

QUANTITY, EARTHWORKS, DRAINAGE AND ITEM DETAIL SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES				DETAILED SUMMARY OF QUANTITIES				GRADES AND EARTHWORK										EARTHWORK SUMMARY		UNDERDRAIN AND CARRIER PIPE															
EROSION CONTROL	BRIDGE	ROADWAY	GRAND TOTAL	UNIT	PAY ITEM	PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM	V.C.	% GRADE	STATION	ELEVATION ON TANGENT	ELEVATION ON CURVE	V.C. CORR.	DIST. (FT.)	AREA (SF)	VOL. (CY)	AREA (SF)	VOL. (CY)	AREA (SF)	VOL. (CY)	STATION TO STATION	TYPE	P	D	L	TRENCH EXCAVATION	SPAND	FB	REMARKS				
			1	LS	CLEARING AND GRUBBING	201.10			COMMON EXCAVATION																										
			787	LF	REMOVAL AND DISPOSAL OF EXISTING GUARD RAIL	202.40	4931	CY	ROADWAY																										
			8700	CY	COMMON EXCAVATION	203.15	3704	CY	ROADWAY - UNSUITABLE MATERIAL																										
			350	CY	SAND BORROW	203.31	65		ROUNDING																										
			6500	CY	GRANULAR BORROW (ALL FILLS)	203.32	2700		TOTAL																										
			14000	CY	ROCK BORROW - SHEAR KEY	203.33			SAND BORROW																										
			550	CY	GRAVEL BACKFILL FOR SLOPE STABILIZATION	203.35																													
			80	CY	TRENCH EXCAVATION OF EARTH	204.20	317	CY	UNDERDRAIN - FILTER																										
			10	CY	TRENCH EXCAVATION OF ROCK	204.21	33	CY	ROUNDING																										
			14000	CY	STRUCTURE EXCAVATION - SHEAR KEY	204.25																													
			3000	CY	SUBBASE OF GRAVEL	204.15	350	CY	TOTAL																										
			800	Ton	PLANT MIXED BASE COURSE	203.25			SURFACE OF GRAVEL																										
			135	Ton	BITUMINOUS CONCRETE PAVEMENT TYPE II	206.25	2979	CY	ROADWAY																										
			5	CY	CONCRETE CLASS B	501.25	20	CY	DRIVES EST.																										
			296	LB	REINFORCING STEEL	507.15	778	CY	MAINTENANCE OF TRAFFIC																										
			78	LF	18" ACCOMP. 664	501.52	23	CY	ROUNDING																										
			12	LF	24" ACCOMP. 064	501.52			BITUMINOUS CONCRETE PAVEMENT TYPE II																										
			2	LF	1/2" RCP CLASS III	501.312	1304	Ton	1 3/4" COURSE																										
			1	EA	6" CAST IRON GRATE W/DRAINS TYPE A	504.45																													
			22	LF	6" UNDER DRAIN	505.101	46	Ton	ROUNDING																										
			2	EA	UNDER DRAIN FLUSHING PAVIN	505.75	1350	Ton	TOTAL																										
			6	EA	WOOD MARKER POSTS	519.15			FILTER FABRIC MATERIAL TYPE III																										
			970	LF	REMAINING AND RESETTING FENCE	520.50																													
			900	LF	TEMPORARY BARRIER RAIL EST.	521.25	1214	SY	UNDER DRAIN																										
			1000	LF	TEMPORARY BARRIER RAIL EST.	521.56	1778	SY	SHEAR KEY																										
			1	EA	BREAKAWAY CABLE TERMINAL FOR GUARD RAIL, STEEL BEAM W/ WOOD POSTS	521.77	11	SY	ROUNDING																										
			26	EA	UNIFORMED TRAFFIC OFFICERS	520.10	3000	SY	TOTAL																										
			26	EA	FLAG PERSONS	520.15																													
				LS	MOBILIZATION	525.10																													
			3000	SY	FILTER FABRIC MATERIAL TYPE III	544.12																													
			180	LB	SEED EST	557.12																													
			100	LB	SEED - WINTER RYE EST	557.12																													
			300	LB	FERTILIZER EST	557.15																													
			3	Ton	AGRICULTURAL LIMESTONE EST	557.20																													
			6	Ton	HAY MULCH EST	557.25																													
			1000	LF	SILT FENCE EST	557.30																													

EARTHWORK SUMMARY

EARTH EXCAVATION (ROADWAY)	4931	CY
EARTH EXCAVATION (SUITABLE MATERIAL BELOW 5')	3704	CY
TOTAL	8635	CY

NOTE:
ALL MATERIALS EXCAVATED ON THIS PROJECT ARE TO BE DISPOSED OF OFF SITE OR AS DIRECTED BY THE ENGINEER

EARTH EXCAVATION	8635	CY
TRENCH EXCAVATION (TE 77-78.7)	84	CY
UNDERDRAIN EXCAVATION	317	CY
STRUCTURE EXCAVATION	12975	CY
TOTAL MATERIAL TO DISPOSE OF	22011	CY

TOTAL MATERIAL FOR FILLS		
GRANULAR BORROW ITEMS		
ROADWAY EMBANKMENT	5495	CY
FACTOR 0.15	824	CY
PIPE TRENCH	84	CY
TOTAL	6403	CY

UNDERDRAIN AND CARRIER PIPE

STATION TO STATION	TYPE	P	D	L	TRENCH EXCAVATION	SPAND	FB	REMARKS	
	U	S	(IN)	(FT)	(CY)	(CY)	(EA)		
15225 1249	✓	R	6	224	136	-	136	1	
15425 17445		R						521	
17251 20149	✓	R	6	282	181	-	181	1	
17452 20149		R						632	
COLUMN TOTALS					2522	317	-	317	2

GUARD RAIL, THREE CABLE W/LT POSTS

STATION TO STATION	P	MEASURED LENGTH	POST SPACING	FACTORS	PAY LENGTH	ANCHORS	REMARKS
	S	(FT. & IN.)	(FT. & IN.)		(LF)	(EA)	
COLUMN TOTALS							

GUARD RAIL, BOX BEAM W/ST POSTS

STATION TO STATION	P	POST SPACING	PAY LENGTH	REMARKS
	S	(FT. & IN.)	(LF)	
COLUMN TOTALS				

DRAINAGE STRUCTURES

STATION	POS	ASKEW	TYPE	DITCH	RCP	ACCOMP	OPTION	PIPES	MES.	DI	CONC.	REINF.	DI	CRM	TRENCH	EXC.	ST FILL	REMARKS
			IN/OUT	IN	OUT	CL.	D	L	REP	TR.	CL.	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	
14102	E	34/1	SH/								1.0	15			7	2		1 RETAIN & EXTEND 6' ON NEW INLET
16450	E	34/1	SH/												10	2		12 COMP - REMOVE
17450	E	34/1	SH/								6.8	3.0	270	A	41			1 W/ 2' Coupling Bands
214325	E	75/41	SH/								1.0	13			11	3		1 RETAIN & EXTEND 12' ON NEW INLET
COLUMN TOTALS																		

GUARD RAIL, STANDARD STEEL BEAM WITH WOOD POSTS, TYPE II 62128

STATION TO STATION	P	MEASURED LENGTH	POST SPACING	FACTORS	PAY LENGTH	ANCHORS	REMARKS
	S	(FT. & IN.)	(FT. & IN.)		(LF)	(EA)	
12458 22427	LT	587.6	6'-3"	1.0	3675	1	Include 2' for end at 12458 - 15' OFFSET FROM 22427.5 = 2049.5
TOTAL					3675	1	
REMOVAL AND DISPOSAL OF EXISTING GUARD RAIL, ITEM 202.40							
14172 22409	LT	737			737		

TYPE OF CONSTRUCTION:

STATIONS	PAVEMENT WIDTHS	EQUATIONS	REMARKS
FROM	TO	+ -	
COLUMN TOTALS			

LENGTH OF PROJECT

STATION	STATION	FEET	MILES	REMARKS
COLUMN TOTALS				

PROJECT NAME: ESSEX JUNCTION ROAD PROJECT NO: 622340
SHEET 24 OF 60 SHEETS