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Payment at the contract price for the above tender item shall be full compensation for all labour, materials and equipment to do the work as described above.

- (2) Subsequent successive layers shall be oriented with the long axis of blocks positioned at 90° to the previous layer in order to avoid continuous joints. Block joints shall be offset and staggered between layers except at the vertical construction joints.
- (3) A continuous check shall be kept to ensure the evenness of the blocks is satisfactory in each layer. Blocks shall be laid with joints with maximum opening of 10 mm between blocks. Differences in heights between adjacent blocks in the same layer should not exceed 5 mm.
- (4) Sloping end adjustments at the abutments shall be accomplished by leveling terraces in the subsoil in accordance with the block thickness.
- (5) Temporary ballast shall be provided as necessary to prevent movement of expanded polystyrene both in storage and as placed due to windy conditions. Timber fasteners or equivalent shall be used as necessary.
- (6) The expanded polystyrene embankment shall be protected from accidental ignition due to welding, smoking, grinding or cutting tools, etc. The Contractor shall take all necessary precautions to prevent ignition of the expanded polystyrene.
- (7) The expanded polystyrene shall be protected from organic solvents and other aggressive, harmful chemicals during construction. The proposed method of protection during construction shall be submitted to the Contractor's Quality Verification Engineer for review and to the Contract Administrator for information purposes.
- (8) Exposed blocks shall be covered immediately to avoid possible burrowing by animals.
- (9) Individually marked blocks shall be fabricated and placed to ensure the top surface matches the elevation and crossfall shown on the drawings.
- (10) The top surface and side surfaces of the expanded polystyrene shall be covered with 6 mil polyethylene sheeting extending onto adjacent work at the longitudinal ends of the embankment. All joints shall be lapped a minimum of 300 mm to provide a fully sealed enclosure.

9.4 Concrete Top Slab

The concrete top slab shall be poured after the polyethylene sheeting is fixed in place. Place 125 mm thick layer of concrete in accordance with OPSS 904 to within ± 30 mm of the design elevation.

9.5 Backfill

Backfill over the top of the concrete slab and on the sides of the embankment shall be as shown on the Contract Drawings.

determined in accordance to ASTM C203, method 1, Procedure B.2.7.4.

7.2.2.4 Dimensional Stability

Dimensional Stability shall be determined in accordance with ASTM D2126, Procedure G. A tolerance of 1.5% shall be satisfied.

7.2.2.5 Thermal Resistance

The thermal resistance shall be 0.7 m².°C/W for a 25 mm thickness using the following equation and using the average value from three specimens:

$$R_{25mm} = \frac{R_{measured}}{\text{thickness (mm)}} \times 25$$

The thermal resistance shall be measured in accordance with ASTM C177 or C518.

7.2.2.6 Flammability

The expanded polystyrene shall be classified as to surface burning characteristics in accordance with CAN/ULC - 51022 having a flame spread rating less then 500. The expanded polystyrene shall have a minimum limiting oxygen index measured in accordance with ASTM D2863

7.2.2.7 Water Absorption

The water absorption as measured by ASTM D2842 shall be limited to 4% by volume.

7.2.2.8 Chemical Resistance

The expanded polystyrene shall be resistant to common inorganic acids and alkalies. A table identifying the chemical resistance as either resistant, limited, or not resistant shall be submitted.

7.2.2.9 Biological Resistance

The expanded polystyrene shall be resistant to biological degradation caused by organisms or enzymes.

7.2.2.10 Environmental

The expanded polystyrene shall be inert, non-nutritive and highly stable and shall not produce undesirable gases or leachate.

7.3 Polyethylene Sheeting

conformance with the installation procedures and specifications of the contract documents.

7.0 MATERIALS

7.1 Granular Leveling Pad

The leveling pad shall consist of mortar sand with gradation and physical requirements as specified in OPSS 1004.

7.2 Rigid Expanded Polystyrene

7.2.1 General

7.2.1.1 The Contractor shall submit:

1. A general statement as to the type, composition, and method of production of the material.
2. The manufacturer's name, address, phone number, identification of a contact person and description of experience background in the manufacturing of the rigid expanded polystyrene.
3. Certification of compliance of physical and mechanical properties.
4. An identification of a laboratory accredited by the Standards Council of Canada to conduct the testing of the physical and mechanical properties of the rigid expanded polystyrene.
5. The physical and mechanical properties of the rigid expanded polystyrene including:
 - 1) Geometry
 - 2) Nominal Density
 - 3) Compressive Strength
 - 4) Flexural Strength
 - 5) Thermal Resistance
 - 6) Dimensional Stability
 - 7) Flammability
 - 8) Water Absorption
6. Aging and durability characteristics of the polystyrene including the chemical, biological and ultra-violet degradation resistance of the rigid polystyrene.
7. A sample of the expanded polystyrene material to the Quality Verification Engineer for review.
8. To the Contract Administrator a Certificate of Conformance sealed and signed by the Quality Verification Engineer a minimum of one week prior to commencement of work under this item. The Certificate shall state that the expanded polystyrene material is in conformance with the requirements and specifications of the contract documents.

7.2.1.2 Production Lots

Each block of the same production lot shall be stamped with the same production code showing plant

OPSS 1605 Expanded Extruded Polystyrene Pavement Insulation

OPSS 1860 Geotextiles

3. SUBSURFACE CONDITIONS

The subsurface conditions at the site are described in the Foundation Investigation Report for this Contract.

4. DEFINITIONS

For the purpose of this special provision, the following definitions apply:

Rigid Expanded Polystyrene

Molded rigid blocks produced by a process of pre-expansion, aging and forming of petroleum based raw material.

Rigid Extruded Expanded Polystyrene

Rigid boards made by extrusion of expanded polystyrene beads.

Production Lot

The quantity of rigid polystyrene blocks produced in a continuous period of manufacturing the same grade and thickness of product within the same production day.

Quality Verification Engineer

An Engineer with a minimum of five (5) years experience related to the design and/or construction of expanded polystyrene systems of similar scope to that in the Contract, or alternatively has demonstrated expertise by providing satisfactory quality verification services for the work at a minimum of two (2) projects of similar scope to the Contract. The Quality Verification Engineer shall be retained by the Contractor to ensure conformance with the contract documents and issue of certificate(s) of conformance.

5. QUALIFICATION

The Contractor shall have on site at the commencement of the work, a representative of the supplier of the rigid expanded polystyrene to advise on recommended construction procedure.

The Contractor shall maintain liaison with the supplier throughout the construction of the embankment for advice and guidance as required. Periodic site visits by the supplier should be coordinated as required.

6. SUBMISSION AND DESIGN REQUIREMENTS

6.1 Submission of Shop Drawings

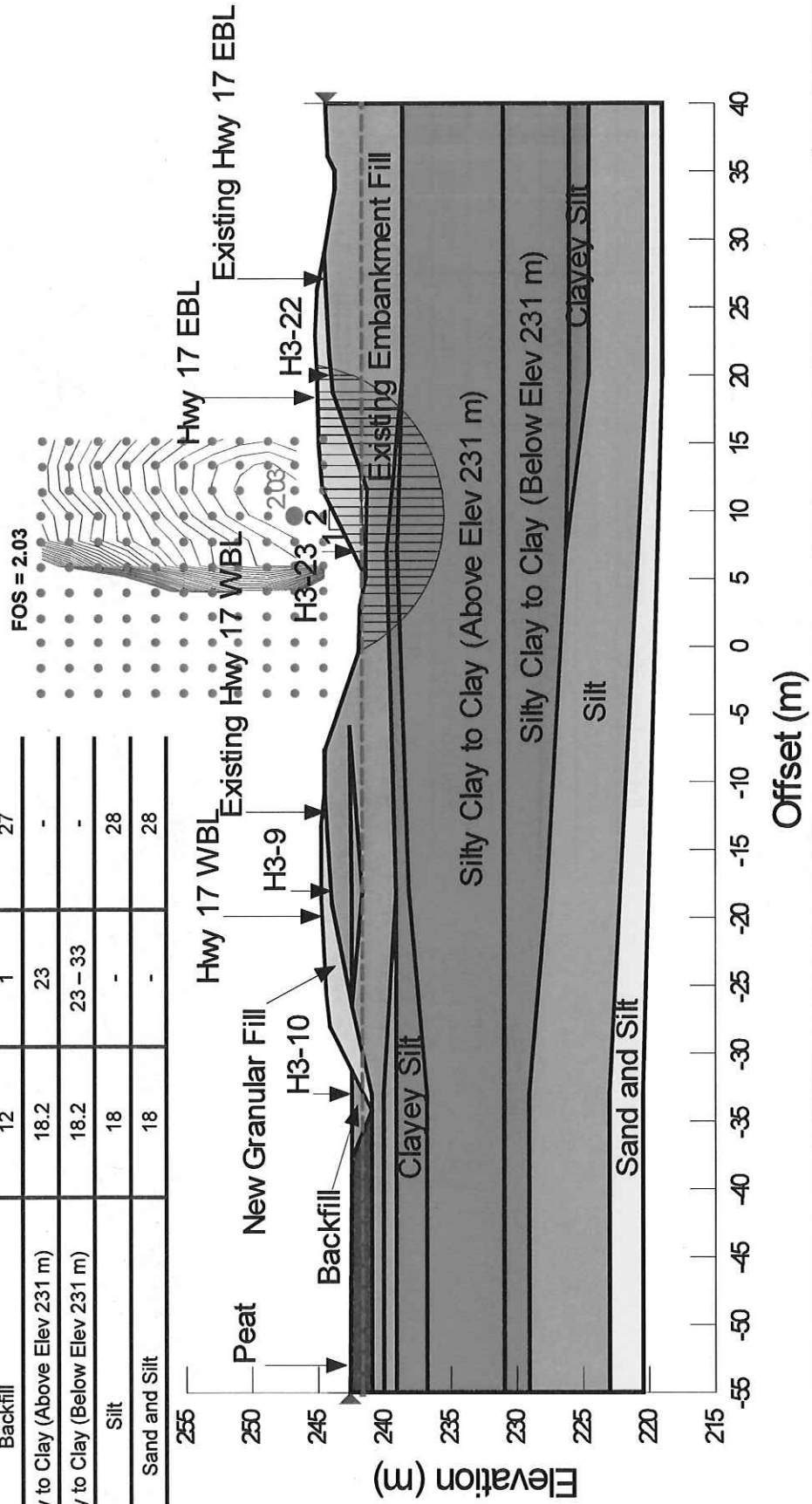
At least three weeks before the commencement of work, the Contractor shall submit to the Contract Administrator six copies of the shop drawings and method statement signed and sealed by the Quality



Stability Analysis
STA 14+100 – EBL – North Side

Figure C24

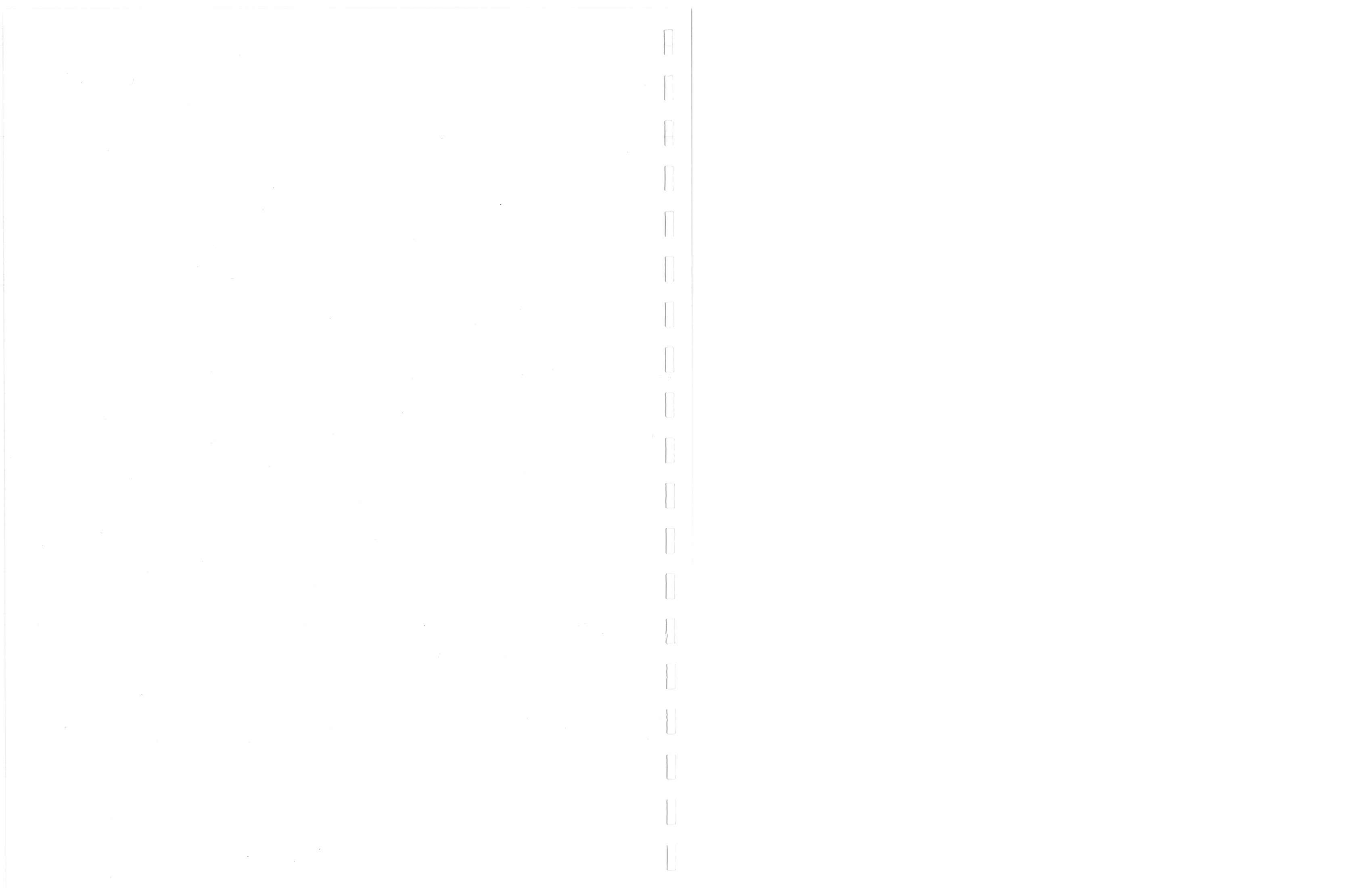
Material Name	Unit Weight (kN/m³)	Cohesion (kPa)	Friction Angle (degrees)
New Granular Fill	21	-	35
Existing Embankment Fill (Granular)	21	-	33
Existing Embankment Fill (Cohesive)	20	-	30
Peat	12	1	27
Backfill	12	1	27
Silty Clay to Clay (Above Elev 231 m)	18.2	23	-
Silty Clay to Clay (Below Elev 231 m)	18.2	23 – 33	-
Silt	18	-	28
Sand and Silt	18	-	28

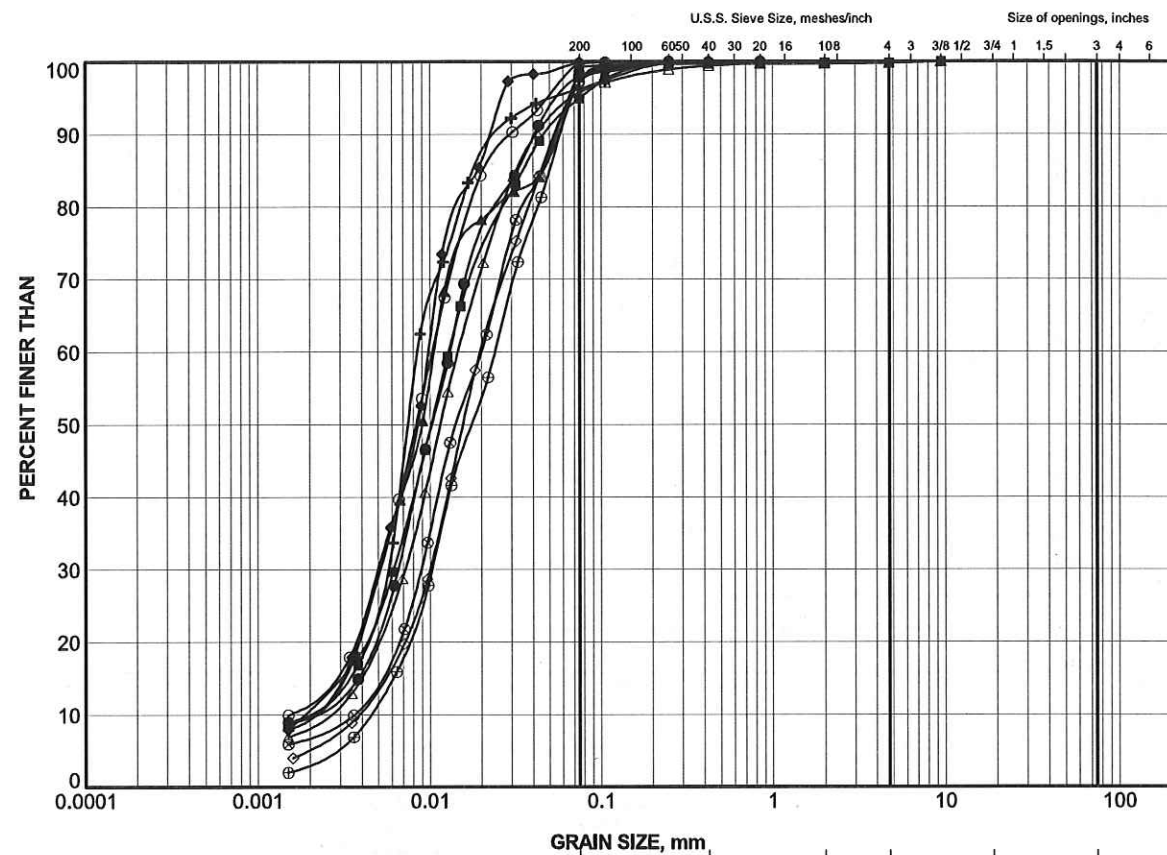


Date: July 6, 2015
Project No. 11-1191-0007

Analysis By: AC Reviewed By: SEMP






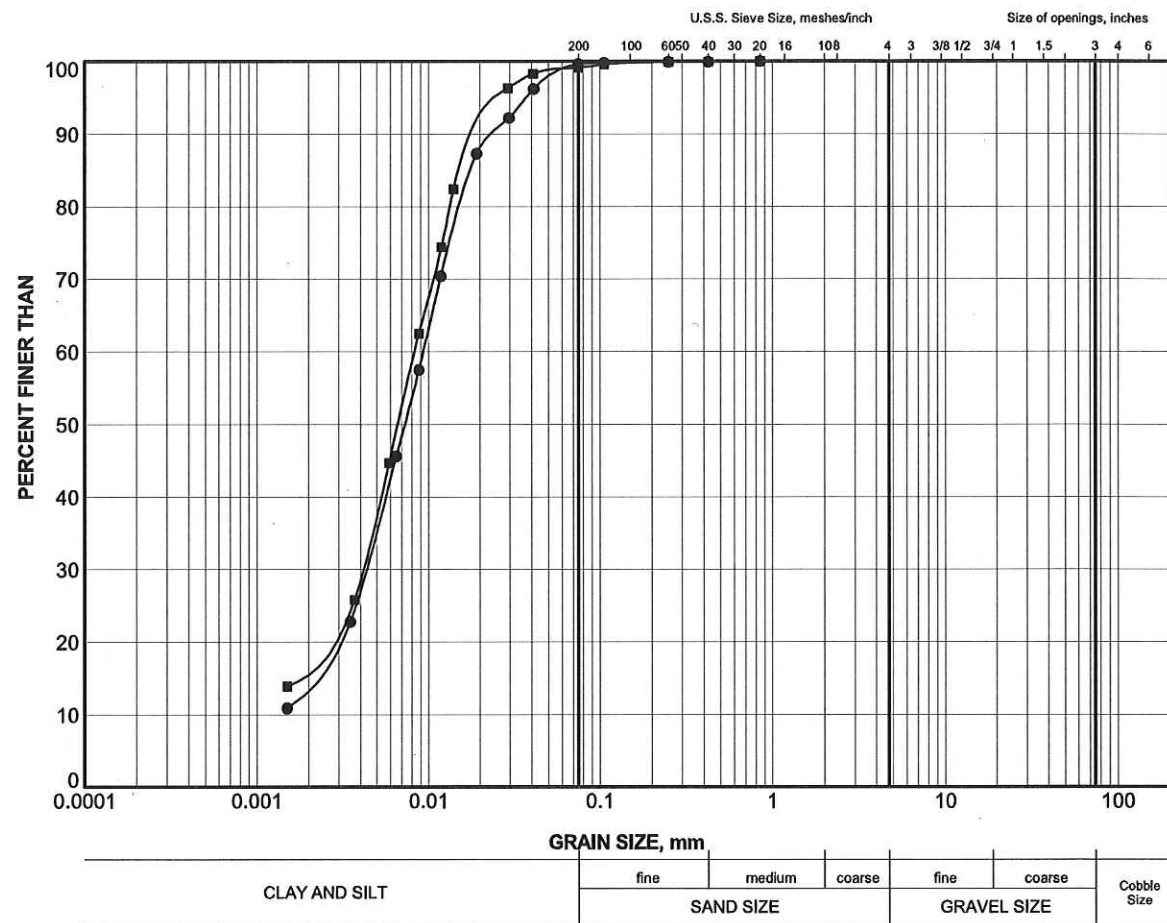


CLAY AND SILT	GRAIN SIZE, mm					Cobble Size
	fine	medium	coarse	fine	coarse	
	SAND SIZE			GRAVEL SIZE		

LEGEND


SYMBOL	BOREHOLE	SAMPLE	ELEV (m)
●	H3-16	12	230.9
■	H3-17	11	230.8
▲	H3-18	12	229.7
+	H3-19	11	228.0
◆	H3-20	12	227.2
◇	H3-21	14	222.8
○	H3-22	14	223.9
△	H3-22	16	220.8
⊗	H3-24	14	222.2
⊕	H3-26	14	222.2

PROJECT				
HIGHWAY 17 STA 13+900 TO 14+200 (EBL)				
TITLE				
GRAIN SIZE DISTRIBUTION SILT				
 Golder Associates SUDBURY, ONTARIO	PROJECT No.	11-1191-0007	FILE No.	
	DRAWN	TB	Nov 2013	SCALE
	CHECK	SEMC	Nov 2013	N/A
	APPR		Nov 2013	REV.
			FIGURE C20	



LEGEND

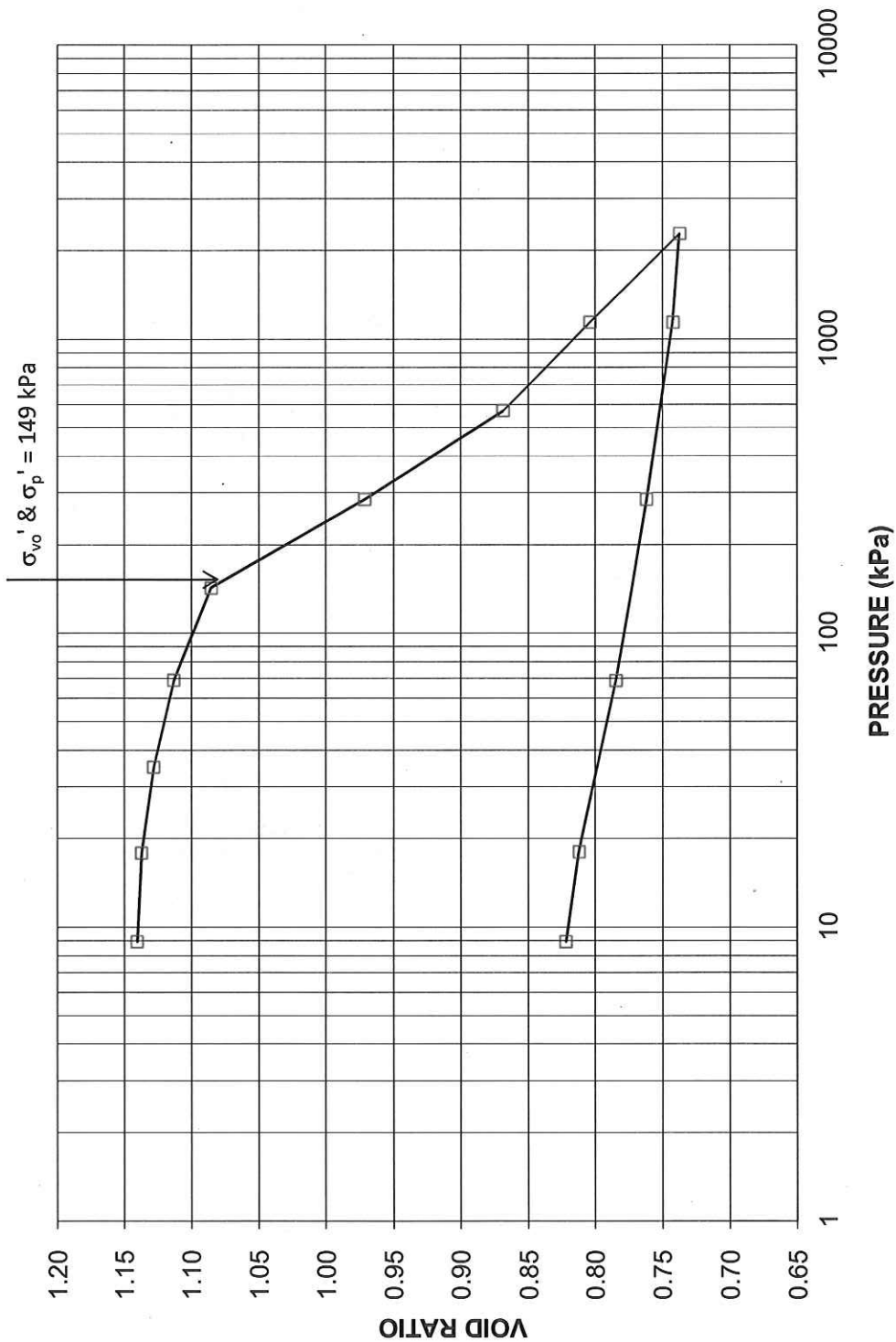
SYMBOL	BOREHOLE	SAMPLE	ELEV (m)
●	H3-14	8	237.1
■	H3-25	13	223.6

PROJECT					
HIGHWAY 17 STA 13+900 TO 14+200 (EBL)					
TITLE					
GRAIN SIZE DISTRIBUTION CLAYEY SILT to SILT					
	PROJECT No.	11-1191-0007	FILE No.	11-1191-0007.GPJ	
	DRAWN	TB	Nov 2013	SCALE	N/A
	CHECK	SEMC	Nov 2013	REV.	
	APPR		Nov 2013	FIGURE C18	

CONSOLIDATION TEST
VOID RATIO VS LOG PRESSURE

FIGURE C17
Pg. 3 of 4

CONSOLIDATION TEST
VOID RATIO vs PRESSURE
BH H3-24 Sa 9



CONSOLIDATION TEST SUMMARY

FIGURE C17
Pg. 1 of 4

SAMPLE IDENTIFICATION

Project Number: 11-1191-0007

Sample Number: 9

Borehole Number: H3-24

Sample Depth, m: 12.5

TEST CONDITIONS

Test Type

Standard

Load Duration, hr

24

Oedometer Number

1

Date Started

Sept. 28/12

Date Completed

Oct. 12/12

SAMPLE DIMENSIONS AND PROPERTIES - INITIAL

Sample Height, cm

2.544

Unit Weight, kN/m³

18.38

Sample Diameter, cm

6.353

Dry Unit Weight, kN/m³

12.64

Area, cm²

31.70

Specific Gravity, Measured

2.76

Volume, cm³

80.64

Solids Height, cm

1.186

Water Content, %

45.45

Volume of Solids, cm³

37.60

Wet Mass, g

151.18

Volume of Voids, cm³

43.04

Dry Mass, g

103.94

TEST COMPUTATIONS

Pressure	Primary	Corr.		Average					Total
kPa	Consolidation	Height	Void	Height	t ₉₀	cv.	mv	k	Work
		cm	Ratio	cm	sec	cm ² /s	m ² /kN	cm/s	kJ/m3
0	0	2.544	1.144	2.544					
9	0.05	2.539	1.140	2.541	866	0.0016	2.08E-04	3.23E-08	0.008
18	0.04	2.535	1.137	2.537	346	0.0039	1.69E-04	6.54E-08	0.029
35	0.11	2.524	1.128	2.530	694	0.0020	2.49E-04	4.77E-08	0.142
69	0.18	2.507	1.113	2.515	540	0.0025	2.03E-04	4.94E-08	0.506
143	0.33	2.474	1.085	2.490	960	0.0014	1.77E-04	2.37E-08	1.900
285	1.35	2.339	0.972	2.406	2160	0.0006	3.73E-04	1.70E-08	12.371
570	1.22	2.217	0.869	2.278	1382	0.0008	1.68E-04	1.31E-08	34.682
1140	0.77	2.140	0.804	2.178	577	0.0017	5.32E-05	9.09E-09	64.384
2279	0.79	2.060	0.737	2.100	540	0.0017	2.73E-05	4.64E-09	127.655
1140	-0.06	2.066	0.742	2.063					
285	-0.23	2.090	0.762	2.078					
69	-0.27	2.117	0.785	2.103					
18	-0.33	2.150	0.812	2.133					
9	-0.12	2.161	0.822	2.156					

Note:

k calculated using α based on t₉₀ values.

SAMPLE DIMENSIONS AND PROPERTIES - FINAL

Sample Height, cm

2.161

Unit Weight, kN/m³

18.79

Sample Diameter, cm

6.35

Dry Unit Weight, kN/m³

14.88

Area, cm²

31.70

Specific Gravity, Measured

2.76

Volume, cm³

68.52

Solids Height, cm

1.186

Water Content, %

26.33

Volume of Solids, cm³

37.60

Wet Mass, g

131.31

Volume of Voids, cm³

30.92

Dry Mass, g

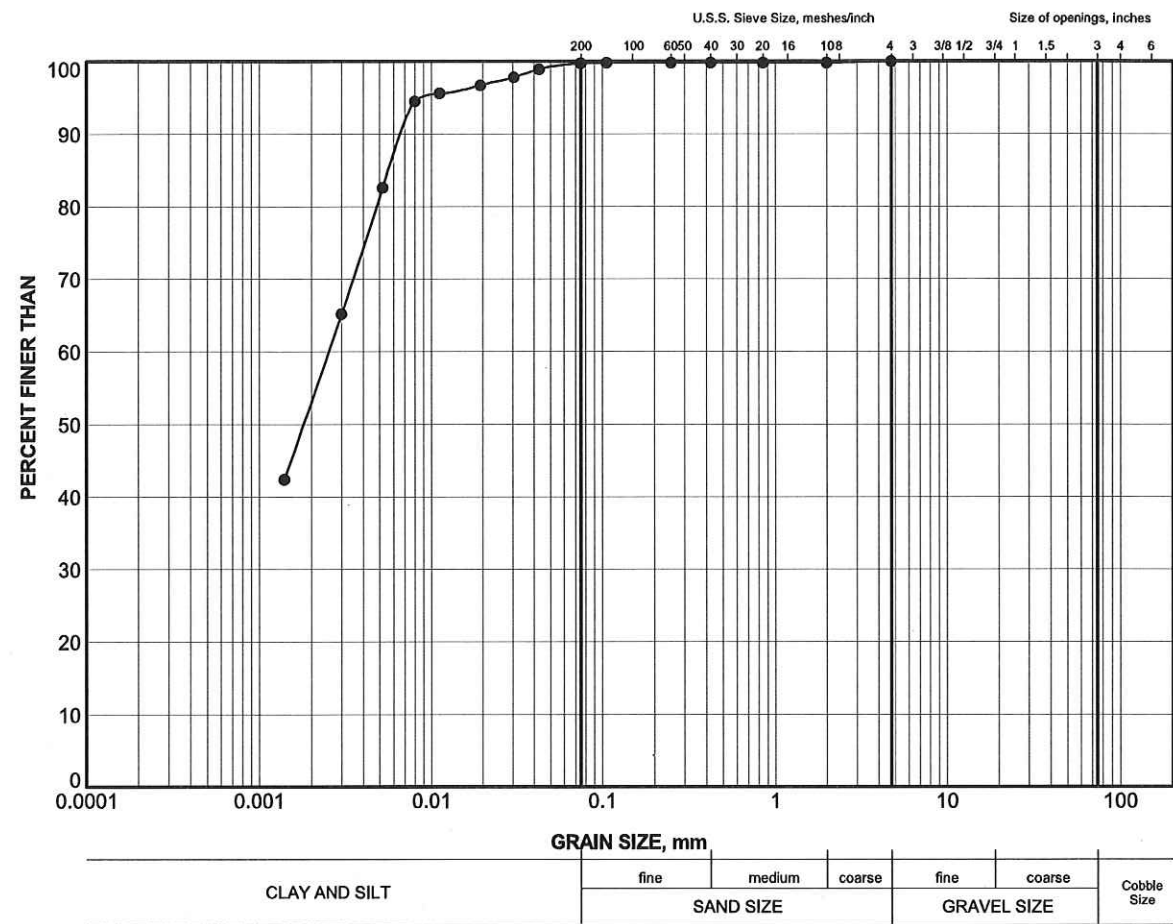
103.94

Prepared By: TG

Golder Associates

Checked By:

SUD-MTO GSD (NEW) GLDR_LDN.GDT



LEGEND

SYMBOL	BOREHOLE	SAMPLE	ELEV (m)
●	H3-20	7	234.9


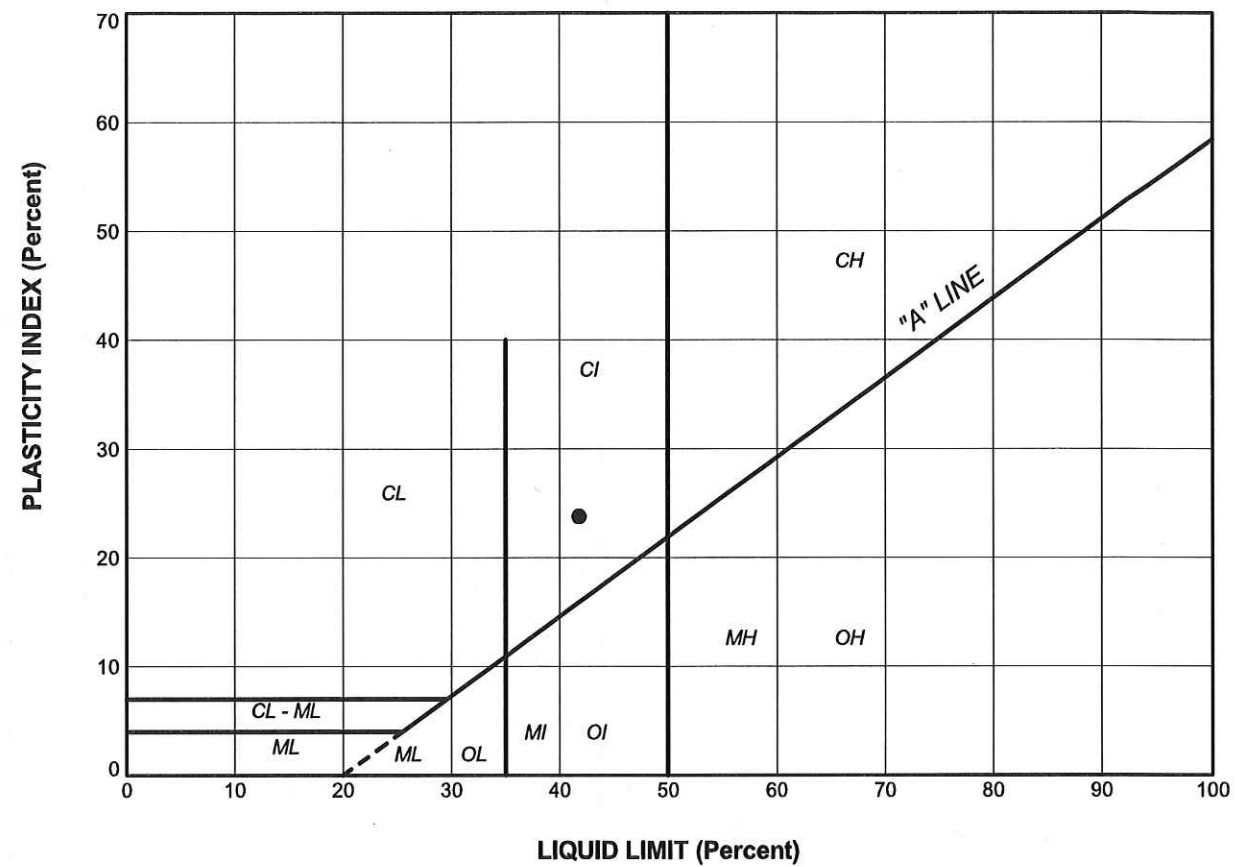
PROJECT				
HIGHWAY 17 STA 13+900 TO 14+200 (EBL)				
TITLE				
GRAIN SIZE DISTRIBUTION SILTY CLAY				
 Golder Associates SUDBURY, ONTARIO	PROJECT No. 11-1191-0007		FILE No. 11-1191-0007.GPJ	
	DRAWN	TB	Jun 2015	SCALE N/A
	CHECK	SEMC	Jun 2015	REV.
	APPR		Jun 2015	

FIGURE C15

SUD-ATO PL (NEW) GLDR LON.GDT




SOIL TYPE
C = Clay
M = Silt
O = Organic

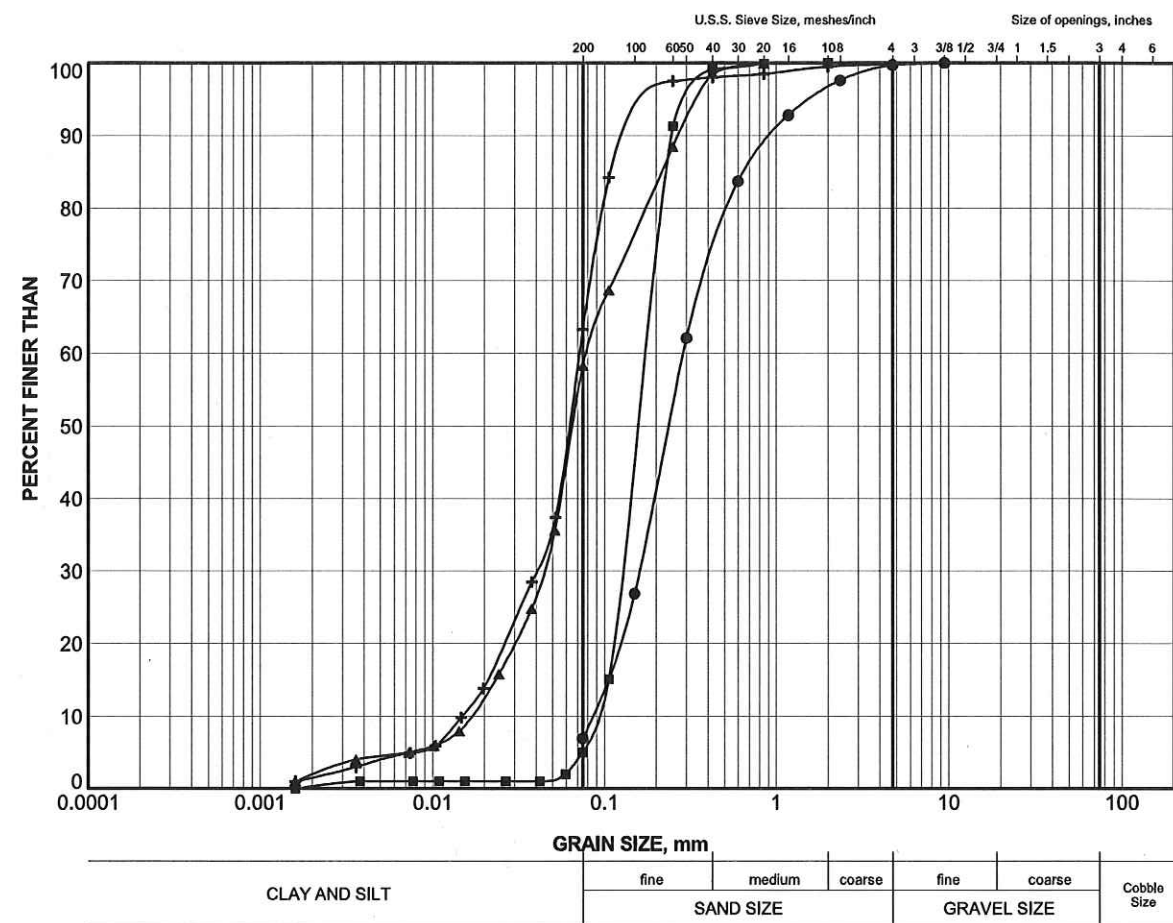
PLASTICITY
L = Low
I = Intermediate
H = High

LEGEND

SYMBOL	BOREHOLE	SAMPLE	LL(%)	PL(%)	PI
●	H3-20	3A	41.8	18.0	23.8


PROJECT		HIGHWAY 17 STA 13+900 TO 14+200 (EBL)			
TITLE		PLASTICITY CHART SILTY CLAY (FILL)			
 Golder Associates SUDBURY, ONTARIO	PROJECT No.	11-1191-0007	FILE No.	11-1191-0007.GPJ	
	DRAWN	TB	Nov 2013	SCALE	N/A
	CHECK	SEMC	Nov 2013	REV.	
	APPR		Nov 2013		
		FIGURE C13			

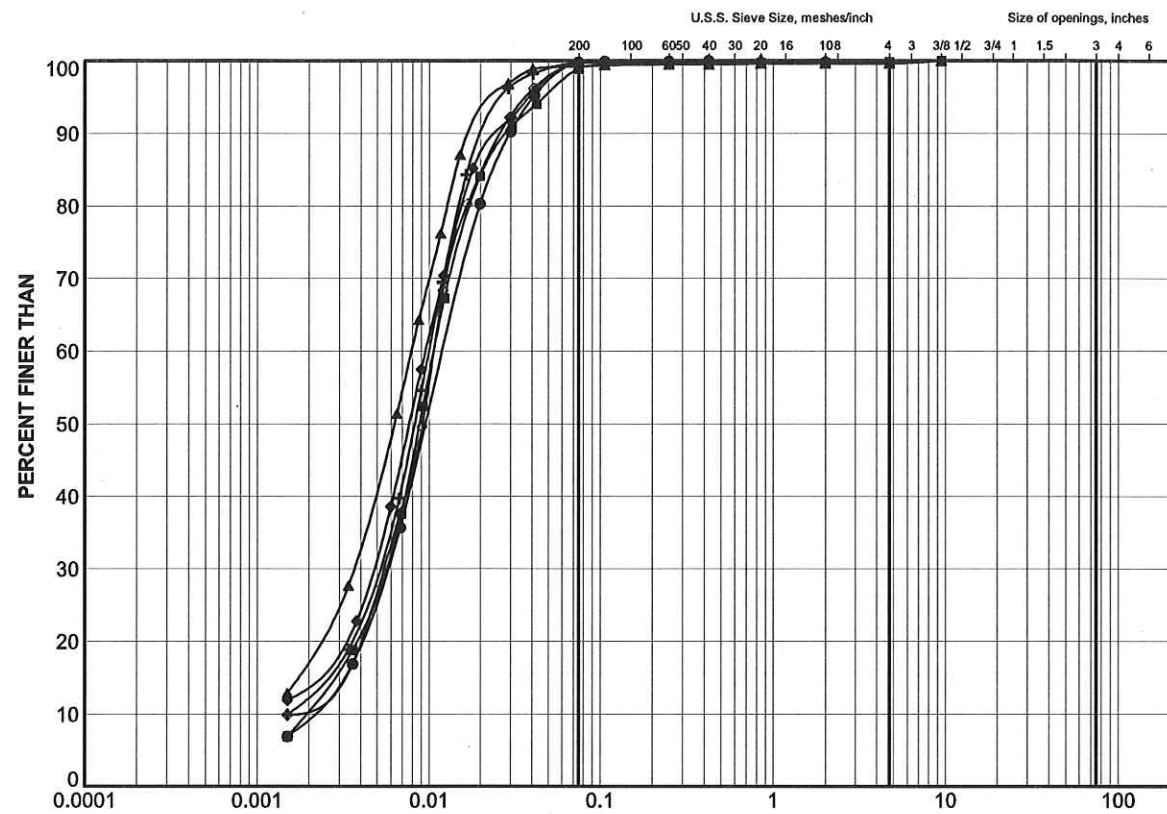
SUD-MTO GSD (NEW) GLDR_LDN.GDT



LEGEND

SYMBOL	BOREHOLE	SAMPLE	ELEV (m)
●	H3-2	11	231.0
■	H3-4	12	228.9
▲	H3-7	17	222.4
+	H3-10	13	222.3


PROJECT							
HIGHWAY 17 STA 13+900 TO 14+200 (WBL)							
TITLE							
GRAIN SIZE DISTRIBUTION SAND to SAND and SILT							
 Golder Associates SUDBURY, ONTARIO		PROJECT No.	11-1191-0007	FILE No.	11-1191-0007.GPJ		
		DRAWN	TB	Nov 2013	SCALE	N/A	REV.
		CHECK	SEMC	Nov 2013			
		APPR		Nov 2013			
FIGURE C11							



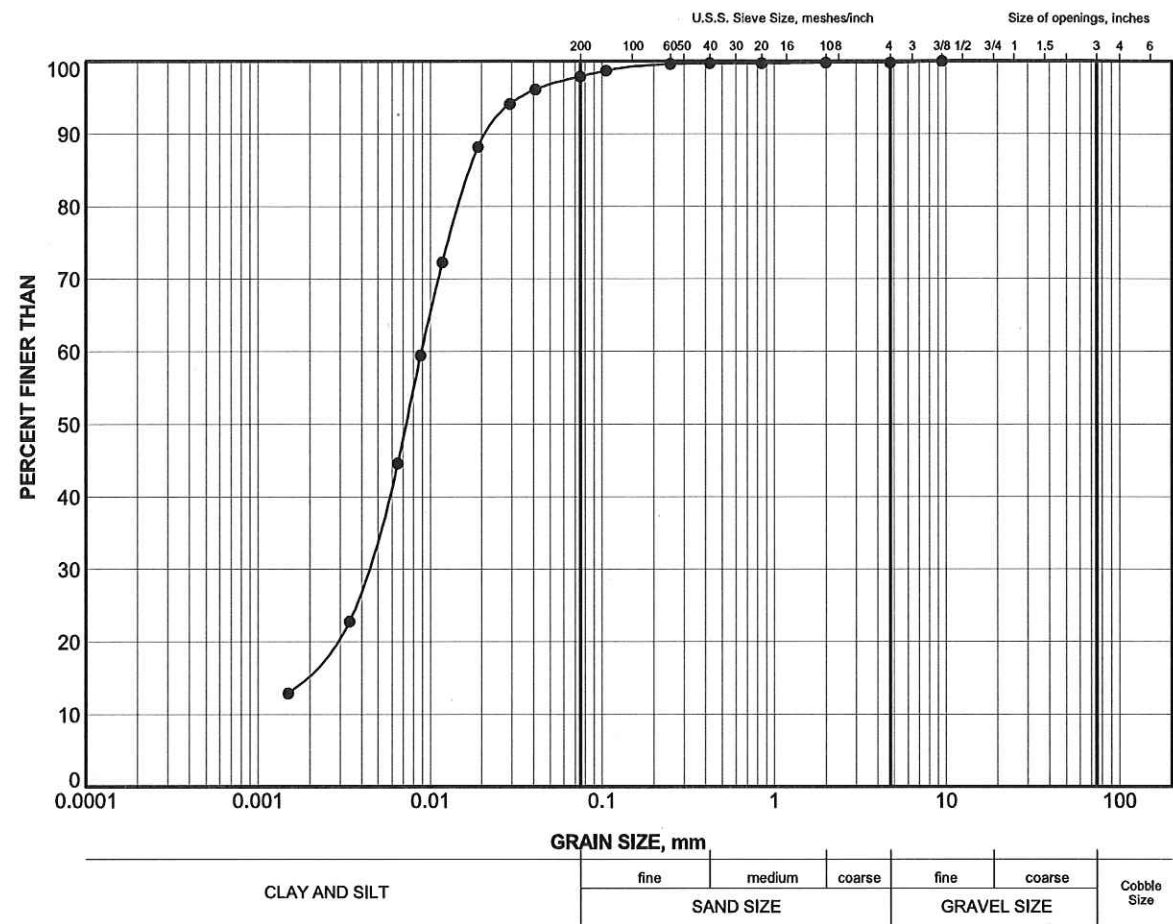
GRAIN SIZE, mm						
CLAY AND SILT	fine	medium	coarse	fine	coarse	Cobble Size
	SAND SIZE			GRAVEL SIZE		

LEGEND

SYMBOL	BOREHOLE	SAMPLE	ELEV (m)
●	H3-5	14	229.4
■	H3-8	13	226.1
▲	H3-10	9	228.4
+	H3-11	15	226.7
◆	H3-12	11	225.3
◇	H3-13	16	225.3


PROJECT					
HIGHWAY 17 STA 13+900 TO 14+200 (WBL)					
TITLE					
GRAIN SIZE DISTRIBUTION SILT					
 Golder Associates SUDBURY, ONTARIO		PROJECT No. 11-1191-0007		FILE No. 11-1191-0007.GPJ	
		DRAWN	TB	Nov 2013	SCALE N/A
		CHECK	SEMC	Nov 2013	REV.
		APPR		Nov 2013	
FIGURE C9					

SUD-MTO GSD (NEW) GLDR_LDN.GDT



LEGEND

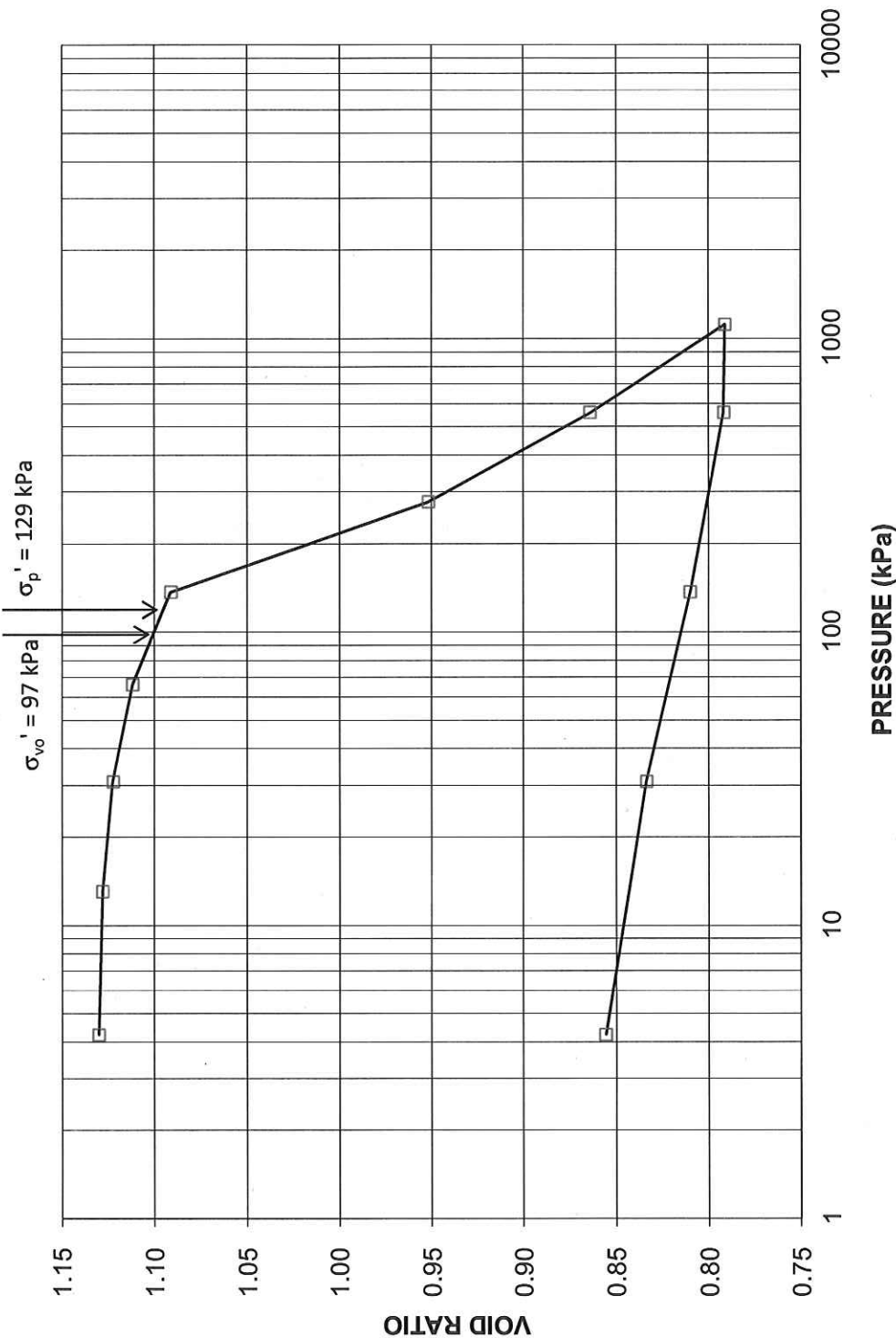
SYMBOL	BOREHOLE	SAMPLE	ELEV (m)
●	H3-7	14	228.5

PROJECT							
HIGHWAY 17 STA 13+900 TO 14+200 (WBL)							
TITLE							
GRAIN SIZE DISTRIBUTION CLAYEY SILT to SILT							
		PROJECT No.		11-1191-0007			
		FILE No.		11-1191-0007.GPJ			
		DRAWN	TB	Nov 2013	SCALE	N/A	REV.
		CHECK	SEMC	Nov 2013			
		APPR		Nov 2013	FIGURE C7		

CONSOLIDATION TEST
VOID RATIO VS LOG PRESSURE

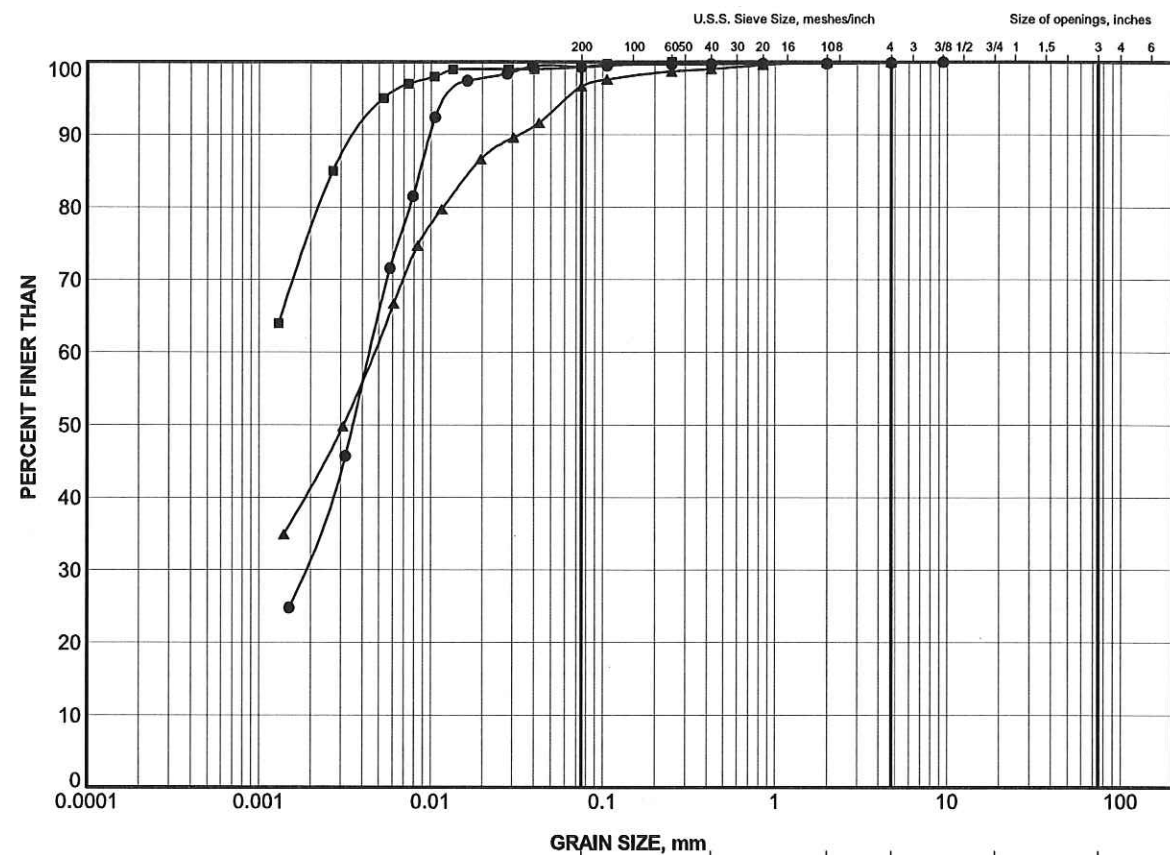
FIGURE C6
Pg. 3 of 4

CONSOLIDATION TEST
VOID RATIO vs PRESSURE
BH H3-12 Sa 7



CONSOLIDATION TEST SUMMARY					FIGURE C6 Pg. 1 of 4				
SAMPLE IDENTIFICATION									
Project Number: 11-1191-0007					Sample Number: 7				
Borehole Number: H3-12					Sample Depth, m: 11				
TEST CONDITIONS									
Test Type Standard					Load Duration, hr 24				
Oedometer Number 2									
Date Started January 10, 2013									
Date Completed January 24, 2013									
SAMPLE DIMENSIONS AND PROPERTIES - INITIAL									
Sample Height, cm 2.526					Unit Weight, kN/m³ 18.08				
Sample Diameter, cm 6.351					Dry Unit Weight, kN/m³ 12.77				
Area, cm² 31.68					Specific Gravity, Measured 2.78				
Volume, cm³ 80.02					Solids Height, cm 1.184				
Water Content, % 41.60					Volume of Solids, cm³ 37.50				
Wet Mass, g 147.52					Volume of Voids, cm³ 42.52				
Dry Mass, g 104.18									
TEST COMPUTATIONS									
Pressure	Primary	Corr.		Average					Total
kPa	Consolidation	Height	Void	Height	t ₉₀	cv.	mv	k	Work
		cm	Ratio	cm	sec	cm²/s	m²/kN	cm/s	kJ/m3
0	0	2.526	1.134	2.526					
4	0.04	2.522	1.130	2.524	540	0.0025	4.01E-04	9.82E-08	0.004
13	0.02	2.519	1.128	2.521	240	0.0056	1.08E-04	5.97E-08	0.012
31	0.07	2.513	1.122	2.516	375	0.0036	1.49E-04	5.23E-08	0.070
66	0.13	2.500	1.112	2.506	346	0.0039	1.42E-04	5.35E-08	0.315
137	0.24	2.476	1.091	2.488	470	0.0028	1.36E-04	3.72E-08	1.297
277	1.65	2.311	0.952	2.393	2693	0.0005	4.65E-04	2.05E-08	15.085
558	1.05	2.206	0.864	2.258	470	0.0023	1.47E-04	3.32E-08	33.967
1117	0.86	2.120	0.791	2.163	821	0.0012	6.07E-05	7.19E-09	66.542
558	-0.01	2.121	0.792	2.121					
137	-0.21	2.143	0.810	2.132					
31	-0.28	2.171	0.834	2.157					
4	-0.26	2.197	0.856	2.184					
Note: k calculated using α based on t ₉₀ values.									
SAMPLE DIMENSIONS AND PROPERTIES - FINAL									
Sample Height, cm 2.197					Unit Weight, kN/m³ 18.60				
Sample Diameter, cm 6.35					Dry Unit Weight, kN/m³ 14.68				
Area, cm² 31.68					Specific Gravity, Measured 2.78				
Volume, cm³ 69.59					Solids Height, cm 1.184				
Water Content, % 26.72					Volume of Solids, cm³ 37.50				
Wet Mass, g 132.02					Volume of Voids, cm³ 32.09				
Dry Mass, g 104.18									
Prepared By: TG					Golder Associates				
					Checked By:				

SUD-MTO GSD (NEW) GLDR_LDN.GDT



CLAY AND SILT

GRAIN SIZE, mm

fine	medium	coarse	fine	coarse	Cobble Size
SAND SIZE			GRAVEL SIZE		

LEGEND

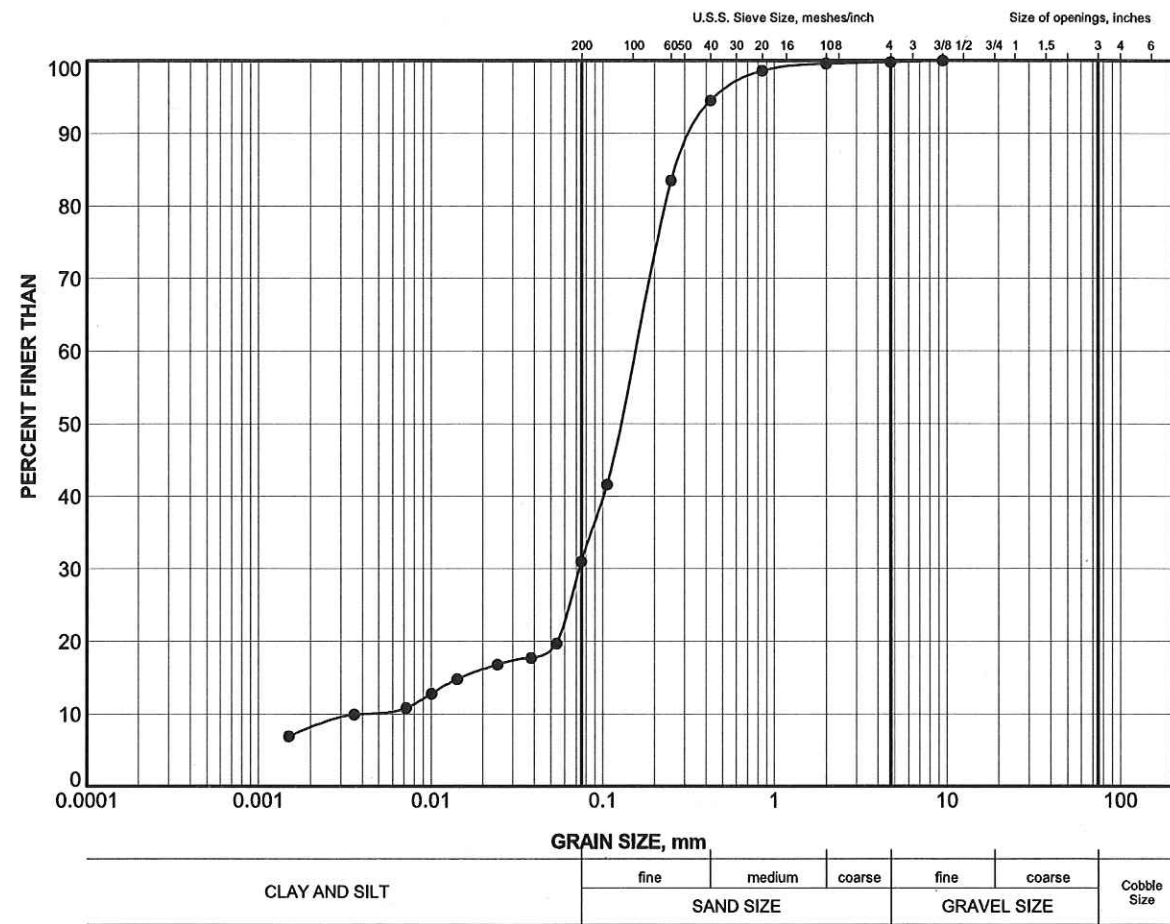
SYMBOL	BOREHOLE	SAMPLE	ELEV (m)
●	H3-3	10	233.7
■	H3-6	7	233.4
▲	H3-7	8	237.6

PROJECT		HIGHWAY 17 STA 13+900 TO 14+200 (WBL)	
TITLE		GRAIN SIZE DISTRIBUTION SILTY CLAY to CLAY	
PROJECT No. 11-1191-0007		FILE No. 11-1191-0007.GPJ	
DRAWN	TB	Nov 2013	SCALE N/A
CHECK	SEMC	Nov 2013	REV.
APPR		Nov 2013	

FIGURE C4




SUD-MTO GSD (NEW) GLDR LDR.GDT



LEGEND

SYMBOL	BOREHOLE	SAMPLE	ELEV (m)
●	H3-1	5	241.8

PROJECT				
HIGHWAY 17 STA 13+900 TO 14+200 (WBL)				
TITLE				
GRAIN SIZE DISTRIBUTION SILTY SAND				
	PROJECT No.		11-1191-0007	
	FILE No.		11-1191-0007.GPJ	
	DRAWN	TB	Nov 2013	SCALE
	CHECK	SEMC	Nov 2013	REV.
	APPR	Nov 2013	FIGURE C2	



+³, ×³: Numbers refer to Sensitivity ○³% STRAIN AT FAILURE

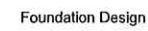


PROJECT 11-1191-0007		RECORD OF DCPT No H3-DC11				3 OF 3		METRIC						
G.W.P. 156-98-00		LOCATION N 5137480.3; E 278101.7				ORIGINATED BY LK								
DIST HWY 17		BOREHOLE TYPE Dynamic Cone Penetration Test				COMPILED BY EC								
DATUM Geodetic		DATE June 12, 2012				CHECKED BY SEMC								
SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT			PLASTIC LIMIT W _p	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE			"N" VALUES	SHEAR STRENGTH kPa						
-- CONTINUED FROM PREVIOUS PAGE --							20 40 60 80 100							
212.9						213	○ UNCONFINED + FIELD VANE							
30.5	END OF DCPT						● QUICK TRIAXIAL × REMOULDED			WATER CONTENT (%)				
	Note: 1. Augered through embankment fill and advanced DCPT starting at 4.9 m depth below ground surface.						20 40 60 80 100			20 40 60				

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 08/11/13 DATA INPUT:

Continued Next Page

+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE



PROJECT <u>11-1191-0007</u>		RECORD OF DCPT No H3-DC10		1 OF 2	METRIC
G.W.P. <u>156-98-00</u>	LOCATION <u>N 5137463.4; E 278049.1</u>	ORIGINATED BY <u>EHS</u>			
DIST <u> </u> HWY <u>17</u>	BOREHOLE TYPE <u>Dynamic Cone Penetration Test</u>	COMPILED BY <u>EC</u>			
DATUM <u>Geodetic</u>	DATE <u>June 14, 2012</u>	CHECKED BY <u>SEMC</u>			

[illegible]

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+³, ×³: Numbers refer to Sensitivity ○^{3%} STRAIN AT FAILURE

ISSUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 08/11/13 DATA INPUT:

Continued Next Page

+³, ×³: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

Continued Next Page

+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE



PROJECT 11-1191-0007		RECORD OF DCPT No H3-DC6		2 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137560.9; E 278089.1		ORIGINATED BY LK	
DIST HWY 17		BOREHOLE TYPE Dynamic Cone Penetration Test		COMPILED BY EC	
DATUM Geodetic		DATE June 28, 2012		CHECKED BY SEMC	

SOIL PROFILE		SAMPLES			GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT			PLASTIC LIMIT W _p	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ	REMARKS & GRAIN SIZE DISTRIBUTION (%)					
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE			"N" VALUES	20	40						60	80	100	20	40
-- CONTINUED FROM PREVIOUS PAGE --																			
218.8	END OF DCPT REFUSAL TO FURTHER PENETRATION (100 Blows / 0.28 m)						226												
23.1							225												
							224												
							223												
							222												
							221												
							220												
							219												

SUD_MTO 003 11-1191-0007.GPJ GAL-MSS.GDT 08/11/13 DATA INPUT:

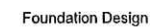


PROJECT 11-1191-0007		RECORD OF DCPT No H3-DC5		2 OF 2 METRIC	
G.W.P. 156-98-00		LOCATION N 5137509.4; E 278072.8		ORIGINATED BY LK	
DIST _____ HWY 17		BOREHOLE TYPE Dynamic Cone Penetration Test		COMPILED BY EC	
DATUM Geodetic		DATE June 18, 2012		CHECKED BY SEMC	

SOIL PROFILE		SAMPLES				GROUND WATER CONDITIONS	ELEVATION SCALE	DYNAMIC CONE PENETRATION RESISTANCE PLOT		PLASTIC LIMIT W _P	NATURAL MOISTURE CONTENT W	LIQUID LIMIT W _L	UNIT WEIGHT γ kN/m ³	REMARKS & GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
ELEV DEPTH	DESCRIPTION	STRAT PLOT	NUMBER	TYPE	"N" VALUES			SHEAR STRENGTH kPa						
--- CONTINUED FROM PREVIOUS PAGE ---								20 40 60 80 100	20 40 60					
								○ UNCONFINED + FIELD VANE ● QUICK TRIAXIAL × REMOULDED						
								20 40 60 80 100	20 40 60					
							229							
							228							
							227							
							226							
							225							
							224							
							223							
							222							
							221							
							220							
							219							
							218							
							217							
216.5														
27.7	END OF DCPT REFUSAL TO FURTHER PENETRATION (100 Blows / 0.28 m) Note: 1. Augered through embankment fill and advanced DCPT starting at 4.6 m depth below ground surface.													

+ 3, × 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE

SUD_MTO 003 11-1191-0007.GPJ GAL-MISS.GDT 08/11/13 DATA INPUT:



+³, ×³: Numbers refer to Sensitivity ○^{3%} STRAIN AT FAILURE



+ 3, x 3: Numbers refer to Sensitivity ○ 3% STRAIN AT FAILURE