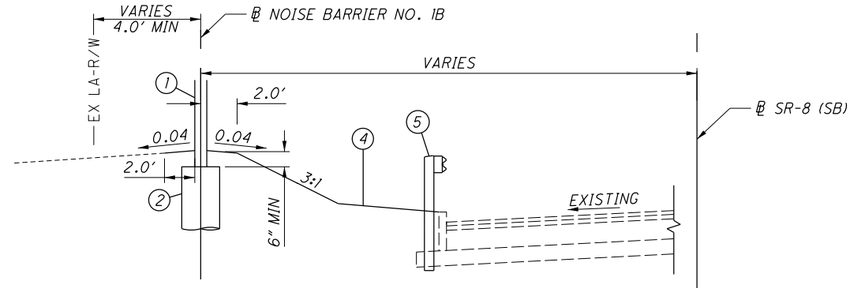
SECTION - 1
STA. 10+00.00 TO STA. 11+12.34



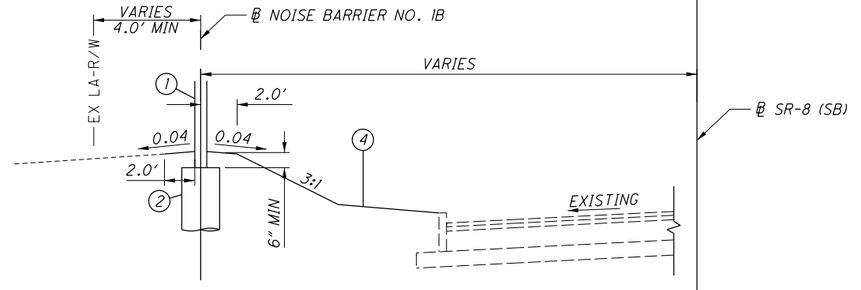
SECTION - 2
STA. 11+12.34 TO STA. 12+75.36



SECTION - 3
STA. 12+75.36 TO STA. 17+89.41



SECTION - 4
STA. 17+89.41 TO STA. 19+07.41



SECTION - 5
STA. 19+07.41 TO STA. 21+52.00

NOISE BARRIER NO. 1B
SECTION APPLIES:
STA. 10+00.00 TO STA. 21+52.00 = 1152 FT

LEGEND

1. ITEM SPECIAL - NOISE BARRIER#
2. ITEM 524 - DRILLED SHAFTS, 30" DIAMETER#
3. ITEM 203 - EMBANKMENT
4. ITEM 659 - SEEDING AND MULCHING
5. ITEM 606 - GUARDRAIL (SEE ROADWAY PLANS)
6. ITEM 606 - CONCRETE BARRIER (SEE ROADWAY PLANS)
7. ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN
8. ITEM 611 - 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
9. ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET
10. ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1 (PER DM-1.1)

◪ FOR DITCH LOCATION AND WIDTH SEE ROADWAY PLAN AND SECTIONS.
◐ VARIES, SEE ROADWAY PLAN AND SECTIONS.

SLOPED SECTION DRAINAGE NOTES:

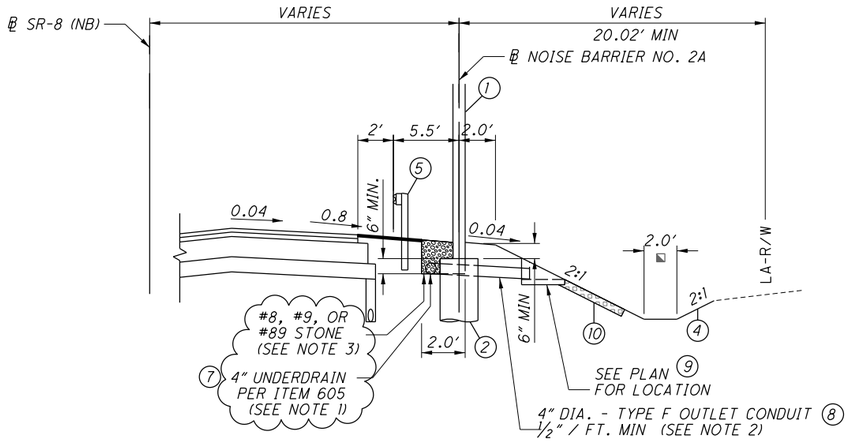
1. PROVIDE UNDERDRAIN SLOPE AS SPECIFIED IN PROJECT PLANS. INSTALL IN ACCORDANCE WITH ITEM 605.
2. INSTALL UNDERDRAIN OUTLETS AT 500' MAX. SPACING; INSTALL IN ACCORDANCE WITH ITEM 605.
3. STONE AND GEOTEXTILE FABRIC IS INCIDENTAL TO ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN.

ITEMS (1) AND (2) ARE TO BE INCLUDED WITH ITEM (1) ITEM 606 - SPECIAL, NOISE BARRIER FOR PAYMENT.

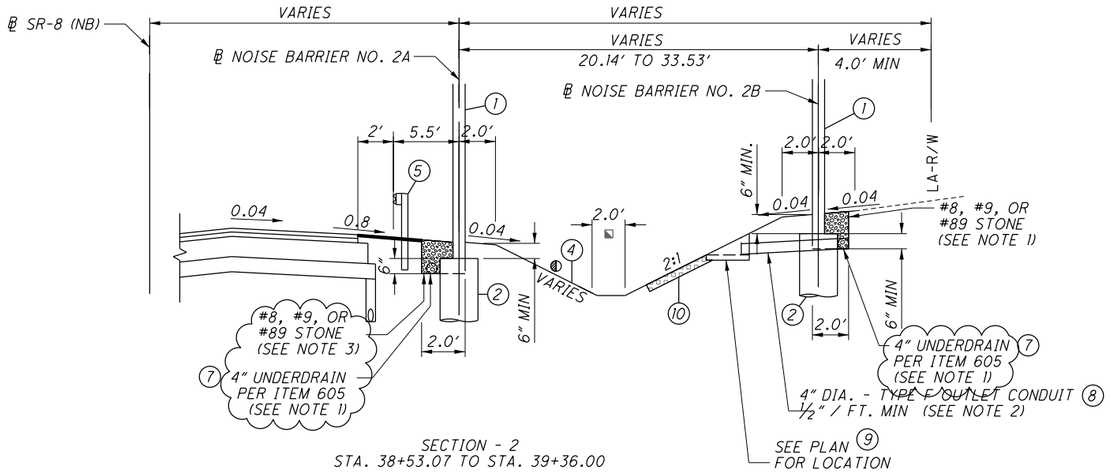
DRAWN PEK CHECKED PRS

NOISE BARRIER NO. 1B TYPICAL SECTIONS

SUM-8-1.75

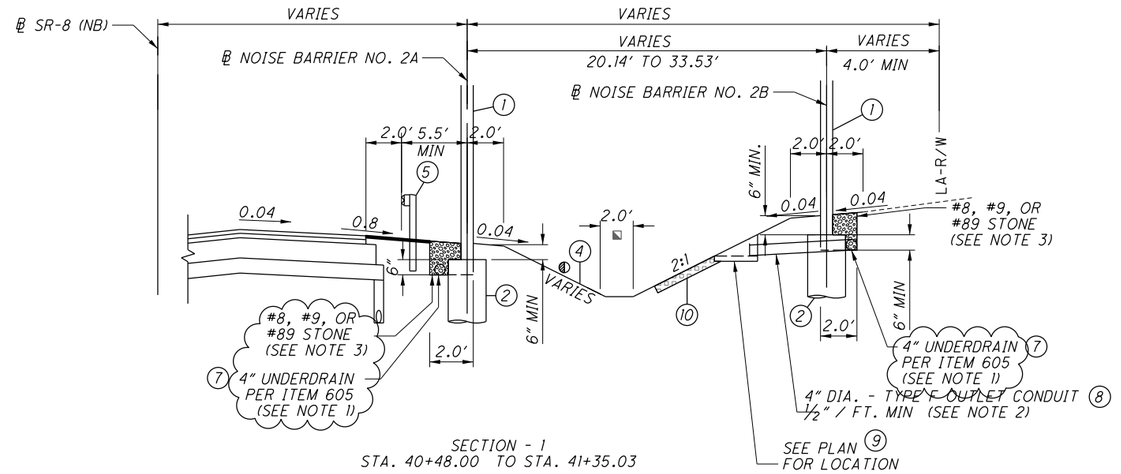


SECTION - 1
STA. 30+96.00 TO STA. 38+53.07

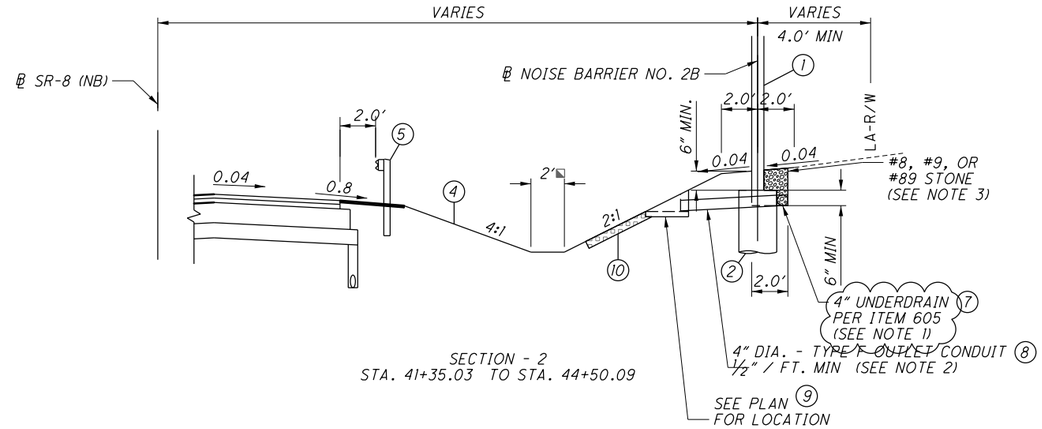


SECTION - 2
STA. 38+53.07 TO STA. 39+36.00

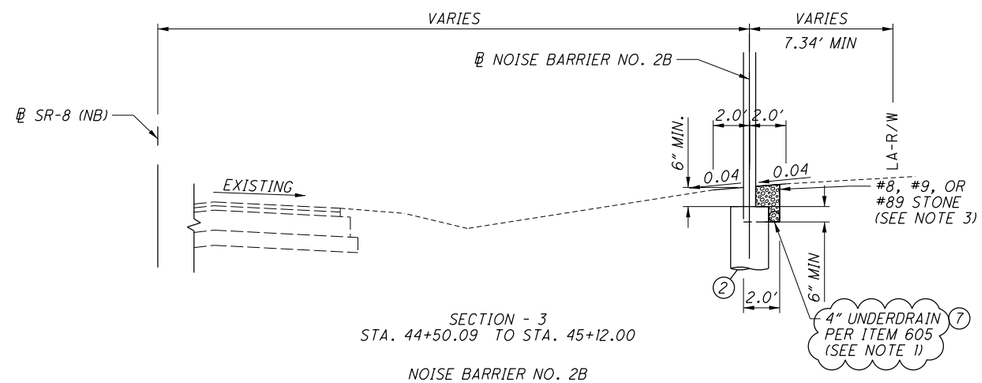
NOISE BARRIER NO. 2A
SECTION APPLIES:
STA. 30+96.00 TO STA. 39+36.00 = 840 FT



SECTION - 1
STA. 40+48.00 TO STA. 41+35.03



SECTION - 2
STA. 41+35.03 TO STA. 44+50.09



SECTION - 3
STA. 44+50.09 TO STA. 45+12.00

NOISE BARRIER NO. 2B
SECTION APPLIES:
STA. 40+48.00 TO STA. 45+12.00 = 464 FT

LEGEND

1. ITEM SPECIAL - NOISE BARRIER#
2. ITEM 524 - DRILLED SHAFTS, 30" DIAMETER#
3. ITEM 203 - EMBANKMENT
4. ITEM 659 - SEEDING AND MULCHING
5. ITEM 606 - GUARDRAIL (SEE ROADWAY PLANS)
6. ITEM 606 - CONCRETE BARRIER (SEE ROADWAY PLANS)
7. ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN
8. ITEM 611 - 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
9. ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET
10. ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1 (PER DM-1.1)

◪ FOR DITCH LOCATION AND WIDTH SEE ROADWAY PLAN AND SECTIONS.
◐ VARIES, SEE ROADWAY PLAN AND SECTIONS.

SLOPED SECTION DRAINAGE NOTES:

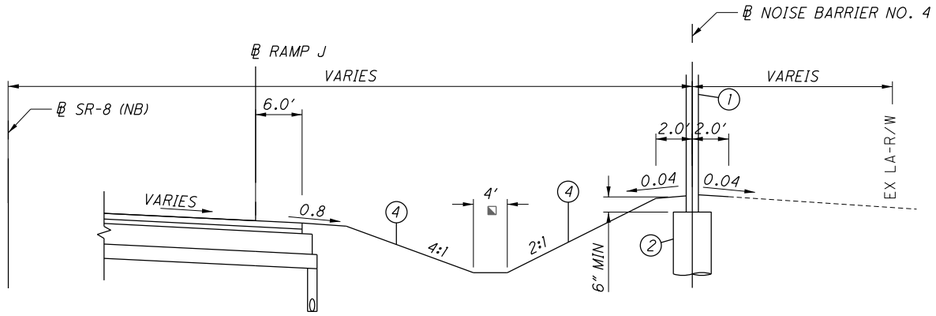
1. PROVIDE UNDERDRAIN SLOPE AS SPECIFIED IN PROJECT PLANS. INSTALL IN ACCORDANCE WITH ITEM 605.
2. INSTALL UNDERDRAIN OUTLETS AT 500' MAX. SPACING; INSTALL IN ACCORDANCE WITH ITEM 605.
3. STONE AND GEOTEXTILE FABRIC IS INCIDENTAL TO ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN.

ITEMS (1) AND (2) ARE TO BE INCLUDED WITH ITEM (1) ITEM 606 - SPECIAL, NOISE BARRIER FOR PAYMENT.

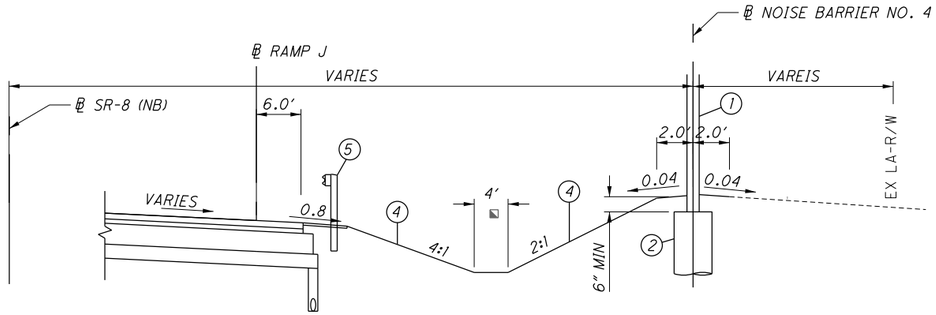
DRAWN PEK
CHECKED PRS

NOISE BARRIER NO. 2A & 2B TYPICAL SECTIONS

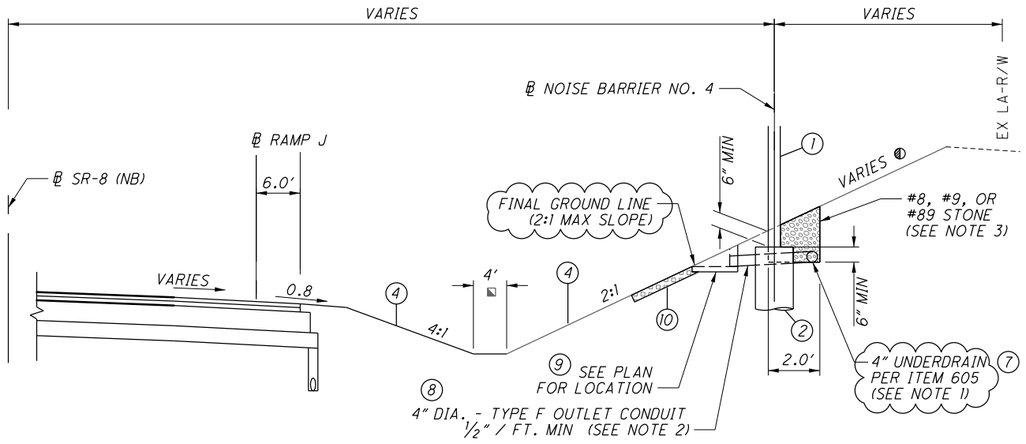
SUM-8-1.75



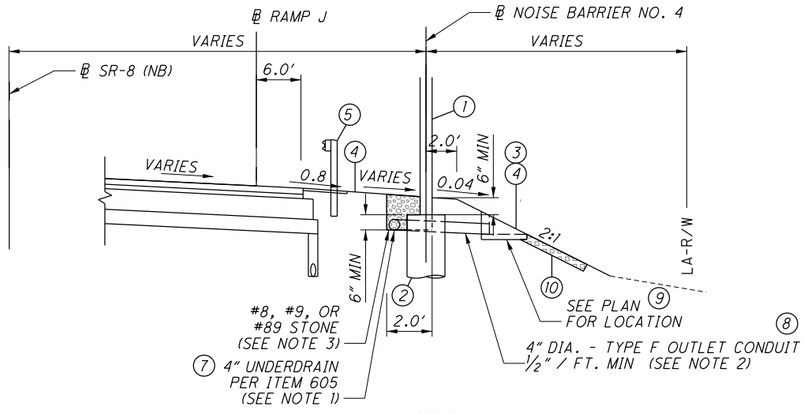
SECTION - 1
STA. 70+00.00 TO STA. 72+16.00



SECTION - 3
STA. 75+68.00 TO STA. 77+04.00



SECTION - 2
STA. 72+16.00 TO STA. 75+68.00



SECTION - 4
STA. 77+04.00 TO STA. 79+60.00

NOISE BARRIER NO. 4
SECTION APPLIES:
STA. 70+00.00 TO STA. 79+60.00 = 960 FT

LEGEND

1. ITEM SPECIAL - NOISE BARRIER#
2. ITEM 524 - DRILLED SHAFTS, 30" DIAMETER#
3. ITEM 203 - EMBANKMENT
4. ITEM 659 - SEEDING AND MULCHING
5. ITEM 606 - GUARDRAIL (SEE ROADWAY PLANS)
6. ITEM 606 - CONCRETE BARRIER (SEE ROADWAY PLANS)
7. ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN
8. ITEM 611 - 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
9. ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET
10. ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE I (PER DM-1.1)

◪ FOR DITCH LOCATION AND WIDTH SEE ROADWAY PLAN AND SECTIONS.
◐ VARIES, SEE ROADWAY PLAN AND SECTIONS.

SLOPED SECTION DRAINAGE NOTES:

1. PROVIDE UNDERDRAIN SLOPE AS SPECIFIED IN PROJECT PLANS. INSTALL IN ACCORDANCE WITH ITEM 605.
2. INSTALL UNDERDRAIN OUTLETS AT 500′ MAX. SPACING; INSTALL IN ACCORDANCE WITH ITEM 605.
3. STONE AND GEOTEXTILE FABRIC IS INCIDENTAL TO ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN.

ITEMS (1) AND (2) ARE TO BE INCLUDED WITH ITEM (1) ITEM 606 - SPECIAL, NOISE BARRIER FOR PAYMENT.

DRAWN PEK
CHECKED PRS

NOISE BARRIER NO. 4 TYPICAL SECTIONS

SUM-8-1.75

NOISE BARRIER

GENERAL

1. NOISE BARRIER DETAILS AND CONSTRUCTION SHALL ADHERE TO NBS-1-09.

2. NOISE BARRIER PANELS, POSTS, AND CAPS SHALL BE CONCRETE.

3. NOISE BARRIER POSTS, AND CAPS SHALL HAVE A SMOOTH FINISH.

4. NOISE BARRIERS SHALL BE SOUND REFLECTIVE.

5. AN ODOT APPROVED CONCRETE WATERPROOFING ADMIXTURE (INTEGRAL TO THE MIX) SHALL BE USED FOR ALL CONCRETE POSTS. PENETRON, MASTER BUILDER SOLUTIONS MASTERLIFE 300 SERIES, SIKA WT-240 P, SIKA MIX AE-6, AND CONBLOCK CDA ARE ODOT APPROVED CONCRETE WATERPROOFING ADMIXTURES. THE POSTS SHALL NOT BE SEALED WITH A COLORED NON-EPOXY SEALER

6. USE 1.25" FOAM BACKER ROD IN LIEU OF 0.75".

7. THE 6" POST RUSTIFICATION GROOVE SHALL MEET THE TOP OF THE HIGHEST ADJACENT PANEL.

AESTHETIC TREATMENTS

1. FOR NOISE BARRIERS 1A AND 1B, COLOR AND TEXTURE ON THE ROADWAY SIDE WILL BE AS DETAILED IN THE AESTHETIC DRAWINGS. THE COLOR AND TEXTURE ON THE RESIDENT SIDE WILL BE TAUPE (FEDERAL STANDARD 20095) WITH ARCHITECTURAL POLYMERS SMALL AGED ASHLAR STONE 905 (OR ENGINEER APPROVED EQUAL). FOR ROADWAY SIDE AESTHETIC ELEVATIONS, SEE SHEETS 482-485.

2. FOR NOISE BARRIERS 2A AND 2B, COLOR AND TEXTURE ON THE ROADWAY SIDE WILL BE AS DETAILED IN THE AESTHETIC DRAWINGS. THE COLOR AND TEXTURE ON THE RESIDENT SIDE WILL BE TAN (FEDERAL STANDARD 10324) WITH ARCHITECTURAL POLYMERS LARGE STONE OHIO DRYSTACK #9110 (OR ENGINEER APPROVED EQUAL). FOR ROADWAY SIDE AESTHETIC ELEVATIONS, SEE SHEETS 486-488.

3. FOR NOISE BARRIER 3, COLOR AND TEXTURE ON THE ROADWAY SIDE WILL BE AS DETAILED IN THE AESTHETIC DRAWINGS. THE COLOR AND TEXTURE ON THE RESIDENT SIDE WILL BE TAN (FEDERAL STANDARD 10324) WITH ARCHITECTURAL POLYMERS SMALL AGED ASHLAR STONE 905 (OR ENGINEER APPROVED EQUAL). FOR ROADWAY SIDE AESTHETIC ELEVATIONS, SEE SHEETS 489-490.

4. FOR NOISE BARRIER 4, COLOR AND TEXTURE ON THE ROADWAY SIDE WILL BE AS DETAILED IN THE AESTHETIC DRAWINGS. THE COLOR AND TEXTURE ON THE RESIDENT SIDE WILL BE TAUPE (FEDERAL STANDARD 20095) WITH ARCHITECTURAL POLYMERS VALLEY FORGE FIELDSTONE #912 (OR ENGINEER APPROVED EQUAL). FOR ROADWAY SIDE AESTHETIC ELEVATIONS, SEE SHEETS 491-492.

5. FOR LANDSCAPE DRAWINGS, SEE SHEETS 430 TO 438.

6. THE ICON DRAWING PREPARED BY THE CONCRETE FORMLINER COMPANY MUST BE SUBMITTED TO ODOT DISTRICT ENVIRONMENTAL STAFF AND OES CENTRAL OFFICE BY THE NOISE WALL CONTRACTOR OR SUPPLIER FOR ODOT REVIEW AND WRITTEN APPROVAL BEFORE THE ICON PANEL IS PRODUCED. ODOT SHOULD COORDINATE THE ICON DRAWING WITH THE LOCALS WHO REQUESTED THE ICON. REFER TO AESTHETIC TREATMENT SPECIAL PROVISION FOR CASTING NOTES, DETAIL AND MOCK-UP REQUIREMENTS, CONCRETE FINISH AND NOTES.

7. THE COST FOR NOISE BARRIER AESTHETIC TREATMENTS FOR FORM LINERS, PATTERNS AND VIGNETTES, INCLUDING ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, PREPARATION OF SHOP DRAWINGS, SAMPLE PANELS, FABRICATION, HANDLING, STORAGE, CLEANING, CONCRETE FINISHING, SEALING, AND ANY INCIDENTAL NECESSARY TO COMPLETE THE WORK WILL BE PAID AT THE CONTRACT BID PRICE FOR:

ITEM 511 - CONCRETE MISC.: FORM LINER	LUMP SUM
ITEM 511 - CONCRETE MISC.: BAS-RELIEF IMAGES AND TEXT	6 EACH

ITEM 605 4" SHALLOW PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 605, THIS ITEM WILL ALSO INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND HARDWARE TO CONSTRUCT THE 4" SHALLOW PIPE UNDERDRAINS WITH #8, #9 OR #89 STONE PLACED FROM FACE OF PROPOSED NOISEWALL TO BACK OF CONCRETE BARRIER AND GEOTEXTILE FABRIC UNDER THE STONE AS SHOWN IN THE UNDERDRAIN TRENCH DETAIL ON SHEET 3/22.

NOISE BARRIER QUANTITIES

REF NO.	SHEET NO. (x/22)	STATION FROM	STATION TO	601 TIED CONCRETE BLOCK MAT, WITH TYPE 1 UNDERLAYMENT SY		606 SPECIAL - NOISE BARRIER (REFLECTIVE) SF		605 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN FT		611 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT		611 PRECAST REINFORCED CONCRETE OUTLET EACH	
NSA NO. 1A	9-10	0+80.00	8+96.00	2		15408		816		12		1	
NSA NO. 1B	11-13	10+00.00	21+52.00			20224							
NSA NO. 2A	14-15	30+96.00	39+36.00	2		11992		840		14		1	
NSA NO. 2B	16	40+48.00	45+12.00	2		5456		464		15		1	
		40+45.00	45+48.00	2				3		9		1	
NSA NO. 3	17-18	51+04.00	59+36.00			11144							
		51+04.00	53+84.00	2				280		14		1	
		57+44.00	59+39.00	2				195		10		1	
NSA NO. 4	19-20	70+00.00	79+60.00			15336							
		72+16.00	75+68.00	2				352		6		1	
		77+20.00	79+60.00	2				240		7		1	
SUBTOTAL				16		79560		3190		87		8	

DRAWN PEK | CHECKED PRS

GENERAL NOTES AND QUANTITIES
NOISE BARRIERS

SUM-8-1.75

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD DRAWINGS:

AS-1-15 REVISED 7-17-15
AS-2-15 DATED 1-18-19
SBR-1-20 DATED 7-17-20

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

867 DATED 1-18-19
869 DATED 10-17-14
878 DATED 1-18-19

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 8TH EDITION AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

SPECIAL DESIGN SPECIFICATIONS:

SPECIAL DESIGN SPECIFICATIONS: THIS BRIDGE REQUIRED THE USE OF A THREE DIMENSIONAL MODEL USING THE FINITE ELEMENT DESIGN METHOD TO ANALYZE THE STRUCTURE. THE COMPUTER PROGRAM USED FOR THIS STRUCTURAL ANALYSIS WAS CSI BRIDGE. THE BRIDGE COMPONENTS DESIGNED BY THIS METHOD WERE THE STEEL GIRDERS AND CROSSFRAMES.

DEAD LOAD DISTRIBUTION: WEIGHT OF DECK AND STEEL GIRDERS WERE USED FOR THE NON-COMPOSITE DEAD LOAD BASED ON TRIBUTARY AREA. THE WEIGHT OF PARAPETS AND FUTURE WEARING SURFACE WERE DIVIDED EQUALLY AMONG THE GIRDERS FOR THE COMPOSITE DEAD LOAD.

LIVE LOAD DISTRIBUTION FACTORS:

DIRECT LANE LOADING FOR WHEEL (OR AXLE) LOAD & FOR LANE LOAD MOMENTS. DIRECT LANE LOADING FOR WHEEL (OR AXLE) LOAD & LANE LOAD SHEARS.

FOUNDATION BEARING RESISTANCE:

SUM-8-0199L/R REAR ABUTMENT FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM STRENGTH LOAD PRESSURE OF 22.68 KIPS PER SQUARE FOOT AND A MAXIMUM SERVICE LOAD PRESSURE OF 15.61 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE ON QC1 CONCRETE FILL IS A MINIMUM OF 104 KIPS PER SQUARE FOOT FOR THE NORTHBOUND BRIDGE AND 69.5 KIPS PER SQUARE FOOT FOR THE SOUTHBOUND BRIDGE.

LRFD LOAD MODIFIERS:

OPERATIONAL IMPORTANCE: A LOAD MODIFIER OF 1.05 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.

REDUNDANCY: THE FOLLOWING ITEMS WERE CONSIDERED NON-REDUNDANT FOR DESIGN AND INCLUDE A LOAD MODIFIER EQUAL TO 1.05 IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.4: PIER 1 THROUGH PIER 5.

DESIGN LOADING:

DESIGN LOADING: HL-93

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ. FT.

STAY IN PLACE (SIP) DECK FORMS OF 0.020 KIPS/SQ. FT.

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 5.0 KSI (PIER COLUMNS)

CONCRETE CLASS QC5 - COMPRESSIVE STRENGTH 4.5 KSI (DRILLED SHAFT)

CONCRETE CLASS QC4 - COMPRESSIVE STRENGTH 4.0 KSI (AS INDICATED BELOW)*

CONCRETE CLASS QC4 - COMPRESSIVE STRENGTH 5.0 KSI (AS INDICATED BELOW)**

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI.

STRUCTURAL STEEL - ASTM A709 GRADE 50W - YIELD STRENGTH 50 KSI AND
- ASTM A709 GRADE HPS 70W - YIELD STRENGTH 70 KSI AS INDICATED IN THE PLANS

CIP PILES - ASTM A252, GRADE 3 - YIELD STRENGTH 45 KSI

*THE FOLLOWING ELEMENTS ARE CONSIDERED MASS CONCRETE:
REAR AND FORWARD ABUTMENT BREASTWALLS
PIER 1 THRU 5 FOOTINGS
**THE FOLLOWING ELEMENTS ARE CONSIDERED MASS CONCRETE:
PIER 1 THRU 5 CAPITALS

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 2.74 KIPS AND TOTAL MACHINE LOAD OF 21.92 KIPS.

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

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 40.5".

DO NOT PLACE CONCRETE PUMP TRUCK OR ANY VEHICLE SUPPORTED ON OUTRIGGERS ON THE EXISTING TRUSS BRIDGES. DO NOT QUEUE CONCRETE TRUCKS OR DISCHARGE CONCRETE FROM TRUCKS LOCATED ON THE EXISTING TRUSS BRIDGES. DO NOT STORE MATERIAL ON THE EXISTING TRUSS BRIDGES.

ALL WORK IN ALL PHASES SHALL FOLLOW THE PERMITTED LANE CLOSURE CHART (PLCC). FAILURE TO MEET ANY OF THE PLCC REQUIREMENTS WILL RESULT IN A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127) OF $500 PER LANE PER MINUTE.

ANALYZE ALL STRUCTURES FOR THE LOAD EFFECTS CAUSED BY ALL VEHICLES SUPPORTED ON OUTRIGGERS IN ACCORDANCE WITH C&MS 501.05.B.6.

PILE DESIGN LOADS (ULTIMATE BEARING VALUE):

THE ULTIMATE BEARING VALUE IS 380 KIPS PER PILE FOR THE 93 FORWARD ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 658 KIPS PER PILE FOR THE 46 SOUTHBOUND PIER 5 PILES. THE ULTIMATE BEARING VALUE IS 693 KIPS PER PILE FOR THE 46 NORTHBOUND PIER 5 PILES. THE FACTORED STRUCTURAL RESISTANCE OF THE $\frac{5}{8}$" THICK, 16" DIAMETER CAST-IN-PLACE CONCRETE PILES AT PIER 5 IS 820 KIPS (ASSUMING AN UNBRACED LENGTH OF 15 FEET AND 0.38 INCHES OF PILE SECTION LOSS OVER THE 75-YEAR DESIGN LIFE OF THE STRUCTURE).

FORWARD ABUTMENT PILES (14" C.I.P. CONCRETE PILES) :
40 PILES 60 FEET LONG, ORDER LENGTH (SOUTHBOUND)
53 PILES 40 FEET LONG, ORDER LENGTH (NORTHBOUND)
1 DYNAMIC LOAD TESTING ITEM
PROVIDE PLAIN CYLINDRICAL PILE CASINGS WITH A MINIMUM PILE WALL THICKNESS OF $\frac{3}{8}$ INCHES FOR THE CAST-IN-PLACE REINFORCED CONCRETE ABUTMENT PILES.

PIER 5 PILES (16" C.I.P. CONCRETE PILES) :
46 PILES 90 FEET LONG, ORDER LENGTH (SOUTHBOUND)
46 PILES 80 FEET LONG, ORDER LENGTH (NORTHBOUND)
2 DYNAMIC LOAD TESTING ITEMS
PROVIDE PLAIN CYLINDRICAL PILE CASINGS WITH A MINIMUM PILE WALL THICKNESS OF $\frac{5}{8}$ INCHES FOR THE CAST-IN-PLACE REINFORCED CONCRETE PIER 5 PILES

MONOLITHIC WEARING SURFACE:

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

PILE DRIVING

USE A PILE DRIVING HAMMER OF A MINIMUM RATED ENERGY OF: 43,000 FOOT-POUNDS (ABUTMENT), 51,300 FOOT-POUNDS (NB PIER 5), AND 57,500 FOOT-POUNDS (SB PIER 5) TO INSTALL THE PILES. ENSURE THAT STRESSES IN THE PILES DURING DRIVING DO NOT EXCEED 35 KSI.

DRILLED SHAFTS:

THE MAXIMUM FACTORED LOAD SUPPORTED BY EACH DRILLED SHAFT IS INDICATED IN THE TABLE BELOW. THESE LOADS ARE RESISTED BY BOTH SIDE RESISTANCE AND TIP RESISTANCE AS INDICATED IN THE TABLE BELOW:

LOCATION	MAXIMUM FACTORED LOAD (KIPS)	MAXIMUM FACTORED UPLIFT LOAD (KIPS)	FACTORED TIP RESISTANCE (KIPS)	FACTORED SIDE RESISTANCE (KIPS)	FACTORED UPLIFT RESISTANCE (KIPS)	ASSUMED LENGTH OF SIDE RESISTANCE (FT)
PIER 1 NB	5011	453	11016	863	628	6
PIER 1 SB	4590	500	4987	728	529	16
PIER 2 NB	4044	0	6526	834	607	6
PIER 2 SB	4546	0	5576	100	73	7.5
PIER 3 NB	4439	267	6799	404	294	8
PIER 3 SB	4152	0	11582	269	196	6.5
PIER 4 NB	4288	52	3790	729	530	21
PIER 4 SB	3749	179	14072	1087	790	6.5

PAINTING OF A588/A709 GRADE 50W & 70W STEEL

PARTIAL PAINTING OF A709 GRADE 50W STEEL: PAINT THE LAST 10 FT OF EACH GIRDER END ADJACENT TO THE ABUTMENTS AND WITHIN 20' OF PIER CENTERLINE, INCLUDING ALL CROSS FRAMES AND OTHER STEEL WITHIN THESE LIMITS. THE PRIME COAT SHALL BE 708.01. THE TOP COAT COLOR SHALL CLOSELY APPROACH FEDERAL STANDARD NO. 595B - 20045 OR 20059 (THE COLOR OF WEATHERING STEEL).

TEMPORARY SHORING TOWER LOADS

ESTIMATED MAXIMUM LOADS FOR TEMPORARY SHORING TOWERS ARE LISTED IN THE EXISTING TRUSS REMOVAL SHEETS ON SHEET 49/226. THE LOADS ARE APPROXIMATE AND ARE INTENDED TO GIVE BIDDERS AN ORDER OF MAGNITUDE FOR ESTIMATING THE WORK. ACTUAL TEMPORARY SHORING TOWER LOADS ARE TO BE DETERMINED BY THE CONTRACTOR.

EXISTING STRUCTURE PLANS:

INCLUDING DESIGN PLANS, SHOP DRAWINGS, AND RECONSTRUCTION PLANS ARE AVAILABLE FOR REVIEW AT THE ODOT DISTRICT 4 OFFICE, 2088 SOUTH ARLINGTON RD., AKRON, OHIO

PLANS ARE ALSO AVAILABLE FOR VIEWING ON THE FOLLOWING WEBSITE:

ftp://ftp.dot.state.oh.us/pub/Districts/D04

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 C.M.S. SECTIONS 102.05, 105.02 AND 513.04.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

MAINTENANCE OF TRAFFIC

FOR MAINTENANCE OF TRAFFIC NOTES, PERMITTED LANE CLOSURES AND DETAILS, REFER TO THE MAINTENANCE OF TRAFFIC PLANS.

E NORTH STREET BUS GARAGE

THE CONTRACTOR SHALL MINIMIZE CLOSURES AND CONSTRUCTION IMPACTS TO THE AKRON CITY SCHOOL DISTRICT BUS GARAGE PROPERTY. FENCE SHALL BE USED TO SEPARATE THE WORK ZONE FROM THE AREA MADE AVAILABLE TO THE GARAGE. AFTER NORTHBOUND PIER 3 CONSTRUCTION IS COMPLETE AND THE SURROUNDING AREA IS RESTORED, IT SHALL BE MADE AVAILABLE FOR USE BY THE GARAGE AS SOON AS PRACTICAL. ANY ADDITIONAL DISTURBANCES DURING CONSTRUCTION SHALL BE RESTORED TO THE EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE. SEE SHEET 18 FOR ADDITIONAL INFORMATION.

SPECIAL RAILROAD REQUIREMENTS:

THESE REQUIREMENTS APPLY TO ALL RAILROADS UNLESS OTHERWISE SUPERCEDED BY THE SPECIFIC RAILROAD'S REQUIREMENTON SHEET 15/223, OR BY OTHER RAILROAD SPECIFIC REQUIREMENTS INCORPORATED BY REFERENCE IN THE NOTES OR BID PROPOSAL.

MAINTAIN A CONSTRUCTION CLEARANCE OF 12 FEET HORIZONTALLY FROM THE CENTER OF TRACKS AND 23 FEET VERTICALLY FROM A POINT LEVEL WITH THE TOP OF THE HIGHER RAIL, AND 6 FEET FROM THE CENTER OF THE TRACKS, AT ALL TIMES.

REFER TO THE NOTES IN THE LAUNCHING SPECIAL PROVISIONS DOCUMENT FOR REQUIREMENTS REGARDING WORK ON OR ABOVE RAILWAY PROPERTY.

THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS, CALCULATIONS AND PROCEDURES PREPARED BY A REGISTERED PROFESSIONAL ENGINEER TO THE DISTRICT AND EACH RAILWAY FOR ALL DEMOLITION WORK ABOVE OR ADJACENT TO THE TRACKS OF EACH RAILWAY. THE PLAN AND PROCEDURE SHALL INDICATE THE METHOD OF PROTECTION FOR THE TRACK STRUCTURE, THE SEQUENCE OF DEMOLITION, AND THE PROCEDURES AND EQUIPMENT TO BE USED. NO DEBRIS SHALL BE ALLOWED TO INTENTIONALLY FALL ONTO RAILWAY PROPERTY. NO STAGING OF EQUIPMENT OR MATERIAL IS PERMITTED ON RAILWAY PROPERTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE RAILWAY'S ENGINEER OR AUTHORIZED REPRESENTATIVE.

DURING REMOVAL OF THE EXISTING STRUCTURE, THE MINIMUM CONSTRUCTION VERTICAL CLEARANCES SHALL NOT BE REDUCED. MINIMUM CONSTRUCTION HORIZONTAL CLEARANCES LISTED IN THE SPECIAL CLAUSES OF THE BID PROPOSAL FOR EACH RAILWAY SHALL BE MAINTAINED TO ANY TEMPORARY FALSE WORK, STOCKPILED MATERIALS, OR OTHER OBSTRUCTION WHICH WILL BE LEFT IN PLACE DURING TRAIN MOVEMENTS THROUGH THE JOB SITE.

UPON COMPLETION OF THE WORK ON RAILROAD PROPERTY, THE CONTRACTOR SHALL REQUEST THE ENGINEER TO ARRANGE A FINAL INSPECTION OF THE PROJECT WITH EACH RAILWAY'S DIVISION ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

ESTIMATED QUANTITIES

CALC.	DATE	CHK'D	DATE
ATM	2019 SEP	ELP	2019 SEP

ITEM	ITEM EXT.	TOTAL SOUTHBOUND	TOTAL NORTHBOUND	PART. 01/BRO/11	PART. 02/NHS/31**	PART. 03/NHS/20	PART. 04/NHS/04	UNIT	DESCRIPTION	SOUTHBOUND ABUT.	SOUTHBOUND PIERS	SOUTHBOUND SUPER.	SOUTHBOUND GEN.	NORTHBOUND ABUT.	NORTHBOUND PIERS	NORTHBOUND SUPER.	NORTHBOUND GEN.	SHEET REF.
202	11003		LUMP	LUMP					STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN									15/226
202	22900		521	521				SY	APPROACH SLAB REMOVED								521	
203	20001	5,038	1,107	6,145				CY	EMBANKMENT, AS PER PLAN*	5,038				1,107				15/226
203	35110	100	100	200				CY	GRANULAR MATERIAL, TYPE B*		100				100			
304	20000	130	130	260				CY	AGGREGATE BASE*		130				130			
503	11101	LUMP	LUMP	LUMP					COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN									16/226
503	21101	4,506	7,675	12,181				CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	2,015	2,491			5,854	1,821			16/226
503	31100		829	829				CY	ROCK EXCAVATION					664	165			
503	31500	LUMP	LUMP	LUMP					STRUCTURAL EXCAVATION, MISC.: LAUNCHING PIT									16/226
503	31500	LUMP	LUMP	LUMP					STRUCTURAL EXCAVATION, MISC.: RECEIVING PIT									16/226
505	11100	LUMP	LUMP	LUMP					PILE DRIVING EQUIPMENT MOBILIZATION									
507	00600	2,200	1,855	4,055				FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	2,200				1,855				
507	00650	2,400	2,120	4,520				FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	2,400				2,120				
507	00700	3,910	3,450	7,360				FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		3,910				3,450			
507	00750	4,140	3,680	7,820				FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		4,140				3,680			14/226
509	10000	3,006,458	3,016,127	6,011,568	11,017			LB	EPOXY COATED STEEL REINFORCEMENT	201,151	1,245,219	1,560,088		235,878	1,236,580	1,543,669		
509	30020	53,782	53,366	107,148				FT	NO. 4 DEFORMED GFRP REINFORCEMENT			53,782				53,366		
510	10000	220	220	440				EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		220				220			
511	34447	4,414	4,349	8,763				CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN			4,407	7			4,340	9	16/226
511	34450	515	506	1,021				CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			495	20			486	20	
511	42012	1,570	1,649	3,219				CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		1,570				1,649			
511	42512	91	91	182				CY	CLASS QC1 CONCRETE WITH QC/QA, PIER CAP		91				91			
511	44112	400	433	833				CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	400				433				
511	45602	2,169	2,164	4,333				CY	CLASS QC4 MASS CONCRETE, SUBSTRUCTURE WITH QC/QA	624	1,545			619	1,545			
511	45603	4,999	4,854	9,853				CY	CLASS QC4 MASS CONCRETE, SUBSTRUCTURE WITH QC/QA, AS PER PLAN		4,999				4,854			16/226
511	46012	131	354	485				CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING	131				354				
511	46512	479	624	1,103				CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	479				624				
511	53010	114		114				CY	CLASS QC1 CONCRETE, MISC.: FILL CONCRETE	114								16/226
511	53010	147			147			CY	CLASS QC1 CONCRETE, MISC.: MONUMENT				147					
511	53010	250	250	500				CY	CLASS QC1 CONCRETE, MISC.: FOOTING APRON		250				250			16/226
512	10001	1,808	1,957	3,765				SY	SEALING OF CONCRETE SURFACES, AS PER PLAN	420	1,388			569	1,388			16/226
512	10050	1,835	1,872	3,707				SY	SEALING OF CONCRETE SURFACES, (NON-EPOXY)	191		1,644		259		1,613		
512	10051	7,341	7,666	14,751	256			SY	SEALING OF CONCRETE SURFACES, (NON-EPOXY), AS PER PLAN	420	4,810	2,111		825	4,770	2,071		16/226
512	33000	129	156	285				SY	TYPE 2 WATERPROOFING	129				156				
513	10401	8,161,522	7,691,232	15,852,754				LB	STRUCTURAL STEEL MEMBERS, HYBRID GIRDER, LEVEL SIX (6) FABRICATION, AS PER PLAN			8,161,522				7,691,232		16/226
513	20000	23,330	23,248	46,578				EACH	WELDED STUD SHEAR CONNECTORS	326		23,004		316		22,932		
513	90000	35,909			35,909			LB	STRUCTURAL STEEL, MISC.: MONUMENT				35,909					16/226
513	95020	LUMP	LUMP	LUMP					STRUCTURAL STEEL, MISC.: STRUCTURAL STEEL ERECTION EQUIPMENT									16/226
514	00060	39,124	39,028	78,152				SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			39,124				39,028		
514	00066	39,124	39,028	78,152				SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			39,124				39,028		
514	27700		3,727		3,727			SF	FIELD PAINTING, MISC.: MONUMENT DECORATIVE STEEL								3,727	18/226
516	12400	162	157	319				FT	SPECIAL - MODULAR EXPANSION JOINT	162				157				17/226
516	13600	271	344	615				SF	1" PREFORMED EXPANSION JOINT FILLER	142	129			215	129			
516	13900	102	102	204				SF	2" PREFORMED EXPANSION JOINT FILLER	102				102				

LEGEND:

* QUANTITY CARRIED TO GENERAL SUMMARY
** QUANTITY APPLIES TO THE REAR ABUTMENT MONUMENT

CALCULATED BY: ATM DATE: 2019 SEPT.
CHECKED BY: ELP DATE: 2019 SEPT.

ESTIMATED QUANTITIES (1 OF 2)
BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS
(CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

DESIGN AGENCY: ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229

DESIGNED ATM | CHECKED ELP | DRAWN ATM | REVISED | REVIEWED GLG | DATE 20-APR | STRUCTURE FILE NUMBER 7700370/7700371

ESTIMATED QUANTITIES

CALC.	DATE	CHK'D	DATE
ATM	2019 SEP	ELP	2019 SEP

ITEM	ITEM EXT.	TOTAL SOUTHBOUND	TOTAL NORTHBOUND	PART. 01/BRO/11	PART. 02/NHS/31**	PART. 03/NHS/20	PART. 04/NHS/04	UNIT	DESCRIPTION	SOUTHBOUND ABUT.	SOUTHBOUND PIERS	SOUTHBOUND SUPER.	SOUTHBOUND GEN.	NORTHBOUND ABUT.	NORTHBOUND PIERS	NORTHBOUND SUPER.	NORTHBOUND GEN.	SHEET REF.
517	75000	107	109	216				FT	RAILING, ALUMINUM		107				109			
517	76300	3,218	3,155	6,373				FT	RAILING, MISC.: DECORATIVE RAILING WITH CHAIN LINK FENCE, AS PER PLAN			3,218				3,155		19/226
518	12200	21		21				EACH	SCUPPERS, INCLUDING SUPPORTS				21					
518	21200	949	1,096	2,045				CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	949				1,096				
518	42000	241	319	560				FT	8" PERFORATED CORRUGATED PLASTIC PIPE	241				319				
518	42010	202	317	519				FT	8" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	202				317				
518	51101	1,308		1,308				FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN				1,308					18/226
518	62200	3	3	6				EACH	STRUCTURE DRAINAGE, MISC.: PIER DRAINAGE AND VENTILATION		3				3			
523	20000	2	1	3				EACH	DYNAMIC LOAD TESTING	1	1				1			
524	94904	304	328	632				FT	DRILLED SHAFTS, 48" DIAMETER, INTO BEDROCK		304				328			
524	94906	856	528	1,384				FT	DRILLED SHAFTS, 54" DIAMETER, ABOVE BEDROCK		856				528			
524	95200	LUMP	LUMP	LUMP					DRILLED SHAFTS, MISC.: SHAFT INSPECTION DEVICE									18/226
526	30010	548	530	1,078				SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17")				548				530	
526	90010	167	159	326				FT	TYPE A INSTALLATION				167				159	
SPECIAL	530E00200	LUMP	LUMP	LUMP					STRUCTURE, MISC.: ACCESS DOORS - PIERS									18/226
SPECIAL	530E00200	LUMP	LUMP	LUMP					STRUCTURE, MISC.: LADDERS AND PLATFORMS - PIERS									18/226
SPECIAL	530E00200	LUMP	LUMP	LUMP					STRUCTURE, MISC.: LADDER SAFETY DEVICE - PIERS									18/226
SPECIAL	530E00200	LUMP	LUMP	LUMP					STRUCTURE, MISC.: BRIDGE CONSTRUCTION MONITORING									18/226
SPECIAL	530E00200	LUMP	LUMP	LUMP					STRUCTURE, MISC.: INTERIOR LIGHTING - PIERS									18/226
SPECIAL	530E00200	LUMP	LUMP	LUMP					STRUCTURE, MISC.: LIGHTING - BRIDGES, ABUTMENTS, PIERS									18/226
SPECIAL	530E00200		LUMP		LUMP				STRUCTURE, MISC.: AESTHETIC LIGHTING - MONUMENT									18/226
~~SPECIAL~~	~~530E00200~~	~~LUMP~~	~~LUMP~~	~~LUMP~~					~~STRUCTURE, MISC.: STRUCTURAL SURVEY AND MONITORING OF VIBRATION~~									18/226
SPECIAL	530E13000	21,720	22,158	43,878				SF	SPECIAL - FORM LINER	1,815	13,305	6,600		3,213	13,145	5,800		18/226
601	20010	385	490	875				CY	CRUSHED AGGREGATE SLOPE PROTECTION				385				490	
613	41200	400	300	700				CY	LOW STRENGTH MORTAR BACKFILL		400				300			
867	00100	LUMP	LUMP	LUMP					TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL									
869	00101	42	42	84				EACH	HIGH LOAD MULTI-ROTATIONAL (HLMR) BEARING, AS PER PLAN	12	30			12	30			18/226
894	10000	32	32	64				EACH	THERMAL INTEGRITY PROFILER (T.I.P.) TEST		32				32			18/226

LEGEND:

* QUANTITY CARRIED TO GENERAL SUMMARY
** QUANTITY APPLIES TO THE REAR ABUTMENT MONUMENT

CALCULATED BY: ATM DATE: 2019 SEPT.
CHECKED BY: ELP DATE: 2019 SEPT.

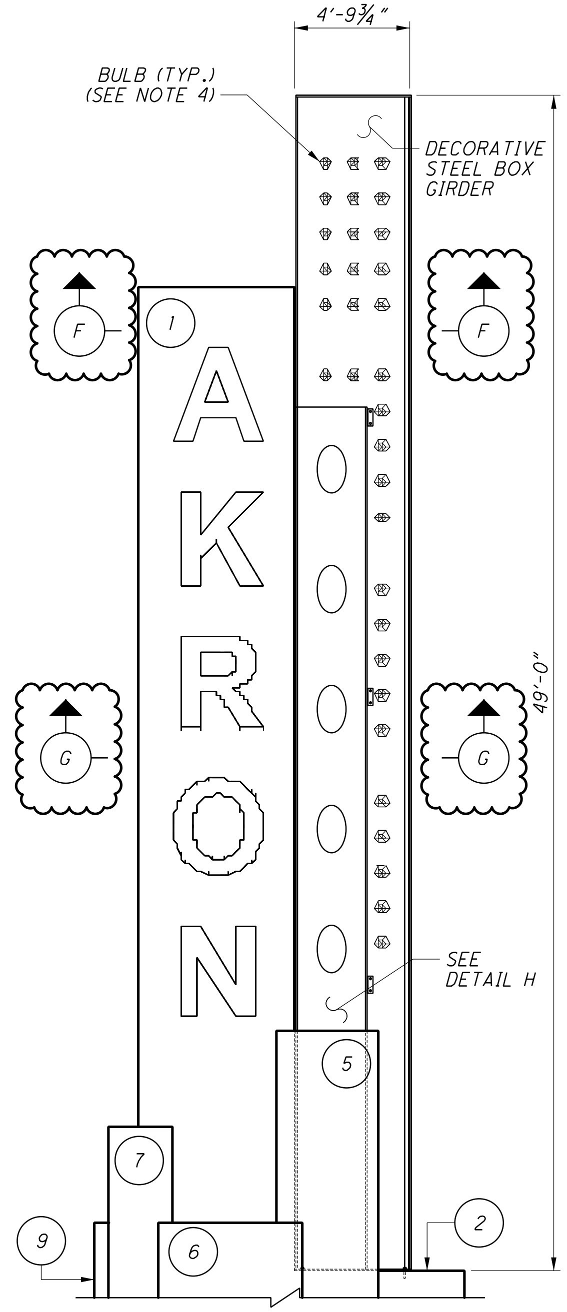
ESTIMATED QUANTITIES (2 OF 2)

BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS (CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

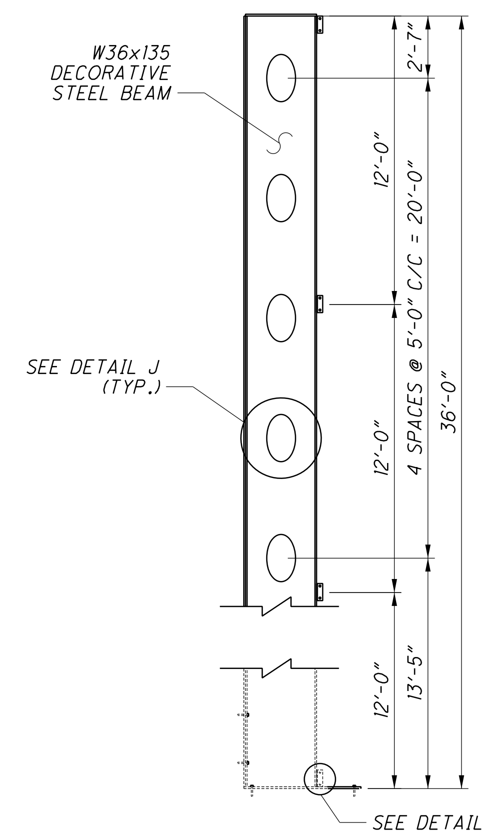
DESIGNED ATM | CHECKED ELP | DRAWN ATM | REVISED | REVIEWED GLG | DATE 20-APR | STRUCTURE FILE NUMBER 7700370/7700371



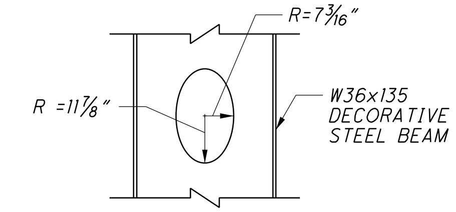
LEGEND:

(1) - MONUMENT STEP NUMBER

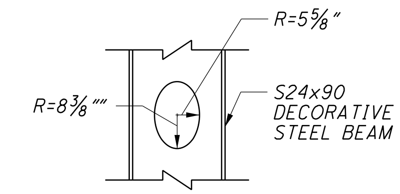
PORTION OF VIEW A-A



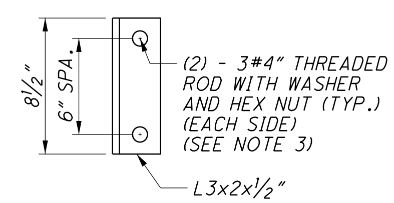
DETAIL H



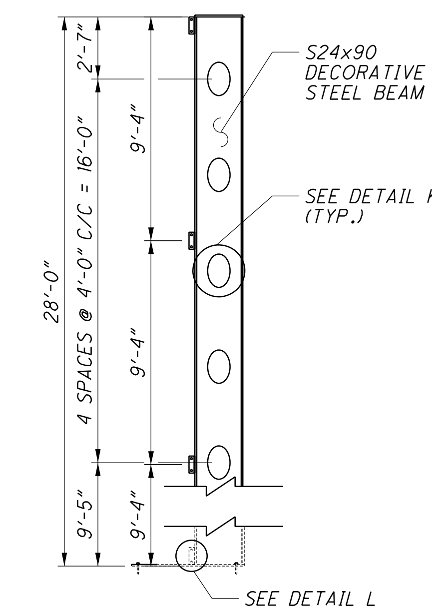
DETAIL J



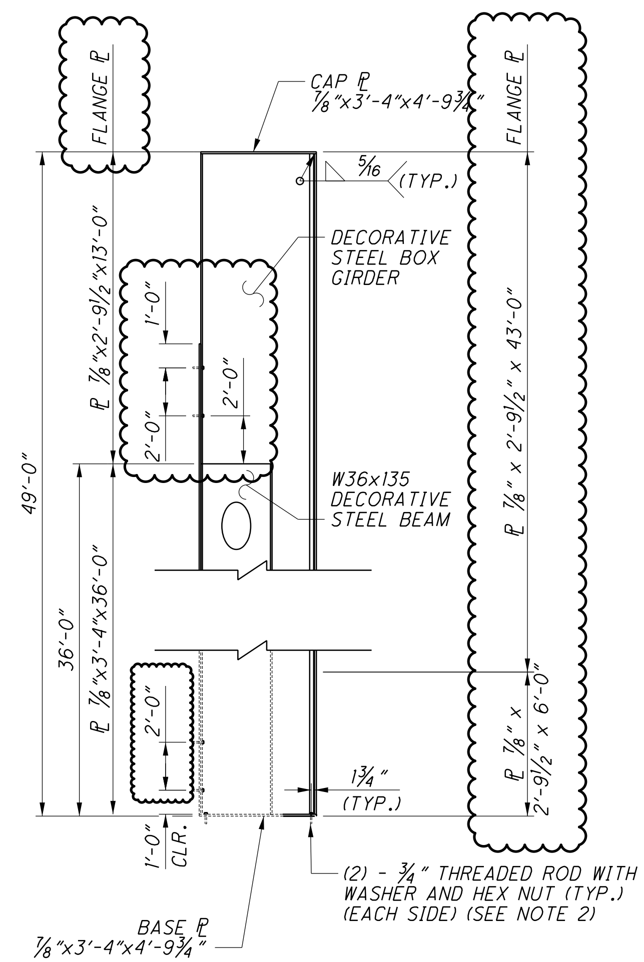
DETAIL K



DETAIL L



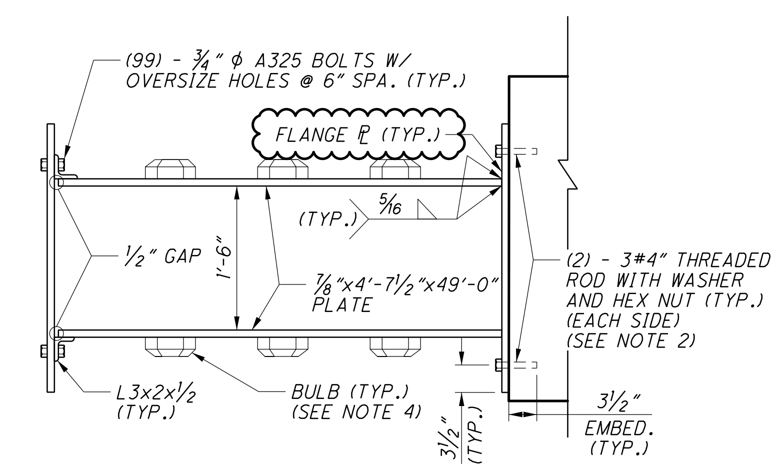
DETAIL I



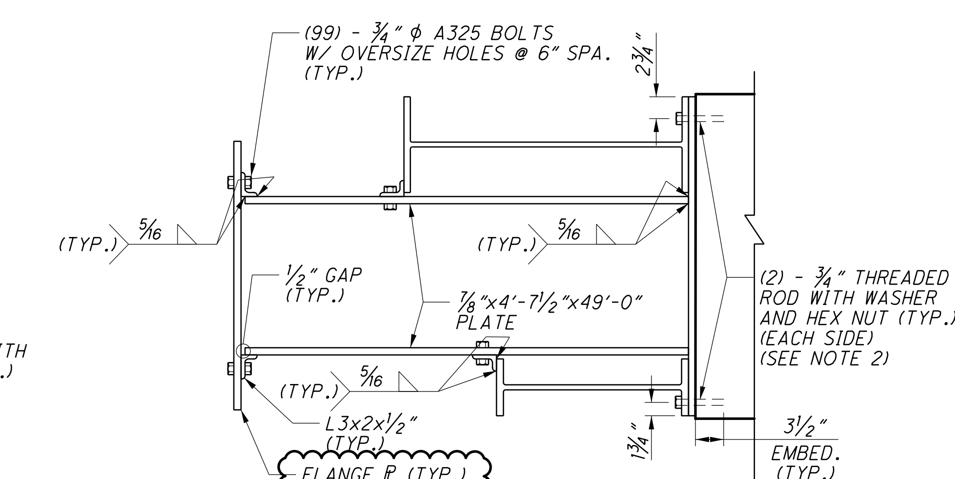
BOX GIRDER ELEVATION

(VIEW A-A)

(AESTHETIC LIGHTING NOT SHOWN, SEE NOTE 4)



SECTION F-F



SECTION G-G

(AESTHETIC LIGHTING NOT SHOWN, SEE NOTE 4)

NOTES:

1. FOR VIEW A-A, SEE SHEET 72/226.
2. THE THREADED RODS (12 TOTAL) MAY BE CAST IN CONCRETE OR POST-INSTALLED BY DRILLING DOWEL HOLES IN NON-SHRINK GROUT, INSTALLATION SHALL BE INCIDENTAL TO THE STEEL ITEM.
3. FOR LETTERING DETAILS, SEE SHEET 429A/801.
4. AESTHETIC LIGHTING DETAILS, SEE SHEET 424/801.

REAR ABUTMENT MONUMENT DECORATIVE STEEL DETAILS

BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS (CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75

PID No. 91710

DESIGNED	DRAWN	REVIEWED	DATE
KCL	DBL	GLG	20-APR
CHECKED	REVISED	STRUCTURE FILE NUMBER	
DEA		7700370/7700371	

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

1599'-6" C/C BRGS. (ALONG ℄ CONSTRUCTION SR-8 SB)

SPAN 1 = 260'-0" | SPAN 2 = 333'-6"

FIELD PIECE 1 = 80'-0" | FIELD PIECE 2 = 120'-0" | FIELD PIECE 3 = 120'-0" | FIELD PIECE 4 = 50'-0" | FIELD PIECE 5 = 113'-6"

CROSSFRAME SPA. ALONG ℄ GIRDERS: 6 SPA. @ 24'-2" = 145'-0" | 4 SPA. @ 15'-0" = 60'-0" | 4 SPA. @ 13'-9" = 55'-0" | 6 SPA. @ 13'-9" = 82'-6" | 7 SPA. @ 22'-1 5/16" = 154'-9"

12'-1" | 10'-6" | 5'-0" | 5'-0"

℄ FRONT STAY

INTERMEDIATE TRANSVERSE STIFFENER (TYP.)

INTERMEDIATE CROSSFRAME (TYP.)

TOP FLANGE LATERAL WIND BRACING (TYP.)

PIER CROSSFRAME (TYP. AT PIERS)

5 SPA. @ 15'-1" = 75'-5"

5'-1½"

1'-4½"

1 2 3 4 5 6

225 | 226 | 227 | 228 | 229

N 20° 57' 08" E

MATCHLINE STA. 229+00.00

℄ FIELD SPLICE 0 (SEE NOTE 1)

℄ BRG. R.A. STA. 225+02.84

END CROSSFRAME (TYP. AT ABUTMENTS)

5'-6"

TEMPORARY TOP AND BOTTOM FLANGE BRACING WT8X44.5 (TYP.)

7'-6"

℄ FIELD SPLICE 1

PERMANENT TOP FLANGE BRACING WT8X38.5 AND TEMPORARY BOTTOM FLANGE BRACING WT8X44.5

℄ CONSTRUCTION SR-8 SB

℄ FIELD SPLICE 2

5'-0"

℄ KING POST & INTERMEDIATE TRANSVERSE STIFFENER

℄ BRG. PIER 1 STA. 227+62.84

PERMANENT LATERAL BRACING (TOP ONLY) WT8X38.5 (TYP.)

5'-0"

℄ FIELD SPLICE 3

5'-5"

℄ FIELD SPLICE 4

SOUTHBOUND FRAMING PLAN

PART 1 OF 4

1599'-6" C/C BRGS. (ALONG ℄ CONSTRUCTION SR-8 SB)

SPAN 2 = 333'-6" | SPAN 3 = 340'-0"

FIELD PIECE 5 = 113'-6" | FIELD PIECE 6 = 50'-0" | FIELD PIECE 7 = 120'-0" | FIELD PIECE 8 = 50'-0" | FIELD PIECE 9 = 120'-0"

CROSSFRAME SPA. ALONG ℄ GIRDERS: 7 SPA. @ 22'-1 5/16" = 154'-9" | 7 SPA. @ 13'-9" = 96'-3" | 7 SPA. @ 13'-9" = 96'-3" | 7 SPA. @ 25'-0" = 175'-0"

℄ BACK STAY

PERMANENT LATERAL BRACING (TOP ONLY) WT8X38.5

PIER CROSSFRAME (TYP. AT PIERS)

INTERMEDIATE CROSSFRAME (TYP.)

5 SPA. @ 15'-1" = 75'-5"

MATCHLINE STA. 229+00.00

1 2 3 4 5 6

229 | 230 | 231 | 232 | 233

1'-4½"

69'-0"

MATCHLINE STA. 233+05.00

5'-8"

8'-4"

℄ FIELD SPLICE 5

℄ FIELD SPLICE 6

8'-9"

℄ BRG. PIER 2 STA. 230+96.34

5'-0"

℄ FIELD SPLICE 7

℄ FIELD SPLICE 8

11'-3"

℄ CONSTRUCTION SR-8 SB

SOUTHBOUND FRAMING PLAN

PART 2 OF 4

LEGEND:

(X) GIRDER NUMBER

MODIFIED BOTTOM CHORD SEE SHEET 121/226

NOTES:

1. FIELD SPLICE 0 IS PROVIDED FOR ATTACHMENT TO THE LAUNCHING NOSE.
2. FOR STIFFENER LOCATIONS AND DETAILS, SEE SHEETS 110/226 AND 111/226.
3. FOR CROSSFRAME DETAILS, SEE SHEETS 120/226 AND 121/226.
4. FOR SPLICE DETAILS, SEE SHEETS 124/226 AND 125/226.
5. FOR TEMPORARY LATERAL BRACING CONNECTION, SEE SHEET 201/226. FOR PERMANENT LATERAL BRACING CONNECTION, SEE SHEET 122/226.

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DESIGNED	DRAWN	REVIEWED	DATE
ABD	ABD	GLG	20-APR

CHECKED ELP | REVISED | STRUCTURE FILE NUMBER 7700370/7700371

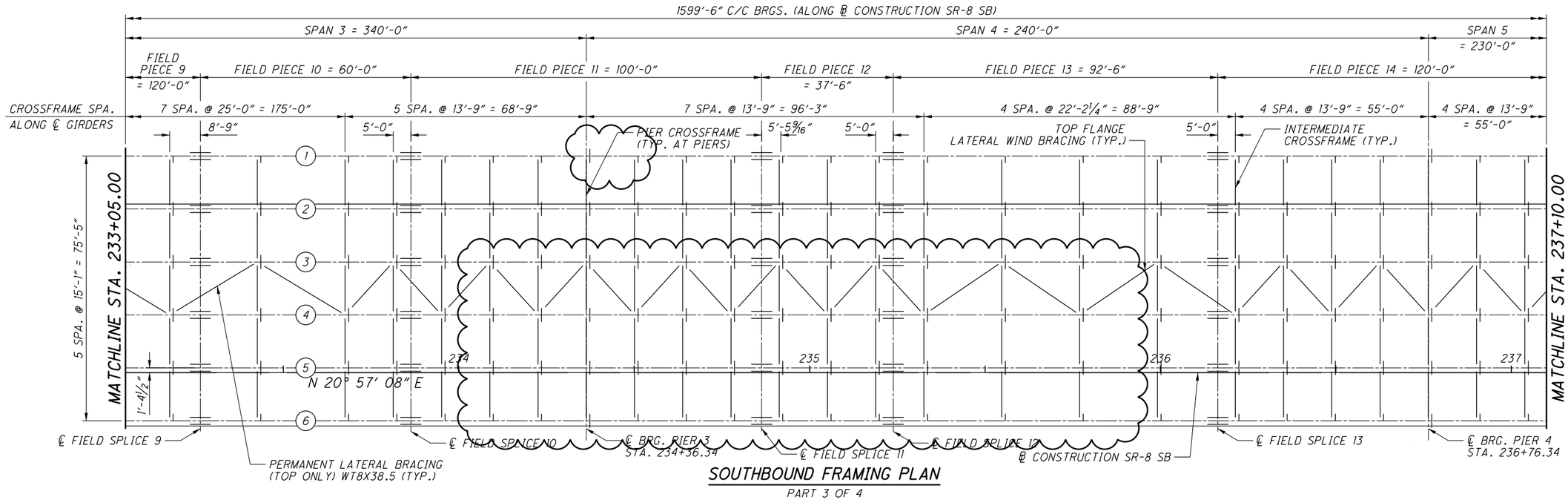
SOUTHBOUND BRIDGE FRAMING PLAN (1 OF 2)

BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS
(CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

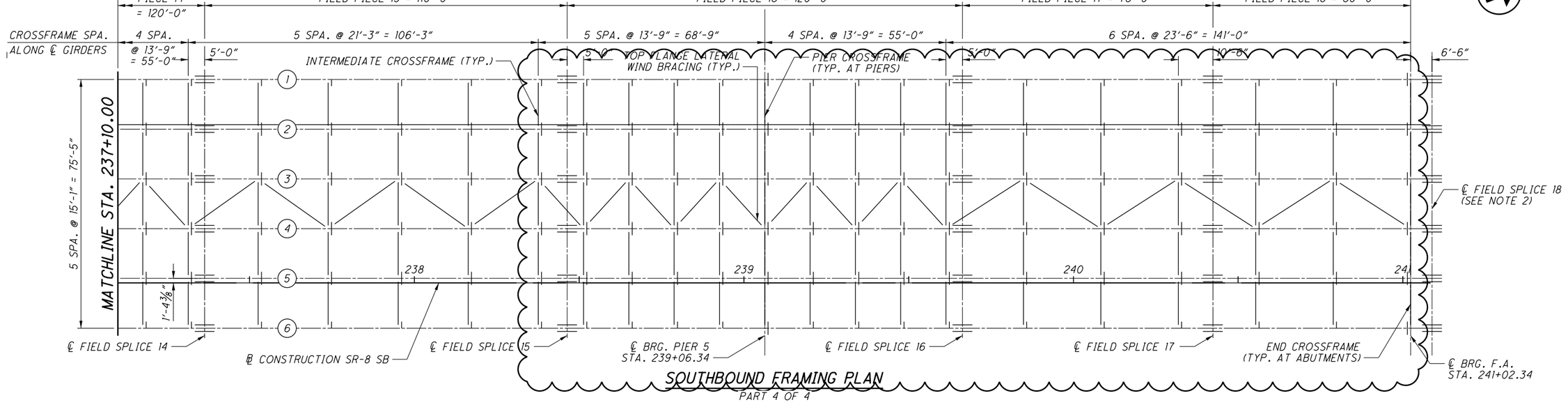
108/226

606
801



SOUTHBOUND FRAMING PLAN

PART 3 OF 4



SOUTHBOUND FRAMING PLAN

PART 4 OF 4

LEGEND:

(X) GIRDER NUMBER

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET 108/226.
2. FIELD SPLICE 18 PROVIDED FOR CONNECTION TO LAUNCHING TAIL.

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DESIGNED	DRAWN	REVIEWED	DATE
ABD	ABD	GLG	20-APR
CHECKED	REVISED	STRUCTURE FILE NUMBER	
ELP		7700370/7700371	

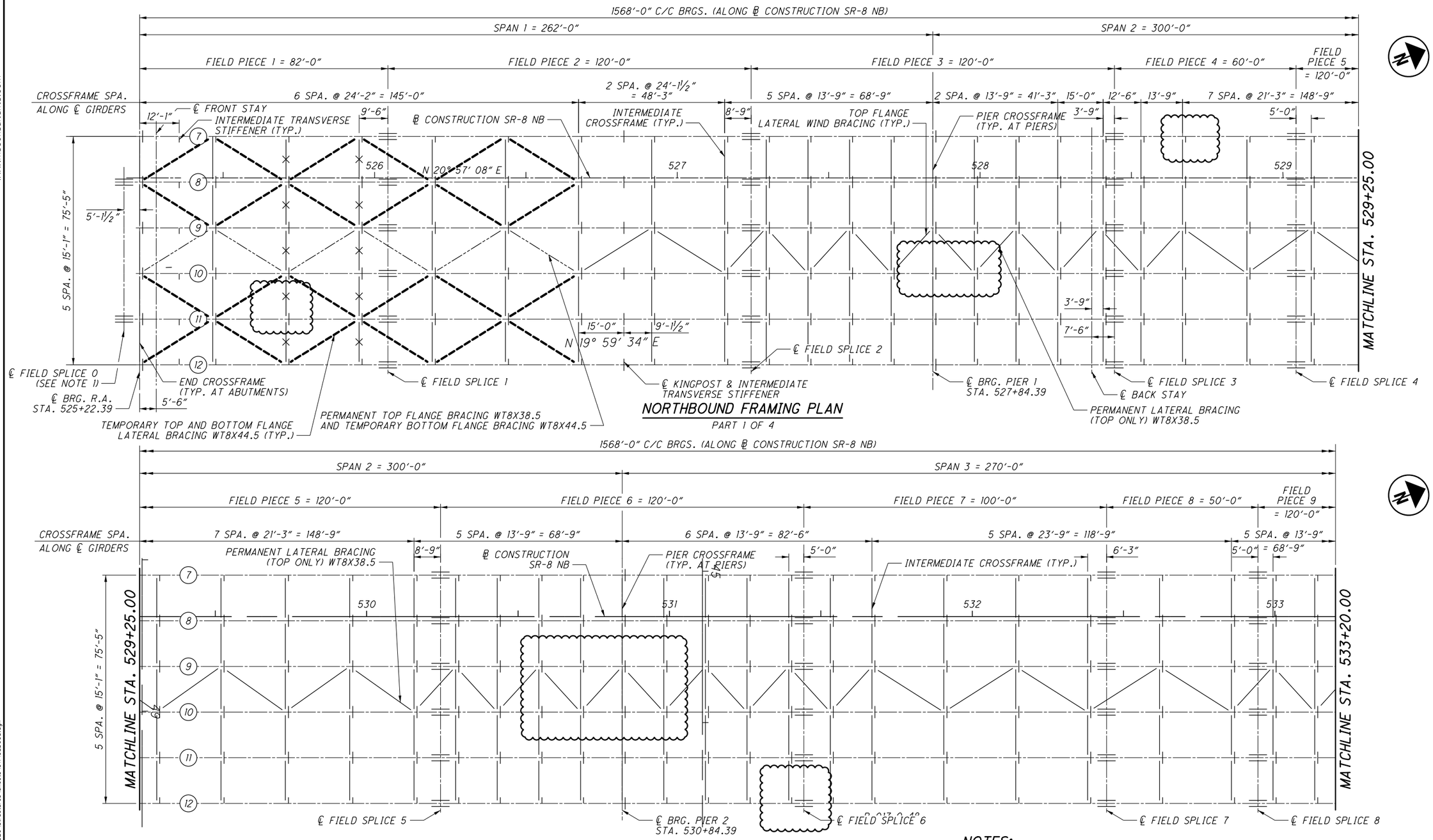
SOUTHBOUND BRIDGE FRAMING PLAN (2 OF 2)

BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS
(CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

109/226

607
801



NORTHBOUND FRAMING PLAN

PART 1 OF 4

NORTHBOUND FRAMING PLAN

PART 2 OF 4

LEGEND:

(X) GIRDER NUMBER

MODIFIED BOTTOM CHORD SEE SHEET 121/226

NOTES:

1. FIELD SPLICE 0 IS PROVIDED FOR ATTACHMENT TO THE LAUNCHING NOSE.
2. FOR STIFFENER LOCATIONS AND DETAILS, SEE SHEETS 115/226 AND 116/226.
3. FOR CROSSFRAME DETAILS, SEE SHEETS 120/226 AND 121/226.
4. FOR SPLICE DETAILS, SEE SHEETS 124/226 AND 125/226.
5. FOR TEMPORARY LATERAL BRACING CONNECTION, SEE SHEET 201/226.
   FOR PERMANENT LATERAL BRACING CONNECTION, SEE SHEET 122/226.

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

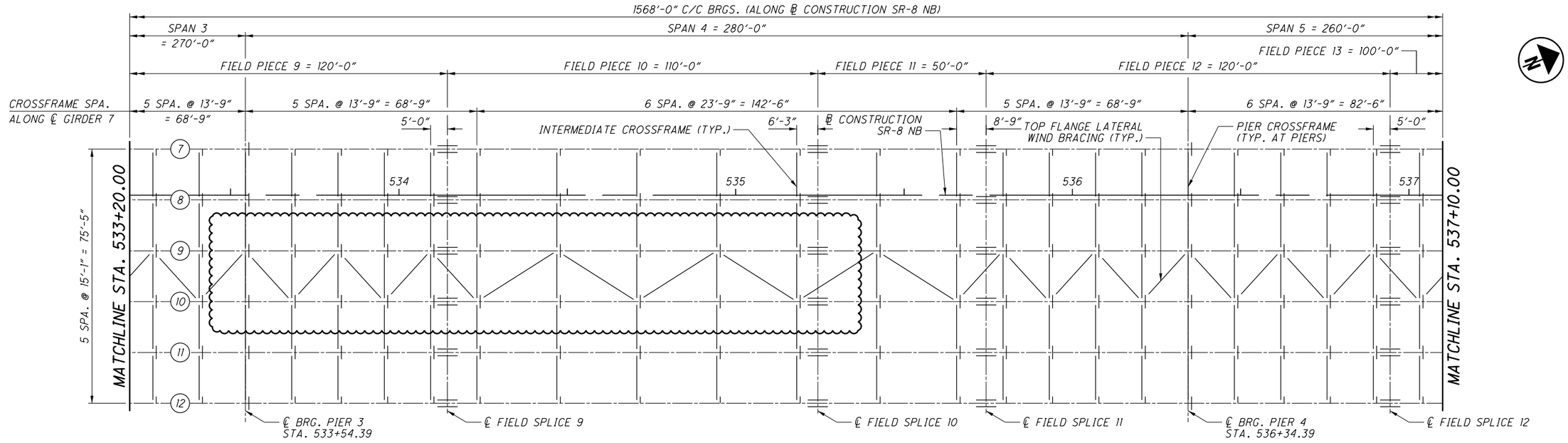
DESIGNED	DRAWN	REVIEWED	DATE
ABD	ABD	GLG	20-APR
CHECKED	REVISED	STRUCTURE FILE NUMBER	
ELP		7700370/7700371	

NORTHBOUND BRIDGE FRAMING PLAN (1 OF 2)
BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS
(CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

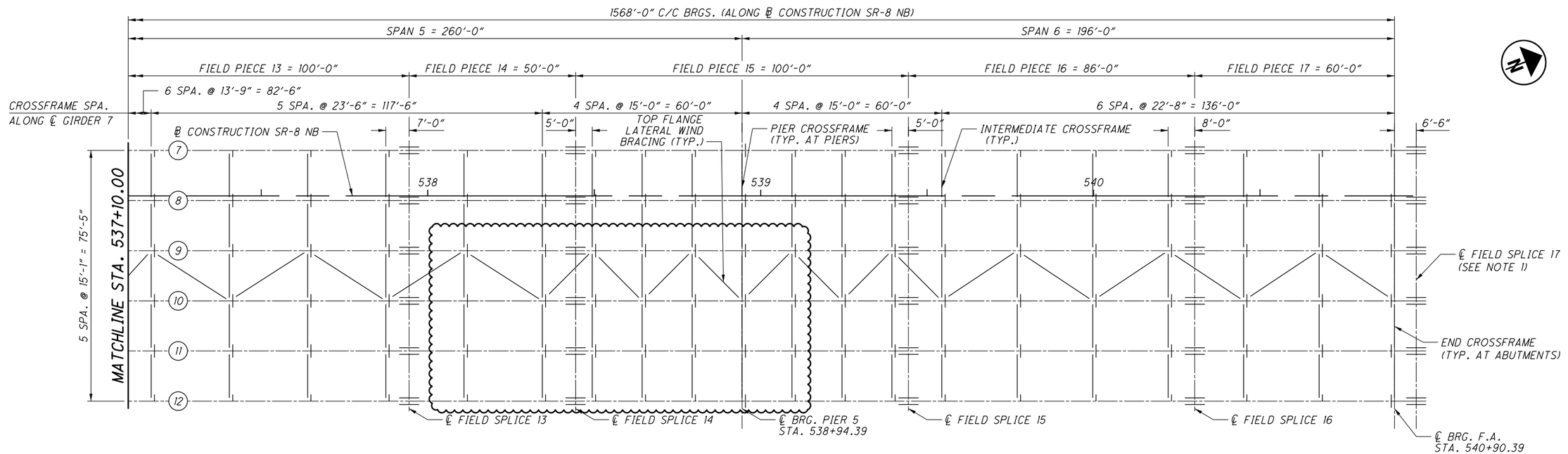
113/226

611
801



NORTHBOUND FRAMING PLAN

PART 3 OF 4



NORTHBOUND FRAMING PLAN

PART 4 OF 4

LEGEND:

(X) GIRDER NUMBER

NOTES:

1. FIELD SPLICE 17 IS PROVIDED FOR ATTACHMENT TO THE LAUNCHING TAIL.
2. FOR ADDITIONAL NOTES, SEE SHEET 113/226.

NORTHBOUND BRIDGE FRAMING PLAN (2 OF 2)
BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS
(CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

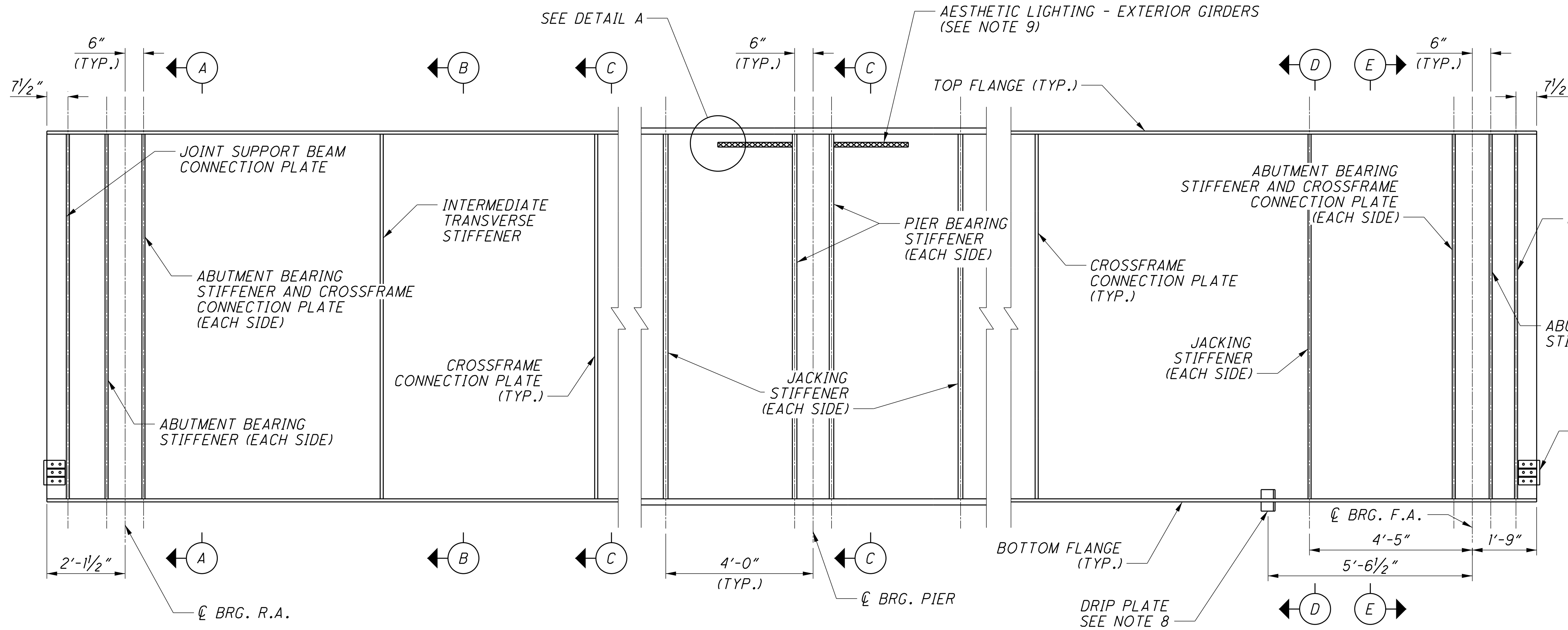
DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DESIGNED	DRAWN	REVIEWED	DATE
ABD	ABD	GLG	20-APR
CHECKED	REVISED	STRUCTURE FILE NUMBER	
ELP		7700370/7700371	

SUM-8-1.75
PID No. 91710

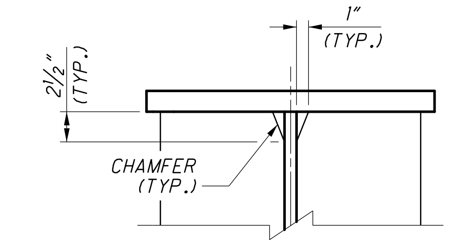
114/226

612
801

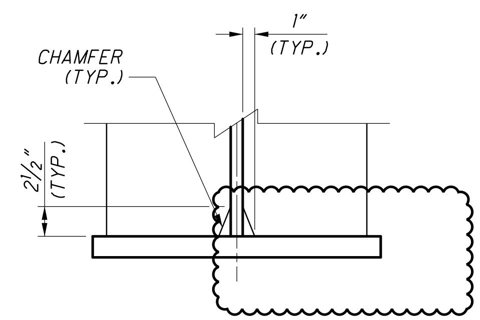


PARTIAL GIRDER ELEVATION

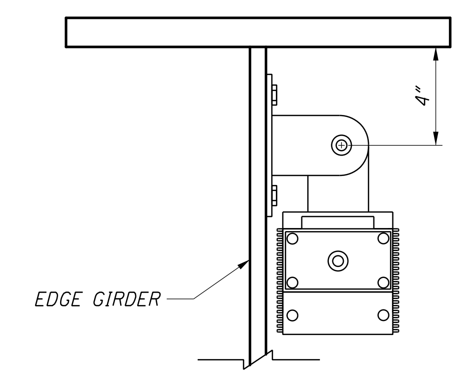
(HAND HOLD BAR NOT SHOWN)



TYPICAL TOP FLANGE CLIP DETAIL

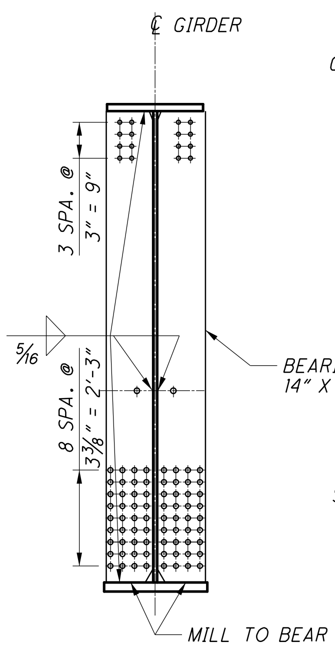


TYPICAL BOTTOM FLANGE CLIP DETAIL



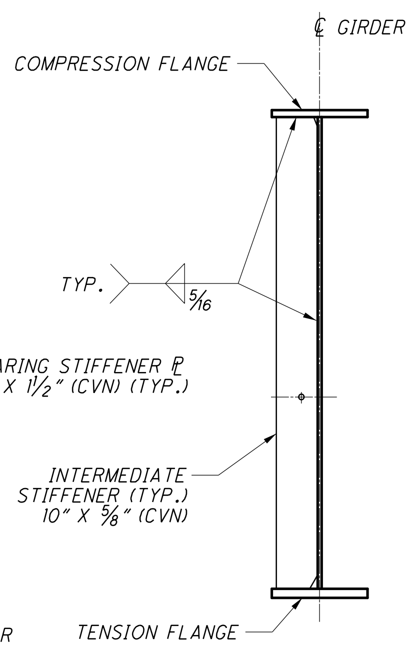
DETAIL A

(EXAGGERATED SCALE FOR CLARITY)



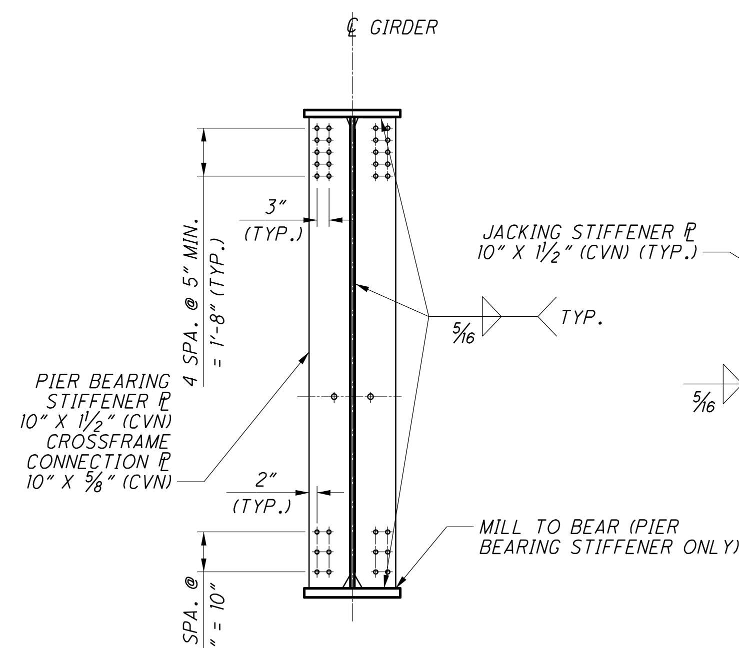
SECTION A-A

REAR ABUTMENT BEARING STIFFENER



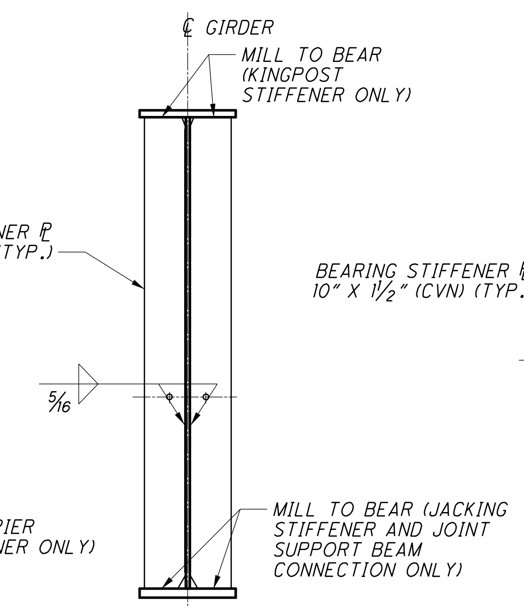
SECTION B-B

INTERMEDIATE TRANSVERSE STIFFENER (SEE FRAMING PLAN FOR STIFFENER PLATE ORIENTATION)



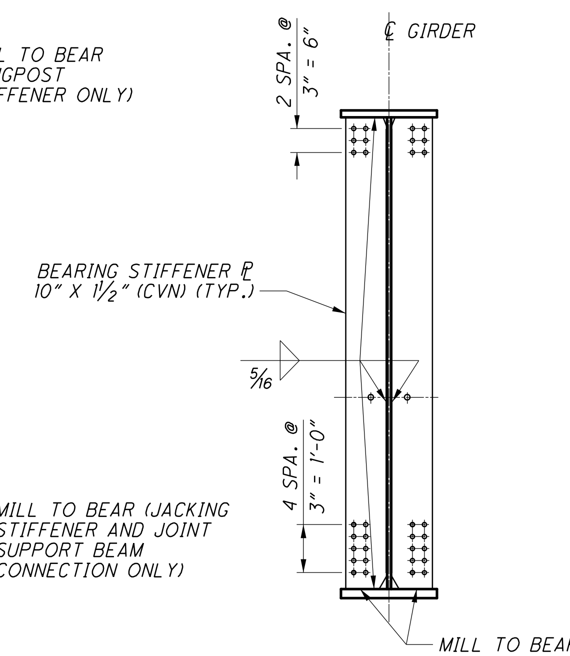
SECTION C-C

CROSSFRAME CONNECTION PLATE (PIER BEARING STIFFENER SIMILAR AS NOTED)



SECTION D-D

JACKING STIFFENER AND KINGPOST STIFFENER (JOINT SUPPORT BEAM CONNECTION PLATE SIMILAR)



SECTION E-E

FORWARD ABUTMENT BEARING STIFFENER

NOTES:

1. FOR SOUTHBOUND FRAMING PLAN, SEE SHEETS 108/226 AND 109/226.
2. FOR NORTHBOUND FRAMING PLAN, SEE SHEETS 113/226 AND 114/226.
3. FOR SOUTHBOUND GIRDER ELEVATION, SEE SHEETS 110/226 AND 111/226.
4. FOR NORTHBOUND GIRDER ELEVATION, SEE SHEETS 115/226 AND 116/226.
5. FOR CROSSFRAME DETAILS, SEE SHEETS 120/226 AND 121/226.
6. BEARING STIFFENERS AND JACKING STIFFENERS SHALL BE INSTALLED ON BOTH SIDES OF THE GIRDER WEB FOR BOTH INTERIOR AND EXTERIOR GIRDERS.
7. CROSSFRAME CONNECTION PLATES SHALL BE INSTALLED ON BOTH SIDES OF THE GIRDER WEB FOR INTERIOR GIRDERS, AND ONLY ON THE INSIDE OF THE GIRDER WEB FOR THE EXTERIOR GIRDERS.
8. FOR DRIP PLATE DETAILS, SEE SHEET 119/226.
9. FOR ADDITIONAL AESTHETIC EXTERIOR GIRDER LIGHTING INFORMATION, SEE SHEET LT10/LT14.

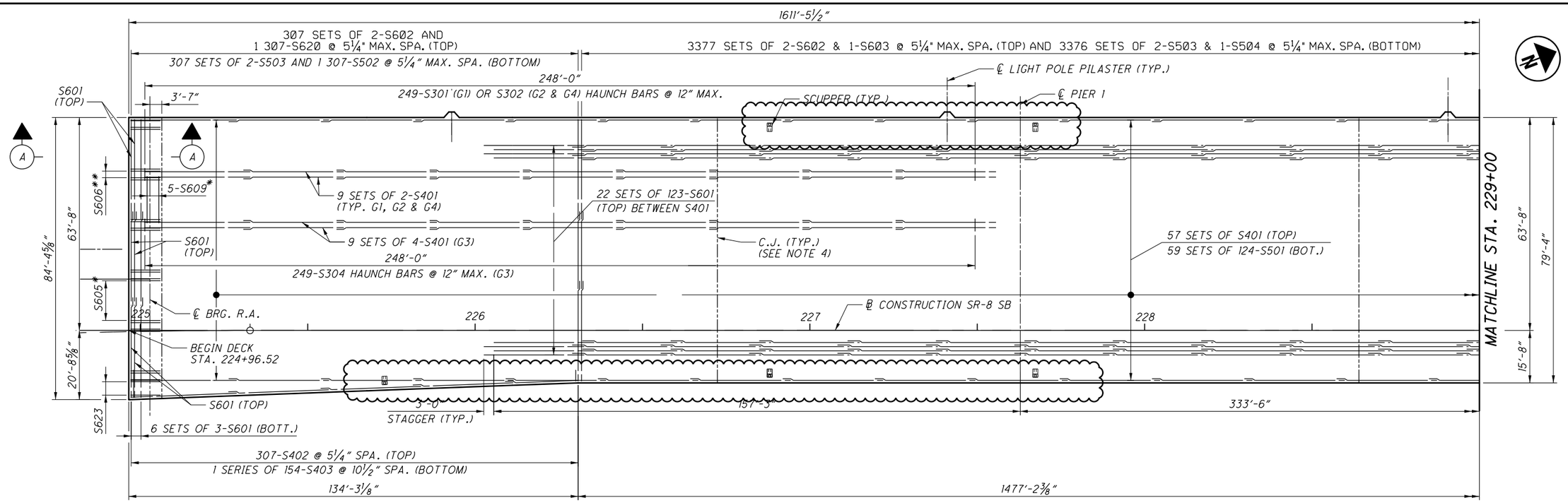
TYPICAL STEEL DETAILS (1 OF 8)

BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS (CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DESIGNED	DRAWN	REVIEWED	DATE
ABD	KRM	GLG	20-APR
CHECKED	REVISED	STRUCTURE FILE NUMBER	
ELP		7700370/7700371	

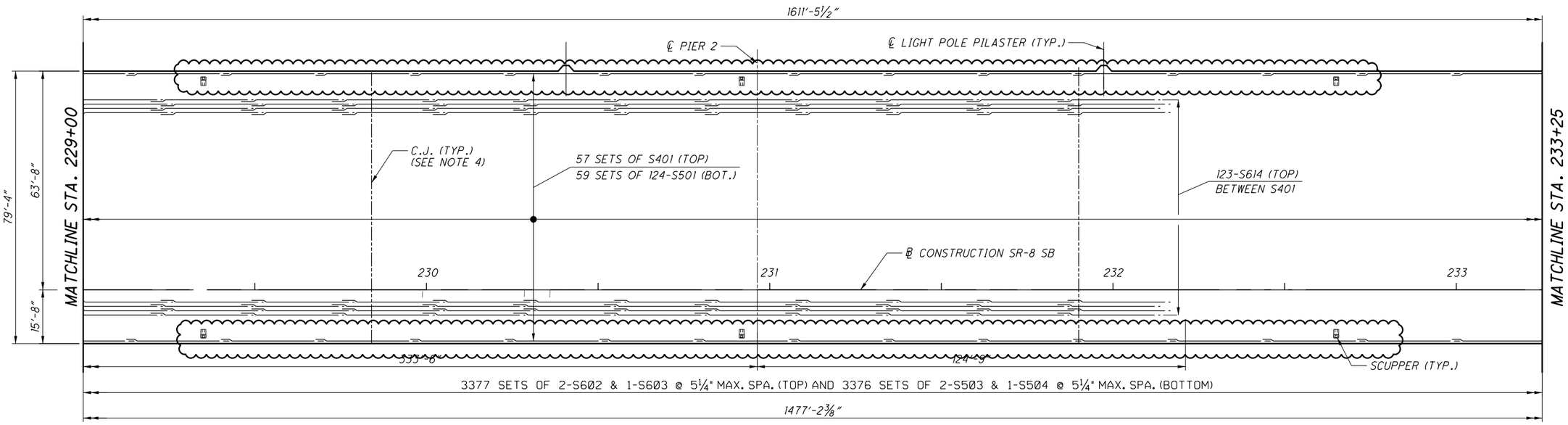


* TYP. BETWEEN GIRDERS

** TYP. @ GIRDERS

PARTIAL SOUTHBOUND DECK REINFORCING PLAN

PART 1 OF 4



PARTIAL SOUTHBOUND DECK REINFORCING PLAN

PART 2 OF 4

NOTES:

1. ALL DIMENSIONS TAKEN ALONG ℄ CONSTRUCTION SR-8 SB.
2. FOR TRANSVERSE SECTION AND NOTES, SEE SHEETS 353/226 AND 147/226.
3. FOR TAPERED DECK REINFORCING, SEE DETAILS ON SHEET 150/226.
4. FOR DECK POUR SEQUENCE, SEE SHEET 156/226.
5. LIGHT POLE PILASTER REINFORCING NOT SHOWN. FOR DETAILS, SEE SHEET 155/226.
6. FOR SECTION A-A AND END-OF-DECK REINFORCING, SEE SHEET 153/226.
7. MIN. LAP LENGTHS:
   #4 BAR = 1'-11"
   #5 BAR = 3'-0"
   #6 BAR = 3'-6"

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

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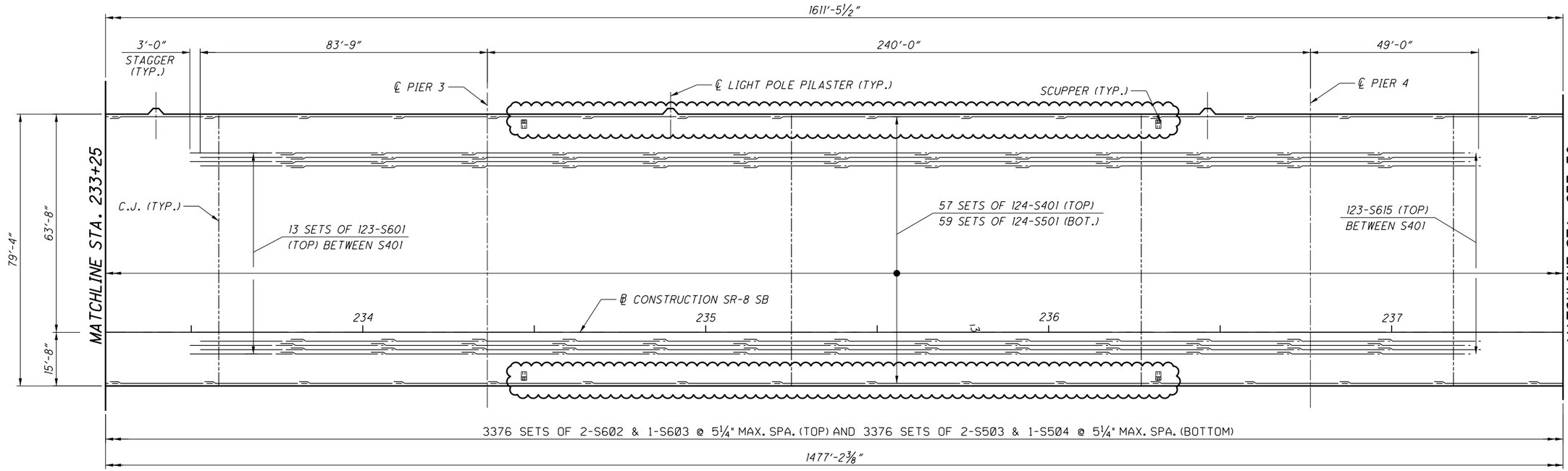
TVB	TVB	GLG	20-APR
CHECKED	REVISED	STRUCTURE FILE NUMBER	
ELP		7700370/7700371	

SOUTHBOUND BRIDGE DECK PLAN (1 OF 2)
BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS
(CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

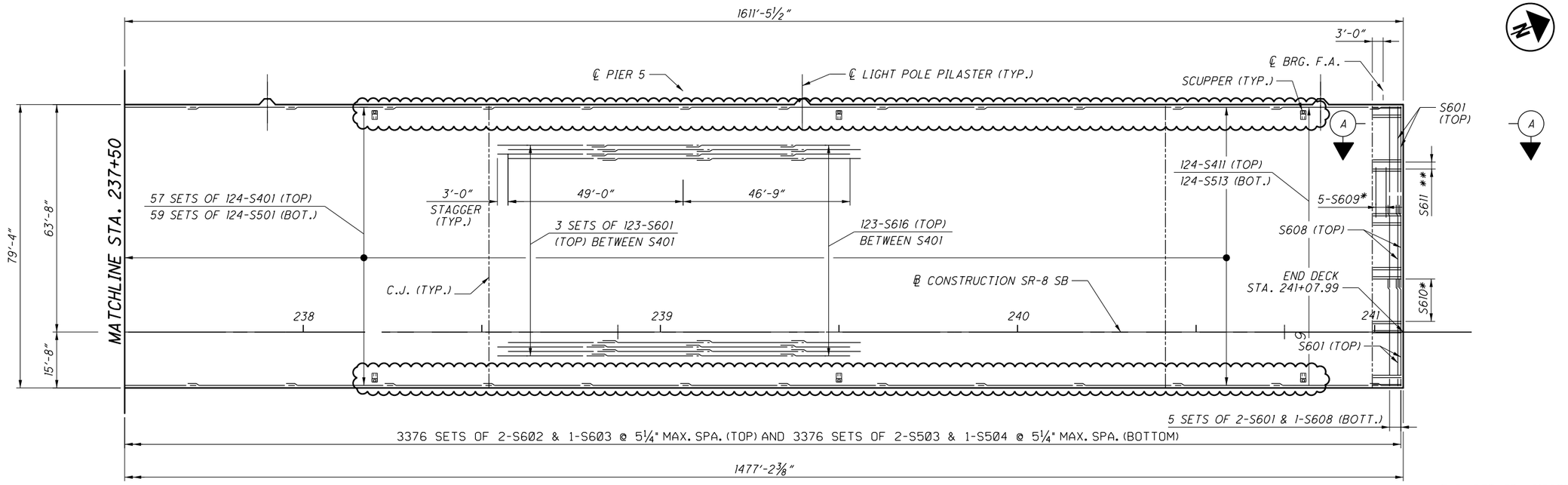
148/226

646/801



PARTIAL SOUTHBOUND DECK REINFORCING PLAN

PART 3 OF 4



PARTIAL SOUTHBOUND DECK REINFORCING PLAN

PART 4 OF 4

NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEET 148/226.

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

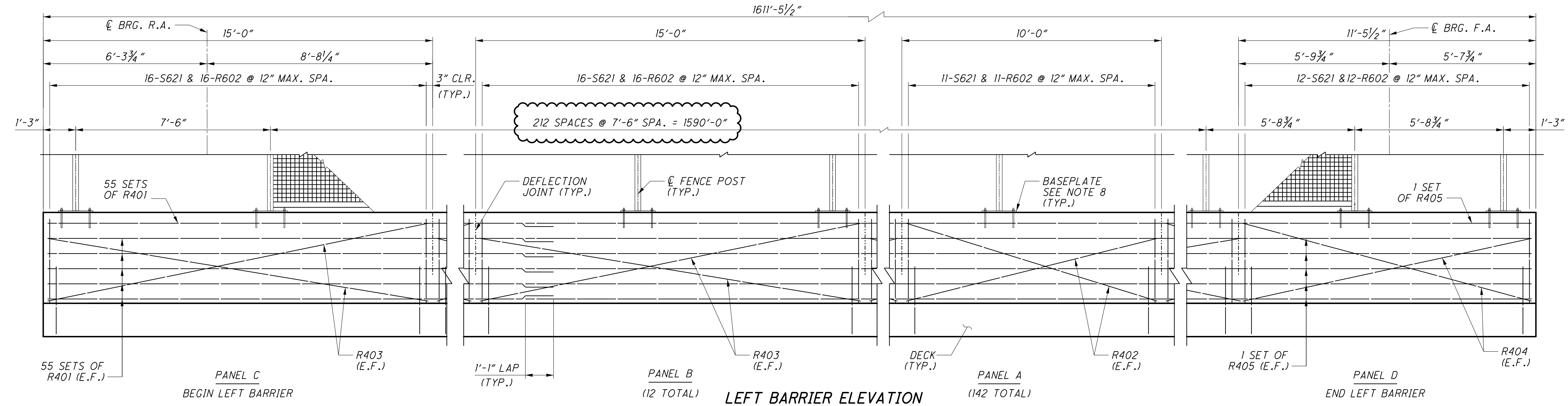
DESIGNED	DRAWN	REVIEWED	DATE
TVB	TVB	GLG	20-APR
CHECKED	REVISED	STRUCTURE FILE NUMBER	
ELP		77003707700371	

SOUTHBOUND BRIDGE DECK PLAN (2 OF 2)
BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS
(CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

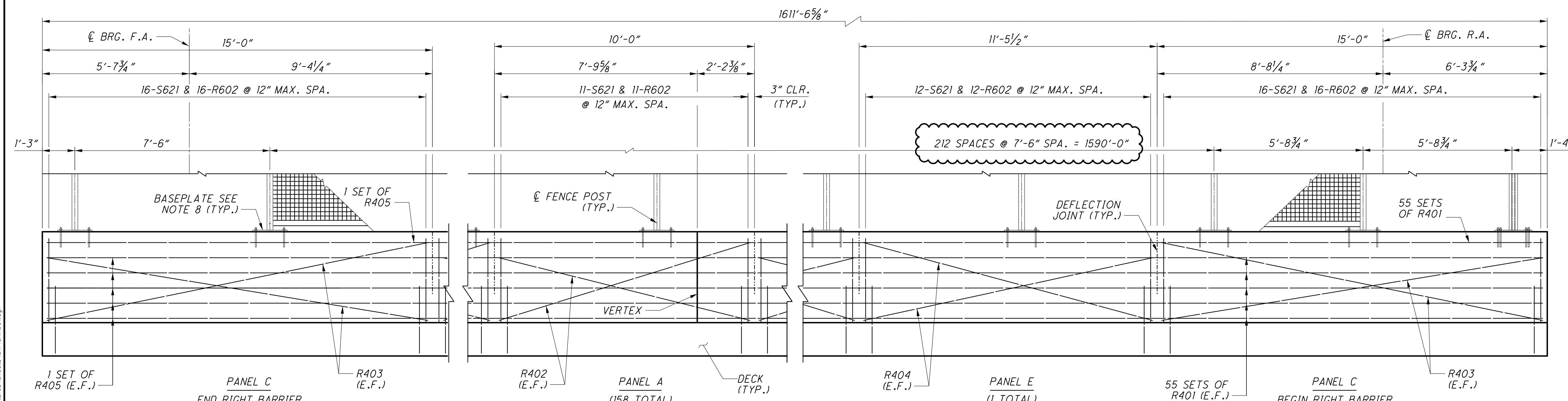
149/226

647
801



LEFT BARRIER ELEVATION

DIMENSIONS ALONG INSIDE FACE OF BARRIER
EXPANSION PLATES NOT SHOWN
UPSTATION



RIGHT BARRIER ELEVATION

DIMENSIONS ALONG INSIDE FACE OF BARRIER
EXPANSION PLATES NOT SHOWN
UPSTATION

NOTES:

1. FOR ADDITIONAL NOTES AND BARRIER DETAILS, SEE STANDARD BRIDGE DRAWING SBR-1-20.
2. FOR BARRIER SECTION AND DEFLECTION JOINT DETAIL, SEE SHEET 175/226.
3. FOR BARRIER PLAN AND CRACK CONTROL JOINT SPACING, SEE SHEETS 177/226 AND 178/226.
4. FOR BARRIER ON APPROACH SLAB AND ABUTMENT, SEE SHEETS 185/226 THRU 187/226.
5. FOR EXPANSION JOINT DETAILS, SEE SHEETS 183/226 AND 184/226.
6. FOR AESTHETIC BARRIER DETAILS, SEE SHEETS 469/226 THRU 471/226.
7. FOR AESTHETIC FENCE DETAILS SEE SHEETS 181/226 AND 182/226.
8. FOR FENCE ANCHOR PLATE DETAILS SEE SHEET 182/226.

MINIMUM LAP LENGTHS:

#4 BARS = 1'-1"

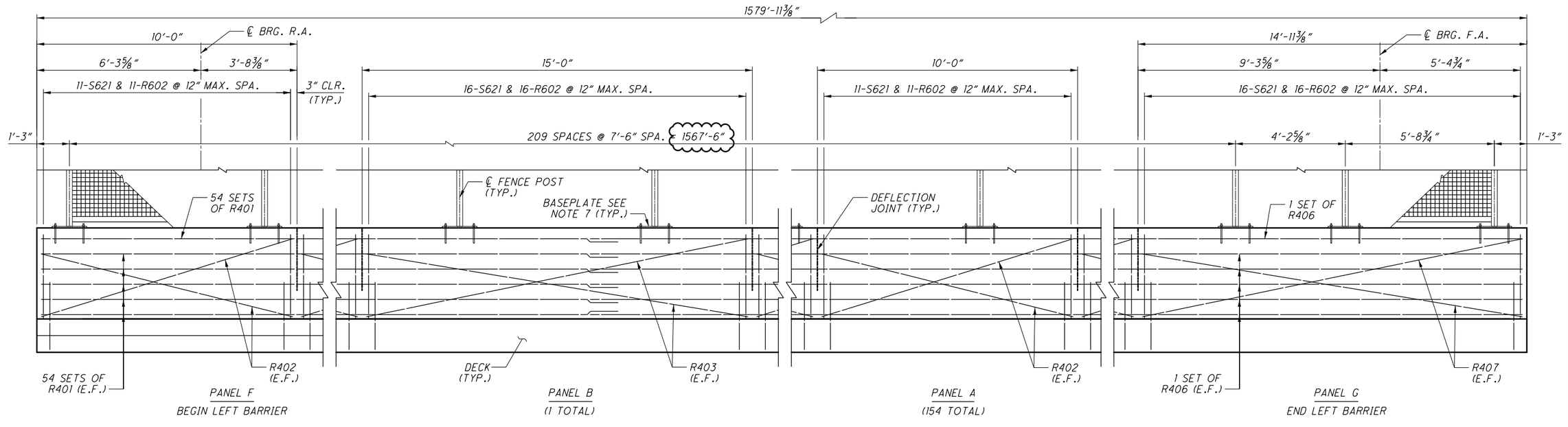
DESIGN AGENCY: ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229

DESIGNED TVB | CHECKED ABD | DRAWN TVB | REVISED | REVIEWED GLG | DATE 20-APR | STRUCTURE FILE NUMBER 7700370/7700371

SOUTHBOUND BRIDGE BARRIER DETAILS

BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS (CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

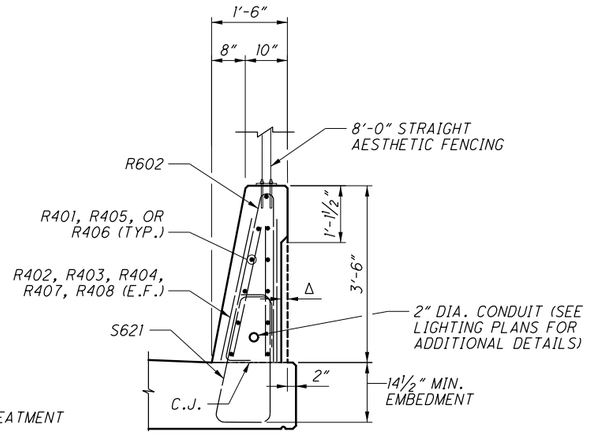
SUM-8-1.75
PID No. 91710



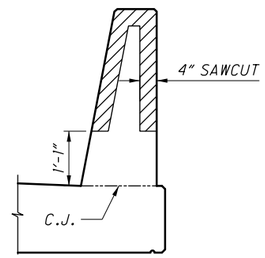
LEFT BARRIER ELEVATION

DIMENSIONS ALONG INSIDE FACE OF BARRIER
EXPANSION PLATES NOT SHOWN

UPSTATION →



BARRIER SECTION



DEFLECTION JOINT DETAIL

MINIMUM LAP LENGTHS:

#4 BARS = 1'-1"

NOTES:

1. FOR ADDITIONAL NOTES AND BARRIER DETAILS, SEE STANDARD BRIDGE DRAWING SBR-1-20.
2. FOR BARRIER PLAN AND DEFLECTION JOINT SPACING, SEE SHEETS 179/226 AND 180/226.
3. FOR BARRIER ON APPROACH SLAB AND ABUTMENT, SEE SHEETS 185/226 AND 187/226.
4. FOR EXPANSION JOINT DETAILS, SEE SHEETS 183/226 AND 184/226.
5. FOR AESTHETIC BARRIER DETAILS, SEE SHEETS 469/801 THRU 471/801.
6. FOR AESTHETIC FENCE DETAILS SEE SHEETS 181/226 AND 182/226.
7. FOR FENCE ANCHOR PLATE DETAILS SEE SHEET 182/226.

DESIGN AGENCY
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2221 Schrock Road
Columbus, Ohio 43229

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NORTHBOUND BRIDGE BARRIER DETAILS (1 OF 2)

BRIDGE NO. SUM-8-0199L/R - OVER RAILROADS
(CSXT, W&LE, AND METRO RTA), LITTLE CUYAHOGA RIVER, AND EAST NORTH STREET

SUM-8-1.75
PID No. 91710

175/226

673
801