

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CLE-32-2.33 (PHASE 8) PART 1

CLERMONT COUNTY UNION TOWNSHIP

FOR PART 2, SEE CLE-CR55-OVRPASS (PHASE 9)

PROJECT DESCRIPTION

THIS PROJECT WILL CREATE A NEW COLLECTOR DISTRIBUTOR ROAD FROM SR-32 AND TIE INTO THE EXISTING RAMP FROM SR-32 TO EASTGATE N DR. IN ADDITION, A NEW RAMP WILL BE CONSTRUCTED FROM SR-32 TO GLEN ESTE-WITHAMSVILLE RD. ACCESS FROM SR 32 AT GLEN ESTE-WITHAMSVILLE ROAD WILL BE REMOVED. THIS IS PHASE 8 OF THE EASTERN CORRIDOR SEGMENT IVa PROJECT.

PROJECT EARTH DISTURBED AREA: 6.63 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 2.00 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 8.63 ACRES

LIMITED ACCESS

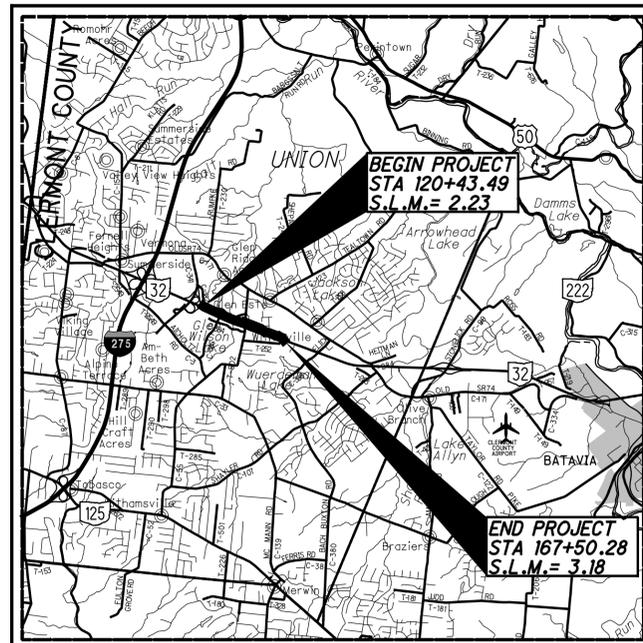
THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

MAINTENANCE OF TRAFFIC ENDORSEMENT

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 11 - 59 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

LATITUDE: 39° 05' 51" LONGITUDE: -84° 16' 15"
SCALE IN MILES



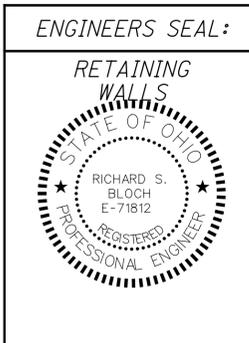
PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

	WEST OF GLEN ESTE-WITHAMSVILLE	BETWEEN GEW & BACH BUXTON	GLEN ESTE-WITHAMSVILLE	RAMP F
CURRENT ADT (2017)	54,660	60,700	19,980	3,100
DESIGN YEAR ADT (2037)	79,680	88,940	27,220	3,960
DESIGN HOURLY VOLUME (2037)	7,680	8,500	3,060	400
DIRECTIONAL DISTRIBUTION	.62	.52	.52	1.00
TRUCKS (DESIGN HOUR)	.05	.05	.02	.05
TRUCKS (24 HOUR B&C)	.08	.08	.04	.08
DESIGN SPEED	60 MPH	60 MPH	45 MPH	50 MPH
LEGAL SPEED	55 MPH	55 MPH	45 MPH	50 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	[2] URBAN PRINCIPAL ARTERIAL	[2] URBAN PRINCIPAL ARTERIAL	[5] MAJOR URBAN COLLECTOR	
NHS PROJECT	YES			

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2
TYPICAL SECTIONS	3 - 7
GENERAL NOTES	8 - 10, 10A
MAINTENANCE OF TRAFFIC	11 - 59
GENERAL SUMMARY	60 - 64
SUMMARIES AND CALCULATIONS	65 - 76
PROJECT SITE PLAN	77 - 78
PLAN & PROFILE - RAMP F	79 - 88
PLAN & PROFILE - RAMP R	89 - 91
PLAN - SR-32	92 - 93
CROSS SECTIONS - RAMP F	94 - 124
CROSS SECTIONS - SR-32	125 - 126
CROSS SECTIONS - RAMP R	127 - 135
SUPERELEVATION TABLES	136 - 139
INTERCHANGE DETAILS	140 - 143
CONCRETE JOINT DETAILS	144
BARRIER DETAILS	145 - 151
UNDERDRAIN PLANS	152 - 160
DRAINAGE DETAILS	161 - 162
TRAFFIC CONTROL	163 - 187
ITS PLANS	188 - 192
RETAINING WALLS	193 - 206
WATER WORKS	207 - 210
FENCE PLANS	211 - 214
RIGHT OF WAY	215 - 243
SOIL PROFILES AND STRUCTURE	244 - 262
FOUNDATION EXPLORATION	



Tammy K. Campbell
Tammy K. Campbell, P.E.
District 08 Deputy Director

Jack Marchbanks
Jack Marchbanks, PhD
Director, Department of Transportation

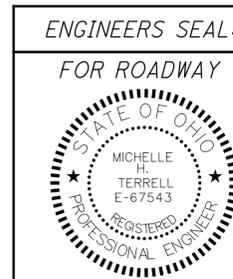
PLAN PREPARED BY:



400 W. NATIONWIDE BLVD, SUITE 225
COLUMBUS, OH 43215

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

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



STANDARD CONSTRUCTION DRAWINGS														SUPPLEMENTAL SPECIFICATIONS					
BP-1.1	7/28/00	DM-4.4	1/15/16	MGS-3.1	1/19/18	HW-2.2	7/20/18	HL-50.21	7/15/22	MT-99.60	7/15/16	TC-41.30	10/18/13	TC-83.10	1/17/20	800	1/20/23	905	4/17/20
BP-2.1	1/21/22			MGS-3.2	1/18/13	PSID-1-13	1/20/23	HL-60.11	7/21/17	MT-101.60	1/17/20	TC-41.40	10/18/13	TC-83.20	7/15/22	804	1/20/23	909	10/21/22
BP-2.2	1/15/21	I-3B, 3B1	7/15/22	MGS-4.2	7/19/13	SBR-1-20	1/20/23	HL-60.12	7/16/21	MT-101.70	1/17/20	TC-41.41	7/19/19	TC-85.10	10/21/22	805	7/16/10	913	4/16/21
BP-3.1	1/21/22	I-3C, 3C1	7/15/22	MGS-4.3	1/18/13	VPF-1-90	1/20/23	HL-60.31	1/17/20	MT-101.75	1/17/20	TC-41.50	10/18/13	TC-85.20	7/20/18	807	1/21/22	921	4/20/12
BP-6.1	7/19/13	I-3D	7/15/22	MGS-5.3	7/15/16					MT-101.90	7/17/20	TC-42.10	10/18/13			809	1/20/23	939	1/17/20
CB-3	7/16/21	MH-3	7/16/21	RM-1.1	1/15/21	HL-10.11	7/15/22	MT-95.30	7/19/19	MT-102.10	1/17/20	TC-42.20	10/18/13	ITS-10.11	1/20/23	813	10/19/18	977	4/17/09
CB-3A	7/16/21			RM-3.1	7/20/18	HL-10.12	1/20/23	MT-95.31	7/19/19	MT-102.20	4/19/19	TC-51.11	1/15/16	ITS-12.50	7/16/21	821	4/20/12		
CB-5	7/16/21	BP-4.1	7/19/13	RM-4.2	4/17/20	HL-10.13	1/20/23	MT-95.32	4/19/19	MT-103.10	1/21/22	TC-51.12	1/15/16	ITS-14.10	1/20/23	832	7/15/22		
CB-6	1/21/22	BP-5.1	7/15/22	RM-4.3	1/21/22	HL-20.11	10/21/22	MT-95.45	1/17/20	MT-104.10	10/16/15	TC-52.10	10/18/13	ITS-14.11	1/20/23	836	1/19/18		
CB-8	7/16/21	BP-7.1	1/21/22	RM-4.4	7/19/19	HL-20.14	4/17/20	MT-95.50	7/21/17	MT-105.10	1/17/20	TC-52.20	1/15/21	ITS-15.11	1/20/23	839	7/16/21		
DM-1.1	7/17/20	F-1.1	7/19/13	RM-4.5	7/21/17	HL-30.11	1/15/21	MT-95.61	4/19/19			TC-61.30	7/19/19	ITS-18.00	7/16/21	840	4/15/22		
DM-1.2	7/16/21	F-3.1	7/19/13	RM-4.6	7/19/13	HL-30.21	4/17/20	MT-97.10	4/19/19	TC-12.31	4/15/22	TC-65.10	1/17/14	ITS-30.11	4/16/21	850	4/15/22		
DM-2.1	1/18/13	F-3.4	7/19/13	AS-1-15	1/20/23	HL-30.22	1/15/21	MT-98.20	4/19/19	TC-15.116	7/16/21	TC-65.11	7/15/22	ITS-30.13	4/16/21	867	4/15/22		
DM-4.1	7/17/20			AS-2-15	1/20/23	HL-30.31	4/17/20	MT-98.21	1/17/20	TC-21.11	7/16/21	TC-71.10	7/15/22			870	10/21/22		
DM-4.2	7/20/12	MGS-1.1	7/16/21	BR-2-15	1/21/22	HL-30.32	4/17/20	MT-98.28	1/17/20	TC-21.21	1/20/23	TC-72.20	7/20/18			878	1/21/22		
DM-4.3	1/15/16	MGS-2.1	1/19/18	HW-2.1	7/20/18	HL-30.41	1/21/22	MT-98.29	1/17/20	TC-21.50	4/17/20	TC-73.20	1/17/20			902	7/19/19		
						HL-40.10	7/17/20	MT-99.20	4/19/19	TC-22.20	1/17/14	TC-74.10	1/20/23			903	7/20/12		
						HL-40.20	7/15/22	MT-99.30	1/17/20	TC-41.20	10/18/13	TC-81.22	7/15/22			904	7/15/22		

FEDERAL PROJECT NO. E200 (428)
PID NO. 103957
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
CLE-32-2.33 (PHASE 8)
1/262

CLEARING AND GRUBBING

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

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2	EACH
659, TOPSOIL	1,060	CU. YD.
659, SEEDING AND MULCHING	9,546	SQ. YD.
659, REPAIR SEEDING AND MULCHING	477	SQ. YD.
659, INTER-SEEDING	477	SQ. YD.
659, COMMERCIAL FERTILIZER	1.33	TON
659, LIME	1.97	ACRES
659, WATER	53	M GALS
659, MOWING	21	M SQ. FT.

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

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

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

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

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

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

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

PART WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD DRAWING BP-3.1.

ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, AS PER PLAN

OBTAIN SOIL SAMPLES AS OUTLINED IN SUPPLEMENT 1120 FOLLOWING EXCAVATION OR EMBANKMENT PLACEMENT TO THE DESIGN SUBGRADE LEVEL. THE SOIL SAMPLES FOR SUPPLEMENT 1120 TESTING ARE TO BE OBTAINED FROM THE ACTUAL SUBGRADE SOILS. SAMPLING OF THE SOILS OUTSIDE THE ACTUAL STABILIZATION LIMITS OR FROM A BORROW AREA IS PROHIBITED. THE CONSTRUCTION SCHEDULE SHALL INCLUDE SPECIFIC ACTIVITIES FOR SAMPLING AND TESTING OF THE SUBGRADE SOILS FOR ALL PHASES OR PARTIAL PHASES OF CONSTRUCTION. PERFORM THE MIXTURE DESIGN PROCEDURE FOR EACH PHASE AS OUTLINED IN SUPPLEMENT 1120. DURING CONSTRUCTION, OBTAIN FIELD VERIFICATION SAMPLES FOR EACH PHASE OF CONSTRUCTION AND SUBMIT THE TEST RESULTS FOR EACH PHASE AS THE LABORATORY TESTING IS COMPLETE.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET 70 & 71 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 11 HOURS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. EXCEPT AS INDICATED ON SHEET --- USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

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 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

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

ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449) 34 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 12 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

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

ITEM 606 - IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE TYPE 2 IMPACT ATTENUATORS AS LISTED ON THE OFFICE OF ROADWAY ENGINEERING'S WEB PAGE (REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS). WHEN BI-DIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS. THE FACE OF THE IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, IMPACT ATTENUATOR, TYPE 2 [60 MPH, 34 IN, (BIDIRECTIONAL)], EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS/BACKSTOPS, TRANSITIONS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

ITEM 202 - REMOVAL MISC.: PRIVATE SIGN AND FOUNDATION

THIS ITEM CONSISTS OF A DUAL STEEL POST SIGN STRUCTURE WITH AN ABOVE GROUND MASONRY FOUNDATION APPROXIMATELY 6' x 12' x 4'. THE SIGN IS LOCATED ON PARCEL 726, JUST NORTH OF SR-32 NEAR STA 159+50, JUST EAST OF FAYARD DR. AS SHOWN ON SHEET 87. THIS ITEM SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL MATERIAL ASSOCIATED WITH THE SIGN, STRUCTURE, AND MASONRY FOUNDATIONS TO ONE FOOT BELOW THE EXISTING GRADE. APPROXIMATE DIMENSIONS OF SIGN FACES ARE 8' x 6'. ANY REMAINING HOLE FROM THE REMOVAL OF THE SIGN SHALL BE FILLED.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

POST CONSTRUCTION STORM WATER TREATMENT

BMPs HAVE BEEN PROVIDED FOR OTHER PHASES OF THE SEGMENT IVa PROJECT TO ACCOUNT FOR ALL OF THE PROJECTS' EDA ACTIVITIES. THERE ARE NO PROPOSED BMPs FOR THIS PHASE OF THE PROJECT.

DRAINAGE AT INTERSECTION STREETS

AT INTERSECTING STREETS WHERE THE DRAINAGE IS TOWARD OR INTO THE PROJECT, SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR TO MAINTAIN PROPER GRADE ALONG THE EDGE OF PAVEMENT SO THAT WATER WILL NOT POND. AT INTERSECTING STREETS, WHERE THE EDGE OF PAVEMENT CONTINUES ACROSS THE STREET, CARE SHALL BE TAKEN TO FEATHER DOWN AND FORM A NEAT SEAM WITH THE PROPER GRADE.

GRADE CHANGES

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS. IF IT IS DETERMINED THAT THE PROPOSED SEWER WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

GRADES AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE ENGINEER. INVERT ELEVATIONS SHALL NOT DEVIATE FROM THE PLAN ELEVATION BY MORE THAN 0.05 FOOT. FAILING TO MEET THE ABOVE REQUIREMENTS IS CAUSE FOR REJECTION OF THE AFFECTED SECTION OF SEWER.

CALCULATED
MSW
CHECKED
MJT

GENERAL NOTES

CLE -32-2.33
(PHASE 8)

...303.208\103957_GN801.dgn 9/13/2023 1:30:14 PM mswjtt

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE ENGINEER

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE IN ACCORDANCE WITH SCD DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING, OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611, INSPECTION WELL.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALE WHEN OUTLETTING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN

FURNISH AN EROSION CONTROL PAD AS SHOWN IN SCD DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH. THE COST FOR THE EROSION CONTROL PAD IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WITH A HOLE WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING, OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION

THE CONTRACTOR SHALL FURNISH WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE DISTRICT R/W PERMIT OFFICE. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203, EMBANKMENT AS PER PLAN

DRAINAGE DISCHARGE CONTINUANCE REMOVAL
THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE DISCHARGE CONTINUANCE TO BE REMOVED.

REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF WAY LINE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC 1 CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE CONDUIT. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS QC 1 CONCRETE AND RESTORE ALL AREAS AS REQUIRED. ALL COSTS ARE INCLUDED IN ITEM 202, REMOVAL MISC. CONDUIT.

DAM THE SWALE THAT OUTLETS TO THE DITCH AT THE R/W AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN

REMOVE THE INSPECTION WELL AND RESTORE ALL AREAS AS REQUIRED. THE COST IS INCLUDED IN ITEM 202, REMOVAL MISC. INSPECTION WELL.

CONDUIT MATERIAL TYPES
THE FOLLOWING CONDUIT MATERIAL TYPES MAY BE USED:
707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, AND 707.52 SDR35.

PAY ITEMS
EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPES B, C, E AND F FOR DRAINAGE DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO 10 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN THESE PAY ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

- ITEM 611, 2 EACH INSPECTION WELL
- ITEM 611, 10 FT. CONDUIT, MISC TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE
- ITEM 611, 10 FT. CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE
- ITEM 611, 10 FT. CONDUIT, MISC TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE
- ITEM 611, 10 FT. CONDUIT, MISC TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE
- ITEM 202, 20 FT. REMOVAL MISC CONDUIT
- ITEM 202, 2 EACH REMOVAL MISC INSPECTION WELL
- ITEM 203, 50 CUBIC YARD EMBANKMENT AS PER PLAN

1:30:3208 103957 61801.dgn 9/3/2023 3:13:40 PM msw/ht

CALCULATED
MSW
CHECKED
MJT

GENERAL NOTES

**CLE-32-2.33
(PHASE 8)**

...303.208\103957_CG801.dgn 9/13/2023 3:18:08 PM mswwhitt

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	MSW	CHECKED	MHT
9	10	10A	67	68	69	71	72	73	77		01/NHS/04	EXT	TOTAL								
																ROADWAY					
LS											LS	201	11000	LS		CLEARING AND GRUBBING					
			2								2	202	20010	2	EACH	HEADWALL REMOVED					
			7,084			524					7,608	202	23000	7,608	SY	PAVEMENT REMOVED					
						842					842	202	23500	842	SY	WEARING COURSE REMOVED					
			145								145	202	30000	145	SF	WALK REMOVED					
			970								970	202	32000	970	FT	CURB REMOVED					
			404								404	202	35100	404	FT	PIPE REMOVED, 24" AND UNDER					
			43								43	202	35200	43	FT	PIPE REMOVED, OVER 24"					
			580								580	202	38000	580	FT	GUARDRAIL REMOVED					
			3								3	202	58100	3	EACH	CATCH BASIN REMOVED					
			2,970								2,970	202	75000	2,970	FT	FENCE REMOVED					
			1								1	202	98100	1	EACH	REMOVAL MISC.: PRIVATE SIGN AND FOUNDATION				9	
	1										1	202	98100	1	EACH	REMOVAL MISC.: PRIVATE FLAG POLE				10	
		2									2	202	98100	2	EACH	REMOVAL MISC.: INSPECTION WELL				10A	
		20									20	202	98200	20	FT	REMOVAL MISC.: CONDUIT				10A	
											7,077	203	10000	7,077	CY	EXCAVATION					
											5,016	203	20000	5,016	CY	EMBANKMENT					
		50									50	203	20001	50	CY	EMBANKMENT, AS PER PLAN				10A	
											1,946	204	10000	1,946	SY	SUBGRADE COMPACTION					
						1,946					11	204	45000	11	HOUR	PROOF ROLLING					
						19,350					19,350	206	10010	19,350	SY	LIME STABILIZED SUBGRADE, 12 INCHES DEEP					
						501					501	206	10300	501	TON	LIME					
						19,350					19,350	206	11000	19,350	SY	CURING COAT					
LS											LS	206	30001	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, AS PER PLAN				9	
				262.5							262.5	606	15050	262.5	FT	GUARDRAIL, TYPE MGS					
				625							625	606	15100	625	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS					
				3							3	606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)					
				1							1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T					
				3							3	606	35002	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1					
					1						1	606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2					
					1						1	606	60022	1	EACH	IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL) [60 MPH/24 IN]					
					2,349						2,349	607	23000	2,349	FT	FENCE, TYPE CLT					
					2,349						2,349	607	70000	2,349	FT	FENCELINE SEEDING AND MULCHING					
						1,867					1,867	622	10060	1,867	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B					
						1,498					1,498	622	10120	1,498	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C					
						825					825	622	10160	825	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D					
						171					171	622	10161	171	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN A				10	
						879					879	622	10161	879	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN B				10	
						1					1	622	24840	1	EACH	CONCRETE BARRIER END SECTION, TYPE B					
						5					5	622	25000	5	EACH	CONCRETE BARRIER END SECTION, TYPE D					
						10					10	622	25004	10	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B					
						10					10	622	25008	10	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C					
						7					7	622	25050	7	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D					
						2					2	622	25051	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN				10	
	LS										LS	SPECIAL	69098400	LS		CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION				10	
											LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS					
																EROSION CONTROL					
		8									8	601	21050	8	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT					
											150	601	38501	150	FT	PAVED GUTTER, TYPE 3, AS PER PLAN				10	
											2	659	00100	2	EACH	SOIL ANALYSIS TEST					
		2									1,060	659	00300	1,060	CY	TOPSOIL					
		1,060									9,546	659	10000	9,546	SY	SEEDING AND MULCHING					
		9,546									477	659	14000	477	SY	REPAIR SEEDING AND MULCHING					
		477									477	659	15000	477	SY	INTER-SEEDING					
		477									1.33	659	20000	1.33	TON	COMMERCIAL FERTILIZER					
		1.33									1.97	659	31000	1.97	ACRE	LIME					
		1.97									53	659	35000	53	MGAL	WATER					
		53									21	659	40000	21	MSF	MOWING					
		21																			
											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					
											69,692	832	30000	69,692	EACH	EROSION CONTROL					

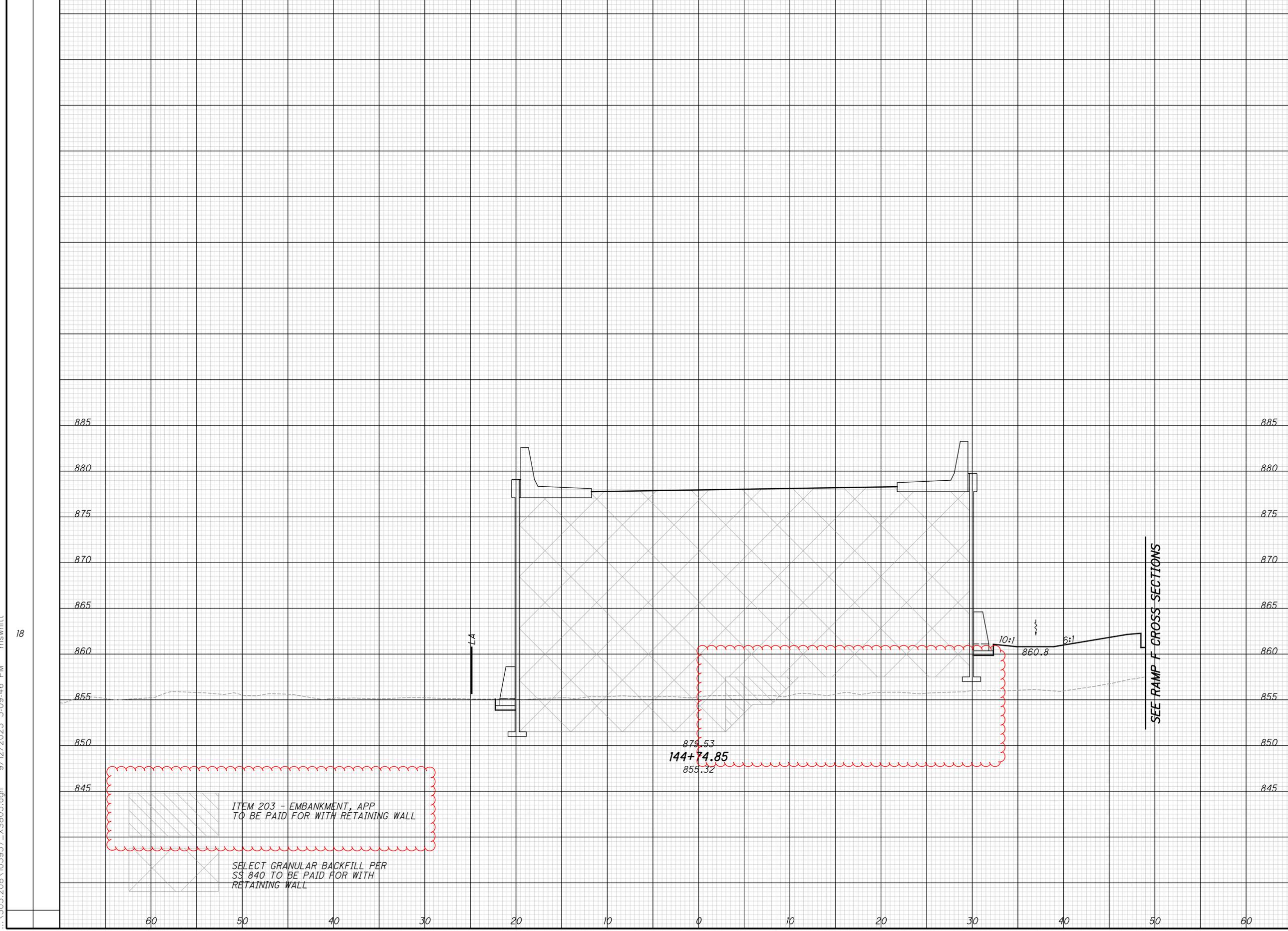
GENERAL SUMMARY

CLE-32-2.33 (PHASE 8)

...303.208\103957_XS803.dgn 9/12/2023 3:09:46 PM mswhtt

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
GAH
CHECKED
WAA



END AREA		VOLUME	
CUT	FILL	CUT	FILL
3	90		

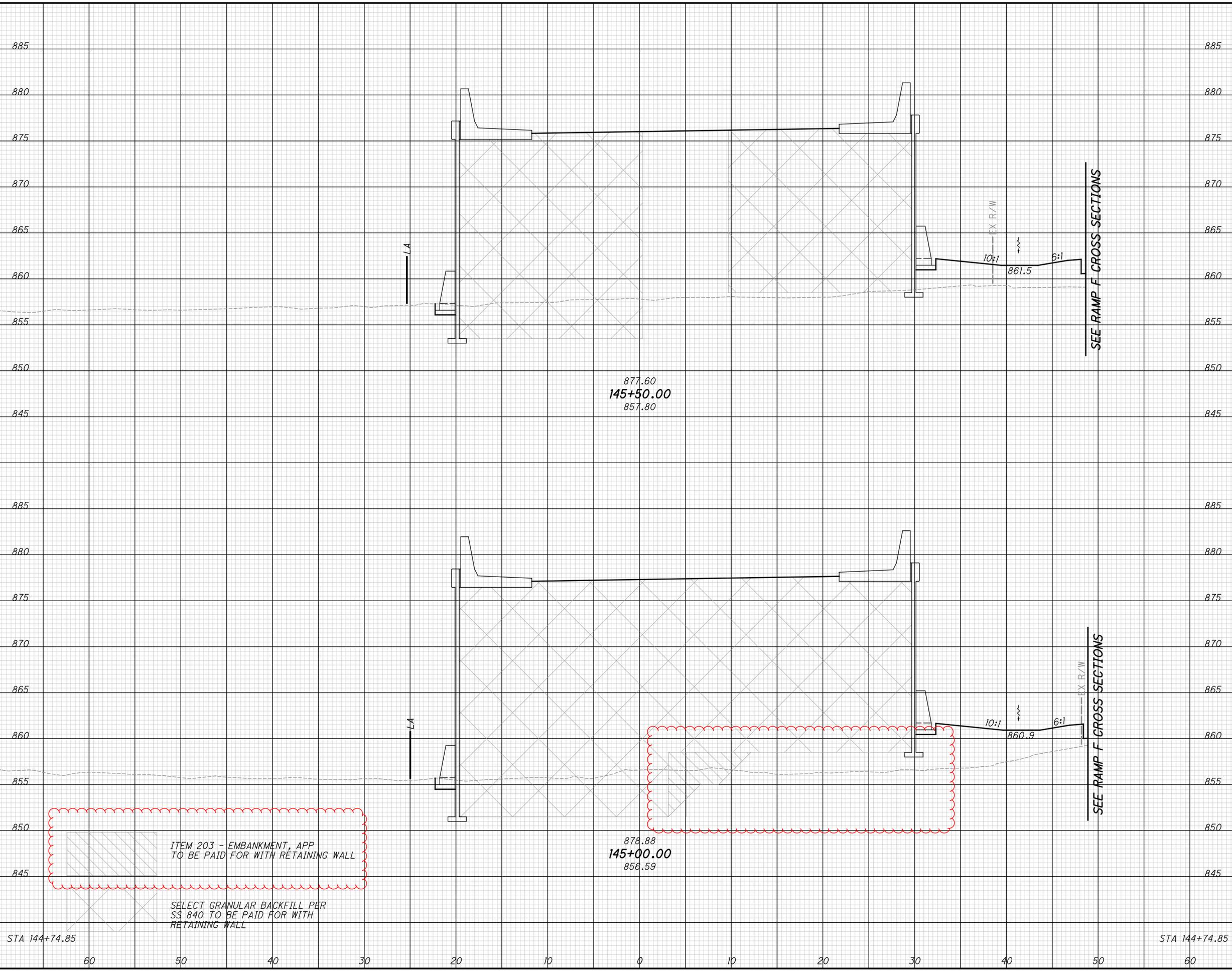
CROSS SECTIONS - RAMP R
STA. 144+74.85

CLE-32-2.33
(PHASE 8)

127
262

...303.208\103957_XS803.dgn 9/12/2023 3:09:46 PM mswhtt

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
17	3	46	5	103
98	2	65	2	72
18	3	90	7	175
148				



ITEM 203 - EMBANKMENT, APP TO BE PAID FOR WITH RETAINING WALL

SELECT GRANULAR BACKFILL PER SS 840 TO BE PAID FOR WITH RETAINING WALL

877.60
145+50.00
857.80

878.88
145+00.00
856.59

EX R/W
10:1
861.5
6:1
SEE RAMP F CROSS SECTIONS

EX R/W
10:1
860.9
6:1
SEE RAMP F CROSS SECTIONS

END AREA	VOLUME	
	CUT	FILL
3	46	
2	65	
3	90	
7	175	

CALCULATED
GAA
CHECKED
WAA

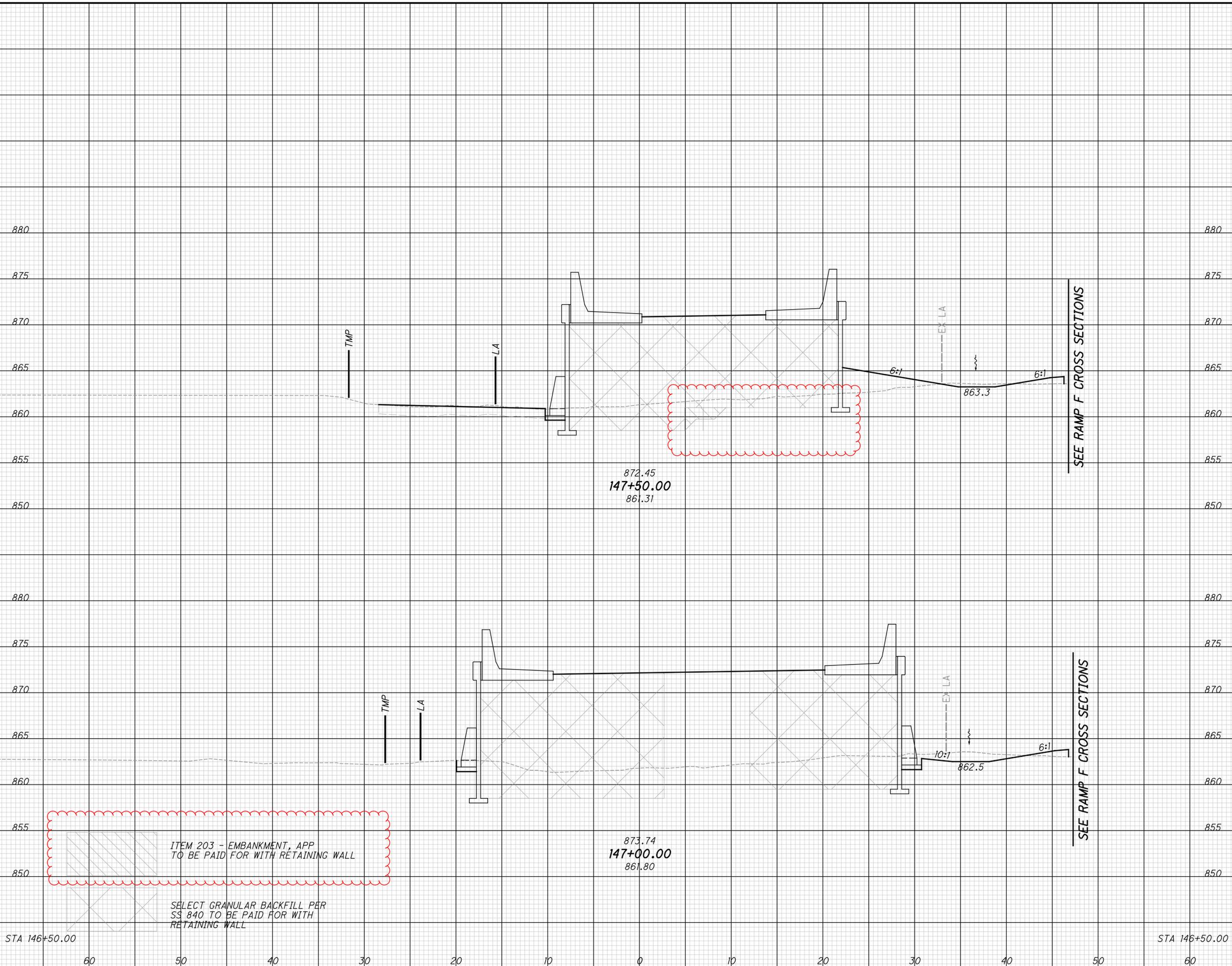
CROSS SECTIONS - RAMP R
STA. 145+00.00 TO STA. 145+50.00

CLE-32-2.33
(PHASE 8)

128
262

...303.208\103957_XS803.dgn 9/12/2023 3:09:46 PM mswhttt

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
44	5	36	18	35
170	14	2	17	10
18	5	9	35	45
95				
17				



SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
44	5	36	18	35
170	14	2	17	10
18	5	9	35	45
95				
17				

CROSS SECTIONS - RAMP R
STA. 147+00.00 TO STA. 147+50.00

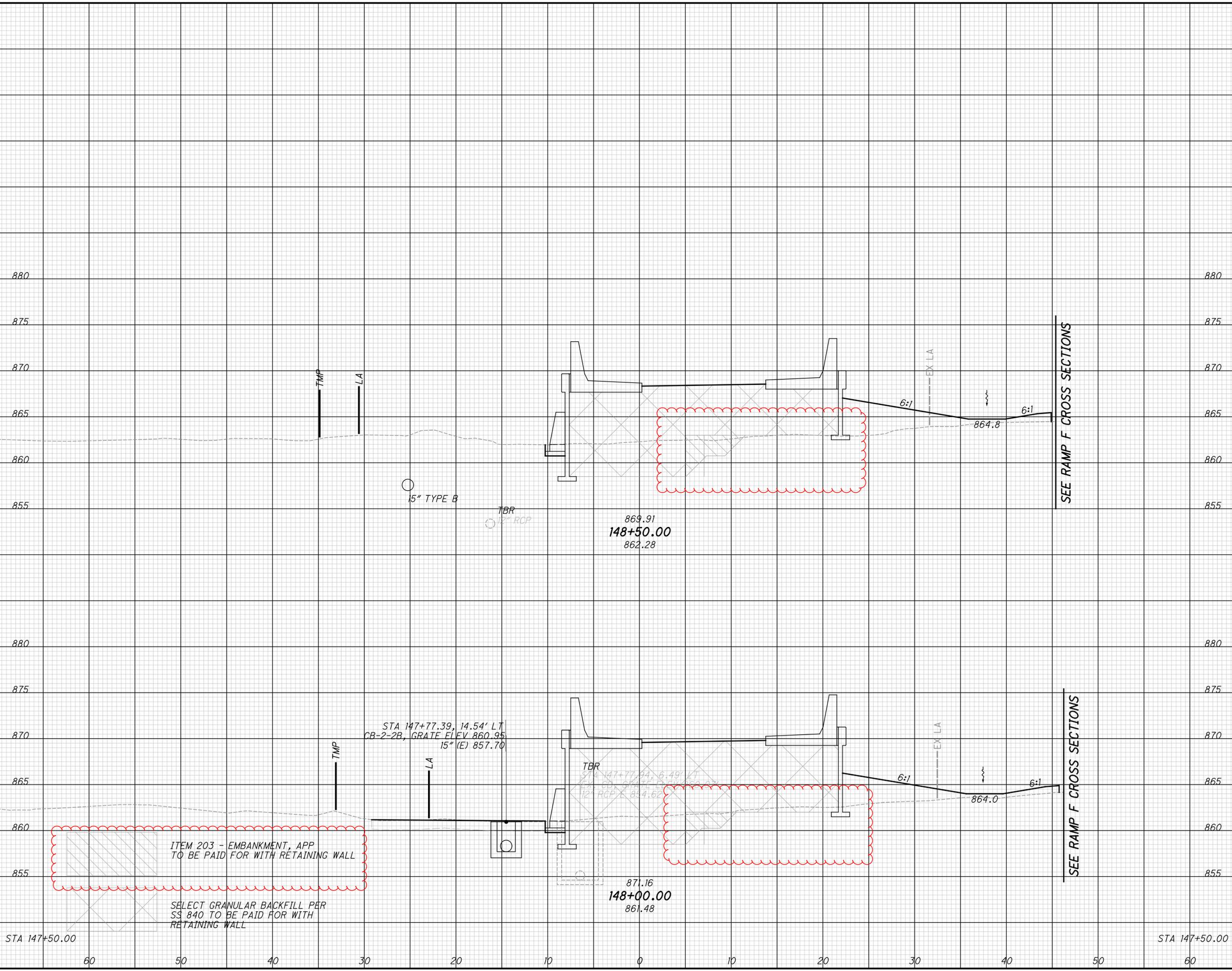
CLE-32-2.33
(PHASE 8)

CALCULATED
 GAH
 CHECKED
 WAA

130
 262

...303.208\103957_XS803.dgn 9/12/2023 3:09:47 PM mswhatt

SEEDING	END WIDTH	SQ. YDS.		
			CUT	FILL
24			3	38
188			5	83
44			3	52
243			7	81
44			5	36
431			12	164



END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
3	38				
5	83				
3	52				
7	81				
5	36				
12	164				

CROSS SECTIONS - RAMP R
STA. 148+00.00 TO STA. 148+50.00

CLE-32-2.33
(PHASE 8)

131
262

...310.20\310.208\103957TS801.dgn 9/12/2023 6:42:20 PM ssopraseuth

SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	625	625	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	
							GROUND ROD	GROUND MOUNTED SUPPORT, NO. 3 POST			OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2	SIGN, FLAT SHEET	SIGN, GROUND MOUNTED EXTRUSHEET	SIGN, OVERHEAD EXTRUSHEET	SIGN, TEMPORARY OVERLAY	CONCRETE MEDIAN BARRIER SIGN BRACKET, AS PER PLAN	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TC-21.50	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL
							EACH	FT	EACH	EACH	EACH	EACH	SF	SF	SF	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
170	R-1	RAMP F	121+08	RT																							
	OS-1	RAMP F	122+39	RT	ADV. OVHD.	156 X 132	1		1						143			1		1							
	R-2	SR 32	122+70	LT																					2	1	
171	NO ASSOCIATED QUANTITIES																										
172	NO ASSOCIATED QUANTITIES																										
173	OS-2	RAMP F	139+50	RT	ADV. OVHD.		1		1																		
	RR-1	RAMP F	139+53	RT																						1	
174	R-3	RAMP F	144+75	RT																							
175	R-4	RAMP F	148+50	RT																							
	R-5	RAMP F	150+50	RT																							
176	R-6	RAMP F	153+50	RT																							
	OS-3	RAMP F	154+00	LT / RT	EXIT THRU EXIT OVHD.	156 X 60 204 X 60	1								65 85	60			1	1							
177	R-7	RAMP F	158+56	RT																							
	S-1	RAMP F	158+56	RT	D10-H8	12 X 12								1													
	S-2	RAMP F	159+48	RT	E5-H1d	48 X 84									28												
	S-3	RAMP F	161+59	LT	W21-5AR	36 X 36		28						9													
178	OS-4	SR 32	163+50	LT	EXIT OVHD.	240 X 96	1																				
	S-4	RAMP F	166+60	LT	W21-5BR	36 X 36		28							9												
179	R-8	SR 32	173+50	LT																							
180	OS-5	SR 32	191+00	LT	ADV. OVHD.	204 X 120	1																				
181	RR-2	RAMP Q	211+00	LT	EXIT OVHD.																						
	OS-6	SR 32	213+00	LT	ADV. OVHD.	204 X 120	1																				
SUBTOTALS CARRIED TO GENERAL SUMMARY							6	56	2	1	2	1	19	28	793	234	2	3	4	4	3	7	6	2	2	2	1

SIGNING SUBSUMMARY

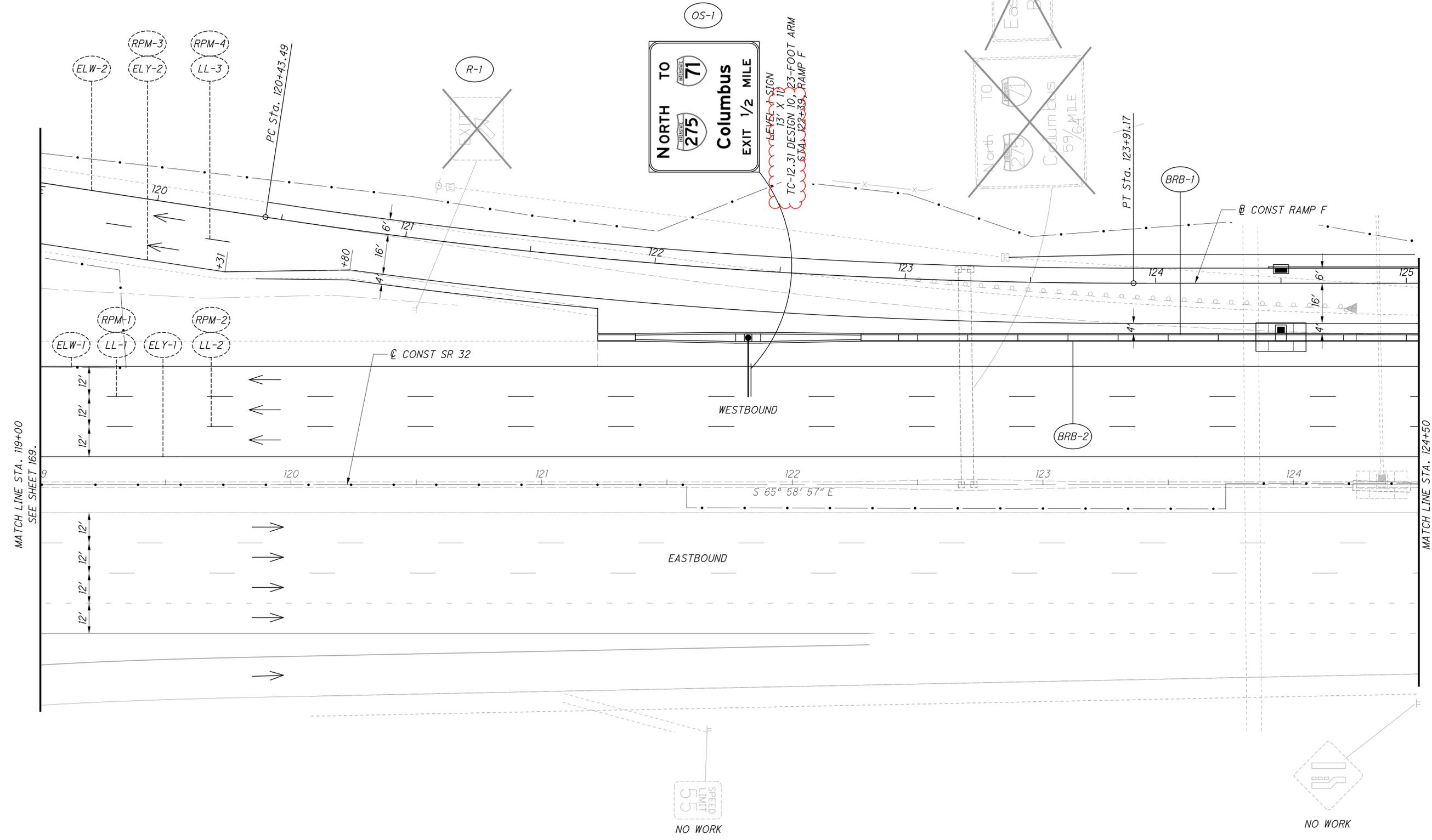
CALCULATED
HJF
CHECKED
ACW

CLE-32-2.33 (PHASE 8)

165
262

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 168
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.
3. FOR SIGN ELEVATION VIEW, SEE SHEET 182



UPON REMOVAL OF EXISTING TRUSS SUPPORT, REMOVE FOUNDATION BEHIND GUARDRAIL ONLY, ABANDON MEDIAN BARRIER FOUNDATION.

CALCULATED ACW
CHECKED WAA

0 10 20 40
HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL PLAN - SR 32
STA. 119+00 TO STA. 124+50

CLE-32-2.33
(PHASE 8)

...310.20\310.208\103957TP809.dgn 9/12/2023 6:42:26 PM ssopraseuth

NOTES:

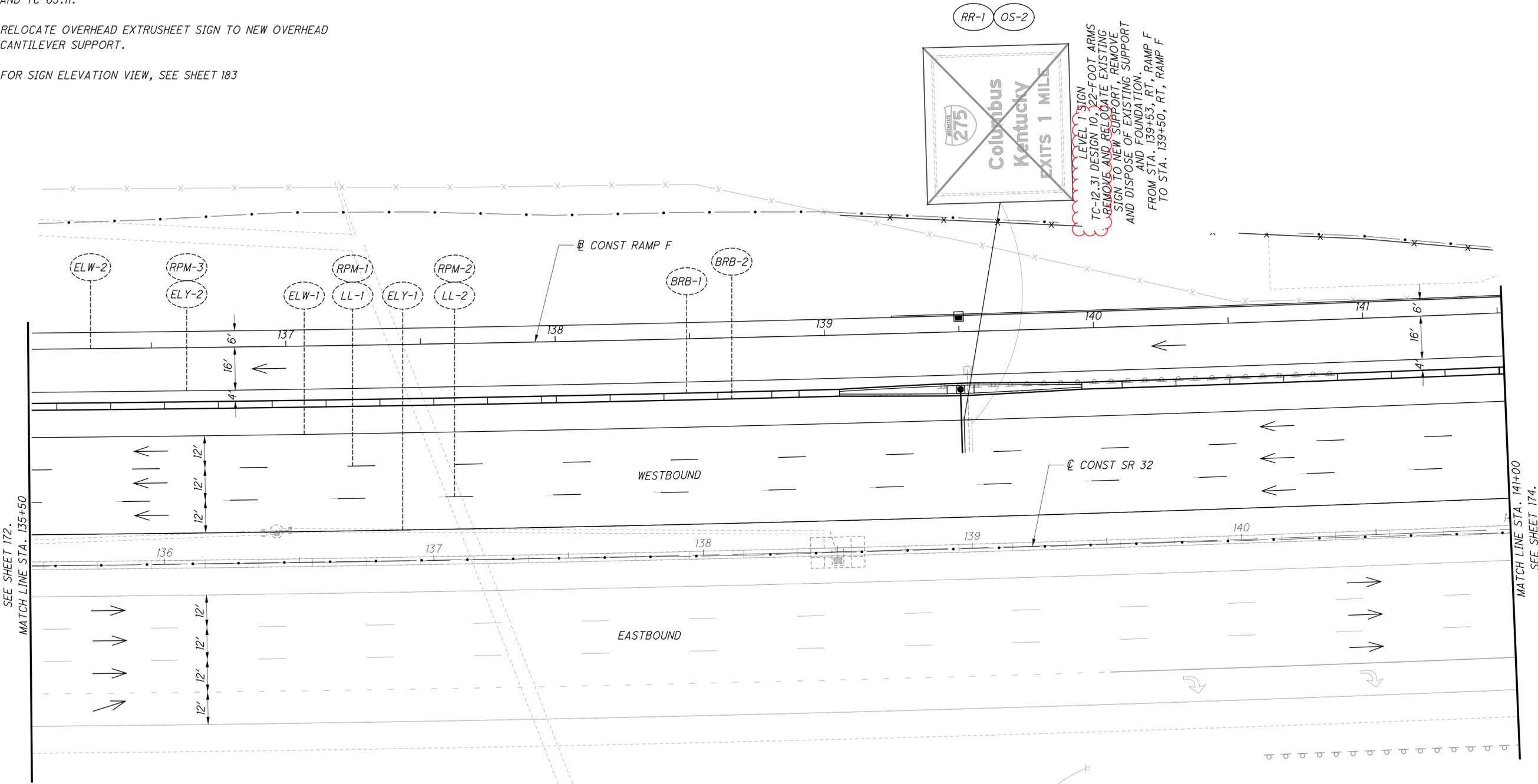
1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 168
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.
3. RELOCATE OVERHEAD EXTRUSHEET SIGN TO NEW OVERHEAD CANTILEVER SUPPORT.
4. FOR SIGN ELEVATION VIEW, SEE SHEET 183



CALCULATED
ACW
CHECKED
WAA

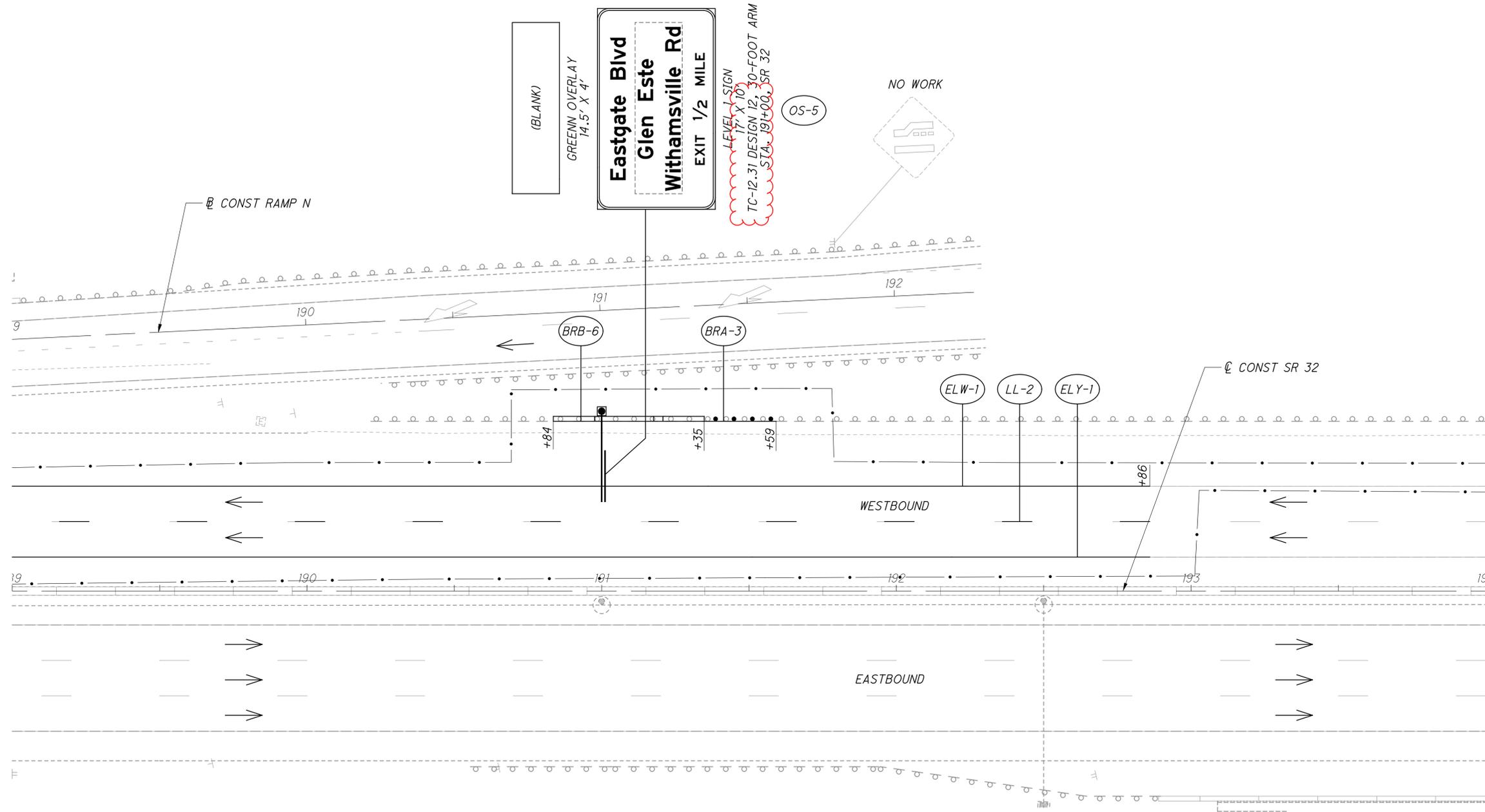
TRAFFIC CONTROL PLAN - SR 32
STA. 135+50 TO STA. 141+00

CLE-32-2.33
(PHASE 8)



...310.20\310.208\103957TP812.dgn 9/12/2023 6:42:32 PM ssopraseuth

...\\310.20\310.208\103957\TP822.dgn 9/12/2023 6:42:37 PM ssopraseuth



NOTES:

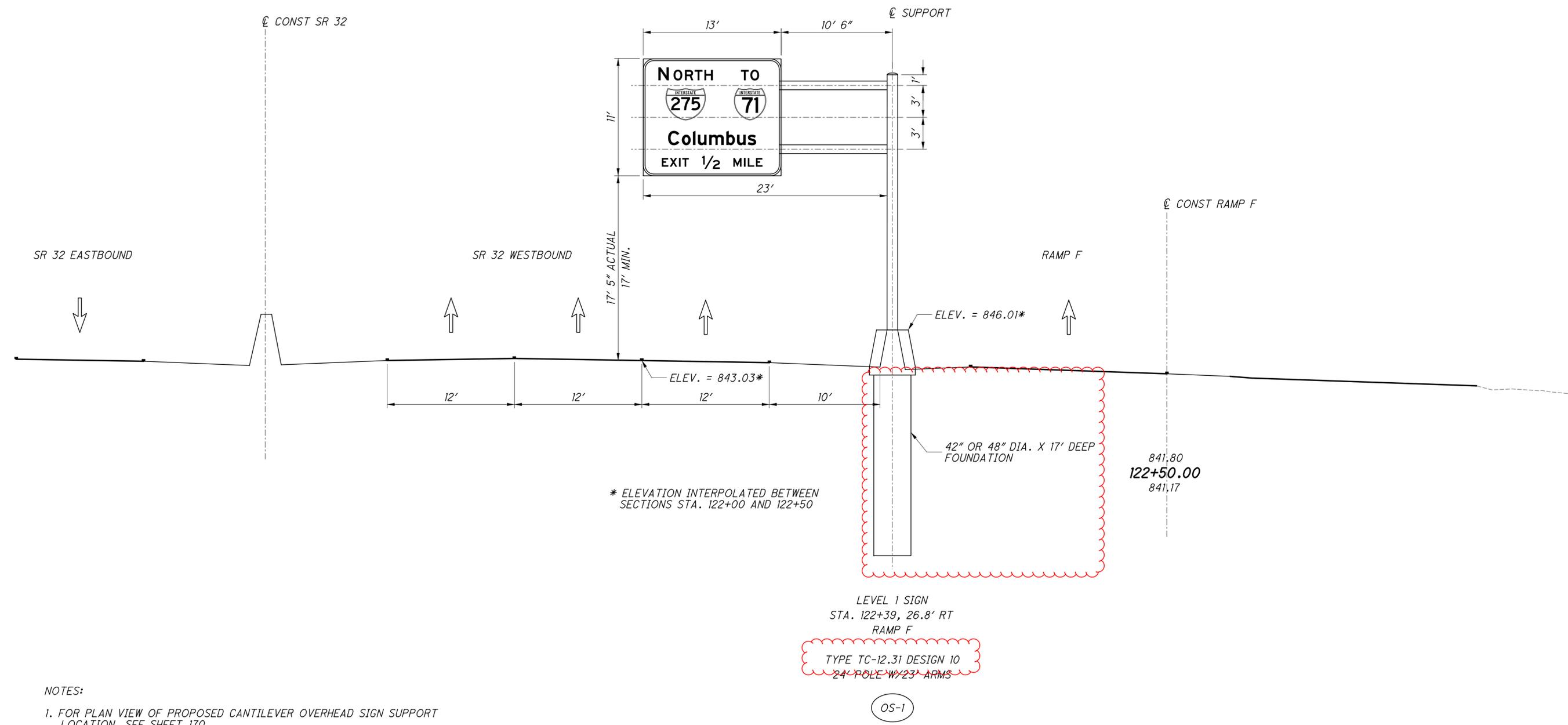
1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 168
2. COVER "GLEN ESTE WITHAMSVILLE RD" LEGEND WITH TEMPORARY OVERLAY SIGN PANEL.
3. FOR SIGN ELEVATION VIEW, SEE SHEET 186



CALCULATED	ACW
CHECKED	WAA

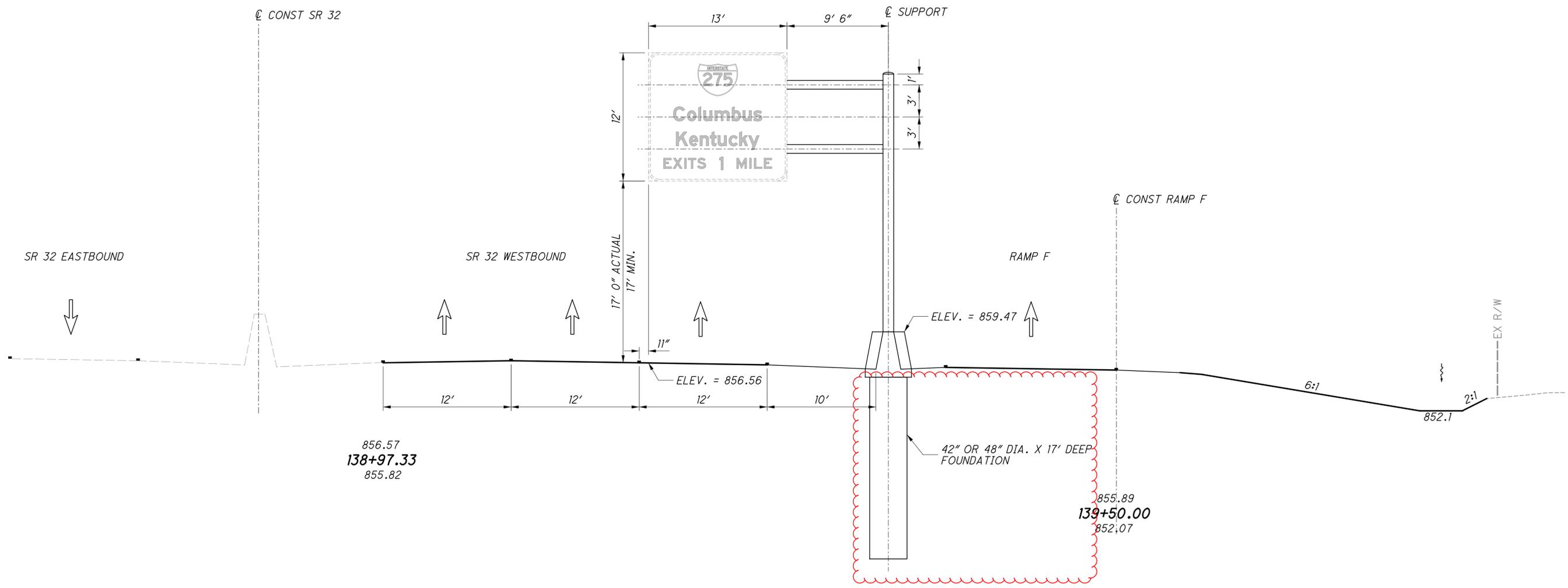
TRAFFIC CONTROL PLAN - SR 32
STA. 189+00 TO STA. 194+00

CLE-32-2.33
(PHASE 8)



- NOTES:
1. FOR PLAN VIEW OF PROPOSED CANTILEVER OVERHEAD SIGN SUPPORT LOCATION, SEE SHEET 170.
 2. CANTILEVER ARM DIAGONALS AND BRACES ARE NOT SHOWN FOR CLARITY.
 3. INSTALL CANTILEVER SIGN SUPPORT PER SCD **TC-12.31 AND TC-21.21.**

...310.20\310.208\103957TE801.dgn 9/12/2023 6:42:42 PM ssopraseuth



LEVEL 1 SIGN
REMOVE AND RELOCATE EXISTING
SIGN TO NEW SUPPORT, REMOVE
AND DISPOSE OF EXISTING SUPPORT
AND FOUNDATION.
FROM STA. 139+53, RT, RAMP F
TO STA. 139+50, RT, RAMP F
TC-12.31 DESIGN 10
24" POLE W/22" ARM

RR-1 OS-2

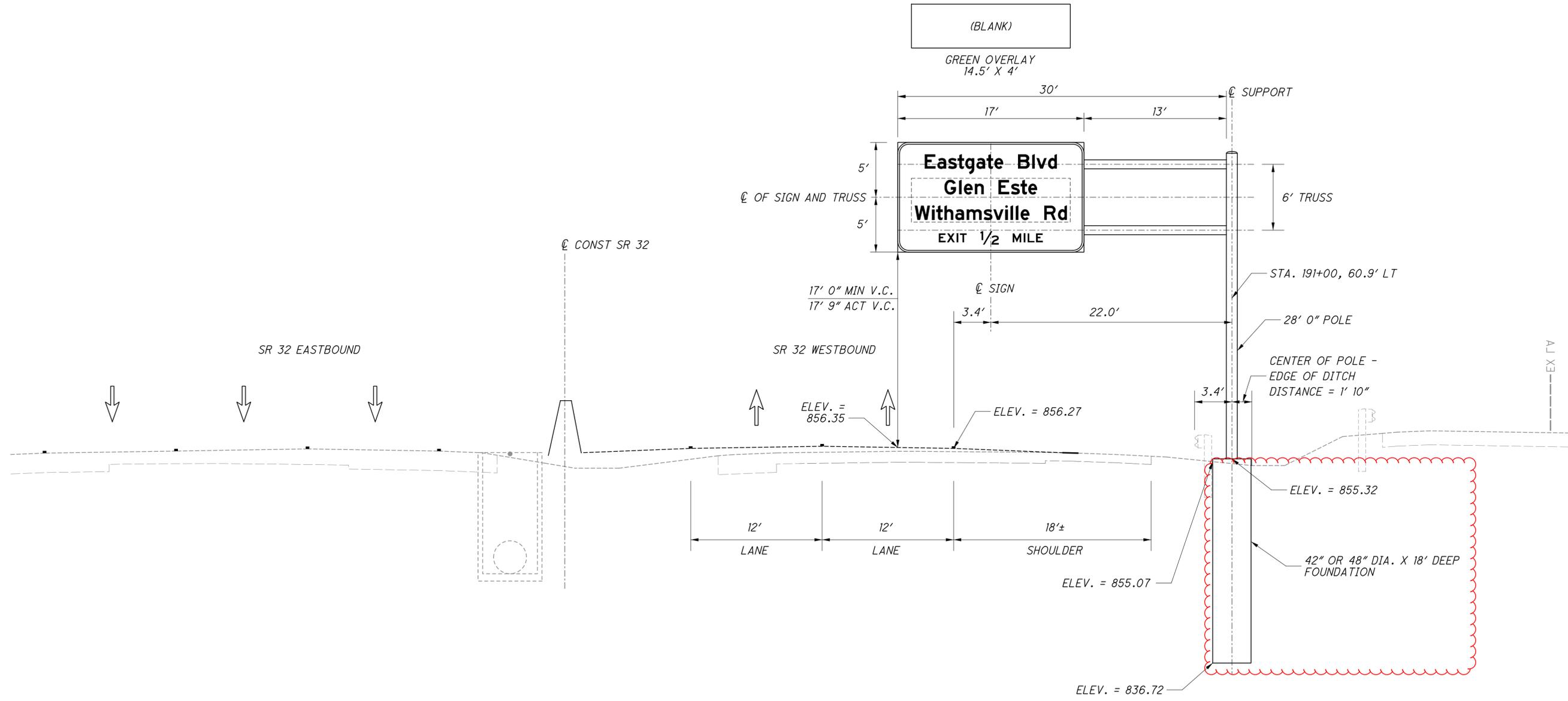
- NOTES:
1. FOR PLAN VIEW OF PROPOSED CANTILEVER OVERHEAD SIGN SUPPORT LOCATION, SEE SHEET 173.
 2. CANTILEVER ARM DIAGONALS AND BRACES ARE NOT SHOWN FOR CLARITY.
 3. INSTALL CANTILEVER SIGN SUPPORT PER SCD TC-12.31 AND TC-21.21.

...310.20\310.208\103957TE802.dgn 9/12/2023 6:42:51 PM ssopraseuth

...\\310.20\310.208\103957\TE805.dgn 9/12/2023 6:43:00 PM ssopraseuth

CALCULATED	hjt
CHECKED	ccw

0 5 10
2.5
HORIZONTAL
SCALE IN FEET



NOTES:

1. FOR PLAN VIEW OF PROPOSED CANTILEVER OVERHEAD SIGN SUPPORT LOCATION, SEE SHEET 180
2. CANTILEVER SIGN TRUSS NOT SHOWN FOR CLARITY.
3. INSTALL CANTILEVER SIGN SUPPORT PER SCD TC-12.31 AND TC-21.21.

LEVEL 1 SIGN
STA. 191+00, 60.9' LT
SR 32
TYPE TC-12.31 DESIGN 12
28' POLE W/ 30' ARMS

OS-5

SIGN ELEVATION VIEW
SR 32

CLE-32-2.33
(PHASE 8)

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS. IN ADDITION, UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" (DND) IN THE PLANS, REMOVE ALL TREES, STUMPS, AND BUSHES WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	19	0	19
30"	3	0	3

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2	EACH
659, TOPSOIL	1,002	CU. YD.
659, SEEDING AND MULCHING	9,025	SQ. YD.
659, REPAIR SEEDING AND MULCHING	451	SQ. YD.
659, INTER-SEEDING	451	SQ. YD.
659, COMMERCIAL FERTILIZER	1.26	TON
659, LIME	1.86	ACRES
659, WATER	50	M GALS
659, MOWING	20	M SQ. FT.

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

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

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

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

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

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

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

ITEM SPECIAL: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION

ALL CONCRETE SHALL BE TESTED. ALL TESTING, INSPECTION AND QUALITY CONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES, CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL, THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CONSTRUCTION AND MATERIAL SPECIFICATIONS 455.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S) AND EQUIPMENT AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE PLACEMENT.

THE TECHNICIANS SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE ODOT PROJECT ENGINEER OF ANY FAILING TESTS AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICATION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF CONCRETE MIX NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANT SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS, TE-45'S, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE TESTING WORK.

THE ODOT PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR.

ITEM SPECIAL: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION (CONTINUED)

THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY THE CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO. AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAYMENT SHALL BE BID AS LUMP SUM FOR ITEM SPECIAL STRUCTURES: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION. THE ITEM WILL BE PAID FOR AS FOLLOWS:

UPON APPROVAL OF CONSULTANT	20%
PROGRESSIVE EQUIVALENT PAYMENTS	50%
UPON SUBMISSION OF FINAL REPORT	30%

THE TECHNICIAN SHALL HAVE THE FULL EFFECT AND AUTHORITY OF AN ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND CONCRETE PLACEMENT PRACTICES.

ITEM 202 - REMOVAL MISC.: PRIVATE SIGN AND FOUNDATION

THIS ITEM CONSISTS OF REMOVING ANY TYPE OF ABOVE GROUND SIGN FOUNDATION AS WELL AS THE COMPLETE ABOVE GROUND SIGN STRUCTURE. THE SIGN LOCATIONS, FOUNDATION TYPES, AND APPROXIMATE SIZES ARE AS LISTED IN THE CHART BELOW. THIS ITEM SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL MATERIAL ASSOCIATED WITH THE SIGN AND FOUNDATION TO ONE FOOT BELOW THE EXISTING GRADE. ANY REMAINING HOLE FROM THE REMOVAL OF THE SIGN SHALL BE FILLED.

REFERENCE NO.	SHEET NO.	PARCEL NO.	LOCATION	FOUNDATION DESCRIPTION	FOUNDATION SIZE OR FOOTPRINT	SIGN FACE SIZE
R-7	57	141	EAST OF GLEN ESTE WITHAMSVILLE STA 14+89 AND SOUTH OF PRIVATE DRIVE	NONE EXPOSED	1.2' x 6'	10' x 6'
R-27	57	141	EAST OF GLEN ESTE WITHAMSVILLE STA 15+58 AND NORTH OF PRIVATE DRIVE	ABOVE GROUND MASONRY	2' x 9' x 3'	8' x 5'
R-29	57	430	EAST OF GLEN ESTE WITHAMSVILLE STA 16+95 AND NORTH OF PRIVATE DRIVE	2 WOOD POSTS	.3' DIA POSTS	8.1' x 5.5'
R-36	58	430	EAST OF GLEN ESTE WITHAMSVILLE STA 18+70 AND SOUTH OF SR-32	STEEL STRUCTURE WITH CONCRETE FOOTERS	17.9' x 1.6' x 35.0'	
R-78	59	817	WEST OF GLEN ESTE WITHAMSVILLE STA 25+45 AND SOUTH OF EASTGATE NORTH	ABOVE GROUND CONCRETE	10' x 25' x 4'	20' x 10'
R-80	59	710	WEST OF GLEN ESTE WITHAMSVILLE STA 25+45 AND SOUTH OF EASTGATE NORTH	2 WOOD POSTS	(2) .3' POSTS	3.7' x 0.35' x 3.3'
R-101	62	143	SOUTH OF EASTGATE SOUTH STA 55+45 AND WEST OF GLEN ESTE WITHAMSVILLE	STEEL STRUCTURE WITH CONCRETE FOOTERS	(2) 1.0' x 1.0' POSTS	11.5' x 1.1' x 26.7'
R-102	62	146	NORTH OF EASTGATE SOUTH STA 54+83 AND WEST OF GLEN ESTE WITHAMSVILLE	STEEL PIPES (CONCRETE FOOTERS ASSUMED)	(2) .3' DIA POSTS	3.1' x 1.2' x 3.5'
R-103	62	146	NORTH OF EASTGATE SOUTH STA 55+25 AND WEST OF GLEN ESTE WITHAMSVILLE	STEEL PIPES (CONCRETE FOOTERS ASSUMED)	.3' DIA POSTS	3.1' x 1.2' x 3.5'
R-127	64	150	SOUTH EASTGATE NORTH STA 48+45 AND EAST OF GLEN ESTE WITHAMSVILLE	NONE EXPOSED	6.1' x 2.0' x 6.6'	
R-142	67	710	SOUTH OF RAMP R STA 144+35 AND NORTH OF SR-32 (EAST OF GEW)	STEEL POSTS WITH CONCRETE FOOTERS	(2) 2.0' x 2.0' POSTS	18.5' x 1.4' x 29.6'

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET 49 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 11 HOURS.

DRAINAGE AT INTERSECTION STREETS

AT INTERSECTING STREETS WHERE THE DRAINAGE IS TOWARD OR INTO THE PROJECT, SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR TO MAINTAIN PROPER GRADE ALONG THE EDGE OF PAVEMENT SO THAT WATER WILL NOT POND. AT INTERSECTING STREETS, WHERE THE EDGE OF PAVEMENT CONTINUES ACROSS THE STREET, CARE SHALL BE TAKEN TO FEATHER DOWN AND FORM A NEAT SEAM WITH THE PROPER GRADE.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

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

CLEAN WATER CONNECTIONS TO SANITARY SEWERS

ROOF DRAINS, FOUNDATION DRAINS, DRAIN TILES, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

PONDING

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ALL AREAS THAT HOLD WATER AFTER CONSTRUCTION OF THE CURB RAMPS. THESE AREAS INCLUDE ANY AND ALL AREAS WITHIN THE PEDESTRIAN RIGHT-OF-WAY APPROACHING AND LEAVING THE NEWLY CONSTRUCTED CURB RAMP. AREAS OF PONDING CANNOT BE IDENTIFIED UNTIL AFTER ADEQUATE RAINFALL HAS OCCURRED AND REPAIR TO THESE AREAS WILL NOT OCCUR UNTIL AFTER SUCH TIME.

TYING INTO EXISTING DRAINAGE STRUCTURES

WHEN A PROPOSED CONDUIT IS BEING TIED INTO AN EXISTING DRAINAGE STRUCTURE, THE HOLE BEING MADE IN THE EXISTING STRUCTURE TO RECEIVE THE PROPOSED CONDUIT SHALL BE A CORED HOLE. FOR CONDUITS OVER 24", THE HOLE CAN BE NEATLY SAWED INSTEAD OF CORED.

THE COST OF TYING INTO AN EXISTING DRAINAGE STRUCTURE SHALL BE INCLUDED IN THE COST OF INSTALLING ITEM 611 CONDUIT.

FENCE LENGTHS

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

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

EXISTING SUBSURFACE DRAINAGE

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

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

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

601, TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	4 SQ. YD.
605, 6" UNCLASSIFIED PIPE UNDERDRAINS	100 FT.
605, AGGREGATE DRAINS	100 FT.
611, 6" CONDUIT, TYPE F	100 FT.
611, PRECAST REINFORCED CONCRETE OUTLET	2 EACH

POST CONSTRUCTION STORM WATER TREATMENT

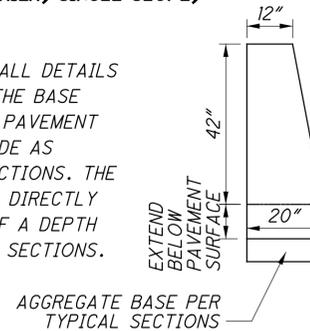
BMPS HAVE BEEN PROVIDED FOR OTHER PHASES OF THE SEGMENT IVa PROJECT TO ACCOUNT FOR ALL OF THE PROJECTS' EDA ACTIVITIES. THERE ARE NO PROPOSED BMPS FOR THIS PHASE OF THE PROJECT.

ITEM 204 - GRANULAR MATERIAL, TYPE C, AS PER PLAN

PROVIDE, PLACE AND COMPACT GRANULAR MATERIAL TYPE C CONSISTING OF CRUSHED CARBONATE STONE AT LOCATIONS AND LIMITS INDICATED. ALL REQUIREMENTS OF ITEM 204 APPLY TO THIS ITEM.

ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN

THIS ITEM SHALL FOLLOW ALL DETAILS ON RM-4.5 EXCEPT THAT THE BASE SHALL EXTEND BELOW THE PAVEMENT SURFACE OR FINISHED GRADE AS SHOWN IN THE TYPICAL SECTIONS. THE BARRIER SHALL BE PLACED DIRECTLY ON AN AGGREGATE BASE OF A DEPTH AS SHOWN IN THE TYPICAL SECTIONS.



ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

GRADE CHANGES

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING APPURTENANCE TO BE CONNECTED DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS. IF IT IS DETERMINED THAT THE PROPOSED SEWER WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

GRADES AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE ENGINEER. INVERT ELEVATIONS SHALL NOT DEVIATE FROM THE PLAN ELEVATION BY MORE THAN 0.05 FOOT. FAILING TO MEET THE ABOVE REQUIREMENTS IS CAUSE FOR REJECTION OF THE AFFECTED SECTION OF SEWER.

ITEM 202 - REMOVAL MISC.: MODULAR BLOCK LANDSCAPE WALL

THIS ITEM CONSISTS OF REMOVING A MODULAR BLOCK WALL USED FOR LANDSCAPING WITH A MAXIMUM EXPOSED HEIGHT OF APPROXIMATELY TWO FEET. THIS ITEM SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL WALL UNITS AND ANY ASSOCIATED MATERIALS ABOVE AND BELOW GROUND. BACKFILL OF HOLES IS NOT NECESSARY AS THE AREA WILL BE COVERED BY THE GENERAL PROPOSED GRADING WORK.

ITEM 421 - MICROSURFACING, SURFACE COURSE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 421, THE FOLLOWING SHALL APPLY. REPLACE THE CONTENT OF SECTION 421.05 WEATHER LIMITATIONS WITH THE FOLLOWING: "APPLY THE MIXTURE ONLY WHEN IT IS NOT RAINING, PAVEMENT HAS NO STANDING WATER, AND THE EXISTING PAVEMENT SURFACE AND ATMOSPHERIC TEMPERATURE IS A MINIMUM OF 50°F (10°C) AND RISING AND THERE IS NO FORECAST OF AN ATMOSPHERIC TEMPERATURE BELOW 40°F (4°C) WITHIN 24 HOURS FROM THE TIME THE MIXTURE IS APPLIED. DO NOT APPLY THE MIXTURE BETWEEN THE HOURS OF 7 PM TO 7 AM FROM SEPTEMBER 1 TO APRIL 30 UNLESS APPROVED BY THE ODOT DISTRICT 8 TEST LAB ENGINEER."

9/14/2023 8:17:55 AM mswwhitt

CALCULATED
MSW
CHECKED
GHM

GENERAL NOTES

CLE - CR55 - OVRPASS
(PHASE 9)

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE ENGINEER

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE IN ACCORDANCE WITH SCD DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING, OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611, INSPECTION WELL.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALE WHEN OUTLETTING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN

FURNISH AN EROSION CONTROL PAD AS SHOWN IN SCD DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH. THE COST FOR THE EROSION CONTROL PAD IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WITH A HOLE WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING, OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION
THE CONTRACTOR SHALL FURNISH WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE DISTRICT R/W PERMIT OFFICE. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203, EMBANKMENT AS PER PLAN

DRAINAGE DISCHARGE CONTINUANCE REMOVAL
THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE DISCHARGE CONTINUANCE TO BE REMOVED.

REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF WAY LINE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC 1 CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE CONDUIT. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS QC 1 CONCRETE AND RESTORE ALL AREAS AS REQUIRED. ALL COSTS ARE INCLUDED IN ITEM 202, REMOVAL MISC. CONDUIT.

DAM THE SWALE THAT OUTLETS TO THE DITCH AT THE R/W AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN

REMOVE THE INSPECTION WELL AND RESTORE ALL AREAS AS REQUIRED. THE COST IS INCLUDED IN ITEM 202, REMOVAL MISC. INSPECTION WELL.

CONDUIT MATERIAL TYPES
THE FOLLOWING CONDUIT MATERIAL TYPES MAY BE USED:
707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, AND 707.52 SDR35.

PAY ITEMS
EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPES B, C, E AND F FOR DRAINAGE DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO 10 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN THESE PAY ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

ITEM 611, 1 EACH INSPECTION WELL
ITEM 611, 5 FT.CONDUIT, MISC TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE
ITEM 611, 5 FT.CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE
ITEM 611, 5 FT.CONDUIT, MISC TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE
ITEM 611, 5 FT.CONDUIT, MISC TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE
ITEM 202, 10 FT. REMOVAL MISC CONDUIT
ITEM 202, 1 EACH REMOVAL MISC INSPECTION WELL
ITEM 203, 50 CUBIC YARD EMBANKMENT AS PER PLAN A

CALCULATED
MSW
CHECKED
GHM

GENERAL NOTES

**CLE - CR55 - OVRPASS
(PHASE 9)**

15A
353

15A 353 2019 10 23 08 32 14 AM

...303209\103958_CG901.dgn 9/14/2023 9:07:27 AM mswwhitt

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
14	15	15A	38	42	43	44	46	49	122	290		02/NHS/08	EXT	TOTAL		SHEET NO.		
ROADWAY																		
LS												LS	201	11000	LS	CLEARING AND GRUBBING		
			1									1	202	20010	1	EACH	HEADWALL REMOVED	
			20,087									20,087	202	23000	20,087	SY	PAVEMENT REMOVED	
			5,684									5,684	202	30000	5,684	SF	WALK REMOVED	
			31									31	202	30600	31	SY	CONCRETE MEDIAN REMOVED	
			241									241	202	30700	241	FT	CONCRETE BARRIER REMOVED	
			3,024									3,024	202	32000	3,024	FT	CURB REMOVED	
			4,109									4,109	202	32500	4,109	FT	CURB AND GUTTER REMOVED	
			2,183									2,183	202	35100	2,183	FT	PIPE REMOVED, 24" AND UNDER	
			769									769	202	35200	769	FT	PIPE REMOVED, OVER 24"	
			753									753	202	38000	753	FT	GUARDRAIL REMOVED	
			8									8	202	58000	8	EACH	MANHOLE REMOVED	
			41									41	202	58100	41	EACH	CATCH BASIN REMOVED	
			585									585	202	75000	585	FT	FENCE REMOVED	
			11									11	202	98100	11	EACH	REMOVAL MISC.: PRIVATE SIGN AND FOUNDATION	14
			1									1	202	98100	1	EACH	REMOVAL MISC.: INSPECTION WELL	15A
			10									10	202	98200	10	FT	REMOVAL MISC.: CONDUIT	15A
			72									72	202	98200	72	FT	REMOVAL MISC.: MODULAR BLOCK LANDSCAPE WALL	15
			2,715									2,715	203	10000	2,715	CY	EXCAVATION	
			30,253									30,253	203	20000	30,253	CY	EMBANKMENT	
			15,615									15,615	203	20001	15,615	CY	EMBANKMENT, AS PER PLAN	249
			50									50	203	20001	50	CY	EMBANKMENT, AS PER PLAN A	15A
			4,320									4,320	203	35111	4,320	CY	GRANULAR MATERIAL, TYPE B, AS PER PLAN	249
												22,603	204	10000	22,603	SY	SUBGRADE COMPACTION	
												2,349	204	13000	2,349	CY	EXCAVATION OF SUBGRADE	
												2,349	204	30021	2,349	CY	GRANULAR MATERIAL, TYPE C, AS PER PLAN	15
												11	204	45000	11	HOUR	PROOF ROLLING	
												3,524	204	50000	3,524	SY	GEOTEXTILE FABRIC	
												46	SPECIAL	45131000	46	FT	PRESSURE RELIEF JOINT, TYPE B	122
					862.5	262.5						1,125	606	15050	1,125	FT	GUARDRAIL, TYPE MGS	
					75							75	606	15150	75	FT	GUARDRAIL, TYPE MGS HALF POST SPACING	
					2							2	606	26150	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E [MASH 2016]	
					2	2						4	606	26550	4	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
					1	2						3	606	35002	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
					1	2						3	606	35102	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
					305							305	607	23000	305	FT	FENCE, TYPE CLT	
					305							305	607	70000	305	FT	FENCELINE SEEDING AND MULCHING	
					4,944							4,944	608	12000	4,944	SF	5" CONCRETE WALK	
					214							214	608	13000	214	SF	6" CONCRETE WALK	
					100							100	608	52000	100	SF	CURB RAMP	
						153						153	622	10140	153	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	
					152	338						490	622	10161	490	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	15
					2							2	622	25000	2	EACH	CONCRETE BARRIER END SECTION, TYPE D	
					3							3	622	25014	3	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	
					2	4						6	622	25050	6	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
												9	623	38500	9	EACH	MONUMENT ASSEMBLY, TYPE C	
												78	623	40520	78	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
					2	1						3	SPECIAL	69050100	3	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	15
LS												LS	SPECIAL	69098400	LS		CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	14
												LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
EROSION CONTROL																		
												4	601	21050	4	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
												12	601	21060	12	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
												2	659	00100	2	EACH	SOIL ANALYSIS TEST	
												1,002	659	00300	1,002	CY	TOPSOIL	
												9,025	659	10000	9,025	SY	SEEDING AND MULCHING	
												451	659	14000	451	SY	REPAIR SEEDING AND MULCHING	
												451	659	15000	451	SY	INTER-SEEDING	
												1.26	659	20000	1.26	TON	COMMERCIAL FERTILIZER	
												1.86	659	31000	1.86	ACRE	LIME	

GENERAL SUMMARY

CLE-CR55-OVRPASS (PHASE 9)

31

353

...303,209\103958_CG901.dgn 9/14/2023 9:07:48 AM mswwhitt

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
14	15	15A	46	48	43	44	49	55				02/NHS/08	EXT	TOTAL				
EROSION CONTROL (CONT.)																		
50												50	659	35000	50	MGAL	WATER	
20												20	659	40000	20	MSF	MOWING	
			46									46	670	00710	46	SY	DITCH EROSION PROTECTION MAT, TYPE A	
								LS				LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
								LS				LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
								LS				LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
								143,279				143,279	832	30000	143,279	EACH	EROSION CONTROL	
DRAINAGE																		
			0.3									0.3	602	20000	0.3	CY	CONCRETE MASONRY	
100												100	605	13300	100	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
								7,934				7,934	605	14000	7,934	FT	6" BASE PIPE UNDERDRAINS	
100												100	605	31100	100	FT	AGGREGATE DRAINS	
								701				701	611	00510	701	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
			5									5	611	01100	5	FT	6" CONDUIT, TYPE C	
100												100	611	01500	100	FT	6" CONDUIT, TYPE F	
			920									920	611	04400	920	FT	12" CONDUIT, TYPE B	
			120									120	611	04400	120	FT	12" CONDUIT, TYPE B, 706.02, JOINTS PER 706.11	
			117									117	611	04600	117	FT	12" CONDUIT, TYPE C	
			221									221	611	05900	221	FT	15" CONDUIT, TYPE B	
			35									35	611	05900	35	FT	15" CONDUIT, TYPE B, 706.02, JOINTS PER 706.11	
			79									79	611	06100	79	FT	15" CONDUIT, TYPE C	
			423									423	611	07400	423	FT	18" CONDUIT, TYPE B	
			410									410	611	07400	410	FT	18" CONDUIT, TYPE B, 706.02, JOINTS PER 706.11	
			148									148	611	07600	148	FT	18" CONDUIT, TYPE C	
			201									201	611	10400	201	FT	24" CONDUIT, TYPE B	
			406									406	611	10600	406	FT	24" CONDUIT, TYPE C	
			250									250	611	13400	250	FT	30" CONDUIT, TYPE B	
			598									598	611	13600	598	FT	30" CONDUIT, TYPE C	
			5									5	611	97400	5	FT	CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE	
			5									5	611	97400	5	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	
			5									5	611	97400	5	FT	CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	
			5									5	611	97400	5	FT	CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE	
			17									17	611	98150	17	EACH	CATCH BASIN, NO. 3	
			6									6	611	98180	6	EACH	CATCH BASIN, NO. 3A	
			1									1	611	98370	1	EACH	CATCH BASIN, NO. 6	
			1									1	611	98410	1	EACH	CATCH BASIN, NO. 8	
			1									1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
			1									1	611	98510	1	EACH	CATCH BASIN, NO. 2-3	
			2									2	611	98630	2	EACH	CATCH BASIN ADJUSTED TO GRADE	
			1									1	611	98635	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN	
			15									15	611	99574	15	EACH	MANHOLE, NO. 3	
			11									11	611	99654	11	EACH	MANHOLE ADJUSTED TO GRADE	
			2									2	611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	
2												2	611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
			1									1	611	99720	1	EACH	INSPECTION WELL	
PAVEMENT																		
								431				431	254	01000	431	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.5")	
								3,525				3,525	302	56000	3,525	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
								3,869				3,869	304	20000	3,869	CY	AGGREGATE BASE	
								2,642				2,642	407	20000	2,642	GAL	NON-TRACKING TACK COAT	
								16,119				16,119	421	10011	16,119	SY	MICROSURFACING, SURFACE COURSE, AS PER PLAN	
								29				29	441	50000	29	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
								40				40	441	50300	40	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
								884				884	442	10000	884	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
								1,015				1,015	442	10080	1,015	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
								176				176	452	12010	176	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
								243				243	452	14110	243	SY	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
								108				108	452	19001	108	SY	VARIABLE THICKNESS NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN	
							84	188				272	609	12000	272	FT	COMBINATION CURB AND GUTTER, TYPE 2	
								82				82	609	14000	82	FT	CURB, TYPE 2-A	
							764	462				1,226	609	24510	1,226	FT	CURB, TYPE 4-C	
							845	1,156				2,001	609	26000	2,001	FT	CURB, TYPE 6	
							180					180	609	26001	180	FT	CURB, TYPE 6, AS PER PLAN	
							50	51				101	609	58000	101	SY	9" CONCRETE TRAFFIC ISLAND	

CALCULATED MSW CHECKED GHM
GENERAL SUMMARY
CLE - CR55 - OVRPASS (PHASE 9)
 32
 353

...303.209\103958_CS901.dgn 9/13/2023 5:06:14 AM mswhtt

SHEET NO.	STATION		203	203	203	203	659
			EXCAVATION	EMBANKMENT	EMBANKMENT, AS PER PLAN	GRANULAR MATERIAL, TYPE B, APP	SEEDING AND MULCHING
	FROM	TO	CY	CY	CY	CY	SY
<i>GLEN ESTE-WITHAMSVILLE</i>							
68	12+50.00	13+50.00	18	18			59
69	14+00.00	15+00.00	76	343			242
70	15+30.47	16+50.00	6	1948			53
71	17+00.00	17+50.00	18	3395			305
72	18+00.00	18+50.00	22	1484	4011		549
73	18+80.98		3		2084		169
74	19+13.07				423	2120	211
75	21+19.30		-	-	-	-	-
76	21+51.39		3		679	2200	221
77	22+00.00		7		4390		396
78	22+50.00		16		4028		392
79	23+00.00		31	3553			346
80	23+50.00		25	3429			282
81	24+00.00	24+50.00	9	5887			520
82	25+00.00	25+50.00		4001			421
83	26+00.00	26+50.00		2239			308
84	27+00.00	27+50.00	3	925			131
85	28+00.00	29+00.00	206	149			191
86	29+50.00	30+50.00	348	22			331
87	31+00.00	32+00.00	39	12			80
GLEN ESTE-WITHAMSVILLE SUBTOTAL:			830	27,405	15,615	4,320	5,207
<i>EASTGATE SOUTH</i>							
88	53+00.00	53+50.00	16	5			66
89	54+00.00	54+50.00	28	192			213
90	55+00.00	55+50.00	12	684			239
EASTGATE SOUTH SUBTOTAL:			56	881			518
<i>EASTGATE NORTH</i>							
91	40+50.00	40+81.00	8	3			39
92	41+00.00	41+50.00	88	5			102
93	42+00.00	42+50.00	222				122
94	43+00.00	43+50.00	364				57
95	44+00.00	44+50.00	296				62
96	45+00.00	45+50.00	72	143			238
97	46+00.00	46+50.00		521			379
98	47+00.00	48+25.00		400			163
99	48+50.00	48+80.00	9	110			62
EASTGATE NORTH SUBTOTAL:			1059	1182			1224

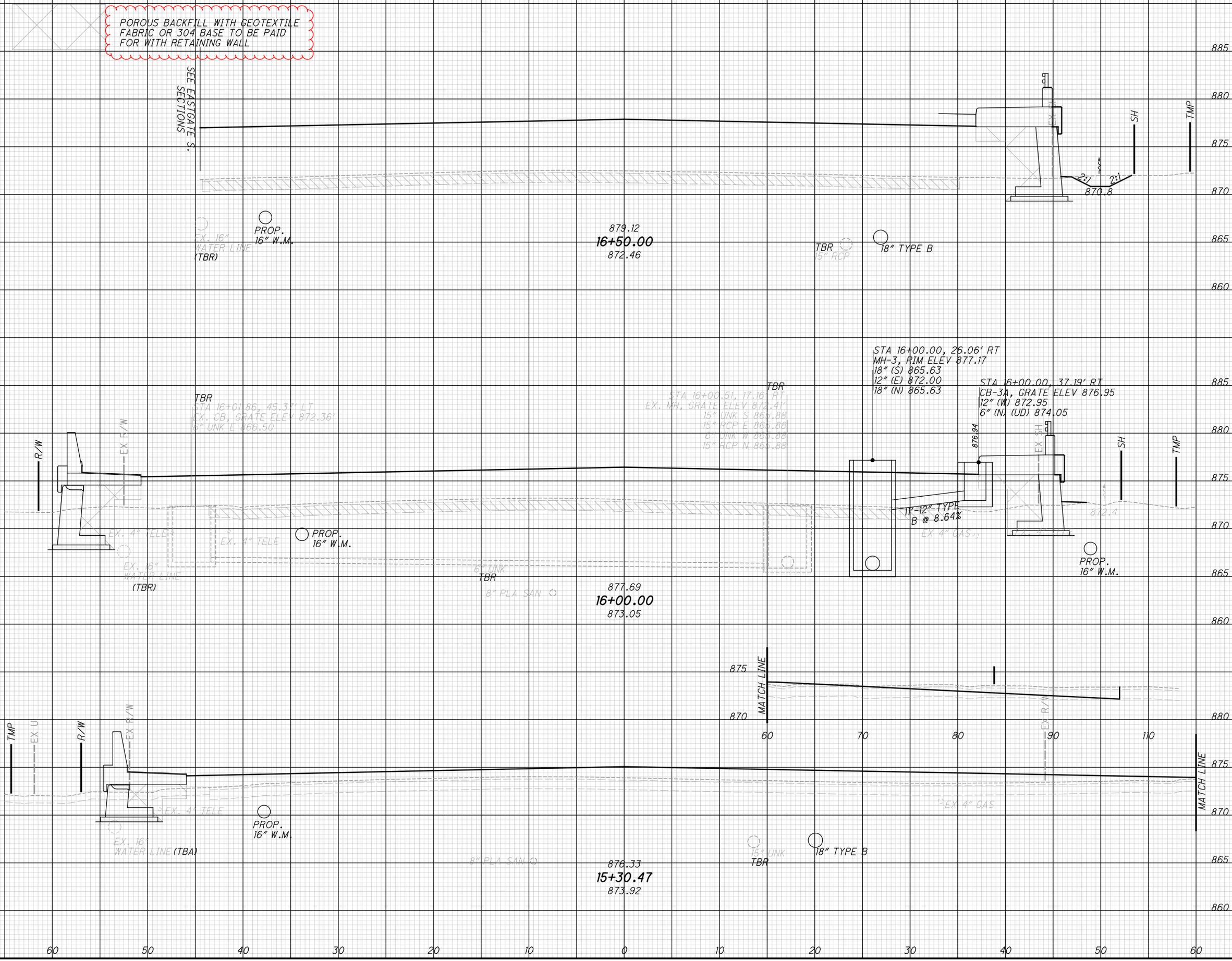
SHEET NO.	STATION		203	203	203	203	659
			EXCAVATION	EMBANKMENT	EMBANKMENT, AS PER PLAN	GRANULAR MATERIAL, TYPE B, APP	SEEDING AND MULCHING
	FROM	TO	CY	CY	CY	CY	SY
<i>SR-32 EB</i>							
100	134+50.00	135+50.00		11			30
101	136+00.00	137+00.00		41			86
102	137+50.00	138+00.00		39			75
103	138+50.00	139+50.00	18	78			205
104	140+00.00	141+00.00	103	87			520
105	141+50.00	142+50.00	20	85			219
106	143+00.00	144+00.00	1	23			100
107	144+50.00	145+50.00	499	9			450
108	146+00.00	146+50.00	114	12			177
SR-32 EB SUBTOTAL:			755	385			1862
<i>RAMP F</i>							
109	142+50.00	143+50.00	8	19			114
110	144+00.00	145+00.00		25			100
RAMP F SUBTOTAL:			8	44			214
<i>RAMP R</i>							
111	144+16.00	144+45.00	2	356			
112	144+74.75	145+00.00	5				
RAMP R SUBTOTAL:			7	356			
GRAND TOTALS CARRIED TO GENERAL NOTES							9,025
GRAND TOTALS CARRIED TO GENERAL SUMMARY			2,715	30,253	15,615	4,320	

...303.209\103958_XS901.dgn 9/13/2023 5:09:55 AM mswhitt

SEEDING	END WIDTH	SQ. YDS.	8	22	0	0	0	31	53	END AREA		VOLUME		CALCULATED	
										CUT	FILL	CUT	FILL	MSW	CHECKED
										5	550				
										1	398				
										1	847				
										0	261				
										0	224				
										6	1948				

POROUS BACKFILL WITH GEOTEXTILE FABRIC OR 304 BASE TO BE PAID FOR WITH RETAINING WALL

SEE EASTGATE S. SECTIONS



CROSS SECTIONS - GLEN ESTE WITHAMSVILLE RD.
STA. 15+30.47 TO STA. 16+50.00

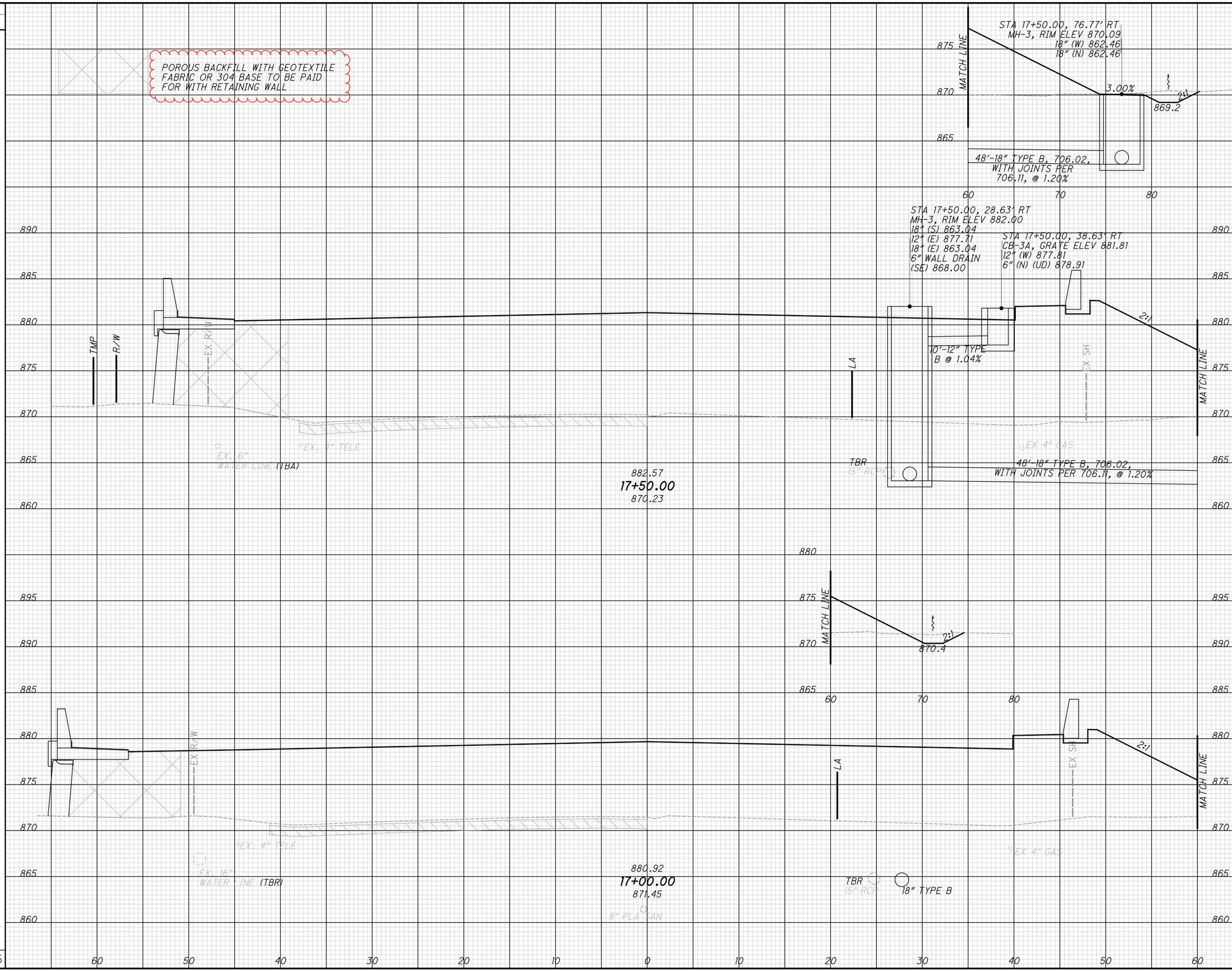
CLE-CR55-OVRPASS (PHASE 9)

70
353

...303.209\103958_XS901.dgn 9/13/2023 5:09:59 AM mswitt

SEEDING	
END WIDTH	SO. YDS.
305	
106	
30	
199	
41	

POROUS BACKFILL WITH GEOTEXTILE FABRIC OR 304 BASE TO BE PAID FOR WITH RETAINING WALL



END AREA		VOLUME		CALCULATED MSW	CHECKED MHT
CUT	FILL	CUT	FILL		
6	1202				
9	1999				
4	957				
18	3395				

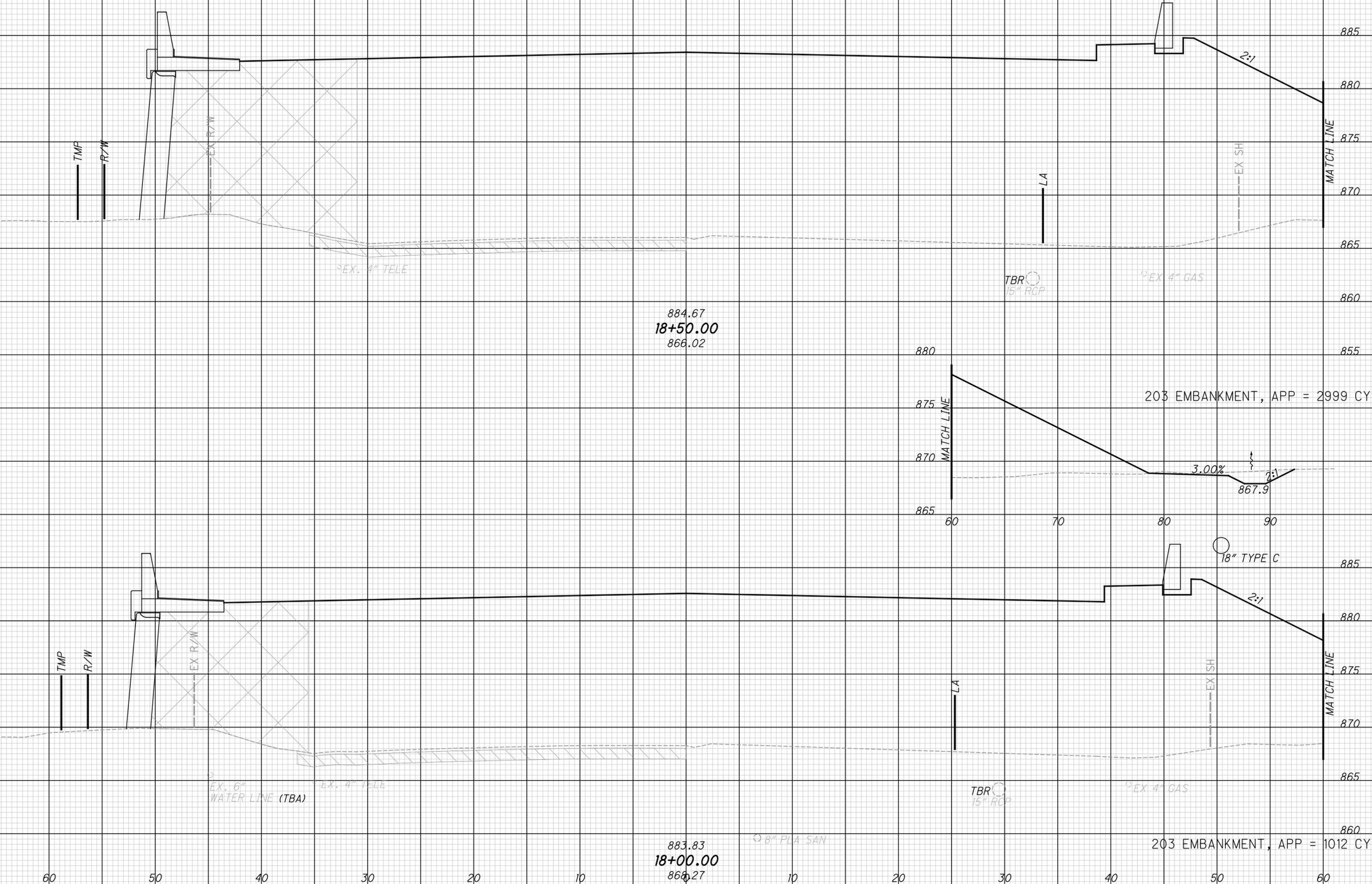
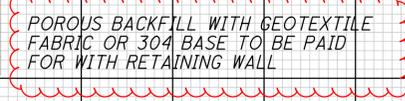
CROSS SECTIONS - GLEN ESTE WITHAMSVILLE RD.
STA. 17+00.00 TO STA. 17+50.00
CLE-CR55-OVRPASS (PHASE 9)

71
353

...303.209\103958_XS901.dgn 9/13/2023 5:10:00 AM mswhtt

SEEDING	END		SO.
	WIDTH	YDS.	
	57		
	296		
	50		
	253		
	549		

POROUS BACKFILL WITH GEOTEXTILE FABRIC OR 304 BASE TO BE PAID FOR WITH RETAINING WALL



STA 18+50.00, 94.33' RT
CB-2-2B, GRATE ELEV 866.69
18" (N&S) 860.23

884.67
18+50.00
866.02

203 EMBANKMENT, APP = 2999 CY

203 EMBANKMENT, APP = 1012 CY

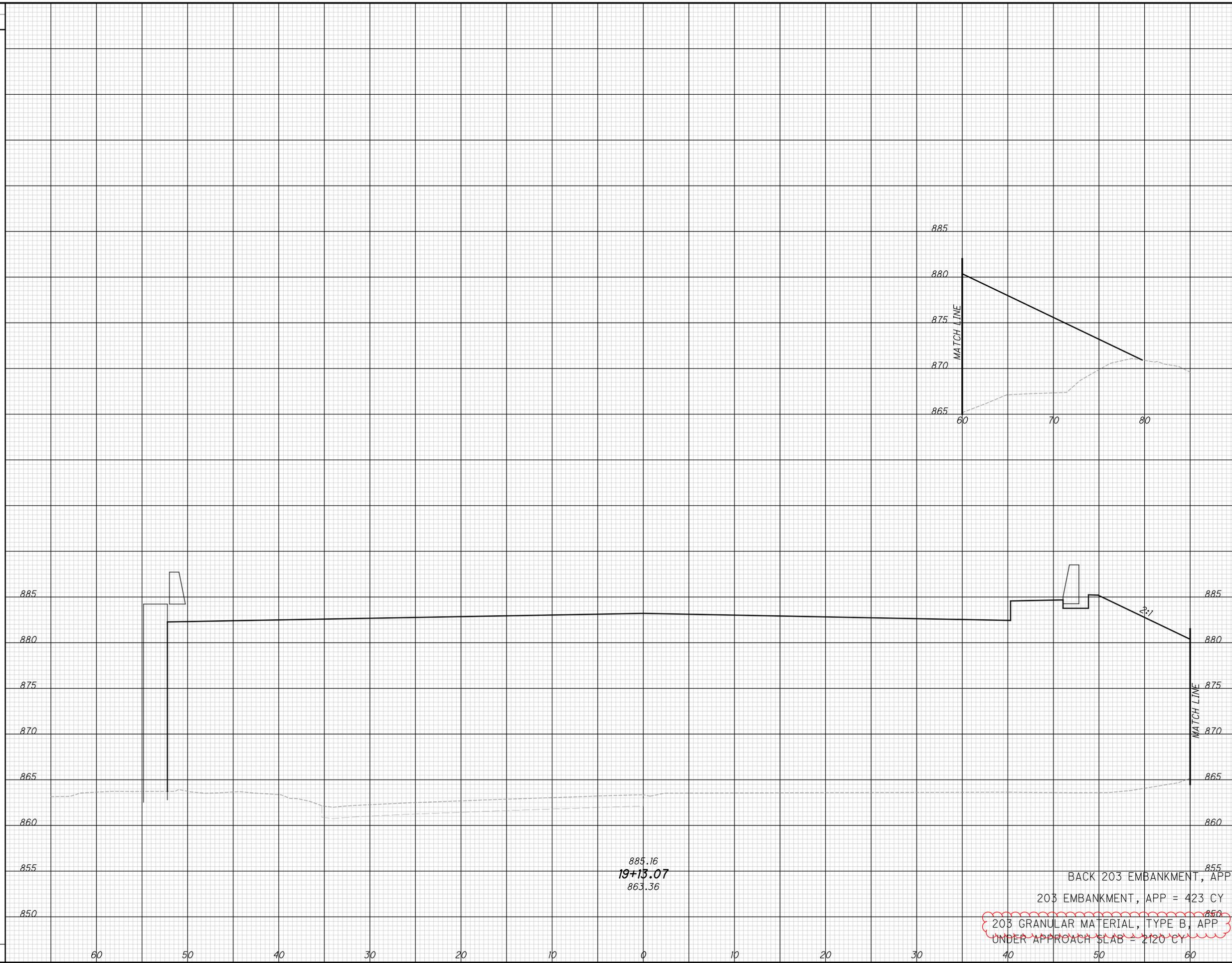
END AREA	VOLUME	CALCULATED	CHECKED						
				CUT	FILL	CUT	FILL	MSW	MHT
5	1745								
6	1494								
		11	1484						
		22	1484						

CROSS SECTIONS - GLEN ESTE WITHAMSVILLE RD.
STA. 18+00.00 TO STA. 18+50.00
CLE-CR55-OVRPASS (PHASE 9)

72
353

...303.209\103958_XS901.dgn 9/13/2023 5:10:02 AM mswhtt

SEEDING	
END WIDTH	SO. YDS.
77	211
211	211



885.16
 19+13.07
 863.36

BACK 203 EMBANKMENT, APP 0 361
 203 EMBANKMENT, APP = 423 CY
 203 GRANULAR MATERIAL, TYPE B, APP 0
 UNDER APPROACH SLAB = 2120 CY

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MSW	CHECKED
0	361	0	0		MHT
		0	0		

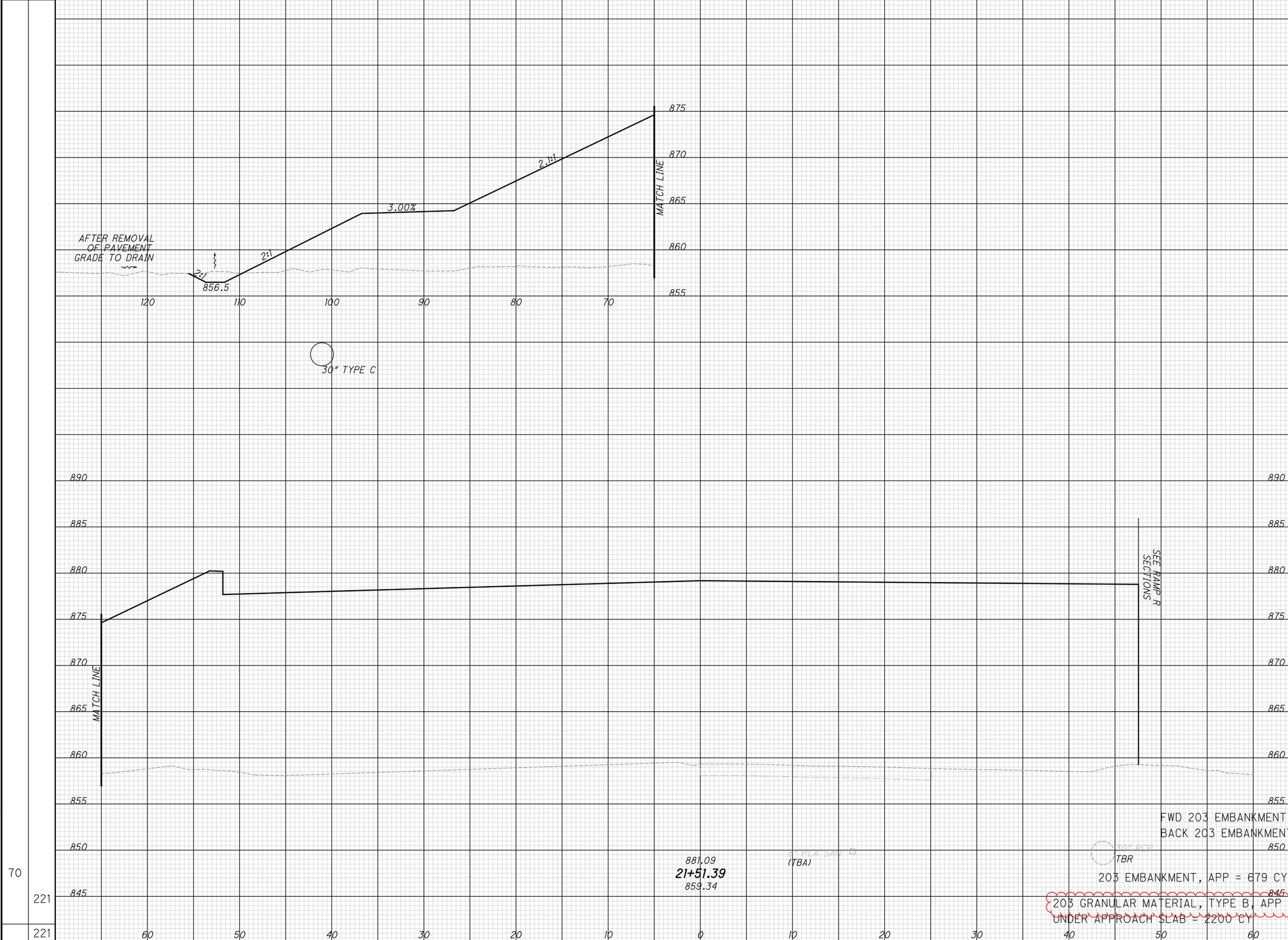
CROSS SECTIONS - GLEN ESTE WITHAMSVILLE RD.
 STA. 19+13.07
 CLE-CR55-OVRPASS
 (PHASE 9)

74
 353

...303.209\103958_XS901.dgn 9/13/2023 5:14:53 AM mswhtt

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MSW
CHECKED
MHT



END AREA	VOLUME
CUT	FILL
4	2601
	597
	3
	3
	0

CROSS SECTIONS - GLEN ESTE WITHAMSVILLE RD.
STA. 21+51.39
CLE-CR55-OVRPASS (PHASE 9)
 76
 353

FWD 203 EMBANKMENT
 BACK 203 EMBANKMENT
 203 EMBANKMENT, APP = 679 CY
 203 GRANULAR MATERIAL, TYPE B, APP
 UNDER APPROACH SLAB = 2200 CY

881.09
21+51.39
 859.34

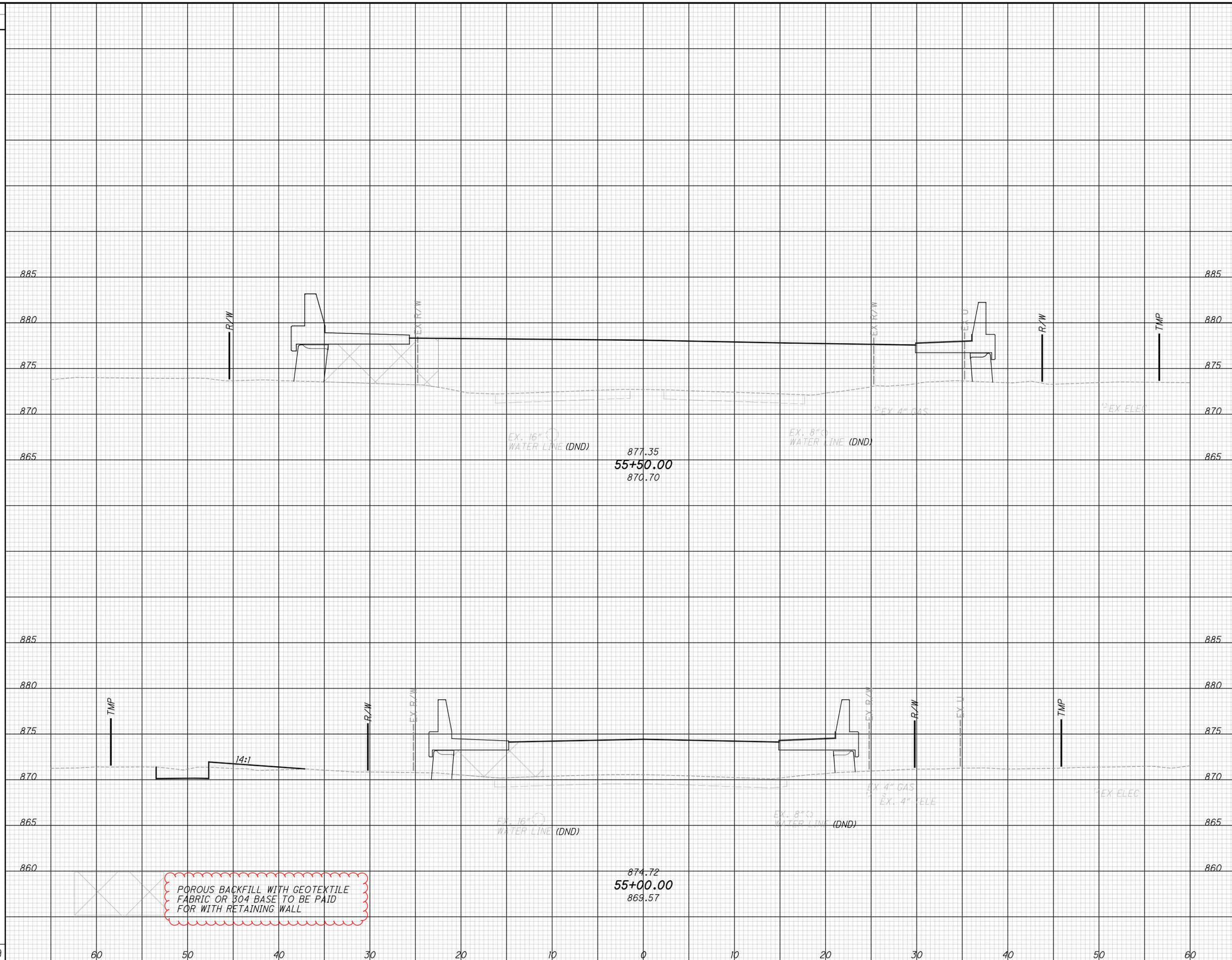
3" PLA SAND
 (TBA)

30" RCP
 TBR

203 GRANULAR MATERIAL, TYPE B, APP
 UNDER APPROACH SLAB = 2200 CY

...303.209\103958_XS902.dgn 9/13/2023 5:16:39 AM mswmitt

SEEDING	END AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
8			0	327		
117			6	439		
34	6	147	6	245		
122			6	245		
239	12	684	12	684		



**CROSS SECTIONS - EASTGATE S. DR.
 STA. 55+00 TO STA. 55+50**

**CLE-CR55-OVRPASS
 (PHASE 9)**

90
353

STRUCTURE GENERAL NOTES

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

- AS-1-15 REVISED 07/17/2015
- AS-2-15 REVISED 01/18/2019
- BR-2-15 REVISED 01/22/2022
- PSID-1-13 REVISED 01/15/2021
- SBR-1-20 REVISED 07/17/2020
- VPF-1-90 REVISED 07/20/2018

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION:
800 DATED 01/21/2022

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

- VEHICULAR LIVE LOAD: HL-93
- FUTURE WEARING SURFACE (FWS) OF 0.060 KSF
- PEDESTRIAN LIVE LOAD: 0.075 KSF

DESIGN DATA:

CONCRETE CLASS QC2:
COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1:
COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

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

CONCRETE FOR PRESTRESSED BEAMS:
COMPRESSIVE STRENGTH (FINAL) - 10.0 KSI
COMPRESSIVE STRENGTH (RELEASE) - 8.0 KSI

WELDED WIRE FABRIC - YIELD STRENGTH - 70 KSI

PRESTRESSING STRAND:
AREA = 0.217 SQUARE INCHES
ULTIMATE STRENGTH = 270 KSI
INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

MONOLITHIC WEARING SURFACE:

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

NON-USE OF ASBESTOS-CONTAINING MATERIALS:

THE CONTRACTOR SHALL AT NO TIME INCORPORATE ANY MATERIALS WHICH ARE COMPOSED OF OR CONTAIN ANY AMOUNTS OF ASBESTOS. THE SUBSTITUTION OF MATERIALS WHICH CONTAIN ANY AMOUNTS OF ASBESTOS WILL IN NO CIRCUMSTANCES BE ACCEPTABLE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF CERTIFICATION ASSERTING THAT NO ASBESTOS CONTAINING MATERIALS WERE USED IN ANY PORTION OF THE CONSTRUCTION.

PILE DRIVING:

THE MINIMUM RATED ENERGY OF THE HAMMER USED TO INSTALL THE PILES SHALL BE 43,000 FOOT-POUNDS. ENSURE THAT STRESSES IN THE PILES DURING DRIVING DO NOT EXCEED 45,000 POUNDS PER SQUARE INCH.

PILE DRIVING CONSTRAINTS:

PRIOR TO DRIVING PILES AT THE ABUTMENTS, CONSTRUCT THE BRIDGE APPROACH EMBANKMENT BEHIND THE ABUTMENTS UP AT A 1:1 SLOPE FROM THE TOP OF HEEL OF THE FOOTING TO THE SUBGRADE ELEVATION AND FOR A MINIMUM DISTANCE OF 250 FEET BEHIND THE ABUTMENTS. DO NOT BEGIN THE INSTALLATION OF THE ABUTMENT PILES UNTIL AFTER THE ABOVE REQUIRED EMBANKMENT HAS BEEN CONSTRUCTED AND A 175 CALENDAR DAY WAITING PERIOD HAS ELAPSED. THE ENGINEER MAY ADJUST THE LENGTH OF THE WAITING PERIOD BASED ON SETTLEMENT PLATFORM READINGS. AFTER THE SPECIFIED WAITING PERIOD HAS ELAPSED, DRIVE ABUTMENT PILES TO REFUSAL ON BEDROCK. AFTER THE FOOTING AND THE BREASTWALL HAVE BEEN CONSTRUCTED, CONSTRUCT THE EMBANKMENT IMMEDIATELY BEHIND THE ABUTMENTS UP TO THE BEAM SEAT ELEVATION AND ON A 1:1 SLOPE UP TO THE SUBGRADE ELEVATION PRIOR TO SETTING THE BEAMS ON THE ABUTMENTS. FOR LOCATIONS OF SETTLEMENT PLATFORMS, SEE GENERAL NOTE "ITEM SPECIAL - SETTLEMENT PLATFORM".

PILES TO BEDROCK:

DRIVE PILES TO REFUSAL ON BEDROCK. THE DEPARTMENT WILL CONSIDER REFUSAL TO BE OBTAINED WHEN THE PILE PENETRATION IS AN INCH OR LESS AFTER RECEIVING AT LEAST 20 BLOWS FROM THE PILE HAMMER. SELECT THE HAMMER SIZE TO ACHIEVE THE REQUIRED DEPTH TO BEDROCK AND REFUSAL AND TO MEET THE REQUIREMENTS STATED IN THE PILE DRIVING NOTE ON THIS SHEET.

THE TOTAL FACTORED LOAD IS 377 KIPS PER PILE FOR THE REAR AND FORWARD ABUTMENT PILES. THE TOTAL FACTORED LOAD IS 299 KIPS PER PILE FOR THE PIER PILES.

REAR ABUTMENT PILES:
HP12x53 PILES 50 FEET LONG, ORDER LENGTH

PIER PILES:
HP12x53 PILES 55 FEET LONG, ORDER LENGTH

FORWARD ABUTMENT PILES:
HP12x53 PILES 55 FEET LONG, ORDER LENGTH

PILE SPLICES:

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

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

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

DECK PLACEMENT DESIGN ASSUMPTIONS:

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

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 3.05 KIPS.

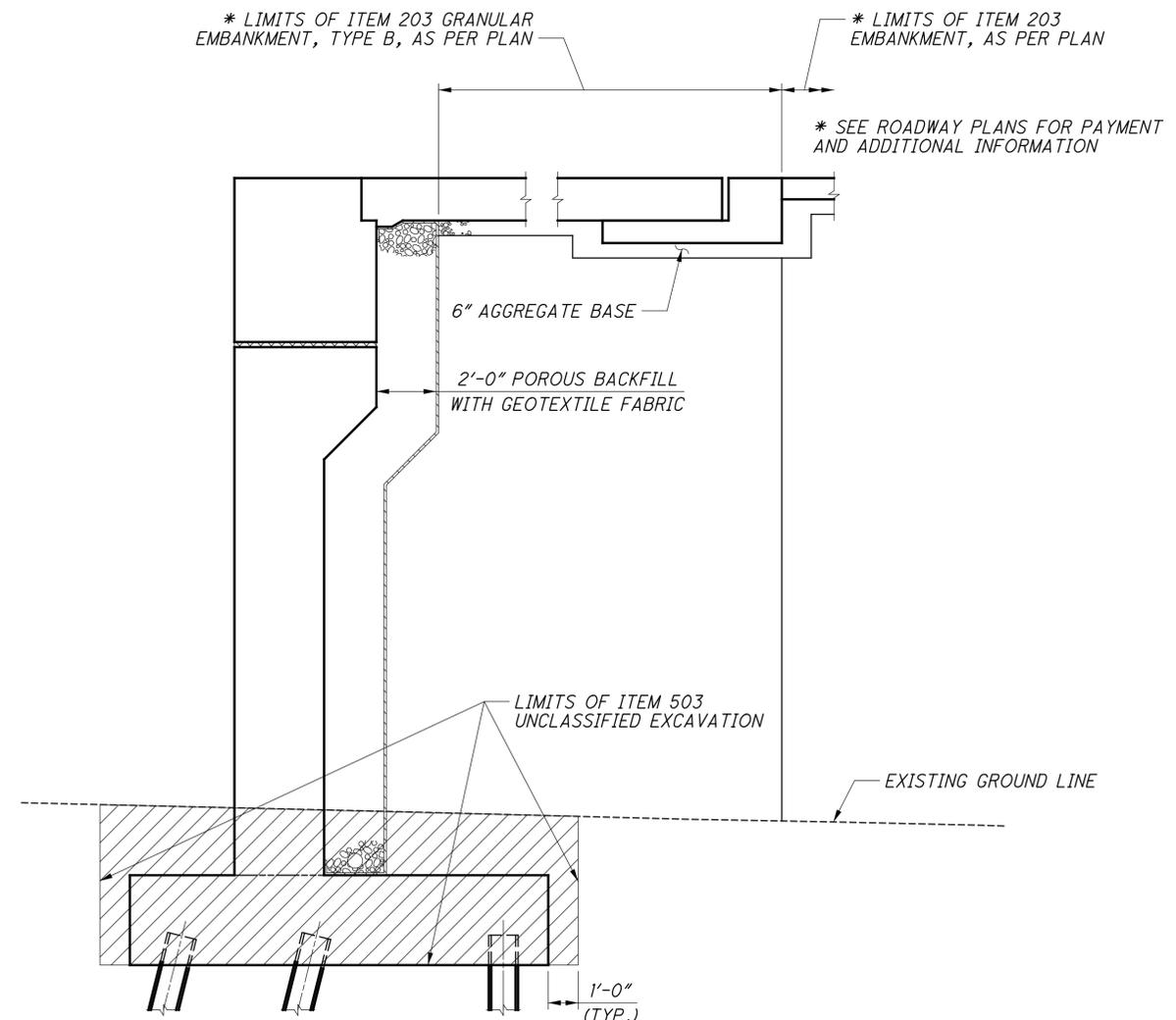
A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103 INCHES.

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65 INCHES.

ITEM 203 - EMBANKMENT, AS PER PLAN & ITEM 203 - GRANULAR EMBANKMENT, TYPE B, AS PER PLAN:

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT BETWEEN STATIONS 17+80 TO 18+80 AND 21+51 TO 22+51. SEE ROADWAY PLANS FOR DETAILS AND PAYMENT.



UNCLASSIFIED EXCAVATION AND ITEM 203 DIAGRAM
(ABUTMENT SHOWN, WINGWALL SIMILAR)

...Sheets\032_0271C_SNO01.dgn 9/13/2023 5:20:53 AM mswhatt