SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	26	27	39	43	44					1/NHS/BR	2/NHS/OT	3/NHS/OT						
																	ROADWAY	
LS										LS	LS		201	11000	LS		CLEARING AND GRUBBING	
		2,474								2,474			202	23001	2,474	SY	PAVEMENT REMOVED, AS PER PLAN	29
	444									444			202	38000	444	FT	GUARDRAIL REMOVED	
			954							954			203	10000	954	CY	EXCAVATION	
			267							267			203	20000	267	CY	EMBANKMENT	
		2,701								2,701			204	10000	2,701	SY	SUBGRADE COMPACTION	
80										80			204	13000	80	CY	EXCAVATION OF SUBGRADE	
80										80			204	30010	80	CY	GRANULAR MATERIAL, TYPE B	
2										2			204	45000	2	HOUR	PROOF ROLLING	
239										239			204	50000	239	SY	GEOTEXTILE FABRIC	
	363									363			606	15050	363	FT	GUARDRAIL, TYPE MGS	
	3									3			606	26100	3	EACH	ANCHOR ASSEMBLY, TYPE E	7
	1									1			606	26500	1	EACH	ANCHOR ASSEMBLY, TYPE T	
	4									4			606	35002	4	EACH	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, BBBBBB100	
					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	

CALCULATED REM
CHECKED MJL

GENERAL SUMMARY

POR-14-12.96

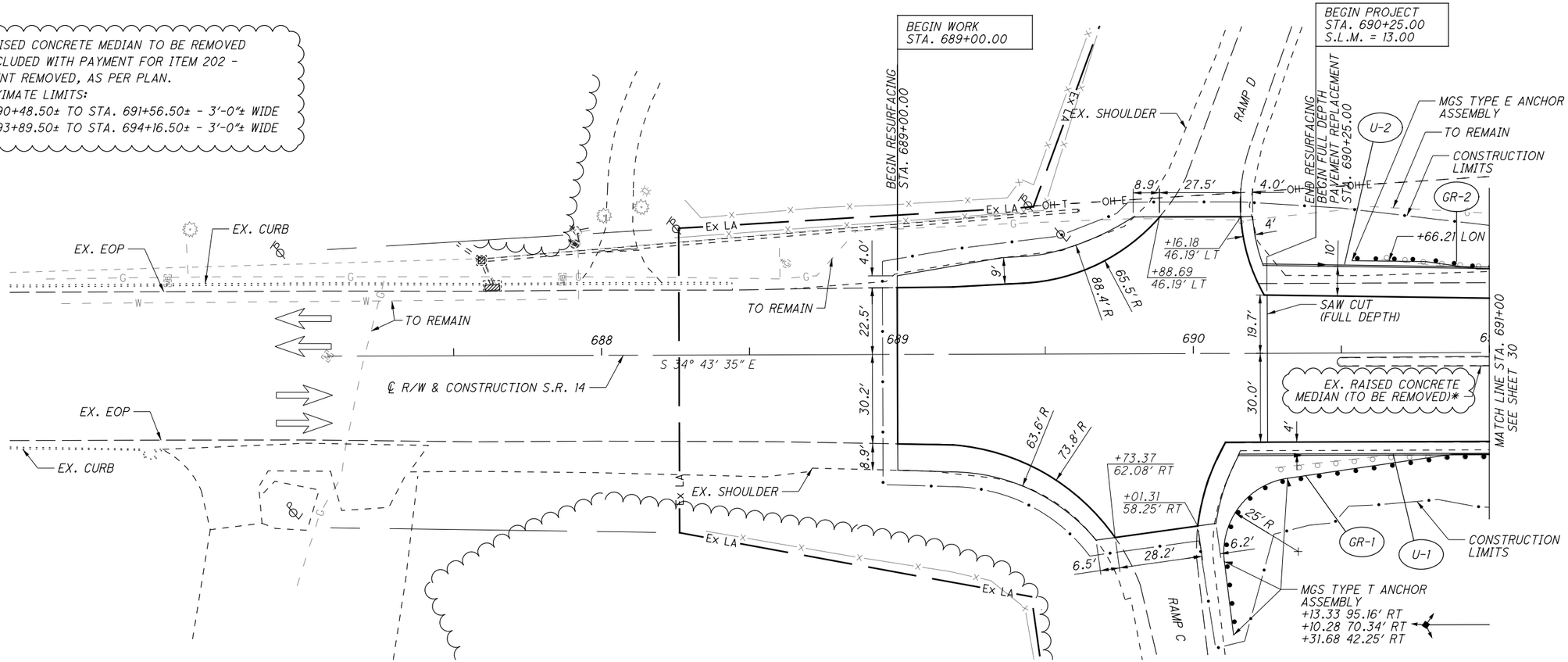
STATION TO STATION		SIDE	LENGTH L	AVERAGE WIDTH W	SURFACE AREA A (SF) A=LxW	CAD MEASURED AREAS	204 SUBGRADE COMPACTION SY	204 PAVEMENT REMOVED, APP SY	254 PAVEMENT PLANING, ASPHALT CONCRETE SY	301 9" ASPHALT CONCRETE BASE, PG 64-22 CY	304 6" AGGREGATE BASE CY	407 NON-TRACKING TACK COAT (0.055 GAL/SY) GAL	407 NON-TRACKING TACK COAT (0.085 GAL/SY) GAL	441 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG 64-22, APP CY	441 1-1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) CY	441 VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) CY
S.R. 14																
689+00.00	690+25.00	LT/RT				10518			1169			64	99	49	49	
690+16.18	690+25.00	LT				102						1		1	1	
						120				3		1				
						132	15				2	1				
						118		13								
690+01.31	690+25.00	RT				212						1		1	1	
						246				7		3				
						267	30				5	2				
						197		22								
689+00.00	691+35.60	LT/RT				6671						41		31	31	
						6848				190		84				
						6955	773				129	42				
						6379		709								
694+10.94	696+00.00	LT/RT				11452						70		54	54	
						11646				324		142				
						11763	1307				218	72				
						11413		1268								
696+00.00	697+68.35	LT/RT				9571			1063			58	90	44	44	
696+00.00	697+68.35	LT				774						5		4	4	7
						903				28		11				
						980	109				18	6				
						619		69								
RAMP E																
10+89.74	12+43.96	LT/RT				1702						10		8	8	
						1830				51		22				
						1907	212				35	12				
						1586		176								
12+43.96	13+25.00	LT/RT				2072						13		10	10	
						2137				59		26				
						2294	255				42	14				
						1953		217								
SUB TOTALS							2701	2474	2232	662	449	701	189	202	202	7
TOTALS CARRIED TO GENERAL SUMMARY							2701	2474	2232	662	449	890		202	202	7

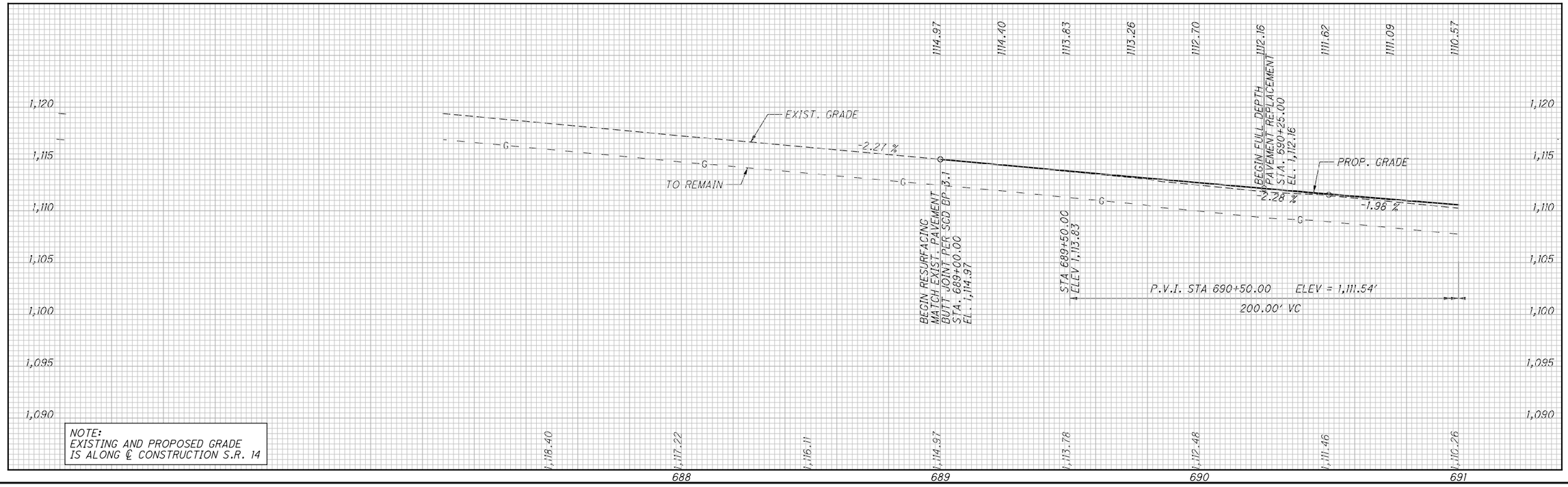
CALCULATED REM
CHECKED MJL

PAVEMENT SUBSUMMARY

POR-14-12.96

* - EX. RAISED CONCRETE MEDIAN TO BE REMOVED AND INCLUDED WITH PAYMENT FOR ITEM 202 - PAVEMENT REMOVED, AS PER PLAN.
APPROXIMATE LIMITS:
STA. 690+48.50± TO STA. 691+56.50± - 3'-0"± WIDE
STA. 693+89.50± TO STA. 694+16.50± - 3'-0"± WIDE





HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED REM
CHECKED MJL

PLAN AND PROFILE
BEGIN TO 691+00

POR-14-12.96

29
90

c:\pwworking\east01\d0574921\105860_GP001.dgn 9/23/2021 1:49:59 PM BAVARELL

SFN: 6700691

ESTIMATED QUANTITIES

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

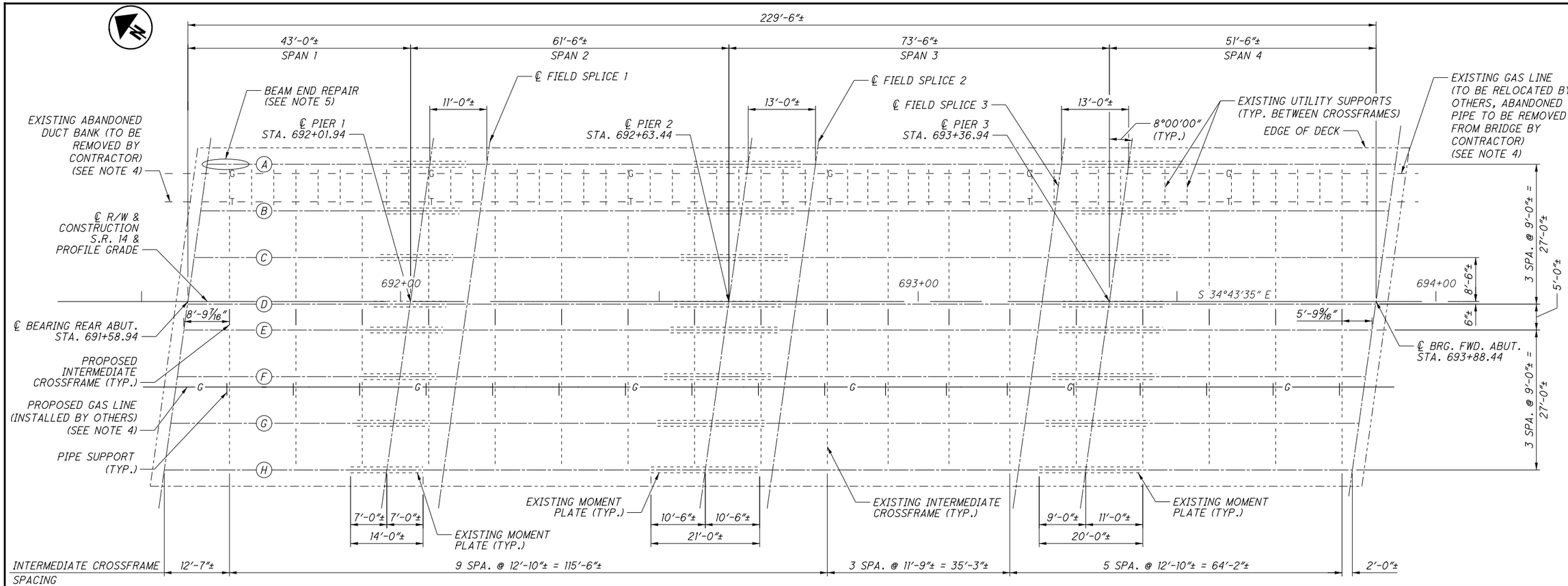
ITEM	EXTENSION	TOTAL 01/NHS/BR	TOTAL 03/NHS/OT	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPERSTR.	GENERAL	SHEET REF.
202	11203	LS			PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	3 , 4 & 24 / 44
202	22900	306		SY	APPROACH SLAB REMOVED				306	
202	23500	1862		SY	WEARING COURSE REMOVED				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 OF EXISTING STRUCTURAL STEEL, INTERMEDIATE COAT			2320		
514	00066	2320		SF	FIELD PAINTING OF EXISTING 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	16				28 / 44
					(12"x14"x3.885" WITH 14"x15"x1.50" LOAD PLATE)					
516	44201	24		EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN		24			29 / 44
					(14"x16"x3.848" WITH 15"x17"x1.75" LOAD PLATE)					
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 STABLIZER AND SUPPORTS				LS	4 , 27 & 34 / 44

DESIGN AGENCY
HDR ENGINEERING, INC.
1100 SUPERIOR AVE., SUITE 650
CLEVELAND, OHIO 44114
216-912-4240

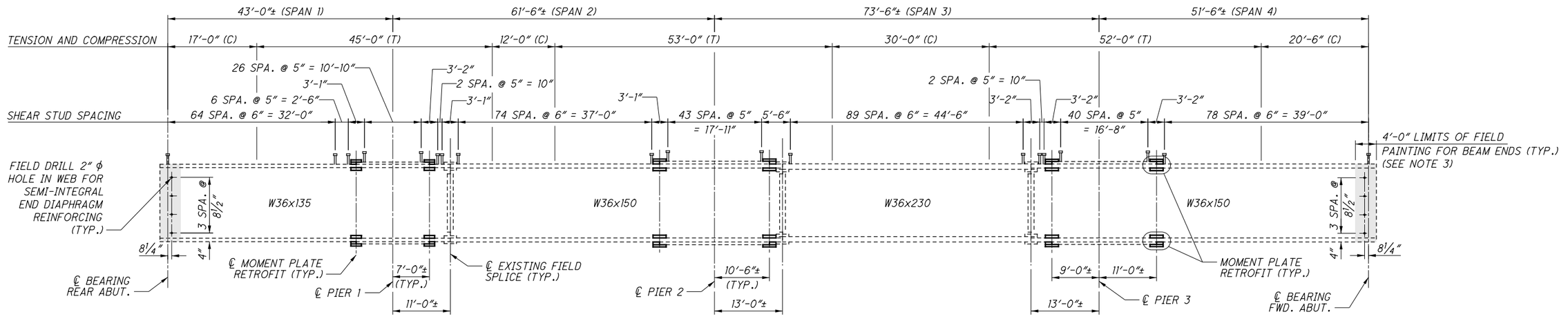
DESIGNED BTA | DRAWN BTA | REVIEWED JMS | DATE 3/2021
CHECKED NJH | REVISED | STRUCTURE FILE NUMBER 6700691

ESTIMATED QUANTITIES
BRIDGE NO. POR-14-1296
S.R. 14 OVER S.R. 5

POR-14-12.96
PID No. 105860



FRAMING PLAN



BEAM ELEVATION

LEGEND:

(T) - DENOTES AREA OF TENSION IN THE TOP FLANGE
(C) - DENOTES AREA OF COMPRESSION IN THE TOP FLANGE

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

NOTES:

1. DO NOT INSTALL INTERMEDIATE CROSSFRAMES UNTIL BOTH DECK PHASES ARE POURED AND BEFORE THE CASTING OF THE CLOSURE POUR. FOR ADDITIONAL CROSSFRAME DETAILS, SEE SHEET 24/44 .
2. WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM THE EDGE OF THE FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSES UP TO 3/4" OR 5/16" FOR GREATER THAN 3/4" THICK. WELDED ATTACHMENTS LEFT IN PLACE SHALL BE GALVANIZED PER CMS 711.02 AND ARE INCIDENTAL TO ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN.
3. FIELD PREPARE AND PAINT THE LAST 4'-0" AT EACH BEAM END, UNLESS NOTED OTHERWISE, WITH AN OZEU PRIME COAT PER CMS 514. FOR ADDITIONAL BEAM A PAINTING AT THE REAR ABUTMENT, SEE SHEET 26/44.
4. FOR ADDITIONAL INFORMATION SEE GENERAL NOTES FOR ITEMS 202 PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN AND 690, SPECIAL - DOMINION ENERGY OHIO STABILIZERS AND SUPPORTS.
5. FOR BEAM END REPAIR DETAIL, SEE SHEET 26/44.

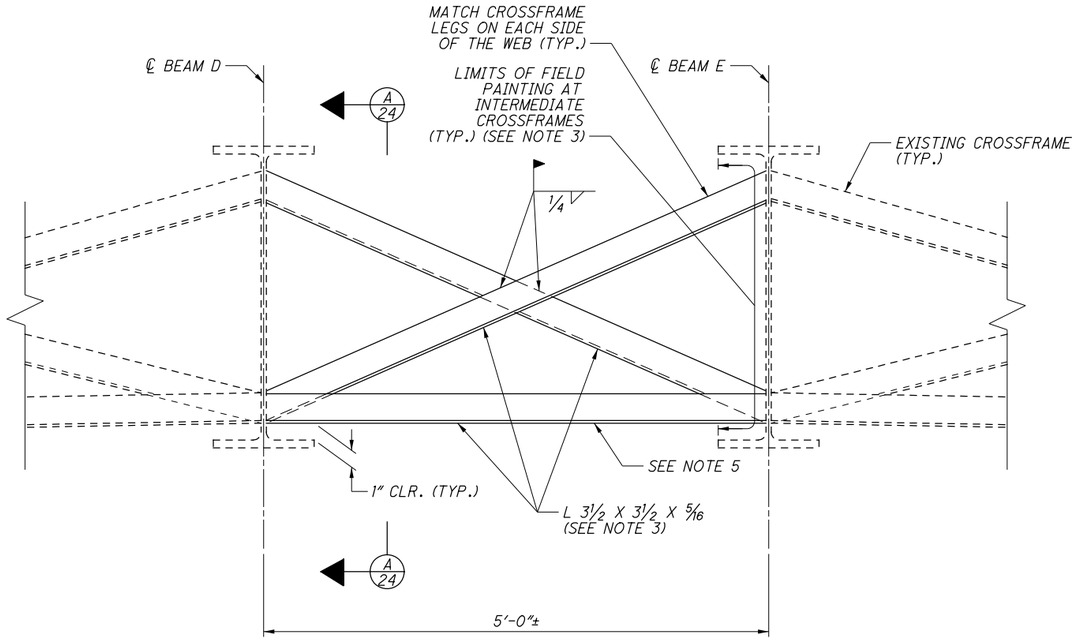
DESIGN AGENCY
HDR ENGINEERING, INC.
1100 SUPERIOR AVE., SUITE 650
CLEVELAND, OHIO 44114
216-912-4240

DESIGNED	DRAWN	REVIEWED	DATE
JTW	JTW	JMS	3/2021
CHECKED	REVISED	STRUCTURE FILE NUMBER	
NJH		6700691	

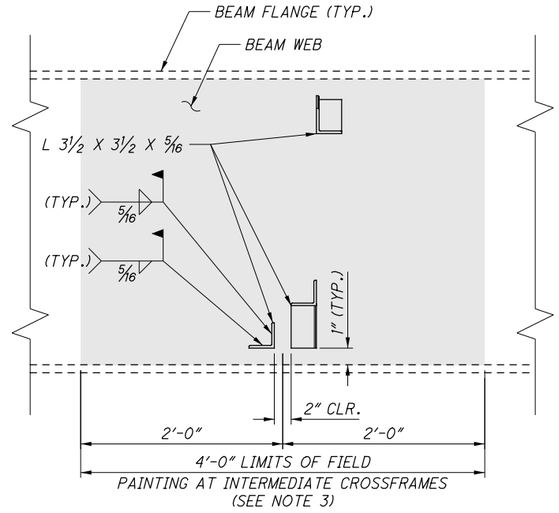
FRAMING PLAN
BRIDGE NO. POR-14-1296
S.R. 14 OVER S.R. 5

POR-14-12.96
PID No. 105860

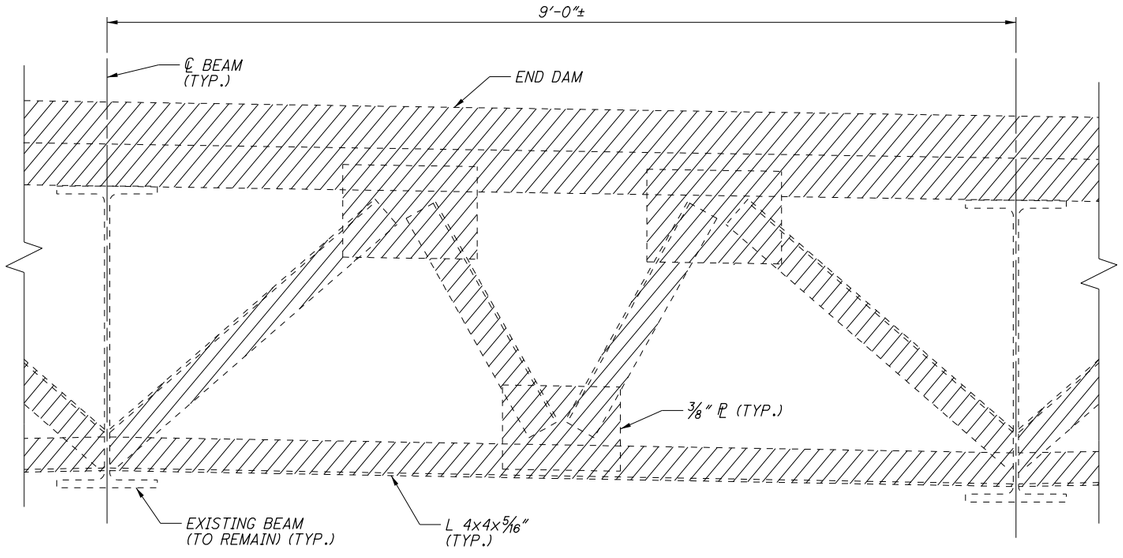
23/44
69/90



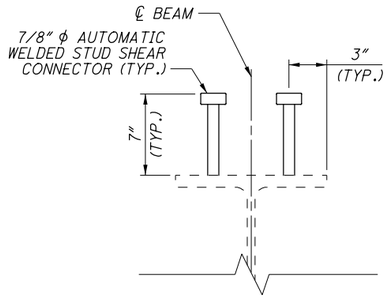
PROPOSED INTERMEDIATE CROSSFRAME



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 OF EXISTING STRUCTURAL STEEL, INTERMEDIATE COAT AND ITEM 514 - FIELD PAINTING OF EXISTING 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

DESIGN AGENCY
HDR ENGINEERING, INC.
1100 SUPERIOR AVE., SUITE 650
CLEVELAND, OHIO 44114
216-912-4240

DESIGNED	DRAWN	REVIEWED	DATE
JTW	JTW	JMS	3/2021
CHECKED	REVISED	STRUCTURE FILE NUMBER	
NJH		6700691	

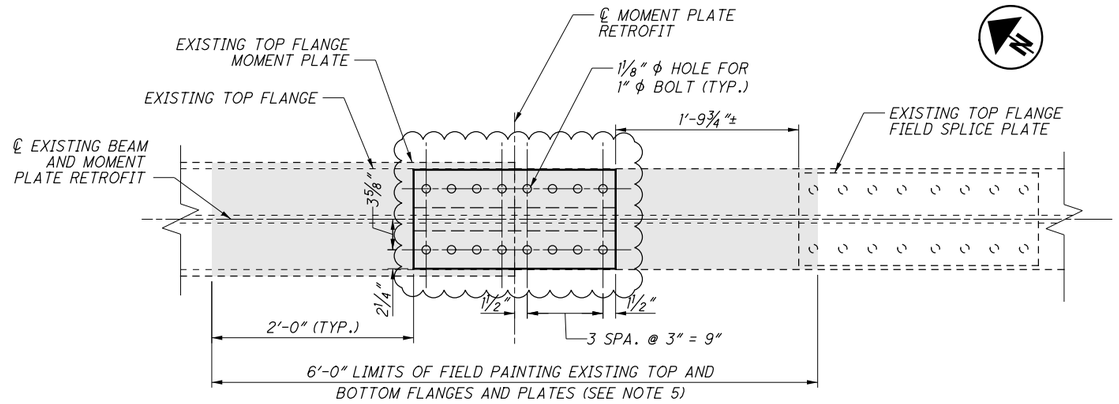
SUPERSTRUCTURE DETAILS - 1

BRIDGE NO. POR-14-1296
S.R. 14 OVER S.R. 5

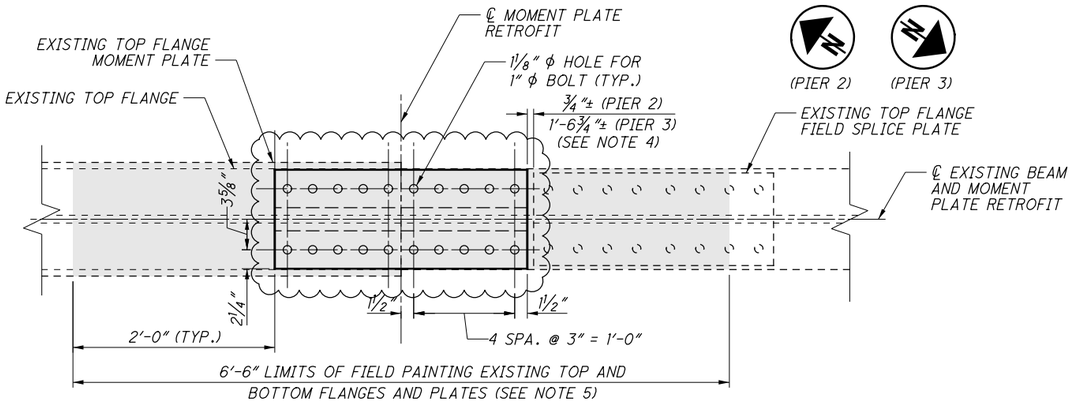
POR-14-12.96
PID No. 105860

24/44

70/90

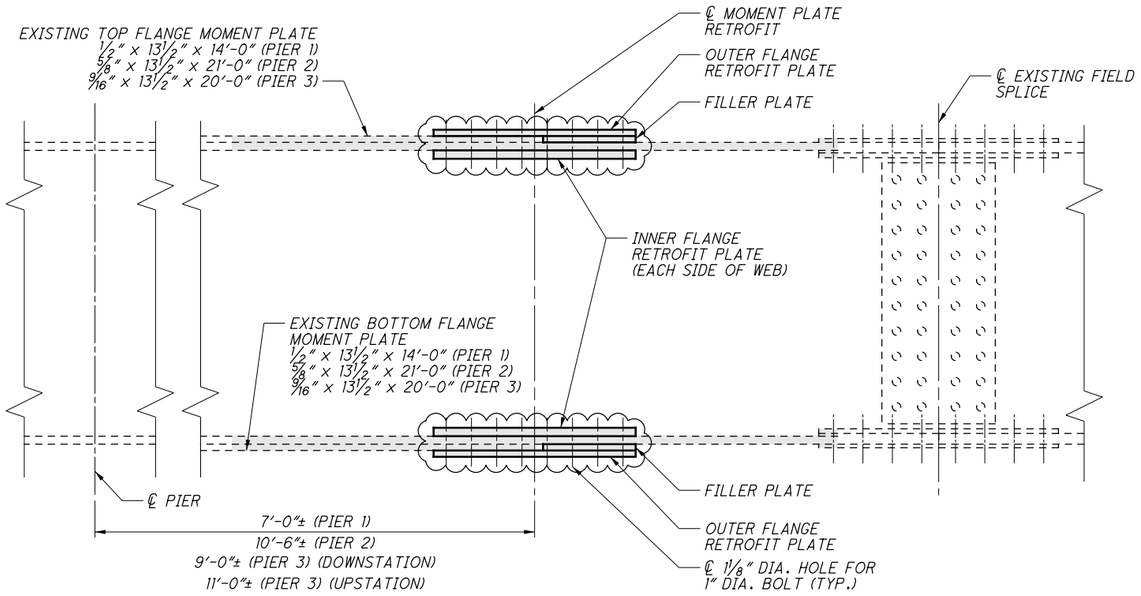


(PIER 1 TOP FLANGE SHOWN, BOTTOM FLANGE SIMILAR)
(BOLT SPACING IS SYMMETRICAL ABOUT ℄ BEAM AND ℄ MOMENT PLATE RETROFIT)



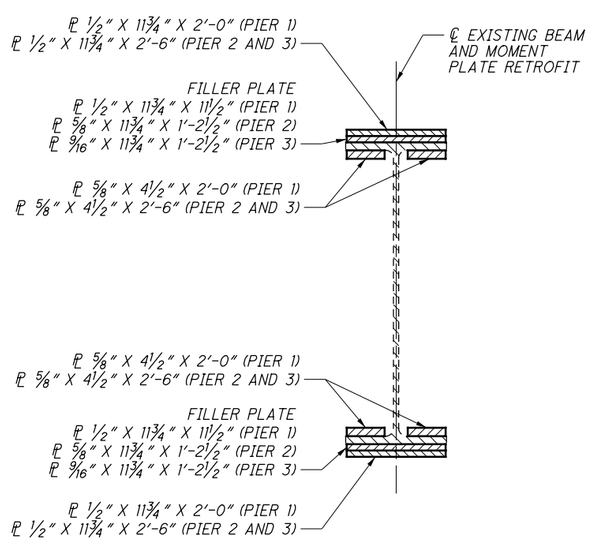
(PIER 2 AND PIER 3 TOP FLANGE SHOWN, BOTTOM FLANGE SIMILAR)
(BOLT SPACING IS SYMMETRICAL ABOUT ℄ BEAM AND ℄ MOMENT PLATE RETROFIT)

FLANGE MOMENT PLATE RETROFIT PLAN



TYPICAL MOMENT PLATE RETROFIT ELEVATION

(PIER 1 OR PIER 2 SHOWN, PIER 3 SIMILAR)



TYPICAL MOMENT PLATE RETROFIT SECTION

LEGEND:

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

NOTES:

1. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 WITH A CVN DESIGNATION EXCEPT FILLER PLATES.
2. HIGH STRENGTH BOLTS SHALL BE 1" ϕ ASTM F3125 GRADE A325, TYPE I.
3. FOR BEAM ELEVATION, SEE SHEET 23/44.
4. FOR ADDITIONAL RETROFIT PLATE INFORMATION, SEE ITEM 513 - STRUCTURAL STEEL MISC.: BEAM RETROFIT PLATES IN THE GENERAL NOTES, SHEET 3/44.
5. EXISTING TOP FLANGE STRUCTURAL STEEL AND EXISTING TOP FLANGE MOMENT PLATES, THAT ARE EMBEDED IN THE DECK HAUNCH, AND WITHIN THE LIMITS DEFINED, SHALL BE SURFACED PREPPED AND PRIMED ONLY WITH AN OZEU PAINT COAT SYSTEM PER CMS 514.

TOP FLANGE OUTER PLATE RETROFITS AND TOP FLANGE FILLER PLATE RETROFITS, THAT ARE EMBEDED IN THE DECK HAUNCH, SHALL BE SHOP PRIMED ONLY WITH AN OZEU PAINT COAT SYSTEM PER CMS 514.

TOP FLANGE INNER PLATE RETROFITS, BOTTOM FLANGE INNER AND OUTER PLATE RETROFITS, AND BOTTOM FLANGE FILLER PLATE RETROFITS, THAT ARE EXPOSED, SHALL BE SHOP PRIMED AND FIELD PAINTED WITH AN OZEU THREE COAT PAINT SYSTEM PER CMS 514.

EXPOSED EXISTING STRUCTURAL STEEL FLANGES, TOP AND BOTTOM, INCLUDING EXISTING PLATES AND SPLICES, WITHIN THE LIMITS DEFINED, SHALL BE SURFACE PREPPED AND FIELD PAINTED WITH AN OZEU THREE COAT PAINT SYSTEM PER CMS 514. SEE DETAILS THIS SHEET FOR LIMITS OF REPAIR.

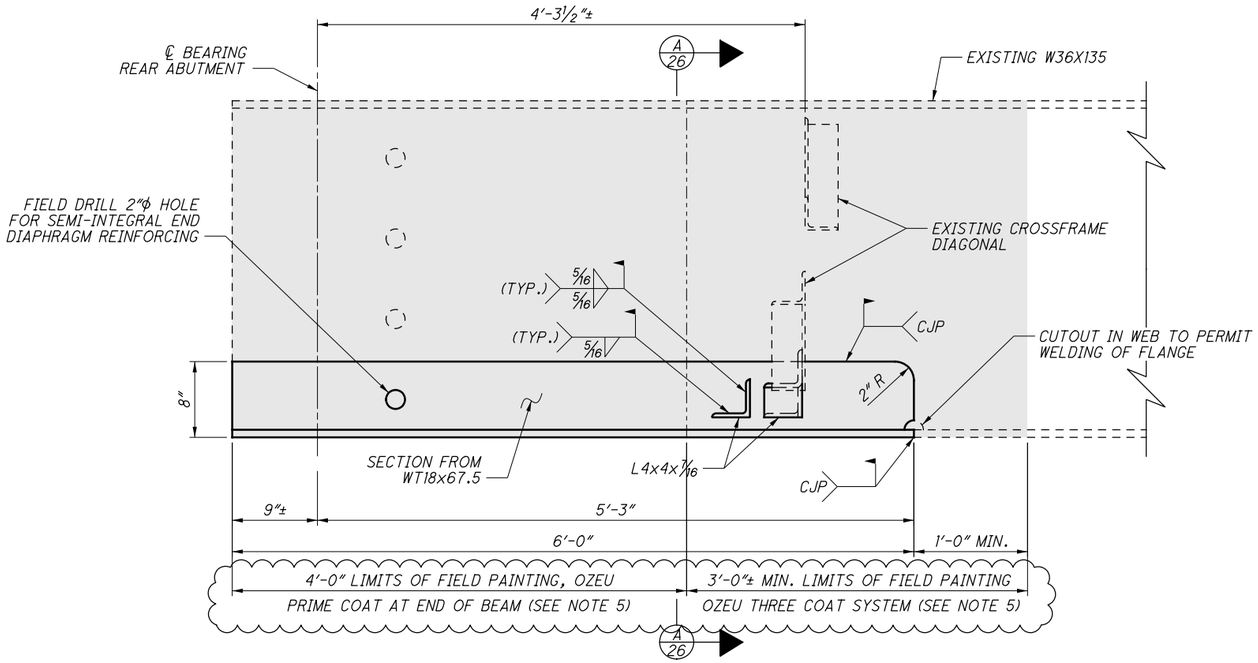
DESIGN AGENCY
HDR ENGINEERING, INC.
1100 SUPERIOR AVE., SUITE 650
CLEVELAND, OHIO 44114
216-912-4240

DESIGNED KRH | DRAWN JTW | REVIEWED JMS | DATE 3/2021
CHECKED NJH | REVISED | STRUCTURE FILE NUMBER 6700691

SUPERSTRUCTURE DETAILS - 2
BRIDGE NO. POR-14-1296
S.R. 14 OVER S.R. 5

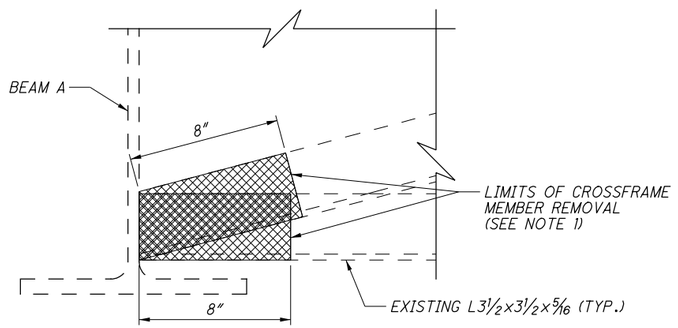
POR-14-12.96
PID No. 105860

25 / 44
71 / 90

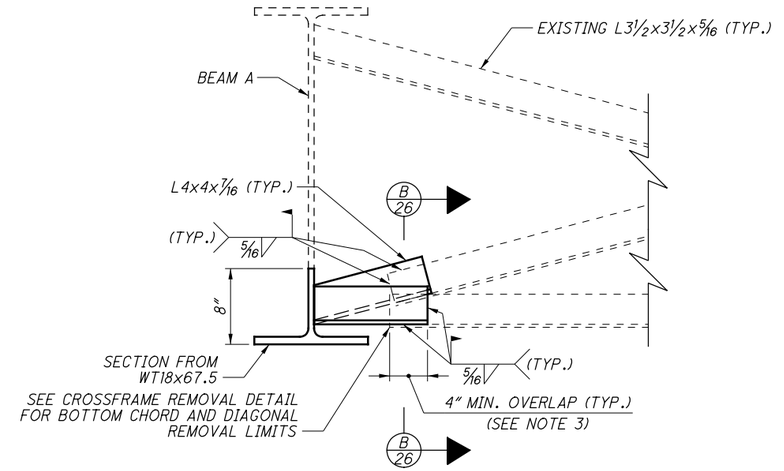


BEAM A END REPAIR ELEVATION VIEW

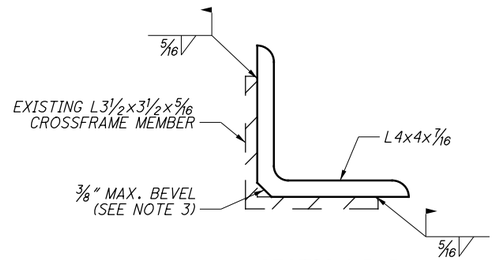
(ONLY REPAIR AT REAR ABUTMENT)



CROSSFRAME REMOVAL DETAIL



SECTION A-A



SECTION B-B

(BOTTOM CHORD ANGLE SHOWN, DIAGONAL ANGLE SIMILAR)

LEGEND:

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

NOTES:

1. BEAM END REPAIR, INCLUDING ALL WELDING AND NON-DESTRUCTIVE TESTING, SHALL BE IN ACCORDANCE WITH CMS 513. PERFORM THE COMPLETE PENETRATION WELDING PER CMS 513.21. COMPLETE NON-DESTRUCTIVE TESTING FOR THE FULL LENGTH OF ALL BUTT WELDS PER CMS 513.25A. REPAIR AND WELDING SHALL BE PERFORMED IN THE PRESENCE OF, AND INSPECTED BY, THE ENGINEER. REMOVE PORTIONS OF THE EXISTING CROSSFRAME PRIOR TO REMOVING THE EXISTING END REPAIR SECTION. PAYMENT FOR THIS WORK SHALL BE INCLUDED WITH ITEM 513 - STRUCTURAL STEEL, MISC.: BEAM END REPAIR. TEMPORARY SUPPORT OF BEAM A DURING THE REPAIR IS REQUIRED AND SHALL BE INCLUDED FOR PAYMENT WITH ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 50 WITH A CVN DESIGNATION.
3. IF NECESSARY THE REPLACEMENT CROSSFRAME ANGLES MAY BE BEVELED A MAXIMUM OF 3/8" FOR THE PORTION OVERLAPPING THE EXISTING ANGLE TO ALLOW FULL CONTACT BETWEEN THE LEGS OF THE NEW AND EXISTING ANGLES.
4. CAREFULLY GRIND THE COMPLETED CJP WELD, WT SECTION, EXISTING WEB AND EXISTING FLANGE TO CREATE A SMOOTH TRANSITION BETWEEN THICKNESSES. REMOVE ALL SHARP EDGES AND CORNERS CREATED BY THE BEAM END REPAIR. THE GRINDING SHALL BE IN THE DIRECTION OF THE LONGITUDINAL AXIS OF OF THE BEAM.
5. AT THE BEAM A REPAIR LOCATION, FOR THE FIRST 4'-0"± AT THE END OF THE BEAM A, SURFACE PREPARE AND FIELD APPLY A OZEU PRIME COAT PER CMS 514. FOR THE NEXT 3'-0"±, TERMINATING APPROXIMATELY 1'-0"± PAST THE END OF THE REPAIR, SURFACE PREPARE AND FIELD APPLY A OZEU THREE COAT PAINT SYSTEM PER CMS 514. CAULK ANY OPENINGS OR GAPS PER CMS 514.19.
6. FOR END CROSSFRAME REMOVAL DETAIL, SEE SHEET 24/44.

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DESIGNED	DRAWN	REVIEWED	DATE
NJH	NJH	JMS	3/2021
CHECKED	REVISED	STRUCTURE FILE NUMBER	
JTW		6700691	

SUPERSTRUCTURE DETAILS - 3

BRIDGE NO. POR-14-1296
S.R. 14 OVER S.R. 5

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