M430: BRIDGE PAINTING EQUIPMENT ON SHOULDERS

IF BRIDGE PAINTING EQUIPMENT IS TO REMAIN ON THE SHOULDERS WHEN THE CONTRACTOR IS NOT WORKING, IT SHALL BE PLACED BEHIND PORTABLE CONCRETE BARRIER (PCB) AND A WORK ZONE IMPACT ATTENUATOR (WZIA) SHALL PROTECT THE LEADING BLUNT END OF THE PCB (SEE OMUTCD, FIGURE 6H-5 "SHOULDER CLOSURE ON FREEWAY" (TYPICAL APPLICATION 5)). IF THE CONTRACTOR CHOOSES TO PROTECT PAINTING EQUIPMENT WITH PCB AND A WZIA, THE COST SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM BID FOR MAINTAINING TRAFFIC.

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.

INCREASED BARRIER DELINEATION. AS SPECIFIED HEREIN. SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION. APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626. EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

THE FOLLOWING ITEMS ARE QUANTIFIED IN THE SUBSUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY) ITEM 614, BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL) ITEM 614, OBJECT MARKER, ONE-WAY ITEM 614. OBJECT MARKER. TWO-WAY ITEM 614, INCREASED BARRIER DELINEATION

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

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION. INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

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 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

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 WITH A 25 FOOT OFFSET FROM THE BARRIER REFLECTORS.

THE FOLLOWING ITEMS ARE QUANTIFIED IN THE SUBSUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 2 (ONE-WAY) ITEM 614. OBJECT MARKER. 1-WAY

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

ITEM 630 - REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION, AS PER PLAN IN ADDITION TO THE REQUIREMENTS OF CMS 630. THIS ITEM SHALL INCLUDE THE REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION OF REMOVED SIGN PANEL ON A TEMPORARY GROUND MOUNTED SIGN SUPPORT FOR USE DURING MAINTENANCE OF TRAFFIC WORK. THE TEMPORARY SIGN SUPPORT IS ITEMIZED SEPARATELY.

PAYMENT FOR THIS ITEM SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR REMOVING AND REERECTING EACH OF THE ABOVE ITEMS.

ITEM 630 - SIGNING, MISC.: TEMPORARY GROUND MOUNTED SIGN SUPPORT

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND 630, THIS ITEM SHALL PROVIDE A TEMPORARY SIGN SUPPORT FOR THE FOLLOWING CONDITIONS:

1. TO MOUNT THE REMOVED OVERHEAD EXTRUSHEET SIGN PANEL(S) WHEN THE EXISTING OVERHEAD SIGN SUPPORT IS REMOVED DUE TO CONSTRUCTION ACTIVITIES. ALL EFFORT SHOULD BE MADE TO LOCATE THE TEMPORARY SIGN SUPPORT NEAR THE REMOVED SIGN SUPPORT LOCATIONS.

2. TO MOUNT LEAD-IN SIGNAGE FOR THE CROSS OVERS WHERE NEW GROUND MOUNTED EXTRUSHEET SIGNS ARE PROVIDED. USE PROPOSED SIGN LOCATIONS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL PROVIDE A TEMPORARY SIGN SUPPORT THAT IS SUFFICIENT TO SUPPORT THE REERECTED SIGN(S). THE TEMPORARY SIGN SUPPORT SHALL BE MOVEABLE WHEN CONSTRUCTION ACTIVITIES OR PROJECT COORDINATION FORCE A SIGN RELOCATION.

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL. LABOR. INCIDENTALS AND EQUIPMENT NECESSARY FOR EACH ITEM 630 - SIGNING, MISC.: TEMPORARY GROUND MOUNTED SIGN SUPPORT SPECIFIED IN THE PLANS.

EXISTING ODOT TRAFFIC COUNT STATION

THE CONTRACTOR IS ADVISED THAT AN EXISTING TRAFFIC COUNT STATION IS LOCATED ALONG IR-77 SOUTH OF THE PROJECT LIMITS. THE STATION IS LOCATED APPROXIMATELY 300 FEET NORTH OF THE EVERETT ROAD BRIDGE. THE TRAFFIC COUNT STATION CONSISTS OF DETECTOR LOOPS CUT INTO ALL TRAVEL LANES OF IR-77 AND A CONTROLLER CABINET LOCATED OFF THE SOUTHBOUND OUTSIDE SHOULDER.

THE CONTRACTOR SHALL NOT DISTURB THE TRAFFIC COUNT STATION, INCLUDING BUT NOT LIMITED TO THE PULL BOXES. DETECTOR LOOPS, AND CONTROL CABINET AND SUPPORT, AS PART OF THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.

M442: TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 7 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT. THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$ 3000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

$\frown \frown $	$\bigvee \lor \lor$
>	
>	
>	
>	"M443 TIME LIMITATION, PAVEMENT MARKING REMOVAL"
>	TAVEMENT MANNING NEWOVAL
~	NOTE DELETED
>	
ì	·······································

		MAINTENANC	E OF TRAFFIC LEGEND			
	WZ CENTER LINE, DOUBLE YELLOW		EXISTING SIGN		PORTABLE BARRIER	
N	WZ EDGE LINE, WHITE, 6"	\mathbf{x}			IMPACT ATTENUATOR	
	WZ EDGE LINE, YELLOW, 6"	$\langle X \rangle$	EXISTING SIGN TO BE REMOVED	• • •	DRUMS (SPACING)	
+	WZ CHANNELIZING LINE, 12"	\frown	PROPOSED SIGN			
\cdot	WZ LANE LINE, 6"	\checkmark		(xx)	ITEM, QUANTIFIED	
\leq	WZ DOTTED LINE, 6"		EXISTING SIGN SUPPORT		ITEM, PREVIOUSLY	
\sum	WZ DOTTED LINE, 8"		PROPOSED SIGN SUPPORT			
\sum	WZ TRANSVERSE LINE, YELLOW		WORK ZONE		DIRECTION OF TRAVEL	
	WZ CHEVRON MARKING		TEMPORARY PAVEMENT			
	IMPACT ATTENUATOR		(NEW)			
)	PORTABLE BARRIER		TEMPORARY PAVEMENT (BUILT IN PREVIOUS PHASE)			DE
)	"Y" CONNECTOR	(PMT)	PAVEMENT FOR MAINTAINING			
	WZARROW		TRAFFIC, CLASS A SIGN WORK			
	RAISED PAVEMENT MARKER	S	(QUANTIFIABLE)			DE
	INCREASED BARRIER DELINEATION					
	GUARDRAIL BARRIER REFLECTORS					D PR

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE MILLED SURFACES. AND ASPHALT SURFACE COURSE AND SIDE STREET APPROACHES/DRIVEWAYS GREATER THAN 1.25 INCH. THE CONTRACTOR SHALL PLACE A 12:1 ASPHALT WEDGE FOR ALL **RESULTING ELEVATION DIFFERENCES GREATER THAN 1.25 INCH** PRIOR TO OPENING TO TRAFFIC. THE PAVING OF INTERSECTION APPROACHES AND DRIVEWAYS SHALL BE PERFORMED WITHIN 7 DAYS OF MAINLINE SURFACE COURSE BEING APPLIED AND A DROPOFF BEING CREATED BETWEEN THE NEW SURFACE COURSE AND THE MILLED/EXISTING SIDE ROAD OR DRIVEWAY SURFACE. THE CONTRACTOR MAY ELECT TO PLACE A 12:1 ASPHALT WEDGE IN LIEU OF COMPLETING THE PAVING. HOWEVER THE ASPHALT CONCRETE USED FOR THE WEDGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 – MAINTAINING TRAFFIC AND SHALL INCLUDE THE REMOVAL OF THE WEDGE BEFORE THE INTERSECTION/DRIVEWAY IS PAVED.

ESTIMATED QUANTITIES OF ITEM 614 WORK ZONE PAVEMENT MARKING, MISC.: (BY TYPE) SPRAY THERMOPLASTIC TO BE USED IN ACCORDANCE OF THE REQUIREMENTS OF C&MS 614.11 HAVE BEEN QUANTIFIED IN THE MAINTENANCE OF TRAFFIC SUBSUMMARY.

M444: DROPOFFS

ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: (BY TYPE) SPRAY THERMOPLASTIC

THE CONTRACTOR SHALL PLACE THE WORK ZONE PAVEMENT MARKING, MISC.: (BY TYPE) SPRAY THERMOPLASTIC PER ODOT SPECIFICATION 614.11 AND ODOT SPECIFICATION 648 WITH THE EXCEPTION ODOT SPECIFICATION 648.05 SHALL BE MODIFIED TO ALLOW PLACEMENT OF THE MATERIAL AT A TEMPERATURE OF NOT LESS THAN 35 DEGREES FAHRENHEIT.

THE WORK ZONE PAVEMENT MARKING, MISC.: ARROW, SPRAY THERMOPLASTIC IS A LANE REDUCTION ARROW

S ш NOT MOT

31 927

	T	1						SHEET	NUMBE	≺	1	1	ITEM	ITEM	TOTAL	UNIT	
34	35	36	37	38	39	40	41	42	43	44	45			EXT.			
641 132													254 407	01000 20000	1641 132	SY GAL	PAVEMENT PLANING, ASPHALT CONCRI NON-TRACKING TACK COAT
158													411	10000	158	CY	STABILIZED CRUSHED AGGREGATE
69													442	20001	69	CY	ASPHALT CONCRETE SURFACE COURS
400													614	11110	2400	HOUR	LAW ENFORCEMENT OFFICER WITH PA
	210	429	210	1350	450			600					614	11630	3249	FT	INCREASED BARRIER DELINEATION
	3	13	2	3	3	5	3	3	5	1			614	12380	41	EACH	WORK ZONE IMPACT ATTENUATOR, 24
JMP													614	12420	LUMP		DETOUR SIGNING
34													614 614	12484 12756	34	EACH EACH	WORK ZONE INCREASED PENALTIES S WORK ZONE CROSSOVER LIGHTING S
_																	
52	1308	800	1090	441	471	946	129	678	246	19			614	12801	6180	EACH	WORK ZONE RAISED PAVEMENT MARK
250	86	114	874	438	386	619	121	296	312	31			614 614	13000 13310	250 3277	CY EACH	ASPHALT CONCRETE FOR MAINTAINING BARRIER REFLECTOR, TYPE 1, 1 WAY
	00		074		291	43		230					614	13310	334	EACH	BARRIER REFLECTOR, TYPE 1, BIDIREC
					87	8	59	39	79				614	13312	272	EACH	BARRIER REFLECTOR, TYPE 2, BIDIREC
	86	114	382	58	95	466	13	190	391	31			614	13350	1826	EACH	OBJECT MARKER, ONE WAY
			246	174	378	106	113	88					614	13360	1105	EACH	OBJECT MARKER, TWO WAY
00000													614	18000	300000	EACH	MAINTAINING TRAFFIC, MISC.: SAFETY
0000													614	18000	300000	EACH	MAINTAINING TRAFFIC, MISC.: BRIDGE
144													614	18601	144	SNMT	PORTABLE CHANGEABLE MESSAGE SIG
6.2	8.47	2.25	19.78	5.11	8.46	22.07	5.97	7.25	2.03	0.6			614	98000	88.19	MILE	WORK ZONE PAVEMENT MARKING, MIS
1.21			4.33	0.16		3.82	0.08	0.31	0.17				614	98000	10.08	MILE	WORK ZONE PAVEMENT MARKING, MIS
		0.1											614	98000	0.1	MILE >	WORK ZONE PAVEMENT MARKING, MIS
505	10765	6210	5629	5789	1363	3158	3734	4851	3018	204			614	98100	50226	FT	WORKZONE/RAVEMENT MARKING, MIS
	373	1311	3390	3576	1485	2370	4697	2671	2655	420			614	98100	22948	FT	WORK ZONE PAVEMENT MARKING, MIS
			102					95					614	98100	197	FT	WORK ZONE PAVEMENT MARKING, MIS
								16					614	98100	16	FT	WORK ZONE PAVEMENT MARKING, MIS
				2									614	98200	2	EACH	WORK ZONE PAVEMENT MARKING, MIS
UMP 8280	32821	1043	500	512									615 615	10000 20000	LUMP 63156	SY	ROADS FOR MAINTAINING TRAFFICPAVEMENT FOR MAINTAINING TRAFFIC,
	3250	1372											615	20001	4622	SY	PAVEMENT FOR MAINTAINING TRAFFIC,
95													616	10000	895	MGAL	WATER
.12													618	40600	1.12	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT
			12290	8700	14520	4900	2700	2870					622	41011	45980	FT	PORTABLE BARRIER, 50", AS PER PLAN
					1	1			1	1			622	41050	4	EACH	PORTABLE BARRIER, "Y" CONNECTOR
	4270	5720	19080	2880	4760	23200	590	9060	15600	1540			622	41100	86700	FT	PORTABLE BARRIER, UNANCHORED
				1610									622	80000	1610	FT	GLARE SCREEN
											1116		630	80200	1116	SF	SIGN, GROUND MOUNTED EXTRUSHEE
											18		630	87101	18	EACH	REMOVAL OF OVERHEAD MOUNTED SIG
											21		630	97700	21	EACH	SIGNING, MISC.: TEMPORARY GROUND
48													808	18700	648	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEM
													-				

SUM-77-28.75 MODEL: MS001 PAPERSIZE: 34x22 (in.) DATE: 7/31/2023 TIME: 1:33:07 PM USER: awilsbac

DESCRIPTION		
ETE (1.5" DEPTH)		
SE, 12.5 MM, TYPE A (448), AS PER PLAN, PG70-22M		
TROL CAR FOR ASSISTANCE		
WIDE HAZARDS, (UNIDIRECTIONAL)		
IGN YSTEM		
ER, AS PER PLAN		
G TRAFFIC		
CTIONAL CTIONAL		
REPAIRS DECK AND PAVEMENT PATCHING		
GN, AS PER PLAN	Ĺ	Ĺ
		Į
C.: EDGE LINE, 6", SPRAY THERMOPLASTIC		
C.: CENTER LINE, SPRAY THERMOPLASTIC		$\tilde{\mathbf{D}}$
C.: CHANNELIZING LINE, 12", SPRAY THERMOPLASTIC C.: DOTTED LINE, 6", SPRAY THERMOPLASTIC		INIMINED
C.: GORE MARKING, SPRAY THERMOPLASTIC	C C	0
C.: STOP LINE, SPRAY THERMOPLASTIC		
C.: ARROW, SPRAY THERMOPLASTIC		
, CLASS A		
, CLASS A, AS PER PLAN		
CONCRETE)		
T		
GN AND REERECTION, AS PER PLAN MOUNTED SIGN SUPPORT		
MBLY		
	DESIGN AGE	ENCY
		orporate Exchange 30 2us, OH 43231
	្រុខ្លា	nrporat 0 us, OH
		2500 Co Suite 23 Columbi
		ប័សភ [
		EWER 8-26-22
	PROJECT ID	
	111 SHEET	405 TOTAL
	33	927

JEL: MQ003 \gfnet-pw.be	3 PAPERSIZE: 34, and the second secon	4x22 (in.) DATE: pw-01\Documents\	/2023 cts\67	ME: 1 0/111/	:09 PM U \401-Engi	R: awilsba	Shee	111405_M	Q001.dgn		Р				Р	l P	F	(E				MQ003	
			IA-17 IA-18 DYL-12	IA-16 PB-14	PB-13 ELY-11	ELW-11 DYL-11 IA-15	IA-13 IA-14	PB-11 IA-12 PB-12	IA-11	PB-8 IA-8	PB-7 PMT-7 IA-7		IA-6 ELW-7	CH-7 DL-2	DL-1 PMT-6 IBD-5	PB-6 PMT-5	IA-5 PB-5 IBD-4	CH-6 ELW-6	CH-5 ELY-5 ELY-6	PMT-9 ELW-5	IBD-3 IA-4		REF NO.	
			85 85 85	85 85 85	85 85 85	85 85	85 85 85	85 85 85	84 85	83 83	83 83 83	82	81 81	81 81	81 81 81	81 81	81 81 81	80 80	80 80 80	80 80	79 79		SHEET NO.	
			SR-303 SR-303 SR-303	SR-303 SR-303	SR-303 SR-303 SR-303	SR-303 SR-303	SR-303 SR-303	SR-303 SR-303 SR-303	NO NEW SR-303	IR-77 IR-77	IR-77 IR-77 IR-77	NO NEW	IR-77 IR-77	IR-77 IR-77	IR-77 IR-77 IR-77	IR-77 IR-77	IR-77 IR-77 IR-77	IR-77 IR-77	IR-77 IR-77 IR-77	IR-77 IR-77	IR-77 IR-77		LOCATION	
			157+55 157+90 153+65	155+10 155+10 157+55	154+95 155+00	153+65 153+65 154+95	157+60 158+10	154+90 155+20 155+20	154+90	1049+80 1059+85	1046+50 1048+00 1049+80	4040.50	1017+30 1019+20	1016+31 1016+72	1009+00 1013+12 1015+50	1004+25 1007+38	1001+61 1001+61 1001+81	995+00 995+00	993+50 993+50 995+00	987+50 993+50	960+00 961+70	FROM	STA	
			157+41	157+90	157+55 157+57	158+97 155+00		158+10 157+60		1057+44	1059+85 1058+39	4050.05	1022+20	1017+10 1019+20 1022+50	1016+31 1018+30 1017+10	1017+30 1011+03	1013+76 1003+00	1022+20 1022+20 1015+78	1025+50 1025+50 1022+20	992+50 1021+88	961+50	ТО	TION	
			LT RT CL	RT RT	LT RT	LT CL LT	LT	RT LT LT	RT	RT LT	LT CL RT		LT RT	RT LT	RT LT LT	LT LT	RT RT RT	RT RT	LT LT RT	LT LT	LT LT	-	SIDE	
			1	1		1	1	1	1	1	1		1				1				1	두 EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE AZARDS, (UNIDIRECTIONAL)	614
													15	15 37	27			124 55	146	138		EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (1-WAY WHITE)	614
																			132 111			EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (1-WAY YELLOW)	614
				6	5			6 5		15	27	07				26	24					EACH	BARRIER REFLECTOR, TYPE 1 1 WAY	614
				6	5			6		15	27					26	24					EACH	OBJECT MARKER, ONE WAY	614
															160		119				150	FT	INCREASED BARRIER DELINEATION	614
			0.07			0.03																	DRK ZONE PAVEMENT MARKING, MISC.: CENTER LINE, SPRAY MISC.: CENTER LINE, SPRAY MISC.: CENTER LINE, SPRAY THERMOPLASTIC (DOUBLE YELLOW)	
					C	0.09							0.06					0.4		0.53			WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, 6", SPRAY THERMOPLASTIC (WHITE) WORK ZONE PAVEMENT MARKING,	
).05									291				2732	3187 0.6 0.52			ILE FT	MISC.: EDGE LINE, 6", SPRAY THERMOPLASTIC (YELLOW) WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, 12", SPRAY THERMOPLASTIC	614 614
														576	735							S ≥ FT	WORK ZONE PAVEMENT MARKING MISC.: DOTTED LINE, 6", SPRAY THERMOPLASTIC	614

SUM-77-28.75

	1043	1372	5720		36	927
	1043	1372	5720		SHEET	TOTAL
	10.10				111	405
					PROJECT ID	
						8-26-22
						JVV EWER
	 				DESIGNER	CW
	 			 		250 Suit Colt
						2500 Corporate Exchar Suite 230 Columbus, OH 43231
					GANNE	Corporate Exchange Dr. 230 nbus, OH 43231
						e Excl 4323
					U	hange 1
_						
				 	DESIGN AGE	NCY
			280			
			260			
			260			
			240			
			240			
	 		320	 		
			760			
		1012				
		1372	1340			
			1010			<
					ŀ	_
						ц П
						-
						\geq
	201					Ī
	261					
	372					ב
			1300		5	Ĵ
			1220			
						-
						_
						Ú
					c.	0
	410					
_						
	SY	SY	FT			
	PAVE	PAVE 3AFF	Ц.			
	EME	EME =IC, .	NOK U			
	NT F	NT F CLA	TAB NAN			
	-OR- IC, C	-OR SS A	ICH E			
	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, UNANCHORED			
	VTAII S A	NTAII PER	RIEF ED			
	NIN	NING ? PL/	Ŕ			
	615	615	622			

D		AND		ITEM	ITEM		FUNDING			,			JIVIDER	SHEET NU					
		TAL	ТО	EXT.		05/S>2/04	02/IMS/03	01/IMS/04	654	5 648 650	195	194	187	33	24	22 23	21	20	0C
CLEARING AND GRUBBING		S	L	11000	201			LUMP										LS	
HEADWALL REMOVED	EACH	36		20010	202	1		35				36							
PAVEMENT REMOVED	SY	8572		23000	202			108572							32				8540
CONCRETE BARRIER REMOVED CURB REMOVED	FT FT	135 35		30700 32000	202 202			<u>1135</u> 85					1135						
	FI	55		32000	202			60					85						
PIPE REMOVED, 24" AND UNDER	FT	389		35100	202	199		3190				3389							
PIPE REMOVED, OVER 24"	FT	39		35200	202			539				539							
	FT	391	16	38000	202			16391					16391						
MANHOLE REMOVED CATCH BASIN REMOVED	EACH EACH	3 67	f	58000 58100	202 202	1		66				3	30						
FILL AND PLUG EXISTING CONDUIT FENCE REMOVED	FT FT	681 824		20270000 75000	SPECIAL 202			1681 40824			1681		40824						
REMOVAL MISC.: INSPECTION WELL	EACH	2	40	98100	202			40824					40024				2		
REMOVAL MISC.: CONDUIT	FT	00	2	98200	202			200									200		
EXCAVATION	CY	7215	137	10000	203		45692	91523				631			136584				
EMBANKMENT	CY	600	E	20000	203		18864	37736							56600				
EMBANKMENT, AS PER PLAN	CY CY	25		20000	203		18864	17							00000		25		
EXCAVATION OF SUBGRADE	CY	990		13000	203		1328	2662				+					3990		
GRANULAR MATERIAL, TYPE B	CY	990		30010	204		1328	2662									3990		
GEOTEXTILE FABRIC	SY	970	11	50000	204		3986	7984									11970		
CEMENT	TON	607	60	10500	206		2202	4405				+							607
	SY	3902		11000	206		84633	169269											53902
CEMENT STABILIZED SUBGRADE, 12 INCHES	SY	9497		15010	206		83166	166331											49497
CEMENT STABILIZED SUBGRADE, 14 INCHE	SY	407	44	15020	206		1468	2939											407
TEST ROLLING	HOUR	48	1	20000	206		49	99											48
MIXTURE DESIGN FOR CHEMICALLY STABIL		_S	L	30000	206			LUMP											
LINEAR GRADING, AS PER PLAN	STA	.92		60201	209			292					292						
GUARDRAIL, TYPE MGS	FT	924	25	15050	606			25924					25924						
GUARDRAIL, BARRIER DESIGN, TYPE MGS	FT	00		15550	606			300					300						
ANCHOR ASSEMBLY, MGS TYPE E MASH 20	EACH	37	3	26150	606			37					37						
ANCHOR ASSEMBLY, MGS TYPE T	EACH	27		26550	606			27					27						
MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	EACH	21		35002	606			21					21						
MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	EACH	9		35102	606			9					9						
CABLE BARRIER WITH CONCRETE LINE POS	FT	214	10	60655010	SPECIAL			10214					10214						
CABLE BARRIER, ANCHOR ASSEMBLY	EACH	12		60655150	SPECIAL			12					12						
CABLE BARRIER, POST REFLECTOR	EACH	16	1	60655190	SPECIAL			116					116						
FENCE, TYPE 47	FT	678		15000	607			41678					41678						
GATE, TYPE 47	EACH	63		40500	607			63					63						
CONCRETE BARRIER, TYPE D	FT	13		24000	622			713					713						
CONCRETE BARRIER END SECTION, TYPE [EACH	20		25000	622			20		+ + +		+	20						
CONCRETE BARRIER, END ANCHORAGE, RE	EACH	24		25050	622			24					20			4	2		<u>ر</u>
PROVIDING ELECTRONIC INSTRUMENTATIO		S	L	11000	623			LUMP									3	mm	Ę
RIGHT-OF-WAY MONUMENT, TYPE B	EACH	4		40520	623			4									F	4	
VERTICAL CLEARANCE AS-BUILT CONSTRUCTION RECORD DRAWIN	EACH	6 _S		69098000 69098400	SPECIAL SPECIAL			6 LUMP				+				LS		6	
SURVEY CONTROL VERIFICATION		_S	L	69098400	SPECIAL			LUMP										LS	
ERG												+							
RIPRAP, TYPE D	SY	93		11000	601	6		87				93							
TIED CONCRETE BLOCK MAT WITH TYPE 1 U	SY	93		21050	601			93				68				25			
TIED CONCRETE BLOCK MAT WITH TYPE 2 U	SY	801		21060	601			301					301						
ROCK CHANNEL PROTECTION, TYPE A WITH	CY	78		32004	601			778				778							
ROCK CHANNEL PROTECTION, TYPE B WITH	CY	74		32104	601			74				74							
ROCK CHANNEL PROTECTION, TYPE C WITH	CY	46		32204	601	6		40				46							
SOIL ANALYSIS TEST	EACH	2		00100	659			2								2			
TOPSOIL	CY	935		00300	659			26935				5790				21145			
SEEDING AND MULCHING	SY SV	0487		10000	659 659			190487								190487 9525			
REPAIR SEEDING AND MULCHING	SY	525	95	14000	659			9525				+				9525			
								0505				+	<u> </u>	+	-	9525			
INTER-SEEDING	SY	525	95	15000	659			9525	Į							9525			

SUM-77-28.75

		-
DESCRIPTION	SEE SHEET NO.	
ROADWAY		
ID GRUBBING EMOVED		
EMOVED ARRIER REMOVED /ED		
ED, 24" AND UNDER ED, OVER 24"		
I REMOVED		
IG EXISTING CONDUIT	22	
SC.: INSPECTION WELL	21	
SC.: CONDUIT	21	
Т		
T, AS PER PLAN	21	\succ
OF SUBGRADE IATERIAL, TYPE B		Ŕ
FABRIC		SUMMARY
Τ		SU
BILIZED SUBGRADE, 12 INCHES DEEP		Ļ
BILIZED SUBGRADE, 14 INCHES DEEP G		GENERAL
SIGN FOR CHEMICALLY STABILIZED SOILS DING, AS PER PLAN	22	
TYPE MGS	22	Ċ
BARRIER DESIGN, TYPE MGS		
EMBLY, MGS TYPE E MASH 2016		
EMBLY, MGS TYPE T TERMINAL ASSEMBLY, TYPE 1		
TERMINAL ASSEMBLY, TYPE 2		
IER WITH CONCRETE LINE POST FOUNDATION	23	
IER, ANCHOR ASSEMBLY	23	
IER, POST REFLECTOR	23	
147 17		
ARRIER, TYPE D		
ARRIER END SECTION, TYPE D		
ARRIER, END ANCHORAGE, REINFORCED, TYPE D LECTRONIC INSTRUMENTATION AY MONUMENT, TYPE B		
EARANCE NSTRUCTION RECORD DRAWINGS	20 23	
ITROL VERIFICATION	20	
EROSION CONTROL		DESIGN AGENCY
ETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT		ETT NG Dr.
ETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT IEL PROTECTION, TYPE A WITH GEOTEXTILE FABRIC		EMI EXI 43231
IEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC		FLE FLE ^{oporate} ^{oo} OH 4
IEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC		Column 250 Strifter DESIGNER
		TQD
		REVIEWER DRJ 10/04/22
DING AND MULCHING		PROJECT ID
NG		111405 SHEET TOTAL
		181 927

SHEET NUMBER OC 20 21 22 23 24 33 187 194 195 575 648 650 LS 88.19 10.08 0.1 LS 1.12 USER: TIME: 12:33:50 PM 05\401-Engineering-G DATE: 8/3/2023 ⁻ biects\67490\11140 34x22 (in) SUM-77-28.75 MODEL: 111405_GG001_6_PAPERSI2 pow:\\offinet-pow heartlev.com:offinet-pow-011

654	01/IMS/04	FUNDING 02/IMS/03 05/S>2/04	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
	158		411	10000	158	CY	MAINTENANCE OF TRAFFIC - CONTINUED FROM PREVIOUS PAGE STABILIZED CRUSHED AGGREGATE		
	69		442	20001	69	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448), AS PER PLAN, PG70-22M	30	
	2400		614	11110	2400	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
	3249		614	11630	3249	FT	INCREASED BARRIER DELINEATION		
	41		614	12380	41	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	28	
			614	12420	LS	E A O U		28	
	34		614 614	12484 12756	34	EACH EACH	WORK ZONE INCREASED PENALTIES SIGN WORK ZONE CROSSOVER LIGHTING SYSTEM		
	2			12700		LAON			
	6180		614	12801	6180	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	27	
	250		614	13000	250	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		
	3277		614	13310	3277	EACH	BARRIER REFLECTOR, TYPE 1, 1 WAY		
	334 272		614 614	13310 13312	334 272	EACH EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL		
	212			10012		LAON			
	1826		614	13350	1826	EACH	OBJECT MARKER, ONE WAY		
	1105		614	13360	1105	EACH	OBJECT MARKER, TWO WAY		
	300000		614	18000	300000	EACH	MAINTAINING TRAFFIC, MISC.: SAFETY REPAIRS	32	
	300000 144		614 614	18000 18601	300000 144	EACH SNMT	MAINTAINING TRAFFIC, MISC.: BRIDGE DECK AND PAVEMENT PATCHING PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	32 27	\succeq
						UNIVIT		<u> </u>	A R
	88.19		614	98000	88.19	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, 6", SPRAY THERMOPLASTIC	31	UMMA
	10.08		614	98000	10.08	MILE	WORK ZONE PAVEMENT MARKING, MISC .: LANE LINE, 6" SPRAY THERMOPLASTIC	31	Ĭ
	0.1		614	98000	0.1	MILE	E WORK ZONE PAVEMENT MARKING, MISC.: CENTER LINE, SPRAY THERMOPLASTIC	31	D
	50226		614	98100	50226	FT FT	WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, 12", SPRAY THERMOPLASTIC	31	S
	22948		614	98100	22948	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 6", SPRAY THERMOPLASTIC	31	4L
	197		614	98100	197	FT	WORK ZONE PAVEMENT MARKING, MISC.: GORE MARKING, SPRAY THERMOPLASTIC	31	Ř
	16		614	98100	16	FT	WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, SPRAY THERMOPLASTIC	31	Щ
	2		614	98200	2	EACH	WORK ZONE PAVEMENT MARKING, MISC.: ARROW, SPRAY THERMOPLASTIC	31	GENER
	LUMP		615	10000	LS		ROADS FOR MAINTAINING TRAFFIC		Ü
	63156		615	20000	63156	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A		
	4622		615	20001	4622	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	29	
	895		616	10000	895	MGAL	WATER		
	1.12		618	40600	1.12	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)		
	45980		622	41011	45980	FT	PORTABLE BARRIER, 50", AS PER PLAN	26	
	4		622	41050	4	EACH	PORTABLE BARRIER, "Y" CONNECTOR		
	86700		622	41100	86700	FT	PORTABLE BARRIER, UNANCHORED		
	1610		622	80000	1610	FT	GLARE SCREEN		
	1116		630	80200	1116	SF	SIGN, GROUND MOUNTED EXTRUSHEET		
	18 21		630 630	87101 97700	18 21	EACH EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION, AS PER PLAN SIGNING, MISC.: TEMPORARY GROUND MOUNTED SIGN SUPPORT	31 31	
	648		808	18700	648	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY		
							INCIDENTALS		
			108	10000	LS		CPM PROGRESS SCHEDULE		
	LUMP 42		614 619	11000 16021	LS 42	MNTH	MAINTAINING TRAFFIC FIELD OFFICE, TYPE C, AS PER PLAN	23	
	LUMP		623	10021	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	20	
	LUMP		624	10000	LS		MOBILIZATION		
									DESIGN AGENCY
									GANNETT FLEMING So orporate Exchange Dr. So us, OH 43231
									ED te Ext 1 432
									500 Co blumb
								 	LESIGNER
									REVIEWER
									DRJ 10/04/22
								 	111405
								E	SHEET TOTAL
									186 927

								SUN	1-77-3096 L/R BRIDGE SUMMARY	CALCU RAZ 0		<u>CHEC</u> SAT 05			ATED : D/05/22		ISED : 3 01/05/23
ITEM	ITEM EXT.	TOTAL PE	ER SPLIT	ТОТ	AL PER BR	IDGE	GRAND	UNIT	DESCRIPTION	LI	EFT BRIDO	E	R		GE		SHEET REF
		03/IMS/14	04/IMS/13	LEFT	RIGHT	GEN	TOTAL			ABUT.	PIER	SUPER	ABUT.	PIER	SUPER	GLNLNAL	
202	11203		LS			LS	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN							LS	2
202	22900	488		244	244		488	SY	APPROACH SLAB REMOVED			244			244		
503	21100		372	185	187		372	CY	UNCLASSIFIED EXCAVATION	137	48		136	51			
505	444.00															1.0	
505	11100		LS	 		LS	LS		PILE DRIVING EQUIPMENT MOBILIZATION							LS	
507	00200		2,040	1,030	1,010		2,040	FT	STEEL PILES HP12X53, FURNISHED	690	340		690	320			
507	00250		1,840	930	910		1,840	FT	STEEL PILES HP12X53, DRIVEN	630	300		630	280			
509	10001		66,334	32,875	33,459		66,334	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	4,387	7,998	20,490	4,420	8,189	20,850		3
509	20001		600	300	300		600	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			300			300		3
509	30020		5,826	2,913	2,913		5,826	FT	NO. 4 DEFORMED GFRP REINFORCEMENT			2,913			2,913		3
510	10001		44	22	22		44	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	22			22				2
510																	5
511	34446		123	61	62		123	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			61			62		
511	34451		60	30	30		60	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN			30			30		3
511	42012		39	19	20		39	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		19			20			
511	44112		42	21	21		42	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	21			21				
511	46512		78	39	39		78	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	25	14		25	14			
512	33000		30	15	15		30	SY	TYPE 2 WATERPROOFING	15			15				
SPECIAL	51275500		583	290	293		583	SY	SEALING , SEALING OF CONCRETE SURFACES	27	67	196	25	72	196		
	01210000		000		200		000				01		20		100		
513	10260		87,385	43,635	43,750		87,385	LB	STRUCTURAL STEEL MEMBERS, LEVEL 3			43,635			43,750		
513	20000		996	498	498		996	EACH	WELDED STUD SHEAR CONNECTORS			498			498		
514	00050		1,258	629	629		1,258	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			629			629		
514	00056		1,258	629	629		1,258	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			629			629		
514	00060		6,636	3,312	3,324		6,636	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			3,312			3,324		
514	00066		6,636	3,312	3,324		6,636	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			3,312			3,324		
514 514	00504		4 6		2		4	MNHR EACH	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL FINAL INSPECTION REPAIR			2			2		
514	10000		0		5		0	EACH				5			5		
516	10010	155	59	107	107		214	FT	ARMORLESS PREFORMED JOINT SEAL			107			107		
516	13600		34	17	17		34	SF	1" PREFORMED EXPANSION JOINT FILLER	17			17				
516	13900		185	92	93		185	SF	2" PREFORMED EXPANSION JOINT FILLER	92			93				
516	14020		60	30	30		60	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	30			30				
516	44300		8		4		8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x13"x4.08" BEARING WITH 14"x14" LOAD	4			4				
010					•			2, (011	PLATE AND BEVELED HP10x42 PEDESTAL)	-			•				
516	44300		8	4	4		8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" BEARING WITH 16"x19" LOAD PLATE)		4			4			
				I 					· -··-/								[
518	12201		4	2	2		4	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN			2			2		3
518	21200		45	22	23		45	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	22			23				
518	40000		120	60	60		120	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	60		i	60				L
518	40010		60	30	30		60	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	30			30				
												 					
526	25011	424	180	302	302		604	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN			302			302		40
526	90030	155	59	107	107		214	FT	TYPE C INSTALLATION			107			107		
			\sim	·····		\sim	\sim			\frown	\sim	\sim	\sim				
601	20000	Ç	290	142	148		290	SY	CRUSHED AGGREGATE SLOPE PROTECTION	142			148	3			
			<u> </u>	<u> </u>	μιι	·····	<u> </u>	۲		<u> </u>	····	m					L
625	33000		2	1	1		2	EACH	STRUCTURE GROUNDING SYSTEM	1			1				
				1													

00

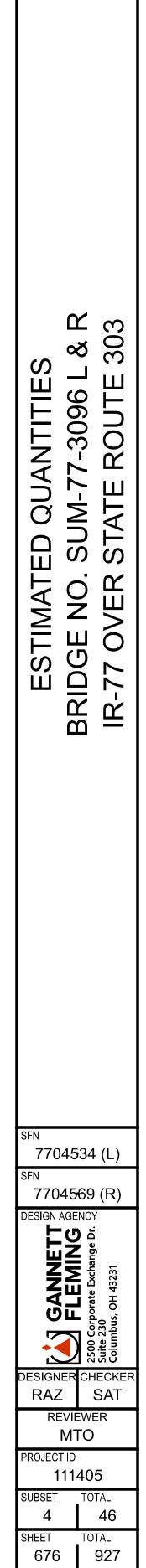
USER: stony

TIME: 10:20:43 AM 1 67490\111405\401-Enc

7/31/2023

DATE:

(iu)



Intel ex TOTAL PER SPLIT TOTAL PER SPLIT </th <th>ABUT.</th> <th></th> <th>SAT</th> <th>05/19/22</th> <th></th> <th>0/05/22</th> <th>SAT/BAB</th> <th>ISED: 3 01/05/23</th>	ABUT.		SAT	05/19/22		0/05/22	SAT/BAB	ISED: 3 01/05/23
Image: Constraint of the state of		LEFT BRI	IDGE	F		GE	GENERAL	SHEET RE
121 22900 471	ADUT.	. PIER	R SUPER	ABUT.	PIER	SUPER	GENERAL	
Image: Second							LS	3
Integration Integration Integration Integration Integration Integration 607 00050 1.140 570 570 1.140 FT 12° CATIA-PLACE REMPORCE CONCRETE PILES. DRIVEN 607 00050 1.280 830 650 1.280 FT 12° CATIA-PLACE REMPORCE CONCRETE PILES. RUNNINGED 607 00050 1.280 480 470 484 FT 12° CATIA-PLACE REMPORCED CONCRETE PILES. RUNNINGED 607 00750 823 480 450 920 FT 18° CATIA-PLACE REMPORCED CONCRETE PILES. RUNNINGED 609 000750 823 480 450 920 FT 18° CATIA-PLACE REMPORCEMENT AS PER PLAN 609 20001 65.752 2.268 33.004 600 18 CONCRETE RUNNORCEMENT FERSING CONCRETE REMENT AS PER PLAN 610 10001 44 22 22 44 EAH DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT AS PER PLAN 611 34446 119 56 60 112 CAT CL			246			245		
577 5000 1.1.0 570 670 1.1.40 FT 12° CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN 597 5050 1.280 839 650 1.280 FT 12° CAST-IN-PLACE REINFORCED CONCRETE PILES, RUNNINED 597 50700 644 420 840 FT 12° CAST-IN-PLACE REINFORCED CONCRETE PILES, RUNNINED 597 50730 963 440 420 920 FT 12° CAST-IN-PLACE REINFORCED CONCRETE REINELS, DRIVEN 597 50730 642 2.81 5.642 FT 12° CAST-IN-PLACE REINFORCEMENT, AS PER PLAN 599 5020 5.642 7.81 FN AGRETE REINFORCEMENT, REPLACEMENT OF EXSTING CONCRETE REINFORCEMENT, AS PER PLAN 510 10001 6.44 2.2 2.4 EACH DOWEL HOLES WITH NONSHRINK, NOMETALLIC GROUT, AS PER PLAN 511 3446 119 50 60 119 CV CLASS GC CONCRETE WITH GCAS ARDDED BECK 511 441 62 CV CLASS GC CONCRETE WITH GCAS ARDDED BECK READH 511 4125	140	49		123	51			
007 0050 1.280 600 630 1.280 FT If "CAST-M-PLACE REINFORCED CONCRETE PLES FURNISHED 007 00700 840 420 420 840 FT IF CAST-M-PLACE REINFORCED CONCRETE PLES FURNISHED 007 00700 840 420 840 FT IF CAST-M-PLACE REINFORCED CONCRETE PLES FURNISHED 007 00700 840 420 840 FT IF CAST-M-PLACE REINFORCED CONCRETE PLES FURNISHED 008 10001 65.72 2.821 5.642 2.821 CONCRETE REINFORCEMENT. ADD CONCRETE REINFORCEMENT 0100 10001 441 22 244 EACH DOWEL HOLES WITH NORSHIRK, MOMETALLIC GROUT, AS PER PLAN 111 34451 78 99 80 79 70 CLASS 022 CONCRETE WITH OCCA BRINGE DECK (PARPET), AS PER PLAN 111 34451 78 99 80 70 CLASS 022 CONCRETE WITH OCCA BRINGE DECK (PARPET), AS PER PLAN 111 34451 78 99 80 70 CLASS 022 CONCRETE WITH OCCA BRINGE DECK CARPARET <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>LS</td> <td></td>							LS	
907 0030 1.200 630 1.200 FT 12 CAST AP-LACE RENORCED CONCRETE PLES, FURNISHED 907 0070 940 440	570			570				
977 0779 840 428 429 430 FT 10* CAST-M-LACE RENFORCED CONCRETE PLES, DRIVEN 977 0779 920 469 490 920 FT 10* CAST-M-LACE RENFORCED CONCRETE PLES, PUNISHED 978 0070 65.762 2.2669 3.094 65.772 LE EPOXY COATED STEEL RENFORCEMENT AS PER PLAN 979 0000 65.762 2.2621 2.261 5.642 FT LE EPOXY COATED STEEL RENFORCEMENT AS PER PLAN 979 30020 5.642 2.821 5.642 FT LE CONCRETE RENFORCEMENT AS PER PLAN 971 10001 44 22 2.2 44 EACH DOWEL HOLES WITH CONSTREMENT AS PER PLAN 971 3445 119 59 60 1119 CY CLASS GC CONCRETE WITH OCON, BRIDGE DECK 9711 34445 119 59 60 393 CY CLASS GC CONCRETE WITH OCON, BRIDGE DECK 9711 4441 42 CY CLASS GC CONCRETE WITH OCON, BRIDGE DECK RUN	630			630				
598 10001 65 772 32,668 33,004 65 772 LB EPOXY COATED STEEL REINFORCEMENT. AS PER PLAN 508 20001 600 300 90 900		420			420			
999 2001 600 900 900 600 800 600 800 <td></td> <td>460</td> <td></td> <td></td> <td>460</td> <td></td> <td></td> <td></td>		460			460			
508 2001 600 500 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
609 30020 5,842 2,821 2,821 2,821 5,642 FT NO. 4 DEFORMED GERP REINFORCEMENT 510 10001 44 22 22 44 EACH DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN 511 34461 119 69 60 119 CY CLASS QC2 CONCRETE WITH QCA, SRIDGE DECK 511 34451 58 79 23 58 CY CLASS QC2 CONCRETE WITH QCA, SRIDGE DECK 511 34451 58 12 14 42 CY CLASS QC1 CONCRETE WITH QCA, READVE FOOTINGS 511 44112 42 21 12 42 CY CLASS QC1 CONCRETE WITH QCA, READVE FOOTING 512 3000 30 15 15 20 57 172 245 567 57 22 25 567 57 320 57 1792 2 WATERPROFING 513 10200 83.666 41,755 41.911 83.666 LB STRUCTURAL STEEL MEMBERS, LEVEL 3 557 57 </td <td>4,428</td> <td>7,968</td> <td>8 20,272</td> <td>4,459</td> <td>8,197</td> <td>20,438</td> <td></td> <td>4</td>	4,428	7,968	8 20,272	4,459	8,197	20,438		4
Image: State in the s	PLAN		300			300		4
Ind Ind <thind< th=""></thind<>			2,821			2,821		
11 34451 58 29 29 98 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 44112 42 21 21 42 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 44112 42 21 21 42 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 44112 42 21 21 42 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 44112 42 21 21 42 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 41612 82 41 41 82 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 512 33000 507 282 285 567 SY SEALING SEALING OF CONCRETE SURFACES 513 10260 83,666 41,755 41,911 83,666 LB STRUCTURAL STELL STRUCTURAL STELL STRUCTURAL STELL STRUCTURAL STELL STRUCTURAL STELL PRINE COAT 514	22			22				4
11 34451 58 29 29 98 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 44112 42 21 21 42 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 44112 42 21 21 42 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 44112 42 21 21 42 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 44112 42 21 21 42 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 511 41612 82 41 41 82 CY QLASS QC CONCRETE WITH QC/QA, BRIDE DECK (PARAPET), AS PER PLAN 512 33000 507 282 285 567 SY SEALING SEALING OF CONCRETE SURFACES 513 10260 83,666 41,755 41,911 83,666 LB STRUCTURAL STELL STRUCTURAL STELL STRUCTURAL STELL STRUCTURAL STELL STRUCTURAL STELL PRINE COAT 514			59			60		
11 42012 39 19 20 39 CY CLASS OCI CONCRETE WITH QC/A, PIER ABOVE FOOTINGS 511 44112 42 21 21 42 CY CLASS OCI CONCRETE WITH QC/A, PIER ABOVE FOOTINGS 511 4512 82 41 41 62 CY CLASS OCI CONCRETE WITH QC/A, PIER ABOVE FOOTING 512 33000 30 15 15 30 SY TYPE 2 WATERPROFING 512 33000 567 282 285 567 SY SEALING, SEALING OF CONCRETE SURFACES 513 10260 83,666 41,755 41,911 83,666 LB STUCTURAL STEEL MEMBERS, LEVEL 3 513 20000 980 480 980 EACH WEIDED STUD SHEAR CONNECTORS 514 00056 1,094 547 547 1,094 SF FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT 514 00056 5,837 2,911 2,926 5,837 SF FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT <td< td=""><td></td><td></td><td>29</td><td>1</td><td></td><td>29</td><td></td><td>4</td></td<>			29	1		29		4
511 46512 82 41 41 82 6Y CLASS OCI CONCRETE WITH QC/QA, FOOTING 512 3300 300 15 15 30 SY TYPE 2 WATERPROOFING SPECIAL 1 10 10 15 15 30 SY SEALING, SEALING OF CONCRETE SURFACES SPECIAL 1 10260 83.666 41.755 41.911 83.666 LB STRUCTURAL STEEL MEMBERS, LEVEL 3 513 0260 960 480 480 960 EACH WELDED STUD SHEAR CONNECTORS 514 00050 1.094 547 547 1.094 SF SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, PRIME COAT 514 00066 5.837 2.911 2.926 5.837 SF FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT 514 00066 5.837 2.911 2.926 5.837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00066 5.837 2.911 2.926 5.837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00066 5.837		19		1	20			
512 33000 30 15 15 30 SY TYPE 2 WATERPROFING 512 33000 667 282 285 567 SY SEALING, SEALING OF CONCRETE SURFACES 513 10260 83.666 41.755 41.911 83.666 LB STRUCTURAL STEEL MEMBERS, LEVEL 3 513 10260 83.666 41.755 41.911 83.666 LB STRUCTURAL STEEL MEMBERS, LEVEL 3 513 20000 9960 480 990 EACH WELDED STUD SHEAR CONNECTORS 514 00050 1.094 547 547 1.094 SF PIELD PAINTING STRUCTURAL STEEL, PRIME COAT 514 00056 5.837 2.911 2.926 5.837 SF FIELD PAINTING STRUCTURAL STEEL, INSHE COAT 514 00050 4 2 2 4 MNHR GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL 514 00050 6 3 3 6 EACH FIELD PAINTING STRUCTURAL STEEL FIELD PAINTING STRUCTURAL STEEL F	21			21				
SPECIAL 51275500 567 282 285 567 SY SEALING . SEALING OF CONCRETE SURFACES 513 10260 83,666 41,755 41,911 83,666 LB STRUCTURAL STEEL MEMBERS, LEVEL 3 513 00200 960 480 480 960 EACH WELDED STUD SHEAR CONNECTORS 514 00050 1,094 547 547 1,094 SF FIELD PAINTING OF EXISTING STRUCTURAL STEEL, NEME COAT 514 00056 1,094 547 547 1,094 SF FIELD PAINTING STRUCTURAL STEEL, NEME COAT 514 00056 5,837 2,911 2,926 5,837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00050 5,837 2,911 2,926 5,837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00050 6 3.3 6 EACH FIRLID PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 10000 6 3 3 6 EACH FIRLID PAINTING STRUCTURAL STEEL,	26	15		26	15			
Image: Section of the state of the	15			15				
513 2000 960 480 480 960 EACH WELDED STUD SHEAR CONNECTORS 514 00050 1.094 547 1.094 SF SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL. PAINE COAT STRUCTURAL STEEL. STRUCTURAL STEEL. PAINE COAT STRUCTURAL STEEL. PAINE STRUCTURAL STEEL. PAINE COAT STRUCTURAL STEEL. PAINE COAT STRUCTURAL STEEL. PAINE STRUCTURAL STEEL. PAINE STRUCTURAL STEEL. PAINE COAT STRUCTURAL STEEL. PAINE STRUCTURAL STEEL. PAINE STRUCTURAL STEEL. PAINE STRUCTURAL STEEL. PAINE STRUCTURAL STEEL. FAINE STRUCTURAL STEEL. STRUCTURAL STEEL. FAINE STRUCTURAL STEEL. STRUCTURAL STEEL. STRUCTURAL STEEL.	26	67	189	28	68	189		
513 20000 960 480 480 960 EACH WELDED STUD SHEAR CONNECTORS 514 00050 1.094 547 1.094 SF SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL 514 00050 1.094 547 1.094 SF FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT 514 00060 5.837 2.911 2.926 5.837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 000504 44 2 2 4 MNHR GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			41,755			41,911		
614 00056 1.094 547 547 1.094 SF FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT 514 00060 5.837 2.911 2.926 5.837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00064 5.837 2.911 2.926 5.837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00064 4 2 2 4 MNHR GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL FIELD PAINTING STRUCTURAL STEEL, FINISH COAT 514 00004 4 2 2 4 MNHR GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL STRUCTURAL STEEL 514 10000 6 3 3 6 EACH FINAL INSPECTION REPAIR 516 10010 152 68 110 110 220 FT ARMORLESS PREFORMED JOINT SEAL 516 10000 192 96 96 192 SF 2" PREFORMED EXPANSION JOINT FILLER 516 14300 8 4 4 8 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRE			41,755	1		41,911		
514 00066 1,094 547 547 1,094 SF FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT 514 00060 5,837 2,911 2,926 5,837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00066 5,837 2,911 2,926 5,837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00060 6 3 3 6 EACH FIELD PAINTING STRUCTURAL STEEL, FINISH COAT 514 00000 6 3 3 6 EACH FINAL INSPECTION REPAIR 516 10010 152 68 110 110 220 FT ARMORLESS PREFORMED JOINT SEAL 516 10010 152 68 110 110 220 FT ARMORLESS PREFORMED JOINT SEAL 516 13000 192 96 96 192 SF 2" PREFORMED EXPANSION JOINT FILLER 516 14020 60 30 30 60 FT SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 516 14300 8 4 4 8 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
614 00060 5,837 2,911 2,926 5,837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00066 5,837 2,911 2,926 5,837 SF FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT 514 00064 4 2 2 4 MNHR GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL 514 0006 6 3 3 6 EACH FINAL INSPECTION REPAIR 516 10010 152 68 110 110 220 FT ARMORLESS PREFORMED JOINT SEAL 516 13600 34 17 17 34 SF 1" PREFORMED EXPANSION JOINT FILLER 516 13800 192 96 96 192 SF 2" PREFORMED EXPANSION JOINT FILLER 516 14020 60 30 30 60 FT SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 516 44300 8 4 4 8 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOP			547			547		
514 00066 5,837 2,911 2,926 5,837 SF FIELD PAINTING STRUCTURAL STEEL, FINISH COAT 514 00504 4 2 2 4 MNHR GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL 514 10000 6 3 3 6 EACH FINAL INSPECTION REPAIR 516 10010 152 68 110 110 220 FT ARMORLESS PREFORMED JOINT SEAL 516 13600 34 17 17 34 SF 1" PREFORMED EXPANSION JOINT FILLER 516 13800 192 96 96 192 SF 2" PREFORMED EXPANSION JOINT FILLER 516 14020 60 30 30 60 FT SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 516 14020 60 30 30 60 FT SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 516 44300 8 4 4 8 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x13"x4.08" E 516 44300 8 4 8 EACH			547	-		547		
514 00504 4 2 2 4 MNR GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL 514 10000 6 3 3 6 EACH FINAL INSPECTION REPAIR 516 10010 152 68 110 110 220 FT ARMORLESS PREFORMED JOINT SEAL 516 13600 34 17 17 34 SF 1" PREFORMED EXPANSION JOINT FILLER 516 13600 34 17 17 34 SF 2" PREFORMED EXPANSION JOINT FILLER 516 13600 192 96 96 192 SF 2" PREFORMED EXPANSION JOINT FILLER 516 14020 60 30 30 60 FT SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 516 144300 8 4 4 8 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x13"x4.08" E 516 44300 8 4 4 8 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E 518 12201 4 2 2			2,911			2,926 2,926		
514 10000 6 3 3 6 EACH FINAL INSPECTION REPAIR 516 10010 152 68 110 110 220 FT ARMORLESS PREFORMED JOINT SEAL 516 13600 34 17 17 34 SF 1" PREFORMED EXPANSION JOINT FILLER 516 13900 192 96 96 192 SF 2" PREFORMED EXPANSION JOINT FILLER 516 14020 60 30 30 60 FT SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 516 14020 60 30 30 60 FT SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 516 14020 60 30 30 60 FT SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL 516 44300 8 4 4 8 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x13"x4.08" E 516 44300 8 4 4 8 EACH ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E 518 12201 4 2 2 <			2,911			2,920		
Image: State in the s			3	-		3		
5161360034171734SF1" PREFORMED EXPANSION JOINT FILLER516139001929696192SF2" PREFORMED EXPANSION JOINT FILLER5161402060303060FTSEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x13"x4.08" E516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E518122014224EACHSCUPPERS, INCLUDING SUPPORTS, AS PER PLAN5182120045232245CYPOROUS BACKFILL WITH GEOTEXTILE FABRIC518400001206060120FT6" PERFORATED CORRUGATED PLASTIC PIPE								
516139001929696192SF2" PREFORMED EXPANSION JOINT FILLER5161402060303060FTSEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x13"x4.08" E516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E518122014224EACHSCUPPERS, INCLUDING SUPPORTS, AS PER PLAN5182120045232245CYPOROUS BACKFILL WITH GEOTEXTILE FABRIC518400001206060120FT6" PERFORATED CORRUGATED PLASTIC PIPE			110			110		
5161402060303060FTSEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL5164430084488EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x13"x4.08" E AND BEVELED HP10x42 PEDESTAL)516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E AND BEVELED HP10x42 PEDESTAL)516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E AND BEVELED HP10x42 PEDESTAL)518122014224EACH5182120045232245CYPOROUS BACKFILL WITH GEOTEXTILE FABRIC518400001206060120FT6" PERFORATED CORRUGATED PLASTIC PIPE	17			17				
5164430084488EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x13"x4.08" E AND BEVELED HP10x42 PEDESTAL)516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E AND BEVELED HP10x42 PEDESTAL)516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E AND BEVELED HP10x42 PEDESTAL)51812201422455182120045232245CYPOROUS BACKFILL WITH GEOTEXTILE FABRIC518400001206060120FT6" PERFORATED CORRUGATED PLASTIC PIPE	96 30			96 30				
And Beveled HP10x42 PEDESTAL)516443008448EACHELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (15"x18"x4.08" E51612011111111518122014224EACHSCUPPERS, INCLUDING SUPPORTS, AS PER PLAN5182120045232245CYPOROUS BACKFILL WITH GEOTEXTILE FABRIC518400001206060120FT6" PERFORATED CORRUGATED PLASTIC PIPE								
Image: Second					1			
518 21200 45 23 22 45 CY POROUS BACKFILL WITH GEOTEXTILE FABRIC 518 40000 120 60 60 120 FT 6" PERFORATED CORRUGATED PLASTIC PIPE	$\frac{1}{2} = \frac{1}{2} = \frac{1}$							
518 40000 120 60 60 120 FT 6" PERFORATED CORRUGATED PLASTIC PIPE			2			2		4
	23			22				
518 40010 100 50 50 100 FT 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	60			60				
	50			50				
523 20001 8 4 4 8 EACH DYNAMIC LOAD TESTING, AS PER PLAN	2	2		2	2			4
523 20501 8 4 4 8 EACH RESTRIKE, AS PER PLAN	2	2		2	2			4
526 25011 423 182 303 302 605 SY REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN			303	 		302		41
526 90030 152 68 110 110 220 FT TYPE C INSTALLATION			110	İ		110		
601 20000 315 155 160 315 SY CRUSHED AGGREGATE SLOPE PROTECTION	155			160	2			
625 3300 2 1 1 2 EACH STRUCTURE GROUNDING SYSTEM	1		<u> </u>					

00

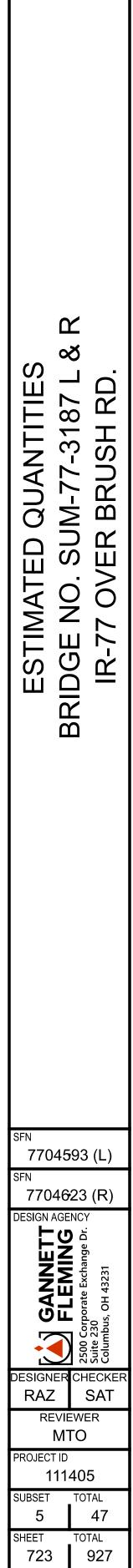
USER: stony

TIME: 10:18:03 AM 1 67490\111405\401-Enc

7/31/2023

DATE:

(in.)



 \forall

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT. A QUANTITY OF 300 POUNDS HAS BEEN INCLUDED TO BE USED AS DIRECTED BY THE ENGINEER. ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING. AS A RESULT OF THIS WORK. ACCORDING TO CMS 709.00. ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT. AS PER PLAN DOWEL HOLES FOR #5 REINFORCING SHALL BE 7/8" DIAMETER AND A MINIMUM OF 12" DEEP. DOWEL HOLES FOR #8 REINFORCING SHALL BE 1.5" DIAMETER AND A MINIMUM OF 18" DEEP. PRIOR TO DRILLING HOLES. LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AIDE OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR. THE DEPARTMENT WILL PAY FOR DOWEL HOLES AND GROUTING WITH ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN. ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN IN ADDITION TO THE BRIDGE DECK PARAPETS, THE DEPARTMENT WILL PAY FOR CONCRETE PARAPETS ON THE APPROACH SLABS WITH ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN. AS PART OF CONSTRUCTING THE BRIDGE PARAPETS. FURNISH AND INSTALL 4" DIAMETER CONDUITS, COUPLINGS, AND FITTINGS, FROM PULL BOX TO PULL BOX AS SHOWN IN THE PLANS. FURNISH AND INSTALL THE CONDUIT, COUPLINGS, AND FITTINGS AS PER CMS 625. THE DEPARTMENT WILL PAY FOR FURNISHING AND INSTALLING THE 4" DIAMETER CONDUITS, COUPLINGS, AND FITTINGS WITH ITEM 511 -CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN. THE DEPARTMENT WILL PAY FOR FURNISHING AND INSTALLING THE PULL BOXES WITH ITEM 625 - PULL BOX IN THE ROADWAY QUANTITIES ITEM 518 - SCUPPERS. INCLUDING SUPPORTS. AS PER PLAN IN ADDITION TO THE REQUIREMENTS OF CMS 518, SCUPPERS SHALL BE NEENAH FOUNDRY MODEL R-4014-C1 HEAVY DUTY SCUPPERS WITH TYPE A BOLTED GRATE OR APPROVED EQUAL. FURNISH AND INSTALL DOWNSPOUTS AND CONNECTIONS AS SHOWN IN THE PLANS AND AS PER CMS 518. INCLUDE THE COST FOR THE DOWNSPOUTS AND CONNECTIONS WITH ITEM 518 - SCUPPERS INCLUDING SUPPORTS. AS PER PLAN.

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF

EXISTING REINFORCING STEEL, AS PER PLAN

PILES DRIVEN TO FULL ESTIMATED LENGTH WITH PILE/SOIL SETUP

THE ULTIMATE BEARING VALUE (UBV) IS 261.4 KIPS FOR THE 12" CIP CONCRETE PILES AT THE ABUTMENTS. PART OF THE UBV WILL BE ACHIEVED THROUGH PILE/SOIL SETUP, WHICH IS A TIME DEPENDENT INCREASE IN RESISTANCE THAT OCCURS IN SOME SOILS.

NOTIFY THE ENGINEER AT LEAST 5 DAYS BEFORE DRIVING PILES SO THAT THE ENGINEER CAN NOTIFY THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION, AND THE OFFICE OF GEOTECHNICAL ENGINEERING.

DRIVE THE FIRST TWO PILES AT EACH SUBSTRUCTURE TO THE FULL ESTIMATED LENGTH LISTED IN THE PILE DESIGN LOADS NOTE ON SHEET 3/34. PERFORM DYNAMIC LOAD TESTING ON BOTH PILES WHILE DRIVING. AFTER DRIVING AND TESTING THE FIRST TWO PILES. DRIVE THE REMAINING PILES AT EACH SUBSTRUCTURE TO THE SAME DEPTH AS THE FIRST TWO PILES. AFTER DRIVING ALL PILES TO THE ESTIMATED LENGTH, CEASE ALL DRIVING OPERATIONS AT EACH SUBSTRUCTURE FOR A PERIOD OF 7 DAYS FOR ABUTMENTS. INCLUDE THE WAITING PERIOD AS A SEPARATE ACTIVITY IN THE PROGRESS SCHEDULE. AFTER THE WAITING PERIOD, PERFORM PILE RESTRIKES ON BOTH OF THE FIRST TWO PILES AT EACH SUBSTRUCTURE (ONE RESTRIKE ITEM).

IF THE REQUIRED UBV IS ACHIEVED AT THE END OF INITIAL DRIVING. USE THE DYNAMIC LOAD TESTING RESULTS TO ESTABLISH DRIVING CRITERIA ACCORDING TO C&MS 507.05 FOR ALL THE REMAINING **PRODUCTION PILES.**

SUBMIT ALL TEST RESULTS TO THE ENGINEER. IF THE RESTRIKE TEST RESULTS INDICATE THAT THE FIRST TWO PILES AT A SUBSTRUCTURE ACHIEVED THE REQUIRED UBV, ALL PILES IN THAT SUBSTRUCTURE MAY BE ACCEPTED BY THE ENGINEER.

IF THE RESTRIKE TEST RESULTS INDICATE THAT EITHER OF THE FIRST TWO PILES AT A SUBSTRUCTURE DID NOT ACHIEVE THE REQUIRED UBV, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE ENGINEER CAN NOTIFY THE DISTRICT GEOTECHNICAL ENGINEER. THE OFFICE OF CONSTRUCTION ADMINISTRATION, AND THE OFFICE OF GEOTECHNICAL ENGINEERING. THE ENGINEER WILL REVIEW THE TEST RESULTS AND ESTABLISH ADDITIONAL RESTRIKE TESTING OR DRIVING CRITERIA FOR THE PILING IN THAT SUBSTRUCTURE WITH THE ASSISTANCE OF THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION. AND THE OFFICE OF GEOTECHNICAL ENGINEERING.

IF DIRECTED BY THE ENGINEER, PERFORM ADDITIONAL RESTRIKE TESTING OR DRIVE ALL PILES AT A SUBSTRUCTURE TO THE ESTABLISHED DRIVING CRITERIA. THE DEPARTMENT WILL PAY FOR SPLICING OF THE PILES BEYOND THE ESTIMATED LENGTH PROVIDED IN THE PLANS UNDER C&MS 109.05 WITH A NEGOTIATED PRICE PER SPLICE.

THIS PLAN NOTE INCLUDES A QUANTITY OF ONE EACH ITEM 523 DYNAMIC LOAD TESTING, AS PER PLAN AND A QUANTITY OF ONE EACH ITEM 523 RESTRIKE. AS PER PLAN PER EACH SUBSTRUCTURE UNIT

STANDARD PLAN DETAILING NOMENCLATURE THROUGHOUT THE PLANS, SECTIONS AND DETAILS ARE REFERENCED TO THEIR CORRESPONDING VIEWS THROUGH THE USE OF STANDARD CALLOUTS. THE VIEWS OF SECTIONS. ELEVATIONS. AND DETAILS WILL HAVE UNIQUE NUMBERS ON THE PAGES ON WHICH THEY ARE SHOWN.

LETTERS WILL BE UTILIZED FOR SECTION AND ELEVATION CALLOUTS. NUMBERS WILL BE UTILIZED FOR DETAIL CALLOUTS.

IF A SECTION, ELEVATION, OR DETAIL VIEW IS ON THE SAME SHEET FROM WHICH IT IS CUT, THE CALLOUT WILL APPEAR AS FOLLOWS:



∖#∡

IF A SECTION, ELEVATION, OR DETAIL VIEW IS ON A DIFFERENT SHEET FROM WHICH IT IS CUT, THE CALLOUT WILL APPEAR AS FOLLOWS:

SECTION, ELEVATION, OR DETAIL IDENTIFICATION A

SHEET WHERE THE CORRESPONDING SECTION, ELEVATION, OR DETAIL CALLOUT OR VIEW CAN BE FOUND

MEMBERS WILL BE IDENTIFIED AS FOLLOWS:

STRUCTURE DESIGNATION "SINGLE LETTER" FOR EXISTING BEAM OR "B" FOR PROPOSED BEAM SINGLE NUMBER (IN A CIRCLE) FOR PROPOSED BEAMS

Tracings: IN-PROGRESS PLOT: 8/1/2023 2:41:23 PM

S

 ∞ \sim

NN

S

SECTION, ELEVATION, OR DETAIL IDENTIFICATION

IDENTIFICATION NUMBER

 $\langle X \# \rangle$

ABUTMENT
AVERAGE DAILY TRAFFIC
AVERAGE DAILY TRUCK TRAFFIC
APPROACH
APPROXIMATE
AVENUE
/// E//OE
BEAM NUMBER (PROPOSED)
BEAM LETTER (EXISTING)
ι ,
BOTTOM FLANGE
BENCHMARK
BOTTOM
BEARING
BETWEEN
CHORD BEARING
CENTER TO CENTER
CATCH BASIN
CLOSED CIRCUIT TELEVISION
CAST IN PLACE
CONSTRUCTION JOINT
OPTIONAL CONSTRUCTION JOINT
CLEAR
CORRUGATED METAL PIPE
CONSTRUCTION MATERIAL SPECIFICATIONS
CONSTRUCTION
COVER PLATE
CORRUGATED STEEL PIPE (NON-PERFORATED)
PERFORATED CORRUGATED STEEL PIPE
DIAMETER
DO NOT DISTURB
DIAPHRAGM
EDGE OF PAVEMENT
EDGE OF SHOULDER
EASTBOUND
EACH FACE
ELECTRIC
ELEVATION
EXISTING
EXPANSION
FACE TO FACE
FORWARD ABUTMENT
FAR FACE/FILL FACE
FIBER OPTIC
FOOTING
FORWARD
GUARDRAIL
HORIZONTAL CURVE
HORIZONTAL
INSIDE TO INSIDE
INTERSTATE ROUTE
JOINT
LEFT
MAXIMUM
MANHOLE
MINIMUM HORIZONTAL CLEARANCE
MINIMUM
MISCELLANEOUS

MVC = MINIMUM VERTICAL CLEARANCE

PERMITS FOR SECTION 401 AND 404 TEMPORARY ACCESS FILLS

THE TEMPORARY ACCESS FILL INFORMATION USED FOR THE PERMIT APPLICATION IS AVAILABLE FOR INFORMATIONAL PURPOSED ONLY AND IS PROVIDED AS PART OF THE DESIGNER CALCULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING THEIR OWN TEMPORARY ACCESS FILL AND THE DESIGN SHOULD CORRESPOND WITH REQUIREMENTS OF SS 832 AND THOSE FOUND IN THE SPECIAL PROVISIONS.

FOR THIS PROJECT, PERMITS FOR SECTION 401 AND 404 OF THE CLEAN WATER ACT, ARE BASED ON THE LIMITS OF TEMPORARY CONSTRUCTION FILL PLACED IN THE WATERS OF THE UNITED STATES AS SHOWN IN THE SPECIAL PROVISIONS. SHOULD THE CONTRACTOR CHOOSE TO DEVIATE FROM THE PROPOSED TAF, THE CONTRACTOR IS REQUIRED TO COORDINATE THE REQUEST FOR THE CAUSEWAY AND ACCESS FILL(S) WITH THE PROJECT ENGINEER AND OES. IF A PERMIT MODIFICATION IS **REQUIRED REFER TO SUPPLEMENT SPECIFICATION 832.06 FOR** APPLICATION REQUIREMENTS AND TIME FRAMES.

CHANNEL DISTURBED DUE TO TEMPORARY CROSSING LENGTH OF CHANNEL DISTURBED = 42.0 FT

STANDARD PLAN ABBREVIATIO	ONS AND SYMBO	DLS				7	
RAFFIC	NB =	= NORTHBO = NORTHEA					
RUCK TRAFFIC	NF =	= NORTHEA = NEAR FAC = NUMBER					
	N.P.C.P.P. =	NON-PERI		RRUGATED PL	ASTIC PIPE		
		= NORTHWE = OUT TO O					
ROPOSED)		= OUTSIDE I = OVERHAN					
(ISTING)	OHWM =	= ORDINARY	Y HIGH WATEP	R MARK			
	• • • •	= OVERHEA = OHIO DEP.	_	TRANSPORTA	TION		
		= POINT OF = POINT OF	VERTICAL INT CURVE	TERSECTION			
	PCB =	PORTABLE	E CONCRETE	BARRIER ATED PLASTI	ר חוחב		
	PEJF =	PREFORM	ED EXPANSIO	ON JOINT FILL			
ER			GRADE LINE INTERSECTIO	DN			
TELEVISION		= POINT OF = POINT ON		RTICAL CLEAF	RANCE		
	PROP =	PROPOSE	Ð				
RUCTION JOINT		= POINT OF = PAVEMEN					
TAL PIPE MATERIAL SPECIFICATIONS		= REAR ABL	ITMENT CED CONCRE	TE DIDE			
INTENAL OF LOFFICATIONS	RDWY =	ROADWAY	/				0F 19 RU
EEL PIPE (NON-PERFORATED)		= REFEREN = REINFORC	CE CING OR REBA	4R			၂ ပ ကု
RRUGATED STEEL PIPE	REQ'D =	= REQUIREL = RIGHT					CE 72
	R/W =	RIGHT OF					HA A
NT		= SERIES OI = STATE RO					
DER	SB =	= SOUTHBO	UND				NOT SU FUR
	SE =	SOUTHEA		TION DRAWIN	G		
		= SERIES = SQUARE F	FFT				VERAL GE NC OVER
	SHLDR =	SHOULDE					
		= SPACES = STREET O	R SPAN TOTA	L			GENEF RIDGE -77 OV
IENT CE		= STATION = STANDARI	ח				GE -7
	STG =	= STAGE					
		= STORM = STRUCTU	RE				
VE		= SOUTHWE = TOP OF	EST				
	T/B =	TOP AND E					
TE		= TOE TO TO = TO BE REI					
		= TEMPORA = TYPICAL	RY				
	U.N.O. =	UNLESS N		RWISE			
NTAL CLEARANCE		= VERTICAL = VERTICAL					
		= WEST BOU = WATER	UND				
AL CLEARANCE	WW =	= WINGWAL	L				
	YR =	= YEAR					
D 404 TEMPORARY ACCESS	SCOUR ELEV	ATIONS					
MATION USED FOR THE PERMIT RMATIONAL PURPOSED ONLY AND IS	THE DESIGN FL PROVIDED BEL		IEUN FLUUD	SUUUK ELEV	ALIONS AKE		
R CALCULATIONS. THE DESIGNING THEIR OWN							
ESIGN SHOULD CORRESPOND WITH		REAR ABUTMENT	PIER NO. 1	PIER NO. 2	FORWARD ABUTMENT		
E FOUND IN THE SPECIAL	DESIGN	N / / A	000.07	000			SFN 7704658 (L)
CTION 401 AND 404 OF THE CLEAN	FLOOD	N/A	968.87	968.77	N/A		7704658 (L) DESIGN AGENCY
S OF TEMPORARY CONSTRUCTION	CHECK	N/A	968.71	968.61	N/A		
<i>JNITED STATES AS SHOWN IN THE ONTRACTOR CHOOSE TO DEVIATE</i>	FLOOD	/ W/ / T	500.71	500.01			14308 35 0m
RACTOR IS REQUIRED TO CAUSEWAY AND ACCESS FILL(S)							N STRE 1, OHIO , 1, 434-191 arcadis.C
ES, IF A PERMIT MODIFICATION ÍS							ARON, (330) - (230) - www.ar
PECIFICATION 832.06 FOR IE FRAMES.							222 SOL
							DESIGNER CHECKER
RARY CROSSING LENGTH OF							RJB CMD
							REVIEWER RBB 01-13-23
							PROJECT ID
							111405
							SUBSET TOTAL
							└─ ──

769 927

202 202 503 503 505 505 507	11203 22900 111 0 0 21100	RECONST. 230	WIDENING LS	TOTAL LS	
202 503 503 505	22900	230			LS
503 505	+ $ +$ $+$ $+$			230	SY
503 505	+ $ +$ $+$ $+$		~1.SV~~	v tsv v	LS
505			140	<u>√ √L0γ ↓</u> 140	
507	11100		LS	LS	LS
	00500		780	780	FT
507	00551		840	840	FT
509	10001		33,438	33,438	
509	20001		300	$\frac{33,430}{\sqrt{300}}$	
509			3238	3238	
509	30020		3238	3238	
510	10001		22	22	EAC
511	34446		72	72	CY
511	34451		33	33	CY
511	42012		31	31	CY
511	44112		30	30	CY
511	46512		31	31	CY
512	33000		8	8	SY
PECIAL	51275500		321	321	SY
513	10260		47770	47770	LB
513	20000		762	762	EAC
514	00050		769	769	SF
514	00056		769	769	SF
514	00060		3223	3223	SF
514	00066		3223	3223	SF
514	00504		1	1	MNH
514	10000		3	3	EAC
516	10010	97	25	122	FT
516	13600		17	17	SF
516	13900		47	47	SF
516	14020		34	34	FT
516	44100		4	4	EAC
516	44101		4	4	EAC
F 40					
518	12201		4	4	EAC
518 518	21200		25 58	25 58	CY FT
518	40000 40010		58 58	58	FI FT
510			<u> </u>	00	
523	20001		2	2	EAC
523	20501		1	1	EAC
524	94946		114	114	FT
526	25011	239	68	307	SY
526	90030	97	25	122	FT
601	20000		478	478	SY
	20000			017	
625	33000		1	1	EAC

Tracings : IN-PROGRESS PLOT: 8/3/2023 1:09:26 PM

04

 \sim \mathbb{Z}

LL ()

 \Box \bigcirc \forall

/ . • .

SUM-77-28.75 MODEL: Sheet PAPERSIZE: 34x22 (in pw:\lafter-pw.bentlev.com:afnet-pw-01)

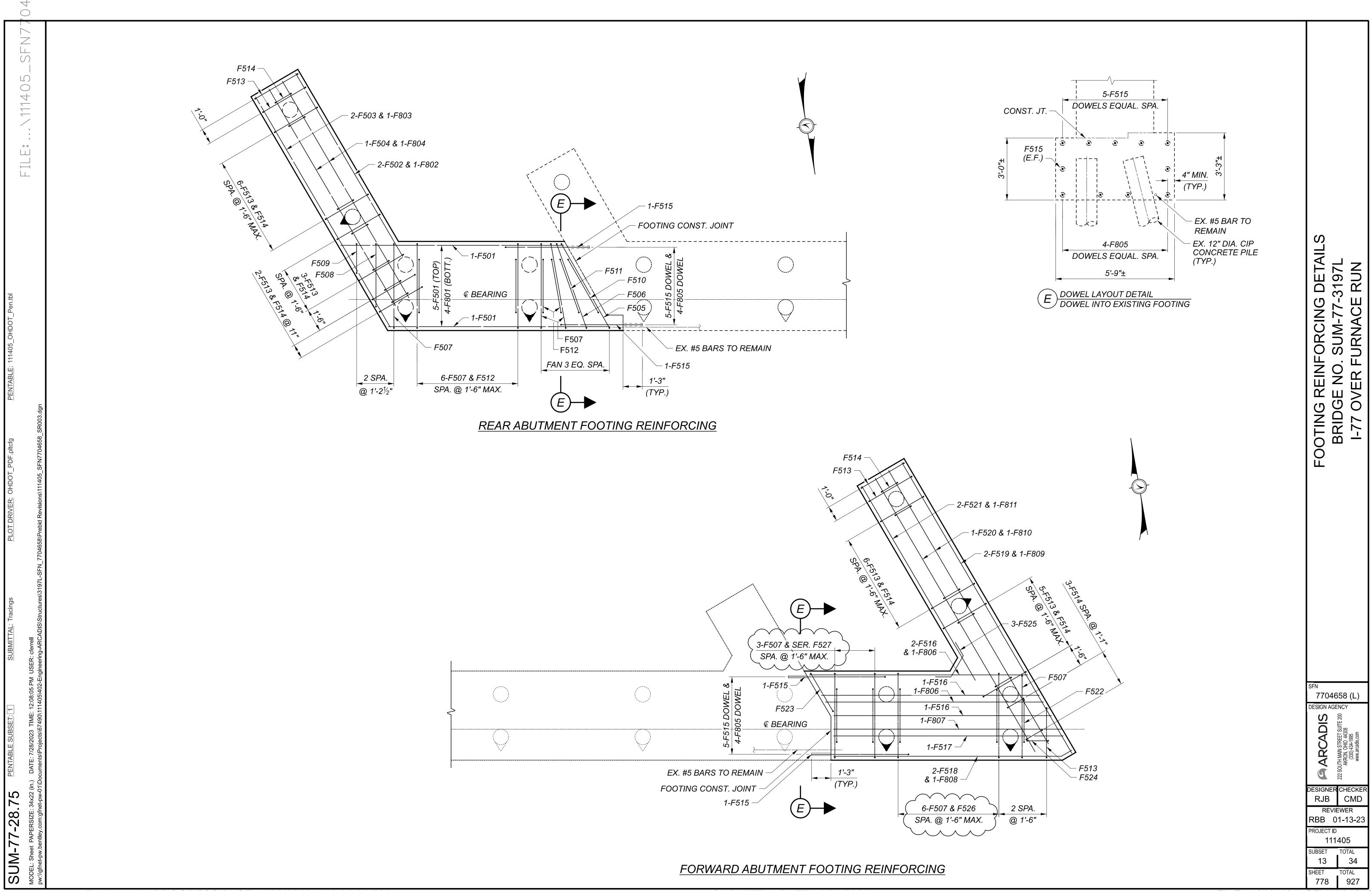
D'

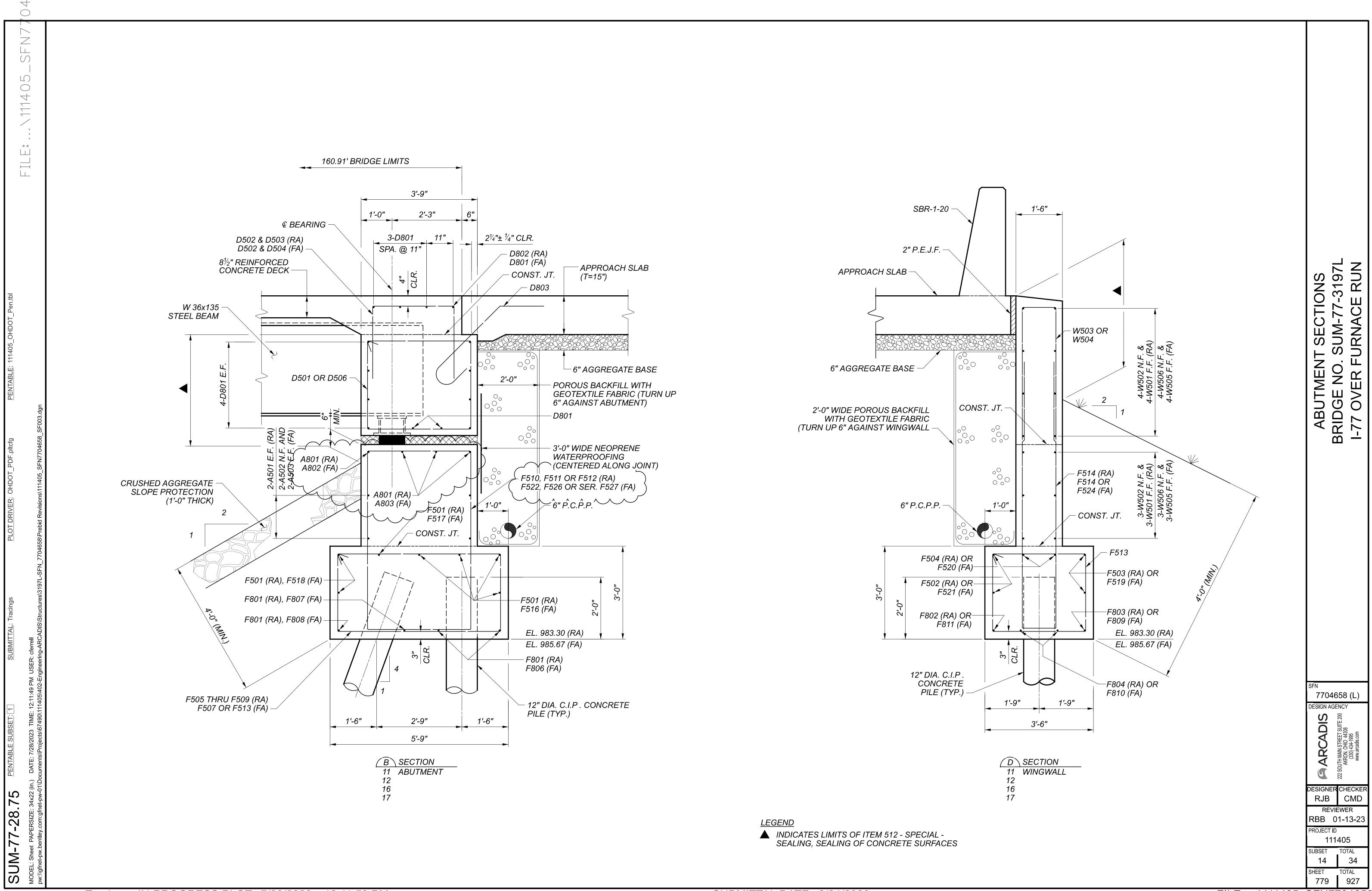
РΜ

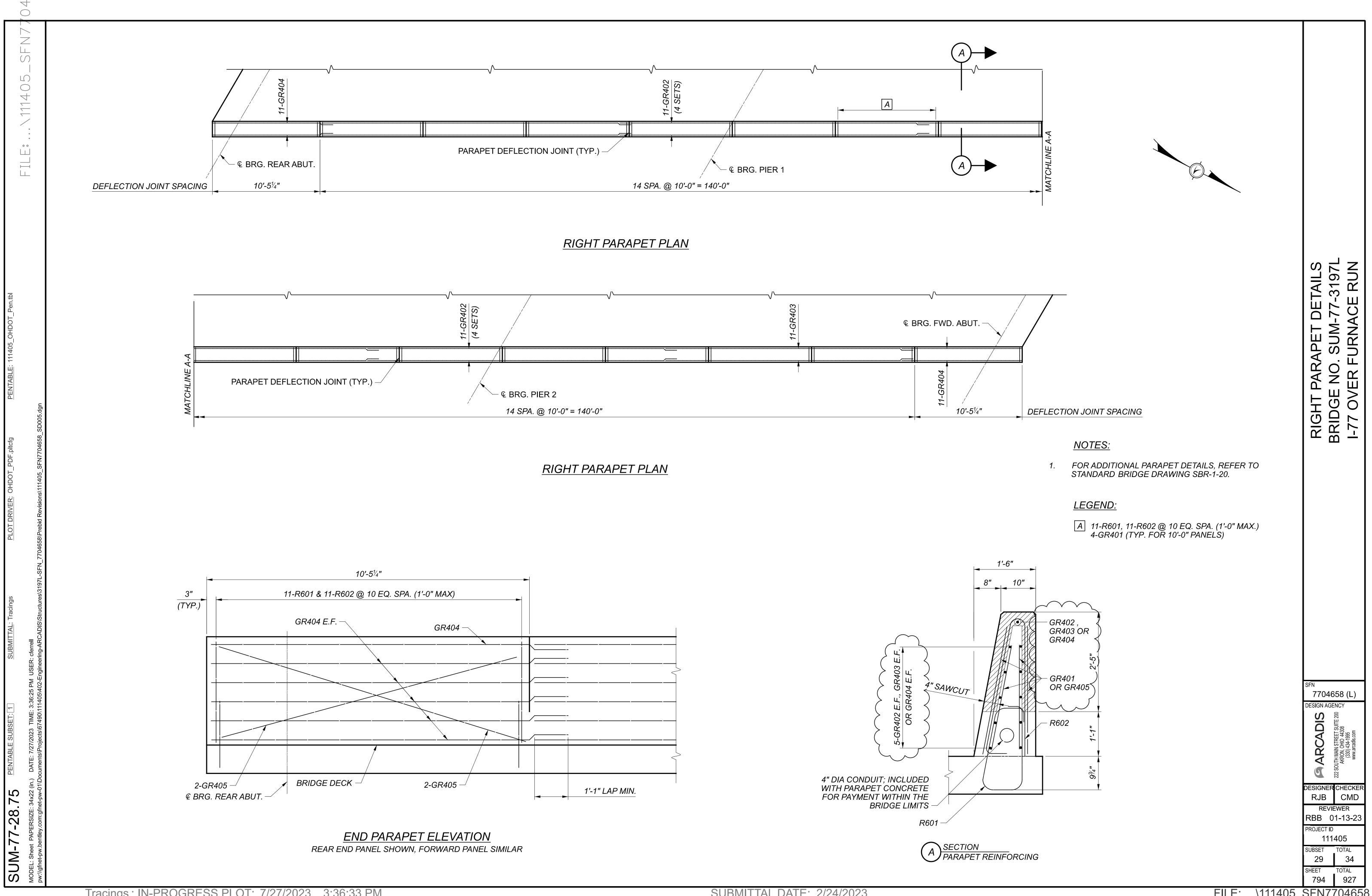
SUM-77-3197L BRIDGE SUMMARY

DESCRIPTION	ABUT.	PIERS
PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN		
APPROACH SLAB REMOVED		
COFFERDAM8 AND EXCAVATION BRACING		\sim
UNCLASSIFIED EXCAVATION	140	
· · · · · · · · · · · · · · · · · · ·		
PILE DRIVING EQUIPMENT MOBILIZATION		
12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	780	
12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	840	
EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	4,248	5,136
CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	7,240	0,100
NO. 4 DEFORMED GFRP REINFORCEMENT		
DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	22	
CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		
CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN		
CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		31
CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING CLASS QC1 CONCRETE WITH QC/QA, FOOTING	30 31	
CLASS QUI CONCRETE WITH QU/QA, FOOTING	51	
TYPE 2 WATERPROOFING	8	
SEALING OF CONCRETE SURFACES	34	74
STRUCTURAL STEEL MEMBERS, LEVEL 3		
WELDED STUD SHEAR CONNECTORS		
SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL		
FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL		
FINAL INSPECTION REPAIR		
ARMORLESS PREFORMED JOINT SEAL		
1" PREFORMED EXPANSION JOINT FILLER		
2" PREFORMED EXPANSION JOINT FILLER	47	
SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	34	
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE)		4
(17"x11"x2.53" BEARING WITH 18"x12" BEVELED LOAD PLATE)		4
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (13"x10"x2.27" BEARING WITH 14"x10" LOAD PLATE AND BEVELED HP10x42 PEDESTAL)	4	
SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN		
POROUS BACKFILL WITH GEOTEXTILE FABRIC	25	
6" PERFORATED CORRUGATED PLASTIC PIPE 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	58 58	
DYNAMIC LOAD TESTING, AS PER PLAN	2	
RESTRIKE, AS PER PLAN		
DRILLED SHAFTS, 72" DIAMETER, ABOVE BEDROCK		114
REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN		
TYPE C INSTALLATION		
CRUSHED AGGREGATE SLOPE PROTECTION	478	
STRUCTURE GROUNDING SYSTEM		
THERMAL INTEGRITY PROFILER (TIP) TEST		2
	<u>. </u>	-

		CALC: EKZ	CHECK: RJB		
		5/21/22	1/10/23		
S	SUPER	GENERAL	APP/REF SHEET NO.		
		LS	3 3		
		230			
\sim			$\frown \frown \frown \frown$		
	\rightarrow	LS		\mathbf{i}	
\checkmark					
		LS			
			4		
	\sim				
; {	23,218	836	4		
	2482	300 756	4		S
	2402	730			TIE 3197
			4		
	72				IMATED QUANTITIES GE NO. SUM-77-3197
	33		4		< 2 2
					<u>ا م</u> کا ا
					ESTIMATE BRIDGE NO
	169	44			
	47770				EST 3RID
	762				
	769				
	769				
	3223				
	3223 1				
	3				
		100			
		122 17			
			19		
	4		4		
	т 		т		
_					^{SFN} 7704658 (L
					DESIGN AGENCY
					JIS IITE 200
			4		ARCADIS 22 SOUTH MAIN STREET SUITE 200 AKRON, OHIO 44308 (330) 434-1995
			4		MAIN ST 800, OHI 330) 434
					ARROADIS 222 SOUTH MAIN STREET SUITE 200 (330) 424-1995 (330) 424-1995
		207	20 04		
		307 122	30 , 31		DESIGNER CHEC RJB CM
					REVIEWER RBB 01-13-
					PROJECT ID
		1			111405 SUBSET TOTAL
					5 34
					SHEET TOTAL
				FILE: \111405	







	MARK	MAT'RL	NUMBER	LENGTH	WEIGHT	TYPE			DII	MENSION	IS		
		TYPE	TOTAL			L L	А	В	С	D	E	R	INC
ľ			\sim	DECK	EPOXY C	OAT	ED STEE		ORCEME	NT - ECS	R)		
Ī	S401	ECSR	(65)	30'-0"	1303	STR	-260						
ſ	S402	ECSR	13	21'-10"	190	STR							
		ECSR	\sim		\sim								
Ī	S501	ECSR	65	30'-0"	2034	STR	-407						
ſ	S502	ECSR	13	27'-3"	370	STR							
	S503	ECSR	48	40'-6"	2028	STR							
	S504	ECSR	6	3'-0"	19	STR							
F			1 SR	4'-1"			3'-6"						
\checkmark	S505	ECSR	OF	ТО	93	16	ТО						0'-9%
		\langle	11	12'-1"			11'-6"						
)	1 SR	3'-6"									
	S506	ECSR	OF	ТО	86	STR							0'-9%
$ \downarrow$	\sim		11	11'-6"									
#[S507	ECSR	337	12'-6"	4394	16	11'-11"						
#	S508	ECSR	337	11'-11"	4189	STR							
	S509	ECSR	343	7'-6"	2683	16	6'-11"						
			1 SR	4'-1"			3'-6"						
	S510	ECSR	OF	ТО	30	16	ТО						0'-9 ¹ / ₂
			5	7'-3"			6'-8"						
			2 SR	2'-4"									
#	S511	ECSR	OF	ТО	142	STR							0'-91⁄4
			11	10'-1"									
	S512	ECSR	16	4'-9"	70	20	1'-0"	1'-0"	2'-0"	1'-0"	1'-0"		
			DECK ECSR	SUBTOTAL	\$ 17,640	<u> </u>							
				PARAPE	T (EPOXY	COA	TED STE	EL REIN	FORCEM	ENT - EC	SR)		
ľ	R601	ECSR	176	7'-5"	1961	39	0'-9½"	1'-3"	2'-3"	0'-7"	1'-0"		
ľ	R602	ECSR	176	7'-0"	1850	23	0'-6"	3'-3"	3'-3"			0'-2"	
ľ			8 SR	4'-4"				3'-6"					
	R603	ECSR	OF	то	628	1	1'-0"	то					0'-1'
			11	5'-2"				4'-4"					
ľ	R604	ECSR	32	4'-4"	208	1	1'-0"	3'-6"					
F			L RAPET ECSR	SUBTOTAI	4,647	1		I		1		1	1

	MAT'RL	NUMBER	BAR	TOTAL	ΡE			DI	MENSION	IS		
MARK	MARK TVDE	TOTAL	LENGTH			А	В	С	D	E	R	INC
	1		PARAPE	T (GLASS	FIBE	R POLYN	HER REIN	 FORCE	H MENT - GI	++ FRP)		<u>+</u>
GR401	GFRP	104	10'-0"	1040	STR					/		<u> </u>
GR402	GFRP	44	30'-0"	1320	STR							
GR403	GFRP	11	24'-0"	264	STR							
GR404	GFRP	22	11'-7"	255	STR							
GR405	GFRP	8	10'-4"	83	STR							
GR406	GFRP	24	5'-1"	122	STR							1
GR407	GFRP	24	6'-5"	154	25	2'-6"	2'-5"	1'-5"	0'-1½"	0'-5"		1
	PAR	APET GFRP	SUBTOTAL	3,238			1	1	1			

REINFORCING NOTES

1. ALL STEEL REINFORCEMENT BARS SHALL BE EPOXY COATED. PAYMENT FOR REINFORCING, INCLUDING MECHANICAL CONNECTORS, SHALL BE MADE WITH ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN.

2. "STR." IN THE TYPE COLUMN INDICATES STRAIGHT BARS.

3. "SER OF" DENOTES SERIES OF BARS, E.G "X" SER OF "Y" = "X" SERIES OF "Y" BARS/SERIES.

4. REFER TO C.M.S SECTION 509.05 FOR STANDARD BEND DIMENSIONS.

5. MECHANICAL CONNECTORS: AN APPROVED TYPE OF MECHANICAL CONNECTOR FOR REINFORCING BARS SHALL BE PROVIDED IN ACCORDANCE WITH C.M.S. SECTION 509.07. INSTALLATION OF CONNECTORS SHALL CONFORM WITH MANUFACTURER RECOMMENDED PROCEDURES.

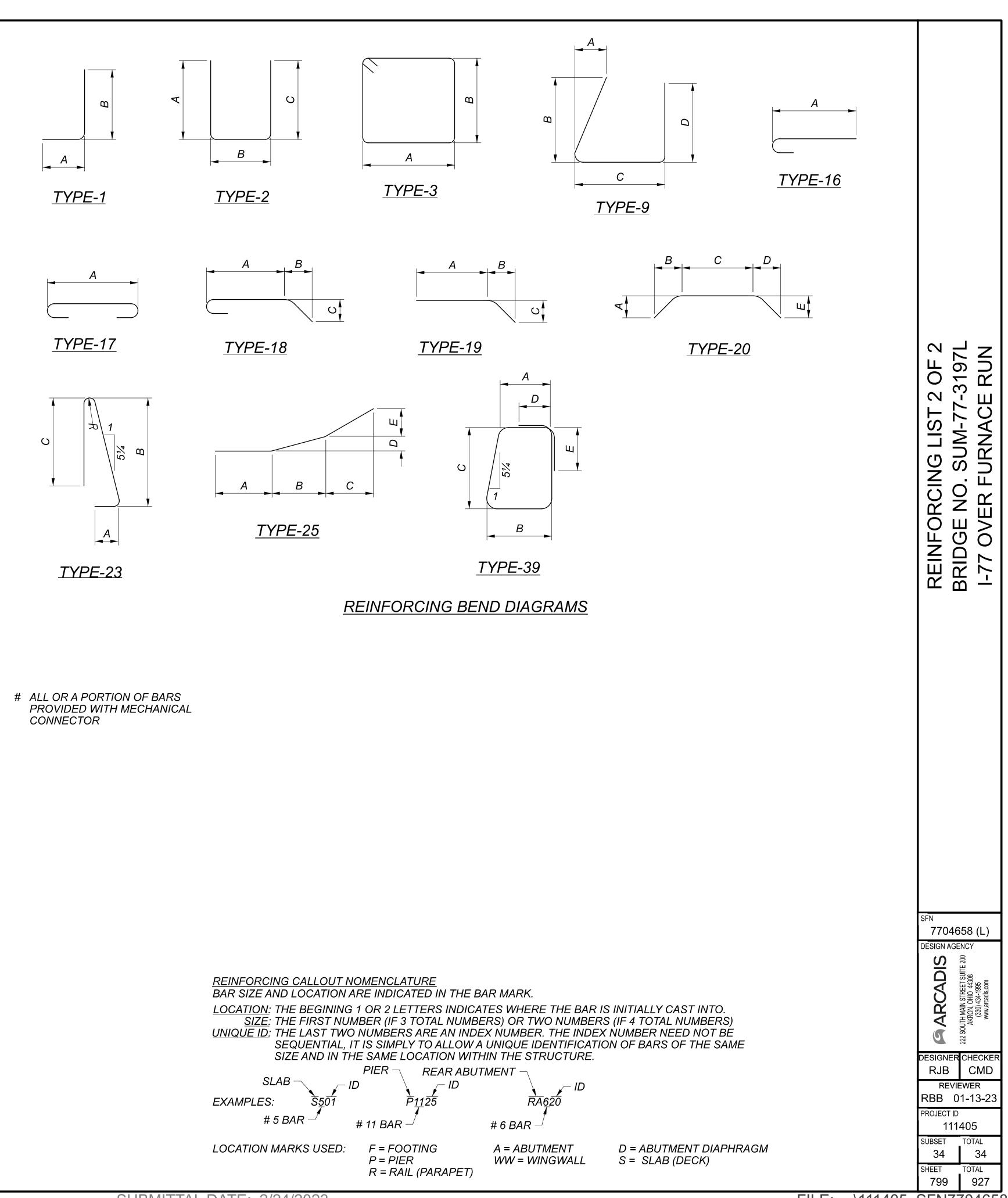
CONNECTORS AND DOWEL BARS USED WITH EPOXY COATED BARS SHALL BE EPOXY COATED. COATING FOR BOTH CONNECTORS AND BARS SHALL CONFORM TO THE SAME SPECIFICATIONS. COATINGS THAT HAVE BEEN DAMAGED OR THAT OTHERWISE DO NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY AND UNIFORMITY, MAY BE REPAIRED AS DIRECTED BY THE ENGINEER, OR THEY SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS. FOR BARS UTILIZING A MECHANICAL CONNECTOR, THE BAR LENGTH FOR PAYMENT IS MEASURED TO THE CENTER OF THE PLANNED MECHANICAL CONNECTION. EXTRA BAR LENGTH AND/OR BAR END PREPARATION MAY BE NECESSARY DEPENDING UPON THE TYPE OF MECHANICAL CONNECTOR FURNISHED AND THOSE COSTS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 509. CONNECTORS AND DOWEL BAR EXTENSIONS SHALL CONFORM TO AND BE INCLUDED IN THE BID PRICE FOR ITEM 509.

04

Z L S

\111405

S



SUBMITTAL DATE: 2/24/2023

 \forall

S

 ∞

 \sim

NN

S

ITEM 509 - REINFORCING STEEL. REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

A QUANTITY OF 300 POUNDS HAS BEEN INCLUDED TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 509 - EPOXY COATED REINFORCING STEEL. AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING. AS A RESULT OF THIS WORK. ACCORDING TO CMS 709.00.

ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT. AS PER PLAN

DOWEL HOLES FOR #5 REINFORCING SHALL BE 7/8" DIAMETER AND A MINIMUM OF 12" DEEP. DOWEL HOLES FOR #8 REINFORCING SHALL BE 1.5" DIAMETER AND A MINIMUM OF 18" DEEP. PRIOR TO DRILLING HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AIDE OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISTING BAR. THE DEPARTMENT WILL PAY FOR DOWEL HOLES AND GROUTING WITH ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN.

ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN

IN ADDITION TO THE BRIDGE DECK PARAPETS, THE DEPARTMENT WILL PAY FOR CONCRETE PARAPETS ON THE APPROACH SLABS WITH ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN.

AS PART OF CONSTRUCTING THE BRIDGE PARAPETS, FURNISH AND INSTALL 4" DIAMETER CONDUITS, COUPLINGS, AND FITTINGS, FROM PULL BOX TO PULL BOX AS SHOWN IN THE PLANS. FURNISH AND INSTALL THE CONDUIT, COUPLINGS, AND FITTINGS AS PER CMS 625.

THE DEPARTMENT WILL PAY FOR FURNISHING AND INSTALLING THE 4" DIAMETER CONDUITS, COUPLINGS, AND FITTINGS WITH ITEM 511 -CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN.

THE DEPARTMENT WILL PAY FOR FURNISHING AND INSTALLING THE PULL BOXES WITH ITEM 625 - PULL BOX IN THE ROADWAY QUANTILLES

ITEM 518 - SCUPPERS. INCLUDING SUPPORTS. AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 518. SCUPPERS SHALL BE NEENAH FOUNDRY MODEL R-4014-C1 HEAVY DUTY SCUPPERS WITH TYPE A BOLTED GRATE OR APPROVED EQUAL. FURNISH AND INSTALL DOWNSPOUTS AND CONNECTIONS AS SHOWN IN THE PLANS AND AS PER CMS 518. INCLUDE THE COST FOR THE DOWNSPOUTS AND CONNECTIONS WITH ITEM 518 - SCUPPERS INCLUDING SUPPORTS, AS PER PLAN.

PILES DRIVEN TO FULL ESTIMATED LENGTH WITH PILE/SOIL SETUP

THE ULTIMATE BEARING VALUE (UBV) IS 298.6 KIPS FOR THE 12" CIP CONCRETE PILES AT THE ABUTMENTS. PART OF THE UBV WILL BE ACHIEVED THROUGH PILE/SOIL SETUP, WHICH IS A TIME DEPENDENT INCREASE IN RESISTANCE THAT OCCURS IN SOME SOILS.

NOTIFY THE ENGINEER AT LEAST 5 DAYS BEFORE DRIVING PILES SO THAT THE ENGINEER CAN NOTIFY THE DISTRICT GEOTECHNICAL ENGINEER. THE OFFICE OF CONSTRUCTION ADMINISTRATION. AND THE OFFICE OF GEOTECHNICAL ENGINEERING

DRIVE THE FIRST TWO PILES AT EACH SUBSTRUCTURE TO THE FULL ESTIMATED LENGTH LISTED IN THE PILE DESIGN LOADS NOTE ON SHEET 3/34. PERFORM DYNAMIC LOAD TESTING ON BOTH PILES WHILE DRIVING. AFTER DRIVING AND TESTING THE FIRST TWO PILES. DRIVE THE REMAINING PILES AT EACH SUBSTRUCTURE TO THE SAME DEPTH AS THE FIRST TWO PILES. AFTER DRIVING ALL PILES TO THE ESTIMATED LENGTH. CEASE ALL DRIVING OPERATIONS AT EACH SUBSTRUCTURE FOR A PERIOD OF 7 DAYS FOR THE ABUTMENTS. INCLUDE THE WAITING PERIOD AS A SEPARATE ACTIVITY IN THE PROGRESS SCHEDULE. AFTER THE WAITING PERIOD, PERFORM PILE RESTRIKES ON BOTH OF THE FIRST TWO PILES AT EACH SUBSTRUCTURE (ONE RESTRIKE ITEM).

IF THE REQUIRED UBV IS ACHIEVED AT THE END OF INITIAL DRIVING. USE THE DYNAMIC LOAD TESTING RESULTS TO ESTABLISH DRIVING CRITERIA ACCORDING TO C&MS 507.05 FOR ALL THE REMAINING **PRODUCTION PILES.**

SUBMIT ALL TEST RESULTS TO THE ENGINEER. IF THE RESTRIKE TEST RESULTS INDICATE THAT THE FIRST TWO PILES AT A SUBSTRUCTURE ACHIEVED THE REQUIRED UBV, ALL PILES IN THAT SUBSTRUCTURE MAY BE ACCEPTED BY THE ENGINEER.

IF THE RESTRIKE TEST RESULTS INDICATE THAT EITHER OF THE FIRST TWO PILES AT A SUBSTRUCTURE DID NOT ACHIEVE THE REQUIRED UBV. IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE ENGINEER CAN NOTIFY THE DISTRICT GEOTECHNICAL ENGINEER, THE OFFICE OF CONSTRUCTION ADMINISTRATION. AND THE OFFICE OF GEOTECHNICAL ENGINEERING. THE ENGINEER WILL REVIEW THE TEST RESULTS AND ESTABLISH ADDITIONAL RESTRIKE TESTING OR DRIVING CRITERIA FOR THE PILING IN THAT SUBSTRUCTURE WITH THE ASSISTANCE OF THE DISTRICT GEOTECHNICAL ENGINEER. THE OFFICE OF CONSTRUCTION ADMINISTRATION. AND THE OFFICE OF GEOTECHNICAL ENGINEERING.

IF DIRECTED BY THE ENGINEER, PERFORM ADDITIONAL RESTRIKE TESTING OR DRIVE ALL PILES AT A SUBSTRUCTURE TO THE ESTABLISHED DRIVING CRITERIA. THE DEPARTMENT WILL PAY FOR SPLICING OF THE PILES BEYOND THE ESTIMATED LENGTH PROVIDED IN THE PLANS UNDER C&MS 109.05 WITH A NEGOTIATED PRICE PER SPLICE.

THIS PLAN NOTE INCLUDES A QUANTITY OF ONE EACH ITEM 523 DYNAMIC LOAD TESTING, AS PER PLAN AND A QUANTITY OF ONE EACH ITEM 523 RESTRIKE, AS PER PLAN PER EACH SUBSTRUCTURE UNIT

STANDARD PLAN DETAILING NOMENCLATURE THROUGHOUT THE PLANS, SECTIONS AND DETAILS ARE REFERENCED TO THEIR CORRESPONDING VIEWS THROUGH THE USE OF STANDARD CALLOUTS. THE VIEWS OF SECTIONS, ELEVATIONS, AND DETAILS WILL HAVE UNIQUE NUMBERS ON THE PAGES ON WHICH THEY ARE SHOWN.

LETTERS WILL BE UTILIZED FOR SECTION AND ELEVATION CALLOUTS. NUMBERS WILL BE UTILIZED FOR DETAIL CALLOUTS.

IF A SECTION. ELEVATION. OR DETAIL VIEW IS ON THE SAME SHEET FROM WHICH IT IS CUT, THE CALLOUT WILL APPEAR AS FOLLOWS:



∖#∡

IF A SECTION. ELEVATION. OR DETAIL VIEW IS ON A DIFFERENT SHEET FROM WHICH IT IS CUT, THE CALLOUT WILL APPEAR AS FOLLOWS:

SECTION, ELEVATION, OR DETAIL IDENTIFICATION (A)

> SHEET WHERE THE CORRESPONDING SECTION. ELEVATION. OR DETAIL CALLOUT OR VIEW CAN BE FOUND

MEMBERS WILL BE IDENTIFIED AS FOLLOWS:

STRUCTURE DESIGNATION "SINGLE LETTER" FOR EXISTING BEAM OR "B" FOR PROPOSED BEAM SINGLE NUMBER (IN A CIRCLE) FOR PROPOSED BEAMS

SECTION, ELEVATION, OR DETAIL IDENTIFICATION

IDENTIFICATION NUMBER

〈 X# ˈ

ADT = AVERAGE DAILY TRAFFIC ADTT = AVERAGE DAILY TRUCK TRAFFIC APP = APPROACHAPPR = APPROXIMATEAVE = AVENUE*B*#` BEAM NUMBER (PROPOSED) BEAM LETTER (EXISTING) # > *BF* = *BOTTOM FLANGE* BM = BENCHMARKBOTT = BOTTOMBRG = BEARING BTWN = BETWEEN C.B. = CHORD BEARINGC/C = CENTER TO CENTERCB = CATCH BASINCCTV = CLOSED CIRCUIT TELEVISION CIP = CAST IN PLACE CJ = CONSTRUCTION JOINT CJ-O = OPTIONAL CONSTRUCTION JOINT CLR = CLEAR*CMP* = *CORRUGATED METAL PIPE* CMS = CONSTRUCTION MATERIAL SPECIFICATIONS CONST = CONSTRUCTION CP = COVER PLATECSP/N = CORRUGATED STEEL PIPE (NON-PERFORATED) CSP/P = PERFORATED CORRUGATED STEEL PIPE DIA = DIAMETER DND = DO NOT DISTURB DPRM = DIAPHRAGME/P = EDGE OF PAVEMENT E/S = EDGE OF SHOULDEREB = EASTBOUNDEF = EACHFACEELEC = ELECTRICELEV or EL = ELEVATIONEX = EXISTINGEXP = EXPANSIONF/F = FACE TO FACEFA = FORWARD ABUTMENT FF = FAR FACE/FILL FACE FO = FIBER OPTICFTG = FOOTINGFWD = FORWARDGR = GUARDRAIL H.C. = HORIZONTAL CURVE HORZ = HORIZONTALI/I = INSIDE TO INSIDE *IR* = *INTERSTATE ROUTE* JT = JOINTLT = LEFTMAX = MAXIMUMMH = MANHOLEMHC = MINIMUM HORIZONTAL CLEARANCE MIN = MINIMUMMISC = MISCELLANEOUS

ABUT = ABUTMENT

MVC = *MINIMUM VERTICAL CLEARANCE*

PERMITS FOR SECTION 401 AND 404 TEMPORARY ACCESS FILLS

THE TEMPORARY ACCESS FILL INFORMATION USED FOR THE PERMIT APPLICATION IS AVAILABLE FOR INFORMATIONAL PURPOSED ONLY AND IS PROVIDED AS PART OF THE DESIGNER CALCULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING THEIR OWN TEMPORARY ACCESS FILL AND THE DESIGN SHOULD CORRESPOND WITH REQUIREMENTS OF SS 832 AND THOSE FOUND IN THE SPECIAL PROVISIONS.

FOR THIS PROJECT. PERMITS FOR SECTION 401 AND 404 OF THE CLEAN WATER ACT, ARE BASED ON THE LIMITS OF TEMPORARY CONSTRUCTION FILL PLACED IN THE WATERS OF THE UNITED STATES AS SHOWN IN THE SPECIAL PROVISIONS. SHOULD THE CONTRACTOR CHOOSE TO DEVIATE FROM THE PROPOSED TAF, THE CONTRACTOR IS REQUIRED TO COORDINATE THE REQUEST FOR THE CAUSEWAY AND ACCESS FILL(S) WITH THE PROJECT ENGINEER AND OES, IF A PERMIT MODIFICATION IS **REQUIRED REFER TO SUPPLEMENT SPECIFICATION 832.06 FOR** APPLICATION REQUIREMENTS AND TIME FRAMES

CHANNEL DISTURBED DUE TO TEMPORARY CROSSING LENGTH OF CHANNEL DISTURBED = 42.0 FT

STANDARD PLAN ABBREVI	ATIONS AND S	YMBOLS				
RAFFIC RUCK TRAFFIC	N.P.C	NB = NORT NE = NORT NF = NEAR NO = NUME S.P.P. = NON- NW = NORT	THEAST R FACE BER PERFORATED) CORRUGATE	D PLASTIC PIPE	
ROPOSED)		O/O = OUT		R		
(ISTING)	0	OH = OVEF				
1311110)		OVHD = OVER DOT = OHIO P.V.I. = POIN PC = POIN PCB = PORT	RHEAD DEPARTMEN T OF VERTICA T OF CURVE TABLE CONCR	T OF TRANSPO L INTERSECT ETE BARRIER RUGATED PL/	ION	
ER		-	ORMED EXPA	NSION JOINT	FILLER	
TELEVISION	F		T OF INTERSE T OF MINIMUN	ECTION I VERTICAL CI	FARANCE	
OINT			T ON TANGEN			
RUCTION JOINT		PT = POIN	T OF TANGEN	Т		
TAL PIPE IATERIAL SPECIFICATIONS			ABUTMENT	CRETE PIPE		F 2 197R RUN
EEL PIPE (NON-PERFORATED)		REF = REFE		RFBAR		Q L R
RRUGATED STEEL PIPE		EQ'D = REQL RT = RIGH R/W = RIGH	JIRED T T OF WAY			ES 2 1-77- 1ACE
NT		S/O = SERIE SR = STATI	E ROUTE			NOTES SUM-7 FURNA
ER		SE = SOUT SER = SERIE SF = SQUA	DARD CONST THEAST ES NRE FEET	RUCTION DR	AWING	AL AL AL AL
	Sł	HLDR = SHOU SPA = SPAC				ENER/ IDGE 1
ENT		ST = STRE STA = STAT	ET OR SPAN ⁻ ON	TOTAL		
CE		STD = STAN STG = STAG	DARD			GI BRI I-7
	STF	STM = STOR RUCT = STRU				
VE		SW = SOUT T/= TOP(HWEST			
			AND BOTTOM			
ΓΕ	7	TBR = TO BE TEMP = TEMP TYP = TYPIC	E REMOVED PORARY			
	U	I.N.O. = UNLE	SS NOTED OT	THERWISE		
NTAL CLEARANCE		/ERT = VERT WB = WEST	TCAL			
AL CLEARANCE		WTR = WATE WW = WING YR = YEAR	ER WALL			
04 TEMPORARY ACCESS	SCOUR ELE	VATIONS				
TION USED FOR THE PERMIT ATIONAL PURPOSED ONLY AND & CALCULATIONS. THE	THE DESIGN F PROVIDED BE		HECK FLOOD	SCOUR ELEV	ATIONS ARE	
SIGNING THEIR OWN 'GN SHOULD CORRESPOND OSE FOUND IN THE SPECIAL		REAR ABUTMENT	PIER NO. 1	PIER NO. 2	FORWARD ABUTMENT	SFN
	DESIGN FLOOD	N/A	968.87	968.77	N/A	7704682 (R) DESIGN AGENCY
ION 401 AND 404 OF THE CLEAN OF TEMPORARY CONSTRUCTION ITED STATES AS SHOWN IN THE ITRACTOR CHOOSE TO DEVIATE	CHECK FLOOD	N/A	968.71	968.61	N/A	
ACTOR IS REQUIRED TO AUSEWAY AND ACCESS FILL(S) , IF A PERMIT MODIFICATION IS CIFICATION 832.06 FOR FRAMES.	ITEM 894 - 7 REREORM INT			· ·	T.I.P.) TEST	222 SOUTH MAIN STREE AKRON, OHIO 4 (330) 434-199 www.arcadis.cc
RY CROSSING LENGTH OF	BY THERMAL I ASTM D7949, '	NEGRITY PRO STANDARD TI CONCRETE I	DFILING (T.I.P. EST METHOD DEEP FOUND). PERFORM 1 S FOR THERM	.I.P. TESTING PER	DESIGNER CHECKER RJB FJG REVIEWER RBB 01-13-23
						PROJECT ID 111405
						SUBSET TOTAL
						4 34 SHEET TOTAL

803 927

RECONST. WIDENING TOTAL 202 11203 LS LS 202 22900 274 274 503 14000 142 142 503 21100 142 142 505 11100 LS LS 507 00500 810 810 507 00551 870 870 509 10001 37,285 37,285 509 20001 3008 300 510 10001 22 22 511 34447 81 81 511 34447 36 36 511 44512 32 32 511 44512 32 32 512 33000 8 8 SPECIAL 51275500 370 370	UNIT LS SY LS CY LS
202 22900 274 274 503 1100 142 142 503 21100 142 142 505 11100 LS LS 505 11100 LS LS 507 00500 810 810 507 00551 870 870 509 10001 37,285 37,285 509 20001 3000 300 510 10001 22 22 511 34447 81 81 511 34447 36 36 511 34451 36 36 511 34447 81 81 511 34447 81 81 511 34451 36 36 511 46512 32 32 512 33000 8 8 SPECIAL 51275500 370 370	SY LS CY LS
503 11000 LS LS 503 21100 142 142 142 505 11100 LS LS 1 507 00500 810 810 810 507 00551 870 870 70 509 10001 37,285 37,285 300 509 20001 308 300 300 300 510 10001 22 22 14 511 34447 81 81 81 511 34451 36 36 36 511 44112 37 37 37 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	LS CY LS
503 21100 142 142 505 11100 LS LS 507 00500 810 810 507 00551 870 870 509 10001 37,285 37,285 509 20001 308 300 510 10001 22 22 511 34447 81 81 511 34447 81 81 511 34447 36 36 511 34447 38 38 511 34447 81 81 511 34451 36 36 511 34451 36 36 511 34451 36 36 511 46512 32 32 512 33000 8 8 SPECIAL 51275500 370 370	CY LS
505 11100 LS LS 507 00500 810 810 507 00551 870 870 507 00551 870 870 509 10001 37,285 37,285 509 20001 300 300 509 30020 3,407 3,407 510 10001 22 22 1 511 34447 81 81 1 511 34447 81 81 1 511 34447 36 36 36 511 34451 36 36 36 511 44012 37 37 37 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	LS
507 00500 810 810 507 00551 870 870 507 00551 870 870 509 10001 37,285 37,285 509 20001 306 300 509 30020 3,407 3,407 510 10001 22 22 1 511 34447 81 81 1 511 34447 36 36 36 511 44012 37 37 37 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	
507 00500 810 810 507 00551 870 870 507 00551 870 870 509 10001 37,285 37,285 509 20001 306 300 509 30020 3,407 3,407 510 10001 22 22 1 511 34447 81 81 1 511 34447 36 36 36 511 44012 37 37 37 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	
507 00551 870 870 509 10001 37,285 37,285 509 20001 300 300 509 30020 3,407 3,407 510 10001 22 22 1 511 34447 81 81 1 511 34451 36 36 36 511 42012 38 38 38 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	FT
507 00551 870 </td <td></td>	
509 20001 306 300 509 30020 3,407 3,407 510 10001 22 22 1 511 34447 81 81 1 511 34451 36 36 36 511 34451 36 36 36 511 34451 36 36 36 511 44012 37 37 37 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	FT
509 20001 306 300 509 30020 3,407 3,407 510 10001 22 22 1 511 34447 81 81 1 511 34451 36 36 36 511 34451 36 36 36 511 34451 36 36 36 511 44012 37 37 37 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	
509 30020 3,407 3,407 3,407 510 10001 22 22 1 511 34447 81 81 1 511 34451 36 36 36 511 442012 38 38 38 511 44512 37 37 7 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	LB
510 10001 22 22 1 511 34447 81 81 1 511 34451 36 36 36 511 42012 38 38 38 511 44112 37 37 37 511 46512 32 32 32 512 33000 8 8 8 SPECIAL 51275500 370 370 370	LB
511 34447 81 81 511 34451 36 36 36 511 42012 38 38 38 511 42012 37 37 37 511 44112 37 32 32 32 511 46512 32 32 32 32 512 33000 8 8 8 5 SPECIAL 51275500 370 370 4 4	FT
511 34451 36 36 511 42012 38 38 511 44112 37 37 511 46512 32 32 512 33000 8 8 SPECIAL 51275500 370 370	EACH
511 42012 38 38 511 44112 37 37 511 46512 32 32 512 33000 8 8 SPECIAL 51275500 370 370	CY
511 44112 37 37 511 46512 32 32 512 33000 8 8 SPECIAL 51275500 370 370	CY
511 46512 32 32 512 33000 8 8 SPECIAL 51275500 370 370	CY
512 33000 8 8 SPECIAL 51275500 370 370	CY CY
SPECIAL 51275500 370 370	
	SY SY
513 10260 51,445 51,445	LB
513 20000 906 906 B	EACH
514 00050 834 834	SF
514 00056 834 834	SF
514 00060 3,500 3,500	SF
514 00066 3,500 3,500 514 00504 1 1 N	SF
	MNHR EACH
516 10010 115 26 141	FT
516 13600 17 17 516 13900 47 47	SF SF
510 13900 47 47 516 14020 38 38	FT
	EACH
516 44101 4 4 F	EACH
518 12201 3 3 I	EACH
518 21200 24 24	CY
518 40000 55 55 518 40010 59 59	FT
518 40010 59 59	FT
	EACH
523 20501 1 1 I	EACH
524 94946 114 114	FT
526 25011 283 68 351	SY
526 90030 115 25 140	
601 20000 587 587	FT
625 33000 1 1 E	
894 10000 2 2 8	FT

Tracings : IN-PROGRESS PLOT: 8/3/2023 12:49:11 PM

USER: cfer ^Enningering-: 12:49:11 PM \\111405\402-F TIME:)23 DAT i. SUM-77-28.75 MODEL: Sheet PAPERSIZE: 34x22 (in pw:\lgfnet-pw.bentley.com:gfnet-pw-01)

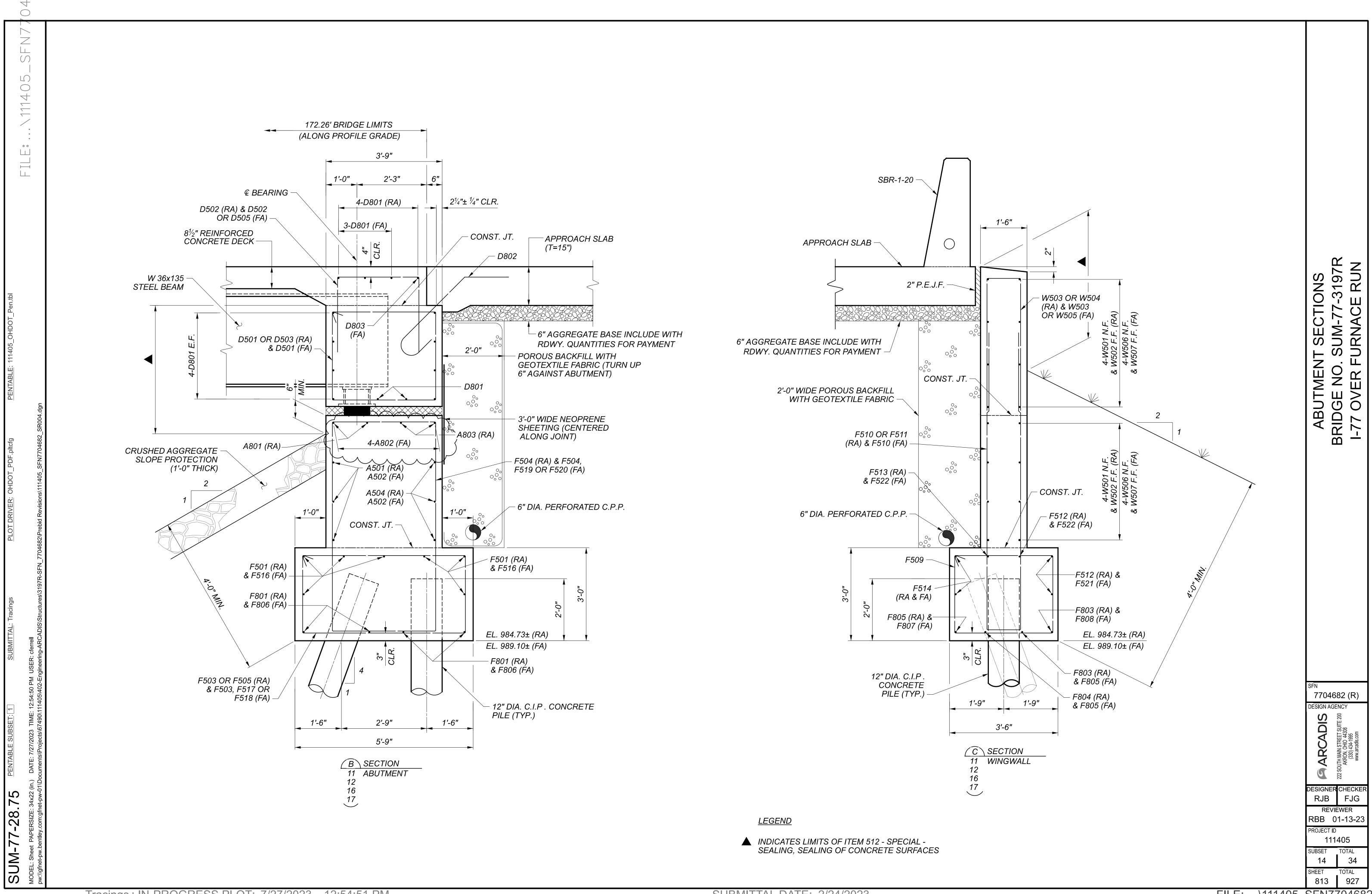
SFN7 \111405_ •

04

SUM-77-3197R BRIDGE SUMMARY

DESCRIPTION	ABUT.	PIER
PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN		
APPROACH SLAB REMOVED		
~COFFERDAMS AND EXCAVATION BRACING~		\sim
UNCLASSIFIED EXCAVATION	142	
		<u> </u>
PILE DRIVING EQUIPMENT MOBILIZATION		
12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	810	
12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED, AS PER PLAN	870	
	010	
EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN	4,715	5,68
		5,00
CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN		
NO. 4 DEFORMED GFRP REINFORCEMENT		
DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	22	
CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN		
CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN		
CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		38
CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	37	
CLASS QC1 CONCRETE WITH QC/QA, FOOTING	32	
TYPE 2 WATERPROOFING	8	
SEALING OF CONCRETE SURFACES	46	98
STRUCTURAL STEEL MEMBERS, LEVEL 3		
WELDED STUD SHEAR CONNECTORS		
SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL		
FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT		
FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		
GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL		
FINAL INSPECTION REPAIR		
ARMORLESS PREFORMED JOINT SEAL		
1" PREFORMED EXPANSION JOINT FILLER		
2" PREFORMED EXPANSION JOINT FILLER	47	
SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	38	
ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE)		
(17"x11"x2.53" BEARING WITH 18"x12" LOAD PLATE AND BEVELED HP10x42 PEDESTAL)		4
ELASTOMERIC BEARING WITH 18 X12 LOAD PLATE AND BEVELED HP 10x42 PEDESTAL)		
(13"x10"x2.27" BEARING WITH 14"x11" LOAD PLATE AND BEVELED HP10x42 PEDESTAL), AS PER PLAN	4	
(13 X10 X2.27 BEARING WITH 14 XTT EOAD FEATE AND BEVELED THE TOXA2 FEDESTAE), AS FER FEAN		
SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN		
POROUS BACKFILL WITH GEOTEXTILE FABRIC	24	
6" PERFORATED CORRUGATED PLASTIC PIPE	55	
6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	59	
DYNAMIC LOAD TESTING, AS PER PLAN	2	
RESTRIKE, AS PER PLAN	1	
DRILLED SHAFTS, 72" DIAMETER, ABOVE BEDROCK		114
REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN		
TYPE C INSTALLATION		
CRUSHED AGGREGATE SLOPE PROTECTION	587	
STRUCTURE GROUNDING SYSTEM		
THERMAL INTEGRITY PROFILER (TIP) TEST		2
、 <i>/</i>	·	

		CALC: ARO 6/1/22	CHECK: RJB 1/10/23	
		0/1/22	1/10/20	
RS	SUPER	GENERAL	APP/REF SHEET NO.	
			ONLLI NO.	
		LS	3	
		274		
\sim				
\checkmark \checkmark	\sum	LS	$\frown \frown \frown \frown$	N
)	(
\checkmark			\sim	
		LS		
			3	
			0	
				S A A
684	26,050	836	4	3197 3197
	··	300	4	
_	2,651	756		
			4	₹
				D QUANTITIES
	81		20	
	36		4	
8				ESTIMATE BRIDGE NO
				GE NO
				$ \geq \square$
				IEON
8	182	44		
0	102			
	51,445			
	906			
	834			
	834			
	3,500			
	3,500			
	1			
	3			
		141		
		141		
		17		
4				
			10	
			19	
	3		4	
				SFN 7704692 (F
				7704682 (F
				DESIGN AGENCY
			Λ	
			4	REET 5 0 4430
			4	ARRON, OHIO 44308 (330) 434-1995
4				
т				222 SO
		351	30 , 31	
		140		RJB FJ
				REVIEWER
				RBB 01-13-
				PROJECT ID
		1		111405
		1		
		1		111405 SUBSET TOTAL



			NUMBER				ш		
MARK	MAT'RL TYPE	REAR	FORWARD	TOTAL	LENGTH	WEIGHT	ΤΥΡ	A	В
		ABU	UTMENT FC	OOTING (E	POXY CO	ATED STEE		INFORC	EMEN
F501	ECSR			$\overline{\checkmark}$	15'-2"	-111-	STR		
F502	ECSR	7	7	14)	5'-7"	(82)	1	1'-0"	4'-9
F503	ECSR	11	10	21	16'-8"	365	3	5'-5"	2'-7
F504	ECSR	11	9	20	20'-6"	428	3	3'-5"	6'-6
F505	ECSR	1		1	14'-2"	15	3	4'-2"	2'-7
F506	ECSR	1		1	9'-6"	10	3	1'-10"	2'-7
F507	ECSR	3		3	4'-8"	15	19	3'-9"	0'-9
F508	ECSR	3		3	7'-4"	23	20	2'-9"	1'-7
F509	ECSR	13	14	27	12'-2"	343	3	3'-2"	2'-7
F510	ECSR	15	13	28	20'-11"	611	2	10'-0"	1'-2
F511	ECSR	1		1	21'-1"	22	2	10'-0"	1'-4
F512	ECSR	3		3	21'-5"	67	STR		
F513	ECSR	1		1	20'-9"	22	STR		
F514	ECSR	2	2	4	13'-6"	56	STR		
F515	ECSR	1		1	11'-2"	12	3	2'-8"	2'-7
F516	ECSR		7	7	14'-11"	109	STR		
F517	ECSR		1	1	17'-4"	18	3	5'-9"	2'-7
F518	ECSR		1	1	18'-4"	19	3	6'-3"	2'-7
F519	ECSR		1	1	21'-0"	22	3	3'-8"	6'-6
F520	ECSR		1	1	21'-6"	22	3	3'-11"	6'-6
F521	ECSR		2	2	17'-2"	36	STR		
F522	ECSR		2	2	16'-8"	35	STR		
F801	ECSR	4		4	15'-2"	162	STR		
F802	ECSR	4	4	8	7'-6"	160	1	1'-4"	6'-5
F803	ECSR	2	-	2	21'-5"	114	STR		
F804	ECSR	1		1	20'-9"	55	STR		
F805	ECSR	1	2	3	16'-8"	134	STR		
F806	ECSR	· ·	4	4	14'-11"	159	STR		
F807	ECSR		1	1	13'-6"	36	STR		
F808	ECSR		1	1	17'-2"	46	STR		
					SUBTOTAL	3,309			

 \sim

PLOT DR

PENTABLE SUBSET

 \triangleleft \bigcirc

 \sim Ż

Tracings : IN-PROGRESS PLOT: 7/27/2023 1:16:35 PM

MARK	MAT'RL		NUMBER		LENGTH	WEIGHT	ЪЕ			DIMEN	SIONS			
WARA		REAR	FORWARD	TOTAL	LENGTH	WEIGHT	TYP	A	В	С	D	E	INC	
		A	BUTMENT	STEM (EP		ED STEEL	REII	NFORCE	⊥ MENT - E	CSR)	1			
A501	ECSR	3		3	15'-11"	50	1	1'-0"	15'-1"					
A502	ECSR		6	6	15'-1"	94	1	1'-0"	14'-3"					
A503	ECSR		1	1	16'-4"	17	3	3'-11"	3'-11"					
A504	ECSR	3		3	14'-11"	47	1	1'-0"	14'-1"					
A801	ECSR	2		2	16'-2"	86	1	1'-4"	15'-1"					
A802	ECSR		4	4	15'-4"	164	1	1'-4"	14'-3"					
A803	ECSR	2		2	15'-2"	81	1	1'-4"	14'-1"					
W501	ECSR	8		8	19'-3"	161	STR							
W502 W503	ECSR ECSR	8 15	13	<u>8</u> 28	18'-7" 8'-9"	155 256	STR 2	3'-11"	1'-2"	3'-11"				
W503	ECSR	1		1	8'-11"	230	2	3-11"	1'-4"	3-11"			<u> </u>	
W505	ECSR	, 	1	1	20'-0"	21	3	8'-4"	1'-4"				<u> </u>	7 R
W506	ECSR		8	8	15'-7"	130	STR							0F 197
W507	ECSR		8	8	16'-2"	135	STR							310
						4.400								
					SUBTOTAL				ODOEME					ן ה' ה
DEOA		i	NTEGRAL DI		1	1	1		1	NI - ECS	<i>K)</i>			
D501 D502	ECSR ECSR	10 11	11 10	<u>21</u> 21	14'-2" 7'-10"	310 172	3	3'-11" 2'-5"	2'-10" 3'-3"	2'-5"				D D S
D502	ECSR	1	10	1	15'-8"	16	3	2-3 4'-8"	2'-10"	2-5				
 D504	ECSR	5		5	5'-10"	30	1	3'-0"	3'-0"					NO NO
D505	ECSR		1	1	7'-2"	7	2	2'-5"	2'-7"	2'-5"				П N N
500/			10			(007								
D801	ECSR	14 10	13 11	<u>27</u> 21	14'-3" 5'-3"	1027	STR 18	3'-0"	1'-0"	1'-0"				REINF BRIDG
D802 D803	ECSR ECSR	10	1	1	14'-2"	294 38	19	3 <i>-</i> 0 12'-10"	1'-2"	0'-8"				RE BRI
		SEMI-INTE	EGRAL DIAPHR	AGM ECSR	SUBTOTAL	1,894								
MARK	MAT'RL		NUMBER		LENGTH	WEIGHT	УРЕ			DII	MENSION	IS		
		PIER NO. 1	PIER NO. 2	TOTAL	LENGTH		\	A	В	С	D	E	INC	
			PIER	(EPOXY (COATED ST	TEEL REIN	FOR	CEMENT	- ECSR)					
P501	ECSR	20	21	41	13'-4"	570	3	3'-8"	2'-8"					
P502	ECSR	20	21	41	5'-5"	232	9	0'-9"	0'-9"	3'-8"	1'-0"			
P503	ECSR	20	21	41	4'-5"	189	9	0'-9"	0'-9"	2'-8"	1'-0"			
P504	ECSR	4	4	8	8'-8"	72	STR	01.0"	01.0"				<u> </u>	
P505	ECSR	8 2 S P	8 2 S P	16 1 SP	12'-4"	206	3	2'-8"	3'-2" 2'-8"					
P506	ECSR	2 SR OF	2 SR OF	4 SR OF	11'-4" TO	245	3	2'-8"	7-8 ^m TO				0'-11/4"	
1 000		5	5	5	12'-2"			20	3'-1"				0-1/4	
P801	ECSR	20		20	22'-5"	1197	16	21'-6"						
P802	ECSR	3	3	6	8'-9"	140	20	0'-6"	2'-4"	4'-0"	2'-4"	0'-6"	<u> </u>	
P803 P804	ECSR ECSR	5	5 20	<u> </u>	13'-7" 24'-3"	363 1295	2 16	2'-8" 23'-4"	8'-8"	2'-8"				SFN 7704682
r⁻004	ECSR	20	20	<u> </u>	<u> </u>	1295	STR	20 - 4					<u> </u>	7704682 DESIGN AGENCY
P805		_~				+	+	ļ			<u> </u>			
P805				PIER ECSR	SUBTOTAL	5,684								ARCADIS 2 SOUTH MAIN STREET SUITE 200

MARK A501 A502 A503	MAT'RL	NUMBER					YPE	DIMENSIONS						
A502	TYPE	REAR	FORWARD	TOTAL	LENGTH	WEIGHT		Α	В	С	D	E	INC	
A502		A	BUTMENT S	STEM (EP	+ OXY COAT	+ TED STEEL		IFORCEI	HENT - E			 		
A502	ECSR	3		3	15'-11"	50	1	1'-0"	15'-1"					
	ECSR		6	6	15'-1"	94	1	1'-0"	14'-3"					
	ECSR		1	1	16'-4"	17	3	3'-11"	3'-11"					
A504	ECSR	3		3	14'-11"	47	1	1'-0"	14'-1"					
A801	ECSR	2		2	16'-2"	86	1	1'-4"	15'-1"					
A802	ECSR		4	4	15'-4"	164	1	1'-4"	14'-3"					
A803	ECSR	2		2	15'-2"	81	1	1'-4"	14'-1"					
W501	ECSR	8		8	19'-3"	161	STR							
W502	ECSR	8		8	18'-7"	155	STR							
W503	ECSR	15	13	28	8'-9"	256	2	3'-11"	1'-2"	3'-11"				
W504	ECSR	1		1	8'-11"	9	2	3'-11"	1'-4"	3'-11"				
W505	ECSR			1	20'-0"	21	3	8'-4"	1'-4"				<u> </u>	
W506	ECSR		8	8	15'-7"	130	STR							
W507	ECSR		8	8	16'-2"	135	STR							- °
					SUBTOTAL	1,406								$ \vdash \Sigma$
						-			000545		<u></u>			ן ט יד
			TEGRAL D		1				i	NI - ECS	R)	1		
D501	ECSR	10	11	21	14'-2"	310	3	3'-11"	2'-10"					D S U
D502	ECSR	11	10	21	7'-10"	172	2	2'-5"	3'-3"	2'-5"				
D503	ECSR	1		1	15'-8"	16	3	4'-8"	2'-10"					$\left \left(\right) \right\rangle$
D504	ECSR	5		5	5'-10"	30	1	3'-0"	3'-0"	01 51				
D505	ECSR		1	1	7'-2"	7	2	2'-5"	2'-7"	2'-5"				ТОШ
D801	ECSR	14	13	27	14'-3"	1027	STR							DG DG
D802	ECSR	14	11	21	5'-3"	294	18	3'-0"	1'-0"	1'-0"				
D803	ECSR	10	1	1	14'-2"	38	19	12'-10"	1'-2"	0'-8"				REI BRI
2000	2001	SEMI-INTE	GRAL DIAPHR	, RAGM ECSR		1,894		12 10	, 2				<u> </u>	
			NUMBER				h					71		
MARK	MAT'RL TYPE	PIER	PIER	TOTAL	LENGTH	WEIGHT	TYPE							
		NO. 1	NO. 2					Α	В	C	D	E	INC	
			PIER	(EPOXY (COATED S	TEEL REIN	FOR	CEMENT	- ECSR)					
	ECSR	20	21	41	13'-4"	570	3	3'-8"	2'-8"					
P501		20	21	41	5'-5"	232	9	0'-9"	0'-9"	3'-8"	1'-0"			
P501 P502	ECSR	20	21								1'-0"			
	ECSR ECSR	20	21	41	4'-5"	189	9	0'-9"	0'-9"	2'-8"	1-0		·	
P502					4'-5" 8'-8"	189 72	9 STR	0'-9"	0'-9"	2'-8"	7-0			
P502 P503	ECSR	20 4 8	21 4 8	41 8 16	8'-8" 12'-4"			0'-9" 2'-8"	3'-2"	2'-8"	7-0			
P502 P503 P504 P505	ECSR ECSR ECSR	20 4 8 2 SR	21 4 8 2 SR	41 8 16 4 SR	8'-8" 12'-4" 11'-4"	72 206	STR 3	2'-8"	3'-2" 2'-8"	2'-8"	7-0			
P502 P503 P504	ECSR ECSR	20 4 8 2 SR OF	21 4 8 2 SR OF	41 8 16 4 SR OF	8'-8" 12'-4" 11'-4" TO	72	STR		3'-2" 2'-8" TO	2'-8"	7-0		0'-1 ¹ ⁄4"	
P502 P503 P504 P505	ECSR ECSR ECSR	20 4 8 2 SR	21 4 8 2 SR	41 8 16 4 SR	8'-8" 12'-4" 11'-4"	72 206	STR 3	2'-8"	3'-2" 2'-8"	2'-8"			0'-1 ¹ ⁄4"	
P502 P503 P504 P505 P506	ECSR ECSR ECSR ECSR	20 4 8 2 SR OF 5	21 4 8 2 SR OF	41 8 16 4 SR OF 5	8'-8" 12'-4" 11'-4" TO 12'-2"	72 206 245	STR 3 3	2'-8" 2'-8"	3'-2" 2'-8" TO	2'-8"			0'-1 ¹ ⁄4"	
P502 P503 P504 P505 P506 P506	ECSR ECSR ECSR ECSR	20 4 8 2 SR OF 5 20	21 4 8 2 SR OF 5	41 8 16 4 SR OF 5 20	8'-8" 12'-4" 11'-4" TO 12'-2" 22'-5"	72 206 245 1197	STR 3 3 16	2'-8" 2'-8" 21'-6"	3'-2" 2'-8" TO 3'-1"				0'-1 ¹ ⁄ ₄ "	
P502 P503 P504 P505 P506 P801 P802	ECSR ECSR ECSR ECSR ECSR ECSR	20 4 8 2 SR OF 5 20 3	21 4 8 2 SR OF 5 	41 8 16 4 SR OF 5 20 6	8'-8" 12'-4" 11'-4" TO 12'-2" 22'-5" 8'-9"	72 206 245 1197 140	STR 3 3 16 20	2'-8" 2'-8" <u>21'-6"</u> 0'-6"	3'-2" 2'-8" TO 3'-1" 2'-4"	4'-0"	2'-4"	0'-6"	0'-1 ¹ ⁄ ₄ "	
P502 P503 P504 P505 P506 P801 P802 P803	ECSR ECSR ECSR ECSR ECSR ECSR ECSR	20 4 8 2 SR OF 5 20	21 4 8 2 SR OF 5 5 3 3 5	41 8 16 4 SR OF 5 20 6 10	8'-8" 12'-4" 11'-4" TO 12'-2" 22'-5" 8'-9" 13'-7"	72 206 245 1197 140 363	STR 3 3 16 20 2	2'-8" 2'-8" 21'-6" 0'-6" 2'-8"	3'-2" 2'-8" TO 3'-1"			0'-6"	0'-1 ¹ ⁄ ₄ "	SFN 7704682
P502 P503 P504 P505 P506 P801 P802	ECSR ECSR ECSR ECSR ECSR ECSR	20 4 8 2 SR OF 5 20 3	21 4 8 2 SR OF 5 	41 8 16 4 SR OF 5 20 6	8'-8" 12'-4" 11'-4" TO 12'-2" 22'-5" 8'-9"	72 206 245 1197 140	STR 3 3 16 20	2'-8" 2'-8" <u>21'-6"</u> 0'-6"	3'-2" 2'-8" TO 3'-1" 2'-4"	4'-0"		0'-6"	0'-1 ¹ ⁄ ₄ "	SFN 7704682 DESIGN AGENCY

DIMENSIONS								
D	E	INC						
1'-7"	2'-9"							
1 - 1	<i>L</i> -5							
		D E						

REINFORCING NOTES AND DETAILS FOR REINFORCING GENERAL NOTES AND BEND DIAGRAMS, SEE SHEET 34/34 DESIGNER CHECKER RJB FJG REVIEWER RBB 01-13-23

111405

SUBSET TOTAL

PROJECT ID