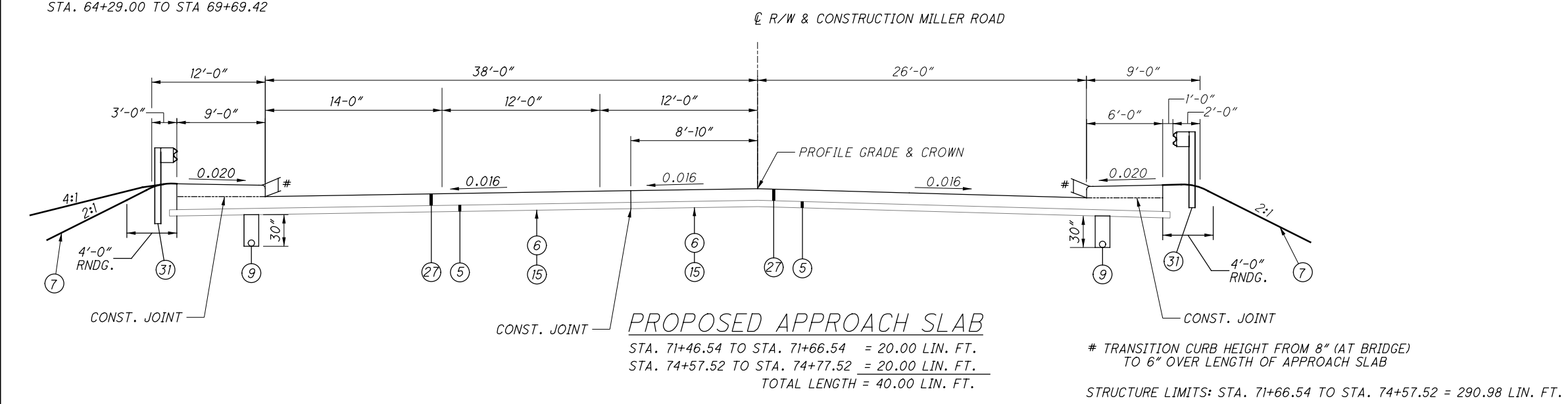
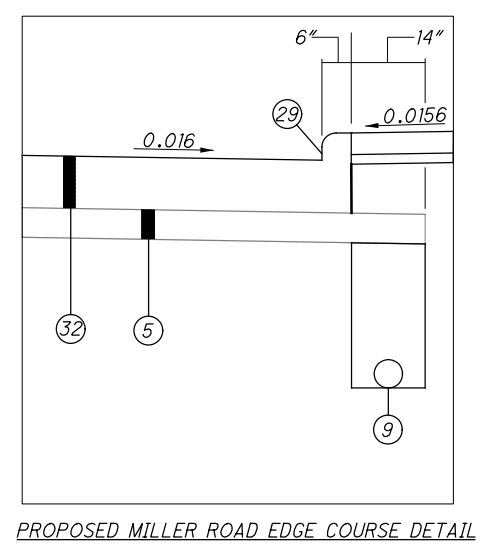
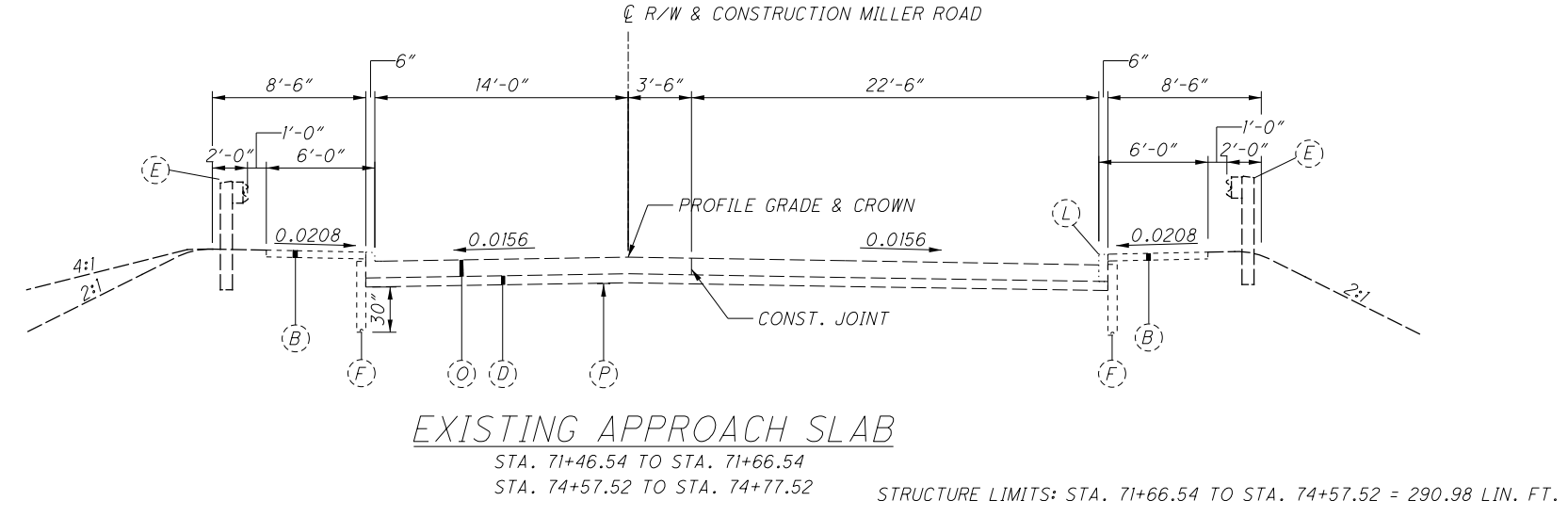
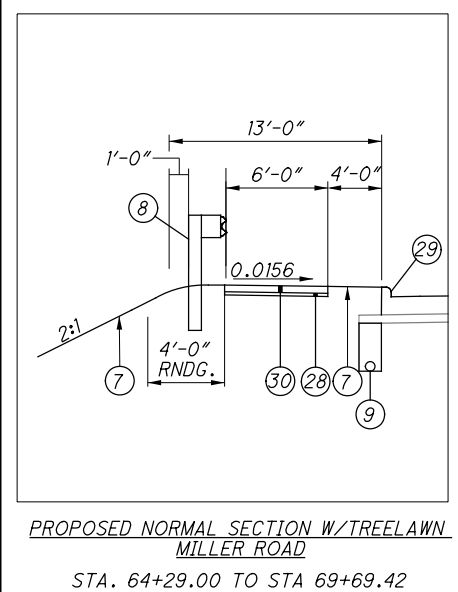
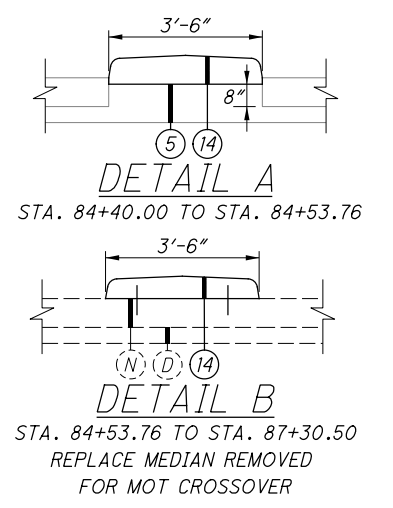
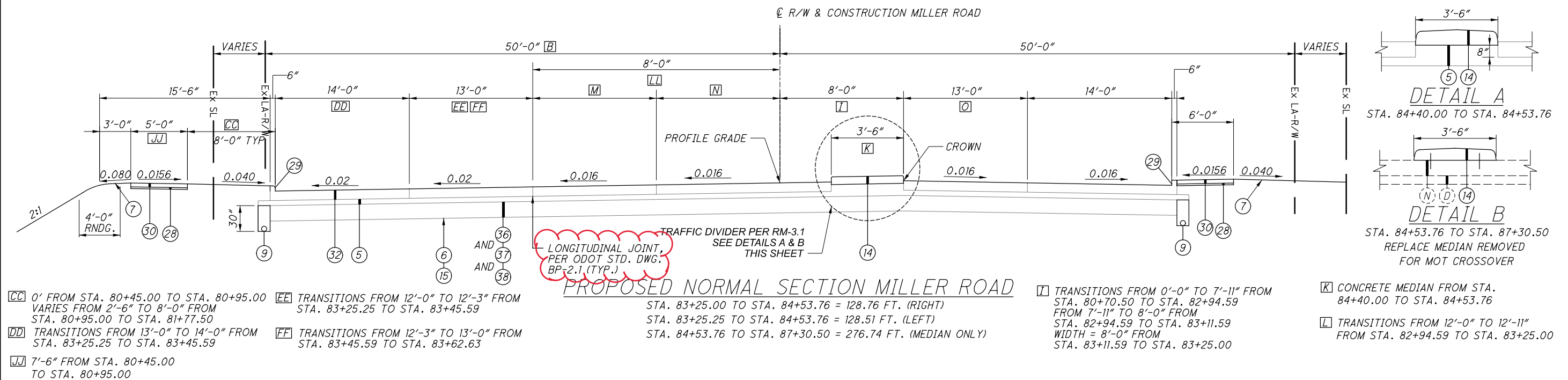
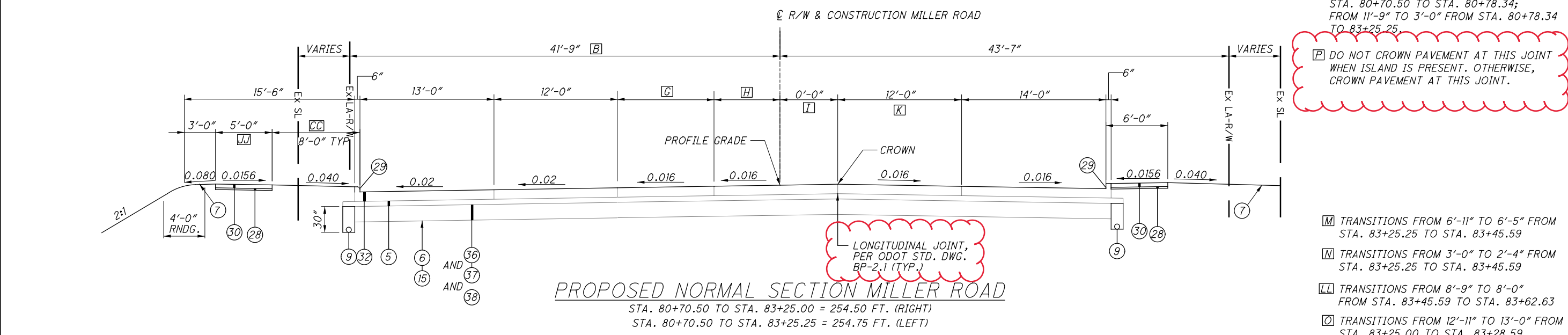
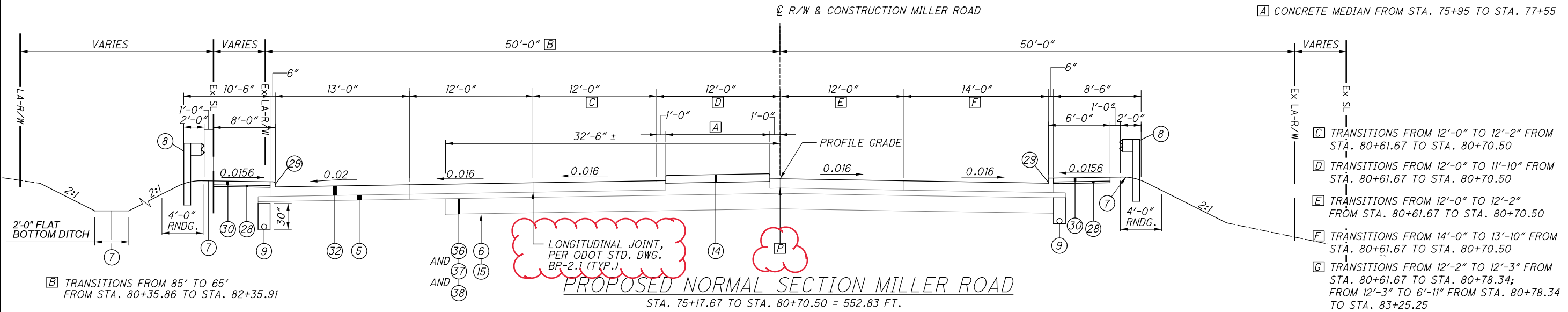


- [A] VARIES FROM 0'-0" TO 24'-0" FROM 64+70.00 TO 69+71.00
- [B] TRANSITIONS FROM 2'-0" TO 14'-0" FROM 66+50.00 TO 67+00.00
- [C] NO WALK FROM STA. 64+19.00 TO 70+90.47
- [D] SIDEWALK WIDTH VARIES:
 6'-0" FROM 64+19.00 TO 70+70.64
 7'-6" FROM 70+70.64 TO 71+46.54
 7'-6" FROM 74+77.52 TO 75+17.67
- [E] TOTAL WIDTH VARIES:
 13'-0" FROM 64+70 TO 70+70.64
 11'-6" FROM 70+70.64 TO 71+46.54
 11'-6" FROM 74+77.52 TO 75+17.67
 10'-0" FROM 64+19.00 TO 64+70.00
- [F] NO GUARDRAIL FROM STA. 64+19 TO 64+70
- [G] DEPTH = 24" STA. 66+12 TO STA. 69+19
 DEPTH = 15" STA. 69+19 TO STA. 70+80
 DEPTH = 12" STA. 70+80 TO STA. 71+46.54
 DEPTH = 24" STA. 74+77.52 TO STA. 75+17.67
- [H] VARIES FROM 21'-3" AT STA. 66+12.00 TO 32'-6" AT STA. 68+45.73
- [I] TRANSITION SIDEWALK CROSS-SLOPE FROM 0.020 (AT APPROACH SLAB) TO 0.0156 OVER A LENGTH OF 10 FT.
- [J] FOR CURB ALONG NORTH SIDE OF MILLER ROAD:
 TYPE 6 CURB FROM STA. 64+19.00 TO STA. 69+69.42 (P.C. OF RAMP B-2 CURB TURNOUT).
 TYPE 2-A CURB FROM STA. 69+69.42 TO END OF CURB AT STA. 74+36.85 (RAMP B-2).



TRANSITION CURB HEIGHT FROM 8" (AT BRIDGE) TO 6" OVER LENGTH OF APPROACH SLAB

MODEL: Sheet PAPER: 17x11 (in.) DATE: 02-Sep-22 TIME: 8:35:34 AM USER: comitink
F:\Jobs\1162-Miller Road Interchange\104983\03-Addendum\Longitudinal\Johns_03003.dgn



TYPICAL SECTIONS - MILLER ROAD

DESIGN AGENCY	EUTHENICS
DESIGNER	ANC
REVIEWER	DTB
PROJECT ID	104983
SHEET	P.6
TOTAL	P.445

DRAINAGE, CONT.

ITEM 611 - CONDUIT, AS PER PLAN, 706.02 (ALTERNATE 2)

THIS ITEM SHALL BE LIMITED TO CLASS III MINIMUM FOR REINFORCED CONCRETE CIRCULAR PIPE (706.02).

WHERE TYPE B, C OR D (ALTERNATE 1) ITEMS ARE SPECIFIED, THE FOLLOWING BID ITEMS ARE BEING PROVIDED AS A BID ALTERNATE:

- 12" CONDUIT, TYPE B, AS PER PLAN, 706.02 1,106 FT
- 12" CONDUIT, TYPE C, AS PER PLAN, 706.02 356 FT
- 15" CONDUIT, TYPE B, AS PER PLAN, 706.02 348 FT
- 15" CONDUIT, TYPE C, AS PER PLAN, 706.02 14 FT
- 18" CONDUIT, TYPE B, AS PER PLAN, 706.02 159 FT
- 18" CONDUIT, TYPE C, AS PER PLAN, 706.02 24 FT
- 21" CONDUIT, TYPE C, AS PER PLAN, 706.02 6 FT
- 21" CONDUIT, TYPE D, AS PER PLAN, 706.02 50 FT
- 24" CONDUIT, TYPE B, AS PER PLAN, 706.02 326 FT
- 24" CONDUIT, TYPE C, AS PER PLAN, 706.02 5 FT
- 27" CONDUIT, TYPE B, AS PER PLAN, 706.02 10 FT
- 30" CONDUIT, TYPE B, AS PER PLAN, 706.02 176 FT
- 36" CONDUIT, TYPE B, AS PER PLAN, 706.02 96 FT
- 42" CONDUIT, TYPE C, AS PER PLAN, 706.02 247 FT
- 48" CONDUIT, TYPE C, AS PER PLAN, 706.02 421 FT

PAVEMENT

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

MEDIAN AND/OR CURBING ON APPROACH SLABS

WITHIN THE LIMITS OF THE APPROACH SLAB, TRANSITION THE SHAPE OF THE MEDIAN AND/OR CURBING ON APPROACH SLABS FROM THE STANDARD SECTION ON THE APPROACHES TO THE SECTION USED ON THE BRIDGE.

ASPHALT CONCRETE SURFACE COURSE SEALING REQUIREMENTS

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED IN SCD BP-3.1 AND C&MS 401.15, AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL USE A CERTIFIED 702.01 PG BINDER TO SEAL THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INLETS.
 - BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
 - FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING ASPHALT DRIVE.
 - PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.
 - ALL COLD LONGITUDINAL JOINTS BETWEEN PAVED SHOULDERS AND GUARDRAIL ASPHALT.
- THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2-3 INCHES.

ANY ADDITIONAL COSTS ASSOCIATED WITH THE WORK IDENTIFIED IN THIS NOTE SHALL BE INCLUDED IN THE APPROPRIATE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

PLANING REQUIREMENTS

THE DURATION OF TIME BETWEEN PLANING THE ASPHALT AND PLACING THE ASPHALT OVERLAY SHALL BE KEPT TO A MINIMUM.

IN NO INSTANCE SHALL THIS TIME EXCEED 7 CALENDAR DAYS. THE TIME LIMIT SHALL BEGIN ON THE FIRST DAY OF PLANING AND SHALL CONTINUE BASED ON CALENDAR DAYS, MINUS ANY WEATHER DAYS, UNTIL COMPLETION OF THE ASPHALT CONCRETE SURFACE COURSE. THIS IS TO ENSURE THAT THE POTENTIAL DEGRADATION OF THE EXPOSED PAVEMENT DUE TO TRAFFIC IS KEPT TO A MINIMUM. THIS REQUIREMENT APPLIES TO BOTH MAINLINE AND RAMP ALIKE.

IN THE EVENT THAT THE TIME BETWEEN EXPOSING THE EXISTING PAVEMENT AND PLACING THE ASPHALT SURFACE COURSE EXCEEDS 7 CALENDAR DAYS, LIQUIDATED DAMAGES AS PER 108.07 OF THE C&MS SHALL BE ASSESSED.

ASPHALT CONCRETE BASE, (449), AS PER PLAN (PG64-22)

IN ADDITION TO THE REQUIREMENTS OF ITEM 302, FOR THE PLACEMENT OF ITEM 302 ASPHALT BASE, USE ANTI-SEGREGATION EQUIPMENT CONFORMING TO THE REQUIREMENTS OF 401.03.C EXCLUDING THE USE OF REMIXING PAVERS.

ITEM 441 – ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING ITEM 209 – RESHAPING UNDER GUARDRAIL, AS PER PLAN AND PAVING UNDER THE GUARDRAIL USING ITEM 441 – ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN.

HERBICIDE SHALL BE EPA APPROVED FOR PAVING UNDER GUARDRAIL. IT SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S INSTRUCTIONS. DO NOT SPRAY WITHIN 1000 FT. OF A STATE SCENIC RIVER.

EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR AND ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING SHALL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY.

HERBICIDE LABEL, MATERIAL SAFETY DATA SHEET AND COPY OF APPLICATORS LICENSES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION PRIOR TO COMMENCING WORK.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 441 ASPHALT CONCRETE TO A DEPTH OF 3" AND A MAXIMUM WIDTH OF 4' USING ONE OF THE FOLLOWING METHODS:

- METHOD A:
1. SET GUARDRAIL POSTS
 2. PLACE ITEM 441

- METHOD B:
1. PLACE ITEM 441
 2. BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)
 3. SET GUARDRAIL POSTS

4. PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR

PAYMENT UNDER ITEM 441 – ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN.

ITEM 442 – ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), AS PER PLAN, PG 76-22M

THE COARSE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO A BLEND OF AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO AND LIMESTONE. THE CONTRACTOR SHALL USE A MINIMUM 60% OF ACBFS OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE. AT LEAST 50% OF FINE VIRGIN AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO ACBFS OR TRAP ROCK FROM ONTARIO.

TABLE 442.02-2 APPLIES EXCEPT NO. 4 SIEVE REQUIREMENTS ARE 52 TO 60 TOTAL PERCENT PASSING. FOR THE NO. 4 SIEVE DO NOT EXCEED 63 IN PRODUCTION.

WHEN ACBFS IS USED FOR A FRACTION OF THE COARSE AGGREGATE, PROVIDE A TOTAL ASPHALT BINDER CONTENT GREATER THAN OR EQUAL TO 6.2 PERCENT. IF ACBFS MAKES UP 100% OF THE COARSE AGGREGATE, APPLY THE BINDER CONTENT REQUIREMENTS OF C&MS 442.

USE A PG76-22M BINDER FOR THIS ITEM.

ITEM 618 – RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN

FOR ALL FREEWAYS, THE LATERAL POSITION OF EDGE LINE RUMBLE STRIPS SHOWN IN SCD BP-9.1 IS REVISED AS FOLLOWS:

1. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS LESS THAN 6': DIMENSION A AND B ARE EQUAL TO 6".
2. MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS 6' TO 12': DIMENSION A AND B ARE EQUAL TO HALF THE SHOULDER WIDTH MINUS 12".

ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A

THIS ITEM CONSISTS OF INSTALLING A PRESSURE RELIEF JOINT AS LOCATIONS SHOW IN THE PLANS. IN ADDITION TO THE REQUIREMENTS OF THE CMS, THIS ITEM SHALL CONFORM TO ODOT STANDARD CONSTRUCTION DRAWING BP-2.3.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND THIS ITEM SHALL BE PAID AT THE CONTRACT PRICE BID PER LINEAR FOOT OF ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A.

ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN, PG70-22M

THE COARSE AGGREGATE FOR THIS ITEM SHALL BE LIMITED TO A BLEND OF AIR COOLED BLAST FURNACE SLAG (ACBFS) AND LIMESTONE. THE CONTRACTOR SHALL USE A MINIMUM 50% ACBFS WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE.

IN ADDITION TO THE JOINT SEALING REQUIREMENTS SPECIFIED IN 401.17, THE CONTRACTOR SHALL SEAL THE PERIMETER OF ALL RUMBLE STRIP PAVEMENT REPLACEMENT AREAS. THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2-3 INCHES.

PAYMENT FOR ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (448), AS PER PLAN, PG70-22M.

TRAFFIC CONTROL

SHOP DRAWINGS

THE CONTRACTOR SHALL SUBMIT A SET OF SIGN SHOP DRAWINGS TO THE PROJECT ENGINEER FOR ACCEPTANCE. THESE SIGN SHOP DRAWINGS SHALL BE FORWARDED TO THE ODOT DISTRICT 12 PLANNING AND ENGINEERING DEPT. C/O FRANK KONOPKA FOR REVIEW AND APPROVAL.

ITEM 630 - REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION, AS PER PLAN

THE CONTRACTOR SHALL REMOVE THE FOLLOWING EXISTING OVERHEAD MOUNTED SIGNS FOR REERECTION AT OVERHEAD LOCATIONS AS INDICATED IN THE PLANS AND AS LISTED BELOW:

REF.	EX. LOC.	PART	PR. RELOC.	PART
R-26 I.R. 77 STA. 13+50		PART 1	STA. 1054+50	PART 2
R-35 I.R. 77 STA. 63+20		PART 1	STA. 13+50	PART 1

EXISTING SIGNS REERECTED SHALL BE ATTACHED TO OVERHEAD SUPPORTS USING NEW ATTACHMENT ASSEMBLIES INCLUDING ALL HARDWARE, GASKETS, AND OTHER MATERIALS AS REQUIRED BY TC-22.20.

ALL EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO PERFORM THE WORK DESCRIBED ABOVE AND AS SHOWN IN THE PLANS SHALL BE INCLUDED FOR PAYMENT UNDER EACH ITEM 630, REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION, AS PER PLAN.

INCIDENTALS

ITEM 619 – FIELD OFFICE, TYPE C, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 619, THE CONTRACTOR SHALL FURNISH AND SET UP A WI-FI ROUTER MEETING THE REQUIREMENTS OF IEEE 802.11AC AND PROVIDE INTERNET SERVICE WITH A MINIMUM DOWNLOAD SPEED OF 100MBS AND MINIMUM UPLOAD SPEED OF 10 MBS FOR THE EXCLUSIVE USE OF THE DEPARTMENT.

ALL OTHER FIELD OFFICE ITEMS SUPPLIED SHALL MEET THE REQUIREMENTS OF A TYPE C FIELD OFFICE.

ITEM 619 – FIELD OFFICE, TYPE C, AS PER PLAN ___ 12 MONTHS

ITEM 623 – CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE CMS, THIS ITEM OF WORK WILL INCLUDE THE FOLLOWING ADDITIONAL REQUIREMENTS.

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG THE CENTERLINE OF EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS.

SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
17-18	19	21	102	137	229	253	342	377	382, 383	OFFICE CALCS	01/IMS/ PV	02/NFP/B R							07/IMS/ BR
ROADWAY																			
LS			7								LS			201	11000	LS	CLEARING AND GRUBBING		
											7			202	20010	7	EACH	HEADWALL REMOVED	
											15,253			202	23000	15,253	SY	PAVEMENT REMOVED	
			675								17,349			202	30000	18,024	SF	WALK REMOVED	
			60								60			202	30700	60	FT	CONCRETE BARRIER REMOVED	
											34			202	30800	34	SY	TRAFFIC ISLAND REMOVED	
											4,165			202	32000	4,165	FT	CURB REMOVED	
			1,425		219	310					1,954			202	35100	1,954	FT	PIPE REMOVED, 24" AND UNDER	
						1,374					625	749		202	35101	1,374	FT	PIPE REMOVED, 24" AND UNDER, AS PER PLAN	252
			965								965			202	35200	965	FT	PIPE REMOVED, OVER 24"	
			6,348								6,348			202	38000	6,348	FT	GUARDRAIL REMOVED	
			4,913								4,913			202	48000	4,913	FT	CABLE BARRIER REMOVED	
			1								1			202	53100	1	EACH	MAILBOX REMOVED	
			9		2						11			202	58000	11	EACH	MANHOLE REMOVED	
			23								23			202	58100	23	EACH	CATCH BASIN REMOVED	
					2						2			202	58700	2	EACH	MANHOLE ABANDONED	
		50	50		529		292				921			SPECIAL	20270000	921	FT	FILL AND PLUG EXISTING CONDUIT	21, 227 & 340
			732								3,484			202	75000	3,484	FT	FENCE REMOVED	
						2			2,752		2			202	75610	2	EACH	VALVE BOX REMOVED	
			1								1			202	98100	1	EACH	REMOVAL MISC.: CONCRETE SLAB REMOVAL	17
											19,653			203	10000	19,653	CY	EXCAVATION	
											1,971			203	10001	1,971	CY	EXCAVATION, AS PER PLAN	19
											49,793			203	20000	49,793	CY	EMBANKMENT	
6											6			SPECIAL	20365000	6	EACH	SETTLEMENT PLATFORM	18
											28,943			204	10000	28,943	SY	SUBGRADE COMPACTION	
											5,145			204	13000	5,145	CY	EXCAVATION OF SUBGRADE	20
											5,145			204	30010	5,145	CY	GRANULAR MATERIAL, TYPE B	20
	12										12			204	45000	12	HOUR	PROOF ROLLING	
											12,563			204	50000	12,563	SY	GEOTEXTILE FABRIC	20
											42			209	15001	42	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN	19
	152										152			209	60201	152	STA	LINEAR GRADING, AS PER PLAN	19
			12,218								12,218			606	15050	12,218	FT	GUARDRAIL, TYPE MGS	
			3,412								3,412			606	15550	3,412	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
			4								4			606	26050	4	EACH	ANCHOR ASSEMBLY, MGS TYPE B	
			8								8			606	26150	8	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
			8								8			606	26550	8	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			6								6			606	35002	6	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
			1								1			SPECIAL	60655150	1	EACH	CABLE BARRIER, ANCHOR ASSEMBLY	19
			1								1			606	60028	1	EACH	IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL) 65MPH DESIGN SPEED, 24" WIDTH	
											2,688			607	23000	2,688	FT	FENCE, TYPE CLT	
							584							607	39900	584	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC	
							864						584	607	39994	864	FT	TEMPORARY VANDAL FENCE, TYPE B	
							LS					LS		607	98200	LS		FENCE, MISC.:ALUMINUM LETTERING	371
											15,957			608	10001	15,957	SF	4" CONCRETE WALK, AS PER PLAN	20
			2,126								2,126			608	52000	2,126	SF	CURB RAMP	
			63								63			622	10160	63	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
			2								2			622	25000	2	EACH	CONCRETE BARRIER END SECTION, TYPE D	
			1								1			622	25050	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
											2			623	38500	2	EACH	MONUMENT ASSEMBLY	
											17			623	40500	17	EACH	REFERENCE MONUMENT	
								4			4			625	32000	4	EACH	GROUND ROD	
			1								1			SPECIAL	69050350	1	EACH	MAILBOX REMOVED AND RESET	

GENERAL SUMMARY

DESIGN AGENCY
EUTHENICS
625 Walnut Dr., Cleveland, OH 44132

DESIGNER
 COM
 REVIEWER
 ANC 05/26/22
 PROJECT ID
 104983
 SHEET TOTAL
 P.94 P.445

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
21	22	28	32	102	103	104	290	OFFICE CALCS	01/IMS/PV	02/NFP/BR	07/IMS/BR								
DRAINAGE ALTERNATES																			
					1,106 356				1,106 356			611	04400	1,106	FT	12" CONDUIT, TYPE B (ALTERNATE 1)			
												611	04600	356	FT	12" CONDUIT, TYPE C (ALTERNATE 1)			
					348				348			611	05900	348	FT	15" CONDUIT, TYPE B (ALTERNATE 1)			
					14				14			611	06100	14	FT	15" CONDUIT, TYPE C (ALTERNATE 1)			
					159				159			611	07400	159	FT	18" CONDUIT, TYPE B (ALTERNATE 1)			
					24				24			611	07600	24	FT	18" CONDUIT, TYPE C (ALTERNATE 1)			
					8				8			611	09100	8	FT	21" CONDUIT, TYPE C (ALTERNATE 1)			
					50				50			611	09400	50	FT	21" CONDUIT, TYPE D (ALTERNATE 1)			
					326				326			611	10400	326	FT	24" CONDUIT, TYPE B (ALTERNATE 1)			
					5				5			611	10600	5	FT	24" CONDUIT, TYPE C (ALTERNATE 1)			
					10				10			611	11900	10	FT	27" CONDUIT, TYPE B (ALTERNATE 1)			
					176				176			611	13400	176	FT	30" CONDUIT, TYPE B (ALTERNATE 1)			
						96			96			611	16400	96	FT	36" CONDUIT, TYPE B (ALTERNATE 1)			
						247			247			611	19600	247	FT	42" CONDUIT, TYPE C (ALTERNATE 1)			
						421			421			611	21100	421	FT	48" CONDUIT, TYPE C (ALTERNATE 1)			
	1,106 356								1,106 356			611	04401	1,106	FT	12" CONDUIT, TYPE B, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
												611	04601	356	FT	12" CONDUIT, TYPE C, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	348								348			611	05901	348	FT	15" CONDUIT, TYPE B, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	14								14			611	06101	14	FT	15" CONDUIT, TYPE C, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	159								159			611	07401	159	FT	18" CONDUIT, TYPE B, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	24								24			611	07601	24	FT	18" CONDUIT, TYPE C, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	8								8			611	09101	8	FT	21" CONDUIT, TYPE C, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	50								50			611	09401	50	FT	21" CONDUIT, TYPE D, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	326								326			611	10401	326	FT	24" CONDUIT, TYPE B, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	5								5			611	10601	5	FT	24" CONDUIT, TYPE C, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	10								10			611	11901	10	FT	27" CONDUIT, TYPE B, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	176								176			611	13401	176	FT	30" CONDUIT, TYPE B, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	96								96			611	16401	96	FT	36" CONDUIT, TYPE B, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	247								247			611	19601	247	FT	42" CONDUIT, TYPE C, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
	421								421			611	21101	421	FT	48" CONDUIT, TYPE C, AS PER PLAN, 706.02 (ALTERNATE 2)	22		
PAVEMENT																			
								737	737			254	01000	737	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T = 3.25")			
								4,173	4,173			254	01000	4,173	SY	PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE THICKNESS)			
			23						23			254	01000	23	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.5" DEPTH)	28		
								1,063	1,063			302	56001	1,063	CY	ASPHALT CONCRETE BASE, (449), AS PER PLAN (PG64-22)	22		
								4,833	4,833			304	20000	4,833	CY	AGGREGATE BASE			
								1,247	1,247			407	20000	1,247	GAL	NON-TRACKING TACK COAT			
				8					8			411	10000	8	CY	STABILIZED CRUSHED AGGREGATE			
								130	130			441	70801	130	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	22		
								603	603			442	00100	603	CY	ANTI-SEGREGATION EQUIPMENT			
			4					417	421			442	10001	421	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN (PG76-22M)	22		
								391	391			442	10100	391	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446) (T= 1.75")			
								126	126			442	10100	126	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446) (VARIABLE THICKNESS)			
								13,206	13,206			451	15070	13,206	SY	11" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA			
				133					133			SPECIAL	45130000	133	FT	PRESSURE RELIEF JOINT, TYPE A	22		
								8,972	8,972			452	15020	8,972	SY	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA			
								3,793	3,793			609	14000	3,793	FT	CURB, TYPE 2-A			
								108	500			609	26000	500	FT	CURB, TYPE 6			
								288	288			609	72000	288	SY	CONCRETE MEDIAN			
								0.59	0.59			618	40601	0.59	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	22		

DESIGN AGENCY
EUTHENICS
 6225 Walnut Dr., Cleveland, OH 44130

DESIGNER
 COM

REVIEWER
 ANC 05/26/22

PROJECT ID
 104983

SHEET TOTAL
 P.96 P.445

SHEET NO.	601		605				611										INFO								
	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	6" SHALLOW PIPE UNDERDRAIN, WITH GEOTEXTILE FABRIC	6" BASE PIPE UNDERDRAIN, WITH GEOTEXTILE FABRIC	6" UNCLASSIFIED PIPE UNDERDRAIN, WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F	12" CONDUIT, TYPE B (ALTERNATE 1)	12" CONDUIT, TYPE C	12" CONDUIT, TYPE C (ALTERNATE 1)	15" CONDUIT, TYPE B	15" CONDUIT, TYPE B (ALTERNATE 1)	15" CONDUIT, TYPE C	15" CONDUIT, TYPE C (ALTERNATE 1)	18" CONDUIT, TYPE B (ALTERNATE 1)	18" CONDUIT, TYPE B (ALTERNATE 1)	18" CONDUIT, TYPE C	18" CONDUIT, TYPE C (ALTERNATE 1)	21" CONDUIT, TYPE C (ALTERNATE 1)	21" CONDUIT, TYPE D (ALTERNATE 1)	24" CONDUIT, TYPE B (ALTERNATE 1)	24" CONDUIT, TYPE C (ALTERNATE 1)	27" CONDUIT, TYPE B (ALTERNATE 1)	30" CONDUIT, TYPE B (ALTERNATE 1)	36" CONDUIT, TYPE A, 706.02	36" CONDUIT, TYPE A, 706.02, 707.01 (0.064) ALUMINIZED OR 707.95	CULVERT FILE NUMBER
	SY	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	
P.106		2454	75	501	350																				
P.107																									
P.109						68 367		41 300										50							
P.111						312																			
P.113						148				275			159		24										
P.115						211		15		73		14				8		326	5	10	176				
P.118	1.77		2435		64							32		557											
P.124	8.88		5287		50		41		244		196														CFN1989646 CFN1989647 CFN1989649
P.224																						15			CFN1841856
P.226																							119		CFN1989650
TOTALS CARRIED TO GENERAL SUMMARY	10.65	2,454	7,797	501	464	1,106	41	356	244	348	196	14	32	159	557	24	8	50	326	5	10	176	15	119	

DRAINAGE SUBSUMMARY

DESIGN AGENCY
EUTHENICS
 6225 Mahoning Dr., Cleveland, OH 44132

DESIGNER
 ESM

REVIEWER
 DTB 03/01/22

PROJECT ID
 104983

SHEET TOTAL
 P.103 P.445

REF. NO.	START PLAN SHEET NO.	STATION LIMITS		LOCATION	202					601	602	605		606							611		620	622		626						
					CONCRETE BARRIER REMOVED	PIPE REMOVED, 24" AND UNDER	GUARDRAIL REMOVED	CABLE BARRIER REMOVED	CATCH BASIN REMOVED	MANHOLE REMOVED	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	CONCRETE MASONRY	6" BASE PIPE UNDERDRAIN, WITH GEOTEXTILE FABRIC	6" CONDUIT, TYPE F	GUARDRAIL BARRIER DESIGN, TYPE MGS	GUARDRAIL, TYPE MGS	IMPACT ATTENUATOR, TYPE 2 (BIDIRECTIONAL)	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	ANCHOR ASSEMBLY, MGS TYPE B	ANCHOR ASSEMBLY, MGS TYPE T	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	SPECIAL - CABLE BARRIER, ANCHOR ASSEMBLY	18" CONDUIT, TYPE B	18" CONDUIT, TYPE C	MANHOLE, NO. 3	PRECAST REINFORCED CONCRETE OUTLET	DELINEATOR, POST GROUND MOUNTED	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	CONCRETE BARRIER END SECTION, TYPE D	CONCRETE BARRIER END ANCHORAGE, REINFORCED, TYPE D	BARRIER REFLECTOR TYPE 1, ONE-WAY	BARRIER REFLECTOR TYPE 3, ONE-WAY
					FT	FT	FT	FT	EACH	EACH	SY	CY	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH
D-1	P.120	26+65	28+91	LT							0.31											257	1									
D-2	P.120	28+91	31+96	LT																		300	1									
D-3	P.120	31+96		LT																		32	1									
GR-1	P.119	21+11	32+46	LT								1130							1									1	12			
GR-2	P.120	24+39	43+24	LT								1837	1																20			
GR-3	P.120	29+34	35+33	RT								600		1		1								1					6			
GR-4	P.121	41+42	58+88	RT								1750		1		1								1					19			
GR-5	P.121	43+24	58+86	LT								1588				1													17			
GR-6	P.121	44+44	46+72	LT								200				1													18			
GR-7	P.122	58+86	74+47	LT								1575				1													3			
GR-8	P.123	71+90	74+65	LT								275		1										1					3			
GR-9	P.123	74+23	74+73	LT														1														
GR-10	P.119	6+75	8+62.5	RT								125		1		1								1								
R-1	P.119	20+61	23+50	LT			269																									
R-2	P.120	25+79	28+10	LT			231																									
R-3	P.120	26+65	31+96	LT		495			1																							
R-4	P.120	31+96		LT					1																							
R-5	P.120	31+96		LT		18			1																							
R-6	P.120	24+34	44+02	LT			1965																									
R-7	P.121	41+43	45+61	RT			419																									
R-8	P.121	43+09	45+54	LT			244																									
R-9	P.121	45+04	63+54	LT			1848																									
R-10	P.123	63+02	64+59	LT			157																									
R-11	P.123	64+08	75+57	LT			1100																									
R-12	P.119	20+03	20+62	LT	60																											
U-1	P.119	18+00	22+03	LT				1.77		406	34											1										
U-2	P.120	22+03	35+16 ***	LT						1321																						
U-3	P.120	29+67	36+70 ****	RT						708	30																					
B-1	P.119	20+03	20+62	LT																				30	1	1						
B-2	P.121	43+44	44+44	LT																				33	1							
*** STATIONING OFF RAMP B-3																																
**** STATIONING OFF RAMP B-4																																
TOTALS CARRIED TO SUB-SUMMARY					60	513	1,320	4,913	1	2	1.77	0.31	2,435	64	3,412	5,668	1	4	1	4	2	1	32	557	3	1	4	63	2	1	1	95

ESTIMATED QUANTITIES - I.R. 77

DESIGN AGENCY
EUTHENICS
 625 Walnut Dr., Cleveland, OH 44132

DESIGNER
 ESM

REVIEWER
 DTB 03/01/22

PROJECT ID
 104983

SHEET TOTAL
 P.118 | P.445

ITEM 601 - SLOPE PROTECTION, MISC.: GROUT FILLED FABRIC MATS:

DESCRIPTION: EMBANKMENT SLOPE PROTECTION EXTENDING FROM THE FACE OF THE ABUTMENT DOWN TO THE TOE OF SLOPE SHALL BE IN ACCORDANCE WITH CMS 601.05 EXCEPT AS MODIFIED HEREIN. THE FOLLOWING SHALL BE CONSIDERED AS SUPPLEMENTAL TO THE PROVISIONS SET FORTH THEREIN.

MATERIAL: PREPARE THE BRIDGE SLOPES BY GRADING THE EXISTING MATERIALS AND SUPPLYING ADDITIONAL CRUSHED AGGREGATE AS NECESSARY TO PROVIDE A PREPARED SLOPE SUITABLE TO THE PROJECT ENGINEER. THE MATERIAL USED FOR EMBANKMENT SLOPE PROTECTION SHALL CONSIST OF SPECIALLY-WOVEN MULTIPLE PANELS OF DOUBLE LAYER, OPEN SELVAGE NYLON FABRIC, JOINED IN A MAT CONFIGURATION WITH 8" FILTER POINT SPACING, SIMILAR TO FILTER FABRIC, "FABRIFORM 8" OR APPROVED ALTERNATE. THIS MAT SHALL BE FILLED WITH A GROUT CONSISTING OF A MIXTURE OF PORTLAND CEMENT, FINE AGGREGATE AND WATER SO PROPORTIONED AND MIXED AS TO PROVIDE A PUMPABLE SLURRY. POZZOLAN AND GROUT FLUIDIFIER MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE MIX SHALL EXHIBIT A COMPRESSIVE STRENGTH OF 2000 P.S.I. AT TWENTY-EIGHT (28) DAYS WHEN MADE AND TESTED IN ACCORDANCE WITH ASTM C-31 AND C-39.

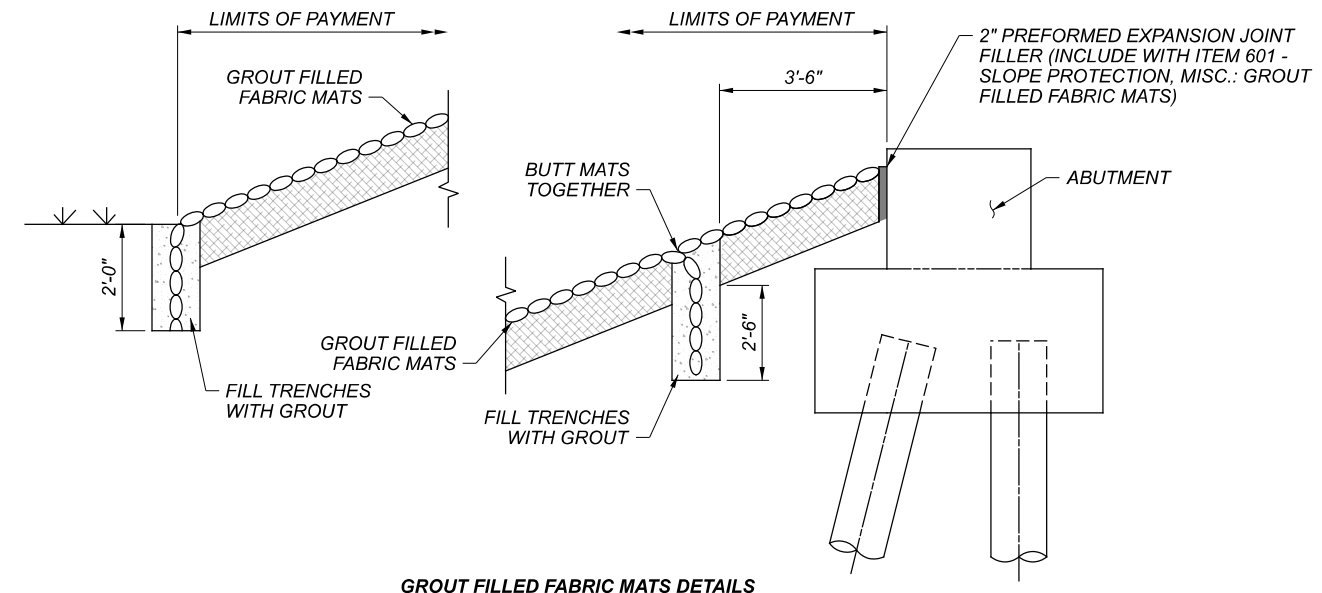
INSTALLATION: THE GROUT FILLED FABRIC MATS SHALL BE INSTALLED ON THE PREPARED SLOPE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE SIDES AND BOTTOM OF THE GROUT FILLED FABRIC MATS SHALL TERMINATE IN ANCHOR TRENCHES. THE TOP OF THE GROUT FILLED FABRIC MATS SHALL TERMINATE AT THE ABUTMENTS AGAINST 2" PREFORMED EXPANSION JOINT FILLER. (SEE DETAILS BELOW).

MEASUREMENT FOR PAYMENT: GROUT FILLED FABRIC MATS WILL BE MEASURED BY THE SQUARE YARD OF FINISHED SURFACE COMPLETE IN PLACE.

BASIS OF PAYMENT: PAYMENT FOR THE ACCEPTED QUANTITIES, COMPLETE IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE BID FOR:

ITEM	UNIT	DESCRIPTION
601	SY	SLOPE PROTECTION, MISC.: GROUT FILLED FABRIC MATS

THIS PRICE SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM AS SPECIFIED.



ITEM 625 - STRUCTURE GROUNDING SYSTEM:

INSTALL A STRUCTURE GROUNDING SYSTEM IN ACCORDANCE WITH ODOT STANDARD DRAWING HL-50.21. SURFACE-MOUNTED GROUND CONDUCTORS USING 1" METAL CONDUIT WILL BE REQUIRED TO GROUND THE RIGHT VANDAL PROTECTION FENCE AND THE RIGHT EXTERIOR BEAM. AS PART OF THE REQUIREMENTS OF CMS 625.06 FOR SHOP DRAWINGS, THE CONTRACTOR SHALL PROVIDE BOTH A LAYOUT AND DETAILS OF THE SURFACE-MOUNTED GROUND CONDUCTORS TO THE ENGINEER FOR REVIEW AND APPROVAL. PAYMENT WILL BE MADE UNDER ITEM 625 - STRUCTURE GROUNDING SYSTEM. A QUANTITY OF 1 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY ON SHEET P.98 OF P.445.

ITEM 630 - SIGNING, MISC.: OVERPASS NAME INSTALLATION:

THIS ITEM SHALL APPLY TO THE FOLLOWING STRUCTURE: CUY-CR187-00977 (SFN 1805673)

THE CONTRACTOR IS REQUIRED TO INSTALL OVERHEAD STREET NAME DESIGNATION SIGNS ON THE FASCIA BEAMS AFTER PAINTING AND APPROVAL OF PAINTING IS COMPLETED.

INSTALL SIGNS, AS DIRECTED BY THE ENGINEER, WHERE THEY ARE MOST VISIBLE TO THE TRAVELING PUBLIC BUT NOT OVER TRAVELED LANES. SIGNS MAY BE INSTALLED OVER BERMS, BUT MAY NOT BE CUT FOR INSTALLATION. THE SIGN DECALS WILL BE PROVIDED BY THE DISTRICT. THE SIGN DECAL MAY BE PICKED UP AT THE DISTRICT OFFICE FROM THE DISTRICT TRAFFIC ENGINEER, KEITH HAMILTON, AT 216-584-2220. THE DISTRICT TRAFFIC ENGINEER REQUIRES 30 DAYS ADVANCE NOTIFICATION FOR COORDINATION OF ACQUISITION OF THE SIGN DECALS. ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THE ABOVE DESCRIBED WORK SHALL BE INCLUDED FOR PAYMENT AS ITEM 630 - SIGNING, MISC.: OVERPASS NAME INSTALLATION. A QUANTITY OF 2 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY ON SHEET P.98 OF P.445.

SUMMARY OF PROPOSED REHABILITATION WORK:

THE FOLLOWING LIST CONTAINS THE MAJOR ITEMS OF WORK INCLUDED IN THESE PLANS FOR THE REHABILITATION OF THIS STRUCTURE:

- PARTIAL REMOVAL OF THE EXISTING BRIDGE DECK INCLUDING SIDEWALK, PARAPET, AND VANDAL PROTECTION FENCING.
- REMOVAL OF EXISTING APPROACH SLABS.
- REMOVAL OF PORTIONS OF THE EXISTING ABUTMENTS AND WINGWALLS TO ACCOMMODATE SUBSTRUCTURE WIDENING.
- WIDENING OF EXISTING ABUTMENTS AND CONSTRUCTION OF NEW WINGWALLS ON EXISTING AND NEW PILE-SUPPORTED FOUNDATIONS.
- CONSTRUCTION OF NEW ADDITIONAL INDIVIDUAL CAP AND COLUMN PIERS.
- CONSTRUCTION OF NEW SUPERSTRUCTURE WITH INSTALLATION OF FOUR (4) BEAM LINES.
- CONSTRUCTION OF WIDENED SEMI-INTEGRAL CONCRETE END DIAPHRAGMS.
- CONSTRUCTION OF WIDENED SUPERSTRUCTURE DECK SLAB INCLUDING SIDEWALK, PARAPET, AND VANDAL PROTECTION FENCING.
- CONSTRUCTION OF WIDENED APPROACH SLAB.
- PARTIAL REMOVAL OF CONCRETE WEARING SURFACE AND REPLACEMENT WITH MICRO-SILICA CONCRETE OVERLAY.
- REMOVAL AND REPLACEMENT OF THE EXISTING PARAPET AND VANDAL PROTECTION FENCE.
- SEALING OF PARAPETS AND DECK EDGE.
- PATCHING AND SEALING OF COMPLETED SUBSTRUCTURE.
- PAINTING OF STRUCTURAL STEEL.

ITEM 202 - SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM SHALL CONSIST OF FILLING AND PLUGGING THE EXISTING 3" DIAMETER TRAFFIC SIGNAL INTERCONNECT CONDUIT LOCATED UNDERNEATH THE RIGHT PARAPET AND WITHIN THE EXISTING SIDEWALK TO REMAIN. THE EXISTING CONDUIT IS TO BE CUT FLUSH AT BOTH ENDS OF THE BRIDGE SIDEWALK AND GROUTED WITHIN THESE LIMITS. A MIX DESIGN AND PROCEDURE FOR GROUTING THE CONDUIT SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES TABLE.

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT	292 FT
---	--------

GENERAL NOTES - 3
 BRIDGE NO. CUY-CR187-00.977
 MILLER ROAD OVER I.R. 77

SFN	1805673
DESIGN AGENCY	EUTHENICS 6335 Mohawk Dr. Cleveland, OH 44138
DESIGNER/CHECKER	OOS BPS
REVIEWER	LAB 02/24/22
PROJECT ID	104983
SUBSET	TOTAL 6 42
SHEET	TOTAL P.340 P.445

FUNDING		ESTIMATED QUANTITIES					CALC. BY: SRW CHKD. BY: BPS				DATE: 02/21/22 DATE: 02/28/22	
02/NFP/BR	07/IMS/BR	ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	REAR ABUTMENT	FOWARD ABUTMENT	PIERS	SUPER-STRUCTURE	GENERAL	REF. SHEET NUMBER
	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	4
	178	202	22900	178	SY	APPROACH SLAB REMOVED					178	6
	292	202	70000	292	FT	FILL AND PLUG EXISTING CONDUIT				292		4
	LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN					LS	
	255	503	21100	255	CY	UNCLASSIFIED EXCAVATION	53	53	149			
	LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION					LS	
	3200	507	00100	3200	FT	STEEL PILES HP10X42, FURNISHED	560	600	2040			
	2940	507	00150	2940	FT	STEEL PILES HP10X42, DRIVEN	520	560	1860			
	148,598	509	10001	148,598	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	2845	2692	23,180	119,881		5 & 16
	400	509	20001	400 *	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN					400	5
	780	510	10001	780	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	29	27		724		5
	2	511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	1	1				
	497	511	34446	497	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK				497		
	58	511	34450	58	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)				58		
	76	511	41012	76	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS			76			
	82	511	43512	82	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	41	41				
	77	511	46512	77	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING			77			
	529	512	10050	529	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				529		
	1383	512	10100	1383	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	40	40	638	665		
	8	512	33000	8	SY	TYPE 2 WATERPROOFING	4	4				
	261,000	513	10240	261,000	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2				261,000		
	20,280	514	00050	20,280	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				20,280		
	20,280	514	00056	20,280	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				20,280		
	32,330	514	00060	32,330	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				32,330		
	32,330	514	00066	32,330	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				32,330		
	34	514	00504	34	MNHR	GRINDING FINIS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL				34		
	16	514	10000	16	EACH	FINAL INSPECTION REPAIR				16		
	163	516	10010	163	FT	ARMORLESS PREFORMED JOINT SEAL					163	
	81	516	13400	81	SF	3/4" PREFORMED EXPANSION JOINT FILLER			81			
	59	516	13900	59	SF	2" PREFORMED EXPANSION JOINT FILLER				59		
	68	516	14020	68	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	34	34				
	8	516	44201	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (LOAD PLATE 13" x 17" x 1.50", NEOPRENE 12" x 16" x 3.55")	4	4				24
	8	516	44201	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (LOAD PLATE 16" x 19" x 1.50", NEOPRENE 15" x 18" x 3.00")			8			25
	4	516	44201	4	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (LOAD PLATE 16" x 27" x 1.50", NEOPRENE 15" x 18" x 3.00")			4			25
	46	518	21200	46	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	23	23				
	88	518	40000	88	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	44	44				
	24	518	40010	24	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	12	12				
	17	519	11101	17 *	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	4	3	10			5
	352	526	15001	352	SY	REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN					352	5
	163	526	90030	163	FT	TYPE C INSTALLATION					163	
	LS	SPECIAL	53014000	LS		STRUCTURAL SURVEY AND MONITORING OF VIBRATION					LS	5
	270	601	21100	270	SY	SLOPE PROTECTION, MISC.: GROUT FILLED FABRIC MATS	135	135				6
	584	607	39900	584	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				584		
	864	607	39994	864	FT	TEMPORARY VANDAL FENCE, TYPE B				664	200	
LS		607	98200	LS		FENCE, MISC.: ALUMINUM LETTERING					LS	37
	931	847	10000	931	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY				931		
	4	847	20000	4	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY				4		
	LS	847	30000	LS		TEST SLAB				LS		
	2	847	30200	2	CY	FULL DEPTH REPAIR				2		
	56	847	50000	56	SY	HAND CHIPPING				56		

* DENOTES QUANTITY TO BE USED "AS DIRECTED BY THE ENGINEER"

ESTIMATED QUANTITIES
 BRIDGE NO. CUY-CR187-00.977
 MILLER ROAD OVER I.R. 77

SFN 1805673
 DESIGNER AGENCY
EUTHENICS
 6033 Mohawk Dr. | Cleveland, OH 44130
 DESIGNER CHECKER
 SRW BPS
 REVIEWER
 LAB 02/24/22
 PROJECT ID
 104983
 SUBSET TOTAL
 8 42
 SHEET TOTAL
 P.342 P.445