

SUMMARY OF QUANTITIES

CODE	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	141
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	78
20200100	EARTH EXCAVATION	CU. YD.	560
20300100	CHANNEL EXCAVATION	CU. YD.	80
20400800	FURNISHED EXCAVATION	CU. YD.	345
* 25000200	SEEDING, CLASS 2	ACRE	1.0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90
* 25100115	MULCH, METHOD 2	ACRE	1.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	60
28000305	TEMPORARY DITCH CHECKS	FOOT	40
28000400	PERIMETER EROSION BARRIER	FOOT	1300
28100105	STONE RIPRAP, CLASS A3	SQ. YD.	355
28100207	STONE RIPRAP, CLASS A4	TON	409
28200200	FILTER FABRIC	SQ. YD.	610
* 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	519
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU. YD.	135
50300225	CONCRETE STRUCTURES	CU. YD.	86
50300280	CONCRETE ENCASEMENT	CU. YD.	7.6
* 50400105	PRECAST CONCRETE BRIDGE SLAB	SQ. FT.	1831
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6720
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	140
51200957	FURNISHING METAL SHELL PILES 12" x 0.250"	FOOT	442
51202305	DRIVING PILES	FOOT	442
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
54200223	PIPE CULVERTS, CLASS D, TYPE 1, 18"	FOOT	25
60100965	PIPE DRAINS 18"	FOOT	65
60100975	PIPE DRAINS 21"	FOOT	20
67100100	MOBILIZATION	L. SUM	1
Δ 78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4
* X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
* X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

TREE REMOVAL 6 TO 15 UNITS DIAMETER

STA	OFSET	RT/LT	UNITS
13+50	42'	RT	12
14+52	24'	RT	12
14+52	27'	RT	12
14+41	38'	RT	10
14+41	38'	RT	10
14+41	38'	RT	10
14+82	45'	RT	12

STA	OFSET	RT/LT	UNITS
14+97	33'	LT	13
15+00	50'	LT	13
15+06	41'	LT	7
15+06	41'	LT	8
15+18	42'	LT	7
15+43	49'	LT	8
15+46	41'	LT	7
TOTAL			141

TREE REMOVAL OVER 15 UNITS DIAMETER

STA	OFSET	RT/LT	UNITS
13+03	22'	RT	18
13+30	27'	RT	24
14+03	30'	RT	36
TOTAL			78

EARTHWORK SCHEDULE

1 LOCATION	2 EARTH EXCAVATION CU YD	3 STRUCTURE EXCAVATION CU YD	4 CHANNEL EXCAVATION CU YD	5 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	6 EMBANKMENT CU YD	7 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
STA 13+00 TO STA 14+64.25	86	60	20	125	278	-153
STA 15+35.75 TO STA 19+00	474	75	20	427	619	-192
TOTAL	560	135	40	552	897	-345

COLUMN 1,2,&6 - LOCATION AND QUANTITIES FROM CROSS SECTIONS,
 CUT = EARTH EXCAVATION FILL = EMBANKMENT
 COLUMN 3 - QUANTITIES OF STRUCTURAL EXCAVATION (CUT) FROM BRIDGE PLANS
 COLUMN 4 - QUANTITY OF CHANNEL EXCAVATION (CUT) REDUCED 50% FOR UNSUITABLE MATERIAL FOR USE AS FILL
 COLUMN 5 - QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25%
 COLUMN 7 - EARTHWORK BALANCE (-) = QUANTITY OF FURNISHED EXCAVATION NEEDED EARTHWORK BALANCE
 (+) = QUANTITY OF EARTH EXCAVATION ADJUSTED FOR SHRINKAGE TO BE WASTED

GENERAL NOTES

- TEMPORARY EROSION CONTROL TO BE IMPLEMENTED PER THE PLANS AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE POSTIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS AND PREVENT DRAINAGE OR PONDING OF WATER ONTO PRIVATE PROPERTY.
- THE FOLLOWING APPLICATION RATES HAVE BEEN USED TO CALCULATE THE ITEMS NECESSARY FOR SEEDING CLASS 2:
 FERTILIZER NUTRIENTS:
 NITROGEN 90 LBS PER ACRE
 PHOSPHOROUS 90 LBS PER ACRE
 POTASSIUM 90 LBS PER ACRE
 MULCH 2 TONS PER ACRE
 THE SEEDING MIXTURE SHALL CONFROM TO ROADSIDE MIXTURE TYPE 2, DURING THE PERIOD BETWEEN NOVEMBER 1 AND DECEMBER 1. THE CONTRACTOR SHALL SUBSTITUTE 10 POUNDS OF PERENNIAL RYE FOR 48 POUNDS OF OATS, SPRING.
- ONLY TREES OR SHRUBS MARKED FOR REMOVAL BY THE ENGINEER SHALL BE REMOVED BY THE CONTRACTOR.
- ALL DISTURBED EARTH SURFACES WITHIN THE LIMITS OF THE R.O.W. AND EASEMENTS SHALL BE SEEDDED AS DIRECTED BY THE ENGINEER.