COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10)

ROUTE NO. OR STREET: Hamilton Church Road

SHEET **1** OF **22** STATE NO.: 19129-3201-94 PIN: 125999.00 COUNTY: Davidson

ESTIMATED GRADING QUANTITIES											
	DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	I BALANCE SUMMARY					
				EXC.	EMB.	EXC.	SHRINK = 30	%	SWELL =	100 %	
MAINLINE				95	614	67					
SIDE ROADS				0	0						
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES			3	66	3	EMB.		EXC.			
INDEPENDENT DITCHES			0	0							
TEMPORARY (CONSTRUCTI	ON EXITS		0	0		680	VS.	-69		
OTHER (BRIDG	SE EXCAVATI	ON, PAVEMENT	, ETC)	0	0						
TOPSOIL (EME	5.)			190			AVAILABLE	=	611		
TOPSOIL (EXC	.)			137							
		TOPSOIL T	OTALS (SEE T	OPSOIL TABLE)	-		BORROW MATERI	AL =	795		
ROCK	ROCK (C.Y.) TOTALS (C.Y.)]					
EXC.	EMB.	EXC. (UNCL.)	EXC. (UNCL.) EMB. (UNCL.) EXC (COMMON) EXC. (AVAIL.) EXC. (ADJ.)								
0	0	425	680	425	98	69					

Mainline

	Material Name	End Areas	Unadjusted	Adjusted	Mult	Mass	Accum	Accum
Station			Volumes	Volumes	Factor	Ordinate	Unadj Vol	Adj Vol
		(sq. ft.)	(cu. yd.)	(cu. yd.)			(cu. yd.)	(cu. yd.)
52+40.00	EARTH							
	Common Exc	6	0	0 0	.70		0	0
	Subgrade Exc	0	0	0 0	.70		0	0
	Subsoil Exc	0	0	0 1	.00		0	0
	Fill	17	0	0 1	.00	0	0	0
	TOPSOIL							
	Common Exc	2	0	0 0	.70		0	0
	Subgrade Exc	0	0	0 0	.70		0	0
	Subsoil Exc	0	0	0 1	.00		0	0
	Fill	0	0	0 1	.00	0	0	0

Mass ordinate for TOPSOIL = 0

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10)

ROUTE NO. OR STREET: Hamilton Church Road

SHEET **2** OF **22** STATE NO.: 19129-3201-94 PIN: 125999.00

COUNTY: Davidson

SKIP	STATION	RANGE	=	52+52.00	to	52+62.00	

52+80.00 EARTH

Common Exc	5	6	4	0.70		6	4
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	30	26	26	1.00	-22	26	26
TOPSOIL							
Common Exc	2	2	2	0.70		2	2
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-22	0	0

Mass ordinate for TOPSOIL = 2

53+00.00 EARTH

Common Exc	4	3	2	0.70		9	6
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	29	22	22	1.00	-42	48	48
TOPSOIL							
Common Exc	2	1	1	0.70		3	3
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-42	0	0

Mass ordinate for TOPSOIL = 3

53+20.00 EARTH

Common	Exc	4	3	2	0.70	12	8
Subgrade	Fxc	a	a	a	0.70	a	a

			GRA	DING REF	OKI			
COMPUTED BY: M. Purye CHECKED BY: B. Baxter, F FEDERAL PROJECT NO: H ROUTE NO. OR STREET: H	PE, PT0 SIP-49	965(10)	oad			STATE N	SHEET 3 NO.: 19129-3 PIN: 125 COUNTY: Da	201-94 999.00
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	23	19	19	1.00	-59	67	67
TOPSOIL								
Common	Exc	2	1	1	0.70		4	4
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	0	0	0	1.00	-59	0	0
Mass o	rdinat	ce for TOPSO	IL = 4					
53+40.00 EARTH								
Common	Exc	4	3	2	0.70		15	10
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	20	16	16	1.00	-73	83	83
Fi TOPSOIL	11	20	16	16	1.00	-73	83	83
		20	16	16	1.00 0.70	-73	83 5	83
TOPSOIL	Exc					-73		
TOPSOIL Common	Exc Exc	2	1	1	0.70	-73	5	5
TOPSOIL Common Subgrade	Exc Exc	2	1	1	0.70 0.70	-73 -73	5 0	5
TOPSOIL Common Subgrade Subsoil Fi	Exc Exc Exc	2 0 0	1 0 0	1 0 0	0.70 0.70 1.00		5 0 0	5 0
TOPSOIL Common Subgrade Subsoil Fi	Exc Exc Exc	2 0 0	1 0 0	1 0 0	0.70 0.70 1.00		5 0 0	5 0
TOPSOIL Common Subgrade Subsoil Fi	Exc Exc Exc	2 0 0	1 0 0	1 0 0	0.70 0.70 1.00		5 0 0	5 0
TOPSOIL Common Subgrade Subsoil Fi Mass o	Exc Exc Exc 11 rdinat	2 0 0	1 0 0	1 0 0	0.70 0.70 1.00		5 0 0	5 0
TOPSOIL Common Subgrade Subsoil Fi Mass o	Exc Exc Exc 11 rdinat	2 0 0 0 te for TOPSO	1 0 0 0 IL = 5	1 0 0	0.70 0.70 1.00 1.00		5 0 0	5 0 0
TOPSOIL Common Subgrade Subsoil Fi Mass o 53+60.00 EARTH Common	Exc Exc Exc Il rdinat	2 0 0 0 ce for TOPSO	1 0 0 0 IL = 5	1 0 0	0.70 0.70 1.00 1.00		5 0 0 0	5 0 0 0
TOPSOIL Common Subgrade Subsoil Fi Mass o 53+60.00 EARTH Common Subgrade	Exc Exc ll rdinat Exc Exc	2 0 0 0 ce for TOPSO 5 0	1 0 0 0 IL = 5	1 0 0	0.70 0.70 1.00 1.00		5 0 0 0	5 0 0
TOPSOIL Common Subgrade Subsoil Fi Mass o 53+60.00 EARTH Common Subgrade Subsoil	Exc Exc ll rdinat Exc Exc	2 0 0 0 te for TOPSO 5 0	1 0 0 0 IL = 5	1 0 0 0	0.70 0.70 1.00 1.00	-73	5 0 0 0	5 0 0
TOPSOIL Common Subgrade Subsoil Fi Mass o 53+60.00 EARTH Common Subgrade Subsoil Fi	Exc Exc ll rdinat Exc Exc Exc	2 0 0 0 te for TOPSO 5 0	1 0 0 0 IL = 5	1 0 0 0	0.70 0.70 1.00 1.00	-73	5 0 0 0	5 0 0

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10) ROUTE NO. OR STREET: Hamilton Church Road COUNTY								
Subsoil Ex	кс 0	0	0	1.00		0	0	
Fill	0	0	0	1.00	-84	0	0	
Mass ordi	inate for TO	PSOIL = 6						
53+80.00 EARTH								
Common Ex	cc 5	4	3	0.70		22	15	
Subgrade Ex	кс 0	0	0	0.70		0	0	
Subsoil Ex	кс 0	0	0	1.00		0	0	
Fill	11	10	10	1.00	-91	106	106	
TOPSOIL								
Common Ex	cc 2	1	1	0.70		7	7	
Subgrade Ex	кс 0	0	0	0.70		0	0	
Subsoil Ex	кс 0	0	0	1.00		0	0	
Fill	0	0	0	1.00	-91	0	0	
Mass ordi	inate for TO	PSOIL = 7						
54+00.00 EARTH								
Common Ex	c 5	4	3	0.70		26	18	
Subgrade Ex	кс 0	0	0	0.70		0	0	
Subsoil Ex	кс 0	0	0	1.00		0	0	
Fill	8	7	7	1.00	-95	113	113	
TOPSOIL								
Common Ex	κc 2	1	1	0.70		8	8	
Subgrade Ex	кс 0	0	0	0.70		0	0	
Subsoil Ex	кс 0	0	0	1.00		0	0	
Fill	0	0	0	1.00	-95	0	0	
Mass ordi	inate for TO	PSOIL = 8						

			GRADING	REP	ORT			
COMPUTED BY: M. Puryea CHECKED BY: B. Baxter, PE, FEDERAL PROJECT NO: HSI ROUTE NO. OR STREET: Ha	, PTOE P-4965(10)						SHEET 5 (O.: 19129-32(PIN: 1259) COUNTY: Dav	01-94 99.00
Common E	xc	5	4	3	0.70		30	21
Subgrade E	xc	0	0	0	0.70		0	0
Subsoil E	xc	0	0	0	1.00		0	0
Fill		7	6	6	1.00	-98	119	119
TOPSOIL								
Common E	xc	3	2	1	0.70		10	9
Subgrade E	xc	0	0	0	0.70		0	0
Subsoil E	xc	0	0	0	1.00		0	0
Fill		0	0	0	1.00	-98	0	0
Mass ord	linate for	TOPSOIL =	9					
54+40.00 EARTH								
Common E	xc	5	4	3	0.70		34	24
Subgrade E	xc	0	0	0	0.70		0	0
Subsoil E	xc	0	0	0	1.00		0	0
Fill		7	5	5	1.00	-100	124	124
TOPSOIL								
Common E	xc	3	2	2	0.70		12	11
Subgrade E	xc	0	0	0	0.70		0	0
Subsoil E	xc	0	0	0	1.00		0	0
Fill		0	0	0	1.00	-100	0	0
Mass ord	linate for	TOPSOIL =	11					
54+60.00 EARTH								
Common E	xc	5	4	3	0.70		38	27
Subgrade E	xc	0	0	0	0.70		0	0
Subsoil E	xc	0	0	0	1.00		0	0
Fill		6	5	5	1.00	-102	129	129
TOPSOIL								

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10 ROUTE NO. OR STREET: Hamilton Ch	SHEET 6 OF 22 NO.: 19129-3201-94 PIN: 125999.00 COUNTY: Davidson						
Common Exc	3	2	2	0.70		14	13
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-102	0	0
Mass ordinate for	TOPS	SOIL = 13					
54+80.00 EARTH							
Common Exc	6	4	3	0.70		42	30
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	5	4	4	1.00	-103	133	133
TOPSOIL							
Common Exc	2	2	1	0.70		16	14
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-103	0	0
Mass ordinate for	TOPS	SOIL = 14					
55+00.00 EARTH							
Common Exc	6	4	3	0.70		46	33
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	7	4	4	1.00	-104	137	137
TOPSOIL							
Common Exc	2	1	1	0.70		17	15
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-104	0	0
Mass ordinate for	TOP	SOIL = 15					

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10)

ROUTE NO. OR STREET: Hamilton Church Road

Subgrade Exc

Subsoil Exc

0

SHEET **7** OF **22** STATE NO.: 19129-3201-94 PIN: 125999.00

COUNTY: Davidson

55+20.00 EARTH							
Common Exc	6	4	3	0.70		50	36
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	8	6	6	1.00	-107	143	143
TOPSOIL							
Common Exc	2	1	1	0.70		18	16
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-107	0	0
Mass ordinate fo	r TOP	SOIL = 16					
55+40.00 EARTH							
Common Exc	6	4	3	0.70		54	39
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	8	6	6	1.00	-110	149	149
TOPSOIL							
Common Exc	2	1	1	0.70		19	17
Subgrade Exc	0	0	0	0.70		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-110	0	0
Mass ordinate fo	r TOP	SOIL = 17					
55+60.00 EARTH							
Common Exc	5	4	3	0.70		58	42

0

0

0 0.70

0 1.00

0

0

0

0

SHEET **8** OF **22**

COMPUTED BY: M. Puryear

COMPUTED BY: M. Puryear SHEET 8 OF CHECKED BY: B. Baxter, PE, PTOE STATE NO.: 19129-3201-											
FEDERAL PROJECT NO: HSIP-4965(10) ROUTE NO. OR STREET: Hamilton Church Road COUNTY: Davidso											
ROUTE NO.	OR STREET: H	amilton	Church Ro	oad				COUNTY: Da	avidson		
	Fil	1	21	11	11	1.00	-118	160	160		
	TOPSOIL										
	Common	Exc	2	1	1	0.70		20	18		
	Subgrade	Exc	0	0	0	0.70		0	0		
	Subsoil	Exc	0	0	0	1.00		0	0		
	Fil	1	0	0	0	1.00	-118	0	0		
	Mass or	dinate	for TOPSO	IL = 18							
55+80.00	9 EARTH										
	Common	Exc	6	4	3	0.70		62	45		
	Subgrade	Exc	0	0	0	0.70		0	0		
	Subsoil	Exc	0	0	0	1.00		0	0		
	Fil	1	13	13	13	1.00	-128	173	173		
	TOPSOIL										
	Common	Exc	2	1	1	0.70		21	19		
	Subgrade	Exc	0	0	0	0.70		0	0		
	Subsoil	Exc	0	0	0	1.00		0	0		
	Fil	1	0	0	0	1.00	-128	0	0		
	Mass or	dinate	for TOPSO	IL = 19							
56+00.00	0 EARTH										
	Common	Exc	6	4	3	0.70		66	48		
	Subgrade	Exc	0	0	0	0.70		0	0		
	Subsoil	Exc	0	0	0	1.00		0	0		
	Fil	1	14	10	10	1.00	-135	183	183		
	TOPSOIL										
	Common	Exc	2	1	1	0.70		22	20		
	Subgrade	Exc	0	0	0	0.70		0	0		
	Subsoil	Exc	0	0	0	1.00		0	0		

			(GRADING RE	PORT			
FEDERAL PROJECT NO: H	HECKED BY: B. Baxter, PE, PTOE EDERAL PROJECT NO: HSIP-4965(10) OUTE NO. OR STREET: Hamilton Church Road					STATI	E NO.: 1912 PIN:	ET 9 OF 22 .9-3201-94 125999.00 : Davidson
Fi	11	0	0	0	1.00	-135	0	0
Mass o	rdinat	ce for TOP	SOIL = 20					
56+20.00 EARTH								
Common	Exc	6	4	3	0.70		70	51
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	23	14	14	1.00	-146	197	197
TOPSOIL								
Common	Exc	2	1	1	0.70		23	21
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	0	0	0	1.00	-146	0	0
Mass o	rdinat	ce for TOP	SOIL = 21					
56+40.00 EARTH								
Common	Exc	6	4	3	0.70		74	54
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	23	17	17	1.00	-160	214	214
TOPSOIL								
Common	Exc	1	1	1	0.70		24	22
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	0	0	0	1.00	-160	0	0
Mass o	rdinat	ce for TOP	SOIL = 22					
56+60.00 EARTH								
Common	Exc	6	4	3	0.70		78	57

COMPUTED	BY: M. Puryear		GRA	DING REF	ORI		SHEET 10	0 OF 22
	': B. Baxter, PE, PTO OJECT NO: HSIP-490					STATE I	NO.: 19129-3 PIN: 125	
	OR STREET: Hamilto		ad				COUNTY: Da	
	Subgrade Exc	0	0	0	0.70		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	18	15	15	1.00	-172	229	229
	TOPSOIL							
	Common Exc	1	1	1	0.70		25	23
	Subgrade Exc	0	0	0	0.70		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	0	0	0	1.00	-172	0	0
	Mass ordinato	e for TOPSO	IL = 23					
56+80.00	EARTH							
	Common Exc	6	4	3	0.70		82	60
	Subgrade Exc	0	0	0	0.70		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	10	10	10	1.00	-179	239	239
	TOPSOIL							
	Common Exc	1	1	1	0.70		26	24
	Subgrade Exc	0	0	0	0.70		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	0	0	0	1.00	-179	0	0
	Mass ordinate	e for TOPSO	IL = 24					
57+00.00	EARTH							
	Common Exc	6	4	3	0.70		86	63
	Subgrade Exc	0	0	0	0.70		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	9	7	7	1.00	-183	246	246
	TOPSOIL							
	Common Exc	1	1	1	0.70		27	25

COMPUTED BY: M. Puryea CHECKED BY: B. Baxter, PE FEDERAL PROJECT NO: HS ROUTE NO. OR STREET: H		GRADING RE	PORT	STATE	NO.: 19129	25999.00	
Subgrade	Exc 0	0	0	0.70		0	0
Subsoil	Exc 0	0	0	1.00		0	0
Fil	1 0	0	0	1.00	-183	0	0
Mass or	dinate for T	OPSOIL = 25					
57+20.00 EARTH							
Common	Exc 6	4	3	0.70		90	66
Subgrade	Exc 0	0	0	0.70		0	0
Subsoil	Exc 0	0	0	1.00		0	0
Fil	1 21	11	11	1.00	-191	257	257
TOPSOIL							
Common	Exc 1	1	1	0.70		28	26
Subgrade	Exc 0	0	0	0.70		0	0
Subsoil	Exc 0	0	0	1.00		0	0
Fil	1 0	0	0	1.00	-191	0	0
Mass or	dinate for T	OPSOIL = 26					
57+40.00 EARTH							
Common	Exc 5	4	3	0.70		94	69
Subgrade	Exc 0	0	0	0.70		0	0
Subsoil	Exc 0	0	0	1.00		0	0
Fil	1 16	14	14	1.00	-202	271	271
TOPSOIL							
Common	Exc 2	1	1	0.70		29	27
Subgrade	Exc 0	0	0	0.70		0	0
Subsoil	Exc 0	0	0	1.00		0	0
Fil	1 0	0	0	1.00	-202	0	0
Mass or	dinate for T	OPSOIL = 27					

COMPUTED BY: M. Pury CHECKED BY: B. Baxter, FEDERAL PROJECT NO: H ROUTE NO. OR STREET:		ADING REP	PORT	STATE I	SHEET 1 NO.: 19129-3 PIN: 125 COUNTY: D	3201-94 5999.00			
57+46.52 EARTH									
Common	Exc	6	1	1	0.70		95	70	
Subgrade	Exc	0	0	0	0.70		0	0	
Subsoil	Exc	0	0	0	1.00		0	0	
Fi	.11	16	4	4	1.00	-205	275	275	
TOPSOIL									
Common	Exc	2	0	0	0.70		29	27	
Subgrade	Exc	0	0	0	0.70		0	0	
Subsoil	Exc	0	0	0	1.00		0	0	
Fi	.11	0	0	0	1.00	-205	0	0	
Mass ordinate for TOPSOIL = 27									
57+60.00 EARTH									
Common	Exc	5	3	2	0.70		98	72	
Subgrade	Exc	0	0	0	0.70		0	0	
Subsoil	Exc	0	0	0	1.00		0	0	
Fi	.11	4	5	5	1.00	-208	280	280	
TOPSOIL									
Common	Exc	4	1	1	0.70		30	28	
Subgrade	Exc	0	0	0	0.70		0	0	
Subsoil	Exc	0	0	0	1.00		0	0	
Fi	.11	0	0	0	1.00	-208	0	0	
Mass c	rdina	te for TOPSOII	_ = 28						
58+20.00 EARTH									
Common	Exc	13	20	14	0.70		118	86	
Subgrade	Exc	0	0	0	0.70		0	0	
Subsoil	Exc	0	0	0	1.00		0	0	
Fi	.11	9	14	14	1.00	-208	294	294	

			GRAI	JING REP	ORI			
COMPUTED BY: M. Pury CHECKED BY: B. Baxter, I FEDERAL PROJECT NO: H ROUTE NO. OR STREET:	PE, PTO ISIP-49	65(10)	ad			STATE I	SHEET 1 : NO.: 19129-3 PIN: 125 COUNTY: Da	3201-94 5999.00
TOPSOIL								
Common	Exc	7	12	9	0.70		42	37
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	0	0	0	1.00	-208	0	0
Mass o	rdinat	ce for TOPSOI	L = 37					
58+40.00 EARTH								
Common	Exc	14	10	7	0.70		128	93
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	8	6	6	1.00	-207	300	300
TOPSOIL								
Common	Exc	6	5	3	0.70		47	40
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	0	0	0	1.00	-207	0	0
Mass o	rdinat	ce for TOPSOI	L = 40					
58+60.00 EARTH								
Common	Exc	18	12	8	0.70		140	101
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	7	6	6	1.00	-205	306	306
TOPSOIL								
Common	Exc	7	5	3	0.70		52	43
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	11	0	0	0	1.00	-205	0	0

SHEET **14** OF **22**

PIN: 125999.00

0

COUNTY: Davidson

STATE NO.: 19129-3201-94

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10)

ROUTE NO. OR STREET: Hamilton Church Road

Subgrade Exc

0

0

0 0.70

Mass ordinate for TOPSOIL = 43

58+80.00 EARTH								
Common	Exc	24	16	11	0.70		156	112
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fil	11	6	5	5	1.00	-199	311	311
TOPSOIL								
Common	Exc	8	6	4	0.70		58	47
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fil	11	0	0	0	1.00	-199	0	0
Mass or	rdinate	for TOPSO	IL = 47					
59+00.00 EARTH								
Common	Exc	8	12	8	0.70		168	120
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fil	11	0	2	2	1.00	-193	313	313
TOPSOIL								
Common	Exc	9	6	4	0.70		64	51
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fil	11	0	0	0	1.00	-193	0	0
Mass or	rdinate	for TOPSO	IL = 51					
59+20.00 EARTH								
Common	Exc	21	11	8	0.70		179	128
Cub	Гуд		_	0	0.70			

		,	JKADING KE	PURI			
COMPUTED BY: M. Puryea CHECKED BY: B. Baxter, PE FEDERAL PROJECT NO: HSI ROUTE NO. OR STREET: Ha	, PTOE P-4965(10)	h Road			STATE	NO.: 1912 PIN: 1	F 15 OF 22 9-3201-94 125999.00 Davidson
Subsoil E	exc 0	0	0	1.00		0	0
Fill	. 9	3	3	1.00	-188	316	316
TOPSOIL							
Common E	Exc 8	6	4	0.70		70	55
Subgrade E	Exc 0	0	0	0.70		0	0
Subsoil E	Exc 0	0	0	1.00		0	0
Fill	. 0	0	0	1.00	-188	0	0
Mass ord	linate for TO	PSOIL = 55					
59+40.00 EARTH Common E	exc 21	16	11	0.70		195	139
Subgrade E		0	0	0.70		0	0
Subsoil E		0	0	1.00		0	0
Fill		7	7	1.00	-184	323	323
TOPSOIL	·	·	_,,,		5_5	525	
Common E	Exc 8	6	4	0.70		76	59
Subgrade E		0	0	0.70		0	0
Subsoil E		0	0	1.00		0	0
Fill	. 0	0	0	1.00	-184	0	0
Mass ord	linate for TO	PSOIL = 59					
59+60.00 EARTH							
Common E	xc 21	16	11	0.70		211	150
Subgrade E	exc 0	0	0	0.70		0	0
Subsoil E	Exc 0	0	0	1.00		0	0
Fill	. 11	8	8	1.00	-181	331	331
TOPSOIL							
Common E	exc 8	6	4	0.70		82	63
Subgrade E	exc 0	0	0	0.70		0	0

COMPUTED BY: M. Purye	GRADING	KEPU	JKI		SHEET 16 OF			
CHECKED BY: B. Baxter, P FEDERAL PROJECT NO: HS ROUTE NO. OR STREET: H	SIP-4965(10)						19129-3201 PIN: 125999 UNTY: David	00.6
Subsoil		0	0	0	1.00		0	0
Fil		0	0	0	1.00	-181	0	0
	rdinate for						·	·
59+80.00 EARTH								
Common		8 1	l1	8	0.70		222	158
Subgrade		0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fil	11 1	12	9	9	1.00	-182	340	340
TOPSOIL								
Common	Exc	5	5	3	0.70		87	66
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fil	11	0	0	0	1.00	-182	0	0
Mass or	rdinate for	TOPSOIL = 6	56					
61+60.00 EARTH								
Common	Exc	4 4	10	28	0.70		262	186
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fil	11 4	16 19	93 19	93	1.00	-347	533	533
TOPSOIL								
Common	Exc	3 2	27 :	19	0.70		114	85
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fil	11	0	0	0	1.00	-347	0	0
Mass or	rdinate for	TOPSOIL = 8	35					

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, FEDERAL PROJECT NO: HSIP ROUTE NO. OR STREET: Har		GRADING RE	PORT	STAT	E NO.: 1912 PIN:	T 17 OF 22 29-3201-94 125999.00 2: Davidson	
Common Ex	c 5	3	2	0.70		265	188
Subgrade Ex	c 0	0	0	0.70		0	0
Subsoil Ex	c 0	0	0	1.00		0	0
Fill	35	30	30	1.00	-375	563	563
TOPSOIL							
Common Ex	c 5	3	2	0.70		117	87
Subgrade Ex	c 0	0	0	0.70		0	0
Subsoil Ex	c 0	0	0	1.00		0	0
Fill	0	0	0	1.00	-375	0	0
Mass ordi	nate for TO	PSOIL = 87					
62+00.00 EARTH Common Ex Subgrade Ex Subsoil Ex	cc 0	3 0 0	2 0	0.70 0.70 1.00		268 0 0	190 0 0
Fill	34	26	26	1.00	-399	589	589
TOPSOIL	54	20	20	1.00	-333	363	363
Common Ex	c 4	3	2	0.70		120	89
Subgrade Ex		0	0	0.70		0	0
Subsoil Ex		0	0	1.00		0	0
Fill	0	0	0	1.00	-399	0	0
	.nate for TO	PSOIL = 89					
62+20.00 EARTH							
Common Ex	c 4	3	2	0.70		271	192
Subgrade Ex	c 0	0	0	0.70		0	0
Subsoil Ex	c 0	0	0	1.00		0	0
Fill	31	24	24	1.00	-421	613	613
TOPSOIL							

COMPUTED BY: M. Pury	ear		GRAD	DING REP	PORT		SHEET 18	8 OF 22
CHECKED BY: B. Baxter,	PE, PTOE	(4.0)				STATE I	NO.: 19129-3	
FEDERAL PROJECT NO: H ROUTE NO. OR STREET:			load				PIN: 125 COUNTY: Da	
Commor	ı Exc	4	3	2	0.70		123	91
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	.11	0	0	0	1.00	-421	0	0
Mass o	ordinate f	or TOPS	OIL = 91					
62+40.00 EARTH								
Commor	Exc	5	3	2	0.70		274	194
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	. Exc	0	0	0	1.00		0	0
Fi	.11	28	22	22	1.00	-441	635	635
TOPSOIL								
Commor	Exc	5	3	2	0.70		126	93
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	.11	0	0	0	1.00	-441	0	0
Mass o	ordinate f	or TOPS	OIL = 93					
62+60.00 EARTH								
Commor	n Exc	6	4	3	0.70		278	197
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	.11	26	20	20	1.00	-458	655	655
TOPSOIL								
Commor	ı Exc	6	4	3	0.70		130	96
Subgrade	e Exc	0	0	0	0.70		0	0
Subsoil	. Exc	0	0	0	1.00		0	0
Fi	.11	0	0	0	1.00	-458	0	0
Mass o	ordinate f	or TOPS	OIL = 96					

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10)

ROUTE NO. OR STREET: Hamilton Church Road

SHEET **19** OF **22** STATE NO.: 19129-3201-94 PIN: 125999.00 COUNTY: Davidson

62+80.00 EARTH								
Common	Exc	3	3	2	0.70		281	199
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	.11	17	16	16	1.00	-472	671	671
TOPSOIL								
Common	Exc	3	3	2	0.70		133	98
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	.11	0	0	0	1.00	-472	0	0
Mass o	rdinate for	TOPSOIL =	98					
63+00.00 EARTH								
Common	Exc	6	3	2	0.70		284	201
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	.11	3	7	7	1.00	-477	678	678
TOPSOIL								
Common	Exc	2	2	1	0.70		135	99
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0
Fi	.11	0	0	0	1.00	-477	0	0
Mass o	rdinate for	TOPSOIL =	99					
63+09.42 EARTH								
Common	Exc	6	2	1	0.70		286	202
Subgrade	Exc	0	0	0	0.70		0	0
Subsoil	Exc	0	0	0	1.00		0	0

SHEET **20** OF **22**

COMPUTED BY: M. Puryear

CHECKED BY: B. Baxter, PE, FEDERAL PROJECT NO: HSIP ROUTE NO. OR STREET: Har	PTOE P-4965(10)	h Road			STATE	NO.: 19129	25999.00
Fill	4	1	1	1.00	-477	679	679
TOPSOIL							
Common Ex	kc 2	1	0	0.70		136	99
Subgrade Ex	кс 0	0	0	0.70		0	0
Subsoil Ex	кс 0	0	0	1.00		0	0
Fill	0	0	0	1.00	-477	0	0
Mass ordi	inate for TO	OPSOIL = 99					
63+20.00 EARTH							
Common Ex	кс 6	2	2	0.70		288	204
Subgrade Ex	kc 0	0	0	0.70		0	0
Subsoil Ex	кс 0	0	0	1.00		0	0
Fill	0	1	1	1.00	-476	680	680
TOPSOIL							
Common Ex	kc 5	1	1	0.70		137	100
Subgrade Ex	kc 0	0	0	0.70		0	0
Subsoil Ex	cc 0	0	0	1.00		0	0
Fill	0	0	0	1.00	-476	0	0
Mass ordi	inate for TO)PSOIL = 100					

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10)

ROUTE NO. OR STREET: Hamilton Church Road

SHEET **21** OF **22** STATE NO.: 19129-3201-94 PIN: 125999.00 COUNTY: Davidson

GRAND SUMMARY TOTALS

	Material	Name		Unadjusted	Adjusted	Mult
				Volumes	Volumes	Factor
				(cu. yd.)	(cu. yd.)	
EARTH						
		Common	Exc	288	204	0.70
		Subgrade	Exc	0	0	0.70
		Subsoil	Exc	0	0	1.00
		Fill		680	680	1.00
TOPSOI	L					
		Common	Exc	137	100	0.70
		Subgrade	Exc	0	0	0.70
		Subsoil	Exc	0	0	1.00
		Fill		0	0	1.00

COMPUTED BY: M. Puryear CHECKED BY: B. Baxter, PE, PTOE FEDERAL PROJECT NO: HSIP-4965(10)

ROUTE NO. OR STREET: Hamilton Church Road

SHEET **22** OF **22** STATE NO.: 19129-3201-94

PIN: 125999.00 COUNTY: Davidson

SPLIT SUMMARY TOTALS

			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	288	204	0	6	0.70
	Subgrade	Exc	0	0	0	6	0.70
	Subsoil	Exc	0	0	0	6	1.00
	Fill		680	680	0	e	1.00
TOPSOIL							
	Common	Exc	137	100	0	6	0.70
	Subgrade	Exc	0	0	0	e	0.70
	Subsoil	Exc	0	0	0	e	1.00
	Fill		0	0	0	6	1.00