

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC ON SR 48 IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A SINGLE WEEKEND BETWEEN 6 PM FRIDAY TO 5 AM MONDAY WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 12 IN ORDER TO CONSTRUCT THE CULVERT REPLACEMENT. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$20.00 PER MINUTE FOR EACH MINUTE SR 48 REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

A MINIMUM OF ONE LANE OF TRAFFIC ON NUTT RD IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 5 CONSECUTIVE CALENDAR DAYS, WHEN NUTT RD TRAFFIC MAY BE DETOURED, USING STATE ROUTE 48, AS SHOWN ON SHEET 12A. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$3,000.00 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

A MINIMUM OF ONE LANE OF TRAFFIC ON HIBBERD DR IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 5 CONSECUTIVE CALENDAR DAYS, WHEN HIBBERD DR TRAFFIC MAY BE DETOURED, USING STATE ROUTE 48, AS SHOWN ON SHEET 12A. A DISINCENTIVE SHALL BE IN THE AMOUNT OF \$500.00 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

THE DETOURS OF NUTT ROAD AND HIBBERD DRIVE SHALL NOT BE PERMITTED DURING CENTERVILLE CITY SCHOOL'S SCHOOL YEAR (TYPICALLY MID AUGUST THROUGH END OF MAY)

ANTICIPATING SIGNAL SUPPORTS WILL NOT BE RECEIVED BY THE INTERIM COMPLETION DATE, COMPLETE ALL WORK (PAVEMENT, PVT. MARKINGS, SIGNING, ETC.) AND PLACE TRAFFIC IN THE PERMANENT CONFIGURATION BY THE INTERIM COMPLETION DATE OF 09/30/23.

EXCEPTIONS TO THIS REQUIREMENT INCLUDE SIGNAL RELATED ITEMS, SIDEWALK IN THE NORTHWEST QUADRANT AND SEEDING. A DISINCENTIVE SHALL BE ASSESSED PER CMS 108.07 FOR EACH CALENDAR DAY BEYOND THE COMPLETION DATE WORK REMAINS INCOMPLETE.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

Table with 2 columns: Event Name and Date/Description. Includes New Year's, Election Day, Total Solar Eclipse, Thanksgiving, Memorial Day, Christmas, Fourth of July, Mead Cup Soccer Tournament, and Labor Day.

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY TIME ALL LANES OR SPECIAL EVENT MUST BE OPEN TO TRAFFIC

Table with 2 columns: Day and Time Range. Lists days from Sunday to Thursday with corresponding time ranges for lane closures.

FRIDAY 12:00N THURSDAY THROUGH 6:00 AM MONDAY SATURDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRAIN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION. SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

DETOUR RESTRICTIONS THE DETOUR OF S.R. 48 AND DETOURS OF NUTT ROAD AND HIBBERD DRIVE SHALL NOT BE PERMITTED DURING THE FOLLOWING:

--MEMORIAL DAY WEEKEND FRIDAY, MAY 26 - MONDAY, MAY 29, 2023 FRIDAY, MAY 24 - MONDAY, MAY 27, 2024

--FOURTH OF JULY (CENTERVILLE'S AMERICANA FESTIVAL) MONDAY, JULY 3 - TUESDAY, JULY 4, 2023 WEDNESDAY, JULY 3 - THURSDAY, JULY 4, 2024

--WEEKEND OF THE CUSA MEAD CUP YOUTH SOCCER TOURNAMENT TYPICALLY HELD LABOR DAY WEEKEND. FRIDAY, SEPTEMBER 1 - MONDAY, SEPTEMBER 4, 2023 FRIDAY, AUGUST 30 - MONDAY, SEPTEMBER 2, 2024

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

SR 48 WILL BE CLOSED MMM-DD FOR # DAYS INFO: 937-497-6959

W20-H13-60

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE

Table with 3 columns: ITEM, DURATION OF CLOSURE, SIGN DISPLAYED TO PUBLIC. Details sign requirements for road closures of various durations.

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

- ITEM 615, ROADS FOR MAINTAINING TRAFFIC LUMP SUM
ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A 470 SQ. YD.
ITEM 410, TRAFFIC COMPACTED SURFACE TYPE A OR B 5 CU. YD.
ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE C 5 CU. YD.
ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 5 CU. YD.
ITEM 616, WATER 10 M. GAL.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

HIBBERD DR. JUST EAST OF ARN DR. EDINBURGH VILLAGE DR. 215' WEST OF SR 48 FACING WEST EDINBURGH VILLAGE DR. 80' WEST OF SR 48 FACING EAST SR 48 JUST NORTH OF NUTT RD. SR 48 JUST SOUTH OF MANDEL DR. NUTT RD. JUST WEST OF GRASSY CREEK WAY

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, OF THE TYPE AND LOCATION AS FOLLOWS:

ON NUTT RD., HIBBERD DR., AND MANDEL DR.: W20-1-48 "ROAD WORK AHEAD" 500' IN ADVANCE OF SR 48 G20-2-48 "END ROAD WORK" 500' AFTER SR 48

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 10 M. GAL.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

- 614 WORK ZONE EDGE LINE, 6", CLASS I 2.00 MILE
614 WORK ZONE CENTER LINE, CLASS I 1.00 MILE
614 WORK ZONE STOP LINE, CLASS I 100 FEET
614 WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT 1.01 MILE
614 WORK ZONE CENTER LINE, CLASS III, 642 PAINT 0.74 MILE
614 WORK ZONE STOP LINE, CLASS III, 642 PAINT 150 FEET
614 DETOUR SIGNING LUMP SUM

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE IS SHOWN ON SHEET 12 DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

- ITEM 301, ASPHALT CONCRETE BASE, PG 64-22, (449) 60 CU. YD.
ITEM 304, AGGREGATE BASE 60 CU. YD.
ITEM 441, ASPHALT CONCRETE SURFACE COURSE, (449) TYPE 1, PG 64-22 30 CU. YD.
ITEM 407, TACK COAT 60 GAL.
ITEM 617, COMPACTED AGGREGATE, TYPE A 150 CU. YD.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 12 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

DESIGN AGENCY



Table with 2 columns: Role and Name/ID. Includes Designer (LAS), Reviewer (MAG 09/30/22), Project ID (107161), and Sheet Total (7 | 103).

ITEM 614, BUSINESS ENTRANCE (M4-H15) SIGN, AS PER PLAN

THE BUSINESS ENTRANCE (M4-H15) SIGN SHOULD BE PROVIDED AT EACH TEMPORARILY RELOCATED COMMERCIAL DRIVEWAY FOR WHICH THE RELOCATION IS NOT OBVIOUS TO THE MOTORIST. THE PROJECT ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS, OR IS NOT, OBVIOUS AND WHETHER OR NOT A SIGN SHOULD BE PROVIDED. ONLY ONE SIGN PER BUSINESS SHALL BE PERMITTED. THE SIGN SHALL BE 36 INCH X 48 INCH IN SIZE WITH TYPE G OR TYPE H ORANGE RETROREFLECTIVE SHEETING. THE SIGN LEGEND SHALL BE PLACED ON BOTH SIDES OF THE SIGN (BACK TO BACK). THE SIGN SHALL HAVE THE STANDARD M4-H15 LEGEND WITH THE WORD "BUSINESS" ON THE TOP LINE, EXCEPT UNDER UNUSUAL CIRCUMSTANCES WHERE IT MAY NOT BE INTUITIVE THAT A DRIVEWAY SERVES A SPECIFIC BUSINESS. IN SUCH UNUSUAL CASES, THE ACTUAL BUSINESS NAME MAY BE SUBSTITUTED FOR THE WORD "BUSINESS".

THE SIGN SHALL BE MOUNTED ON TWO #3 POSTS OR ON TEMPORARY POSTS IN ACCORDANCE WITH SCD MT-105.10 AND IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGN SHALL BE CLEARLY VISIBLE AND SHALL CLEARLY IDENTIFY THE LOCATION OF THE DRIVEWAY. THE SIGN SHOULD BE POSITIONED AT 90 DEGREES TO THE DIRECTION(S) OF TRAFFIC. THE SIGN MAY NEED TO BE MOVED FOR EACH PHASE OF THE MAINTENANCE OF TRAFFIC OPERATIONS.

PAYMENT FOR ALL COSTS ASSOCIATED WITH MANUFACTURING, MOUNTING, RELOCATING, AND REMOVING THE SIGN, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT PRICE PER EACH FOR ITEM 614-BUSINESS ENTRANCE SIGN.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM.

ITEM 614, BUSINESS ENTRANCE SIGN 4 EACH

ITEM 614, MAINTENANCE OF TRAFFIC, MISC: TEMPORARY TRAFFIC SIGNAL

ALL NEW LANES SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE FINAL ALIGNMENT WITH ALL SAFETY ITEMS IN PLACE AND TEMPORARY OR PERMANENT SIGNALS COMPLETE BY THE INTERIM COMPLETION DATE OF SEPTEMBER 30, 2023. IF FABRICATION AND DELIVERY OF THE PERMANENT PROPOSED SIGNAL POLES IS NOT YET COMPLETED, THE CONTRACTOR SHALL PROVIDE A TEMPORARY SIGNAL PLAN AND INSTALL TEMPORARY SIGNALS. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$5,000/DAY FOR EACH CALENDAR DAY THE ABOVE REQUIREMENTS ARE NOT MET. THE PERMANENT SIGNAL SYSTEM SHALL BE INSTALLED BY THE COMPLETION DATE.

THE FOLLOWING ITEM HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, MAINTENANCE OF TRAFFIC, MISC: TEMPORARY TRAFFIC SIGNAL LUMP SUM

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
- AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC. WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
- THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR
- OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 70 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

| ITEM | DURATION OF CLOSURE | NOTICE DUE TO PERMITS & PIO |
|---|------------------------|--|
| RAMP & ROAD CLOSURES | >= 2 WEEKS | 21 CALENDAR DAYS PRIOR TO CLOSURE |
| | > 12 HOURS & < 2 WEEKS | 14 CALENDAR DAYS PRIOR TO CLOSURE |
| | <= 12 HOURS | 4 CALENDAR DAYS PRIOR TO CLOSURE |
| LANE CLOSURES & RESTRICTIONS | >= 2 WEEKS | 14 CALENDAR DAYS PRIOR TO CLOSURE |
| | < 2 WEEKS | 5 BUSINESS DAYS PRIOR TO CLOSURE |
| START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES | N/A | 14 CALENDAR DAYS PRIOR TO IMPLEMENTATION |

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN

LABOR AND MATERIALS ASSOCIATED WITH THIS ITEM ARE TO COVER POTENTIAL ASPHALT CONCRETE FAILURES DUE TO TRAFFIC LOADING. MOBILIZATION OF THIS WORK SHALL BE AT THE APPROVAL OF THE ENGINEER AND ONLY FOR LOCATIONS OF FAILURE DETERMINED BY THE ENGINEER. THE AREAS SHALL BE ROUGHLY RECTANGULAR IN SHAPE AND SAWED OR MILLED TO A NEAT LINE. THE ENTIRE EXISTING ASPHALT BUILD-UP IS TO BE REMOVED. DUE TO THE REACTIVE NATURE OF THIS WORK, ADDITIONAL MOBILIZATIONS TO PERFORM FULL DEPTH PATCHING ARE POSSIBLE.

THE REPLACEMENT MATERIAL SHALL BE ITEM 301 ASPHALT CONCRETE BASE, (449) PG64-22. PAY ITEM DOES NOT INCLUDE EXCAVATION, AGGREGATE BASE, SUBGRADE COMPACTION, GRANULAR MATERIAL, OR GEOTEXTILE FABRIC. THE ESTIMATE PAVEMENT REPAIR AREAS SHALL BE A MINIMUM OF 4 FEET IN WIDTH.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM:

ITEM 253 - PAVEMENT REPAIR, AS PER PLAN 550 SQ. YDS

DESIGN AGENCY



DESIGNER

LAS

REVIEWER

MAG 09/30/22

PROJECT ID

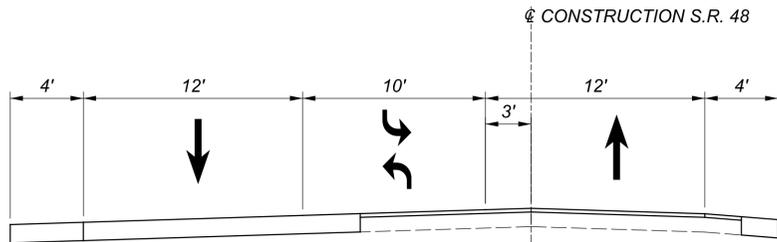
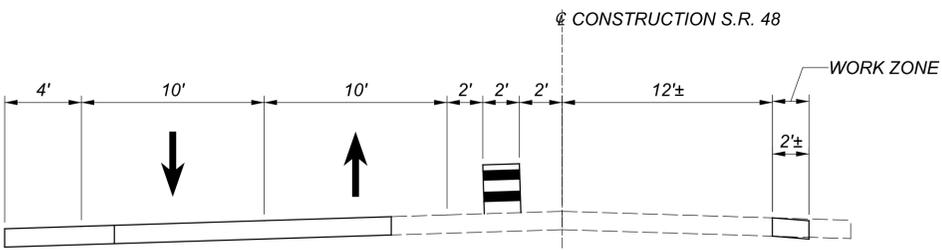
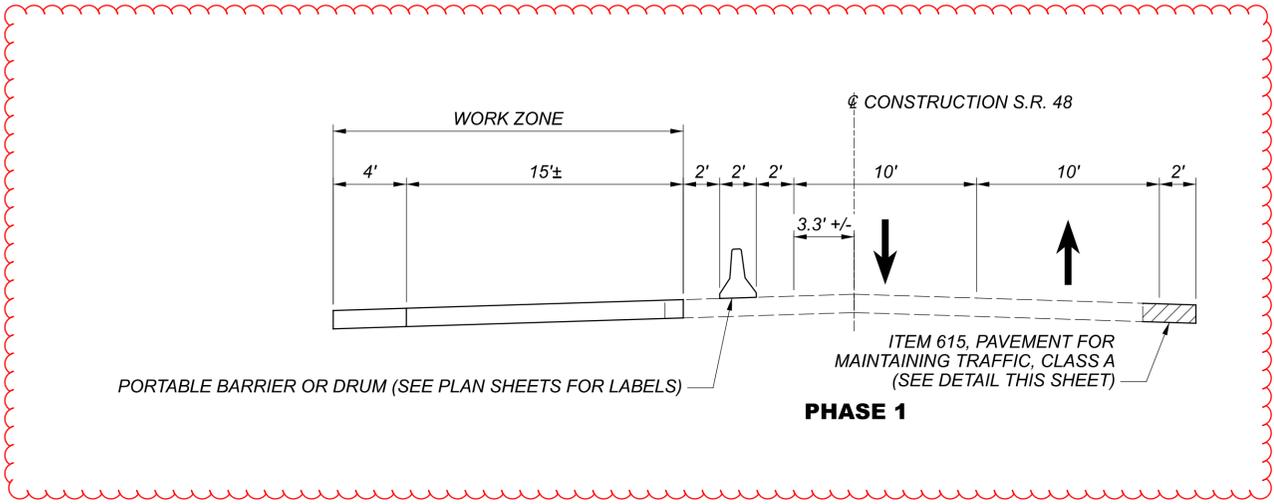
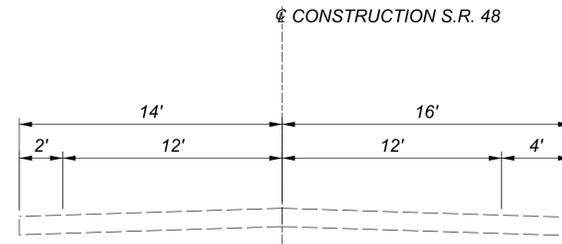
107161

SHEET

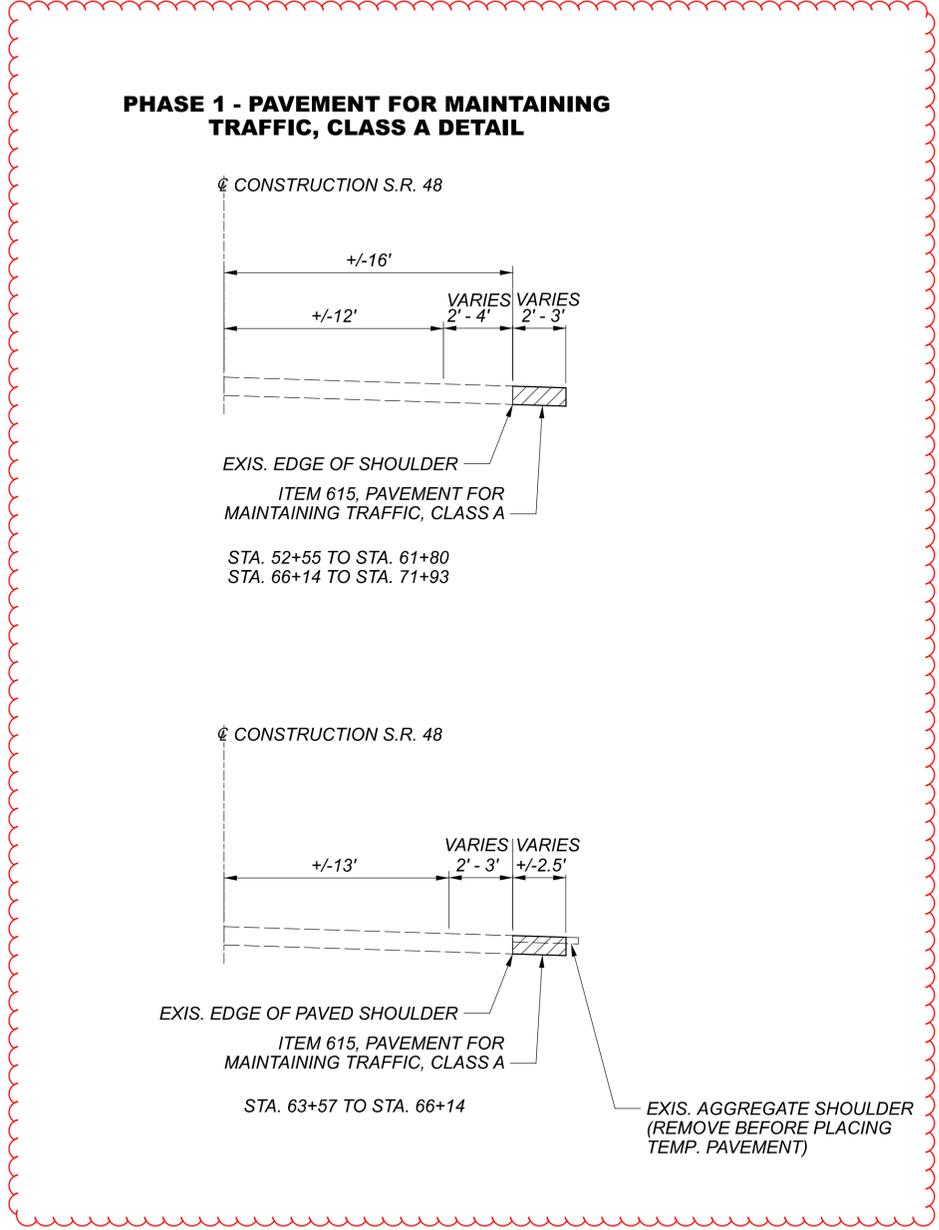
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TOTAL

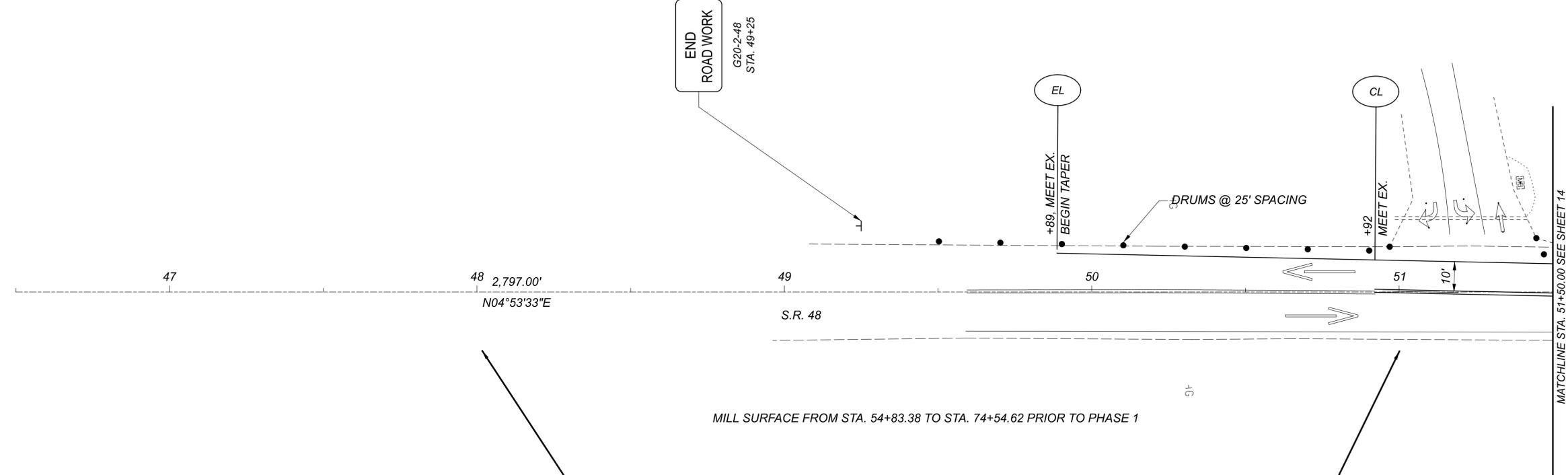
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PHASE 1 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A DETAIL



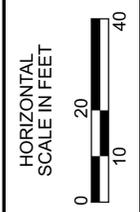
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|---------------|--------------|
| DESIGN AGENCY | |
| | |
| DESIGNER | JRW |
| REVIEWER | MAG 07/17/22 |
| PROJECT ID | 107161 |
| SHEET | TOTAL |
| 11 | 103 |



MILL SURFACE FROM STA. 54+83.38 TO STA. 74+54.62 PRIOR TO PHASE 1

PAVEMENT MARKING LEGEND

- XXX = ITEM 644 REMOVAL OF EX. PVMT. MARKINGS
- [Symbol: Three white rectangles] = ITEM 622, PORTABLE BARRIER, UNANCHORED
- [Symbol: Circle with 'SL'] = ITEM 614, WORKZONE STOP LINE
- [Symbol: Circle with 'CH'] = ITEM 614, WORKZONE CHANNELIZING LINE, 6"
- [Symbol: Solid black circle] = DRUMS
- [Symbol: Circle with 'EL'] = ITEM 614, WORK ZONE EDGE LINE, CLASS 1
- [Symbol: Circle with 'CL'] = ITEM 614, SOLID DOUBLE CENTERLINE, CLASS 1
- [Symbol: Cross-hatched box] = PROP. WORK
- [Symbol: Diagonal hatched box] = PROP. WORK (PHASE 1B)
- [Symbol: Parallel hatched box] = ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A
- [Symbol: Solid grey box] = COMPLETED FULL DEPTH PAVEMENT CONSTRUCTION IN PREVIOUS MOT PHASE



**MAINTENANCE OF TRAFFIC PLAN
PHASE 1**

DESIGN AGENCY

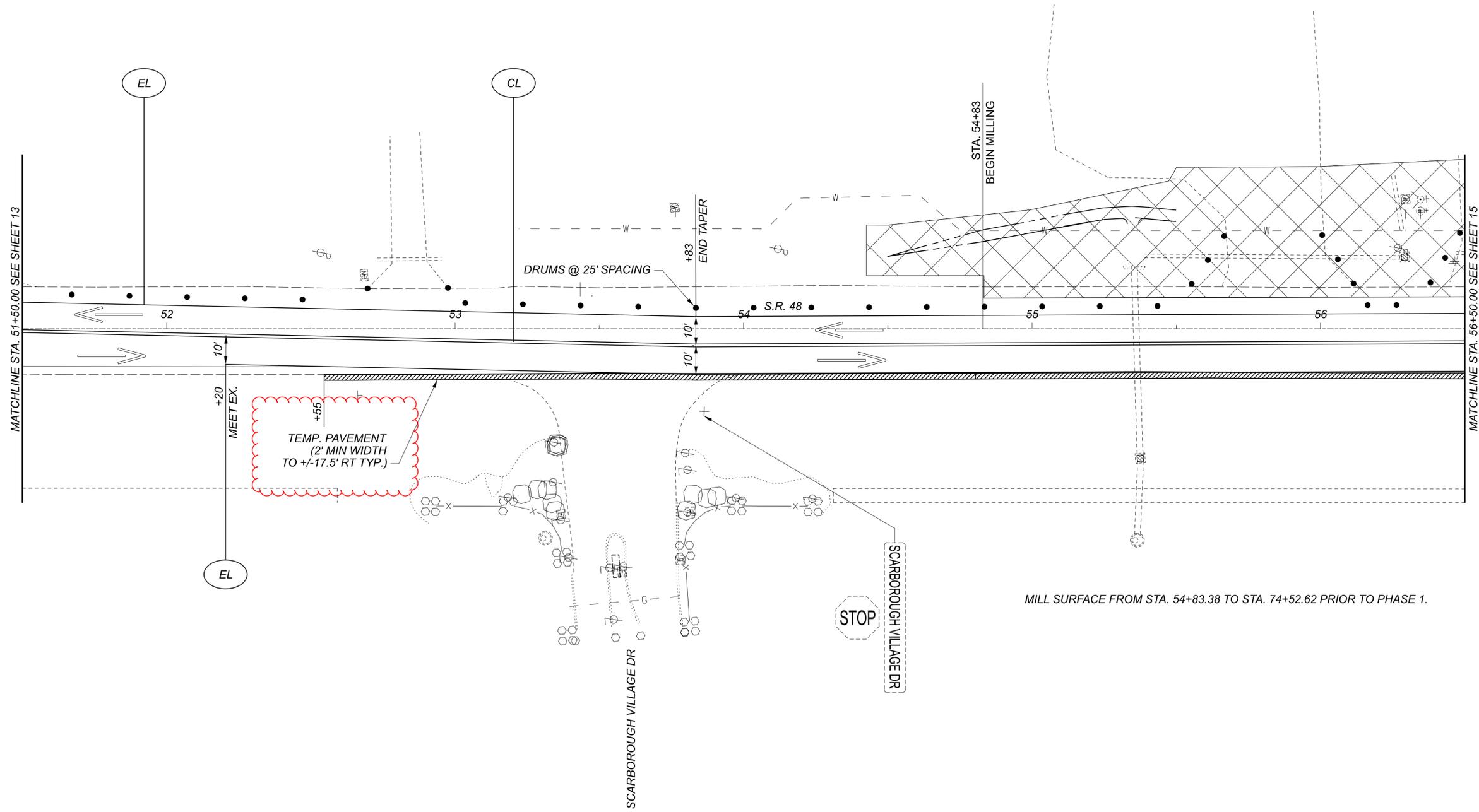


DESIGNER
LAS

REVIEWER
MAG 09/30/22

PROJECT ID
107161

SHEET TOTAL
13 | 103



FOR LEGEND SEE SHEET 13

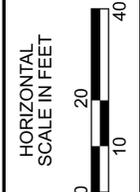


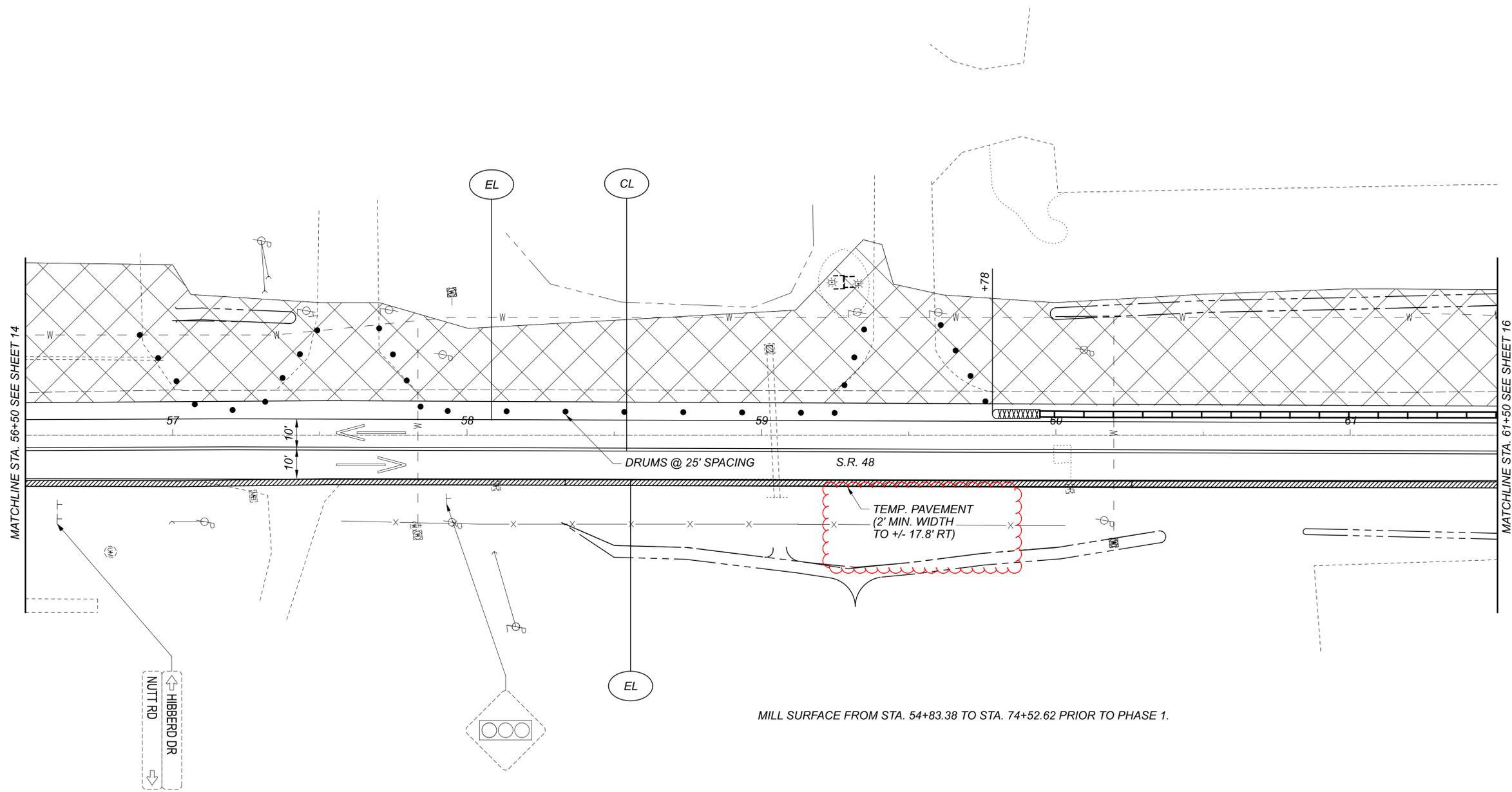
DESIGN AGENCY



| | |
|------------|--------------|
| DESIGNER | LAS |
| REVIEWER | MAG 09/30/22 |
| PROJECT ID | 107161 |
| SHEET | TOTAL |
| 14 | 103 |

MAINTENANCE OF TRAFFIC PLAN
 PHASE 1





MILL SURFACE FROM STA. 54+83.38 TO STA. 74+52.62 PRIOR TO PHASE 1.

FOR LEGEND SEE SHEET 13

MAINTENANCE OF TRAFFIC PLAN
 PHASE 1

DESIGN AGENCY



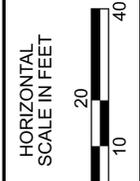
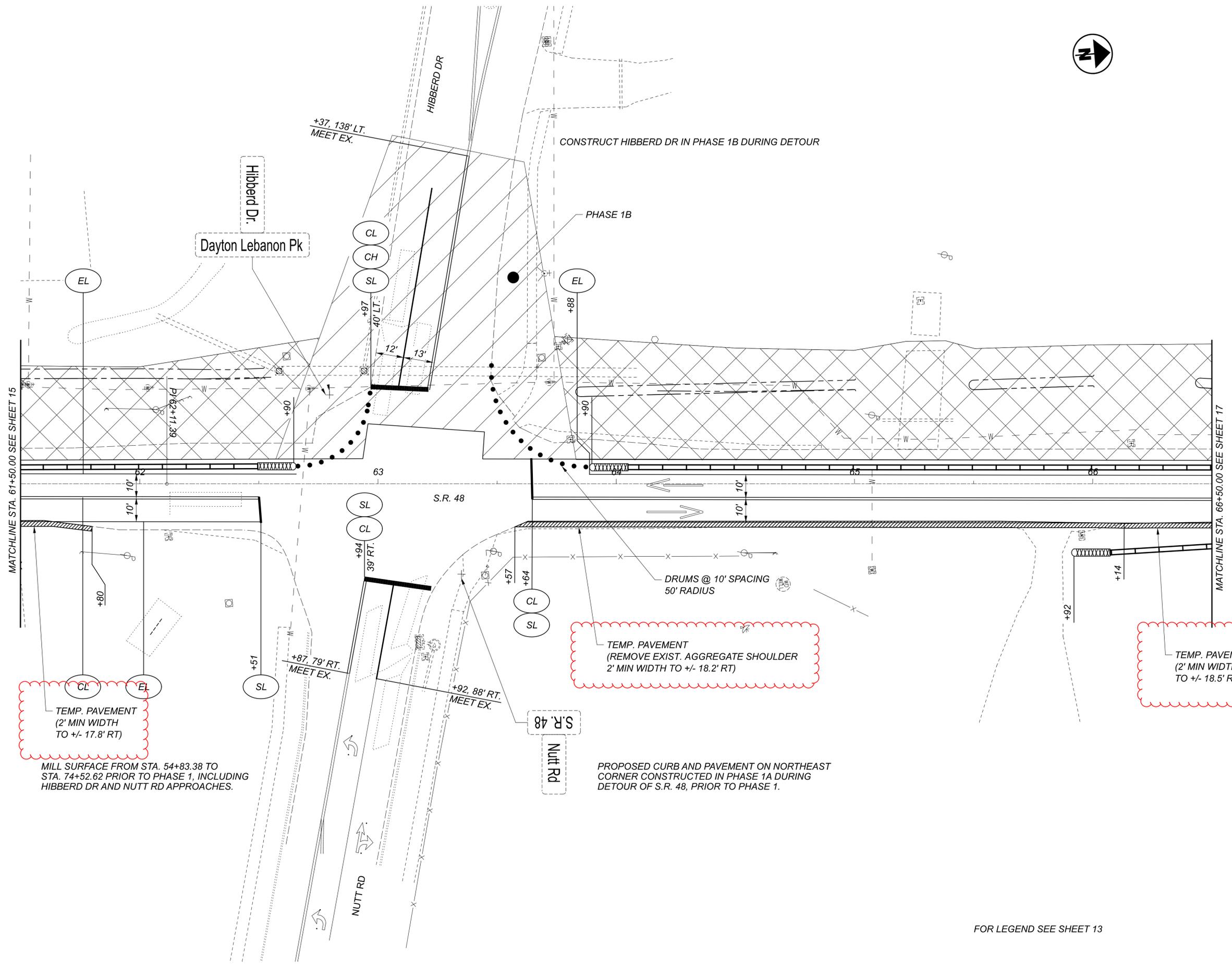
DESIGNER
 LAS

REVIEWER
 MAG 09/30/22

PROJECT ID
 107161

| | |
|-------|-------|
| SHEET | TOTAL |
| 15 | 103 |





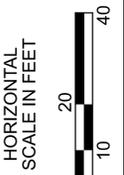
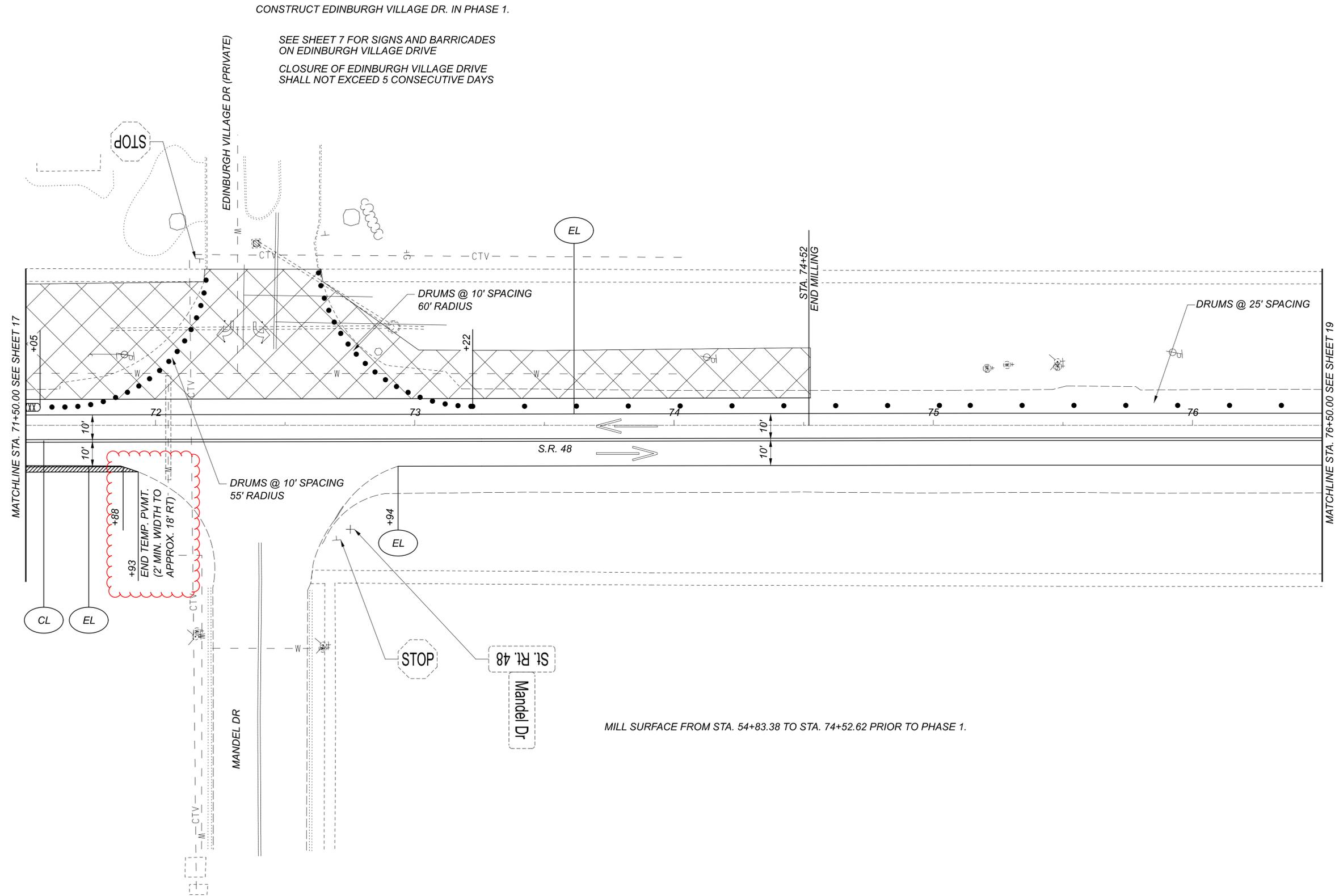
MAINTENANCE OF TRAFFIC PLAN
PHASE 1

DESIGN AGENCY



| | |
|------------|--------|
| DESIGNER | LAS |
| REVIEWER | MAG |
| PROJECT ID | 107161 |
| SHEET | TOTAL |
| 16 | 103 |

FOR LEGEND SEE SHEET 13



MAINTENANCE OF TRAFFIC PLAN
PHASE 1

DESIGN AGENCY



| | |
|------------|--------------|
| DESIGNER | LAS |
| REVIEWER | MAG 09/30/22 |
| PROJECT ID | 107161 |
| SHEET | TOTAL |
| 18 | 103 |

| SHEET NUM. | | | | | | | | | | | | | PART. | ITEM | ITEM | GRAND | UNIT | DESCRIPTION | SEE SHEET NO. |
|--------------|--------|---|---|-------|----|----|----|-------|-----|----|----|-----------|-------|-------|--------|-------|--|-------------|---------------|
| OFFICE CALCS | 5 | 6 | 7 | 30 | 31 | 32 | 33 | 54 | 62 | 72 | 94 | 01/SAF/21 | EXT | TOTAL | | | | | |
| | | | | | | | | | | | | LS | 201 | 11000 | LS | | ROADWAY | | |
| | | | | 2 | | | | | | | | 2 | 202 | 20010 | 2 | EACH | CLEARING AND GRUBBING HEADWALL REMOVED | | |
| 2,472 | | | | | | | | | | | | 2,472 | 202 | 23000 | 2,472 | SY | PAVEMENT REMOVED | | |
| 3,553 | | | | | | | | | | | | 3,553 | 202 | 23500 | 3,553 | SY | WEARING COURSE REMOVED | | |
| | | | | 694 | | | | | | | | 694 | 202 | 30000 | 694 | SF | WALK REMOVED | | |
| | | | | 30 | | | | | | | | 30 | 202 | 32500 | 30 | FT | CURB AND GUTTER REMOVED | | |
| | | | | 298 | | | | | | | | 298 | 202 | 35100 | 298 | FT | PIPE REMOVED, 24" AND UNDER | | |
| | | | | 200 | | | | | | | | 200 | 202 | 35200 | 200 | FT | PIPE REMOVED, OVER 24" | | |
| | | | | 667 | | | | | | | | 667 | 202 | 38000 | 667 | FT | GUARDRAIL REMOVED | | |
| | | 1 | | | | | | | | | | 1 | 202 | 53101 | 1 | EACH | MAILBOX REMOVED, AS PER PLAN | 6 | |
| | | | | 4 | | | | | | | | 4 | 202 | 58100 | 4 | EACH | CATCH BASIN REMOVED | | |
| | | | | 1 | | | | | | | | 1 | 202 | 98100 | 1 | EACH | REMOVAL MISC.: PRIVATE LIGHT POLE | 6 | |
| 53 | | | | | | | | 2,842 | | | | 2,895 | 203 | 10000 | 2,895 | CY | EXCAVATION | | |
| | | | | | | | | 1,099 | | | | 1,099 | 203 | 20000 | 1,099 | CY | EMBANKMENT | | |
| 4,458 | | | | | | | | | | | | 4,458 | 204 | 10000 | 4,458 | SY | SUBGRADE COMPACTION | | |
| | | | | | | | | 1,152 | | | | 1,152 | 204 | 13000 | 1,152 | CY | EXCAVATION OF SUBGRADE | | |
| | | | | | | | | 1,175 | | | | 1,175 | 204 | 30020 | 1,175 | CY | GRANULAR MATERIAL, TYPE C | | |
| | 8 | | 5 | | | | | | | | | 13 | 204 | 45000 | 13 | HOUR | PROOF ROLLING | | |
| | | | | | | | | 2,820 | | | | 2,820 | 204 | 50000 | 2,820 | SY | GEOTEXTILE FABRIC | | |
| | | | | | | | | | 200 | | | 200 | 606 | 15050 | 200 | FT | GUARDRAIL, TYPE MGS | | |
| | | | | | | | | | 100 | | | 100 | 606 | 15100 | 100 | FT | GUARDRAIL, TYPE MGS WITH LONG POSTS | | |
| | | | | | | | | | 38 | | | 38 | 606 | 17360 | 38 | FT | GUARDRAIL, TYPE MGS, LONG-SPAN | | |
| | | | | | | | | | 1 | | | 1 | 606 | 26000 | 1 | EACH | ANCHOR ASSEMBLY, TYPE B | | |
| | | | | | | | | | 3 | | | 3 | 606 | 26550 | 3 | EACH | ANCHOR ASSEMBLY, MGS TYPE T | | |
| | | | | | | | | | 50 | | | 50 | 607 | 35001 | 50 | FT | FENCE REMOVED AND REBUILT, AS PER PLAN | 6 | |
| | | | | 2,968 | | | | | | | | 2,968 | 608 | 10000 | 2,968 | SF | 4" CONCRETE WALK | | |
| | | | | 200 | | | | | | | | 200 | 608 | 13000 | 200 | SF | 6" CONCRETE WALK | | |
| | | | | 260 | | | | | | | | 260 | 608 | 52000 | 260 | SF | CURB RAMP | | |
| | | | | 78 | | | | | | | | 78 | 608 | 53020 | 78 | SF | DETECTABLE WARNING | | |
| | | | | | | | | | | | | 7 | 623 | 38500 | 7 | EACH | MONUMENT ASSEMBLY, TYPE C | | |
| | | | | | | | | | | | | 39 | 623 | 40520 | 39 | EACH | RIGHT-OF-WAY MONUMENT, TYPE B | | |
| | | | | | | | | | | | | | | | | | EROSION CONTROL | | |
| | | | | | | | | 20 | | | | 20 | 601 | 32104 | 20 | CY | ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC | | |
| | | | | | | | | 6 | | | | 6 | 601 | 32204 | 6 | CY | ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC | | |
| | 2 | | | | | | | | | | | 2 | 659 | 00100 | 2 | EACH | SOIL ANALYSIS TEST | | |
| | 1,465 | | | | | | | | | | | 1,550 | 659 | 00300 | 1,550 | CY | TOPSOIL | | |
| | 13,195 | | | | | | | | | | | 13,195 | 659 | 10000 | 13,195 | SY | SEEDING AND MULCHING | | |
| | 660 | | | | | | | | | | | 660 | 659 | 14000 | 660 | SY | REPAIR SEEDING AND MULCHING | | |
| | 660 | | | | | | | | | | | 660 | 659 | 15000 | 660 | SY | INTER-SEEDING | | |
| | 1.8 | | | | | | | | | | | 1.8 | 659 | 20000 | 1.8 | TON | COMMERCIAL FERTILIZER | | |
| | 2.73 | | | | | | | | | | | 2.73 | 659 | 31000 | 2.73 | ACRE | LIME | | |
| | 35.6 | | | | | | | | | | | 35.6 | 659 | 35000 | 35.6 | MGAL | WATER | | |
| | | | | | | | | 448 | | | | 448 | 670 | 00700 | 448 | SY | DITCH EROSION PROTECTION | | |
| | | | | | | | | | | | | LS | 832 | 15000 | LS | | STORM WATER POLLUTION PREVENTION PLAN | | |
| | | | | | | | | | | | | LS | 832 | 15002 | LS | | STORM WATER POLLUTION PREVENTION INSPECTIONS | | |
| | | | | | | | | | | | | LS | 832 | 15010 | LS | | STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE | | |
| | | | | | | | | | | | | 55,000 | 832 | 30000 | 55,000 | EACH | EROSION CONTROL | | |
| | | | | | | | | | | | | | | | | | DRAINAGE | | |
| | | | | | | | | | | | | LS | 503 | 11100 | LS | | COFFERDAMS AND EXCAVATION BRACING | | |
| | | | | | | | | | | | | LS | 503 | 21320 | LS | | UNCLASSIFIED EXCAVATION, INCLUDING ROCK | | |
| | | | | | | | | | | | | 42 | 602 | 20000 | 42 | CY | CONCRETE MASONRY | | |
| | | | | | | | | 42 | | | | 2,246 | 605 | 11100 | 2,246 | FT | 6" SHALLOW PIPE UNDERDRAINS | | |
| | | | | | | | | | | | | 25 | 611 | 00400 | 25 | FT | 4" CONDUIT, TYPE E, FOR PULL BOXES | | |
| | | | | | | | | | | 25 | | 90 | 611 | 00510 | 90 | FT | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS | | |
| | | | | | | | | | | | | 319 | 611 | 04400 | 319 | FT | 12" CONDUIT, TYPE B | | |
| | | | | | | | | | | | | 17 | 611 | 04600 | 17 | FT | 12" CONDUIT, TYPE C | | |
| | | | | | | | | | | | | 77 | 611 | 05900 | 77 | FT | 15" CONDUIT, TYPE B | | |
| | | | | | | | | | | | | 6 | 611 | 06100 | 6 | FT | 15" CONDUIT, TYPE C | | |
| | | | | | | | | | | | | 33 | 611 | 10600 | 33 | FT | 24" CONDUIT, TYPE C | | |
| | | | | | | | | | | | | 450 | 611 | 52502 | 450 | FT | 24" X 38" CONDUIT, TYPE B, 706.04 | | |

GENERAL SUMMARY

DESIGN AGENCY

 DESIGNER
 BMG
 REVIEWER
 MAG 09/30/22
 PROJECT ID
 107161
 SHEET TOTAL
 27 103

| SHEET NUM. | | | | | | | | | | | | PART. | ITEM | ITEM | GRAND | UNIT | DESCRIPTION | SEE SHEET NO. |
|------------|------|-----|----|---|----|----|--|--|----|----|-------|-----------|------|-------|-------|------|---|---------------|
| 7 | 8 | 9 | 10 | | 43 | 62 | | | 78 | 79 | 80 | 01/SAF/21 | EXT | TOTAL | | | | |
| | | | | | | | | | 12 | 1 | | 13 | 625 | 32000 | 13 | EACH | TRAFFIC SIGNALS | |
| | | | | | | | | | | | 208 | 208 | 625 | 36010 | 208 | FT | GROUND ROD | |
| | | | | | | | | | 4 | | | 4 | 632 | 05006 | 4 | EACH | UNDERGROUND WARNING/MARKING TAPE | |
| | | | | | | | | | 5 | | | 5 | 632 | 05086 | 5 | EACH | VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE | |
| | | | | | | | | | 8 | | | 8 | 632 | 20731 | 8 | EACH | VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE | |
| | | | | | | | | | 8 | | | 8 | 632 | 20750 | 8 | EACH | PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN | 71 |
| | | | | | | | | | 9 | | | 9 | 632 | 25000 | 9 | EACH | ACCESSIBLE PEDESTRIAN PUSHBUTTON | |
| | | | | | | | | | 8 | | | 8 | 632 | 25010 | 8 | EACH | COVERING OF VEHICULAR SIGNAL HEAD | |
| | | | | | | | | | | | 834 | 834 | 632 | 30980 | 834 | FT | COVERING OF PEDESTRIAN SIGNAL HEAD | |
| | | | | | | | | | | | 1,361 | 1,361 | 632 | 40500 | 1,361 | FT | SIGNAL CABLE, 3 CONDUCTOR, NO. 10 AWG | |
| | | | | | | | | | | | 2,573 | 2,573 | 632 | 40700 | 2,573 | FT | SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG | |
| | | | | | | | | | 4 | | | 4 | 632 | 64011 | 4 | EACH | SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG | |
| | | | | | | | | | 8 | | | 8 | 632 | 64020 | 8 | EACH | SIGNAL SUPPORT FOUNDATION, AS PER PLAN | 71 |
| | | | | | | | | | | | | 2 | 632 | 64950 | 2 | EACH | PEDESTAL FOUNDATION | |
| | | | | | | | | | | | | | | | | | TEST HOLE PERFORMED | |
| | | | | | | | | | | | 56 | 56 | 632 | 68300 | 56 | FT | POWER CABLE, 3 CONDUCTOR, NO. 6 AWG | |
| | | | | | | | | | | | 33 | 33 | 632 | 69800 | 33 | FT | SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG | |
| | | | | | | | | | 1 | | | 1 | 632 | 70000 | 1 | EACH | POWER SERVICE | |
| | | | | | | | | | 2 | | | 2 | 632 | 79141 | 2 | EACH | COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN | 72 |
| | | | | | | | | | 2 | | | 2 | 632 | 79151 | 2 | EACH | COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN | 72 |
| | | | | | | | | | 8 | | | 8 | 632 | 89901 | 8 | EACH | PEDESTAL, 8', TRANSFORMER BASE, AS PER PLAN | 72 |
| | | | | | | | | | | 1 | | 1 | 632 | 90100 | 1 | EACH | REMOVAL OF TRAFFIC SIGNAL INSTALLATION | 70 |
| | | | | | | | | | | 1 | | 1 | 633 | 65511 | 1 | EACH | CABINET, TYPE TS-2, AS PER PLAN | 70 |
| | | | | | | | | | | 1 | | 1 | 633 | 67100 | 1 | EACH | CABINET FOUNDATION | |
| | | | | | | | | | | 1 | | 1 | 633 | 67200 | 1 | EACH | CONTROLLER WORK PAD | |
| | | | | | | | | | | 1 | | 1 | 633 | 68510 | 1 | EACH | COMMUNICATIONS | |
| | | | | | | | | | | 1 | | 1 | 633 | 74001 | 1 | EACH | UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN | 71 |
| | | | | | | | | | | 3 | | 3 | 809 | 69001 | 3 | EACH | ADVANCE RADAR DETECTION, AS PER PLAN | 71 |
| | | | | | | | | | | 4 | | 4 | 809 | 69101 | 4 | EACH | STOP LINE RADAR DETECTION, AS PER PLAN | 71 |
| | | | | | | | | | | 1 | | 1 | 809 | 69123 | 1 | EACH | ATC CONTROLLER, AS PER PLAN | 70 |
| | | | | | | | | | | | | | | | | | MISCELLANEOUS STRUCTURE | |
| | | | | | | | | | | | | LS | 202 | 11000 | LS | | STRUCTURE REMOVED | |
| | | | | | LS | LS | | | | | | LS | 503 | 21320 | LS | | UNCLASSIFIED EXCAVATION, INCLUDING ROCK | 43,62 |
| | | | | | | | | | | | | 25 | 517 | 73501 | 25 | FT | RAILING, PIPE, AS PER PLAN | 6 |
| | | | | | | | | | | | | | | | | | MAINTENANCE OF TRAFFIC | |
| | 5 | | | | | | | | | | | 5 | 410 | 12000 | 5 | CY | TRAFFIC COMPACTED SURFACE, TYPE A OR B | |
| | 5 | | | | | | | | | | | 5 | 410 | 13000 | 5 | CY | TRAFFIC COMPACTED SURFACE, TYPE C | |
| | | | 70 | | | | | | | | | 70 | 614 | 11110 | 70 | HOUR | LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE | |
| | | 4 | | | | | | | | | | 4 | 614 | 12380 | 4 | EACH | WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL) | |
| | 5 | | | | | | | | | | | 5 | 614 | 13000 | 5 | CY | ASPHALT CONCRETE FOR MAINTAINING TRAFFIC | |
| | | 39 | | | | | | | | | | 39 | 614 | 13310 | 39 | EACH | BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL | |
| | | 39 | | | | | | | | | | 39 | 614 | 13360 | 39 | EACH | OBJECT MARKER, TWO WAY | |
| | | | LS | | | | | | | | | LS | 614 | 18002 | LS | | MAINTAINING TRAFFIC, MISC.: TEMPORARY TRAFFIC SIGNAL | 9 |
| | | | | 6 | | | | | | | | 6 | 614 | 18601 | 6 | SNMT | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN | 10 |
| | 1 | | | | | | | | | | | 1 | 614 | 21000 | 1 | MILE | WORK ZONE CENTER LINE, CLASS I | |
| | 0.74 | | | | | | | | | | | 0.74 | 614 | 21550 | 0.74 | MILE | WORK ZONE CENTER LINE, CLASS III, 642 PAINT | |
| | 2 | | | | | | | | | | | 2 | 614 | 22010 | 2 | MILE | WORK ZONE EDGE LINE, CLASS I, 6" | |
| | 1.01 | | | | | | | | | | | 1.01 | 614 | 22360 | 1.01 | MILE | WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT | |
| | 100 | | | | | | | | | | | 100 | 614 | 26000 | 100 | FT | WORK ZONE STOP LINE, CLASS I | |
| | 150 | | | | | | | | | | | 150 | 614 | 26610 | 150 | FT | WORK ZONE STOP LINE, CLASS III, 642 PAINT | |
| | | | 4 | | | | | | | | | 4 | 614 | 40950 | 4 | EACH | BUSINESS ENTRANCE SIGN | |
| | | | LS | | | | | | | | | LS | 615 | 10000 | LS | | ROADS FOR MAINTAINING TRAFFIC | |
| | 470 | | | | | | | | | | | 470 | 615 | 20000 | 470 | SY | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A | |
| | 20 | | | | | | | | | | | 20 | 616 | 10000 | 20 | MGAL | WATER | |
| | | 990 | | | | | | | | | | 990 | 622 | 41100 | 990 | FT | PORTABLE BARRIER, UNANCHORED | |
| | | | | | | | | | | | | | | | | | INCIDENTALS | |
| | | | | | | | | | | | | LS | 614 | 11000 | LS | | MAINTAINING TRAFFIC | |
| | | | | | | | | | | | | LS | 614 | 12420 | LS | | DETOUR SIGNING | |
| | | | | | | | | | | | | 5 | 619 | 16010 | 5 | MNTH | FIELD OFFICE, TYPE B | |
| | | | | | | | | | | | | LS | 623 | 10000 | LS | | CONSTRUCTION LAYOUT STAKES AND SURVEYING | |
| | | | | | | | | | | | | LS | 624 | 10000 | LS | | MOBILIZATION | |

GENERAL SUMMARY

DESIGN AGENCY

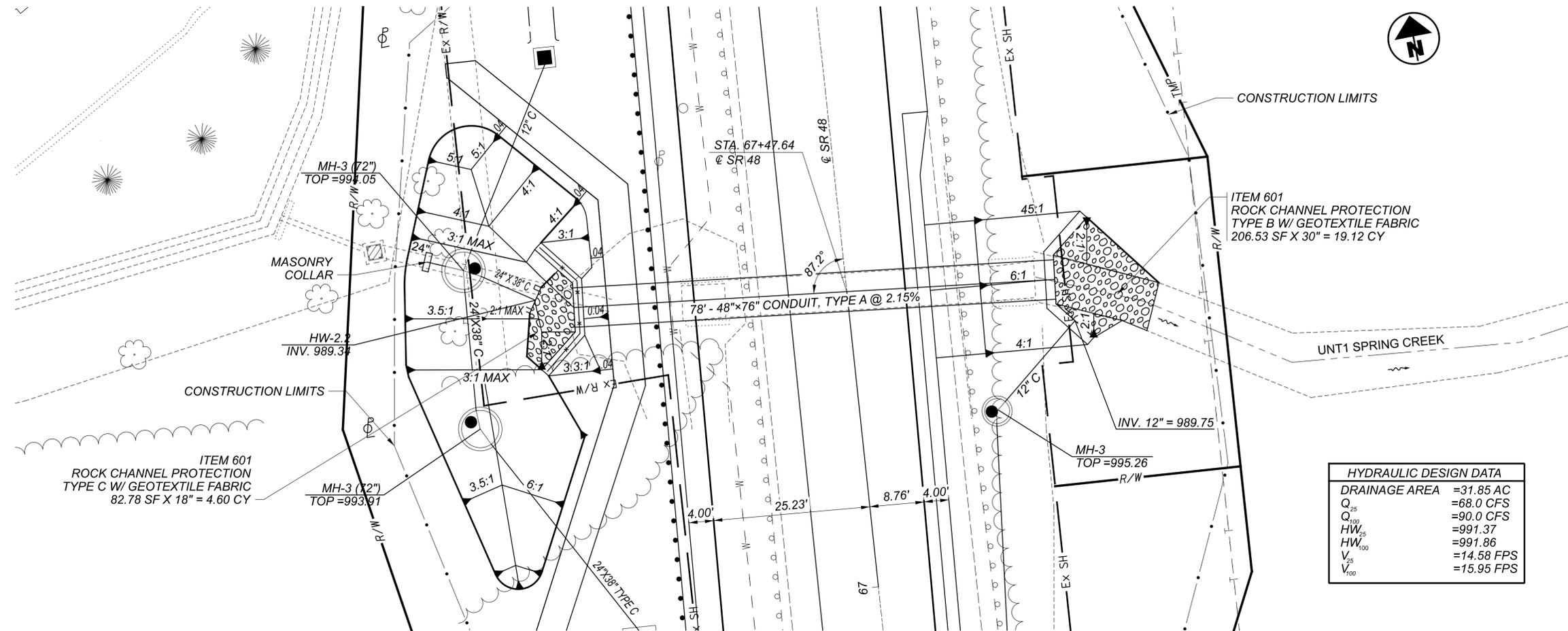
 DESIGNER
BMG
 REVIEWER
 MAG 09/30/22
 PROJECT ID
 107161
 SHEET TOTAL
 29 | 103

| REF NO. | SHEET NO. | STATION TO STATION | | | | 602 | 605 | 611 | 611 | 611 | 611 | 611 | 611 | 611 | 611 | 611 | 611 | 611 | 611 | 611 | BENDS AND BRANCHES FOR INFORMATION ONLY | | |
|-----------------------------------|------------|--------------------|----|----|----------|------------------|-----------------------------|---|------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------------|-----------------------|----------------------|---|----------------|-------------|
| | | | | | | CONCRETE MASONRY | 6" SHALLOW PIPE UNDERDRAINS | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS | PRECAST REINFORCED CONCRETE OUTLET | 12" CONDUIT, TYPE B | 12" CONDUIT, TYPE C | 15" CONDUIT, TYPE B | 15" CONDUIT, TYPE C | 24" CONDUIT, TYPE C | 24" X 38" CONDUIT, TYPE B, 706.04 | 24" X 38" CONDUIT, TYPE C, 706.04 | 48" X 76" CONDUIT, TYPE A, 706.04 | CATCH BASIN, NO. 3 | CATCH BASIN, NO. 2-2B | CATCH BASIN, NO. 2-4 | CATCH BASIN, NO. 2-5 | MANHOLE, NO. 3 | 6"-45° BEND |
| | | | | | CY | FT | FT | EACH | FT | FT | FT | FT | FT | FT | FT | EACH | EACH | EACH | EACH | EACH | | | |
| SR 48 | | | | | | | | | | | | | | | | | | | | | | | |
| D-1 | 35 | 54+83.34 | LT | TO | 55+32.27 | | 56 | 10 | 1 | | | | | | | | | | | | 1 | | |
| D-2 | 35 | 55+34.98 | LT | TO | 55+35.63 | 0.4 | | | | | | | | | | | | | | | | | |
| D-3 | 35-36 | 55+37.42 | LT | TO | 57+67.24 | | 236 | 10 | 1 | | | | | | | | | | | | 1 | | |
| D-4 | 35 | 55+49.97 | LT | TO | 56+27.24 | 0.3 | | | | | 77 | | | | | | | | | | | | |
| D-5 | 35 | 56+26.27 | LT | TO | 56+27.24 | | | | | | | | | | | | | | | | | | |
| D-6 | 35-36 | 56+27.24 | LT | TO | 57+00.02 | 0.2 | | | | | | | | | | | | | | | | | |
| D-7 | 36 | 57+70.32 | LT | TO | 59+02.68 | | | | | | | | | | | | | | | | | | |
| D-8 | 36 | 59+02.68 | LT | TO | 59+06.19 | 0.4 | | | | | | | | | | | | | | | 1 | | |
| D-9 | 36-37 | 59+07.66 | LT | TO | 62+58.50 | | 349 | 10 | | | | | | | | | | | | | | | |
| D-10 | NOT USED | | | | | | | | | | | | | | | | | | | | | | |
| D-11 | 37 | 62+53.00 | LT | TO | 62+58.50 | | | | | | | | | | | | | | | | | | |
| D-12 | 37 | 62+58.50 | LT | TO | 62+94.21 | | | | | | | | | | | | | | | | | | |
| D-13 | 37 | 62+94.21 | LT | TO | 62+95.12 | | | | | | | | | | | | | | | | | | |
| D-14 | 37 | 62+94.21 | LT | TO | 64+10.00 | | | | | | | | | | | | | | | | | | |
| D-15 | 7+45.32 LT | | | | | | | | | | | | | | | | | | | | | | |
| D-16 | 37 | 63+21.57 | RT | TO | 65+44.21 | | 243 | | | | | | | | | | | | | | | | |
| D-17 | 37-38 | 63+61.22 | LT | TO | 66+95.00 | | 330 | 10 | | | | | | | | | | | | | | | |
| D-18 | 37 | 64+05.00 | LT | TO | 64+10.00 | | | | | | | | | | | | | | | | | | |
| D-19 | 37 | 64+10.00 | LT | TO | 64+84.00 | | | | | | | | | | | | | | | | | | |
| D-20 | 37 | 64+84.00 | LT | TO | 65+10.00 | | | | | | | | | | | | | | | | | | |
| D-21 | 37 | 65+10.00 | LT | TO | 66+05.00 | | | | | | | | | | | | | | | | | | |
| D-22 | 37-38 | 65+44.27 | RT | TO | 67+21.00 | | | | | | | | | | | | | | | | | | |
| D-23 | 37-38 | 65+65.70 | RT | TO | 67+21.00 | | 150 | 10 | | | | | | | | | | | | | | | |
| D-24 | 37-38 | 66+05.00 | LT | TO | 66+95.00 | | | | | | | | | | | | | | | | | | |
| D-25 | 38 | 66+95.00 | LT | TO | 67+32.00 | | | | | | | | | | | | | | | | | | |
| D-26 | 38 | 67+21.00 | RT | TO | 67+31.77 | | | | | | | | | | | | | | | | | | |
| D-27 | 38 | 67+32.00 | LT | TO | 67+57.56 | | | | | | | | | | | | | | | | | | |
| D-28 | 38 | 67+46.00 | RT | TO | 67+49.78 | 39.8 | | | | | | | | | | | | | | | | | |
| D-29 | 38 | 67+51.60 | LT | TO | 67+57.56 | 0.4 | | | | | | | | | | | | | | | | | |
| D-30 | NOT USED | | | | | | | | | | | | | | | | | | | | | | |
| D-31 | NOT USED | | | | | | | | | | | | | | | | | | | | | | |
| D-32 | 38 | 67+57.56 | LT | TO | 67+90.17 | | | | | | | | | | | | | | | | | | |
| D-33 | 38 | 67+90.17 | LT | TO | 71+16.60 | | 324 | 10 | | | | | | | | | | | | | | | |
| D-34 | 38-39 | 71+21.11 | LT | TO | 72+91.79 | | 168 | 10 | | | | | | | | | | | | | | | |
| D-35 | 39 | 72+87.90 | LT | TO | 75+54.01 | | 266 | 10 | 1 | | | | | | | | | | | | | | |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | 42.0 | 2246 | 90 | 3 | 319 | 17 | 77 | 6 | 33 | | 450 | 140 | 78 | 2 | 3 | 3 | 1 | 6 | |

ESTIMATED QUANTITIES

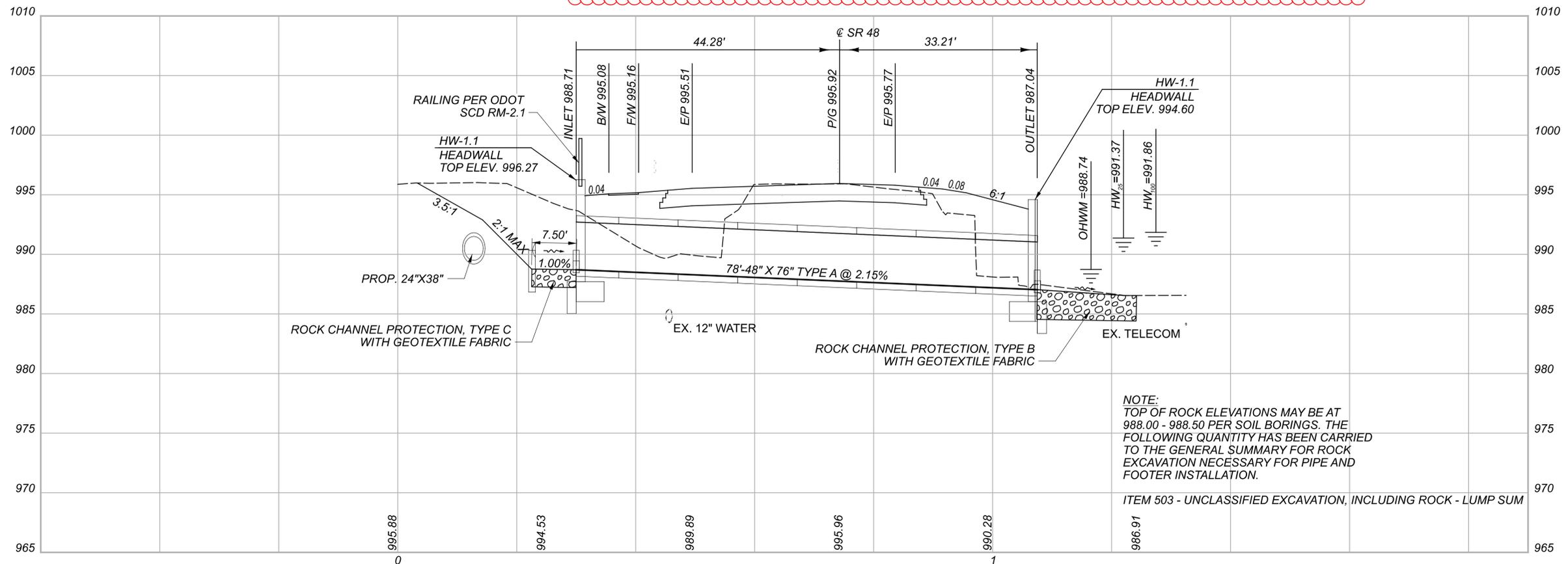
DESIGN AGENCY

 DESIGNER
 AIM
 REVIEWER
 BMG 09/30/22
 PROJECT ID
 107161
 SHEET TOTAL
 32 103



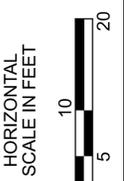
| HYDRAULIC DESIGN DATA | |
|-----------------------|------------|
| DRAINAGE AREA | =31.85 AC |
| Q_{25} | =68.0 CFS |
| Q_{100} | =90.0 CFS |
| HW_{25} | =991.37 |
| HW_{100} | =991.86 |
| V_{25} | =14.58 FPS |
| V_{100} | =15.95 FPS |

A LUMP SUM QUANTITY OF ITEM 503 - COFFERDAMS AND EXCAVATION BRACING HAS BEEN CARRIED TO THE GENERAL SUMMARY



NOTE:
 TOP OF ROCK ELEVATIONS MAY BE AT 988.00 - 988.50 PER SOIL BORINGS. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ROCK EXCAVATION NECESSARY FOR PIPE AND FOOTER INSTALLATION.

ITEM 503 - UNCLASSIFIED EXCAVATION, INCLUDING ROCK - LUMP SUM



CULVERT DETAIL
 STA. 67+43.23

DESIGN AGENCY



| | |
|------------|--------|
| DESIGNER | BMG |
| REVIEWER | MAG |
| PROJECT ID | 107161 |
| SHEET | 62 |
| TOTAL | 103 |