



NORMAL SECTION - US 35 STA. 317+63.38 TO STA. 323+00.03

NOTES:

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STA. 719+69.00 TO STA. 722+58.75 = 289.75 FT.



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	CALCULATED	
TION 9. 22 9. 22	TYPICAL SECTIONS - RAMP H	
D SEE SHEET NO. 11 DM 8' AT STA. 1034+25.00 TO 0' AT STA. 1034+75.00 DM 6' AT STA. 1042+91.08 TO 8' AT STA. 1043+41.08 SCHEMATIC PLAN FOR LIMITS	GRE-US 35-5.63	
DETAILS, SHEET NO. 424	20 698)



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ITEM SPECIAL - SETTLEMENT PLATFORMS:

SETTLEMENT PLATFORMS SHALL BE PLACED AT THE BOTTOM OF THE MSE WALLS AND APPROACH EMBANKMENT AT THE LOCATIONS INDICATED BELOW, UNLESS OTHERWISE DIRECTED BY ODOT.

CONTRACTOR HAS THE OPTION OF USING EITHER STEEL OR PLYWOOD PLATFORM BASE.

CONTRACTOR SHALL FURNISH MATERIALS AND LABOR TO EXTEND PIPE THROUGH ENTIRE FILL.

SETTLEMENT PLATFORMS SHALL BE ANCHORED BY STAKES DRIVEN AT EACH CORNER TO PREVENT OVERTURNING.

SPECIFICATIONS:

DESCRIPTION:

THIS ITEM CONSISTS OF FURNISHING, CONSTRUCTING, AND MAINTAINING SETTLEMENT PLATFORMS AND OBTAINING SETTLEMENT READINGS AS REQUIRED BY THE PLANS OR AS DIRECTED BY THE ENGINEER. AT THE OPTION AND EXPENSE OF THE CONTRACTOR, ADDITIONAL SETTLEMENT PLATFORMS MAY BE INSTALLED AT ADDITIONAL LOCATIONS.

INSTALL EACH SETTLEMENT PLATFORM ON THE EXISTING GROUND PRIOR TO COMMENCEMENT OF EMBANKMENT OPERATIONS. OBTAIN BASELINE READING IMMEDIATELY UPON SETTLEMENT PLATFORM INSTALLATION AND BEGIN WEEKLY READINGS.

SETTLEMENT READINGS SHALL BE TAKEN WEEKLY DURING CONSTRUCTION AND DURING ANY SPECIFIED WAITING PERIOD. THE READINGS SHALL BE PLOTTED UTILIZING THE SETTLEMENT PLATFORM READINGS EXCEL SPREADSHEET AS DEVELOPED BY ODOT'S OFFICE OF GEOTECHNICAL ENGINEERING. A COPY OF EACH CUMULATIVE PLOT SHALL BE SENT TO ODOT, AFTER EACH SETTLEMENT READING IS RECORDED.

VIBRATING WIRE SETTLEMENT MONITORING PLATFORMS MAY BE CONSIDERED IN LIEU OF THE CONVENTIONAL SETTLEMENT PLATFORMS. THE CONTRACTOR SHOULD PROVIDE DETAILS OF THE PROPOSED VIBRATING WIRE SETTLEMENT PLATFORMS AS WELL AS DESIGN DRAWINGS OF THE PROPOSED PLATFORM AND CABLING LAYOUT TO ODOT AT LEAST 14 DAYS PRIOR TO CONSTRUCTION.

THE DESIGN DRAWINGS SHOULD ILLUSTRATE THE PROPOSED SETTLEMENT VIBRATING WIRE SETTLEMENT PLATFORM LOCATIONS WITH ALL EXISTING AND PROPOSED SITE FEATURES TO VERIFY THE PROPOSED CABLING WILL NOT CONFLICT WITH EXISTING FACILITIES, PROPOSED FACILITIES OR UTILITIES.

THE CONTRACTOR SHALL IDENTIFY, SET AND MAINTAIN AN APPROPRIATE NUMBER OF FIXED BENCHMARKS, REFERENCE POINTS, ETC. TO FACILITATE THE SURVEYING OF THE SETTLEMENT PLATFORMS.

MATERIALS:

SOUND LUMBER SUCH AS $\frac{3}{4}$ " EXTERIOR GRADE PLYWOOD SHALL BE USED FOR THE BASE. THE PIPE SHALL BE $2-\frac{1}{2}$ " STANDARD BLACK PIPE WITH THREADED FITTINGS AS SHOWN ON THE PLANS. A STEEL PLATE 3'-0"x 3'-0"x $\frac{1}{8}$ " MAY BE SUBSTITUTED FOR THE LUMBER, AT THE CONTRACTOR'S OPTION.

CONSTRUCTION METHODS: THE PLATFORM SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS. IF EXISTING PAVEMENT IS ENCOUNTERED AT THE SPECIFIED LOCATIONS, THE PAVEMENT (INCLUDING ANY BASE MATERIAL) SHALL BE REMOVED AND THE SETTLEMENT PLATFORM SHALL BE SET ON THE EXPOSED SUBGRADE. THE PLATFORM SHALL BE SET ON A LEVEL SURFACE. THE PIPE SHALL BE FIRMLY SECURED TO THE PLATFORM AND SHALL BE MAINTAINED IN A PLUMB POSITION DURING CONSTRUCTION OF THE MSE WALL. THE PIPE SHALL BE MARKED AT INTERVALS TO FACILITATE MEASUREMENT OF THE DEPTH OF FILL.

ITEM SPECIAL - SETTLEMENT PLATFORMS (CONTINUED):

THE CONTRACTOR SHALL PROTECT SETTLEMENT PLATFORMS FROM CONSTRUCTION TRAFFIC/ACTIVITIES USING APPROPRIATE METHODS SUCH AS BARRICADES, CONES, GUARD-STAKES WITH HIGH VISIBILITY RIBBON, ETC. THE CONTRACTOR SHALL STOP WORK IN ANY LOCATION WHERE THE SETTLEMENT PLATFORM HAS BEEN DISTURBED OR DAMAGED. PLATFORMS OR PIPES DAMAGED OR DISPLACED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR PROPER CONDITION.

PRIOR TO PAVING: THE TOP OF THE SETTLEMENT PLATFORM PIPE SHALL BE CUT OFF TWO FEET BELOW THE FINISHED SURFACE OF THE SUBGRADE OR FINISHED GROUND SURFACE. WHICHEVER IS APPLICABLE.

WAITING PERIOD:

SEE PILE DRIVING CONSTRAINTS NOTES FROM STRUCTURE GENERAL NOTES SHEET FOR MORE INFORMATION REGARDING WAITING PERIOD.

METHOD OF MEASUREMENT:

THE DEPARTMENT WILL MEASURE SETTLEMENT PLATFORMS BY THE NUMBER EACH, COMPLETE IN PLACE.

BASIS OF PAYMENT:

THE UNIT PRICE BID FOR ITEM SPECIAL - SETTLEMENT PLATFORM SHALL INCLUDE FURNISHING, CONSTRUCTING, AND MAINTAINING SETTLEMENT PLATFORMS AND OBTAINING SETTLEMENT READINGS AS REQUIRED BY THE PLANS OR AS DIRECTED BY THE ENGINEER.

SETTLEMENT PLATFORMS SHALL BE PLACED AT THE BOTTOM OF THE FILL AT THE LOCATION INDICATED BELOW, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SETTLE	MENT PL/	ATFORM	TABLE
SETTLEMENT PLATE DESIGNATION	ALIGNMENT	STATION	OFFSET
S.P. 1	VALLEY RD.	871+00	Ø
S.P. 2	VALLEY RD.	873+50	Ø
S.P. 3	VALLEY RD.	876+50	ß
S.P. 4	TREBEIN RD.	882+50	B
S.P. 5	TREBEIN RD.	885+00	Ø
S.P. 6	RAMP F	840+00	22.5′ RT
S.P. 7	VALLEY RD.	878+87	30.4′ LT
S.P. 8	VALLEY RD.	878+86	25.6′ RT
S.P. 9	VALLEY RD.	880+81	24.3′ LT
S.P. 10	VALLEY RD.	880+80	25.6' RT
S.P. 11	RAMP E	722+80	4.0' LT
S.P. 12	RAMP E	722+80	18.0′ RT

ITEM SPECIAL - SETTLEMENT PLATFORMS (CONTINUED):



<u>SETTLEMENT PLATFORM</u> NOT TO SCALE

632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MAST ARM POLES, MAST ARMS, CABINET, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26. REMOVED ITEMS SHALL BE DISPOSED OF AND THE FOLLOWING ITEMS STORED ON THE PROJECT FOR SALVAGE BY ODOT IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

ITEM TO BE SALVAGED: CONTROLLER CABINET (AND ALL CONTENTS) UPS RADARS

SALVAGED ITEMS SHALL BE DELIVERED TO THE FACILITY WHOSE ADDRESS IS LISTED BELOW:

ODOT DISTRICT 8 ATTN: JIM JUDD (513-933-6692) 505 SOUTH SR 741 LEBANON, OH 45036

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN ITEM 632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION 1 EACH

PULL BOXES TO BE REMOVED ARE ITEMIZED SEPARATELY AND PAID FOR UNDER ITEM 625 PULL BOX REMOVED. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 625 PULL BOX REMOVED 7 EACH

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625 MEDIAN JUNCTION BOX	ULATED CKED
THE CONTACTOR SHALL INSTALL MEDIAN JUNCTION BOXES PER SCD HL-30.41 AT THE FOLLOWING LOCATIONS:	CALC
LOCATIONS US 35 MEDAIN BARRIER: US 35 STA. 326+00 US 35 STA. 330+00 US 35 STA. 331+00 US 35 STA. 331+00 US 35 STA. 349+00 US 35 STA. 349+00 US 35 STA. 357+00 US 35 STA. 357+00 US 35 STA. 329+75 PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN ITEM 625 MEDIAN JUNCTION BOX. THE FOLLOWING OUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY. ITEM 625 MEDIAN JUNCTION BOX II EACH	GENERAL NOTES
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SEE			GRAND	ITEM			PART.	1				JM.	EET NU	SHI			
SHEET NO.	DESCRIPTION	UNIT	TOTAL	EXT	ITEM	03/NHS/BR	J2/NHS/BR	01/NHS/OT	Office Calcs.	602	195	189		187	186	185	
	ROADWAY							\square								_	
	CLEARING AND GRUBBING		LS	11000	201			LS									
32		ev	64 910	23001	202			61 910	l							64 886	_
32	CONCRETE MEDIAN REMOVED	SY	769	30600	202			769	 							769	
	PIPE REMOVED, 24" AND UNDER	FT	1,725	35100	202			1,725								1,725	
	PIPE REMOVED, OVER 24"	FT	129	35200	202			129	µ]			39				90	
	GUARDRAIL REIVIOVED	FI	5,485	38000	202			5,485	il							5,485	
	GUARDRAIL REMOVED, BARRIER DESIGN	FT	9,132	38300	202			9,132								9,132	
		EACH	8	47800	202			8	l							8	
	BUILDING DEMOLISHED. GRAIN SILO	EACH	1	56100	202			1	ļ							1	
	CATCH BASIN REMOVED	EACH	11	58100	202			11								11	
		FACH	6	58200	202			6								6	
	FENCE REMOVED	FT	15,096	75000	202			15,096	[]	15,096							1
	GATE REMOVED	EACH	3	75250	202			3		3							
	REMOVAL MISC: SEPTIC TANK AND LEACH FIELD		1	98100	202]]					T		1	\square
			2	30100	202				[]								1
	REMOVAL MISC.: PRIVATE WOODEN SIGN	EACH	2	98100	202			2	[]							2	
	REMOVAL MISC.: CONCRETE BUMPER BLOCKS	EACH	9	98100	202			9								9	
	REMOVAL MISC.: CONCRETE FOUNDATION REMOVAL MISC.: ROCK CHANNEL PROTECTION	SY	2	98300	202			2	l							2	
	ABANDON MISC.: PIPE 24" AND UNDER	FT	10	98700	202			10								10	
			24 836	10000	203			24.836						24 705		131	
32	EXCAVATION EXCAVATION, AS PER PLAN (VERTICAL SIDES ONLY)	CY	1,479	10000	203			1,479	[]		1,479			24,703		151	
	EMBANKMENT	CY	230,568	20000	203			230,568			84			227,731		2,753	
32	EMBANKMENT, AS PER PLAN	CY FACH	6,586 12	20001	203 SPECIAL			6,586	6,586								
		LAGIT	12	20303000				12	[]								
	SUBGRADE COMPACTION	SY	4,224	10000	204			4,224	4,224								
	EXCAVATION OF SUBGRADE	CY	162	13000	204			162	162								
	PROOF ROLLING	HOUR	57	45000	204			57	102								
	GEOTEXTILE FABRIC	SY	2,517	50000	204			2,517	2,517								
	CEMENT	TON	2 764	10500	206			2 764	2 764								
	CURING COAT	SY	106,793	11000	206			106,793	106,793								
	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	SY	106,793	15010	206			106,793	106,793								
30	MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS AS PER PLAN			30000	206											-	-
	GUARDRAIL, TYPE MGS	FT	12,175.5	15050	606			12,175.5							12,175.5		
		FT	6,462	15100	606			6,462							6,462		
	FLARED END SECTION	EACH	2,800	20000	606			2,800							2,800		
	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	EACH	12	26150	606			12							12		
		FACH	1/	26550	606			14	il						1/		
	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	EACH	5	35002	606			5							5		
		EACH	5	35102	606			5							5		
	IMPACT A LIENUATOR, TYPE 2 (UNIDIRECTIONAL), SPEED = 60 MPH, HAZARD = 24"	EACH FACH	1	60022 60028	606									1	3		
	FENCE, TYPE 47	FT	16,057	15000	607			16,057]	16,057							
— <u> </u>	FENCE REMOVED AND REBUILT	FT	7	35000	607			7	l	7							1
																	1
	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	FT FT	2,785	10100	622			2,785	l					2,785			
32	CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN	FT	40	10120	622			40	ił					40			1
	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	FT	862	10160	622			862		-				862			
32	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN A	FT	94	10161	622			94	i!					94			
32	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN B	FT	156	<u>1</u> 0161	622			156						156			
	CONCRETE BARRIER END SECTION, TYPE B	EACH	1	24840	622			1	[]					1			
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1 FT WET REFLECTIVE EPOXY PAVEMENT MARKING	0.69	12010	807			0.69		0.69									
	1	12110	807			1		1									
7.7 MILE WET REFLECTIVE SPRAY THERMOPLASTIC PA	7.7	13010	807			7.7		7.7									
3.4 MILE WET REFLECTIVE SPRAY THERMOPLASTIC PA	3.4	13110	807			3.4		3.4									
4,389 FT WET REFLECTIVE SPRAY THERMOPLASTIC PA	4,389	13310	807			4,389		4,389									
3,362 FT WETREFLECTIVE SPRAY THERMOPLASTIC PA	3,362	13410	807			3,362		3,362									
10.62 MILE GROOVING FOR 6" RECESSED PAVEMENT MA	10.62	10010	850			10.62		10.62									
3,592 FT GROOVING FOR 6" RECESSED PAVEMENT MA	3,592	10110	850			3,592		3,592									
4,370 FT GROOVING FOR 12" RECESSED PAVEMENT M	4,370	10130	850			4,370		4,370									
1.21 MILE GROOVING FOR 6" RECESSED PAVEMENT MA	1.21	20010	850			1.21		1.21									
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FOR RETAINING WALL GENERAL SUMMARY																	
FOR US 35 OVER FLOOD PLAIN RELIEF DITCH																	
STRUCTURE 20 FOO																	
FOR US 35 OVER TRIBUTARY TO LITTLE MIAMI																	
STRUCTURE OVE																	
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FOR VALLEY/TREBEIN ROAD OVER US 35 GEN																	
MAINT																	
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		26500	606														
	· · ·	20000	000			3									3		
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	3					2,000						-					
	3 2,000 2,412	11630	614			2,000									2,412		
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DESCRIPTION	SHEET		
	NO.		
DREERECTION, TYPE TC-12.30			
D DISPOSAL, TYPE TC-15.115			
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G, EDGE LINE, 6"			4
G, LANE LINE, 6" G. DOTTED LINE, 6"			
AVEMENT MARKING, EDGE LINE, 6"			5
VEMENT MARKING, LANE LINE, 6"			
VEMENT MARKING, CHANNELIZING LINE, 12			
RKING, (ASPHALT)			
ARKING (ASPHALT)			
RKING, (CONCRETE)			
RAFFIC SIGNALS			
LLS (RW-01, RW-02A & RW-02B)	451		
IPORARY RETAINING WALL NOS. 1 & 2)			
SUMMARY	473		
GENERAL SUMMARY	524		
T SPAN AND UNDER (GRE-035-0654)	024		
RIVER GENERAL SUMMARY	529		<u>~</u>
ER 20 FOOT SPAN (GRE-035-0614)	532		ó
R 20 FOOT SPAN (GRE-035-0610)	552	I 1	പ്പ
RAL SUMMARY	541		ĭ
R 20 FOOT SPAN (GRE-035-0627)	575		ດ ທ
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TENANCE OF TRAFFIC		(ທ
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CAR FOR ASSISTANCE		2	5
AND LESS THAN 36" WIDE HAZARDS. (UNIDIRECTIONAL)			
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RI	EF.	SHEET NO.	ST	ATION	SIDE	CURB, TYPE 4-C	CONCRETE MEDIAN, 6"		LOC	CATION		STATIO	N	SEEDING AND MULCHING			LOC	ATION		SI	ATION		EXCAVATION	EMBANKMENT	CALCULA JALA OYBS
			FROM	ТО		FT	СҮ				FRO	м	то	SY		_				FROM		то	СҮ	CY	
	2-1	213	302+65.00	IS 35	17	2035.03				US 35	273+67.	00	275+82.00	940			US	\$ 35		289+00.00	391	+00.00	37880	16248	1
	2-2	213	302+65.00	323+00.03	RT	2035.03				US 35 US 35	287+02.	00	302+65.00	3150 48220			RA	MP F		719+69.00	730)+42 44	730	20463	-1
	2-3 2-4	217	320+20.25 323+11.88	323+30.03	LT RT	309.78			TRE	BEINRD	880+69.	00	898+00.00	58150						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	2-5	218	325+85.20	325+92.95	RT	7.75				LEY RD US 35	859+51. 343+93	00	879+60.00 365+10.00	<u> </u>			RAI	MP F		831+56.47	842	2+59.94	2234	20463	-11
	2-6 2-7	227 227	359+80.00 359+80.00	359+98.15	LT RT	18.15 18.15				US 35	359+80.	00	365+73.00	770			RAI	MP G		933+34.65	943	8+49.70	987	9562	
		/				10.10				US 35	365+85.	00	392+73.00	6230	_		RA	MP H		1031+28 96	104	3+41.08	1247	32116	≻
			RA	AMPE	-												,,,,,			1001-20.00		0141.00	1211	02770	l e
C	-20	244	722+42.00	722+58.75	LT	16.75			1							_	VALLEY RD.	TREBEIN RI	D.	862+00.00	897	7+90.97	9064	154610	
	-21	244	722+32.00	722+58.75	RT	26.75 18.15										GLI	ENN THOMPS	SONACCES	S DR.	7+50.00	10	+72.00	197	1216	
		210	720,00.02	120-12:01		10.10			1								FATVALLEY	(RD 869+02	36 I T	1+00.00	.3+	-50.00	51	1216	∥ 5
			RA	AMPF	_													TLD: 003102		1100.00		50.00	51	1210	l S
5	-24	250	839+22.55	842+39.78	LT		35.5		1																11 5
																		ITEM 204 E	XCAVATION	I OF SUBGRA	DE		216		S I
S C C			VALL	EY ROAD					1									ITEM 204 GF ITEM 204 E	RANULAR MA MBANKMEN	ATERIAL, TYP T. AS PER PL	PE C AN			-323 -6586	
	-30 -31	360 360	878+45.37 878+44.95	878+65.37 878+63.10	LT RT	20.00			тот	ALS CARE	RIED TO G	ENERAL	SUMMARY	282260											 Ì
																	EXI	STING PAVI (AV	EMENT REM G. THICKNE	OVAL ADJUS 'SS 1.29')	TMENT				l ≥
- Sec									-									64886 S	Y = (64886*9)) = 583974 SF			-27901		
5																		(5837	4*1.29)/27 =	27901 CY					
ositio	то	TALS	CARRIED TO G	ENERAL SUMMA	RY	4542	35.5																	000/	
duo									-									MSE WA	LL ADJUSTA	MENT (RW-01) MENT (RW-02)				-2981 -18273	
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'nam																	ΤΟΤΑ	LS CARR	IED TO GE	ENERAL SU	JMMARY		24705	227731]
						606		622	622	622	622	622	622	622	622	622	622	622	622		626	626	626	626	
'8i_Half_BW.pen ProjectWis. N BB	F. S).	HEET NO.	STA	TION	SIDE	IMPACT ATTENUATOR, TYPE 2 (UNIDIRECTIONAL) SPEED = 60,MPH, HAZARD = 24"		CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	CONCRETE BARRIER, SINGLE SLOPE, TYPE C	CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN A	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN A	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN B	CONCRETE BARRIER END SECTION, TYPE B	CONCRETE BARRIER END SECTION, TYPE B1	CONCRETE BARRIER END SECTION, TYPE D	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D		BARRIER REFLECTOR, TYPE 1, ONE-WAY (WHITE)	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL (YELLOW/YELLOW)	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL (YELLOW/RED)	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL (MHITE/RED)	
			<u>FROM</u> US	35		EACH		FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH		EACH	EACH	EACH	EACH	
о В-	1	218	323+00.03	323+30.03	CL										1							4			- m
о В-2	2	218	325+85.20	325+85.20 359+80.00	CL			2785							1		28					8 70			မိ
≥ B -:	3	218	325+85.20	342+80.00	LT	1			205	40	862	94.2	155.2	1				4	14		18		5		<u>י</u> ח
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REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS SBR-1-13 DATED 07-20-18

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS

800	DATED	05-02-22
840	DATED	04-15-22
878	DATED	01-21-22

DESIGN SPECIFICATIONS

THIS STRUCTURES CONFORM TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 8TH EDITION, 2017, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

CONCRETE CLASS OCI - COMPRESSIVE STRENGTH 4.0 KSI (COPING & LEVELING PAD) CONCRETE CLASS OC2 - COMPRESSIVE STRENGTH 4.5 KSI (PARAPET & MOMENT SLAB) REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI (ALL REINFORCING SHALL BE EPOXY COATED)

PROPRIETARY RETAINING WALL DATA

THE PROPRIETARY WALL SUPPLIER SHALL DESIGN THE INTERNAL STABILITY OF A MECHANICALLY STABILIZED EARTH (MSE) WALL IN ACCORDANCE WITH SS840 TO SUPPORT THE (MSE) WALL IN ACCORDANCE WITH SS840 TO SUPPORT THE ABUTMENT. THE DESIGN FOR INTERNAL STABILITY SHALL INCLUDE A NOMINAL (i.e. UNFACTORED) HORIZONTAL STRIP LOAD DUE TO FRICTION (FR) FROM THE SUPERSTRUCTURES LISTED IN TABLE ON THIS SHEET, K/FT APPLIED PERPENDICULAR TO THE FACE OF WALL AT BASE OF THE CONCRETE FOOTING. THIS STRIP LOAD DOES NOT INCLUDE EARTH REFERENCE LOADS FROM ADUTMENT PACKET INCLUDE EARTH PRESSURE LOADS FROM ABUTMENT BACKFILL. HOWEVER, THE PROPRIETARY WALL SUPPLIER SHALL INCLUDE EARTH PRESSURE LOADS FROM ABUTMENT BACKFILL IN THE DESIGN CALCULATIONS.

BRIDGE SUPERSTRUCTURE LOADINGS										
MSE WALL	BRIDGE NO.	LOCATION	HORIZ. LOAD (K/FT)							
RW-01	GRE-035-0627	REAR ABUT.	0.73							
<i>R₩-02</i>	GRE-035-0627	FWD. ABUT.	0.76							

FOUNDATION BEARING RESISTANCE

THE FACTORED BEARING RESISTANCE AT THE BASE OF THE REINFORCED SOIL MASS FOR EACH WALL IS LISTED BELOW:

FACTORED BEARING RESISTANCE											
MSE	WALL LI	FBR									
WALL	FROM STA.	TO STA.	(PSF)								
RW-01	78+11.00	79+93.00	9.17								
<i>RW-02A</i>	23+34.00	25+83.58	12.67								
	26+84.48	29+10.00	12.67								
DW_02B	29+10.00	31+50.00	10.63								
N N -02D	31+31.00	36+00.00	6.57								
	36+00.00	39+07.00	4.76								

ITEM 511, CLASS OC2 CONCRETE, MISC.: MOMENT SLAB AND PARAPET

ALL MATERIAL, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND PLACE CONCRETE FOR THE MOMENT SLAB AND PARAPETS ON MOMENT SLABS ALONG MSE WALL RW-02 SHALL BE INCLUDED FOR PAYMENT WITH ITEM 511, CLASS QC2 CONCRETE, MISC.: MOMENT SLAB AND PARAPET. PAYMENT FOR THIS ITEM SHALL INCLUDE ALL JOINT MATERIALS AND BOND BREAKERS IN CONTACT WITH THE MOMENT SLAB. ALL REINFORCING IN MOMENT SLAB AND PARAPETS ON TOP OF MOMENT SLAB SHALL BE INCLUDED WITH ITEM 509, EPOXY COATED REINFORCING STEEL FOR PAYMENT.

ITEM 840, FOUNDATION PREPARATION, AS PER PLAN

BACKFILL THE FOUNDATION PREPARATION EXCAVATION TO WITHIN 12" OF THE LEVELING PAD BOTTOM WITH NO. 2 CRUSHED CARBONATE STONE.

THE TOP 12 OF THE FOUNDATION PREPARATION IS TO CONSIST OF GRANULAR MATERIAL, TYPE C. BOTH THE NO. 2 STONE AND GRANULAR MATERIAL, TYPE C ARE TO BE COMPRISED OF CRUSHED CARBONATE STÓNE. PLACE AND COMPACT BOTH MATERIALS PER ITEM 203.

ALL OTHER ITEMS OUTLINED IN SS840 FOR FOUNDATION PREPARATION APPLY.

MINIMUM SOIL REINFORCEMENT LENGTHS

PROVIDE STRAP LENGTHS IN ACCORDANCE WITH SS840 AND AS OUTLINED IN THE TABLE BELOW:

MIIN.	IMUM SOIL REIN	FORCEMENT LI	ENGTHS
MSE	WALL LI	IMITS	MIN. STRAP
WALL	FROM STA.	TO STA.	LENGTH
	78+11.00	78+16.77	8.00'
	78+16.77	78+26.77	12.00'
	78+26.77	78+46.77	17.00′
RW-01	78+46.77	79+66.77	28.00'
	79+66.77	79+76.77	15.00′
	79+76.77	79+86.77	11.00′
	79+86.77	79+93.00	8.00′
	23+34.00	23+45.00	12.00'
	23+45.00	23+55.00	15.00'
	23+55.00	23+65.00	16.00′
RW-02A	23+65.00	24+50.00	15.00'
	24+50.00	25+25.00	14.00′
	25+25.00	25+83.58	13.00'
	26+84.48	27+50.00	14.00'
	27+50.00	28+25.00	15.00'
	28+25.00	29+00.00	17.00′
	29+00.00	29+80.00	18.00'
	29+80.00	30+20.00	19.00′
	30+20.00	31+40.00	31.00'
	31+40.00	31+80.00	20.00'
	31+80.00	32+20.00	19.00'
	32+20.00	33+10.00	18.00'
	33+10.00	33+60.00	17.00′
RW-02B	33+60.00	34+00.00	16.00′
	34+00.00	34+40.00	15.00'
	34+40.00	34+70.00	14.00′
	34+70.00	35+00.00	13.00'
	35+00.00	35+30.00	12.00'
[35+30.00	35+70.00	11.00'
	35+70.00	36+00.00	10.00'
	36+00.00	36+40.00	9.00'
	36+40.00	36+80.00	8.00'
	36+80.00	39+07.01	8.00'

ITEM 503, COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

THE WORK SHALL BE IN ACCORDANCE WITH ITEM 503, EXCEPT THAT STEEL SHEET PILING SATISFYING THE MINIMUM SECTION AND MATERIAL PROPERTIES LISTED BELOW SHALL BE USED.

INIMUM SECTION MODULUS:	48.5 IN³/F
TRUCTURAL STEEL:	A 709
INIMUM YIELD STRENGTH:	50 KSI
INIMUM EMBEDMENT DEPTH:	17.0 FT
AXIMUM RETAINED HEIGHT:	12.0 FT
STIMATED WALL LENGTH:	120.0 FT

STATION LIMITS: RW-02B STA. 31+30.00 TO 32+50.00

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS A REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE RW-02B. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN IN THE PLANS OR PREPARE AN ALTERNATE DESIGN, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH CMS 501.05.

PART.	ESTIMATED QUANTITIES								
02/NHS/BR	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	RW-01	<i>RW-02A</i>	<i>R₩-02B</i>	SHEE T
1841	203	20000	1841	CY	EMBANKMENT	603	210	1028	
1672	203	35110	1672	СҮ	GRANULAR MATERIAL, TYPE B	749		923	
						\sim	m		
45~	503	11100	\sim	\sim	COFFERDAMS AND EXCLUSATION BRACING	LS	LS	\sim	\sim
LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN			LS	2/23
μ	\mathcal{S}	$\overline{\ldots}$	\mathcal{S}	Los		\mathcal{L}	$\overline{\mathbf{x}}$	5	\mathcal{I}
96418	509	10000	96418		EPOXY COATED REINFORCING STEEL		16347	80071	
				СҮ					
847	511	53012	847		CLASS QC2 CONCRETE, MISC.: MOMENT SLAB AND PARAPET		138	709	2/23
				SY					
4123	512	10100	4123		SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	482	617	3024	
				SF					
2945	516	13900	2945		2" PREFORMED EXPANSION JOINT FILLER		499	2446	
				SF					
30633	840	20000	30633	СҮ	MECHANICALLY STABILIZED EARTH WALL	2831	5035	22767	
11137	840	21000	11137	SY	WALL EXCAVATION	1284	1670	8183	
3852	840	22001	3852	СҮ	FOUNDATION PREPARATION, AS PER PLAN	534	563	2755	2/23
21254	840	23000	21254	СҮ	SELECT GRANULAR BACKFILL	2981	3098	15175	
58	840	23050	58		NATURAL SOIL	58			
				FT					
3435	840	25010	3435	FT	6" DRAINAGE PIPE, PERFORATED	383	550	2502	
128	840	25020	128	FT	6" DRAINAGE PIPE, NON-PERFORATED	5	9	114	
1661	840	26000	1661	DAY	CONCRETE COPING	188	250	1223	
7	840	27000	7		ON-SITE ASSISTANCE	1	1	5	

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DESIGN AGENCY	JACOBS	1880 WAYCROSS ROAD	CINCINNATI, OHIO 45240			
WED DATE	W 9/19	CTURE FILE NUMBER				
DRAWN REVIE	MME FE	REVISED STRU				
DESIGNED	JTC	CHECKED R	ЕJ			
	3 DETAINING WALL CENEDAL NOTES & ESTIMATED OLIANTI	RETAINING WALL GENERAL NOTES & ESTIMATED GOANT				
GRE-US 35-5.63 PID No. 107217						
2 /23 451 698						



Image: Normal Section of the	- S2	TA. 29+34.07 0.46' LT.	NOTES: 1. FOR RW SEE SH	∀-02B NO EET 4.	TES AND LEGE	ND,	DESIGN ACENEY JACOBS 1880 WAYCROSS ROAD 1880 WAYCROSS ROAD CINCINNATI: OHIO 45240
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BID No. 107217 BOL NO	TA. 29+40.00 797.6 7 7		830	G H J	WALL STA. 28+10.00 28+40.00 29+00.00	ELEV. 795.50 795.00 794.50	PLA Retai STA. 2744
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	MATCH LINE RU-02B STA. 31+40.00 SEE SHEET 10				DESIGNED DRAWN REVIEWED DATE JTC MME FBW 9/19 CHECKED REVISED STRUCTURE FILE NUMBER
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	INE RW-02B STA. 31+ SEE SHEET 10		820 810		63
795.48 66	ELEV. 78 BOT. OF	35.00 FOUNDATI	800 790 0N PREP 780	<u>-</u>	645 645 - 107217 642 - US 35 - 5.(



•	NOTES 1. FOR SEE	RW -02 NOTES AND LEGEND, SHEET 4.	DESIGN AGENCY JACOBS 1880 WAYCROSS ROAD CINCINNATI. OHIO 45240
MATCH LINE RW-02B STA. 33+40.00 SEE SHEET II			DESIGNED DRAWN REVIEWED DATE JTC MME FBW 9/19 CHECKED REVISED STRUCTURE FILE NUMBER EJ
<i>BIE.29</i>			AND PROFILE ING WALL RW-02B 0 TO STA. 33+40.00
A. 33+40.00	830	TOP OF LEVELING PAD POINT WALL STA. ELEV. N 31+70.00 792.50 P 32+40.00 792.00 Q 33+10.00 791.50	PLAN A MSE RETAIN STA. 31+40.00
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ELEN BOT	790 7. 780.50 . OF FOUNDATION PR 780	REP.	GRE-US 35-5 PID No. 10721
192.01			10/23 (459) 698



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ITEM 511, CLASS OC2 CONCRETE WTIH OC/OA, BRIDGE DECK, AS PER PLAN

THIS ITEM MODIFIES THE STANDARD 511 CONCRETE FOR STRUCTURES SPECIFICATION TO INCLUDE CORROSION INHIBITORS INTO THE SUPERSTRUCTURE CONCRETE. THIS ITEM SHALL CONFORM TO CMS 511 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

PORTLAND CEMENT CONCRETE	499.03, CLASS QC 2 MEETING A DESIGN
	STRENGTH OF 4,500
CORROSION INHIBITOR	515.15

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THE CLASS OC2 CONCRETE FOR THE SUPERSTRUCTURE SHALL MEET THE FOLLOWING CRITERIA: WATER/CEMENT RATIO = 0.40 MAXIMUM

MIX SHALL INCLUDE A MIGRATING CORROSION INHIBITOR AS MANUFACTURED BY AN APPROVED SUPPLIER LISTED ON ODOT'S QUALIFIED APPROVED SUPPLIERS, ITEM 515.15. THE DOSAGE RATE LISTED ON THE ODOT QUALIFIED APPROVED SUPPLIERS LIST WILL APPLY.

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR AND ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CORROSION INHIBITOR IS SUGGESTED TO BE A MCI PRODUCT BY CORTEC OR AN APPROVED EOUAL FROM THE OUALIFIED PRODUCTS LIST. THE CONCRETE SUPPLIER'S CHOICE OF ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING DESIGN REOUIREMENTS. PLEASE BE ADVISED THAT SOME PRODUCTS ON THE LIST EFFECT THE DELIVERED MIX PROPERTIES GREATLY WHILE OTHER PRODUCTS DO NOT.

APPROACH SLABS AND DIAPHRAGMS ARE TO USE THE SAME MIX DESIGN AS THE BRIDGE DECK. THE CONTRACTOR SHOULD BE ADVISED THAT CONCRETE RETARDING AGENTS MAY NEED TO BE ADDED TO OFFSET THE EFFECTS OF THE MIGRATING CORROSION INHIBITOR SELECTED.

THE CONTRACTOR SHALL PROVIDE TRADITIONAL BRIDGE DECK FORMS CONFORMING TO CMS 508. PERMANENT STAY-IN-PLACE (SIP) FORMS ARE NOT ALLOWED. THE PLACING OF THE DECK AND THE APPROACH SLABS IN THE SAME CONCRETE POUR IS NOT PERMITTED.

ITEM 511, CLASS OC2 CONCRETE WTIH OC/OA, BRIDGE DECK (PARAPET), AS PER PLAN

THIS ITEM MODIFIES THE STANDARD 511 CONCRETE FOR STRUCTURES SPECIFICATION TO INCLUDE MACRO-SYNTHETIC FIBERS, AND CORROSION INHIBITORS INTO THE SUPERSTRUCTURE CONCRETE. THIS ITEM SHALL CONFORM TO CMS 511 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

PROVIDE MATERIALS CONFORMING TO 511.02 EXCEPT AS MODIFIED BELOW:

	PORTLAND CEMENT CONCRETE	499.03, CLASS OC 2 MEETING A DESIGN STRENGTH OF 4,500 PSI_WITH MACRO-
		SYNTHETIC FIBERS WITH MODIFICATION
AM	FIBERS FOR CONCRETE CORROSION INHIBITOR	ASTM C 1116, TYPE 111 515.15

THE CLASS OC2 CONCRETE FOR THE SUPERSTRUCTURE SHALL MEET THE FOLLOWING CRITERIA:

WATER/CEMENT RATIO = 0.40 MAXIMUM; MINIMUM 5 LBS/CY MACRO-SYNTHETIC FIBERS (1.5 IN. MIN. TO 2.5 IN. MAX.) MEETING ASTM CIII6 TYPE III SHALL BE ADDED TO THE MIX.

MIX SHALL INCLUDE A MIGRATING CORROSION INHIBITOR AS MANUFACTURED BY AN APPROVED SUPPLIER LISTED ON ODOT'S OUALIFIED APPROVED SUPPLIERS, ITEM 515.15. THE DOSAGE RATE LISTED ON THE ODOT OUALIFIED APPROVED SUPPLIERS LIST WILL APPLY.

ITEM 511, CLASS OC2 CONCRETE WTIH OC/OA, BRIDGE DECK (PARAPET), AS PER PLAN, CONT'D.

THE MACRO-SYNTHETIC FIBERS SHALL BE INCORPORATED INTO THE MIX IN SUCH A WAY THAT NO 'BALLING' OCCURS. UPON INSPECTION OF THE MIX AT THE TIME OF PLACEMENT, IF ANY 'BALLING' OCCURS, THE ENGINEER SHALL REJECT THE REMAINDER OF THE LOAD AT ANY TIME DURING THE POUR. IT IS IMPORTANT TO FOLLOW INDUSTRY STANDARDS AND ASTM SPECIFICATIONS ON THE PREMIXING OF THE CEMENT, AGGREGATE, AND MACRO-SYNTHETIC FIBERS PRIOR TO THE ADDITION OF WATER AND ADMIXTURES. PROVIDE MACRO-SYNTHETIC FIBERS THAT ARE MONOFILAMENT FIBERS MADE FROM VIRGIN POLYPROPYLENE, POLYETHYLENE, OR CO-POLYMERS THAT ARE INERT TO ALKALI ATTACK. ENSURE THE MACRO-SYNTHETIC FIBERS HAVE A MINIMUM TENSILE STRENGTH OF TO KSI, A MINIMUM MODULUS OF ELASTICITY OF 800 KSI, A MINIMUM FILAMENT DIAMETER OF 0.012 INCHES, AND ASPECT RATIO BETWEEN 60 AND 100, AND ARE BETWEEN 1.0 AND 2.5 INCHES IN LENGTH. STORE THE MACRO-SYNTHETIC FIBERS ACCORDING TO THE MANUFACTURER'S RECOMMENDATION AND KEEP THE MATERIAL FREE FROM DUST, DIRT AND MOISTURE. PLACING THE BAG THAT THE FIBERS COME IN INTO THE CONCRETE MIX IS NOT PERMITTED.

USE A MINIMUM DOSAGE RATE OF MACRO-SYNTHETIC FIBERS OF 5.0 LBS/CY OF CONCRETE. ENSURE THE FINAL PROPOSED MIX IS WORKABLE AND ABLE TO BE PRODUCED SUCH THAT BALLING OR CLUMPING OF THE FIBERS IS NOT A PROBLEM AS DETERMINED BY THE ENGINEER. BEFORE USE, SUBMIT DOCUMENTATION TO THE PROJECT ENGINEER CERTIFYING BOTH THE MACRO-SYNTHETIC FIBERS AND THE MIX MEET OR EXCEED THE REQUIRED PROPERTIES. SAMPLING WILL BE ALLOWED FOR TESTING PURPOSES. A DEMONSTRATION OF THE MIX PRODUCTION OR TRIAL MIX, MAY BE REQUIRED BY THE ENGINEER PRIOR TO PLACING ANY OF THE MIX ON THE PROJECT.

THE BATCH WEIGHTS SHALL BE CORRECTED TO COMPENSATE FOR THE MOISTURE CONTAINED IN THE AGGREGATE AT THE TIME OF USE. A CHEMICAL ADMIXTURE (705.12, TYPE A OR D) SHALL BE USED. THE TRANSIT MIXER CHARGE SHALL BE LIMITED TO3#40F ITS RATED CAPACITY OR 6 CUBIC YARDS, WHICHEVER IS SMALLER. THE FIRST THREE TRANSIT MIXER LOADS ARE REQUIRED TO BE AT THE MINIMUM YARDAGE LISTED ABOVE TO SHOW PROOF OF THE SUCCESSFUL BATCHING OPERATION. AFTER CONSISTENCY IN THE DELIVERED MATERIAL HAS BEEN ESTABLISHED, THE CONCRETE SUPPLIER MAY INCREASE THE BATCH DELIVERED OUANTITIES AS LONG AS THE QUALITY REMAINS ACCEPTABLE TO THE ENGINEER. THE ENGINEER CAN REDUCE THE BATCH LOAD SIZE AT ANY TIME AS NEEDED TO CORRECT/IMPROVE CONCRETE QUALITY.

CONCRETE SUPPLIERS SHOULD RECOGNIZE THAT THE CORROSION INHIBITOR AND ADMIXTURES MAY HAVE AN EFFECT ON STRENGTH, ENTRAINED AIR CONTENT, WORKABILITY, ETC. OF THEIR CONCRETE MIXES. THE CORROSION INHIBITOR IS SUGGESTED TO BE A MCI PRODUCT BY CORTEC OR AN APPROVED EQUAL FROM THE OUALIFIED PRODUCTS LIST. THE CONCRETE SUPPLIER'S CHOICE OF ONE OF THESE CORROSION INHIBITORS DOES NOT ALLEVIATE MEETING DESIGN REQUIREMENTS. PLEASE BE ADVISEDTHAT SOME PRODUCTS ON THE LIST EFFECT THE DELIVERED MIX PROPERTIES GREATLY WHILE OTHER PRODUCTS DO NOT.

THE CONTRACTOR SHOULD BE ADVISED THAT CONCRETE RETARDING AGENTS MAY NEED TO BE ADDED TO OFFSET THE EFFECTS OF THE MIGRATING CORROSION INHIBITOR SELECTED. THIS SPECIFICATION IS INTENDED FOR USE ON NON DECORATIVE BRIDGE RAILING. USE SELF-COMPACTING CONCRETE ON DECORATIVE RAILING SIMILAR TO TEXAS RAILING AND MACRO-SYNTHETIC CONCRETE PER THIS SPECIFICATION ON TRADITIONAL CONCRETE RAILING WHEN APPLICABLE.

ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

DUE TO THE RECENT SUPPLY SHORTAGES, THE DEPARTMENT HAS BEEN MADE AWARE OF DIFFICULTIES THAT SUPPLIERS ARE HAVING IN OBTAINING THE NECESSARY MATERIALS FOR EPOXY. ON THIS PROJECT THE CONTRACTOR CAN USE TRADITIONAL EPOXY-URETHANE SEALERS APPROVED ON THE OPL OR ELECT TO SUBSTITUTE BRIDGE COTE XL-70 W/SILANE THAT IS LISTED ON THE APPROVED NOISE SUPPLIER LIST UNDER APPROVED SEALERS FOR NOISE BARRIERS. APPROVED SEALERS FOR NOISE SUPPLIERS.

IF BRIDGE COTE XL-70 W/SILANE IS CHOSEN, MEET THE REQUIREMENTS OF THE BRIDGE COTE XL-70 W/SILANE TECHNICAL DATA SHEET WITH THE EXCEPTION OF THE SURFACE PREPARATION THAT WILL STILL FOLLOW THE REQUIREMENTS LISTED UNDER C&MS 512 FOR EPOXY URETHANE SEALERS.

PART.					ES
02/NHS/BR	ITEM	EXT.	TOTAL	UNIT	DESCRIPTION
LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING
LS	503	21300	LS		UNCLASSIFIED EXCAVATION
LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION
7010	507	00600	7010	FT	14" CAST-IN-PLACE REINFORCED CONCRETE P.
7450	507	00650	7450	FT	14" CAST-IN-PLACE REINFORCED CONCRETE P.
198337	509	26000	198337	LB	GALVANIZED STEEL REINFORCEMENT
Λ	511	33500	Λ	EACH	SEMI-INTECEAL DIADUDACH CUIDE
1/2	511	33500	1/10	CV	CLASS OC2 CONCRETE WITH OC COA SURERS
140	511	74412	140		CLASS OLZ CONCRETE WITH OLYDA, SUFERST
430	511	34441	30		CLASS OC2 CONCRETE WITH OCTOA, BRIDGE
30	511	24451	30		CLASS QUZ CONCRETE WITH QUYUA, BRIDGE
70	511	41012	70		CLASS OCT CONCRETE WITH OCTOA, PIER ABO
252	511	43512	252	CY	CLASS OCI CONCRETE WITH OC/OA. ABUTMEN
63	511	46512	63	CY	CLASS QCI CONCRETE WITH QC/QA. FOOTING
97	511	51510	97	CY	CLASS QC2 CONCRETE, SIDEWALK
682	512	10101	682	SY	SEALING OF CONCRETE SURFACES (EPOXY-UR
0		15.110	0	FACU	DRADED STRAND RESTRESSED CONCRETE DR
8	515	15110	8	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRI
				5.00	LEVEL 3, TYPE WF60-49 (104'-9" LONG)
8	515	15110	8	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRI
					LEVEL 3, TYPE WF60-49 (73'-0" LONG)
28	515	20000	28	EACH	INTERMEDIATE DIAPHRAGMS
10	516	13600	10	SE	1" REFEARMED EXPANSION JOINT EILLER
10	510	17000	10		
101	5/6	13900	101	SF	2" PREFORMED EXPANSION JOINT FILLER
204	5/6	14020	204	FI	SEMI-INTEGRAL ABUTMENT EXPANSION JUINT
8	5/6	44101	8	EACH	ELASTOMERIL BEARING WITH INTERNAL LAMIN
0	516	11101	0	EACH	ELASTOMEDIC READING WITH INTERNAL LAMIN
0	510	44101	0	EACH	(NEODENE) AS DED DI AN (14" × 19.5" × 2.5"
16	516	11101	16	EACH	ELASTOMERIC REARING WITH INTERNAL LAMIN
10	510	44101	10	LACH	(NEOPRENE). AS PER PLAN (14" × 19.5" × 2.5)
206	517	75120	206	FT	RAILING (CONCRETE PARAPET WITH TWIN STE
7	E 10	10701	7	FACU	
3	518	12301	3	EACH	SLUPPERS, INLLUDING SUPPORTS, AS PER PL
213	518	40000	213	FI	6" PERFORATED CORRUGATED PLASTIC PIPE
54	518	40010	• 54		6 NON-PERFORATED CORRUGATED PEASTIC
57	518	5/10/	57	F /	8" PIPE DOWNSPOUL, INCLUDING SPECIALS, A
44	518	51201	44	F/	PIPE DOWNSPOUL, INCLUDING SPECIALS, AS I
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6	523	20000	6	EACH	DINAMIC LOAD TESTING
0	525	20500	0	EALA	
561	526	30011	561	SY	REINFORCED CONCRETE APPROACH SLABS WIT
79	526	90010	79	FT	TYPE A INSTALLATION
165	607	39910	165	FT	VANDAL PROTECTION FENCE, 8' STRAIGHT, C
165	607	39930	165	FT	VANDAL PROTECTION FENCE, 12' CURVED, CO
20	608	53020	20	SF	DETECTABLE WARNING
110	625	25504	110	FT	CONDUIT, 3", 725.051
1	625	30706	1	EACH	PULL BOX, 725.08, 24″
	000	00100			
LS	690	98400	LS		SPELIAL - MISU.: IEMPORARY SURCHARGE
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INCLUDING FOOTING	252	63				z _	a
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	DESIGN AGENCY JACOBS 1880 WAYCROSS R0AD CINCINNATI. OHIO 45240
2″ ICHOR S AND	D DRAWN REVIEWED DATE MM JTC 5/2022 D REVISED STRUCTURE FLE NUMBER 2900213
PL 1/2 "x21/2"	DESIGNE MM F BW
ΙΤ	SCUPPER DETAILS BRIDGE NO. GRE-035-0627 VALLEY/TREBEIN ROAD OVER U.S. 35
	600 600 600 600 600 600 600 600 698 600 698 600 698 600 698 600 698 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 6