

GRADING REPORT

COMPUTED BY: Eric Kim
 CHECKED BY: Eric Kim
 FEDERAL PROJECT NO: PROT-29(131)
 ROUTE NO. OR STREET: SR-29 (US-27)

SHEET 1 OF 5
 STATE NO.: 76001-3289-14
 PIN: 130146.00
 COUNTY: Scott

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK = 20 % SWELL = 20 %		
MAINLINE	209	0	168	EXC.	EMB.	
SIDE ROADS	0	0				
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	0				
INDEPENDENT DITCHES	0	0				
TEMPORARY CONSTRUCTION EXITS	0	0				
OTHER	0	0				
TOPSOIL (EMB.)	0					
TOPSOIL (EXC.)	0			AVAILABLE	=	168
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				WASTE MATERIAL	=	202
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	209	0	209	209	168

ESTIMATED GRADING QUANTITIES						
DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY		
	EXC.	EMB.	EXC.	SHRINK = 20 % SWELL = 20 %		
MAINLINE	0	1821		EMB.	EXC.	
SIDE ROADS	0	0				
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	0	0				
INDEPENDENT DITCHES	0	0				
TEMPORARY CONSTRUCTION EXITS	0	0				
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0				
TOPSOIL (EMB.)	0					
TOPSOIL (EXC.)	0					
TOPSOIL TOTALS (SEE TOPSOIL TABLE)				BORROW MATERIAL = 2186		
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	0	1821	0	0	0

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SHEET 2 OF 5
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Mainline

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate	Accum Unadj Vol (cu. yd.)	Accum Adj Vol (cu. yd.)
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 SKIP STATION RANGE = 109+80.00 to 112+00.00

112+20.00 EARTH

Common Exc	17	0	0	1.00		0	0
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	656	0	0	1.00	0	0	0

112+40.00 EARTH

Common Exc	15	12	12	1.00		12	12
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	656	486	486	1.00	-474	486	486

112+60.00 EARTH

Common Exc	12	10	10	1.00		22	22
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	628	476	476	1.00	-940	962	962

112+80.00 EARTH

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Common Exc	13	9	9	1.00		31	31
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	616	461	461	1.00	-1392	1423	1423

113+00.00 EARTH

Common Exc	13	10	10	1.00		41	41
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	120	273	273	1.00	-1655	1696	1696

113+20.00 EARTH

Common Exc	15	10	10	1.00		51	51
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	31	56	56	1.00	-1701	1752	1752

113+40.00 EARTH

Common Exc	30	17	17	1.00		68	68
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	23	20	20	1.00	-1704	1772	1772

113+60.00 EARTH

Common Exc	33	23	23	1.00		91	91
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	21	16	16	1.00	-1697	1788	1788

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113+80.00 EARTH

Common Exc	21	20	20	1.00		111	111
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	24	17	17	1.00	-1694	1805	1805

114+00.00 EARTH

Common Exc	32	20	20	1.00		131	131
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	4	10	10	1.00	-1684	1815	1815

114+20.00 EARTH

Common Exc	73	39	39	1.00		170	170
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	1	1	1.00	-1646	1816	1816

114+40.00 EARTH

Common Exc	16	33	33	1.00		203	203
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	2	2	1.00	-1615	1818	1818

114+60.00 EARTH

Common Exc	0	6	6	1.00		209	209
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	3	3	1.00	-1612	1821	1821

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G R A N D S U M M A R Y T O T A L S			
Material Name	Unadjusted	Adjusted	Mult
	Volumes	Volumes	Factor
	(cu. yd.)	(cu. yd.)	

EARTH

Common Exc	209	209	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1821	1821	1.00