

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## OTT-2-17.69

### ERIE TOWNSHIP OTTAWA COUNTY

**FEDERAL PROJECT NUMBER**

E240289

**RAILROAD INVOLVEMENT**

NONE

**PROJECT DESCRIPTION**

SLOPE REPAIR OF A LANDSLIDE ON THE RIGHT SIDE OF EASTBOUND STATE ROUTE 2 IN OTTAWA COUNTY. INSTALL NEW CURB AND TIED-BLOCK MATS TO CONTROL EROSION ALONG THE OUTSIDE SHOULDER ON THE LEFT AND RIGHT SIDE OF SR 2.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA: 0.58 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.35 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: 0.93 ACRES  
 EXEMPT (MAINTENANCE)

**LIMITED ACCESS**

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

**2023 SPECIFICATIONS**

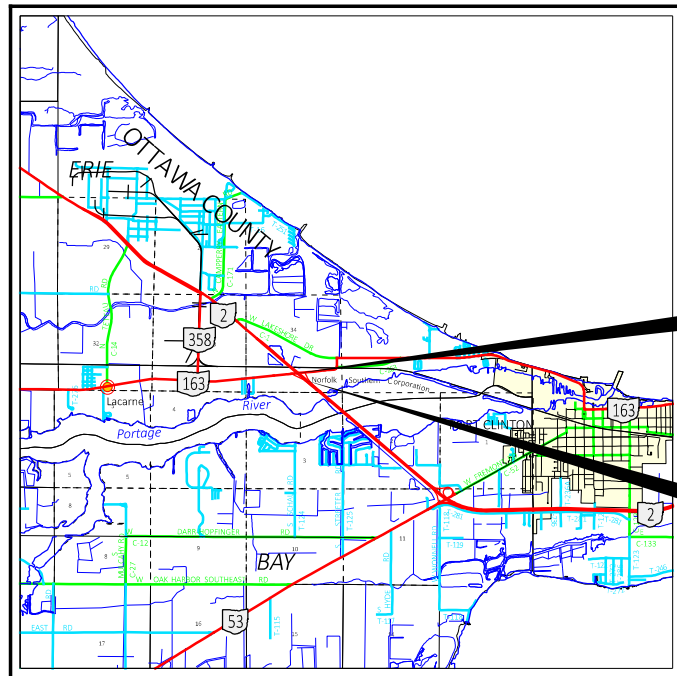
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

**TRAFFIC NOT REROUTED**

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING OF TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

*Pat McColley, PE*  
 Pat McColley, P.E., S.I.  
 District 02 Deputy Director

*Pamela Boratyn*  
 Pamela Boratyn  
 Director, Department of Transportation



**LOCATION MAP**

LATITUDE: 41°31'06" LONGITUDE: -83°00'07"



PORTION TO BE IMPROVED	=====
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	=====
OTHER ROADS	=====

**DESIGN DESIGNATION**

CURRENT ADT (20 ) ..... SEE SHEET 2  
 DESIGN YEAR ADT (20 ) .....  
 DESIGN HOURLY VOLUME (20 ) .....  
 DIRECTIONAL DISTRIBUTION .....  
 TRUCKS (24 HOUR B&C) .....  
 DESIGN SPEED .....  
 LEGAL SPEED .....  
 DESIGN FUNCTIONAL CLASSIFICATION:

NHS PROJECT ..... YES

**DESIGN EXCEPTIONS**

NONE REQUIRED

**ADA DESIGN WAIVERS**

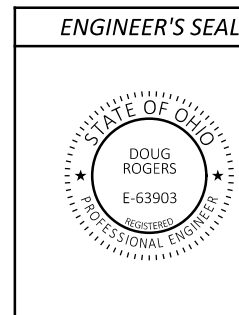
NONE REQUIRED

**UNDERGROUND UTILITIES**  
 Contact Two Working Days  
 Before You Dig

**OHIO811.org**  
 Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764  
 (Non members must be called directly)

PLAN PREPARED BY:  
 ODOT DISTRICT TWO  
 317 E. POE ROAD  
 BOWLING GREEN, OHIO



**INDEX OF SHEETS:**

TITLE SHEET	1
SCHEMATIC	2
TYPICAL SECTIONS	3-5
GENERAL NOTES	6-7
MAINTENANCE OF TRAFFIC	8-29
GENERAL SUMMARY	30-31
SUBSUMMARIES	32-35
PLAN AND PROFILE	36
CROSS SECTION	37-42
GEOTECHNICAL SOIL PROFILE SHEETS	43-54

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/19/24	MGS-4.3	1/18/13	MT-98.30	7/16/21	800-2023	7/19/24
BP-5.1	7/15/22	MGS-5.2	7/15/16	MT-101.70	7/19/24	821	4/20/12
BP-6.1	7/19/13	MGS-6.1	1/19/18	MT-101.75	7/21/23	832	7/19/24
				MT-101.90	7/17/20	875	1/18/19
CB-6	7/19/24	RM-4.1	1/17/20	MT-104.10	1/19/24	921	7/19/24
		RM-4.2	4/17/20	MT-105.10	1/17/20		
DM-1.1	7/17/20	RM-4.6	7/19/13				
DM-1.2	7/16/21			TC-41.10	7/19/13		
DM-4.3	1/15/16	HW-2.1	7/15/22	TC-51.11	1/15/16		
DM-4.4	1/15/16	HW-2.2	7/20/18	TC-51.12	1/15/16		
				TC-52.10	10/18/13		
MGS-1.1	7/16/21	MT-95.30	7/19/19	TC-52.20	1/15/21		
MGS-2.1	1/19/18	MT-95.40	7/21/23				
MGS-3.1	1/19/18	MT-95.41	7/21/23				
MGS-3.2	1/18/13	MT-95.50	7/21/17				
MGS-4.2	7/19/13	MT-98.20	4/19/19				

TITLE SHEET

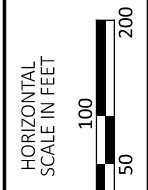
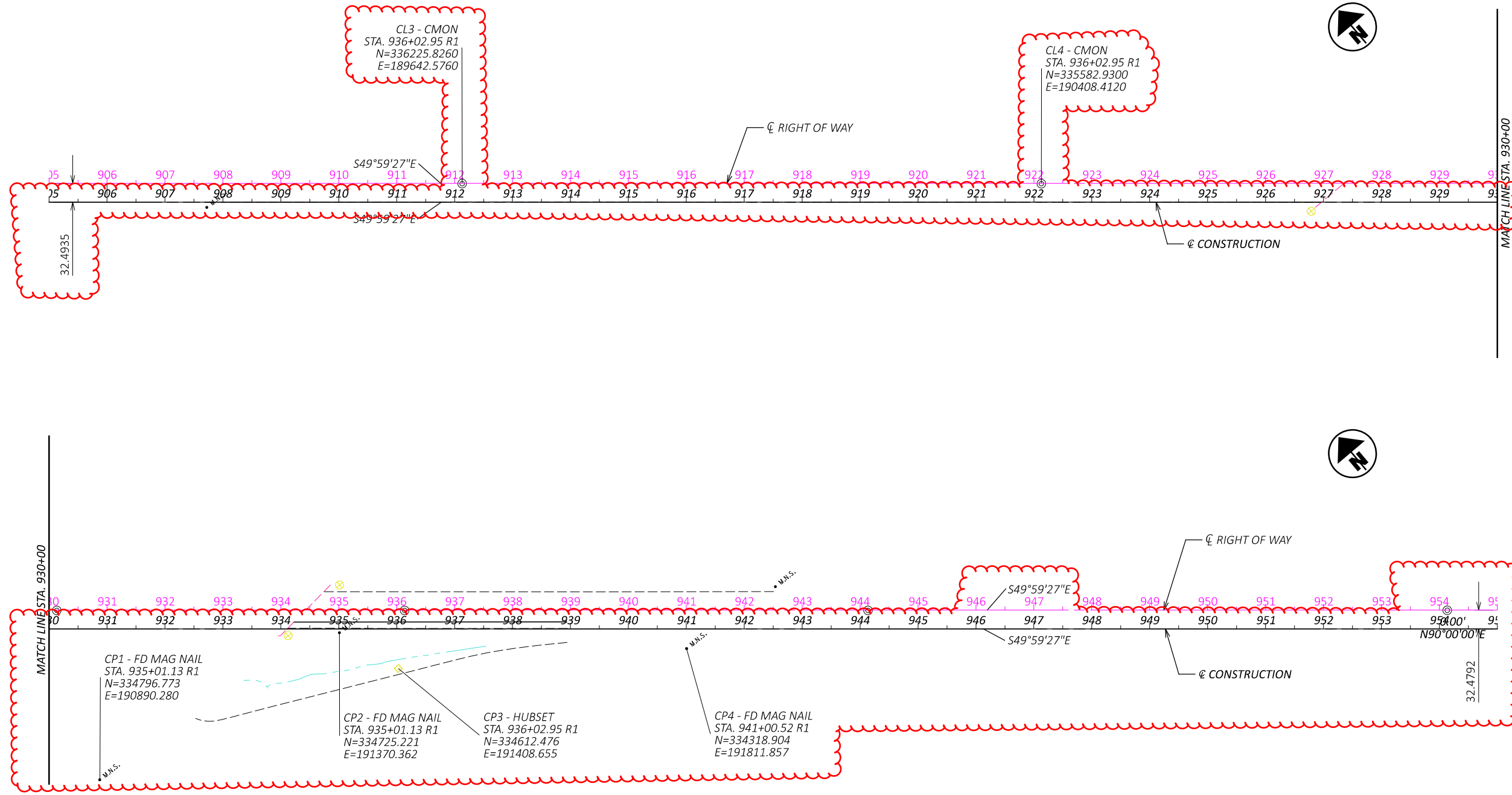
DESIGN AGENCY



DESIGNER	DAR
REVIEWER	DG
PROJECT ID	120413
SHEET	P.1
TOTAL	54

OTT-2-17.69

MODEL: Sheet\_SurvF1 PAPER SIZE: 17x11 (in.) DATE: 4/18/2025 TIME: 12:42:47 PM USER: drogers2 pwc:\ohio\dot-pw-bentley.com\shahid\pww-02\Documents\01 Active Projects\District 02\Ottawa\120413\400-Engineering\Roadway\Sheets\120413\_GT002.dgn



SCHEMATIC

PROJECT CONTROL TABLE						
STATION/OFFSET		PROJECT COORDINATES (SEE SURVEY PARAMETERS)			MONUMENT DESCRIPTION	
STATION (C/L of R/W)	OFFSET (C/L of R/W)	NORTHING(ft)	EASTING(ft)	ELEV(ft) (NAVD88/18)	PT #	DESCRIPTION
SURVEY CONTROL						
926+78.77 R1	292.88 RT	334796.773	190890.280	577.54 *	CP1	MAG NAIL SET IN ASPHALT SHOULDER BY MAIL BOX ON SR 163
936.02.95 R1	100.79 RT	334612.476	191408.655	584.94 *	CP3	HUBSET IN GRASS UP SR 163 RAMP ONTO SR 2
941+00.52 R1	66.44 RT	334318.904	191811.857	583.43 *	CP4	MAG NAIL SET IN ASPHALT AT THE END OF RAMP AND GUARDRAIL
935+01.13 R1	39.05 RT	334725.221	191370.362	600.00 *	CP2	MAG NAIL SET ON SR 2 ASPHALT AFTER BRIDGE
BENCHMARKS						
926+78.77 R1	48.05 RT	335247.012	190734.679	607.102	BM100	BOLT ON SIGN SUPPORT BASE
934+12.56 R1	44.12 RT	334778.277	191299.256	602.006	BM1	BOX CUT IN C/BAR
935+01.40 R1	43.28 LT	334788.105	191423.495	599.935	BM200	MAG NAIL SET ON GUARDRAIL POST

\*This elevation may be subject to seasonal changes. Confirm elevation against other primary vertical control and benchmarks just prior to the start of construction activities.

	OTT-002-17.68	OTT-002-17.68 (EB ramp)
Opening Year ADT (2024)	10,500	1,900
Design Year ADT (2044)	11,500	2,000
DHV	1,500	250
Directional Distribution	53%	100%
Functional Class	Principal Arterial	Principal Arterial
Trucks	9%	3%
Design Speed	65	65
Legal Speed	65	65

DESIGN AGENCY

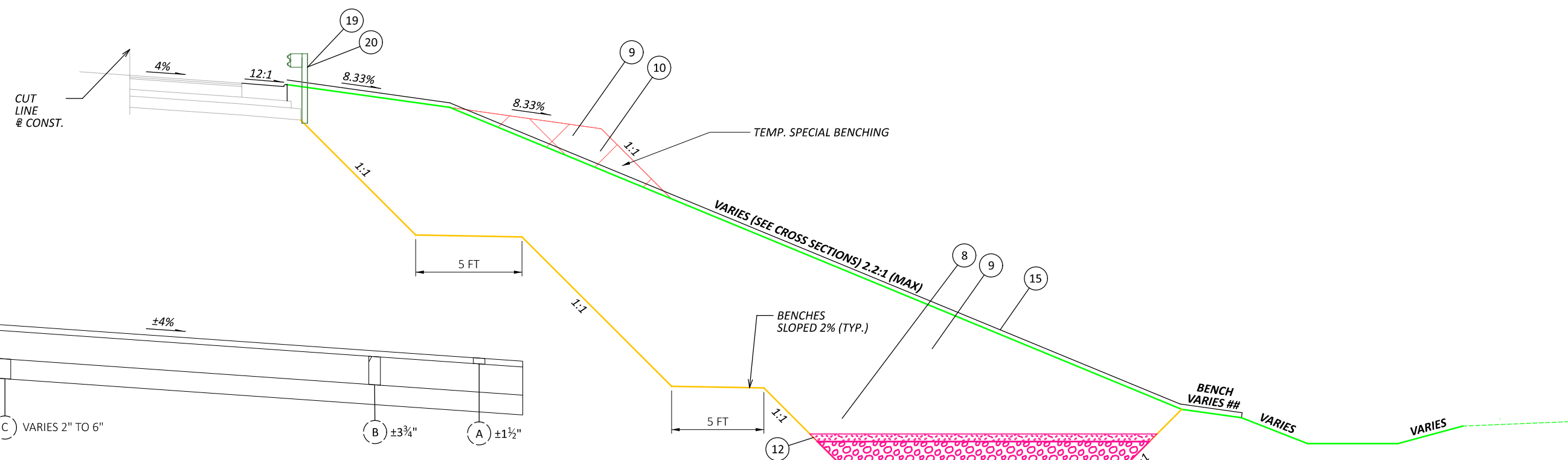


DESIGNER  
DAR

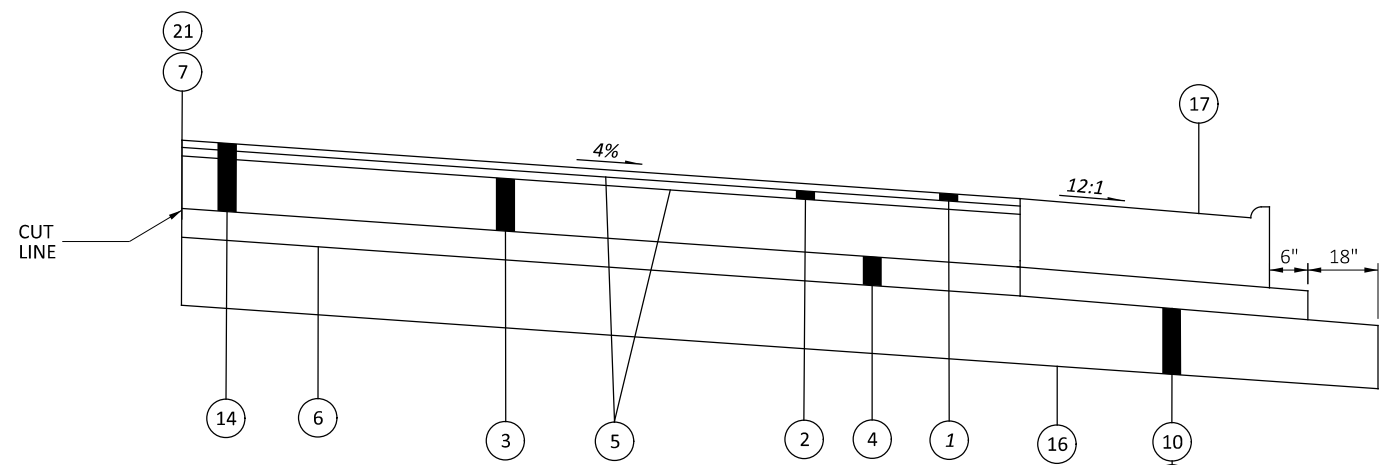
REVIEWER  
RN 9-19-24

PROJECT ID  
120413

SHEET TOTAL  
P.2 42



**EXISTING SHOULDER PAVEMENT**



**EDGE DETAIL**

- A ASPHALT CONCRETE SURFACE COURSE
- B ASPHALT CONCRETE INTERMEDIATE COURSE
- C ASPHALT CONCRETE BASE
- D AGGREGATE BASE

**SPECIAL BENCHING**

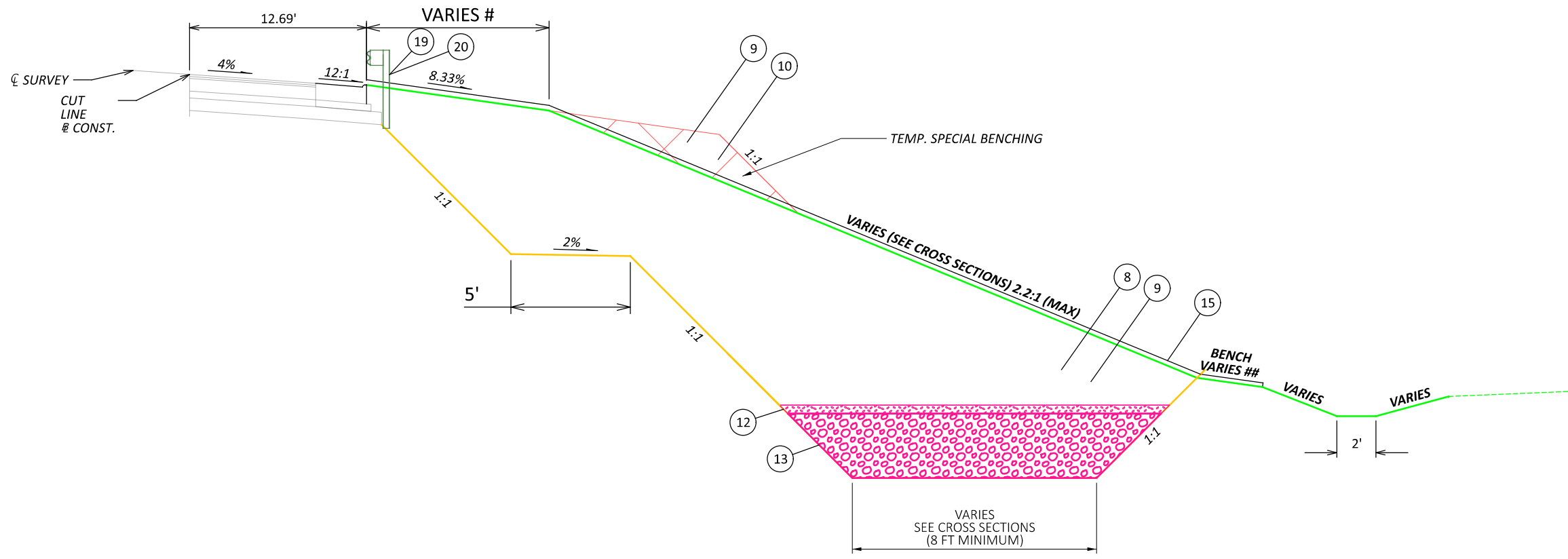
APPLIES  
 STA. 934+00 TO 936+49.50  
 ## - SEE SHEET 4 FOR NOTE

**LEGEND**

- 1 1½" - ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449)
- 2 1¾" - ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449)
- 3 6" - ITEM 301 ASPHALT CONCRETE BASE, P64-22, (449)
- 4 6" - ITEM 304 AGGREGATE BASE
- 5 ITEM 407 TACK COAT
- 6 ITEM 204 SUBGRADE COMPACTION
- 7 ITEM 875 LONGITUDINAL JOINT ADHESIVE
- 8 ITEM 202 EXCAVATION
- 9 ITEM 203 EMBANKMENT
- 10 12" - ITEM 204 EXCAVATION OF SUBGRADE
- 11 12" - ITEM 204 GRANULAR MATERIAL, TYPE C
- 12 6" - ITEM 203 GRANULAR MATERIAL, TYPE B
- 13 18" - ITEM 203 GRANULAR MATERIAL, TYPE D
- 14 ITEM 202 PAVEMENT REMOVED
- 15 ITEM 601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
- 16 ITEM 204 GEOTEXTILE FABRIC
- 17 ITEM 609 CURB AND GUTTER, TYPE 4
- 18 ITEM 609 CURB AND GUTTER, TYPE 4, AS PER PLAN
- 19 ITEM 202 GUARDRAIL REMOVED (TYPE 5)
- 20 ITEM 606 GUARDRAIL, TYPE MGS
- 21 ITEM 252 FULL DEPTH PAVEMENT SAWING

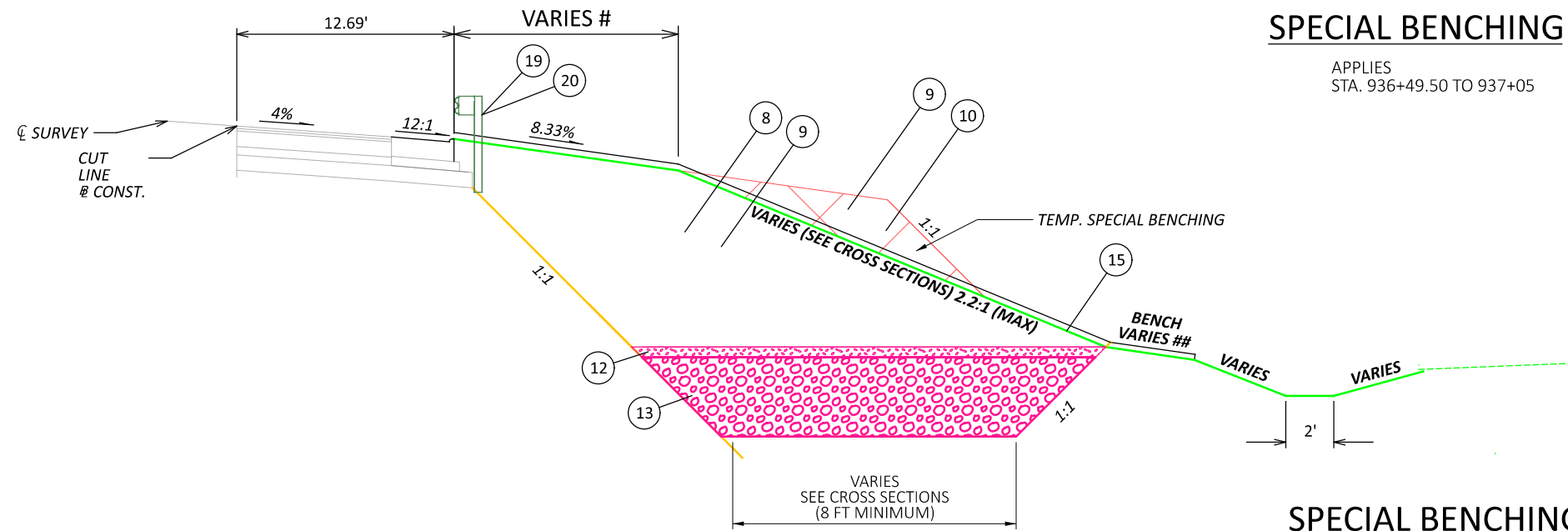
TYPICAL SECTIONS

DESIGN AGENCY	
DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.3
TOTAL	54



**SPECIAL BENCHING**

APPLIES  
 STA. 936+49.50 TO 937+05



**SPECIAL BENCHING**

APPLIES  
 STA. 937+05 TO 938+00

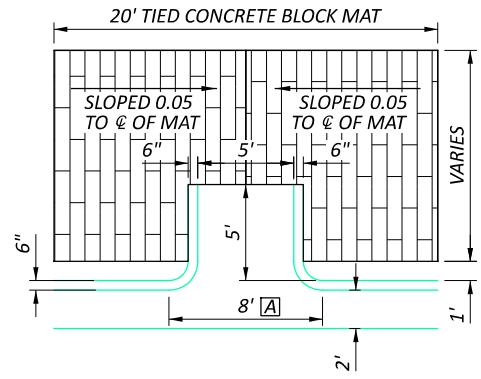
**NOTES:**

SEE SHEET 3 FOR LEGEND

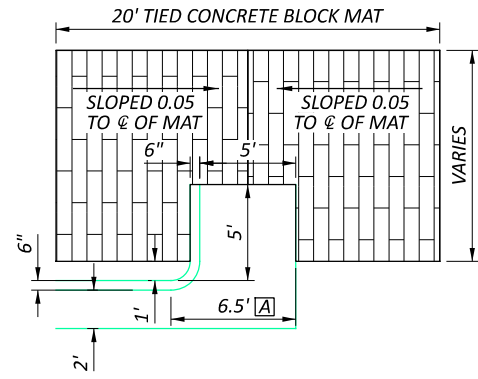
# - VARIES 6 FT @ STA. 936+50 TO 4 FT @ STA. 937+54  
 4 FT @ STA. 937+54 TO 3 FT @ STA. 938+02

## - VARIES 2 FT @ STA. 934+00 TO 935+75  
 2 FT @ STA. 935+75 TO 0 FT @ STA. 937+00  
 0 FT @ STA. 937+00 TO 938+00

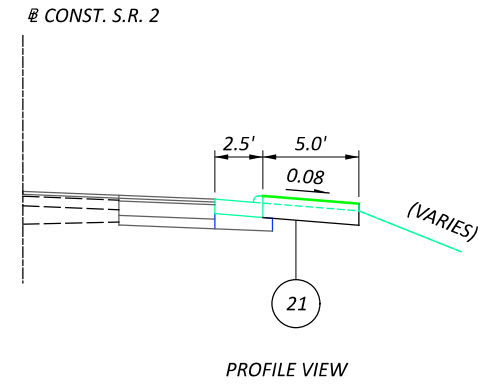




PLAN VIEW  
 APPLIES: S.R. 2 STA. 934+30.32 TO STA. 934+38.32 (EB)  
 935+99.34 TO STA. 936+07.45 (EB)  
 935+57.81 TO 935+65.81 (WB)  
 937+73.29 TO 937+81.29 (WB)



PLAN VIEW  
 APPLIES: S.R. 2 STA. 937+96.00 TO STA. 938+02.50 (EB)  
 STA. 940+18.77 TO STA. 940+21.27 (WB)



**GUTTER OUTLET DETAILS**

**NOTES:**

1. GUTTER OUTLET DETAILS APPLY TO EACH TIED CONCRETE BLOCK MAT LOCATION SHOWN IN THE PLANS
2. ADJUST AND CENTER SPILLWAY BETWEEN GUARDRAIL POSTS
- A PAY AS ITEM 609, COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN

TYPICAL SECTIONS

DESIGN AGENCY



DESIGNER  
 MAM

REVIEWER  
 DAR 1-16-25

PROJECT ID  
 120413

SHEET  
 P.5 54

**ROUNDING**

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

**UTILITIES**

THERE ARE NO KNOWN UNDERGROUND UTILITIES ON THIS PROJECT.

**SURVEYING PARAMETERS**

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET 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: ODOT VRS

**VERTICAL POSITIONING**

ORTHOMETRIC HEIGHT DATUM: NAVD88 (ODOT VRS DERIVED)  
GEOID: GEOID18

**HORIZONTAL POSITIONING**

REFERENCE FRAME: NAD 83 (2011)  
ELLIPSOID: GRS80  
MAP PROJECTION: TRANSVERSE MERCATOR  
COORDINATE SYSTEM: OTTAWA COUNTY  
COMBINED SCALE FACTOR: GRID=1.000023

SYSTEM: 100,000m, 50,000m

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.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**CLEARING AND GRUBBING, AS PER PLAN**

DUE TO ENVIRONMENTAL REGULATIONS, TREES WITHIN THE PROPOSED CONSTRUCTION LIMITS WILL BE CUT BY ODOT AND WILL REMAIN ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL STUMPS, WOODY DEBRIS, AND ANY REMAINING TREES AND BRUSH. A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN. ALL PROVISIONS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING, AS PER PLAN.

**BENCHING OF FOUNDATION SLOPES**

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

**SEEDING AND MULCHING**

SEE SHEET 32 FOR PLAN QUANTITIES PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

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.

**SLOPE PROTECTION**

FURNISH 4" OF ITEM 659 - TOPSOIL AND ITEM 671 EROSION CONTROL MAT, TYPE F FROM THE BACK OF THE CURB TO THE TOE OF THE EMBANKMENT SLOPE.

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

ITEM 671 - EROSION CONTROL MAT, TYPE F 3650 SY

**ITEM 202 - CONCRETE BARRIER REMOVED, AS PER PLAN**

REMOVE AND DELIVER AND OFFLOAD THE ODOT PORTABLE CONCRETE BARRIER LOCATED ON THE S.R. 2 EXISTING SHOULDER TO THE FOLLOWING LOCATION:

ODOT DEPARTMENT OF TRANSPORTATION - OTTAWA COUNTY GARAGE  
307 S. RAILROAD STREET  
OAK HARBOR, OHIO

DO NOT UTILIZE THIS CONCRETE BARRIER IN THE PROJECT

THE CONTRACTOR SHALL NOT REMOVE THE EXISTING PORTABLE CONCRETE BARRIER WALL UNTIL THE NEW PORTABLE BARRIER WALL IS INSTALLED.

PAYMENT SHALL BE MADE AT THE CONTRACT PRICE PER FOOT FOR ITEM 202 - CONCRETE BARRIER REMOVED, AS PER PLAN, AND SHALL INCLUDE THE COST OF REMOVING AND DELIVERING THE PORTABLE CONCRETE BARRIER.

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

ITEM 202 CONCRETE BARRIER REMOVED, AS PER PLAN 137.5 FT

**ITEM 202 - IMPACT ATTENUATOR REMOVED, AS PER PLAN**

REMOVE AND DELIVER AND OFFLOAD THE ODOT IMPACT ATTENUATOR LOCATED ON THE S.R. 2 EXISTING SHOULDER TO THE FOLLOWING LOCATION:

ODOT DEPARTMENT OF TRANSPORTATION - OTTAWA COUNTY GARAGE  
307 S. RAILROAD STREET  
OAK HARBOR, OHIO

DO NOT UTILIZE THIS IMPACT ATTENUATOR IN THE PROJECT THE CONTRACTOR SHALL NOT REMOVE THE EXISTING IMPACT ATTENUATOR UNTIL THE NEW IMPACT ATTENUATOR IS INSTALLED.

PAYMENT SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 202 - IMPACT ATTENUATOR REMOVED, AS PER PLAN, AND SHALL INCLUDE THE COST OF REMOVING AND DELIVERING THE IMPACT ATTENUATOR.

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

ITEM 202 IMPACT ATTENUATOR REMOVED, AS PER PLAN 1 EACH

**ITEM 202 - REMOVAL MISC.: TRAFFIC DRUMS**

REMOVE, DELIVER AND OFFLOAD THE ODOT TRAFFIC DRUMS LOCATED ON THE S.R. 2 EXISTING SHOULDER TO THE FOLLOWING LOCATION:

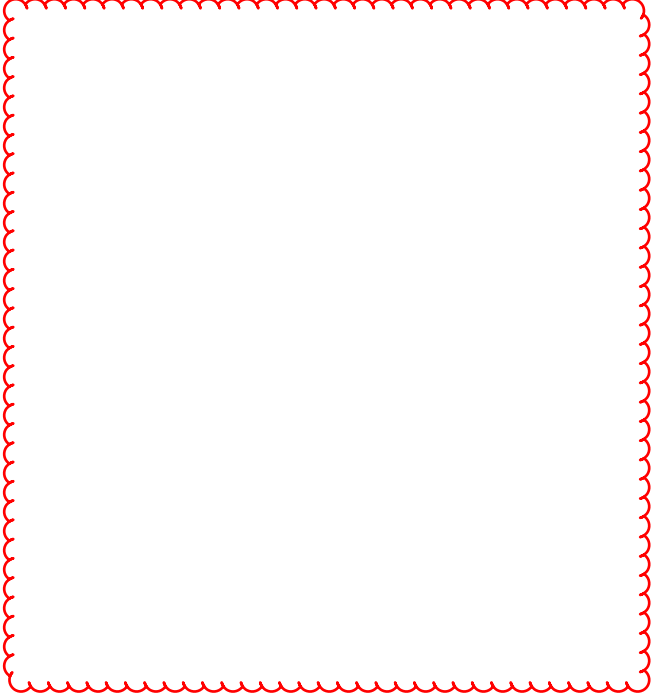
ODOT DEPARTMENT OF TRANSPORTATION - OTTAWA COUNTY GARAGE  
307 S. RAILROAD STREET  
OAK HARBOR, OHIO

DO NOT UTILIZE THE ODOT TRAFFIC DRUMS IN THE PROJECT.

PAYMENT SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 202 - REMOVAL MISC.: TRAFFIC DRUMS AND SHALL INCLUDE THE COST OF REMOVING, DELIVERING AND OFFLOADING THE TRAFFIC DRUMS.

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

ITEM 202 REMOVAL MISC.: TRAFFIC DRUMS LS



**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.

DESIGN AGENCY



DESIGNER  
MAM

REVIEWER  
DAR 1-7-25

PROJECT ID  
120413

SHEET TOTAL  
P.6 54

**ITEM 202 - REMOVAL MISC., UNDERDRAIN**

THIS ITEM SHALL PAY FOR ALL LABOR, FUEL, MATERIALS AND EQUIPMENT TO REMOVE THE EXISTING UNDERDRAIN FROM STA. 934+20 TO STA. 938+00. AT STA. 938+00, THE UNDERDRAIN SHALL BE CUT AND CAPPED TO AVOID SUBGRADE MATERIAL WASHING INTO THE UNDERDRAIN. THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF CMS 105.16 AND CMS 202. THIS ITEM SHALL BE PAID FOR UNDER:

ITEM 202 REMOVAL MISC., UNDERDRAIN

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

TEST THE EMBANKMENT MATERIAL PRIOR TO PLACEMENT TO VERIFY COMPLIANCE WITH CMS 703.13 SUITABLE MATERIALS FOR EMBANKMENT CONSTRUCTION. EMBANKMENT SAMPLES SHALL BE COLLECTED AND TESTED EVERY 4000 CY OR A MINIMUM OF 6 SAMPLES, WHICHEVER IS GREATER, FOR CLASSIFICATION TESTING BY AN ODOT PREQUALIFIED GEOTECHNICAL LAB, PER ODOT SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS 603.2. THE COST OF ACQUIRING, TRANSPORTING AND TESTING THE EMBANKMENT MATERIAL SAMPLES IS INCLUDED FOR PAYMENT IN ITEM 203 EMBANKMENT, AS PER PLAN.

**ITEM 203 - BORROW, AS PER PLAN**

THIS ITEM SHALL PAY FOR ALL LABOR, FUEL, MATERIALS AND EQUIPMENT TO PROVIDE THE NEEDED EMBANKMENT MATERIAL FOR THE PROJECT BEYOND THE AVAILABLE EXCAVATED MATERIAL IDENTIFIED IN THE PLANS. THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF CMS 105.16 AND CMS 203, EXCEPT PLACEMENT AND COMPACTION OF THE BORROW MATERIAL SHALL BE PAID FOR UNDER:  
ITEM 203 BORROW, AS PER PLAN

**ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN**

CONSTRUCT THE CONCRETE SPILLWAY IN ACCORDANCE WITH CMS 609 AND DETAILS ON PLAN SHEET 5. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE PER FOOT OF ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN, MEASURED PARALLEL TO THE CONSTRUCTION BASELINE.

GENERAL NOTES

DESIGN AGENCY



DESIGNER  
DAR

REVIEWER  
IB 9-25-24

PROJECT ID  
120413

SHEET P.7 TOTAL 54

**ITEM 614, MAINTAINING TRAFFIC (AT ALL TIMES)**

A MINIMUM OF TWO LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 60 CONSECUTIVE CALENDAR DAYS, WHEN ONE LANE MAY BE CLOSED AS SHOWN ON SHEET 9. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT SHOWN IN THE LANE VALUE CONTRACT PER DAY FOR EACH CALENDAR DAY TWO LANES IN EACH DIRECTION ARE NOT OPEN TO THE PUBLIC.

LANE VALUE CONTRACT TABLE			
DESCRIPTION OF CRITICAL LANE TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT
2 LANES OF SR-2	BEYOND 60 DAYS FOR ALLOWED FULL-TIME CLOSURE OF 1 LANE	EACH CALENDAR DAY	\$5,000

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

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.

**ITEM 614, REPLACEMENT DRUM**

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 6 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

**ITEM 614, REPLACEMENT SIGN**

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 3 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

**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.

**DELINEATION OF PORTABLE AND PERMANENT BARRIER**

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB OR PERMANENT BARRIER (INCLUDING BRIDGE PARAPETS) CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	39 EACH
ITEM 614, OBJECT MARKER, ONE-WAY	39 EACH
ITEM 614, INCREASED BARRIER BELINEATION	1938 FEET

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

**ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.


PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

**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 130 M. GAL.

DESIGN AGENCY



DESIGNER  
MAM

REVIEWER  
DAR 10-22-24

PROJECT ID  
120413

SHEET  
P.8

54



**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.

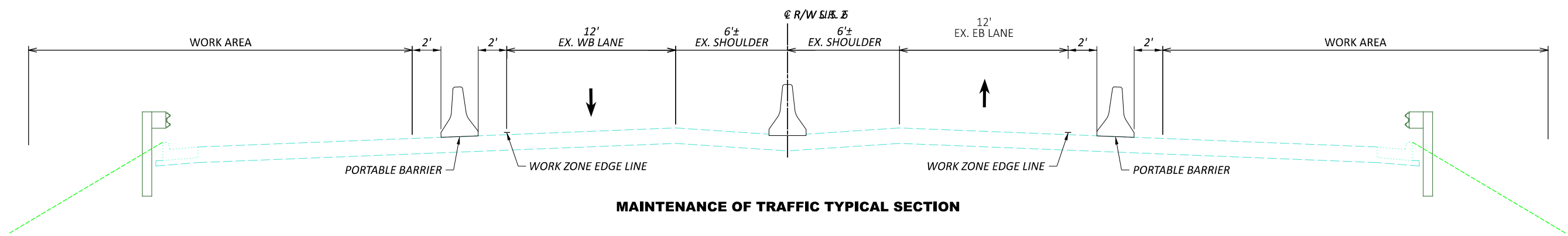
LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 16 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.

REF NO.	SHEET NO.	STATION TO STATION		SIDE	614	614	614	622
					WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE EDGE LINE, CLASS I, 6"	WORK ZONE DOTTED LINE, CLASS I	PORTABLE BARRIER, UNANCHORED
					EACH	MILE	FT	FT
EB SR 2								
EL-1	19-21	916+00.00	TO	924+75.00		0.17		
EL-2	21-24	924+75.00	TO	941+62.50		0.33		
DL-1	19-21	916+00.00	TO	923+38.00			748	
PB-1	22, 23	931+38.08	TO	934+00.00	1			237.5
PB-2	23, 24	934+00.00		941+62.50				762.5
WB SR 2								
EL-3	23-25	933+65.05	TO	945+69.14		0.23		
EL-4	26, 27	951+09.77	TO	956+34.14		0.10		
EL-5	27, 28	956+34.14	TO	964+14.14		0.15		
PB-3	23	933+65.05	TO	934+77.42				112.5
PB-4	23, 24	934+77.42	TO	939+64.65				487.5
PB-5	24, 25	939+64.65	TO	943+27.45	1			337.5
DL-3	25, 26	945+69.14	TO	951+09.77			541	
DL-4	28	956+34.14	TO	964+14.14			1305	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					<b>2</b>	<b>1.00</b>	<b>2594</b>	<b>1938</b>



**MAINTENANCE OF TRAFFIC TYPICAL SECTION**

DESIGN AGENCY

DESIGNER: DAR  
 REVIEWER: IB  
 PROJECT ID: 120413  
 SHEET: P.9  
 TOTAL: 54

**ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 4 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.) THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS

OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 6 SIGN MONTH ASSUMING 2 PCMS SIGN(S) FOR 3 MONTH(S)

DESIGN AGENCY



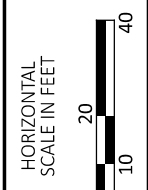
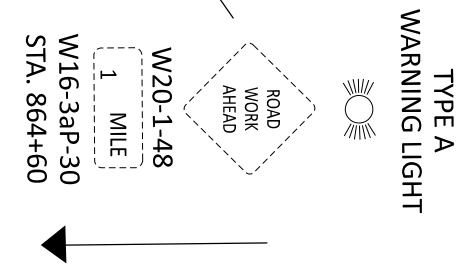
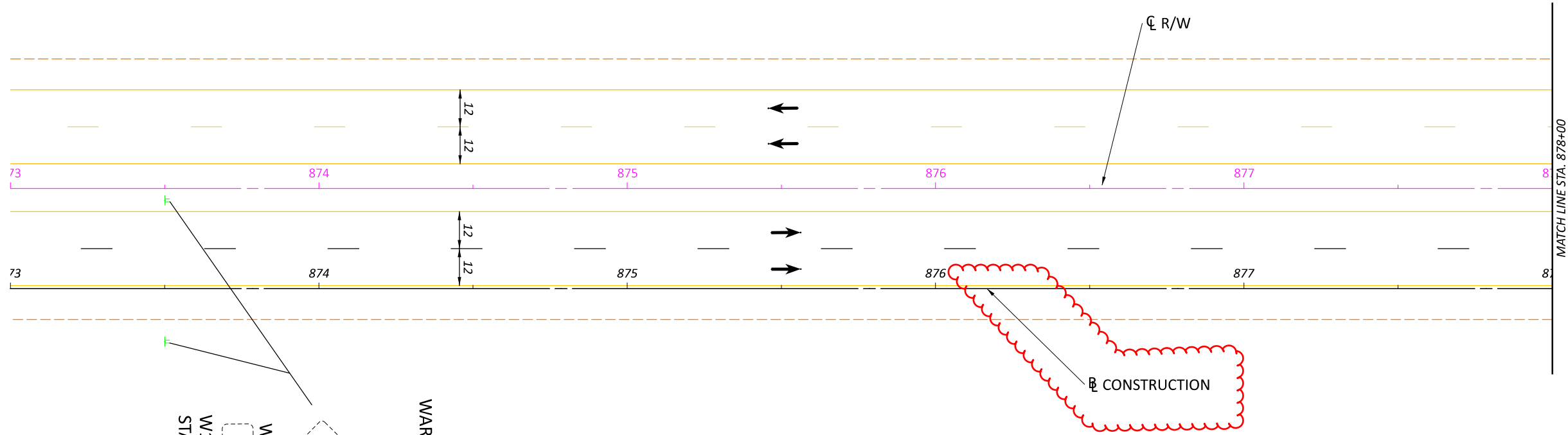
DESIGNER  
MAM

REVIEWER  
DAR 12-30-24

PROJECT ID  
120413

SHEET  
P.10

TOTAL  
54



MOT PLAN  
STA. 873+00 TO STA. 878+00

DESIGN AGENCY



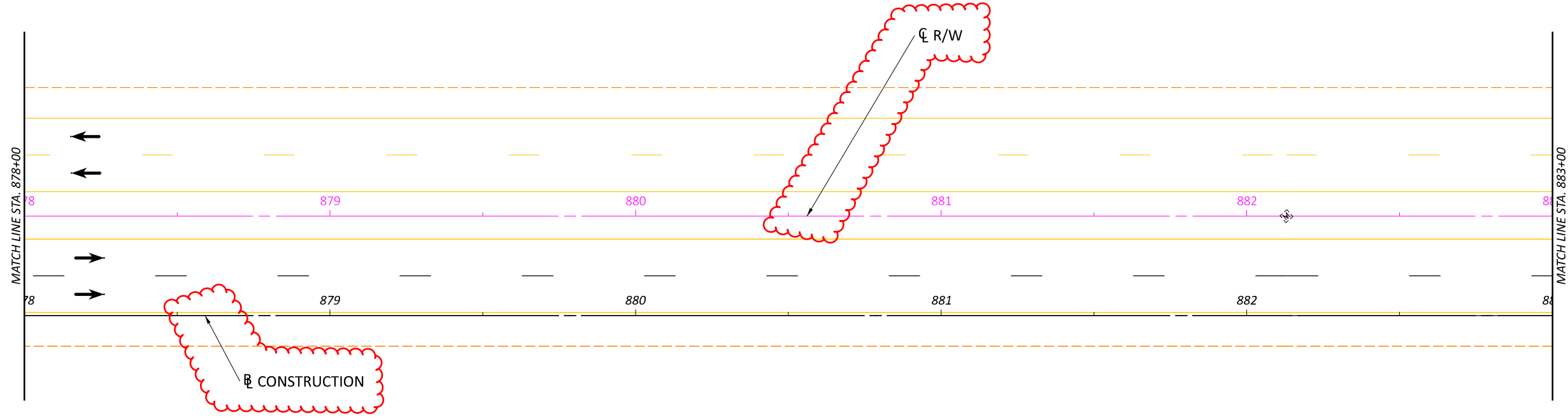
DESIGNER  
MAM

REVIEWER  
DAR 12-27-24

PROJECT ID  
120413

SHEET  
P.11

42



DESIGN AGENCY



DESIGNER  
MAM

REVIEWER  
DAR 12-27-24

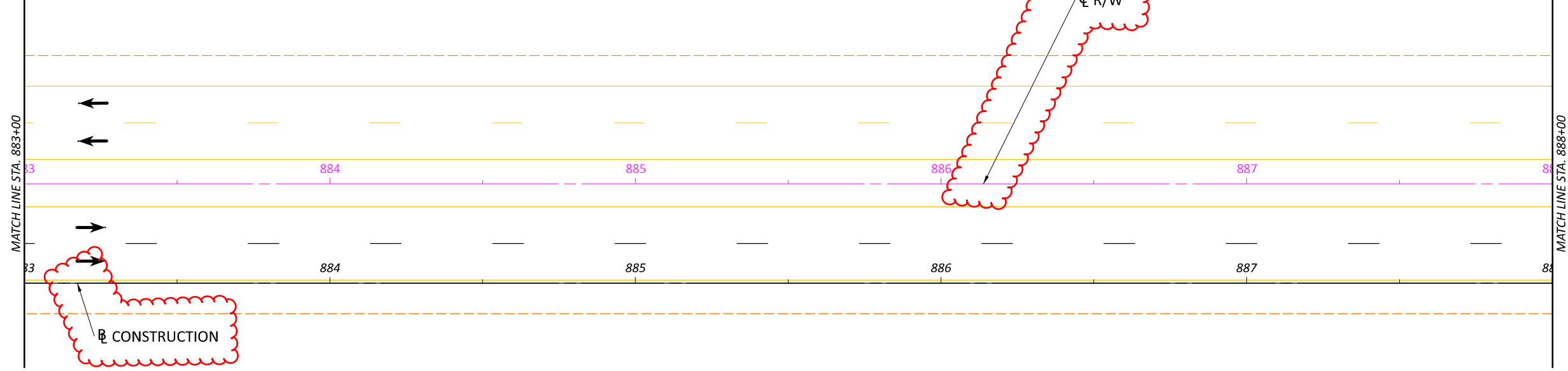
PROJECT ID  
120413

SHEET  
P.12

42

MOT PLAN  
STA. 878+00 TO STA. 883+00

HORIZONTAL  
SCALE IN FEET  
0 10 20 40

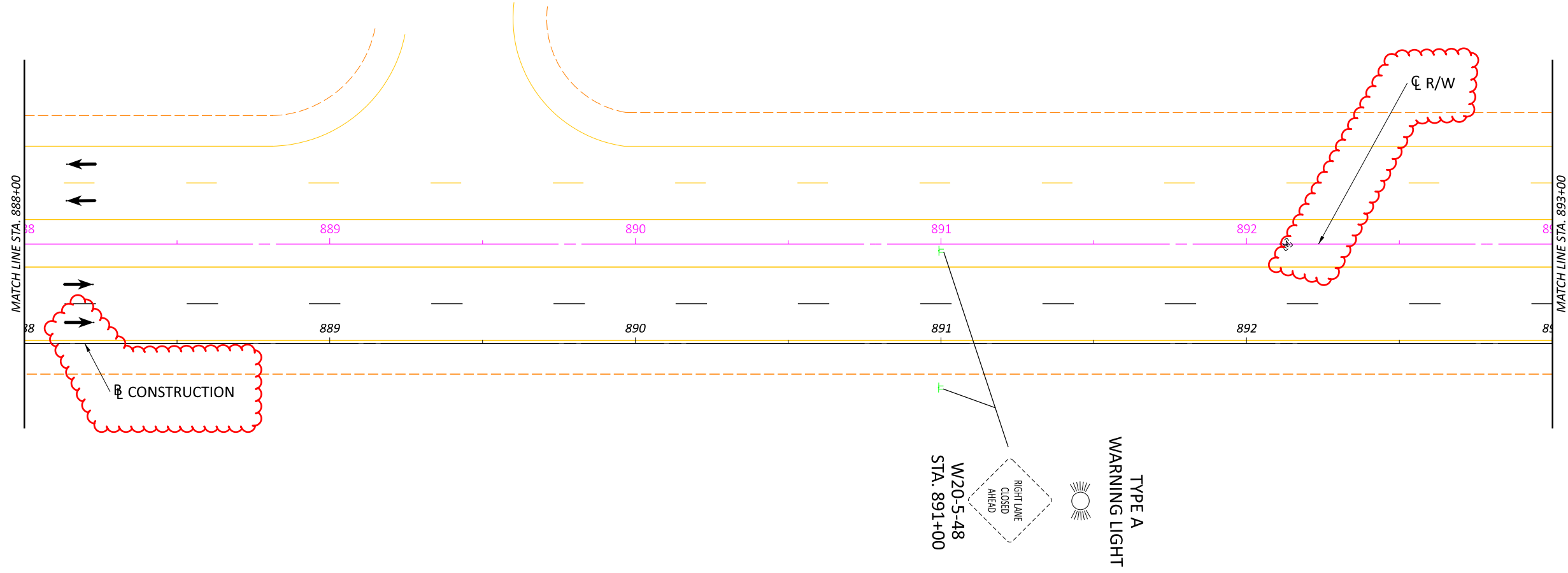


MOT PLAN  
STA. 883+00 TO STA. 888+00

DESIGN AGENCY



DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.13
	42



DESIGN AGENCY



DESIGNER  
**MAM**

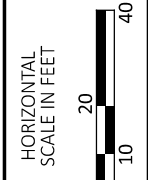
REVIEWER  
**DAR 12-27-24**

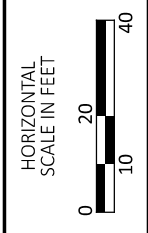
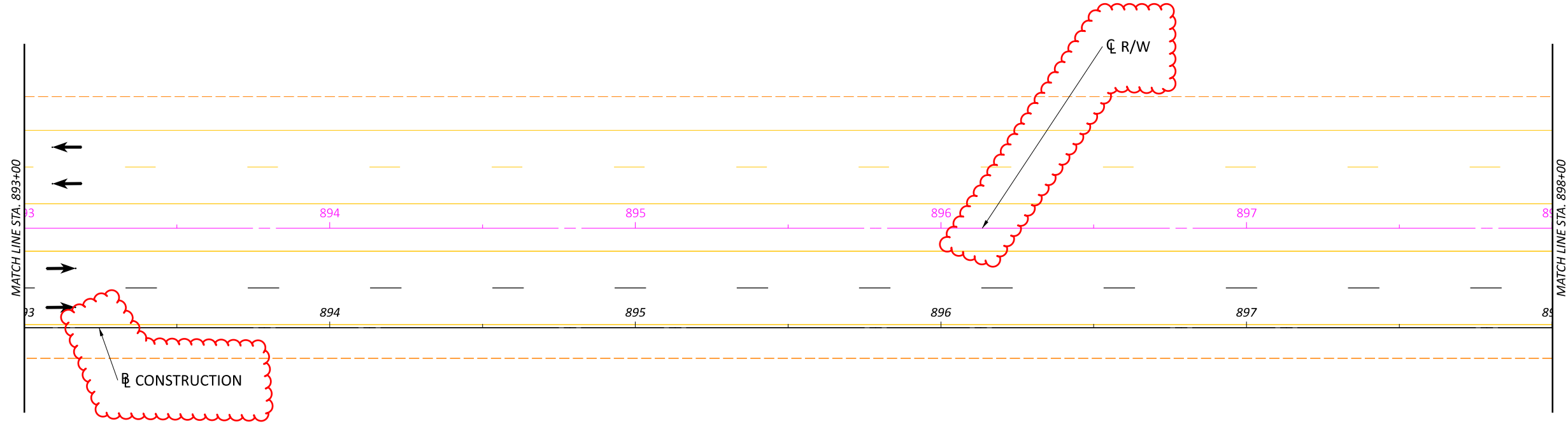
PROJECT ID  
**120413**

SHEET  
P.14

TOTAL  
42

**MOT PLAN**  
**STA. 888+00 TO STA. 893+00**





MOT PLAN  
STA. 893+00 TO STA. 898+00

DESIGN AGENCY



DESIGNER

MAM

REVIEWER

DAR 12-27-24

PROJECT ID

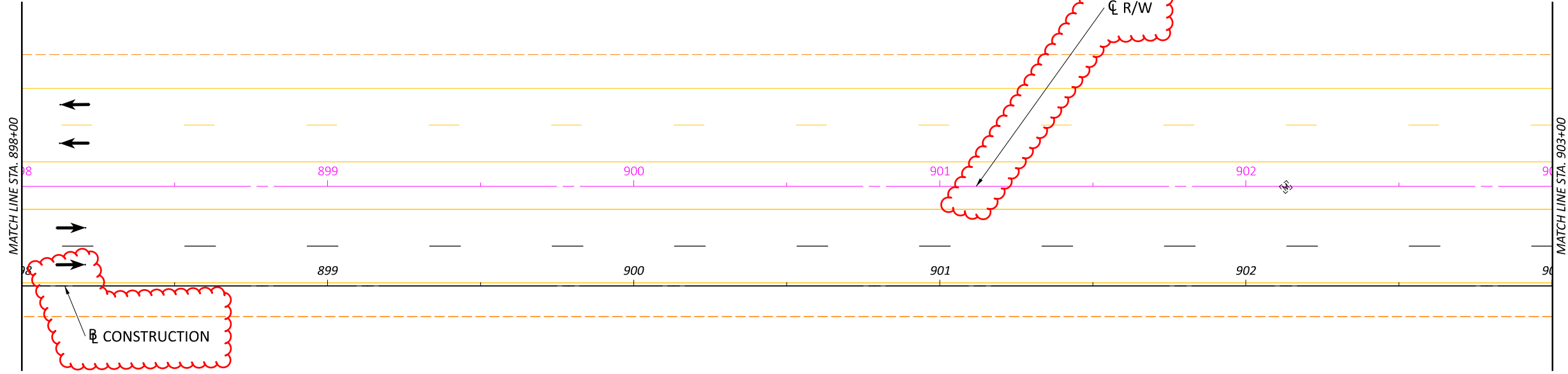
120413

SHEET

P.15

TOTAL

42



DESIGN AGENCY



DESIGNER  
MAM

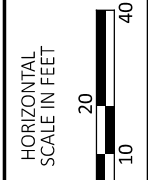
REVIEWER  
DAR 12-27-24

PROJECT ID  
120413

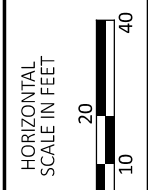
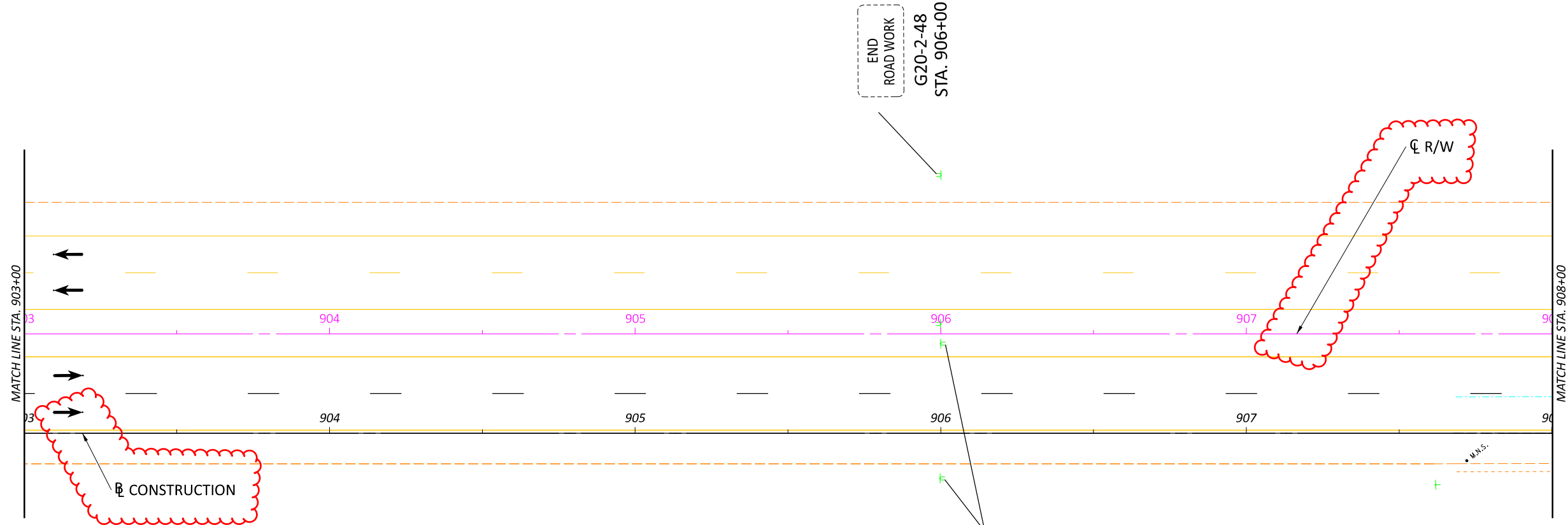
SHEET  
P.16

42

MOT PLAN  
STA. 898+00 TO STA. 903+00





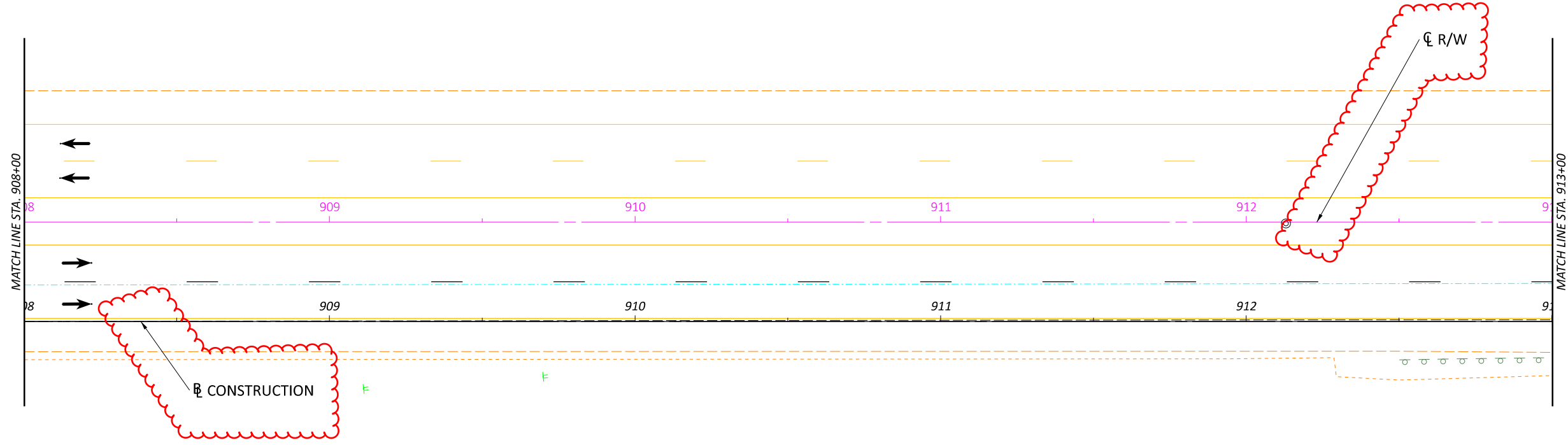


MOT PLAN  
STA. 903+00 TO STA. 908+00

DESIGN AGENCY



DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.17



DESIGN AGENCY



DESIGNER  
**MAM**

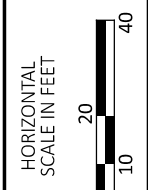
REVIEWER  
**DAR 12-27-24**

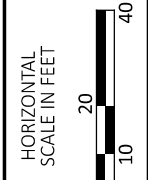
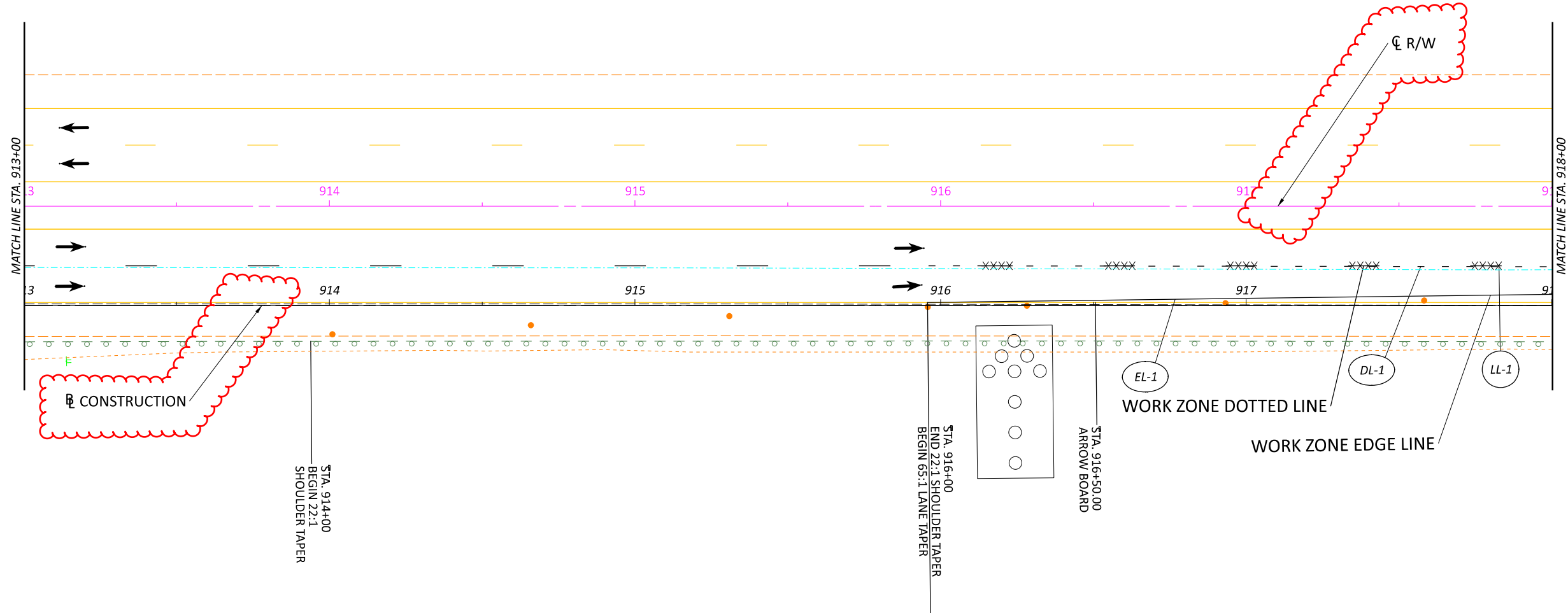
PROJECT ID  
**120413**

SHEET  
**P.18**

TOTAL  
**42**

**MOT PLAN**  
**STA. 908+00 TO STA. 913+00**



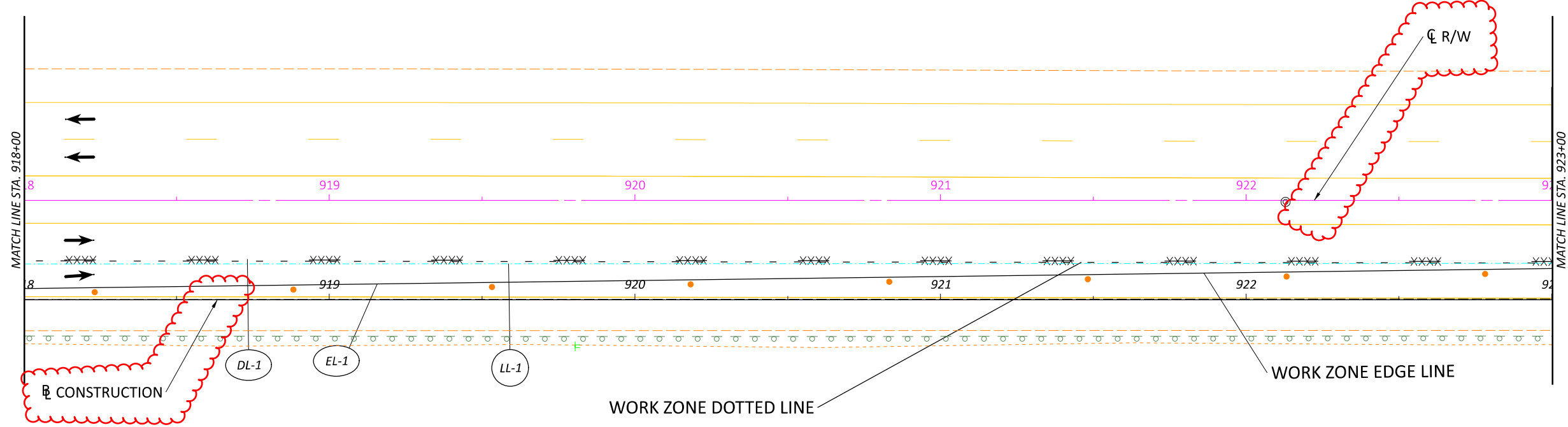


MOT PLAN  
STA. 913+00 TO STA. 918+00

DESIGN AGENCY



DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.19
TOTAL SHEETS	42



MOT PLAN  
STA. 918+00 TO STA. 923+00

DESIGN AGENCY



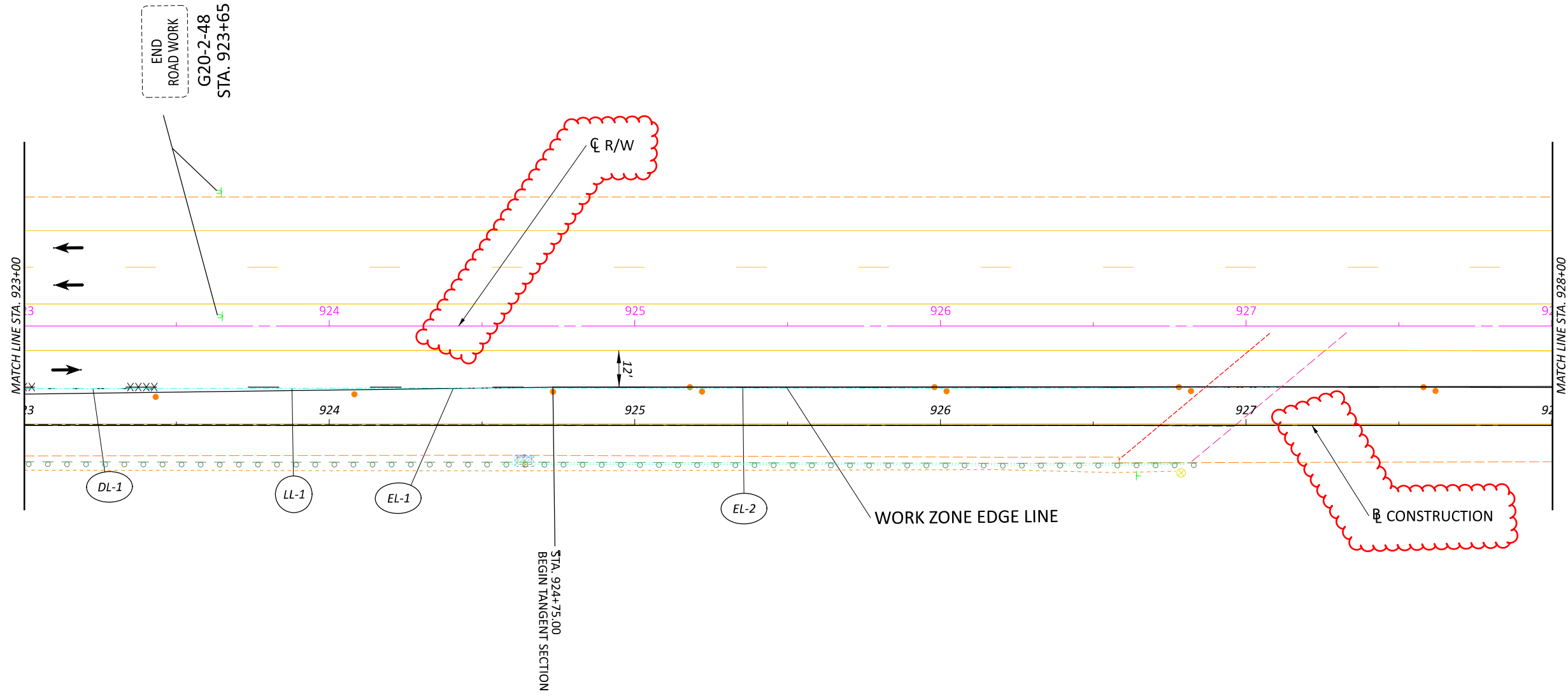
DESIGNER  
MAM

REVIEWER  
DAR 12-27-24

PROJECT ID  
120413

SHEET  
P.20

TOTAL  
42

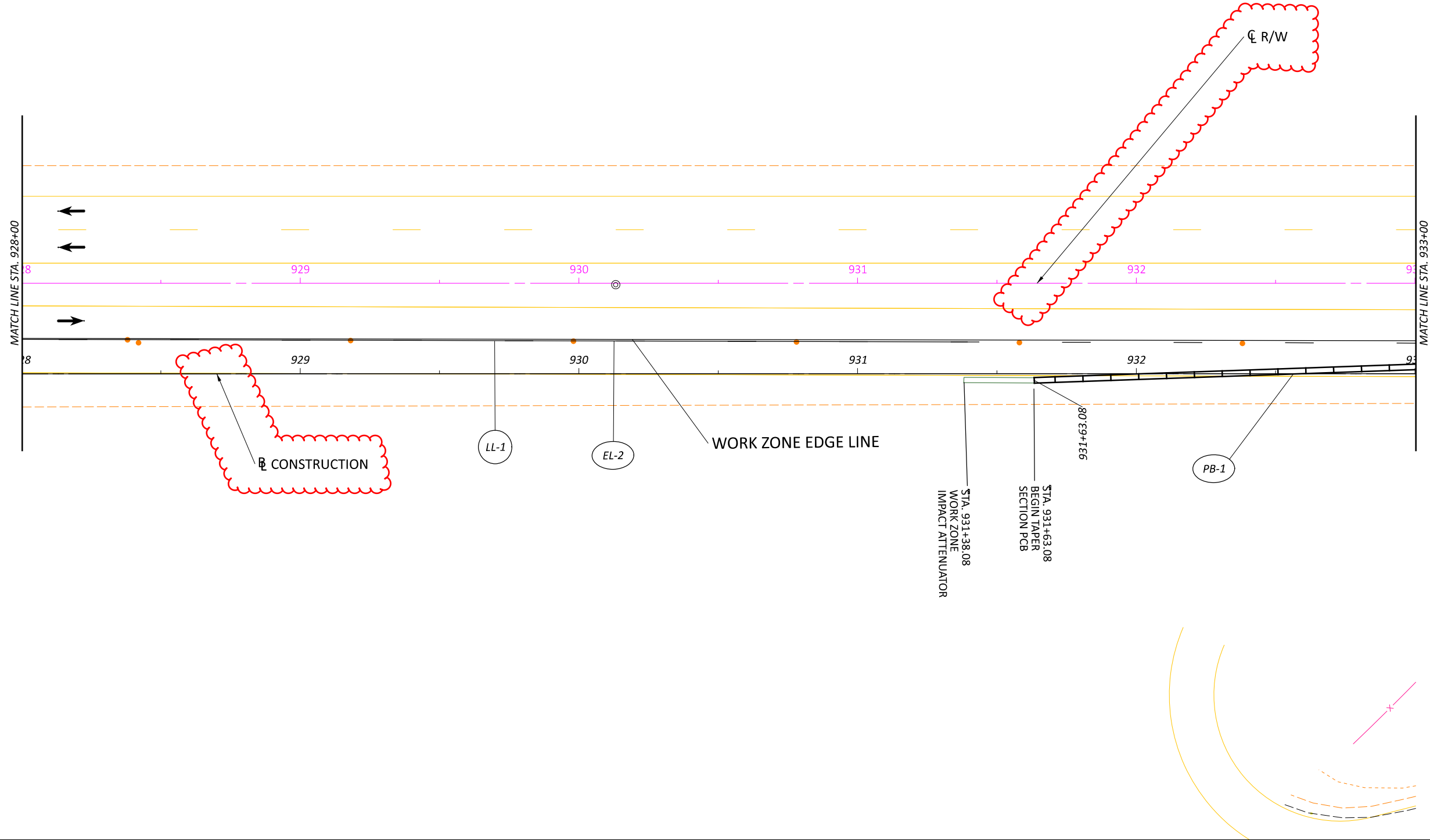


MOT PLAN  
STA. 923+00 TO STA. 928+00

DESIGN AGENCY



DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.21

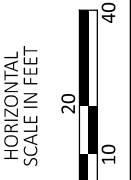
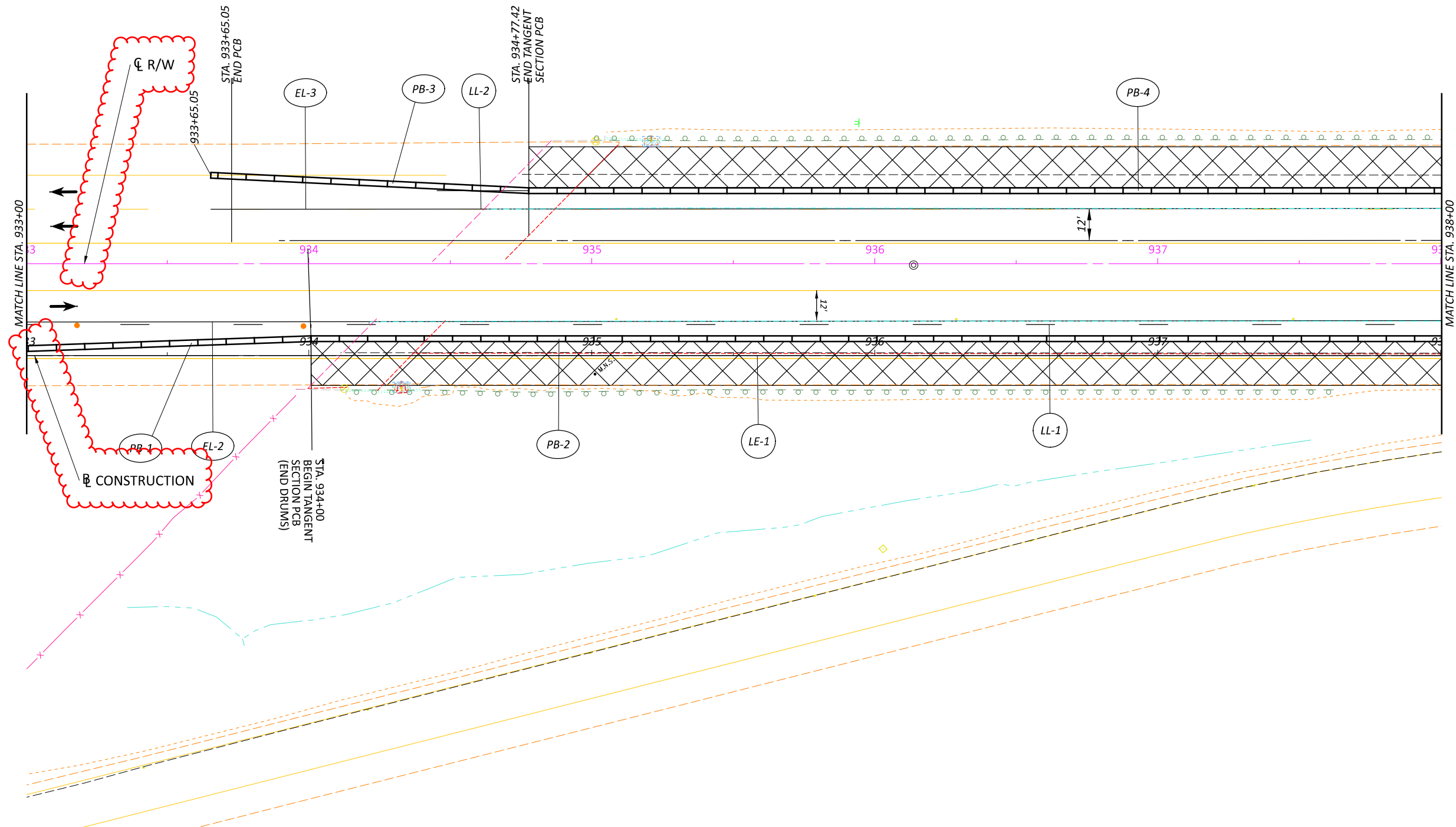


MOT PLAN  
STA. 928+00 TO STA. 933+00

DESIGN AGENCY	
DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.22
TOTAL	42

LEGEND

 WORK AREA



MOT PLAN  
STA. 933+00 TO STA. 938+00

DESIGN AGENCY

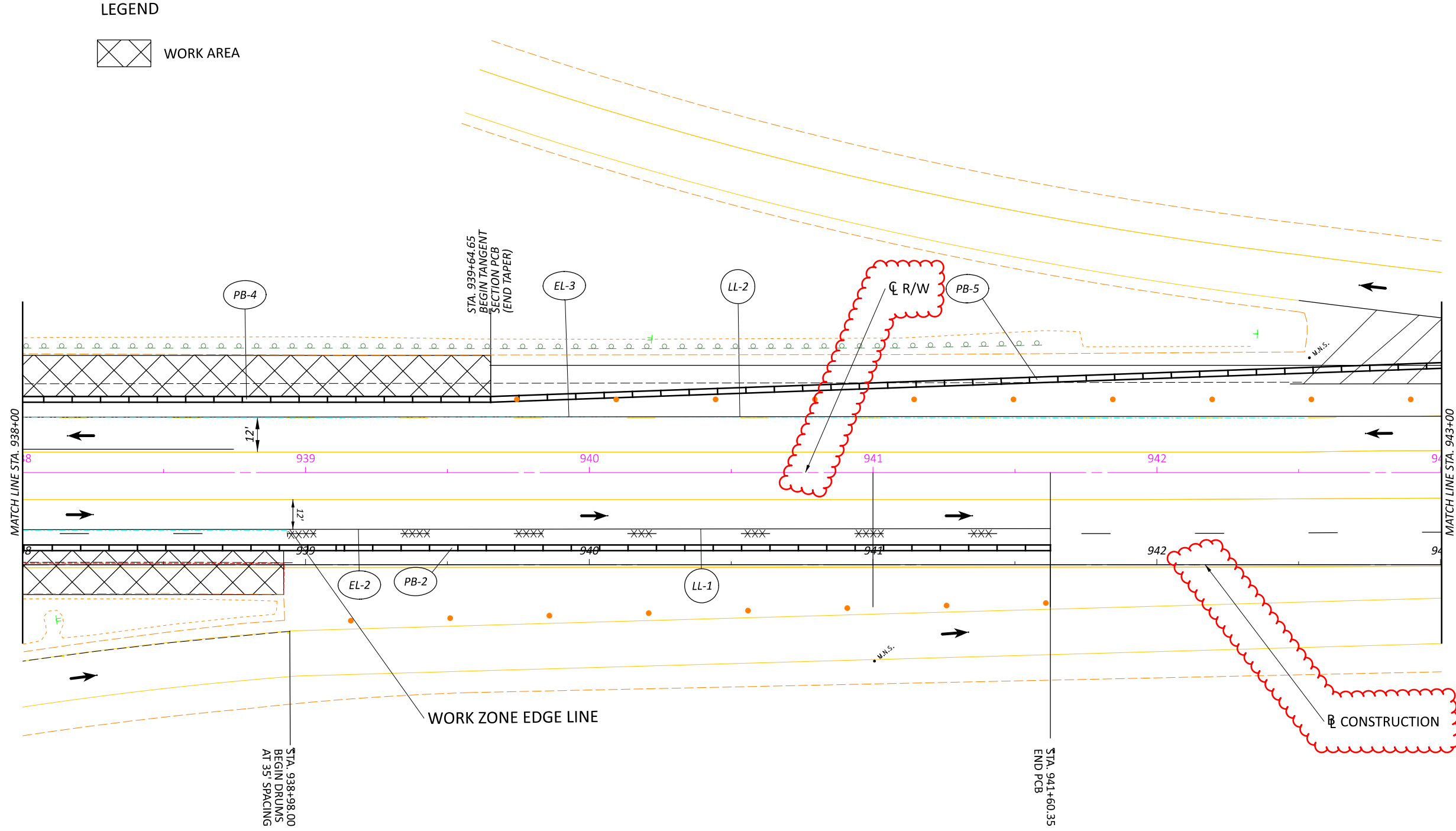


DESIGNER  
MAM

REVIEWER  
DAR 12-27-24

PROJECT ID  
120413

SHEET  
P.23 42



LEGEND

 WORK AREA



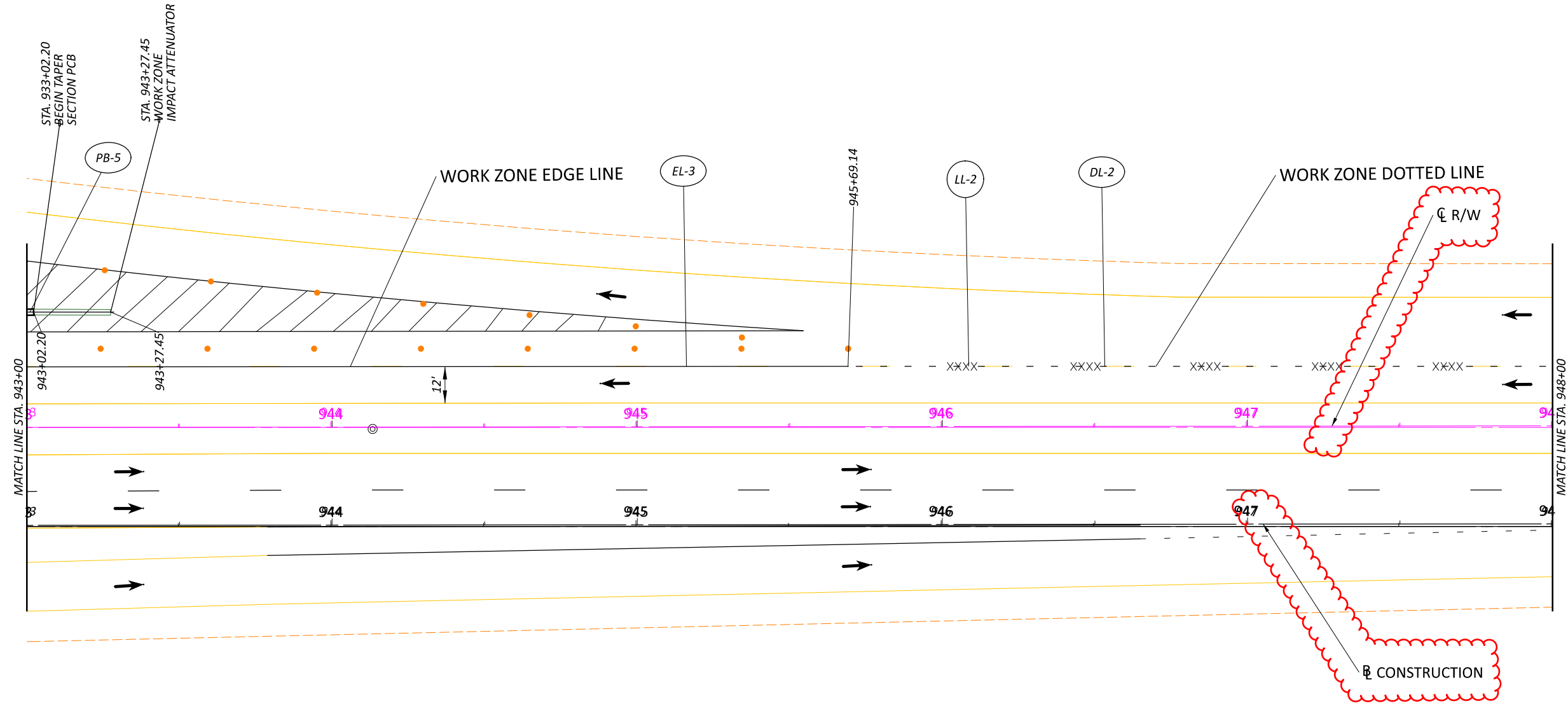
MOT PLAN  
STA. 938+00 TO STA. 943+00

DESIGN AGENCY



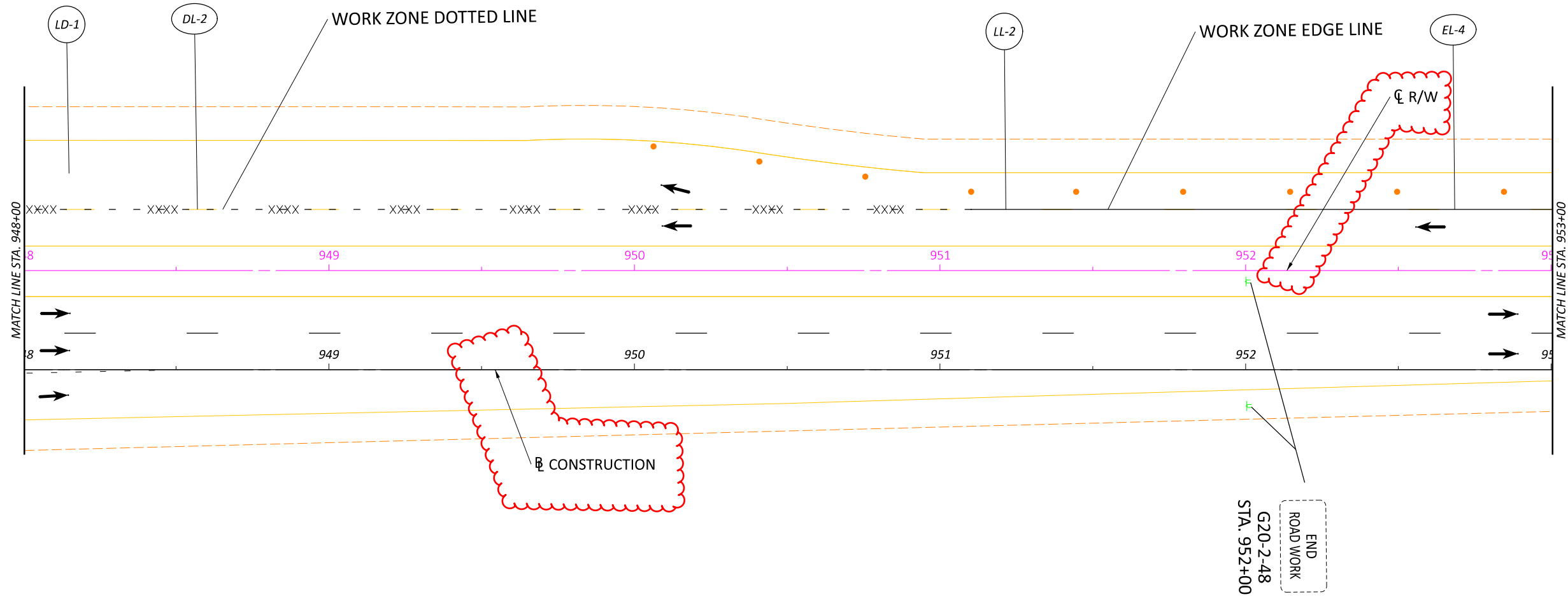
DESIGNER  
MAM  
REVIEWER  
DAR 12-27-24  
PROJECT ID  
120413  
SHEET  
P.24





MOT PLAN  
STA. 943+00 TO STA. 948+00

DESIGN AGENCY	
DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.25
	42



MOT PLAN  
STA. 948+00 TO STA. 953+00

DESIGN AGENCY



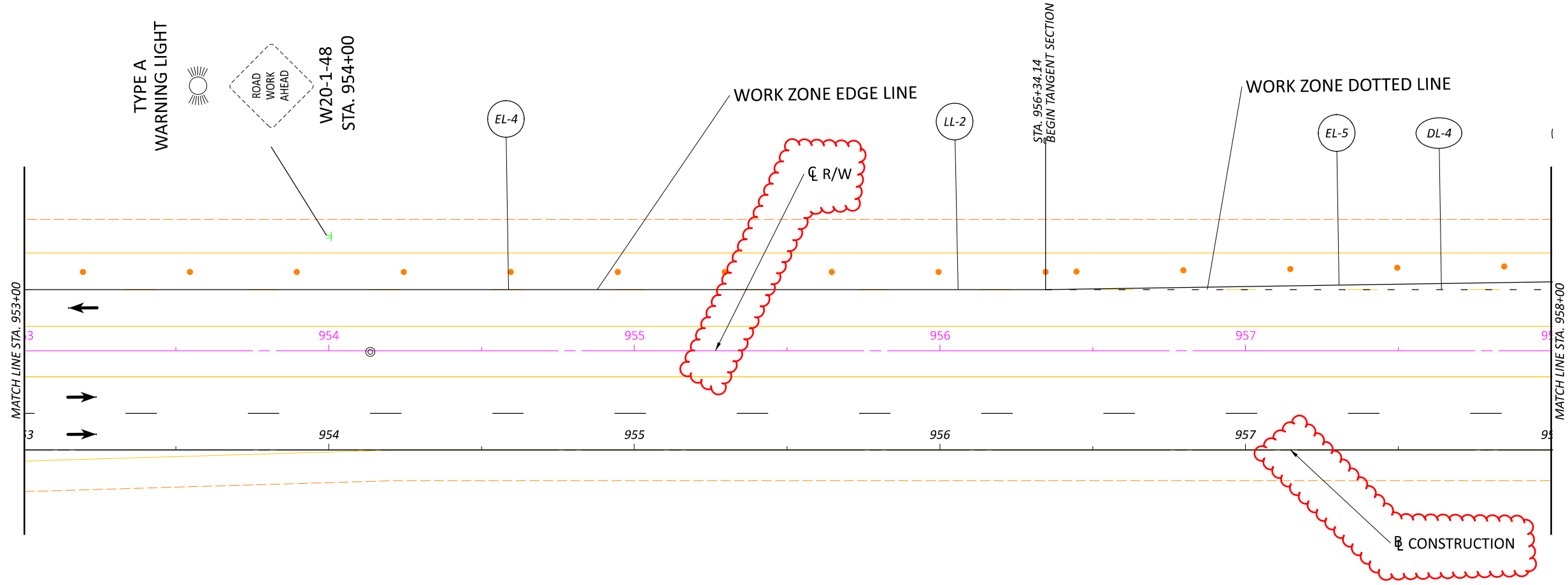
DESIGNER  
MAM

REVIEWER  
DAR 1-15-25

PROJECT ID  
120413

SHEET  
P.26

TOTAL  
42

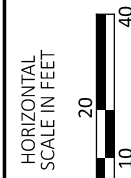
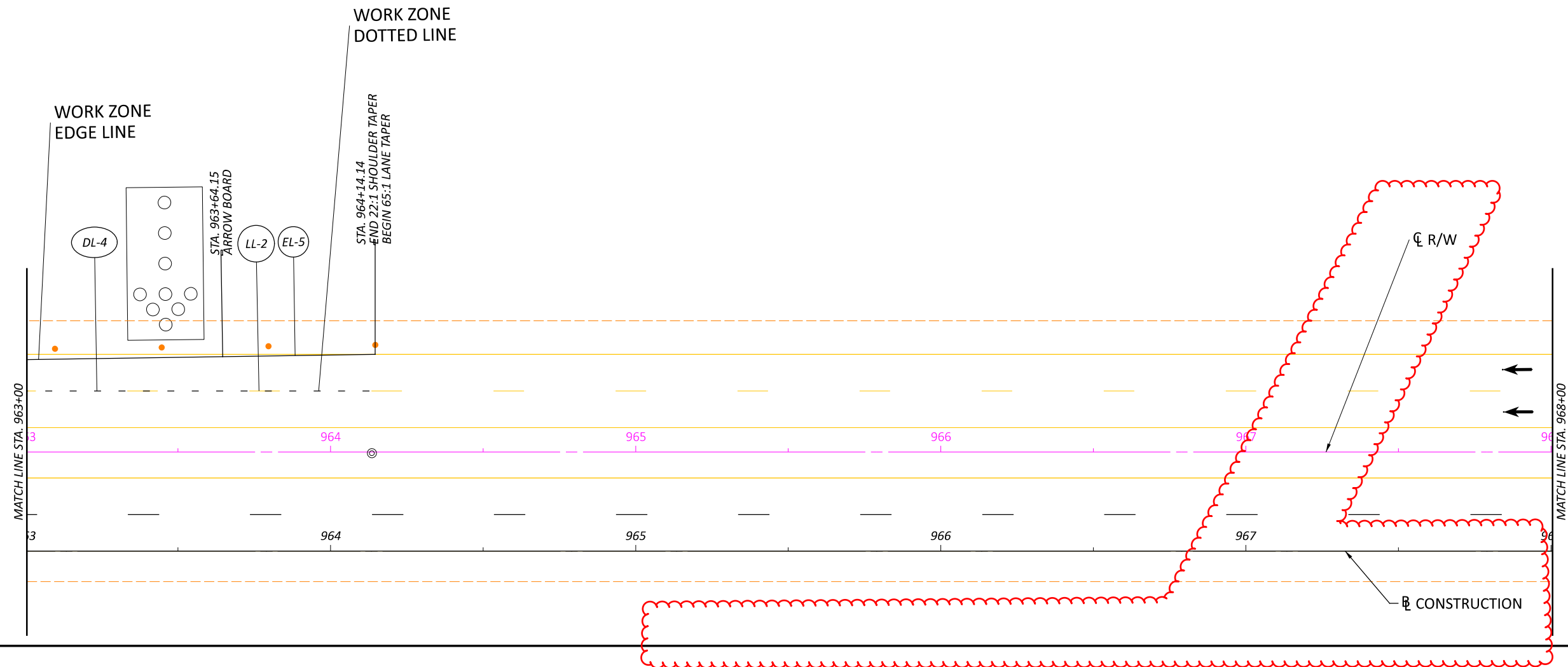
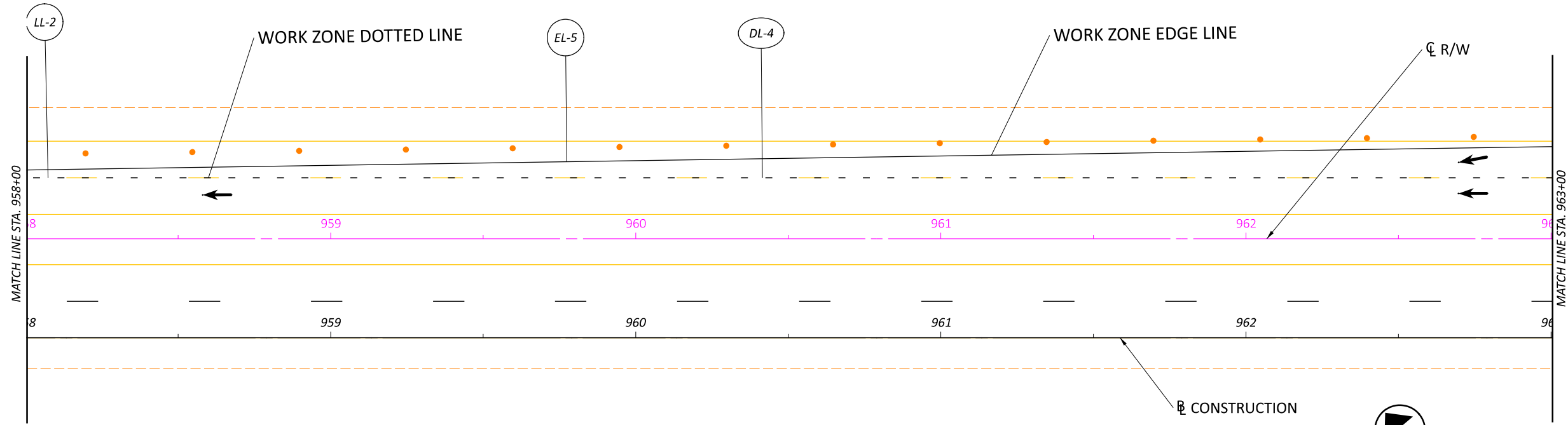


MOT PLAN  
STA. 953+00 TO STA. 958+00

DESIGN AGENCY



DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.27
TOTAL	42



MOT PLAN  
STA. 958+00 TO STA. 968+00

DESIGN AGENCY

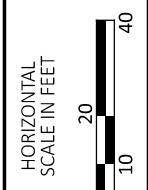
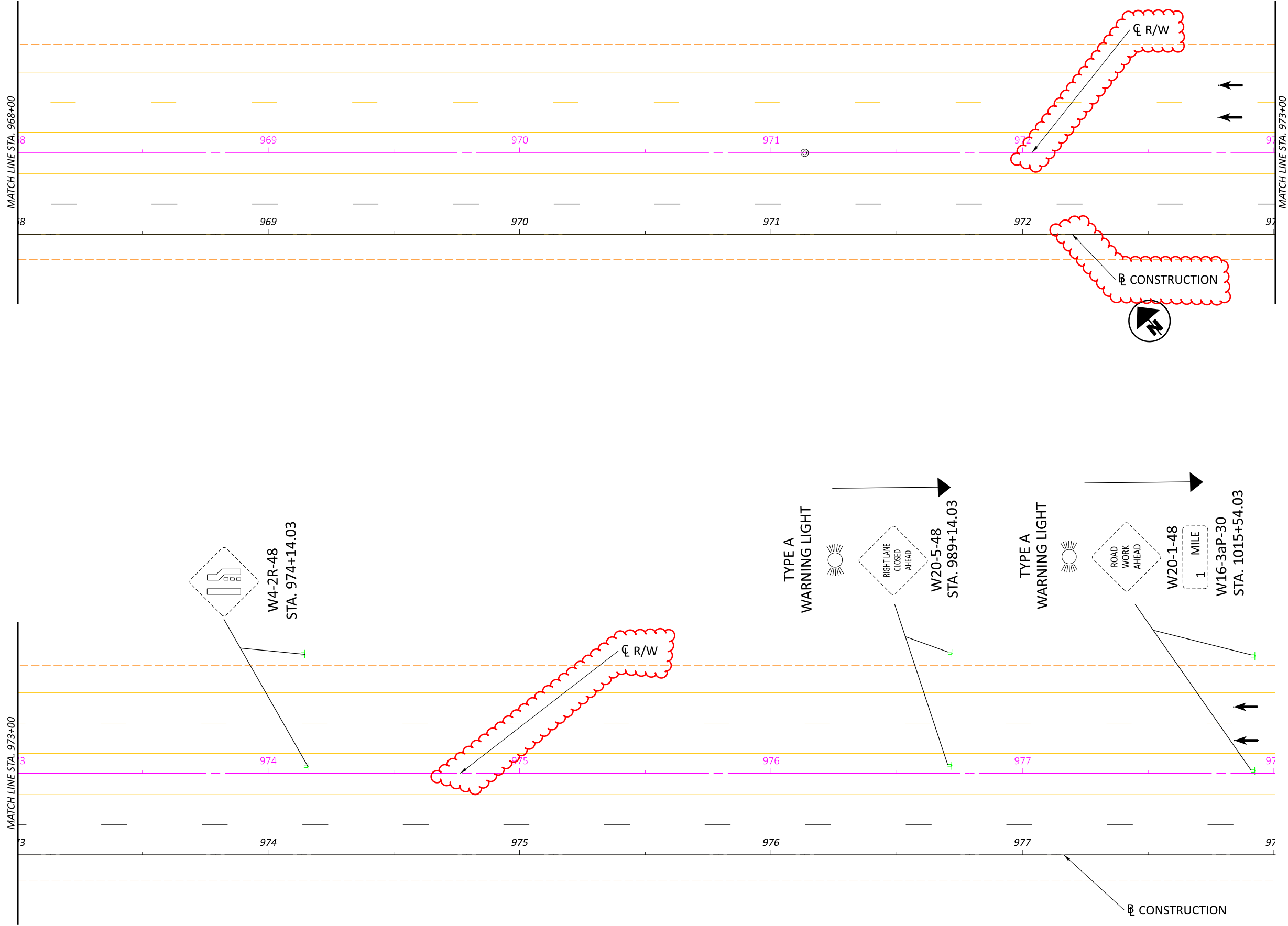


DESIGNER  
MAM

REVIEWER  
DAR 1-2-25

PROJECT ID  
120413

SHEET P.28 TOTAL 42



MOT PLAN  
 STA. 968+00 TO STA. 978+00


DESIGN AGENCY



DESIGNER	MAM
REVIEWER	DAR 1-7-25
PROJECT ID	120413
SHEET	P.29
TOTAL	42

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
6	8	9	10	32	33	34	35					01/NHS/66	EXT	TOTAL				
ROADWAY																		
LS						60						LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	6
												60	202	23000	60	SY	PAVEMENT REMOVED	
137.5												137.5	202	30701	137.5	FT	CONCRETE BARRIER REMOVED, AS PER PLAN	6
					18							18	202	32000	18	FT	CURB REMOVED	
					60							60	202	35100	60	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
					325							325	202	38000	325	FT	GUARDRAIL REMOVED	
					570							570	202	38200	570	FT	GUARDRAIL REMOVED FOR REUSE	
					1							1	202	42806	1	EACH	ANCHOR ASSEMBLY REMOVED FOR REUSE, TYPE T	
					2							2	202	47200	2	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED FOR REUSE	
1												1	202	47801	1	EACH	IMPACT ATTENUATOR REMOVED, AS PER PLAN	6
						1						1	202	58100	1	EACH	CATCH BASIN REMOVED	
LS												LS	202	98000	LS		REMOVAL MISC., TRAFFIC DRUMS	6
					380							380	202	98200	380	FT	REMOVAL MISC., UNDERDRAIN	7
				3,290								3,290	203	10000	3,290	CY	EXCAVATION	
				3,290								3,290	203	20001	3,290	CY	EMBANKMENT, AS PER PLAN	7
				165								165	203	35110	165	CY	GRANULAR MATERIAL, TYPE B	
				438								438	203	35130	438	CY	GRANULAR MATERIAL, TYPE D	
				402								402	203	40001	402	CY	BORROW, AS PER PLAN	7
						606						606	204	10000	606	SY	SUBGRADE COMPACTION	
						202						202	204	13000	202	CY	EXCAVATION OF SUBGRADE	
						202						202	204	30020	202	CY	GRANULAR MATERIAL, TYPE C	
						606						606	204	50000	606	SY	GEOTEXTILE FABRIC	
					325							325	606	15050	325	FT	GUARDRAIL, TYPE MGS	
					570							570	606	16050	570	FT	GUARDRAIL REBUILT, TYPE MGS	
					1							1	606	27910	1	EACH	ANCHOR ASSEMBLY REBUILT, MGS TYPE T	
						1						1	606	35012	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY REBUILT, TYPE 1	
						1						1	606	35112	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY REBUILT, TYPE 2	
EROSION CONTROL																		
					617							617	601	21060	617	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	5
					7							7	601	32204	7	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
					462							462	659	00300	462	CY	TOPSOIL	
					4,129							4,129	659	00530	4,129	SY	SEEDING AND MULCHING, CLASS 3B	
					214							214	659	14000	214	SY	REPAIR SEEDING AND MULCHING	
					0.61							0.61	659	20000	0.61	TON	COMMERCIAL FERTILIZER	
					22							22	659	35000	22	MGAL	WATER	
3,650												3,650	671	15050	3,650	SY	EROSION CONTROL MAT, TYPE F	
												40,000	832	30000	40,000	EACH	EROSION CONTROL	
DRAINAGE																		
					0.21							0.21	602	20000	0.21	CY	CONCRETE MASONRY	
					65							65	611	05200	65	FT	12" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21	
					1							1	611	98370	1	EACH	CATCH BASIN, NO. 6	
PAVEMENT																		
						394						394	252	01500	394	FT	FULL DEPTH PAVEMENT SAWING	
						70						70	301	56000	70	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
						91						91	304	20000	91	CY	AGGREGATE BASE	
						82						82	407	10000	82	GAL	TACK COAT	
						35						35	442	22100	35	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)	
					846							846	609	23000	846	FT	COMBINATION CURB AND GUTTER, TYPE 4	
					45							45	609	23001	45	FT	COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN	5, 7
						193						193	875	10000	193	LB	LONGITUDINAL JOINT ADHESIVE	


GENERAL SUMMARY

DESIGN AGENCY  
  
 DESIGNER  
**MAM**  
 REVIEWER  
**DAR** 1-17-25  
 PROJECT ID  
**120413**  
 SHEET  
**P.30** TOTAL  
**54**



STATION RANGE			SHEET NUMBER	SIDE	DISTANCE (D)	EXCAVATION -END AREA	EMBANKMENT -END AREA	GRANULAR MATERIAL, TYPE B END AREA	GRANULAR MATERIAL, TYPE D END AREA	203	203	203	659	659	659	659	203	203	
										EXCAVATION	EMBANKMENT, AS PER PLAN	BORROW, AS PER PLAN	SEEDING AND MULCHING	TOPSOIL	REPAIR SEEDING AND MULCHING	COMMERCIAL FERTILIZER	WATER	GRANULAR MATERIAL, TYPE B	GRANULAR MATERIAL, TYPE D
					FT	SF	SF	SF	SF	CY	CY	CY	SY	CY	SY	TON	MGAL	CY	CY
934+00.00	TO	934+10.26	37, 38	RT	10.26	386.85	478.15	16.73	47.19	74	91	17	63	7	4	0.01	0.34	4	9
934+10.26	TO	934+50.00	38	RT	39.74	408.39	431.89	15.95	44.85	586	670	84	426	48	22	0.06	2.30	25	68
934+50.00	TO	935+00.00	38, 39	RT	50.00	304.64	370.84	13.93	38.78	661	744	83	466	52	24	0.07	2.52	28	78
935+00.00	TO	935+50.00	39	RT	50.00	233.44	299.74	11.15	30.45	499	621	122	431	48	22	0.06	2.33	24	65
935+50.00	TO	936+00.00	39, 40	RT	50.00	172.54	224.62	8.17	21.50	376	486	110	386	43	20	0.06	2.08	18	49
936+00.00	TO	936+50.00	40	RT	50.00	202.56	216.21	9.80	26.41	348	409	61	342	38	18	0.05	1.85	17	45
936+50.00	TO	937+00.00	40, 41	RT	50.00	149.09	144.21	7.24	18.72	326	334	8	274	31	14	0.04	1.48	16	42
937+00.00	TO	937+50.00	41	RT	50.00	100.13	74.94	7.65	19.95	231	203	-28	203	23	11	0.03	1.10	14	36
937+50.00	TO	938+00.00	41, 42	RT	50.00	51.27	34.23	5.75	14.26	141	102	-39	144	16	8	0.02	0.78	13	32
938+00.00	TO	938+50.00	42	RT	50.00	0.00	0.00	0.00	0.00	48	32	-16	60	7	3	0.01	0.32	6	14
MISC.																			
WB EARTH DISTURBED																			
AROUND TIED-BLOCK MATS																			
TB-4	AT	STA. 935+61.81	36	LT	60' X 85'								567	63	29	0.08	3.06		
TB-5	AT	STA. 937+77.20	36	LT	60' X 70'								467	52	24	0.07	2.52		
TB-6	AT	STA. 960+14.77	36	LT	60' X 45'								300	34	15	0.05	1.62		
BORROW DEDUCTION																			
SUBTOTALS										3290	3290	402	4129	462	214	0.61	22	165	438
TOTALS CARRIED TO GENERAL SUMMARY										3290	3290	402	4129	462	214	0.61	23	165	438

EARTHWORK SUBSUMMARY


DESIGN AGENCY	
DESIGNER	MAM
REVIEWER	DAR
PROJECT ID	120413
SHEET	P.32
	54



SHEET NO.	REF NO.	STATION TO STATION	SIDE	202	202	202	202	202	202	202	202	606	606	606	606	606	609	609	601	601	611	611	602
				CURB REMOVED FT	PIPE REMOVED, 24" AND UNDER FT	GUARDRAIL REMOVED FT	GUARDRAIL REMOVED FOR REUSE, TYPE T FT	ANCHOR ASSEMBLY REMOVED FOR REUSE EACH	BRIDGE TERMINAL ASSEMBLY REMOVED FOR REUSE EACH	CATCH BASIN REMOVED EACH	REMOVAL MISC.; UNDERDRAIN FT	GUARDRAIL, TYPE MGS FT	GUARDRAIL REBUILT, TYPE MGS FT	ANCHOR ASSEMBLY REBUILT, MGS TYPE T EACH	MGS BRIDGE TERMINAL ASSEMBLY REBUILT, TYPE 1 EACH	MGS BRIDGE TERMINAL ASSEMBLY REBUILT, TYPE 2 EACH	COMBINATION CURB AND GUTTER, TYPE 4 FT	COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN FT	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT SY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	12" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21 FT	CATCH BASIN, NO. 6 EACH	CONCRETE MASONRY CY
EB SR 2																							
36	GA-1	937+66.00	RT					1						1									
36	BT-1	934+10.00	RT						1						1								
36	C-1	934+10.26 TO 938+00.00	RT	18												374							
36	GR-1	934+10.00 TO 937+90.00	RT			325						325											
36	TB-1	934+24.96 TO 934+44.96	RT															8	166.76				
36	TB-2	935+93.45 TO 936+13.45	RT														8	103.71					
36	TB-3	937+90.00 TO 938+10.00	RT													6.5	25.85						
36	D-1		RT		60				1												65	1	0.21
36	RC-1		RT																		6.81		
36	UD-1	934+20.00 TO 938+00.00	RT							380													
WB SR 2																							
36	BT-2	935+20.00	LT						1						1								
36	GR-2	935+25.71 TO 940+70.00	LT				570					570											
36	C-2	935+25.71 TO 940+14.77	LT													472							
36	TB-4	935+51.81 TO 935+71.81	LT															8	145.20				
36	TB-5	937+67.29 TO 937+87.29	LT														8	121.83					
36	TB-6	940+04.77 TO 940+24.77	LT													6.5	53.36						
TOTALS CARRIED TO GENERAL SUMMARY				18	60	325	570	1	2	1	380	325	570	1	1	1	846	45	617	7	65	1	0.21

ROADWAY AND DRAINAGE SUBSUMMARIES

DESIGN AGENCY



DESIGNER  
MAM

REVIEWER  
DAR 1-16-25

PROJECT ID  
120413

SHEET  
P.33 54

STATION RANGE	SIDE	DISTANCE (D) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=DxW/9 SY	202	204	252	301	304	407	407	442	875	204	204	204			
					PAVEMENT REMOVED SY	SUBGRADE COMPACTION SY	FULL DEPTH PAVEMENT SAWING FT	ASPHALT CONCRETE BASE, PG64-22, (449) CY	AGGREGATE BASE CY	TACK COAT, (0.055 GAL/SYD) GAL	TACK COAT, (0.085 GAL/SYD) GAL	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449) CY	LONGITUDINAL JOINT ADHESIVE LB	EXCAVATION OF SUBGRADE CY	GRANULAR MATERIAL, TYPE C CY	GEOTEXTILE FABRIC SY			
EASTBOUND STATE ROUTE 2																			
WEDGE (442, 301)																			
934+22.71	TO	934+34.96	RT	12.25	5.10	6.93													
WEDGE (304)																			
934+22.71	TO	934+34.96	RT	12.25	6.60	8.98			1.50										
WEDGE (204 - UNDERCUT)																			
934+22.71		934+34.96		12.25	7.35	10.00			10.00					3.33	3.33	10.00			
FULL TYPICAL WIDTH (442, 301)																			
934+34.96	TO	938+00.00	RT	365.04	10.19	413.31													
FULL TYPICAL WIDTH (304)																			
934+34.96		938+00.00	RT	365.04	13.19	534.99			89.17										
FULL TYPICAL WIDTH (204 - UNDERCUT)																			
934+34.96		938+00.00	RT	365.04	14.69	595.83			595.83					198.61	198.61	595.83			
SUBTOTALS					60.45	605.83	394.49	70.05	90.67	46.22	35.72	35.02		192.95	201.94	201.94	605.83		
TOTALS CARRIED TO GENERAL SUMMARY					60	606	394	70	91	46	36	35		193	202	202	606		

PAVEMENT SUBSUMMARY

DESIGN AGENCY



DESIGNER  
MAM


REVIEWER  
DAR 1-17-25

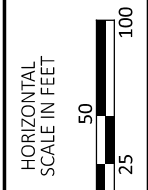
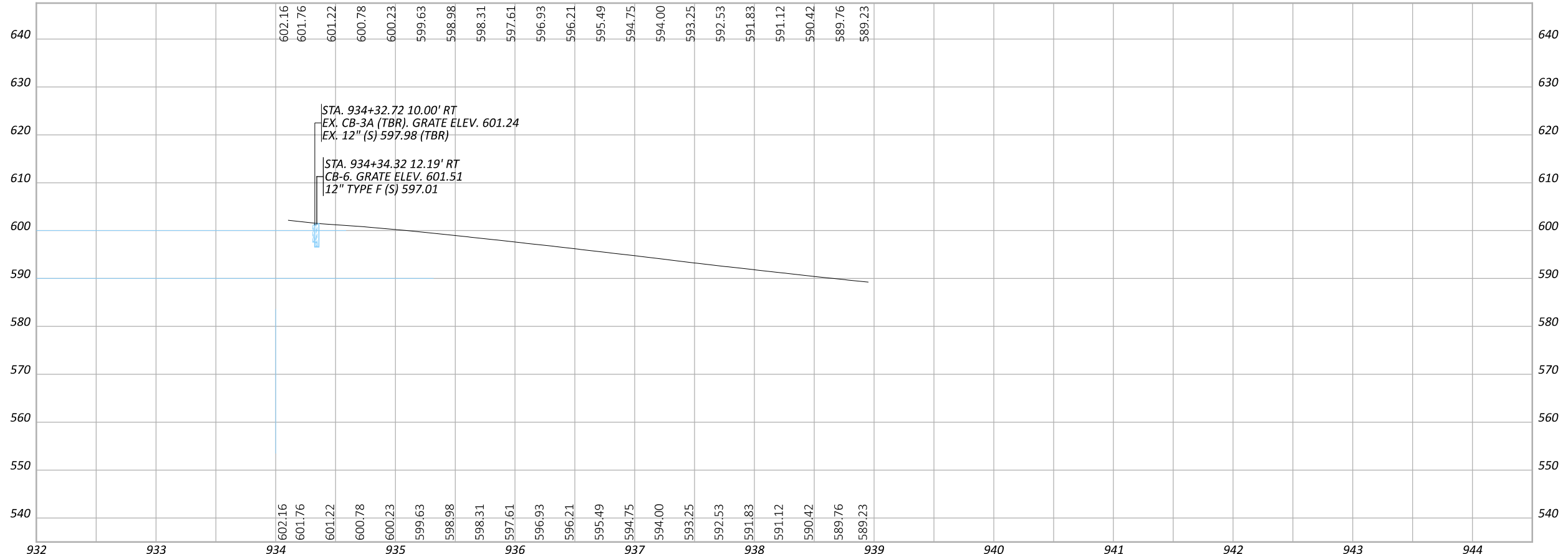
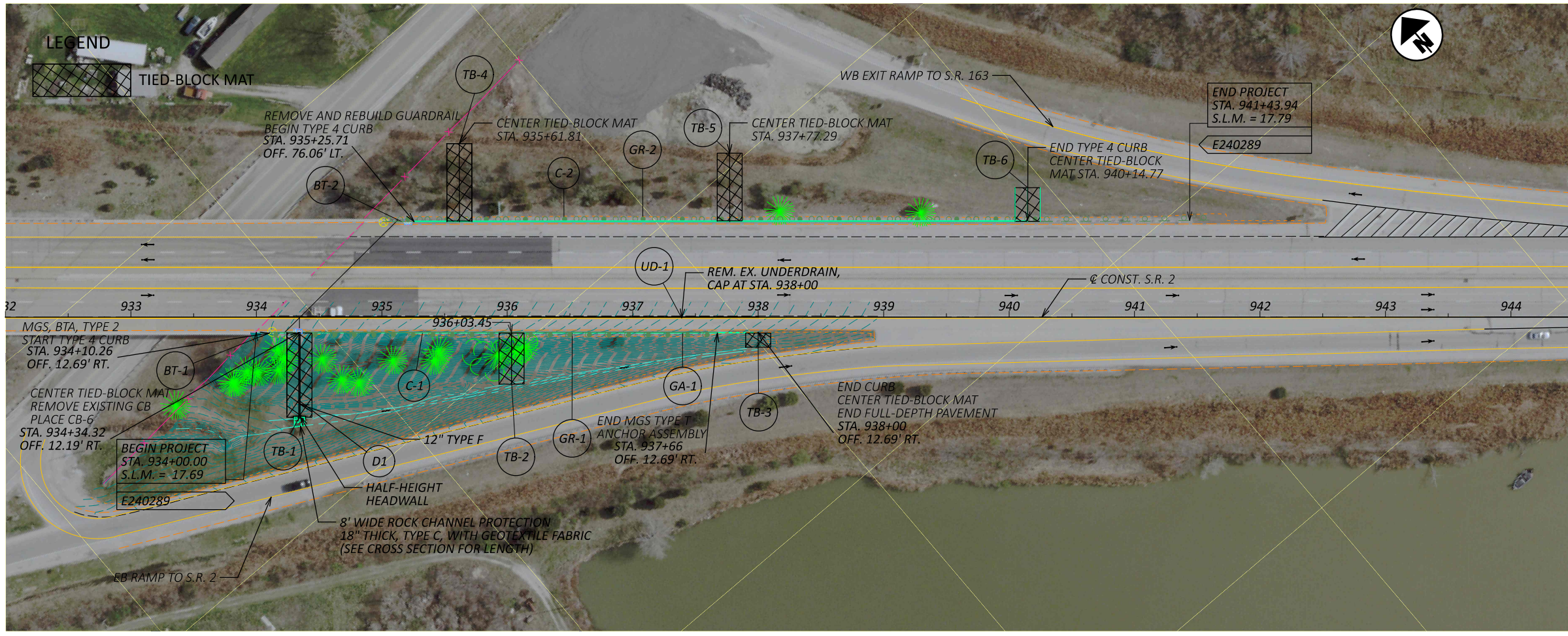
PROJECT ID  
120413

SHEET  
P.34

SHEET NO.	REF NO.	LOCATION	STATION TO STATION		642										
					EDGE LINE, 6", TYPE 1, WHITE	DOTTED LINE, 6", TYPE 1	LANE LINE, 6", TYPE 1								
					MILE	FT	MILE								
	LL-1	EB SR 2	916+00	TO 941+61			0.49								
	LL-2	WB SR 2	933+65	TO 964+14			0.58								
	LD-1	WB SR 2	945+55	TO 951+05		550									
	LE-1	EB SR 2	934+20	TO 939+00	0.1										
TOTALS CARRIED TO GENERAL SUMMARY					0.10	550	1.07								

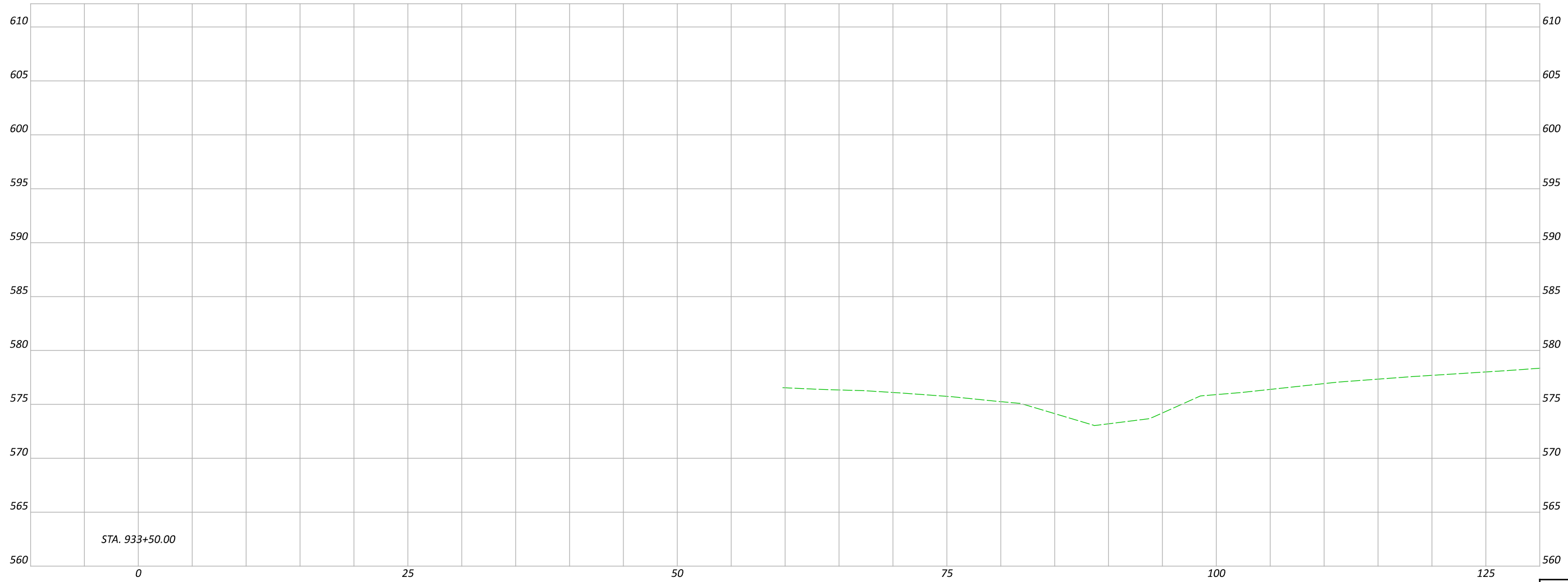
TRAFFIC CONTROL SUBSUMMARY

DESIGN AGENCY  
  
 DESIGNER  
**MAM**  
 REVIEWER  
**DAR 1-17-25**  
 PROJECT ID  
**120413**  
 SHEET  
 P.35 | **54**



PLAN AND PROFILE S.R. 2  
 STA. 932+00 TO 944+50

DESIGN AGENCY  
  
 DESIGNER  
 DAR  
 REVIEWER  
 DC 12-24-24  
 PROJECT ID  
 120413  
 SHEET  
 P.36



CROSS SECTIONS - EB S.R. 2  
STA. 933+50

DESIGN AGENCY



DESIGNER  
DAR

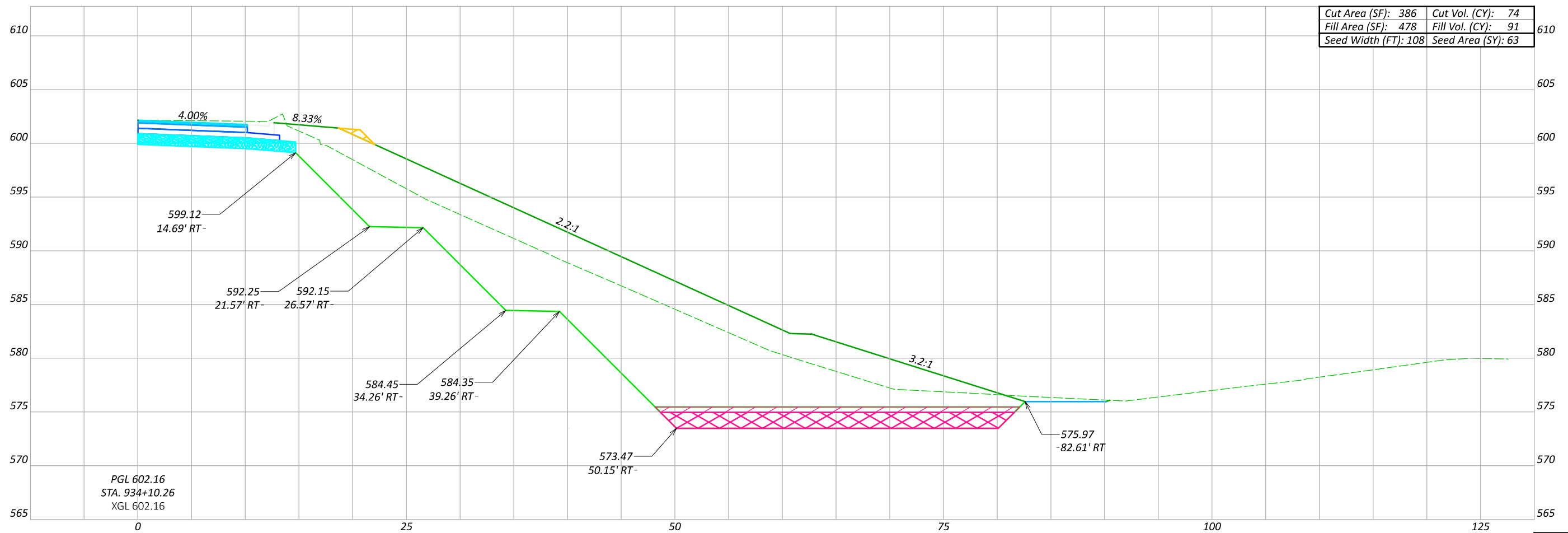
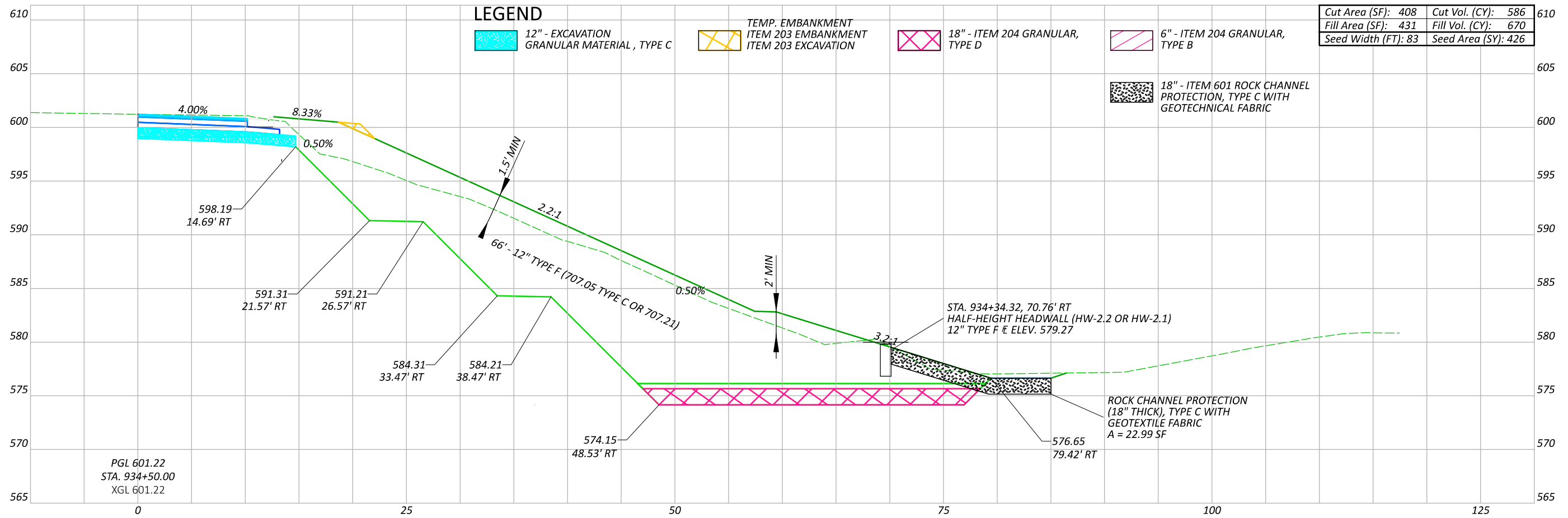
REVIEWER  
DC 12-24-24

PROJECT ID  
120413

Sheet Totals		
Seeding	Cut	Fill

SHEET  
P.37

TOTAL  
54

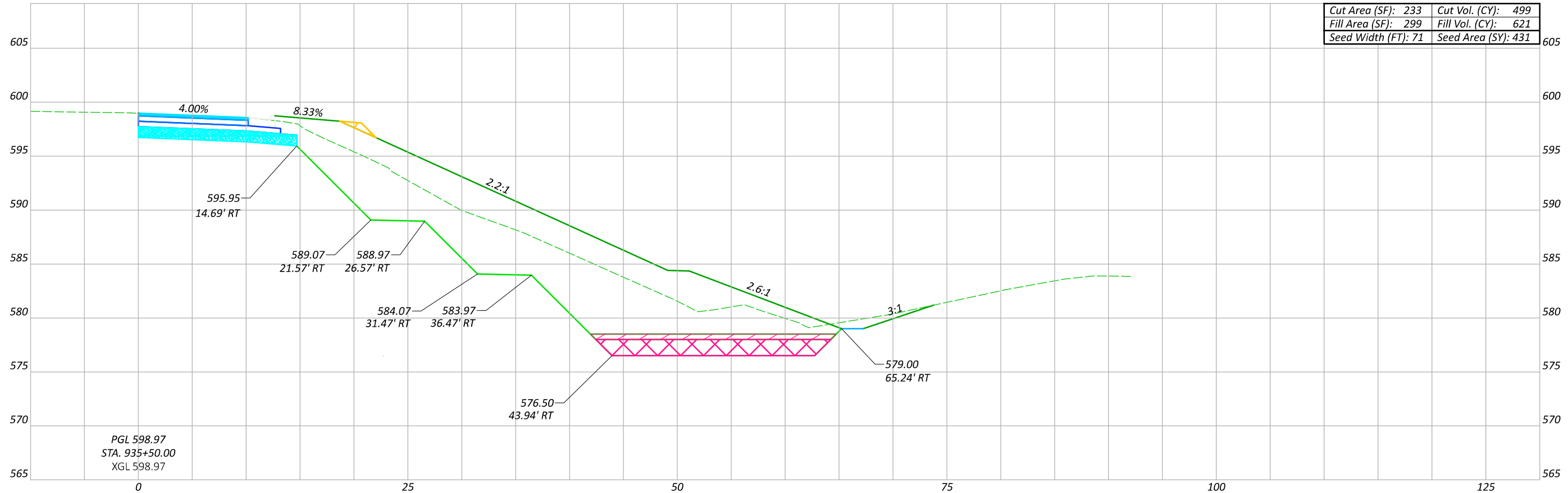


Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill	P.38	54
489	660	761		

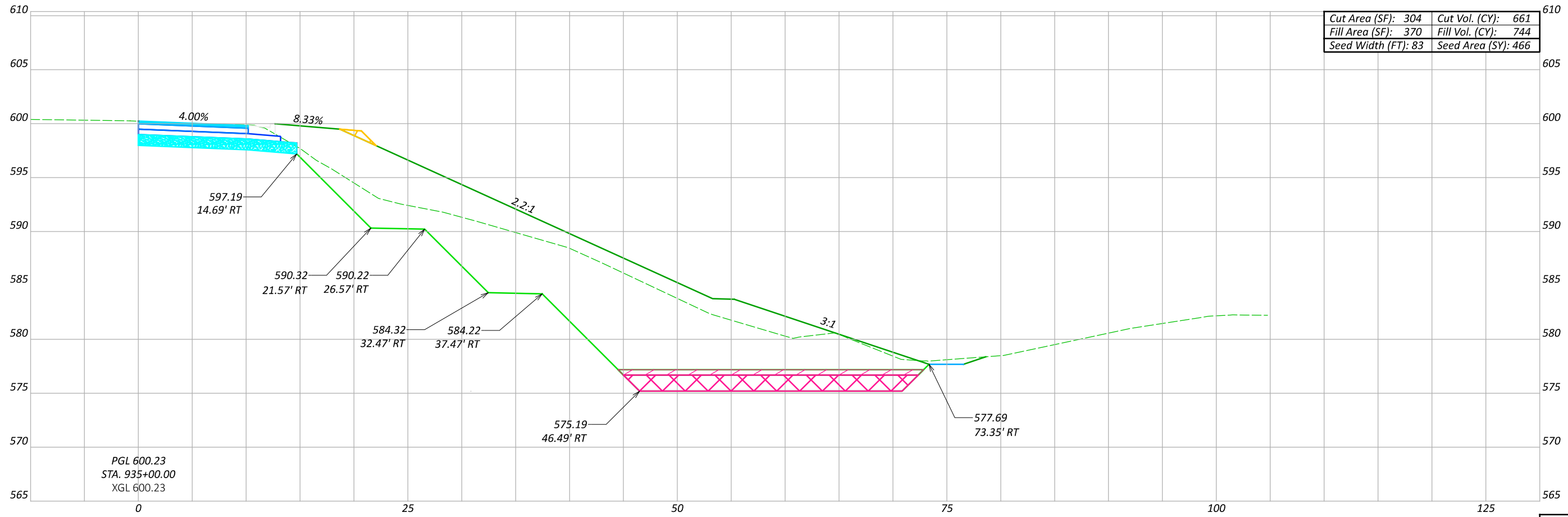
**LEGEND**

- 12" - EXCAVATION GRANULAR MATERIAL, TYPE C
- TEMP. EMBANKMENT ITEM 203 EMBANKMENT ITEM 203 EXCAVATION
- 18" - ITEM 204 GRANULAR, TYPE D
- 6" - ITEM 204 GRANULAR, TYPE B

Cut Area (SF): 233	Cut Vol. (CY): 499
Fill Area (SF): 299	Fill Vol. (CY): 621
Seed Width (FT): 71	Seed Area (SY): 431



Cut Area (SF): 304	Cut Vol. (CY): 661
Fill Area (SF): 370	Fill Vol. (CY): 744
Seed Width (FT): 83	Seed Area (SY): 466



Sheet Totals			120413
Seeding	Cut	Fill	SHEET TOTAL
897	1365	1160	P.39 54

**CROSS SECTIONS - EB S.R. 2**  
**STA 935+00 TO STA. 935+50**

DESIGN AGENCY



DESIGNER

DAR

REVIEWER

DC 12-24-24

PROJECT ID

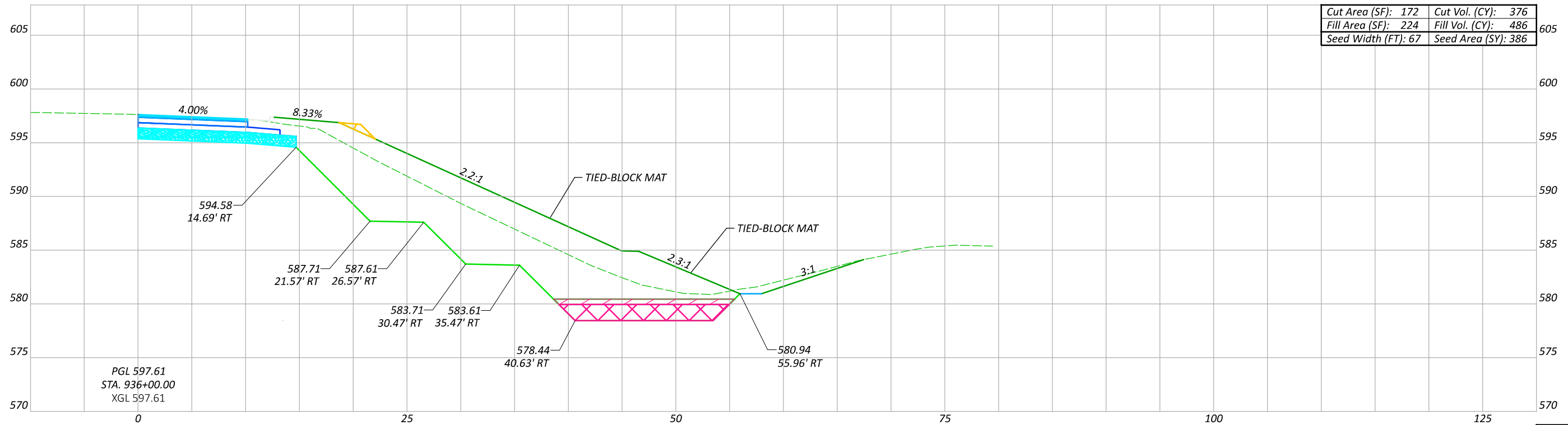
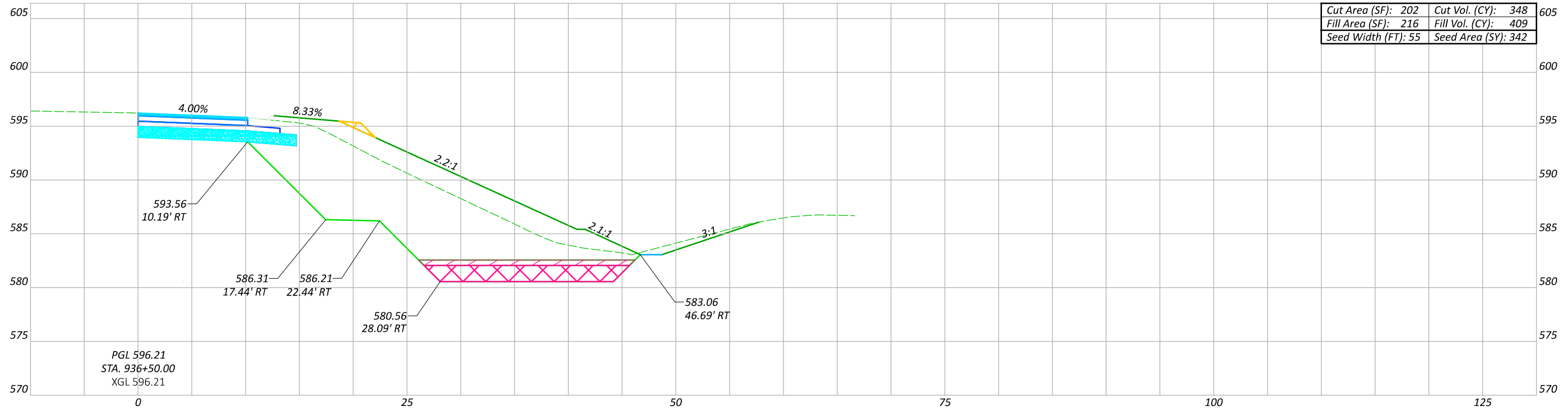
120413

OTT-2-17.69

MODEL: CL-Construction - 935+00.00 [Sheet] PAPER SIZE: 17x11 (in.) DATE: 4/18/2025 TIME: 12:48:02 PM USER: drogers2  
 pw:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01-Active-Projects\District 02\Onawa\120413\400-Engineering\Roadway\Sheets\120413\_XS001.dgn

**LEGEND**

- 12" - EXCAVATION GRANULAR MATERIAL, TYPE C
- TEMP. EMBANKMENT ITEM 203 EMBANKMENT ITEM 203 EXCAVATION
- 18" - ITEM 204 GRANULAR, TYPE D
- 6" - ITEM 204 GRANULAR, TYPE B



CROSS SECTIONS - EB S.R. 2  
STA 936+00 TO STA. 936+50

OTT-2-17.69

MODEL: CL-Construction - 936+00.00 [Sheet] PAPER SIZE: 17x11 (in.) DATE: 4/18/2025 TIME: 12:48:03 PM USER: drogers2  
pw:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 02\Ontario\120413\400-Engineering\Roadway\Sheets\120413\_X5001.dgn

DESIGN AGENCY



DESIGNER

DAR

REVIEWER

DC 12-24-24


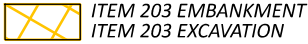

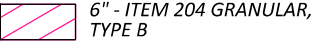
PROJECT ID

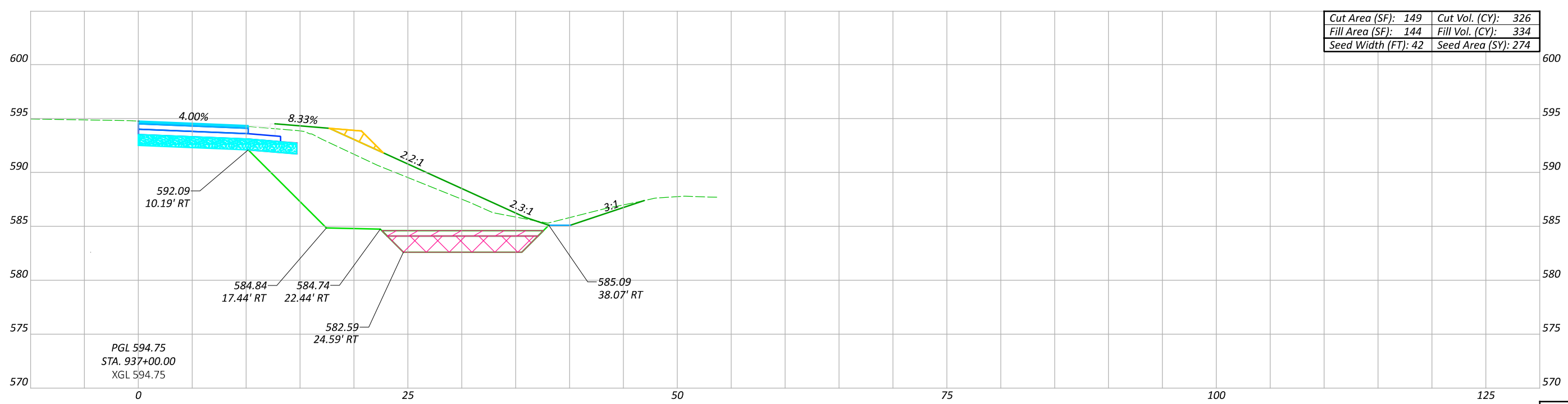
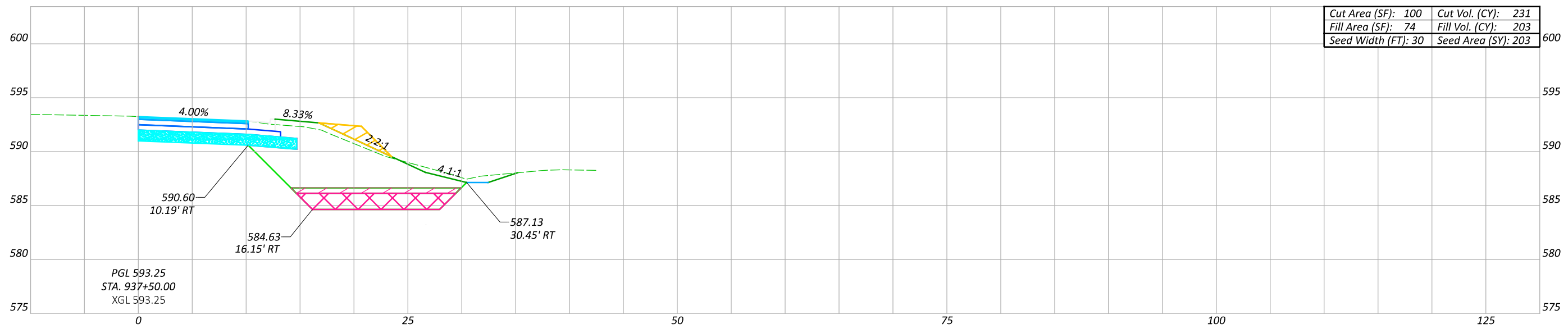
120413

Sheet Totals			TOTAL	
Seeding	Cut	Fill	SHEET	
728	724	895	P.40	54



**LEGEND**

-  12" - EXCAVATION GRANULAR MATERIAL, TYPE C
-  TEMP. EMBANKMENT ITEM 203 EMBANKMENT ITEM 203 EXCAVATION
-  18" - ITEM 204 GRANULAR, TYPE D
-  6" - ITEM 204 GRANULAR, TYPE B



CROSS SECTIONS - EB S.R. 2  
STA 937+00 TO STA. 937+50

OTT-2-17.69

MODEL: CL-Construction - 937+00.00 [Sheet] PAPER SIZE: 17x11 (in.) DATE: 4/18/2025 TIME: 12:48:05 PM USER: croggers2  
pw:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01.Active Projects\District 02\Ontario\120413\400-Engineering\Roadway\Sheets\120413\_X5001.dgn

DESIGN AGENCY



DESIGNER  
DAR

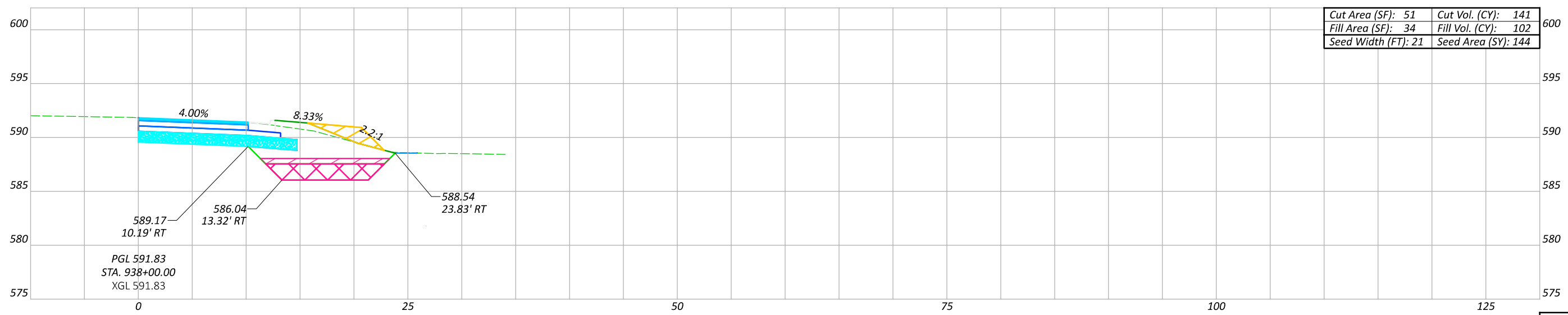
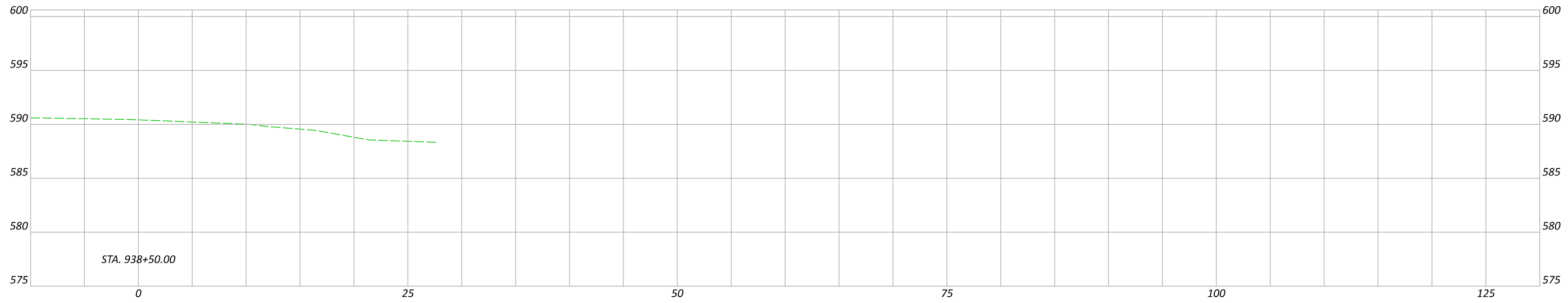
REVIEWER  
DC 12-24-24

PROJECT ID  
120413

Sheet Totals			SHEET	OF
Seeding	Cut	Fill	P.41	54
477	557	537		

**LEGEND**

- 12" - EXCAVATION GRANULAR MATERIAL, TYPE C
- TEMP. EMBANKMENT ITEM 203 EMBANKMENT ITEM 203 EXCAVATION
- 18" - ITEM 204 GRANULAR, TYPE D
- 6" - ITEM 204 GRANULAR, TYPE B



Cut Area (SF):	51	Cut Vol. (CY):	141
Fill Area (SF):	34	Fill Vol. (CY):	102
Seed Width (FT):	21	Seed Area (SY):	144

OTT-2-17.69

MODEL: CL-Construction - 938+00.00 [Sheet] PAPER SIZE: 17x11 (in.) DATE: 4/18/2025 TIME: 12:48:07 PM USER: drogers2  
 pw:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01.Active Projects\District 02\Ottawa\120413\400-Engineering\Roadway\Sheets\120413\_X5001.dgn

CROSS SECTIONS - EB S.R. 2  
 STA 937+00 TO STA. 937+50

DESIGN AGENCY



DESIGNER

DAR

REVIEWER

DC 12-24-24

PROJECT ID

120413

Sheet Totals		
Seeding	Cut	Fill
144	141	102

SHEET P.42 54