

EARTHWORK QUANTITIES

ROADWAY EARTHWORK

PRE-STAGE				STAGE 1				STAGE 2						
STATION	CUT (SY)	FILL (SY)	CUT (CY)	FILL (CY)	CUT (SY)	FILL (SY)	CUT (CY)	FILL (CY)	CUT (SY)	FILL (SY)	CUT (CY)	FILL (CY)		
911+20.00	7.00	7.17			45.47	0.84			45.56	0.05				
			7.00	10.00			48.00	0.00			51.00	2.00		
911+50.00	6.32	10.46			41.58	0.00			47.00	3.97				
			10.00	38.00			74.00	10.00			80.00	23.00		
912+00.00	4.51	30.87			38.71	11.33			38.94	20.46				
			10.00	52.00			60.00	37.00			63.00	44.00		
912+50.00	6.03	24.88			26.19	28.18			29.34	26.97				
			12.00	35.00			39.00	60.00			41.00	51.00		
913+00.00	6.63	12.97			15.70	36.83			15.37	27.82				
			16.00	21.00			15.00	82.00			17.00	59.00		
913+50.00	10.49	9.55			0.73	52.16			3.24	35.65				
			18.00	15.00			1.00	113.00			3.00	84.00		
914+00.00	8.42	6.11			0.00	70.08			0.00	55.15				
			15.00	7.00			0.00	119.00			0.00	122.00		
914+50.00	7.63	1.61			0.00	58.10			0.00	76.44				
			13.00	2.00			38.00	167.00			0.00	187.00		
915+00.00	5.97	0.97			40.68	122.56			0.00	125.84				
			11.00	2.00			70.00	246.00			0.00	264.00		
915+50.00	5.99	0.94			35.29	142.69			0.00	159.39				
			9.00	3.00			65.00	217.00			0.00	261.00		
915+89.50	5.96	3.44			53.41	153.38			0.00	196.81				
OMISSION BRIDGE SN 022-0181														
916+89.50	5.76	2.11			0.00	151.45			0.00	166.24				
			2.00	1.00			0.00	63.00			0.00	67.00		
917+00.00	6.09	1.07			0.00	142.72			0.00	146.88				
			12.00	8.00			0.00	277.00			0.00	283.00		
917+50.00	6.43	7.72			0.00	156.24			0.00	158.58				
			11.00	10.00			0.00	249.00			0.00	253.00		
918+00.00	5.14	2.69			0.00	112.93			0.00	114.18				
			11.00	5.00			0.00	187.00			0.00	184.00		
918+50.00	6.40	2.48			0.00	88.60			0.00	84.88				
			12.00	4.00			0.00	152.00			0.00	119.00		
919+00.00	6.83	1.59			0.00	75.99			0.00	44.00				
			12.00	4.00			1.00	120.00			1.00	60.00		
919+50.00	5.82	2.33			1.52	53.56			0.96	20.41				
			11.00	4.00			13.00	87.00			13.00	31.00		
920+00.00	6.25	1.58			12.71	40.60			13.21	13.12				
			11.00	4.00			39.00	57.00			40.00	26.00		
920+50.00	5.67	2.30			29.12	20.60			29.71	15.00				
			7.00	14.00			71.00	19.00			63.00	28.00		
921+00.00	2.26	13.13			47.38	0.00			38.41	14.91				
			8.00	13.00			95.00	0.00			84.00	14.00		
921+50.00	6.22	1.01			55.28	0.00			52.56	0.05				
			6.00	1.00			55.00	0.00			52.00	0.00		
921+75.00	6.24	1.36			62.80	0.00			59.35	0.00				
MAINTENANCE ROAD A			0.0	0.0			0.00	356.35			0.0	0.00		
MAINTENANCE ROAD B			0.0	0.0			0.00	276.79			0.0	0.00		
MAINTENANCE ROAD C			0.0	0.0			0.00	0.0			0.0	403.32		
PRE-STAGE SUBTOTAL			224	253	STAGE 1 SUBTOTAL			684	2895	STAGE 2 SUBTOTAL			508	2565

COMPENSATORY STORAGE SITE 1

STATION	CUT (SY)	FILL (SY)	CUT (CY)	FILL (CY)
1+00.00	171.34	0.00		
			116.00	0.00
1+10.00	456.77	0.00		
			352.00	0.00
1+30.00	492.98	0.00		
			344.00	0.00
1+50.00	434.77	0.00		
			436.00	0.00
1+80.00	349.79	0.00		
			231.00	0.00
2+00.00	275.19	0.00		
			199.00	0.00
2+27.00	123.61	0.00		
			9.00	0.00
2+30.00	43.84	0.00		
SUBTOTAL			1687	0

COMPENSATORY STORAGE SITE 2

STATION	CUT (SY)	FILL (SY)	CUT (CY)	FILL (CY)
100+78.92	477.54	0.00		
			604.00	0.00
100+99.32	1121.85	0.00		
			1091.00	0.00
101+30.00	798.26	0.00		
			599.00	0.00
101+60.00	280.59	0.00		
			178.00	0.00
101+92.25	16.70	0.00		
			13.00	0.00
102+09.77	21.98	0.00		
			195.00	0.00
102+50.00	240.34	0.00		
			341.00	0.00
102+90.00	220.36	0.00		
			306.00	0.00
103+30.00	192.16	0.00		
			260.00	0.00
103+70.00	158.71	0.00		
			214.00	0.00
104+10.94	124.18	0.00		
SUBTOTAL			3801	0

BRIDGE EARTHWORK

	STAGE 1	STAGE 2		
SIDE	CUT (CY)	FILL (CY)	CUT (CY)	FILL (CY)
W. ABUTMENT	326.48	0.00	273.23	0.00
E. ABUTMENT	248.72	0.00	208.74	0.00
SUBTOTAL		575.20	481.97	0.00

EARTHWORK TOTALS

DESCRIPTION	EARTH EXCAVATION (CY)	FURNISHED EXCAVATION (CY)
PRE-STAGE	225	253
STAGE 1	684	2895
STAGE 2	508	2565
COMP. STORAGE 1	1687	0
COMP. STORAGE 2	3801	0
BRIDGE STAGE 1	575	0
BRIDGE STAGE 2	482	0
GRAND TOTAL	7962	5713

UNDERCUT NOTES

- 1,682 CU YD OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL IS INCLUDED IN THE CONTRACT QUANTITIES FOR REMOVAL OF 1' OF TOPSOIL AT ALL LOCATIONS WHERE EMBANKMENT IS CONSTRUCTED ON TOP OF VEGETATED GROUND.
- AS DIRECTED BY THE ENGINEER, A 6 INCH THICK LAYER OF UNDERCUT MAY BE REQUIRED BELOW THE ACCESS ROADS. THIS UNDERCUT IS TO BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT, SUBGRADE UNDERLAIN BY GEOTECHNICAL FABRIC FOR GROUND STABILIZATION. SEE UNDERCUT LOCATIONS CHART FOR CONTRACT QUANTITIES.
- PER THE GEOTECHNICAL REPORT, A 24 INCH THICK LAYER OF UNDERCUT IS REQUIRED AT LOCATIONS SHOWN IN THE UNDERCUT LOCATION CHART. THE UNDERCUT IS TO BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT, SUBGRADE UNDERLAIN BY GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

UNDERCUT LOCATIONS

LOCATION	TREATMENT	DEPTH	WIDTH	QUANTITY		
				GEOTECH. FABRIC	PGES	REMOVAL AND DISPOSAL OF UNSUITABLE MAT.
STA. 915+00 TO STA. 915+89.50	PGES & GEOTECHNICAL FABRIC	24 IN.	25 FT. LEFT TO 40 FT. LEFT AND 25 FT. RIGHT TO 40 FT. RIGHT OF THE CENTERLINE	298 SQ YDS	199 CU YDS	199 CU YDS
STA. 916+88.50 TO STA. 918+00	PGES & GEOTECHNICAL FABRIC	24 IN.	25 FT. LEFT TO 40 FT. LEFT OF THE CENTERLINE	186 SQ YDS	124 CU YDS	124 CU YDS
ACCESS ROAD A	PGES & GEOTECHNICAL FABRIC	6 IN.	AS DIRECTED	633 SQ YDS	106 CU YDS	106 CU YDS
ACCESS ROAD B	PGES & GEOTECHNICAL FABRIC	6 IN.	AS DIRECTED	745 SQ YDS	159 CU YDS	159 CU YDS
ACCESS ROAD C	PGES & GEOTECHNICAL FABRIC	6 IN.	AS DIRECTED	693 SQ YDS	116 CU YDS	116 CU YDS
DRAINAGE SWALE 914+60 TO 916+30	PGES	12 IN.	63 FT. RIGHT TO 82 FT. RIGHT OF THE CENTERLINE	NONE	120 CU YDS	120 CU YDS
TOPSOIL STRIPPING	NONE	12 IN.	AS REQUIRED	NONE	NONE	1,682
TOTAL				2,556 CU YDS	823 CU YDS	2,505 CU YDS

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