

SUMMARY OF QUANTITIES

CHANNEL EXCAV. & EMB. (Including topsoil salvaged and stockpiled)

Sheets N ^o	Excav. Cu.Yds.	Emb. Cu.Yds.	Emb.+20% Cu.Yds.	Waste Cu.Yds.	Borrow Cu.Yds.
Plan x-sections					
4 9,10,11,12,13	4185	1309	1570	2615	0
4 9,10,11,12,13	1043	467	560	483	0
Totals	5228	1776	2130	3098	0

3098-Cu.Yds.Waste-Use to Supply Roadway Borrow.

MANHOLES

Items N ^o	Sheet N ^o	N ^o	Remarks
1-M	4	1	I-8 M.H.N ^o 1
2-M&3-M	4	2	Special
TOTAL		3	

STORM SEWERS

Items N ^o	Sheet N ^o	Pipe Lin. Ft.		Conc. 1:5 1/2 Cu.Yds.	Reinf. Steel Lbs.
		12"	24"		
1-5 to 3-5	4	82	302	2.05	52
TOTALS		82	302	2.05	52

PAVEMENT CALCULATIONS
 Beginning of Project 651+00
 End of Project 660+75
 Net Length of Project **975.00 Lin.Ft.**

CONCRETE PAVEMENT (20'-2" wide)
 Sta. 651+00 Begin Pavement to Sta. 660+75 End Pavt. = 975 Lin.Ft. less Bridge and Approach Slabs (Sta. 658+07.42 to 658+92.58) 85.16 Lin.Ft. = 889.84' 889.84' x 20.17' = 17948.1 sq.ft. ÷ 9 = 1994.2 Sq.Yds. 1994.2 Sq.Yds. + 445 Sq.Yds. in Dock Rd. Int. = 2439.2 Sq.Yds.

FURNISHING, PLACING & DRESSING TOP SOIL FOR SEEDING AND SODDING
 Sta. 650+38.66 to Sta. 665+39.81 = 1501.15 ft. less 49.50 ft. across Bridge (Sta. 658+25.25 to 658+74.75) + 130 ft. on Dock Road Intersection = 1581.65 Lin.Ft. (10'x10'+10'x125'+290'x222.50) = 1581.65' less length covered with I-17 = 1359.15. Use **1359** Lin.Ft. Furnishing, Placing & Dressing Top Soil for Seeding and Sodding.

CATCH BASIN

Items N ^o	Sheet N ^o	N ^o	Remarks
1-B	4	1	I-8 C.B. N ^o 6
TOTAL		1	

GUARD RAIL

Items N ^o	Sheet N ^o	Lin. Ft.	Remarks
1-R to 4-R	4	128	Type S
TOTAL		128	

PAVEMENT REMOVED & DISPOSED OF

Sheet N ^o	Sq.Yds.
4	2627
TOTAL	2627

EXCAVATION & EMBANKMENT (Roadway)

From Station	To Station	Excav. Cu.Yds.	Emb. Cu.Yds.	Emb.+20% Cu.Yds.	Waste Cu.Yds.	Borrow Cu.Yds.
650+38.66	665+39.81	1814	2266	2719	0	905
and Dock Rd. Int. 658.25		33	2980	3576	0	3543
658+74.75	665+39.81					
TOTALS		1847	5246	6295	0	4448

* Above borrow less waste channel excav. including topsoil waste 3098 = 1350 Cu.Yds. Total Rdwy Borrow

TREES REM. & DISPOSED OF

Sheet N ^o	N ^o
4	14
TOTAL	14

HAND LAID RIP-RAP

Items N ^o	Sheet N ^o	Sq.Yds.
1-A to 8-A	4	272
TOTAL		272

T-B SIDE APPROACHES

Sheet N ^o	Aggregate Cu.Yds.
4	TOTAL = 162

TOTAL OF QUANTITIES

ROADWAY

E-1	1847	Cu.Yds. Roadway Excavation (Unclassified)
E-11	26	M. Gal. Watering Embankment (Estimated)
E-3	5228	Cu.Yds. Channel Excavation (To supply borrow)
E-4	1350	Cu.Yds. Borrow (contractor to furnish)
E-8	2627	Sq.Yds. Removal & Disposal of Existing Pavement
E-9	14	Trees Removed & Disposed of
I-2	82	Lin.Ft. 12" pipe, Storm Sewers
I-2	302	Lin.Ft. 24" pipe, Storm Sewers
S-1	2.1	Cu.Yds. 1:5 1/2 concrete for headwalls
S-4	52	Lbs. Reinforcing steel for headwalls
I-8	1	Manhole, Standard N ^o 1
I-8	2	Manholes, Standard N ^o 1, Modified
I-8	1	Catch Basin, Standard C.B. N ^o 6 (with castings)
I-10	272	Sq.Yds. Hand Laid Rip-rap
I-15	128	Lin.Ft. Type S Guard Rail
I-17	162	Cu.Yds. aggregate for Traffic Bound side approaches

PAVEMENT
 T-70 2439.2 Sq.Yds. 10'-8"-8'-10" Portland Cement Concrete Pavement.

ROADSIDE IMPROVEMENT

I-21G	1359	Lin.Ft. Furnishing, Placing & Dressing Top Soil for Seeding & Sodding
I-21G	560	Cu.Yds. Topsoil salvaged & Stockpiled
I-21G	3812	Sq.Yds. Seeding area, Prepared, Seeded, Fertilized & Mulched

FURNISHED AND PLANTED COMPLETE

CONDITION	CALIPER	HEIGHT	SPREAD
I-21G	7	Each Acer rubrum (Red Maple)	1 1/2' to 3'
I-21G	2	Each Ulmus americana (American Elm)	1 1/2' to 2'
I-21G	56	Each Sambucus canadensis (American Elder)	3' to 4'
I-21G	99	Each Rosa palustris (Swamp Rose)	2' to 3'
I-21G	186	Each Clethra alnifolia (Sweet Pepper Bush)	2 1/2' to 3'
I-21G	27	Each Benzoin aestivale (Spice Bush)	3' to 4'
I-21G	51	Each Aronia arbutifolia (Red Chokeberry)	2' to 3'
I-21G	74	Each Viburnum cassinoides (Witte Rod)	2' to 3'
I-21G	4	Each Acer saccharum (Sugar Maple)	1 1/2' to 3'

I-21G 2 Existing Maple Trees to be moved - 10 inch
 I-21G 1 Existing Ash Tree to be moved - 10 inch
 I-1G 790 Seeding (old channel), (estimated)

STRUCTURES OVER 20' SPAN
 See sheet N^o 15