

GRADING REPORT

COMPUTED BY: David Jordan
CHECKED BY: Jay Morgan
FEDERAL PROJECT NO: PROT-31(19)
ROUTE NO. OR STREET: SR-31

SHEET 1 OF 9
STATE NO.: 34S031-F3-002
PIN:132360.00
COUNTY: Hancock

ESTIMATED GRADING QUANTITIES								
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY			
		EXC.	EMB.	EXC.	SHRINK = 10 %	SWELL = 10 %		
MAINLINE		8871	77	7984	EXC.	EMB.		
SIDE ROADS		0	0					
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES		7	0	7				
INDEPENDENT DITCHES		0	0					
TEMPORARY CONSTRUCTION EXITS		14	0	13				
TEMPORARY BERM (EXC.)		209	0	189				
TOPSOIL (EMB.) (1)		0						
TOPSOIL (EXC.)		0						
TOPSOIL TOTALS (SEE TOPSOIL TABLE)					WASTE MATERIAL = 8926 (2)			
ROCK (C.Y.)		TOTALS (C.Y.)						
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)			EXC. (AVAIL.)	EXC. (ADJ.)
0	0	9101	77	9101			9101	8191

- (1) NO TOPSOIL IS REQUIRED IN BUTTRESS AREAS.
(2) THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF 8926 CY EXCESS MATERIAL.

SR-31 Earthwork

BEGINNING EARTHWORKS COMPUTATION

Material Name	End Areas	Unadjusted	Adjusted	Mult	Mass	Accum
Station	Volumes	Volumes	Factor	Ordinate	Unadj	Vol
	(sq. ft.)	(cu. yd.)	(cu. yd.)			(cu. yd.)

110+00.00 EARTH						
Common Exc	3	0	0	1.00		0
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		0
Rock Fill	0	0	0	1.00	0	0
110+50.00 EARTH						
Common Exc	4	6	6	1.00		6
Subgrade Exc	0	0	0	1.00		0

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Subsoil Exc	0	0	0	1.00	0
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Fill	0	0	0	1.00	0
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111+00.00 EARTH

Common Exc	3	6	6	1.00	12
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Subgrade Exc	0	0	0	1.00	0
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Fill	0	0	0	1.00	0
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Rock Fill	0	0	0	1.00	0
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111+50.00 EARTH

Common Exc	3	6	6	1.00	18
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Subgrade Exc	0	0	0	1.00	0
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Fill	0	0	0	1.00	0
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Rock Fill	0	0	0	1.00	0
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112+00.00 EARTH

Common Exc	3	5	5	1.00	24
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Subgrade Exc	0	0	0	1.00	0
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Fill	0	0	0	1.00	0
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Rock Fill	0	0	0	1.00	0
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112+50.00 EARTH

Common Exc	3	5	5	1.00	30
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Subgrade Exc	0	0	0	1.00	0
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Fill	0	0	0	1.00	0
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Rock Fill	0	0	0	1.00	0
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113+00.00 EARTH

Common Exc	3	6	6	1.00	36
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Subgrade Exc	0	0	0	1.00	0
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Fill	1	1	1	1.00	1
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Rock Fill	0	0	0	1.00	1
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113+50.00 EARTH

Common Exc	5	7	7	1.00	43
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Subgrade Exc	0	0	0	1.00	0
Fill	6	6	6	1.00	0
Rock Fill	0	0	0	1.00	7

114+00.00 EARTH

Common Exc	6	6	6	1.00	53
Subgrade Exc	0	0	0	1.00	0
Fill	6	10	10	1.00	13
Rock Fill	0	0	0	1.00	13

114+50.00 EARTH

Common Exc	314	296	296	1.00	349
Subgrade Exc	0	0	0	1.00	0
Fill	0	0	0	1.00	13
Rock Fill	281	0	0	1.00	349

115+00.00 EARTH

Common Exc	594	841	841	1.00	1190
Subgrade Exc	0	0	0	1.00	0
Fill	1	1	1	1.00	14
Rock Fill	660	871	871	1.00	1190

115+50.00 EARTH

Common Exc	1090	1559	1559	1.00	2749
Subgrade Exc	0	0	0	1.00	0
Fill	1	2	0	1.00	16
Rock Fill	1145	1671	1671	1.00	2749

115+56.46 EARTH

Common Exc	959	245	245	1.00	2994
Subgrade Exc	0	0	0	1.00	0
Fill	0	0	0	1.00	16
Rock Fill	937	749	749	1.00	2994

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116+00.00 EARTH

Common Exc	1239	1772	1772	1.00		4766
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		16
Rock Fill	1468	1939	1939	1.00	4766	4730

116+50.00 EARTH

Common Exc	822	1908	1908	1.00		6674
Subgrade Exc	0	0	0	1.00		0
Fill	2	2	0	1.00		18
Rock Fill	1254	2520	2520	1.00	6674	7250

116+77.46 EARTH

Common Exc	756	802	802	1.00		7476
Subgrade Exc	0	0	0	1.00		0
Fill	2	2	2	1.00		20
Rock Fill	1166	1231	1231	1.00	7476	8481

117+00.00 EARTH

Common Exc	626	577	577	1.00		8053
Subgrade Exc	0	0	0	1.00		0
Fill	3	2	0	1.00		22
Rock Fill	961	888	888	1.00	8053	9369

117+40.00 EARTH

Common Exc	253	651	651	1.00		8704
Subgrade Exc	0	0	0	1.00		0
Fill	0	2	2	1.00		24
Rock Fill	248	896	896	1.00	8704	10265

117+50.00 EARTH

Common Exc	5	48	48	1.00		8752
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		24

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Rock Fill	0	0	0	1.00	8752	23
118+00.00 EARTH						
Common Exc	6	10	10	1.00		8765
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		24
Rock Fill	0	0	0	1.00	8762	10265
118+50.00 EARTH						
Common Exc	6	11	11	1.00		8776
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		24
Rock Fill	0	0	0	1.00	8773	10265
119+00.00 EARTH						
Common Exc	7	12	12	1.00		8788
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		24
Rock Fill	0	0	0	1.00	8785	10265
119+50.00 EARTH						
Common Exc	9	15	15	1.00		8803
Subgrade Exc	0	0	0	1.00		0
Fill	28	26	26	1.00		50
Rock Fill	0	0	0	1.00	8800	10265
120+00.00 EARTH						
Common Exc	7	15	15	1.00		8818
Subgrade Exc	0	0	0	1.00		0
Fill	1	27	27	1.00		77
Rock Fill	0	0	0	1.00	8815	10265
120+25.00 EARTH						
Common Exc	8	7	7	1.00		8822
Subgrade Exc	0	0	0	1.00		0

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Fill	0	0	0	1.00		77
Rock Fill	0	0	0	1.00	8749	10265
120+50.00 EARTH						
Common Exc	8	7	7	1.00		8829
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		77
Rock Fill	0	0	0	1.00	8829	10265
121+00.00 EARTH						
Common Exc	17	23	23	1.00		8852
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		77
Rock Fill	0	0	0	1.00	8852	10265
121+35.00 EARTH						
Common Exc	1	12	12	1.00		8864
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		77
Rock Fill	0	0	0	1.00	8864	10265
121+50.00 EARTH						
Common Exc	8	1	1	1.00		8865
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		77
Rock Fill	0	0	0	1.00	8865	10265
122+00.00 EARTH						
Common Exc	3	6	6	1.00		8871
Subgrade Exc	0	0	0	1.00		0
Fill	0	0	0	1.00		77
Rock Fill	0	0	0	1.00	8794	10265

G R A N D S U M M A R Y T O T A L S

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Material Name	Unadjusted	Adjusted	Mult
	Volumes	Volumes	Factor
	(cu. yd.)	(cu. yd.)	

EARTH

Common Exc	8871	8871	1.00
Subgrade Exc	0	0	1.00
Fill	77	77	1.00
Rock Fill	10265	10265	1.00

S P L I T S U M M A R Y T O T A L S

	XS Quant	XS Quant	Add/Sub Quant	Add/Sub Quant	
Material Name	Unadjusted	Adjusted	Unadjusted	Adjusted	Mult
	Volume	Volume	Volume	Volume	Factor
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

EARTH

Common Exc	8871	8871	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Fill	77	77	0	0	1.00
Rock Fill	10265	10265	0	0	1.00

Private Drive Earthwork

BEGINNING EARTHWORKS COMPUTATION

Material Name	End Areas	Unadjusted	Adjusted	Mult	Mass	Accum
Station		Volumes	Volumes	Factor	Ordinate	Unadj Vol

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(sq. ft.) (cu. yd.) (cu. yd.) (cu. yd.)

000+12.00 EARTH

Common Exc	10	0	0	1.00	0
Subgrade Exc	0	0	0	1.00	0
Subsoil Exc	0	0	0	1.00	0
Fill	0	0	0	1.00	0

000+15.00 EARTH

Common Exc	10	1	1	1.00	1
Subgrade Exc	0	0	0	1.00	0
Subsoil Exc	0	0	0	1.00	0
Fill	0	0	0	1.00	3

000+25.00 EARTH

Common Exc	6	3	3	1.00	4
Subgrade Exc	0	0	0	1.00	0
Subsoil Exc	0	0	0	1.00	0
Fill	0	0	0	1.00	9

000+35.00 EARTH

Common Exc	10	2	2	1.00	6
Subgrade Exc	0	0	0	1.00	0
Subsoil Exc	0	0	0	1.00	0
Fill	0	0	0	1.00	15

000+40.00 EARTH

Common Exc	4	1	1	1.00	7
Subgrade Exc	0	0	0	1.00	0

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Subsoil Exc	0	0	0	1.00		0
Fill	0	0	0	1.00	21	0

S P L I T S U M M A R Y T O T A L S

Material Name	XS Quant	XS Quant	Add/Sub Quant	Add/Sub Quant	Mult Factor
	Unadjusted	Adjusted	Unadjusted	Adjusted	
	Volume	Volume	Volume	Volume	
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

EARTH

Common Exc	7	7	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	0	0	0	0	1.00