STATE OF VERMONT DEPARTMENT OF HIGHWAYS Std. Macadam

EMONT PELIER-PLAINFIELD A. P. NO.

Form Eng. 3A Summary Sheet No. 192

APPROXIMATE SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS	ITEM NUMBER
	Cu. Yds.	Common Excavation	10
1000	Cu. Yds.	Solid Rock Excavation	10
	Cu. Yds.	Borrow	11
27000	Cu. Yds.	Common Excavation including Borrow	10–11
	Cu. Yds.	Sub-base of Field or Quarry Stone	12A
	Cu. Yds.	Sub-base of Crushed Rock or Slag	12B
30,000	Cu. Yds.	Sub-base of Gravel	12[redacted]B
	Cu. Yds.	Telford Base Course	12D
	Cu. Yds.	Sub-base of Sand	12E
15	Day-s	Patrol Maintenance	13
	Cu. Yds.	Structure Excavation	15
3049	Cu. Yds.	Broken Stone Base Course (3)	16
	Cu. Yds.	Gravel Surface Course	20A
	Cu. Yds.	Gravel Surface Course (Crushed)	20B
	Cu. Yds.	Gravel Shoulders	21
2542	Cu. Yds.	Bituminous Macadam Surface Course 2½"	22A
100722	Gals.	Oil Asphalt	22[redacted]C
	Gals.	Refined Tar	22C
	Cu. Yds.	One Course Cement Concrete Pavement Type A	23 A
	Cu. Yds.	One Course Cement Concrete Pavement Type B	23B
	Sq. Yds.	Bituminous Concrete Surface Course	
	Sq. Yds.	Single Bituminous Surface Treatment	25
	Sq. Yds.	Double Bituminous Surface Treatment	26
	Sq. Yds.	Natural Rock Asphalt Surface	27
	Cu. Yds.	Concrete Class AA (1-1½-3)	34AA
175	Cu. Yds.	Concrete Class A [redacted]	33A [redacted]
	Cu. Yds.	Concrete Class ~~B (1-2½-5)~~	34B
7500	lbs.	Reinforcing Steel	34 [redacted]
	lbs.	Structural Steel	36A
	Lump Sum	Steel Superstructure	36B
	Sq. Yds.	Waterproofing Membrane	37
350	Cu. Yds.	Cement Rubble Masonry	43
	Cu. Yds.	Dry Rubble Masonry	44
	Sq. Yds.	Repointing Masonry	45
	Lin. Ft.	6" Vitrified Clay Pipe	50B
	Lin. Ft.	8" Vitrified Clay Pipe	50C
	Lin. Ft.	10" Vitrified Clay Pipe	50D
	Lin. Ft.	12" Vitrified Clay Pipe	50E

APPROXIMATE SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS		ITEM NUMBER
	Lin. Ft.	12"	Pipe	
	Lin. Ft.	15"	Pipe	
	Lin. Ft.	16"	Pipe	
	Lin. Ft.	18"	Pipe	
	Lin. Ft.	24"	Pipe	
	Lin. Ft.	30"	Pipe	
	Lin. Ft.	36"	Pipe	
912 - 1040	Lin. Ft.	12" Reinf. Conc	Pipe	49A
	Lin. Ft.	15"	Pipe	49B
	Lin. Ft.	16"	Pipe	
608	Lin. Ft.	18"	Pipe	49C
20	Lin. Ft.	24"	Pipe	49D
	Lin. Ft.	30"	Pipe	
	Lin. Ft.	36"	Pipe	
150	Lin. Ft.	Relaying Pipe Culverts		51
	Lump Sum			
	Sum	Temporary Bridge		55
	Lin. Ft.	Timber Piling		56
	M. B. M.	Timber Grillage		57
	Cu. Yds.	Stone Fill		60
	Cu. Yds.	Plain Rip Rap		61
75	Cu. Yds.	Rip Rap for Bank Protection (Est)		62
1195	Lin. Ft.	Std [redacted] Underdrain With 6" P.C.G.M.P. BIT. COATED		65B
216	Lin. Ft.	Wood Guard Rail		66
1480	Lin. Ft.	Cable Guard Rail WITH WOOD POSTS		67A
20	Each	Guide Posts of Wood		68 [redacted] A
	Cu. Yds.	Plain Rubble Paving		70A
	Cu. Yds.	Grouted Rubble Paving		70B
1	EACH	STATE OR FEDERAL AID MARKERS		69
	Sq. Yds.	Plain Cement Concrete Gutter		73
	Sq. Yds.	Plain Cobble Gutter		74A
500	Sq. Yds.	Grouted Cobble Gutter		74B
	Each	Leaching Basins		75
11	Each	Catch Basins OF BRICK		76A
	Each	Changing Elevations of Manholes and Catch Basins		77
13	Each	Drop Inlet Grates		78

Contract Total DETAILED SUMMARY OF QUANTITIES

		Solid Rock Excavation		
500	Cy.	Roadway (Est)		
167	"	Culverts x Factors		
333	"	Overrun		
1000	"	Total		
		Common Excav. Incl. Borrow		
13821	Cy	Roadway as per plans		
3321	"	Borrow		
2635	"	Culverts x Factor		
1360	"	Underdrain x Factor		
261	"	Retaining Walls		
5602	"	Overrun		
27000	"	Total		
		Sub-base of Gravel		
25881	Cy	Roadway as per plans		
1000	"	Driveways & Culverts		
261	"	Ret. Wall Backfill		
2858	"	Overrun		
30,000	"	Total		
42.1	Cy	Concrete Class A Pipe Culverts		
8.1	"	Box Culverts (Repairs)		
97.5	"	Wall at Plainfield		
27.3	"	Curb & Gutter & Overrun		
175.0	"	Total		
		Reinforcing Steel		
3620	lbs	Pipe Culverts		
600	"	Boxes		
1300	"	Wall at Plainfield		
1980	"	Curb, Gutter, & Overrun		
7500		Total		
		Cement Rubble Masonry		
14.0	Cy	Culvert Headwalls		
293.5	"	Retaining Walls		
42.5	"	Overrun		
350.0	"	Total		
		Grouted Cobble Gutter		
229	Sqyds	As per plans		
271	"	Overrun		
500	"	Total		

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

F. A. P. NO.

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Type of Road BITUMINOUS MACADAM SURFACE COURSE

STATIONS FROM	STATIONS TO	EQUATIONS +	EQUATIONS −	
				Government Participation
				Common Excavation Incl. Borrow
				13709 cy Roadway as per Section
				2495 " Borrow
				2635 " Culverts x Factor
				1360 " Underdrain x Factor
				261 " Retaining Walls
				5040 " Overrun
				25500 " Total
				Sub-base of Gravel
				25384 cy Roadway as per plans
				1000 " Driveway & Culverts
				261 " Ret. Wall - Backfill
				2755 " Overrun
				29400 cy Total
				Broken Stone Base Course
				2898 cy
				Broken Stone Surface Course
				2416 cy
				Oil Asphalt
				95744 gals
				Non-Govt. Participation
				Common Excavation Inc. Borrow
				112 cy Roadway as per Sections
				826 " Borrow
				562 " Overrun
				1500 cy
				Subbase of Gravel
				497 cy Roadway as per plans
				103 " Overrun
				600 cy
				Broken Stone Base Course
				151 cy
				Broken Stone Surface Course
				126 cy
				Oil Asphalt
				4978 gals