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	6,020 CU. YD.
659, SEEDING AND MULCHING	54,238 SQ. YD.
659, REPAIR SEEDING AND MULCHING	2,712 SQ. YD.
659, INTER-SEEDING	2,712 SQ. YD.
659, COMMERICAL FERTILIZER	7.57 TON
659, LIME	11.21 ACRES
659, WATER	300 M GALS
659, MOWING	122 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.

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.

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 159 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 30 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.

CONSTRICT 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.

ITEM 202 - BUILDING DEMOLISHED, AS PER PLAN

REMOVAL AND DEMOLITION OF THE STRUCTURE SHALL INCLUDE REMOVAL OF ALL FOOTINGS, FLOOR SLABS, BASEMENT WALLS, UNDERGROUND TANKS AND ANY OTHER BELOW GRADE ITEMS. THE STRUCTURE SHALL BE REMOVED ENTIRELY. REMOVE AND DISPOSAL OF ALL STRUCTURE DEBRIS OFF-SITE. BACKFILL THE STRUCTURE VOID ACCORDING TO CMS 202.02.

ITEM 204 - ENBANKMENT, AS PER PLAN

ANY NEW EMBANKMENT REQUIRED TO ESTABLISH THE UPPER 12" OF THE DESIGN PAVEMENT SUBGRADE SHALL CONSIST OF NATURAL SOIL. THE NATURAL SOIL SHALL CONSIST OF COHESIVE MATERIAL CLASSIFYING AS A-7-6 OR A-6B PER THE ODOT SOIL CLASSIFICATION SYSTEM AND SHALL HAVE A PLASTICITY INDEX OF 16% OR GREATER. THE ITEM 204 EMBANKMENT, AS PER PLAN SHALL ALSO MEET THE SULFATE REQUIREMENTS OUTLINED IN SUPPLEMENT 1120. ALL OTHER ITEMS OUTLINED IN ITEM 204 SHALL APPLY TO THIS PAY ITEM. SHALE AND LIMESTONE BEDROCK EXCAVATED IN THE PROJECT AREA SHALL NOT BE UTILIZED AS EMBANKMENT WITHIN THE UPPER 12" OF THE DESIGN PAVEMENT SUBGRADE.

ITEM 619 - FIELD OFFICE, TYPE C, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS PROVIDED IN CMS FOR THE TYPE OF FIELD OFFICE SPECIFIED, PROVIDE THE FOLLOWING ITEMS:

[1] FOR EACH TELEPHONE AND/OR COMPUTER STATION SPECIFIED, PROVIDE ALL ETHERNET WIRING NECESSARY TO CONNECT THE PHONE AND/OR COMPUTER AND MULTI-FUNCTION COPIER TO THE INTERNET COMPANY SYSTEM.

[5] PROVIDE A BROADBAND INTERNET CONNECTION CAPABLE OF MINIMUM DOWNLOAD SPEEDS AS FOLLOWS:

30 MBPS DOWNLOAD 5 MBPS UPLOAD - NETWORK LATENCY LESS THAN 50 MILLISECONDS. IF SPEEDS ARE NOT AVAILABLE THROUGH AN INDIVIDUAL OR SINGULAR CIRCUIT, PROVIDE THE HIGHEST SPEED AVAILABLE IN THE AREA AND INSTALL MULTIPLE CIRCUITS TO ACHIEVE THE SPECIFIED SPEEDS. WHEN MULTIPLE BROADBAND SERVICES ARE AVAILABLE, THE FOLLOWING IS THE DESCENDING ORDER OF PRECEDENCE: CABLE, DSL, CELLULAR, AND WIRELESS RADIO (SATELLITE COMMUNICATION IS NOT COMPATIBLE WITH ODOT VPN CONNECTION AND WILL NOT BE ACCEPTED). SUPPLY MODEMS CAPABLE OF BEING CONFIGURED IN BRIDGE MODE. IF A CELLULAR NETWORK IS USED, PROVIDE THE CELLULAR EQUIPMENT, INCLUDING SOFTWARE AND ROUTER EQUIPMENT TO CONNECT TO THE ODOT PROVIDED CISCO ASA 5505 FIREWALL. SUPPLY ODOT WITH ALL DOCUMENTATION FOR THE BROADBAND CIRCUIT INCLUDING ALL USERNAME/USER IDS, PASSWORDS AND ACCOUNT INFORMATION. VERIFY THAT THE BROADBAND INTERNET CONNECTION IS ACTIVE AND WORKING AS SPECIFIED. ODOT IT PERSONNEL WILL CONFIRM THAT BANDWIDTH AND NETWORK LATENCY ARE COMPLIANT WITH THE REQUIRED FIELD OFFICE SPECIFICATIONS. ALL FIELD OFFICE INTERNET CONNECTIONS ARE FOR ODOT USE ONLY.

PHASING JOINT

THE FOLLOWING QUANTITIES HAVE BEEN CALCULATED TO ACCOUNT FOR THE PHASING JOINT LOCATED AT ALL SAWCUT LINES.

SAWCUT LENGTH = 13,292' (SEE TYPICAL SECTIONS FOR LOCATIONS)

ITEM 202, PAVEMENT REMOVED = 1,846 SY

ITEM 442 ASPHALT CONCRETE SURFACE COURSE = 77 CY

ITEM 442, ASPHALT CONCRETE INTERMEDIATE COURSE = 72 CY

ITEM 302, ASPHALT CONCRETE BASE COURSE = 308 CY

CALCULATED MSW CHECKED WAA

GENERAL NOTES

CLE-32-3.50 (PHASE 5)

ITEM 614 - MAINTAINING TRAFFIC (CONT'D)

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 CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

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

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY) 1519 EACH
ITEM 614, OBJECT MARKER, ONE-WAY 1669 EACH

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

ITEM 614 LONGITUDINAL CHANNELIZER

LONGITUDINAL CHANNELIZERS SHALL BE PROVIDED AS CALLED FOR IN THE PLANS. A LONGITUDINAL CHANNELIZER CONSISTS OF A COMBINATION OF VERTICAL COMPONENTS AND LONGITUDINAL BASE COMPONENTS, FIT TOGETHER TO CREATE A CONTINUOUS CHANNELIZING DEVICE, AS DETAILED IN TRAFFIC PIS 2010180. USE OF TUBULAR MARKERS, AS IDENTIFIED IN THE

OMUTCD, FIGURE 6F-7, SHALL NOT QUALIFY FOR USE AS A LONGITUDINAL CHANNELIZER.

THE VERTICAL COMPONENT SHALL BE EQUIPPED WITH TWO 3-INCH WIDE RETRO-REFLECTIVE BANDS, PLACED A MAXIMUM OF 2 INCHES FROM THE TOP, WITH A MAXIMUM OF 6 INCHES BETWEEN THE BANDS. THE LONGITUDINAL BASE COMPONENTS SHALL BE EQUIPPED WITH REFLECTORS.

LONGITUDINAL CHANNELIZERS SHALL COMPLY WITH THE REQUIREMENTS CONTAINED WITHIN TRAFFIC PIS 2010180.

FURNISH LONGITUDINAL CHANNELIZERS FROM THE APPROVED LIST FOUND ON THE OFFICE OF MATERIALS MANAGEMENT WEBSITE. FOR INSTALLATION PROCEDURES, FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

LONGITUDINAL CHANNELIZERS SHALL BE MONITORED TO DETERMINE WHETHER THERE IS SIGNIFICANT DAMAGE FROM ERRANT VEHICLES.

LONGITUDINAL CHANNELIZERS WILL BE MADE AT THE UNIT PRICE PER FOOT FOR:

ITEM 614, LONGITUDINAL CHANNELIZER 226 FOOT

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL AND ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626.

OBJECT MARKERS SHALL BE INSTALLED ON ALL TEMPORARY AND PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. GUARDRAIL-MOUNTING OF OBJECT MARKERS SHALL BE MADE BY INSTALLING THE OBJECT MARKERS ON THE EXTENSION BLOCKS RATHER THAN DIRECTLY ONTO THE GUARDRAIL ITSELF. OBJECT MARKERS SHALL CONFORM TO C&MS 614.03 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

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

ITEM 614, BARRIER REFLECTOR, TYPE 3 ONE-WAY 150 EACH
ITEM 614, OBJECT MARKER, ONE-WAY 150 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEM(S).

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH APRIL 1.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

RESURFACING OF THE TRANSITION AREAS SHALL BE PERFORMED AT THE TIME THAT THE SURFACE COURSE IS BEING APPLIED TO THE ENTIRE PROJECT. PRIOR TO APPLICATION OF THE SURFACE COURSE ON THE PROJECT, THE EXISTING PAVEMENT WITHIN THE TRANSITION AREA SHALL BE REMOVED TO A DEPTH NECESSARY TO REACH THE LEVEL OF THE INTERMEDIATE COURSE OF THE PAVEMENT, AS DETERMINED BY THE ENGINEER.

THE FOLLOWING BID ITEMS SHOULD BE INCLUDED IN THE PLANS:

ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN 688 EACH (SEE SHEET 137)

PAYMENT FOR RESURFACING WITHIN THE TRANSITION AREA SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEMS FOR THE WORK REQUIRED, AS PROVIDED FOR IN THE PLANS.

NOTICE 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 OFFICE OF COMMUNICATIONS. 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, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE TO OFFICE OF COMMUNICATION TIME TABLE:

ITEM	DURATION OF CLOSURE	NOTICE DUE TO OFFICE OF COMMUNICATION
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	2 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 NOTICE TO OFFICE OF COMMUNICATIONS TIME TABLE.

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 30 EACH HAS BEEN PROVIDED

NOTICE OF CLOSURE SIGN

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

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

NOTICE OF CLOSURE SIGN TIME TABLE:

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

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

PHASE 1:
- NONE

PHASE 2:
- 2 SIGNS FOR ELICK LN CLOSURE, LOCATE AT INTERSECTION OF ELICK LN AND OLD SR74

PHASE 3:
- 2 SIGNS FOR WYLER PARK DR CLOSURE, LOCATE AT INTERSECTION OF WYLER PARK DR AND EASTGATE NORTH DR
- 2 SIGNS FOR GLEN ESTE-WITHAMSVILLE RD CLOSURE, LOCATE AT INTERSECTION OF GLEN ESTE-WITHAMSVILLE RD AND CLEPPER LN

PHASE 4:
*- 2 SIGNS FOR GLEN ESTE-WITHAMSVILLE RD CLOSURE, LOCATE AT INTERSECTION OF GLEN ESTE-WITHAMSVILLE RD AND CLEPPER LN
*- 2 SIGNS FOR FAYARD DR CLOSURE, LOCATE AT INTERSECTION OF FAYARD DR AND CLEPPER LN

6 <== TOTAL NUMBER OF SIGNS
* REMAINS FROM PREVIOUS PHASE/PROJECT

CALCULATED KSC CHECKED JLG

MAINTENANCE OF TRAFFIC GENERAL NOTES

CLE-32-3.50 (PHASE 5)

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
26	27	29	139	145	146	147	158	159				01/NHS/ OT	04/NHS/ BR						
																		ROADWAY	
LS												LS		201	11000	LS		CLEARING AND GRUBBING	
			1									1		202	20010	1	EACH	HEADWALL REMOVED	
	1,846		48,631									50,477		202	23000	50,477	SY	PAVEMENT REMOVED	
			997									997		202	30000	997	SF	WALK REMOVED	
			769									769		202	30700	769	FT	CONCRETE BARRIER REMOVED	
			2,508									2,508		202	32000	2,508	FT	CURB REMOVED	
			2,131									2,131		202	32500	2,131	FT	CURB AND GUTTER REMOVED	
			1,735									1,735		202	35100	1,735	FT	PIPE REMOVED, 24" AND UNDER	
			1,030									1,030		202	38000	1,030	FT	GUARDRAIL REMOVED	
			116									116		202	38300	116	FT	GUARDRAIL REMOVED, BARRIER DESIGN	
			3									3		202	53100	3	EACH	MAILBOX REMOVED	
			3									3		202	58000	3	EACH	MANHOLE REMOVED	
			20									20		202	58100	20	EACH	CATCH BASIN REMOVED	
		7										7		202	67000	7	EACH	REGULATED UNDERGROUND STORAGE TANK REMOVED	
			6,592									6,592		202	75000	6,592	FT	FENCE REMOVED	
			4									4		202	75250	4	EACH	GATE REMOVED	
			1									1		202	98100	1	EACH	REMOVAL MISC.: BILLBOARD	29
			36									36		202	98100	36	EACH	REMOVAL MISC.: COMMERCIAL LIGHTING	29
			23									23		202	98200	23	FT	REMOVAL MISC.: STONE WALL	29
						14,045	12,253					26,298		203	10000	26,298	CY	EXCAVATION	
						159,948						159,948		203	20000	159,948	CY	EMBANKMENT	
						8,605						8,605		203	20001	8,605	CY	EMBANKMENT, AS PER PLAN	27
								7,374				7,374		204	10000	7,374	SY	SUBGRADE COMPACTION	
								1,021				1,021		204	13000	1,021	CY	EXCAVATION OF SUBGRADE, 12" DEEP	
								1,021				1,021		204	30010	1,021	CY	GRANULAR MATERIAL, TYPE B	
	30											30		204	45000	30	HOUR	PROOF ROLLING	
								3,062				3,062		204	50000	3,062	SY	GEOTEXTILE FABRIC	
								52,279				52,279		206	10010	52,279	SY	LIME STABILIZED SUBGRADE, 12 INCHES DEEP	
								1,353				1,353		206	10300	1,353	TON	LIME	
								52,490				52,490		206	11000	52,490	SY	CURING COAT	
								LS				LS		206	30001	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, AS PER PLAN	27
				9,277								9,277		606	15050	9,277	FT	GUARDRAIL, TYPE MGS	
				11								11		606	26150	11	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
				8								8		606	26550	8	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				8								8		606	35002	8	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				5								5		606	35102	5	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
				7,877								7,877		607	23000	7,877	FT	FENCE, TYPE CLT	
				1								1		607	61200	1	EACH	GATE, TYPE CLT	
				7,877								7,877		607	70000	7,877	FT	FENCELINE SEEDING AND MULCHING	
				403								403		608	52000	403	SF	CURB RAMP	
					53							53		622	10120	53	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C	
					208							208		622	10140	208	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	
					3,314							3,314		622	10160	3,314	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
					1,403							1,403		622	10161	1,403	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	10
					2							2		622	24840	2	EACH	CONCRETE BARRIER END SECTION, TYPE B	
					12							12		622	25000	12	EACH	CONCRETE BARRIER END SECTION, TYPE D	
					1							1		622	25009	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C, AS PER PLAN	432
					19							19		622	25050	19	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
					1							1		622	25051	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN A	433
					1							1		622	25051	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN B	434
		1,692										1,692		SPECIAL	69065010	1,692	TON	WORK INVOLVING SOLID WASTE	29
		846										846		SPECIAL	69065016	846	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	29
		2,000										2,000		SPECIAL	69065020	2,000	GAL	WORK INVOLVING WATER	29
		2,000										2,000		SPECIAL	69065024	2,000	GAL	WORK INVOLVING REGULATED WATER	29
						18						18		840	23000	18	CY	SELECT GRANULAR BACKFILL	

CALCULATED MSW
CHECKED WAA

GENERAL SUMMARY

CLE-32-3.50
(PHASE 5)

SHEET NUM.													PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
27	28	148	152	158	167								01/NHS/ OT	04/NHS/ BR						
																			EROSION CONTROL	
	8		12										20		601	21050	20	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
		107											107		601	21060	107	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
		10		165									175		601	32204	175	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
		1,458											1,458		601	37501	1,458	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN	28
		338											338		601	38501	338	FT	PAVED GUTTER, TYPE 3, AS PER PLAN	28
2													2		659	00100	2	EACH	SOIL ANALYSIS TEST	
6,020													6,020		659	00300	6,020	CY	TOPSOIL	
54,238													54,238		659	10000	54,238	SY	SEEDING AND MULCHING	
2,712													2,712		659	14000	2,712	SY	REPAIR SEEDING AND MULCHING	
2,712													2,712		659	15000	2,712	SY	INTER-SEEDING	
7.57													7.57		659	20000	7.57	TON	COMMERCIAL FERTILIZER	
11.21													11.21		659	31000	11.21	ACRE	LIME	
300													300		659	35000	300	MGAL	WATER	
122													122		659	40000	122	MSF	MOWING	
				1,903									1,903		670	00500	1,903	SY	SLOPE EROSION PROTECTION	
					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	
					229,747								229,747		832	30000	229,747	EACH	EROSION CONTROL	
																			DRAINAGE	
		2.1		1.2									3.3		602	20000	3.3	CY	CONCRETE MASONRY	
			20,025										20,025		605	11110	20,025	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	200												200		605	13300	200	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
			14,163										14,163		605	14020	14,163	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	200												200		611	00406	200	FT	4" CONDUIT, TYPE F	
			2,222										2,222		611	00510	2,222	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
		1,415											1,415		611	04400	1,415	FT	12" CONDUIT, TYPE B	
		44											44		611	04600	44	FT	12" CONDUIT, TYPE C	
		1,103											1,103		611	05900	1,103	FT	15" CONDUIT, TYPE B	
		141											141		611	06100	141	FT	15" CONDUIT, TYPE C	
		618											618		611	06100	618	FT	15" CONDUIT, TYPE C, TYPE C, 706.02, JOINTS PER 706.11	
		43											43		611	06700	43	FT	15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21	
		196											196		611	07400	196	FT	18" CONDUIT, TYPE B	
		460											460		611	07600	460	FT	18" CONDUIT, TYPE C	
		769											769		611	10400	769	FT	24" CONDUIT, TYPE B	
		40											40		611	10600	40	FT	24" CONDUIT, TYPE C	
				40									40		611	13600	40	FT	30" CONDUIT, TYPE C	
		450											450		611	16400	450	FT	36" CONDUIT, TYPE B	
		559											559		611	19400	559	FT	42" CONDUIT, TYPE B	
		276											276		611	20900	276	FT	48" CONDUIT, TYPE B	
		66											66		611	96600	66	FT	CONDUIT, BORED OR JACKED: 15" TYPE B	
		69											69		611	96600	69	FT	CONDUIT, BORED OR JACKED: 18" TYPE B	
		176											176		611	96600	176	FT	CONDUIT, BORED OR JACKED: 24" TYPE B	
		55											55		611	96600	55	FT	CONDUIT, BORED OR JACKED: 42" TYPE B	
		3											3		611	98150	3	EACH	CATCH BASIN, NO. 3	
		4											4		611	98151	4	EACH	CATCH BASIN, NO. 3, AS PER PLAN	467
		16											16		611	98180	16	EACH	CATCH BASIN, NO. 3A	
		1											1		611	98181	1	EACH	CATCH BASIN, NO. 3A, AS PER PLAN	467
		6											6		611	98410	6	EACH	CATCH BASIN, NO. 8	
		5											5		611	98434	5	EACH	CATCH BASIN, NO. 8A	
		6											6		611	98470	6	EACH	CATCH BASIN, NO. 2-2B	
		1											1		611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
		8											8		611	99114	8	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
		20											20		611	99574	20	EACH	MANHOLE, NO. 3	
		2											2		611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE	
	4		6										10		611	99710	10	EACH	PRECAST REINFORCED CONCRETE OUTLET	
				1									1		611	99854	1	EACH	WATER QUALITY BASIN, DETENTION	
				1									1		611	99855	1	EACH	WATER QUALITY BASIN, DETENTION, AS PER PLAN	465

CALCULATED MSW
CHECKED WAA

GENERAL SUMMARY

CLE-32-3.50
(PHASE 5)

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
487	488	501	502	503								01/NHS/ OT	04/NHS/ BR						
																		TRAFFIC CONTROL	
				374								374		621	00100	374	EACH	RPM	
				450								450		621	54000	450	EACH	RAISED PAVEMENT MARKER REMOVED	
15												15		625	32000	15	EACH	GROUND ROD	
		50										50		626	00102	50	EACH	BARRIER REFLECTOR, TYPE 1, 1WAY	
		111										111		626	00110	111	EACH	BARRIER REFLECTOR, TYPE 2, 1WAY	
1,102.5												1,102.5		630	03100	1,102.5	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
36.3												36.3		630	07600	36.3	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
116												116		630	08004	116	FT	ONE WAY SUPPORT, NO. 3 POST	
130												130		630	08200	130	EACH	GROUND MOUNTED SUPPORT, PIPE	
27												27		630	08600	27	EACH	SIGN POST REFLECTOR	
2												2		630	09000	2	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
2												2		630	09050	2	EACH	TRIANGULAR SLIP BASE CONNECTION	
5												5		630	72320	5	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 6	
5												5		630	72330	5	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 10	
1												1		630	72340	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12	
2												2		630	72410	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 1	
1												1		630	79500	1	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
3												3		630	79610	3	EACH	SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED	
741.26												741.26		630	80100	741.26	SF	SIGN, FLAT SHEET	
	56											56		630	80200	56	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
	1,674											1,674		630	80224	1,674	SF	SIGN, OVERHEAD EXTRUSHEET	
	2											2		630	84500	2	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
	15											15		630	84510	15	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
	2											2		630	84600	2	EACH	GROUND MOUNTED PIPE SUPPORT FOUNDATION	
	168											168		630	84900	168	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
	2											2		630	85400	2	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
	1											1		630	85600	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION	
	193											193		630	86002	193	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
	8											8		630	86102	8	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
	7											7		630	87400	7	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
	2											2		630	89810	2	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	
		553										553		642	01200	553	FT	PARKING LOT STALL MARKING, TYPE 1	
		1.23										1.23		644	00100	1.23	MILE	EDGE LINE, 4"	
		0.46										0.46		644	00200	0.46	MILE	LANE LINE, 4"	
		0.81										0.81		644	00300	0.81	MILE	CENTER LINE	
		4,373										4,373		644	00400	4,373	FT	CHANNELIZING LINE, 8"	
		351										351		644	00500	351	FT	STOP LINE	
		332										332		644	00600	332	FT	CROSSWALK LINE	
		2,455										2,455		644	00700	2,455	FT	TRANSVERSE/DIAGONAL LINE	
		211										211		644	00720	211	FT	CHEVRON MARKING	
		547										547		644	00900	547	SF	ISLAND MARKING	
			108									108		644	01300	108	EACH	LANE ARROW	
			6									6		644	01350	6	EACH	LANE REDUCTION ARROW	
			2									2		644	01360	2	EACH	WRONG WAY ARROW	
			24									24		644	01400	24	EACH	WORD ON PAVEMENT, 72"	
			592									592		644	01500	592	FT	DOTTED LINE, 4"	
			308									308		644	30000	308	FT	REMOVAL OF PAVEMENT MARKING	
			2									2		644	30020	2	EACH	REMOVAL OF PAVEMENT MARKING	
			0.1									0.1		644	30030	0.1	MILE	REMOVAL OF PAVEMENT MARKING	
			0.01									0.01		646	10200	0.01	MILE	CENTER LINE	
			401									401		646	10300	401	FT	CHANNELIZING LINE, 8"	
			96									96		646	10400	96	FT	STOP LINE	

CALCULATED MSW
CHECKED WAA

GENERAL SUMMARY

CLE-32-3.50
(PHASE 5)

131
736

..\303.205\103954_GG501.dgn 11/19/2021 1:33:04 PM mswritt

SHEET NUM.							PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
501	502	567					01/NHS/ OT	04/NHS/ BR						
													TRAFFIC CONTROL (CONT.)	
	4						4		646	20300	4	EACH	LANE ARROW	
	4						4		646	20400	4	EACH	WORD ON PAVEMENT, 72"	
	527						527		646	20502	527	FT	DOTTED LINE, 4"	
	0.06						0.06		807	12000	0.06	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 4"	
	0.04						0.04		807	12100	0.04	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 4"	
2.9							2.9		807	14010	2.9	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
1.13							1.13		807	14110	1.13	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
5,037							5,037		807	14310	5,037	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"	
	1,523						1,523		807	14410	1,523	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
	1,260						1,260		807	14420	1,260	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 8"	
	544						544		807	14430	544	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 12"	
4.03							4.03		850	10010	4.03	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
	1,523						1,523		850	10110	1,523	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
	1,260						1,260		850	10120	1,260	FT	GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT)	
5,037	544						5,581		850	10130	5,581	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
	0.1						0.1		850	20000	0.1	MILE	GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE)	
													TRAFFIC SIGNALS	
		6					6		625	18201	6	EACH	BRACKET ARM, 15', AS PER PLAN	549
		1,300					1,300		625	23306	1,300	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
		162					162		625	25504	162	FT	CONDUIT, 3", 725.051	
		1,172					1,172		625	25908	1,172	FT	CONDUIT, JACKED OR DRILLED, 725.052, 4"	
		6					6		625	27551	6	EACH	LUMINAIRE, DECORATIVE, AS PER PLAN	549
		81					81		625	29400	81	FT	TRENCH IN PAVED AREA	
		7					7		625	30706	7	EACH	PULL BOX, 725.08, 24"	
		6					6		625	32000	6	EACH	GROUND ROD	
		81					81		625	36010	81	FT	UNDERGROUND WARNING/MARKING TAPE	
		4					4		630	79100	4	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
		6					6		630	79500	6	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
		33					33		630	80100	33	SF	SIGN, FLAT SHEET	
		6					6		630	80500	6	EACH	SIGN, DOUBLE FACED, STREET NAME	
		24					24		632	05007	24	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK	550
		24					24		632	25000	24	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
		8,775					8,775		632	40700	8,775	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
		6					6		632	64010	6	EACH	SIGNAL SUPPORT FOUNDATION	
		44					44		632	68200	44	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	
		75					75		632	68300	75	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG	
		250					250		632	69500	250	FT	SERVICE CABLE, 2 CONDUCTOR, NO. 6 AWG	
		1					1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	550
		1					1		632	78361	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-12.31 DESIGN 10 POLE, WITH MAST ARMS TC-81.22 DESIGN 13 AND DESIGN 2, AS PER PLAN	550
		1					1		632	78369	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-12.31 DESIGN 10 POLE, WITH MAST ARMS TC-81.22 DESIGN 13 AND DESIGN 12, AS PER PLAN	550
		1					1		632	79101	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN	550
		3					3		632	79141	3	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	550
		3					3		632	90103	3	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION FOR STORAGE, AS PER PLAN	551
		1					1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	552
		1					1		633	67201	1	EACH	CONTROLLER WORK PAD, AS PER PLAN	551
		1					1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	551
		1					1		633	99000	1	EACH	CONTROLLER ITEM, MISC.: CDMA MODEM, FURNISH ONLY	551
		1					1		633	99000	1	EACH	CONTROLLER ITEM, MISC.: CONTROLLER UNIT, TYPE 2070E WITH 2070-1C CPU AND ASC/3 SOFTWARE	551
		2					2		809	69000	2	EACH	ADVANCE RADAR DETECTION	
		6					6		809	69100	6	EACH	STOP LINE RADAR DETECTION	

CALCULATED MSW CHECKED WAA

GENERAL SUMMARY

CLE-32-3.50 (PHASE 5)

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
30	31	32	33	126	35	39	36	137	138			01/NHS/OT	04/NHS/BR						
																		MAINTENANCE OF TRAFFIC	
		290										290		301	46000	290	CY	ASPHALT CONCRETE BASE, PG64-22	
		220										220		304	20000	220	CY	AGGREGATE BASE	
		110										110		407	10000	110	GAL	TACK COAT	
90												90		410	12000	90	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
		60										60		441	50000	60	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
						4						4		611	98631	4	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	39
	1,500											1,500		614	11110	1,500	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
									6			6		SPECIAL	61411300	6	EACH	WORK ZONE TRAFFIC SIGNAL	36
								28				28		614	12384	28	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
												LS		614	12420	LS		DETOUR SIGNING	
					14							14		614	12484	14	EACH	WORK ZONE INCREASED PENALTIES SIGN	
			30									30		614	12500	30	EACH	REPLACEMENT SIGN	
		100										100		614	12600	100	EACH	REPLACEMENT DRUM	
								688				688		614	12801	688	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	33
30												30		614	13000	30	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
								1,519				1,519		614	13310	1,519	EACH	BARRIER REFLECTOR, TYPE 1, (ONE-WAY)	
								150				150		614	13314	150	EACH	BARRIER REFLECTOR, TYPE 3, (ONE-WAY)	
								1,669				1,669		614	13350	1,669	EACH	OBJECT MARKER, ONE WAY	
						5,400						5,400		614	18030	5,400	FT	MAINTAINING TRAFFIC, MISC.:PROVIDING POSITIVE DRAINAGE DURING CONSTRUCTION	39
							18					18		614	18601	18	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	36
								8.98				8.98		614	20056	8.98	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
								1.83				1.83		614	20100	1.83	MILE	WORK ZONE LANE LINE, CLASS I, 4", 642 PAINT	
									0.5			0.5		614	20550	0.5	MILE	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	
									6.12			6.12		614	20560	6.12	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
								1				1		614	21100	1	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
									0.82			0.82		614	21550	0.82	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
								15.72				15.72		614	22056	15.72	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
								4.57				4.57		614	22100	4.57	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	
									1.46			1.46		614	22350	1.46	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	
									8.68			8.68		614	22360	8.68	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
								29,906				29,906		614	23110	29,906	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
								12,159				12,159		614	23200	12,159	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	
									4,774			4,774		614	23680	4,774	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	
									7,535			7,535		614	23690	7,535	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
								11,225				11,225		614	24200	11,225	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT	
									10,365			10,365		614	24610	10,365	FT	WORK ZONE DOTTED LINE, CLASS III, 4", 642 PAINT	
								1,092				1,092		614	25200	1,092	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
									2,667			2,667		614	25620	2,667	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS III, 642 PAINT	
								660				660		614	26200	660	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
									447			447		614	26610	447	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
									332			332		614	27620	332	FT	WORK ZONE CROSSWALK LINE, CLASS III, 642 PAINT	
								123				123		614	30200	123	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT	
									115			115		614	30650	115	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	
								30				30		614	31200	30	EACH	WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT	
									29			29		614	31620	29	EACH	WORK ZONE WORD ON PAVEMENT, 72", CLASS III, 642 PAINT	
									547			547		614	32800	547	SF	WORK ZONE ISLAND MARKING, CLASS III, 642 PAINT	
			226									226		614	40000	226	FT	LONGITUDINAL CHANNELIZER	
		4										4		614	40051	4	EACH	BUSINESS ENTRANCE SIGN, AS PER PLAN	32
									320			320		614	98100	320	FT	WORK ZONE PAVEMENT MARKING, MISC.:CHEVRON MARKING, CLASS III, 4", 642 PAINT	36
								93				93		614	98100	93	FT	WORK ZONE PAVEMENT MARKING, MISC.:WORK ZONE GORE MARKING, CLASS I, 642 PAINT	36
									6			6		614	98200	6	EACH	WORK ZONE PAVEMENT MARKING, MISC.:LANE REDUCTION ARROW, CLASS III, 642 PAINT	36
									2			2		614	98200	2	EACH	WORK ZONE PAVEMENT MARKING, MISC.:WRONG WAY ARROW, CLASS III, 642 PAINT	36
								205				205		615	20000	205	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
60												60		616	10000	60	MGAL	WATER	

CALCULATED JLG CHECKED SCS

GENERAL SUMMARY

CLE-32-3.50 (PHASE 5)

SHEET NO.	REFERENCE NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	606 GUARDRAIL, TYPE MGS (FT)	606 ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) (EACH)	606 ANCHOR ASSEMBLY, MGS TYPE T (EACH)	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 (EACH)	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 (EACH)				607 FENCE, TYPE CLT (FT)	607 GATE, TYPE CLT (EACH)	607 FENCELINE SEEDING AND MULCHING (FT)	608 CURB RAMP (SF)	609 COMBINATION CURB AND GUTTER, TYPE 2 (FT)	609 CURB, TYPE 4C (FT)	609 CURB, TYPE 6 (FT)	609 CURB, MISC.: CLERMONT COUNTY CURB AND GUTTER (FT)
193	C-3	GLEN ESTE-WITH.	16+74.17	19+28.09	RT																311.3
194	C-5	GLEN ESTE-WITH.	21+05.69	23+07.40	RT																203.1
194	C-6	GLEN ESTE-WITH.	20+69.91	24+12.43	LT																406.2
197	C-8	BACH BUXTON	332+72.11	338+50.18	LT															572.1	
197	C-9	BACH BUXTON	332+72.11	340+45.25	RT															790.1	
198	G-34	BACH BUXTON	335+52.08	340+07.64	RT	413.0	1											86.5			
198	C-11	BACH BUXTON	337+35.45	338+12.85	RT																
200	G-36	BACH BUXTON	346+21.37	346+70.01	RT	37.5		1													
200	G-37	BACH BUXTON	343+88.79	349+27.72	LT	477.3	1														
200	C-13	BACH BUXTON	346+23.32	348+68.26	RT															248.9	
200	C-14	BACH BUXTON	343+86.53	348+68.26	LT															469.1	
202	C-16	FAYARD N.	10+00.00	11+29.00	LT/RT															264.4	
203	C-18	ELICK LN S.	47+96.51	49+83.77	RT																282.0
203	C-19	ELICK LN S.	50+22.59	50+85.32	LT/RT																164.1
204	C-21	ELICK LN N.	60+00.61	63+55.12	LT/RT															599.5	
205	C-23	EX OLD 74	201+48.71	202+41.60	LT/RT															175.3	
206	C-24	EX OLD 74	204+49.59	205+50.00	LT/RT															220.2	
206	C-25	EX OLD 74	205+25.81	205+50.00	RT															58.9	
206	C-26	EX OLD 74	204+94.80	205+05.80	RT															66.8	
435	C-27	ACCESS ROAD	5+33.88	5+55.00	RT															39.8	
435	C-28	ACCESS ROAD	5+14.13	5+55.00	LT															50.1	
435	F-17	ACCESS ROAD	5+54.00	6+59.48	LT									227.9	1	227.9					
435	F-18	ACCESS ROAD	5+54.00	8+15.87	RT									299.7		299.7					
436	F-19	ACCESS ROAD	6+59.48	9+62.52	LT									144.5		144.5					
641	F-1	BACH BUXTON	332+50.00	338+79.23	LT									661.2		661.2					
641	F-2	BACH BUXTON	332+50.00	340+28.56	RT									817.3		817.3					
643	F-3	BACH BUXTON	343+77.05	348+74.76	LT									484.6		484.6					
644	F-4	BACH BUXTON	346+35.37	348+74.87	RT									247.6		247.6					
645	F-6	SR-32	158+28.34	158+97.55	LT									69.6		69.6					
646	F-7	SR-32	185+50.00	195+53.45	RT									1,011.9		1,011.9					
646	F-8	SR-32	185+73.17	196+93.11	LT									1,142.3		1,142.3					
647	F-9	SR-32	201+05.90	202+59.38	LT									156.4		156.4					
647	F-10	SR-32	204+23.84	208+85.34	LT									519.2		519.2					
647	F-11	SR-32	204+07.35	210+35.98	RT									652.2		652.2					
648	F-12	SR-32	212+98.31	214+21.17	LT									119.9		119.9					
648	F-13	SR-32	212+12.04	232+50.00	RT									596.5		596.5					
649	F-14	SR-32	232+95.63	236+39.23	LT									354.2		354.2					
649	F-15	SR-32	235+05.16	238+76.91	RT									372.4		372.4					
SUBTOTAL FROM THIS SHEET						927.8	2	1						7,877.3	1	7,877.3		86.5		3,555.1	1,366.6
SUBTOTAL FROM SHEET 144						8,348.7	9	7	8	5							403.4		402.6	512.8	
TOTALS CARRIED TO GENERAL SUMMARY						9,277	11	8	8	5				7,877	1	7,877	403	87	403	4,068	1,367

CALCULATED MSW
CHECKED WAA

ROADWAY ESTIMATED QUANTITIES

CLE-32-3.50
(PHASE 5)

145
736

\\303.205\103954_GS501.dgn 11/19/2021 1:34:29 PM mswhitt

SHEET NO.	STATION FROM	STATION TO	203 EXCAVATION CY	203 EMBANKMENT CY	659 SEEDING AND MULCHING SY
	SR-32				
270	133+50.00	134+50.00	127	14	250
271	135+00.00	136+00.00	169	89	632
272	136+50.00	137+50.00	49	139	519
273	138+00.00	139+00.00	27	131	481
274	139+50.00	140+50.00	25	136	477
275	141+00.00	142+00.00	28	121	477
276	142+50.00	143+00.00	180	15	581
277	143+50.00	144+00.00	220	11	626
278	144+50.00	145+00.00	248	15	560
279	145+50.00	146+00.00	64	17	346
280	146+50.00	147+50.00	88	29	519
281	148+00.00	148+50.00	59	19	346
282	149+00.00	149+50.00	58	20	346
283	150+00.00	151+00.00	69	21	505
284	151+50.00	152+50.00	63	20	495
285	153+00.00	154+00.00	36	25	210
286	157+00.00	158+50.00	11	31	197
287	159+00.00	160+00.00	107	24	263
288	160+50.00	171+00.00	7	5	56
289	171+50.00	172+50.00	143	37	420
290	173+00.00	174+00.00	189	39	459
291	174+50.00	175+50.00	160	92	559
292	176+00.00	177+00.00	175	7	312
293	177+50.00	178+50.00	198	18	325
294	179+00.00	180+00.00	221	7	308
295	180+50.00	181+50.00	226	94	500
296	182+00.00	183+00.00	189	148	448
297	183+50.00	184+50.00	168	124	290
298	185+00.00	186+00.00	254	107	337
299	186+50.00	187+50.00	484	132	351
300	188+00.00	189+00.00	593	125	492
301	189+50.00	190+50.00	118	173	826
302	191+00.00	191+50.00	40	279	690
303	192+00.00	192+50.00	33	417	772
304	193+00.00	193+50.00		596	545
305	194+50.00	194+50.00		679	421
306	195+00.00	195+50.00	1	1087	494
307	196+00.00	196+50.00	99	1606	610
308	197+00.00	197+50.00	154	1598	603
309	198+00.00	198+50.00	77	120	143
310	199+00.00	199+50.00	58	1746	454
311	200+00.00	200+50.00	15	2360	674
312	201+00.00	201+50.00	8	2194	667
313	202+00.00	202+50.00	2	2150	669
314	203+00.00	203+50.00		1,798	647
315	204+00.00	205+00.00		1854	865
316	205+50.00	206+00.00		586	578
317	206+50.00	207+00.00	41	842	644
318	207+50.00	208+00.00	133	815	614
319	208+50.00	209+00.00	279	754	715
320	209+50.00	210+00.00	168	503	538
321	210+50.00	211+00.00	160	362	445
322	211+50.00	212+00.00	136	283	394
323	212+50.00	213+00.00	140	214	390
324	213+50.00	214+50.00	314	151	682
325	215+00.00	216+00.00	357	93	641
326	216+50.00	232+00.00	96	64	291
327	232+50.00	233+50.00	48	60	500
328	234+00.00	235+00.00	76	91	654
329	235+50.00	236+50.00	135	135	856

SHEET NO.	STATION FROM	STATION TO	203 EXCAVATION CY	203 EMBANKMENT CY	203 EMBANKMENT, AS PER PLAN CY	659 SEEDING AND MULCHING SY	840 SELECT GRANULAR BACKFILL CY
	SR-32 (CONT.)						
330	237+00.00	238+00.00	54	33		294	
331	238+50.00	239+50.00	32	13		186	
	SR-32 SUBTOTAL:		7,409	25,468		30,189	
	REVISED SUBTOTAL FOR EMBANKMENT, APP:			-305	305		
	RAMP N						
332	188+43.69	189+50.00	128	116		201	
333	190+00.00	191+00.00	354	159		343	
334	191+50.00	192+50.00	82	322		395	
335	193+00.00	194+00.00	54	1,643		494	
336	194+50.00	195+00.00	31	2,374		433	
337	195+50.00	196+00.00	36	3,402		542	18
338	196+50.00	197+00.00	33	4,651		734	
339	197+50.00	197+50.00	10	3,406		374	
	RAMP N SUBTOTAL:		728	16,073		3,516	18
	REVISED SUBTOTAL FOR EMBANKMENT, APP:			-1,040	1,040		
	RAMP O						
340	188+87.44	189+50.00	112	14		9	
341	190+00.00	191+00.00	168	27		29	
342	191+50.00	192+50.00	12	224		122	
343	193+00.00	194+00.00		1813		326	
344	194+50.00	195+00.00		2690		342	
345	195+50.00	196+00.00		3494		356	
346	196+50.00	196+93.90		1675			
	RAMP O SUBTOTAL:		292	9,937		1,184	
	REVISED SUBTOTAL FOR EMBANKMENT, APP:			-1,047	1,047		
	RAMP P						
347	198+50.00	199+00.00	14	1420		279	
348	199+50.00	200+00.00	25	1324		181	
349	200+50.00	201+00.00	22	2049		233	
350	201+50.00	202+00.00	20	1801		215	
351	202+50.00	203+00.00	21	1056		86	
352	203+50.00	204+50.00	44	1912		367	
353	205+00.00	205+49.91	52	1188		426	
	RAMP P SUBTOTAL:		198	10,750		1,787	
	REVISED SUBTOTAL FOR EMBANKMENT, APP:			-1,107	1,107		
	RAMP Q						
354	199+00.00	199+50.00		2,121			
355	200+00.00	200+50.00	140	6,562		708	
356	201+00.00	201+50.00	185	5,863		879	
357	202+00.00	202+50.00	240	3,606		829	
358	203+00.00	203+50.00	231	1,933		733	
359	204+00.00	205+00.00	239	1,982		799	
360	205+50.00	206+50.00	146	1,947		690	
361	207+00.00	208+05.69	218	976		617	
	RAMP Q SUBTOTAL:		1,399	24,990		5,255	
	REVISED SUBTOTAL FOR EMBANKMENT, APP:			-1,336	1,336		
	EX OLD 74						
398	201+00.00	202+01.56	124	1		66	
399	202+50.00	205+25.00	21	40		93	
400	205+50.00	205+75.00	8	5		30	
	EX OLD 74 SUBTOTAL:		153	46		189	

SHEET NO.	STATION FROM	STATION TO	203 EXCAVATION CY	203 EMBANKMENT CY	203 EMBANKMENT, AS PER PLAN CY	659 SEEDING AND MULCHING SY	840 SELECT GRANULAR BACKFILL CY
	GLEN ESTE-WITHAMSVILLE RD.						
362	16+57.00	17+50.00	18	96		276	
363	18+00.00	18+80.00	10	181		534	
364	21+20.00	22+00.00	41	562		488	
365	22+50.00	23+50.00	18	256		828	
366	23+95.00	25+00.00	4	77		237	
	GLEN ESTE-WITH. SUBTOTAL:		91	1,172		2,363	
	BACH BUXTON RD.						
367	332+43.25	333+50.00	641	70		360	
368	334+00.00	335+00.00	984	304		452	
369	335+50.00	336+00.00	108	1071		482	
370	336+50.00	336+50.00		1445		323	
371	337+00.00	337+00.00		2127		384	
372	337+50.00	337+50.00		2939		450	
373	338+00.00	338+00.00		3648		503	
374	338+50.00	338+50.00		4066		500	
375	339+00.00	339+00.00		4975		529	
376	339+50.00	339+50.00		5248		448	
377	340+41.63	340+41.63		9129			
378	340+71.63	340+71.63					
379	342+24.45	342+24.45					
380	342+54.45	342+54.45					
381	343+50.00	343+50.00	67	12076			
382	344+00.00	344+00.00	57	6832		642	
383	344+50.00	344+50.00	29	6664		731	
384	345+00.00	345+00.00	11	5673		633	
385	345+50.00	345+50.00	15	4695		547	
386	346+00.00	346+00.00	15	3802		486	
387	346+50.00	347+00.00	6	4834		805	
388	347+50.00	348+50.00	927	670		452	
389	348+68.26	348+68.26	417			78	
	BACH BUXTON SUBTOTAL:		3,277	80,268		8,805	
	REVISED SUBTOTAL FOR EMBANKMENT, APP:			-4,074	4,074		
	FAYARD DR. (NORTH)						
390	10+35.00	11+00.00	163	15		128	
391	11+29.00	11+29.00	39	10		70	
	FAYARD SUBTOTAL:		202	25		198	
	ELICK LN (SOUTH)						
392	47+50.00	48+50.00	7	11		58	
393	49+00.00	50+00.00	14	36		196	
394	50+50.32	50+50.32	39	3		41	
	ELICK LN (SOUTH) SUBTOTAL:		60	50		295	
	ELICK LN (NORTH)						
395	60+35.61	61+00.00	101	21		149	
396	61+50.00	62+50.00	120	51		225	
397	63+00.00	63+55.12	15	7		83	
	ELICK LN (NORTH) SUBTOTAL:		236	79		457	
	GRAND TOTALS CARRIED TO GENERAL NOTES					54,238	
	GRAND TOTALS CARRIED TO GENERAL SUMMARY		14,045	159,948	8,605		18

CALCULATED MSW
CHECKED WAA

EARTHWORK SUBSUMMARY

CLE-32-3.50
(PHASE 5)

147
736

..\303.205\103954_GS501.dgn 11/19/2021 1:35:28 PM mswhitt

TOTALS CARRIED TO GENERAL SUMMARY	149	150	151		ESTIMATED QUANTITIES		
107	56	39	12	SY	TIED CONCRETE BLOCK MAT, TYPE 2		601
10	5		5	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC		601
1,458	556	391	511	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN		601
338		338		FT	PAVED GUTTER, TYPE 3, AS PER PLAN		601
2.1	1.1		1.0	CY	CONCRETE MASONRY		602
1,415	1415			FT	12" CONDUIT, TYPE B		611
44	44			FT	12" CONDUIT, TYPE C		611
1,103	345	395	363	FT	15" CONDUIT, TYPE B		611
141	17	124		FT	15" CONDUIT, TYPE C		611
618	70		548	FT	15" CONDUIT, TYPE C, 706.02, JOINTS PER 706.11		611
43	43			FT	15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21		611
196	87	109		FT	18" CONDUIT, TYPE B		611
460	142	250	68	FT	18" CONDUIT, TYPE C		611
769	94	597	78	FT	24" CONDUIT, TYPE B		611
40		40		FT	24" CONDUIT, TYPE C		611
450		450		FT	36" CONDUIT, TYPE B		611
559		401	158	FT	42" CONDUIT, TYPE B		611
276	276			FT	48" CONDUIT, TYPE B		611
66		66		FT	CONDUIT, BORED OR JACKED: 15" TYPE B		611
69		69		FT	CONDUIT, BORED OR JACKED: 18" TYPE B		611
176		176		FT	CONDUIT, BORED OR JACKED: 24" TYPE B		611
55			55	FT	CONDUIT, BORED OR JACKED: 42" TYPE B		611
3		1	2	EACH	CATCH BASIN, NO. 3		611
4	4			EACH	CATCH BASIN, NO. 3, AS PER PLAN		611
16	15	1		EACH	CATCH BASIN, NO. 3A		611
1	1			EACH	CATCH BASIN, NO. 3A, AS PER PLAN		611
6	2	2	2	EACH	CATCH BASIN, NO. 8		611
5	1	3	1	EACH	CATCH BASIN, NO. 8A		611
6	4		2	EACH	CATCH BASIN, NO. 2-2B		611
1	1			EACH	CATCH BASIN ADJUSTED TO GRADE		611
8	2	5	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D		611
20	2	11	7	EACH	MANHOLE, NO. 3		611
2	2			EACH	MANHOLE ADJUSTED TO GRADE		611

SHEET NO.	REF NO.	STATION FROM	STATION TO	CHAIN	SIDE	601 TIED CONCRETE BLOCK MAT, TYPE 2 SY	601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	601 PAVED GUTTER, TYPE 1-2, AS PER PLAN FT	602 CONCRETE MASONRY CY	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE C, 706.02, JOINTS PER 706.11 FT	611 15" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21 FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE B FT	611 48" CONDUIT, TYPE B FT	611 CATCH BASIN, NO. 3, AS PER PLAN EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 3A, AS PER PLAN EACH	611 CATCH BASIN, NO. 8 EACH	611 CATCH BASIN, NO. 8A EACH	611 CATCH BASIN, NO. 2-2B EACH	611 CATCH BASIN ADJUSTED TO GRADE EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE ADJUSTED TO GRADE EACH
439	D1	333+50.00	333+50.00	BACH BUX	LT						10														1				
439	D2	333+50.00	332+68.87	BACH BUX	LT											77				1									
439	D3	335+00.00	333+50.00	BACH BUX	LT							150								1									
439	D4	335+05.00	335+00.00	BACH BUX	RT					82										1									
439	D5	335+75.00	335+05.00	BACH BUX	RT					71										1									
440	D6	337+00.00	335+00.00	BACH BUX	LT					200										1									
440	D7	337+00.00	337+00.00	BACH BUX	RT					99										1									
440	D8	339+00.00	337+00.00	BACH BUX	RT					204										1									
440	D9	196+13.22	196+48.37	RAMP O	LT							46								1									
440	D10	339+35.63	196+48.37	BACH BUX	LT							48								1									
440	D11	196+48.37	195+87.27	RAMP O	RT							43			43												1		
440	D12	198+87.27	194+51.00	RAMP O	RT												142						1						
440	D13	338+78.31		BACH BUX	RT					15										1									
440	D87	198+50.00	199+00.00	RAMP P	RT									70									1						
440	D88	198+69.00	203+91.00	RAMP P	RT			556																					
441	D14	344+50.00	344+50.00	BACH BUX	LT					113										1									
441	D15	344+50.00	346+00.00	BACH BUX	RT					154																	1		
441	D16	346+00.00	346+00.00	BACH BUX	LT					109										1									
441	D17	346+00.00	347+50.00	BACH BUX	RT					154																	1		
441	D18	197+00.00	198+28.18	RAMP N	LT		5		1.1										276					1					
441	D19	199+31.00		RAMP Q	RT	56																							
442	D20	347+50.00	347+50.00	BACH BUX	LT					93										1									
442	D21	347+50.00	348+70.00	BACH BUX	RT					121										1									
443	D22	16+76.00		GEW	RT							10								1									
443	D23	18+75.43		GEW	RT								7												1				
443	D24	18+75.75		GEW	RT											10				1									
444	D25	22+08.86	22+09.45	GEW	RT						10										1								
444	D26	22+09.45		GEW	RT								5											1					
444	D27	24+05.27	24+01.48	GEW	LT						19									1									
444	D28	24+01.48		GEW	LT						5		5												1				
446	D29	50+55.70	50+45.62	BACH CDS	RT							28								1									
446	D30	50+45.62		BACH CDS	RT							10																1	
446	D31	62+09.04		ELICK	LT																					1			
446	D32	62+03.08		ELICK	LT							10								1									
446	D33	61+92.43		ELICK	LT																								1
446	D34	60+52.00	189+00.00	ELICK	LT													94											1
449	D35	NOT USED																											
449	D36	NOT USED																											
TOTALS CARRIED TO DRAINAGE SUBSUMMARY						56	5	556	1.1	1415	44	345	17	70	43	87	142	94	276	4	15	1	2	1	4	1	2	2	2

CALCULATED MHT
CHECKED WAA

DRAINAGE ESTIMATED QUANTITIES

CLE-32-3.50
(PHASE 5)

149
736

mswhitt 11/19/2021 1:35:31 PM ...\1039540DS001.dgn

DRAINAGE ESTIMATED QUANTITIES

CALCULATED MHT CHECKED WAA

CLE-32-3.50 (PHASE 5)

SHEET NO.	REF NO.	STATION FROM	STATION TO	CHAIN	SIDE	601 TIED CONCRETE BLOCK MAT, TYPE 2 SY	601 PAVED GUTTER, TYPE 1-2, AS PER PLAN FT	601 PAVED GUTTER, TYPE 3, AS PER PLAN FT	611 12" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE B FT	611 24" CONDUIT, TYPE C FT	611 36" CONDUIT, TYPE B FT	611 42" CONDUIT, TYPE B FT	611 CONDUIT, BORED OR JACKED: 15" TYPE B FT	611 CONDUIT, BORED OR JACKED: 18" TYPE B FT	611 CONDUIT, BORED OR JACKED: 24" TYPE B FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 8 EACH	611 CATCH BASIN, NO. 8A EACH		611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 MANHOLE, NO. 3 EACH
450	D37	NOT USED																								
450	D38	NOT USED																								
450	D39	NOT USED																								
451	D40	NOT USED																								
452	D41	10+00.62		FAYARD	C						17									1						
455	D42	183+50.00	184+00.00	SR 32	LT							51											1			
455	D43	184+00.00	184+00.00	SR 32	LT														80						1	
455	D44	NOT USED																								
455	D45	184+00.00	184+00.00	SR 32	RT													66				1				
455	D46	184+00.00	186+00.00	SR 32	C									200												1
456	D47	186+00.00	188+00.00	SR 32	C									200												1
456	D48	189+00.00	188+00.00	RAMP N	LT									101									1			
456	D49	188+00.00	188+00.00	RAMP N	LT									96											1	
456	D50	190+33.00	189+50.00	RAMP O	RT					83															1	
456	D51	189+50.00	188+67.65	RAMP O	RT						83														1	
456	D52	188+67.65	188+26.77	RAMP O	RT						5		41													1
456	D53	187+88.14	187+88.25	RAMP O	RT						19														1	
456	D54	187+50.00	187+88.14	RAMP O	RT					237													1			
456	D55	187+88.85	188+26.77	RAMP O	RT								5		40											1
456	D56	188+26.77	188+00.00	RAMP O	RT														96							1
456	D57	NOT USED																								
456	D57A	188+00.00	191+00.00	SR32	C											300										1
456	D58	189+21.00		RAMP N	LT	13																				
456	D59	185+50.00	188+89.00	RAMP N	LT			338																		
457	D60	191+00.00	192+50.00	SR 32	C											150										1
457	D61	194+50.00	192+50.00	RAMP O	RT								204													1
457	D62	192+50.00	192+50.00	RAMP O	RT							58														1
457	D63	192+50.00	192+50.00	SR 32	RT														69			1				
457	D64	192+50.00	195+00.00	SR 32	C												245									1
457	D65	194+50.00	195+00.00	SR 32	RT					75												1				
457	D66	NOT USED																								
457	D66A	195+00.00	196+50.00	SR 32	C												156									1
457	D67	192+46.00		RAMP O	LT	26																				
457	D68	193+09.00	197+00.00	SR 32	RT		391																			
TOTALS CARRIED TO DRAINAGE SUBSUMMARY						39	391	338		395	124	109	250	597	40	450	401	66	69	176	1	1	2	3		5	11

SHEET NO.	REF NO.	STATION FROM	STATION TO	CHAIN	SIDE	601 TIED CONCRETE BLOCK MAT, TYPE 2 SY	601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	601 PAVED GUTTER, TYPE 1-2, AS PER PLAN FT	602 CONCRETE MASONRY CY	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C, 706.02, JOINTS PER 706.11 FT	611 18" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE B FT	611 42" CONDUIT, TYPE B FT	611 CONDUIT, BORED OR JACKED: 42" TYPE B FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 8 EACH	611 CATCH BASIN, NO. 8A EACH	611 CATCH BASIN, NO. 2-2B EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D EACH	611 MANHOLE, NO. 3 EACH
458	D69	196+50.00	196+50.00	SR 32	C										55						1
458	D70	196+50.00	197+00.00	SR 32	LT									158				1			
458	D71	NOT USED																			
458	D72	198+43.00	202+92.00	SR 32	RT			449													
458	D84	197+00.00	197+33.00	SR 32	LT			31													
458	D85	198+91.00	199+22.00	SR 32	LT			31													
458	D89	199+00.00	201+73.00	RAMP P	RT						273										1
459	D73	202+70.34	202+68.50	RAMP P	LT					7									1		
459	D74	202+68.50	204+51.00	RAMP P	LT					182										1	
459	D75	204+00.00	204+50.96	SR 32	RT					61							1				
459	D76	204+50.96	204+51.00	SR 32	RT					13											1
459	D77	204+51.00	204+50.00	RAMP P	LT		2		0.3	52											1
459	D78	NOT USED																			
459	D79	206+75.00	206+50.00	RAMP Q	LT					38						1					
459	D80	206+50.00	205+80.70	SR 32	LT							68					1				
459	D81	205+80.70	205+69.70	SR 32	LT		2		0.5				78								1
459	D86	204+46.00		RAMP P	LT	12															
459	D90	201+73.00	201+73.00	RAMP P	RT						17								1		
459	D91	201+73.00	204+00.00	RAMP P	RT						228										1
459	D92	204+00.00	204+25.00	RAMP P	RT		1		0.3		30										1
461	D82	NOT USED																			
462	D83	202+40.97		OLD 74	RT					10						1					
TOTALS CARRIED TO DRAINAGE SUBSUMMARY						12	5	511	1.0	363	548	68	78	158	55	2	2	1	2	1	7

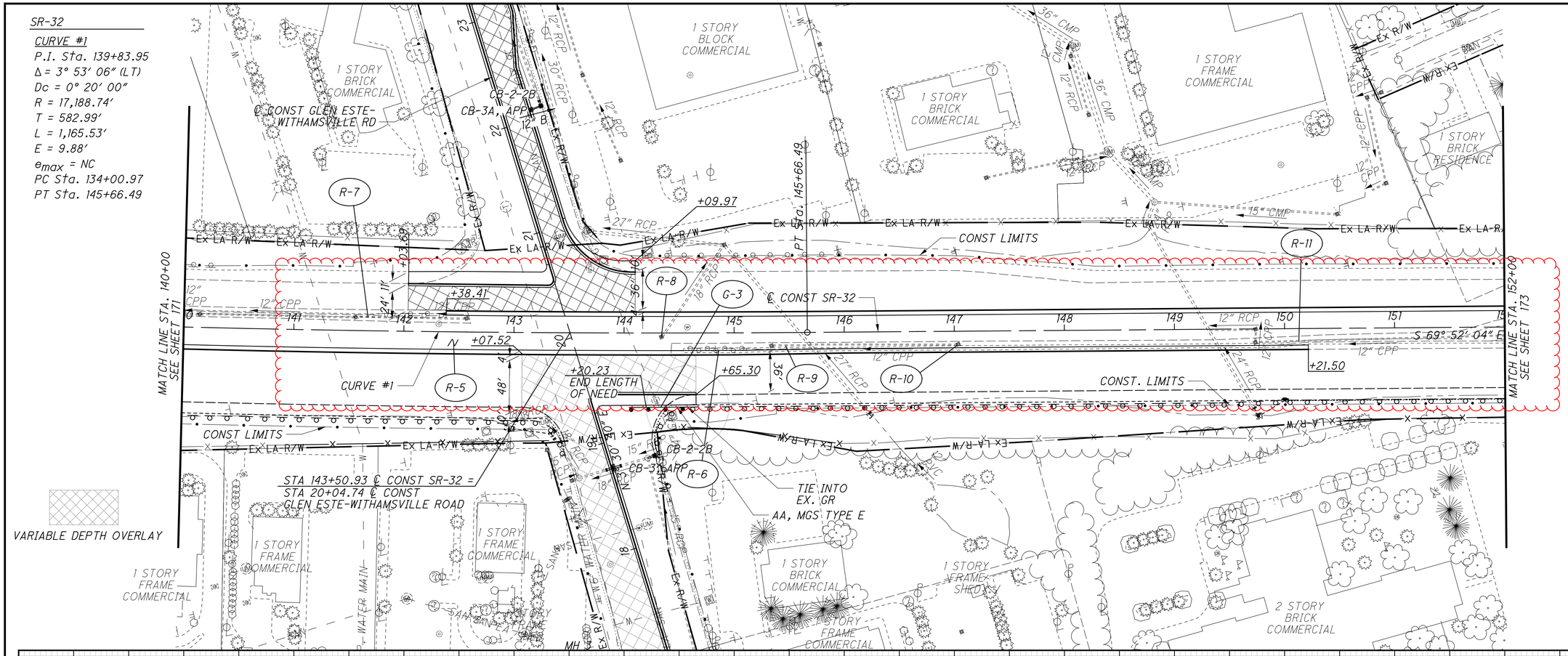
CALCULATED MHT CHECKED WAA

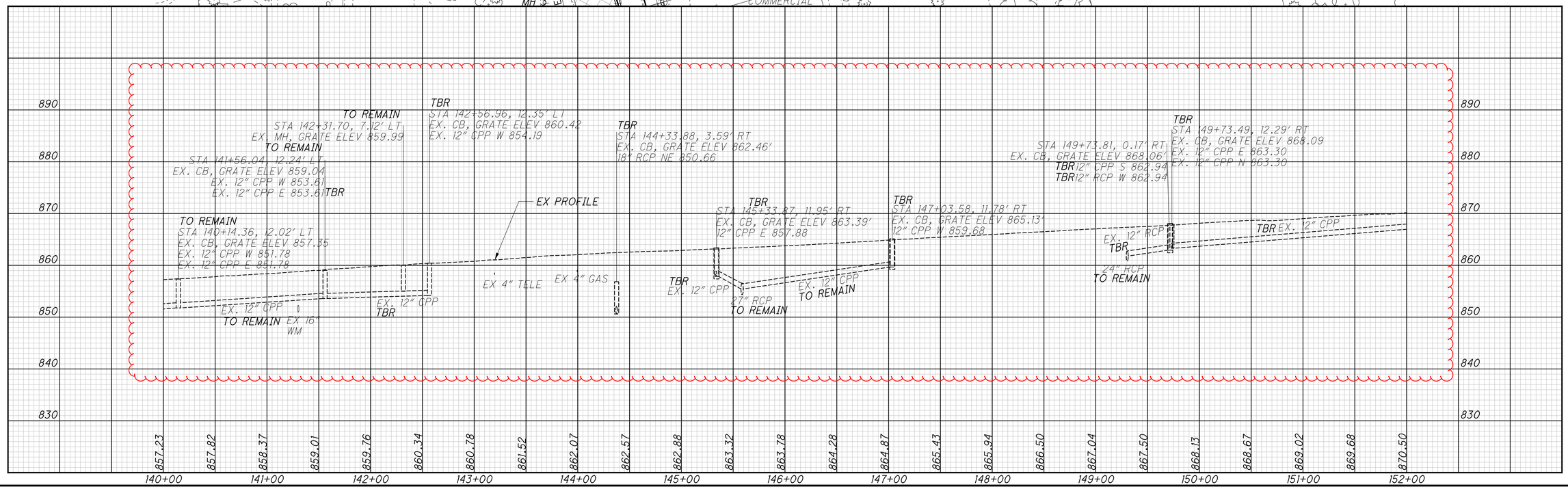
DRAINAGE ESTIMATED QUANTITIES

CLE-32-3.50 (PHASE 5)

SR-32

CURVE #1
P.I. Sta. 139+83.95
Δ = 3° 53′ 06″ (LT)
Dc = 0° 20′ 00″
R = 17,188.74′
T = 582.99′
L = 1,165.53′
E = 9.88′
e_{max} = NC
PC Sta. 134+00.97
PT Sta. 145+66.49





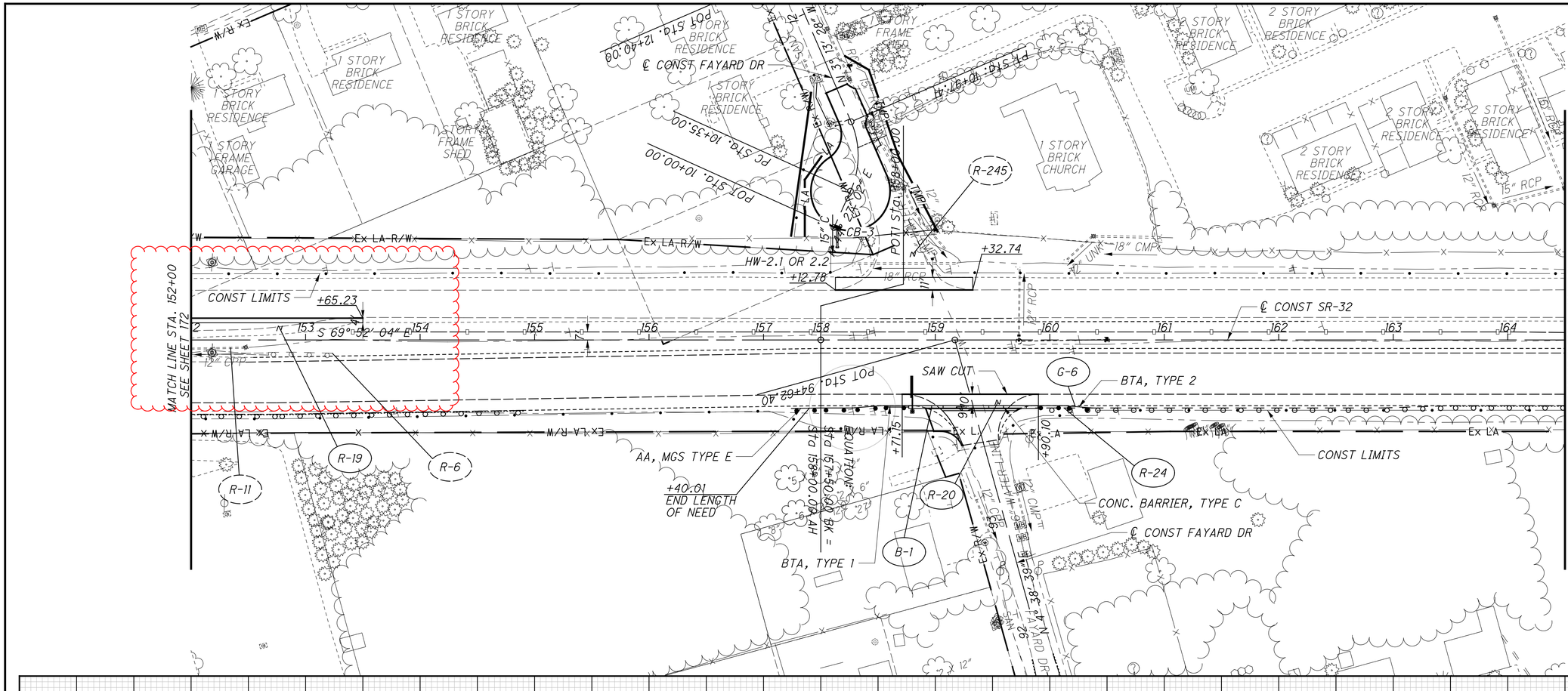
CALCULATED GAH CHECKED WAA

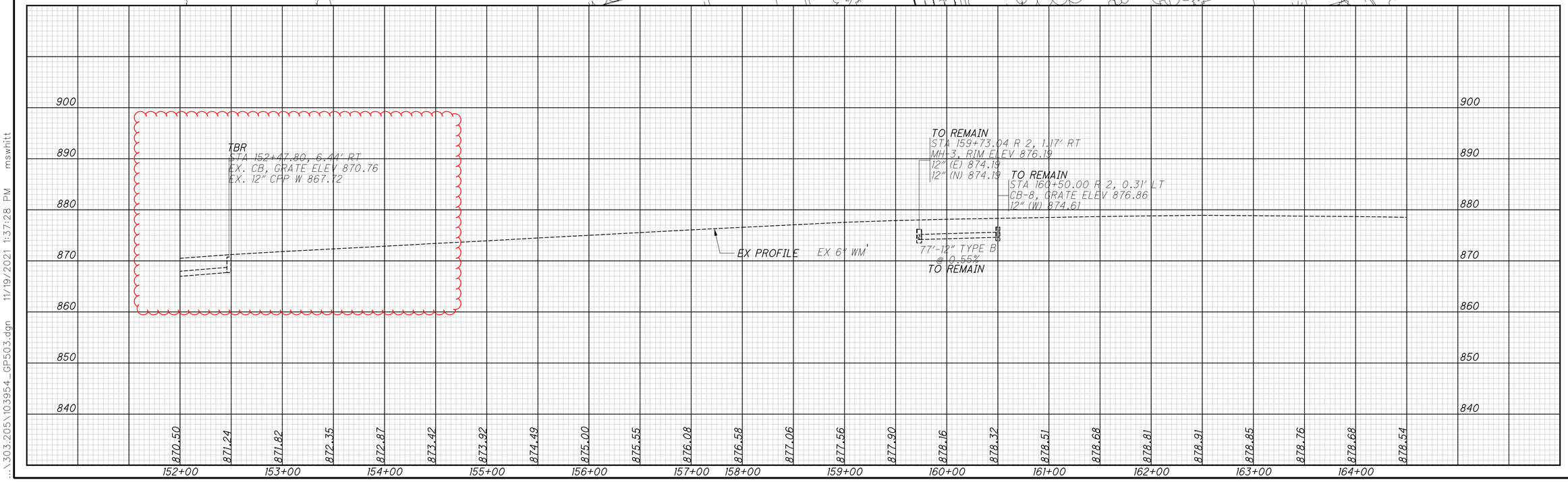
HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - SR-32
STA. 140+00 TO STA. 152+00

CLE-32-3.50
(PHASE 5)

172
736





PLAN AND PROFILE - SR-32
STA. 152+00 TO STA. 164+50

CLE-32-3.50
(PHASE 5)

CALCULATED GAH
CHECKED WAA

HORIZONTAL SCALE IN FEET
0 25 50 100

173
736

...\303.205\103954_GP503.dgn 11/19/2021 1:37:28 PM mswhitt

BARRIER LEGEND
△ END SECTION, TYPE D
□ END ANCHORAGE, TYPE D
ϕ END SECTION, TYPE C1

VARIABLE DEPTH OVERLAY

CONST LIMITS
℄ CONST SR-32
℄ CONST RAMP N
℄ CONST RAMP O
℄ CONST ELICK LN
PAVED GUTTER, TYPE 3, AS PER PLAN
CONC BARRIER, TYPE D
GR, TYPE MGS
BTA, TYPE 2
AA, TYPE T
AA, TYPE E
GR, TYPE MGS CURB, TYPE 4C
BEGIN CURB, TYPE 4C
MATCH LINE STA. 176+50 SEE SHEET 174
MATCH LINE STA. 188+50 SEE SHEET 176
PC Sta. 184+40.25
PT Sta. 181+01.20
PC Sta. 50+85.50
PC Sta. 50+08.38
PT Sta. 49+70.82
S 69°-52'-04" E
1 STORY FRAME COMMERCIAL
Ex LA
Ex SW
Ex ASPH
Ex CONC
Ex GR
LA R/W
R-39
R-40
R-41
R-42
R-43
R-44
G-10
G-23
B-3
B-8
C-1
I-3-B
I-3-D
CB-3A
CB-8A
MH-3
18" TYPE B
24" TYPE B
15" TYPE B
24" CPP
36" B
24" C
18" C
15" RCP
18" RCP
24" CPP
15" CPP
8" UNK
12" UNK
5" UNK
12" PVC
8" PVC
+27.12
+25.03
+75.00
+24.98
+74.28
+24.19
+90.41
+43.80
+02.27
+10.20
+72.23
+35.00
47.5'
44'
36.0'
10'
2'

EX PROFILE
TBR
STA 181+98.45 R 2, 2.40' LT
CB-8, GRATE ELEV 861.87
15" (N) 860.23 TBR
STA 183+50.00 R 2, 81.34' LT
CB-8A, GRATE ELEV 861.50
18" (SE) 858.00
6" (W) (UD) 858.50
STA 184+00.00 R 2, 74.45' LT
I-3-D, GRATE ELEV 861.23
18" (NW) 857.16
24" (S) 856.48
6" (W) (UD) 856.98
STA 184+00.00 R 2, 5.00' RT
MH-3, RIM ELEV 861.26
15" (S) 856.77
24" (N) 855.94
24" (E) 855.94
STA 186+00.00 R 2, 5.08' RT
MH-3, RIM ELEV 860.37
24" (W) 854.11
24" (E) 854.11
TBR
STA 187+99.14 R 2, 11.33' LT
CB-8, GRATE ELEV 857.33
TBR 15" (N) 854.60
STA 188+00.00 R 2, 5.08' RT
MH-3, RIM ELEV 858.58
24" (W) 851.63
36" (E) 847.85
24" (S) 848.85
24" (N) 848.63
6" (W) (UD) 855.00
51'-18" TYPE B @ 1.65%
200'-24" TYPE B @ 0.92%
200'-24" TYPE B @ 1.24%
300'-36" TYPE B @ 1.00%
868.76 868.37 868.00 867.57 867.16 866.74 866.26 865.77 865.32 864.98 864.48 864.06 863.60 863.16 862.68 862.26 861.85 861.38 860.91 860.54 860.03 859.59 859.18 858.73 858.28
177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00
890 880 870 860 850 840 830

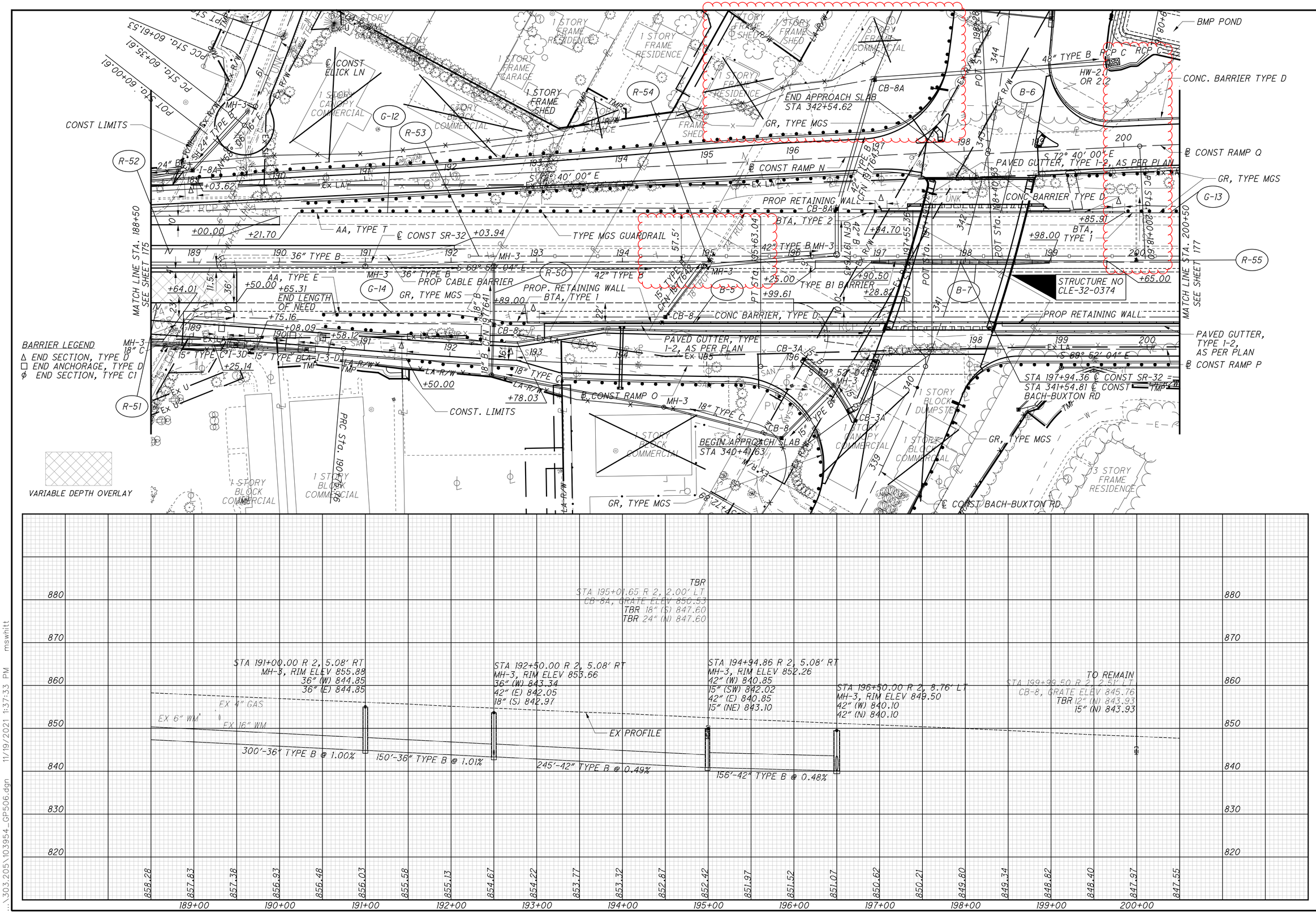
HORIZONTAL SCALE IN FEET
0 25 50 100
CALCULATED GAH CHECKED WAA

PLAN AND PROFILE - SR-32
STA. 176+50 TO STA. 188+50

CLE-32-3.50
(PHASE 5)

175
736

\303.205\103954_GP505.dgn 11/19/2021 1:37:30 PM mswhitt



HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED GAH CHECKED WAA

PLAN AND PROFILE - SR-32 STA. 188+50 TO STA. 200+50

CLE-32-3.50 (PHASE 5)

176 736

...\303.205\103954_GP506.dgn 11/19/2021 1:37:33 PM mswhitt

BARRIER LEGEND
Δ END SECTION, TYPE D
□ END ANCHORAGE, TYPE D
ϕ END SECTION, TYPE C1

SR-32
CURVE #2
P.I. Sta. 205+82.41
Δ = 2° 03′ 49″ (LT)
Dc = 1° 30′ 00″
R = 3,819.74′
T = 68.80′
L = 137.58′
E = 0.62′
emax = 0.037
PC Sta. 205+13.61
PCC Sta. 206+51.19

SR-32
CURVE #3
P.I. Sta. 209+99.75
Δ = 13° 55′ 35″ (LT)
Dc = 2° 00′ 27″
R = 2,854.00′
T = 348.57′
L = 693.70′
E = 21.21′
emax = 0.045
PCC Sta. 206+51.19
PCC Sta. 213+44.89

* CONC BARRIER, END ANCHORAGE, TYPE C, APP

TO REMAIN
STA 205+79.48 R 2, 0.33′ RT
EX. CB, GRATE ELEV 841.55
TBR EX. 18″ RCP S 833.38
EX. 24″ RCP N 833.38
24″ (S) 833.38

EX PROFILE

847.55 847.13 846.71 846.28 845.86 845.44 845.02 844.59 844.17 843.75 843.58 843.44 843.37 843.04 842.72 842.48 842.20 841.99 841.71 841.42 841.18 840.91 840.63 840.41 840.17

201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00

870 860 850 840 830 820 810

CALCULATED GAH CHECKED WAA

HORIZONTAL SCALE IN FEET 0 25 50 100

PLAN AND PROFILE - SR-32
STA. 200+50 TO STA. 212+50

CLE-32-3.50
(PHASE 5)

177
736

\\303.205\103954_GP507.dgn 11/19/2021 1:37:37 PM mswhitt

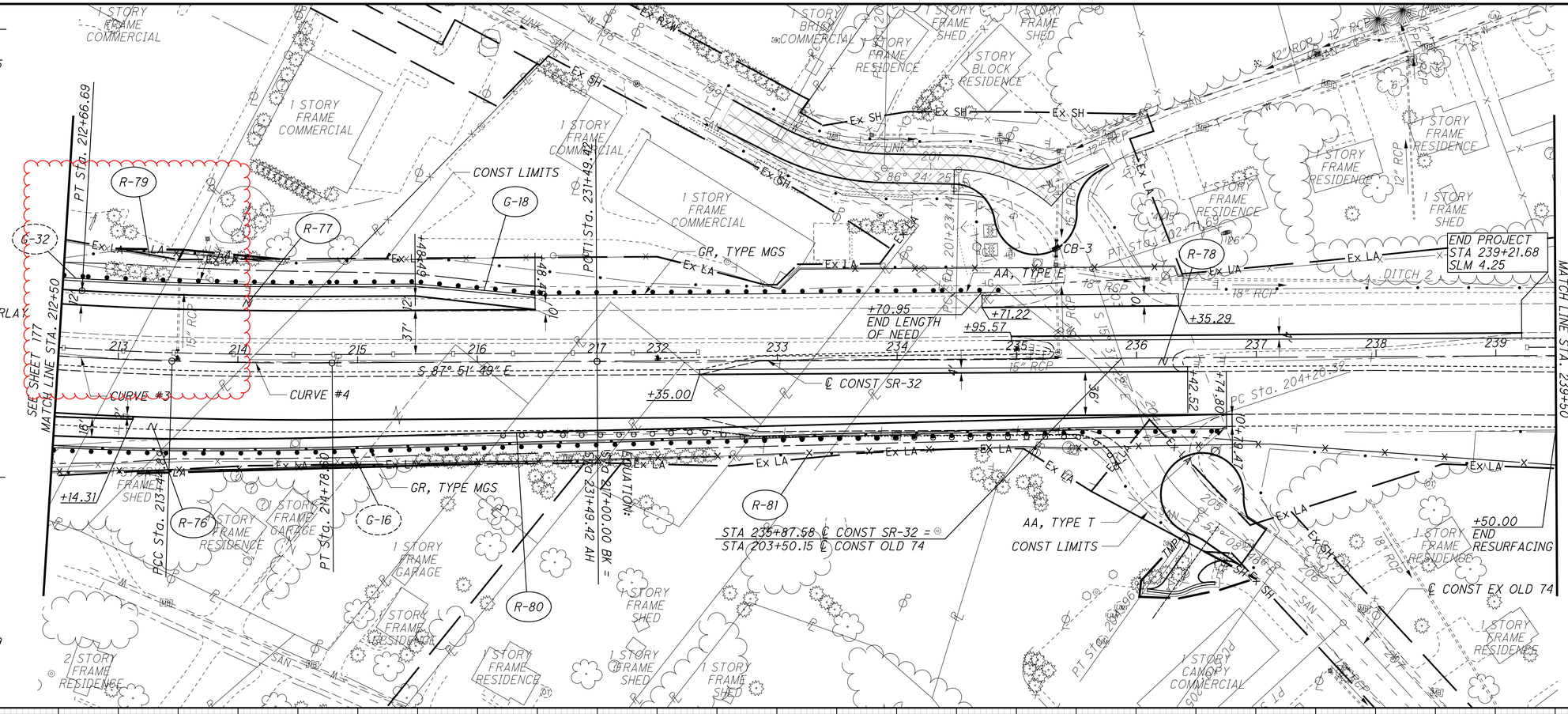
SR-32

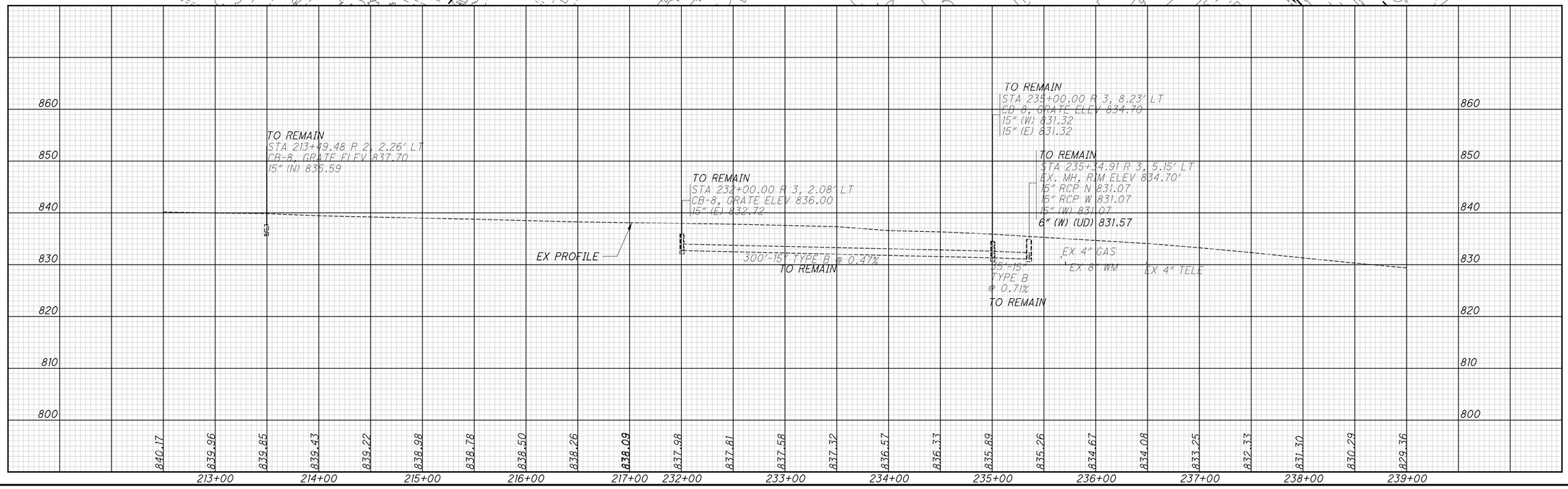
CURVE #3
P.I. Sta. 209+99.75
Δ = 13° 55′ 35″ (LT)
Dc = 2° 00′ 27″
R = 2,854.00′
T = 348.57′
L = 693.70′
E = 21.21′
e_{max} = 0.045
PCC Sta. 206+51.19
PCC Sta. 213+44.89

VARIABLE DEPTH OVERLAY

SR-32

CURVE #4
P.I. Sta. 214+11.75
Δ = 2° 00′ 21″ (LT)
Dc = 1° 30′ 00″
R = 3,819.74′
T = 66.86′
L = 133.72′
E = 0.59′
e_{max} = 0.037
PCC Sta. 213+44.89
PT Sta. 214+78.60





HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED GAH CHECKED WAA

PLAN AND PROFILE - SR-32
STA. 212+50 TO STA. 239+50

CLE-32-3.50
(PHASE 5)

178
736

BARRIER LEGEND

ΔEND SECTION, TYPE D

□END ANCHORAGE, TYPE D

ϕ END SECTION, TYPE C1

MATCHLINE STA. 194+00
SEE SHEET 181

GRAVEL

CONST LIMITS

1 STORY FRAME RESIDENCE

1-STORY FRAME SHED

R-114 G-20 R-117 R-115 R-116 R-241 G-37

48" TYPE B

℄ CONST BACH BUXTON RD

CB-8A

STA 198+28.18 ℄ CONST RAMP N
STA 342+89.36 ℄ CONST BACH BUXTON RD

R-113

CONCRETE

CR-1 I-1

BEGIN CURB, TYPE 4C
197+41.81

2' R

24'

℄ CONST RAMP N

GR, TYPE MGS

20' 6' 16'

195 196 197 198

+88.49

42" TYPE B
CFN 1977643

R-107

+85.64

BTA TYPE 2

78°34'7"

Ex R/W

CURB, TYPE 6

+54.61
21.10' LT

POT Sta. 198+28.18

R-118 CR-4 I-3

R-121

+53.99, END
CONC PAV'T

END ANCHORAGE,
TYPE D, APP A

R-119

℄ CONST RAMP Q

Ex LA

G-21

+34.86
+36.92

+93.11

B-10 +48.58

10' R

R-122

POT Sta. 198+40.83

GR, TYPE MGS

CB-8A

R-120

SAW CUT

342 343 344

℄ CONST SR-32

42" TYPE B

CB-8A 195

MH-3

STRUCTURE NO
CLE-32-0374

PROP PROFILE

EX PROFILE

+1.94 %

+1.36 %

PVI STA 197+74.44
ELEV = 869.95
Δ=0.58% (NO CURVE)

STA 198+24.44
ELEV = 870.68'

STA 197+00.00, 86.13' LT
CB-8A, GRATE ELEV 845.89
42" (S) 859.05
48" (E) 859.05

276'-48" TYPE B @ 0.38%

862.68 863.16 863.65 864.14 864.62 865.11 865.59 866.08 866.56 867.05 867.54 868.02 868.51 868.99 869.48 869.96 870.30 870.64

851.79 850.83 849.80 848.75 848.74 848.12 847.24 846.81 846.06

875 870 865 860 855 850 845 840

194+00 195+00 196+00 197+00 198+00

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MSW CHECKED WAA

PLAN AND PROFILE-RAMP N
STA 194+00 TO STA 198+28.18

CLE-32-3.50
(PHASE 5)

182
736

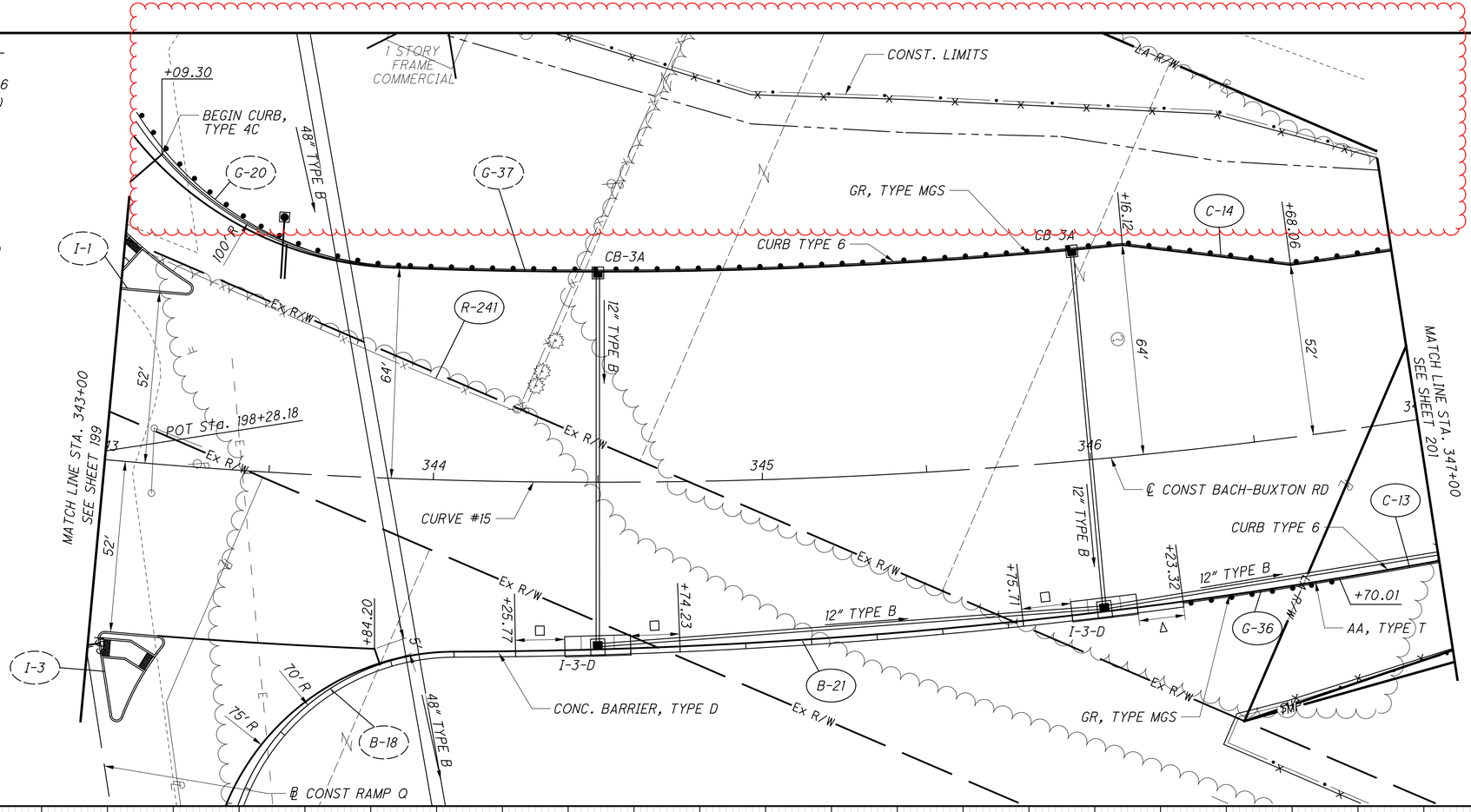
\303.205\103954_GP533.dgn 11/19/2021 1:38:51 PM mswhitt

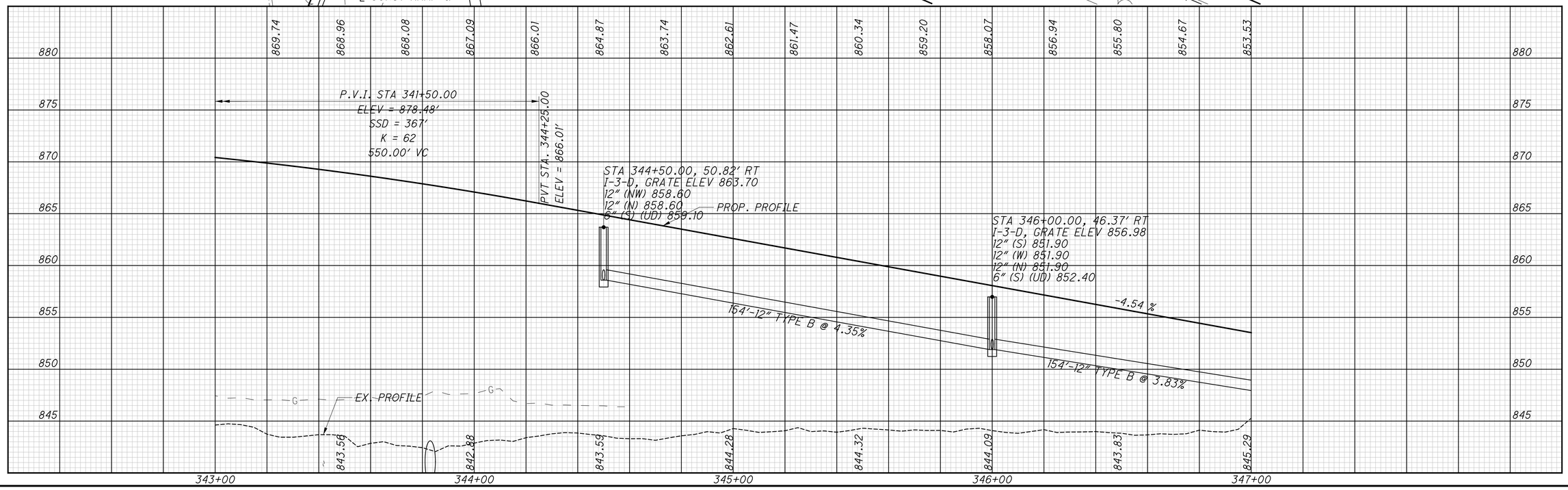
BACH-BUXTON RD

CURVE #15
P.I. Sta. 342+87.56
Δ = 34° 54′ 20″ (LT)
Dc = 3° 30′ 00″
R = 1,637.02′
T = 514.67′
L = 997.30′
E = 79.00′
e_{max} = NC
PC Sta. 337+72.89
PT Sta. 347+70.20

BARRIER LEGEND

△ END SECTION, TYPE D
□ END ANCHORAGE, TYPE D
ϕ END SECTION, TYPE C1





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED GAH
CHECKED WAA

PLAN AND PROFILE - BACH-BUXTON RD
STA 343+00 TO STA 347+00

CLE-32-3.50
(PHASE 5)

200
736

...\303.205\103954_GP569.dgn 11/19/2021 1:39:58 PM mswhitt

BACH-BUXTON RD
CURVE #15
P.I. Sta. 342+87.56
Δ = 34° 54′ 20″ (LT)
Dc = 3° 30′ 00″
R = 1,637.02′
T = 514.67′
L = 997.30′
E = 79.00′
e_{max} = NC
PC Sta. 337+72.89
PT Sta. 347+70.20

CONST LIMITS
G-37
C-14
SH
GR, TYPE MGS
CB-3A
MATCH LINE STA. 347+00 SEE SHEET 200
12" TYPE B
PT Sta. 347+70.20
52'
CURB TYPE 6
AA, TYPE E
+15.75 END LENGTH OF NEED
50' R
15" RCP
12" RCP
211
1 STORY BRICK RESIDENCE
1 STORY FRAME RESIDENCE
EX SH
POT Sta. 349+76.78
212
348
349
N 14° 52′ 43″ E
CURVE #15
℄ CONST BACH-BUXTON RD
40'
STA 349+76.78 ℄ CONST BACH-BUXTON RD = STA 212+08.74 ℄ CONST OLD SR-74
1 STORY FRAME SHED
12" TYPE B
C-13
+15.00
TMP
CURB TYPE 6
350' R
18" RCP
SAN
223
END PROJECT 5 STA 348+68.26 PID#103954
BEGIN PROJECT 6 PID#103955
℄ CONST OLD SR-74

865 860 855 850 845 840 835 830

853.53 852.40 851.27 850.13 849.00 847.87 846.73 845.60 844.53 844.16 844.58 845.14

END PROJECT 5 PID#103954 | BEGIN PROJECT 6 PID#103955

STA 347+50.00, 41.93′ RT
CB-3A, GRATE ELEV 850.26
12" (S) 846.00
12" (W) 845.80
12" (N) 845.80
6" (S) (UD) 846.30

EX. PROFILE
PROP. PROFILE
-4.54 %
-4.54 %
MATCHLINE STA. 348+68.26 ELEV = 845.90'

TO REMAIN
STA 348+70.00, 40.00′ PT
CB-3A, GRATE ELEV 844.86
12" (S) 840.80
12" (NE) 840.80
6" (S) (UD) 841.10

154'-12" TYPE B @ 3.83%
121'-12" TYPE B @ 4.13%
42'-12" TYPE B @ 4.29%
TO REMAIN

845.29 849.62 849.40 848.79 847.46 845.17

347+00 348+00 349+00

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED GAH CHECKED WAA

PLAN AND PROFILE - BACH-BUXTON RD
STA 347+00 TO STA 349+76.78

CLE-32-3.50
(PHASE 5)

201
736

\303.205\103954_GP570.dgn 11/19/2021 1:40:01 PM mswhitt

CONST LIMITS

POT1 Sta. 158+00.00

POT Sta. 10+00.00

C-16

POT Sta. 10+35.00

PT Sta. 10+97.41

HW-2.1 OR 2.2

15" TYP. C

CB-3

44° 27' 02" E

EX SAN MH (DND)

CURB TYPE 6

END WORK STA 11+54.00

POT Sta. 94+62.40

℄ CONST SR-32

134.5' R

+00.42

+73.80

END CURB, TYPE 4C

CURVE #16

71°57'54" BEGIN CURB, TYPE 6C

10' R

20' R

10.0'

N 3° 13' 28" W

18" RCP

6" WATER LINE

12" CMP

12" RCP

15" RCP

26'

+29.00

TMP

STA 10+78.58 OFF 18.50' RT

R-245

℄ CONST FAYARD DR

FAYARD DR

JAMESTOWN CROSSING

JOYCE DR

1 STORY BRICK RESIDENCE

1 STORY FRAME RESIDENCE

1 STORY FRAME SHED

Ex R/W

SAN

W

FAYARD DR

CURVE #16

P.I. Sta. 10+68.14

Δ = 47° 40' 31" (LT)

Dc = 76° 23' 40"

R = 75.00'

T = 33.14'

L = 62.41'

E = 6.99'

e_{max} = NC

PC Sta. 10+35.00

PT Sta. 10+97.41

878.82 878.99 879.15 879.31

CB-3, GRATE ELEV 878.36

15" (S) 875.11

6" (E&W) (UD) 875.71

STA 10+35.00 EL = 878.73'

STA 11+29.00 EL = 879.34'

+0.65 %

+0.65 %

+0.49 %

17'-5" TYPE C @ 3.28%

EX PROFILE

PROP PROFILE

STA 11+03.16, 17.51' LT

EX. SAN MH, GRATE ELEV 878.24

EX. 8" PLA NW 871.55

DND

877.94 878.79 879.15 879.50 879.66

895 890 885 880 875 870 865 860 855

10+00 11+00 12+00

HORIZONTAL SCALE IN FEET

0 10 20 40

CALCULATED GAH CHECKED WAA

PLAN AND PROFILE - FAYARD DR

STA 10+00 TO STA 12+40

CLE-32-3.50 (PHASE 5)

202 736

\303.205\103954_GP571.dgn 11/19/2021 1:40:05 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

EX LA-R/W

EX LA-R/W

EX LA-R/W

TBR 12" CPP

8:1

8:1

858.2

142+00.00 R 1
859.82

TO REMAIN
STA 141+56.04, 12.21' LT
EX. CB, GRATE ELEV 859.04'
12" CPP W 853.61
TBR 12" CPP E 853.61
12" (E) 853.61

50.5:1

141+50.00 R 1
859.03

69:1

TO REMAIN
12" CPP

EX. 16" WATER LINE

141+00.00 R 1
858.50

870 865 860 855 850 845

110 100 90 80 70 60 50 40 30 20 10 0

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA. 141+00.00 TO STA. 142+00.00

CLE-35-3.50
PHASE 5

213
736

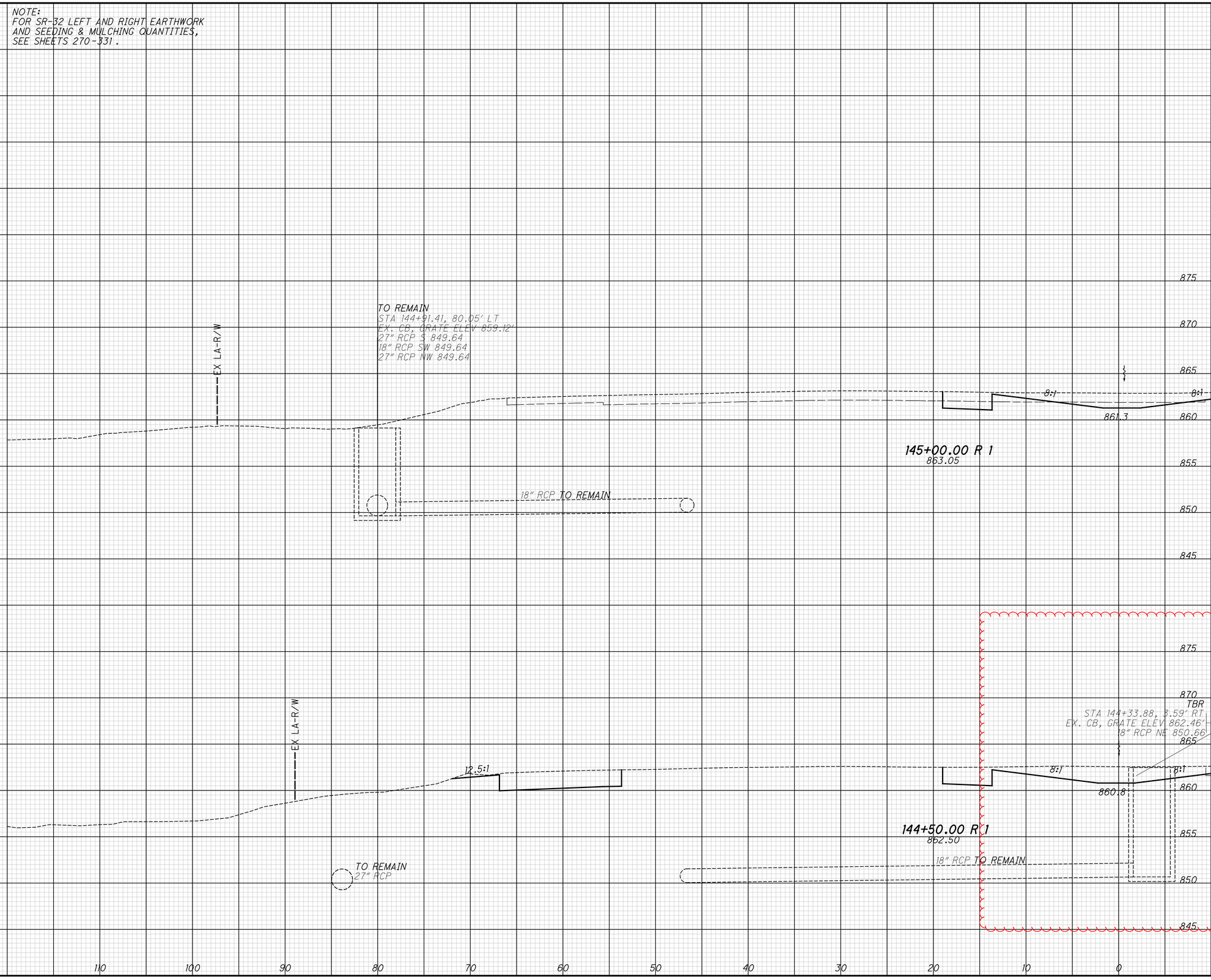
\303.205\103954_XS501L.dgn 11/19/2021 1:41:29 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA



CROSS SECTIONS - SR-32 LT
STA. 144+50.00 TO STA. 145+00.00

CLE-35-3.50
PHASE 5

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA

880 875 870 865 860 855 850

EX LA-R/W

8:1
863.9

147+50.00 R 1
865.74

8:1
863.4

147+00.00 R 1
865.19

8:1
862.9

146+50.00 R 1
864.67

120 110 100 90 80 70 60 50 40 30 20 10 0

CROSS SECTIONS - SR-32 LT
STA. 146+50.00 TO STA. 147+50.00

CLE-35-3.50
PHASE 5

218
736

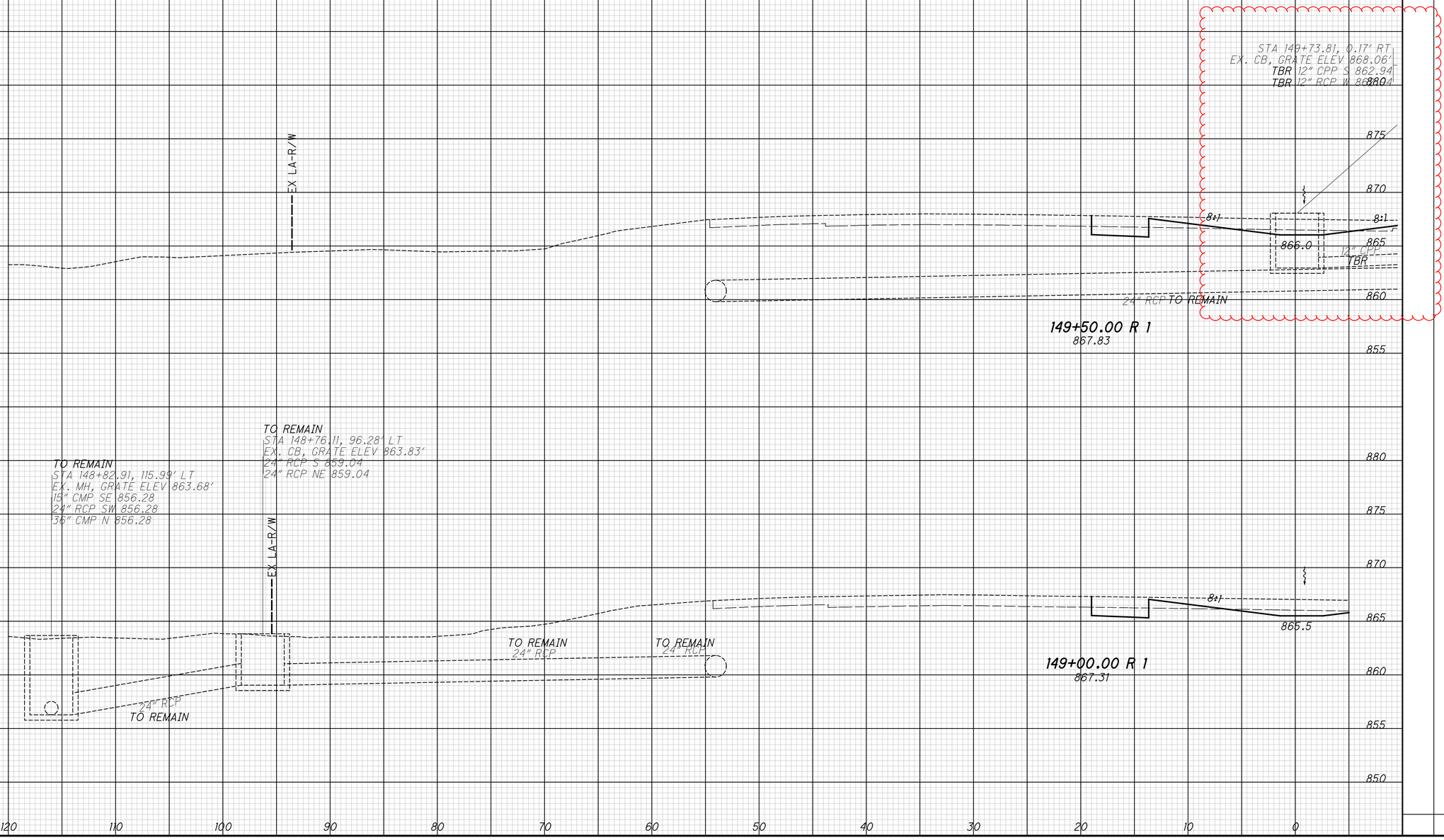
...\303.205\103954_XS50IL.dgn 11/19/2021 1:42:30 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA



CROSS SECTIONS - SR-32 LT
STA. 149+00.00 TO STA. 149+50.00

CLE-35-3.50
PHASE 5

220
736

...\303.205\103954_XS50IL.dgn 11/19/2021 1:43:20 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

EX LA-R/W

151+00.00 R 1
869.29

867.6
12" CPP

TO REMAIN
STA 150+48.80, 103.86' LT
EX. CB, GRATE ELEV 863.40'
15" CMP NW 856.93

150+50.00 R 1
868.83

867.2

TO REMAIN
15" CMP

150+00.00 R 1
868.43

866.6

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA. 150+00.00 TO STA. 151+00.00

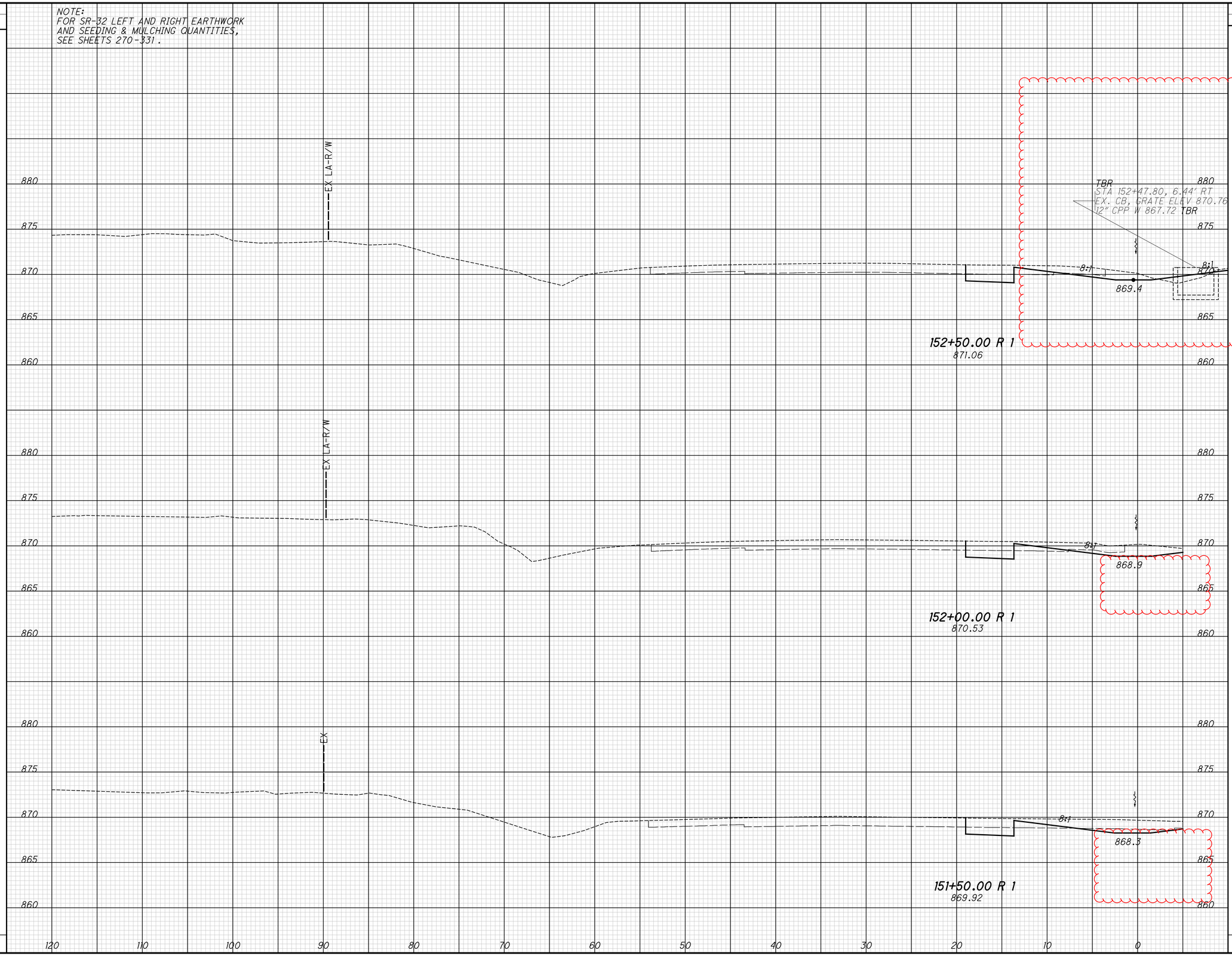
CLE-35-3.50
PHASE 5

221
736

...\303.205\103954_XS501L.dgn 11/19/2021 1:43:20 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA. 151+50.00 TO STA. 152+50.00

CLE-35-3.50
PHASE 5

222
736

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA

885
880
875
870
865

6:1

18" RCP
TO REMAIN

158+50.00 R 2
876.84

STA 158+13.91, 17.22' LT
CB-3, GRATE ELEV 878.36
15" (S) 875.11

STA 158+14.44, 72.51' LT
HW-2.1 OR 2.2
15" INV = 874.29

25'-15" TYPE C @ 3.28%

157+50.00 BK =
158+00.00 AH
876.35

EX LA-R/W

157+00.00 R 1
875.87

120 110 100 90 80 70 60 50 40 30 20 10 0

CROSS SECTIONS - SR-32 LT
STA. 157+00.00 TO STA. 158+50.00

CLE-35-3.50
PHASE 5

224
736

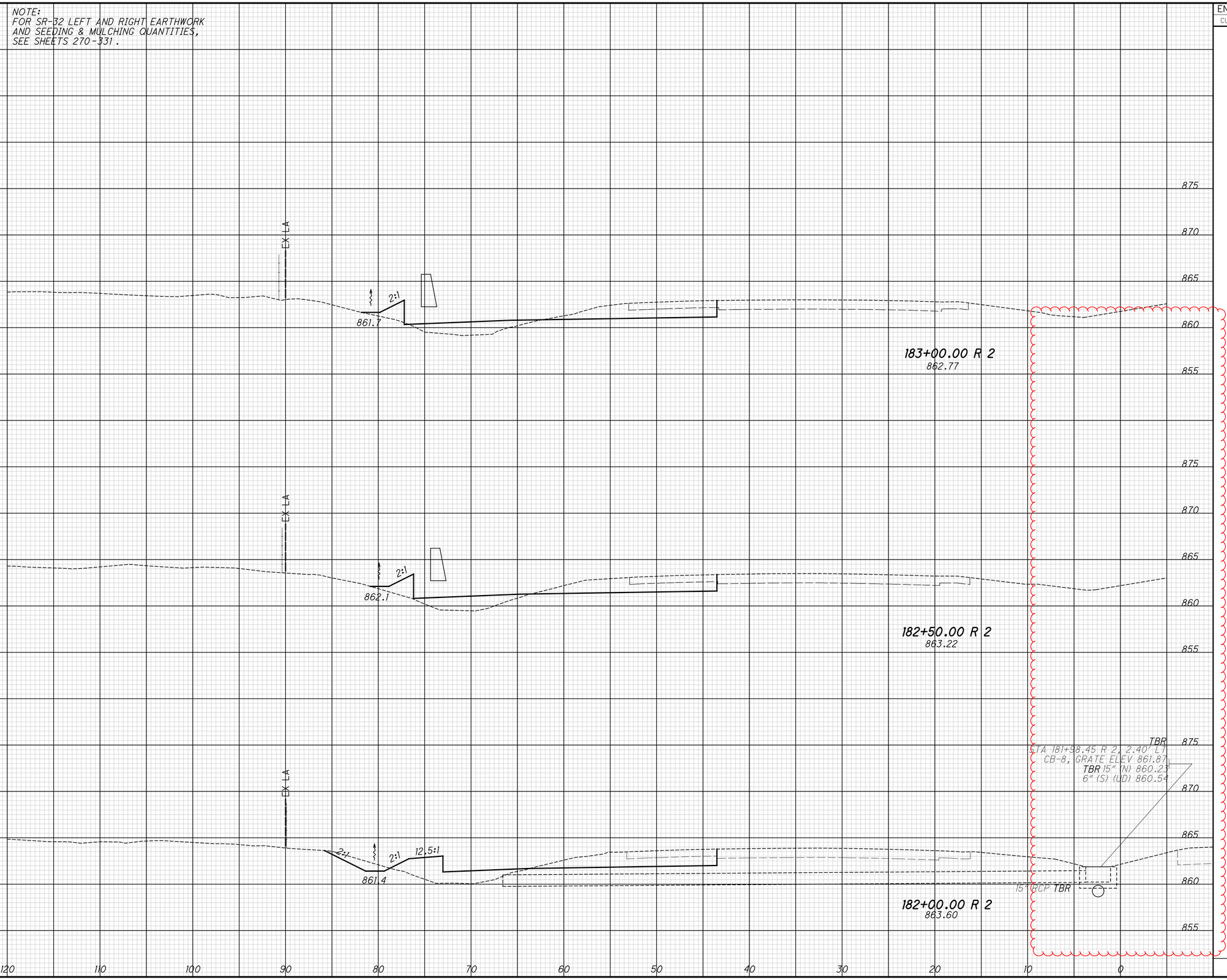
...\303.205\103954_XS501L.dgn 11/19/2021 1:44:06 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA



CROSS SECTIONS - SR-32 LT
STA. 182+00.00 TO STA. 183+00.00

CLE-35-3.50
PHASE 5

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

EX LA

2:1 2:1
861.5

184+50.00 R 2
861.40

24" TYPE B

STA 184+00.00 R 2, 74.45' LT
I-3-D, GRATE ELEV 861.23
24" (S) 856.48
18" (W) 857.16
6" (W) (UD) 856.98

2:1
861.7

80'-24" TYPE B @ 0.67%
(JACK AND BORE)
CFN 1977299

184+00.00 R 2
861.91

STA 184+00.00 R 2, 5.00' RT
MH-3, RIM ELEV 862.10
24" (N) 855.94
15" (S) 856.77
24" (E) 855.94

STA 183+50.00 R 2, 81.34' LT
CB-8A, GRATE ELEV 861.50
18" (SE) 858.00
6" (W) (UD) 858.50

2:1
861.5

183+50.00 R 2
862.77

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA. 183+50.00 TO STA. 184+50.00

CLE-35-3.50
PHASE 5

235
736

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA

SEE RAMP N SECTIONS

12.5:1 12.5:1
856.7

8:1 8:1
856.5

EX. 6" WATER LINE

36" TYPE B

189+00.00 R 2
857.63

189+00.00 R 2
857.61

SEE RAMP N SECTIONS

12.5:1 12.5:1
857.2

8:1 8:1
856.9

188+50.00 R 2
858.05

188+50.00 R 2
857.93

36" TYPE B

EX LA

STA 188+00.00 R 2, 90.43' LT
1-3-D, GRATE ELEV 857.37
24" (S) 850.31
24" (E) 850.31
6" (W) (UD) 850.81

858.2

6" RCP
TBR

96'-24" TYPE B @ 1.70%
CFN 1977640

TBR
STA 187+99.14 R 2, 11.33' LT
CB-8, GRATE ELEV 857.33
15" (N) 854.60
6" (S1)(UD) 855.10

4:1 856.4 4:1

STA 188+00.00 R 2, 5.08' RT
MH-3, RIM ELEV 858.58
24" (W) 851.63
36" (E) 847.85
24" (S) 848.85
24" (N) 848.63
6" (W) (UD) 855.00

188+00.00 R 2
858.39

188+00.00 R 2
858.40

110 100 90 80 70 60 50 40 30 20 10 0 10

CROSS SECTIONS - SR-32 LT
STA. 188+00.00 TO STA. 189+00.00

CLE-35-3.50
PHASE 5

238
736

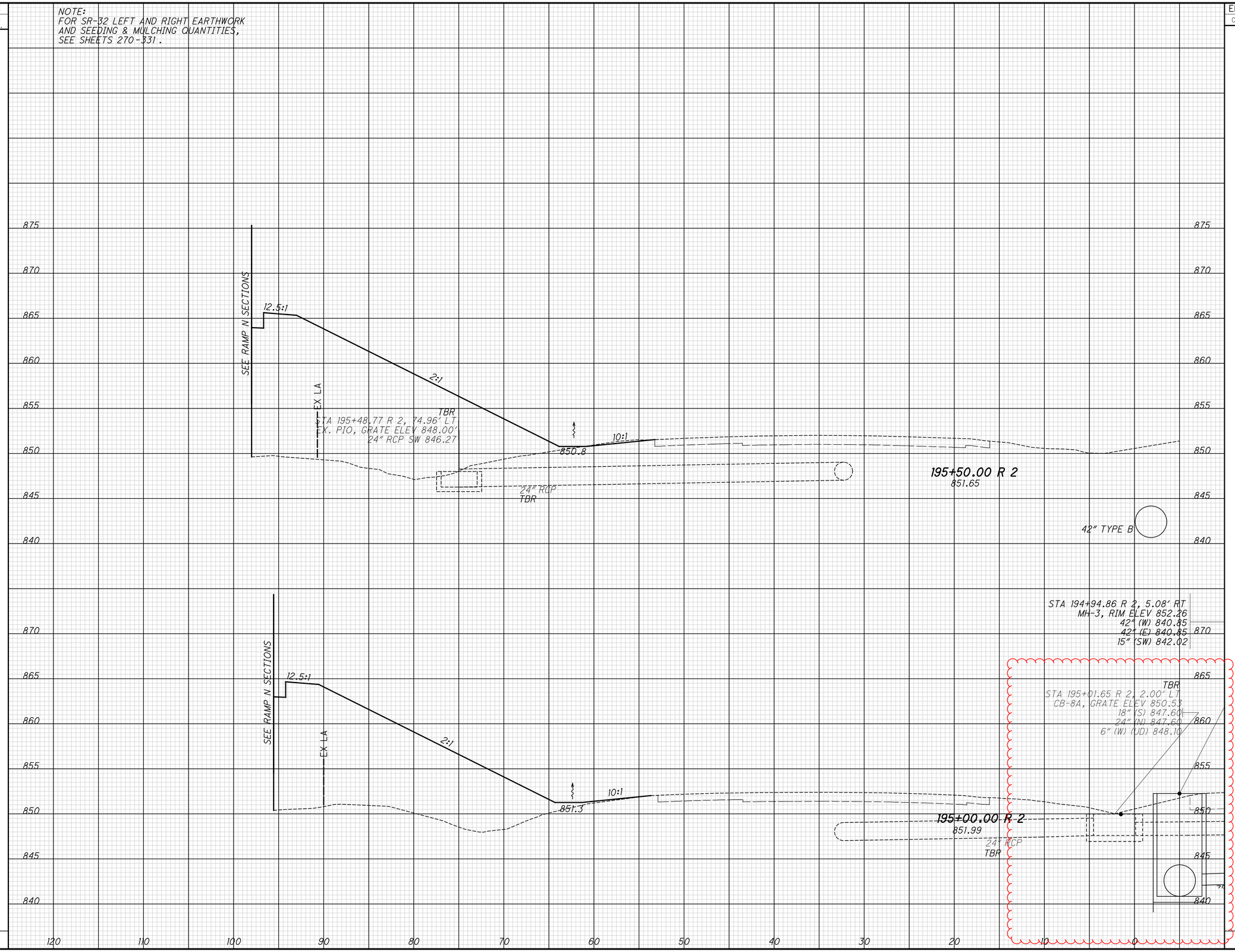
\303.205\103954_XS501L.dgn 11/19/2021 1:45:47 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA



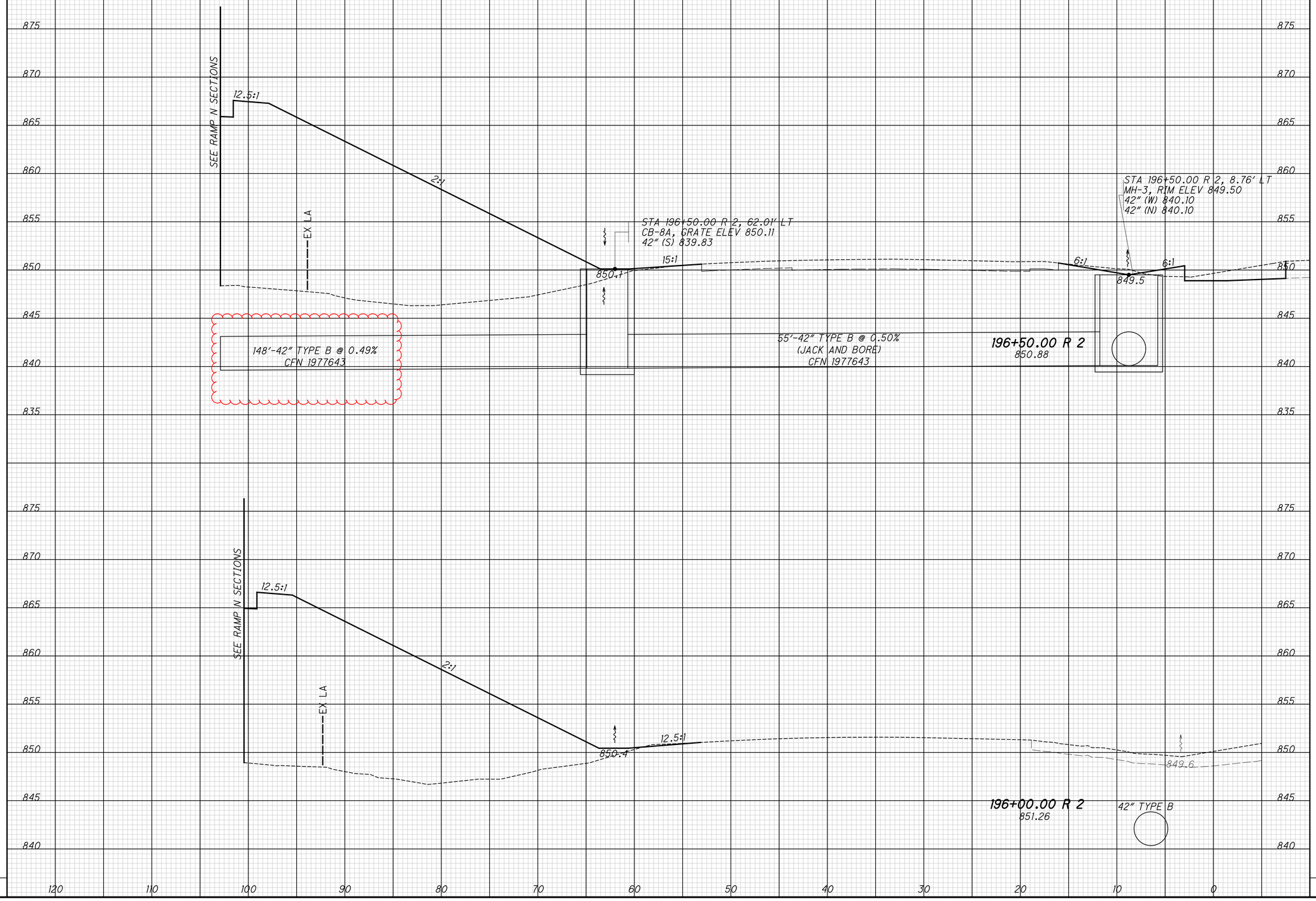
CROSS SECTIONS - SR-32 LT
STA. 195+00.00 TO STA. 195+50.00

CLE-35-3.50
PHASE 5

244
736

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MSW	WAA

CROSS SECTIONS - SR-32 LT
STA. 196+00.00 TO STA. 196+50.00

CLE-35-3.50
PHASE 5

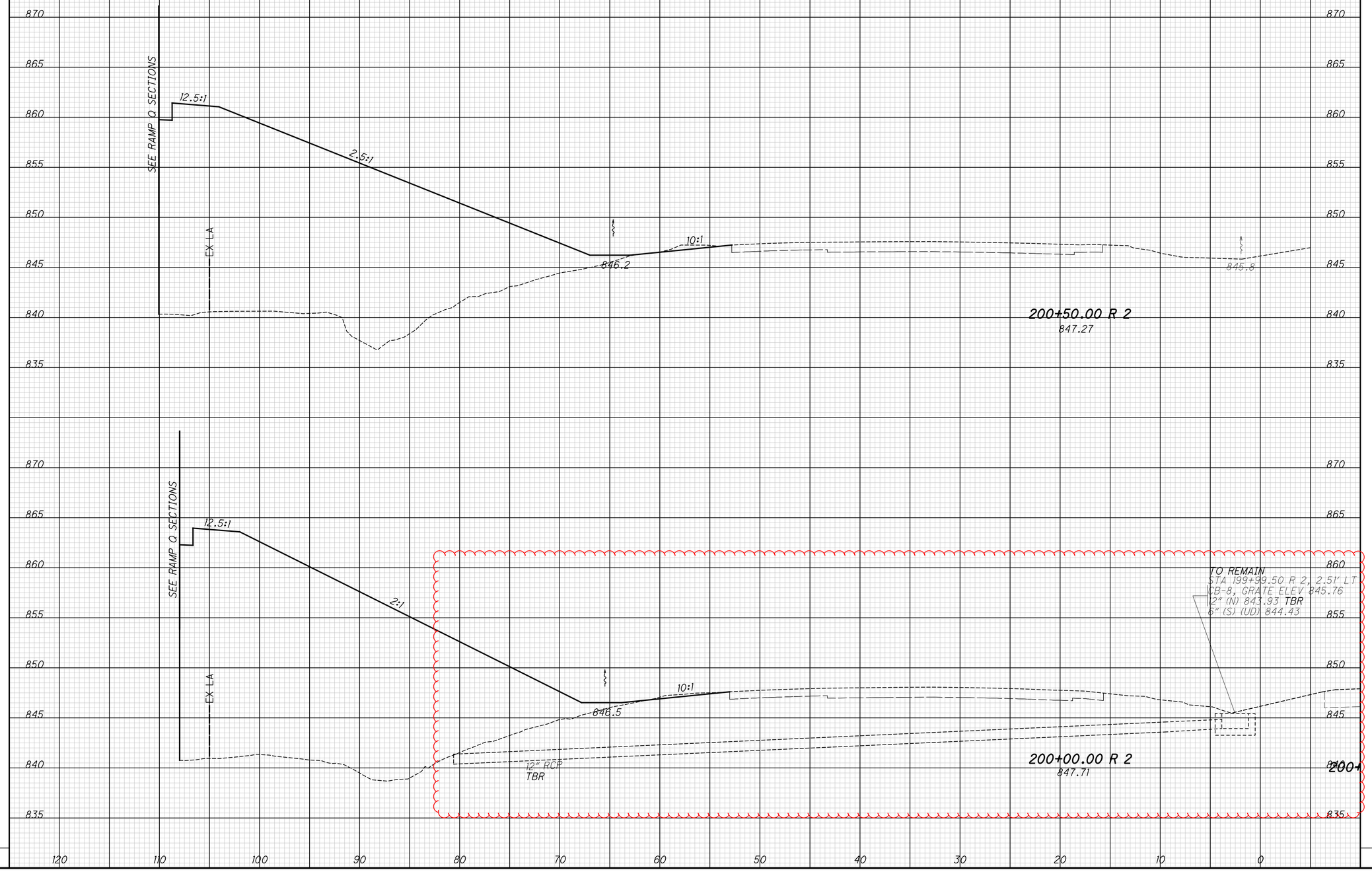
245
736

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA



CROSS SECTIONS - SR-32 LT
STA. 200+00.00 TO STA. 200+50.00

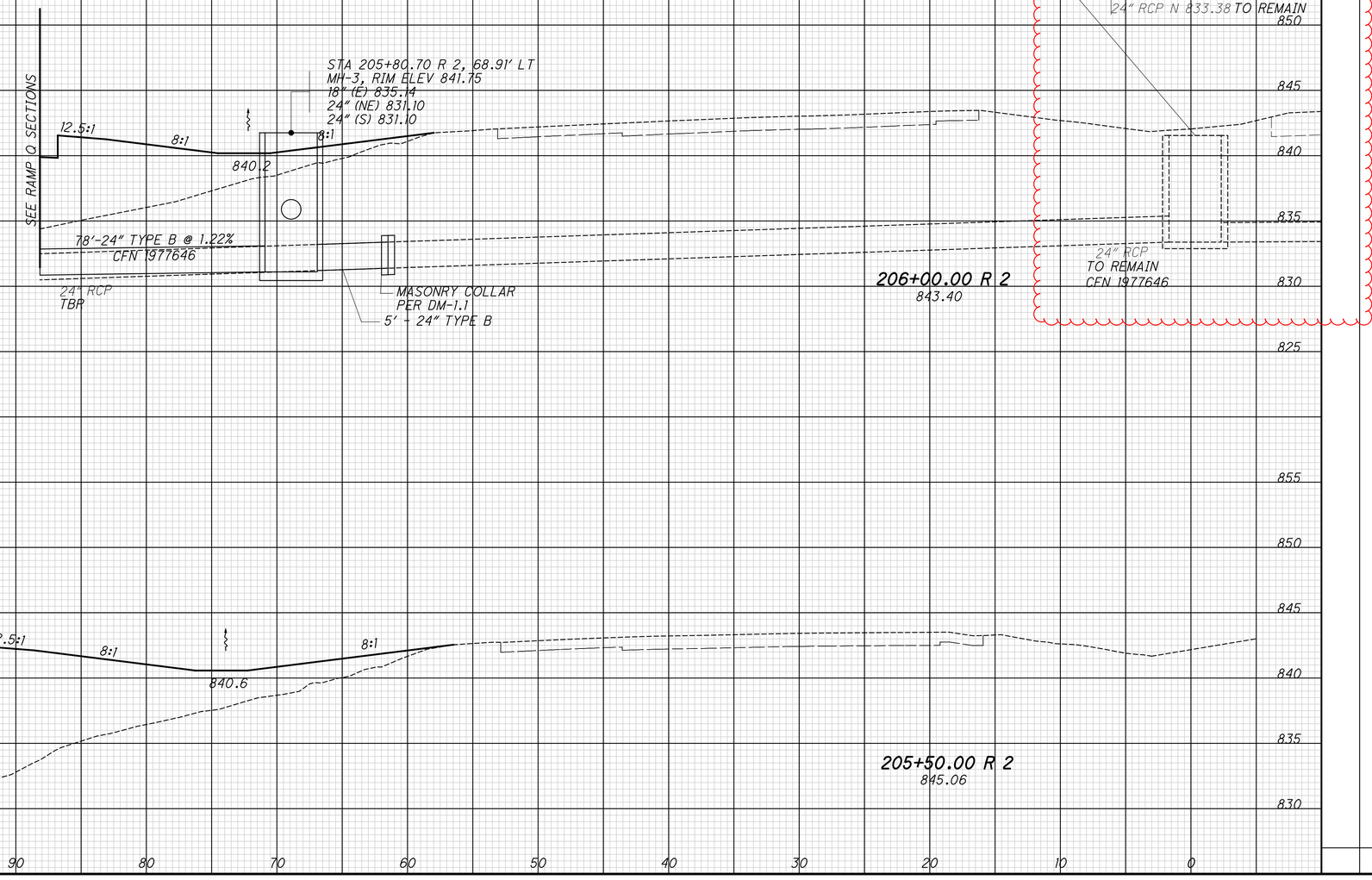
CLE-35-3.50
PHASE 5

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA



CROSS SECTIONS - SR-32 LT
STA. 205+50.00 TO STA. 206+00.00

CLE-35-3.50
PHASE 5

SEEDING	
END WIDTH	SQ. YDS.

NOTE:
FOR SR-32 LEFT AND RIGHT EARTHWORK AND SEEDING & MULCHING QUANTITIES, SEE SHEETS 270-331.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MSW
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA. 213+50.00 TO STA. 214+50.00

CLE-35-3.50
PHASE 5

262
736

SEEDING	
END WIDTH	SQ. YDS.
70	734
66	378
62	356

END AREA		VOLUME	
CUT	FILL	CUT	FILL
10	1432	18	2480
9	1246	15	2171
8	1098	33	4651

CALCULATED MSW
CHECKED WAA

CROSS SECTIONS - RAMP N
STA. 196+50.00 TO STA. 197+00.00

CLE-32-3.50 (PHASE 5)

338
736

STA 197+00.00 R 2, 88.23' LT
CB-8A, GRATE ELEV 845.05
42" (S) 839.05
48" (E) 839.05

158' - 42" TYPE B @ 0.49%
CFN 1977643

868.51
197+00.00
847.23

867.54
196+50.00
848.12

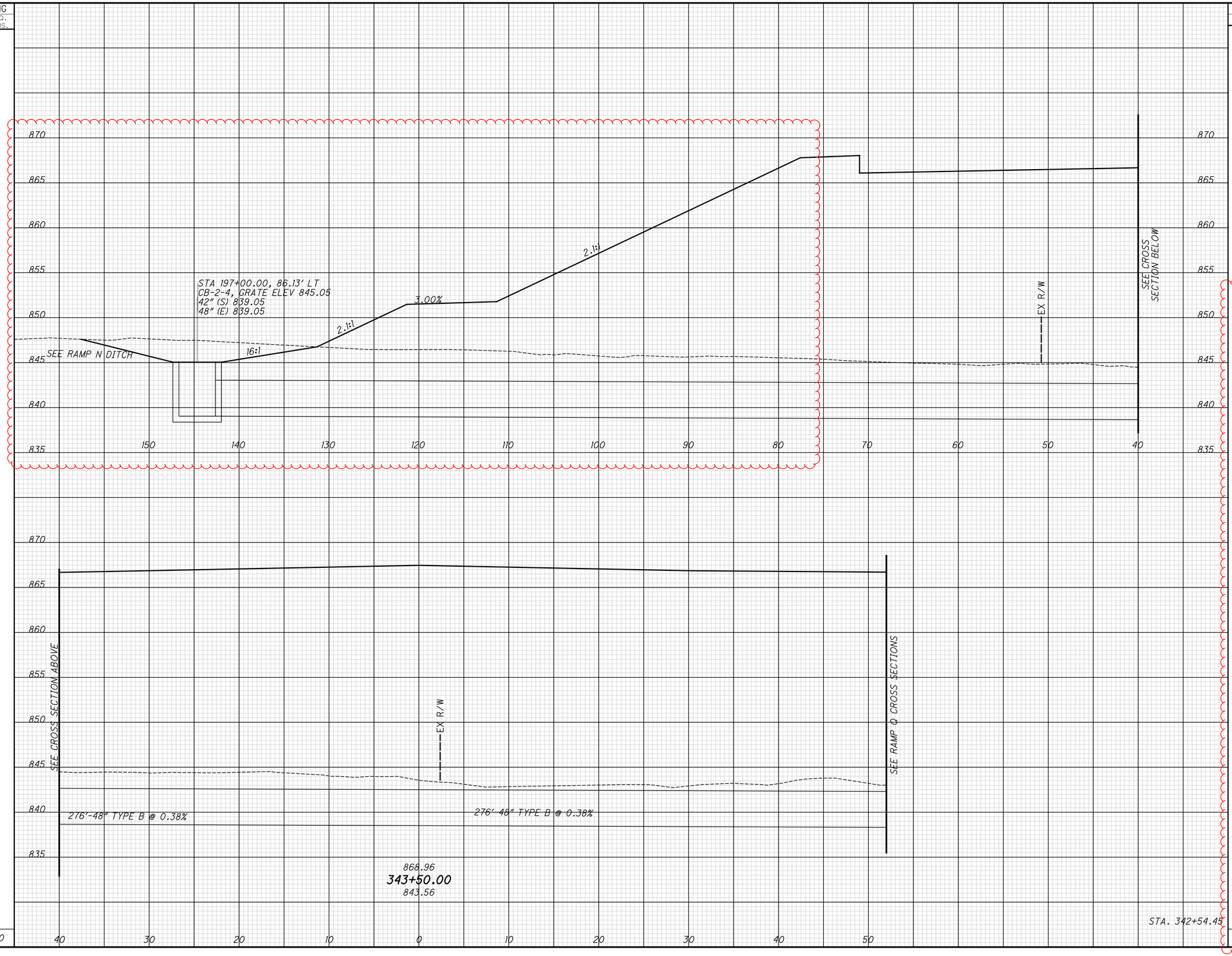
SEE SR-32 SECTIONS

STA. 196+00.00

875 870 865 860 855 850 845

90 80 70 60 50 40 30 20 10 0 10 20 30

SEEDING	
END WIDTH	SQ. YDS.
93	0



END AREA		VOLUME	
CUT	FILL	CUT	FILL
38	3519		
		67	12076
STA. 342+54.45	0	3305	
		67	12076

CALCULATED	CHECKED
GAH	WAA

CROSS SECTIONS BACH BUXTON RD STA. 343+50.00

CLE-32-3.50
(PHASE 5)

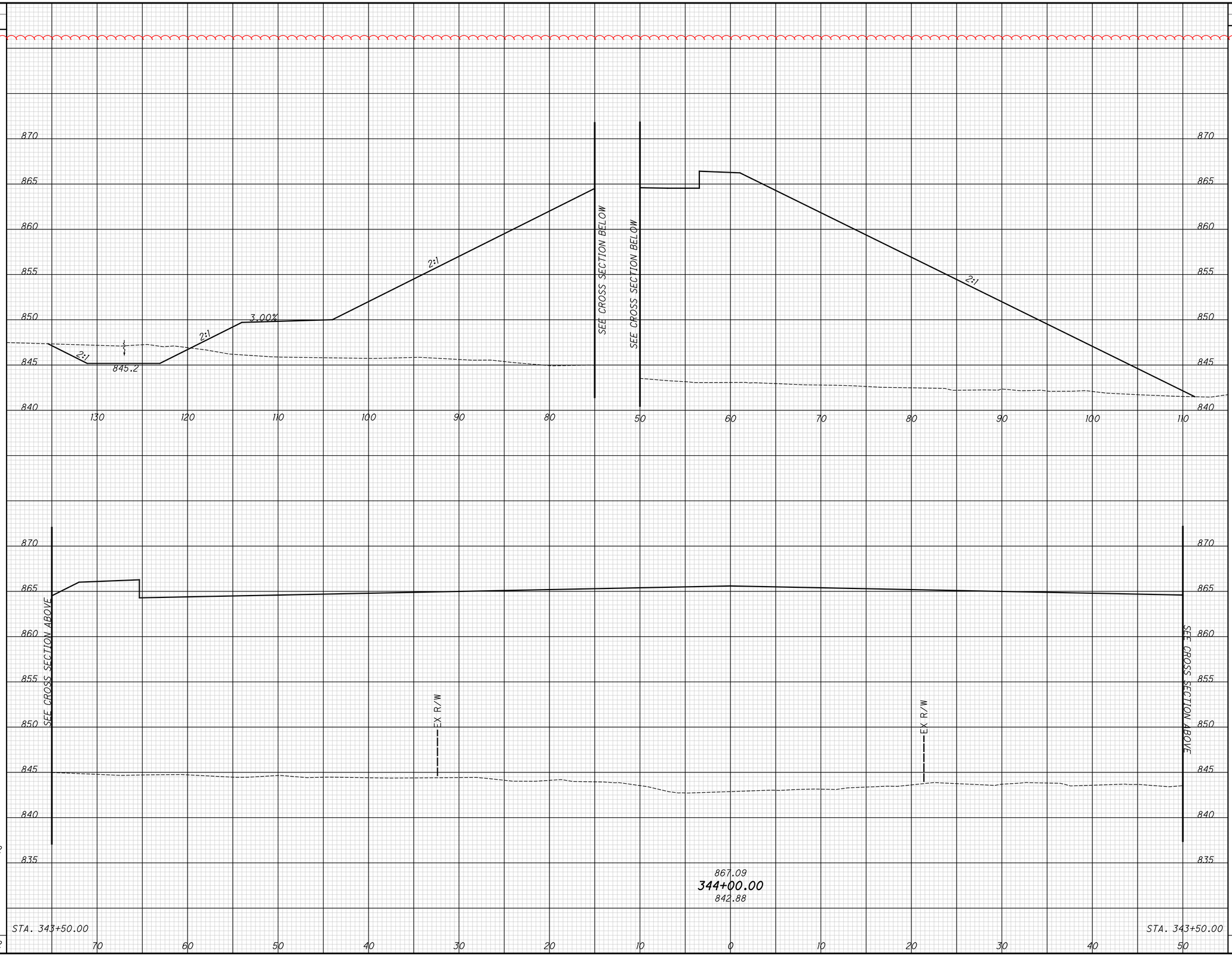
381
736

SEEDING	
END WIDTH	SQ. YDS.
139	642
93	642

END AREA	
CUT	FILL
24	3859
38	3519

VOLUME	
CUT	FILL
57	6832
57	6832

CALCULATED GAH
CHECKED WAA



CROSS SECTIONS - BACH BUXTON RD
STA. 344+00.00

CLE-32-3.50
(PHASE 5)

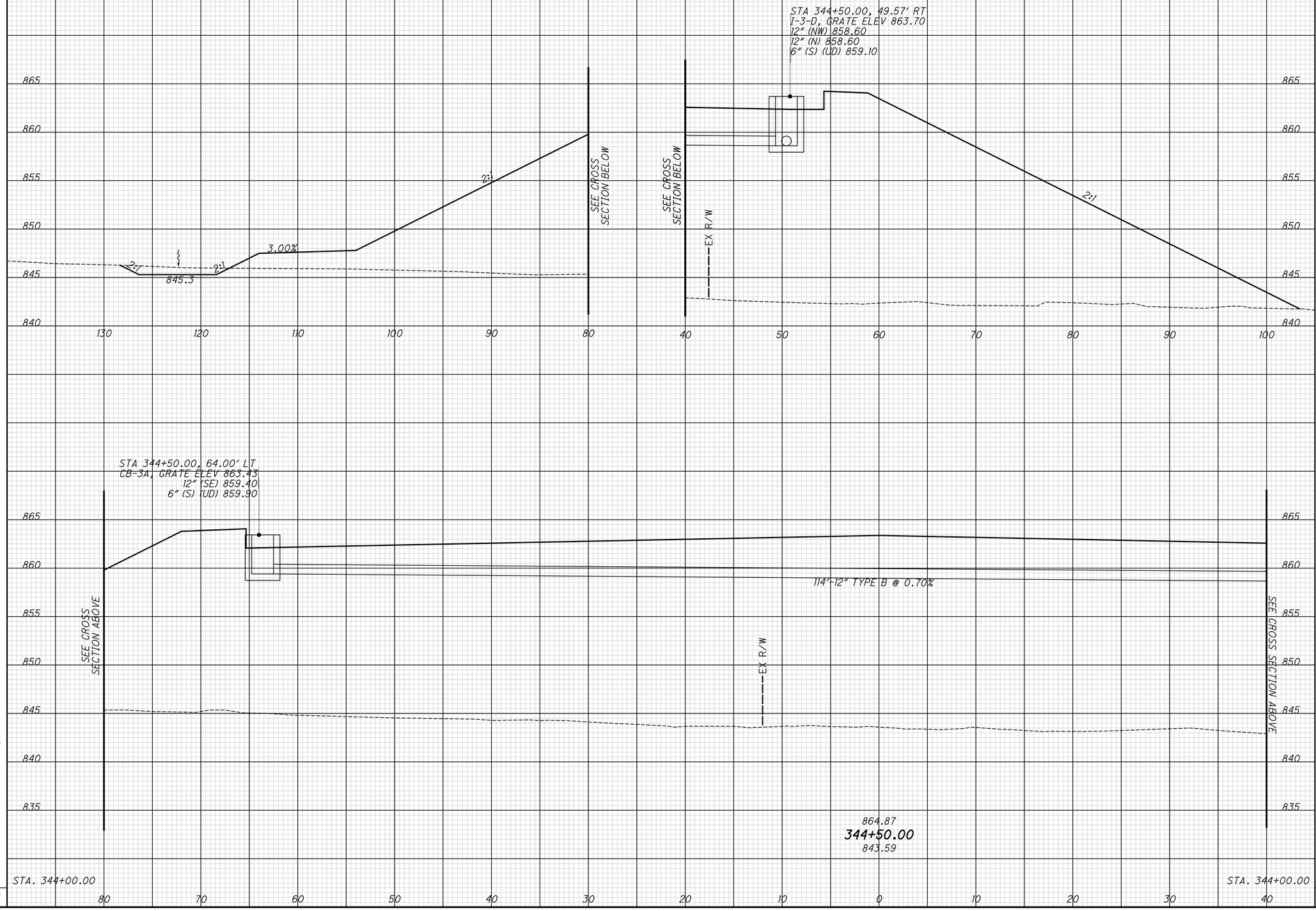
382
736

..\303.205\103954_XS512.dgn 11/19/2021 1:53:35 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.
125	
	731
139	
	731

END AREA		VOLUME	
CUT	FILL	CUT	FILL
7	3338		
24	3859		
		29	6664
		29	6664

CALCULATED GAH
CHECKED WAA

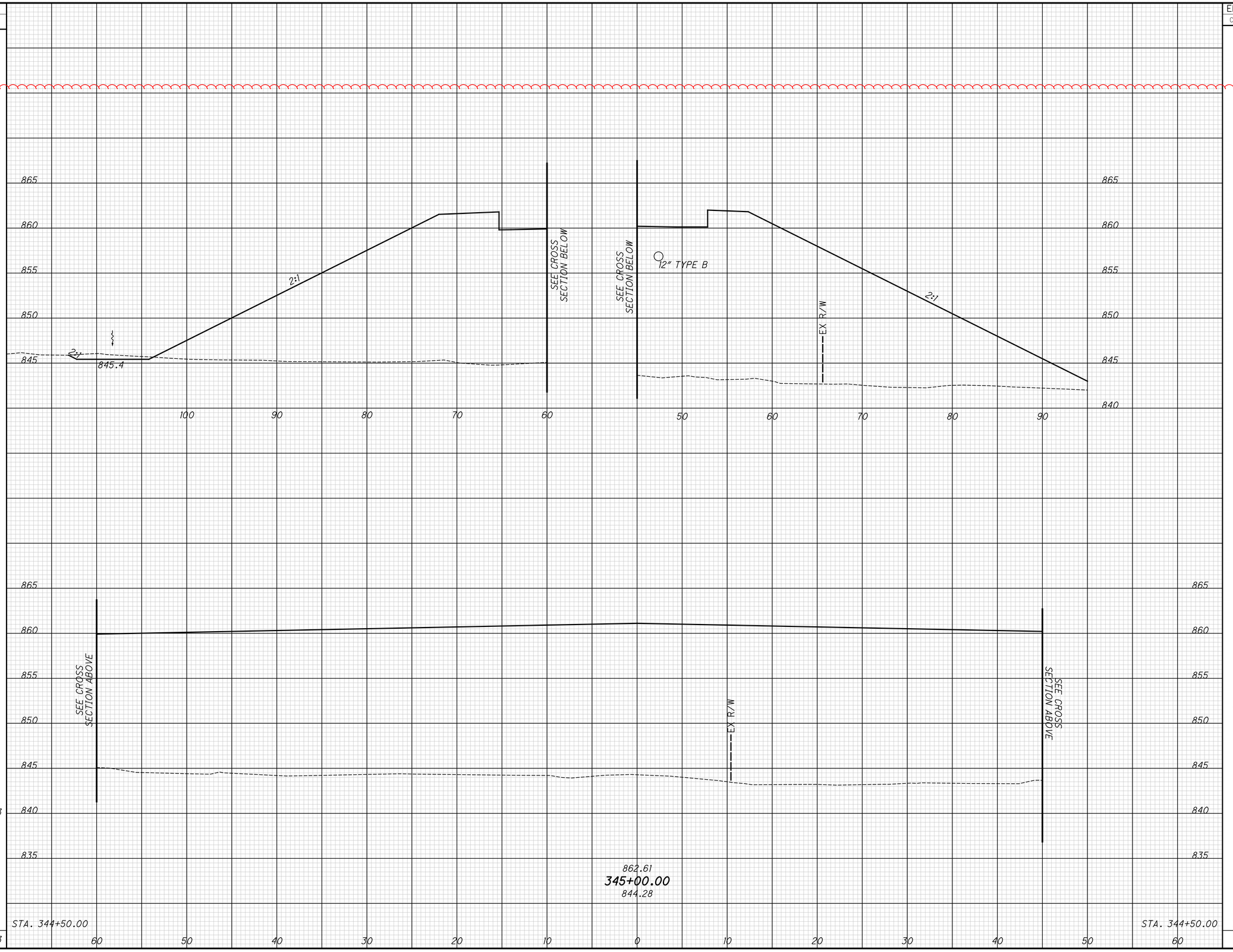


CROSS SECTIONS - BACH BUXTON RD
STA. 344+50.00

CLE-32-3.50
(PHASE 5)

383
736

SEEDING	
END WIDTH	SQ. YDS.
103	633
125	633



END AREA		VOLUME	
CUT	FILL	CUT	FILL
4	2789		
		11	5673
7	3322		
		11	5673

CALCULATED GAH
CHECKED WAA

CROSS SECTIONS - BACH BUXTON RD
STA. 345+00.00

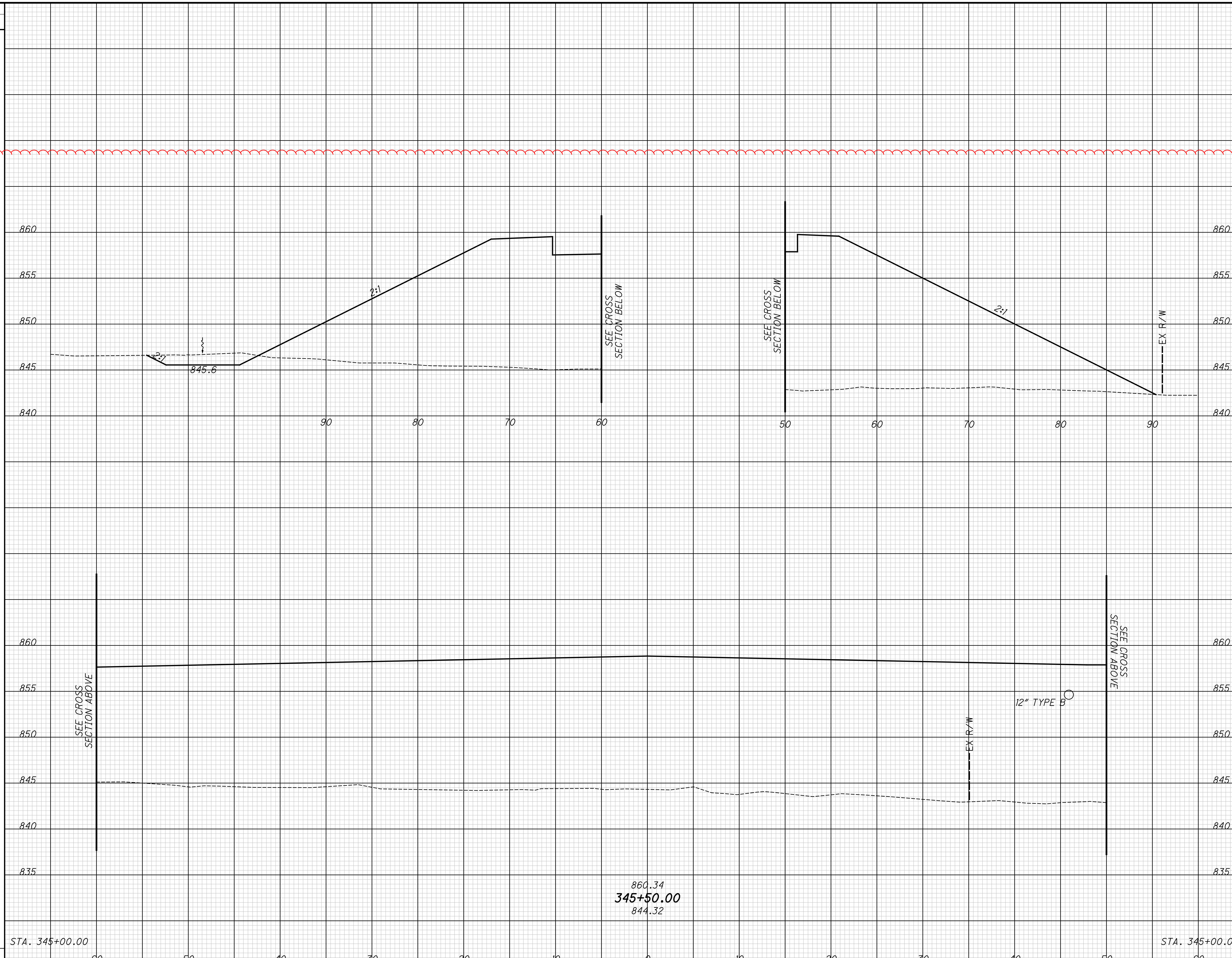
CLE-32-3.50
(PHASE 5)

384
136

\303.205\103954_XS12.dgn 11/19/2021 1:53:35 PM mswhitt

CROSS SECTIONS - BACH BUXTON RD
STA. 345+50.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		12	2281		
93				15	4695
	547				
103		4	2789		
	547			15	4695



CALCULATED GAH
CHECKED WAA

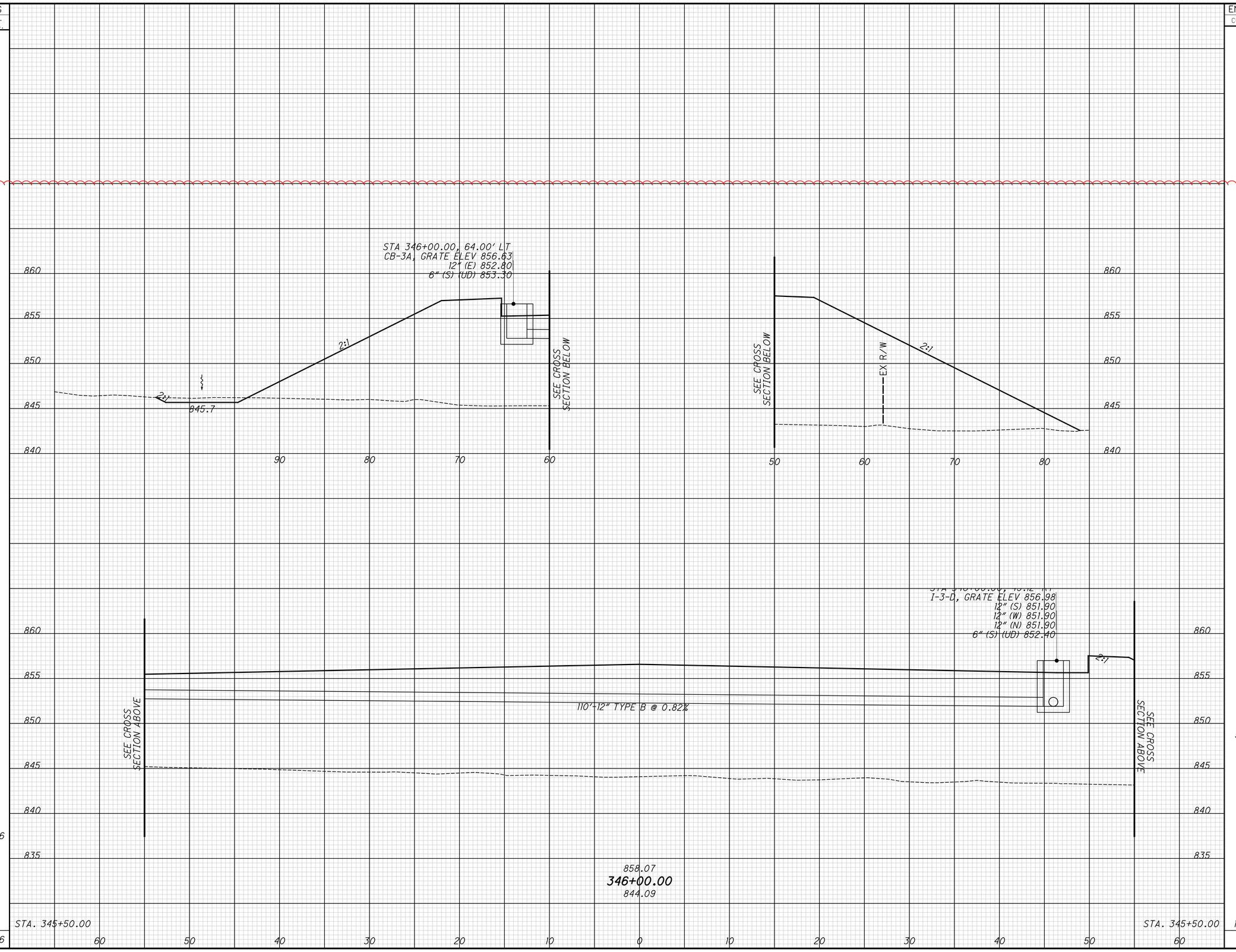
CLE-32-3.50 (PHASE 5)

11/19/2021 1:53:35 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.
81	486
93	486

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		5	1825
		15	3802
		12	2281
		15	3802

CALCULATED GAH
CHECKED WAA

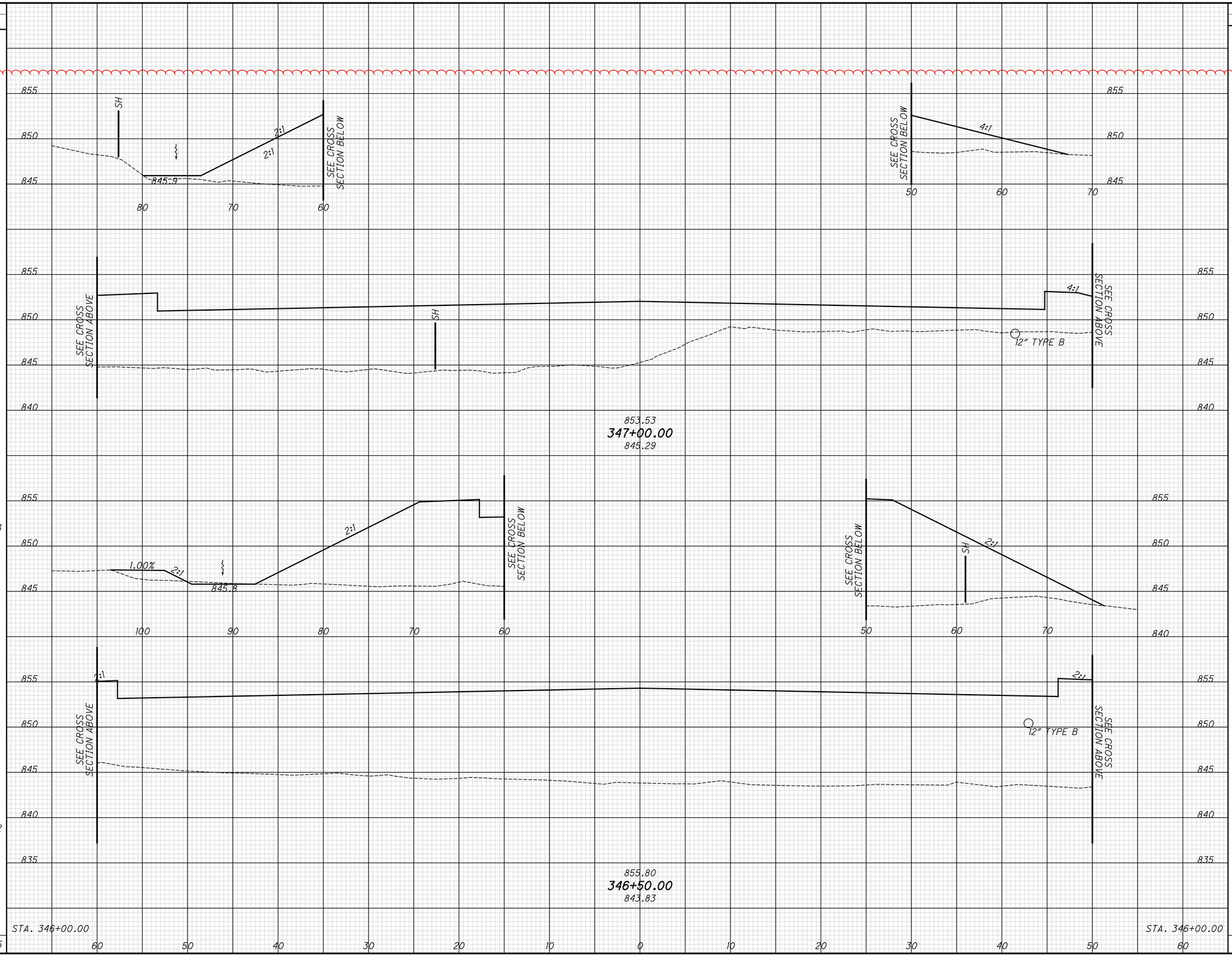


CROSS SECTIONS - BACH BUXTON RD
STA. 346+00.00

CLE-32-3.50
(PHASE 5)

386
736

SEEDING	
END WIDTH	SQ. YDS.
53	
78	363
81	442
	805



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	683		
1	1357		
5	1825		
		1	1888
		5	2946
		6	4834

CALCULATED GAH
CHECKED WAA

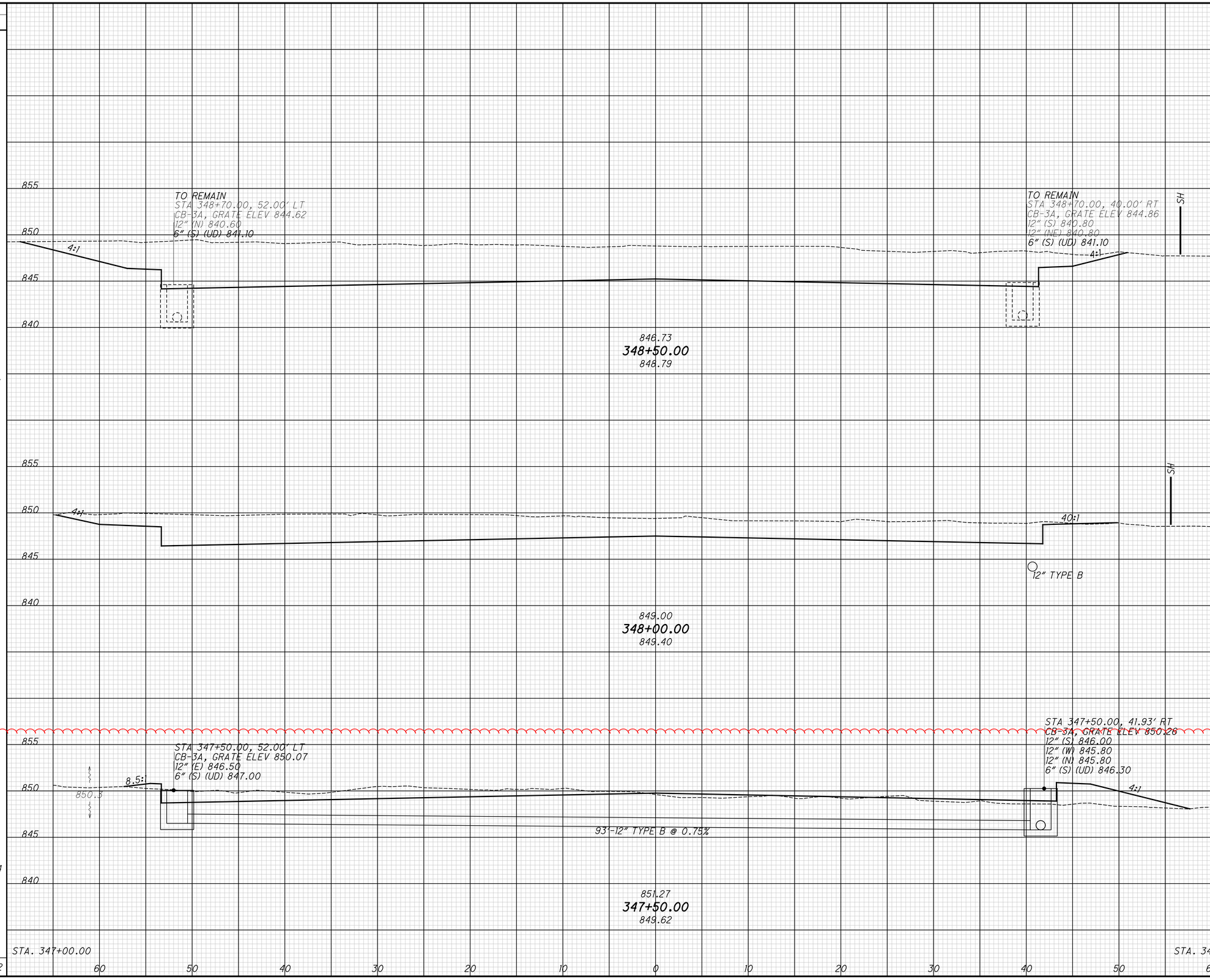
CROSS SECTIONS - BACH BUXTON RD
STA. 346+50.00 TO STA. 347+00.00

CLE 32-3.50
(PHASE 5)

387
736

\303205\103954_XS512.dgn 11/19/2021 1:53:36 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.
27	133
20	115
20	204
53	452



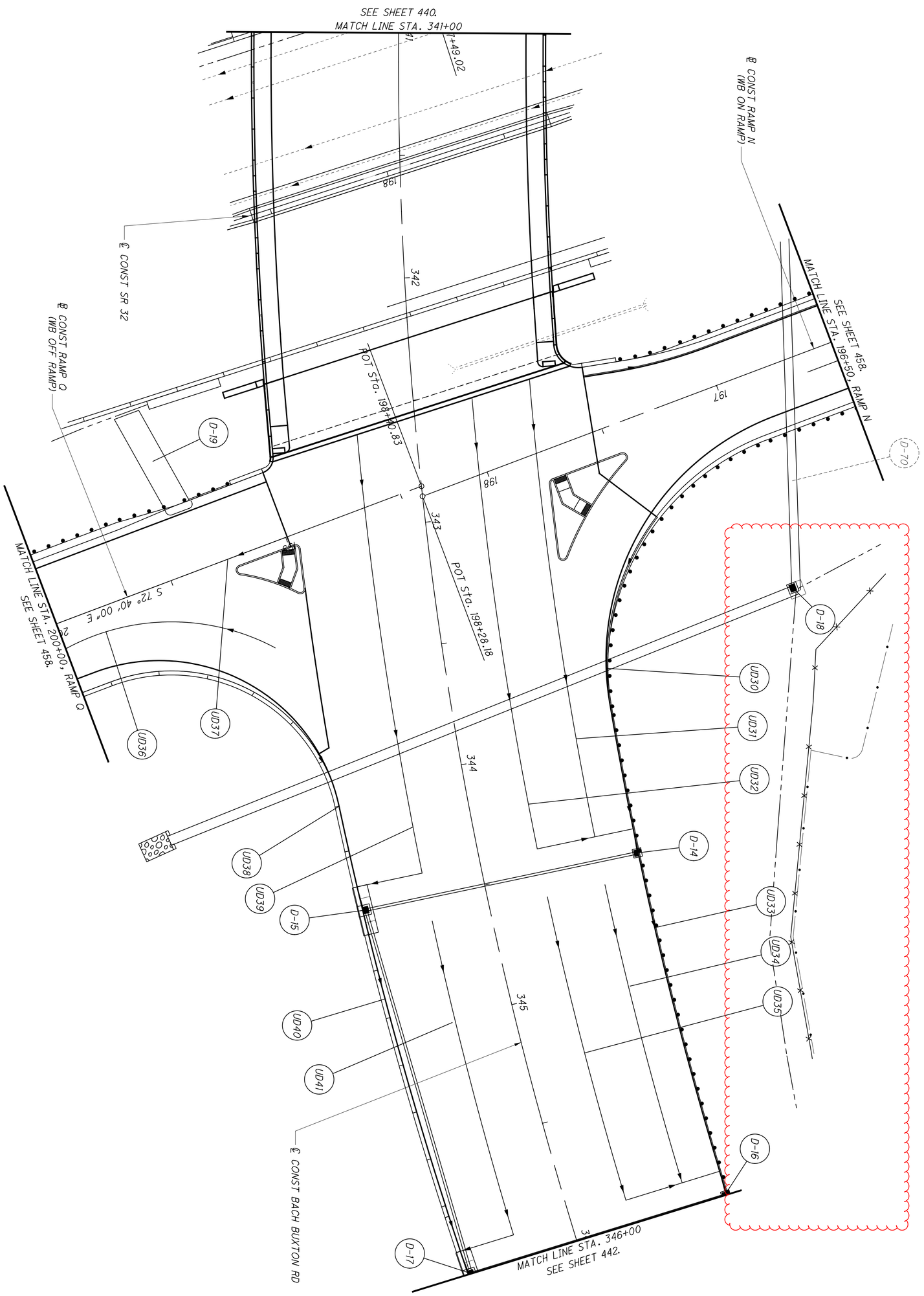
END AREA		VOLUME	
CUT	FILL	CUT	FILL
417	0		
		614	0
245	0		
		270	29
46	31		
		43	661
0	683		
		927	670

CALCULATED GAH
CHECKED WAA

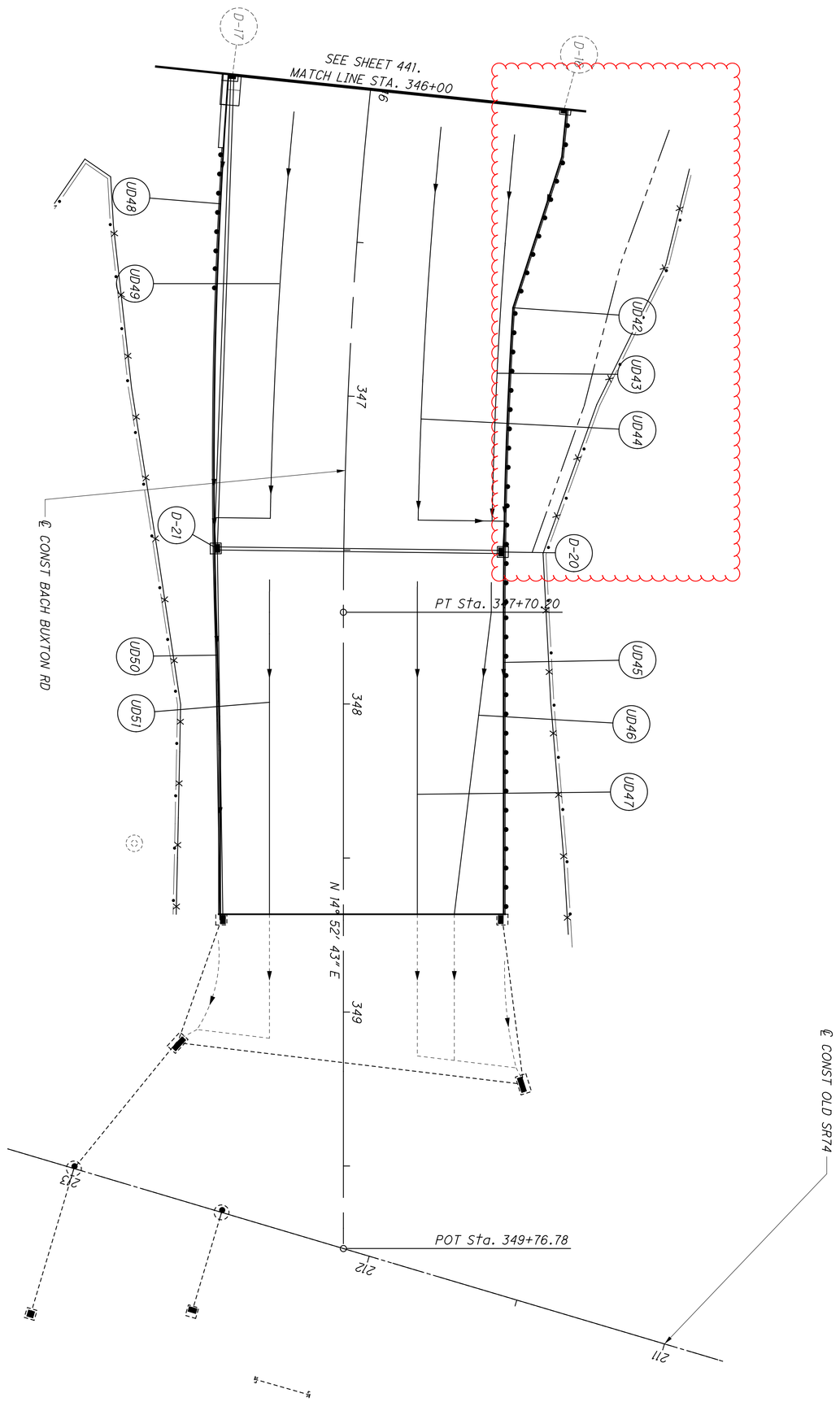
CROSS SECTIONS - BACH BUXTON RD
STA. 347+50.00 TO STA. 348+50.00

CLE-32.3.50 (PHASE 5)

388
736



441 / 736	**CLE-32-3.50 (PHASE 5)**	**DRAINAGE & UNDERDRAIN PLAN BACH BUXTON RD STA. 341+00 TO STA. 346+00**	CALCULATED MHT / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET

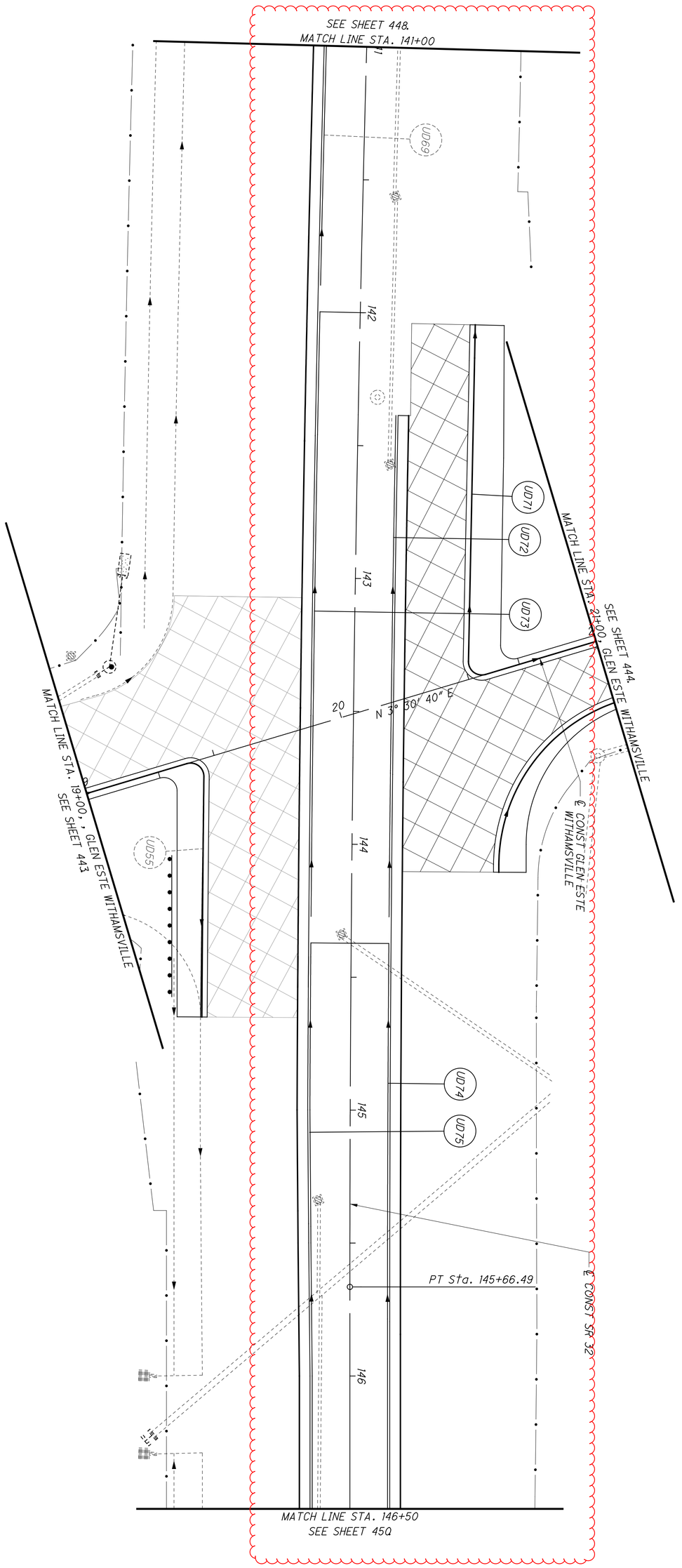


CLE-32-3.50 (PHASE 5)

DRAINAGE & UNDERDRAIN PLAN
BACH BUXTON RD STA. 346+00 TO END WORK

CALCULATED MHT
CHECKED WAA

0 20
10 40
HORIZONTAL SCALE IN FEET



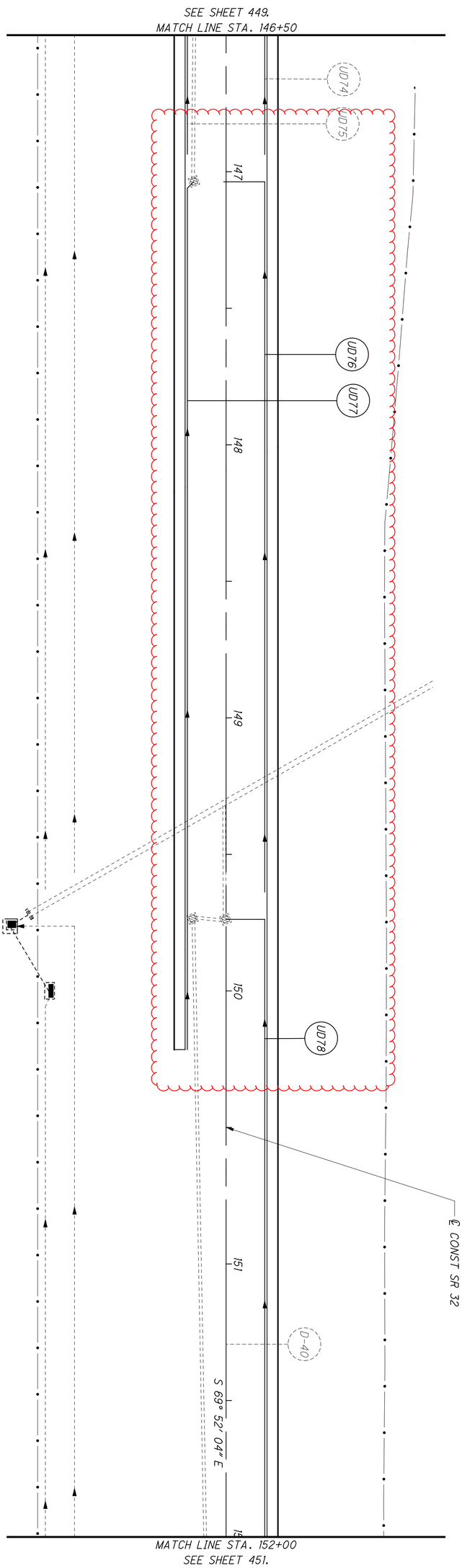
449
736

CLE-32-3.50
(PHASE 5)

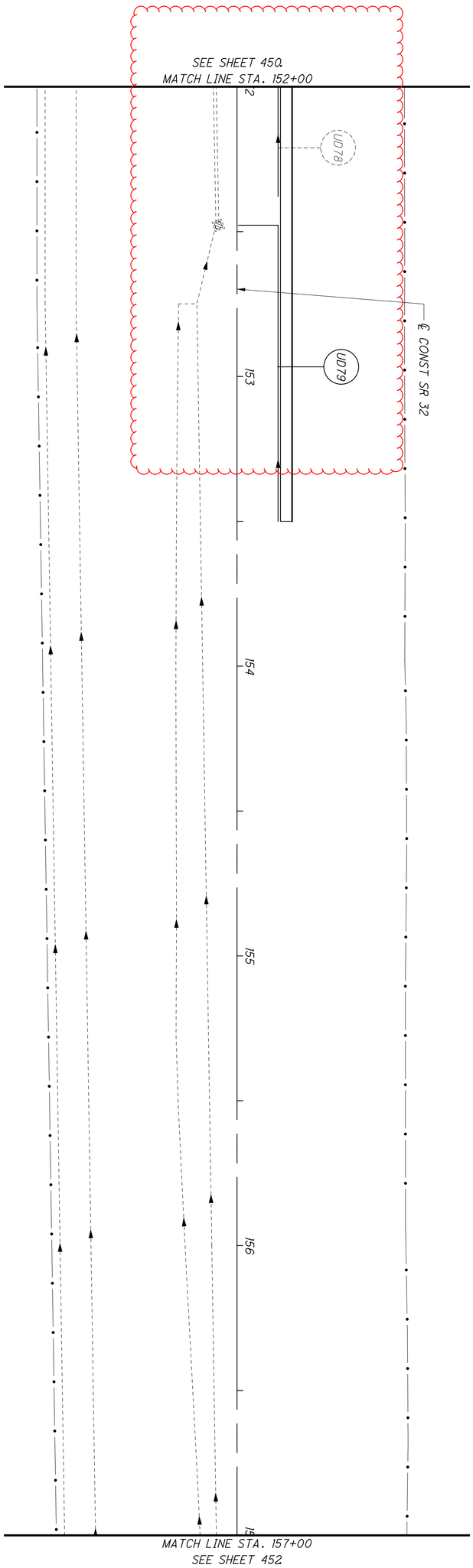
DRAINAGE & UNDERDRAIN PLAN - SR 32
STA. 141+00 TO STA. 146+50

CALCULATED MHT
CHECKED WAA

0 10 20 40
HORIZONTAL SCALE IN FEET



450 / 736	CLE-32-3.50 (PHASE 5)	DRAINAGE & UNDERDRAIN PLAN - SR 32 STA. 146+50 TO STA. 152+00	CALCULATED MHT / CHECKED WAA	0 20 / 10 40 HORIZONTAL SCALE IN FEET

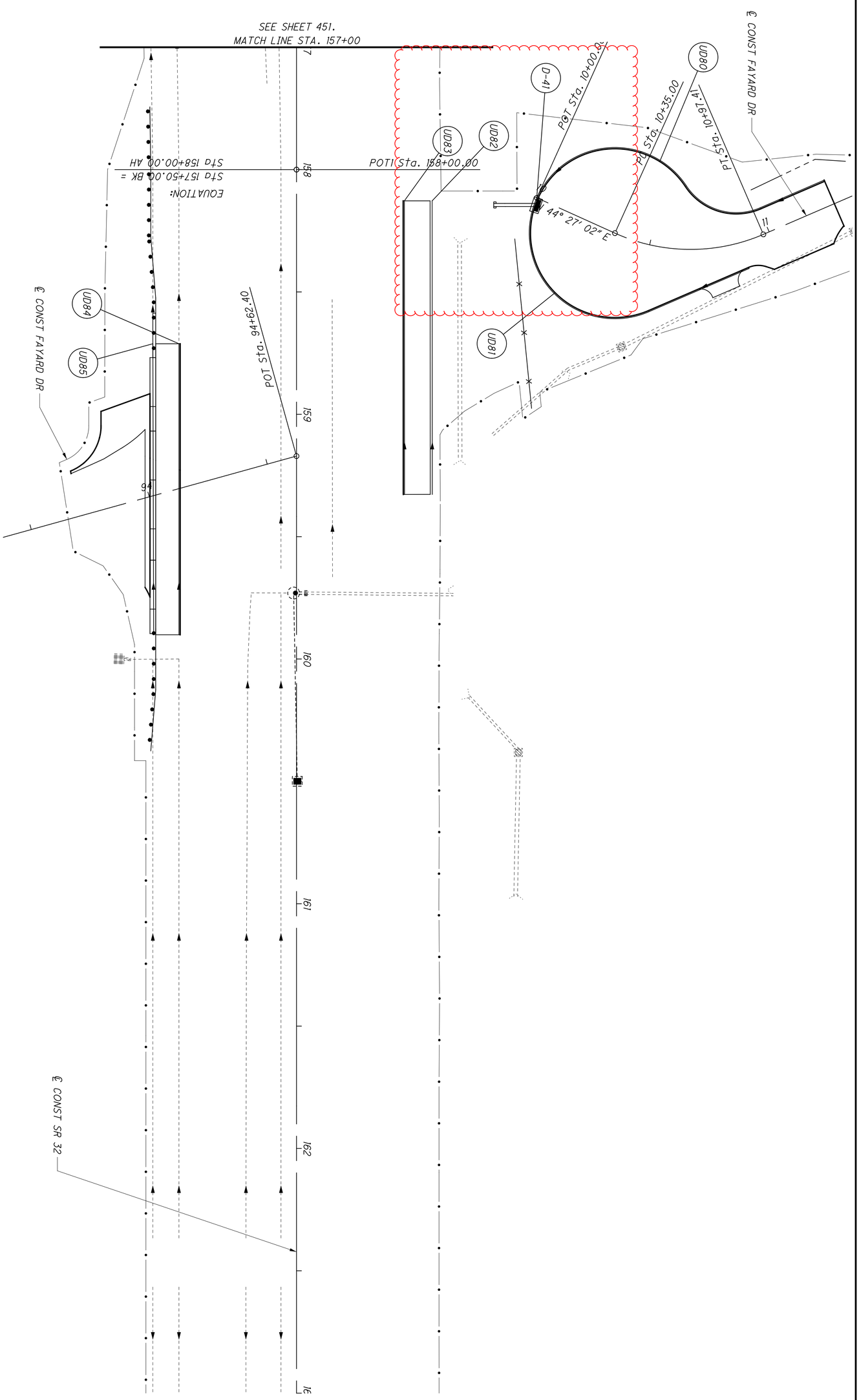


CLE-32-3.50
(PHASE 5)

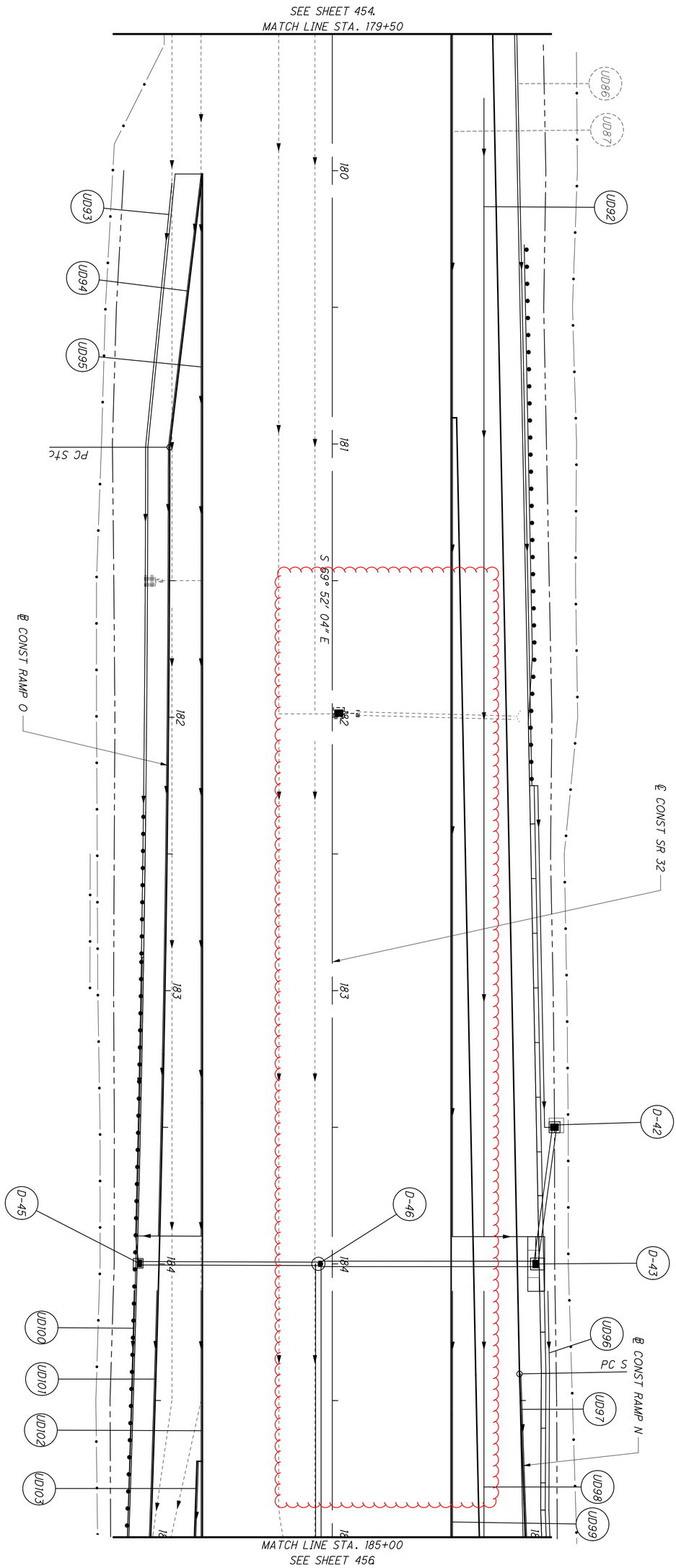
DRAINAGE & UNDERDRAIN PLAN - SR 32
STA. 152+00 TO STA. 157+00

CALCULATED MHT
CHECKED WAA

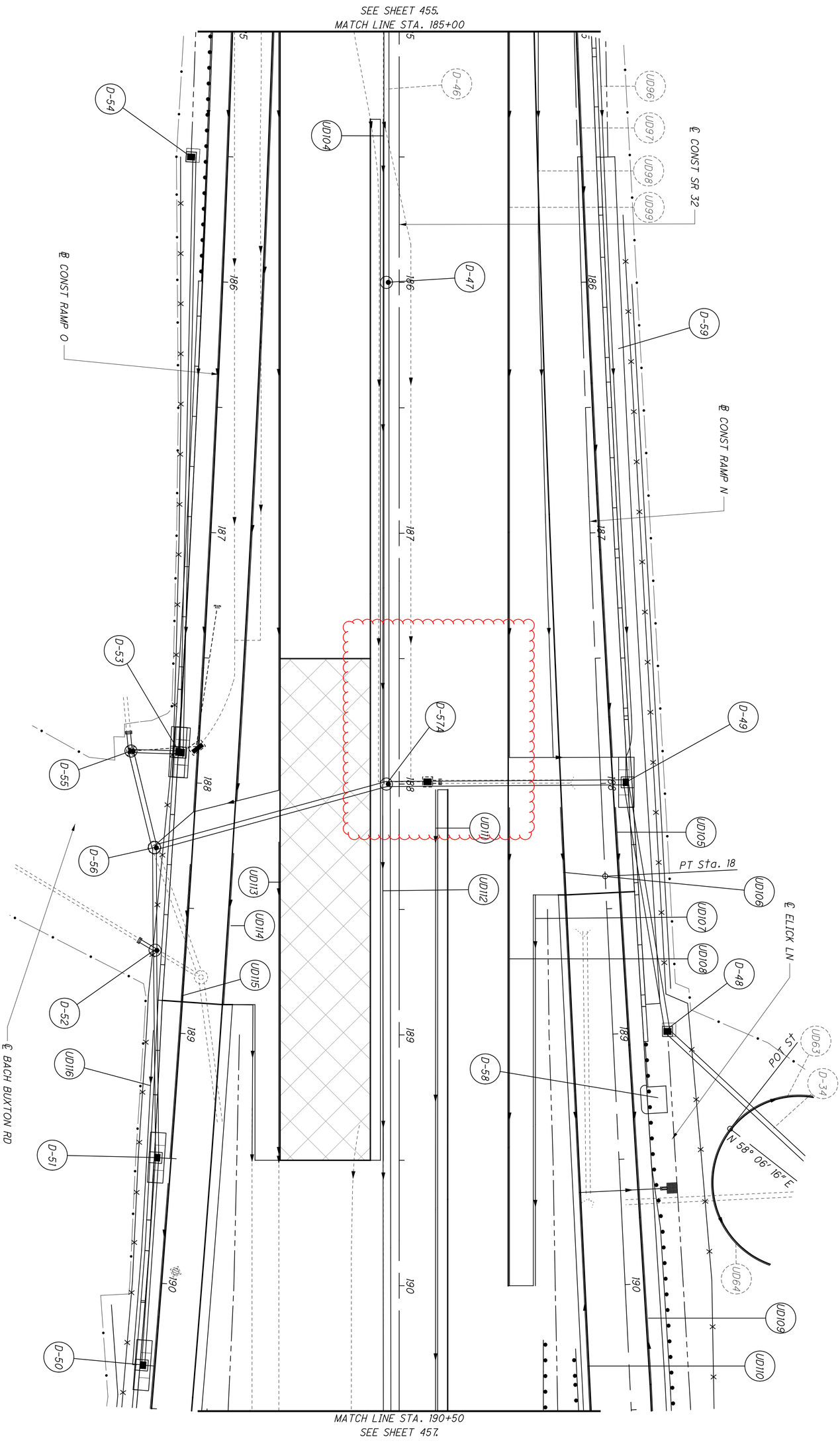
0 10 20 40
HORIZONTAL SCALE IN FEET



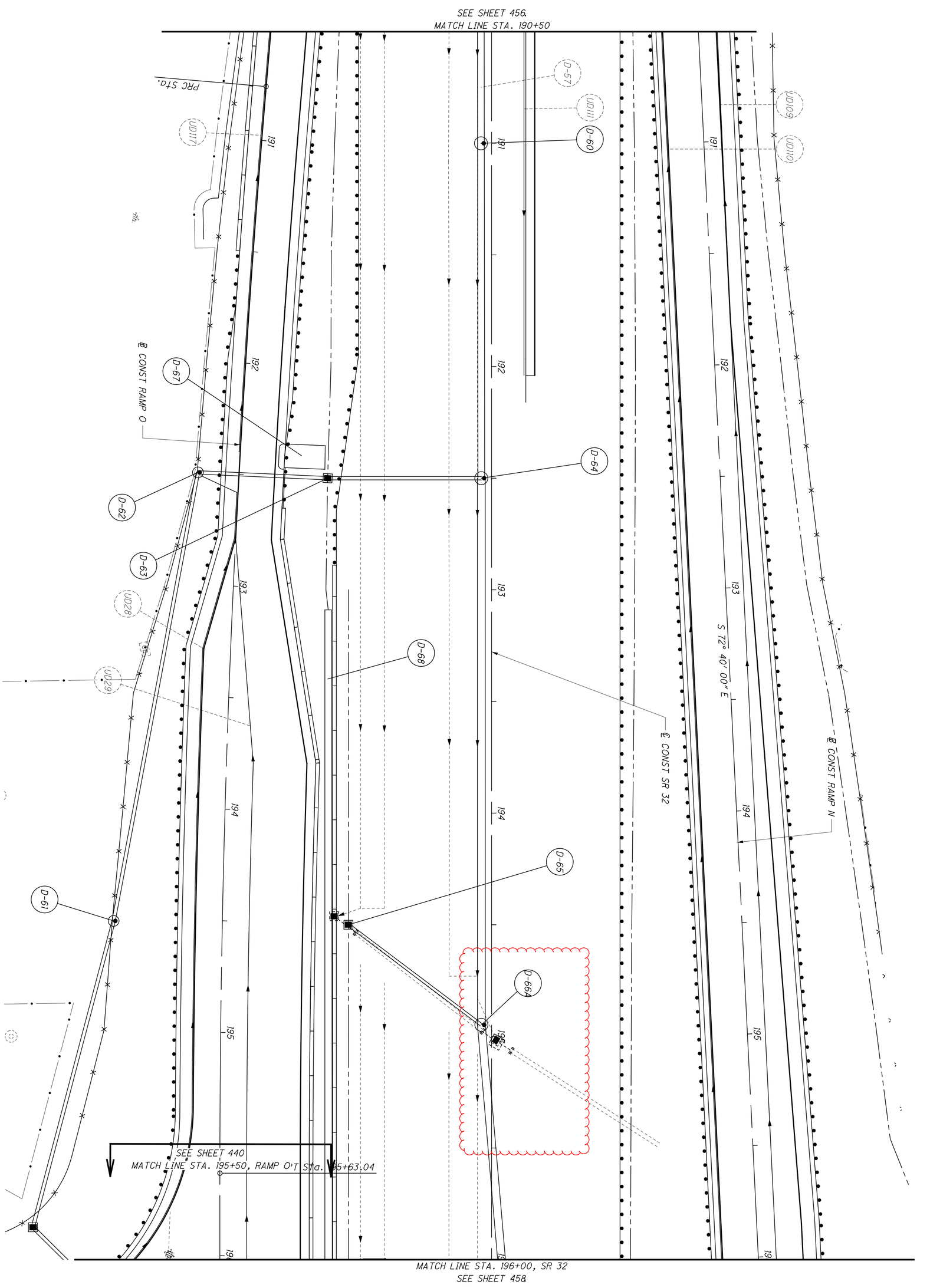
452 / 736	CLE-32-3.50 (PHASE 5)	UNDERDRAIN PLAN - SR 32 STA. 157+00 (BK) TO STA. 163+00 (AH)	CALCULATED MHT CHECKED WAA	0 20 10 40 HORIZONTAL SCALE IN FEET



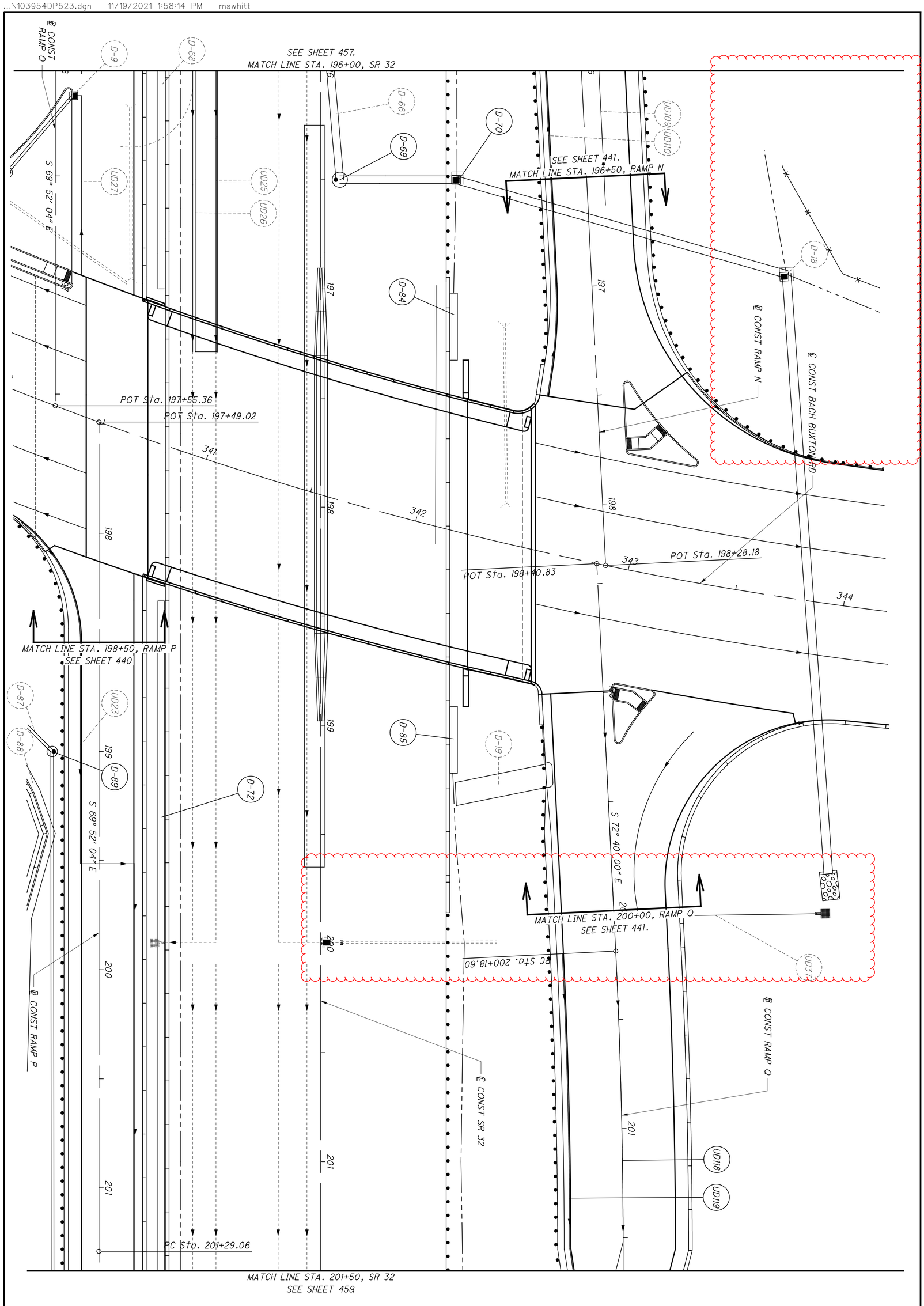
455 / 736	CLE-32-3.50 (PHASE 5)	DRAINAGE & UNDERDRAIN PLAN - SR 32 STA. 179+50 TO STA. 185+00	CALCULATED MHT / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET



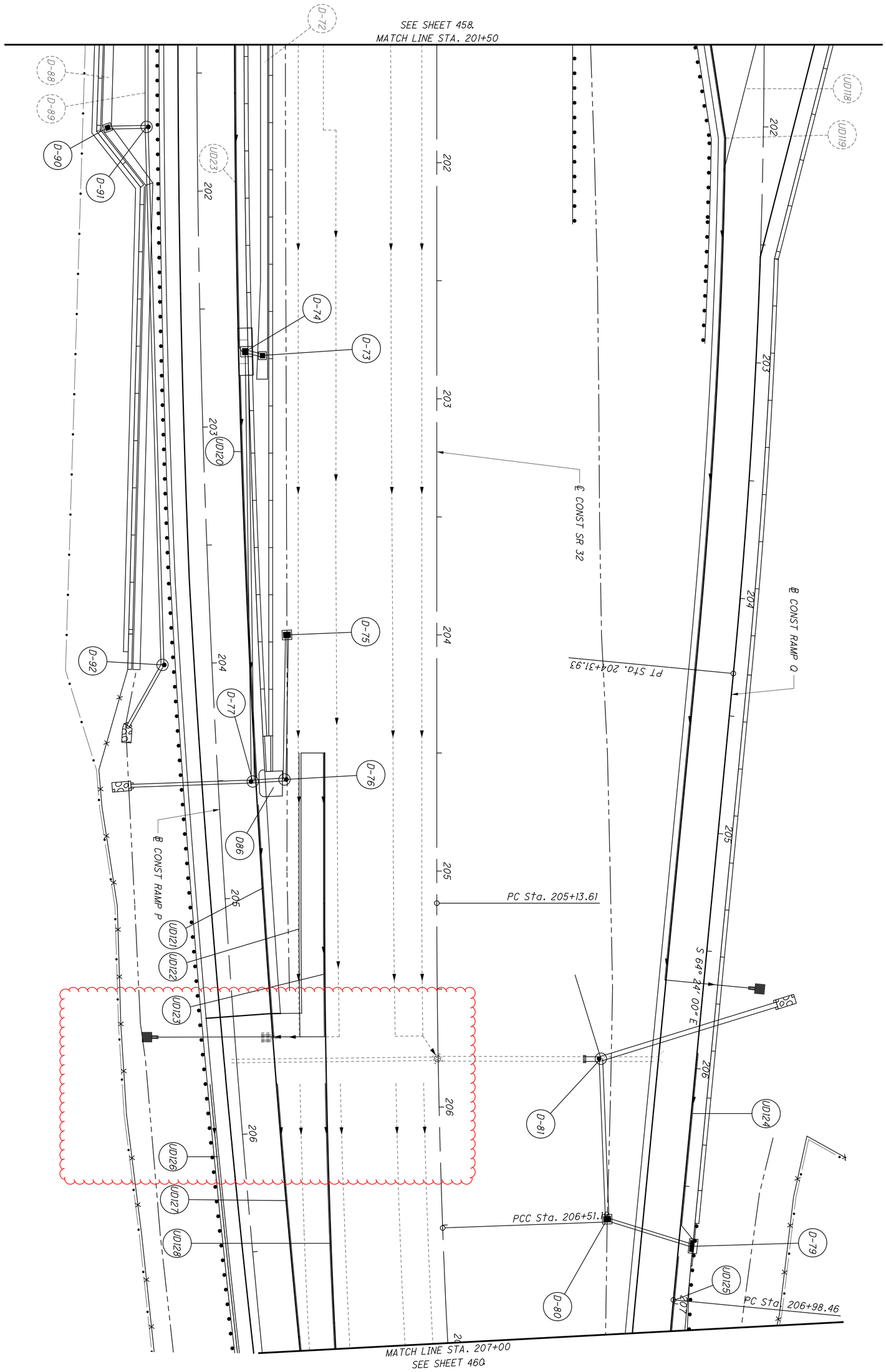
456 / 736	**CLE-32-3.50 (PHASE 5)**	**DRAINAGE & UNDERDRAIN PLAN - SR 32 STA. 185+00 TO STA. 190+50**	CALCULATED MHT / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET



457 / 736	CLE-32-3.50 (PHASE 5)	DRAINAGE & UNDERDRAIN PLAN - SR 32 STA. 190+50 TO STA. 196+00	CALCULATED MHT / CHECKED WAA	0 20 / 10 40 HORIZONTAL SCALE IN FEET



458 / 736	CLE-32-3.50 (PHASE 5)	DRAINAGE & UNDERDRAIN PLAN - SR 32 STA. 196+00 TO STA. 201+50	CALCULATED MHT / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET

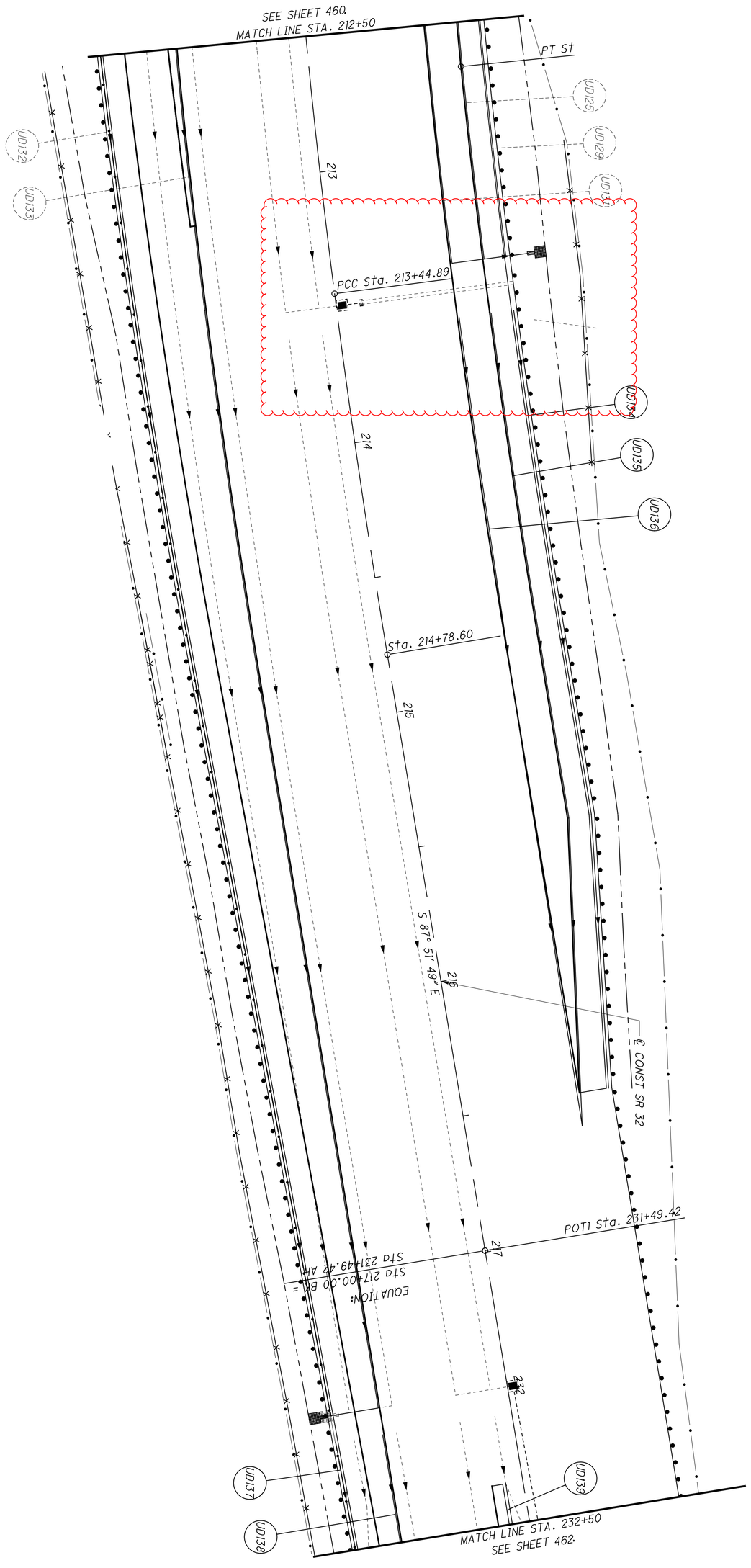


CLE-32-3.50
(PHASE 5)

DRAINAGE & UNDERDRAIN PLAN - SR 32
STA. 201+50 TO STA. 207+00

CALCULATED MHT
CHECKED WAA

0 20
10 40
HORIZONTAL SCALE IN FEET



461 / 736	CLE-32-3.50 (PHASE 5)	DRAINAGE & UNDERDRAIN PLAN - SR 32 STA. 212+50 (BK) TO STA. 232+50 (AH)	CALCULATED MHT / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	626 BARRIER REFLECTOR, TYPE 1, IWAY	626 BARRIER REFLECTOR, TYPE 2, IWAY	642 PARKING LOT STALL MARKING	644 EDGE LINE, 4" (WHITE)	644 EDGE LINE, 4" (YELLOW)	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	644 LANE LINE, 4"	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	644 CENTER LINE (DOUBLE YELLOW)	644 CENTER LINE (DASHED/SOLID)	644 CHANNELIZING LINE, 8"	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	644 STOP LINE	644 CROSSWALK LINE	644 TRANSVERSE/ DIAGONAL INE	644 CHEVRON MARKING	644 ISLAND MARKING
						EACH	EACH	FT	MILE	MILE	MILE	MILE	MILE	MILE	MILE	MILE	FT	FT	FT	FT	FT	FT	SF
507	BRB2	BACH BUXTON/RMP Q	346+16	206+65	RT/LT	10																	
	BRA4	BACH BUXTON	346+21	346+70	RT		1																
	LA32	BACH BUXTON	346+26		RT																		
	LA33	BACH BUXTON	346+55		LT																		
	LA34	BACH BUXTON	346+92		RT																		
	LA35	BACH BUXTON	347+21		LT																		
	LA36	BACH BUXTON	347+58		RT																		
	LA37	BACH BUXTON	347+80		LT																		
	WP10	BACH BUXTON	348+24		RT																		
	LA38	BACH BUXTON	348+90		RT																		
	SL12	BACH BUXTON	349+00		RT																36		
	DTW7	BACH BUXTON/OLD 74	349+00	211+64	RT/LT																		
508	ELY3	SR 32	133+95	157+50	RT							0.45											
	LL9	SR 32	133+95	157+50	RT									0.45									
	LL10	SR 32	133+95	157+50	RT									0.45									
	DTD1	SR 32	133+95	139+39	RT																		
	ELW9	SR 32	133+95	157+50	RT						0.45												
509	BRA5	SR 32	129+02	130+64	RT		2																
510		NO NEW QUANTITIES																					
511	CHI9	SR 32	139+39	143+22	RT														383				
	LA39	SR 32	139+58		RT																		
	WP11	SR 32	140+24		RT																		
	LA40	SR 32	140+90		RT																		
512	LA41	SR 32	141+55		RT																		
	WP12	SR 32	142+21		RT																		
	LA42	SR 32	142+87		RT																		
	REM2	SR 32	142+90	143+00	RT																		
	BRA6	SR 32	144+08	144+58	RT		1																
513		NO NEW QUANTITIES																					
514		NO NEW QUANTITIES																					
		SUBTOTALS THIS SHEET				10	4	0	0	0	0.45	0.45	0	0.9	0	0	0	383	36	0	0	0	0
		SUBTOTALS FROM SHEET 491				6	40	0	0.52	0	1.08	0.31	0.41	0.1	0.5	0	3241	973	223	0	909	0	490
		TOTALS CARRIED TO SHEET 495				16	44	0	0.52	0	1.53	0.76	0.41	1	0.5	0	3,241	1,356	259	0	909	0	490

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

493
736

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 LANE ARROW EACH	644 LANE REDUCTION ARROW EACH	644 WRONG WAY ARROW EACH	644 WORD ON PAVEMENT, 72" EACH	644 DOTTED LINE, 4" FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 8" / GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT	644 REMOVAL OF PAVEMENT MARKING FT	644 REMOVAL OF PAVEMENT MARKING EACH	644 REMOVAL OF PAVEMENT MARKING MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 4" (WHITE) / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 4" / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	646 CENTER LINE (DOUBLE YELLOW) MILE	646 CHANNELIZING LINE, 8" FT	646 STOP LINE FT	646 LANE ARROW EACH	646 WORD ON PAVEMENT, 72" EACH	646 DOTTED LINE, 4" FT
507	BRB2	BACH BUXTON/RMP Q	346+16	206+65	RT/LT																			
	BRA4	BACH BUXTON	346+21	346+70	RT																			
	LA32	BACH BUXTON	346+26		RT	3																		
	LA33	BACH BUXTON	346+55		LT	2																		
	LA34	BACH BUXTON	346+92		RT	3																		
	LA35	BACH BUXTON	347+21		LT	1																		
	LA36	BACH BUXTON	347+58		RT	3																		
	LA37	BACH BUXTON	347+80		LT	1																		
	WP10	BACH BUXTON	348+24		RT				3															
	LA38	BACH BUXTON	348+90		RT	3																		
	SL12	BACH BUXTON	349+00		RT																			
	DTW7	BACH BUXTON/OLD 74	349+00	211+64	RT/LT					176														
508	ELY3	SR 32	133+95	157+50	RT																			
	LL9	SR 32	133+95	157+50	RT																			
	LL10	SR 32	133+95	157+50	RT																			
	DTD1	SR 32	133+95	139+39	RT									544										
	ELW9	SR 32	133+95	157+50	RT																			
509	BRA5	SR 32	129+02	130+64	RT																			
510		NO NEW QUANTITIES																						
511	CH19	SR 32	139+39	143+22	RT																			
	LA39	SR 32	139+58		RT	1																		
	WP11	SR 32	140+24		RT				1															
	LA40	SR 32	140+90		RT	1																		
512	LA41	SR 32	141+55		RT	1																		
	WP12	SR 32	142+21		RT				1															
	LA42	SR 32	142+87		RT	1																		
	REM2	SR 32	142+90	143+00	RT										48									
	BRA6	SR 32	144+08	144+58	RT																			
513		NO NEW QUANTITIES																						
514		NO NEW QUANTITIES																						
		SUBTOTALS THIS SHEET				20	0	0	5	176	0	0	544	48	0	0	0	0	0	0	0	0	0	0
		SUBTOTALS FROM SHEET 492				48	1	0	12	153	0	0	0	0	0	0	0.06	0.04	0.01	401	96	4	4	527
		TOTALS CARRIED TO SHEET 496				68	1	0	17	329	0	0	544	48	0	0	0.06	0.04	0.01	401	96	4	4	527

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

494
736

PAVEMENT MARKING SUBSUMMARY

CALCULATED ACW | CHECKED WAA

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	626 BARRIER REFLECTOR, TYPE 1, IWAY (EACH)	626 BARRIER REFLECTOR, TYPE 2, IWAY (EACH)	642 PARKING LOT STALL MARKING (FT)	644 EDGE LINE, 4" (WHITE) (MILE)	644 EDGE LINE, 4" (YELLOW) (MILE)	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) (MILE)	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) (MILE)	644 LANE LINE, 4" (MILE)	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) (MILE)	644 CENTER LINE (DOUBLE YELLOW) (MILE)	644 CENTER LINE (DASHED/SOLID) (MILE)	644 CHANNELIZING LINE, 8" (FT)	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) (FT)	644 STOP LINE (FT)	644 CROSSWALK LINE (FT)	644 TRANSVERSE/ DIAGONAL INE (FT)	644 CHEVRON MARKING (FT)	644 ISLAND MARKING (SF)
515	BRA7	SR 32	157+28	158+77	RT		2																
	BRB3	SR 32	158+77	159+90	RT	1																	
	BRA8	SR 32	159+90	160+38	RT		1																
516		NO NEW QUANTITIES																					
517	BRA9	SR 32	170+77	174+11	RT		3																
518		NO NEW QUANTITIES																					
519	DTW9	SR 32	180+01	184+04	RT																		
	BRA10	SR 32	180+27	182+25	LT		3																
	BRA11	RAMP O	182+38	188+50	RT		6																
	BRB4	RAMP N	182+25	189+03	LT	7																	
	CH23	SR 32	184+04	188+88	RT														484				
	CM1	SR 32	184+04	188+88	RT																	144	
	CH24	RAMP O	184+04	188+88	LT														484				
520	ELY5	RMP N/BACH BUXTON	191+37	342+31	RT/LT							0.12											
	BRB5	RAMP O	188+50	191+50	RT	3																	
	ELW12	SR 32	188+88	205+51	RT						0.31												
	ELY6	RAMP O	188+88	197+18	LT							0.16											
	BRA12	RMP N/BACH BUXTON	189+03	349+28	LT		15																
	BRA13	SR 32	190+22	196+95	LT		7																
	BRA14	RAMP N	190+25	197+35	RT		7																
	LA46	RAMP N	190+40		CL																		
521	LL12	RAMP N	190+40	197+49	RT										0.13								
	BRA15	SR 32	190+53	192+89	RT		3																
	BRA16	RAMP O	190+52	192+64	LT		3																
	BRA17	NOT USED																					
	LA47	RAMP N	191+40		CL																		
	BRB6	RAMP N	192+64	197+06	LT	5																	
	BRB7	SR 32	192+89	204+58	RT	12																	
	LA48	RAMP O	192+92		LT																		
	CH25	RAMP O	193+48	197+09	LT														361				
	CH26	RAMP O/BACH BUXTON	193+48	339+12	CL														460				
	LA49	RAMP O	193+59		LT/RT																		
	CH27	RAMP O	193+89	196+94	LT														305				
	LA50	RAMP O	194+20		LT/RT																		
	LA51	RAMP O	194+86		LT/RT																		
	CH28	RAMP N	195+86	197+86	LT														200				
	LA52	RAMP N	195+86		LT																		
	ELW10	RAMP N	195+86	196+89	LT						0.02												
SUBTOTALS THIS SHEET						28	50	0	0	0	0.33	0.28	0	0.13	0	0	0	2294	0	0	0	144	0
SUBTOTALS FROM SHEET 493						16	44	0	0.52	0	1.53	0.76	0.41	1	0.5	0	3241	1356	259	0	909	0	490
TOTALS CARRIED TO SHEET 497						44	94	0	0.52	0	1.86	1.04	0.41	1.13	0.5	0	3,241	3,650	259	0	909	144	490

CLE-32-3.50 (PHASE 5)

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 LANE ARROW EACH	644 LANE REDUCTION ARROW EACH	644 WRONG WAY ARROW EACH	644 WORD ON PAVEMENT, 72" EACH	644 DOTTED LINE, 4" FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 8" / GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT	644 REMOVAL OF PAVEMENT MARKING FT	644 REMOVAL OF PAVEMENT MARKING EACH	644 REMOVAL OF PAVEMENT MARKING MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 4" (WHITE) / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 4" / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	646 CENTER LINE (DOUBLE YELLOW) MILE	646 CHANNELIZING LINE, 8" FT	646 STOP LINE FT	646 LANE ARROW EACH	646 WORD ON PAVEMENT, 72" EACH	646 DOTTED LINE, 4" FT
515	BRA7	SR 32	157+28	158+77	RT																			
	BRB3	SR 32	158+77	159+90	RT																			
	BRA8	SR 32	159+90	160+38	RT																			
516		NO NEW QUANTITIES																						
517	BRB9	SR 32	170+77	174+11	RT																			
518		NO NEW QUANTITIES																						
519	DTW9	SR 32	180+01	184+04	RT						403													
	BRA10	SR 32	180+27	182+25	LT																			
	BRA11	RAMP O	182+38	188+50	RT																			
	BRB4	RAMP N	182+25	189+03	LT																			
	CH23	SR 32	184+04	188+88	RT																			
	CM1	SR 32	184+04	188+88	RT																			
	CH24	RAMP O	184+04	188+88	LT																			
520	ELY5	RMP N/BACH BUXTON	191+37	342+31	RT/LT																			
	BRB5	RAMP O	188+50	191+50	RT																			
	ELW12	SR 32	188+88	205+51	RT																			
	ELY6	RAMP O	188+88	197+18	LT																			
	BRA12	RMP N/BACH BUXTON	189+03	349+28	LT																			
	BRA13	SR 32	190+22	196+95	LT																			
	BRA14	RAMP N	190+25	197+35	RT																			
	LA46	RAMP N	190+40		CL		1																	
521	LL12	RAMP N	190+40	197+49	RT																			
	BRA15	SR 32	190+53	192+89	RT																			
	BRA16	RAMP O	190+52	192+64	LT																			
	BRA17	NOT USED																						
	LA47	RAMP N	191+40		CL		1																	
	BRB6	RAMP N	192+64	197+06	LT																			
	BRB7	SR 32	192+89	204+58	RT																			
	LA48	RAMP O	192+92		LT			1																
	CH25	RAMP O	193+48	197+09	LT																			
	CH26	RAMP O/BACH BUXTON	193+48	339+12	CL																			
	LA49	RAMP O	193+59		LT/RT	3																		
	CH27	RAMP O	193+89	196+94	LT																			
	LA50	RAMP O	194+20		LT/RT	4																		
	LA51	RAMP O	194+86		LT/RT	4																		
	CH28	RAMP N	195+86	197+86	LT																			
	LA52	RAMP N	195+86		LT		1																	
	ELW10	RAMP N	195+86	196+89	LT																			
SUBTOTALS THIS SHEET						11	3	1	0	0	403	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTALS FROM SHEET 494						68	1	0	17	329	0	0	544	48	0	0	0.06	0.04	0.01	401	96	4	4	527
TOTALS CARRIED TO SHEET 498						79	4	1	17	329	403	0	544	48	0	0	0.06	0.04	0.01	401	96	4	4	527

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

496
736

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	626 BARRIER REFLECTOR, TYPE 1, IWAY EACH	626 BARRIER REFLECTOR, TYPE 2, IWAY EACH	642 PARKING LOT STALL MARKING FT	644 EDGE LINE, 4" (WHITE) MILE	644 EDGE LINE, 4" (YELLOW) MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	644 LANE LINE, 4" MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	644 CENTER LINE (DOUBLE YELLOW) MILE	644 CENTER LINE (DASHED/SOLID) MILE	644 CHANNELIZING LINE, 8" FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT	644 STOP LINE FT	644 CROSSWALK LINE FT	644 TRANSVERSE/ DIAGONAL INE FT	644 CHEVRON MARKING FT	644 ISLAND MARKING SF
522	BRB8	NOT USED																					
	BRB9	SR 32	196+60	199+28	RT	3																	
	BRB10	SR 32	196+95	199+86	LT	3																	
	LA53	RAMP P	199+00		CL																		
	BRA18	SR 32	199+86	202+23	LT		3																
	LA54	RAMP Q	200+43		LT/RT																		
	LA55	RAMP Q	201+09		LT/RT																		
523	LA56	RAMP Q	201+75		LT/RT																		
	LA57	RAMP Q	202+41		RT																		
	LA58	RAMP P	202+65		CL																		
	DTD4	RAMP P/SR 32	203+65	216+15	LT/RT																		
	CH29	RAMP P/SR 32	205+50	211+00	LT/RT															552			
	CH30	SR 32	205+51	211+00	RT															549			
	BRA19	RAMP Q/SR 32	206+65	234+83	LT		14																
524	CH31	RAMP Q	208+06	210+89	RT															286			
	DTW11	SR 32	211+00	236+64	RT																		
525		NO NEW QUANTITIES																					
526		NO NEW QUANTITIES																					
527		NO NEW QUANTITIES																					
528		NO NEW QUANTITIES																					
529		NO NEW QUANTITIES																					
530		NO NEW QUANTITIES																					
531	REM3	GEW	12+17	15+50	RT																		
	DTW12	GEW	12+17	14+80	RT																		
	REM4	GEW	13+15	15+42	LT																		
	DYL6	GEW	13+65	14+80	LT											0.02							
532	ELW13	GEW/SR 32	15+50	143+00	LT/RT				0.09														
	TLW1	GEW	15+50	16+40	LT																	85	
	CH33	GEW	15+50	15+50	LT													189					
	CM3	GEW	15+50	16+44	LT																	67	
	DLY7	GEW	15+50	16+44	CL											0.02							
	CH34	GEW	15+50	16+57	RT													153					
	ELW14	GEW	15+40	16+40	RT				0.02														
	TLW2	GEW	15+40	16+40	RT																	108	
SUBTOTALS THIS SHEET						6	17	0	0.11	0	0	0	0	0	0.04	0	342	1387	0	0	193	67	0
SUBTOTALS FROM SHEET 495						44	94	0	0.52	0	1.86	1.04	0.41	1.13	0.5	0	3241	3650	259	0	909	144	490
TOTALS CARRIED TO SHEET 499						50	111	0	0.63	0	1.86	1.04	0.41	1.13	0.54	0	3,583	5,037	259	0	1102	211	490

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

497
736

...\310.20\310.205\103954TS502.dgn 11/18/2021 4:25:28 PM ssopraseuth

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 LANE ARROW EACH	644 LANE REDUCTION ARROW EACH	644 WRONG WAY ARROW EACH	644 WORD ON PAVEMENT, 72" EACH	644 DOTTED LINE, 4" FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 8" / GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT	644 REMOVAL OF PAVEMENT MARKING FT	644 REMOVAL OF PAVEMENT MARKING EACH	644 REMOVAL OF PAVEMENT MARKING MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 4" (WHITE) / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 4" / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	646 CENTER LINE (DOUBLE YELLOW) MILE	646 CHANNELIZING LINE, 8" FT	646 STOP LINE FT	646 LANE ARROW EACH	646 WORD ON PAVEMENT, 72" EACH	646 DOTTED LINE, 4" FT
522	BRB8	NOT USED																						
	BRB9	SR 32	196+60	199+28	RT																			
	BRB10	SR 32	196+95	199+86	LT																			
	LA53	RAMP P	199+00		CL		1																	
	BRA18	SR 32	199+86	202+23	LT																			
	LA54	RAMP Q	200+43		LT/RT	4																		
	LA55	RAMP Q	201+09		LT/RT	4																		
523	LA56	RAMP Q	201+75		LT/RT	2																		
	LA57	RAMP Q	202+41		RT			1																
	LA58	RAMP P	202+65		CL		1																	
	DTD4	RAMP P/SR 32	203+65	216+15	LT/RT							1260												
	CH29	RAMP P/SR 32	205+50	211+00	LT/RT																			
	CH30	SR 32	205+51	211+00	RT																			
	BRA19	RAMP Q/SR 32	206+65	234+83	LT																			
524	CH31	RAMP Q	208+06	210+89	RT																			
	DTW11	SR 32	211+00	236+64	RT						1120													
525		NO NEW QUANTITIES																						
526		NO NEW QUANTITIES																						
527		NO NEW QUANTITIES																						
528		NO NEW QUANTITIES																						
529		NO NEW QUANTITIES																						
530		NO NEW QUANTITIES																						
531	REM3	GEW	12+17	15+50	RT											0.06								
	DTW12	GEW	12+17	14+80	RT					263														
	REM4	GEW	13+15	15+42	LT										227									
	DYL6	GEW	13+65	14+80	LT																			
532	ELW13	GEW/SR 32	15+50	143+00	LT/RT																			
	TLW1	GEW	15+50	16+40	LT																			
	CH33	GEW	15+50	15+50	LT																			
	CM3	GEW	15+50	16+44	LT																			
	DLY7	GEW	15+50	16+44	CL																			
	CH34	GEW	15+50	16+57	RT																			
	ELW14	GEW	15+40	16+40	RT																			
	TLW2	GEW	15+40	16+40	RT																			
SUBTOTALS THIS SHEET						10	2	1	0	263	1120	1260	0	227	0	0.06	0	0	0	0	0	0	0	0
SUBTOTALS FROM SHEET 496						79	4	1	17	329	403	0	544	48	0	0	0.06	0.04	0.01	401	96	4	4	527
TOTALS CARRIED TO SHEET 500						89	6	2	17	592	1523	1260	544	275	0	0.06	0.06	0.04	0.01	401	96	4	4	527

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

498
736

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	626 BARRIER REFLECTOR, TYPE 1, 1WAY EACH	626 BARRIER REFLECTOR, TYPE 2, 1WAY EACH	642 PARKING LOT STALL MARKING FT	644 EDGE LINE, 4" (WHITE) MILE	644 EDGE LINE, 4" (YELLOW) MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	644 LANE LINE, 4" MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	644 CENTER LINE (DOUBLE YELLOW) MILE	644 CENTER LINE (DASHED/SOLID) MILE	644 CHANNELIZING LINE, 8" FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT	644 STOP LINE FT	644 CROSSWALK LINE FT	644 TRANSVERSE/ DIAGONAL INE FT	644 CHEVRON MARKING FT	644 ISLAND MARKING SF
532	LA59	GEW	15+60		LT																		
	WP14	GEW	15+68		RT																		
	LA60	GEW	15+68		RT																		
	ELY7	GEW	16+24	16+42	LT					0.01													
	WP15	GEW	16+26		LT																		
	LA61	GEW	16+34		RT																		
	ELY8	GEW	16+59	16+60	LT					0.01													
	DLY8	GEW	15+57	15+57	RT											0.01							
	LA62	GEW	16+67		RT																		
	TLW3	GEW/SR 32	16+72	143+08	LT/RT																	156	
	CH35	GEW	16+74	17+46	LT													72					
	CH36	GEW	16+74	17+46	LT													72					
	ELY9	GEW/SR 32	16+74	143+22	CL/RT					0.06													
	ELW15	GEW	16+74	16+74	RT				0.01														
	LA63	GEW	16+84		LT																		
	LA64	GEW	17+36		LT																		
	TLY4	GEW/SR 32	17+56	143+22	CL/RT																	202	
533	CH37	GEW	22+60	26+08	RT													348					
	LA65	GEW	22+70		RT																		
	LL13	GEW	23+19	26+08	RT									0.05									
	LA66	GEW	23+34		RT																		
	LA67	GEW	24+00		RT																		
	ELW16	GEW	24+01	24+12	LT				0.01														
	LA68	GEW	24+09		LT																		
	WP16	GEW	24+17		LT																		
	DYL9	GEW	24+24	26+08	LT											0.05							
	TYL5	GEW	24+24	26+08	LT																	463	
	DYL10	GEW	24+24	26+08	LT											0.04							
	LA69	GEW	24+33		LT																		
	ELW17	GEW/EASTGATE	24+38	46+57	LT/RT				0.06														
	TLW4	GEW/EASTGATE	24+38	46+57	LT/RT																	358	
	LA70	GEW	24+66		RT																		
	WP17	GEW	24+86		LT																		
	WP18	GEW	25+32		RT																		
	LA71	GEW	25+52		LT																		
	LA72	GEW	25+68		RT																		
	SL13	GEW	26+08		RT															43			
	XW1	GEW	26+17	26+90	LT																134		
534	DYL11	EASTGATE	46+57	46+94	LT												0.01						
	CH38	EASTGATE	46+57	46+94	RT													36					
	ELW18	EASTGATE/GEW	46+78	28+81	LT				0.04														
	TLW5	EASTGATE/GEW	46+78	28+81	LT																	174	
	LA73	EASTGATE	46+84		CL																		
	SL14	EASTGATE	46+94		RT															25			
	XW2	EASTGATE	47+07	48+06	LT																198		
	SL15	GEW	27+30		LT															24			
	CH39	GEW	27+30	28+81	LT													151					
	LA74	GEW	27+40		LT																		
	WP19	GEW	28+06		LT																		
	LA75	GEW	28+72		LT																		
SUBTOTALS THIS SHEET						0	0	0	0.12	0.08	0	0	0.05	0	0.1	0.01	679	0	92	332	1353	0	0
SUBTOTALS FROM SHEET 497						50	111	0	0.63	0	1.86	1.04	0.41	1.13	0.54	0	3583	5037	259	0	1102	211	490
TOTALS CARRIED TO SHEET 501						50	111	0	0.75	0.08	1.86	1.04	0.46	1.13	0.64	0.01	4,262	5,037	351	332	2455	211	490

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 LANE ARROW EACH	644 LANE REDUCTION ARROW EACH	644 WRONG WAY ARROW EACH	644 WORD ON PAVEMENT, 72" EACH	644 DOTTED LINE, 4" FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 8" / GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT	644 REMOVAL OF PAVEMENT MARKING FT	644 REMOVAL OF PAVEMENT MARKING EACH	644 REMOVAL OF PAVEMENT MARKING MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 4" (WHITE) / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 4" / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	646 CENTER LINE (DOUBLE YELLOW) MILE	646 CHANNELIZING LINE, 8" FT	646 STOP LINE FT	646 LANE ARROW EACH	646 WORD ON PAVEMENT, 72" EACH	646 DOTTED LINE, 4" FT
532	LA59	GEW	15+60		LT	1																		
	WP14	GEW	15+68		RT				1															
	LA60	GEW	15+68		RT	1																		
	ELY7	GEW	16+24	16+42	LT																			
	WP15	GEW	16+26		LT				1															
	LA61	GEW	16+34		RT	2																		
	ELY8	GEW	16+59	16+60	LT																			
	DLY8	GEW	15+57	15+57	RT																			
	LA62	GEW	16+67		RT	1																		
	TLW3	GEW/SR 32	16+72	143+08	LT/RT																			
	CH35	GEW	16+74	17+46	LT																			
	CH36	GEW	16+74	17+46	LT																			
	ELY9	GEW/SR 32	16+74	143+22	CL/RT																			
	ELW15	GEW	16+74	16+74	RT																			
	LA63	GEW	16+84		LT	1																		
	LA64	GEW	17+36		LT	1																		
	TLY4	GEW/SR 32	17+56	143+22	CL/RT																			
533	CH37	GEW	22+60	26+08	RT																			
	LA65	GEW	22+70		RT	1																		
	LL13	GEW	23+19	26+08	RT																			
	LA66	GEW	23+34		RT	1																		
	LA67	GEW	24+00		RT	1																		
	ELW16	GEW	24+01	24+12	LT																			
	LA68	GEW	24+09		LT	1																		
	WP16	GEW	24+17		LT				1															
	DYL9	GEW	24+24	26+08	LT																			
	TYL5	GEW	24+24	26+08	LT																			
	DYL10	GEW	24+24	26+08	LT																			
	LA69	GEW	24+33		LT	1																		
	ELW17	GEW/EASTGATE	24+38	46+57	LT/RT																			
	TLW4	GEW/EASTGATE	24+38	46+57	LT/RT																			
	LA70	GEW	24+66		RT	1																		
	WP17	GEW	24+86		LT				1															
	WP18	GEW	25+32		RT				1															
	LA71	GEW	25+52		LT	1																		
	LA72	GEW	25+68		RT	1																		
	SL13	GEW	26+08		RT																			
	XW1	GEW	26+17	26+90	LT																			
534	DYL11	EASTGATE	46+57	46+94	LT																			
	CH38	EASTGATE	46+57	46+94	RT																			
	ELW18	EASTGATE/GEW	46+78	28+81	LT																			
	TLW5	EASTGATE/GEW	46+78	28+81	LT																			
	LA73	EASTGATE	46+84		CL	1																		
	SL14	EASTGATE	46+94		RT																			
	XW2	EASTGATE	47+07	48+06	LT																			
	SL15	GEW	27+30		LT																			
	CH39	GEW	27+30	28+81	LT																			
	LA74	GEW	27+40		LT	1																		
	WP19	GEW	28+06		LT				1															
	LA75	GEW	28+72		LT	1																		
SUBTOTALS THIS SHEET						18	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTALS FROM SHEET 498						89	6	2	17	592	1523	1260	544	275	0	0.06	0.06	0.04	0.01	401	96	4	4	527
TOTALS CARRIED TO SHEET 502						107	6	2	23	592	1523	1260	544	275	0	0.06	0.06	0.04	0.01	401	96	4	4	527

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

500
736

...\310.20\310.205\103954TS502.dgn 11/18/2021 4:25:30 PM ssoprayseuth

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	626 BARRIER REFLECTOR, TYPE 1, IWAY EACH	626 BARRIER REFLECTOR, TYPE 2, IWAY EACH	642 PARKING LOT STALL MARKING FT	644 EDGE LINE, 4" (WHITE) MILE	644 EDGE LINE, 4" (YELLOW) MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW) / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	644 LANE LINE, 4" MILE	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) MILE	644 CENTER LINE (DOUBLE YELLOW) MILE	644 CENTER LINE (DASHED/SOLID) MILE	644 CHANNELIZING LINE, 8" FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT	644 STOP LINE FT	644 CROSSWALK LINE FT	644 TRANSVERSE/ DIAGONAL INE FT	644 CHEVRON MARKING FT	644 ISLAND MARKING SF
535	ELW19	ELICK/MARIAN	48+39	46+44	LT				0.12														
	CH40	ELICK	48+39	49+50	LT												111						
	DYL12	ELICK	48+39	49+50	CL										0.02								
	LA76	ELICK	48+49		LT																		
	WP20	ELICK	49+15		LT																		
536	IM3	ELICK	60+72	60+78	LT																		57
	DSL1	ELICK	60+78	62+00	LT											0.02							
	DSL2	ELICK	60+78	62+00	CL											0.02							
	ELW20	ELICK	62+00	63+59	RT/LT				0.11														
537		NO NEW QUANTITIES																					
538	ELW21	OLD 74	199+20	201+94	LT				0.05														
	DYL13	OLD 74	199+20	201+60	CL										0.05								
	ELW22	OLD 74	199+20	202+17	RT/LT				0.08														
539	DYL14	OLD 74	205+15	207+76	CL										0.05								
	ELW23	OLD 74	205+50	205+50	LT/RT				0.04														
	REM5	OLD 74	205+50	205+83	LT																		
	REM6	OLD 74	205+50	207+76	RT/CL																		
	REM7	OLD 74	205+70		LT																		
	REM8	OLD 74	205+74		CL																		
540	PLS1	EASTGATE WOODS						173															
	PLS2	EASTGATE WOODS						380															
SUBTOTALS THIS SHEET						0	0	553	0.4	0	0	0	0	0	0.12	0.04	111	0	0	0	0	0	57
SUBTOTALS FROM SHEET 499						50	111	0	0.75	0.08	1.86	1.04	0.46	1.13	0.64	0.01	4262	5037	351	332	2455	211	490
TOTALS CARRIED TO GENERAL SUMMARY						50	111	553	1.23		2.9		0.46	1.13	0.81		4,373	5,037	351	332	2,455	211	547

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

501
736

...\310.20\310.205\103954TS502.dgn 11/18/2021 4:25:31 PM ssoprasetuh

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 LANE ARROW EACH	644 LANE REDUCTION ARROW EACH	644 WRONG WAY ARROW EACH	644 WORD ON PAVEMENT, 72" EACH	644 DOTTED LINE, 4" FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6" / GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 8" / GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT) FT	807 / 850 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 12" / GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT) FT	644 REMOVAL OF PAVEMENT MARKING FT	644 REMOVAL OF PAVEMENT MARKING EACH	644 REMOVAL OF PAVEMENT MARKING MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 4" (WHITE) / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	807 / 850 WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 4" / GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE) MILE	646 CENTER LINE (DOUBLE YELLOW) MILE	646 CHANNELIZING LINE, 8" FT	646 STOP LINE FT	646 LANE ARROW EACH	646 WORD ON PAVEMENT, 72" EACH	646 DOTTED LINE, 4" FT
535	ELW19	ELICK/MARIAN	48+39	46+44	LT																			
	CH40	ELICK	48+39	49+50	LT																			
	DYL12	ELICK	48+39	49+50	CL																			
	LA76	ELICK	48+49		LT	1																		
	WP20	ELICK	49+15		LT				1															
536	IM3	ELICK	60+72	60+78	LT																			
	DSL1	ELICK	60+78	62+00	LT																			
	DSL2	ELICK	60+78	62+00	CL																			
	ELW20	ELICK	62+00	63+59	RT/LT																			
537		NO NEW QUANTITIES																						
538	ELW21	OLD 74	199+20	201+94	LT																			
	DYL13	OLD 74	199+20	201+60	CL																			
	ELW22	OLD 74	199+20	202+17	RT/LT																			
539	DYL14	OLD 74	205+15	207+76	CL																			
	ELW23	OLD 74	205+50	205+50	LT/RT																			
	REM5	OLD 74	205+50	205+83	LT										33									
	REM6	OLD 74	205+50	207+76	RT/CL												0.04							
	REM7	OLD 74	205+70		LT											1								
	REM8	OLD 74	205+74		CL											1								
540	PLS1	EASTGATE WOODS																						
	PLS2	EASTGATE WOODS																						
SUBTOTALS THIS SHEET						1	0	0	1	0	0	0	0	33	2	0.04	0	0	0	0	0	0	0	0
SUBTOTALS FROM SHEET 500						107	6	2	23	592	1523	1260	544	275	0	0.06	0.06	0.04	0.01	401	96	4	4	527
TOTALS CARRIED TO GENERAL SUMMARY						108	6	2	24	592	1,523	1,260	544	308	2	0.1	0.06	0.04	0.01	401	96	4	4	527

CALCULATED ACW
CHECKED WAA

PAVEMENT MARKING SUBSUMMARY

CLE-32-3.50
(PHASE 5)

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	621 RPM (WHITE/RED TWO-WAY) EACH	621 RPM (YELLOW/YELLOW TWO-WAY) EACH	621 RPM (YELLOW/RED TWO-WAY) EACH		
504	RPM1	BACH BUXTON	332+41	339+80	LT	9				
	RPM2	BACH BUXTON	332+41	334+65	LT	6				
	RPM3	BACH BUXTON	332+41	339+80	LT		9			
	RPM4	BACH BUXTON	332+41	339+80	CL		9			
	RPM5	BACH BUXTON	332+43	335+60	RT	4				
	RPM6	BACH BUXTON	335+60	339+80	RT	10				
	RPM7	BACH BUXTON	335+60	339+80	RT	10				
	RPM8	BACH BUXTON	335+60	339+80	RT	5				
505	RPM9	BACH BUXTON/RMP O	339+21	195+91	LT/RT	3				
	RPM10	NOT USED								
	RPM11	NOT USED								
	RPM12	RAMP P	198+14	203+65	LT	6				
506	RPM13	NOT USED								
	RPM14	NOT USED								
	RPM15	NOT USED								
	RPM16	NOT USED								
	RPM17	NOT USED								
	RPM18	BACH BUXTON	342+85	346+05	LT	8				
	RPM19	BACH BUXTON	343+15	349+04	LT	7				
	RPM20	BACH BUXTON	343+15	347+90	LT	12				
	RPM21	BACH BUXTON	343+15	346+90	LT	9				
	RPM22	BACH BUXTON	343+15	349+00	CL		7			
	RPM23	BACH BUXTON	343+15	349+00	RT		7			
	RPM24	BACH BUXTON	343+15	344+10	RT	2				
	RPM25	BACH BUXTON	344+10	349+00	RT	12				
	RPM26	BACH BUXTON	344+70	349+00	RT	10				
	RPM27	RMP N/BACH BUXTON	196+89	343+46	LT	3				
	RPM28	RAMP Q	198+90	201+85	CL	7				
	RPM29	RAMP Q	199+01	201+45	RT	6				
	RPM30	BACH BUXTON/RMP Q	343+30	199+60	RT/CL	3				
	RPM31	BACH BUXTON/RMP Q	343+45	201+45	LT	6				
507		NO NEW QUANTITIES								
509		NO NEW QUANTITIES								
510		NO NEW QUANTITIES								
511	RPM35	SR 32	139+39	143+22	RT	10				
512		NO NEW QUANTITIES								
513		NO NEW QUANTITIES								
514		NO NEW QUANTITIES								
515		NO NEW QUANTITIES								
516		NO NEW QUANTITIES								
517		NO NEW QUANTITIES								
518		NO NEW QUANTITIES								
519		NO NEW QUANTITIES								
SUBTOTALS CARRIED TO RIGHT PAGE						148	32	0		

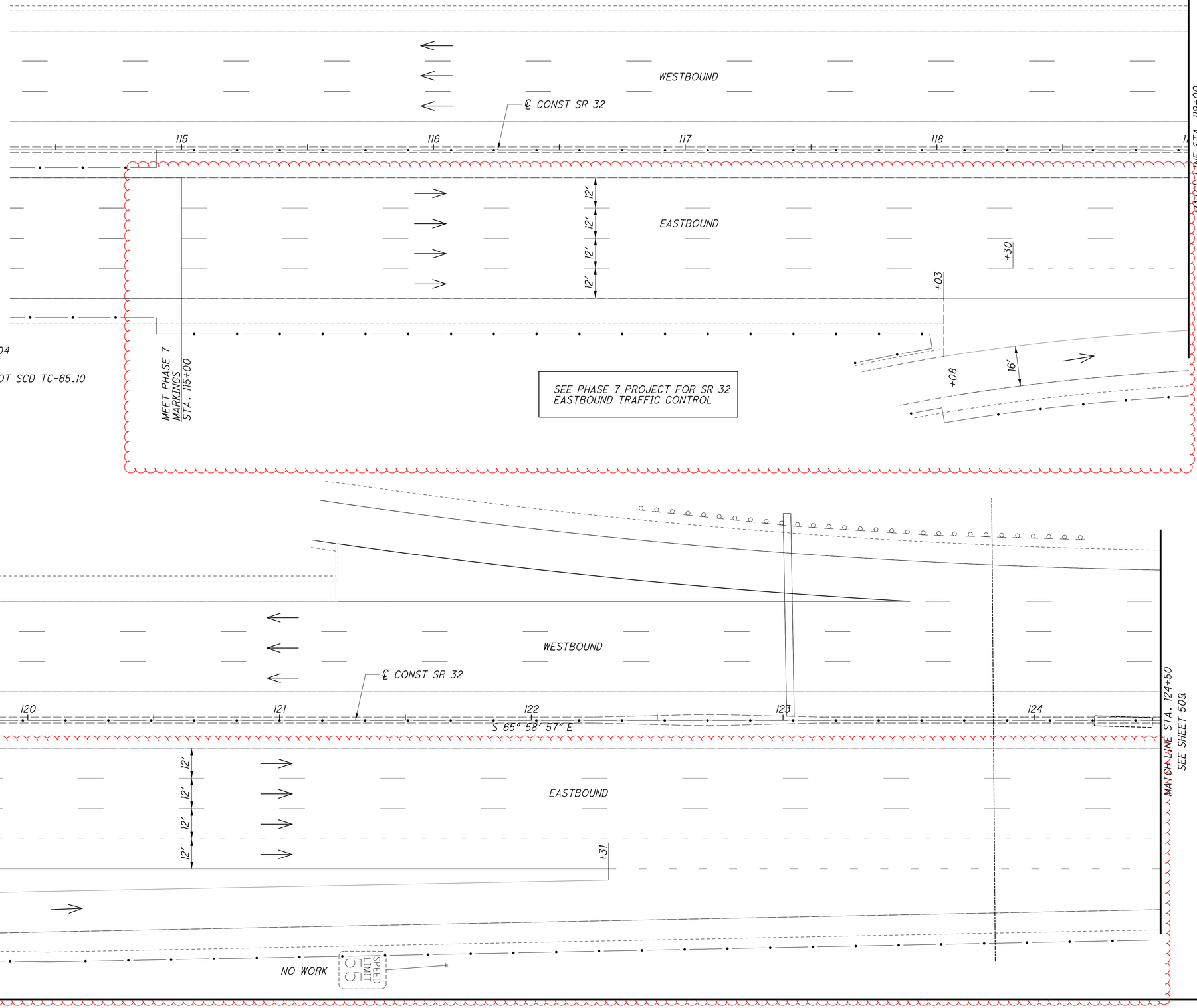
SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	621 RPM (WHITE/RED TWO-WAY) EACH	621 RPM (YELLOW/YELLOW TWO-WAY) EACH	621 RPM (YELLOW/RED TWO-WAY) EACH	621 RAISED PAVEMENT MARKER REMOVED EACH	
519	RPM41	SR 32	184+04	188+88	RT	12				
	RPM42	RAMP O	184+04	188+88	LT	12				
520	RPM42A	RAMP O	188+88	197+18	LT			10		
521	RPM43	RAMP N	190+40	197+49	RT	8				
	RPM45	RAMP O	193+48	197+09	LT	9				
	RPM46	RMP O/BACH BUXTON	193+48	339+12	CL	11				
	RPM47	RAMP O	193+89	196+94	LT	7				
	RPM48	RAMP N	195+86	197+86	LT	5				
522	RPM48A	RAMP Q	198+84	208+06	RT			12		
523	RPM49	RAMP P/SR 32	203+65	216+15	LT/RT	15				
	RPM50	RAMP P/SR 32	205+50	211+00	LT/RT	13				
	RPM51	SR 32	205+51	211+00	RT	13				
524	RPM52	RAMP Q	208+06	210+89	RT	7				
525		NO NEW QUANTITIES								
526		NO NEW QUANTITIES								
527		NO NEW QUANTITIES								
528		NO NEW QUANTITIES								
529		NO NEW QUANTITIES								
530		NO NEW QUANTITIES								
531	RPM54	GEW	12+17	14+80	RT	3				
	RPM55	GEW	13+65	14+80	LT		2			
532	RPM56	GEW	15+50	15+50	LT	5				
	RPM57	GEW	15+50	16+44	CL		2			
	RPM58	GEW	15+50	16+57	RT	4				
	RPM59	GEW	16+74	17+46	LT	3				
533	RPM60	GEW	22+60	26+08	RT	8				
	RPM61	GEW	23+19	26+08	RT	3				
	RPM62	GEW	24+24	26+08	LT		3			
	RPM63	GEW	24+24	26+08	LT		3			
534	RPM64	EASTGATE	46+57	46+94	LT		2			
	RPM65	EASTGATE	46+57	46+94	RT	3				
	RPM66	GEW	27+30	28+81	LT	4				
535	RPM67	ELICK	48+39	49+50	LT	3				
	RPM68	ELICK	48+39	49+50	CL		2			
536	RPM69	ELICK	60+78	62+00	LT		2			
	RPM70	ELICK	60+78	62+00	CL		2			
537		NO NEW QUANTITIES								
538	RPM71	OLD 74	199+20	201+60	CL		3			
539	RPM72	OLD 74	205+15	207+76	CL		3			
		ESTIMATED RPM REMOVALS				148	24	22	450	
		SUBTOTALS THIS PAGE				148	32	0	450	
		SUBTOTALS FROM LEFT PAGE				148	32	0	450	
		TOTALS THIS PAGE				296	56	22	450	
TOTAL CARRIED TO GENERAL SUMMARY						374			450	

CALCULATED ACW
CHECKED WAA

RPM SUBSUMMARY

CLE-32-3.50
(PHASE 5)

503
736



NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.

CALLOUT "REM1" NOT USED

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 115+00 TO STA. 124+50

CLE-32-3.50
(PHASE 5)

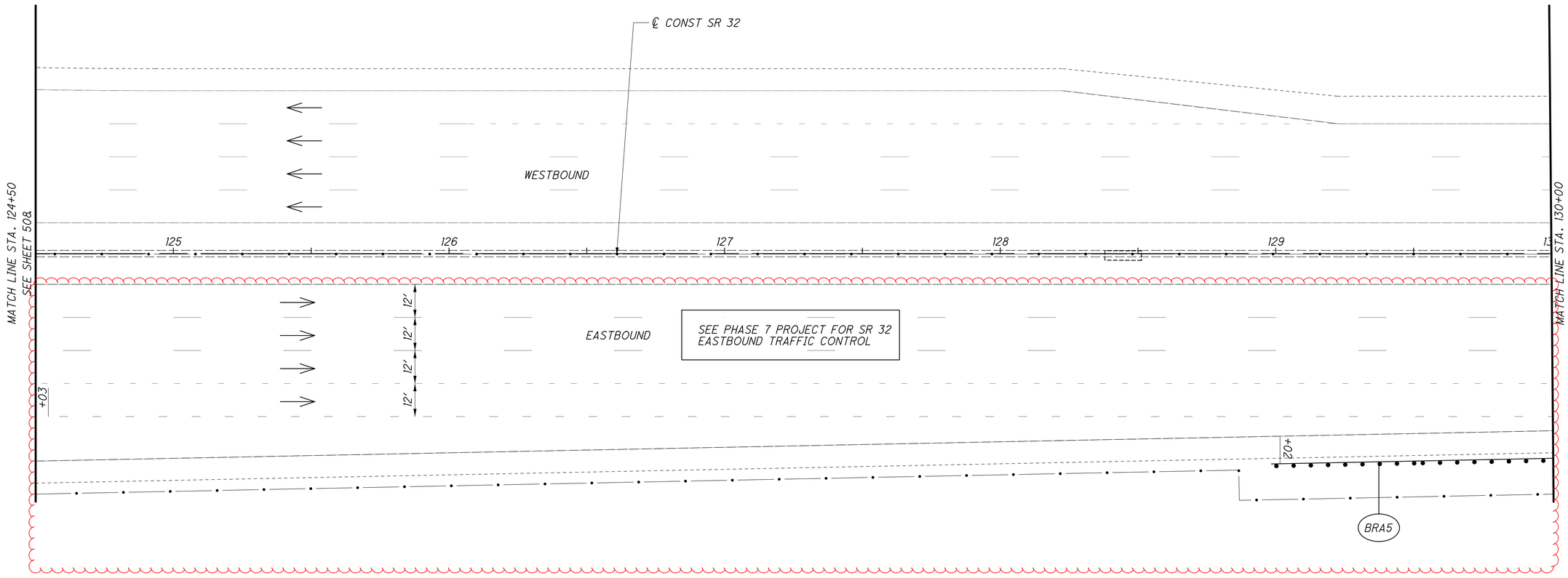
508
736

\310.20\310.205\103954TP509.dgn 11/18/2021 4:21:06 PM ssoprasetuth

NOTE:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 124+50 TO STA. 130+00

CLE-32-3.50
(PHASE 5)

509
736

R3

LEFT LANE MUST TURN LEFT

℄ CONST SR 32

SEE PHASE 7 PROJECT FOR SR 32
WESTBOUND TRAFFIC CONTROL

WESTBOUND

EASTBOUND

12′ 12′ 12′ 11′

12′ 12′ 12′ 12′

PC Sta. 134+00.97

EL Y3 6″

MATCH LINE STA. 130+00
SEE SHEET 509

MATCH LINE STA. 135+50
SEE SHEET 511

130 131 132 133 134 135

+64

+58

BRA5

OS6

Bach Buxton Rd
Old SR 74
EXIT 1 MILE

LEVEL 1 SIGN
20′ X 8′
TC-12.31 DES. 12
STA. 130+50

Batavia
UC Clermont 5
5

NO WORK

RIGHT LANE
MUST EXIT

R3-33-78
STA. 133+50

S21

MEET PHASE 7 MARKINGS
STA. 133+95

Glen Este
Withamsville Rd

S22

Glen Este
Withamsville Rd

REMOVE AND RELOCATE
ON NEW BEAM SUPPORTS
STA. 135+00

DTD1 12″

ELW9 6″

LL9 6″

LL10 6″

ONLY ONLY ONLY ONLY

R4

NOTE:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.

3. FOR SIGN ELEVATION VIEW OF CANTILEVER SIGN, SEE SHEET 543

4. FOR SIGN ELEVATION VIEW OF BEAM MOUNTED SIGN, SEE SHEET 544

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

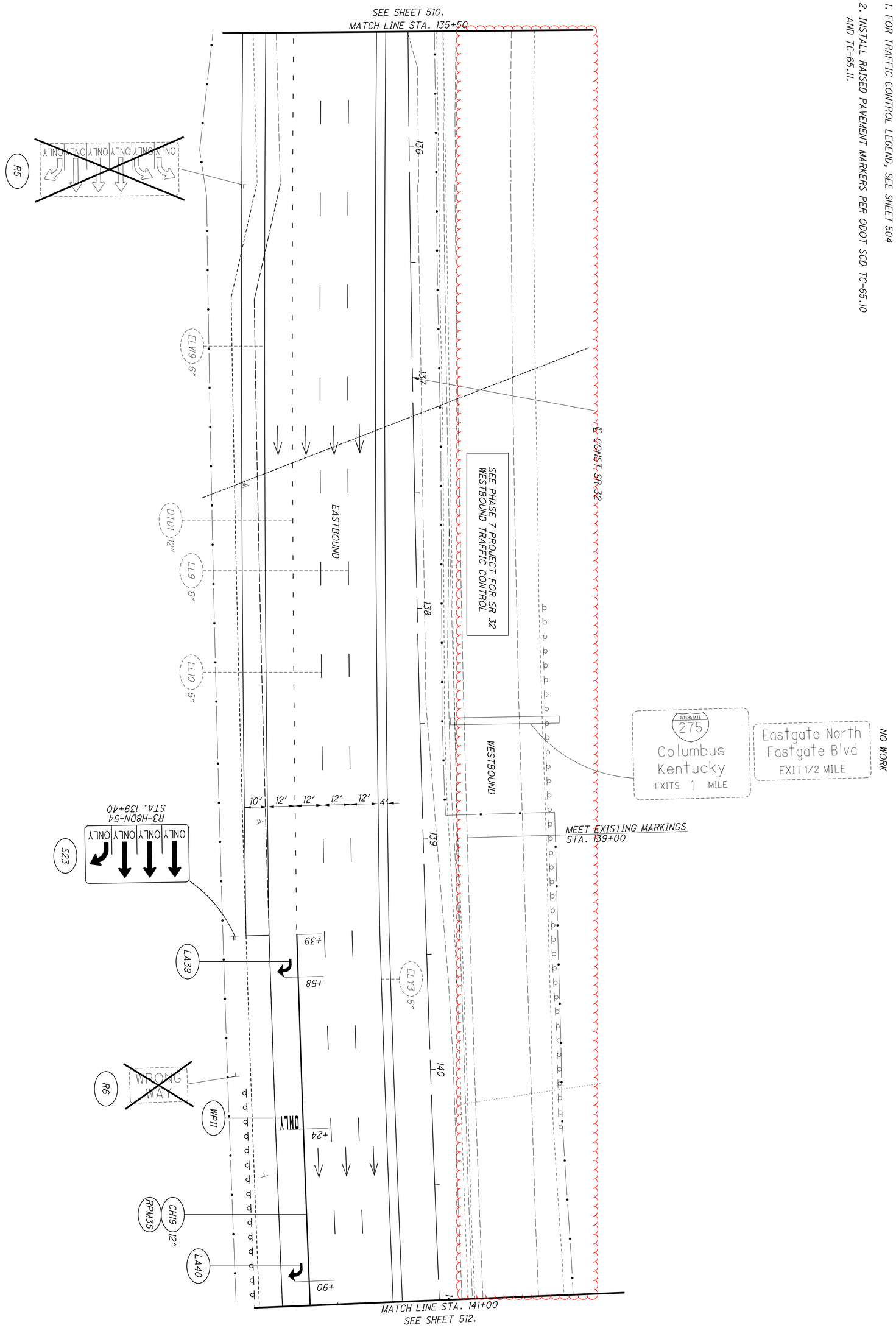
TRAFFIC CONTROL PLAN - SR 32
STA. 130+00 TO STA. 135+50

CLE-32-3.50
(PHASE 5)

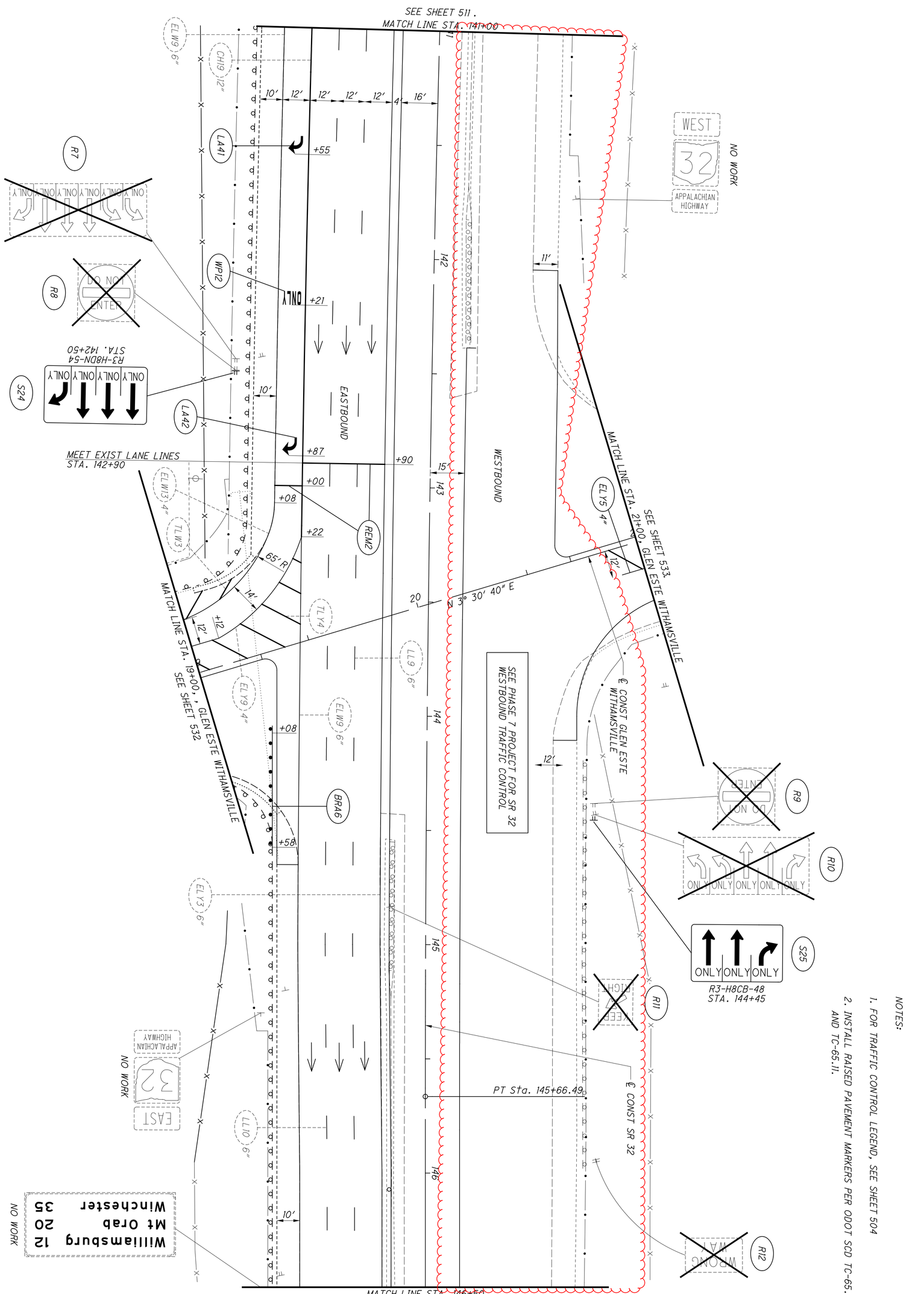
510
736

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.



511 / 736	CLE-32-3.50 (PHASE 5)	TRAFFIC CONTROL PLAN - SR 32 STA. 135+50 TO STA. 141+00	CALCULATED ACW / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET



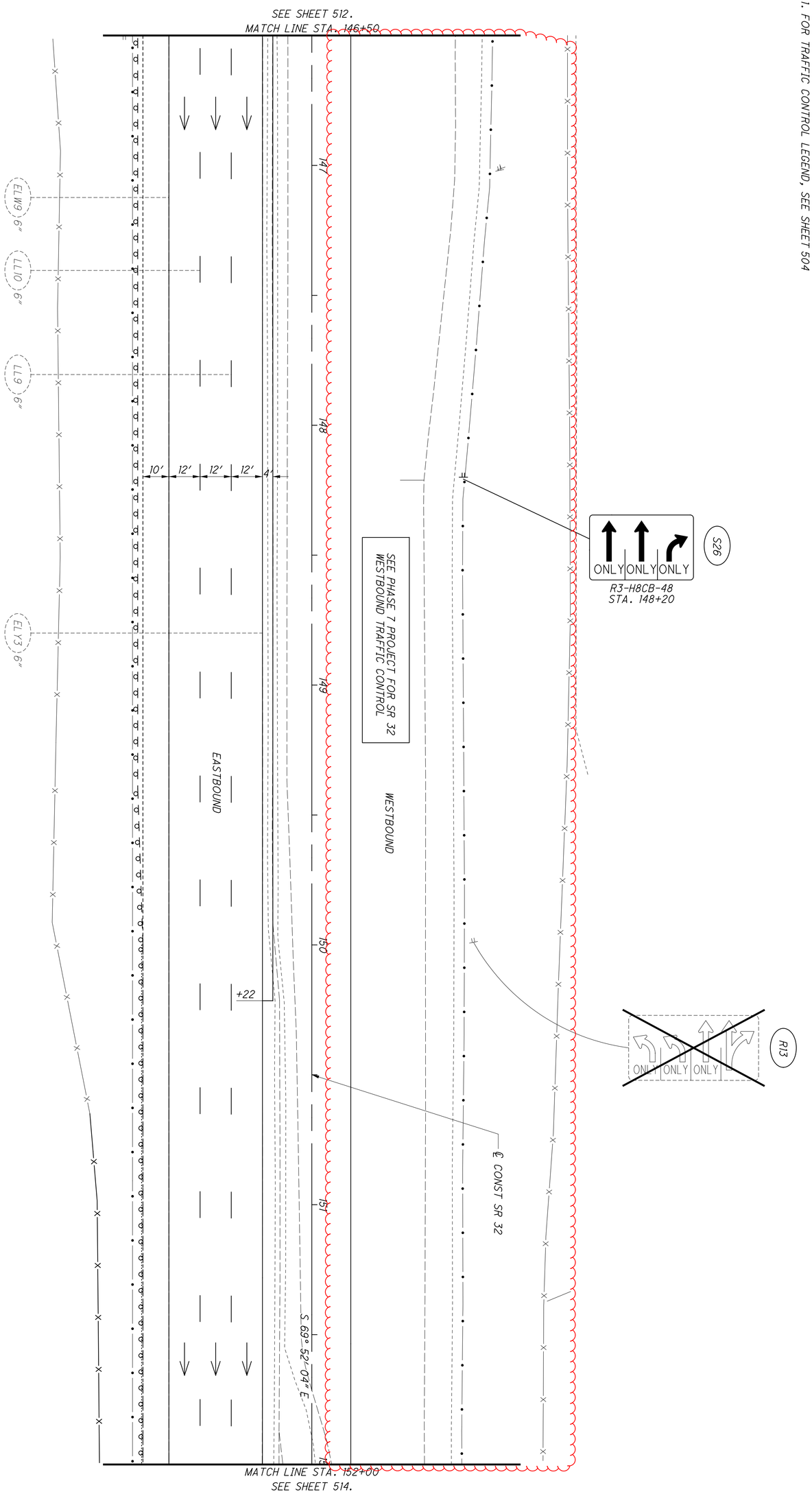
NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.

512 / 736	CLE-32-3.50 (PHASE 5)	TRAFFIC CONTROL PLAN - SR 32 STA. 141+00 TO STA. 146+50	CALCULATED ACW / CHECKED WAA	HORIZONTAL SCALE IN FEET 0 10 20 40

NOTES:

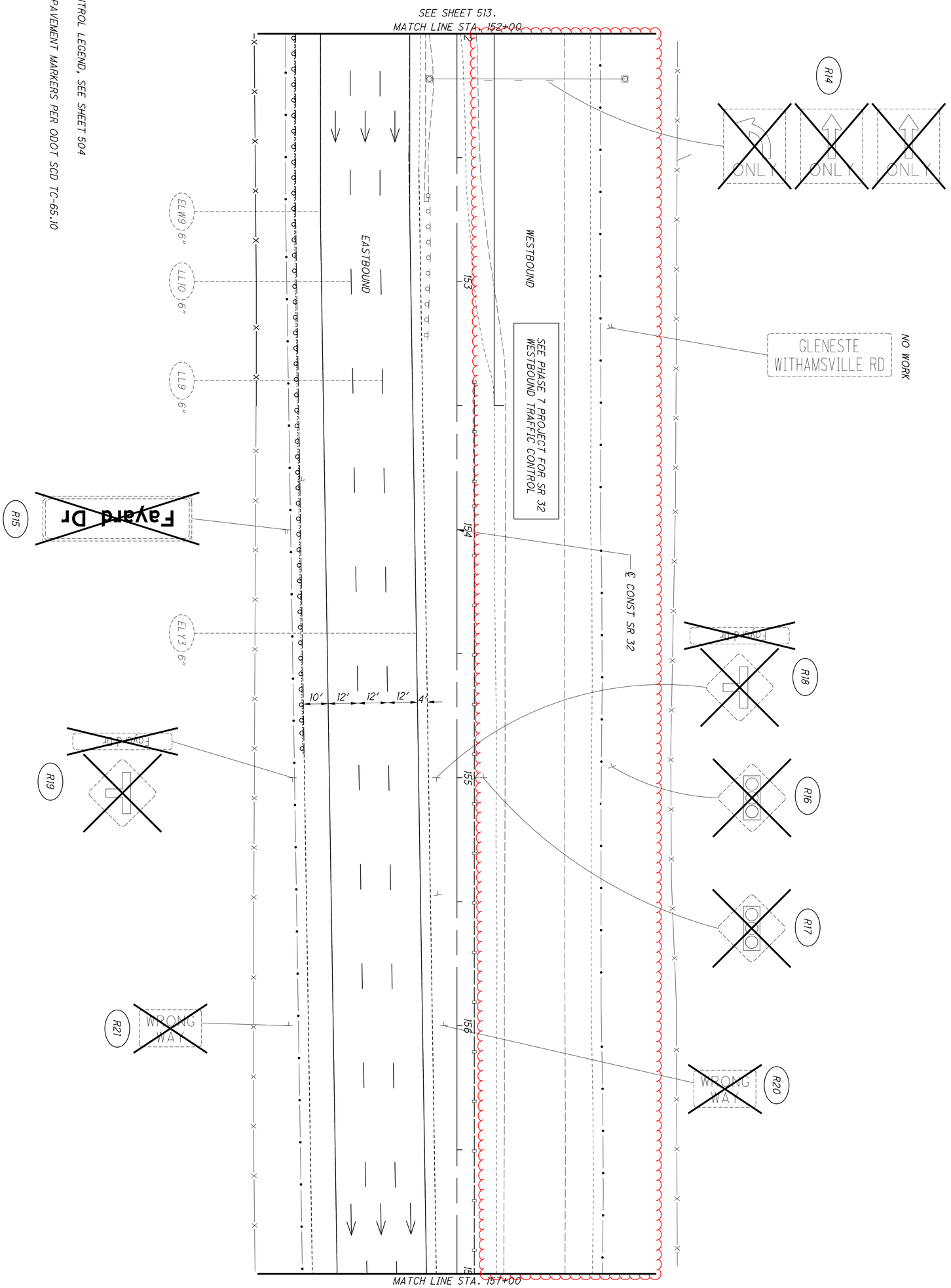
1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504



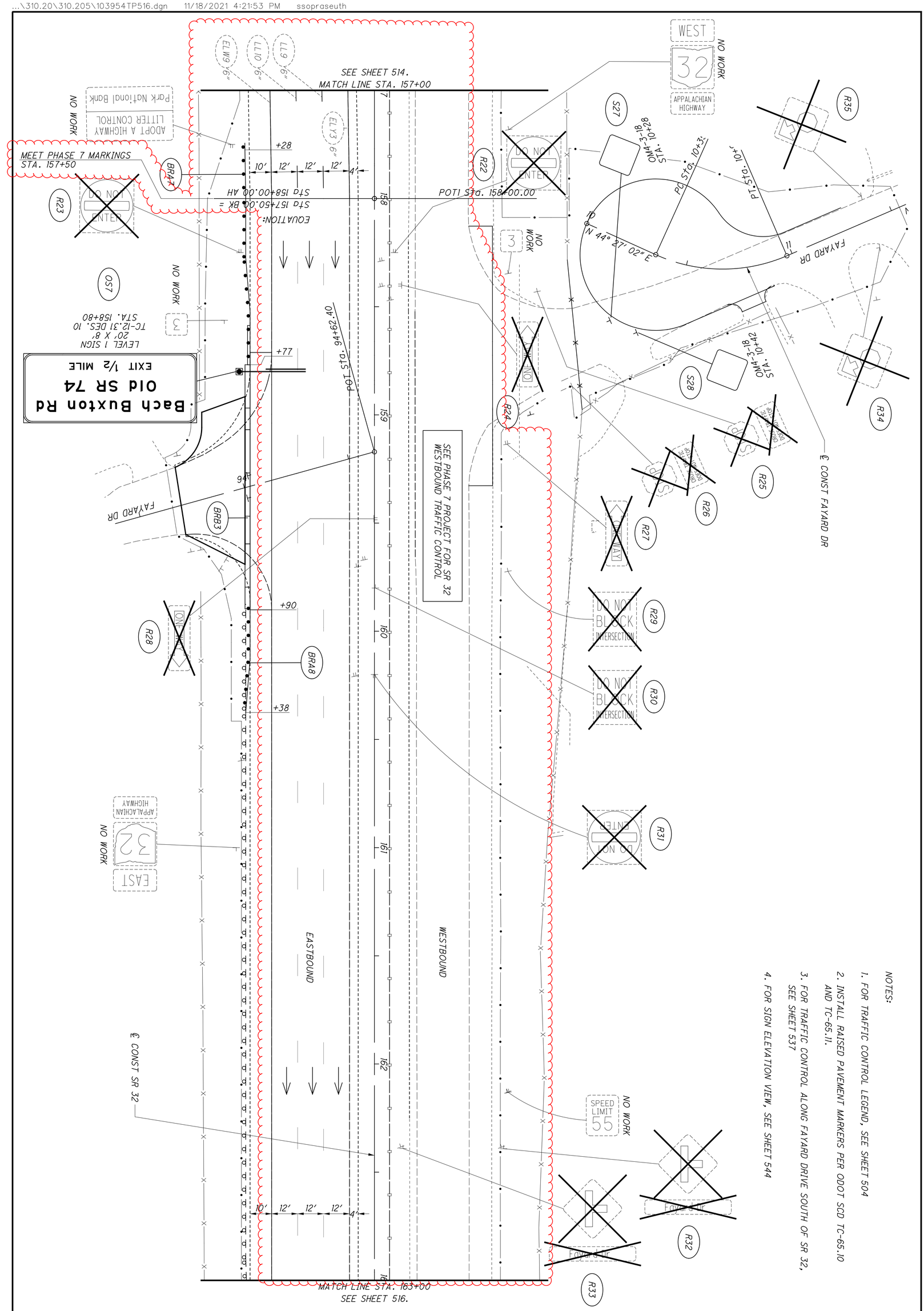
513 / 736	CLE-32-3.50 (PHASE 5)	TRAFFIC CONTROL PLAN - SR 32 STA. 146+50 TO STA. 152+00	CALCULATED ACW / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.



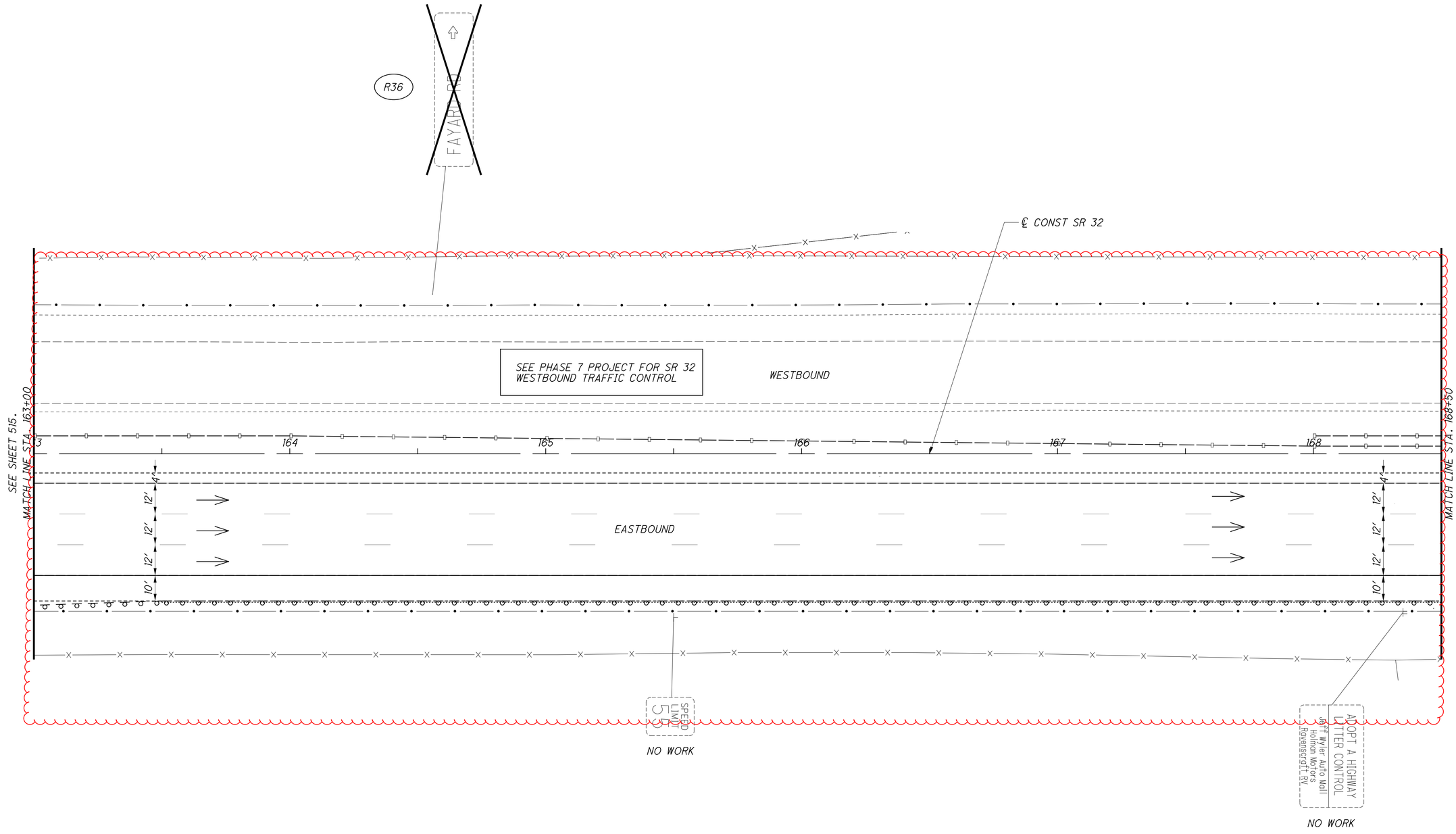
514 / 736	CLE-32-3.50 (PHASE 5)	TRAFFIC CONTROL PLAN - SR 32 STA. 152+00 TO STA. 157+00	CALCULATED ACW / CHECKED WAA	0 20 / 10 40 HORIZONTAL SCALE IN FEET



NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.
3. FOR TRAFFIC CONTROL ALONG FAYARD DRIVE SOUTH OF SR 32, SEE SHEET 537
4. FOR SIGN ELEVATION VIEW, SEE SHEET 544

515 / 736	CLE-32-3.50 (PHASE 5)	TRAFFIC CONTROL PLAN - SR 32 STA. 157+00 TO STA. 163+00	CALCULATED ACW / CHECKED WAA	0 20 / 10 40 HORIZONTAL SCALE IN FEET



NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 163+00 TO STA. 168+50

CLE-32-3.50
(PHASE 5)

516
736

NO WORK

Eastgate Blvd
EXIT 1 MILE

R38

WRONG WAY

R40

DO NOT ENTER

℄ CONST SR 32

SEE PHASE 7 PROJECT FOR SR 32
WESTBOUND TRAFFIC CONTROL

WESTBOUND

+90

SEE SHEET 516.
MATCH LINE STA. 168+50

169 170 171 172 173

SEE SHEET 518.
MATCH LINE STA. 174+00

12' 12' 12' 4'

12' 12' 12' 4'

EASTBOUND

+73

10'

10'

ONE WAY

ONE WAY

ONE WAY

R37

WRONG WAY

R39

BRA9

DO NOT ENTER

R41

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.

N

0 10 20 40
HORIZONTAL SCALE IN FEET

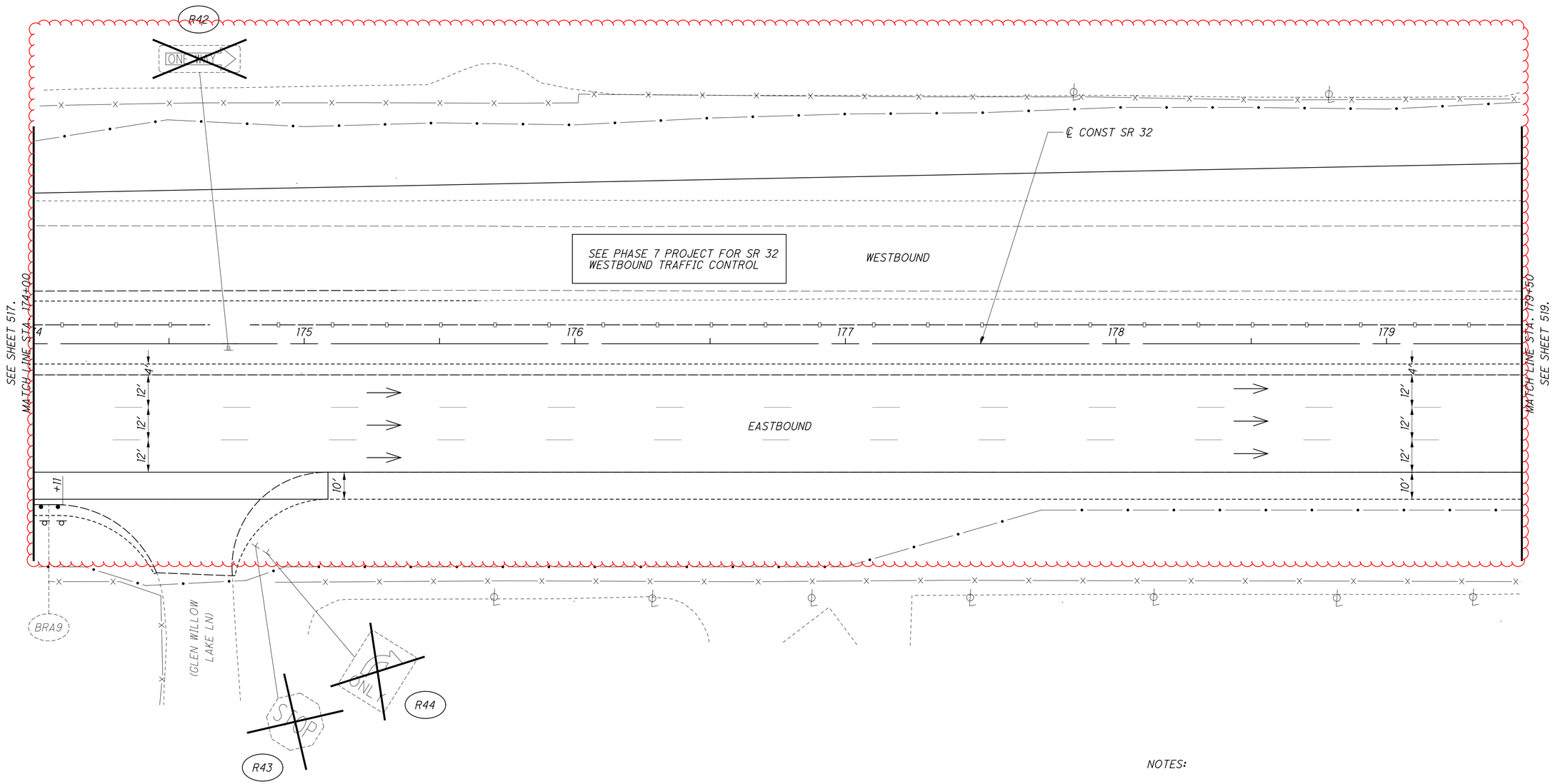
CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 168+50 TO STA. 174+00

CLE-32-3.50
(PHASE 5)

517
736

..\310.20\310.205\103954TP518.dgn 11/18/2021 4:22:07 PM ssopraseuth



NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.

N

0 10 20 40
HORIZONTAL SCALE IN FEET

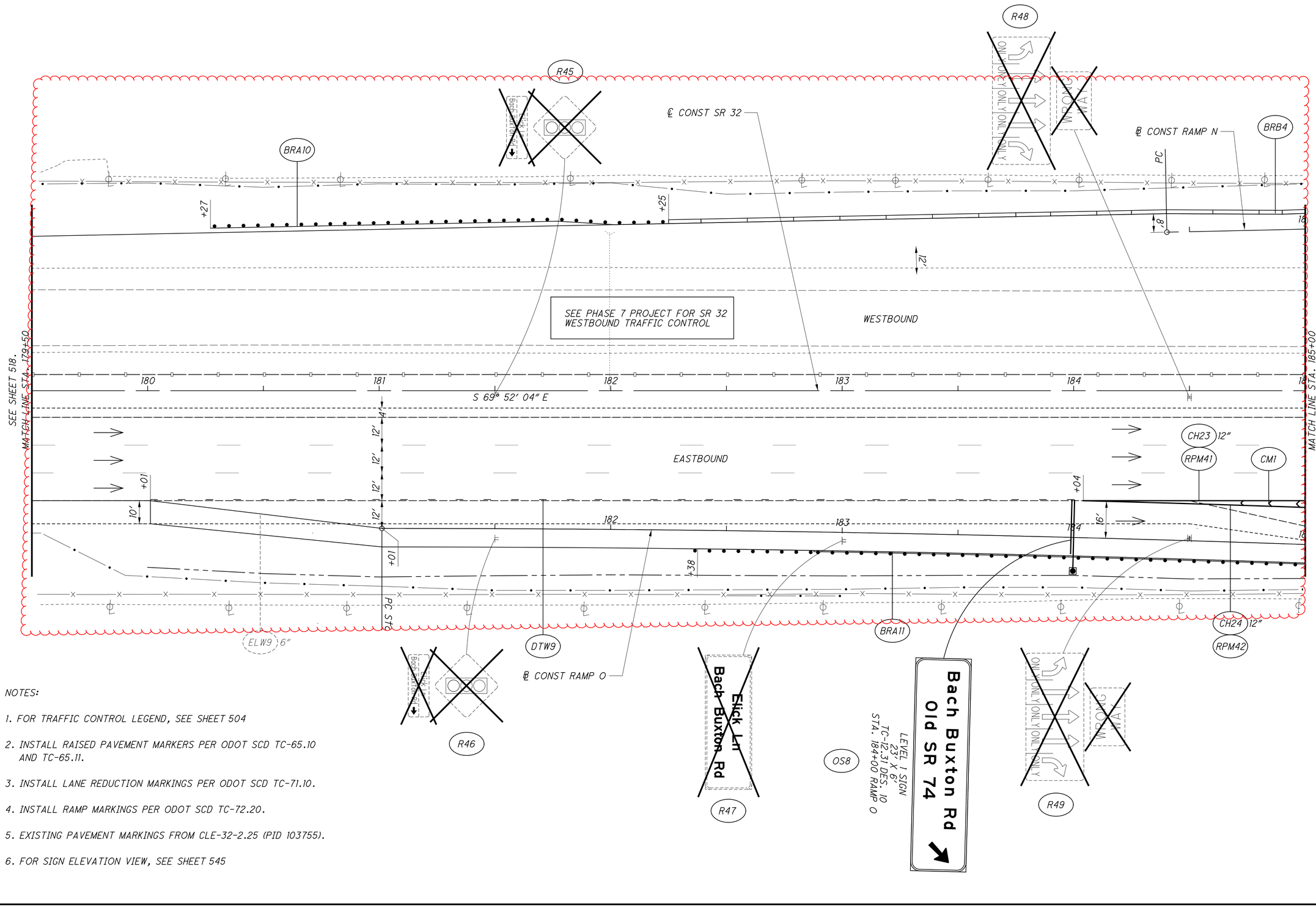
CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 174+00 TO STA. 179+50

CLE-32-3.50
(PHASE 5)

518
736

..\310.20\310.205\103954TP519.dgn 11/18/2021 4:22:15 PM ssoprasetuth



NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.
3. INSTALL LANE REDUCTION MARKINGS PER ODOT SCD TC-71.10.
4. INSTALL RAMP MARKINGS PER ODOT SCD TC-72.20.
5. EXISTING PAVEMENT MARKINGS FROM CLE-32-2.25 (PID 103755).
6. FOR SIGN ELEVATION VIEW, SEE SHEET 545

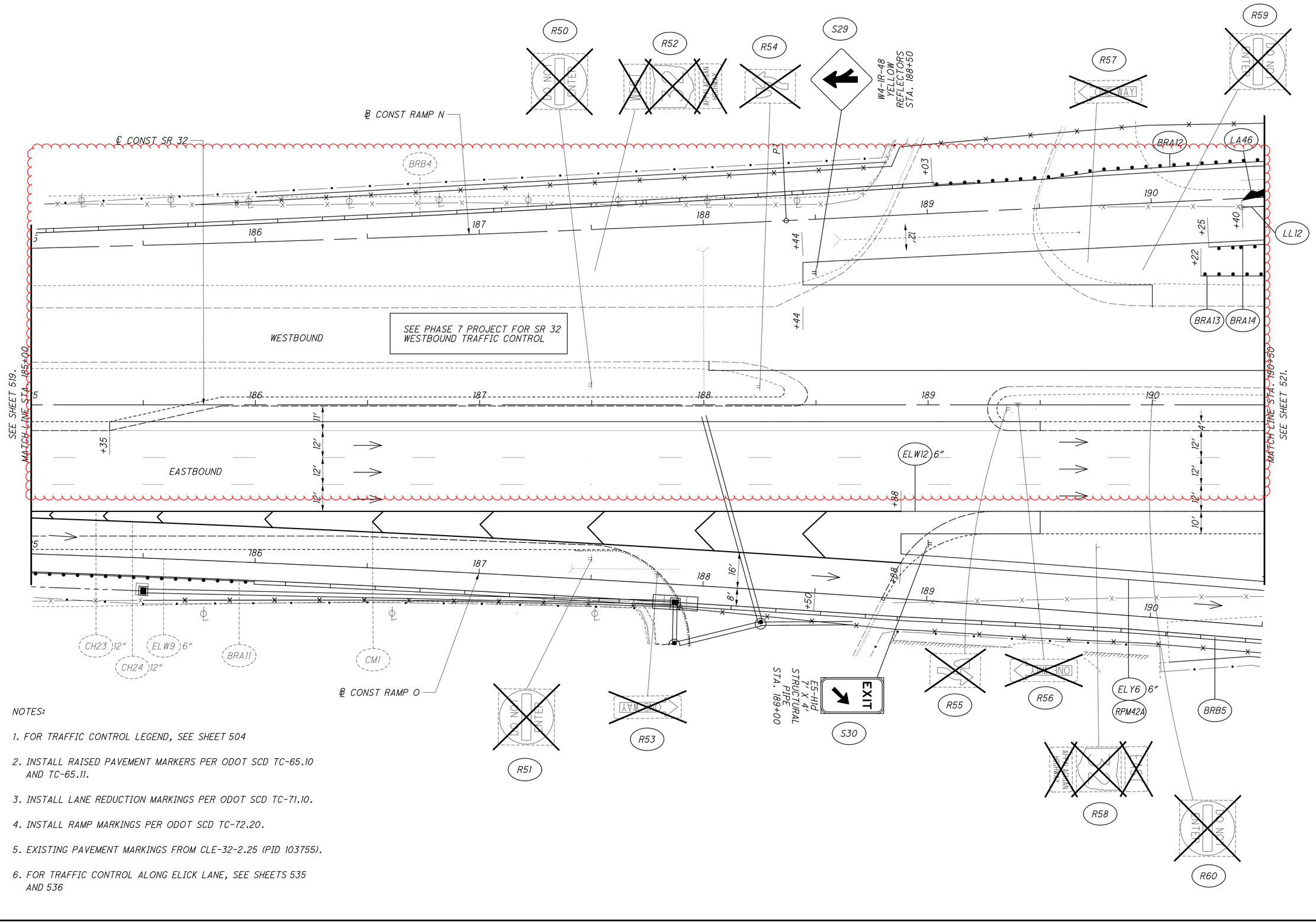
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 179+50 TO STA. 185+00

CLE-32-3.50
(PHASE 5)

519
736



NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.
3. INSTALL LANE REDUCTION MARKINGS PER ODOT SCD TC-71.10.
4. INSTALL RAMP MARKINGS PER ODOT SCD TC-72.20.
5. EXISTING PAVEMENT MARKINGS FROM CLE-32-2.25 (PID 103755).
6. FOR TRAFFIC CONTROL ALONG ELICK LANE, SEE SHEETS 535 AND 536

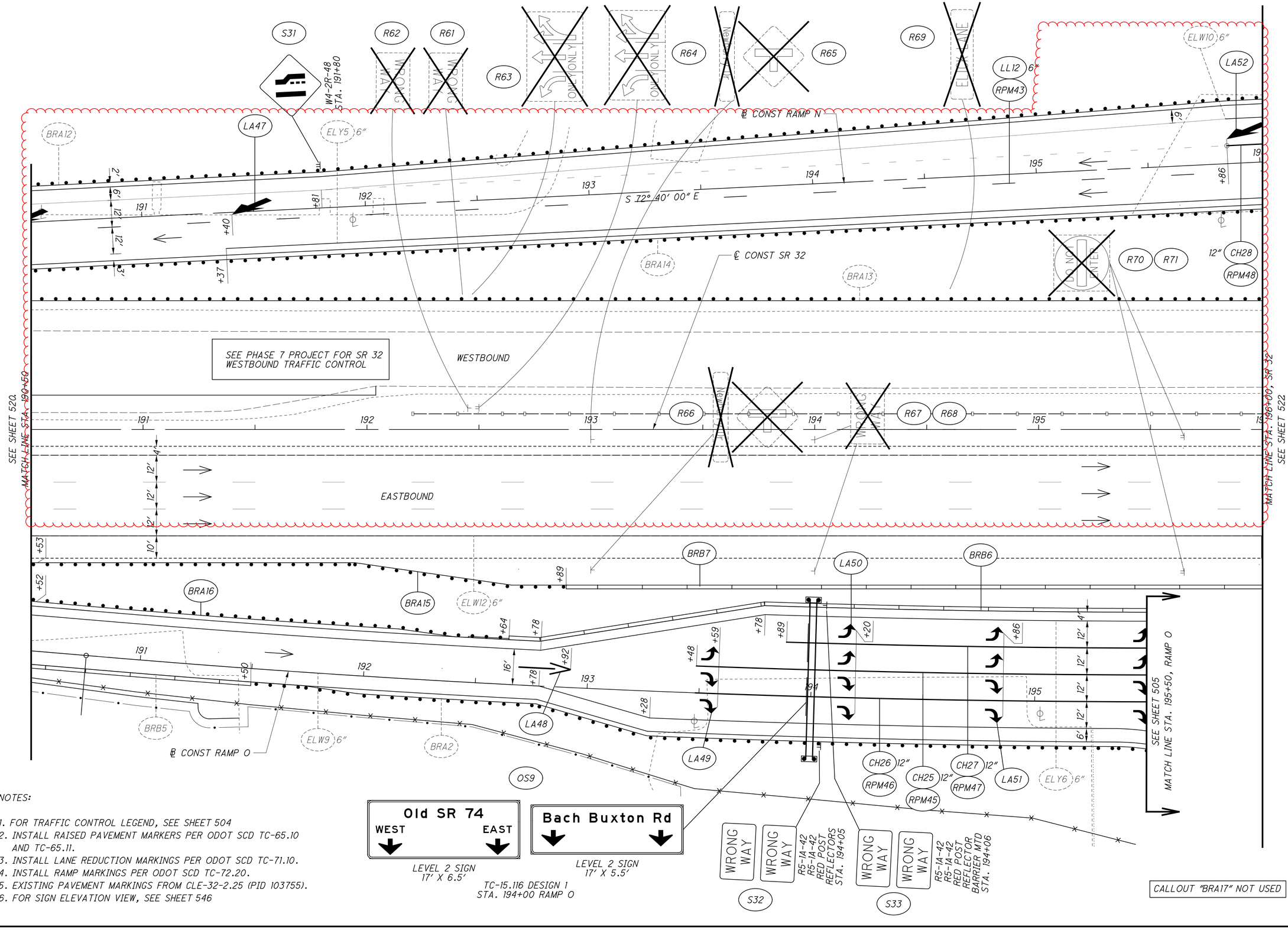
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 185+00 TO STA. 190+50

CLE-32-3.50
(PHASE 5)

520
736



NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.
3. INSTALL LANE REDUCTION MARKINGS PER ODOT SCD TC-71.10.
4. INSTALL RAMP MARKINGS PER ODOT SCD TC-72.20.
5. EXISTING PAVEMENT MARKINGS FROM CLE-32-2.25 (PID 103755).
6. FOR SIGN ELEVATION VIEW, SEE SHEET 546

CALLOUT "BRA17" NOT USED

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 190+50 TO STA. 196+00

CLE-32-3.50
(PHASE 5)

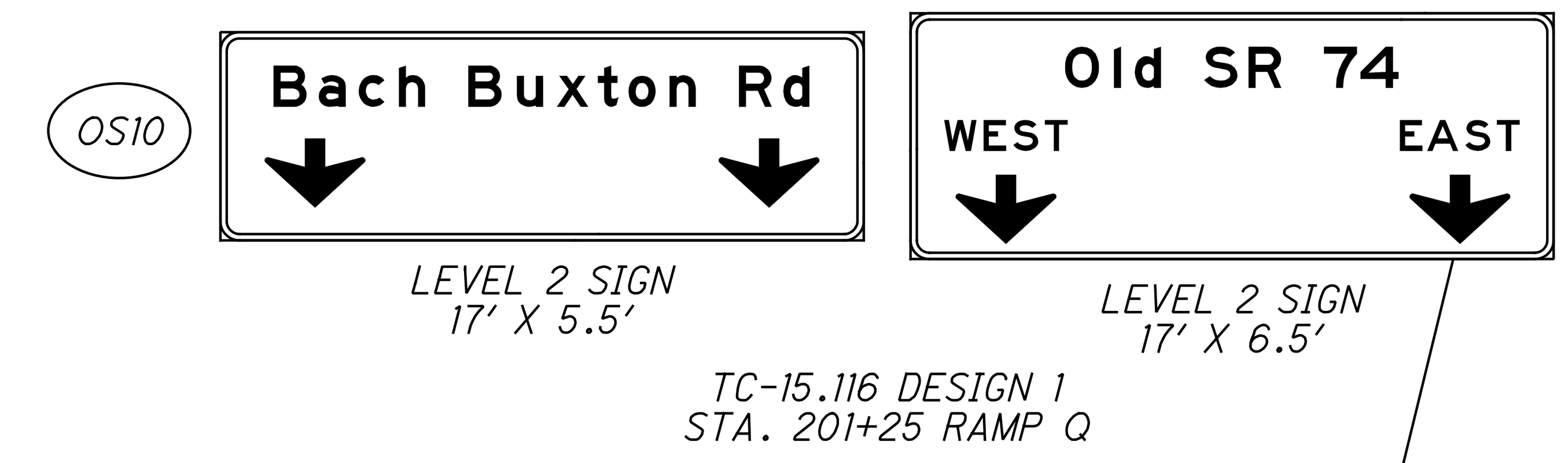
521
736

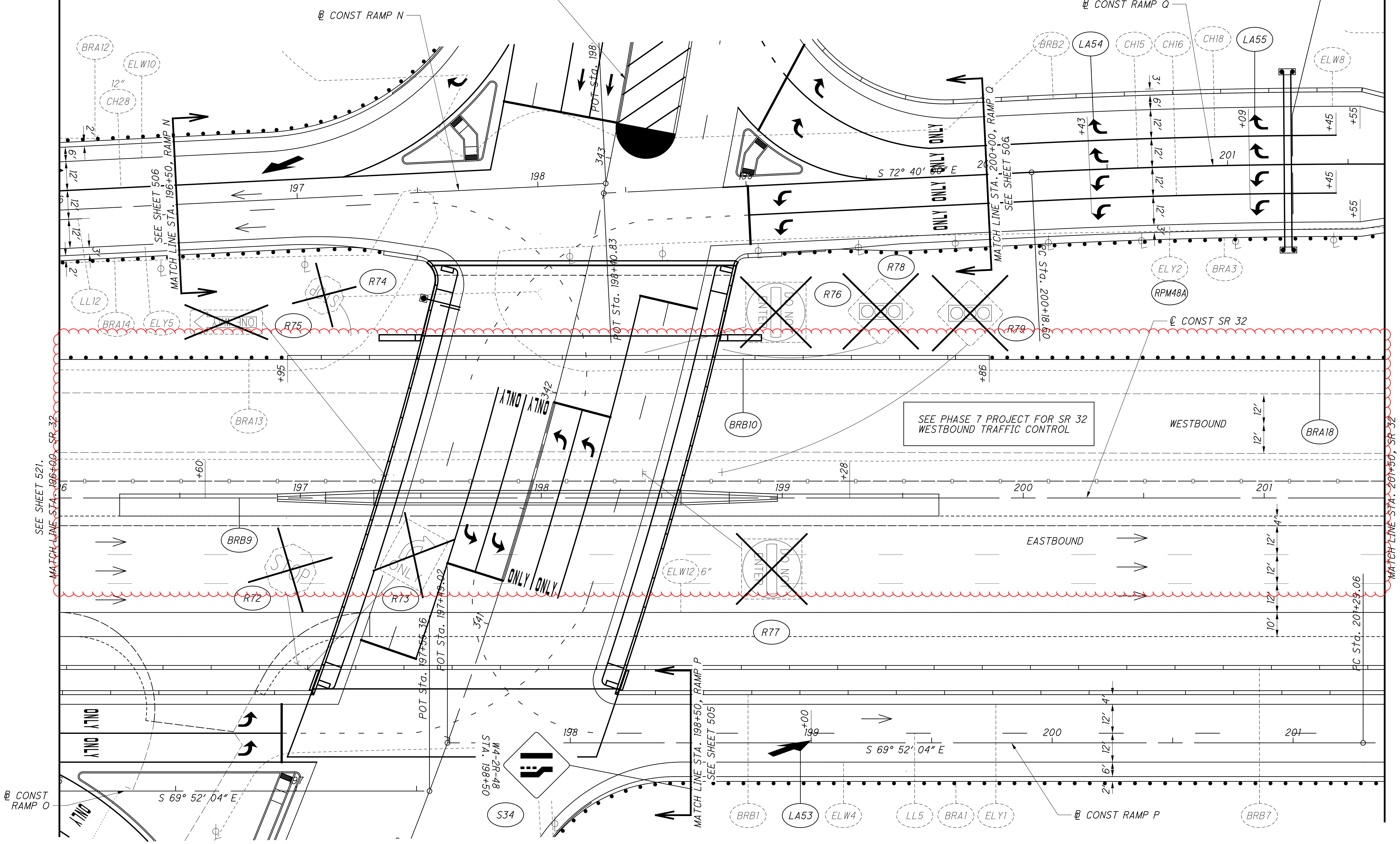
\310.20\310.205\103954TP522.dgn 11/18/2021 4:22:35 PM ssopraseuth

CALLOUT "BRB8" NOT USED

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.
3. INSTALL LANE REDUCTION MARKINGS PER ODOT SCD TC-71.10.
4. INSTALL RAMP MARKINGS PER ODOT SCD TC-72.20.
5. EXISTING PAVEMENT MARKINGS FROM CLE-32-2.25 (PID 103755).
6. FOR SIGN ELEVATION VIEW, SEE SHEET 547





℄ CONST BACH BUXTON RD
℄ CONST RAMP N
℄ CONST RAMP Q
℄ CONST SR 32
℄ CONST RAMP P
℄ CONST RAMP O
MATCH LINE STA. 196+50, RAMP N
SEE SHEET 506
MATCH LINE STA. 200+00, RAMP Q
SEE SHEET 506
MATCH LINE STA. 196+00, SR 32
SEE SHEET 521.
MATCH LINE STA. 201+50, SR 32
SEE SHEET 523
MATCH LINE STA. 198+50, RAMP P
SEE SHEET 505
SEE PHASE 7 PROJECT FOR SR 32 WESTBOUND TRAFFIC CONTROL
WESTBOUND
EASTBOUND
S 72° 40' 00" E
S 69° 52' 04" E
POT Sta. 198+40.83
PC Sta. 200+18.60
PC Sta. 201+29.06
POT Sta. 197+55.36
POT Sta. 197+49.02
W4-2R-48
STA. 198+50
ONLY
BRA12
ELW10
CH28
LL12
BRA14
ELY5
R75
R74
R72
R73
BRA13
BRB9
BRB10
R76
R77
R78
R79
ELW12 6"
BRB2
LA54
CH15
CH16
CH18
LA55
ELW8
ELY2
BRA3
RPM48A
BRA18
S34
BRB1
LA53
ELW4
LL5
BRA1
ELY1
BRB7

CALCULATED ACW
CHECKED WAA

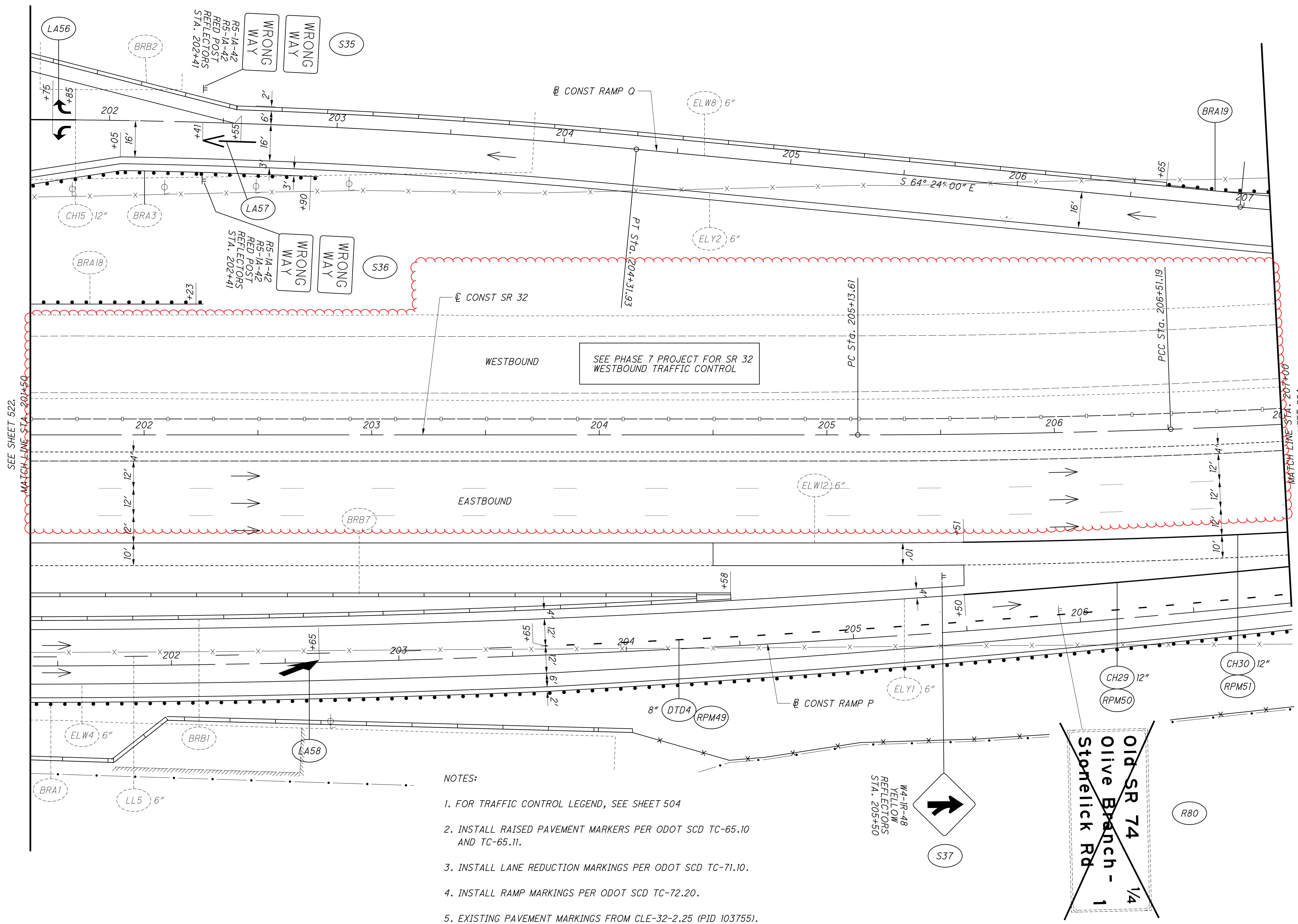
HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL PLAN - SR 32
STA. 196+00 TO STA. 201+50

CLE-32-3.50 (PHASE 5)

522
736

ssopraseuth 11/18/2021 4:22:43 PM ...\310.20\310.205\103954TP523.dgn



LA56
BRB2
R5-1A-42
R5-1A-42
RED POST
REFLECTORS
STA. 202+41
WRONG WAY
WRONG WAY
S35
℄ CONST RAMP Q
ELW8 6"
BRA19
CH15 12"
BRA3
LA57
ELY2 6"
S 64° 24' 00" E
R5-1A-42
R5-1A-42
RED POST
REFLECTORS
STA. 202+41
WRONG WAY
WRONG WAY
S36
BRA18
PT Sta. 204+31.93
℄ CONST SR 32
PC Sta. 205+13.61
PCC Sta. 206+51.19
WESTBOUND
SEE PHASE 7 PROJECT FOR SR 32
WESTBOUND TRAFFIC CONTROL
SEE SHEET 522
MATCH LINE STA. 201+50
MATCH LINE STA. 207+00
SEE SHEET 524
EASTBOUND
ELW12 6"
BRB7
ELY1 6"
℄ CONST RAMP P
8" DTD4
RPM49
CH29 12"
RPM50
CH30 12"
RPM51
ELW4 6"
BRB1
LA58
BRA1
LL5 6"
W4-1R-48
YELLOW
REFLECTORS
STA. 205+50
S37
Old SR 74
Olive Branch - Stonelick Rd
1/4
1
R80

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.
3. INSTALL LANE REDUCTION MARKINGS PER ODOT SCD TC-71.10.
4. INSTALL RAMP MARKINGS PER ODOT SCD TC-72.20.
5. EXISTING PAVEMENT MARKINGS FROM CLE-32-2.25 (PID 103755).

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 201+50 TO STA. 207+00

CLE-32-3.50 (PHASE 5)

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.

3. INSTALL LANE REDUCTION MARKINGS PER ODOT SCD TC-71.10.

4. INSTALL RAMP MARKINGS PER ODOT SCD TC-72.20.

5. EXISTING PAVEMENT MARKINGS FROM CLE-32-2.25 (PID 103755).

6. FOR ELEVATION VIEW OF CANTILEVER SIGN, SEE SHEET 545

...\310.20\310.205\103954TP525.dgn 11/18/2021 4:23:01 PM ssopraseuth

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 207+00 TO STA. 212+50

CLE-32-3.50
(PHASE 5)

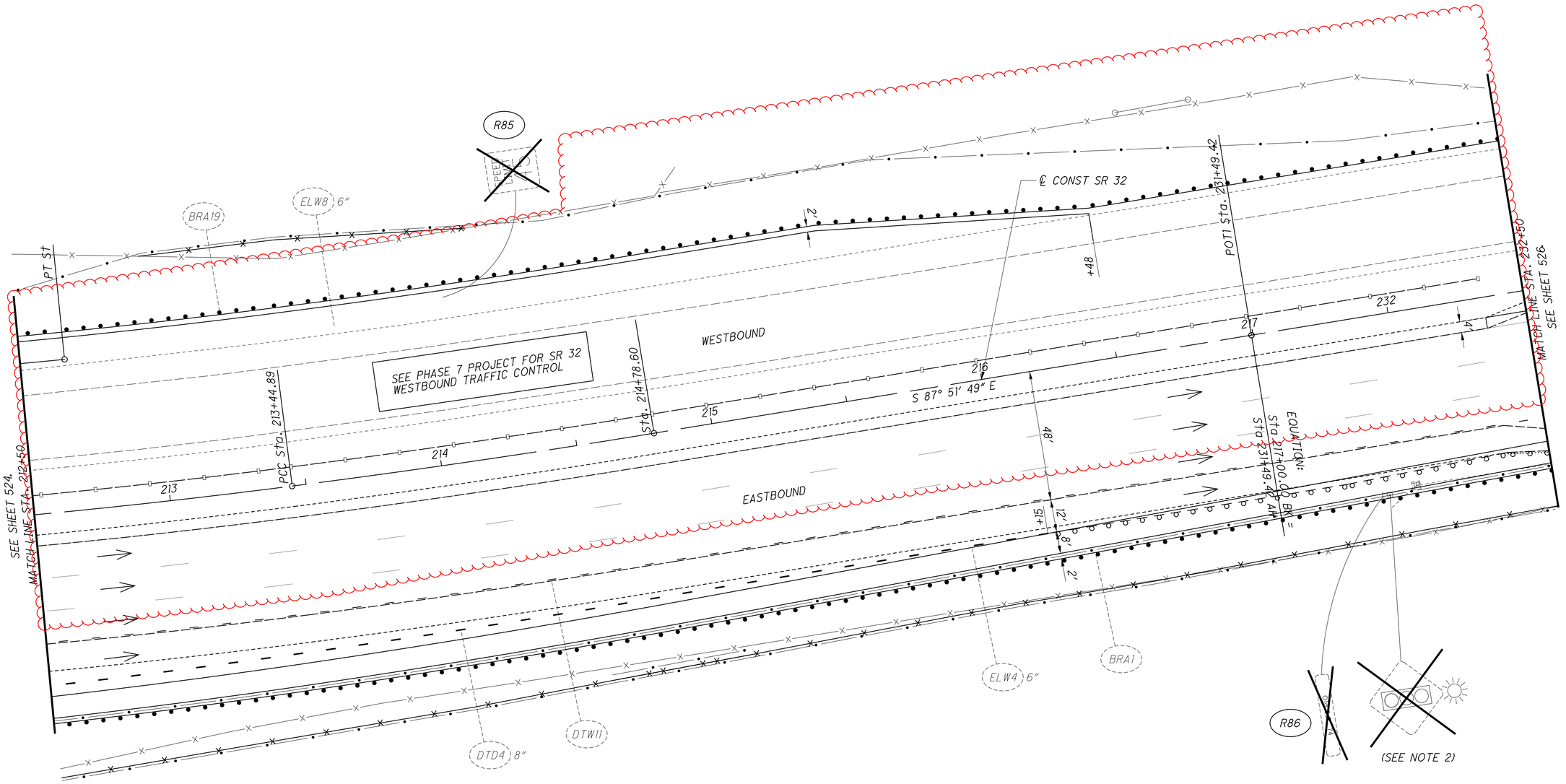
524
736

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. FOR REMOVAL OF EXISTING SIGN FLASHER ASSEMBLY WITH FLASHING WARNING BEACON, SEE SIGNAL REMOVAL PLANS.

3. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 212+50 (BK) TO STA. 232+50 (AH)

CLE-32-3.50
(PHASE 5)

525
736

...\310.20\310.205\103954TP526.dgn 11/18/2021 4:23:12 PM ssopraseuth

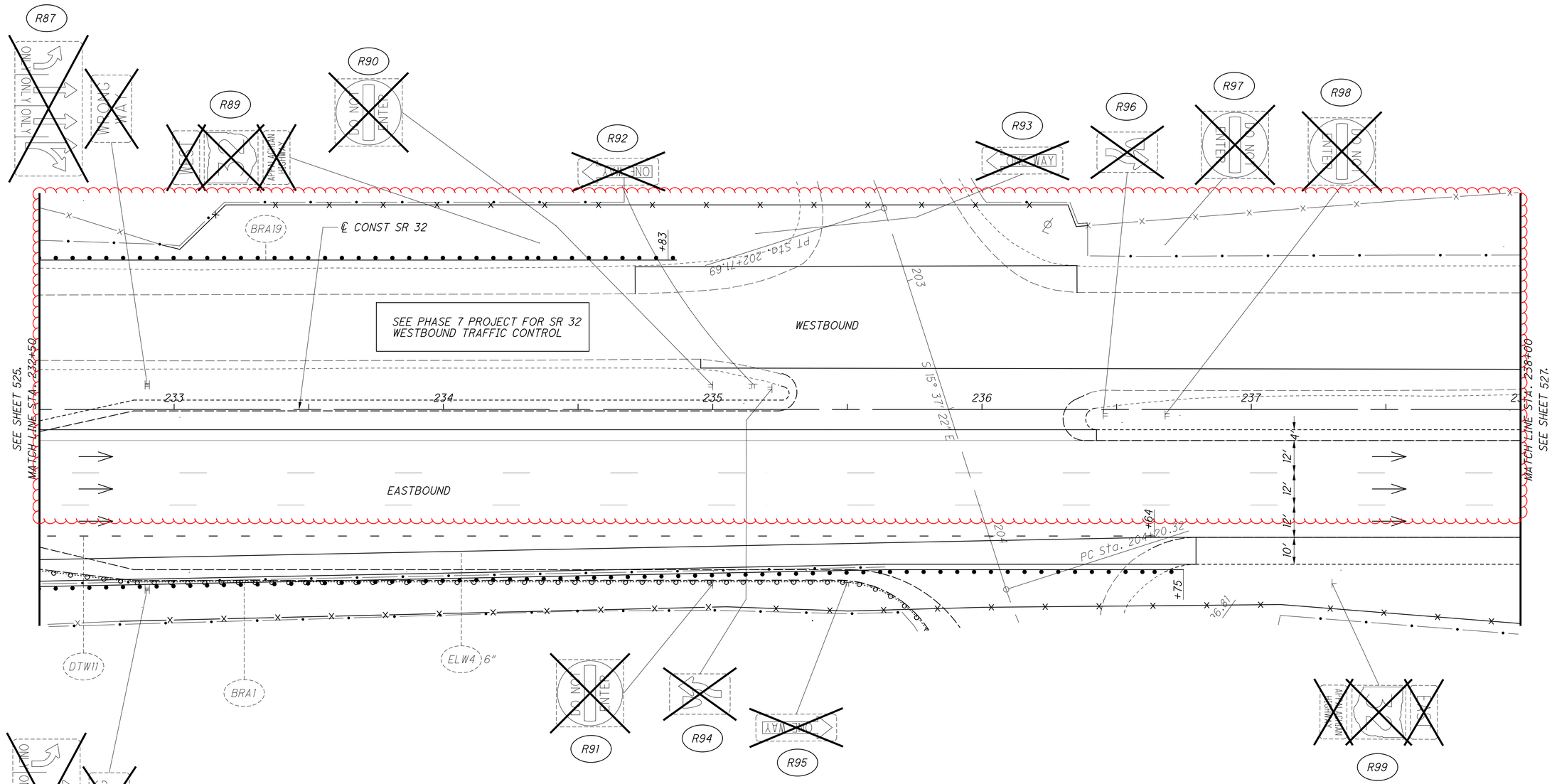
NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. INSTALL RAISED PAVEMENT MARKERS PER ODOT SCD TC-65.10 AND TC-65.11.

3. FOR TRAFFIC CONTROL ALONG OLD SR 74 NORTH OF SR 32, SEE SHEET 538

4. FOR TRAFFIC CONTROL ALONG OLD SR 74 SOUTH OF SR 32, SEE SHEET 539



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 232+50 TO STA. 238+00

CLE-32-3.50
(PHASE 5)

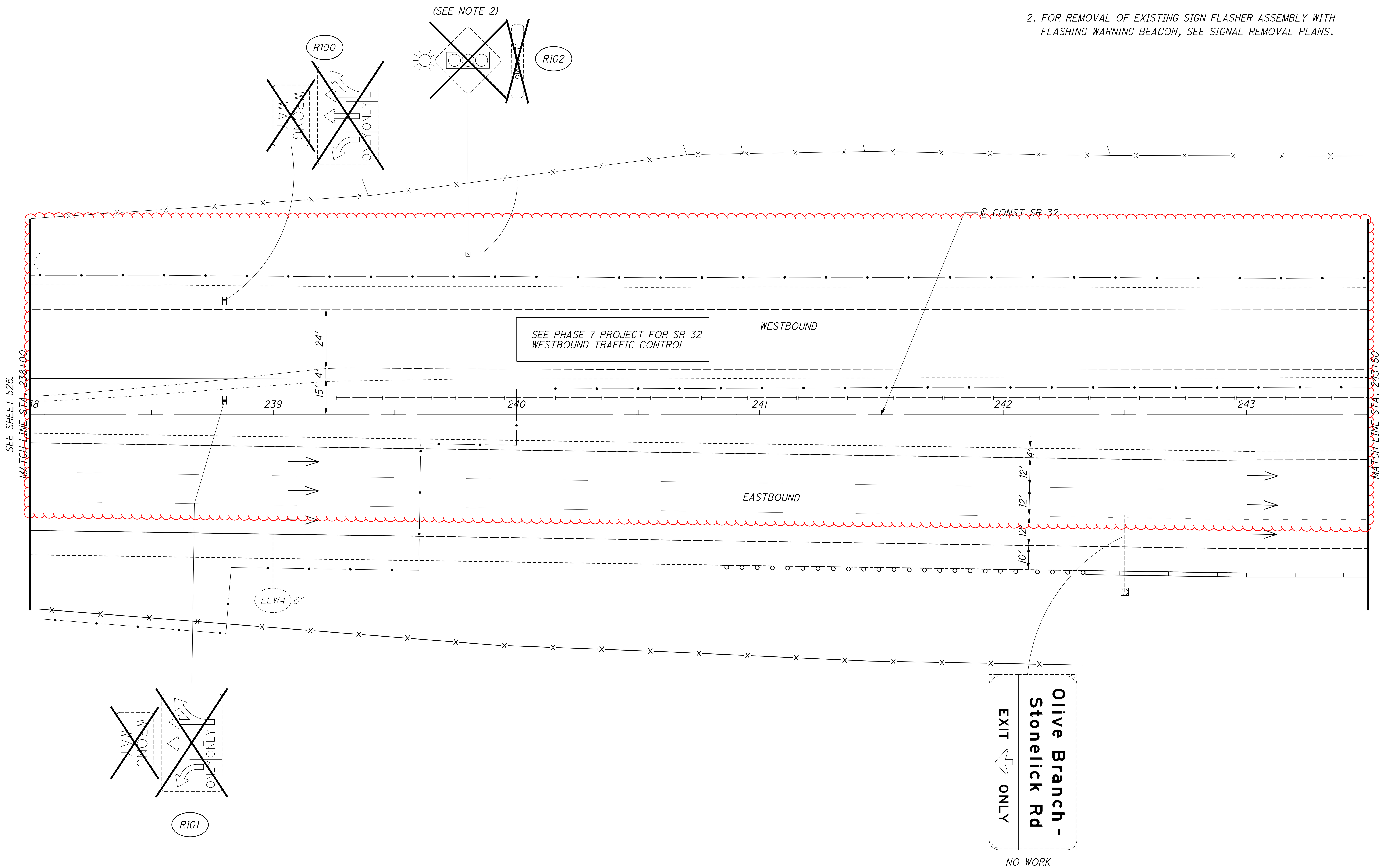
526
736

\310.20\310.205\103954TP527.dgn 11/18/2021 4:23:21 PM ssoprosseuth

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504

2. FOR REMOVAL OF EXISTING SIGN FLASHER ASSEMBLY WITH FLASHING WARNING BEACON, SEE SIGNAL REMOVAL PLANS.



HORIZONTAL SCALE IN FEET
0 10 20 40

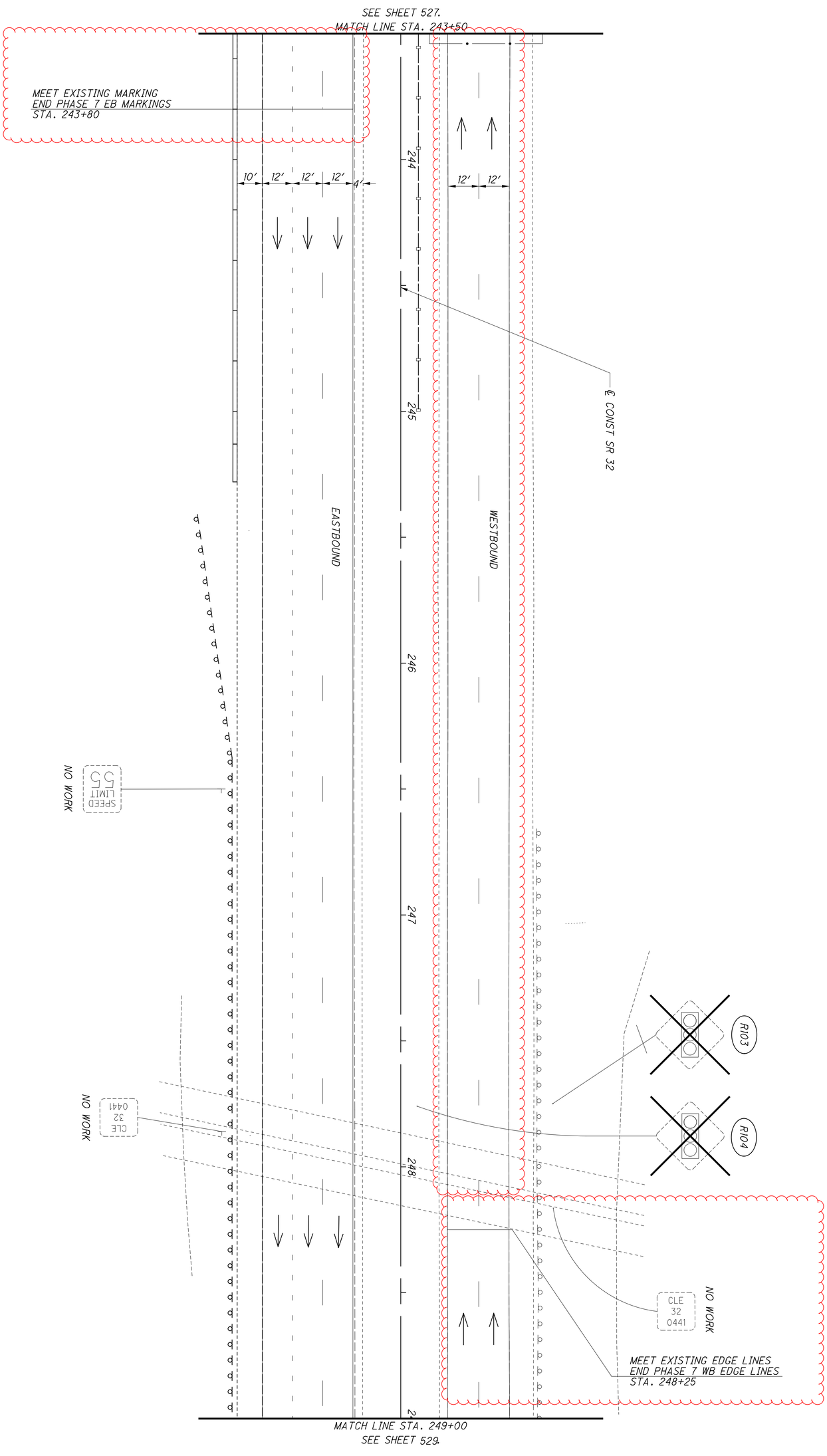
CALCULATED ACW
CHECKED WAA

TRAFFIC CONTROL PLAN - SR 32
STA. 238+00 TO STA. 243+50

CLE-32-3.50 (PHASE 5)

NOTES:

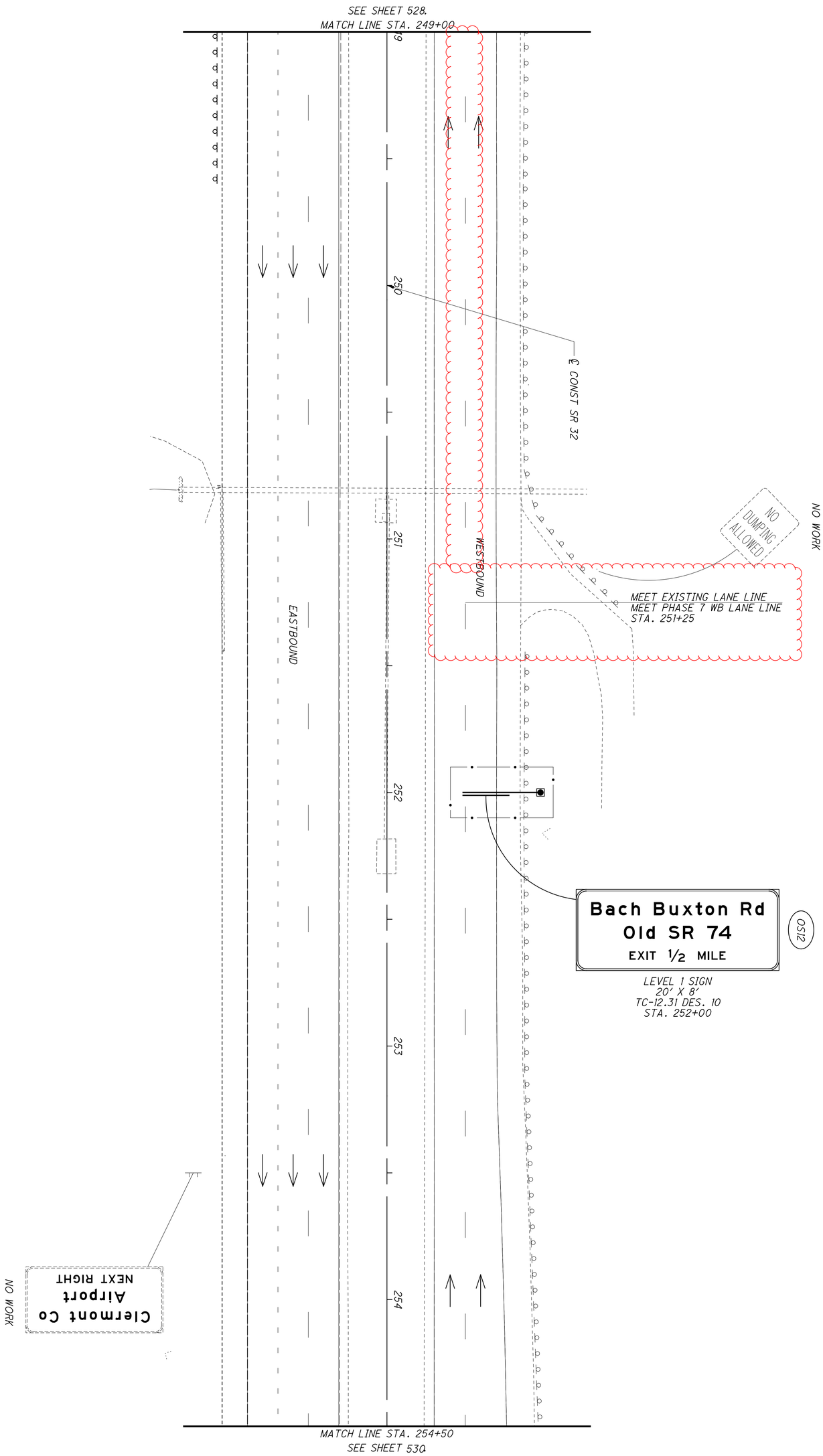
1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504



528 / 736	CLE-32-3.50 (PHASE 5)	TRAFFIC CONTROL PLAN - SR 32 STA. 243+50 TO STA. 249+00	CALCULATED ACW / CHECKED WAA	0 20 / 10 40 HORIZONTAL SCALE IN FEET

NOTES:

1. FOR TRAFFIC CONTROL LEGEND, SEE SHEET 504
2. FOR SIGN ELEVATION VIEW, SEE SHEET 548



529 / 736	CLE-32-3.50 (PHASE 5)	TRAFFIC CONTROL PLAN - SR 32 STA. 249+00 TO STA. 254+50	CALCULATED ACW / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET

ITEM 632, REMOVAL OF TRAFFIC SIGNAL INSTALLATION FOR STORAGE, AS PER PLAN

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING VEHICULAR SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, CONDUIT, PULL BOXES, ETC., SHALL BE REMOVED IN ACCORDANCE WITH CMS 632.26 AND AS INDICATED ON THE PLANS. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR STORED ON THE PROJECT FOR SALVAGE BY ODOT DISTRICT 8 IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

FOR ODOT MAINTAINED TRAFFIC SIGNALS, STORE 2070 CONTROLLER UNITS AND CABINETS, UPS UNITS, INTERCONNECTION/COMMUNICATION EQUIPMENT, EMERGENCY VEHICLE PREEMPTION, GPS AND VEHICLE DETECTION EQUIPMENT ON THE PROJECT FOR SALVAGE BY ODOT. STORE WITH CARE ANY ITEMS TO BE RE-USED ON THE PROJECT UNDER SEPERATE PAY ITEMS AS DIRECTED BY THE ENGINEER. ANY STORED ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST TO THE PROJECT.

ANY ITEMS NOT SALVAGED BY ODOT OR REUSED IN THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH OF ITEM 632, REMOVAL OF TRAFFIC SIGNAL INSTALLATION FOR STORAGE, AS PER PLAN.

ITEM 633, CONTROLLER UNIT, TYPE 2070E WITH 2070-1C CPU AND ASC/3 SOFTWARE, AS PER PLAN

THE CONTROLLER UNIT SHALL BE EQUIPMENT MANUFACTURED IN CONFORMANCE TO THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) SPECIFICATIONS TITLES "TRANSPORTATION ELECTRICAL EQUIPMENT SPECIFICATIONS (TEES)." THE CONTROLLER UNIT AND SOFTWARE VERSIONS SHALL BE COMPLIANT WITH THE TRAFFIC AUTHORIZED PRODUCTS (TAP) LIST.

THE CONTROLLER UNIT SHALL INCLUDE THE FOLLOWING:
1. UNIT CHASSIS
2. 2070-1C CPU MODULE (LINUX)
3. 2070-2E FIELD I/O MODULE
4. 2070-3B FRONT PANEL
5. 2070-4A POWER SUPPLY
6. 2070-7A SERIAL COMMUNICATION MODULE

THE CONTROLLER SHALL INCLUDE A TYPE 332 CABINET. THE CONTRACTOR SHALL NOT REASSIGN THE CABINET DETECTOR INPUTS IN ORDER TO REDUCE THE NUMBER OF 2-CHANNEL DETECTOR UNITS SUPPLIED, BUT SHALL USE THE STANDARD CALTRANS INPUT FILE DESIGNATIONS.

ITEM 633, CONTROLLER ITEM, MISC.: CDMA MODEM, FURNISH ONLY

FURNISH A CDMA MODEM, ANTENNA, CABLES, AND ETHERNET CABLE FOR REMOTE WIRELESS CELLULAR COMMUNICATION. FOR NETWORK CONSISTENCY CDMA MODEMS SHALL BE SIERRA WIRELESS (RAVEN X) OR GETWIRELESS (AIRLINK GX400).

THE CDMA MODEM EQUIPMENT SHALL BE DELIVERED TO THE ODOT ITS LAB FOR PROGRAMMING AND INSTALLATION.

ODOT ITS LAB
ATTN: PAUL LUNDSTROM
1605 W. BROAD STREET
COLUMBUS, OH 43223

THE CONTRACTOR SHALL PROVIDE THE MODEM SERIAL NUMBERS AND NECESSARY ESN NUMBERS FOR ODOT TO ESTABLISH WIRELESS SERVICE.

THE DEPARTMENT WILL MEASURE "CONTROLLER ITEM, MISC.: CDMA MODEM, FURNISH ONLY" BY THE NUMBER OF COMPLETE UNITS FURNISHED AND RECEIVED BY THE ODOT ITS LAB.

ITEM 633, UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN

IN ADDITION TO ITEM 633.18 AND 733.09, THE SEPARATE VENTILATED ENCLOSURE SHALL BE FOUNDATION MOUNTED NEXT TO THE PROPOSED CONTROLLER CABINET. THE CABINET SHALL BE BRUSHED ALUMINUM. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH OF ITEM 633, UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN IN PLACE INCLUDING ALL CONNECTIONS, TESTED AND ACCEPTED.

ITEM 633, CONTROLLER WORK PAD, AS PER PLAN

CONTROLLER WORK PAD SHALL BE SIZED TO ACCOMMODATE THE UPS CABINET ON THE SAME WORK PAD. CHANGES TO THE DIMENSIONS OF THE UPS CABINET AND TO THE WORK PAD SHALL REQUIRE THE APPROVAL OF ODOT.

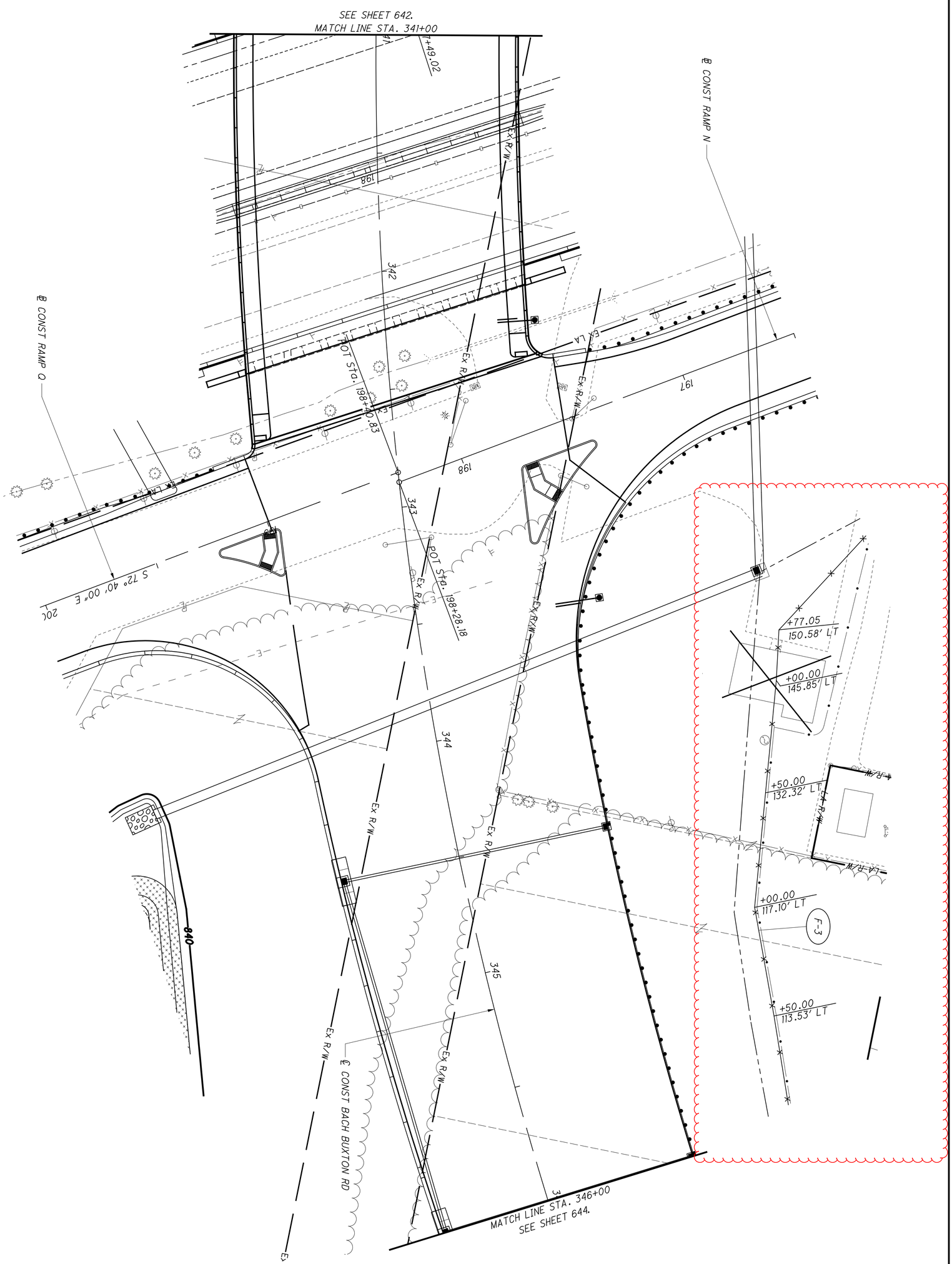
THE TOP OF WORK PADS INSTALLED ADJACENT TO PEDESTRIAN PATHWAYS SHALL BE FLUSH WITH THE PATHWAY. PAYMENT FOR ITEM 633, CONTROLLER WORK PAD, AS PER PLAN, WILL BE AT THE CONTRACT UNIT PRICE AND WILL BE FULL COMPENSATION FOR ALL LABOR, MATERIAL, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR EACH WORK PAD IN PLACE, COMPLETE AND ACCEPTED.

CALCULATED SSS CHECKED HJF

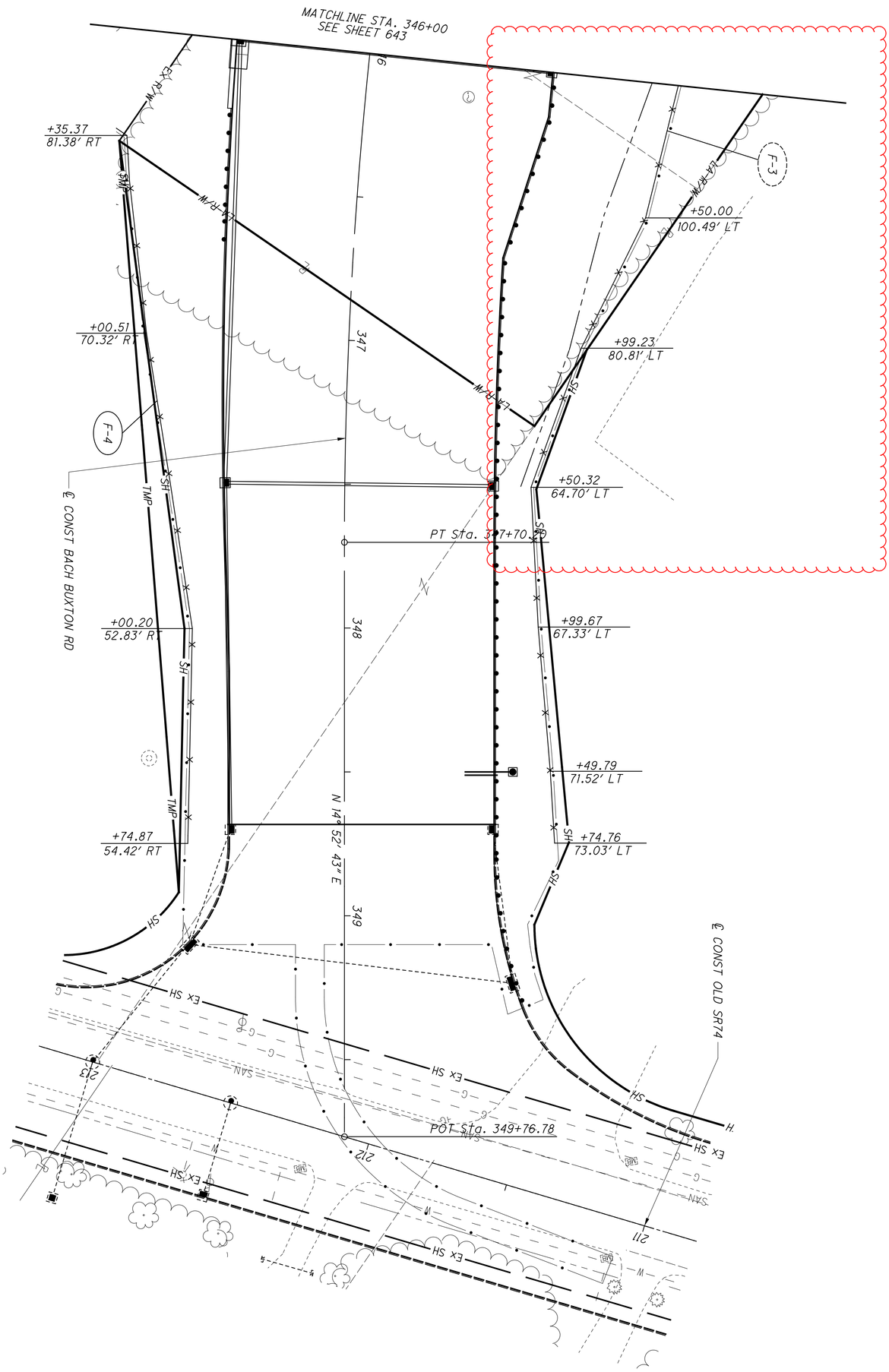
TRAFFIC SIGNAL GENERAL NOTES

CLE-32-3.50 (PHASE 5)

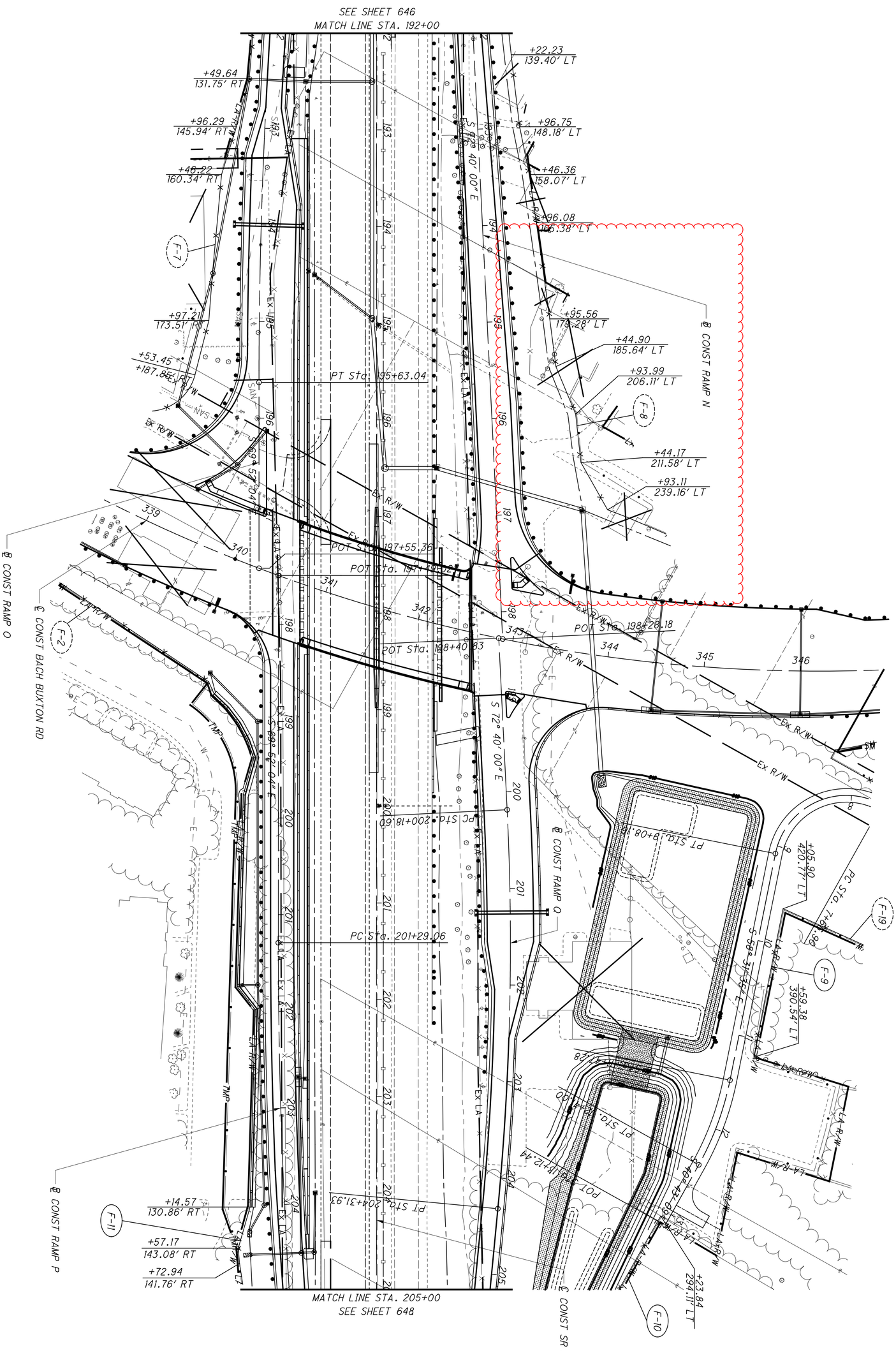
551
736



643 / 736	CLE-32-3.50 (PHASE 5)	FENCE PLAN BACH BUXTON RD STA. 341+00 TO STA. 346+00	CALCULATED MSW CHECKED WAA	0 20 10 40 HORIZONTAL SCALE IN FEET



644 / 736	**CLE-32-3.50 (PHASE 5)**	**FENCE PLAN** **BACH BUXTON RD STA. 346+00 TO STA. 346+00**	CALCULATED MSW CHECKED WAA	0 20 10 40 HORIZONTAL SCALE IN FEET

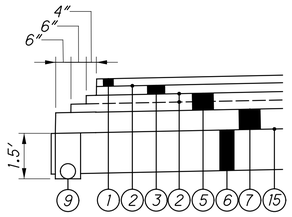


647 / 736	**CLE-32-3.50 (PHASE 5)**	**FENCE PLAN - SR 32 STA. 192+00 TO STA. 205+00**	CALCULATED MSW / CHECKED WAA	0 50 / 25 100 HORIZONTAL SCALE IN FEET

LEGEND

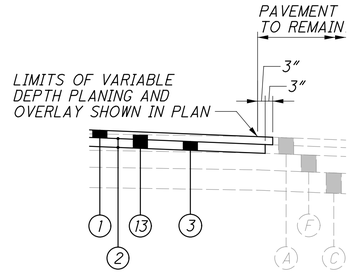
1. ITEM 442 - 1½" ASPHALT CONCRETE (SC), 12.5MM, TYPE A (446)
2. ITEM 407 - NON-TRACKING TACK COAT
3. ITEM 442 - 1¾" ASPHALT CONCRETE (IC), 19MM, TYPE A (446)
4. ITEM 659 - SEEDING AND MULCHING
5. ITEM 302 - 10" ASPHALT CONCRETE BASE, PG64-22
6. ITEM 206 - LIME STABILIZED SUBGRADE, 14" DEEP
7. ITEM 304 - 8" AGGREGATE BASE
8. ITEM 606 - GUARDRAIL, TYPE MGS
9. ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
10. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (EX PIPE PLACED IN PREVIOUS PHASES TO REMAIN IN SOME PLACES, SEE UD PLAN VIEW FOR LOCATIONS)
11. ITEM 442 - ASPHALT CONCRETE (IC), 19MM, TYPE A (446) (DEPTH AS SHOWN)
12. ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
13. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (DEPTH AS SHOWN)
14. ITEM 204 - EMBANKMENT
15. ITEM 204 - PROOF ROLLING
16. ITEM 302 - 4" ASPHALT CONCRETE BASE, PG64-22
17. ITEM 206 - CURING COAT

- (A) 3.25" ASPHALT CONCRETE
- (B) 9" REINFORCED CONCRETE
- (C) 6" AGGREGATE BASE
- (D) CONCRETE BARRIER
- (E) EX UNDERDRAIN TO REMAIN (SEE UNDERDRAIN PLAN FOR DETAILS)
- (F) 10" ASPHALT CONCRETE BASE



1

ASPHALT PAVEMENT EDGE STEP DETAIL



2

ASPHALT OVERLAY LONGITUDINAL JOINT DETAIL

NOTE "A"

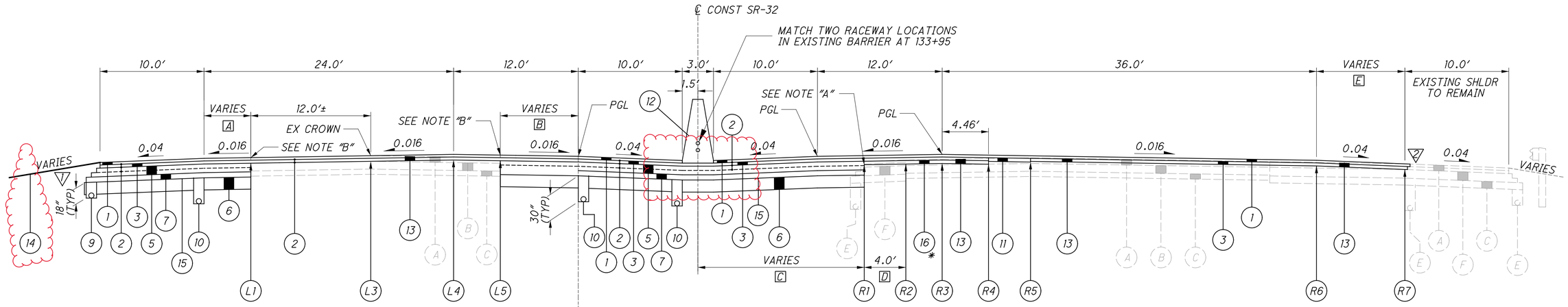
THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO LOCATE A SOUND PAVEMENT EDGE PER SEC. 203.04(E) OF THE CMS. FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLAN INDICATE THE SAW CUT LOCATION AS SHOWN WHICH IS BASED ON MATERIAL LIFT THICKNESS AND PROPOSED CROSS SLOPE REQUIREMENTS.

NOTE "B"

THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO LOCATE A SOUND PAVEMENT EDGE PER SEC. 203.04(E) OF THE CMS. FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLAN INDICATE THE SAW CUT LOCATION ALONG THE EXISTING EDGE OF PAVEMENT LINE OR SHOULDER BREAK POINT AND AVOID ANY UNNECESSARY REMOVAL OF EXISTING REINFORCED CONCRETE PAVEMENT IN THE TRAVEL LANES.

TYPICAL SECTIONS - SR-32

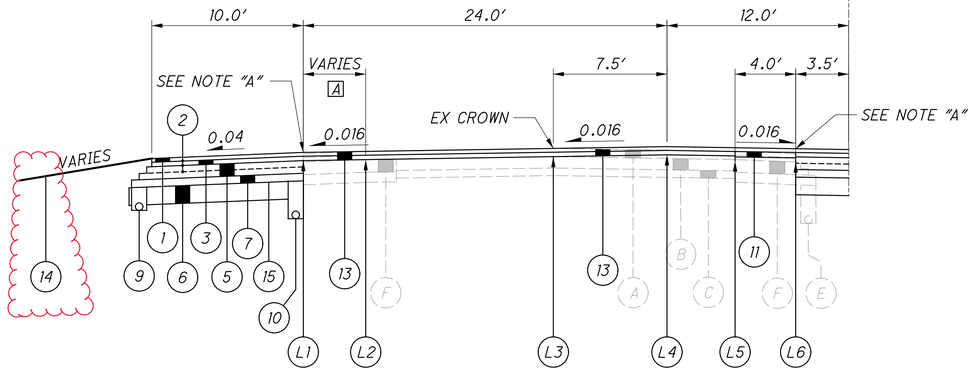
CLE-32-2.65 (PHASE 7)



SR-32 NORMAL SECTION

STA. 133+95.00 TO STA. 143+50.93

* SEE DEPTH CHART FOR LOCATIONS & DIMENSIONS



OUTSIDE EDGE APPLIES:
STA. 142+03.69 TO STA. 143+50.93

INSIDE EDGE APPLIES:
STA. 142+38.41 TO STA. 143+50.93

PAVEMENT PLANING & OVERLAY MATERIAL ESTIMATED DEPTH CHART

POINT	STATION	OFFSET (FT)	PLANING DEPTH LEFT (IN)	PLANING DEPTH RIGHT (IN)	NEW LAYER THICKNESS ITEM 442 (IN)	NEW LAYER THICKNESS ITEM 302 (IN)
L1	133+95.00	-47.17	FULL	3.25	1.75	0.00
	134+50.54	-46.53	FULL	2.88	1.75	0.00
	136+15.43	-44.00	FULL	3.25	1.75	0.00
	137+00.00	-43.38	FULL	3.25	1.75	0.00
	142+03.69	-47.50	FULL	2.06	1.75	0.00
	143+50.93	-47.50	FULL	2.06	1.75	0.00
L2	142+03.69	-43.36	7.25	3.25	1.75	0.00
	143+50.93	-43.36	7.25	3.25	1.75	0.00
L3	133+95.00	-23.17	3.25	3.25	1.75	0.00
	136+15.43	-31.78	3.25	3.25	1.75	0.00
	137+00.00	-31.52	3.25	3.25	1.75	0.00
	142+38.41	-31.00	3.25	3.25	1.75	0.00
	143+50.93	-31.00	3.25	3.25	1.75	0.00
L4	134+50.54	-23.50	2.88	2.88	1.75	0.00
	136+15.43	-23.50	0.07	0.07	1.75	0.00
	137+00.00	-23.50	0.17	0.17	1.75	0.00
	142+38.41	-23.50	0.37	0.37	1.75	0.00
	143+50.93	-23.50	0.37	0.37	1.75	0.00
L5	133+95.00	-11.17	3.25	3.25	1.75	0.00
	134+50.54	-22.53	3.25	FULL	1.75	0.00
	136+15.43	-20.00	0.07	0.07	1.75	0.00
	137+00.00	-19.52	0.17	0.17	1.75	0.00
	142+38.41	-19.00	0.37	4.37	2.53	0.00
	143+50.93	-19.00	0.37	4.37	2.53	0.00
L6	142+38.41	-15.00	3.22	FULL	2.53	0.00
	143+50.93	-15.00	3.22	FULL	2.53	0.00

POINT	STATION	OFFSET (FT)	PLANING DEPTH LEFT (IN)	PLANING DEPTH RIGHT (IN)	NEW LAYER THICKNESS ITEM 442 (IN)	NEW LAYER THICKNESS ITEM 302 (IN)
R1	133+95.00	1.50	FULL	3.25	1.75	0.00
	135+50.00	9.61	FULL	1.21	1.75	0.00
	136+75.00	11.66	FULL	0.05	2.50	0.00
	137+85.00	13.46	FULL	2.10	1.75	4.00
	139+40.03	16.00	FULL	0.39	1.75	4.00
	143+50.93	16.00	FULL	0.39	1.75	4.00
R2	135+50.00	11.50	FULL	1.21	1.75	0.00
	137+85.00	17.46	3.25	3.25	1.75	4.00
	139+40.03	20.00	1.54	1.54	1.75	4.00
	143+50.93	20.00	1.54	1.54	1.75	4.00
R3	135+50.00	13.62	1.83	1.83	1.75	0.00
	136+75.00	15.66	1.20	0.45	1.75	0.00
	137+85.00	23.50	3.25	0.10	2.50	0.00
	139+40.03	23.50	1.54	1.54	2.50	0.00
	143+50.93	23.50	1.54	1.54	2.50	0.00
R4	135+50.00	23.50	1.83	1.83	1.75	0.00
	136+75.00	23.50	0.45	0.45	1.75	0.00
	137+85.00	25.47	0.86	0.00	1.75	0.00
	139+40.03	27.96	3.25	0.00	1.75	0.00
	143+50.93	27.96	3.25	0.00	1.75	0.00
R5	135+50.00	25.62	2.64	2.64	1.75	0.00
	136+75.00	27.66	2.05	2.05	1.75	0.00
	137+85.00	29.46	1.53	1.53	1.75	0.00
	139+40.03	32.00	1.55	0.80	1.75	0.00
	143+50.93	32.00	1.55	0.80	1.75	0.00
R6	135+50.00	59.50	2.64	2.64	1.75	0.00
	136+75.00	59.50	2.05	2.05	1.75	0.00
	137+85.00	59.50	1.53	1.53	1.75	0.00
	139+40.03	59.50	0.80	0.80	1.75	0.00
	143+50.93	59.50	0.80	0.80	1.75	0.00
R7	133+95.00	59.17	3.25	0.00	1.75	0.00
	135+50.00	61.62	3.25	0.00	1.75	0.00
	136+75.00	63.66	3.25	0.00	1.75	0.00
	137+85.00	65.46	3.25	0.00	1.75	0.00
	139+40.03	68.00	3.25	0.00	1.75	0.00
	143+50.93	68.00	3.25	0.00	1.75	0.00

[A] VARIES 0.0′ TO 3.5′±
STA. 133+95.00 TO STA. 135+88.47
VARIES 3.5′± MIN TO 4.5′± MAX
STA. 135+88.47 TO STA. 142+03.69
0.0′
STA. 142+03.69 TO STA. 143+50.93

[B] 0.0′
STA. 133+95.00 TO STA. 134+00.00
VARIES 0.0′ TO 11.0′±
STA. 134+00.00 TO STA. 134+50.54
VARIES 11.0′± TO 8.5′±
STA. 134+50.54 TO STA. 135+88.20
VARIES 8.5′± MAX TO 7.4′± MIN
STA. 135+88.20 TO STA. 142+38.41

[C] 1.5′
STA. 133+95.00 TO STA. 134+01.15
VARIES 1.5′ TO 9.61′±
STA. 134+01.15 TO STA. 135+50.00
VARIES 9.61′± TO 16.0′±
STA. 135+50.00 TO STA. 139+40.03
16.0′±
STA. 139+40.03 TO STA. 143+50.93

[D] 10.0′
STA. 133+95.00 TO STA. 134+01.15
VARIES 10.0′ TO 4.0′±
STA. 134+01.15 TO STA. 135+50.00
4.0′±
STA. 135+50.00 TO STA. 143+50.93

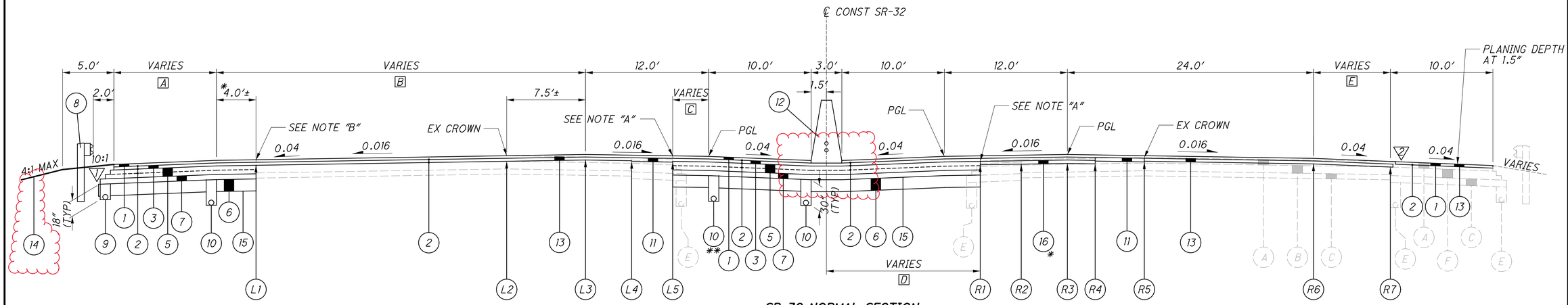
[E] VARIES 0.0′ TO 8.5′
STA. 133+95.00 TO STA. 139+39.62
8.5′
STA. 139+39.62 TO STA. 143+50.93

▽ FOR PAVEMENT EDGE DETAILS, SEE SHEET 4

FOR PROPOSED LEGEND AND NOTES, SEE SHEET 4

TYPICAL SECTIONS - SR-32

CLE-32-2.65
(PHASE 7)



SR-32 NORMAL SECTION

STA. 143+50.93 TO STA. 158+00.00

* SEE DEPTH CHART FOR LOCATIONS AND DIMENSIONS
** SEE UNDERDRAIN PLAN FOR LOCATIONS

A VARIES ±6.12′ TO 4.0′
STA. 144+09.97 TO STA. 144+20.75
4.0′
STA. 144+20.75 TO STA. 147+00.00
VARIES 4.0′ TO 10.0′
STA. 147+00.00 TO STA. 148+00.00
10.0′
STA. 148+00.00 TO STA. 158+00.00

B 36.0′
STA. 143+50.93 TO STA. 147+00.00
VARIES 36.0′ TO 24.0′
STA. 147+00.00 TO STA. 148+00.00
24.0′
STA. 148+00.00 TO STA. 158+00.00

C 4.5′
STA. 143+50.93 TO STA. 145+00.00
VARIES 4.5′ TO 3.5′
STA. 145+00.00 TO STA. 146+00.00
3.5′
STA. 146+00.00 TO STA. 150+21.50
7.5′
STA. 150+21.50 TO STA. 152+75.00

D 16.0′
STA. 143+50.93 TO STA. 145+00.00
VARIES 16.0′ TO 15.0′
STA. 145+00.00 TO STA. 146+00.00
15.0′
STA. 146+00.00 TO STA. 150+21.50′
19.0′
STA. 150+21.50 TO STA. 152+75.00
VARIES 15.0′ TO 7.5′
STA. 152+75.00 TO STA. 158+00.00

E 8.5′
STA. 143+50.93 TO STA. 145+00.00
VARIES 8.5′ TO 7.5′
STA. 145+00.00 TO STA. 146+00.00
7.5′
STA. 146+00.00 TO STA. 152+75.00
VARIES 7.5′ TO 0.0′
STA. 152+75.00 TO STA. 158+00.00

▽ FOR PAVEMENT EDGE DETAILS, SEE SHEET 4

FOR PROPOSED LEGEND AND NOTES, SEE SHEET 4

PAVEMENT PLANING & OVERLAY MATERIAL ESTIMATED DEPTH CHART

POINT	STATION	OFFSET (FT)	PLANING DEPTH LEFT (IN)	PLANING DEPTH RIGHT (IN)	NEW LAYER THICKNESS ITEM 442 (IN)	NEW LAYER THICKNESS ITEM 302 (IN)
L1	143+50.93	-55.32	FULL	3.25	1.75	0.00
	145+25.00	-55.69	FULL	3.25	1.75	0.00
	147+00.00	-55.07	FULL	3.25	1.75	0.00
	148+21.14	-43.18	FULL	3.25	1.75	0.00
	153+50.00	-43.40	FULL	3.25	1.75	0.00
	158+00.00	-43.42	FULL	3.25	1.75	0.00
L2	143+50.93	-31.00	3.25	3.25	1.75	0.00
	145+25.00	-31.00	3.25	3.25	1.75	0.00
	147+00.00	-31.00	3.25	3.25	1.75	0.00
	148+21.14	-31.07	3.25	3.25	1.75	0.00
	153+50.00	-31.30	3.25	3.25	1.75	0.00
	158+00.00	-30.96	3.25	3.25	1.75	0.00
L3	143+50.93	-23.50	0.30	0.30	1.75	0.00
	145+25.00	-23.50	0.30	0.30	1.75	0.00
	147+00.00	-23.50	0.30	0.30	1.75	0.00
	148+21.14	-23.50	0.30	0.30	1.75	0.00
	153+50.00	-23.50	0.25	0.25	1.75	0.00
	158+00.00	-23.50	0.39	0.39	1.75	0.00
L4	143+50.93	-19.00	0.30	1.15	2.60	0.00
	145+25.00	-19.00	0.30	1.15	2.60	0.00
	147+00.00	-19.11	0.30	1.15	2.60	0.00
	148+21.14	-19.00	0.30	1.15	2.60	0.00
	153+50.00	-19.66	0.25	FULL	1.75	0.00
	158+00.00	-18.87	0.39	FULL	1.75	0.00
L5	143+50.93	-15.00	0.00	FULL	2.60	0.00
	145+25.00	-15.00	0.00	FULL	2.60	0.00
	147+00.00	-15.00	0.00	FULL	2.60	0.00
	148+21.14	-15.00	0.00	FULL	2.60	0.00

POINT	STATION	OFFSET (FT)	PLANING DEPTH LEFT (IN)	PLANING DEPTH RIGHT (IN)	NEW LAYER THICKNESS ITEM 442 (IN)	NEW LAYER THICKNESS ITEM 302 (IN)
R1	143+50.93	16.00	FULL	0.38	1.75	4.00
	145+00.00	16.00	FULL	0.38	1.75	4.00
	146+00.00	15.00	FULL	1.06	1.75	4.00
	155+35.59	10.88	FULL	0.00	1.75	0.00
	158+00.00	7.50	FULL	3.25	1.75	0.00
R2	143+50.93	20.00	1.54	1.54	1.75	4.00
	145+00.00	20.00	1.54	1.54	1.75	4.00
	146+00.00	19.00	2.21	2.21	1.75	4.00
	150+21.50	19.00	FULL	2.21	1.75	4.00
	152+75.00	19.00	FULL	2.21	1.75	4.00
	155+35.59	14.88	0.98	0.98	1.75	0.00
	158+00.00	11.50	3.25	3.25	1.75	0.00
R3	143+50.93	23.50	1.54	1.54	1.75	4.00
	145+00.00	23.50	1.54	1.54	1.75	4.00
	146+00.00	23.50	2.21	2.21	1.75	4.00
	150+21.50	23.50	FULL	2.21	1.75	4.00
	152+75.00	23.50	FULL	2.21	1.75	4.00
	155+35.59	23.50	0.98	0.98	1.75	0.00
	158+00.00	23.50	3.25	3.25	1.75	0.00
R4	143+50.93	27.96	3.25	0.00	2.50	0.00
	145+00.00	27.96	3.25	0.00	2.50	0.00
	146+00.00	26.21	3.25	0.00	2.50	0.00
	150+21.50	26.21	3.25	0.00	2.50	0.00
	152+75.00	26.21	3.25	0.00	2.50	0.00
R5	143+50.93	32.00	1.55	0.80	1.75	0.00
	145+00.00	32.00	1.55	0.80	1.75	0.00
	146+00.00	31.00	1.84	1.09	1.75	0.00
	150+21.50	31.00	1.84	1.09	1.75	0.00
	152+75.00	31.00	1.84	1.09	1.75	0.00
	155+35.59	26.88	2.28	2.28	1.75	0.00
R6	143+50.93	47.50	0.80	0.80	1.75	0.00
	145+00.00	47.50	0.80	0.80	1.75	0.00
	146+00.00	47.50	1.09	1.09	1.75	0.00
	150+21.50	47.50	1.09	1.09	1.75	0.00
	152+75.00	47.50	1.09	1.09	1.75	0.00
	155+35.59	47.50	2.28	2.28	1.75	0.00
R7	143+50.93	56.00	3.25	0.00	1.75	0.00
	145+00.00	56.00	3.25	0.00	1.75	0.00
	146+00.00	55.00	3.25	0.00	1.75	0.00
	150+21.50	55.00	3.25	0.00	1.75	0.00
	152+75.00	55.00	3.25	0.00	1.75	0.00
	155+35.59	50.88	3.25	0.00	1.75	0.00
	158+00.00	47.50	3.25	0.00	1.75	0.00

TYPICAL SECTIONS - SR-32

CLE-32-2.65
(PHASE 7)

7
316

[A] 24.0′
STA. 158+00.00 TO STA. 173+90.25
VARIES 24.0′ TO 26.0′±
STA. 173+90.25 TO STA. 174+90.17
VARIES 26.0′± TO 64.4′±
STA. 174+90.17 TO STA. 188+44.21
12.0′
STA. 188+44.21 TO STA. 190+00.00

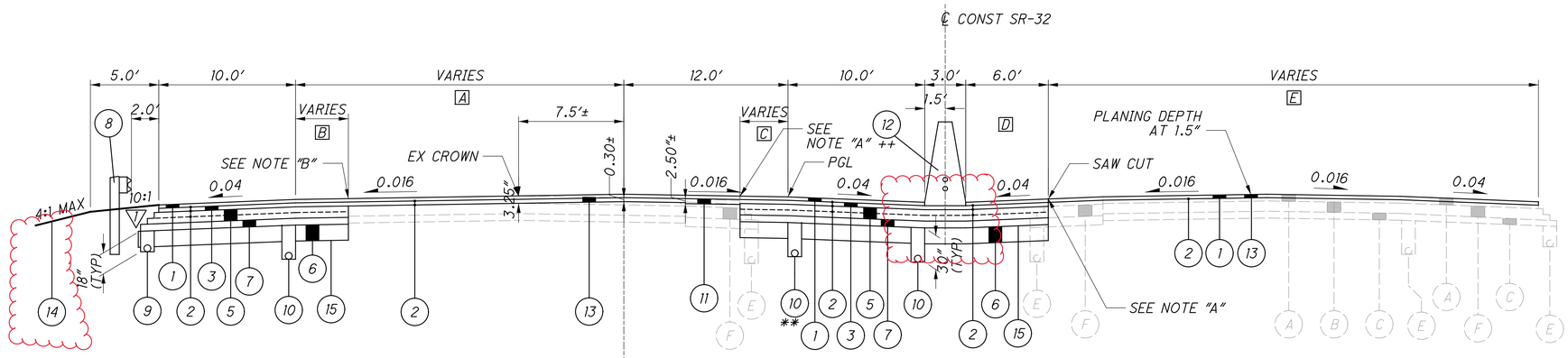
[B] ±4.0′
STA. 158+00.00 TO STA. 158+12.08
STA. 159+32.74 TO STA. 171+90.25
0.0′
STA. 158+12.08 TO STA. 159+32.74
STA. 171+90.25 TO STA. 174+90.17

[C] ±7.3′
STA. 158+00.00 TO STA. 158+52.28
±4.3′
STA. 158+52.28 TO STA. 159+66.43
STA. 173+62.03 TO STA. 175+64.35
±8.0′
STA. 159+66.43 TO STA. 173+62.03
STA. 175+64.35 TO STA. 188+02.27
±3.8′
STA. 188+02.27 TO STA. 192+03.94
VARIES ±7.8′ MAX TO ±6.8′ MIN
STA. 192+03.94 TO STA. 202+96.96

[D] 6.0′
STA. 158+00.00 TO STA. 196+25.00
STA. 199+65.00 TO STA. 202+96.96
2.0′
STA. 196+25.00 TO STA. 196+90.50
STA. 198+98.00 TO STA. 199+65.00
0.0′
STA. 196+90.50 TO STA. 198+98.00

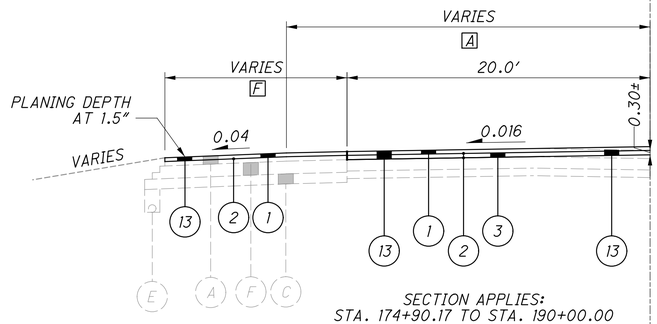
[E] 50.0′
STA. 158+00.00 TO STA. 167+44.00
VARIES 34.7′ TO 34.2′
STA. 167+44.00 TO STA. 184+35.77
VARIES 34.2′ TO 40.0′
STA. 184+35.77 TO STA. 184+60.18
40.0′
STA. 184+60.18 TO STA. 189+13.54
VARIES 40.0′ TO 34.7′
STA. 189+13.54 TO STA. 202+96.96

[F] 14.0′ TO 50.3′
STA. 174+90.17 TO STA. 188+44.20
10.0′
STA. 188+44.20 TO STA. 190+00.00

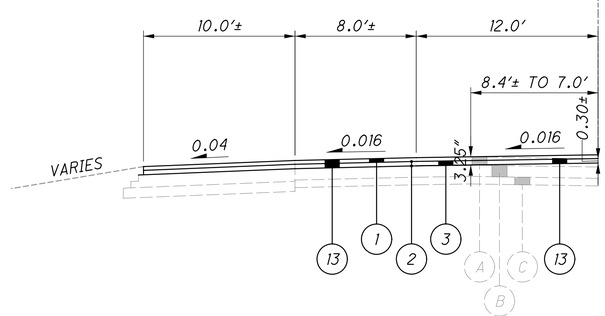


++ EXISTING MEDIAN BARRIER TO REMAIN SR-32:
STA. 196+90.50 TO STA. 198+98.00

** SEE UNDERDRAIN PLAN FOR LOCATIONS



SECTION APPLIES:
STA. 174+90.17 TO STA. 190+00.00



SECTION APPLIES:
STA. 190+00.00 TO STA. 202+96.96

SR-32 NORMAL SECTION

STA. 158+00.00 TO STA. 202+96.96

▽ FOR PAVEMENT EDGE DETAILS, SEE SHEET 4

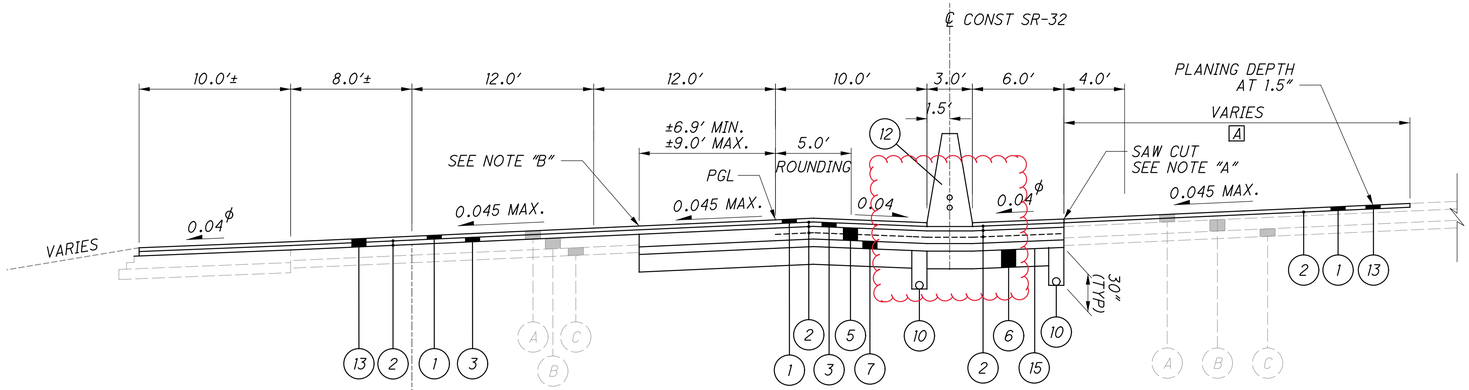
FOR PROPOSED LEGEND AND NOTES, SEE SHEET 4

TYPICAL SECTIONS - SR-32

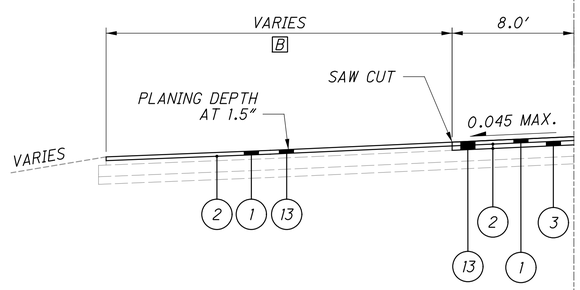
CLE-32-2.65
(PHASE 7)

[A] VARIES 34.7′ TO 34.9′
STA. 202+96.96 TO STA. 217+00.00 BK/231+49.42 AH

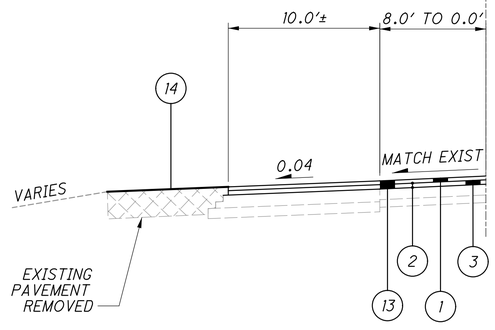
[B] VARIES 47.1′ TO 20.0′
STA. 207+94.20 TO STA. 212+66.69
20.0′
STA. 212+66.69 TO STA. 215+48.49
VARIES 20.0′ TO 10.0′
STA. 215+48.49 TO STA. 216+48.49



SR-32 SUPERELEVATED SECTION
STA. 202+96.96 TO STA. 217+00.00 BK/231+49.42 AH



SECTION APPLIES:
STA. 207+94.20 TO STA. 216+48.49



SECTION APPLIES:
STA. 216+48.49 TO STA. 231+64.57

▽ FOR PAVEMENT EDGE DETAILS, SEE SHEET 4
λ 7.00% MAX BREAK
ϕ 0.040 OR RATE OF SUPER IF GREATER
FOR PROPOSED LEGEND AND NOTES, SEE SHEET 4

\303.207\103956_GY700.dgn 11/19/2021 3:31:00 PM mswhitt

TYPICAL SECTIONS - SR-32

CLE-32-2.65
(PHASE 7)

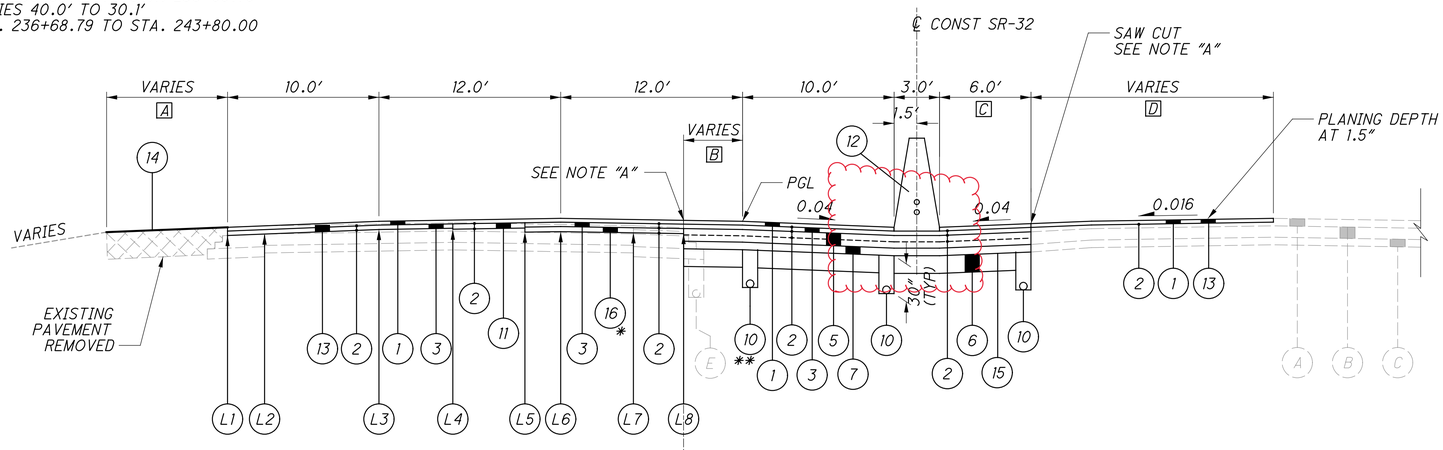
[A] VARIES 0.0′ TO 7.4′±
STA. 216+53.87 TO STA. 231+64.57
7.5′±
STA. 231+64.57 TO STA. 236+20.00
VARIES 7.5′± TO 0.0′
STA. 236+20.00 TO STA. 240+47.17
0.0′
STA. 240+47.17 TO STA. 241+00.00

[B] ±7.0′
STA. 231+49.42 TO STA. 234+95.58
±3.8′
STA. 234+95.58 TO STA. 236+20.00
VARIES ±3.7′ TO 0.0′
STA. 236+20.00 TO STA. 238+47.77
0.0′
STA. 238+47.77 TO STA. 239+21.68
VARIES ±3.1′ TO 0.0′
STA. 239+21.68 TO STA. 241+00.00

[C] 6.0′
STA. 231+49.42 TO STA. 238+00.00
VARIES 6.0′ TO 10.5′
STA. 238+00.00 TO STA. 241+00.00

[D] VARIES 34.9′ TO 40.0′
STA. 231+49.42 TO STA. 235+59.43
40.0′
STA. 235+59.43 TO STA. 236+68.79
VARIES 40.0′ TO 30.1′
STA. 236+68.79 TO STA. 243+80.00

[E] VARIES 34.0′ TO 34.1′
STA. 241+00.00 TO STA. 251+24.20



SECTION APPLIES:
STA. 241+00.00 TO STA. 251+24.20

SR-32 NORMAL SECTION

STA. 217+00.00 BK/231+49.42 AH TO STA. 241+00.00

PAVEMENT PLANING & OVERLAY MATERIAL ESTIMATED DEPTH CHART

POINT	STATION	OFFSET (FT)	PLANING DEPTH		NEW LAYER THICKNESS	
			LEFT (IN)	RIGHT (IN)	ITEM 442 (IN)	ITEM 302 (IN)
L1	231+49.42	-45.50	FULL	3.25	1.75	0.00
	234+95.57	-45.50	FULL	3.25	1.75	0.00
	236+20.00	-45.50	FULL	3.25	1.75	0.00
	237+17.28	-47.07	FULL	3.25	1.75	0.00
	238+06.26	-48.50	FULL	3.25	1.75	0.00
	239+21.68	-50.37	FULL	3.25	1.75	0.00
	241+00.00	-52.54	0.00	3.25	1.75	0.00
L2	231+49.42	-42.52	3.25	3.25	1.75	0.00
	234+95.57	-43.05	3.25	3.25	1.75	0.00
	236+20.00	-43.05	3.25	3.25	1.75	0.00
	237+17.28	-43.33	3.25	3.25	1.75	0.00
	238+06.26	-43.31	3.25	3.25	1.75	0.00
	239+21.68	-43.34	3.25	3.25	1.75	0.00
	241+00.00	-43.24	3.25	3.25	1.75	0.00
L3	231+49.42	-35.50	1.23	1.23	1.75	0.00
	234+95.57	-35.50	1.08	1.08	1.75	0.00
	236+20.00	-35.50	1.08	1.08	1.75	0.00
	237+17.28	-36.93	1.41	1.41	1.75	0.00
	238+06.26	-38.24	1.79	1.79	1.75	0.00
	239+21.68	-39.94	2.27	2.27	1.75	0.00
L4	231+49.42	-30.00	1.23	1.98	2.50	0.00
	234+95.57	-30.62	1.08	1.83	2.50	0.00
	236+20.00	-30.62	1.08	1.83	2.50	0.00
	237+17.28	-30.96	1.41	1.41	1.75	0.00
	238+06.26	-31.00	1.79	1.79	1.75	0.00
	239+21.68	-31.04	2.27	2.27	1.75	0.00
L5	231+49.42	-24.86	0.00	3.25	1.75	4.00
	234+95.57	-25.87	0.00	3.25	1.75	4.00
	236+20.00	-25.87	0.00	3.25	1.75	4.00
	237+17.28	-27.30	0.00	0.91	2.66	0.00
L6	231+49.42	-23.50	2.73	2.73	1.75	4.00
	234+95.57	-23.50	2.34	2.34	1.75	4.00
	236+20.00	-23.50	2.34	2.34	1.75	4.00
	237+17.28	-24.93	0.00	3.25	1.75	4.00
	238+06.26	-26.24	0.00	0.00	1.75	0.00
	239+21.68	-27.94	1.08	1.08	1.75	0.00
	241+00.00	-31.00	3.25	3.25	1.75	0.00
L7	231+49.42	-18.40	2.73	0.00	1.75	4.00
	234+95.57	-18.70	2.34	2.34	1.75	4.00
	236+20.00	-18.70	2.34	2.34	1.75	4.00
	237+17.28	-18.88	3.25	3.25	1.75	4.00
	238+06.26	-18.95	0.00	1.16	2.95	0.00
	239+21.68	-19.05	1.08	1.08	1.75	0.00
	241+00.00	-18.56	3.25	3.25	1.75	0.00
L8	234+95.57	-15.39	1.39	FULL	1.75	4.00
	236+20.00	-15.39	1.39	FULL	1.75	4.00
	237+17.28	-15.05	1.99	FULL	1.75	4.00
	238+06.26	-14.92	0.00	FULL	2.95	0.00

* SEE DEPTH CHART FOR LOCATIONS AND DIMENSIONS
** SEE UNDERDRAIN PLAN FOR LOCATIONS

▽ FOR PAVEMENT EDGE DETAILS, SEE SHEET 4

FOR PROPOSED LEGEND AND NOTES, SEE SHEET 4

TYPICAL SECTIONS - SR-32

CLE-32-2.65
(PHASE 7)

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	1,194 CU. YD.
659, SEEDING AND MULCHING	10,753 SQ. YD.
659, REPAIR SEEDING AND MULCHING	538 SQ. YD.
659, INTER-SEEDING	538 SQ. YD.
659, COMMERICAL FERTILIZER	1.50 TON
659, LIME	2.22 ACRES
659, WATER	60 M GALS
659, MOWING	24 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.

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.

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 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET 80 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 17 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$\frac{S}{32}$S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRICT 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.

ITEM 253 - PAVEMENT REPAIR

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ACCOUNT FOR FULL DEPTH PAVEMENT REPAIR NEEDS IN AREAS OF PAVEMENT PLANING AND RESURFACING FOR USE AS DIRECTED BY THE ENGINEER. FULL DEPTH ASPHALT PAVEMENT IS ASSUMED TO BE 19.25" DEEP.

ITEM 253 - PAVEMENT REPAIR	5,670 CY

ITEM 254 - PATCHING PLANED SURFACE

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ACCOUNT FOR PATCHING AREAS OF THE PLANED SURFACE THAT THE ENGINEER DESIGNATES AS HAVING SPALLING OR DISLODGED UNSOUND PAVEMENT.

ITEM 253 - PATCHING PLANED SURFACE	10,600 SY

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.

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 (BIDIRECTIONAL) 60 MPH, 34 IN), 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 SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULK-HEADS IN EXISTING 12 AND 15 IN DIAMETER CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

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

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

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

CALCULATED MSW
CHECKED WAA

GENERAL NOTES

CLE-32-2.65
(PHASE 7)

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
11	12	13	73	74	75	76	77	81	83	275			02/NHS/PV						
																		ROADWAY	
LS													LS	201	11000	LS		CLEARING AND GRUBBING	
			7										7	202	20010	7	EACH	HEADWALL REMOVED	
			8,029										8,029	202	23000	8,029	SY	PAVEMENT REMOVED	
			849										849	202	30700	849	FT	CONCRETE BARRIER REMOVED	
			1,047										1,047	202	35100	1,047	FT	PIPE REMOVED, 24" AND UNDER	
			615										615	202	38000	615	FT	GUARDRAIL REMOVED	
			54										54	202	38300	54	FT	GUARDRAIL REMOVED, BARRIER DESIGN	
			2										2	202	47800	2	EACH	IMPACT ATTENUATOR REMOVED	
			6,409										6,409	202	48000	6,409	FT	CABLE BARRIER REMOVED	
			3										3	202	58000	3	EACH	MANHOLE REMOVED	
			8										8	202	58100	8	EACH	CATCH BASIN REMOVED	
			51										51	SPECIAL	20270000	51	FT	FILL AND PLUG EXISTING CONDUIT (12"-15")	12
			1,419										1,419	202	75000	1,419	FT	FENCE REMOVED	
					11,231								11,231	203	10000	11,231	CY	EXCAVATION	
					727								727	203	20000	727	CY	EMBANKMENT	
								114					114	204	10000	114	SY	SUBGRADE COMPACTION	
	17												17	204	45000	17	HOUR	PROOF ROLLING	
								34,112					34,112	206	10020	34,112	SY	LIME STABILIZED SUBGRADE, 14 INCHES DEEP	
								1,030					1,030	206	10300	1,030	TON	LIME	
								34,226					34,226	206	11000	34,226	SY	CURING COAT	
				1,950									1,950	606	15050	1,950	FT	GUARDRAIL, TYPE MGS	
				4									4	606	26150	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
				3									3	606	26550	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				1									1	606	60028	1	EACH	IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL) (60 MPH/34" WIDTH)	
				1,317									1,317	607	23000	1,317	FT	FENCE, TYPE CLT	
				1,317									1,317	607	70000	1,317	FT	FENCELINE SEEDING AND MULCHING	
				7,771									7,771	622	10140	7,771	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1	
				1									1	622	24860	1	EACH	CONCRETE BARRIER END SECTION, TYPE C1	
				42									42	622	25014	42	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	
				1									1	622	25015	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN	178
										13			13	623	38500	13	EACH	MONUMENT ASSEMBLY	
																		EROSION CONTROL	
		8				4							12	601	21050	12	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					5								5	601	32204	5	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
	2												2	659	00100	2	EACH	SOIL ANALYSIS TEST	
	1,194												1,194	659	00300	1,194	CY	TOPSOIL	
	10,753												10,753	659	10000	10,753	SY	SEEDING AND MULCHING	
	538												538	659	14000	538	SY	REPAIR SEEDING AND MULCHING	
	538												538	659	15000	538	SY	INTER-SEEDING	
	1.5												1.5	659	20000	1.5	TON	COMMERCIAL FERTILIZER	
	2.22												2.22	659	31000	2.22	ACRE	LIME	
	60												60	659	35000	60	MGAL	WATER	
	24												24	659	40000	24	MSF	MOWING	
						142							142	670	00710	142	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	
									120,281				120,281	832	30000	120,281	EACH	EROSION CONTROL	

CALCULATED MSW
CHECKED WAA

GENERAL SUMMARY

CLE-32-2.65
(PHASE 7)

67
316

...\303.207\103956_GG701.dgn 11/19/2021 3:32:34 PM mswhitt

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
12	13	14	15	19	74	76	77	81	82	251			02/NHS/PV						
																		DRAINAGE	
						2.5							2.5	602	20000	2.5	CY	CONCRETE MASONRY	
							17,348						17,348	605	11110	17,348	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	200												200	605	13300	200	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
							3,743						3,743	605	14020	3,743	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	200												200	611	00406	200	FT	4" CONDUIT, TYPE F	
							704						704	611	00510	704	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
						313							313	611	05900	313	FT	15" CONDUIT, TYPE B	
						10							10	611	05901	10	FT	15" CONDUIT, TYPE B, AS PER PLAN	13
						30							30	611	07400	30	FT	18" CONDUIT, TYPE B, 706.02	
						122							122	611	10400	122	FT	24" CONDUIT, TYPE B	
						15							15	611	10400	15	FT	24" CONDUIT, TYPE B, 706.02	
						10							10	611	19400	10	FT	42" CONDUIT, TYPE B	
						320								611	96600	320	FT	CONDUIT, BORED OR JACKED: 15" TYPE B	
						84								611	96600	84	FT	CONDUIT, BORED OR JACKED: 24" TYPE B	
				2									2	611	98631	2	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	19
						12							12	611	99110	12	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
						1								611	99574	1	EACH	MANHOLE, NO. 3	
						7							7	611	99654	7	EACH	MANHOLE ADJUSTED TO GRADE	
						1							1	611	99660	1	EACH	MANHOLE RECONSTRUCTED TO GRADE	
	4						2						6	611	99710	6	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
5,670													5,670	253	02000	5,670	CY	PAVEMENT REPAIR	
								105,877					105,877	254	01000	105,877	SY	PAVEMENT PLANING, ASPHALT CONCRETE (DEPTH AS SHOWN)	
10,600													10,600	254	01600	10,600	SY	PATCHING PLANED SURFACE	
			5										5	301	46000	5	CY	ASPHALT CONCRETE BASE, PG64-22	
								9,619					9,619	302	46000	9,619	CY	ASPHALT CONCRETE BASE, PG64-22	
			4					7,590					7,594	304	20000	7,594	CY	AGGREGATE BASE	
			2					18,067					18,069	407	20000	18,069	GAL	NON-TRACKING TACK COAT	
		28											28	410	12000	28	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
			1										1	441	50000	1	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
								6,122					6,122	442	00100	6,122	CY	ANTI-SEGREGATION EQUIPMENT	
								5,684					5,684	442	10000	5,684	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
								3,622					3,622	442	10100	3,622	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
																		WATER WORK	
									2				2	638	08704	2	EACH	6" CUTTING-IN SLEEVE	
									20				20	638	98600	20	FT	WATER WORK, MISC.: 6" DUCTILE IRON WATER MAIN AND DUCTILE IRON FITTINGS (CCWRD ITEM 2110)	214
																		SANITARY SEWER	
					1								1	611	99900	1	EACH	DRAINAGE STRUCTURE, MISC.: MANHOLE ADJUSTED TO GRADE	216
																		LIGHTING	
										74			74	625	00450	74	EACH	CONNECTION, FUSED PULL APART	
										15			15	625	00470	15	EACH	CONNECTION, UNFUSED BOLTED	
										9			9	625	00480	9	EACH	CONNECTION, UNFUSED PERMANENT	
										37			37	625	10494	37	EACH	LIGHT POLE, LOW MAST, ALM50	
										37			37	625	14306	37	EACH	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP	
										24,881			24,881	625	23300	24,881	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	
										4,366			4,366	625	23400	4,366	FT	NO. 10 AWG POLE AND BRACKET CABLE	
										24			24	625	25504	24	FT	CONDUIT, 3", 725.051	
										140			140	625	25902	140	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	
										37			37	625	26273	37	EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, SYMMETRIC, 480 VOLT	250
										12			12	625	29000	12	FT	TRENCH	
										4			4	625	29930	4	EACH	MEDIAN JUNCTION BOX	
										2			2	625	30706	2	EACH	PULL BOX, 725.08, 24"	
										41			41	625	32000	41	EACH	GROUND ROD	
										2			2	625	34001	2	EACH	POWER SERVICE, AS PER PLAN	250
										12			12	625	36010	12	FT	UNDERGROUND WARNING/MARKING TAPE	
										1			1	625	75800	1	EACH	DISCONNECT CIRCUIT	

CALCULATED MSW
CHECKED WAA

GENERAL SUMMARY

CLE-32-2.65
(PHASE 7)

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	202 HEADWALL REMOVED EACH		202 PAVEMENT REMOVED SY	202 CONCRETE BARRIER REMOVED FT		202 PIPE REMOVED, 24" AND UNDER FT		202 GUARDRAIL REMOVED FT	202 GUARDRAIL REMOVED, BARRIER DESIGN FT	202 IMPACT ATTENUATOR REMOVED EACH	202 CABLE BARRIER REMOVED FT		202 MANHOLE REMOVED EACH	202 CATCH BASIN REMOVED EACH		202 SPECIAL - FILL AND PLUG EXISTING CONDUIT (12"-15") FT	202 FENCE REMOVED FT	
86	R-1	133+95.00	143+34.25	LT			1,008.2															
86	R-2	133+95.00	142+38.41	LT			402.1															
86	R-3	133+95.00	141+82.28	LT				789.0														
86	R-4	137+99.33	140+28.89	LT								229										
86	R-5	141+82.28	142+36.58	LT									54									
86	R-7	136+36.79	136+46.80	LT														1				
86	R-8	138+39.45	142+00.00	LT						349.0								3				
86	R-9	142+31.70		LT													1					
87	R-11	153+40.00	169+00.00	LT											1,510							
87	R-12	144+10.00	174+90.33	LT			3,359.2															
87	R-16	150+21.50	152+75.00	RT			131.9															
87	R-17	153+50.00	158+52.30	LT			515.1															
88	R-20	158+14.44		LT	1					6.0												
88	R-21	158+29.60	159+17.67	LT	2					88.0												
88	R-22	159+05.50	159+08.87	LT						5.2												
88	R-23	159+73.04	160+50.00	LT/RT	1					117.6							1	1		24.6		
88	R-24	160+15.36	160+22.12	LT	1					9.2												
88	R-25	159+66.43	173+62.03	LT			495.1															
88	R-26	168+00.00	185+00.00	LT											1,700							
88	R-27	160+95.45	174+11.77	LT																	1,419.0	
89	R-30	175+64.35	188+02.27	LT			414.2															
89	R-31	173+46.30	173+74.06	LT	1					81.5								1				
89	R-32	173+71.39	173+72.19	LT	1					9.7												
90	R-36	192+20.00	232+35.00	LT											2,624							
90	R-38	192+03.94	234+95.57	LT			1,036.8															
91	R-43	196+25.00	196+90.50	CL				30.0						1								
91	R-44	198+98.00	199+65.00	CL				30.0						1								
92	R-50	216+48.58	234+83.45	LT								385.5										
92	R-51	216+53.87	216+53.87	LT			586.5															
92	R-52	232+00.00	235+34.91	LT						335.1							1	2				
93	R-54	235+34.91		LT						45.4										26.8		
93	R-55	239+25.00	245+00.00	LT											575							
93	R-56	239+21.68	241+00.00	LT			80.0															
TOTALS CARRIED TO GENERAL SUMMARY					7		8,029	849		1,047		615	54	2	6,409		3	8		51	1,419	

REMOVAL ESTIMATED QUANTITIES

CALCULATED MSW
CHECKED WAA

CLE-32-2.65
(PHASE 7)

73
316

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	606 GUARDRAIL, TYPE MGS (FT)	606 ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) (EACH)	606 ANCHOR ASSEMBLY, MGS TYPE T (EACH)		606 IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL) (EACH)	607 FENCE, TYPE CL T (FT)	607 FENCELINE SEEDING AND MULCHING (FT)		611 DRAINAGE STRUCTURE, MISC.: MANHOLE ADJUSTED TO GRADE (EACH)		622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C1 (FT)	622 CONCRETE BARRIER END SECTION, TYPE C1 (EACH)	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1 (EACH)	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN (EACH)				
86	B-1	133+95.00	143+00.00	CL											804.0		2	1				
86	G-1	138+85.95	140+39.61	LT	87.5	1	1															
87	B-2	143+00.00	155+50.00	CL											1,080.0		6					
87	G-2	149+87.50	160+03.13	LT	900.0	1	1															
88	B-3	155+50.00	168+50.00	CL	150.0	1	1								1,096.0		6					
88	F-1	160+95.45	174+11.77	LT						1,317	1,317											
89	B-4	168+50.00	181+00.00	CL											1,100.0		6					
89	G-3	173+37.50	175+58.11	LT																		
90	B-5	181+00.00	193+50.00	CL											1,130.0		4					
91	B-6	193+50.00	196+90.50	CL											259.5		3					
91	B-7	198+98.00	206+04.56	CL											567.6		5					
92	B-8	206+04.56	233+00.00	CL											1,038.0		8					
92	G-4	216+48.59	239+63.10	LT	812.5	1																
93	B-9	233+00.00	241+00.00	CL											696.0	1	2					
93	I-1	241+00.00		CL					1													
94	SA-1	20+90.28		RT									1									
TOTALS CARRIED TO GENERAL SUMMARY					1,950.0	4	3		1	1317	1317		1		7,771	1	42	1				

CALCULATED MSW CHECKED WAA

ROADWAY ESTIMATED QUANTITIES

CLE-32-2.65 (PHASE 7)

74 316

...\303.207\103956_GS701.dgn 11/19/2021 3:33:25 PM mswhitt

SHEET NO.	STATION FROM	STATION TO	203 EXCAVATION CY	203 EMBANKMENT CY			659 SEEDING AND MULCHING SY
	SR-32						
95	133+50.00	134+00.00	2	1			11
96	134+50.00	135+50.00	235	29			320
97	136+00.00	136+50.00	202	9			148
98	137+00.00	137+50.00	176	3			155
99	138+00.00	138+50.00	186	2			111
100	139+00.00	140+00.00	341	5			224
101	140+50.00	141+50.00	338	6			127
102	142+00.00	143+00.00	230	11			195
103	143+50.00	144+50.00	136	11			104
104	145+00.00	145+50.00	85	10			99
105	146+00.00	147+00.00	140	9			149
106	147+50.00	148+00.00	112	2			71
107	148+50.00	149+00.00	134	4			147
108	149+50.00	150+50.00	246	40			403
109	151+00.00	152+00.00	374	26			469
110	152+50.00	153+50.00	343	21			473
111	154+00.00	155+00.00	342	20			476
112	155+50.00	156+50.00	302	24			458
113	157+00.00	158+00.00	229	21			340
114	158+50.00	159+00.00	202	9			322
115	159+50.00	160+50.00	337	18			473
116	161+00.00	162+00.00	253				403
117	162+50.00	163+50.00	280				400
118	164+00.00	165+00.00	358				421
119	165+50.00	166+50.00	435				502
120	167+00.00	168+00.00	341				482
121	168+50.00	169+50.00	314				462
122	170+00.00	171+00.00	272	13			442
123	171+50.00	172+50.00	248	22			492
124	173+00.00	174+00.00	166	56			525
125	174+50.00	175+50.00	213	30			436
126	176+00.00	177+00.00	115	5			65
127	177+50.00	178+50.00	112				
128	179+00.00	180+00.00	116				
129	180+50.00	181+50.00	111				
130	182+00.00	183+00.00	107				
131	183+50.00	184+50.00	108				
132	185+00.00	186+00.00	112				
133	186+50.00	187+50.00	114				
134	188+00.00	189+00.00	98	7			
135	189+50.00	190+50.00	96	6			
136	191+00.00	192+00.00	83	6			
137	192+50.00	193+50.00	80	3			
138	194+00.00	195+00.00	77	5			
139	195+50.00	196+00.00	47	2			
140	196+50.00	197+00.00	39	5			
141	197+50.00	198+00.00	43	11			
142	198+50.00	199+00.00	31	11			
143	199+50.00	200+00.00	31	6			
144	200+50.00	201+00.00	52	3			
145	201+50.00	202+00.00	55	2			
146	202+50.00	203+00.00	52	3			
147	203+50.00	204+00.00	42	5			
148	204+50.00	205+50.00	71	13			
149	206+00.00	206+50.00	79	1			
150	207+00.00	207+50.00	87				
151	208+00.00	208+50.00	85	2			
152	209+00.00	209+50.00	99	1			
153	210+00.00	210+50.00	90	2			
154	211+00.00	211+50.00	90	2			

SHEET NO.	STATION FROM	STATION TO	203 EXCAVATION CY	203 EMBANKMENT CY			659 SEEDING AND MULCHING SY
	SR-32 (CONT.)						
155	212+00.00	212+50.00	85	2			
156	213+00.00	213+50.00	76	4			
157	214+00.00	215+00.00	188	2			
158	215+50.00	216+50.00	139				20
159	217+00.00	232+50.00	127	23			139
160	233+00.00	234+00.00	117	29			146
161	234+50.00	235+50.00	119	61			168
162	236+00.00	237+00.00	106	64			166
163	237+50.00	238+50.00	123	26			124
164	239+00.00	239+50.00	77	10			56
165	240+00.00	240+50.00	115	3			29
166	241+00.00	241+50.00	65				
	SR-32 SUBTOTAL:		11,231	727			10,753
	GRAND TOTALS CARRIED TO GENERAL NOTES						10,753
	GRAND TOTALS CARRIED TO GENERAL SUMMARY		11,231	727			

CALCULATED MSW
CHECKED WAA

EARTHWORK SUBSUMMARY

CLE-32-2.65
(PHASE 7)

SHEET NO.	REF NO.	STATION FROM	STATION TO	CHAIN	SIDE	601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC (CY)	602 CONCRETE MASONRY (CY)	611 15" CONDUIT, TYPE B (FT)	611 15" CONDUIT, TYPE B, AS PER PLAN (FT)	611 18" CONDUIT, TYPE B, 706.02 (FT)	611 24" CONDUIT, TYPE B (FT)	611 24" CONDUIT, TYPE B, 706.02 (FT)	611 42" CONDUIT, TYPE B (FT)	611 CONDUIT, BORED OR JACKED: 15" TYPE B (FT)	611 CONDUIT, BORED OR JACKED: 24" TYPE B (FT)	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 (EACH)	611 MANHOLE NO. 3 (EACH)	611 MANHOLE ADJUSTED TO GRADE (EACH)	611 MANHOLE RECONSTRUCTED TO GRADE (EACH)	670 DITCH EROSION PROTECTION MAT, TYPE A (SY)
197	D1	136+41.79		SR 32	C				10											
197	D2	138+50	138+47.45	SR 32	C			8								1		1		
198	D3	144+65.26	144+41.37	SR 32	C					30						1	1			
199	D4	149+30.48		SR 32	C							10				1				
201	D5	NOT USED																		
201	D6	158+44	158+00	SR 32	C		0.3							85		1				
201	D7	159+05.50		SR 32	LT		0.2													
201	D8	160+22.12		SR 32	LT		0.2													
203	D9	173+47.27	173+76.27	SR 32	C		0.5					5			84	1				
205	D10	183+25		SR 32	C			75								1				
205	D11	184+00		SR 32	C													1		
206	D12	186+00		SR 32	C													1		
206	D13	188+00		SR 32	C													1		
207	D14	191+00		SR 32	C													1		
207	D15	192+50		SR 32	C													1		
207	D16	194+94.86		SR 32	C													1		
207	D17	195+32		SR 32	C								10			1				
208	D18	196+50		SR 32	C														1	
208	D19	200+00		SR 32	C	2	0.3	230								1				
209	D20	205+80.00		SR 32	C		0.5				122					1				
210	D21	210+00		SR 32	C	1	0.3							90		1				
211	D22	214+00		SR 32	C	1	0.3							77		1				
212	D23	236+00		SR 32	C									68		1				
213	D24	241+00	241+50	SR 32	C															142
TOTALS CARRIED TO GENERAL SUMMARY						5	2.5	313	10	30	122	15	10	320	84	12	1	7	1	142

CALCULATED MHT
CHECKED WAA

DRAINAGE ESTIMATED QUANTITIES

CLE-32-2.65
(PHASE 7)

SR-32

CURVE DATA NO. 1
P.I. Sta. 139+83.95
Δ = 3° 53′ 06″ (LT)
Dc = 0° 20′ 00″
R = 17,188.74′
T = 582.99′
L = 1,165.53′
E = 9.88′
e_{max} = NC
PC Sta. 134+00.97
PT Sta. 145+66.49

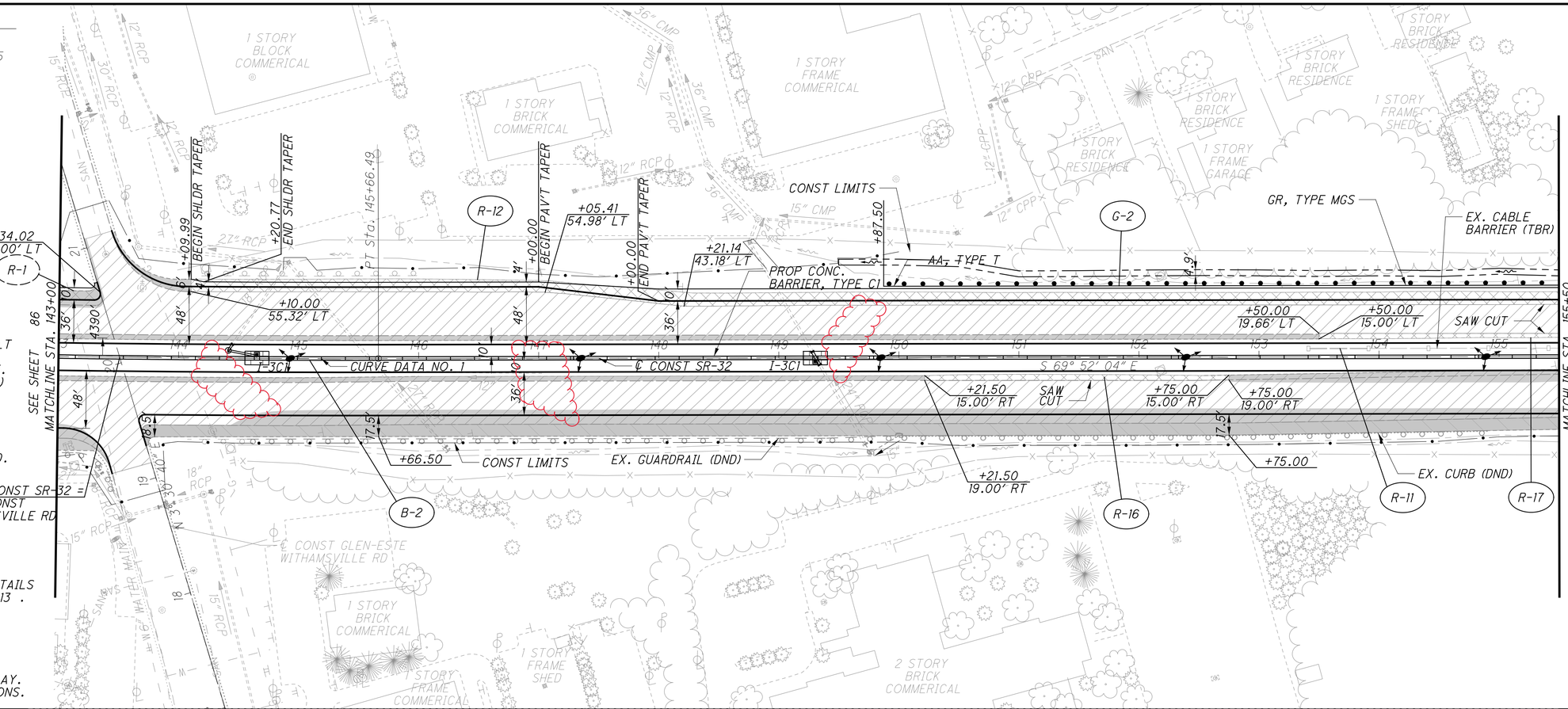
FULL DEPTH ASPHALT PAVEMENT PLACED WITH PHASE 3 OR 5. (PID 103755/103954)

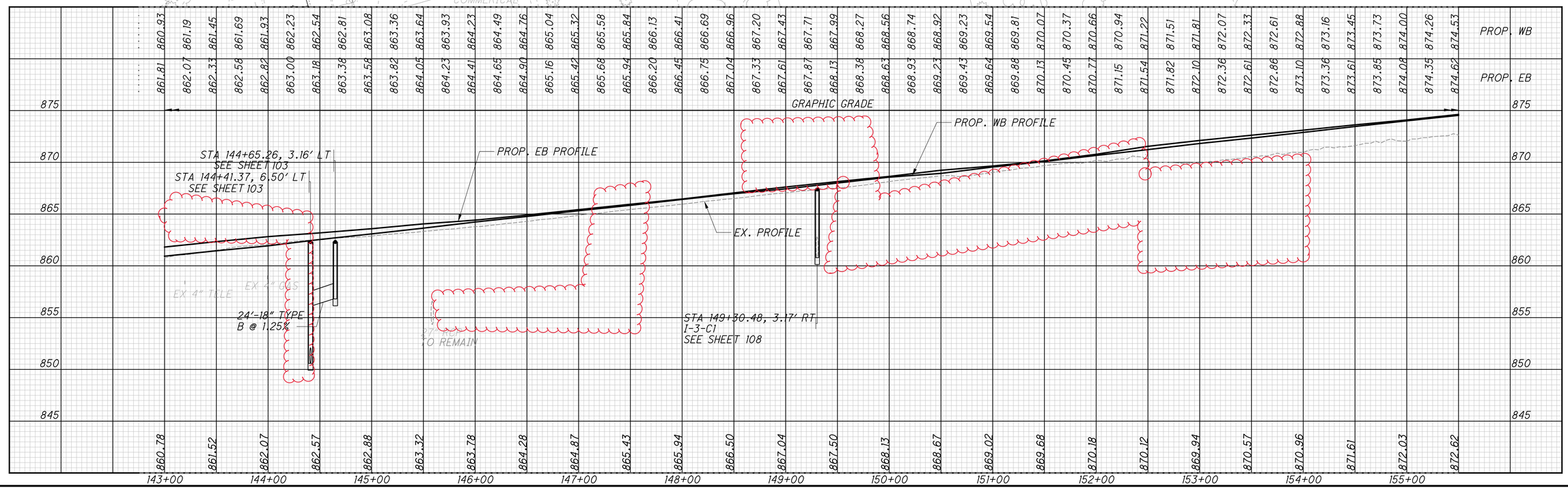
EXISTING ASPHALT PAVEMENT REMOVED.

STA 143+50.93 ℄ CONST SR-32 =
STA 20+04.74 ℄ CONST GLEN ESTE-WITHAMSVILLE RD

FOR UNDERDRAIN DETAILS SEE SHEETS 196 - 213 .

VARIABLE DEPTH PLANING AND OVERLAY. SEE TYPICAL SECTIONS.





HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED GAH CHECKED WAA

PLAN AND PROFILE - SR-32
STA. 143+00 TO STA. 155+50

CLE-32.265
(PHASE 7)

87
316

\303.207\103956_GP703.dgn 11/19/2021 3:34:41 PM mswhitt

RAMP N

CURVE DATA NO. 5
P.I. Sta. 186+38.63
Δ = 1° 39′ 11″ (LT)
Dc = 0° 25′ 00″
R = 13,750.99′
T = 198.38′
L = 396.74′
E = 1.43′
e_{max} = 0.016
PC Sta. 184+40.25
PT Sta. 188+36.99

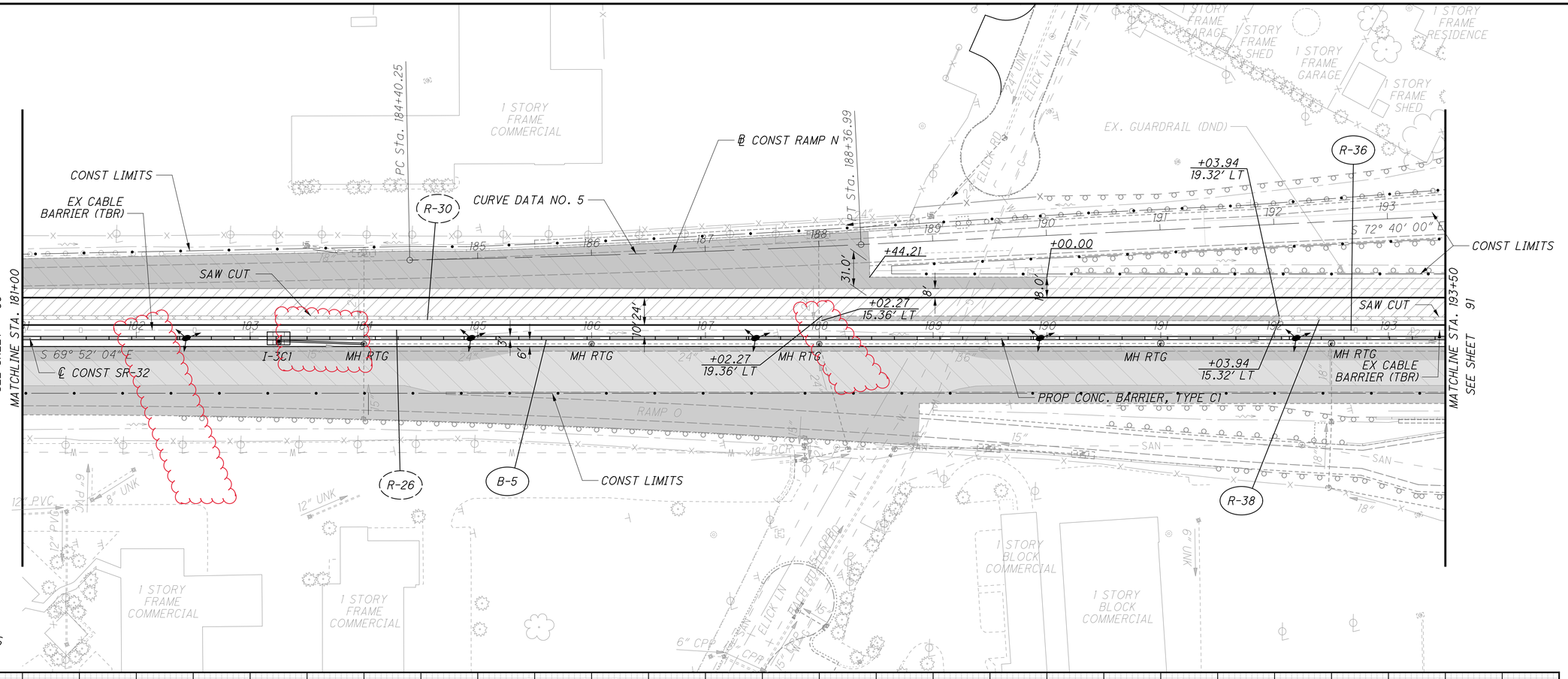
SURFACE COARSE REPLACEMENT

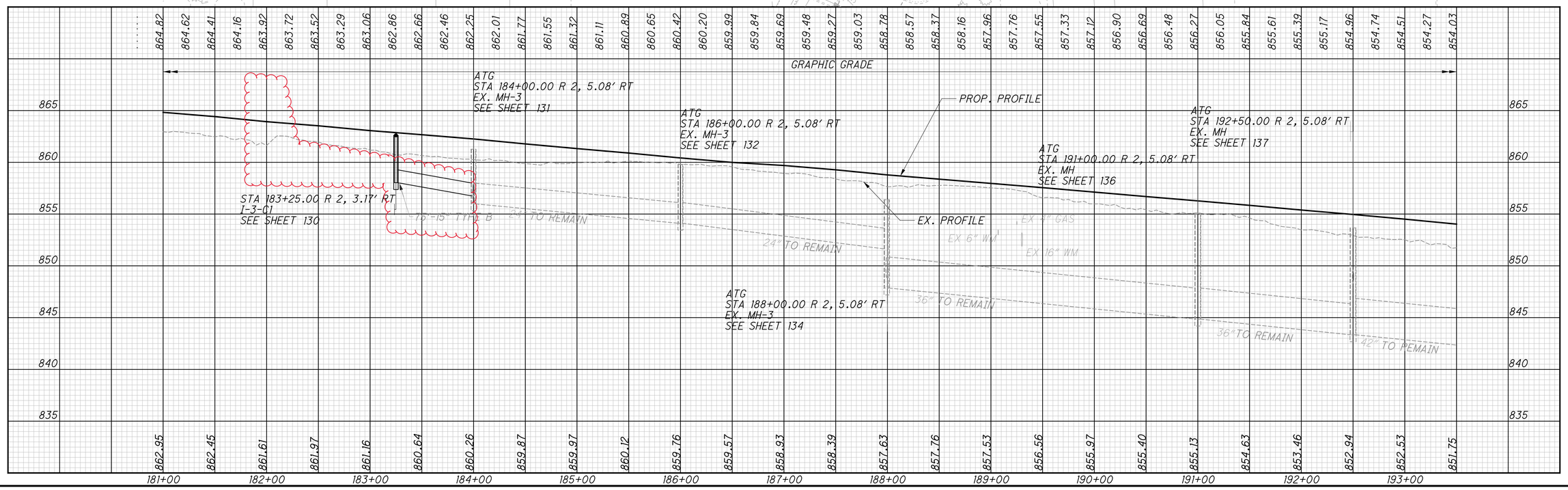
FULL DEPTH ASPHALT PAVEMENT PLACED WITH PHASE 3 OR 5. (PID 103755/103954)

EXISTING ASPHALT PAVEMENT REMOVED.

VARIABLE DEPTH PLANING AND OVERLAY. SEE TYPICAL SECTIONS.

FOR UNDERDRAIN DETAILS SEE SHEETS 196 - 213 .





HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED GAH
CHECKED WAA

PLAN AND PROFILE - SR-32 STA. 181+00 TO STA. 193+50

CLE-32-2.65 (PHASE 7)

90
316

\303.20\103956_GP706.dgn 11/19/2021 3:35:26 PM mswhitt

RAMP Q

CURVE DATA NO. 6

P.I. Sta. 202+25.62

Δ = 8° 16′ 00″ (RT)

Dc = 2° 00′ 00″

R = 2,864.79′

T = 207.03′

L = 413.33′

E = 7.47′

e_{max} = 0.016

PC Sta. 200+18.60

PT Sta. 204+31.93

SR-32

CURVE DATA NO. 2

P.I. Sta. 205+82.41

Δ = 2° 03′ 49″ (LT)

Dc = 1° 30′ 00″

R = 3,819.74′

T = 68.80′

L = 137.58′

E = 0.62′

e_{max} = 0.037

PC Sta. 205+13.61

PCC Sta. 206+51.19

FULL DEPTH ASPHALT PAVEMENT PLACED WITH PHASE 3 OR 5. (PID 103755/103954)

EXISTING ASPHALT PAVEMENT REMOVED.

VARIABLE DEPTH PLANING AND OVERLAY. SEE TYPICAL SECTIONS.

SURFACE COARSE REPLACEMENT

FOR UNDERDRAIN DETAILS SEE SHEETS 196 - 213 .

SEE SHEET 90 MATCHLINE STA. 193+50

SEE SHEET 92 MATCHLINE STA. 206+00

STA 197+94.36 ℄ SR-32 = STA 341+54.82 ℄ BACH-BUXTON RD

℄ CONST RAMP N

℄ CONST RAMP Q

CURVE DATA NO. 6

CONST LIMITS

EX. GUARDRAIL (DND)

PROP CONC. BARRIER, TYPE C1

℄ CONST SR-32

SAW CUT

EX CABLE BARRIER (TBR)

CURVE DATA NO. 2

RCP C

HW-2.1 OR 2.2

PC Sta. 200+18.60

PT Sta. 204+31.93

PC Sta. 205+13.61

S 72° 40′ 00″ E

S 64° 21′ 00″ E

S 69° 52′ 04″ E

I-3C1

MH RTG

R-36

R-38

R-43

R-44

B-6

B-7

RAMP O

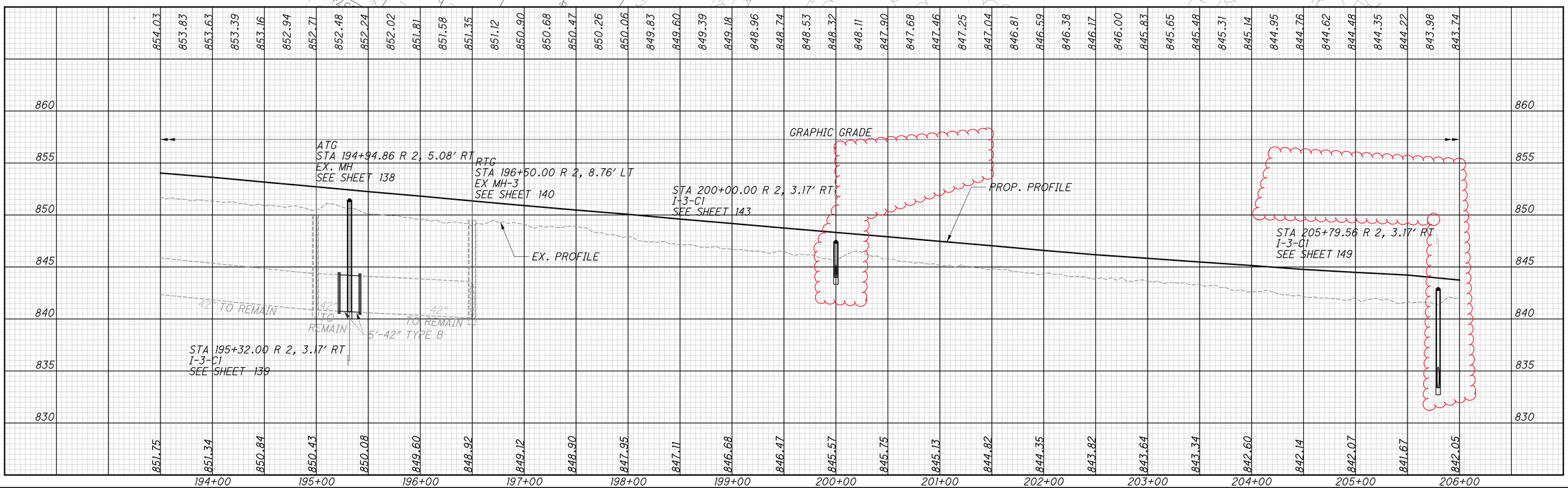
RAMP P

℄ BACH BUXTON RD

1 STORY FRAME RESIDENCE

1 STORY FRAME SHED

1 STORY BLOCK COMMERICAL



HORIZONTAL SCALE IN FEET

CALCULATED GAH CHECKED WAA

PLAN AND PROFILE - SR-32
STA 193+50 TO STA 206+00

CLE-32-2.65
(PHASE 7)

91
316

...\303.207\103956_GP707.dgn 11/19/2021 3:35:31 PM mswhitt

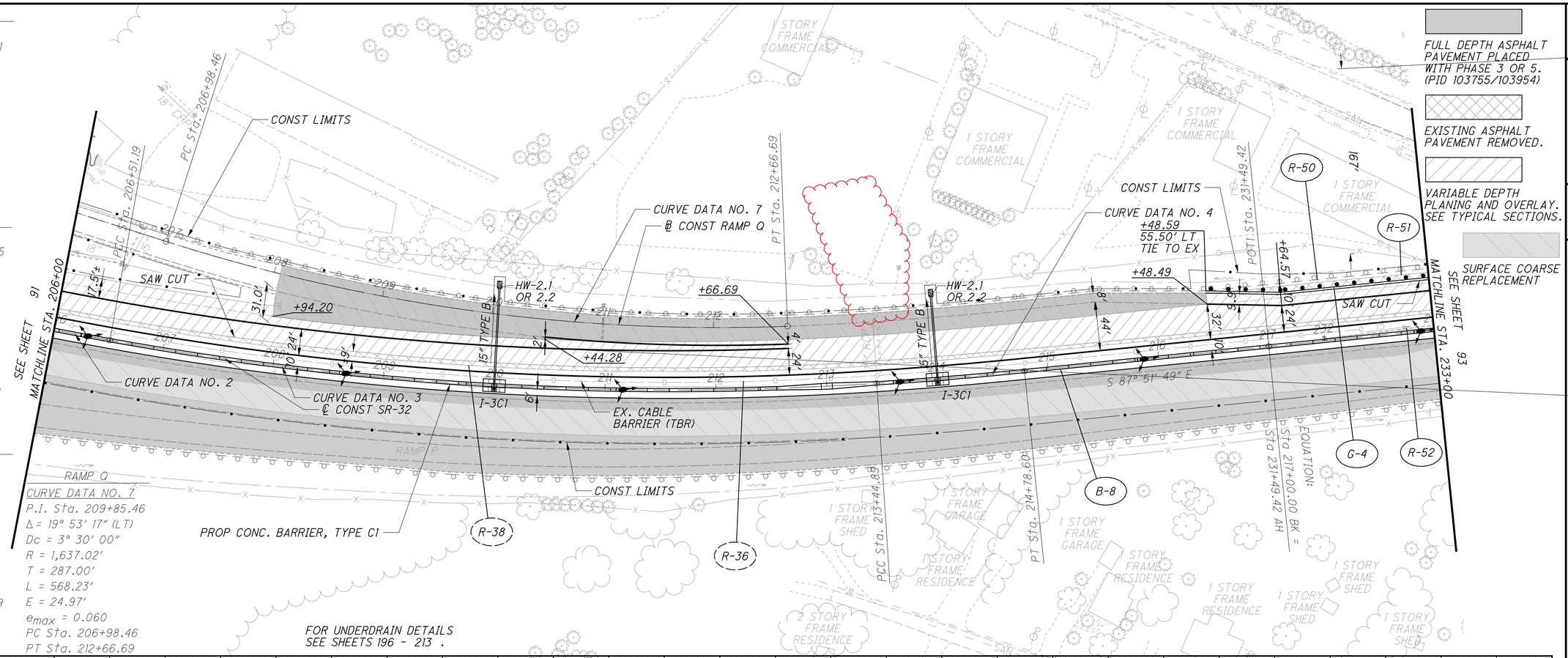
SR-32
CURVE DATA NO. 2
P.I. Sta. 205+82.41
Δ = 2° 03′ 49″ (LT)
Dc = 1° 30′ 00″
R = 3,819.74′
T = 68.80′
L = 137.58′
E = 0.62′
e_{max} = 0.037
PC Sta. 205+13.61
PCC Sta. 206+51.19

SR-32
CURVE DATA NO. 3
P.I. Sta. 209+99.75
Δ = 13° 55′ 35″ (LT)
Dc = 2° 00′ 27″
R = 2,854.00′
T = 348.57′
L = 693.70′
E = 21.21′
e_{max} = 0.045
PCC Sta. 206+51.19
PCC Sta. 213+44.89

SR-32
CURVE DATA NO. 4
P.I. Sta. 214+11.75
Δ = 2° 00′ 21″ (LT)
Dc = 1° 30′ 00″
R = 3,819.74′
T = 66.86′
L = 133.72′
E = 0.59′
e_{max} = 0.037
PCC Sta. 213+44.89
PT Sta. 214+78.60

RAMP Q
CURVE DATA NO. 7
P.I. Sta. 209+85.46
Δ = 19° 53′ 17″ (LT)
Dc = 3° 30′ 00″
R = 1,637.02′
T = 287.00′
L = 568.23′
E = 24.97′
e_{max} = 0.060
PC Sta. 206+98.46
PT Sta. 212+66.69

FOR UNDERDRAIN DETAILS
SEE SHEETS 196 - 213 .

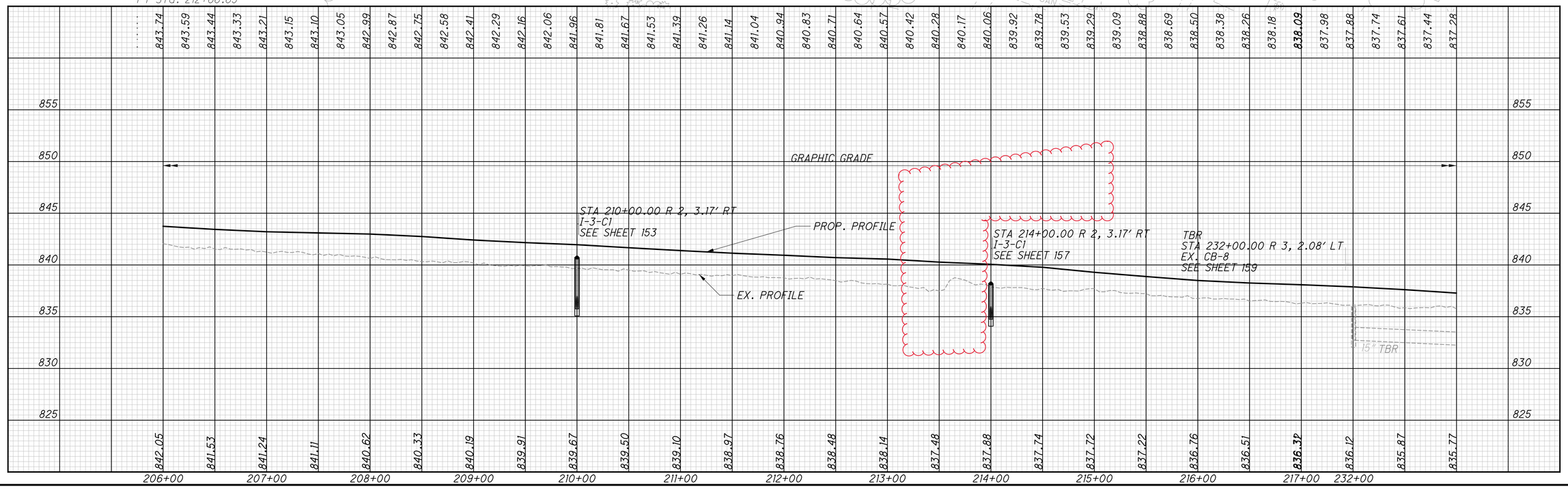


FULL DEPTH ASPHALT PAVEMENT PLACED WITH PHASE 3 OR 5. (PID 103755/103954)

EXISTING ASPHALT PAVEMENT REMOVED.

VARIABLE DEPTH PLANING AND OVERLAY. SEE TYPICAL SECTIONS.

SURFACE COARSE REPLACEMENT



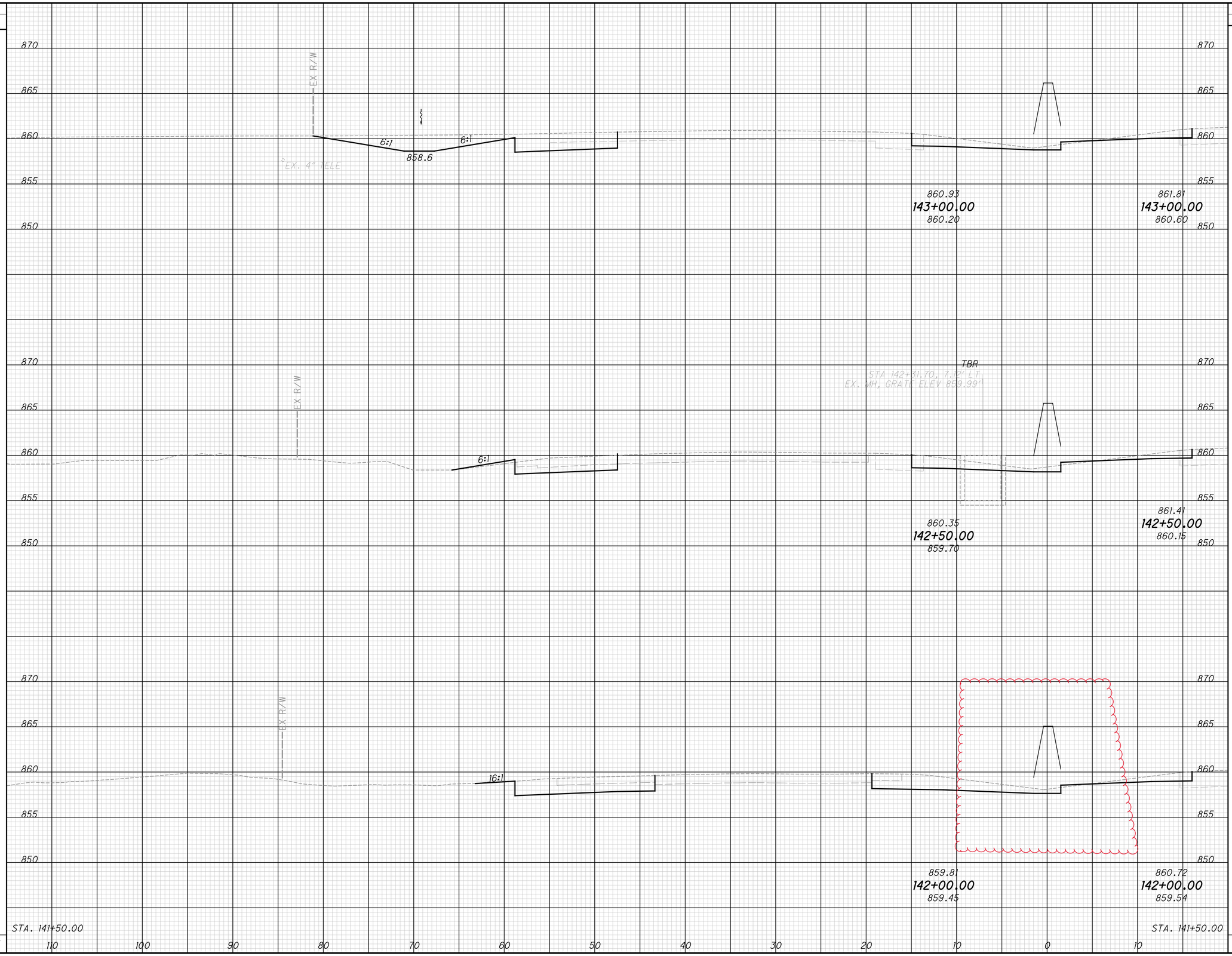
HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED GAH
CHECKED WAA

PLAN AND PROFILE - SR-32 STA. 206+00 TO STA 233+00

CLE-32-2.65
(PHASE 7)

SEEDING END WIDTH	SEEDING SQ. YDS.
26	101
10	50
8	44
8	195



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
52	2		
		69	5
23	3		
		62	4
44	1		
		99	2
63	1		
		230	11

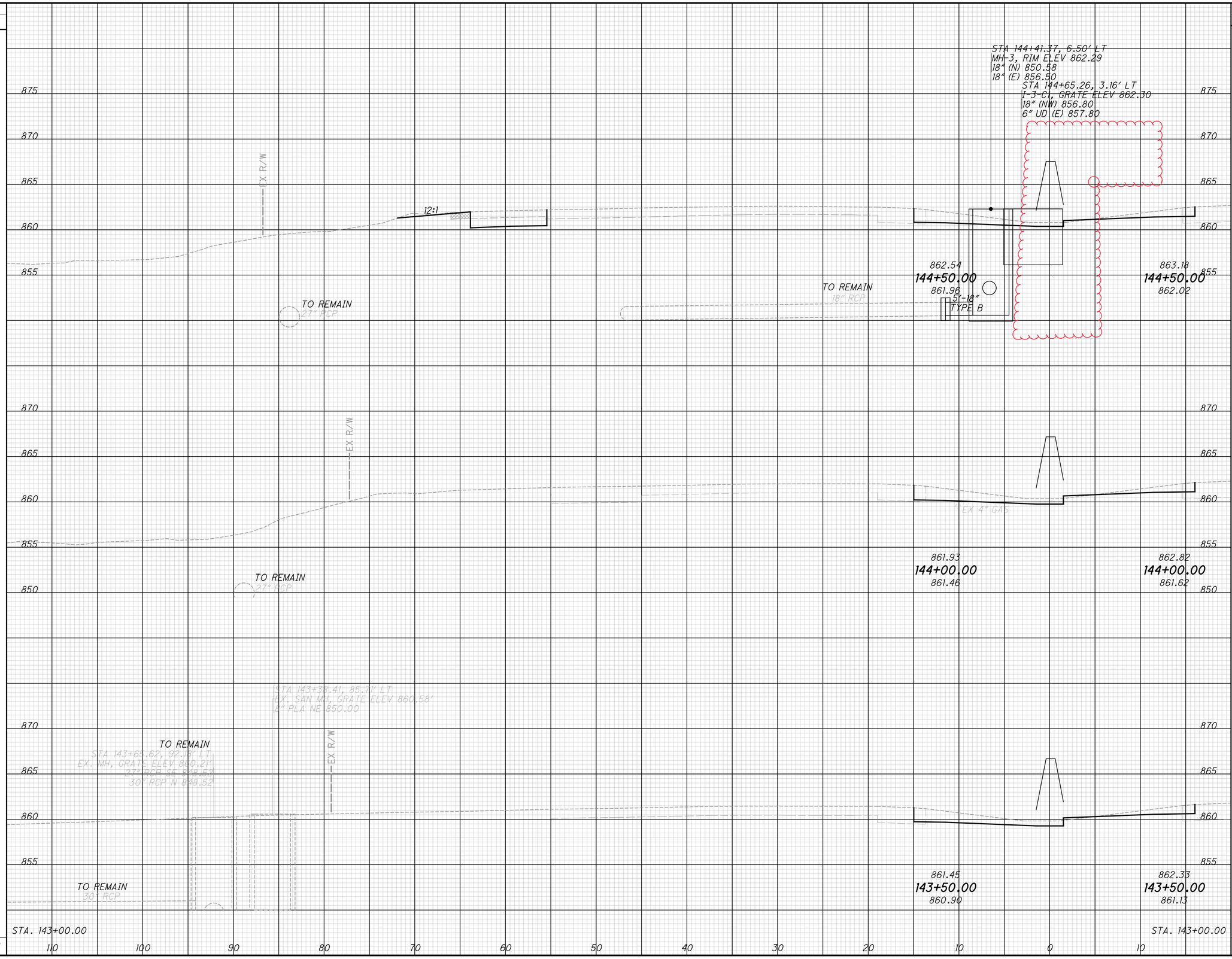
CALCULATED GAH
CHECKED WAA

CROSS SECTIONS SR-32 LT
STA. 142+00.00 TO STA. 143+00.00

CLE-32-2.65
(PHASE 7)

102
316

SEEDING	
END WIDTH	SQ. YDS.
11	32
0	0
0	72
26	104



END AREA	
CUT	FILL
26	3
18	2
17	2
52	2

VOLUME	
CUT	FILL
40	4
32	3
64	4
136	11

CALCULATED GAH
CHECKED WAA

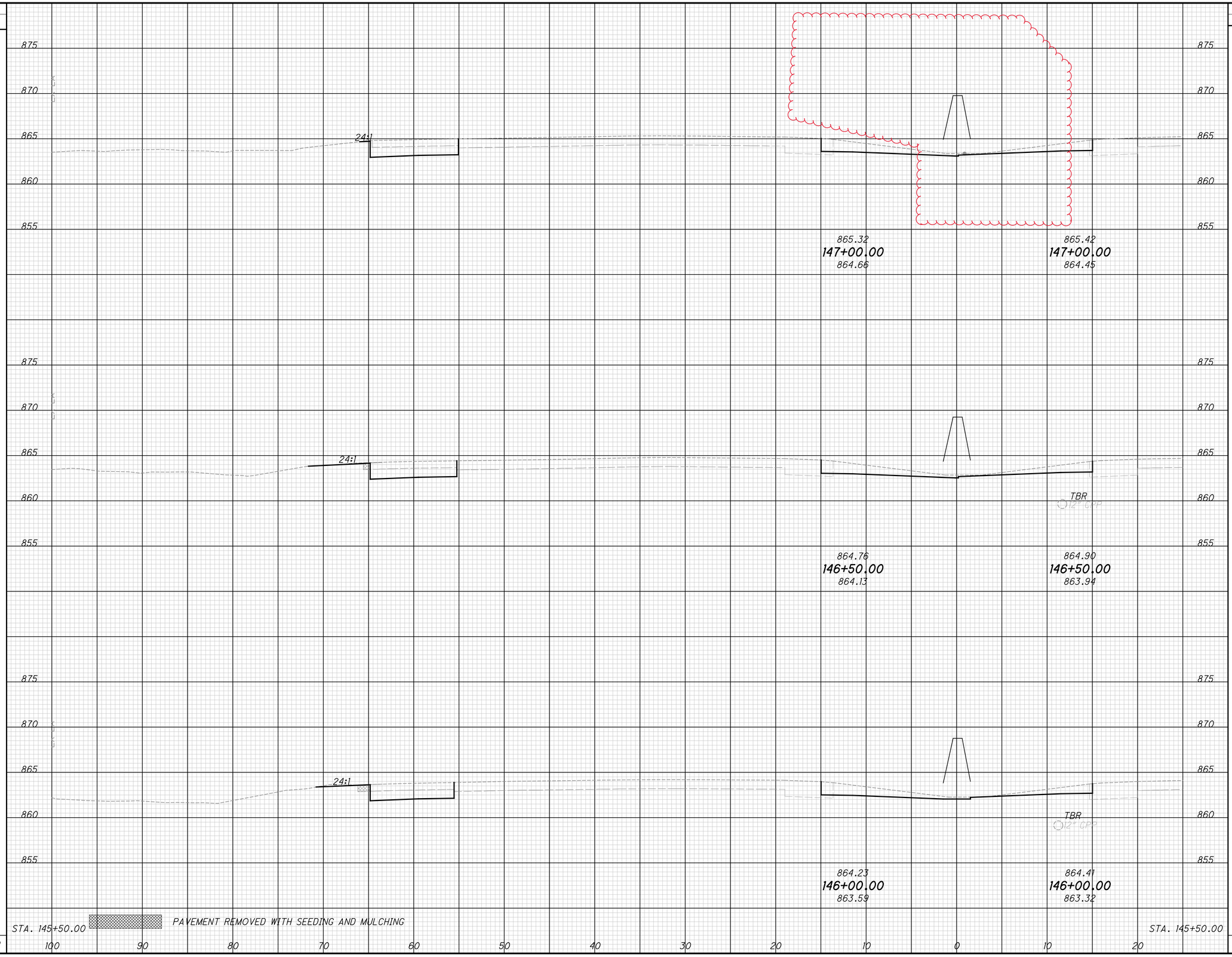
CROSS SECTIONS SR-32 LT
STA. 143+50.00 TO STA. 144+50.00

CLE-32-2.65
(PHASE 7)

103
316

..\303.207\103956_XS701L_1.dgn 11/19/2021 3:40:22 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.
5	41
10	54
9	54
10	149



END AREA	
CUT	FILL
27	1
28	1
26	2
17	2

VOLUME	
CUT	FILL
51	2
50	3
39	4
140	9

CALCULATED	CHECKED
GAH	WAA

CROSS SECTIONS SR-32 LT
STA. 146+00.00 TO STA. 147+00.00

CLE-32-2.65 (PHASE 7)

SEEDING END WIDTH	SEEDING SQ. YDS.
30	167
30	138
20	98
16	403

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
70	10	107	20
46	12	74	15
34	5	65	5
36	1	246	40

CALCULATED GAH
CHECKED WAA

TO REMAIN
STA 150+49.80, 103.86' LT
EX. OB, GRATE ELEV 863.40'
15" CMP, NW 856.93

EX LA

2:1
865.6
6:1
10:1

868.92
150+50.00
868.29

869.23
150+50.00
868.54

3:1
865.0

868.56
150+00.00
867.90

868.63
150+00.00
867.67

TO REMAIN
15" CMP

STA 149+30.48, 3.17' RT
I-3-C1, GRATE ELEV 867.37
24" RCP, 860.79
24" CSP, 860.79
6" UD (E) 863.27

MASONRY COLLAR
PER DM-1.1

867.99
149+50.00
867.29

868.13
149+50.00
867.15

5'-24" TYPE B, 706.02

TO REMAIN
15" CMP

STA. 149+00.00

STA. 149+00.00

110 100 90 80 70 60 50 40 30 20 10 0 10

CROSS SECTIONS SR-32 LT
STA. 149+50.00 TO STA. 150+50.00

CLE-32-2.65
(PHASE 7)

108
316

\303.207\103956_XS701L_1.dgn 11/19/2021 3:44:53 PM mswhitt

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
29	160	74	3	132	6
29	153	69	4	120	7
26	156	62	4	122	13
30	469	70	10	374	26

CALCULATED GAH
CHECKED WAA

CROSS SECTIONS SR-32 LT
STA. 151+00.00 TO STA. 152+00.00

CLE-32-2.65 (PHASE 7)

109
316

EX LA

880
875
870
865
860

2:1
3:1
4:1
10:1

868.3
867.8
867.3

870.66
152+00.00
869.99

870.77
152+00.00
870.10

870.07
151+50.00
869.38

870.13
151+50.00
869.52

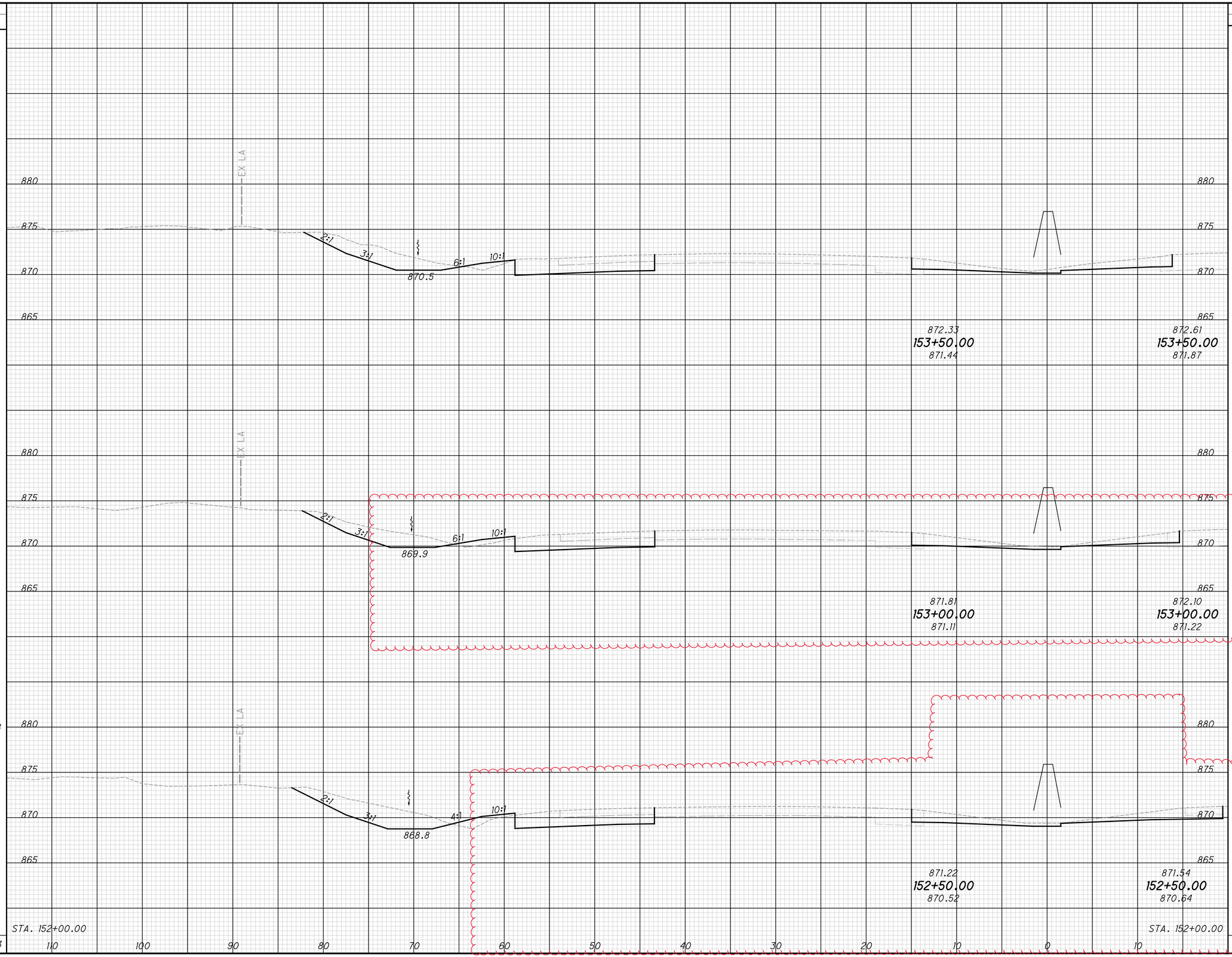
869.54
151+00.00
868.76

869.64
151+00.00
868.85

STA. 150+50.00

110 100 90 80 70 60 50 40 30 20 10 0 10

SEEDING END WIDTH	SEEDING SQ. YDS.
28	154
28	158
29	161
29	473



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
56	4		
54	4	102	7
66	4	111	8
74	3	130	6
		343	21

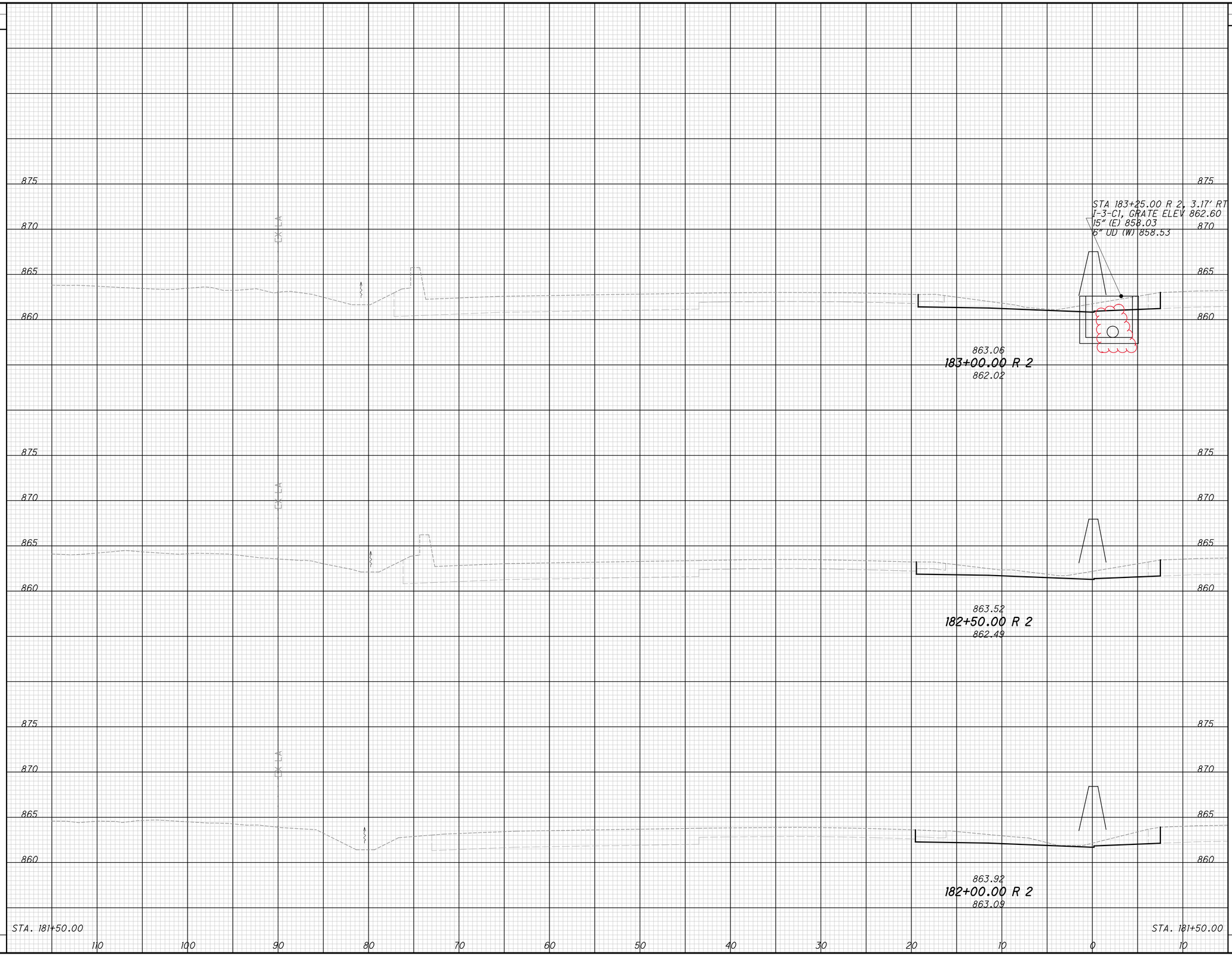
CALCULATED GAH
CHECKED WAA

CROSS SECTIONS SR-32 LT
STA. 152+50.00 TO STA. 153+50.00

CLE-32-2.65
(PHASE 7)

110
316

SEEDING	
END WIDTH	SQ. YDS.
0	0
0	0
0	0
0	0
0	0



END AREA		VOLUME	
CUT	FILL	CUT	FILL
19	0		
20	0	36	0
18	0	36	0
20	0	35	0
20	0	107	0

CALCULATED GAH
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA._182+00.00_TO_STA._183+00.00

CLE-32-2.65
(PHASE 7)

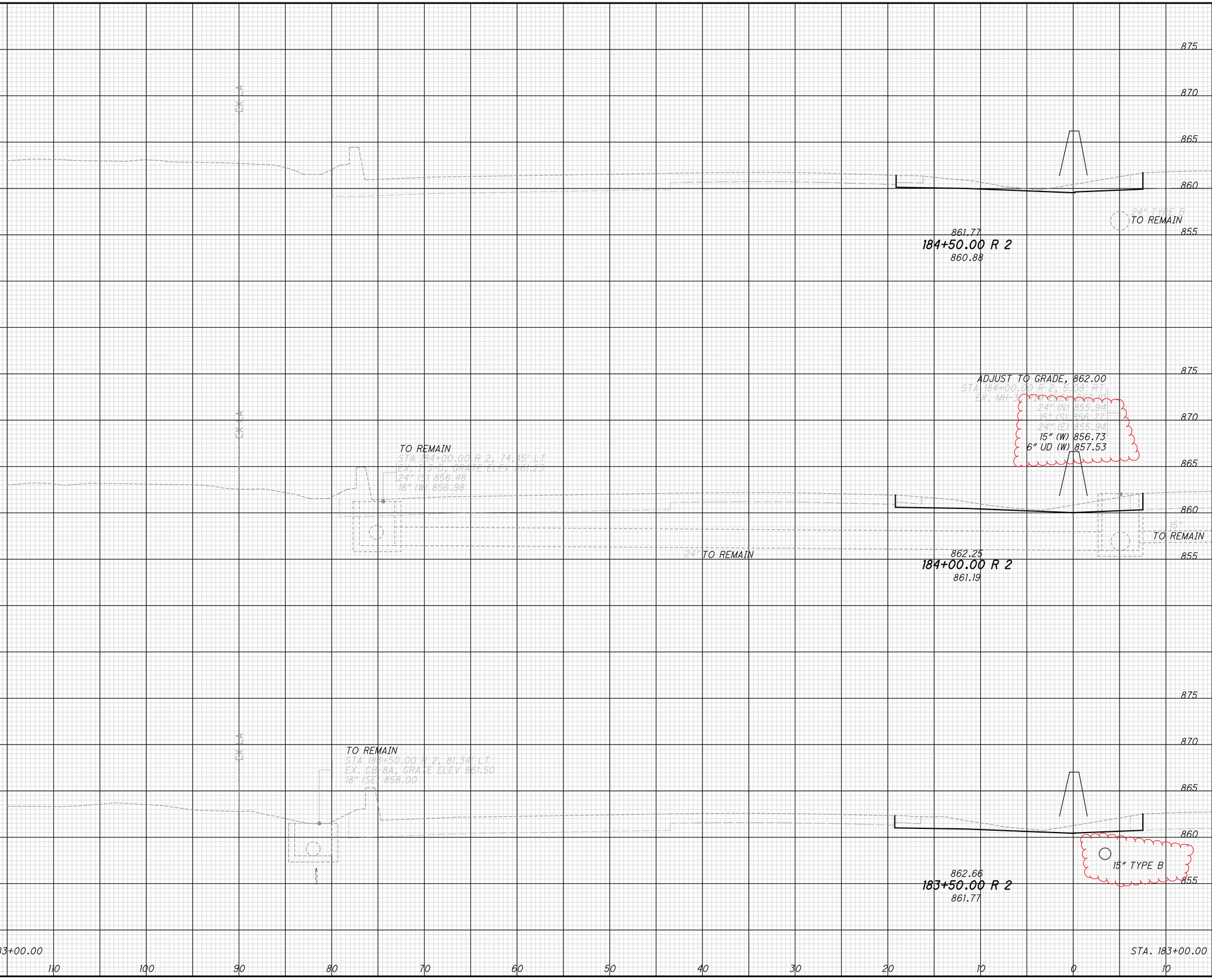
130
316

...\303.207\103956_XS701L_2.dgn 11/19/2021 3:45:35 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.
0	0
0	0
0	0
0	0
0	0

END AREA		VOLUME	
CUT	FILL	CUT	FILL
20	0		
		35	0
18	0		
		36	0
20	0		
		37	0
19	0		
		108	0

CALCULATED GAH
CHECKED WAA



CROSS SECTIONS - SR-32 LT
STA._183+50.00_TO_STA._184+50.00

CLE-32-2.65
(PHASE 7)

131
316

SEEDING	
END WIDTH	SQ. YDS.
0	0
0	0
0	0
0	0
0	0

END AREA	
CUT	FILL
20	1
19	1
15	3
19	0

VOLUME	
CUT	FILL
36	2
31	3
31	2
98	7

CALCULATED GAH
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA._188+00.00_TO_STA._189+00.00

CLE-32-2.65
(PHASE 7)

134
316

857.96
189+00.00 R 2
857.04

858.37
188+50.00 R 2
857.47

858.78
188+00.00 R 2
857.15

EX. 6" WATER LINE

TO REMAIN
36" TYPE B

TO REMAIN
21" RCP

TO REMAIN
STA 188+00.00 E 2, 90.43' LT
EX. 1'-3"-0, GRATE ELEV 857.37
24" (S) 850.31
24" (E) 850.31

ADJUST TO GRADE, 858.48
STA 188+00.00 R 2, 5.09' RT
EX. MH-3, RIM ELEV 858.58
24" (W) 851.63
36" (E) 847.85
24" (S) 848.90
24" (N) 848.65

6" UD (W) 854.02

STA. 187+50.00

STA. 187+50.00

TO REMAIN

TO REMAIN

870 865 860 855 850

110 100 90 80 70 60 50 40 30 20 10 0 10

SEEDING	
END WIDTH	SQ. YDS.
0	0
0	0
0	0
0	0

CX LA

CX LA

CX LA

870
865
860
855
850
845

ADJUST TO GRADE, 852.16
SANITARY MANHOLE
EX. MH-3, RIM ELEV 852.16
42" (W) 840.85
42" (E) 840.85
15" (SW) 842.02
6" UD (W) 847.75

852.71
195+00.00 R 2
851.53

15"
TO REMAIN

853.16
194+50.00 R 2
851.92

TO REMAIN
42" TYPE B

853.63
194+00.00 R 2
852.51

TO REMAIN
42" TYPE B

STA. 193+50.00

STA. 193+50.00

110 100 90 80 70 60 50 40 30 20 10 0 10

END AREA	
CUT	FILL
12	1
14	1
14	1
14	1

VOLUME	
CUT	FILL
24	2
26	1
27	2
77	5

CALCULATED GAH
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA._194+00.00_TO_STA._195+00.00

CLE-32-2.65
(PHASE 7)

138
316

...\303.207\103956_XS701L_2.dgn 11/19/2021 3:46:41 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.
0	
	0
0	
	0
0	
	0

STA. 199+00.00

STA 200+00.00 R 2, 3.17' RT
I-3-C1, GRATE ELEV 847.41
15" (N) 843.99
6" UD (W) 844.49

236'-15" TYPE B @ 2.55%

848.32
200+00.00 R 2
847.14

848.74
199+50.00 R 2
847.40

STA. 199+00.00

END AREA		VOLUME	
CUT	FILL	CUT	FILL
12	2		
		18	2
8	1		
		13	4
6	4		
		31	6

CALCULATED GAH
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA._199+50.00_TO_STA._200+00.00

CLE-32-2.65
(PHASE 7)

143
316

...\303.207\103956_XS701L_2.dgn 11/19/2021 3:47:14 PM mswhitt

SEEDING	
END WIDTH	SQ. YDS.
0	0
	0
	0
	0
	0
	0
	0

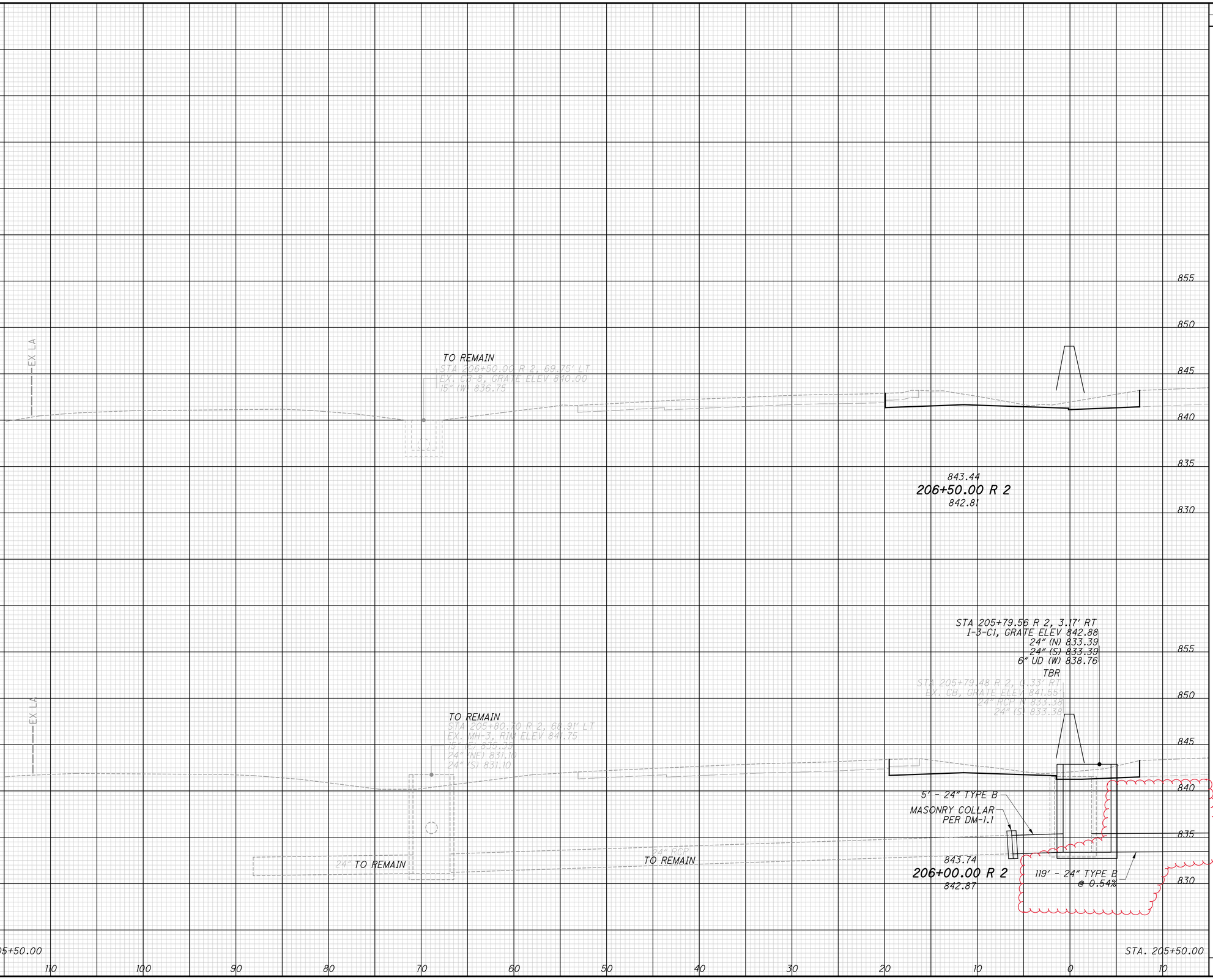
END AREA		VOLUME	
CUT	FILL	CUT	FILL
24	0		
		44	0
24	0		
		35	1
14	2		
		79	1

CALCULATED GAH
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA._206+00.00_TO_STA._206+50.00

CLE-32-2.65 (PHASE 7)

149
316



SEEDING	
END WIDTH	SQ. YDS.
0	0
0	0
0	0
0	0

END AREA	
CUT	FILL
25	0
24	0
25	0

VOLUME	
CUT	FILL
45	1
45	1
90	2

CALCULATED GAH
CHECKED WAA

855
850
845
840
835
830

EX LA

841.67
210+50.00 R 2
841.17

841.96
210+00.00 R 2
841.22

STA 210+00.00 R 2, 3.17' RT
I-3-C1, GRATE ELEV 840.86
15" (N) 835.75
6" UD (W) 836.67

STA 210+00.00 R 2, 87.83' LT
HW-2.1 OR 2.2
15" INV = 832.92

90'-15" TYPE B @ 3.14%
CAN 1977302

6'L x 4'W x 1.5'D
RCP, TYPE C W/
GEOTEXTILE FABRIC

STA. 209+50.00

110 100 90 80 70 60 50 40 30 20 10 0 10

STA. 209+50.00

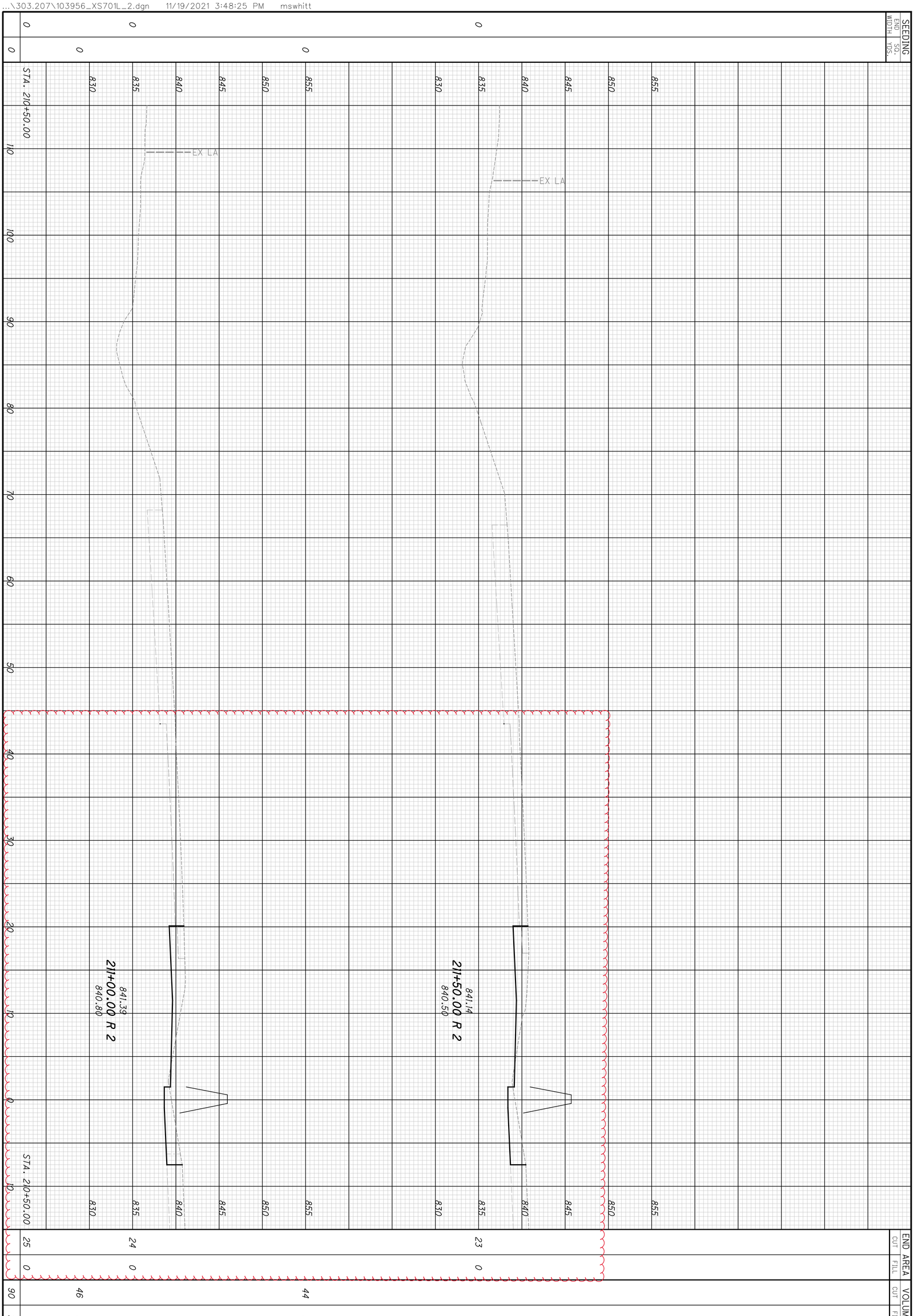
CROSS SECTIONS - SR-32 LT
STA._210+00.00_TO_STA._210+50.00

CLE-32-2.65
(PHASE 7)

153
316

..\303.207\103956_XS701L_2.dgn 11/19/2021 3:48:24 PM mswhitt

...\303.207\103956_XS701L_2.dgn 11/19/2021 3:48:25 PM mswhitt



154
316

CLE-32-2.65 (PHASE 7)

CROSS SECTIONS - SR-32 LT

STA._211+00.00_TO_STA._211+50.00

CALCULATED GAH

CHECKED WAA

SEEDING	
END WIDTH	SQ. YDS.
0	0
0	0
0	0
0	0
0	0

END AREA	
CUT	FILL
24	0
23	0

VOLUME	
CUT	FILL
43	1
42	1
85	2

CALCULATED GAH
CHECKED WAA

CROSS SECTIONS - SR-32 LT
STA._212+50.00_TO_STA._212+00.00

CLE-32-2.65
(PHASE 7)

155
316

840.71
212+50.00 R 2
840.16

840.94
212+00.00 R 2
840.13

EX LA

STA. 211+50.00

STA. 211+50.00

855 850 845 840 835 830

110 100 90 80 70 60 50 40 30 20 10 0 10

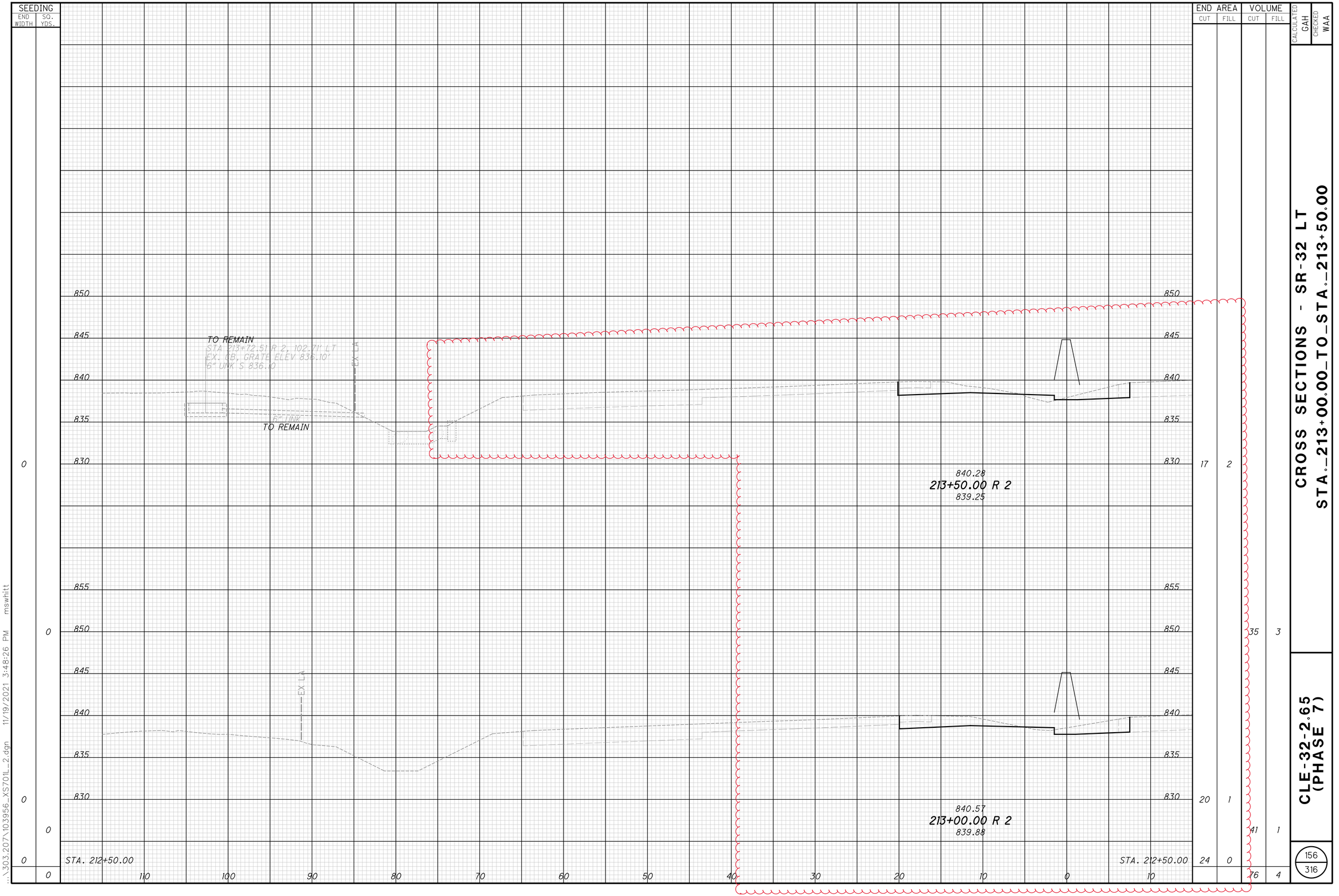
SEEDING	
END WIDTH	SQ. YDS.
0	0
0	0
0	0

END AREA	
CUT	FILL
17	2
20	1
24	0

VOLUME	
CUT	FILL
35	3
41	1
76	4

CALCULATED GAH

CHECKED WAA

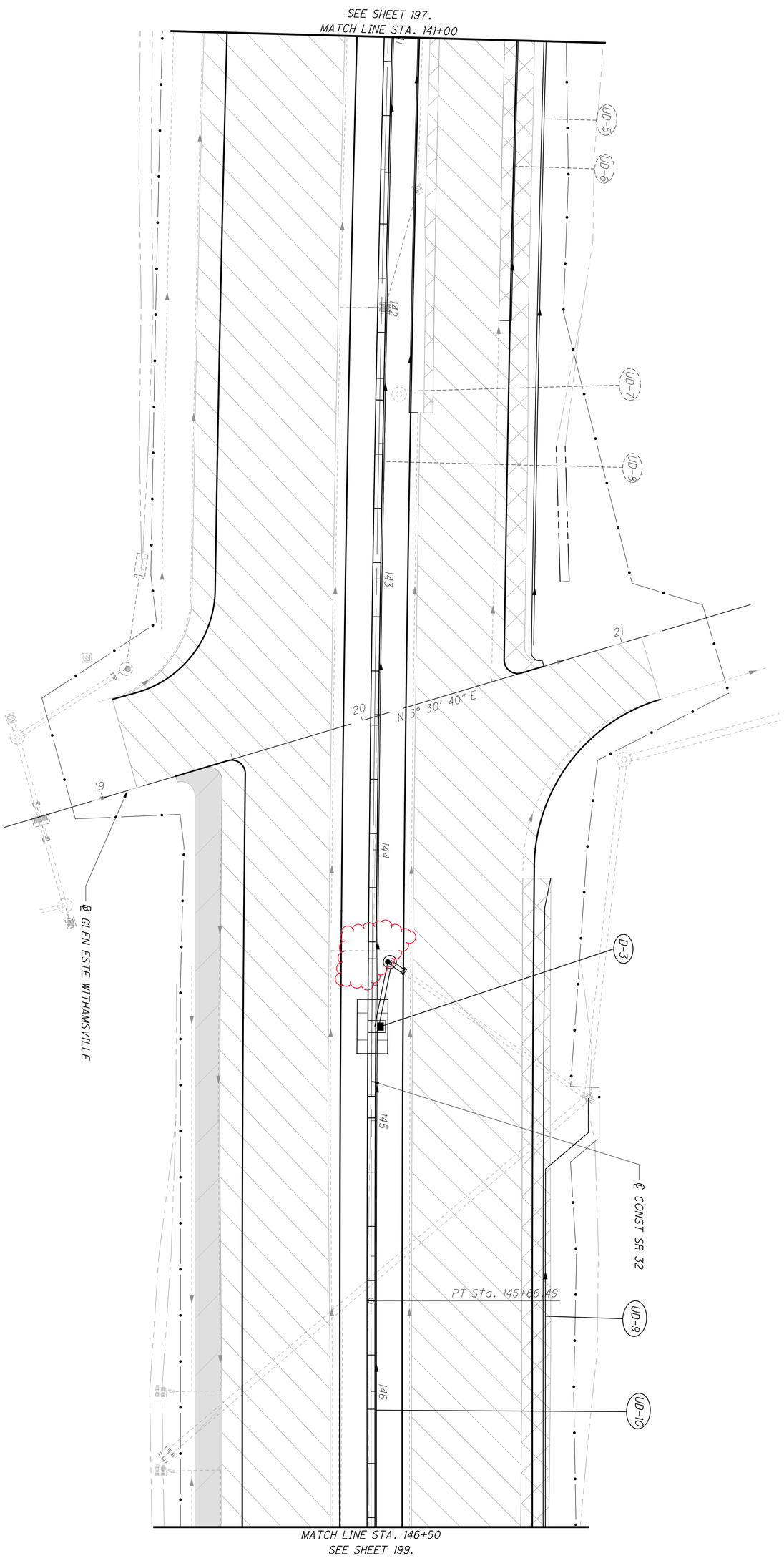


CROSS SECTIONS - SR-32 LT
STA._213+00.00_TO_STA._213+50.00

CLE-32-2.65
(PHASE 7)

156
316

\303.207\103956_XS701L_2.dgn 11/19/2021 3:48:26 PM mswhitt

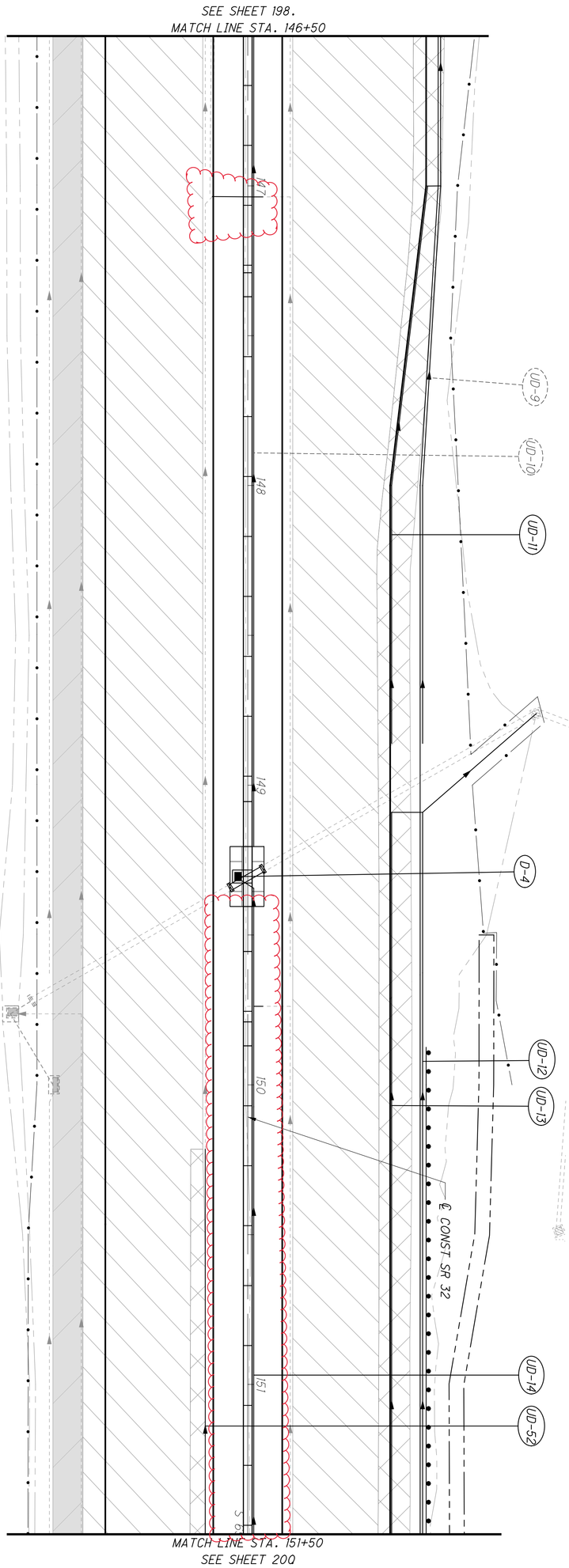


CLE-32-2.65
(PHASE 7)

DRAINAGE AND UNDERDRAIN PLAN - SR-32
STA. 141+00 TO STA. 146+50

CALCULATED MHT
CHECKED WAA

0 10 20 40
HORIZONTAL SCALE IN FEET

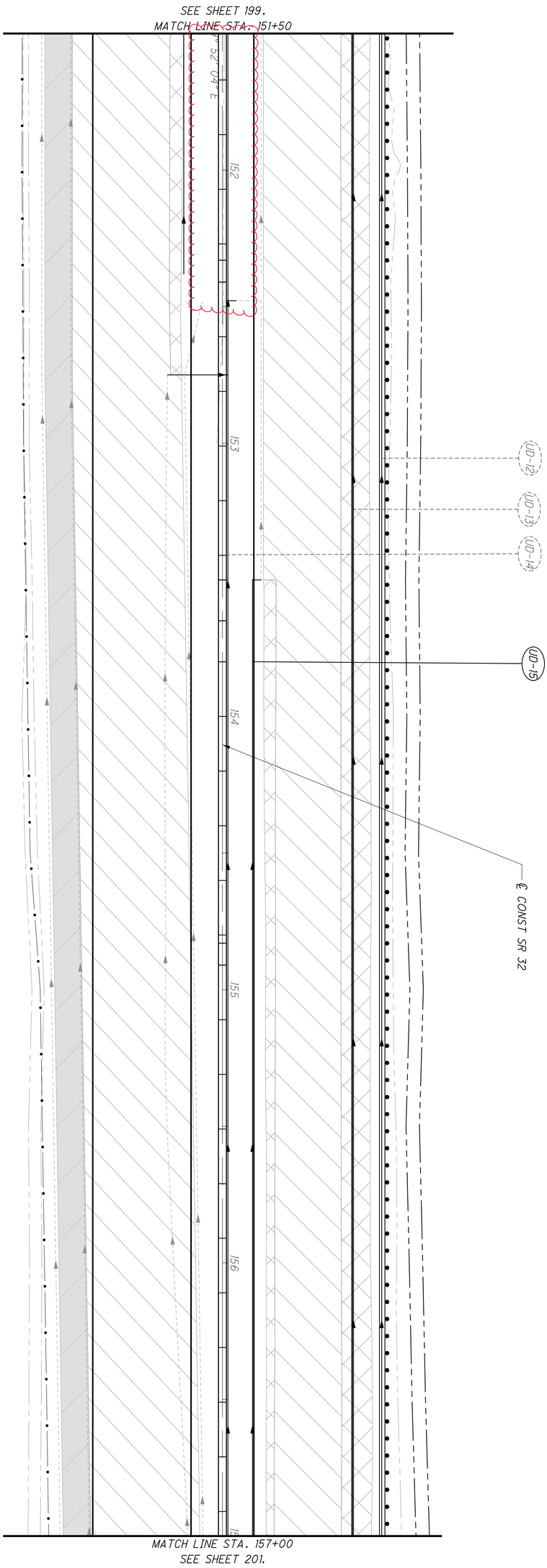


CLE-32-2.65
(PHASE 7)

DRAINAGE AND UNDERDRAIN PLAN - SR-32
STA. 146+50 TO STA. 151+50

CALCULATED MHT
CHECKED WAA

0 10 20 40
HORIZONTAL SCALE IN FEET



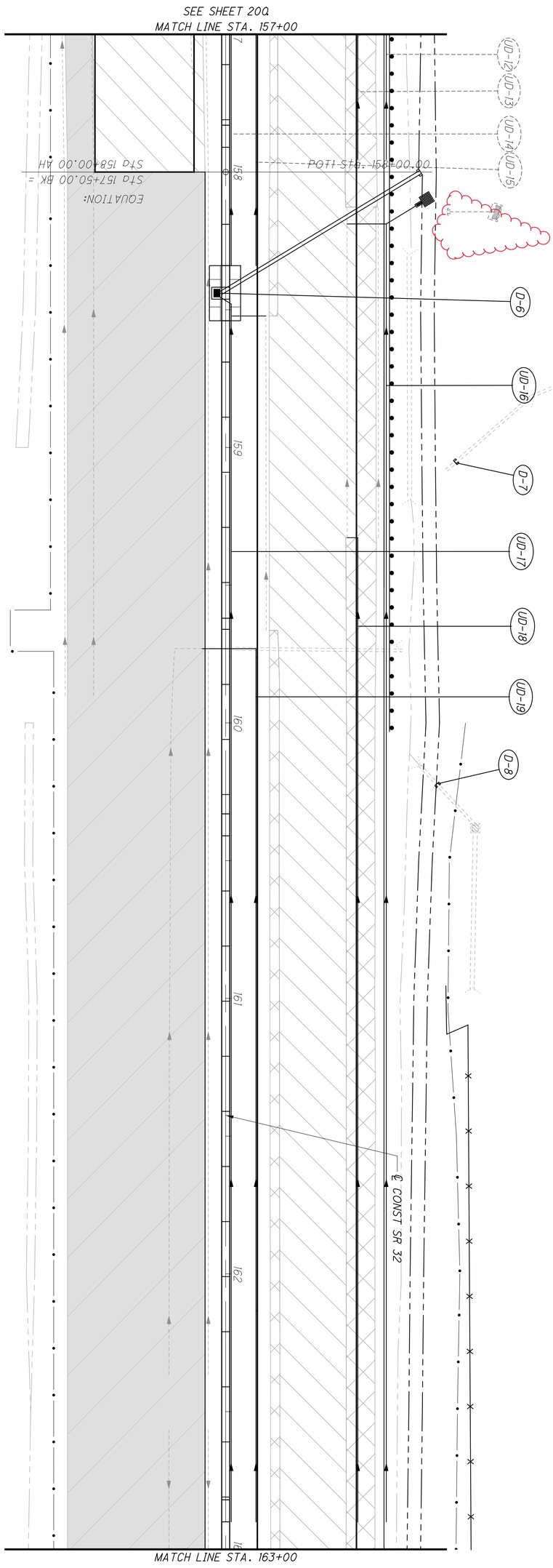
200
316

CLE-32-2.65
(PHASE 7)

DRAINAGE AND UNDERDRAIN PLAN - SR-32
STA. 151+50 TO STA. 157+00

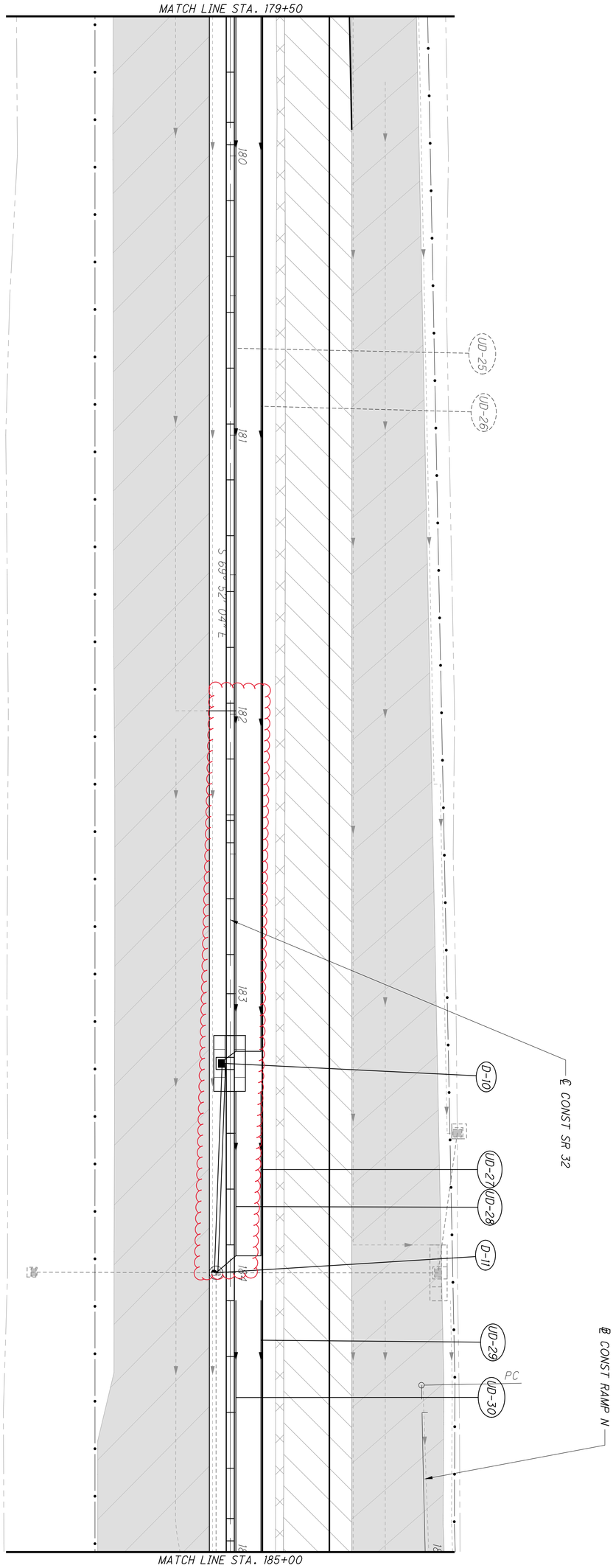
CALCULATED MHT
CHECKED WAA

0 20
10 40
HORIZONTAL SCALE IN FEET



201 / 316	CLE-32-2.65 (PHASE 7)	DRAINAGE AND UNDERDRAIN PLAN - SR-32 STA. 157+00 TO STA. 163+00	CALCULATED MHT / CHECKED WAA	0 20 / 10 40 HORIZONTAL SCALE IN FEET

SEE SHEET 204
MATCH LINE STA. 179+50



MATCH LINE STA. 185+00
SEE SHEET 206

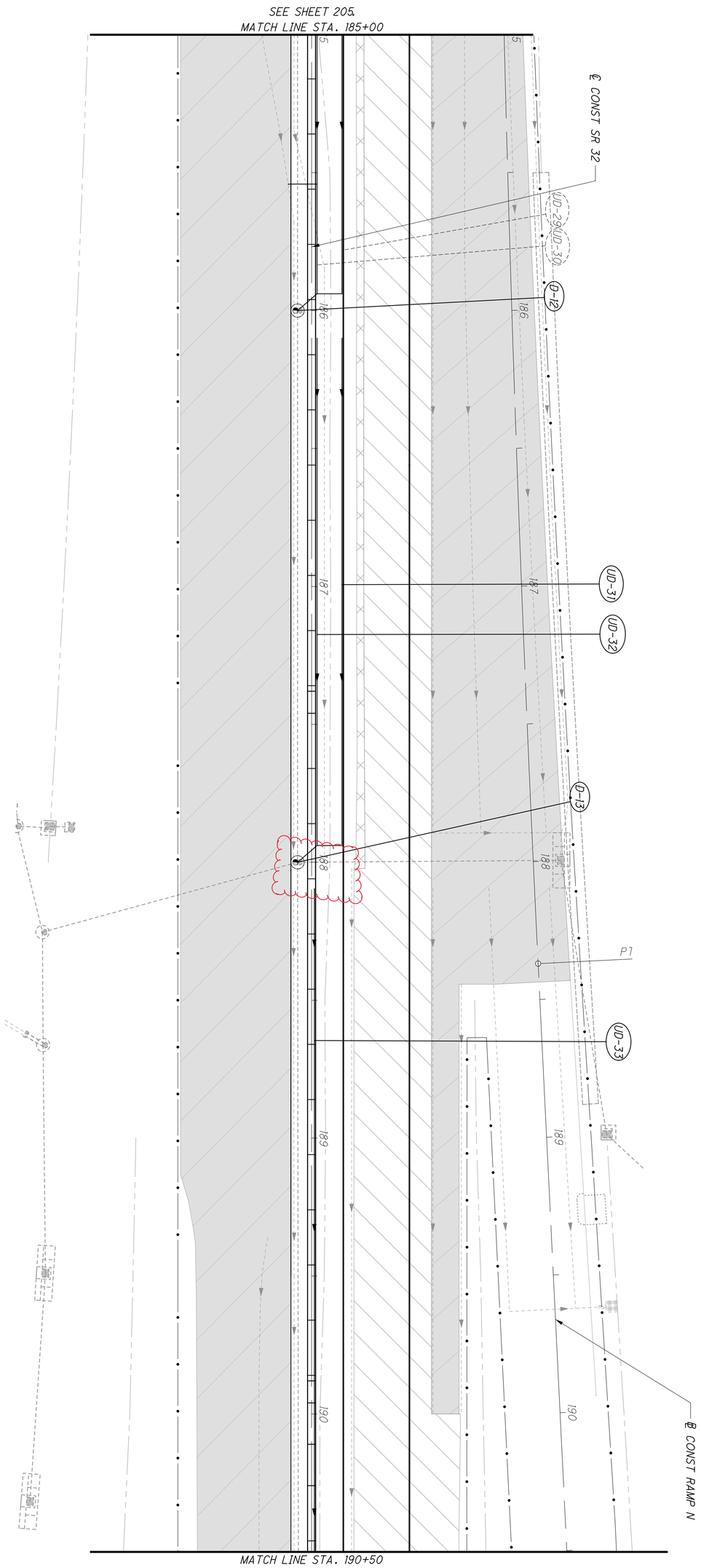
205
316

CLE-32-2.65
(PHASE 7)

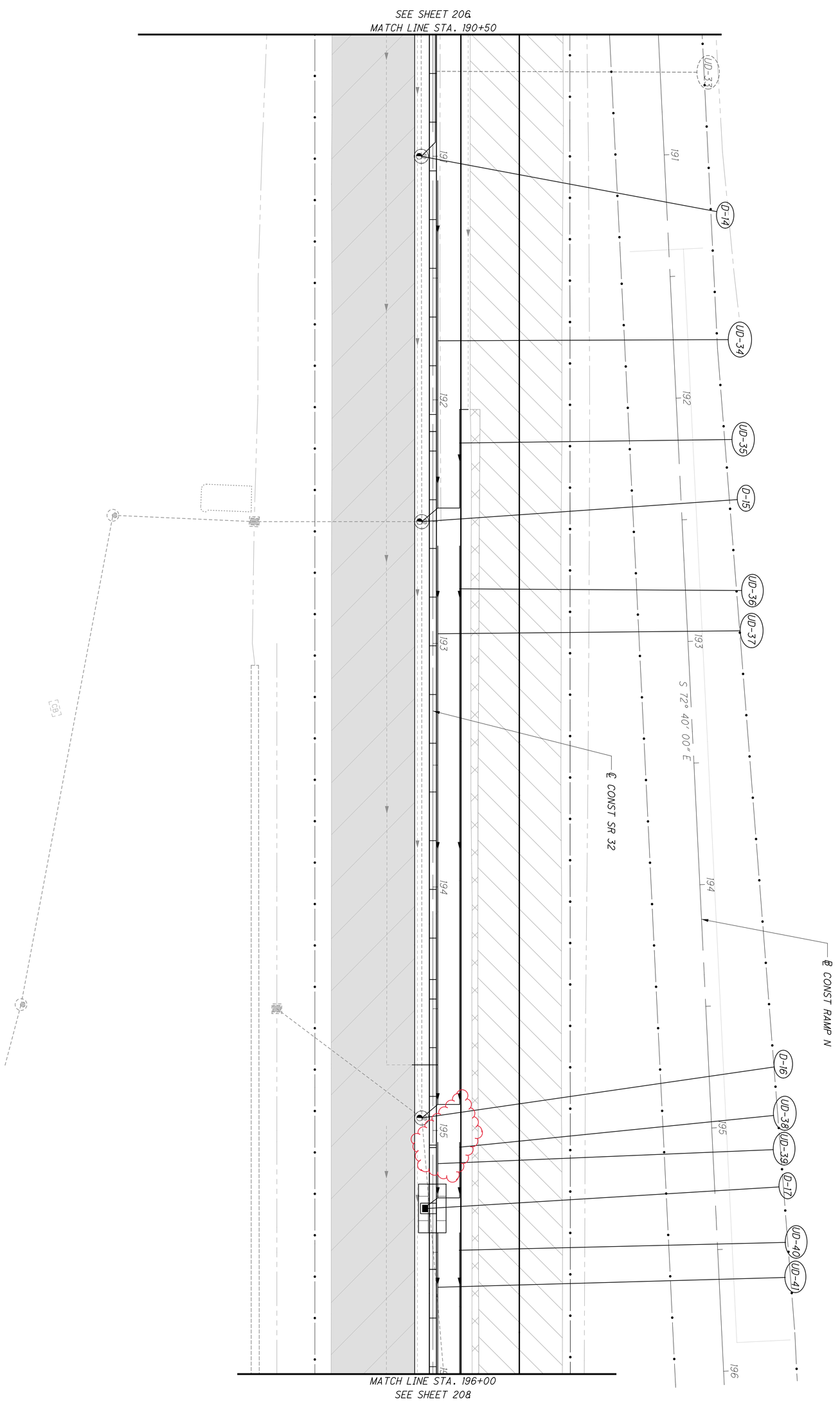
DRAINAGE AND UNDERDRAIN PLAN - SR-32
STA. 179+50 TO STA. 185+00

CALCULATED MHT
CHECKED WAA

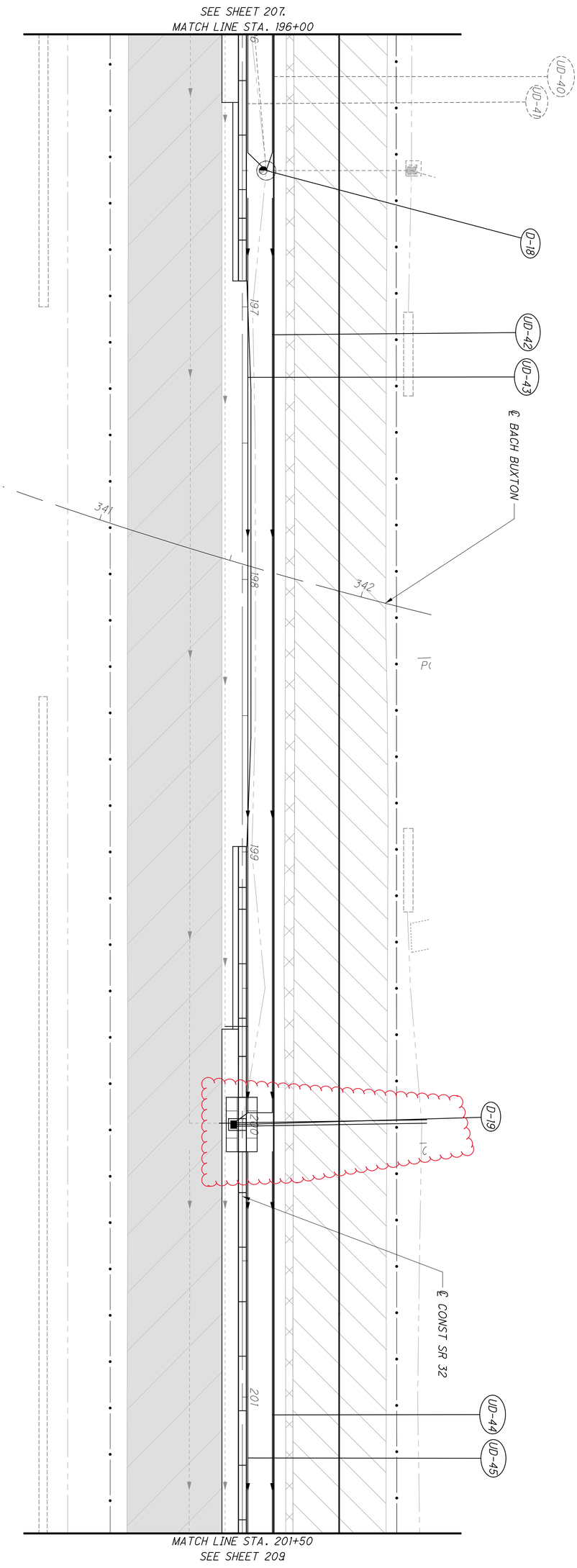
0 10 20 40
HORIZONTAL SCALE IN FEET



206 / 316	CLE-32-2.65 (PHASE 7)	DRAINAGE AND UNDERDRAIN PLAN - SR-32 STA. 185+00 TO STA. 190+50	CALCULATED MHT / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET



207 / 316	CLE-32-2.65 (PHASE 7)	DRAINAGE AND UNDERDRAIN PLAN - SR-32 STA. 190+50 TO STA. 196+00	CALCULATED MHT / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET

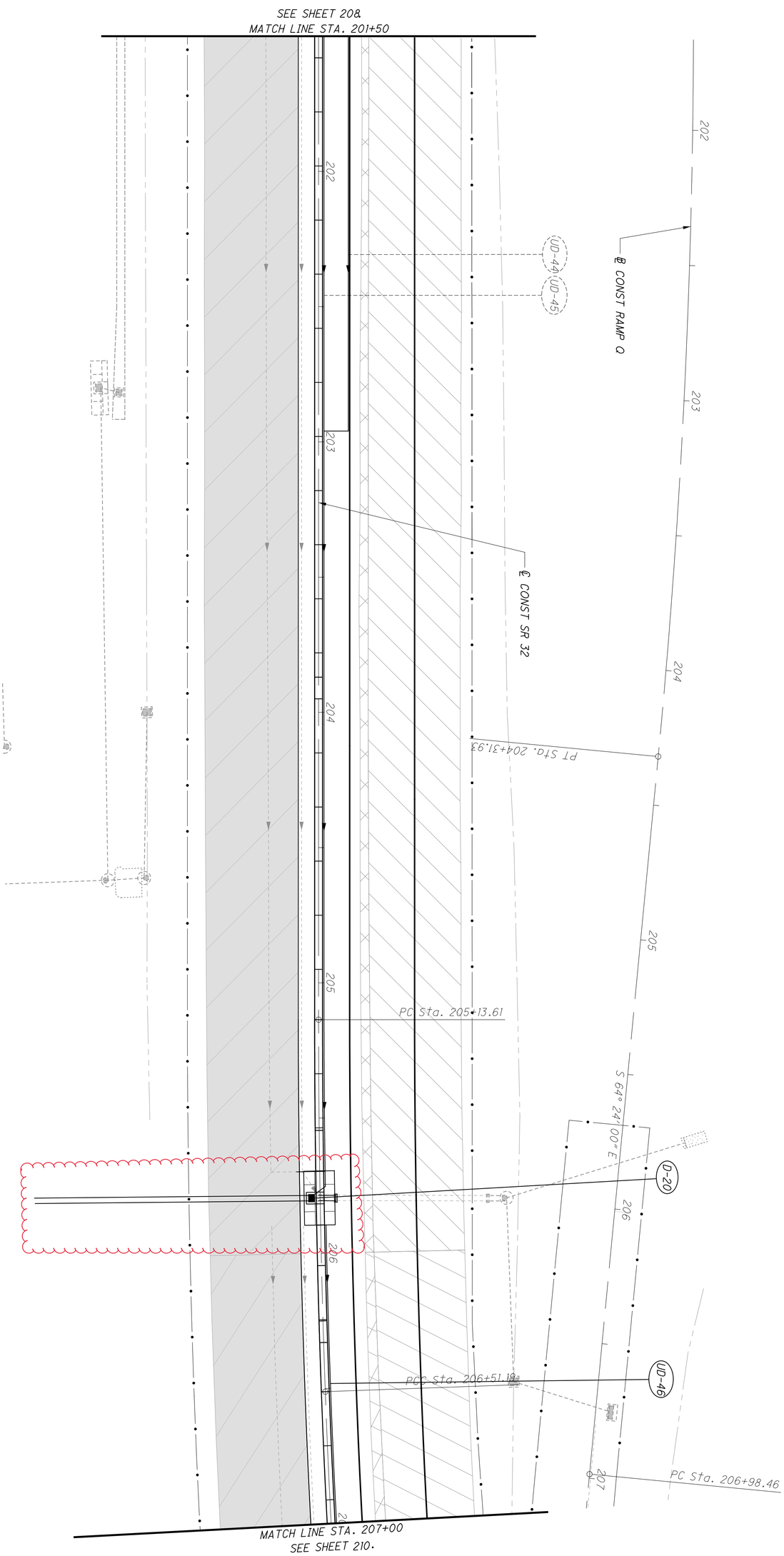


CLE-32-2.65
(PHASE 7)

DRAINAGE AND UNDERDRAIN PLAN - SR-32
STA. 196+00 TO STA. 201+50

CALCULATED MHT
CHECKED WAA

0 10 20 40
HORIZONTAL SCALE IN FEET



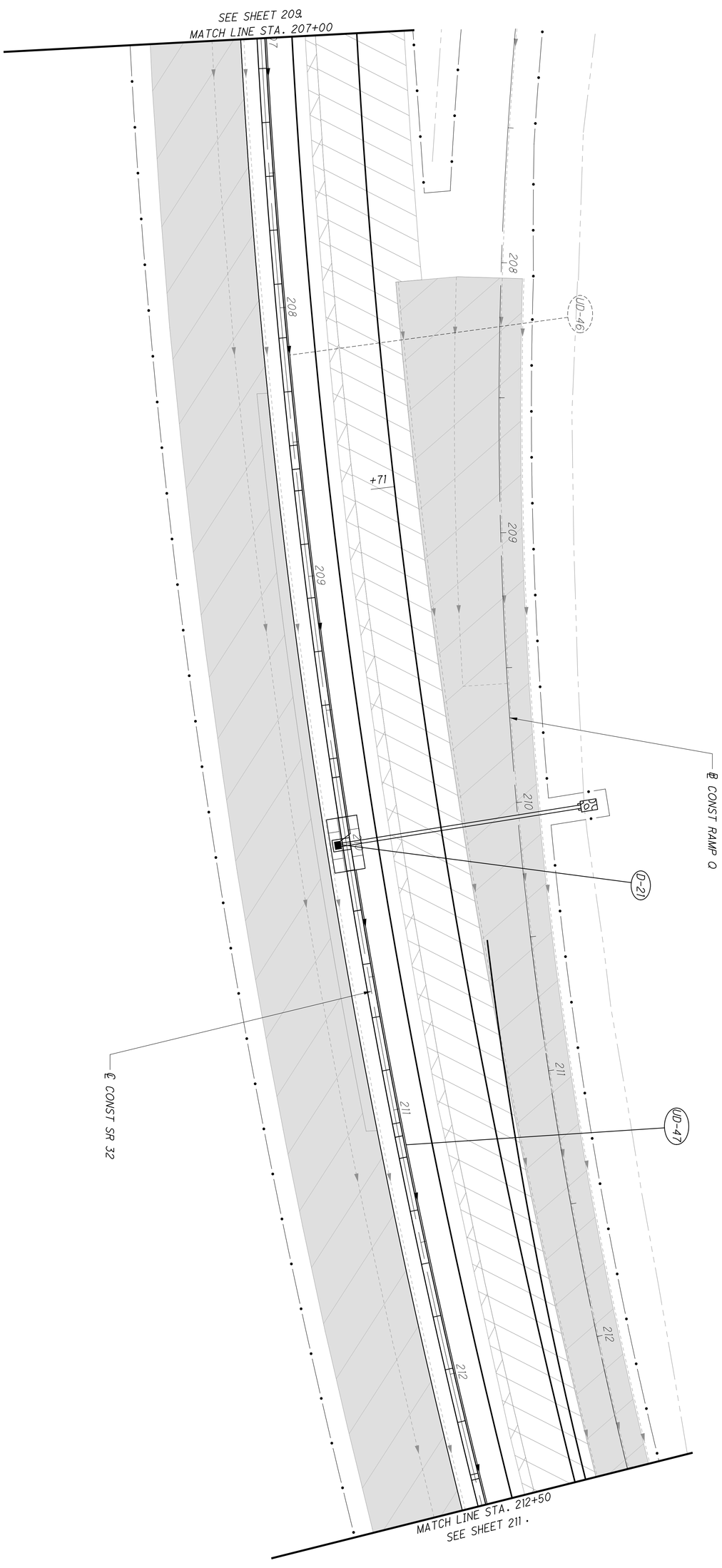
209
316

CLE-32-2.65
(PHASE 7)

DRAINAGE AND UNDERDRAIN PLAN - SR-32
STA. 201+50 TO STA. 207+00

CALCULATED MHT
CHECKED WAA

0 10 20 40
HORIZONTAL SCALE IN FEET

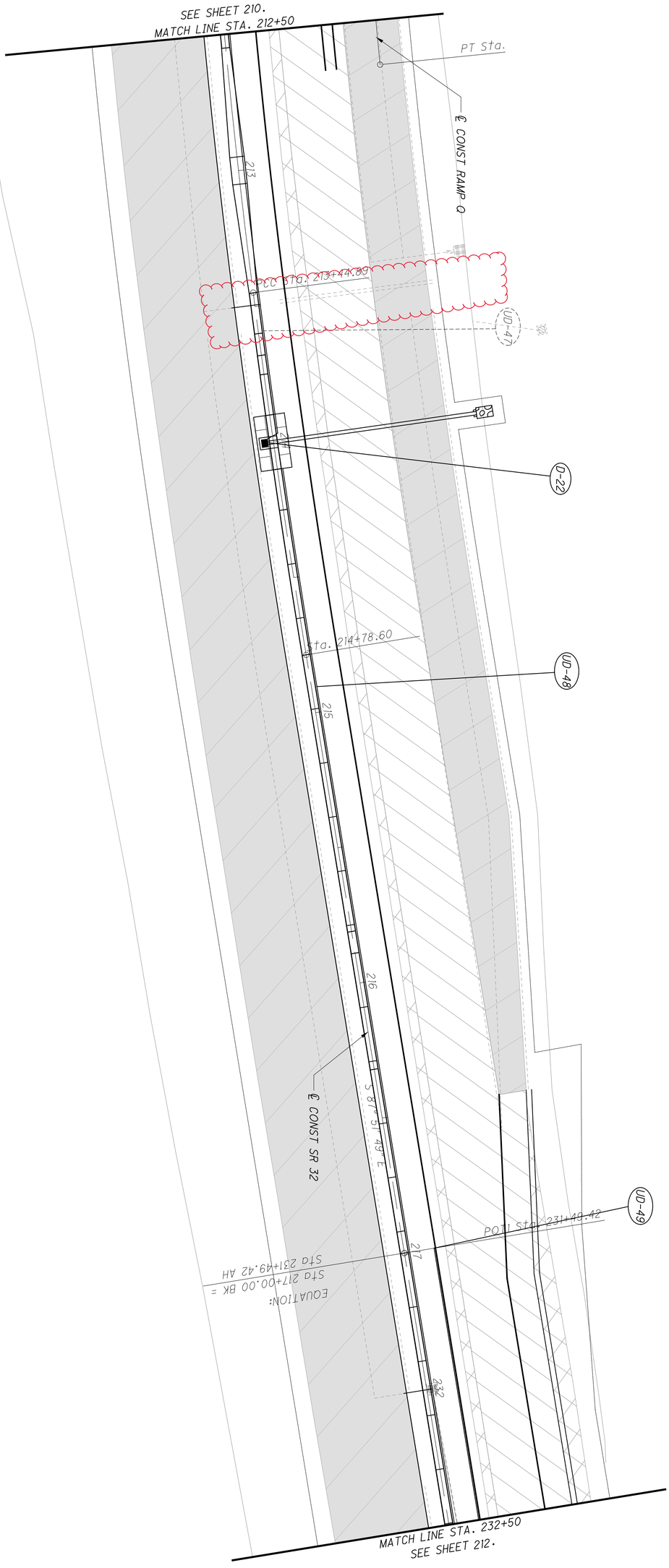


CLE-32-2.65 (PHASE 7)

DRAINAGE AND UNDERDRAIN PLAN - SR-32
STA. 207+00 TO STA. 212+50

CALCULATED MHT
CHECKED WAA

0 10 20 40
HORIZONTAL SCALE IN FEET



211 / 316	CLE-32-2.65 (PHASE 7)	DRAINAGE AND UNDERDRAIN PLAN - SR-32 STA. 212+50 TO STA. 232+50	CALCULATED MHT / CHECKED WAA	0 10 20 40 HORIZONTAL SCALE IN FEET

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
14	15	16	17	18		89	90						03/S>2/ PV						
																		MAINTENANCE OF TRAFFIC	
				1									1	202	20010	1	EACH	HEADWALL REMOVED	
						106							106	202	23000	106	SY	PAVEMENT REMOVED	
				231									231	202	35100	231	FT	PIPE REMOVED, 24" AND UNDER	
				88									88	202	35200	88	FT	PIPE REMOVED, OVER 24"	
				1									1	202	58100	1	EACH	CATCH BASIN REMOVED	
				1,328									1,328	SPECIAL	20302000	1,328	CY	ENGINEERED FILL	64
			60										60	301	46000	60	CY	ASPHALT CONCRETE BASE, PG64-22	
			40			10							50	304	20000	40	CY	AGGREGATE BASE	
			20										20	407	10000	20	GAL	TACK COAT	
86													86	410	12000	86	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
			10										10	441	50000	10	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
				0.2									0.2	602	20000	0.2	CY	CONCRETE MASONRY	
						25							25	609	10000	25	FT	ASPHALT CONCRETE CURB, TYPE 1	
				27									27	611	04600	27	FT	12" CONDUIT, TYPE C	
				204									204	611	10600	204	FT	24" CONDUIT, TYPE C	
				88									88	611	26000	88	FT	72" CONDUIT, TYPE A	
				1									1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
				3									3	611	98631	3	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	18
	48												48	614	11110	48	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
													LUMP	614	18002	LS		MAINTAINING TRAFFIC, MISC.: WORK ZONE TRAFFIC SIGNAL (SPECIAL 61411300)	15
						8							8	614	12384	8	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
													LUMP	614	12420	LS		DETOUR SIGNING (MARIAN DR CLOSED - PHASE 1)	
						425							425	614	12801	425	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	16
18													18	614	13000	18	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
						151							151	614	13310	151	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
						151							151	614	13350	151	EACH	OBJECT MARKER, ONE WAY	
				3,200									3,200	614	18030	3,200	FT	MAINTAINING TRAFFIC, MISC.:PROVIDING POSITIVE DRAINAGE DURING CONSTRUCTION	18
						180							180	614	18030	180	FT	MAINTAINING TRAFFIC, MISC.:TEMPORARY SHEET PILING	64
						0.03							0.03	614	20100	0.03	MILE	WORK ZONE LANE LINE, CLASS I, 4", 642 PAINT	
							0.62						0.62	614	20550	0.62	MILE	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	
						1.97							1.97	614	21100	1.97	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
							0.95						0.95	614	21550	0.95	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
						4.42							4.42	614	22100	4.42	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	
							1.27						1.27	614	22350	1.27	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	
						108							108	614	23200	108	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	
							2,220						2,220	614	23680	2,220	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	
						770							770	614	24200	770	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT	
							771						771	614	24610	771	FT	WORK ZONE DOTTED LINE, CLASS III, 4", 642 PAINT	
						95							95	614	25200	95	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
							301						301	614	25620	301	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS III, 642 PAINT	
						259							259	614	26200	259	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
							216						216	614	26610	216	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
							34						34	614	30650	34	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	
							8						8	614	31620	8	EACH	WORK ZONE WORD ON PAVEMENT, 72", CLASS III, 642 PAINT	
		5											5	614	40051	5	EACH	BUSINESS ENTRANCE SIGN, AS PER PLAN	15
LS													LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
						1,424							1,424	615	25000	1,424	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
						294							294	615	25001	294	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN	64
63													63	616	10000	63	MGAL	WATER	
						7,080							7,080	622	41100	7,080	FT	PORTABLE BARRIER, UNANCHORED	
			0.2										0.2	642	00100	0.2	MILE	EDGE LINE, 4", TYPE 1	
			0.1										0.1	642	00300	0.1	MILE	CENTER LINE, TYPE 1	
																		INCIDENTALS	
													LS	108	10000	LS		CPM PROGRESS SCHEDULE	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

CALCULATED JLG CHECKED SCS

GENERAL SUMMARY

CLE-CR388 (PHASE 4)

88 / 245

72" CMP
EX. 8" WATER
℄ CONST BACH BUXTON RD
CONST LIMITS
CURB TYPE 6
EDGE OF PAVEMENT
12" TYPE B
EX. 16" WATER
CB-3
25:1
2:1
31'L x 18.5'W x 3'D
RCP TYPE A
W/ GEOTEXTILE FABRIC
PCC Sta. 319+41.25
18" TYPE B
CURB TYPE 6
CONST LIMITS
2:1
25:1
72" TYPE A
107°57'00"
STA. 319+30.30
STA. 319+50.06, 57.04' LT.
25:1
2:1
STA. 319+06.51, 68.42' RT.
18" TYPE C
CB-3
319
2:1
25:1
CB-3
12" TYPE B
15" CPP
18" TYPE B
LAKE

HYDRAULIC DESIGN DATA

Q (25) = 142.0 CFS
Q (100) = 184.0 CFS
HW (25) = 843.44
HW (100) = 844.38
V (25) = 15.13 FPS
V (100) = 16.23 FPS
SERVICE LIFE = 75 YEAR
STREAM pH = 7.0
ABRASIVE SITE = NO

132', CONDUIT MISC.: 72" CONDUIT, TYPE A, VARIOUS MATERIALS
℄ CONST. BACH BUXTON RD
60'
72'
HW_{100}= 844.38
HW_{25} = 843.44
OHWM = 841.38
E/P EL. 848.56
PGL EL. 848.04
E/P EL. 847.31
PROPOSED GRADE
EX. GROUND
EX. 8" WATER LINE
18" TYPE B
4.9' COVER (MIN.)
4.25%
℄ EL. 838.61
HW 2.1
EX. 16" WATERLINE
CONDUIT MISC.: 72" CONDUIT, TYPE A, VARIOUS MATERIALS
707.02 (0.28), 707.02 ALUMINIZED, 707.03 (0.28), 707.04
℄ EL. 833.00
HW-2.1, SEE DETAIL ON SHEET 162
850
840
830
10+00
10+50
11+00
11+50

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED MHT
CHECKED WAA

CULVERT DETAILS
BACH BUXTON RD - STA. 319+30.30

CLE-CR388
(PHASE 4)

161
245

..\CULVERT SHEET 11/18/2021 10:30:06 AM mhterrell

SHEET NO.	MOT PHASE	202 PAVEMENT REMOVED SY	304 AGGREGATE BASE CY	609 ASPHALT CONCRETE CURB, TYPE 1 FT	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL) EACH		614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (ONE WAY WHITE) EACH	614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (TWO WAY YELLOW) EACH	614 BARRIER REFLECTOR, TYPE 1 EACH	614 OBJECT MARKER, ONE WAY EACH	614 MAINTAINING TRAFFIC, MISC.: TEMPORARY SHEET PILING FT	614 WORK ZONE LANE LINE, CLASS I, 4", 642 PAINT (WHITE) MILE	614 WORK ZONE CENTER LINE, CLASS I, 642 PAINT (SOLID, DOUBLE) MILE	614 WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE) MILE	614 WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT FT	614 WORK ZONE DOTTED LINE, CLASS I, 642 PAINT FT	614 WORK ZONE TRANSVERSE LINE, CLASS I, 642 PAINT FT	614 WORK ZONE STOP LINE, CLASS I, 642 PAINT FT		615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B SY	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN SY	622 PORTABLE BARRIER, UNANCHORED FT	
31 - 34	PRE-PHASE 1		10		1		26	13	8	8	70		1265	1272			62	37		2952		350	
35 - 38	PHASE 1 STEP 1	58					68	34			110		1875	3870			33	43		9860	2644		
40	PHASE 1 STEP 2			25									703	950				35					
42 - 45	PHASE 2	48			3		54	54	44	44		178	1832	7127		108		39				2110	
47 - 50	PHASE 3 STEP 1				1				13	13			1342	1733		114		51				570	
52 34	PHASE 3 STEP 2												346	320				11					
53 - 56	PHASE 4 STEP 1A				2		41	41	51	51			1333	5007	108	548		21				2490	
58	PHASE 4 STEP 1B								9	9												370	
60 - 61	PHASE 4 STEP 2A						47	47	22	22			1120	1842				22				1050	
63	PHASE 4 STEP 2B								4	4			609	1218								140	
					1																		
SUBTOTALS ALL PHASES		106	10	25	8		236	189	151	151	180	178	10425	23339	108	770	95	259		12812	2644	7080	
TOTALS CARRIED TO GENERAL SUMMARY		106	10	25	8		425		151	151	180	0.03	1.97	4.42	108	770	95	259		1424	294	7080	

NOTES: 1) THE PAVEMENT MARKINGS SHALL MATCH THE FINAL PAVEMENT MARKING LAYOUT. SEE TRAFFIC PLANS FOR DETAILS. SEE GENERAL NOTES - WORK ZONE MARKINGS AND SIGNS.

CALCULATED KSC CHECKED JLG

MAINTENANCE OF TRAFFIC SUBSUMMARY 1/2

CLE-CR388 (PHASE 4)