

EARTHWORK BALANCE SHEET

Volumes in Cubic Yards

PROJECT: R-3830

COUNTY: Lee

DATE: 24-May-22

COMPILED BY: M. Lowery

SHEET 4 OF 4 SHEETS

STATION	STATION	LINE	EXCAVATION				EMBANKMENT				*BORROW	WASTE					
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH		*EMBANK. +20%	ROCK	SUITABLE	UNSUIT.	TOTAL	
TOTAL FROM PHASE 1 - STEP 1			11,469		600	1,592	9,877		67,278		67,278	81,454	72,361		784	2,192	2,976
TOTAL FROM PHASE 1 - STEP 1A			4				4		2,843		2,843	3,412	3,408				
TOTAL FROM PHASE 1 - STEP 2			437				437		4,505		4,505	5,406	4,969				
TOTAL FROM PHASE 2 - STEP 1			5,414			1,317	4,097		20,811		20,811	24,972	20,896		21	1,317	1,338
TOTAL FROM PHASE 3 - STEP 1			8,458			791	7,667		16,799		16,799	20,159	14,203		1,711	791	2,502
TOTAL			25,782		600	3,700	22,082		112,236		112,236	135,403	115,837		2,516	4,300	6,816
MATERIAL FOR SHOULDER CONSTRUCTION									2,290		2,290	2,748	2,748				
LOSS DUE TO CLEARING & GRUBBING			-2,400				-2,400						2,400				
ADDITIONAL UNDERCUT					1,320			1,320		1,320	1,584	1,584			1,320	1,320	
WASTE IN LIEU OF BORROW												-2,516		-2,516		-2,516	
PROJECT TOTAL			23,382		1,920	3,700	19,682		115,846		115,846	139,735	120,053		5,620	5,620	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT												6,003					
GRAND TOTAL			23,382		1,920	3,700	19,682		115,846		115,846	139,735	126,055		5,620	5,620	
SAY			25,700		2,000							138,700					

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

* INCLUDES BACKFILL FOR UNDERCUT

EST. DDE = 680 CUBIC YARDS

PER GEOTECH RECOMMENDATIONS DATED MAY 12, 2017:

SELECT GRANULAR MATERIAL = 600 CY + 1,200 (CONTINGENCY TO BE USED AT THE DISCRETION OF THE ENGINEER) = 1,800 CY

SHALLOW UNDERCUT = 5,070 CY (BY STATION) + 1,000 CY (CONTINGENCY TO BE USED AT THE DISCRETION OF THE ENGINEER) = 6,070 CY

SEE GEOTECHNICAL SUMMARIES ON SHEET 3G-1 FOR FURTHER INFORMATION

TOTAL UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACKFILL = 370 CY

-L- STA 174+75 TO 176+25 (30' LT TO 45' LT); -L- STA 193+25 TO 193+75 (20' RT TO 50' RT); -L- STA 230+25 TO 234+25 (15' LT TO 25' LT); -L- STA 254+25 TO 256+75 (CL TO 10' RT); -L- STA 269+75 TO 272+25 (15' LT TO 20' LT);

-Y3- STA 17+12 TO 19+08 (17' LT TO 23' LT; 17' RT TO 23' RT); -Y20- STA 11+87 TO 12+87 (27' RT TO 33' RT)

EARTHWORK BALANCE SHEET

Volumes in Cubic Yards

PROJECT: R-3830

COUNTY: Lee

DATE: 24-May-22

COMPILED BY: M. Lowery

SHEET 1 OF 4 SHEETS

STATION	STATION	LINE	EXCAVATION				EMBANKMENT				*BORROW	WASTE			
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH		*EMBANK. +20%	ROCK	SUITABLE	UNSUIT.
PHASE 1 - STEP 1															
18+00.00	50+00.00	-L- (LT)	1,260			123	1,137	5,098		5,098	6,118	4,981		123	123
17+20.63	19+35.35	-Y3-	134				134	85		85	102		32	32	
SUMMARY AREA 1 (18+00 to 50+00 LT):			SUBTOTAL			123	1,271	5,183		5,183	6,220	4,981		123	155
57+00.00	94+00.00	-L- (LT)	352			63	289	9,042		9,042	10,850	10,561		63	63
11+55.00	12+39.27	-Y6- (LT)						44		44	53	53			
10+50.00	11+59.02	-Y7-	1				1	68		68	82	81			
10+60.00	12+47.65	-Y8-	123			4	119	116		116	139	20	4	4	
SUMMARY AREA 2 (57+00 to 94+00 LT):			SUBTOTAL			67	409	9,270		9,270	11,124	10,715		67	67
94+00.00	123+50.00	-L- (LT)	435			102	333	2,376		2,376	2,851	2,518		102	102
11+20.00	12+11.36	-Y9-	18				18	22		22	26	8			
11+70.00	12+65.99	-Y11-	14				14	58		58	70	56			
10+15.00	11+52.98	-Y12-	6				6	86		86	103	97			
SUMMARY AREA 3 (94+00 to 123+50 LT):			SUBTOTAL			102	371	2,542		2,542	3,050	2,679		102	102
166+50.00	173+00.00 (TEMP)	-L- (LT)	58				58	77		77	92	34			
SUMMARY AREA 4 (166+50 to 173+00 LT TEMP):			SUBTOTAL				58	77		77	92	34			
173+00.00	179+00.00	-L- (LT)	397				397	269		269	323		74	74	
10+90.00	14+70.41	-Y16-	1,188		600	546	642	689		689	1,547	905		1,146	1,146
SUMMARY AREA 5 (173+00 to 179+00 LT):			SUBTOTAL		600	546	1,039	958		958	1,870	905		74	1,220
181+00.00	214+00.00 (TEMP)	-L- (LT)	730				730	448		448	538		192	192	
SUMMARY AREA 6 (181+00 to 214+00 LT TEMP):			SUBTOTAL				730	448		448	538		192	192	
288+50	304+90.86	-L- (LT)	55				55	549		549	659	604			
SUMMARY AREA 7 (288+50 to 304+90.86 LT):			SUBTOTAL				55	549		549	659	604			
13+25.00	18+00.00	-L- (RT)	456			322	134	2		2	2		132	322	454
SUMMARY AREA 8 (13+25 to 18+00 RT):			SUBTOTAL			322	134	2		2	2		132	322	454
18+00.00	37+00.00	-L- (RT)	122				122	4,708		4,708	5,650	5,528			
17+00.00	19+00.00	-Y1-	83				83						83	83	
10+38.50	11+51.52	-DRW1-	25				25	52		52	62	37			
10+38.50	11+70.00	-Y2-	10				10	48		48	58	48			
10+39.77	11+82.35	-DRW4-	222				222	7		7	8		214	214	
SUMMARY AREA 9 (18+00 to 37+00 RT):			SUBTOTAL				462	4,815		4,815	5,778	5,613		297	297
37+00.00	62+50.00	-L- (RT)	378				378	5,510		5,510	6,612	6,234			
10+38.50	16+40.00	-Y5-	56			56		389		389	467	467		56	56
SUMMARY AREA 10 (37+00 to 62+50 RT):			SUBTOTAL			56	378	5,899		5,899	7,079	6,701		56	56
74+00.00	94+00.00	-L- (RT)	595				595	3,725		3,725	4,470	3,875			
10+39.44	11+95.00	-DRW2-	3				3	179		179	215	212			
SUMMARY AREA 11 (74+00 to 94+00 RT):			SUBTOTAL				598	3,904		3,904	4,685	4,087			

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EARTHWORK BALANCE SHEET

Volumes in Cubic Yards

PROJECT: R-3830

COUNTY: Lee

DATE: 24-May-22

COMPILED BY: M. Lowery

SHEET 2 OF 4 SHEETS

STATION	STATION	LINE	EXCAVATION				EMBANKMENT				*BORROW	WASTE						
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH		*EMBANK. +20%	ROCK	SUITABLE	UNSUIT.	TOTAL		
PHASE 1 - STEP 1 (cont'd)																		
94+00.00	123+50.00	-L- (RT)	600			149	451	1,751		1,751	2,101	1,650				149	149	
SUMMARY AREA 12 (94+00 to 123+50 RT):			SUBTOTAL	600		149	451	1,751		1,751	2,101	1,650				149	149	
123+50.00	169+00.00	-L- (RT)	1,647				1,647	18,934		18,934	22,721	21,074						
10+38.50	11+25.00	-DRW3-	42				42	10		10	12		30				30	
10+38.50	12+15.00	-Y15-	44				44	672		672	806	762						
SUMMARY AREA 13 (123+50 to 169+00 RT):			SUBTOTAL	1,733			1,733	19,616		19,616	23,539	21,836	30				30	
214+00.00	240+00.00	-L- (RT)	1,190				1,190	4,745		4,745	5,694	4,504						
SUMMARY AREA 14 (214+00 to 240+00 RT):			SUBTOTAL	1,190			1,190	4,745		4,745	5,694	4,504						
240+00.00	266+00.00	-L- (RT)	1,109			227	882	3,858		3,858	4,630	3,748				227	227	
10+21.00	11+10.00	-Y18-	62				62	29		29	35		27				27	
SUMMARY AREA 15 (240+00 to 266+00 RT):			SUBTOTAL	1,171		227	944	3,887		3,887	4,665	3,748	27			227	254	
266+00.00	292+00.00	-L- (RT)	54				54	3,632		3,632	4,358	4,304						
SUMMARY AREA 16 (266+00 to 292+00 RT):			SUBTOTAL	54			54	3,632		3,632	4,358	4,304						
TOTAL FOR PHASE 1 - STEP 1			11,469		600	1,592	9,877	67,278		67,278	81,454	72,361	784			2,192	2,976	
PHASE 1 - STEP 1A																		
10+38.50	16+25.00	-Y13-	4				4	2,843		2,843	3,412	3,408						
SUMMARY AREA 17 (10+38.50 to 16+25.00 -Y13-):			SUBTOTAL	4			4	2,843		2,843	3,412	3,408						
TOTAL FOR PHASE 1 - STEP 1A			4				4	2,843		2,843	3,412	3,408						
PHASE 1 - STEP 2																		
169+00.00	179+00.00	-L- (RT)	437				437	4,505		4,505	5,406	4,969						
SUMMARY AREA 18 (169+00 to 179+00 RT):			SUBTOTAL	437			437	4,505		4,505	5,406	4,969						
TOTAL FOR PHASE 1 - STEP 2			437				437	4,505		4,505	5,406	4,969						
PHASE 2 - STEP 1																		
50+00.00	57+00.00	-L- (LT)	24				24	372		372	446	422						
11+55.00	12+39.27	-Y6- (RT)						36		36	43	43						
SUMMARY AREA 19 (50+00 to 57+00 LT):			SUBTOTAL	24			24	408		408	489	465						
123+50.00	165+00.00	-L- (LT)	242				242	5,212		5,212	6,254	6,012						
10+96.00	11+56.91	-Y14-	61				61	33		33	40		21				21	
SUMMARY AREA 20 (123+50 to 165+00 LT):			SUBTOTAL	303			303	5,245		5,245	6,294	6,012	21					21
165+00.00	173+00 (+ REM. TEMP)	-L- (LT)	20				20	1,091		1,091	1,309	1,289						
SUMMARY AREA 21 (165+00 to 173+00 LT +REM. TEMP):			SUBTOTAL	20			20	1,091		1,091	1,309	1,289						
62+50.00	74+00.00	-L- (RT)	26				26	2,227		2,227	2,672	2,646						
SUMMARY AREA 22 (62+50 to 74+00 RT):			SUBTOTAL	26			26	2,227		2,227	2,672	2,646						
179+00.00	214+00.00 (INCL. TEMP)	-L- (RT)	5,041			1,317	3,724	11,840		11,840	14,208	10,484				1,317	1,317	
SUMMARY AREA 25 (181+00 to 214+00 RT INCL TEMP):			SUBTOTAL	5,041		1,317	3,724	11,840		11,840	14,208	10,484	1,317				1,317	1,317
TOTAL FOR PHASE 2 - STEP 1			5,414			1,317	4,097	20,811		20,811	24,972	20,896	21			1,317	1,338	

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EARTHWORK BALANCE SHEET

Volumes in Cubic Yards

PROJECT: R-3830

COUNTY: Lee

DATE: 24-May-22

COMPILED BY: M. Lowery

SHEET 3 OF 4 SHEETS

STATION	STATION	LINE	EXCAVATION				EMBANKMENT				*BORROW	WASTE			
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH		*EMBANK. +20%	ROCK	SUITABLE	UNSUIT.
PHASE 3 - STEP 1															
18+00.00	29+00.00	-L- (MED)	35				35			642		642	770	735	
SUMMARY AREA 26 (18+00 to 29+00 MED):			SUBTOTAL	35			35			642		642	770	735	
31+50.00	33+50.00	-L- (MED)	2				2			48		48	58	56	
SUMMARY AREA 27 (31+50 to 33+50 MED):			SUBTOTAL	2			2			48		48	58	56	
34+00.00	41+00.00	-L- (MED)	5				5			622		622	746	741	
SUMMARY AREA 28 (34+00 to 41+00 MED):			SUBTOTAL	5			5			622		622	746	741	
41+50.00	60+00.00	-L- (MED)	73				73			1,354		1,354	1,625	1,552	
SUMMARY AREA 29 (41+50 to 60+00 MED):			SUBTOTAL	73			73			1,354		1,354	1,625	1,552	
61+50.00	76+50.00	-L- (MED)	9				9			1,934		1,934	2,321	2,312	
SUMMARY AREA 30 (61+50 to 76+50 MED):			SUBTOTAL	9			9			1,934		1,934	2,321	2,312	
76+50.00	93+00.00	-L- (MED)	86				86			589		589	707	621	
SUMMARY AREA 23 (76+50 to 93+00 MED):			SUBTOTAL	86			86			589		589	707	621	
113+00.00	119+00.00	-L- (MED)	44			41	3			175		175	210	207	41
SUMMARY AREA 24 (113+00 to 119+00 MED):			SUBTOTAL	44		41	3			175		175	210	207	41
179+00.00	207+00 (+ REM. TEMP)	-L- (LT)	2,472			439	2,033			5,075		5,075	6,090	4,057	439
SUMMARY AREA 31 (179+00 to 207+00 LT +REM. TEMP):			SUBTOTAL	2,472		439	2,033			5,075		5,075	6,090	4,057	439
207+00.00	235+00 (+ REM. TEMP)	-L- (LT)	2,701				2,701			2,061		2,061	2,473		228
11+60.00	12+51.74	-Y17-	7				7			30		30	36	29	
SUMMARY AREA 32 (207+00 to 235+00 LT +REM. TEMP):			SUBTOTAL	2,708			2,708			2,091		2,091	2,509	29	228
235+00.00	263+00.00	-L- (LT)	1,018			311	707			1,752		1,752	2,102	1,395	311
11+11.00	12+20.42	-Y19-								51		51	61	61	
SUMMARY AREA 33 (235+00 to 263+00 LT):			SUBTOTAL	1,018		311	707			1,803		1,803	2,163	1,456	311
263+00.00	288+50.00	-L- (LT)	152				152			2,059		2,059	2,471	2,319	
11+00.00	13+28.09	-Y20-	254				254			104		104	125		129
10+70.00	11+55.86	-Y21-	4				4			34		34	41	37	
10+60.00	11+52.63	-Y22-	2				2			69		69	83	81	
SUMMARY AREA 34 (263+00 to 288+50 LT):			SUBTOTAL	412			412			2,266		2,266	2,720	2,437	129
179+00.00	214+00 (REM. TEMP)	-L- (RT)	1,594				1,594			200		200	240		1,354
SUMMARY AREA 35 (181+00 to 214+00 RT REM. TEMP):			SUBTOTAL	1,594			1,594			200		200	240		1,354
TOTAL FOR PHASE 3 - STEP 1			8,458			791	7,667			16,799		16,799	20,159	14,203	2,502

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.