

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

- ITEM 605 - AGGREGATE DRAINS 200 FT.
- ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC 500 FT.
- ITEM 611 - 6" CONDUIT, TYPE F 50 FT.

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE ENGINEER

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE IN ACCORDANCE WITH SCD DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING, OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611, INSPECTION WELL.

FURNISH A DRILLED HOLE OR A CURB SECTION WITH A HOLE WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING, OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE - FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE - FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION: THE CONTRACTOR SHALL FURNISH WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE DISTRICT R/W PERMIT OFFICE. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE - FOR DRAINAGE DISCHARGE CONTINUANCE.

CONDUIT MATERIAL TYPES THE FOLLOWING CONDUIT MATERIAL TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, AND 707.52 SDR35.

PAY ITEMS: EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPES B AND C FOR DRAINAGE DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO 12 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN THESE PAY ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

- ITEM 611, INSPECTION WELL 10 EACH
- ITEM 611, CONDUIT, MISC TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE 500 FEET
- ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE 500 FEET

ITEM 611 - CONDUIT

PROVIDE PREMIUM, WATERTIGHT JOINTS ON ALL DRAINAGE CONDUIT, REGARDLESS OF SIZE, TYPE OR MATERIAL.

PAYMENT FOR THE PREMIUM JOINTS IS INCLUDED IN THE PERTINENT 611 ITEMS.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ITEM SPECIAL - MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET ITEM 611 OF THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

- SPECIAL, MISCELLANEOUS METAL 10,000 POUNDS

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR.

ITEM 611 INLET, SIDE DITCH

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO ADDRESS LOW AREAS INADVERTENTLY CREATED WITHIN THE PROJECT LIMITS, AS DIRECTED BY THE DEPARTMENT.

- ITEM 611 INLET, SIDE DITCH 5 EACH
- ITEM 611 12" CONDUIT, TYPE C 500 FEET

ITEM 611 12" CONDUIT, AS PER PLAN, 748.01 OR 748.06

THE FOLLOWING CONDUIT TYPES SHALL BE PROVIDED FOR THIS ITEM OF WORK.

- 748.01 - PROVIDE ANSI CLASS 52 WITH PUSH-ON JOINTS CONFORMING TO 638.07.
- 748.06 - PROVIDE STANDARD THICKNESS GALVANIZED STEEL CASING WITH FULL-CIRCUMFERENCE WELDED JOINTS CONFORMING TO 513.21.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

- SPECIAL, PIPE CLEANOUT, 24" AND UNDER 4400 FT.
- SPECIAL, PIPE CLEANOUT, 27" TO 48" 225 FT.

TEMPORARY DRAINAGE ITEMS

TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED ON THE MOT PLANS. PAYMENT FOR THE TEMPORARY DRAINAGE ITEMS ARE ITEMIZED AND CARRIED TO THE GENERAL SUMMARY.

WATER QUALITY

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

MANUFACTURED WATER QUALITY STRUCTURE

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY STRUCTURES FOR WATER QUALITY TREATMENT. AREAS HAVE BEEN SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE SYSTEM. PAYMENT FOR THESE DEVICES SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4.

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.

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

- ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (449) 200 CU. YDS.
- ITEM 304 - AGGREGATE BASE 200 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 AND 304 THICKNESS OF 6 INCHES AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 611, DRAINAGE STRUCTURES.

- ITEM 301, ASPHALT CONCRETE BASE, PG64-22, (449) 30 CU. YDS.
- ITEM 304 - AGGREGATE BASE 30 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 AND 304 THICKNESS OF 6 INCHES AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF THE DRAINAGE STRUCTURE.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

ITEM 874 - LONGITUDINAL JOINT PREPARATION, AS PER PLAN

METHOD ONE SHALL BE USED TO COMPLETE THIS WORK.

A MINIMUM OF 12 INCHES WIDTH FROM THE FIRST PASS OF THE ENTIRE LENGTH OF ASPHALT CONCRETE SURFACE COURSE SHALL BE REMOVED.

INCLUDE THE COST OF FURNISHING, PLACING AND REMOVING 12 INCHES WIDTH OF ASPHALT SURFACE COURSE, AND FURNISHING AND PLACING SS 875 LONGITUDINAL JOINT ADHESIVE IN THE CONTRACT UNIT PRICE FOR LONGITUDINAL JOINT PREPARATION.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR PARTIAL DEPTH PAVEMENT REPAIR:

- ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441) 1400 SY.

REMOVAL DEPTH SHALL BE 3 INCHES OR AS DIRECTED BY THE ENGINEER.

ITEM 442 ASPHALT CONCRETE SURFACE COURSE, 12.5 mm, TYPE A (446), AS PER PLAN, PG76-22M

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 THE 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%. IF ACBFS MAKES UP 100% OF THE COARSE AGGREGATE, APPLY THE BINDER CONTENT REQUIREMENTS OF CMS 442.

ITEM 442 ASPHALT CONCRETE INTERMEDIATE COURSE, 19 mm, TYPE A (446), AS PER PLAN

ON THIS PROJECT SUPPLY A 19 mm INTERMEDIATE COURSE MEETING THE REQUIREMENTS OF 442 EXCEPT AS MODIFIED BELOW.

MODIFY TABLE 442.02-2 AS FOLLOWS:

SIEVE SIZE	9.5 mm mix	12.5 mm mix	19 mm mix
	TOTAL PERCENT PASSING		
1 1/2 inch (38 mm)	-	-	100
3/4 inch (19 mm)	-	100	95 to 100
1/2 inch (12.5 mm)	100	95 to 100	90 to 100
3/8 inch (9.5 mm)	90 to 100	96 max	96 max
No. 4 (4.75 mm)	70 max	52 to 65	60 max
No. 8 (2.36 mm)	34 to 52	34 to 45	34 to 45
No. 200 (75 µm)	2 to 8	2 to 8	2 to 8

MODIFY TABLE 442.02-3 AS FOLLOWS: APPLY 14.0 FOR A VMA (PERCENT MINIMUM) FOR A 19 mm MIX. APPLY 5.3 PERCENT FOR THE MINIMUM TOTAL ASPHALT BINDER CONTENT FOR A 19 mm MIX.

MODIFY THE 442 INTERMEDIATE COURSE REQUIREMENTS OF TABLES 401.04-1 AND 401.04-2 AS FOLLOWS: APPLY 3.5 PERCENT FOR THE TOTAL VIRGIN ASPHALT BINDER CONTENT, MINIMUM.

USE A PG64-22 IF USING 25 PERCENT OR LESS RAP. USE PG64-28 IF USING GREATER THAN 25 PERCENT RAP.

ITEM 301 - ASPHALT CONCRETE BASE, (449), AS PER PLAN, PG64-22

FOR THE PLACEMENT OF 301 ASPHALT BASE, USE ANTI-SEGREGATION EQUIPMENT CONFORMING TO THE REQUIREMENTS OF 401.03.C EXCLUDING THE USE OF REMIXING PAVERS. ALL COSTS ASSOCIATED WITH THIS PROVISION SHALL BE INCIDENTAL TO ITEM 301 - ASPHALT CONCRETE BASE, (449), AS PER PLAN, PG64-22.

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SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED EJT	CHECKED JMP
24A	25	26	408	411	419	862				01/NHS/04	02/NHS/66	03/NHS/66								
				9						9			601	21050	9	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT			
						26				26			601	32004	26	CY	ROCK CHANNEL PROTECTION, TYPE A WITH GEOTEXTILE FABRIC			
			13							13			601	32104	13	CY	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC			
			3							3			601	32204	3	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC			
2										2			659	00100	2	EACH	SOIL ANALYSIS TEST			
13,524										13,524			659	00300	13,524	CY	TOPSOIL			
121,832										121,832			659	00500	121,832	SY	SEEDING AND MULCHING, CLASS 1			
6,092										6,092			659	14000	6,092	SY	REPAIR SEEDING AND MULCHING			
6,092										6,092			659	15000	6,092	SY	INTER-SEEDING			
16.99										16.99			659	20000	16.99	TON	COMMERCIAL FERTILIZER			
25.17										25.17			659	31000	25.17	ACRE	LIME			
691										691			659	35000	691	MGAL	WATER			
15,350										15,350			659	40000	15,350	MSF	MOWING			
4,200										4,200			670	00500	4,200	SY	SLOPE EROSION PROTECTION			
					LS					LS			832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN			
					LS					LS			832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS			
					LS					LS			832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE			
					690,000					690,000			832	30000	690,000	EACH	EROSION CONTROL			
						LS				LS			503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN			25
	LS									LS			SPECIAL	53000200	LS		STRUCTURES MISC.: PRECONSTRUCTION CONDITION SURVEY			25
	LS									LS			SPECIAL	53014000	LS		STRUCTURAL SURVEY AND MONITORING OF VIBRATION			25
			3.5			4.1				7.39	0.21		602	20000	7.6	CY	CONCRETE MASONRY			
		500		160						660			605	13410	660	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC			
		200		53,273						53,273			605	14020	53,273	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC			
										200			605	31100	200	FT	AGGREGATE DRAINS			
				2,981						2,981			611	00510	2,981	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS			
		50								50			611	01500	50	FT	6" CONDUIT, TYPE F			
			24							24			611	01800	24	FT	8" CONDUIT, TYPE B			
			1,596							1,186	410		611	04401	1,596	FT	12" CONDUIT, TYPE B, AS PER PLAN, 748.01 OR 748.06			26
		500								500			611	04600	500	FT	12" CONDUIT, TYPE C			26
			4,748							3,256	1,492		611	05900	4,748	FT	15" CONDUIT, TYPE B			26
			1,331							1,062	269		611	06100	1,331	FT	15" CONDUIT, TYPE C			26
			1,619							1,319	300		611	07400	1,619	FT	18" CONDUIT, TYPE B			26
			3,355							3,355			611	07600	3,355	FT	18" CONDUIT, TYPE C			26
			483							223	260		611	08900	483	FT	21" CONDUIT, TYPE B			26
			1,634							1,634			611	09100	1,634	FT	21" CONDUIT, TYPE C			26
			3,318							102	581	2,635	611	10400	3,318	FT	24" CONDUIT, TYPE B			26
			880							129	114	637	611	10600	880	FT	24" CONDUIT, TYPE C			26
			415							200	215		611	13400	415	FT	30" CONDUIT, TYPE B			26
			353								353		611	13600	353	FT	30" CONDUIT, TYPE C			26
			800								800		611	16400	800	FT	36" CONDUIT, TYPE B			26
			1,095								1,095		611	19400	1,095	FT	42" CONDUIT, TYPE B			26
			1,385							1,175	210		611	19600	1,385	FT	42" CONDUIT, TYPE C			26
			3,816								388	3,428	611	20900	3,816	FT	48" CONDUIT, TYPE B			26
			1,474								170	1,304	611	21100	1,474	FT	48" CONDUIT, TYPE C			26
			48								48		611	22200	48	FT	54" CONDUIT, TYPE A, 706.02			26
						130				130			611	25000	130	FT	66" CONDUIT, TYPE A, 706.02, 707.35, 707.75, 707.85 OR 72" CONDUIT, TYPE A, 707.02 (0.109) ALUMINIZED, 707.03 (0.249) GALVANIZED, 707.04 (1") (0.109)			26
	50									50			611	97200	50	EACH	CONDUIT, MISC.: EXISTING UTILITY LOCATION TEST HOLES			25
		500								500			611	97400	500	FT	CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE			26
		500								500			611	97400	500	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE			26
			98							73	25		611	98150	98	EACH	CATCH BASIN, NO. 3			
			119							76	43		611	98180	119	EACH	CATCH BASIN, NO. 3A			
			6							4	2		611	98370	6	EACH	CATCH BASIN, NO. 6			
			2							1	1		611	98470	2	EACH	CATCH BASIN, NO. 2-2B			

GENERAL SUMMARY

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SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
28	29	30	44	50	54	59	63	65	69	72	01/NHS/04	02/NHS/66	03/NHS/66						
MAINTENANCE OF TRAFFIC																			
				1,013		613			588		2,214			606	15051	2,214	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	30
				1		1			3		5			606	26151	5	EACH	ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN (MASH 2016)	30
				3		5			1		9			606	26551	9	EACH	ANCHOR ASSEMBLY, MGS TYPE T, AS PER PLAN	30
2,000											2,000			608	21201	2,000	SF	TEMPORARY ASPHALT CONCRETE WALK, AS PER PLAN	33
				451		889		44	148		1,532			611	04401	1,532	FT	12" CONDUIT, TYPE B, AS PER PLAN	30, 32
									39		39			611	05901	39	FT	15" CONDUIT, TYPE B, AS PER PLAN	30, 32
				34							34			611	10401	34	FT	24" CONDUIT, TYPE B, AS PER PLAN	30, 32
				38		25		1	7		71			611	98371	71	EACH	CATCH BASIN, NO. 6, AS PER PLAN	30, 32
														611	98635	69	EACH	CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN	30, 32
											2			611	99155	2	EACH	INLET RECONSTRUCTED TO GRADE, AS PER PLAN	30
	1,200										1,200			614	11110	1,200	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
24											24			SPECIAL	61411300	24	EACH	WORK ZONE TRAFFIC SIGNAL	28
		1									1			SPECIAL	61411300	1	EACH	WORK ZONE TRAFFIC SIGNAL, TYPE 1	30
			3	78	74	47	61	12	22	28	325			614	12384	325	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
			LS								LS			614	12420	LS		DETOUR SIGNING	
			15	95	90	75	67	41	27	74	484			614	13310	484	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
			15	95	90	75	67	41	27	74	484			614	13360	484	EACH	OBJECT MARKER, TWO WAY	
180											180			614	18601	180	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	28
11.18				0.37	0.19	0.37	0.22	0.15	0.37		12.85			614	20110	12.85	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
				0.01		0.01				0.11	0.13			614	20356	0.13	MILE	WORK ZONE LANE LINE, CLASS I, 6", 873	
21.26											21.26			614	20560	21.26	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
6.62			1.38	3.23	0.91	2.85	0.94		1.65	0.44	18.02			614	21100	18.02	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
				0.17	2.25	0.19	1.81		0.11	1.03	5.56			614	21350	5.56	MILE	WORK ZONE CENTER LINE, CLASS I, 873	
12.78											12.78			614	21550	12.78	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
1.28			1.09	5.52	0.87	5.07	1.13	1.07	8.2	1.55	25.78			614	22110	25.78	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
				0.01	2.39	0.06	1.95	0.75		1.67	6.83			614	22326	6.83	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 873	
5.06											5.06			614	22360	5.06	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
								200		1,164	1,364			614	23130	1,364	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 873	
3,156				894	835	775	1,258	377	1,021	1,578	9,894			614	23210	9,894	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
8,926											8,926			614	23690	8,926	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
				540		540			495	900	2,475			614	24122	2,475	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 873	
			1,800	1,252	805	1,267	854	900	914	808	8,600			614	24202	8,600	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT	
1,600											1,600			614	24612	1,600	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	
742				288	304	329	379		170	216	2,428			614	25200	2,428	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
1,142											1,142			614	25620	1,142	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS III, 642 PAINT	
693				329	189	280	138		126	55	1,810			614	26200	1,810	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
					14	11	12			18	55			614	26400	55	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
1,144											1,144			614	26610	1,144	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
2,665				623	45	1,135			517		4,985			614	27050	4,985	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT	
4,068											4,068			614	27250	4,068	FT	WORK ZONE CROSSWALK LINE, CLASS III, 12", 642 PAINT	
72				18	17	19	24		5	14	169			614	30200	169	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT	
120											120			614	30650	120	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	
74											74			614	32800	74	SF	WORK ZONE ISLAND MARKING, CLASS III, 642 PAINT	
	120										120			614	40051	120	EACH	BUSINESS ENTRANCE SIGN, AS PER PLAN	29
											LS			615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
			2,278	17,920		14,439					7,333			615	20001	41,970	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	30
1,100											1,100			616	10000	1,100	MGAL	WATER	
			1,080	8,090	7,919	7,621	6,179	3,930	2,519	7,125	44,463			622	41100	44,463	FT	PORTABLE BARRIER, UNANCHORED	
10											10			625	31507	10	EACH	PULL BOX REMOVED AND REPLACED, AS PER PLAN	28
450											450			642	00720	450	FT	CHEVRON MARKING, TYPE 1	
		250,000									250,000			SPECIAL	69098000	250,000	EACH	REIMBURSEMENT FOR MOT ITEMS PERMANENTLY DAMAGED BY TRAFFIC	30

GENERAL SUMMARY

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388
1088