

c:\pwworking\east01\0574921\105860_CG001.dgn 9/30/2021 2:09:27 PM BAVARELL

SHEET NUM.						PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	REM CHECKED	M/J/L
6	26	27	39	43	44	1/NHS/BR	2/NHS/OT	3/NHS/OT									
LS						LS	LS		201	11000	LS		ROADWAY				
		2,474				2,474			202	23001	2,474	SY	CLEARING AND GRUBBING				
	444					444			202	38000	444	FT	PAVEMENT REMOVED, AS PER PLAN				29
			130			130			203	10000	130	CY	GUARDRAIL REMOVED				
			267			267			203	20000	267	CY	EXCAVATION				
		2,701				2,701			204	10000	2,701	SY	EMBANKMENT				
80						80			204	13000	80	CY	SUBGRADE COMPACTION				
80						80			204	30010	80	CY	EXCAVATION OF SUBGRADE				
2						2			204	45000	2	HOUR	GRANULAR MATERIAL, TYPE B				
239						239			204	50000	239	SY	PROOF ROLLING				
	363					363			606	15050	363	FT	GEOTEXTILE FABRIC				
	3					3			606	26100	3	EACH	GUARDRAIL, TYPE MGS				
	1					1			606	26500	1	EACH	ANCHOR ASSEMBLY, TYPE E				7
	4					4			606	35002	4	EACH	ANCHOR ASSEMBLY, TYPE T				
													MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1				
													EROSION CONTROL				
	4			15		4	15		601	21050	19	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT				
	24					24			601	21060	24	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT				
	4					4			601	32200	4	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER				
2						2			659	00100	2	EACH	SOIL ANALYSIS TEST				
183	74					257			659	00300	257	CY	TOPSOIL				
			1,652			1,652			659	10000	1,652	SY	SEEDING AND MULCHING				
83						83			659	14000	83	SY	REPAIR SEEDING AND MULCHING				
83						83			659	15000	83	SY	INTER-SEEDING				
0.23						0.23			659	20000	0.23	TON	COMMERCIAL FERTILIZER				
0.34						0.34			659	31000	0.34	ACRE	LIME				
9						9			659	35000	9	MGAL	WATER				
	670					670			670	00700	670	SY	DITCH EROSION PROTECTION				
						LS			832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN				
						LS			832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS				
						LS			832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE				
						8,000	8,000		832	30000	16,000	EACH	EROSION CONTROL				
													DRAINAGE				
	0.4					0.4			602	20000	0.4	CY	CONCRETE MASONRY				
	926					926			605	11110	926	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC				
250						250			605	13410	250	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC				
				80			80		611	00200	80	FT	4" CONDUIT, TYPE C				
100						100			611	01500	100	FT	6" CONDUIT, TYPE F				
	53					53			611	04600	53	FT	12" CONDUIT, TYPE C				
	2					2			611	98180	2	EACH	CATCH BASIN, NO. 3A				
4	2			8		6	8		611	99710	14	EACH	PRECAST REINFORCED CONCRETE OUTLET				
													PAVEMENT				
		2,232				2,232			254	01000	2,232	SY	PAVEMENT PLANING, ASPHALT CONCRETE - 3"				
		662				662			301	46000	662	CY	ASPHALT CONCRETE BASE, PG64-22				
		449				449			304	20000	449	CY	AGGREGATE BASE				
		890				890			407	20000	890	GAL	NON-TRACKING TACK COAT				
100						100			408	10001	100	GAL	PRIME COAT, AS PER PLAN				7
		202				202			441	50000	202	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 AS PER PLAN				6
		202				202			441	50200	202	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)				
		7				7			441	50300	7	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) VARIABLE DEPTH				
	102					102			609	24000	102	FT	CURB, TYPE 4-A				
	88					88			609	26000	88	FT	CURB, TYPE 6				
15						15			617	10101	15	CY	COMPACTED AGGREGATE, AS PER PLAN				7
													LIGHTING				
					24		24		625	00480	24	EACH	CONNECTION, UNFUSED PERMANENT				
					4		4		625	13400	4	EACH	LIGHT TOWER, BBBB100				
					3		3		625	15100	3	EACH	LIGHT TOWER FOUNDATION, 36" X 20' DEEP				
					1		1		625	15200	1	EACH	LIGHT TOWER FOUNDATION, 36" X 25' DEEP				
					573		573		625	23200	573	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE				

GENERAL SUMMARY

POR-14-12.96

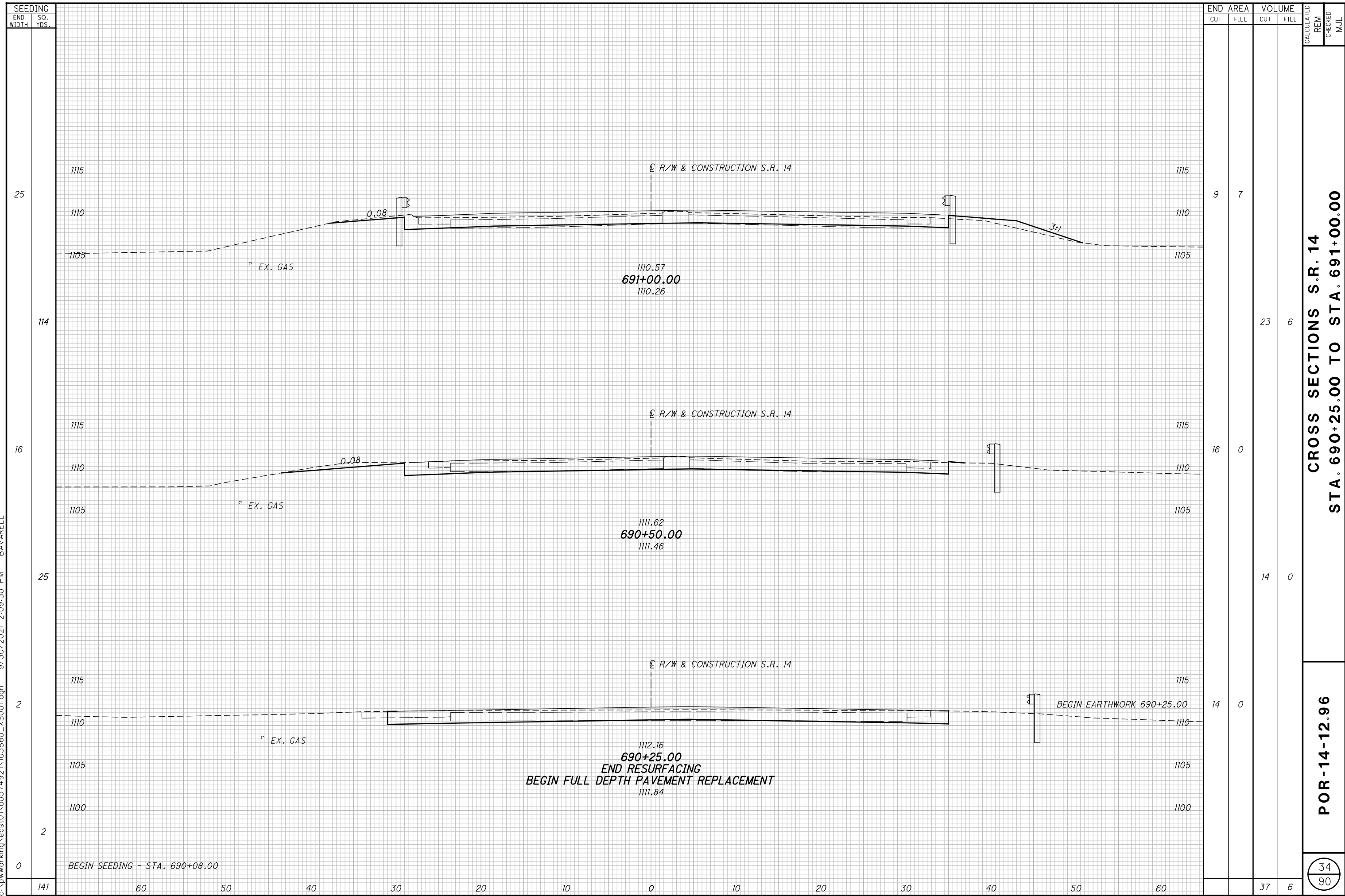
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SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
7	8	9	10	11	12	26	44			1/NHS/BR	2/NHS/OT	3/NHS/OT							
							2,364				2,364			625	24320	2,364	FT	LIGHTING (CONT.)	
							161				161			625	25902	161	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
							24				24			625	26263	24	EACH	CONDUIT, JACKED OR DRILLED, 725.04 4"	43
							2,274				2,274			625	29000	2,274	FT	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN SYMMETRIC, 475W, 480V, TYPE V	
							8				8			625	30706	8	EACH	TRENCH	
							8				8			625	32000	8	EACH	PULL BOX, 725.08, 24"	
							1				1			625	34001	1	EACH	GROUND ROD	43
							2,274				2,274			625	36011	2,274	FT	POWER SERVICE, AS PER PLAN	43
							1				1			625	76000	1	EACH	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	43
							1				1			633	67200	1	EACH	ARC FLASH CALCULATIONS AND LABEL SR 5/14	
																		CONTROLLER WORK PAD	
																		TRAFFIC CONTROL	
30										30				630	02100	30	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
										32				630	03100	32	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
4										4				630	80100	4	SF	SIGN, FLAT SHEET, 730.20	
4										4				630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
										1				630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
4							2			6				630	86002	6	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							0.39			0.39				642	00100	0.39	MILE	EDGE LINE, 4", TYPE 1	
							0.36			0.36				642	00200	0.36	MILE	LANE LINE, 4", TYPE 1	
							0.25			0.25				642	00300	0.25	MILE	CENTER LINE, TYPE 1	
							28			28				642	00500	28	FT	STOP LINE, TYPE 1	
																		STRUCTURE OVER 20 FOOT SPAN (POR-14-1296)	51
																		MAINTENANCE OF TRAFFIC	
	150									50	100			614	11110	150	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
				4	4					8				614	12384	8	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
	LS									LS				614	12420	LS		DETOUR SIGNING	
	5									5				614	13000	5	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
				18	44					62				614	13310	62	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
										12				614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	8
										0.35				614	20550	0.35	MILE	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	
										0.79				614	21000	0.79	MILE	WORK ZONE CENTER LINE, CLASS I	
										0.24				614	21550	0.24	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
										2.16				614	22000	2.16	MILE	WORK ZONE EDGE LINE, CLASS I, 4"	
										0.38				614	22350	0.38	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	
							155			155				614	23000	155	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
							1,311	175		1,486				614	24000	1,486	FT	WORK ZONE DOTTED LINE, CLASS I	
								31		31				614	26000	31	FT	WORK ZONE STOP LINE, CLASS I	
							4	2		6				614	30000	6	EACH	WORK ZONE ARROW, CLASS I	
										8				616	10000	8	MGAL	WATER	
							606	1,876		2,482				622	41100	2,482	FT	PORTABLE BARRIER, UNANCHORED	9
							284	254		538				622	41110	538	FT	PORTABLE BARRIER, ANCHORED	9
																		INCIDENTALS	
	LS									LS				614	11000	LS		MAINTAINING TRAFFIC	
										12				619	16010	12	MNTH	FIELD OFFICE, TYPE B	
										LS				623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										LS				624	10000	LS		MOBILIZATION	
										LS				SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION	6

GENERAL SUMMARY

POR-14-12.96

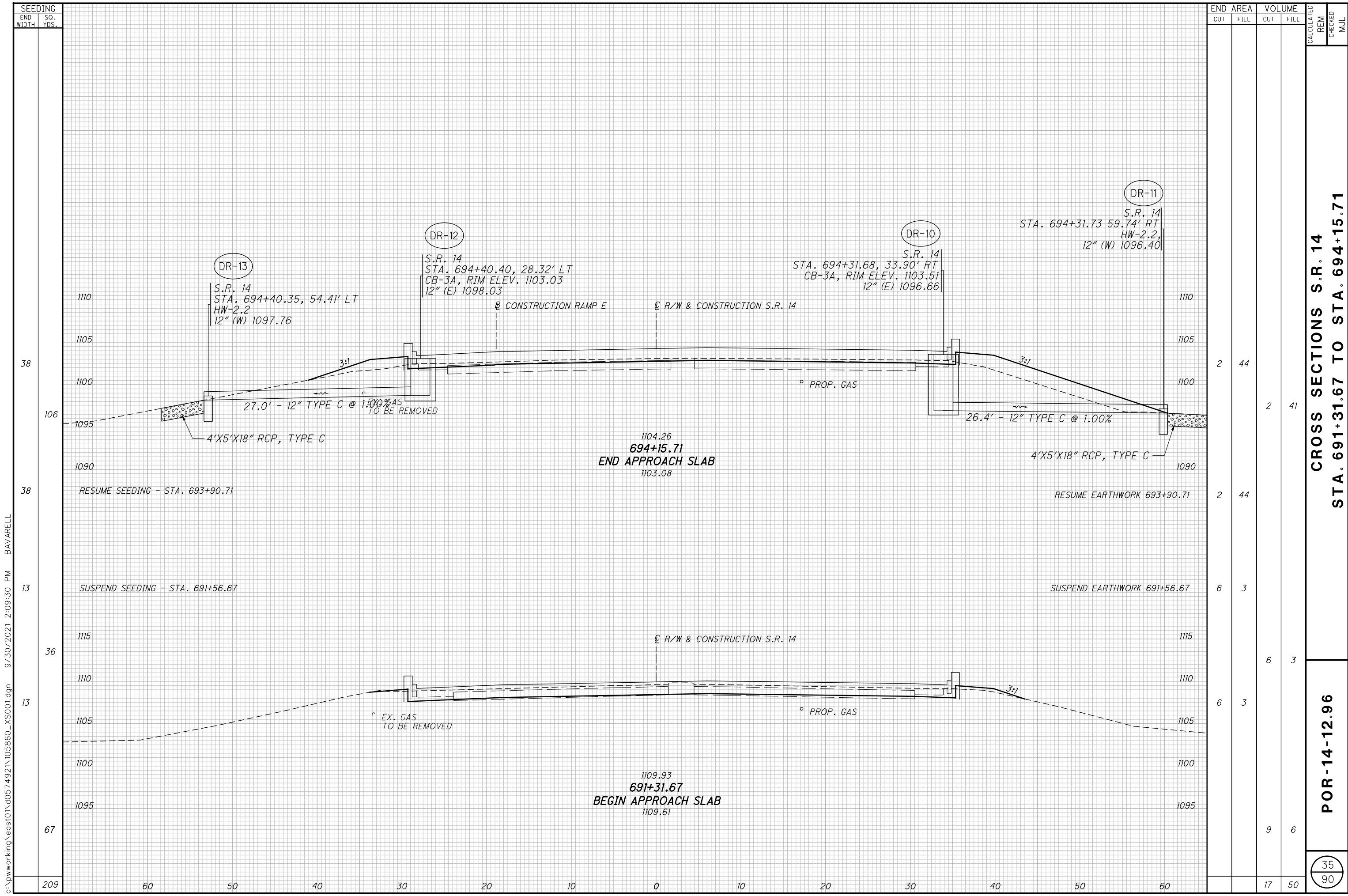
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**CROSS SECTIONS S.R. 14
STA. 690+25.00 TO STA. 691+00.00**

POR-14-12.96

34
90



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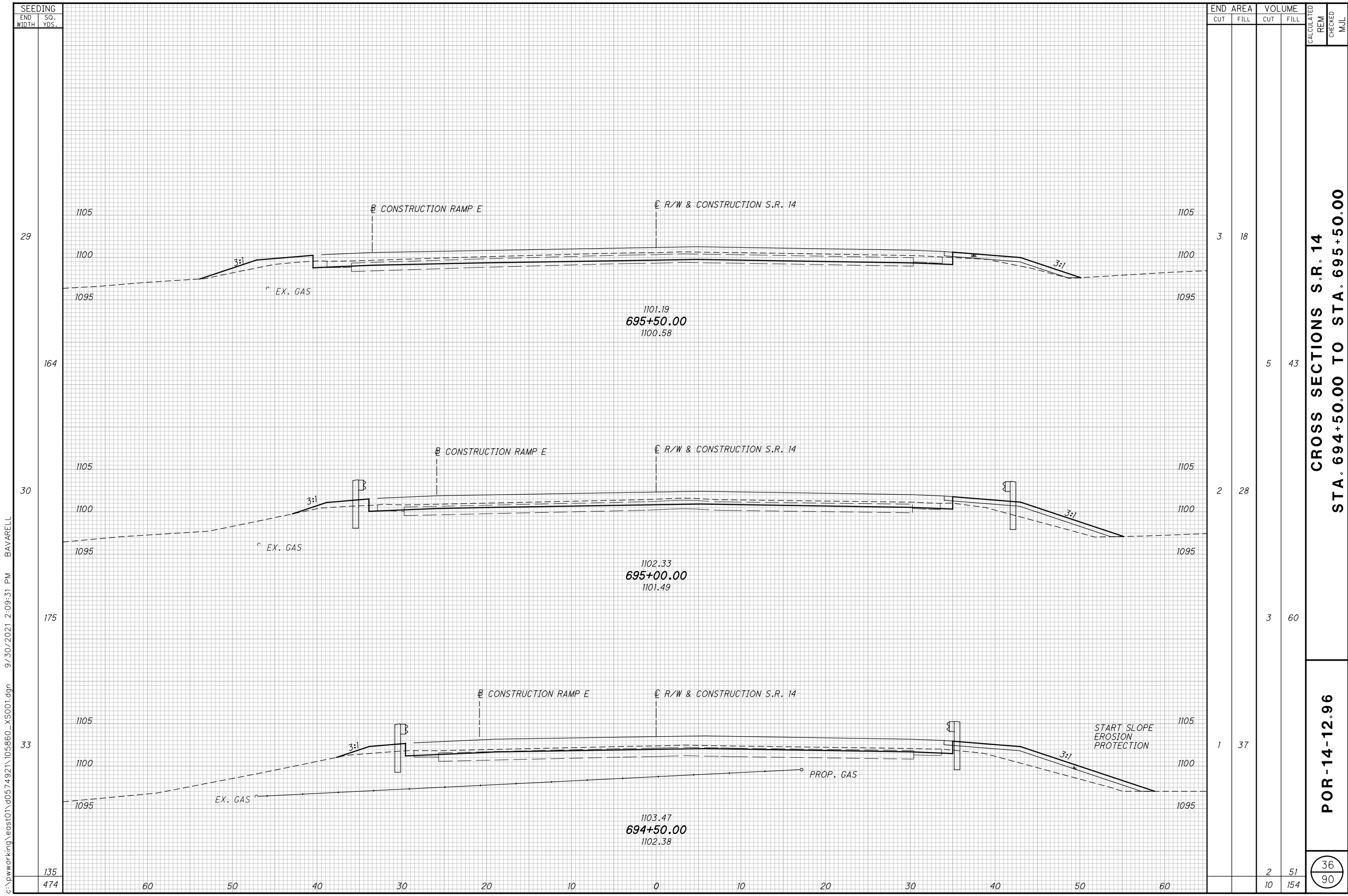
SEEDING	
END WIDTH	SO. YDS.
38	
106	
38	
13	
36	
13	
67	
209	

END AREA		VOLUME		CALCULATED REM	CHECKED MJL
CUT	FILL	CUT	FILL		
2	44	2	41		
2	44				
6	3	6	3		
6	3				
9	6				
		17	50		

**CROSS SECTIONS S.R. 14
STA. 691+31.67 TO STA. 694+15.71**

POR-14-12.96

35
90



SEEDING	
END WIDTH	SO. YDS.
29	135
164	474
30	175
33	135
135	474

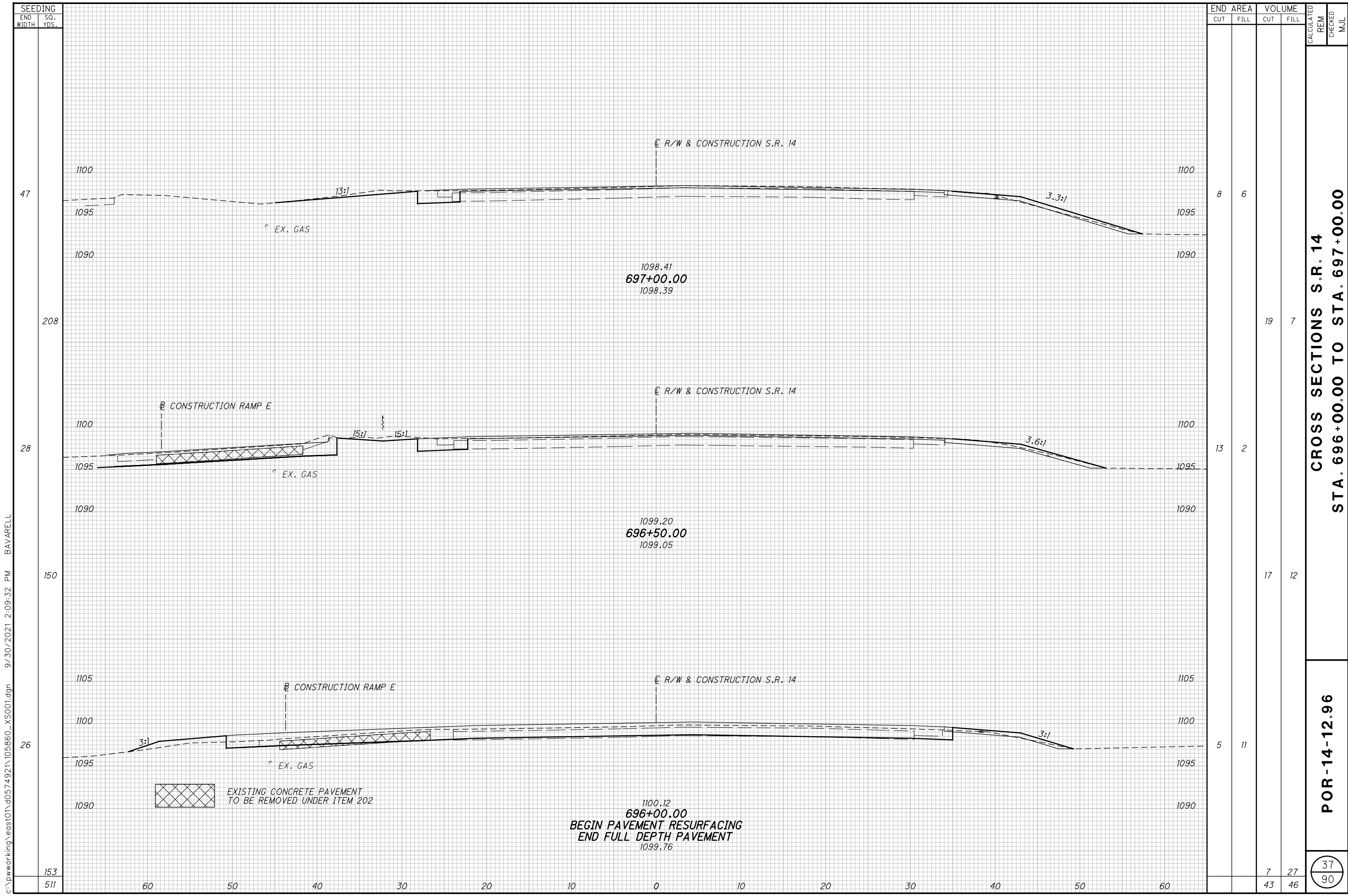
END AREA		VOLUME		CALCULATED REM	CHECKED MJL
CUT	FILL	CUT	FILL		
3	18	5	43		
2	28	3	60		
1	37	2	51		
		10	154		

CROSS SECTIONS S.R. 14
STA. 694+50.00 TO STA. 695+50.00

POR-14-12.96

36
90

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SEEDING	
END WIDTH	SO. YDS.
47	
28	
26	
153	
511	

END AREA		VOLUME		CALCULATED REM	CHECKED MJL
CUT	FILL	CUT	FILL		
8	6	19	7		
13	2	17	12		
5	11	7	27		
		43	46		

CROSS SECTIONS S.R. 14
STA. 696+00.00 TO STA. 697+00.00

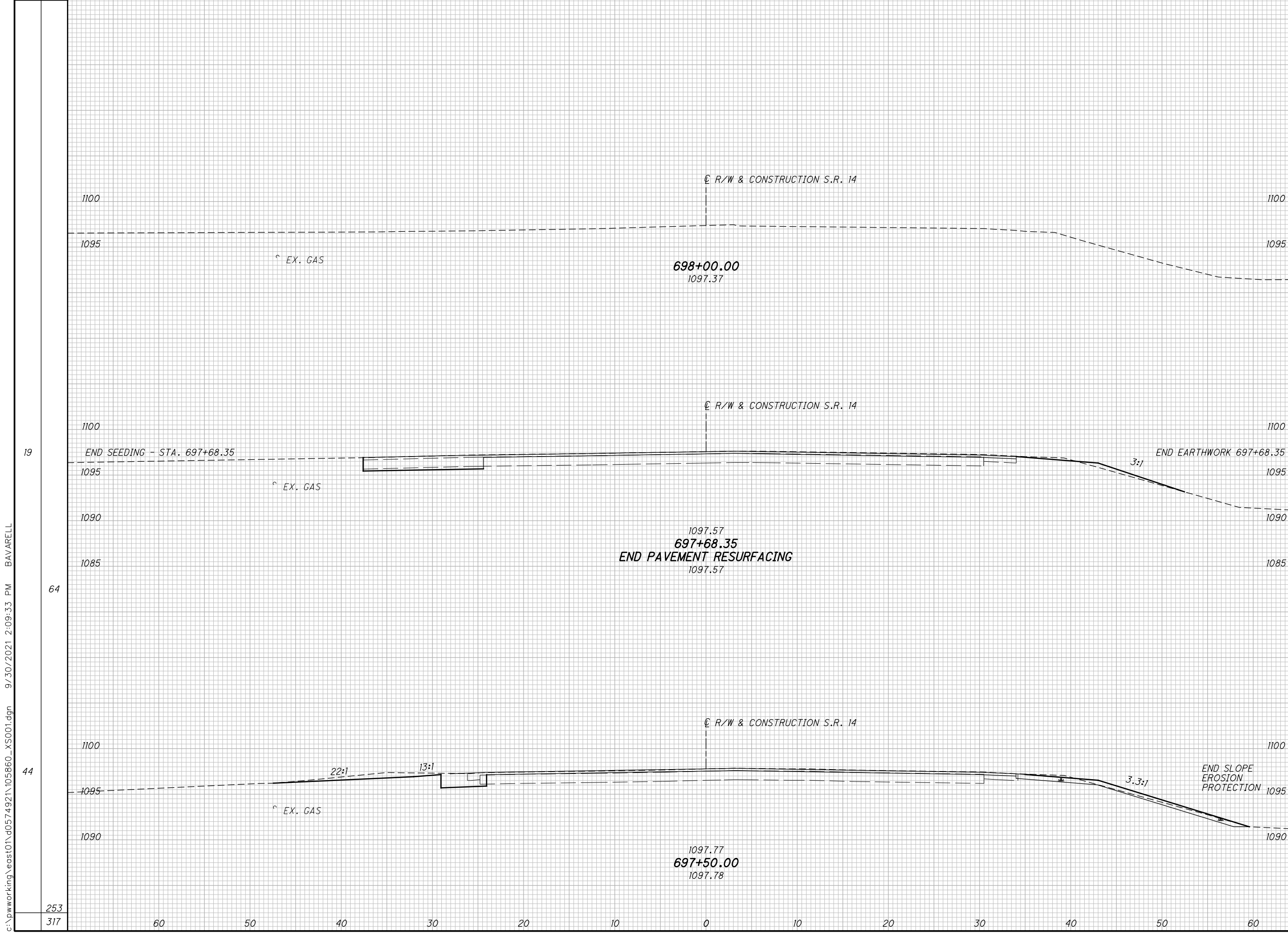
POR-14-12.96

37
 90

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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED REM CHECKED MJL



END AREA	VOLUME	CALCULATED	REM	CHECKED	MJL
CUT	FILL	CUT	FILL		
3	3				
		5	2		
11	4				
		18	9		
		23	11		

CROSS SECTIONS S.R. 14
STA. 697+50.00 TO STA. 698+00.00

POR-14-12.96

38
90

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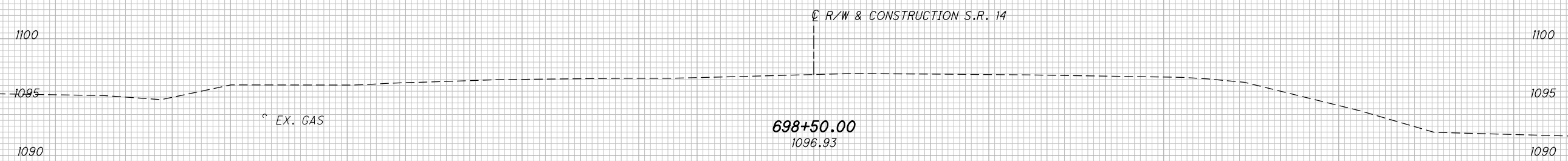
253
317

60 50 40 30 20 10 0 10 20 30 40 50 60

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED REM	CHECKED MJL
CUT	FILL	CUT	FILL		



CROSS SECTIONS S.R. 14
STA. 698+50.00

POR - 14 - 12.96

39
90

1652 PROJECT TOTAL - CARRIED TO GENERAL SUMMARY

PROJECT TOTAL - CARRIED TO GENERAL SUMMARY

130 267

ITEM 513 - STRUCTURAL STEEL, MISC.: BEAM RETROFIT PLATES:
 THE EXISTING BEAMS SHALL HAVE RETROFIT PLATES INSTALLED AS INDICATED IN THE PLANS. STEEL SHALL BE ASTM A709, GRADE 50 (MINIMUM YIELD 50,000 PSI) AND BOLTS SHALL BE ASTM F3125, GRADE A325, TYPE 1 BOLT HOLES IN THE RETROFIT PLATES SHALL BE DRILLED IN THE SHOP AND RETROFIT PLATES SHALL BE USED AS TEMPLATES FOR THE DRILLING OF THE HOLES IN THE EXISTING BEAMS. THE WELDS IN THE EXISTING BEAM OR PROTRUSIONS IN THE FLANGE AREA SHALL BE GROUND FLUSH WHERE NECESSARY TO ENSURE PROPER CONTACT FIT. THE GRINDING SHALL BE IN THE DIRECTION OF THE LONGITUDINAL AXIS OF THE BEAM. RETROFIT PLATES SHALL FIT FLAT AGAINST THE EXISTING BEAM AND FILL PLATES SHALL BE USED TO COMPENSATE FOR ANY MISALIGNMENT OF MORE THAN 1/16". AFTER HOLES ARE DRILLED IN THE BEAM BUT BEFORE FINAL ASSEMBLY, THE CONTACT SURFACES OF THE EXISTING BEAM AND THE ENTIRE SURFACE OF THE RETROFIT PLATES AND FILLER PLATES SHALL HAVE SURFACES PREPARED AND GIVEN A PRIME COAT AS PER 514. ALL BURS AND FINIS PRODUCED BY DRILLING OF HOLES SHALL BE REMOVED. BOLTS SHALL BE INSTALLED WITH HEADS DOWN. BASIS FOR PAYMENT: THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL THE RETROFIT PLATES.

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

DECK PLACEMENT DESIGN ASSUMPTIONS:

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

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS.

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

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48".

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

PLANS OF EXISTING BRIDGE

CONSTRUCTION PLANS FOR THE EXISTING BRIDGE ARE ON FILE AT THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 4 OFFICE, 2088 SOUTH ARLINGTON ROAD, AKRON, OHIO 44306 AND ARE AVAILABLE FOR REFERENCE.

ITEM 514 - FIELD PAINTING EXISTING STRUCTURAL STEEL.

PRIME COAT:

ITEM 514 - FIELD PAINTING STRUCTURAL STEEL.

INTERMEDIATE COAT:

ITEM 514 - FIELD PAINTING STRUCTURAL STEEL.

FINISH COAT:

PAINTED AREAS THAT ARE DAMAGED BY WELDING, DRILLING, CUTTING OR OTHER MEANS TO REHABILITATE THIS BRIDGE ARE DESIGNATED IN THE PROJECT PLANS.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL NECESSARY EQUIPMENT TO INSPECT THIS WORK. THE MAJORITY OF THE AREAS TO BE REPAIR PAINTED ARE:

1. NEW CROSSFRAME CONNECTIONS BETWEEN BEAMS D AND E
2. EXISTING BEAM RETROFIT PLATE LOCATIONS
3. BEAM END AT EACH ABUTMENT

EXISTING STEEL AREAS SHALL RECEIVE A PRIME, INTERMEDIATE, AND FINISH COAT. PROPOSED STEEL SHALL BE SHOP PRIMED AND RECEIVE AN INTERMEDIATE AND FINISH COAT.

TINT THE FINISH COAT TO APPROXIMATELY THE SAME COLOR AS THE EXISTING FINISH COLOR, FEDERAL COLOR #15526. MATCH THE COLOR TO THE ENGINEERS SATISFACTION.

ITEM 518 - 6" PERFORATED CORRUGATED PLASTIC PIPE, AS PER PLAN:

CORRUGATED PIPE USED IN ABUTMENT DRAINAGE SHALL BE 6" DIAMETER PERFORATED CORRUGATED PLASTIC AS PER 707.33 TYPE SP. ALSO INCIDENTAL TO THIS ITEM SHALL BE THE PLUGGING OF THE EXISTING WEEPHOLES. THE EXISTING WEEPHOLES SHALL BE FLUSHED OUT TO REMOVE ANY LOOSE DEBRIS AND FILLED ENTIRELY WITH CLASS QC1 CONCRETE AS PER ITEM 499.

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN:

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN

WITH PRIOR APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY REDRESS THE SLOPES WITH THE EXISTING CRUSHED AGGREGATE. WHERE ADDITIONAL MATERIAL IS REQUIRED, FURNISH AND PLACED CRUSHED AGGREGATE IN ACCORDANCE WITH CMS SECTION 601. AN ESTIMATED QUANTITY OF 100 SQUARE YARDS HAS BEEN PROVIDED FOR BID PURPOSES. ACTUAL QUANTITIES OF SLOPE TO BE REDRESSED SHALL BE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL ALSO INCLUDE THE INSTALLATION OF THE ABUTMENT DRAINAGE PIPE OUTLETS. ALL COSTS OF LABOR, MATERIALS AND INCIDENTALS NECESSARY TO REDRESS THE SLOPES AND INSTALL THE DRAINAGE PIPE OUTLETS SHALL BE INCLUDED IN ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ASBESTOS NOTIFICATION:

A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST INSPECTED THE BRIDGE STRUCTURE SCHEDULED FOR DEMOLITION AND/OR REHABILITATION;

THE INSPECTION DETERMINED THAT 1540 LINEAR FEET (2420 SQUARE FEET) OF TRANSITE PIPE THAT CONTAINS ASBESTOS. THE ASBESTOS CONTAINING MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL ENSURE THAT THE ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIAL IS CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT ALL DOCUMENTATION RELATED TO THE ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS IS SUBMITTED TO THE PROJECT ENGINEER FOR RECORD KEEPING WITHIN 2 WEEKS OF COMPLETION.

THE DEPARTMENT HAS PROVIDED A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM (PARTIALLY COMPLETED) AND THE ASBESTOS INSPECTION REPORT IN THE REFERENCE FILES FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO THE OEPA AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION. ONLINE SUBMISSION IS AVAILABLE AT <http://www.epa.ohio.gov/asbestos> AND IS ENCOURAGED OR, THE CONTRACTOR SHALL SUBMIT IT TO ONE OF THE ADDRESSES BELOW.

ASBESTOS PROGRAM
 OHIO EPA, DAPC
 P.O. BOX 1049
 COLUMBUS, OH 43216-1049

OR

ASBESTOS PROGRAM
 OHIO EPA, DAPC
 50 W. TOWN ST., SUITE 700
 COLUMBUS, OH 43215

THE FORM SHALL INCLUDE:

1. THE CONTRACTORS NAME AND ADDRESS
2. THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE STRUCTURE DEMOLITION AND/OR RENOVATION
3. DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHODS BE USED
4. ALL NECESSARY FEES

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED NOTIFICATION OF DEMOLITION AND RENOVATION FORM TO THE PROJECT ENGINEER AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION.

THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIALS NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

THE CONTRACTOR SHALL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY ABATE, TRANSPORT, AND DISPOSE OF ASBESTOS CONTAINING MATERIALS IN A LANDFILL LICENSED BY THE LOCAL HEALTH DEPARTMENT AND PERMITTED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY - DIVISION OF AIR POLLUTION CONTROL TO ACCEPT ASBESTOS CONTAINING MATERIAL. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM SPECIAL - STRUCTURES, REMOVAL OF ASBESTOS CONTAINING MATERIAL

VANDAL PROTECTION FENCING

INSTALL FENCING FOR EACH CONSTRUCTION PHASE PRIOR TO OPENING THAT PHASE TO VEHICULAR TRAFFIC.

ITEM 690 - SPECIAL - DOMINION ENERGY OHIO STABILIZER AND SUPPORTS:

UNDER THIS ITEM THE ODOT CONTRACTOR WILL INSTALL THE SPECIAL PIPE STABILIZERS (SUPPLIED BY DEO) AND ANGLE SUPPORT FRAMES AT ALL CROSSFRAME LOCATIONS BETWEEN BEAMS F AND G TO SUPPORT THE GAS LINE. INSTALLATION OF THE SUPPORTS AND PIPE SHALL OCCUR PRIOR TO THE COMPLETION OF THE DECK POUR. THE ODOT CONTRACTOR IS TO FIELD VERIFY ALL PIPE SUPPORT LOCATIONS AND ALL OTHER DIMENSIONS BEFORE PERFORMING ANY WORK.

SPECIAL STABILIZER ROLLER SUPPORTS AND ALL ASSOCIATED HARDWARE NEEDED TO INSTALL THE SUPPORT WILL BE PURCHASED FROM LB&A BY DOMINION ENERGY AND SUPPLIED TO THE ODOT CONTRACTOR. SUPPORTS WILL BE MANUFACTURED BY THE FOLLOWING OR AN APPROVED EQUAL:

LB&A, INC.
 P.O. BOX 540
 WESTTOWN, PA, 19395

THESE ITEMS WILL BE FULLY FIELD-ADJUSTABLE AND BE PROVIDED WITH ALL REQUIRED HARDWARE AND FASTENERS FOR A COMPLETE OPERABLE SYSTEM. DOMINION ENERGY OHIO GAS COMPANY (DEO) SHALL BE CONTACTED TO COORDINATE INSTALLATION OF THE GAS LINES, SUPPLIED AND INSTALLED BY DEO. ADVANCE NOTICE (3 WEEKS) SHOULD BE GIVEN TO DEO AND IT IS THE ODOT CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WORK SUCH THAT IT WILL NOT CAUSE ANY DELAY. ALL MATERIALS AND FABRICATION WHICH IS ASSOCIATED WITH THE INSTALLATION OF THE GAS LINE ANGLE SUPPORT FRAMES ATTACHED TO THE EXISTING CROSSFRAMES SHALL BE IN ACCORDANCE WITH C&MS 513. ANY FIELD CUTS, WELDS OR DAMAGE TO THE HOT DIPPED GALVANIZED COATING OF THE ANGLE SUPPORT FRAMES DURING THE INSTALLATION SHALL BE REPAIRED PER C&MS 711.02.

DOMINION ENERGY OHIO
 320 SPRINGSIDE DRIVE, SUITE 320
 AKRON, OH 44333
 CONTACT: GENE ONABIYI
 PHONE: (330) 664-2625

REQUIREMENTS FOR GAS LINE INSTALLATION SHALL BE THE RESPONSIBILITY OF DEO. THE DEO CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE SUPPORTS AND STABILIZERS PER THE MANUFACTURER'S SPECIFICATIONS ONCE THE GAS LINE IS INSTALLED.

ALSO INCLUDED UNDER THIS ITEM, THE ODOT CONTRACTOR WILL SUPPLY AND INSTALL THE 8" DIAMETER SCHEDULE 40 PVC CASING PIPE AND FITTINGS WITH 18" OF PIPE EXTENDING OUT FROM THE EXPOSED FACE OF THE CONCRETE END DIAPHRAGM IN ORDER TO ACCOMMODATE LINK-SEAL AND BOOT SEAL. DEO TO PROVIDE AND INSTALL LINK SEAL AND BOOT SEAL. THE PVC CASING PIPE SHALL EXTEND OUT FROM THE BACK OF THE END DIAPHRAGM, THROUGH THE GEOTEXTILE FABRIC WALL AND 18" BEYOND THE LIMITS OF THE APPROACH SLAB SLEEPER SLAB. THE TOP OF THE PVC CASING PIPE SHALL BE SET BELOW THE AGGREGATE BASE FOR THE SLEEPER SLAB. PVC PIPE CAN BE CUT TO LENGTH IF EXCESS REMAINS AFTER SEALS ARE INSTALLED.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED FOR PAYMENT PER BID FOR EACH COMPLETED AND INSTALLED, ITEM 690, SPECIAL - DOMINION ENERGY OHIO STABILIZERS AND SUPPORTS.

ESTIMATED QUANTITIES

CALCULATED BY: CMR DATE: 01/21/2021
 CHECKED BY: JTW DATE: 01/22/2021

ITEM	EXTENSION	TOTAL 01/NHS/BR	TOTAL 03/NHS/OT	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPERSTR.	GENERAL	SHEET REF.
202	11203	LS			PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	3 , 4 & 24 / 44
202	22900	306		SY	APPROACH SLAB REMOVED				306	
202	23500	1862		SY	WEARING COURSE REMOVED				1862	
503	11100	LS			COFFERDAMS AND EXCAVATION BRACING				LS	3 / 44
503	21101	130		CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	130				3 / 44
509	10000	176929		LB	EPOXY COATED REINFORCING STEEL	9565	6631	160733		
509	20001	100		LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN				100	3 / 44
509	30020	8092		FT	NO. 4 GFRP DEFORMED BARS			8092		
510	10001	822		EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	450	372			3 / 44
511	33500	2		EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	2				
511	34412	69		CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE			69		
511	34447	446		CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN			446		23 / 44
511	34450	80		CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			80		31 / 44
511	43212	33		CY	CLASS QC1 CONCRETE WITH QC/QA, PIER		33			
511	43512	58		CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	58				
512	10101	1272		SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	77	570	625		3 & 22 / 44
512	10600	100		FT	CONCRETE REPAIR BY EPOXY INJECTION	50	50			
512	33000	57		SY	TYPE 2 WATERPROOFING	52		5		
512	74000	542		SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	32	510			
513	10201	2192		LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN			2192		3 / 44
513	20000	6928		EACH	WELDED STUD SHEAR CONNECTORS			6928		
513	95020	LS			STRUCTURAL STEEL, MISC.: BEAM END REPAIR			LS		26 / 44
513	95030	96		EACH	STRUCTURAL STEEL, MISC.: BEAM RETROFIT PLATES			96		4 & 25 / 44
514	00050	2845		SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			2845		
514	00056	2845		SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			2845		
514	00060	2320		SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			2320		
514	00066	2320		SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			2320		
514	00504	15		MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			15		
514	10000	10		EACH	FINAL INSPECTION REPAIR			10		
516	10010	132		FT	ARMORLESS PREFORMED JOINT SEAL				132	
516	13600	17		SF	1" PREFORMED EXPANSION JOINT FILLER				17	
516	13900	205		SF	2" PREFORMED EXPANSION JOINT FILLER				205	
516	14020	155		FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	155				
516	44201	16		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (12"x14"x3.885" WITH 14"x15"x1.50" LOAD PLATE)	16				28 / 44
516	44201	24		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (14"x16"x3.848" WITH 15"x17"x1.75" LOAD PLATE)		24			29 / 44
516	47001	LS			JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			LS		4 & 26 / 44
518	21200	98		CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	98				
518	40001	167		FT	6" PERFORATED CORRUGATED PLASTIC PIPE, AS PER PLAN	167				4 , 12 & 15 / 44
518	40010	130		FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	130				
SPECIAL	51900100	1980		SF	SPECIAL - COMPOSITE FIBER WRAP SYSTEM (SEE PROPOSAL NOTE)		1980			22 / 44
519	11101	220		SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	25	195			4 / 44
526	25010	359		SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")				359	
526	90030	131		FT	TYPE C INSTALLATION				131	
SPECIAL	53001300	1540		FT	SPECIAL - STRUCTURES, REMOVAL OF ASBESTOS CONTAINING MATERIAL			1540		4 / 44
601	20001	100		SY	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN				100	2 & 4 / 44
607	39900	350		FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC			350		
SPECIAL	69098400		LS		SPECIAL - DOMINION ENERGY OHIO STABILIZER AND SUPPORTS				LS	4 , 27 & 34 / 44

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DESIGN AGENCY: H&R ENGINEERING, INC. 100 SUPERIOR AVE., SUITE 650 CLEVELAND, OHIO 44114 216-912-4240

DATE: 3/2021

REVIEWED: JMS

STRUCTURE FILE NUMBER: 6700691

DESIGNED: BTA

CHECKED: NJH

DRAWN: BTA

REVISED:

ESTIMATED QUANTITIES

BRIDGE NO. POR-14-1296

S.R. 14 OVER S.R. 5

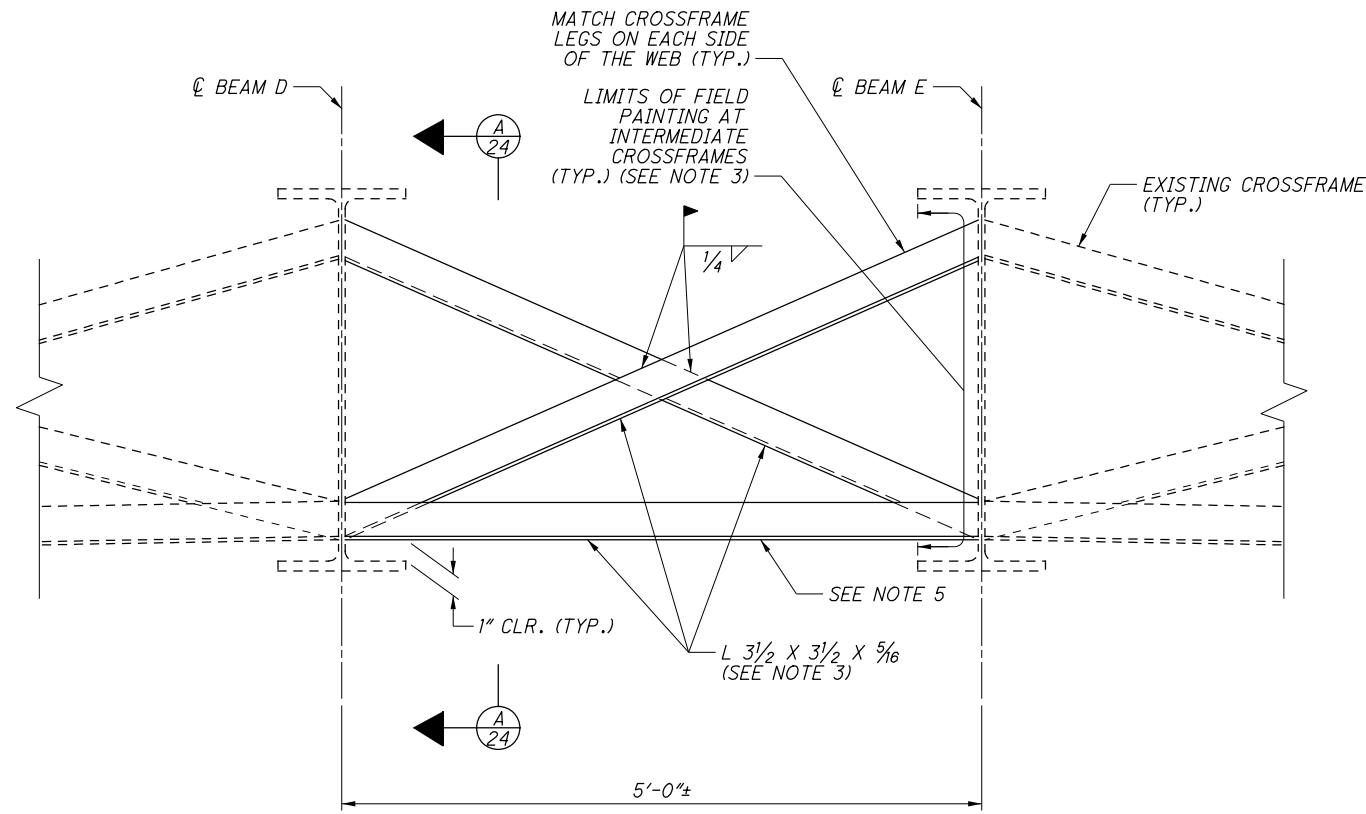
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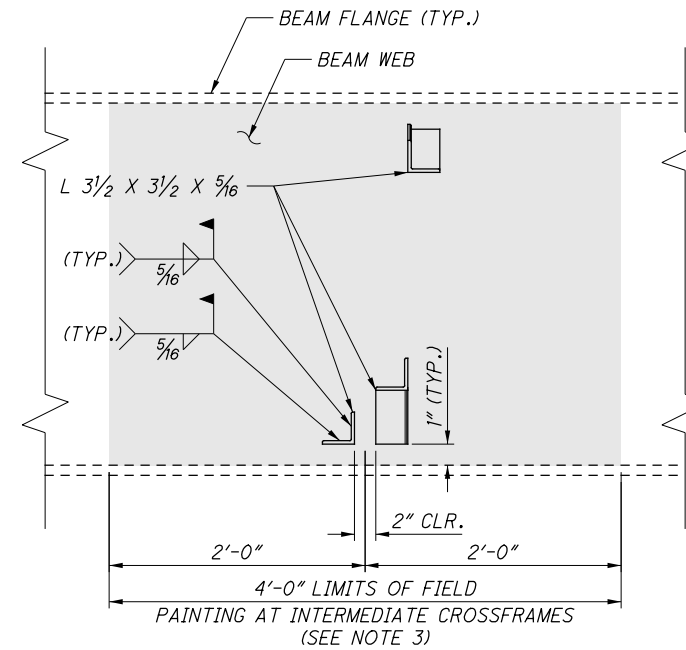
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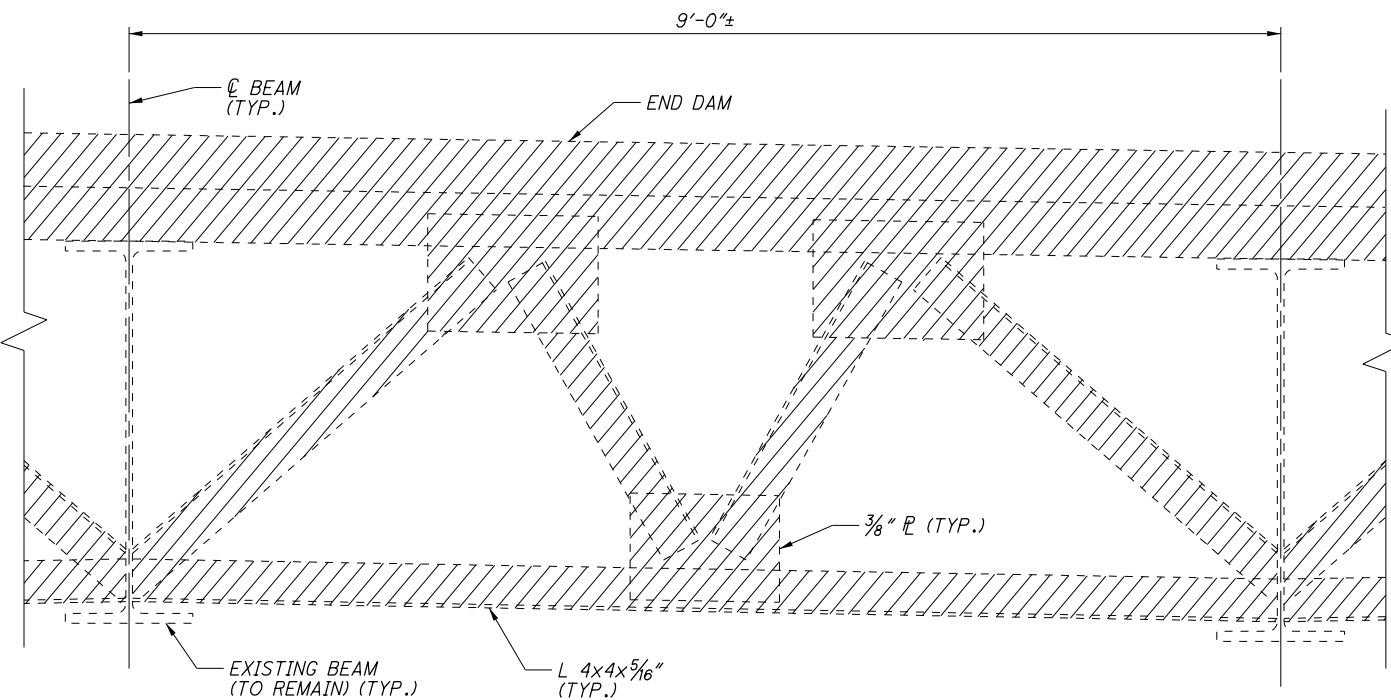
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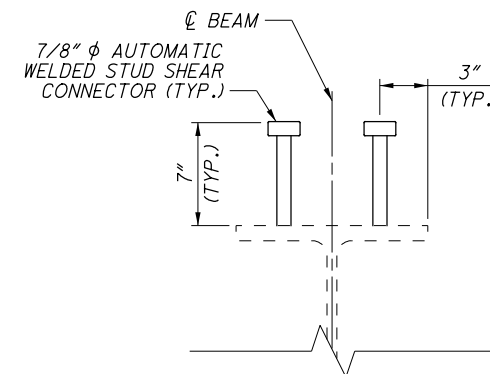
PROPOSED INTERMEDIATE CROSSFRAME



SECTION A-A



TYPICAL END CROSSFRAME REMOVAL DETAIL



SHEAR STUD DETAIL

NOTES:

1. COORDINATE END CROSSFRAME REMOVAL WITH STAGED CONSTRUCTION. FOR ADDITIONAL DETAILS SEE SHEETS [6/44] AND [7/44].
 2. FOR ADDITIONAL END CROSSFRAME DETAILS, SEE THE EXISTING PLANS.
 3. PROPOSED INTERMEDIATE CROSSFRAMES SHALL BE SHOP PRIMED AND FIELD PAINTED WITH AN OZEU THREE COAT PAINT SYSTEM PER CMS 514. INTERMEDIATE AND FINISH COATS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT AND ITEM 514 - FIELD PAINTING STRUCTURAL STEEL, FINISH COAT.
- EXISTING STRUCTURAL STEEL COATINGS DAMAGED BY THE INSTALLATION OF PROPOSED CROSSFRAMES SHALL BE SURFACE PREPPED AND FIELD PAINTED WITH AN OZEU THREE COAT PAINT SYSTEM PER CMS 514. SEE DETAIL THIS SHEET FOR LIMITS OF REPAIR.
4. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 WITH A CVN DESIGNATION.
 5. FOR ADDITIONAL CROSSFRAME DETAILS, SEE ARCHIVED STD. DWG. GSD-1-96.

LEGEND:

 - INDICATES AREAS TO BE REMOVED AS PER ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

 - INDICATES LIMITS OF SURFACES TO BE PAINTED WITH SYSTEM OZEU, SEE NOTES THIS SHEET