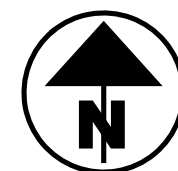


CLINTON COUNTY



NONE REQUIRED

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8 ENGINEERING
505 SOUTH S.R. 741 LEBANON, OHIO 45036

1
2
3
4 - 5
6
7
8 - 9
10 - 16
17
18 - 31

SPECIAL PROVISIONS


Pamela Boratyn
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY



DESIGNER

GTF

REVIEWER

DO 11/07/2

PROJECT ID

102750

SHEET	TOTAL
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31

SHEET NUMBER													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	7	9										01/STR						
													LUMP	201	11000	LS		ROADWAY	
		516											516	202	23000	516	SY	CLEARING AND GRUBBING	
		168.75											168.75	202	38000	168.75	FT	PAVEMENT REMOVED	
		4											4	202	42001	4	EACH	GUARDRAIL REMOVED	
																		ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	
													72	203	20000	72	CY	EMBANKMENT	
		18.75											18.75	606	15050	18.75	FT	GUARDRAIL, TYPE MGS	
		3											3	606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
		1											1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
		4											4	606	34600	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	
		335											335	204	30020	335	CY	GRANULAR MATERIAL, TYPE C	
		1,005											1,005	204	10000	1,005	SY	SUBGRADE COMPACTION	
		335											335	204	13000	335	CY	EXCAVATION OF SUBGRADE, 12" DEEP	
		1,005											1,005	204	50000	1,005	SY	GEOTEXTILE FABRIC	
		0.06											0.06	209	15050	0.06	MILE	RESHAPING UNDER GUARDRAIL	
													LUMP	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
		746											746	254	01000	746	SY	PAVEMENT PLANING, ASPHALT CONCRETE(D=1.50")	
		178											178	301	56000	178	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
		405											405	304	20000	405	CY	AGGREGATE BASE	
		257											257	407	20000	257	GAL	NON-TRACKING TACK COAT	
		88											88	441	70000	88	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
																		EROSION CONTROL	
189													189	659	00300	189	CY	TOPSOIL	
1,700													1,700	659	10000	1,700	SY	SEEDING AND MULCHING	
85													85	659	14000	85	SY	REPAIR SEEDING AND MULCHING	
0.24													0.24	659	20000	0.24	TON	COMMERCIAL FERTILIZER	
0.35													0.35	659	31000	0.35	ACRE	LIME	
9.4													9.4	659	35000	9.4	MGAL	WATER	
													10,000	832	30000	10,000	EACH	EROSION CONTROL	
			0.55										0.55	601	32200	0.55	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
			0.21										0.21	602	20000	0.21	CY	CONCRETE MASONRY	
			102										102	611	04400	102	FT	12" CONDUIT, TYPE B	
			2										2	611	98150	2	EACH	CATCH BASIN, NO. 3	
		10											10	621	00100	10	EACH	TRAFFIC CONTROL	
		11											11	621	54000	11	EACH	RPM	
		0.04											0.04	644	00104	0.04	EACH	RAISED PAVEMENT MARKER REMOVED	
		0.02											0.02	644	00300	0.02	MILE	EDGE LINE, 6"	
		0.16											0.16	646	10010	0.16	MILE	CENTER LINE	
		0.08											0.08	646	10200	0.08	MILE	EDGE LINE, 6"	
																		CENTER LINE	
																		STRUCTURE OVER 20 FOOT SPAN (CLI-133-0211)	
																		SEE SHEET 19	
	80												80	614	11111	80	hour	MAINTENANCE OF TRAFFIC	
													LUMP	614	12420	LS		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN	
																		DETOUR SIGNING	
													LUMP	614	11000	LS		INCIDENTALS	
													LUMP	623	10000	LS		MAINTAINING TRAFFIC	
													LUMP	624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
																		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER

GTF

REVIEWER

JDO 11/07/25

PROJECT ID

102750

SHEET

6

TOTAL

31

PAVEMENT CALCULATIONS																							
ROUTE	STATION		SIDE	LENGTH		PAVEMENT AREA	202			204	204	204	204	204	209	254		301	304	407	441		NOTES
							PAVEMENT REMOVED	APPROACH SLAB REMOVED	WEARING COURSE REMOVED	GRANULAR MATERIAL, TYPE C	SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE, 12" DEEP	GEOTEXTILE FABRIC	PROOF ROLLING	RESHAPING UNDER GUARDRAIL	PAVEMENT PLANING ASPHALT CONCRETE		8" ASPHALT CONCRETE BASE, PG64-22	6" AGGREGATE BASE	NON TRACKING TACK COAT @ 0.09 GAL/SQ YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22		
	DEPTH															THICK-NESS							
																					SQ YD	SQ YD	
CLI 133 0221	111+00.00	111+61.25	LT		61										0.01								GUARDRAIL INSTALLATION
CLI 133 0221	112+16.50	113+07.00	LT		91										0.02								
CLI 133 0221	111+25.00	111+61.25	RT		36										0.01								
CLI 133 0221	112+16.50	113+11.00	RT		95										0.02								
CLI 133 0221	109+34.52	111+10.07	LT		176	119	87			50	149	50	149					33	25	21.5	3.00	10	SHOULDER WIDENING
CLI 133 0221	109+12.50	111+10.07	CL		198	483										1.50	483			86.9	1.50	20	RESURFACING
CLI 133 0221	109+22.32	111+10.07	RT		188	138	68			56	169	56	169					38	28	24.8	3.00	11	SHOULDER WIDENING
CLI 133 0221	111+10.07	111+35.07	LT		25	27	16			10	31	10	31	1.0				7	5	4.8	3.00	2	FULL DEPTH AC PAVEMENT
CLI 133 0221	111+10.07	111+41.23	CL		31	76	76			25	76	25	76					17	13	13.7	3.00	6	
CLI 133 0221	111+10.07	111+47.60	RT		38	35	18			14	41	14	41					9	7	6.2	3.00	3	
CLI 133 0221	111+41.23	111+61.24	CL		20	25	25	70	70	34	103	34	103						136				REAR APPROACH SLAB
CLI 133 0221	111+61.24	112+16.41	CL		55																		BRIDGE: CLI-134-0225
CLI 133 0221	112+16.41	112+36.41	CL		20	23	23	70	70	34	103	34	103						136				FORWARD APPROACH SLAB
CLI 133 0221	112+28.50	112+69.73	LT		41	40	18			16	47	16	47	1.0				10	8	7.2	3.00	3	FULL DEPTH AC PAVEMENT
CLI 133 0221	112+36.41	112+69.73	CL		33	81	82			27	81	27	81					18	14	14.7	3.00	7	
CLI 133 0221	112+44.73	112+69.73	RT		25	25	16			10	29	10	29					6	5	4.4	3.00	2	
CLI 133 0221	112+69.73	113+77.05	LT		107	84	50			34	102	34	102					23	17	15.0	3.00	7	SHOULDER WIDENING
CLI 133 0221	112+69.73	113+77.05	CL		107	262										1.50	262			47.2	1.50	11	RESURFACING
CLI 133 0221	112+69.73	113+77.05	RT		107	57	37			25	74	25	74					17	12	10.2	3.00	5	SHOULDER WIDENING
TOTALS CARRIED TO GENERAL SUMMARY							516	140	140	335	1005	335	1005	2	0.06		746	178	405	257		88	

PART	ROUTE	STATION		TOTAL	644				646				621		626	REMARKS
					CENTER LINE		EDGE LINE, 6"		CENTER LINE		EDGE LINE, 6"		RAISED PAVEMENT MARKER REMOVED	RPM	BARRIER REFLECTOR (TWO-WAY)	
		DASHED	SOLID		WHITE		DASHED	SOLID	WHITE							
		FROM	TO		MILE	MILE	MILE	MILE	MILE	MILE	MILE	MILE	EACH	EACH	EACH	
01/STR/13	CLI 134 0225	109+12.50	111+41.23	0.05		0.05	0.10						7	6	5	RESURFACING / FULL DEPTH AC PAVEMENT
01/STR/13	CLI 134 0225	111+41.23	112+36.41	0.02					0.02	0.04						REAR APPROACH SLAB / BRIDGE CLI-134-0225 / FORWARD APPROACH SLAB
01/STR/13	CLI 134 0225	112+36.41	113+77.05	0.03		0.03	0.06						4	4	6	FULL DEPTH AC PAVEMENT / RESURFACING
	TOTALS CARRIED TO GENERAL SUMMARY					0.08	0.16		0.02	0.04			11	10	11	

GUARDRAIL QUANTITY TABLE CLI-133-0211				
GUARDRAIL TYPE	BEGIN	END	SIDE	LENGTH
ANCHOR ASSEMBLY, MGS TYPE E	110+67.56,	111+20.68,	L	53'-1½"
ANCHOR ASSEMBLY REMOVED, TYPE A	111+00.00,	110+75.00,	L	25'-0"
GUARDRAIL REMOVED	110+75.00,	111+54.77,	L	81'-3"
GUARDRAIL, TYPE MGS	111+20.68,	111+26.93,	L	6'-3"
BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	111+26.93,	111+54.77,	L	26'-5"
ANCHOR ASSEMBLY, MGS TYPE T	111+30.25,	111+41.00,	R	12'-6"
ANCHOR ASSEMBLY REMOVED, TYPE T	111+30.25,	111+41.00,	R	12'-6"
GUARDRAIL REMOVED	111+41.00,	111+67.42,	R	25'-0"
BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	111+41.00,	111+67.42,	R	26'-5"
BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	112+09.09,	112+35.50,	L	26'-5"
GUARDRAIL, TYPE MGS	112+35.50,	112+41.75,	L	6'-3"
GUARDRAIL REMOVED	112+09.09,	112+38.00,	L	31'-3"
ANCHOR ASSEMBLY REMOVED, TYPE A	112+38.00,	112+63.00,	L	25'-0"
ANCHOR ASSEMBLY, MGS TYPE E	112+41.75,	112+94.87,	L	53'-1½"
BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	112+24.06,	112+50.47,	R	26'-5"
GUARDRAIL, TYPE MGS	112+35.50,	112+41.75,	R	6'-3"
GUARDRAIL REMOVED	112+24.06,	112+55.31,	R	31'-3"
ANCHOR ASSEMBLY REMOVED, TYPE A	112+55.31,	112+80.31,	R	25'-0"
ANCHOR ASSEMBLY, MGS TYPE E	112+56.72,	113+08.84,	R	53'-1½"



ESTIMATED QUANTITIES - STRUCTURE No.: CLI-133-0211 (01/STR FUNDING SPLIT)									
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	LUMP	LUMP	LUMP		
202	22900	140	SY	APPROACH SLAB REMOVED				140	
503	11101	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LUMP	
503	21300	LS	LS	UNCLASSIFIED EXCAVATION				LUMP	
505	11100	LS	LS	PILE DRIVING EQUIPMENT MOBILIZATION	LUMP	LUMP			
507	00602	560	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN WITH QC/QA	80	480			
507	00650	630	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	90	540			
507	93300	14	EACH	STEEL POINTS OR SHOES	2	12			
523	20000	4	EACH	DYNAMIC LOAD TESTING	2	2			
509	26000	35628	LB	GALVANIZED STEEL REINFORCEMENT	4453	3248	27927		
510	10001	264	EACH	DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT, AS PER PLAN	264				
511	33313	142	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN		32	110		
511	45712	18	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT	18				
512	10100	127	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	32	68	27		
512	33000	14	SY	TYPE 2 WATERPROOFING	14				
514	00050	541	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	15	526			
514	00056	541	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	15	526			
514	00060	449	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, INTERMEDIATE COAT		449			
514	00066	449	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, FINISH COAT		449			
516	13200	172	SF	½" PREFORMED EXPANSION JOINT FILLER	172				
516	13600	108	SF	1" PREFORMED EXPANSION JOINT FILLER	108				
516	14014	84	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	84				
517	70100	126.13	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			126.13		
518	21200	55	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	55				
SPECIAL	51822300	139	FT	STEEL DRIP STRIP			139		
518	40000	124	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	124				
518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100				
526	25001	186	SY	REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN				186	
526	90011	80	FT	TYPE A INSTALLATION, AS PER PLAN				80	
846	00110	23.74	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM				23.74	

STRUCTURE ESTIMATED QUANTITIES
BRIDGE No.: CLI-133-0211
OVER WHITAKERS RUN

SFN
1402641

DESIGN AGENCY

DESIGNER
GTF

CHECKER
BCP

REVIEWER
CAH 11/07/25

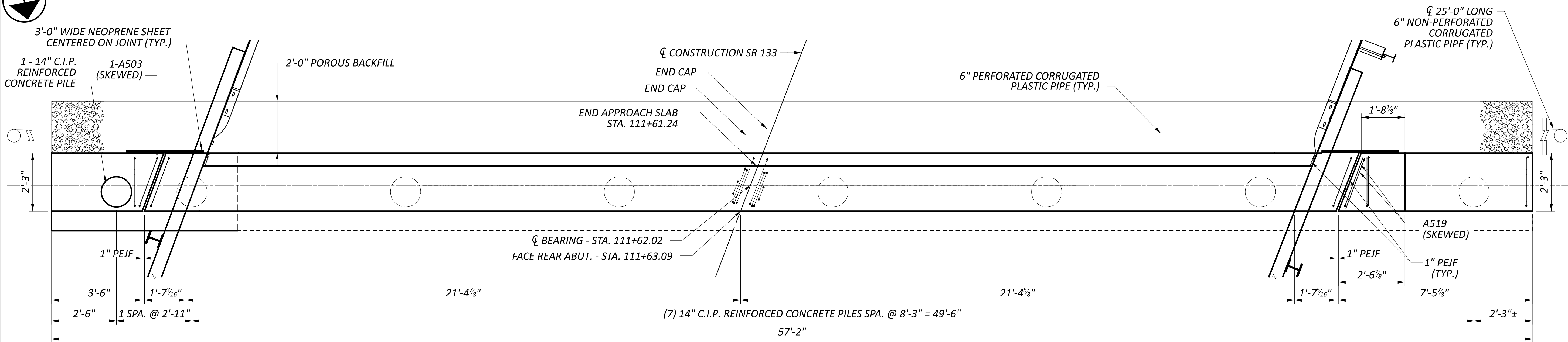
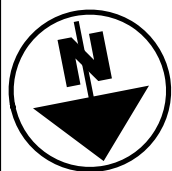
PROJECT ID
102750

SUBSET
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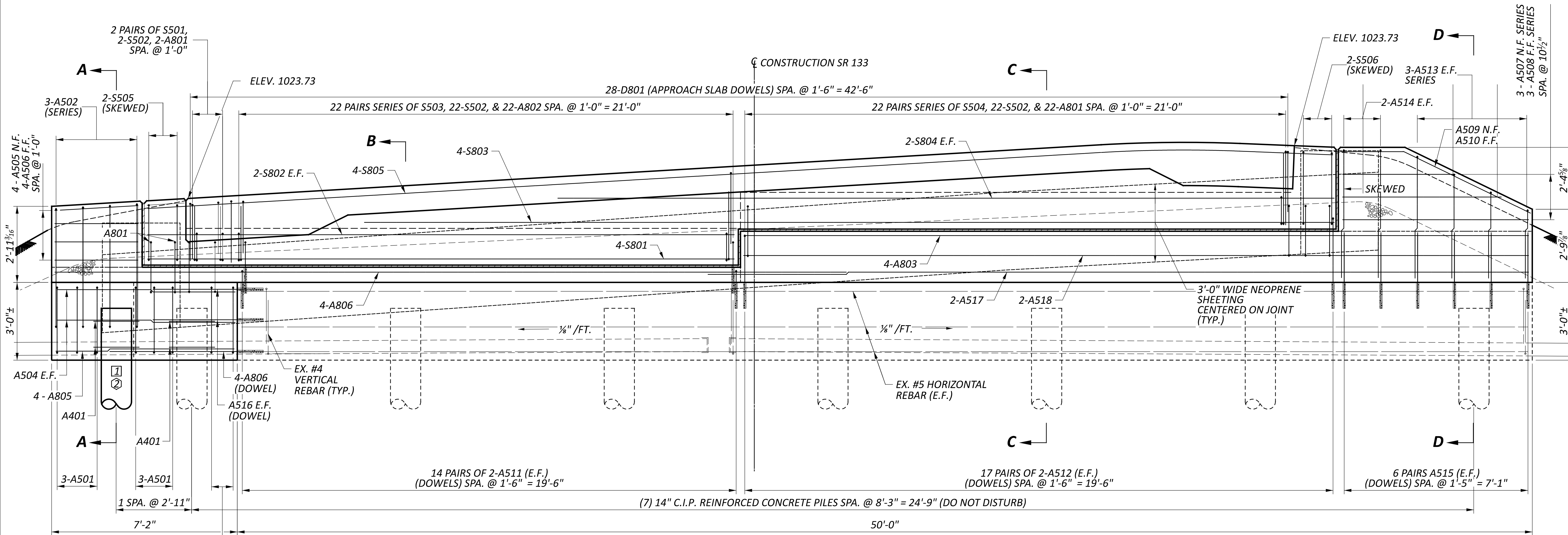
TOTAL
15

SHEET
20

TOTAL
31



REAR ABUTMENT PLAN
 (FORWARD ABUTMENT SIMILAR, BUT OPPOSITE)



REAR ABUTMENT ELEVATION
 (FORWARD ABUTMENT SIMILAR, BUT OPPOSITE)

LEGEND

- # - PILE NUMBER (REAR ABUTMENT)
- # - PILE NUMBER (FORWARD ABUTMENT)
- N.S. - NEAR SIDE
- F.S. - FAR SIDE
- E.F. - EACH FACE
- P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
- PROPOSED GROUND LINE

NOTES:

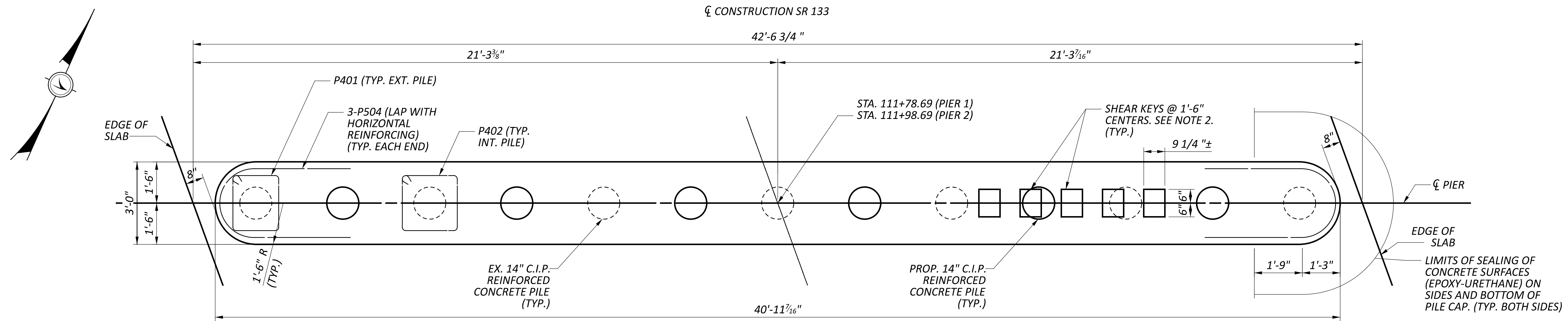
1. 3'-0" WIDE NEOPRENE SHEETING OR TYPE 2 WATERPROOFING PLACED AS SHOWN IN THE PLANS.
2. SEAL EXPOSED SURFACES OF ABUTMENT, WINGWALLS WITH EPOXY URETHANE SEALER, FEDERAL COLOR 17778.
3. SEE STD-DWG CPA-1-08, FOR DETAILS NOT SHOWN.
4. DRILL DOWEL HOLES, 12" MINIMUM REBAR EMBEDMENT USING NON-SHRINK, NON-METALLIC GROUT, AS PER CMS 510.03.
5. APPLY TYPE 2 WATERPROOFING TO ALL CONSTRUCTION JOINTS BEYOND LIMITS OF NEOPRENE SHEETING

REAR ABUTMENT CONSTRUCTION DETAILS
 BRIDGE No.: CL1-133-0211
 OVER WHITAKERS RUN

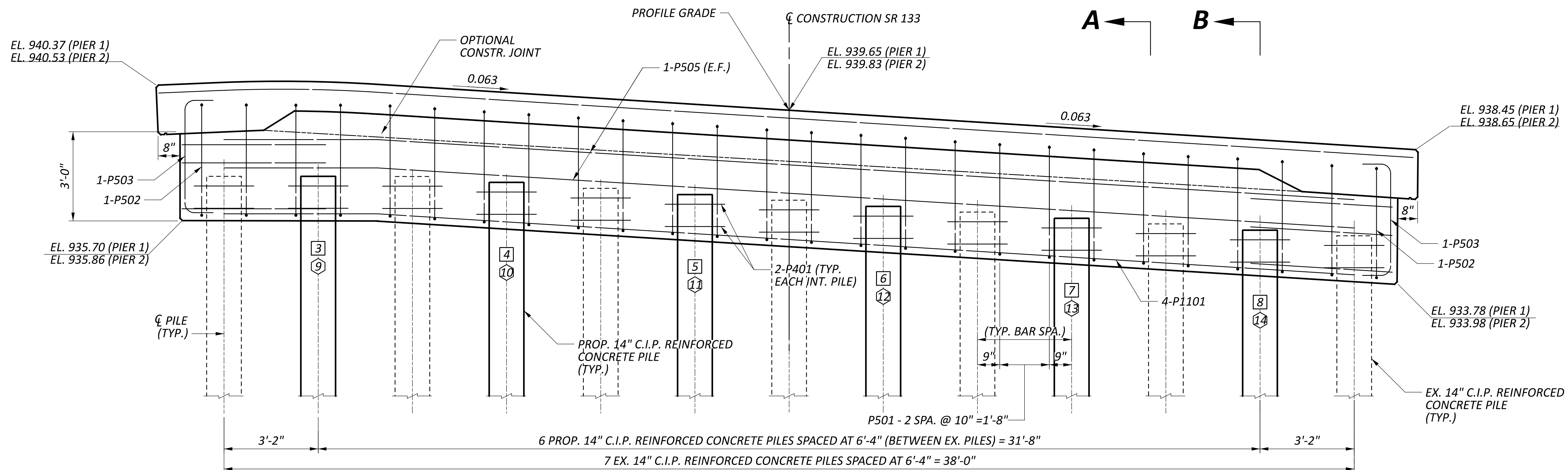
SFN
 1402641
 DESIGN AGENCY



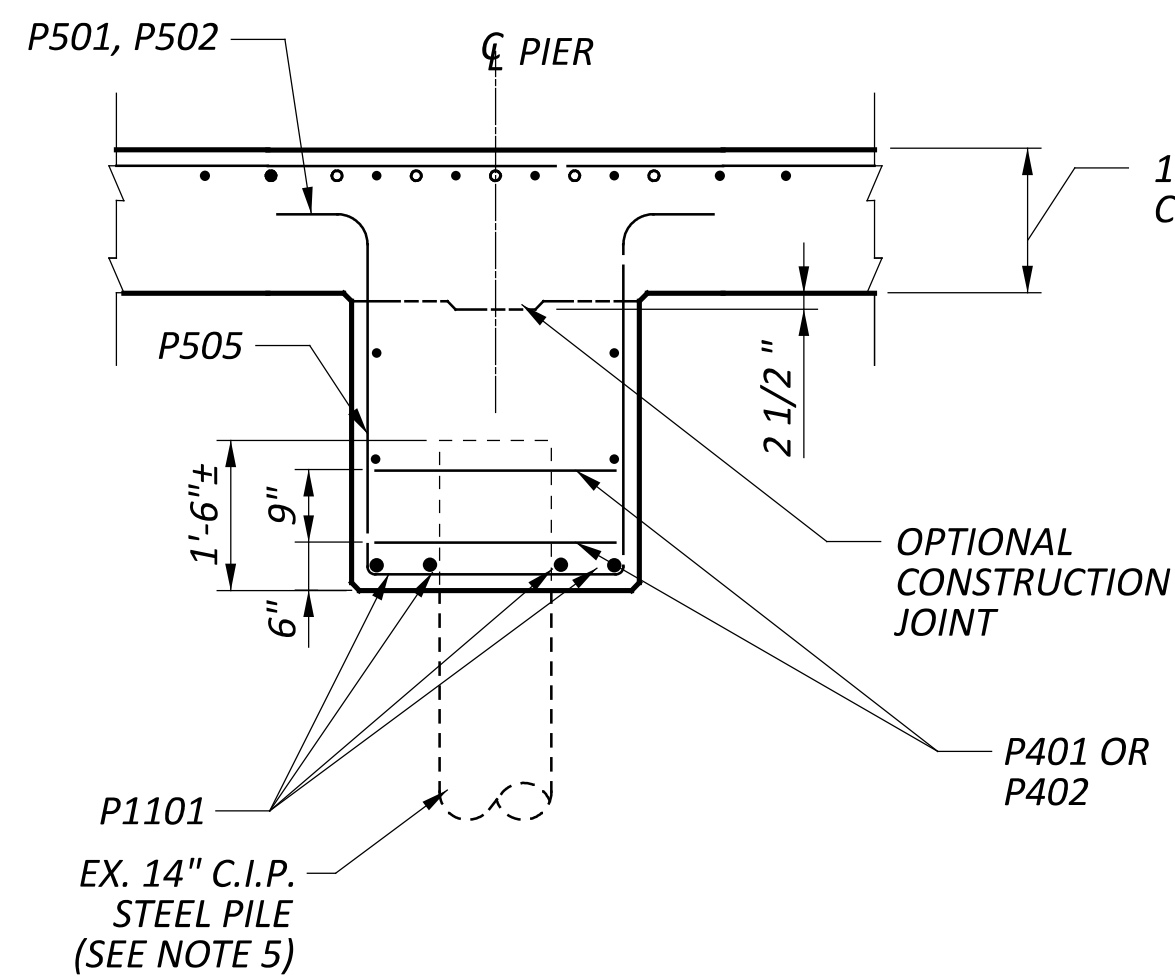
DESIGNER	CHECKER
GTF	BCP
REVIEWER	
CAH 11/07/25	
PROJECT ID	
102750	
SUBSET	TOTAL
7	15
SHEET	TOTAL
24	31



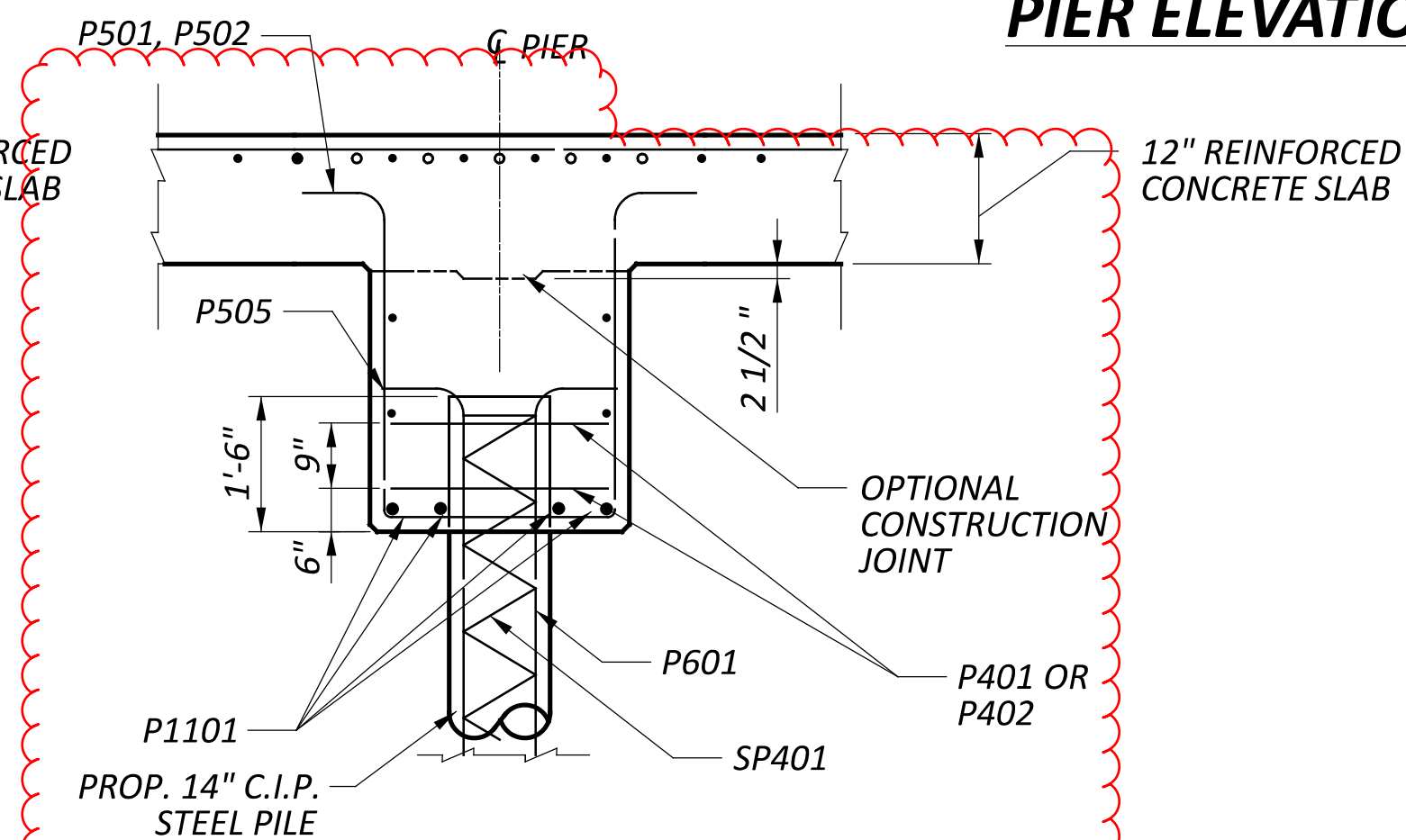
PIER CAP PLAN



PIER ELEVATION



SECTION A-A



SECTION B-B

LEGEND

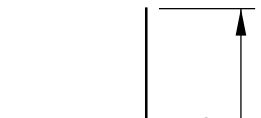
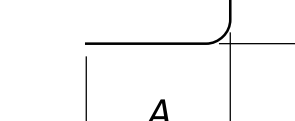
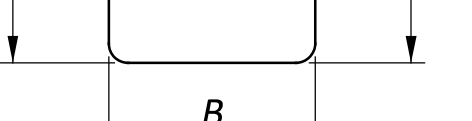
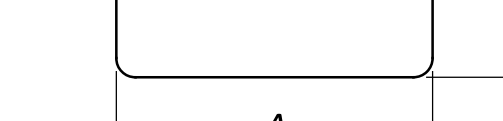
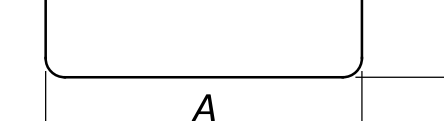
#	- PILE NUMBER (PIER 1)
⊕	- PILE NUMBER (PIER 2)
N.S.	- NEAR SIDE
F.S.	- FAR SIDE
E.F.	- EACH FACE

NOTES:

- FOR REINFORCING STEEL LIST, SEE SHEET 30. SP401 BARS AND P601 BARS ARE TO BE INCLUDED IN ITEM 507, 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED FOR PAYMENT.
- SHEAR KEYS MAY BE ELIMINATED IF BRIDGE SLAB AND PIER CAP ARE POURED SIMULTANEOUSLY. SHEAR KEYS MAY BE FORMED WITH 12" LENGTHS OF 3" X 10" PLANK.
- THE PIER CAP SHALL NOT BE USED TO SUPPORT FALSEWORK FOR THE DECK SLAB.
- REMOVE PORTION OF EXISTING PILE ENCASEMENT AS NEEDED TO ERECT PILE CAP AND DECK SLAB FORMS.
- PREPARE SURFACE AND APPLY ORGANIC ZINC PRIMER TO TOP OF PILES PRIOR TO CONSTRUCTION OF THE PIER CAP. PREPARE SURFACE AND FIELD APPLY OZEU THREE COAT PAINT SYSTEM TO THE NEW PILING. THE FIELD PAINTING SHALL EXTEND AT LEAST 2 FEET BELOW THE GROUND LINE OR STREAM BED.

CU SR 133 2.11

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	PIER 1	PIER 2	TOTAL				A	B	C	D	E	R	INC
PIERS													
P401	2	2	4	7'-9"	21	3	1'-8"	2'-0"					
P402	13	13	26	8'-5"	146	3	2'-0"	2'-0"					
P501	36	36	72	11'-9"	882	6	2'-8"	4'-0"	0'-10"				
P502	2	2	4	10'-10"	45	6	1'-9"	4'-0"	0'-10"				
P503	2	2	4	5'-5"	23	2	0'-10"	4'-0"	0'-10"				
P504	6	6	12	10'-9"	135	24	2'-6"	3'-5"				1'-2 ½"	
P505	4	4	8	39'-3"	328	19	32'-8 ¼"	6'-6 ½"	0'-5"				
P1101	4	4	8	39'-3"	1668	19	32'-8 ¼"	6'-6 ½"	0'-5"				
				SUB-TOTAL	3,248								
C.I.P. REINFORCED CONCRETE PILES (FOR REFERENCE ONLY)													
SP401	6	6	12	83'-11"	673	27	1'-0"	0'-10"	26'-0"				
P601	48	48	96	26'-9"	3857	1	0'-11 ¼"	26'-0"					
				SUB-TOTAL	4,530								

BENDING DIAGRAMS			
 TYPE-1	 TYPE-2	 TYPE-3	 TYPE-6
 TYPE-16	 TYPE-18	 TYPE-24	 TYPE-27

1402641
 DESIGN AGENCY

 DESIGNER GTF
 CHECKER BCP
 REVIEWER
 CAH 11/07/2017
 PROJECT ID
 102750

SUBSET	TOTAL
15	15
SHEET	TOTAL
31	31