

O:\2018\1802295_001_MOT_725_14\roadway\sheet\08619CG001.dgn 4/15/2024 11:50:02 AM agrdff

SHEET NUM.										PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	VLC	CHECKED	RJM
10	39	40	41	42	43	83	171	OFFICE CALCS		01/SAF/21	02/S>2/21	03/MPO/28	04/ENH/31										
								LUMP				LUMP		201	11000	LS		ROADWAY					
		1										1		202	20010	1	EACH	CLEARING AND GRUBBING					
		1,593										1,593		202	23000	1,593	SY	HEADWALL REMOVED					
		830										830		202	30000	830	SF	PAVEMENT REMOVED					
		4										4		202	30600	4	SY	WALK REMOVED					
																		CONCRETE MEDIAN REMOVED					
		936										936		202	32000	936	FT	CURB REMOVED					
		78										78		202	32500	78	FT	CURB AND GUTTER REMOVED					
		44										44		202	32600	44	FT	GUTTER REMOVED					
		64										64		202	35100	64	FT	PIPE REMOVED, 24" AND UNDER					
		43										43		202	35200	43	FT	PIPE REMOVED, OVER 24"					
		1,392										1,392		202	38000	1,392	FT	GUARDRAIL REMOVED					
		8										8		202	58300	8	EACH	CATCH BASIN OR INLET REMOVED					
		1										1		202	58500	1	EACH	CATCH BASIN ABANDONED					
		8										8		SPECIAL	20270000	8	FT	FILL AND PLUG EXISTING CONDUIT 15"		9			
		1,255										1,255		202	98400	1,255	SF	REMOVAL MISC.: RIPRAP REMOVED		9			
				2,023								2,023		203	10000	2,023	CY	EXCAVATION					
				1,432								1,432		203	20000	1,432	CY	EMBANKMENT					
						86		1,201				1,287		204	10000	1,287	SY	SUBGRADE COMPACTION					
	762.5											762.5		606	15050	762.5	FT	GUARDRAIL, TYPE MGS					
	12.5											12.5		606	17360	12.5	FT	GUARDRAIL, TYPE MGS, LONG-SPAN					
	5											5		606	26150	5	EACH	ANCHOR ASSEMBLY, MGS TYPE E MASH 2016		10			
	4											4		606	26550	4	EACH	ANCHOR ASSEMBLY, MGS TYPE T					
	1											1		606	35002	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1					
	23,225											23,225		608	10000	23,225	SF	4" CONCRETE WALK					
	9											9		608	10001	9	SF	4" CONCRETE WALK, AS PER PLAN		10			
	1,939											1,939		608	52000	1,939	SF	CURB RAMP					
	154						2,431					2,585		608	98000	2,585	SF	WALKWAY, MISC.: TYPE A		9			
	246											246		622	10160	246	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D					
	1											1		622	25000	1	EACH	CONCRETE BARRIER END SECTION, TYPE D					
	3											3		622	25050	3	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D					
				10.43								10.43		654	10001	10.43	MSF	RENOVATING EXISTING SOIL, AS PER PLAN		9			
																		EROSION CONTROL					
	5			3.94								3.94		601	11000	3.94	SY	RIPRAP, TYPE D					
					2							7		601	21050	7	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT					
	416			455								455		601	37500	455	FT	PAVED GUTTER, TYPE 1-2					
	3,752											3,752		659	00300	416	CY	TOPSOIL					
	188											188		659	00500	3,752	SY	SEEDING AND MULCHING, CLASS 1					
	188											188		659	14000	188	SY	REPAIR SEEDING AND MULCHING					
	0.85											0.85		659	15000	188	SY	INTER-SEEDING					
	0.78											0.78		659	20000	0.85	TON	COMMERCIAL FERTILIZER					
	21											0.78		659	31000	0.78	ACRE	LIME					
												21		659	35000	21	MGAL	WATER					
				1,158.69								1,158.69		671	14000	1,158.69	SY	EROSION CONTROL MAT					
												LUMP		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN					
												LUMP		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS					
												LUMP		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE					
								5,000				5,000		832	30000	5,000	EACH	EROSION CONTROL					
																		DRAINAGE					
				0.69								0.69		602	20000	0.69	CY	CONCRETE MASONRY					
	100				1,350							1,350		605	11110	1,350	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC					
	200											100		605	13300	100	FT	6" UNCLASSIFIED PIPE UNDERDRAINS					
												279		611	00510	279	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS					
				59								59		611	04400	59	FT	12" CONDUIT, TYPE B					
												8		611	05900	8	FT	15" CONDUIT, TYPE B					
				8								5		611	07600	5	FT	18" CONDUIT, TYPE C					
				21								21		611	10400	21	FT	24" CONDUIT, TYPE B					
				5								5		611	10600	5	FT	24" CONDUIT, TYPE C					
				80								80		611	16600	80	FT	36" CONDUIT, TYPE C					
												2		611	98150	2	EACH	CATCH BASIN, NO. 3					
												1		611	98540	1	EACH	CATCH BASIN, NO. 2-4					
												1		611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE					
												3		611	98710	3	EACH	INLET, NO. 2-6					

GENERAL SUMMARY

MOT - 725 - 14.41

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SHEET NUM.										PART.				ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	VLC	CHECKED	RJM
10	39	42	43	83		154	155	156	OFFICE CALCS	01/SAF/21	02/S>2/21	03/MPO/28	04/ENH/31	(X)	EXT	TOTAL								
																			DRAINAGE (CONT.)					
		1										1			611	98820	1	EACH	INLET, NO. 3D					
		4										4			611	99574	4	EACH	MANHOLE, NO. 3					
		3										3			611	99654	3	EACH	MANHOLE ADJUSTED TO GRADE					
		2										2			611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE					
3			1									4			611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET					
																			PAVEMENT					
4				2					147			153			301	56000	153	CY	ASPHALT CONCRETE BASE, PG64-22, (449)					
									197			197			304	20000	197	CY	AGGREGATE BASE					
									89			90			407	20000	90	GAL	NON-TRACKING TACK COAT					
				1								1			441	70500	1	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)					
									34			34			442	22100	34	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)					
									43			43			442	22400	43	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449)					
				70								70			452	12010	70	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP					
									89			89			452	13010	89	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP					
	124											124			609	14000	124	FT	CURB, TYPE 2-A					
	1,592											1,592			609	26000	1,592	FT	CURB, TYPE 6					
	5											5			609	71000	5	SF	CONCRETE MEDIAN					
																			WATER WORK					
	2											2			638	10300	2	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE					
																			LIGHTING					
												LUMP			202	75700	LS		CONTROL CENTER REMOVED					
						2	4					6			625	00480	6	EACH	CONNECTION, UNFUSED PERMANENT					
						4	6	5				15			625	14000	15	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP					
						2	6					8			625	14001	8	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP, AS PER PLAN			153		
						1						1			625	15200	1	EACH	LIGHT TOWER FOUNDATION, 36" X 25' DEEP					
												1			625	21000	1	EACH	LIGHT TOWER MAINTENANCE PLATFORM, TYPE A					
								1				1			625	21400	1	EACH	LIGHT TOWER MAINTENANCE PLATFORM, MISC.: REMOVE PLATFORM			159		
						182						182			625	25014	182	FT	CONDUIT, 3/4", 725.052					
						2,052	1,298	428				3,778			625	25410	3,778	FT	CONDUIT, 2", 725.052					
							45					45			625	25506	45	FT	CONDUIT, 3", 725.052					
						40	463					503			625	25900	503	FT	CONDUIT, JACKED OR DRILLED, 2"					
						3						3			625	27520	3	EACH	REMOVAL OF LUMINAIRE AND REERECTION					
						2,052	1,196	428				3,676			625	29010	3,676	FT	TRENCH, 30" DEEP					
						2						2			625	29901	2	EACH	JUNCTION BOX, AS PER PLAN, WALL MOUNTED, 6"x6"			153		
						11	11	1				23			625	30530	23	EACH	PULL BOX, 725.06, SIZE 18					
							1					1			625	31510	1	EACH	PULL BOX REMOVED					
						20	28	6				54			625	32000	54	EACH	GROUND ROD					
							2					2			625	34000	2	EACH	POWER SERVICE					
						1						1			625	35020	1	EACH	RE-ERECT EXISTING LIGHT TOWER					
						2,052	1,196	428				3,676			625	36010	3,676	FT	UNDERGROUND WARNING/MARKING TAPE					
								LUMP				LUMP			SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING			153		
								1				1			625	75360	1	EACH	LIGHT TOWER REMOVED FOR STORAGE					
							1					1			625	75510	1	EACH	POWER SERVICE REMOVED					
								1				1			625	75540	1	EACH	LIGHT TOWER FOUNDATION REMOVED					
								1				1			625	75800	1	EACH	DISCONNECT CIRCUIT					
								1				1			630	89812	1	EACH	REMOVAL OF WOOD POLE AND DISPOSAL					
						2	3					5			632	70400	5	EACH	CONDUIT RISER, 2" DIAMETER					
							1					1			632	89300	1	EACH	WOOD POLE					
																			LIGHTING ALTERNATES					
						6	12	5				23		X	625	10481	23	EACH	LIGHT POLE, AESTHETIC, AS PER PLAN (ALTERNATE 1)			153		
						6	12	5				23		X	625	27550	23	EACH	LUMINAIRE, DECORATIVE (ALTERNATE 1)			153		
						14	32	10				56		X	625	00450	56	EACH	CONNECTION, FUSED PULL APART (ALTERNATE 1)			153		
						7	16	5				28		X	625	00460	28	EACH	CONNECTION, UNFUSED PULL APART (ALTERNATE 1)			153		
						6,726	5,367	1,374				13,467		X	625	23200	13,467	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE (ALTERNATE 1)			153		
						210	420	175				805		X	625	23400	805	FT	NO. 10 AWG POLE AND BRACKET CABLE (ALTERNATE 1)			153		
							4					4		X	625	27502	4	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), ASYMMETRIC, 240V, 3000K (ALTERNATE 1)			153		
						6	12	5				23		X	625	10481	23	EACH	LIGHT POLE, AESTHETIC, AS PER PLAN (ALTERNATE 2)			170		
						6	12	5				23		X	625	27550	23	EACH	LUMINAIRE, DECORATIVE (ALTERNATE 2)			170		
						14	32	10				56		X	625	00450	56	EACH	CONNECTION, FUSED PULL APART (ALTERNATE 2)			153		
						13	28	10				51		X	625	00460	51	EACH	CONNECTION, UNFUSED PULL APART (ALTERNATE 2)			153		
						8,808	6,976	1,832				17,616		X	625	23200	17,616	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE (ALTERNATE 2)			153		
						336	672	280				1,288		X	625	23400	1,288	FT	NO. 10 AWG POLE AND BRACKET CABLE (ALTERNATE 2)			153		
							4					4		X	625	27502	4	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), ASYMMETRIC, 240V, 3000K (ALTERNATE 2)			153		

GENERAL SUMMARY

MOT - 725 - 14.41

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SHEET NUM.					PART.				ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	VLC	CHECKED	RJM
116	117	148		173		01/SAF/21	02/SAF/21	03/MPO/28	04/ENH/31	(X)		EXT	TOTAL						
TRAFFIC SIGNALS (CONT.)																			
95.75						92		3.75			630	80100	95.75	SF	SIGN, FLAT SHEET				
126						126					630	80224	126	SF	SIGN, OVERHEAD EXTRUSHEET				
	1					1					630	89812	1	EACH	REMOVAL OF WOOD POLE AND DISPOSAL				
19						19					632	05006	19	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE				
4								4			632	20740	4	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AUDIBLE				
4								4			632	20751	4	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN				114
19						19					632	25000	19	EACH	COVERING OF VEHICULAR SIGNAL HEAD				
4								4			632	25010	4	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD				
408								408			632	40200	408	FT	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG				
4,789						4,362		427			632	40700	4,789	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG				
6						6					632	64011	6	EACH	SIGNAL SUPPORT FOUNDATION, AS PER PLAN				114
		8					8				632	64020	8	EACH	PEDESTAL FOUNDATION				
3								3			632	64021	3	EACH	PEDESTAL FOUNDATION, AS PER PLAN				114
		3,247					3,247				632	67300	3,247	FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG				
		1,595					1,595				632	68300	1,595	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG				
310	113					423					632	69320	423	FT	POWER CABLE, 3 CONDUCTOR, NO. 2 AWG				
2						2					632	70000	2	EACH	POWER SERVICE				
		2					2				632	70001	2	EACH	POWER SERVICE, AS PER PLAN				147
	3	3				3	3				632	70400	6	EACH	CONDUIT RISER, 2" DIAMETER				
1						1					632	72131	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN				114
2						2					632	72141	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN				114
2						2					632	72151	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN				114
1						1					632	78101	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-12.31, DESIGN 6, AS PER PLAN				114
	1					1					632	89300	1	EACH	WOOD POLE				
3								3			632	90008	3	EACH	PEDESTAL, 15', TRANSFORMER BASE				114
		8					8				632	90010	8	EACH	PEDESTAL, MISC.: PEDESTAL, 15' TRANSFORMER BASE				147
2						2					632	90100	2	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION				
2						2					633	65511	2	EACH	CABINET, TYPE TS-2, AS PER PLAN				115
2						2					633	67100	2	EACH	CABINET FOUNDATION				
2						2					633	67200	2	EACH	CONTROLLER WORK PAD				
2						2					633	74000	2	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS)				
	3,101					3,101					804	15010	3,101	FT	FIBER OPTIC CABLE, 24 FIBER				
	1,389					1,389					809	24500	1,389	FT	CONDUIT, 4", MULTICELL, HDPE WITH 4 * 1" INNERDUCTS				
2						2					809	60040	2	EACH	CCTV IP-CAMERA SYSTEM, QUAD MULTI-VIEW FIXED WITH PTZ				
		807				807					809	64550	807	FT	ETHERNET CABLE, OUTDOOR-RATED				
		2					2				809	65990	2	EACH	ITS DEVICE, MISC.:RELOCATE CCTV IP-CAMERA SYSTEM, WRONG WAY				147
6						6					809	69001	6	EACH	ADVANCE RADAR DETECTION, AS PER PLAN				115
3						3					809	69101	3	EACH	STOP LINE RADAR DETECTION, AS PER PLAN				115
2						2					809	69123	2	EACH	ATC CONTROLLER, AS PER PLAN				114
		2					2				809	69130	2	EACH	WRONG WAY DETECTION SYSTEM				
	LUMP					LUMP					809	70050	LS		AS-BUILT CONSTRUCTION PLANS				
RETAINING WALLS (002)																			
				LUMP				LUMP			503	21300	LS		UNCLASSIFIED EXCAVATION				
				2,918				2,918			509	10000	2,918	LB	EPOXY COATED STEEL REINFORCEMENT				
				32				32			511	46210	32	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING				
				32				32			512	10100	32	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)				
				7				7			512	33001	7	SY	TYPE 2 WATERPROOFING, AS PER PLAN				173
				21				21			516	13600	21	SF	1" PREFORMED EXPANSION JOINT FILLER				
				23				23			518	21200	23	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				
				76				76			518	39800	76	FT	4" PERFORATED CORRUGATED PLASTIC PIPE				
				70				70			518	39900	70	FT	4" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS				

GENERAL SUMMARY

MOT - 725 - 14.41

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REF. NO.	SHEET NO.	STATION		SIDE	601	601	602	611	611	611	611	611	611	611	611	611	611	611	611	611	654	671	
		FROM	TO		SY	FT	CY	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	MSF
D-1	47	753+07.48		RT																			
AVFS-1	47-49	3+13.71	6+74.10	LT																		1.82	202.30
D-2	49	756+28.50		RT																			
D-3	49	757+11.06		RT																			
D-4	49	758+12.81	758+27.83	RT																			
AVFS-2	49-51	7+56.38	10+53.24	LT										15								2.39	265.02
D-5	51	760+36.91	760+54.65	RT	3.94		0.69																
D-6	51	760+97.98		RT																			
D-7	51	762+70.01		RT																			
D-8	51	762+62.51	762+77.51	RT				5															
D-9	51	764+98.94	765+00.88	RT																			
D-9A	51	764+99.91		RT																			
PG-1	51	761+25.00	765+50.00	RT																			
AVFS-3	51-53	14+61.75	16+89.67	LT			425															1.81	201.6
D-10	53	766+42.90	766+52.88	RT																			
D-11	53	767+05.15	767+18.10	RT																			
D-12	53	769+76.04		RT																			
D-13	53	769+73.88		RT																			
PG-2	53	765+50.00	765+75.00	RT																			
AVFS-4	53-55	17+99.75	22+77.47	LT			25																
D-14	55	773+11.42	773+21.27	RT																			
D-15	55	773+10.01		RT																			
D-16	55	773+63.34		RT																			
D-17	55	774+88.52	775+00.00	LT																			
D-18	55	774+83.52	774+88.52	LT																			
AVFS-5	55-57	25+00.00	28+89.93	RT																			
NOTE: THE STATIONING ASSOCIATED WITH THE PROPOSED DRAINAGE QUANTITIES ARE BASED UPON THE EXISTING CENTERLINE STATIONING OF SR 725. THE AMENDED VEGETATED FILTER STRIP QUANTITIES ARE BASED UPON THE BASELINE OF CONSTRUCTION OF THE WALK.																							
TOTALS CARRIED TO GENERAL SUMMARY					3.94	455	0.69	59	8	5	21	5	80	2	1	1	3	1	4	3	2	10.43	1158.69

DRAINAGE SUB-SUMMARY

MOT - 725 - 14.41

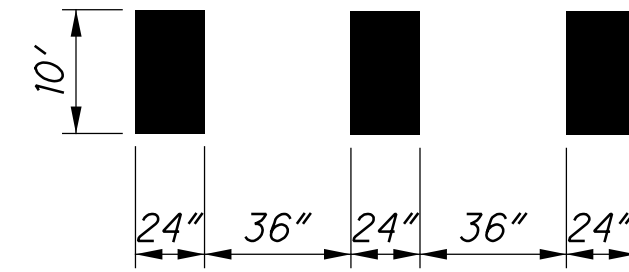
CALCULATED
JDC
CHECKED
RJM

ITEM 632 OVERHEAD SIGN SUPPORT, MISC.: MECHANICAL DAMPER PER TC-81.22

AN APPROVED MECHANICAL DAMPING DEVICE SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE END OF THE ARM AS SHOWN ON TC-81.22 OR AS DIRECTED BY THE ENGINEER

ITEM 644 CROSSWALK LINE, AS PER PLAN

CROSSWALK LINES SHALL BE AS SHOWN BELOW, WITH HORIZONTAL MEASUREMENT GIVEN IN LINEAR FEET FOR EACH PAINTED AREA FOR THE ENTIRE LENGTH OF THE CROSSWALK. METHOD OF MEASUREMENT SHALL BE PER CMS 641.12



FIBER OPTIC CABLE MARKER

THE CONTRACTOR SHALL FURNISH AND INSTALL THIS ITEM ACCORDING TO ODOT SUPPLEMENTAL SPECIFICATIONS 804/904.

REFERENCE LOCATION SIGNS

THE LOCATION OF REFERENCE LOCATION SIGNS ON THE PLANS ARE APPROXIMATE AND A MORE PRECISE LOCATION WILL BE PROVIDED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 30 DAYS IN ADVANCE OF THE PLANNED DATE OF REFERENCE LOCATION SIGN INSTALLATION. THE ENGINEER WILL CONTACT THE OFFICE OF TECHNICAL SERVICES WHICH WILL LOCATE THE LONGITUDINAL POSITION OF REFERENCE LOCATION SIGNS BY MEANS OF A PAINT MARK ON THE PAVEMENT EDGE. ALTERNATE MARKS WILL NOT BE PROVIDED ON DIVIDED HIGHWAYS AND THE CONTRACTOR SHALL SET REFERENCE LOCATION SIGNS FOR THE OPPOSITE ROADWAY ACROSS FROM THE PROVIDED MARK. DELINEATORS WHOSE NORMAL POSITION FALLS WITHIN 50 FEET OF A REFERENCE LOCATION SIGN SHALL BE OMITTED.

ITEM 630 SPAN WIRE SIGN SUPPORT, TYPE TC-17.11, DESIGN B, AS PER PLAN

ITEM 630 OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN X, AS PER PLAN

ITEM 630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN X, AS PER PLAN

ITEM 630 OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN X, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS, SIGNAL SUPPORTS AND APPURTANCES SHALL BE PAINTED BLACK (FEDSTD-595b 17038) IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 916.

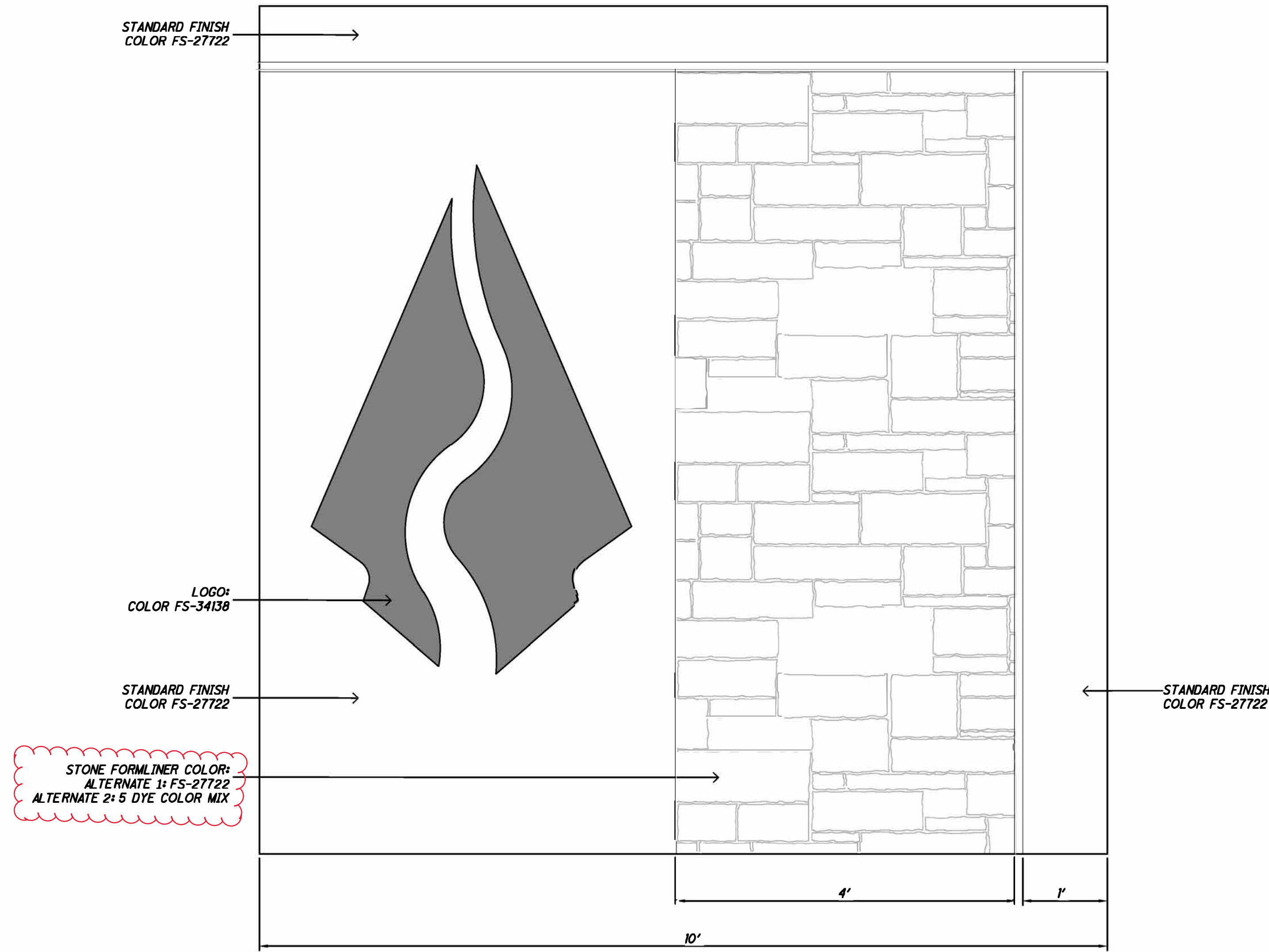
0:\2018\1802295_001_M0T_725_14\Traffic\sheets\08669TN001.dgn 4/17/2024 9:41:04 AM mtompkins

CALCULATED
MST
CHECKED
RJM

TRAFFIC CONTROL GENERAL NOTES

MOT - 725 - 14.41

85
220



TEST PANEL 1 DETAIL



COLOR MOCK UP BASIS OF DESIGN PROVIDED BY CONCRETE ARTISTS (513) 400-0482, OR APPROVED EQUAL. CONTRACTOR TO COORDINATE TEST PANEL COLORS WITH OWNER, ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

ITEM 511: CONCRETE, MISC.: FORMLINERS
 THE FOLLOWING REQUIREMENTS WILL BE APPLICABLE TO ALL AREAS WHICH THE FORMLINER TEXTURE IS APPLIED. WHERE A TEXTURE IS NOT INDICATED, THE CONCRETE SHALL BE FINISHED PER THE ODOT C&MS 511.

FORMLINERS SHALL BE MADE OF THERMOFORMED ABS, STYRENE PLASTIC, OR URETHANE, AND SHALL BE OF SUFFICIENT STRENGTH TO MAINTAIN ITS FORM WHILE CONCRETE IS BEING Poured. THEY SHALL BE ATTACHED PLUMB AND LEVEL IN FORMS IN A CONTINUOUS PATTERN PER THE DETAILS, AND SHALL BE OVERLAPPED ON ALL SIDES BY 1/16". IMPERFECTIONS IN THE CONCRETE UPON REMOVAL OF THE FORMLINER SHALL BE PATCHED WITH THE SAME MATERIALS AND MIX TO RESTORE THE SURFACE TO A CONSISTENT NATURAL STONE LOOK SURFACE.

BASIS OF DESIGN - CUSTOMROCK MINNEHAHA BLEND. 2020 WEST 7TH STREET, ST. PAUL, MN 55116. WWW.CUSTOMROCK.COM, OR APPROVED EQUAL.

PAYMENT FOR FORMLINERS INCLUDING ALL MATERIALS, LABOR AND EQUIPMENT SHALL BE MADE UNDER ITEM 511: CONCRETE, MISC.: FORMLINER ON A SQUARE FOOT BASIS.

ITEM 511: CONCRETE, MISC.: AESTHETIC TEST PANEL
 TEST PANEL SHALL BE PROVIDED TO REPRESENT ALL AESTHETIC TREATMENTS UTILIZED ON THE WALLS WITHIN THE PROJECT.

TEST PANEL 1 SHALL BE 10' X 10', AND SHALL REPRESENT A SECTION OF WALL WITH FORMLINER "A", INCLUDING FORMLINER TEXTURE, COLUMN DETAIL, AND COPING DETAIL. TEST PANEL 1 SHALL ALSO REPRESENT A SECTION OF WALL WITH THE LOGO FORMLINER AT WALL 3, AND WILL MATCH THE SIZE AND DEPTH PROVIDED IN THE DETAIL. TEST PANEL SHALL INCLUDE ALL SEALANT COLORS AS CALLED FOR IN PLANS. SEAL TEST PANEL AS PER "TEST PANEL 1 DETAIL".

CAST PANEL ON SITE USING THE SAME MATERIALS, METHODS, EQUIPMENT AND PERSONNEL AS WILL THE FINAL PRODUCT. PROVIDE TEST PANEL PRIOR TO THE PURCHASE OF STAIN FOR THE ENTIRE PROJECT.

PAYMENT FOR THE TEST PANEL, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE MADE UNDER PAY ITEM 511: CONCRETE, MISC.: AESTHETIC TEST PANEL, EACH.

ITEM 512: SEALING OF CONCRETE SURFACES
 STONE FORMLINER COLOR:
 SURFACES WITH FORMLINER "A" SHALL RECEIVE A MIX OF FIVE CONCRETE DYE COLORS DISTRIBUTED IN A RANDOMIZED PATTERN TO MIMIC THE IMAGE ON THIS SHEET. THIS COLOR MOCK UP IS AVAILABLE TO BE ON SITE FOR REFERENCE WHEN CREATING THE TEST PANEL. DYE SHALL BE EXTERIOR ARMOUR DYE, OR APPROVED EQUAL. DYE COLORS SHALL BE:
 - MEDIUM GRAY
 - BUFF
 - TAUPE
 - SAND
 - SUN BUFF

DYED SURFACES TO BE SEALED WITH A LOW GLOSS SEALER PER ODOT C&MS 512.

SEALING OF CONCRETE SURFACES WITH RANDOMIZED MULTI COLORED SEALER SHALL BE PERFORMED BY A CONTRACTOR WITH AT LEAST 5 YEARS EXPERIENCE IN CREATING STONE LIKE TEXTURES IN CONCRETE WALLS.

LOGO COLOR:
 LOGO FORMLINER INSET AREAS SHALL BE SEALED WITH AN EPOXY URETHANE SYSTEM PER THE ODOT C&MS 512. ALL SURFACES WITHIN THE INSET LOGO INCLUDING THE BACK AND SIDES SHALL RECEIVE SEALER. SEALER COLOR SHALL BE FS-34138.

STANDARD FINISH COLOR:
 ALL REMAINING WALL SURFACES, INCLUDING COPING, COLUMNS, AND STANDARD FINISH CONCRETE WITHIN LOGO PANELS SHALL BE SEALED WITH AN EPOXY URETHANE SYSTEM PER THE ODOT C&MS 512. SEALER COLOR SHALL BE FS-27722.

ITEM 530: SPECIAL - STRUCTURES, AESTHETIC LOGO
 FORMLINER FOR AESTHETIC LOGO SHALL BE OF SUFFICIENT STRENGTH TO MAINTAIN ITS FORM WHILE CONCRETE IS BEING Poured. THEY SHALL BE ATTACHED PLUMB AND LEVEL IN FORMS PER THE DETAILS. IMPERFECTIONS IN THE CONCRETE UPON REMOVAL OF THE FORMLINER SHALL BE PATCHED WITH THE SAME MATERIALS AND MIX TO RESTORE THE SURFACE TO A CONSISTENT SMOOTH SURFACE.

PAYMENT FOR FORMLINERS INCLUDING ALL MATERIALS, LABOR AND EQUIPMENT SHALL BE MADE UNDER ITEM 530: SPECIAL - STRUCTURES, AESTHETIC LOGO.

DECORATIVE CONCRETE NOTES

DESIGNED	BMC	CHECKED	MGP	REVIEWED	DATE	STRUCTURE FILE NUMBER
DRAWN	BMC	REVISED				

MOT-725-14.41
PID No. 108619



REF. NO.	SHEET NO.	STATION TO STATION	608	512	512	530
			WALKWAY MISC. TYPE A	SEALING OF CONCRETE SURFACES (NON-EPOXY)	SEALING OF CONCRETE SURFACES (EPOXY URETHANE)	SPECIAL - STRUCTURES, AESTHETIC LOGO
			SF	SY	SY	EA
SR 725 (EX. CL R/W)						
W-1		761+47.45	764+72.11	1,531		
W-2		761+25.00	765+75.00	900		
S-1	168				321	
S-2	168				107	
L-1	168					6
TOTALS CARRIED TO GENERAL SUMMARY			2431	321	107	6

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ESTIMATED QUANTITIES					
ITEM	EXT.	QUANTITY	UNIT	DESCRIPTION	REF.
503	21300	LS		UNCLASSIFIED EXCAVATION	
509	10000	2918	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46210	32	CY	CLASS QC1 CONCRETE, RETAINING WALL INCLUDING FOOTING	
512	10100	32	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	33001	7	SY	TYPE 2 WATERPROOFING	
516	13600	21	SF	1" PREFORMED EXPANSION JOINT FILLER	
518	21200	23	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
518	39800	76	FT	4" PERFORATED CORRUGATED PLASTIC PIPE	
518	39900	70	FT	4" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	

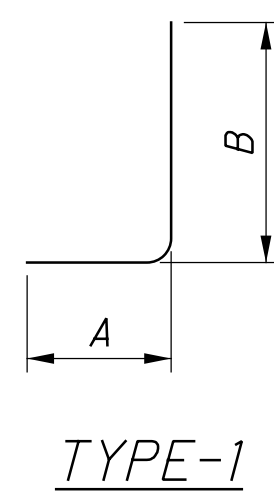
DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA:

CONCRETE QC1 COMPRESSIVE STRENGTH 4000 PSI (FACING)
 CONCRETE QC5 COMPRESSIVE STRENGTH 4000 PSI (DRILLED SHAFTS)
 REINFORCING STEEL ASTM, A615, OR A996 GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI

BAR BENDING DIAGRAMS




MARK	NUMBER		LENGTH	WEIGHT (LBS)	TYPE	DIMENSIONS				
	TOTAL					A	B	C	D	E
WALL 2										
2W501	10		14'-6"	152	ST.					
2W502	20		30'-0"	626	ST.					
2W503	18		6'-8"	126	1	64.5	15.5			
2W504	12		14'-2"	178	ST.					
2W505	14		20'-0"	293	ST.					
2W506	20		24'-0"	501	ST.					
	1		7'-4"			72	15.5			
2W507	SER. OF	TO		106	1					1"
	13		8'-3"			84	15.5			
2W508	14		11'-8"	171	ST.					
	1		8'-3"			84	15.5			
2W509	SER. OF	TO		56	1					2"
	7		6'-10"			66	15.5			
2W510	10		14'-0"	147	ST.					
	1		6'-10"			66	15.5			
2W511	SER. OF	TO		20	1					1"
	9		7'-4"			72	15.5			
2W5012	18		7'-2"	135	1	64.5	21.5			
	1		7'-4"			66	21.5			
2W513	SER. OF	TO		20	1					1"
	9		7'-10"			72	21.5			
	1		7'-10"			72	21.5			
2W514	SER. OF	TO		28	1					1"
	13		8'-9"			84	21.5			
	1		8'-9"			84	21.5			
2W515	SER. OF	TO		15	1					2"
	7		7'-4"			66	21.5			
2W5016	94		3'-6"	344	ST.					
TOTAL =				2,918						

ABBREVIATIONS:

BOT. - BOTTOM
 C - CENTERLINE
 CIP - CAST-IN-PLACE
 CLR. - CLEAR
 CONST. - CONSTRUCTION
 DIA. - DIAMETER
 E.F. - EACH FACE
 EL. - ELEVATION
 EX. - EXISTING
 FF - FAR FACE
 MAX. - MAXIMUM
 MIN. - MINIMUM
 NF - NEAR FACE
 PROP. - PROPOSED
 R/W - RIGHT OF WAY
 STA. - STATION
 TYP. - TYPICAL
 W/ - WITH

NOTES:

- THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, 2W501:
 2W: LOCATION OF THE BARS IN THE STRUCTURE (WALL 2)
 5: BAR SIZE DIMENSION NO. 5
 01: SEQUENCE NUMBER
- BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED.
- "ST." INDICATES A STRAIGHT BAR.
- ALL REINFORCING TO BE EPOXY COATED.

DESIGN AGENCY:  2020 Copyright © George D. St. John, Inc. All Rights Reserved.
 DATE: 1/11/2024
 REVIEWED: RJM
 DRAWN: PPA
 DESIGNED: PPA
 CHECKED: SOL
ESTIMATED QUANTITIES, REINFORCING SCHEDULE & GENERAL NOTES
 RETAINING WALL 2
MOT - 725 - 14.41
PID No. 108619
 2 / 4
 173
 220

ESTIMATED QUANTITIES					
ITEM	EXT.	QUANTITY	UNIT	DESCRIPTION	REF.
203	20000	50	CY	EMBANKMENT	178
503	21101	LUMP		UNCLASSIFIED EXCAVATION, AS PER PLAN	178
509	10000	34,963	LB	EPOXY COATED STEEL REINFORCEMENT	
511	46011	150	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING, AS PER PLAN	178
511	71200	4,050	SF	CONCRETE, MISC.: FORMLINER	168
511	81300	2	EACH	CONCRETE, MISC.: AESTHETIC TEST PANEL	168
512	10100	530	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
518	20000	400	SY	PREFABRICATED GEOCOMPOSITE DRAIN	
518	39800	450	FT	4" PERFORATED CORRUGATED PLASTIC PIPE	179
518	39900	45	FT	4" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	179
520	10001	5,190	SF	PNEUMATICALLY PLACED CONCRETE SHOTCRETE, AS PER PLAN	179
530	51100	363	EACH	RETAINING WALL, SOIL NAIL 20' LONG, MINIMUM	178
530	51110	11	EACH	RETAINING WALL, SOIL NAIL VERIFICATION TEST	178
530	51120	19	EACH	RETAINING WALL, SOIL NAIL PROOF TEST	178