EE D.O.I.	DIVISION
IENNESSEE	DESIGN

60U T ES T	CANADIE		CANADIE	CANADIE
SOIL TEST BORING	SAMPLE NUMBER	DEPTH (ft)	SAMPLE TYPE	SAMPLE TESTED
R1-14	1	1.0 - 2.5	SS	IESTED
III-14	2	3.0 - 4.0	SS	
R1-15-CA	1	11.0 - 12.5	SS	
10 0/1	2	14.0 - 15.5	SS	
	3	16.0 - 17.5	SS	
	4	19.0 - 20.5	SS	
	5	21.0 - 22.5	SS	
DV-1	1	1.0 - 2.5	SS	Х
	2	3.5 - 5.0	SS	Х
	3	6.0 - 7.5	SS	X
	4	8.5 - 10.0	SS	Х
DV-2	1	1.0 - 2.5	SS	Х
	2	3.5 - 5.0	SS	Х
	3	6.0 - 7.5	SS	Х
	4	8.5 - 10.0	SS	Х
DV-3	1	1.0 - 2.5	SS	Х
	2	3.5 - 5.0	SS	Х
	3	6.0 - 7.5	SS	Х
	4	8.5 - 10.0	SS	Х
DV-4	1	1.0 - 2.5	SS	X
	2	3.5 - 5.0	SS	X
	3	6.0 - 7.5	SS	X
D) / E	4	8.5 - 10.0	SS	X
DV-5	1	1.0 - 2.5	SS	X
	2	3.5 - 5.0	SS	X
	3	6.0 - 7.5	SS	X
DV 6	4	8.5 - 10.0	SS	X
DV-6	2	1.0 - 2.5	SS SS	X
	3	3.5 - 5.0 6.0 - 7.5	SS	X
	4	8.5 - 10.0	SS	X
DV-7	1	1.0 - 2.5	SS	X
	2	3.5 - 5.0	SS	X
	3	6.0 - 7.5	SS	X
	4	8.5 - 10.0	SS	X
DV-8	1	1.0 - 2.5	SS	
	2	3.5 - 5.0	SS	Х
	3	6.0 - 7.5	SS	Х
	4	8.5 - 10.0	SS	Х
	5	13.5 - 15.0	SS	Х
DV-9	1	1.0 - 2.5	SS	Х
	2	3.5 - 5.0	SS	X
	3	6.0 - 7.5	SS	Х
	4	8.5 - 10.0	SS	X
DV-10	1	1.0 - 2.5	SS	Х
	2	3.5 - 5.0	SS	Х
	3	6.0 - 7.5	SS	X
Di di di	4	8.5 - 10.0	SS	X
DV-11	1	1.0 - 2.5	SS	X
	2	3.5 - 5.0	SS	Х
	3	6.0 - 7.5	SS	
	4	8.5 - 10.0	SS	X
DV-12	5 1	13.5 - 15.0 1.0 - 2.5	SS SS	X
DΛ-17	2	3.5 - 5.0	SS	X
	3	6.0 - 7.5	SS	X
	4	8.5 - 10.0	SS	X
	5	13.5 - 15.0	SS	X
RT3-1	1	1.0 - 1.5	SS	•
	2	3.5 - 5.0	SS	
	3	6.0 - 7.5	SS	Х
	4	8.5 - 10.0	SS	Х
	5	13.5 - 15.0	SS	Х
RT3-2	1	1.0 - 1.5	SS	
	2	3.5 - 5.0	SS	
	3	6.0 - 7.5	SS	
	4	8.5 - 10.0	SS	Х
	5	13.5 - 15.0	SS	Х
		105 200	CC	V

18.5 - 20.0 SS X

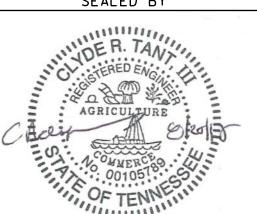
SOIL TEST BORING SAMPLE LOCATIONS AND TYPE

COULT	TECT DODING C	A A A D L E L O C A T L	ONIC AND TO	/D.F.
SOIL I	EST BORING SA	AMPLE LOCATI	ONS AND TY	PE
SOIL TEST	SAMPLE		SAMPLE	SAMPLE
BORING	NUMBER	DEPTH (ft)	TYPE	TESTED
RT3-3	1	1.0 - 2.5	SS	X
	2	3.5 - 5.0	SS	Х
	3	6.0 - 7.5	SS	
	4	8.5 - 10.0	SS	
	5	13.0 - 15.0	UD	
	6	18.5 - 20.0	SS	
	7	23.5 - 25.0	SS	Х
RT3-4	1	1.0 - 2.5	SS	Х
	2	3.5 - 5.0	SS	Х
	3	6.0 - 7.5	SS	
	4	8.5 - 10.0	SS	Χ
	5	13.5 - 15.0	SS	Χ
	6	18.0 - 20.0	UD	
	7	23.5 - 25.0	SS	Χ
	8	28.5 - 30.0	SS	Χ
	9	33.5 - 35.0	SS	
RT3-5	1	1.0 - 2.5	SS	X
	2	3.5 - 5.0	SS	X
	3	6.0 - 7.5	SS	X
	4	8.5 - 10.0	SS	Х
	5	13.5 - 15.0	SS	Х
	6	18.5 - 20.0	SS	Х
	7	23.5 - 25.0	SS	Х
	8	28.5 - 30.0	SS	Х
	9	33.5 - 35.0	SS	Х

	_	SUMMARY OF SOIL LABORTORY TEST		GS DV-1 THROUG	H DV-12, RT3-1 THROUGH	1 RT3-5, AI	ND R1-14			
			STANDARD	OPTIMUM	NATURAL MOISTURE					I
SOIL TEST	SAMPLE		PROCTOR DENSITY	MOISTURE	CONTENT		D.	Specific	AASHTO	USCS
BORING DV-1	NO.	SAMPLE DESCRIPTION Maroon brown clayey SILT with SHALE frags	(lb/ft ³)	(%)	(%) 24.7	LL	PI	Gravity	CLASS	CLASS
ΔΛ-1	2	Light brown to brown and red silty CLAY			34.3	46	23		A-7-6(15)	CL
	3	Light brown to brown and red silty CLAY			39.3				A-7-0(13)	
	4	Bluish gray weathered SHALE			30.7	46	22		A-7-6(12)	CL
DV-2	1	Light brown to brown silty CLAY			30.5					
	2	Light brown to brown silty CLAY			29.9	45	21		A-7-6(19)	CL
	3	Light brown to brown silty CLAY			50.3					
	4	Bluish gray weathered SHALE			6.5	NP	NP		A-3(0)	SM
DV-3	1	Maroon brown clayey SILT with SHALE frags			12.7					
	2	Light brown to brown silty CLAY			29.7					
	3	Light brown to brown silty CLAY			43.9	63	37		A-7-6(29)	СН
	4	Light brown to brown silty CLAY			28.0					
DV-4	1	Dark brown sandy CLAY to silty CLAY			14.8					
	2	Dark brown sandy CLAY to silty CLAY			19.4	26	9		A-4(1)	SC
	3	Bluish gray weathered SHALE			38.2	32	12		A-6(3)	CL
D) / F	4	Bluish gray weathered SHALE			8.9					
DV-5	2	Light brown silty CLAY			9.5 32.6	48	72		^ ^ 7 6/20\	CL
		Light brown silty CLAY					23		A-7-6(20)	
	3 4	Light brown silty CLAY Dark brown sandy SILT to clayey SILT			41.8 11.0	25	8		A-4(0)	SC
DV-6	1	Dark brown sandy CLAY to silty CLAY			7.6				A-4(0)	
D V U	2	Bluish gray to light brown SHALE			27.4					
	3	Bluish gray to light brown SHALE			12.4	26	4		A-4(0)	SM
	4	Bluish gray to light brown SHALE			7.1					
DV-7	1	Dark brown silty CLAY			13.0					
·	2	Brown and bluish gray weathered SHALE			22.8	43	24		A-7-6(13)	CL
	3	Maroonish brown and bluish gray SHALE			11.5	31	8		A-2-4(0)	SM
	4	Maroonish brown and bluish gray SHALE			8.8					
DV-8	2	Dark brown and bluish gray silty CLAY			21.8	23	6		A-4(2)	CL-ML
	3	Dark brown and bluish gray silty CLAY			21.2					
	4	Bluish gray weathered SHALE			14.2	28	9		A-2-4(0)	SC
	5	Bluish gray weathered SHALE			5.6					
DV-9	1	Light brown to brown silty CLAY			19.1					
	2	Light brown to brown silty CLAY			9.1	NP	NP		A-3(0)	SM
	3	Light brown to brown silty CLAY			10.1					
	4	Light brown to brown silty CLAY			8.7					
DV-10	1	Light brown to brown silty CLAY			22.4					
	2	Light brown to brown silty CLAY			24.3					
	3	Light brown to brown silty CLAY			24.8	43	26		A-7-6(22)	CL
	4	Light brown to brown silty clay with SHALE frags			30.0					
DV-11	1	Brown to dark brown sandy CLAY to silty CLAY			10.4					
	2	Brown to dark brown sandy CLAY to silty CLAY			17.4					
	4	Brown to dark brown sandy CLAY to silty CLAY			25.7	28	15		A-6(11)	CL
DV 42	5	Bluish gray weathered SHALE			14.6					
DV-12	1	Brown to dark brown silty CLAY			22.1	27			A 2 4/0)	
	2	Brown to dark brown silty CLAY			17.7	27	9		A-2-4(0)	SC
	3	Brown to dark brown silty CLAY			16.8	20	1.4			 Cl
	5	Bluish gray weathered SHALE Bluish gray weathered SHALE			33.6 11.1	28	14		A-6(9)	CL
RT3-1	3	Brown to dark brown silty CLAY			19.9	32	15		A-6(4)	SC
1/17_T	4	Brown to dark brown silty CLAY			18.5				A-0(4)	
	5	Brown to dark brown silty CLAY			21.8	45	22		A-7-6(5)	SC
RT3-2	4	Dark brown silty CLAY			10.5	29	15		A-6(4)	SC
<u>-</u>	5	Dark brown silty CLAY			21.5	28	8		A-4(6)	CL
	6	Light brown silty CLAY			20.2	45	24		A-7-6(10)	CL
RT3-3	1	Dark brown sandy CLAY			3.4					
-	2	Dark brown sandy CLAY			5.6					
	3	Light brown to brown silty CLAY to CLAY			28.1	52	29		A-7-6(10)	SC
	4	Light brown to brown silty CLAY to CLAY			35.6	56	32		A-7-6(21)	СН
	7	Light brown to brown silty CLAY to CLAY			17.1	34	12		A-6(1)	SC
RT3-4	1	Brown weathered SHALE			6.2					
	2	Possible Shotrock fill material			2.9					
	4	Possible Shotrock fill material			27.0	35	18		A-6(7)	CL
	5	Brown to dark brown silty CLAY			23.7					
	7	Brown to dark brown silty CLAY			17.3					
	8	Brown silty CLAY			23.2	31	18		A-6(11)	CL
	1	Brown clayey SILT			2.6					
RT3-5	1 -	Brown clayey SILT			8.3					
RT3-5	2				35.0					
RT3-5	3	Light brown to brown silty CLAY	·		_	-4	l ar		I A 7 6/25\	CH
RT3-5	3 4	Light brown to brown silty CLAY			31.1	51	25		A-7-6(25)	
RT3-5	3 4 5	Light brown to brown silty CLAY Light brown to dark brown and gray silty CLAY			30.1					
RT3-5	3 4 5 6	Light brown to brown silty CLAY Light brown to dark brown and gray silty CLAY Light brown to dark brown and gray silty CLAY			30.1 19.2					 CL
RT3-5	3 4 5	Light brown to brown silty CLAY Light brown to dark brown and gray silty CLAY			30.1					

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2015	NH-I-640-7 (161)	28G

SEALED BY



State of Tennessee DEPARTMENT OF TRANSPORTATION

> SOIL STA. 126+00 TO STA. 138+00 I-640 KNOX COUNTY