

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5470

2015 Corridor Drilling, km 1436.4 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734251.5m E493157.8m ELEVATION: 755.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C.	LIQUID						
755					1	ML		SANDY SILT -Greyish brown, damp, loose	1
754								SILT with SAND -Greyish brown, damp, loose	2
753					2	ML			
752								SANDY SILT -Greyish brown, damp, loose	3
751					3	ML			4
								END of HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 4.5m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5471

2015 Corridor Drilling, km 1435.1 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6733689.2m E494412.5m ELEVATION: 741.5m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100	0 20 40 60 80 100	0 20 40 60 80 100						
741	PLASTIC M.C. LIQUID 0 20 40 60 80 100	0 20 40 60 80 100	0 20 40 60 80 100		4	GM		SILTY GRAVEL -Brownish, damp, sub-angular -Some organics	0.5
740								END of HOLE -Refusal, bedrock	1
739									2
738									3
737									4



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi


Termination Depth: 0.5m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

Pit #:

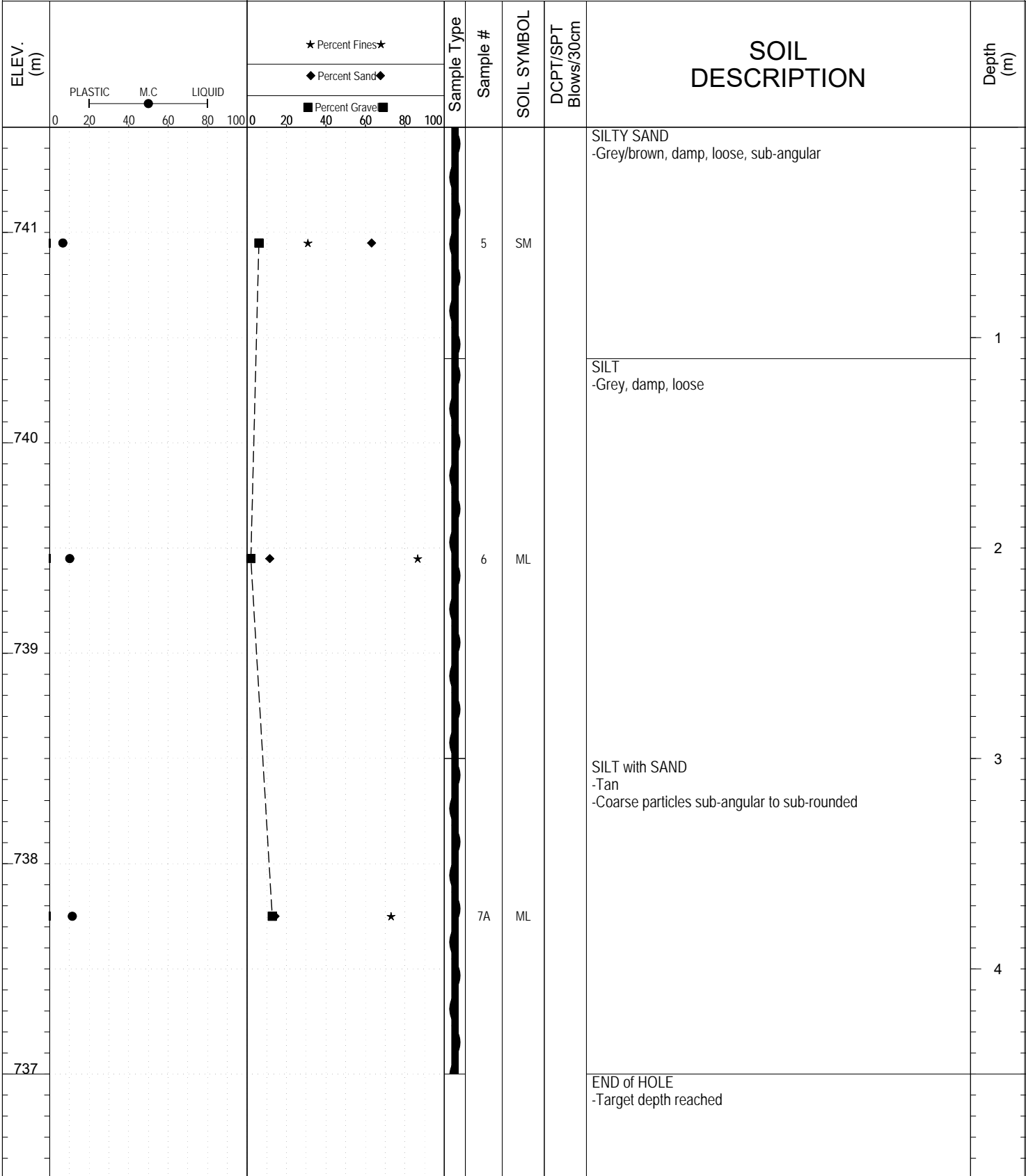
SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5471-RA				
		2015 Corridor Drilling, km 1435.1 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6733689.2m E494412.5m		ELEVATION: 741.5m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
		0 20 40 60 80 100						
741							SAND with GRAVEL -Brownish, damp, sub-angular -Some organics	
740							END of HOLE -Refusal, bedrock	1
739								2
738								3
737								4
		Highways and Public Works Transportation Engineering Branch		LOGGED BY: Dave Lorenzi COMPILED BY: M. Jubinville REVIEWED BY: R. Stilwell		Termination Depth: 0.5m Complete: 9/26/2015 Pit #:		Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5471-RB

2015 Corridor Drilling, km 1435.1 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6733801.5m E494305.6m ELEVATION: 741.5m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 4.5m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5473				
		2015 Corridor Drilling, km 1434.6 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6733608.1m E494484.9m		ELEVATION: 736.2m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
736							SILT -Tan, damp, loose	
				7B	ML			1
735							-Light grey -Trace organics	
				8	ML			2
734								
				9	ML		SILT with SAND -Light grey, compact	3
733								
				10	ML			4
732								



SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5473

2015 Corridor Drilling, km 1434.6 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6733608.1m E494484.9m ELEVATION: 736.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Grave■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100	0 20 40 60 80 100	0 20 40 60 80 100						
731	●	◆	■	AUGER	10	ML			
730									END of HOLE -Target depth reached
729									7
728									8
727									9



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Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5474

2015 Corridor Drilling, km 1436.95 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734275m E493004.6m ELEVATION: 753.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100	0 20 40 60 80 100	0 20 40 60 80 100						
753					11			SAND with GRAVEL -Brown, damp, compact -Round to sub-rounded	1
752									END of HOLE -Refusal, bedrock
751									3
750									4
749									



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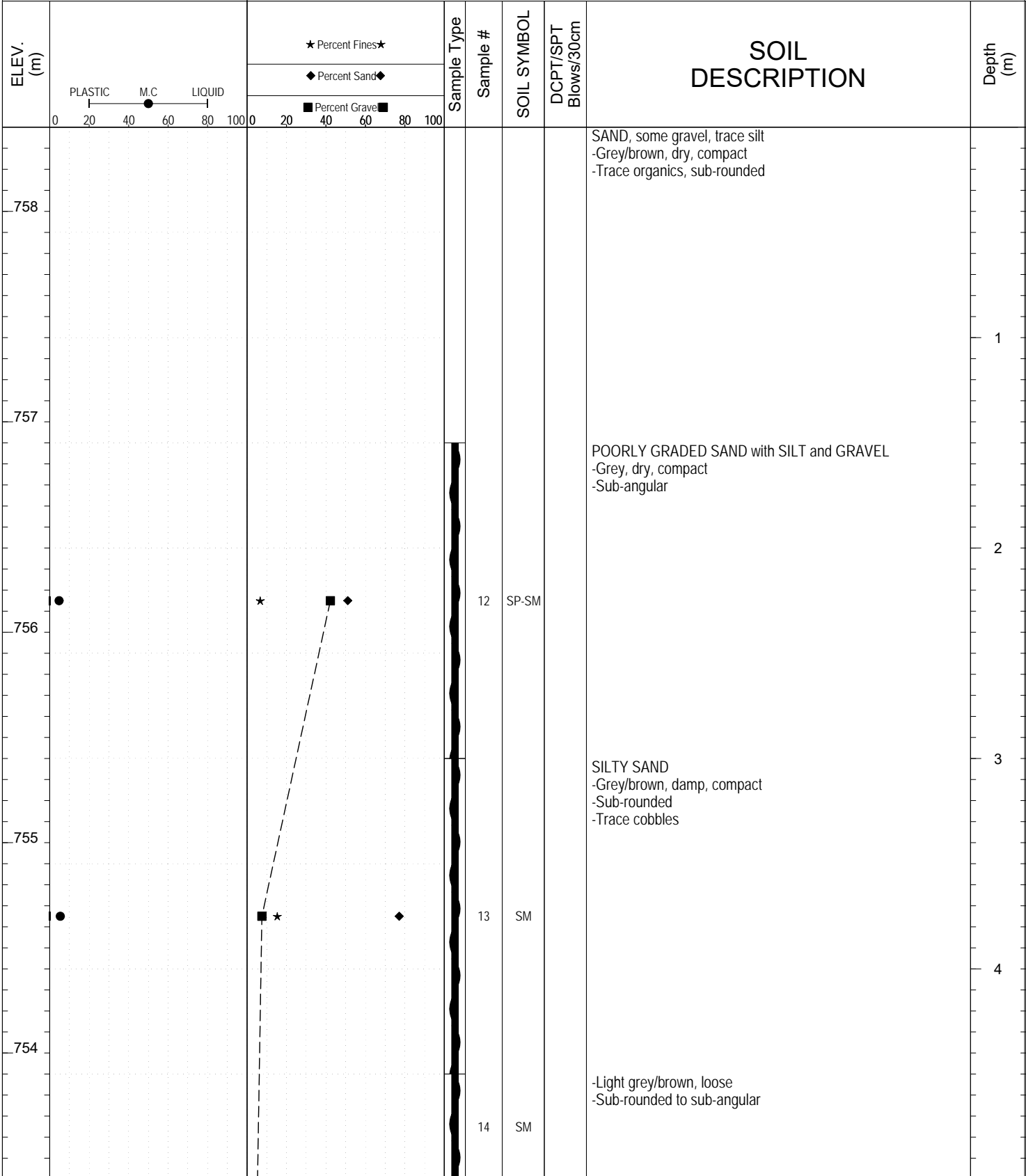
LOGGED BY: Dave Lorenzi	Termination Depth: 0.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5474-RA

2015 Corridor Drilling, km 1436.95 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734469.4m E492394m ELEVATION: 758.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5474-RA

2015 Corridor Drilling, km 1436.95 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734469.4m E492394m ELEVATION: 758.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0	20	40						
753	0	20	40	60	80	100		-Light grey/brown, loose -Sub-rounded to sub-angular	
752								END of HOLE -Target depth reached	6
751									7
750									8
749									9



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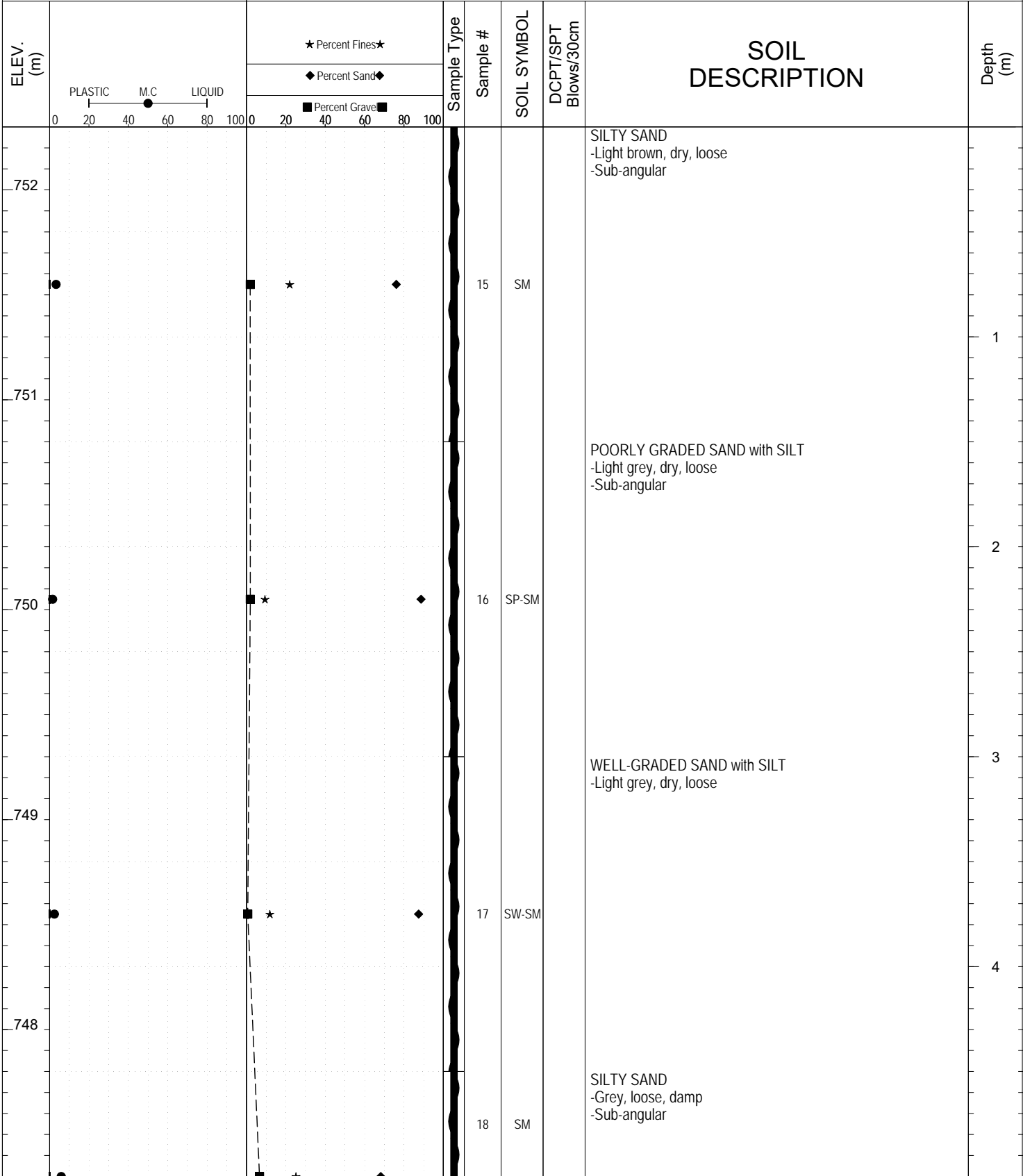
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5476

2015 Corridor Drilling, km 1436.8 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734289.8m E492869.2m ELEVATION: 752.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 5.7m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5476

2015 Corridor Drilling, km 1436.8 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734289.8m E492869.2m ELEVATION: 752.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
747					18	SM		SILTY SAND -Grey, loose, damp -Sub-angular	
								END of HOLE -Target depth reached	6
746									7
745									8
744									9
743									



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Transportation Engineering Branch

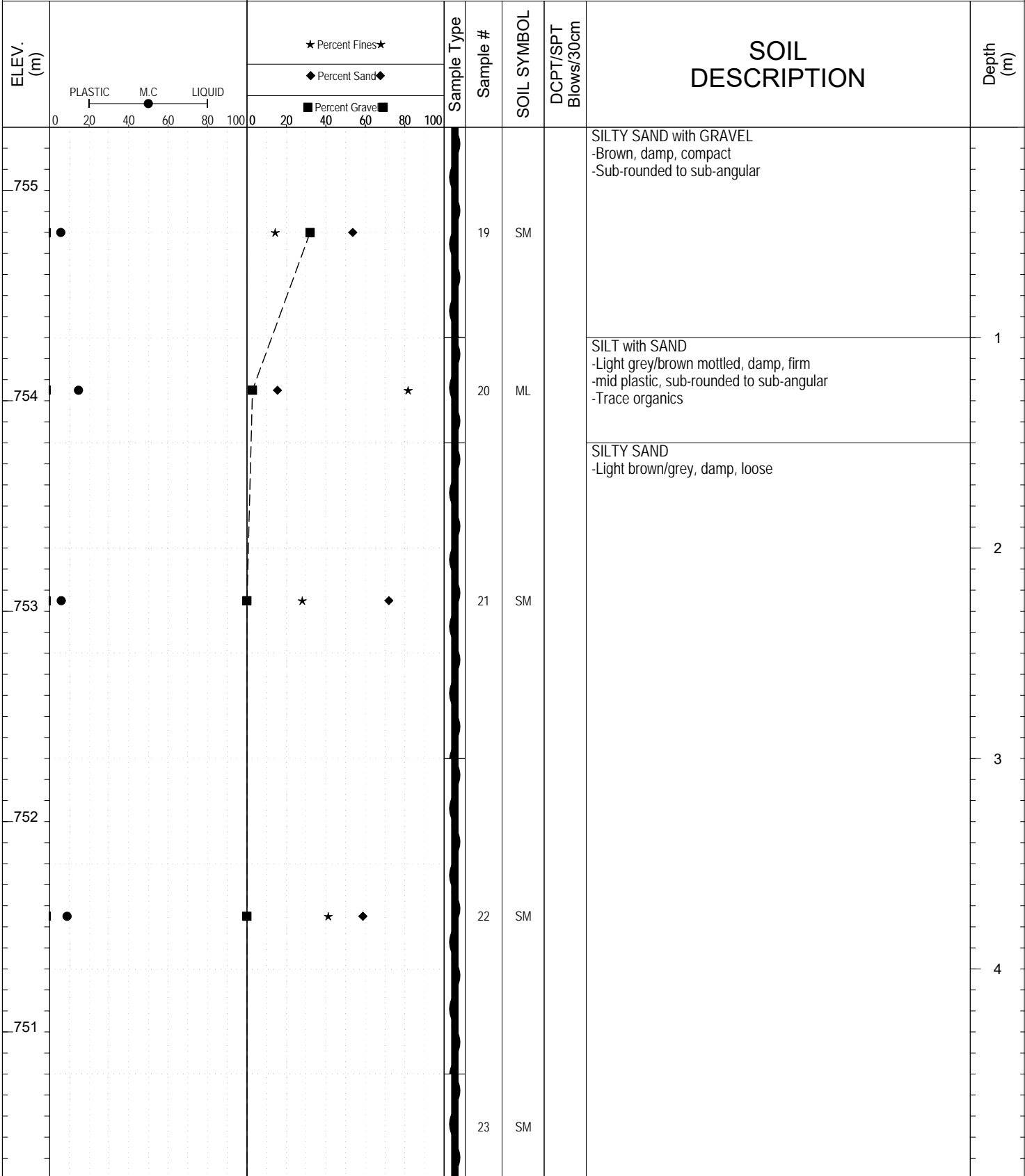
LOGGED BY: Dave Lorenzi	Termination Depth: 5.7m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5477

2015 Corridor Drilling, km 1436.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734251.5m E493157.8m ELEVATION: 755.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

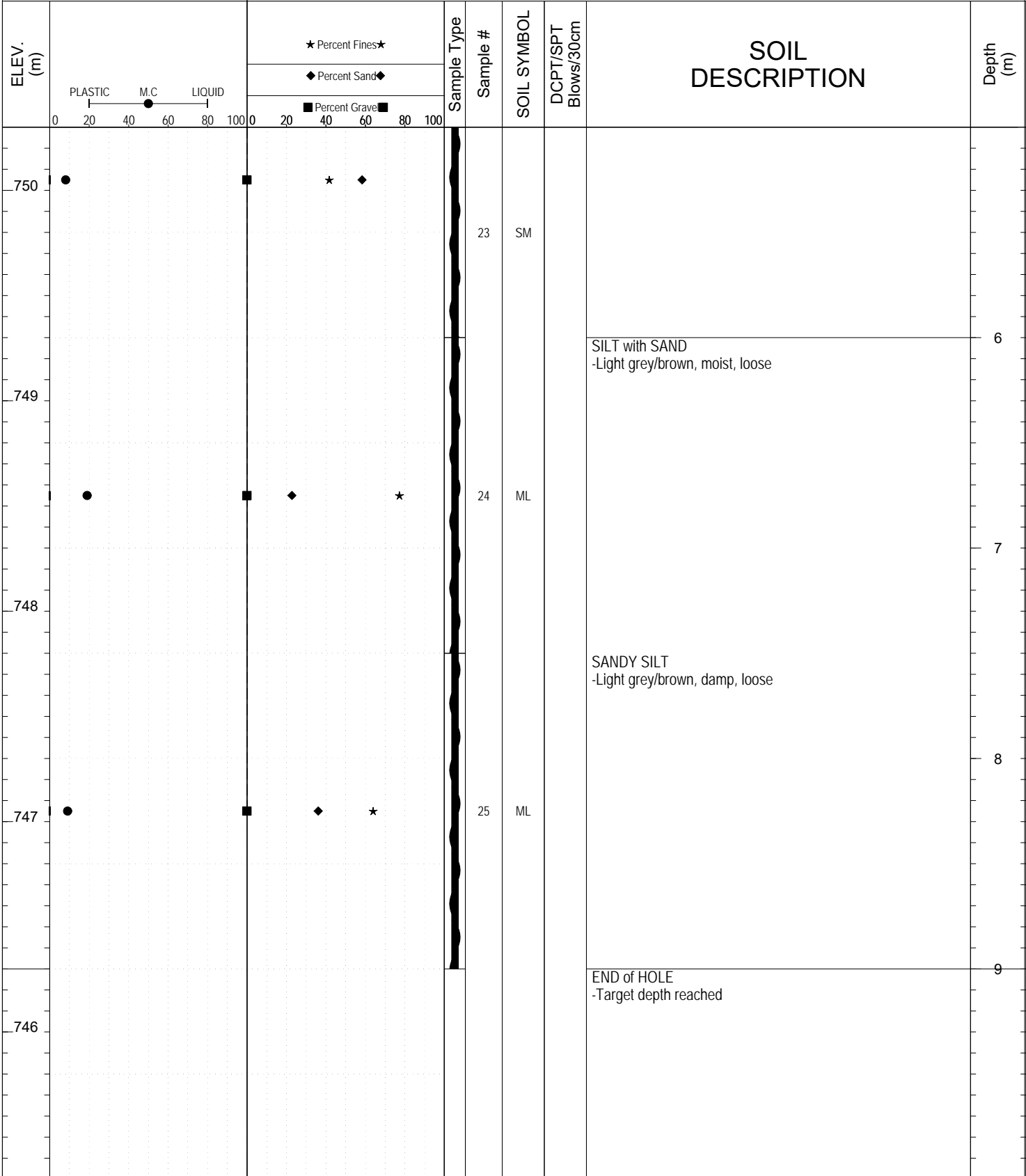
LOGGED BY: Dave Lorenzi	Termination Depth: 9m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5477

2015 Corridor Drilling, km 1436.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734251.5m E493157.8m ELEVATION: 755.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 9m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5478A

2015 Corridor Drilling, km 1435.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734204.7m E493404.8m ELEVATION: 758.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
758				[AUGER]	26	ML		SILT with SAND -Tan/brown, damp, loose -Trace organics, trace wood chips	1
757					27	SM		SILTY SAND with GRAVEL -Light grey, damp, compact -Sub-angular	2
756								END of HOLE -Refusal	3
755									4
754									



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LOGGED BY: Dave Lorenzi	Termination Depth: 2.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5478B

2015 Corridor Drilling, km 1435.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734227m E493318.8m ELEVATION: 756.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
756	20	50	80	[Wavy line]	28A	ML		SANDY SILT -Brownish, damp, compact -Sub-angular to sub-rounded	1
755	20	40	60					SAND, some gravel, trace silt -Brown, damp, loose	
754								END of HOLE -Refusal	2
753									3
752									4



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Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 1.7m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5479

2015 Corridor Drilling, km 1435.7 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6734167.2m E493524.8m ELEVATION: 757.7m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100	0 20 40 60 80 100	0 20 40 60 80 100						
757					28B			SAND, trace GRAVEL and ORGANICS brown, loose, damp, fine sand, SA-SR gravel no drilling, only shovelled surface	1
756								EOH (refusal due to rock outcrop)	2
755									3
754									4
753									



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 0.4m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

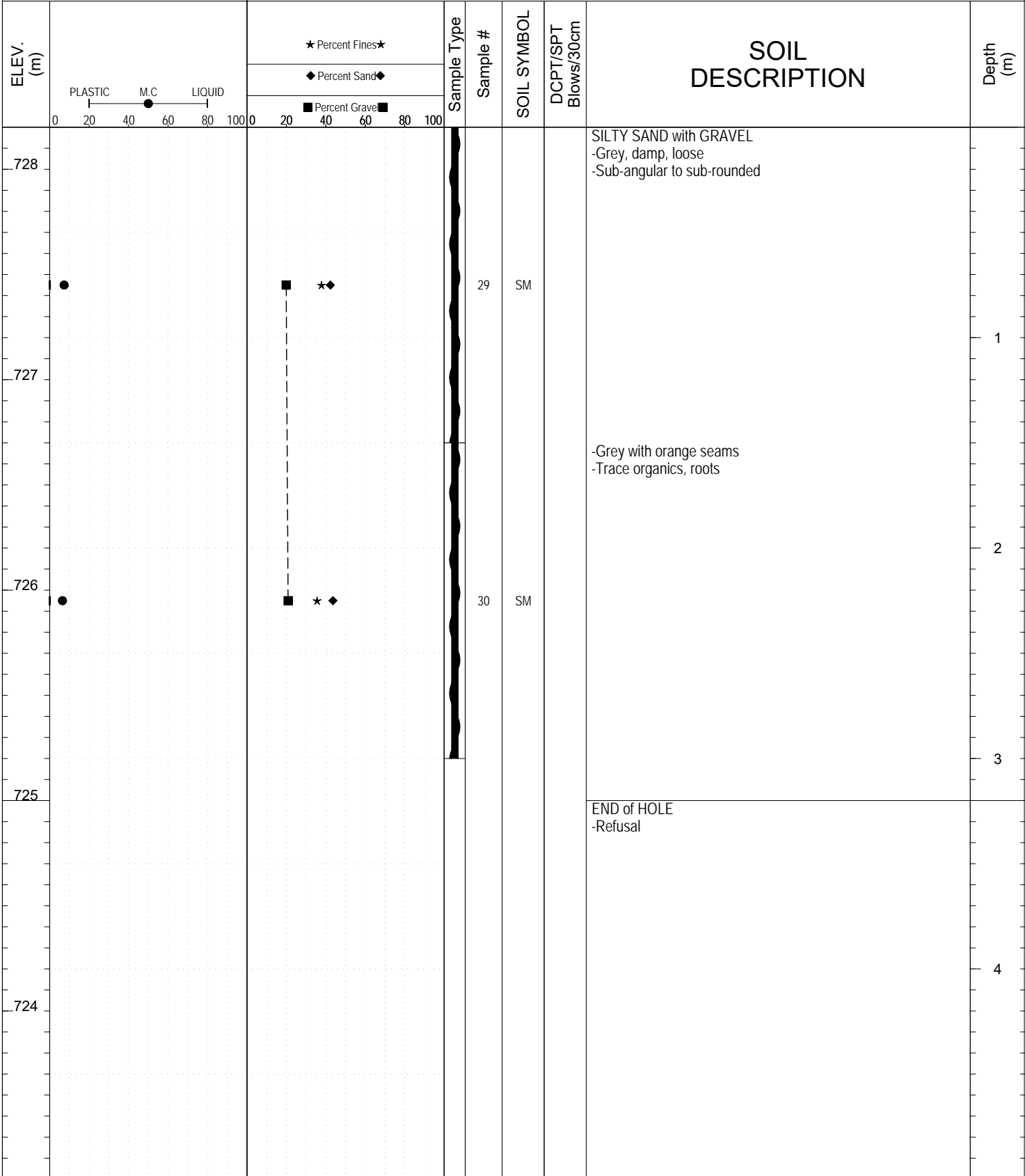
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SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5480

2015 Corridor Drilling, km 1433.7 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6732340m E495273.5m ELEVATION: 728.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 3.2m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5480-RA				
		2015 Corridor Drilling, km 1433.5 LHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6731923.7m E495499.4m		ELEVATION: 731.8m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE	
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
731	●	■ ◆ ★		31	ML		SAND, silty, some gravel -Tan and grey, dry, loose -Trace organics -Sub-angular to sub-rounded	1
730							END of HOLE -Flight drilled on angle, moved hole	2
729								3
728								4
727								



SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5480-RB

2015 Corridor Drilling, km 1433.3 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6729579.6m E495975.3m ELEVATION: 750.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
750.6					32	ML		GRAVELLY SILT with SAND -Tan/brown/orange, dry, soft -Sub-angular to sub-rounded -Trace organics, roots	
750.0					33	SM		SILTY SAND with GRAVEL -Light grey, dry, loose -Sub-angular to sub-rounded	1
749.5					34	SM		SILTY SAND -compact -Sub-angular	2
748.5					35	SM		-Light grey -Sub-angular to sub-rounded	3
747.5									4
746.5								END OF HOLE -Target depth reached	



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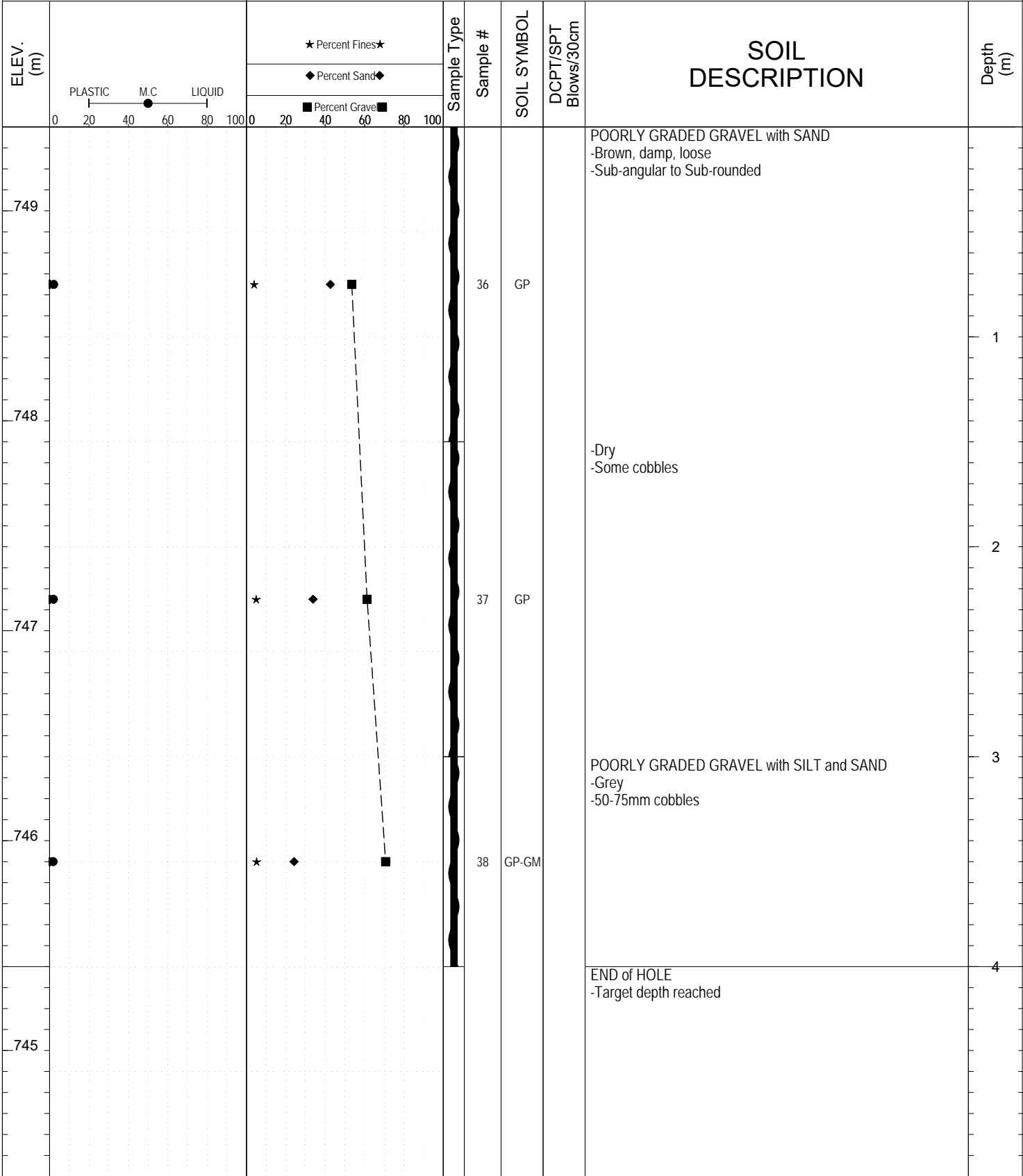
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5483

2015 Corridor Drilling, km 1432.4 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6729534.8m E496065.5m ELEVATION: 749.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5484				
		2015 Corridor Drilling, km 1432.2 LHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6729290.2m E496165.9m		ELEVATION: 756.6m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
756				39	ML		SANDY SILT with GRAVEL -Brown/dark brown, damp, soft -Sub-angular to sub-rounded -Some organics	
755				40	ML		SILT -Light tan/orange, damp, soft	1
754				41	GM		SILTY GRAVEL with SAND -Light brown, damp, loose -Sub-angular to sub-rounded	2
753				42	GM			3
752							END of HOLE -Target depth reached	4

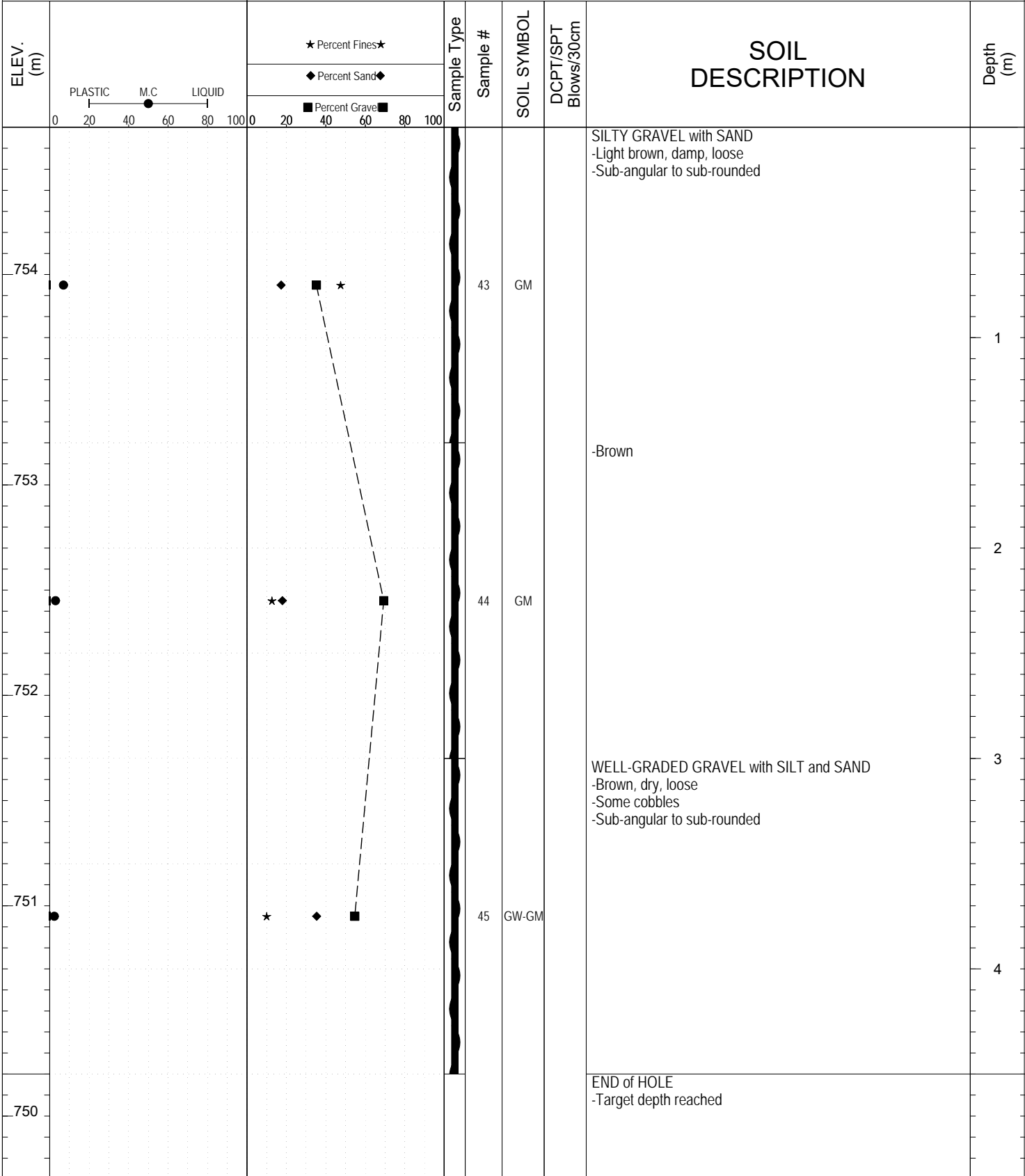


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5485

2015 Corridor Drilling, km 1432.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6729108.3m E496248.5m ELEVATION: 754.7m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi Termination Depth: 4.5m
 COMPILED BY: M. Jubinville Complete: 9/26/2015
 REVIEWED BY: R. Stilwell Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5486				
		2015 Corridor Drilling, km 1432.0 LHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6728925.2m E496333.1m		ELEVATION: 754.9m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)		★ Percent Fines★	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
		◆ Percent Sand◆						
754		◆★■		46	GM		SILTY GRAVEL with SAND -Brown, damp, loose -Sub-angular to sub-rounded	1
753		★◆■		47	GM		-Some cobbles	2
752		★◆■		48	GW-GM		WELL-GRADED GRAVEL with SILT and SAND -Brown, damp -Sub-angular to sub-rounded -Some cobbles	3
751		★◆■					END of HOLE -Target depth reached	4
750								

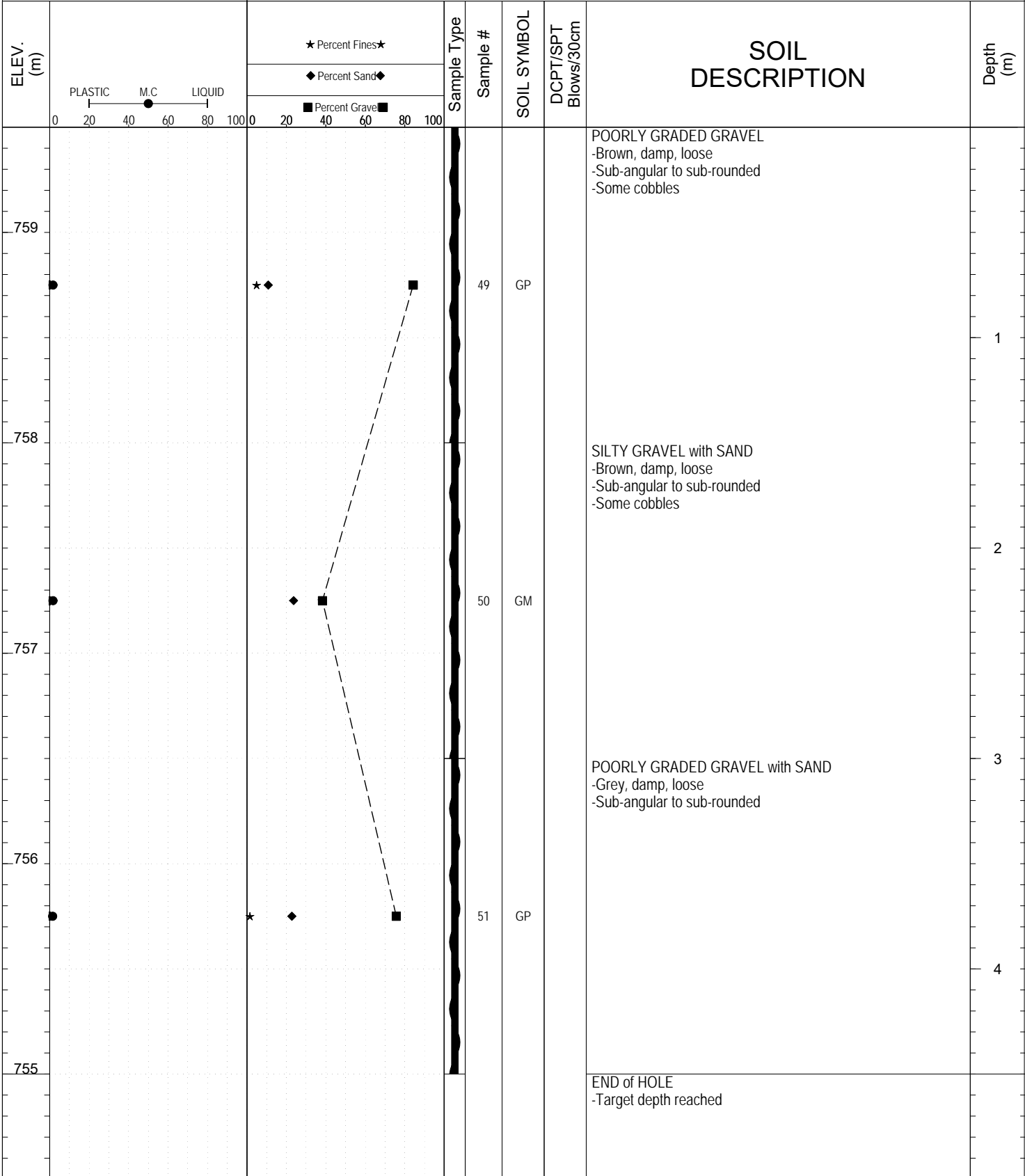


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5487

2015 Corridor Drilling, km 1431.8 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6727510.8m E496763.8m ELEVATION: 759.5m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

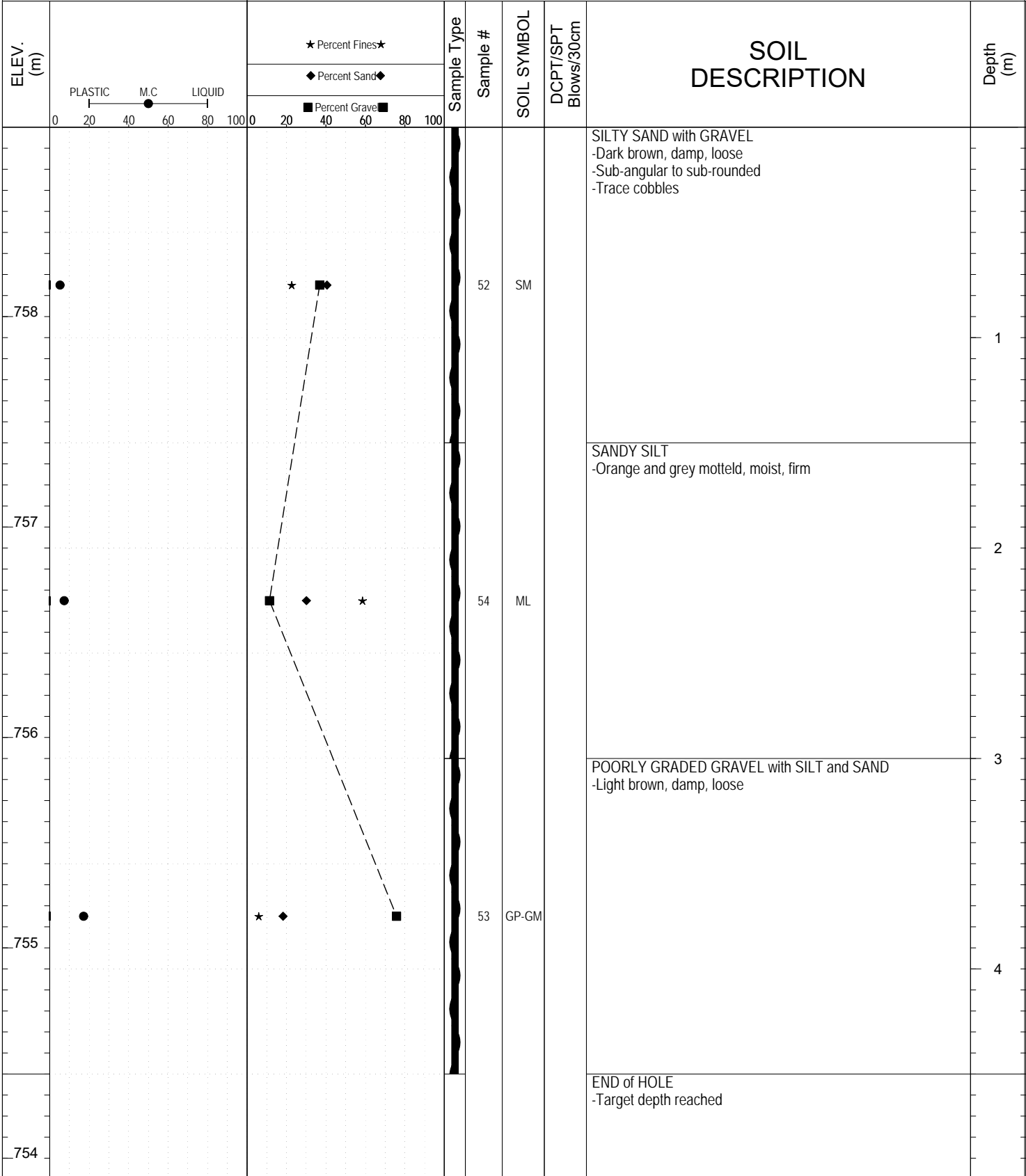
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5488

2015 Corridor Drilling, km 1430.8 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6726989.6m E496926.5m ELEVATION: 758.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

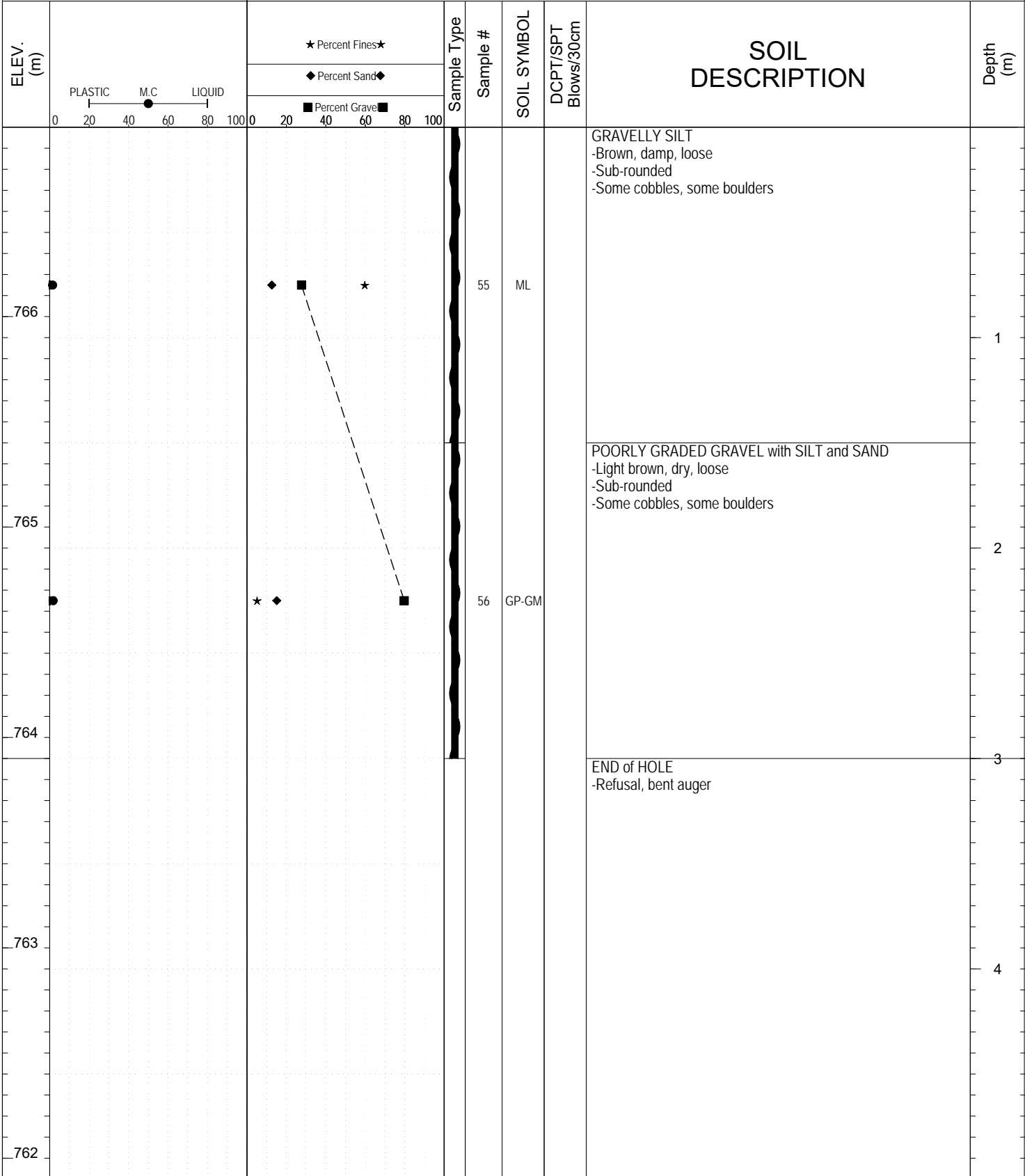
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5489

2015 Corridor Drilling, km 1431.2 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6726183.4m E497316.6m ELEVATION: 766.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 3m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: _____

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5490				
MARL M4CT		2015 Corridor Drilling, km 1431.4 RHS		PROJECT NO: 552 202101 0908 0661-3				
SAMPLE TYPE		Coordinates: Z8V N6727320m E496817.8m		ELEVATION: 759.2m				
<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input checked="" type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE								
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 30%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> <p>0 20 40 60 80 100</p> </div> </div>			Sample Type	Sample #	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	759							
758							2	
757					58	GM	WELL-GRADED GRAVEL with SILT and SAND -Brown, damp, loose -Sub-angular to sub-rounded	3
756							4	
755					59	GW-GM	END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5491

2015 Corridor Drilling, km 1431.6 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6727320m E496817.8m ELEVATION: 759.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
759					60	GM		SILTY GRAVEL with SAND -Brown, damp, loose -Sub-angular to sub-rounded -Trace organics	1
758								GRAVELLY SILT with SAND -Light brown, damp, loose -Sub-angular to sub-rounded	2
757					61	ML		SILTY GRAVEL with SAND -Brown, damp, loose -Sub-angular to sub-rounded -Trace cobbles	3
756					62	GM		END of HOLE -Target depth reached	4



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5492				
		2015 Corridor Drilling, km 1432.4 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6729461.9m E496061.6m		ELEVATION: 755.5m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
755				63	GW		WELL-GRADED GRAVEL with SAND -Brown, damp, loose -Sub-angular to sub-rounded -Trace cobbles	1
754				64	SW-SM		WELL-GRADED SAND with SILT and GRAVEL -Greyish brown, damp, loose -Sub-angular to sub-rounded	2
753							-Brown/grey	3
752				65	SW-SM			4
751							END of HOLE -Target depth reached	

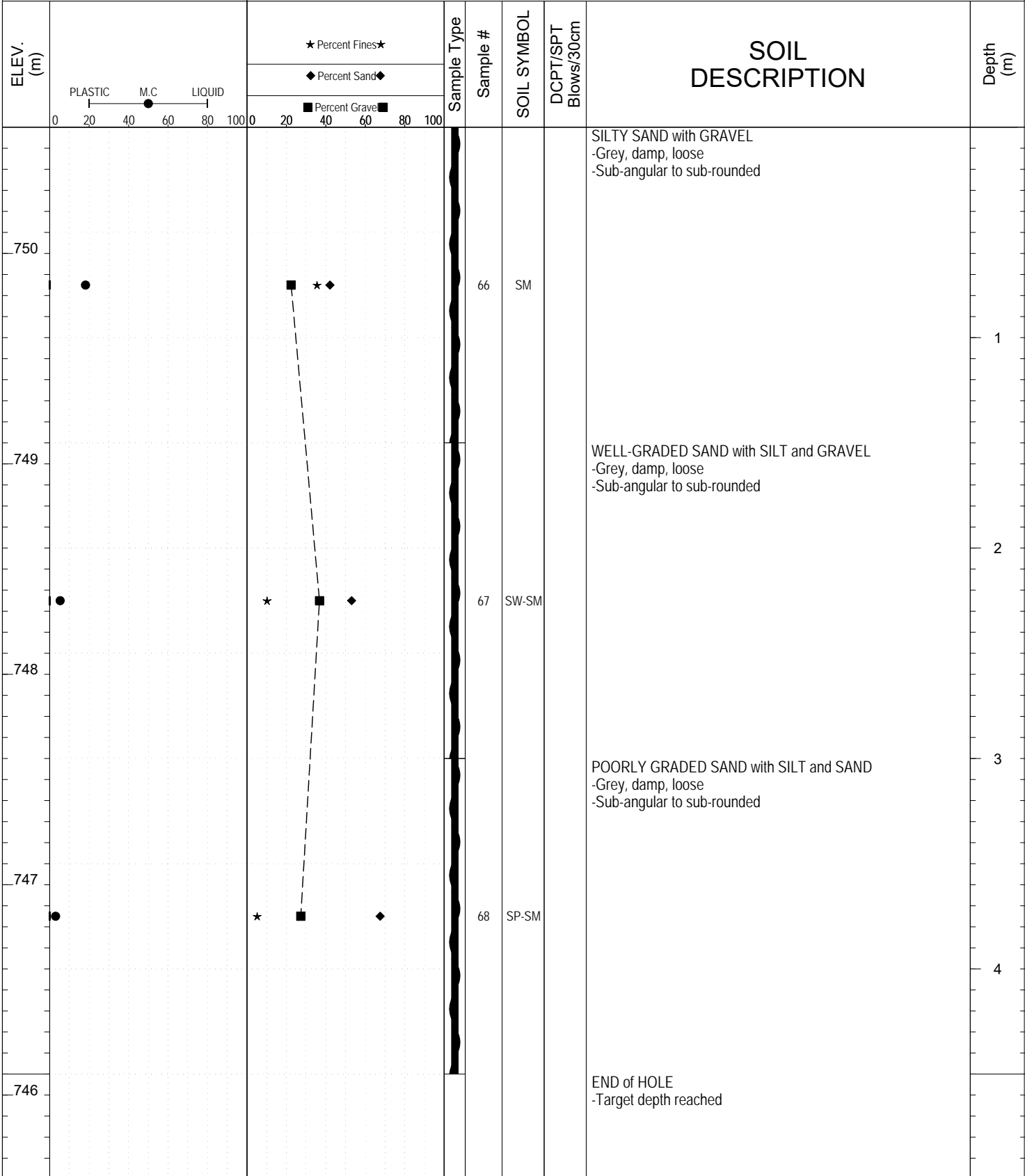


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5493

2015 Corridor Drilling, km 1433.3 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6729579.6m E495975.3m ELEVATION: 750.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

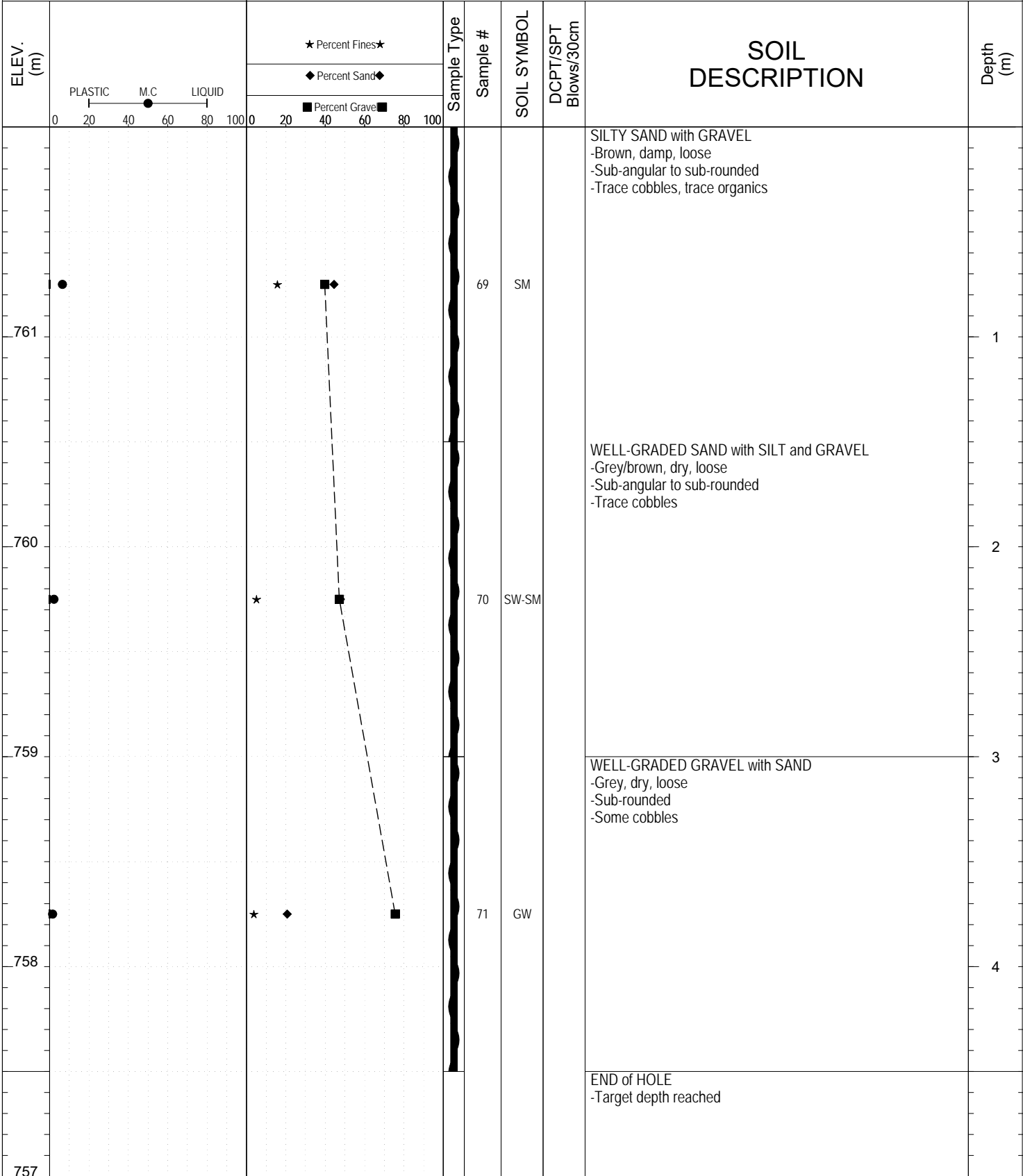
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: _____ Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5494

2015 Corridor Drilling, km 1428.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6726650.1m E497073.4m ELEVATION: 762m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

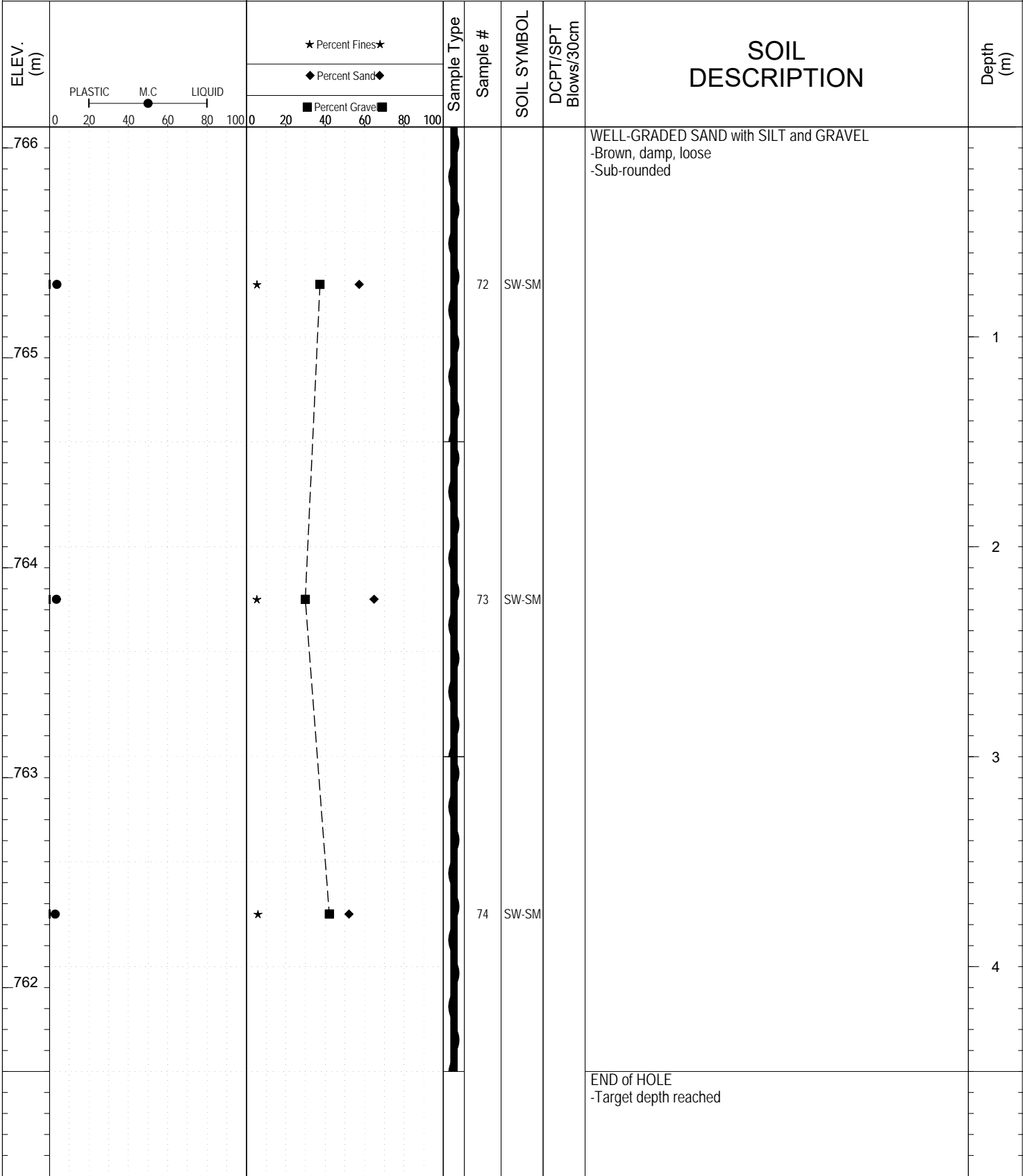
Termination Depth: 4.5m
Complete: 9/26/2015
Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5495

2015 Corridor Drilling, km 1427.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6725979.7m E497443m ELEVATION: 766.1m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5496

2015 Corridor Drilling, km 1427.6 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6725578.4m E497608.7m ELEVATION: 770m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
769	0	45	85		75	GM		SILTY GRAVEL with SAND -Brown, damp, loose -Sub-angular to sub-rounded -Trace cobbles	1
768								END of HOLE -Refusal	2
767									3
766									4
765									



Highways and Public Works
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LOGGED BY: Dave Lorenzi	Termination Depth: 1.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5497				
MARL M4CT		2015 Corridor Drilling, km 1427.6 LHS		PROJECT NO: 552 202101 0908 0661-3				
SAMPLE TYPE		Coordinates: Z8V N6725745.9m E497540m		ELEVATION: 768.1m				
<input checked="" type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE								
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
768							SILTY GRAVEL with SAND -Brown, damp, loose -Sub-angular to sub-rounded -Trace cobbles	1
767								
766							POORLY GRADED GRAVEL with SAND -Grey, dry, loose -Sub-rounded -Trace cobbles	2
765							-Some cobbles	3
764								4
							END of HOLE -Target depth reached	

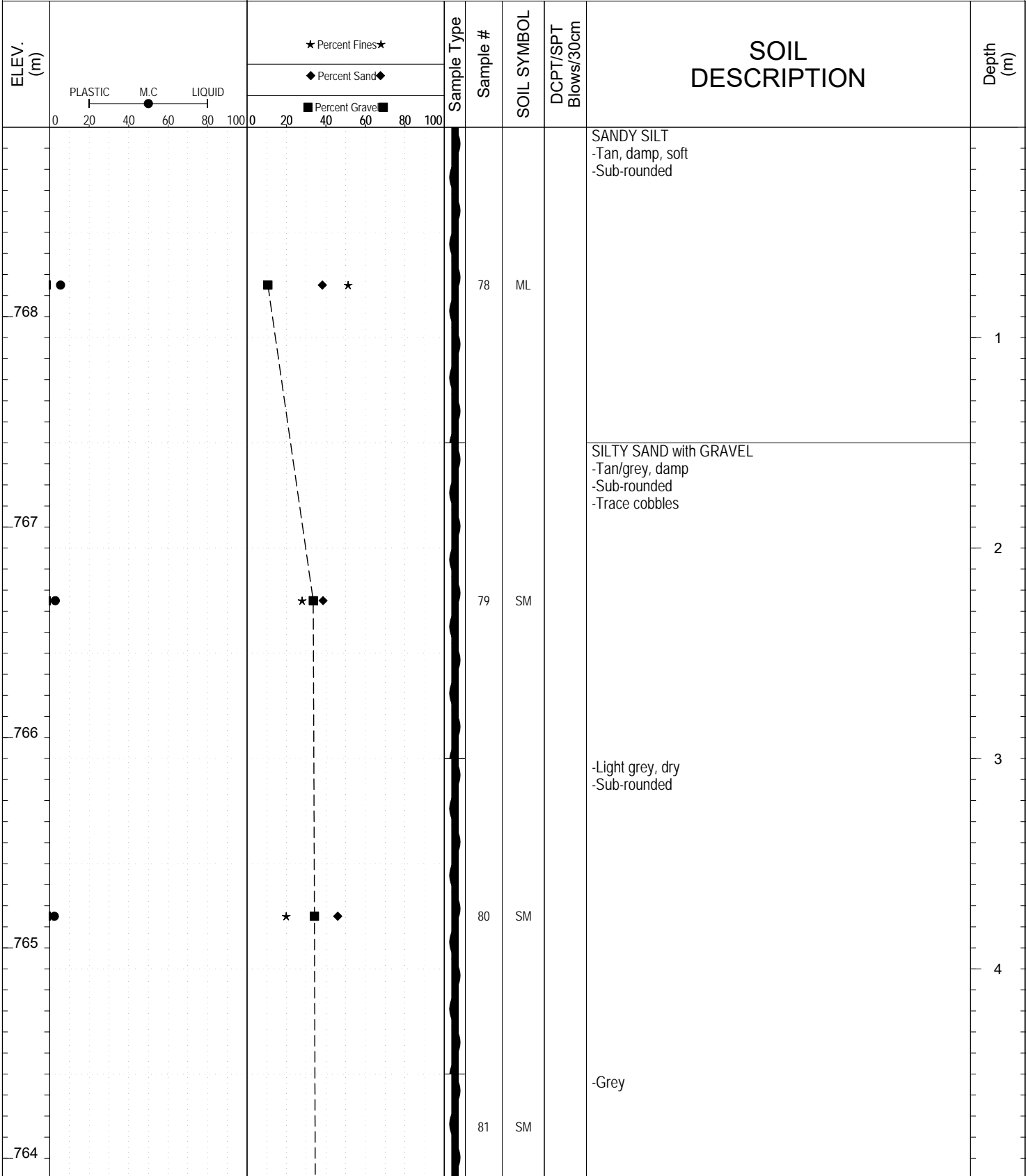


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5498

2015 Corridor Drilling, km 1427.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724998.8m E497826.5m ELEVATION: 768.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 6m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5498

2015 Corridor Drilling, km 1427.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724998.8m E497826.5m ELEVATION: 768.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC 0 20 40 60 80 100 M.C. LIQUID	0 20 40 60 80 100	0 20 40 60 80 100						
763				AUGER	81	SM		-Grey	
762								END of HOLE -Target depth reached	6
761									7
760									8
759									9



Highways and Public Works
Transportation Engineering Branch

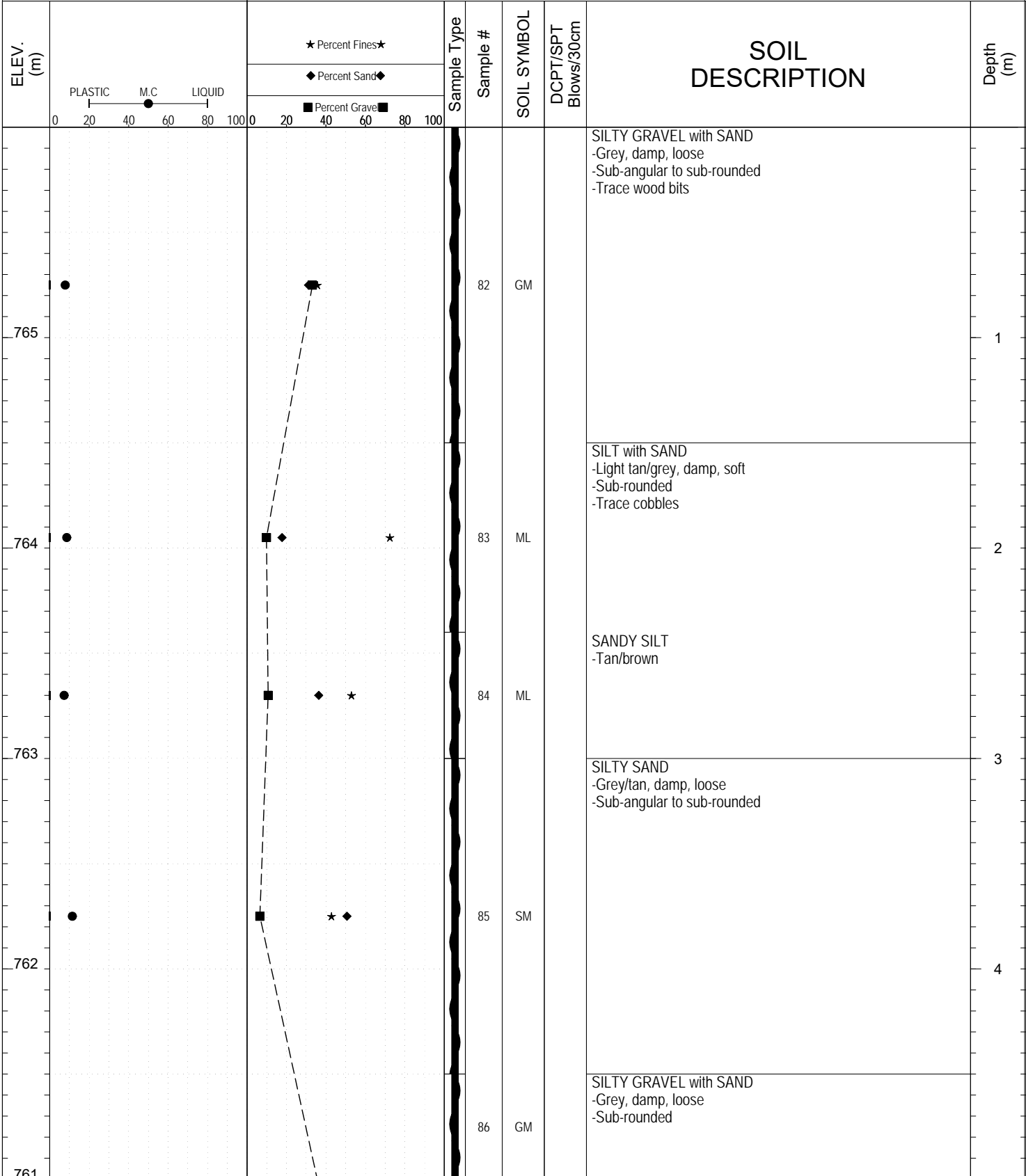
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5499

2015 Corridor Drilling, km 1427.4 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724641m E497912.1m ELEVATION: 766m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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Transportation Engineering Branch

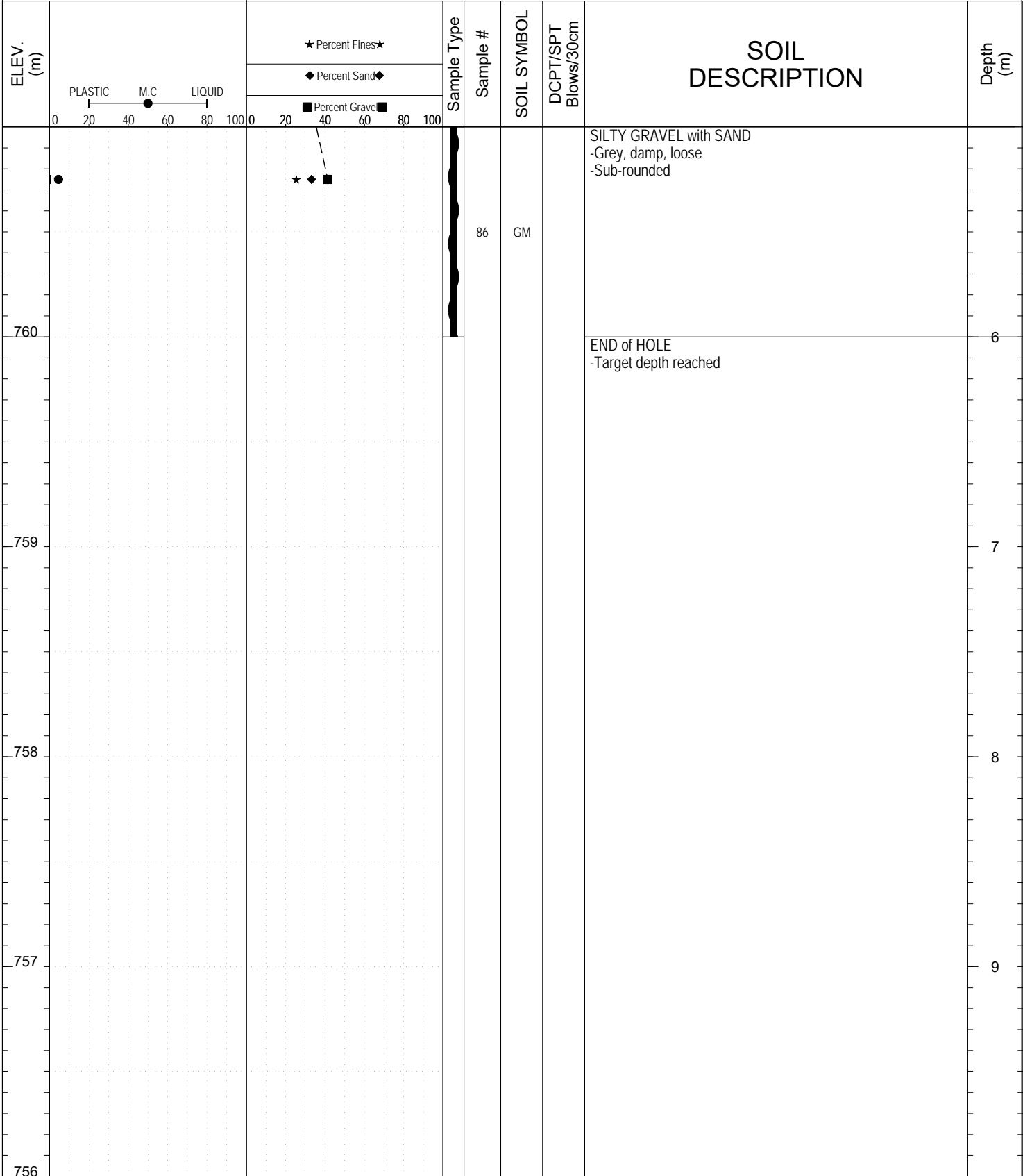
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5499

2015 Corridor Drilling, km 1427.4 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724641m E497912.1m ELEVATION: 766m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

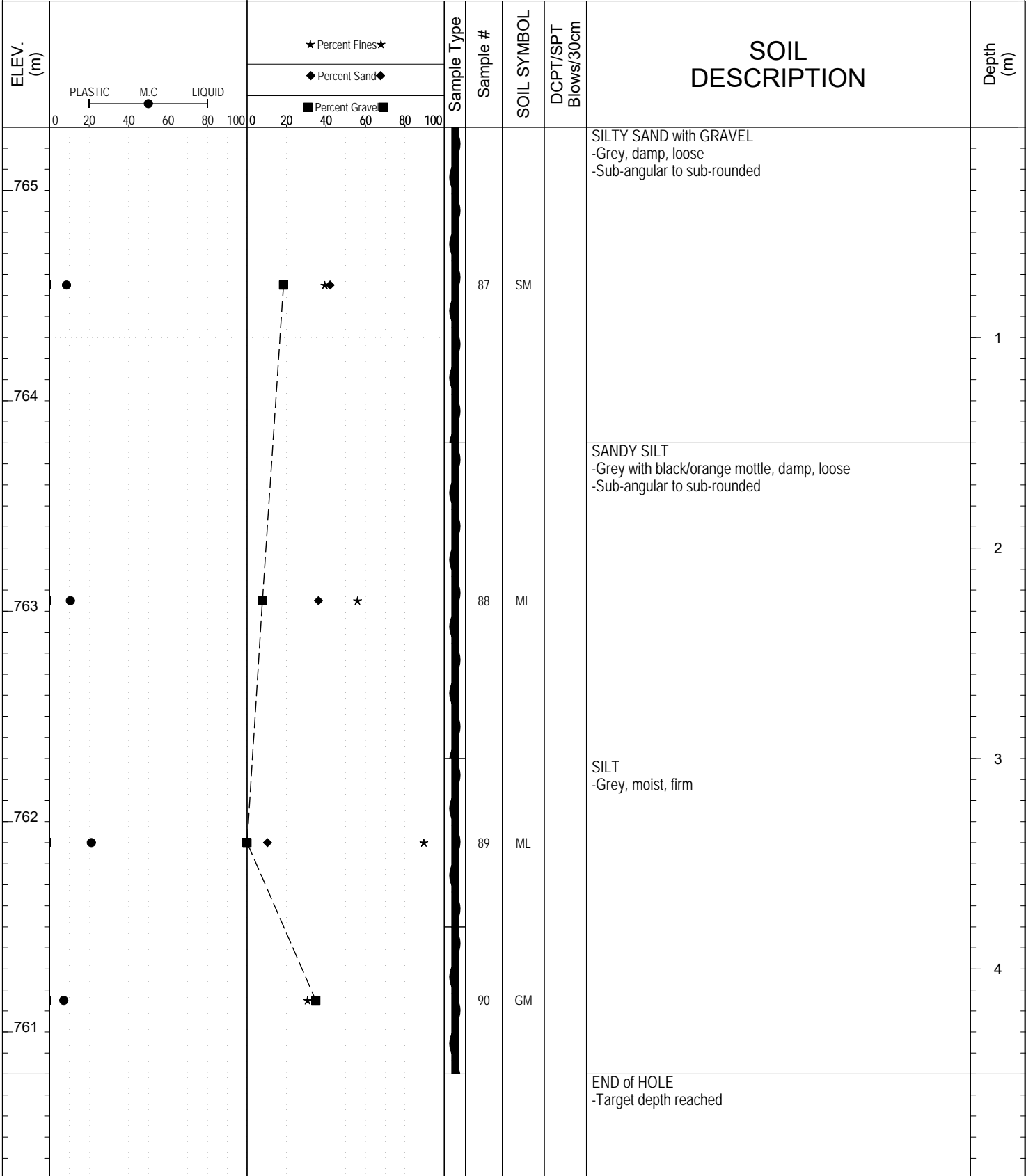
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5500

2015 Corridor Drilling, km 1427.3 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724494.2m E497961.4m ELEVATION: 765.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

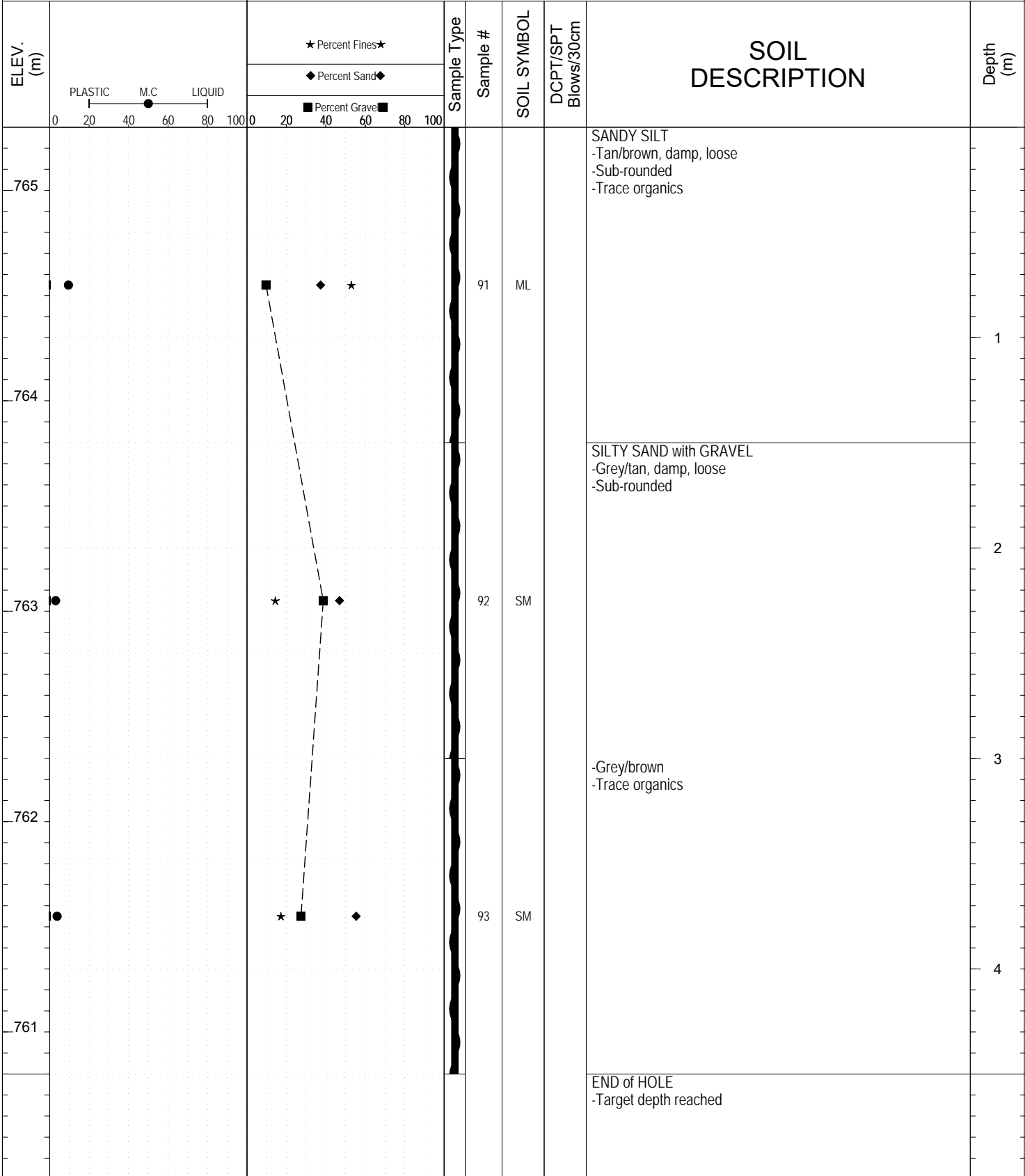
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5501

2015 Corridor Drilling, km 1426.45 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724494.2m E497961.4m ELEVATION: 765.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

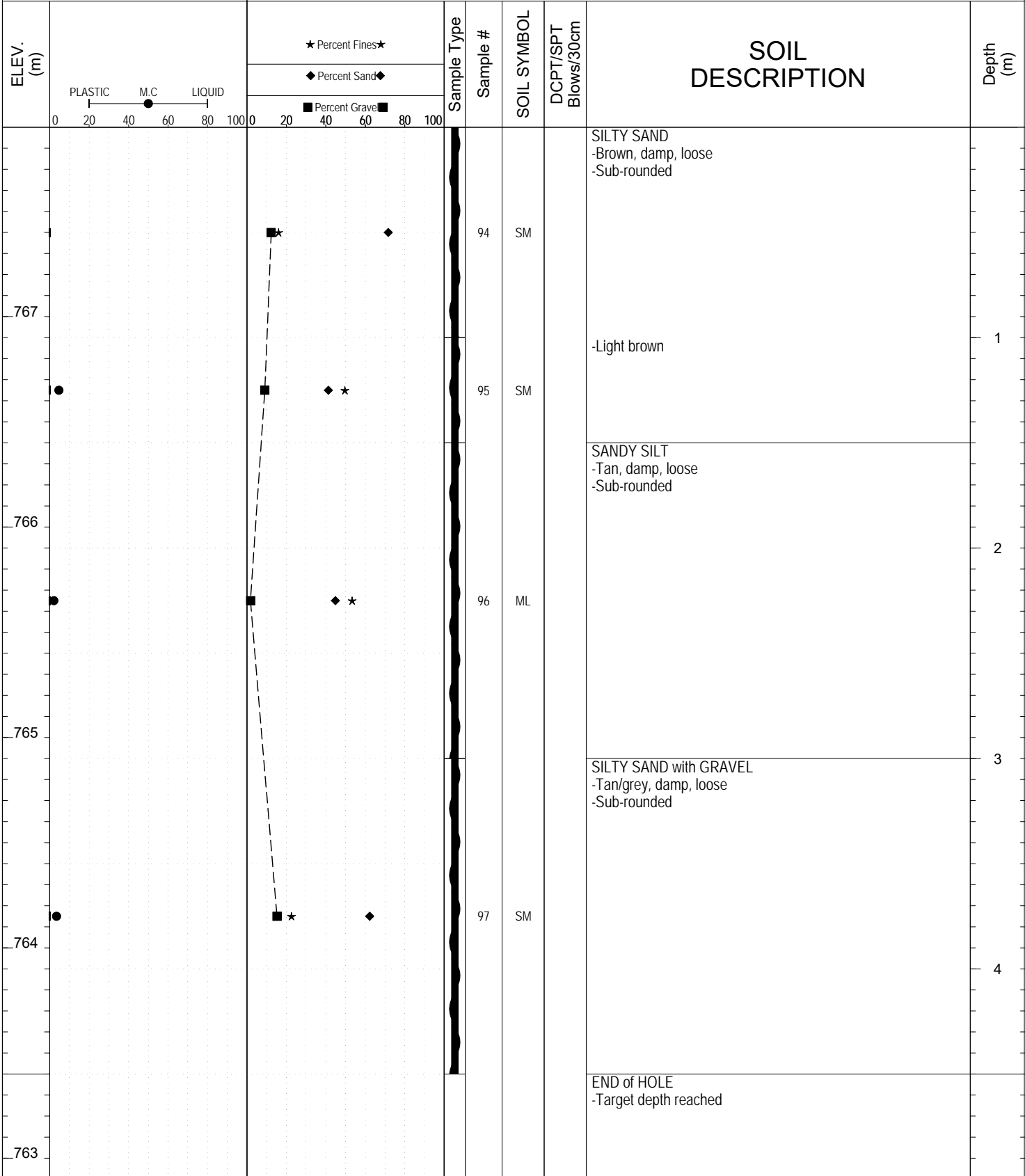
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5502

2015 Corridor Drilling, km 1426.3 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724241.1m E498067.5m ELEVATION: 767.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

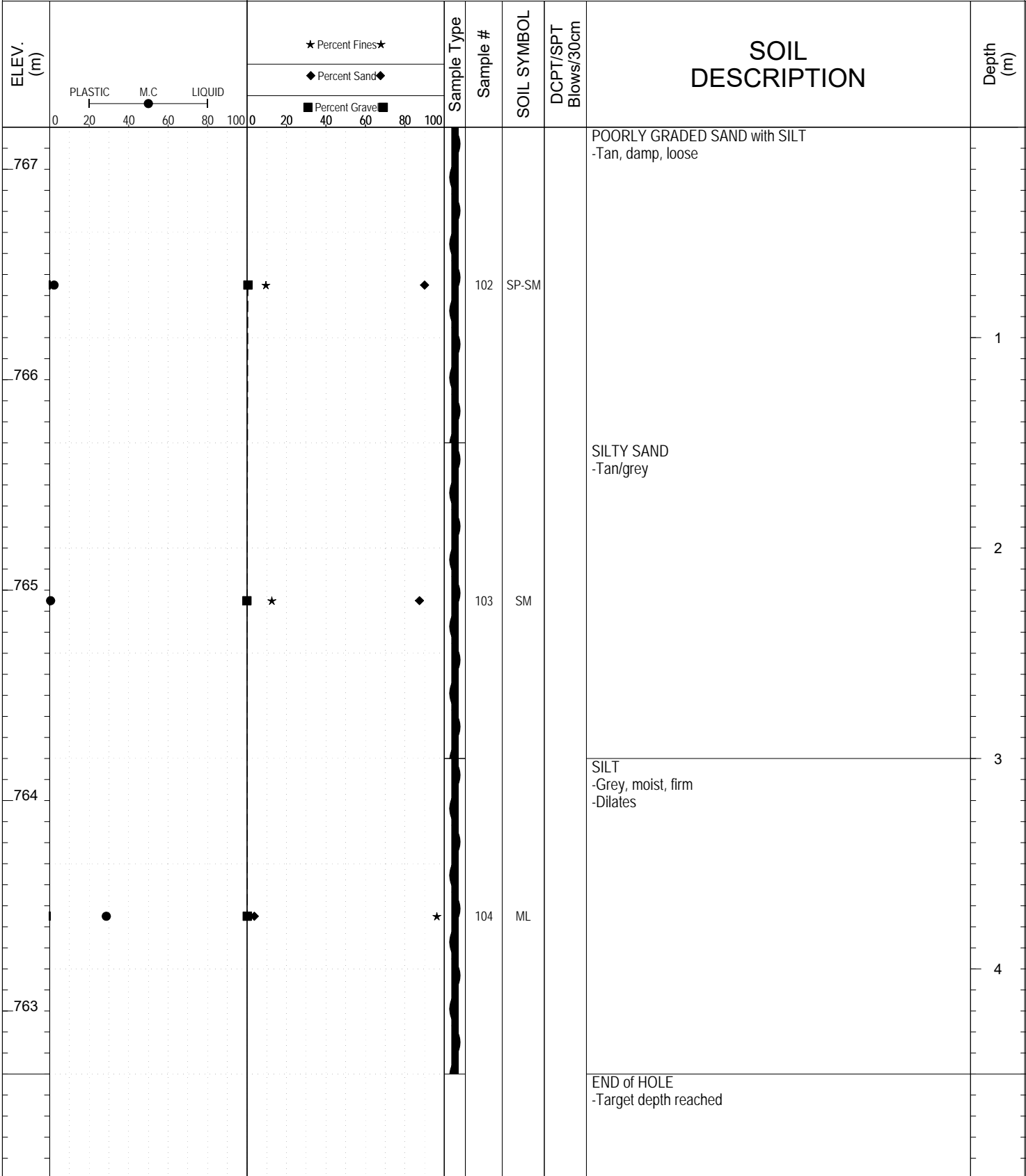
SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5503					
		2015 Corridor Drilling, km 1426.2 LHS		PROJECT NO: 552 202101 0908 0661-3					
MARL M4CT		Coordinates: Z8V N6724200.6m E498159.6m		ELEVATION: 767.2m					
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE			
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)	
	PLASTIC M.C LIQUID 0 20 40 60 80 100								
767							SILT -Tan, dry, soft		
				98	ML			1	
766							-Damp		
				99	ML			2	
765							-Tan/grey, firm		
				100	ML			3	
764							SILT with SAND -Greyish, moist, firm		
				101	ML			4	
763							END of HOLE -Target depth reached		
			Highways and Public Works Transportation Engineering Branch			LOGGED BY: Dave Lorenzi COMPILED BY: R.Kennedy-Kuiper REVIEWED BY: R.Stilwell		Termination Depth: 4.5m Complete: 9/26/2015 Pit #:	

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5504

2015 Corridor Drilling, km 1424.65 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724200.6m E498159.6m ELEVATION: 767.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5505				
		2015 Corridor Drilling, km 1424.5 LHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6724114.2m E498200.6m		ELEVATION: 767.2m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
767							POORLY GRADED SAND with SILT -Tan, damp, loose	
				105	SP-SM			1
766							SILTY SAND -Tan/grey, damp, loose	
				106	SM			2
765								
				107	SM			3
764								
				108	ML		SILT -Grey, moist, firm	4
763							END of HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

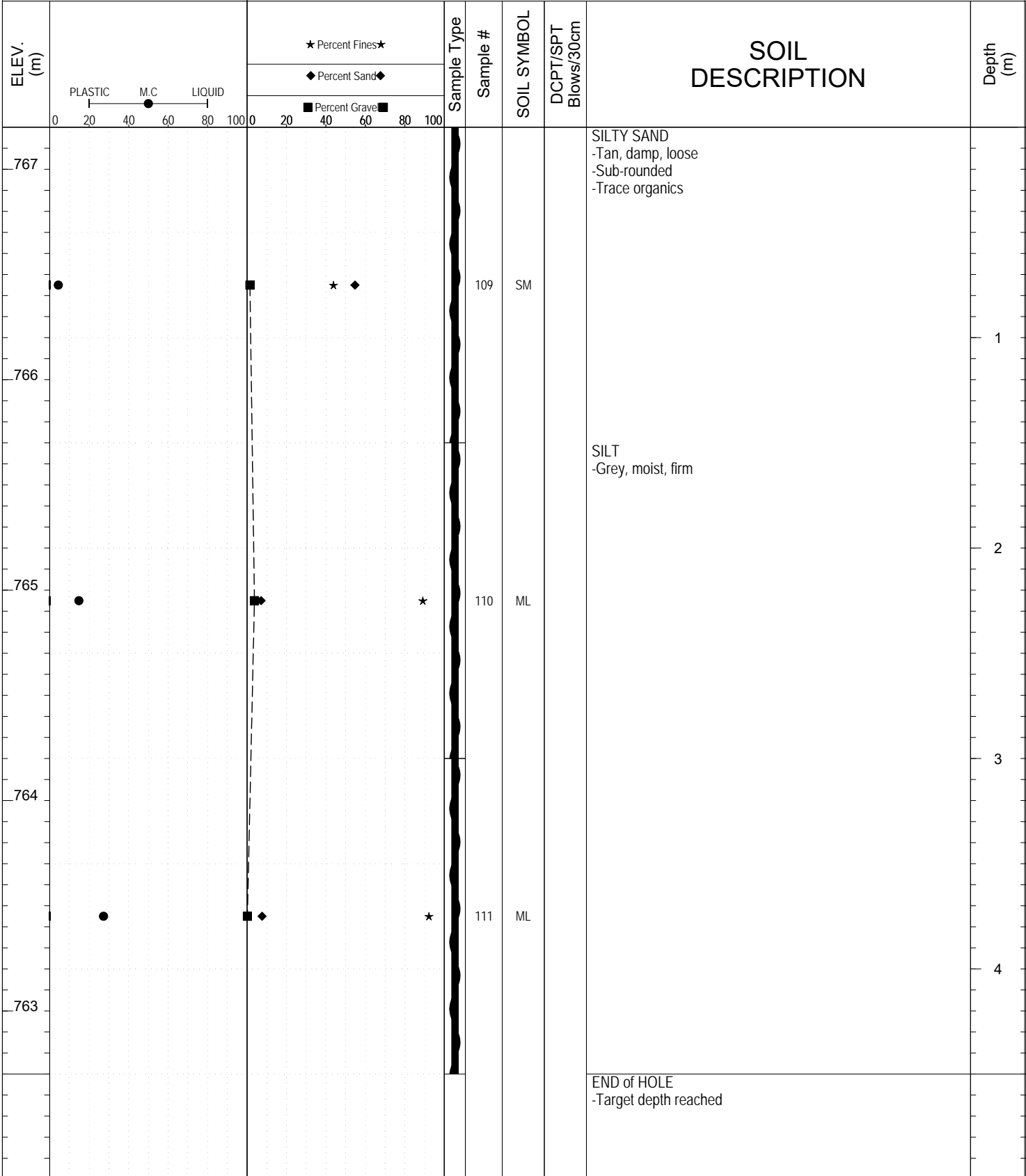
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Complete: 9/26/2015
Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5506

2015 Corridor Drilling, km 1424.4 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6724106.6m E498301.3m ELEVATION: 767.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

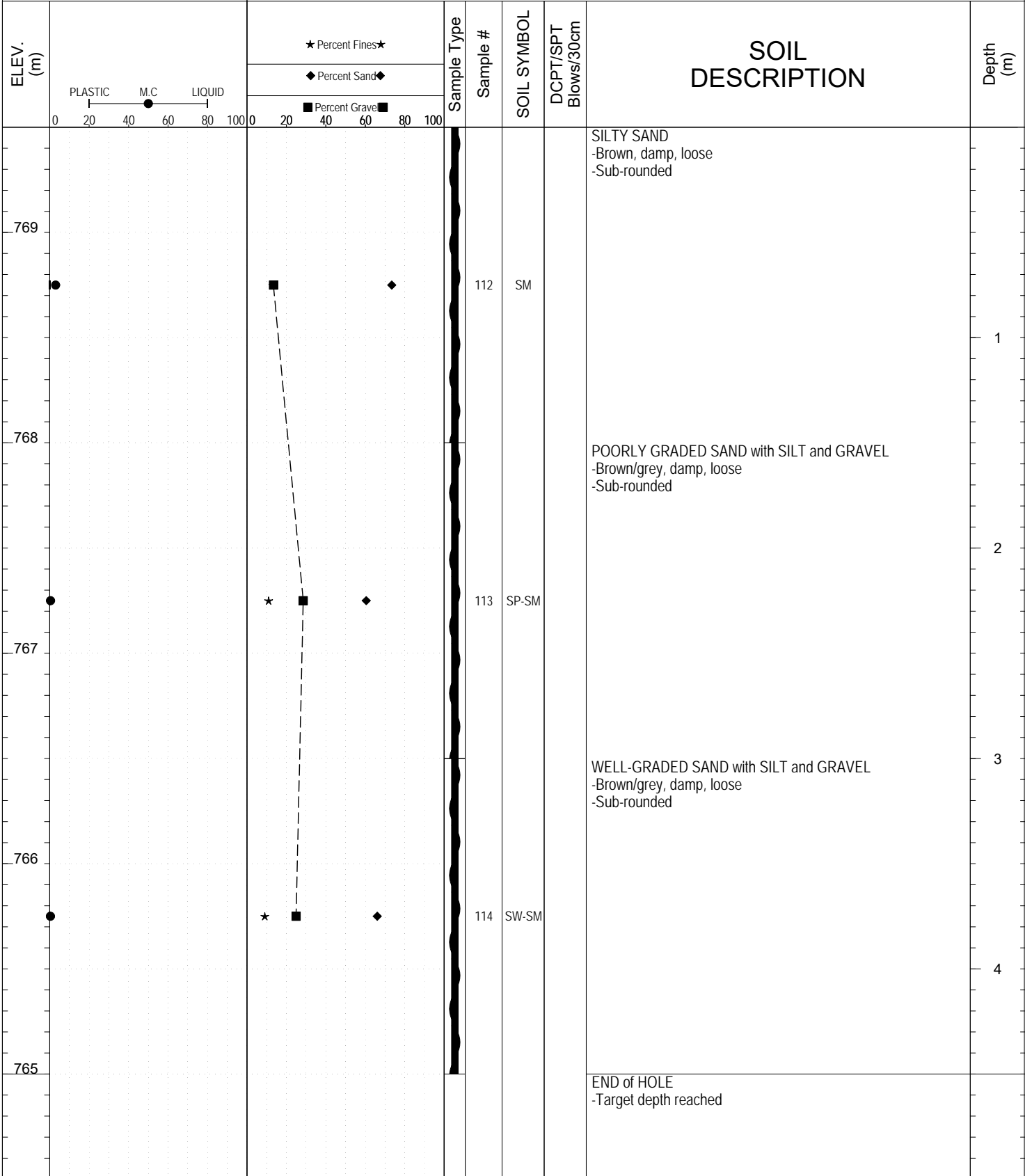
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5507

2015 Corridor Drilling, km 1424.2 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6723914.2m E498595.7m ELEVATION: 769.5m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5508				
MARL M4CT		2015 Corridor Drilling, km 1423.7 LHS		PROJECT NO: 552 202101 0908 0661-3				
SAMPLE TYPE		Coordinates: Z8V N6723868.4m E498679.2m		ELEVATION: 769.1m				
<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE								
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> <div style="width: 30%;"> <p>PLASTIC</p> <p>M.C</p> <p>LIQUID</p> </div> </div>			Sample Type	Sample #	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100	0 20 40 60 80 100			DCPT/SPT Blows/30cm			
769							SANDY SILT -Grey, damp, loose -Sub-rounded	
768					115	ML		1
767					116	ML	SILT -Grey, moist, soft	2
766								3
765					117	ML		4
							END of HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

Termination Depth: 4.5m
Complete: 9/26/2015
Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5509

2015 Corridor Drilling, km 1421.7 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6723868.4m E498679.2m ELEVATION: 769.1m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C.	LIQUID						
769								SANDY SILT -Brown, damp, loose -Sub-angular to sub-rounded	
768					118	ML			1
767					119	SM		SILTY SAND with GRAVEL -Tan/brown, damp, loose -Sub-angular to sub-rounded	2
766								-Compact	3
765					120	SM			4
								END OF HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

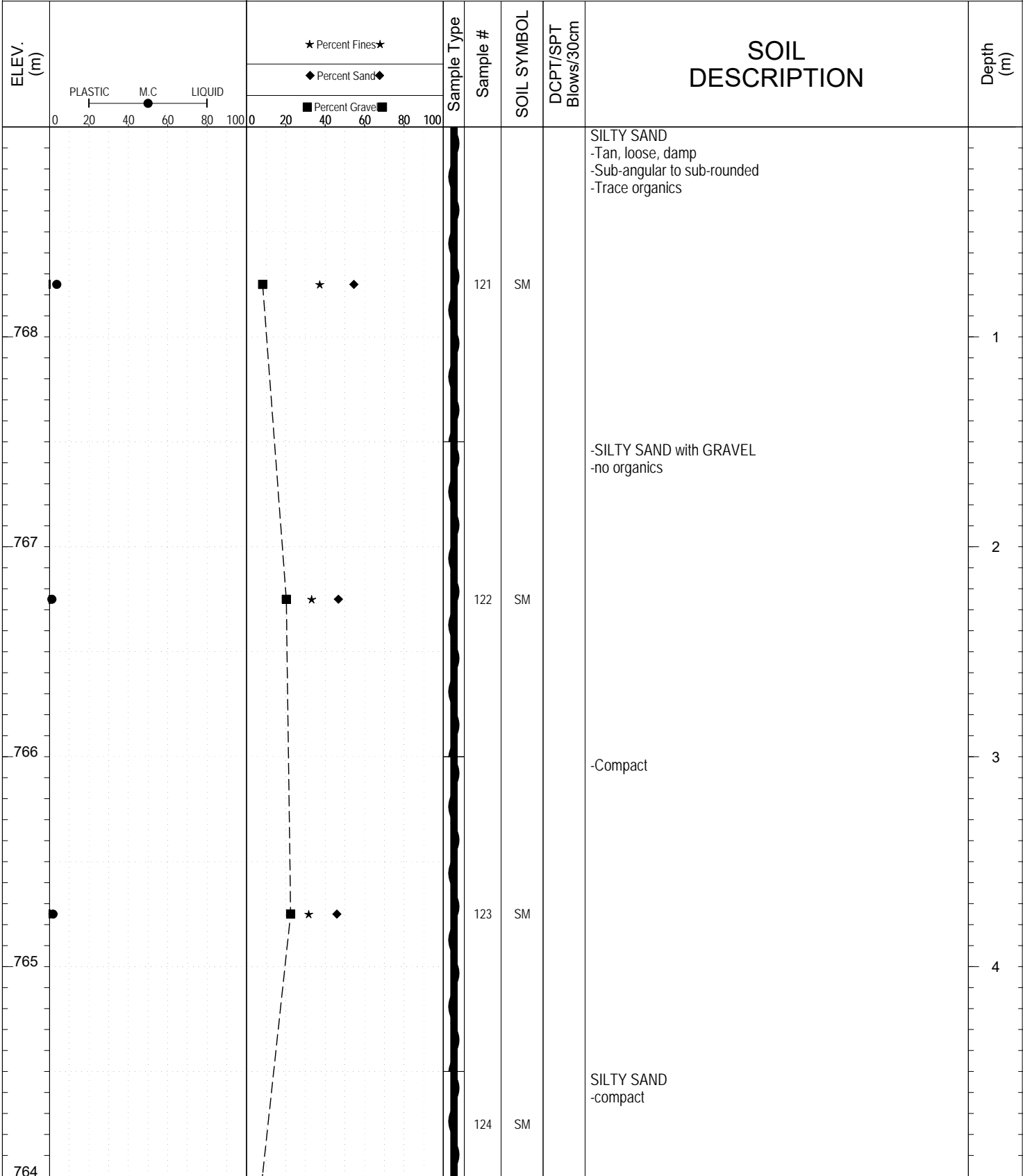
Termination Depth: 4.5m
Complete: 9/26/2015
Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5510

2015 Corridor Drilling, km 1421.6 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6723725.3m E498889.5m ELEVATION: 769m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

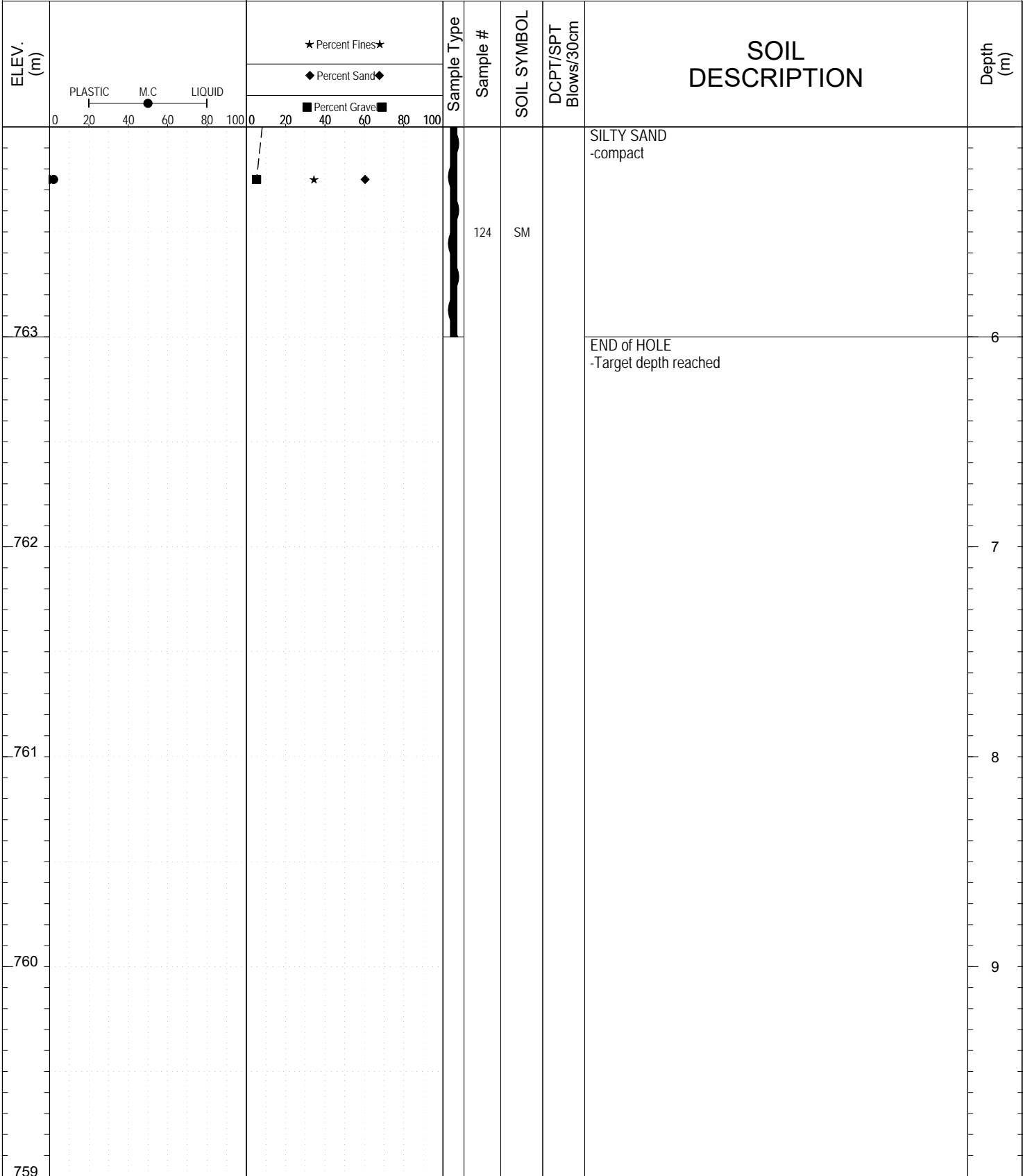
LOGGED BY: Dave Lorenzi Termination Depth: 6m
 COMPILED BY: R.Kennedy-Kuiper Complete: 9/26/2015
 REVIEWED BY: R.Stilwell Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5510

2015 Corridor Drilling, km 1421.6 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6723725.3m E498889.5m ELEVATION: 769m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5511				
MARL M4CT		2015 Corridor Drilling, km 1421.4 LHS		PROJECT NO: 552 202101 0908 0661-3				
SAMPLE TYPE		Coordinates: Z8V N6723341m E499345.8m		ELEVATION: 773.5m				
<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE								
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
773				125	SM		SILTY SAND with GRAVEL -Tan, damp, loose -Sub-angular to sub-rounded	1
772							-Compact	2
771				126	SM			3
770				127	SM		SILTY SAND -compact	4
769							END of HOLE -Target depth reached	

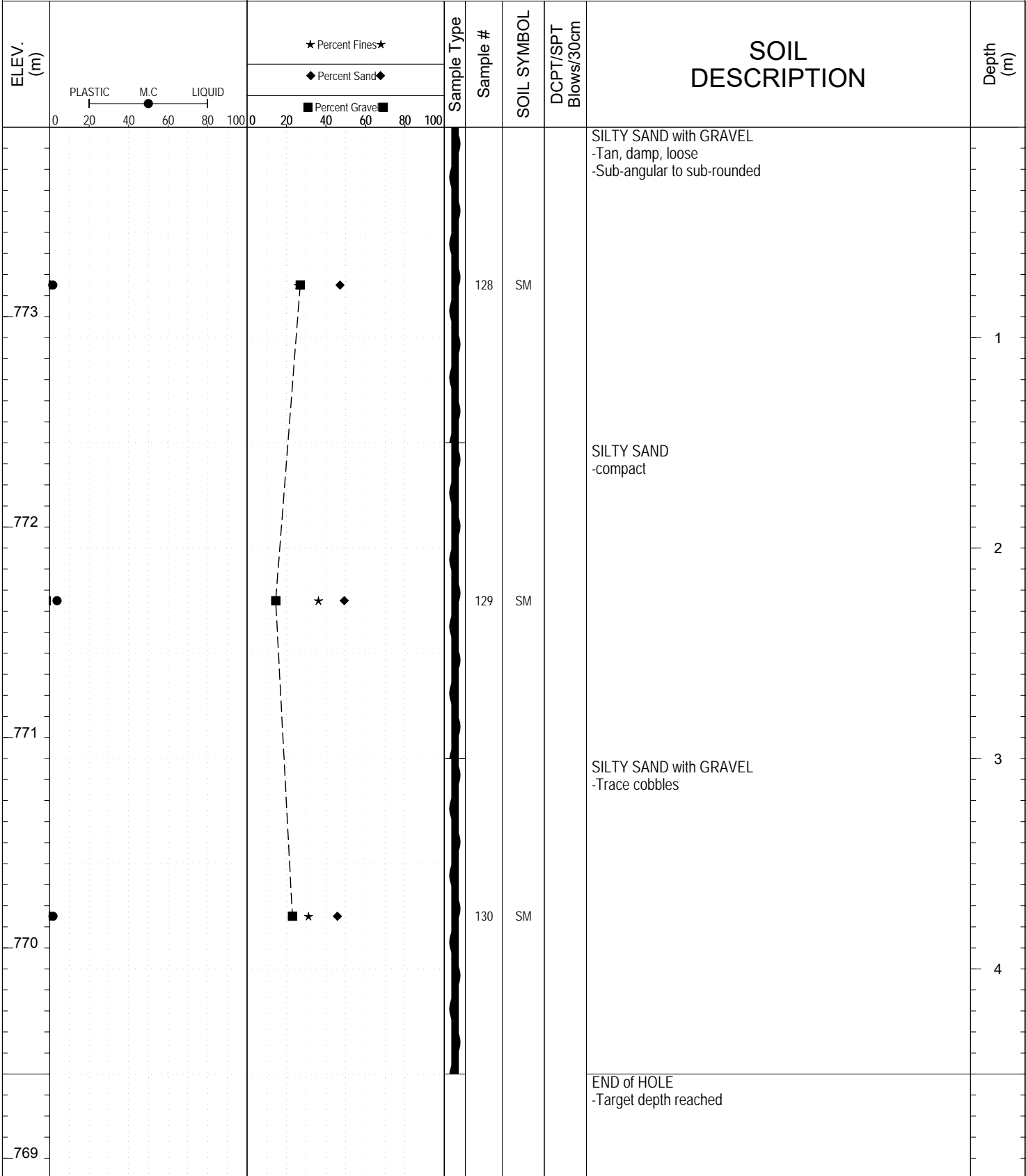


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5512

2015 Corridor Drilling, km 1421.2 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6723328m E499420.8m ELEVATION: 773.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5513

2015 Corridor Drilling, km 1421.0 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6723170.1m E499490.9m ELEVATION: 769.7m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	* Percent Fines *			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C.	LIQUID						
769					131	SM		SILTY SAND -Tan, damp, loose -Sub-angular to sub-rounded	1
768					132	ML		SANDY SILT -Light grey, damp, loose -Sub-angular to sub-rounded	2
767					133	SM		SILTY SAND -Brown/grey, damp, loose -Sub-angular to sub-rounded	3
766					134	SM		-Light brown	4
765								END OF HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

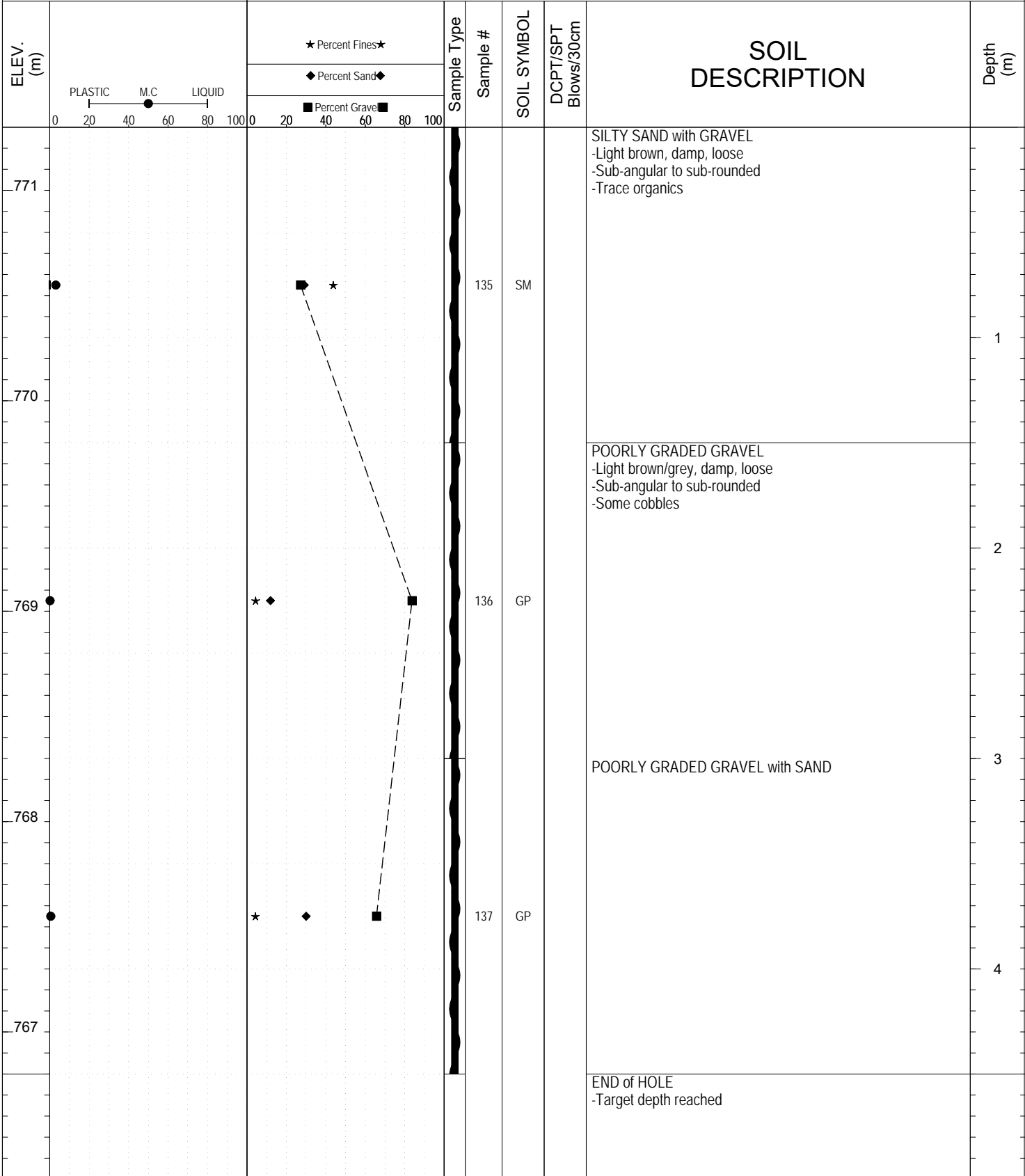
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5514

2015 Corridor Drilling, km 1419.4 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6722707.5m E499721.9m ELEVATION: 771.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi Termination Depth: 4.5m
 COMPILED BY: R.Kennedy-Kuiper Complete: 9/26/2015
 REVIEWED BY: R.Stilwell Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5515					
		2015 Corridor Drilling, km 1419.2 LHS		PROJECT NO: 552 202101 0908 0661-3					
MARL M4CT		Coordinates: Z8V N6722586.1m E499786m		ELEVATION: 765.3m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)		★ Percent Fines★		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
		◆ Percent Sand◆							
765					138	SM		WELL-GRADED SAND with SILT -Light brown, damp, loose -Sub-rounded	1
764								END of HOLE -Refusal due to rock	2
763									3
762									4
761									
		Highways and Public Works Transportation Engineering Branch				LOGGED BY: Dave Lorenzi		Termination Depth: 1.7m	
						COMPILED BY: R.Kennedy-Kuiper		Complete: 9/26/2015	
						REVIEWED BY: R.Stilwell		Pit #: _____ Page 1 of 1	

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5515-R

2015 Corridor Drilling, km 1419.2 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6722707.5m E499721.9m ELEVATION: 771.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100			★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100									
771				★ ◆ ■		139	SM		SILTY SAND with GRAVEL -Light brown, damp, loose -Sub-rounded	1
770									END of HOLE -Refusal due to rock	2
769										3
768										4
767										



Highways and Public Works
Transportation Engineering Branch

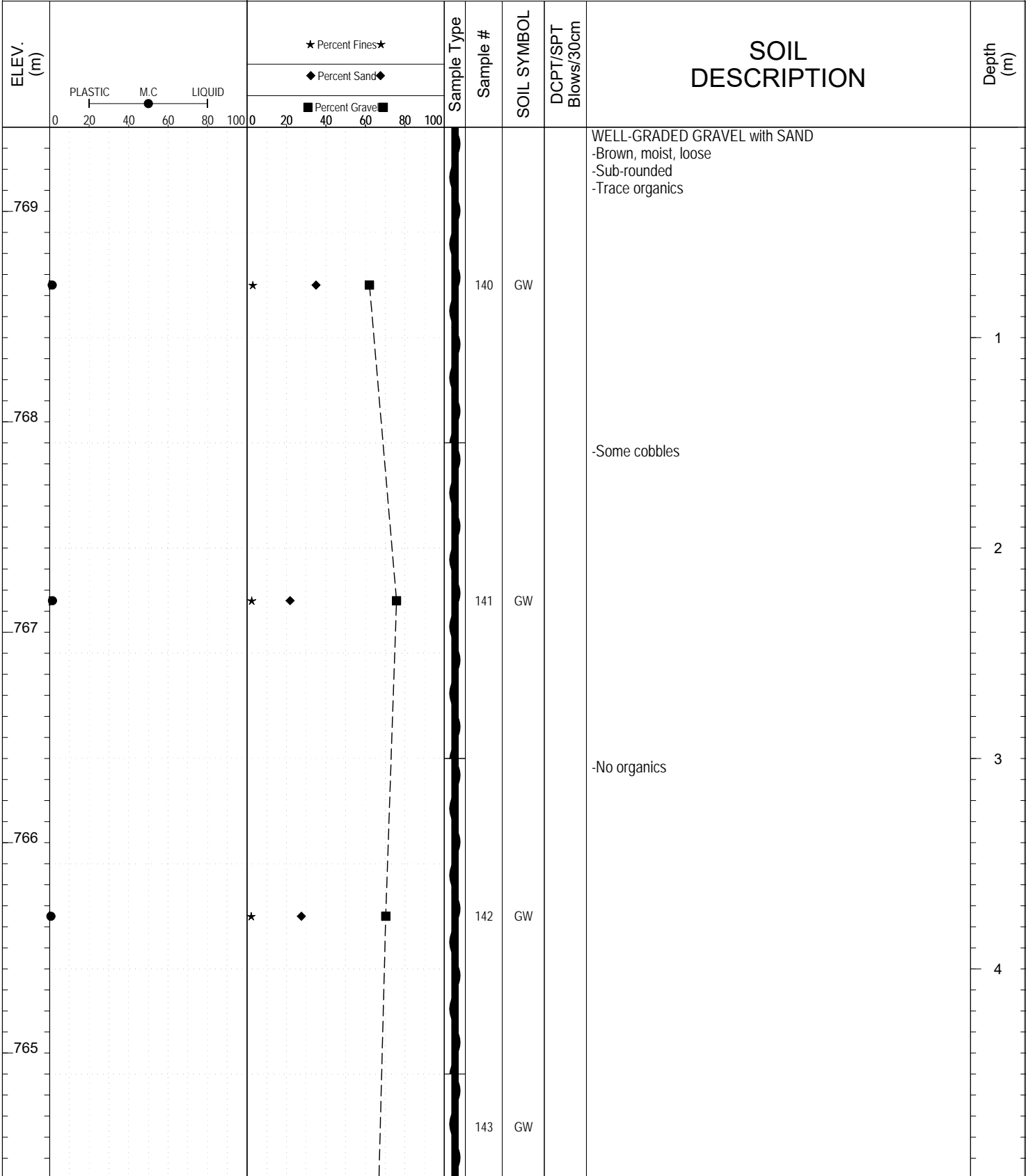
LOGGED BY: Dave Lorenzi	Termination Depth: 1.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5517

2015 Corridor Drilling, km 1418.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6721855.5m E500143.8m ELEVATION: 769.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

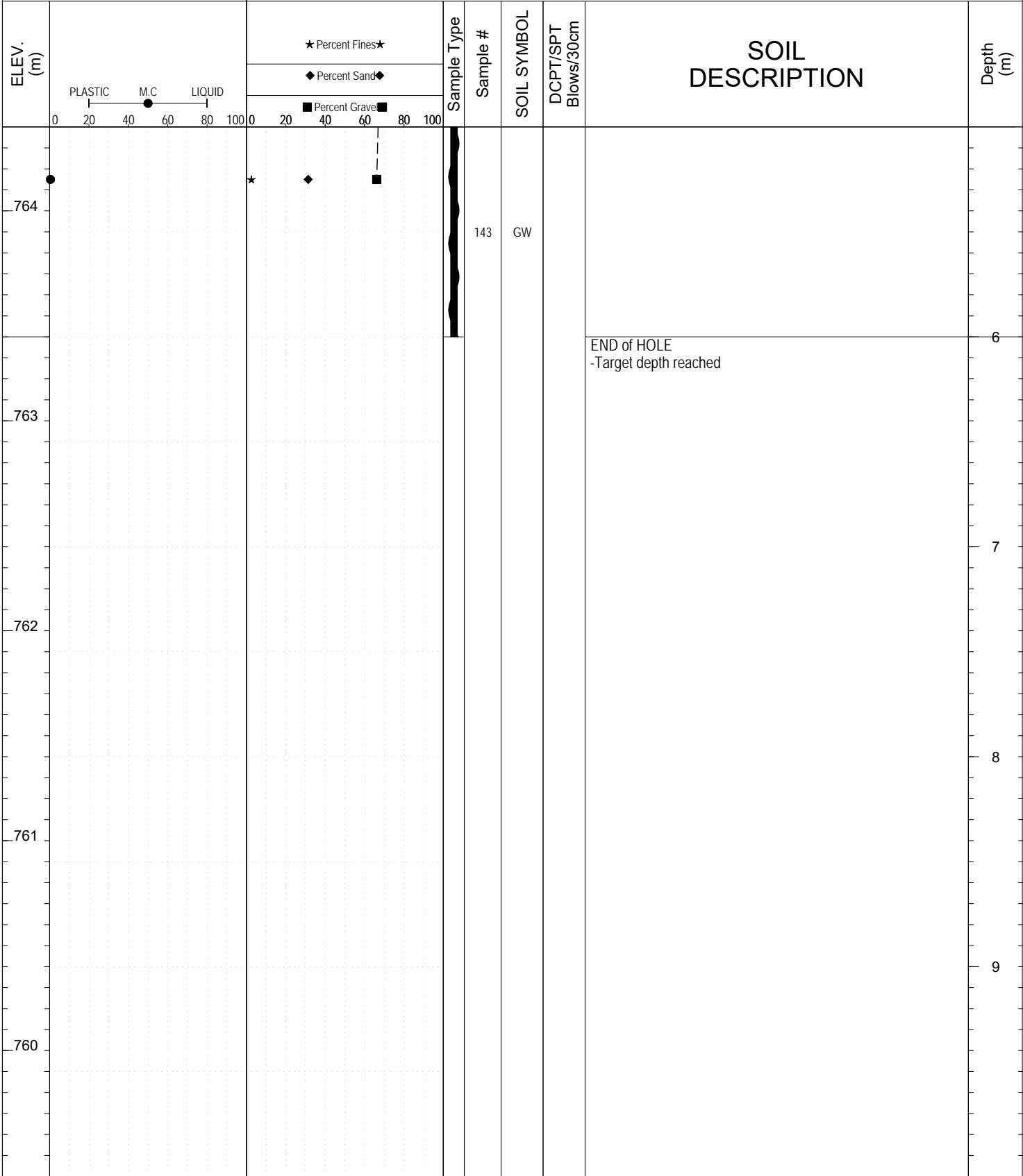
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5517

2015 Corridor Drilling, km 1418.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6721855.5m E500143.8m ELEVATION: 769.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

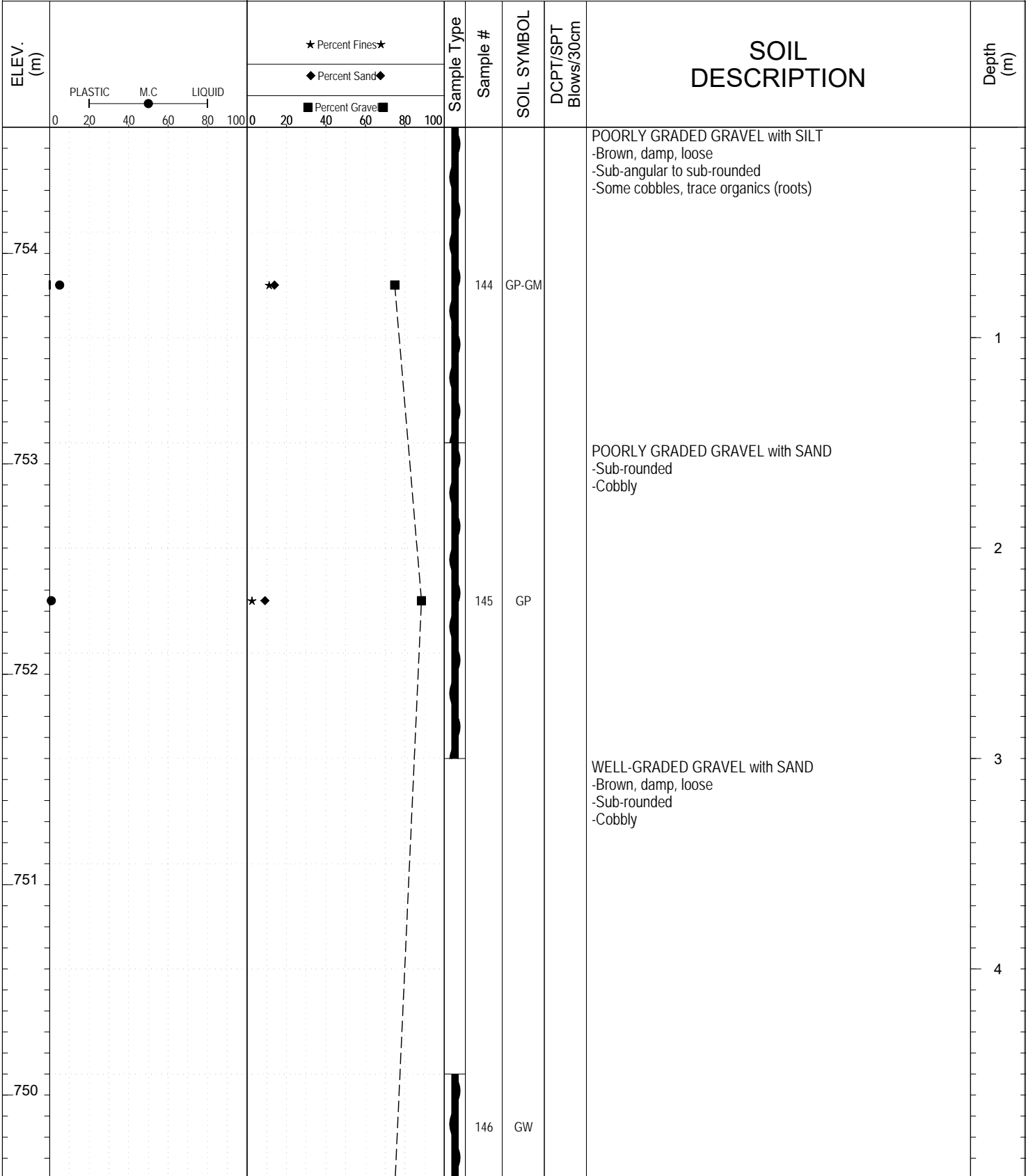
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5518

2015 Corridor Drilling, km 1417.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6721464.6m E500424m ELEVATION: 754.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

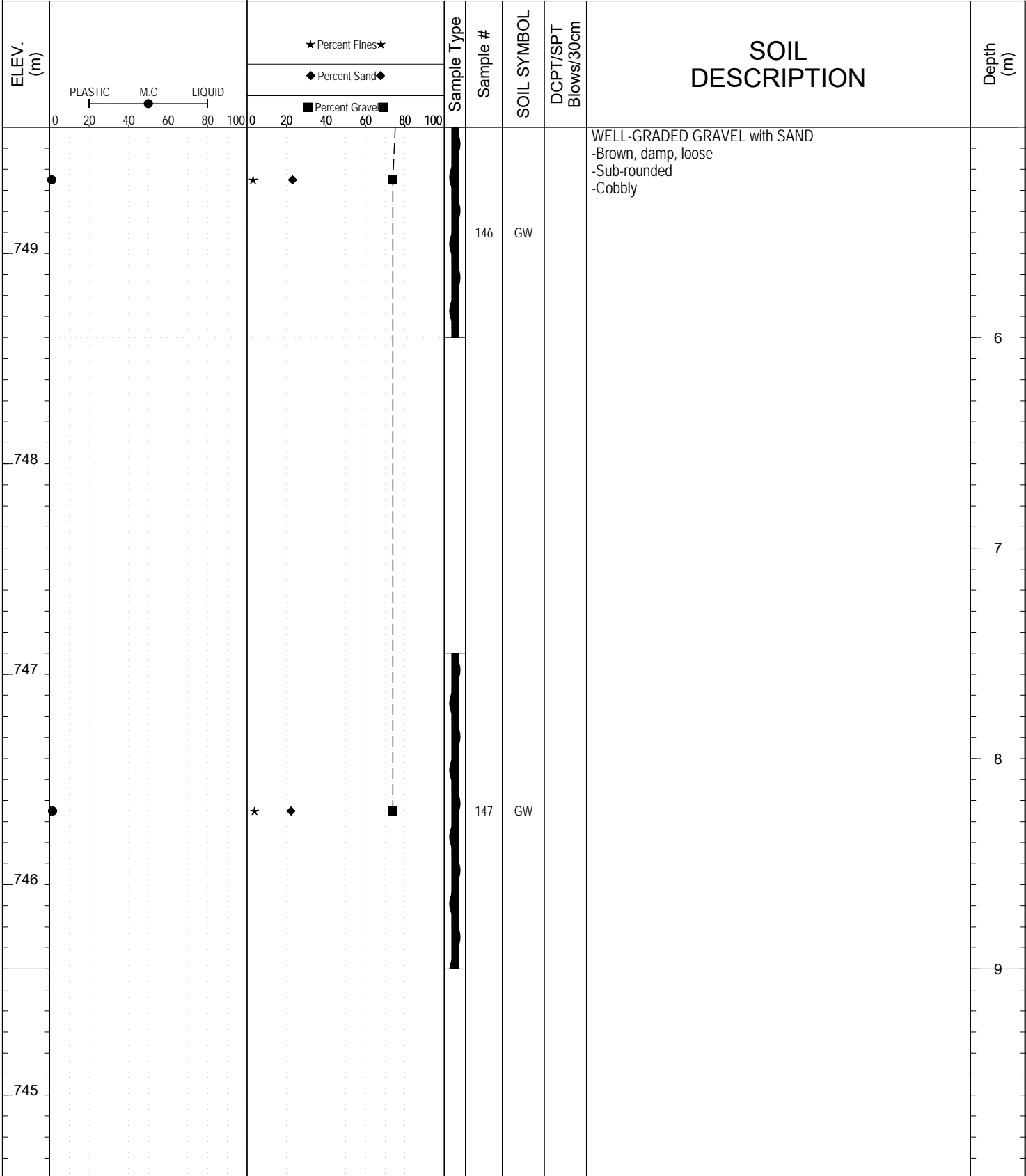
LOGGED BY: Dave Lorenzi	Termination Depth: 9m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 3

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5518

2015 Corridor Drilling, km 1417.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6721464.6m E500424m ELEVATION: 754.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 9m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5518

2015 Corridor Drilling, km 1417.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6721464.6m E500424m ELEVATION: 754.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
744							END of HOLE -Refusal, material to coarse to precede	11
743								12
742								13
741								14
740								



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Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 9m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 3 of 3

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5519

2015 Corridor Drilling, km 1417.3 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6721476.9m E500376.5m ELEVATION: 762m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0	20	40						
761	0	20	40	60	80	100	148 GW	WELL-GRADED GRAVEL with SAND -Brown, damp, loose -Sub-rounded -Some cobbles	1
760								END of HOLE -Refusal, cobbles	2
759									3
758									4
757									



Highways and Public Works
Transportation Engineering Branch

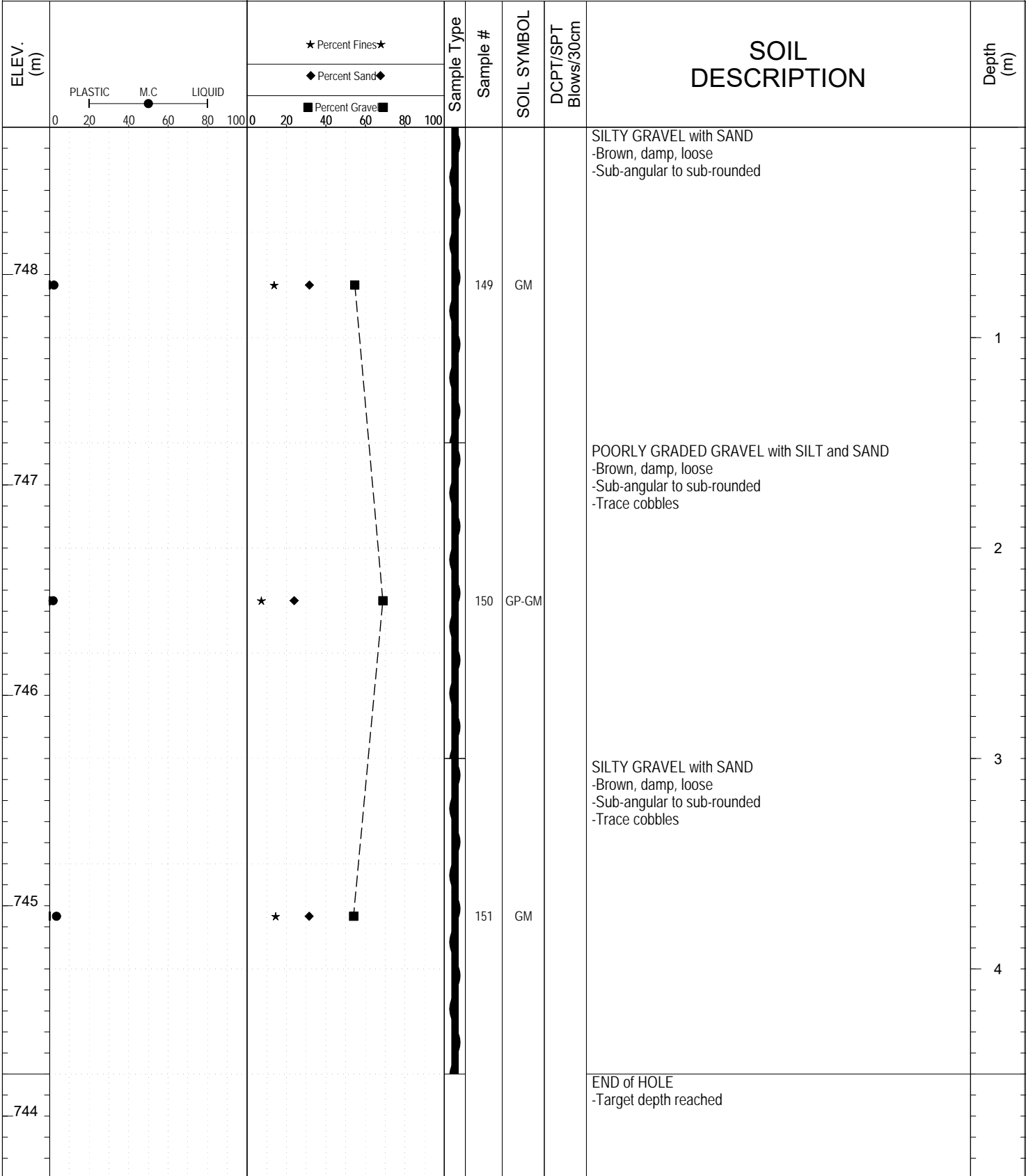
LOGGED BY: Dave Lorenzi	Termination Depth: 1.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5520

2015 Corridor Drilling, km 1416.2 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6721329.5m E500552.1m ELEVATION: 748.7m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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Transportation Engineering Branch

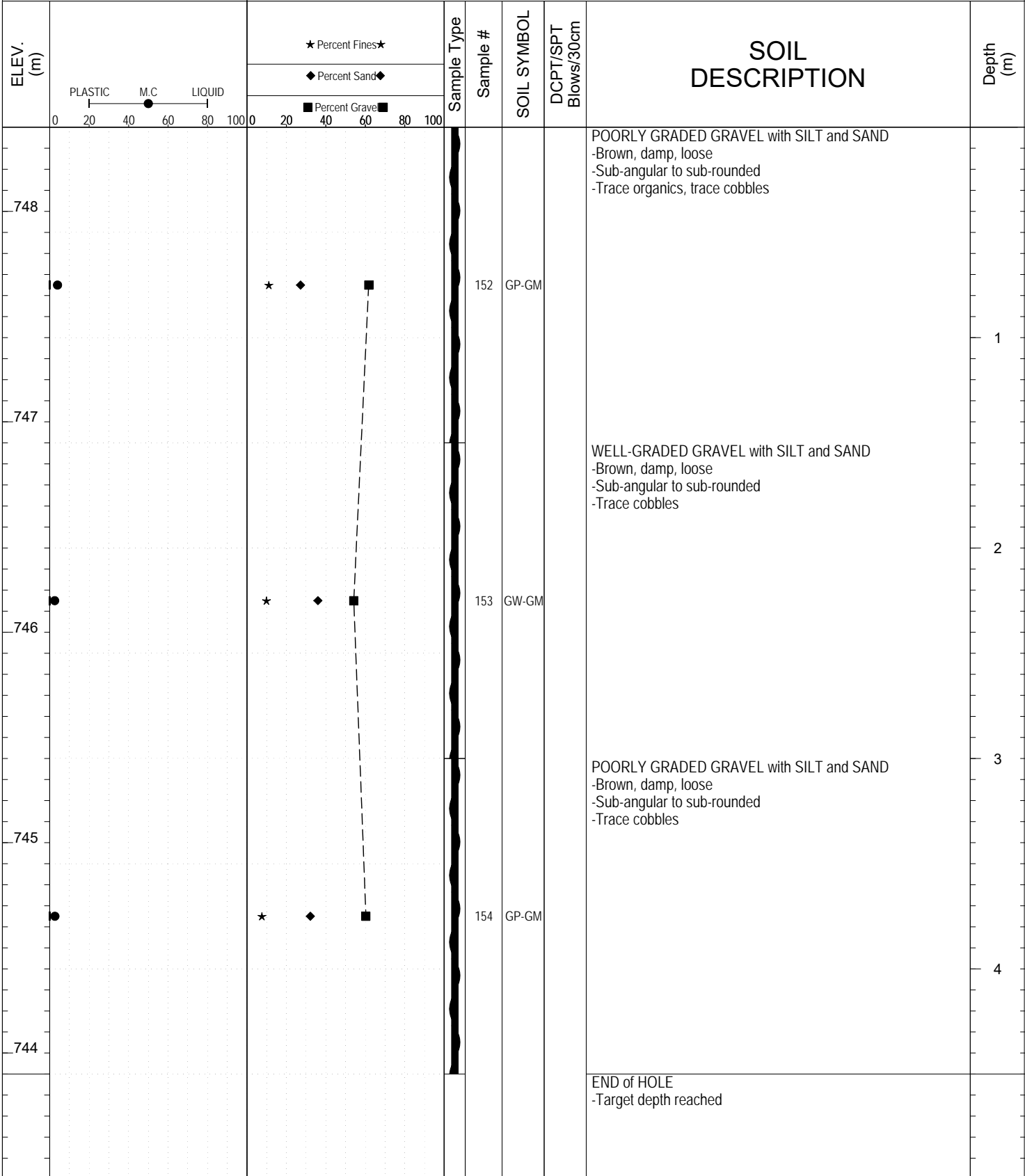
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5521

2015 Corridor Drilling, km 1415.8 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6721264.5m E500564.1m ELEVATION: 748.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 4.5m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

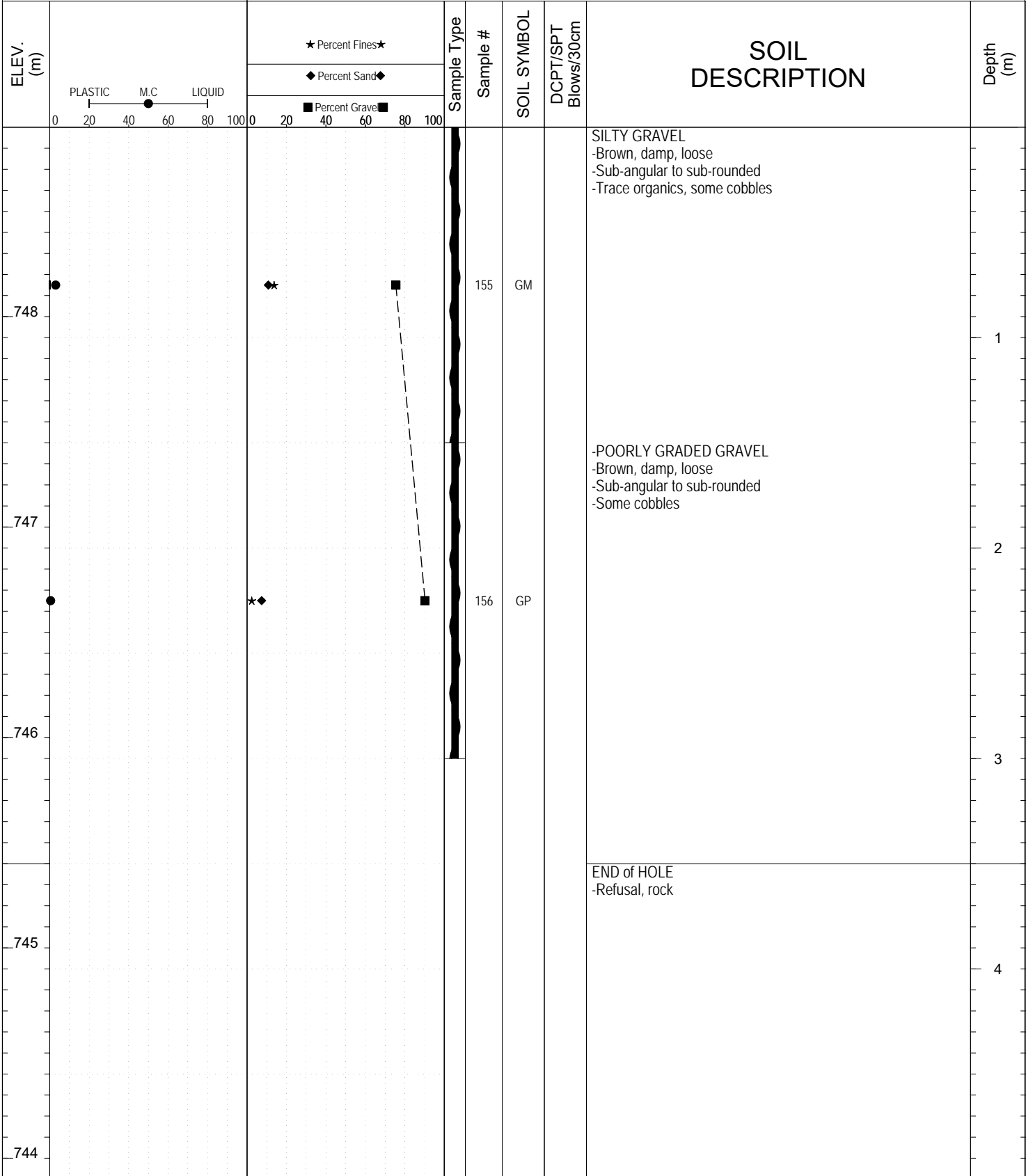
Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5522

2015 Corridor Drilling, km 1414.3 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720753.5m E501212.9m ELEVATION: 748.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 3.5m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

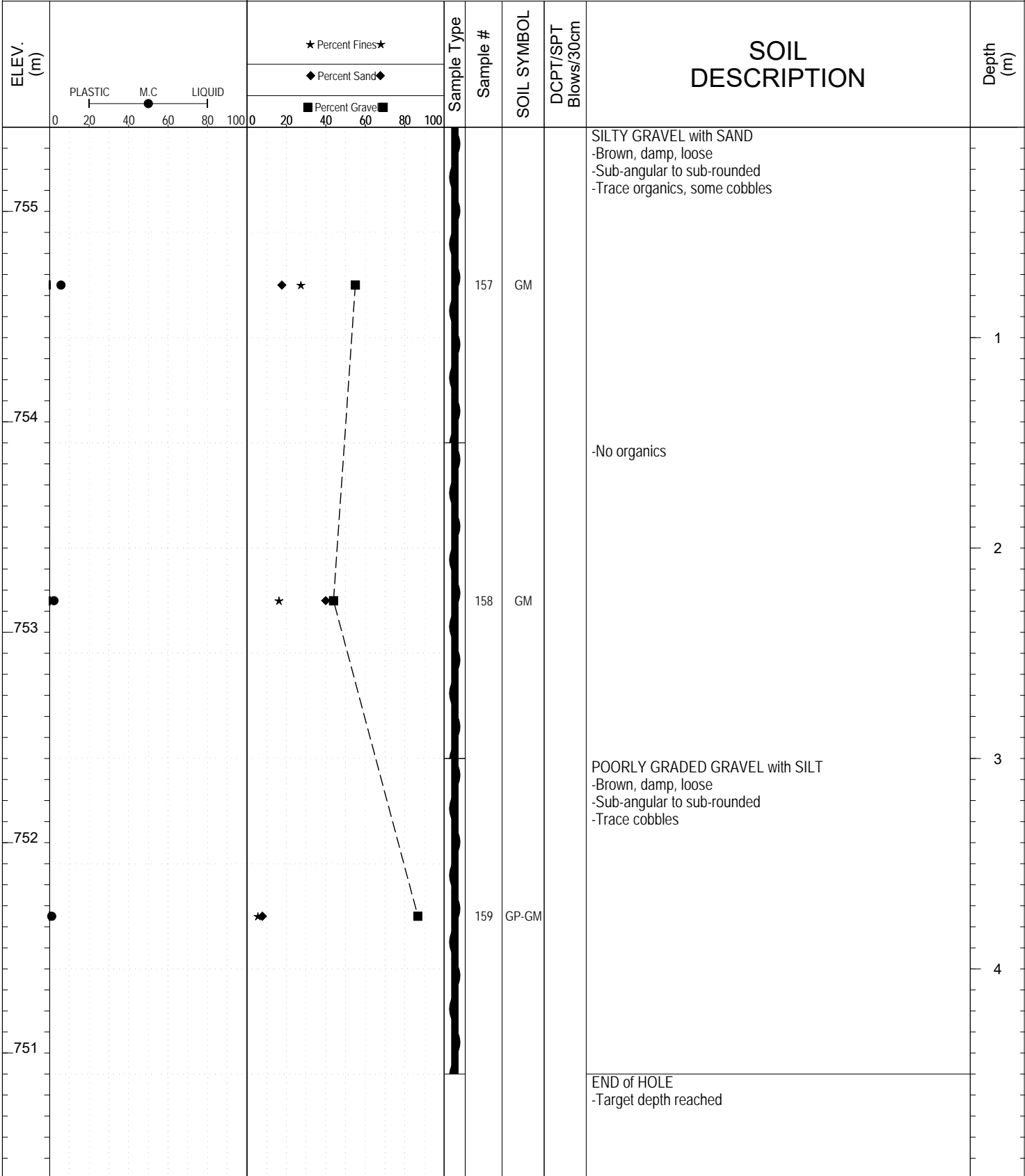
Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 45m

COMPILED BY: M. Jubinville

Complete: 9/26/2015

REVIEWED BY: R. Stilwell

Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100	0 20 40 60 80 100	0 20 40 60 80 100						
750									6
749									7
748									8
747									9
746									



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 45m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 2 of 9

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■ 0 20 40 60 80 100	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
745								11
744								12
743								13
742								14
741								



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 45m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 3 of 9

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■ 0 20 40 60 80 100	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
740								16
739								17
738								18
737								19
736								



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 45m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 4 of 9

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100			★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■ 0 20 40 60 80 100			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
735												21
734												22
733												23
732												24
731												



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 45m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 5 of 9

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■ 0 20 40 60 80 100	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
730								26
729								27
728								28
727								29
726								



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 45m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 6 of 9

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■ 0 20 40 60 80 100	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
725								31
724								32
723								33
722								34
721								



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 45m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 7 of 9

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100	0 20 40 60 80 100	0 20 40 60 80 100						
720									36
719									37
718									38
717									39
716									



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 45m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 8 of 9

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5523

2015 Corridor Drilling, km 1414.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720555.9m E501360.8m ELEVATION: 755.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■ 0 20 40 60 80 100	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
715								41
714								42
713								43
712								44
711								



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 45m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 9 of 9

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5524

2015 Corridor Drilling, km 1413.6 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720196.1m E501700.9m ELEVATION: 761.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Grave ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
761				AUGER	160	SM		SILTY SAND -Dark brown, damp, loose -Sub-angular to sub-rounded -Trace organics	1
760									
759								END of HOLE -Refusal on rock	3
758									4
757									



Highways and Public Works
Transportation Engineering Branch

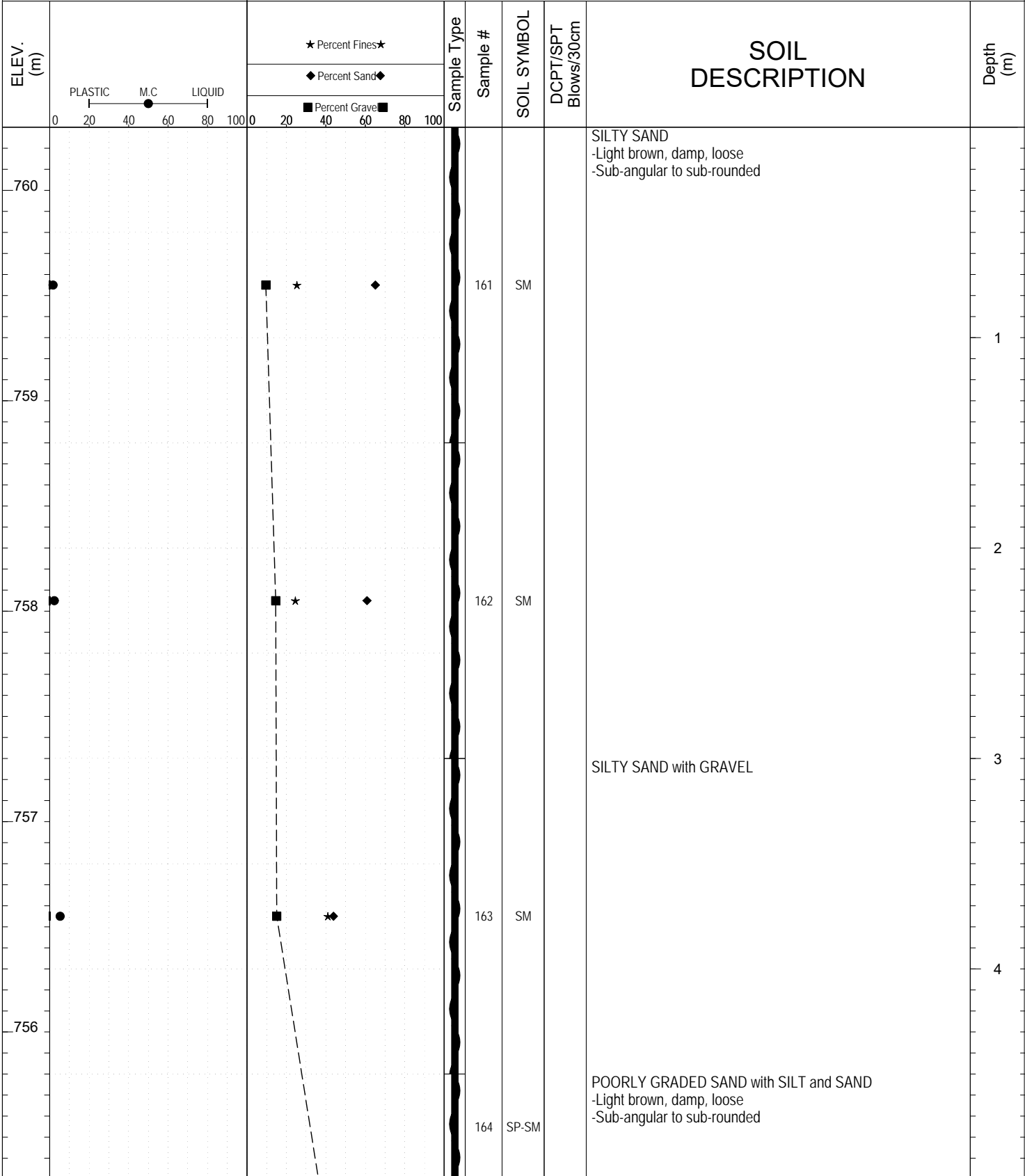
LOGGED BY: Dave Lorenzi	Termination Depth: 1.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5525

2015 Corridor Drilling, km 1413.6 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720202.8m E501752.7m ELEVATION: 760.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5525

2015 Corridor Drilling, km 1413.6 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720202.8m E501752.7m ELEVATION: 760.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
755					164	SP-SM		POORLY GRADED SAND with SILT and SAND -Light brown, damp, loose -Sub-angular to sub-rounded	
754								END of HOLE -Target depth reached	6
753									7
752									8
751									9



Highways and Public Works
Transportation Engineering Branch

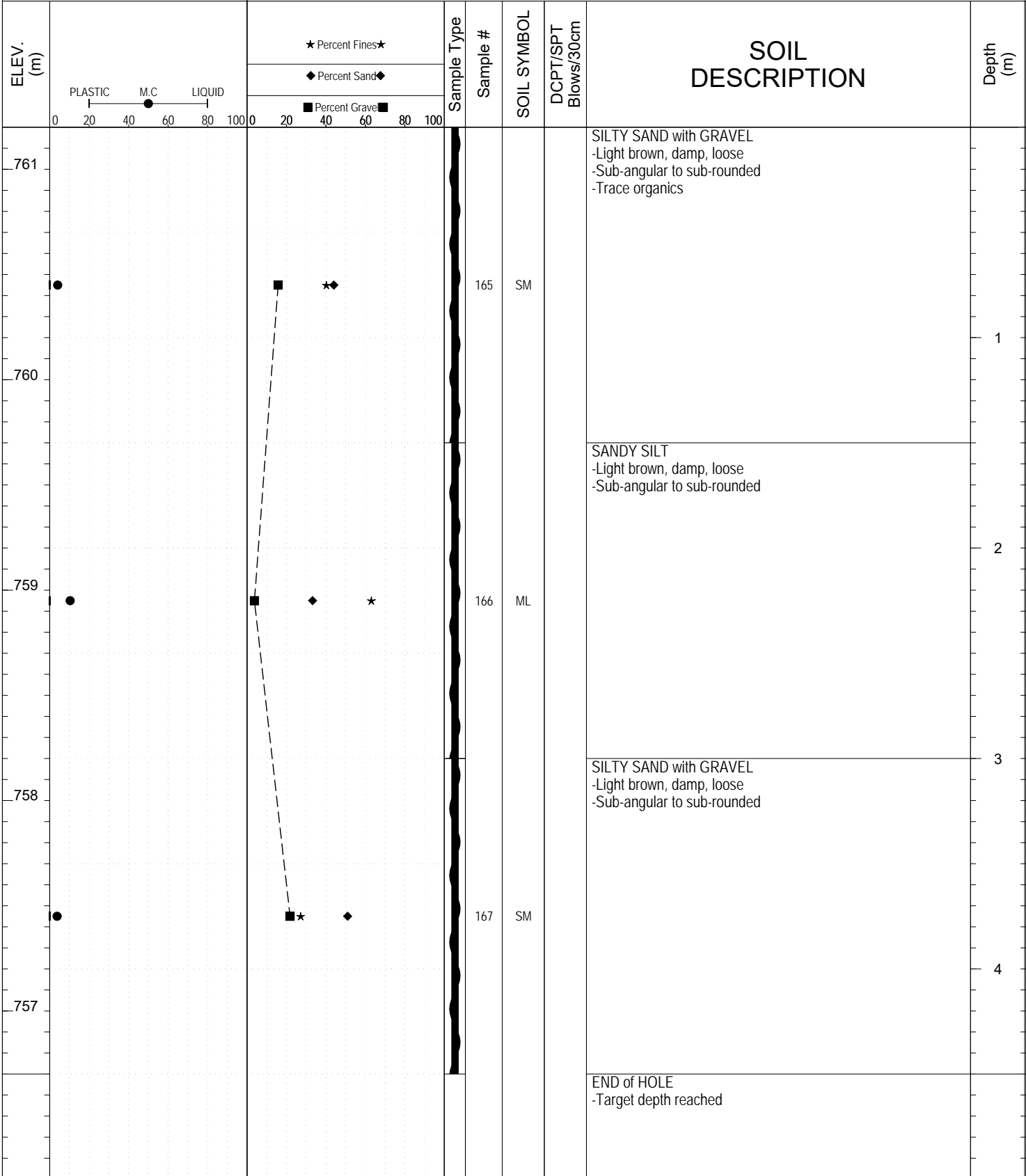
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5526

2015 Corridor Drilling, km 1413.4 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6720080.6m E501801.6m ELEVATION: 761.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5527

2015 Corridor Drilling, km 1412.65 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V Nm Em ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTICITY INDEX		PERCENT FINES		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID	Percent Fines						
1.0				~45	GM	168		SILTY GRAVEL with SAND -Tan, damp, loose -Sub-angular to sub-rounded	1.0	
2.0				~45	SM	169		SILTY SAND with GRAVEL -Tan/grey, damp, loose -Sub-angular to sub-rounded	2.0	
3.0				~45	SM	170			3.0	
4.0				~45	SM	171		-Compact	4.0	



Highways and Public Works
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LOGGED BY: Dave Lorenzi	Termination Depth: 9m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5527				
		2015 Corridor Drilling, km 1412.65 LHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V Nm Em		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED		<input type="checkbox"/> DCPT				
		<input type="checkbox"/> AUGER		<input type="checkbox"/> BULK				
		<input checked="" type="checkbox"/> SPT		<input type="checkbox"/> CORE				
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
				171	SM		-Compact	
				172	GM		SILTY GRAVEL with SAND -Tan/light grey, damp, compact -Sub-angular to sub-rounded	6
								7
								8
							END of HOLE -Target depth reached	9



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LOGGED BY: Dave Lorenzi
 COMPILED BY: R.Kennedy-Kuiper
 REVIEWED BY: R.Stilwell

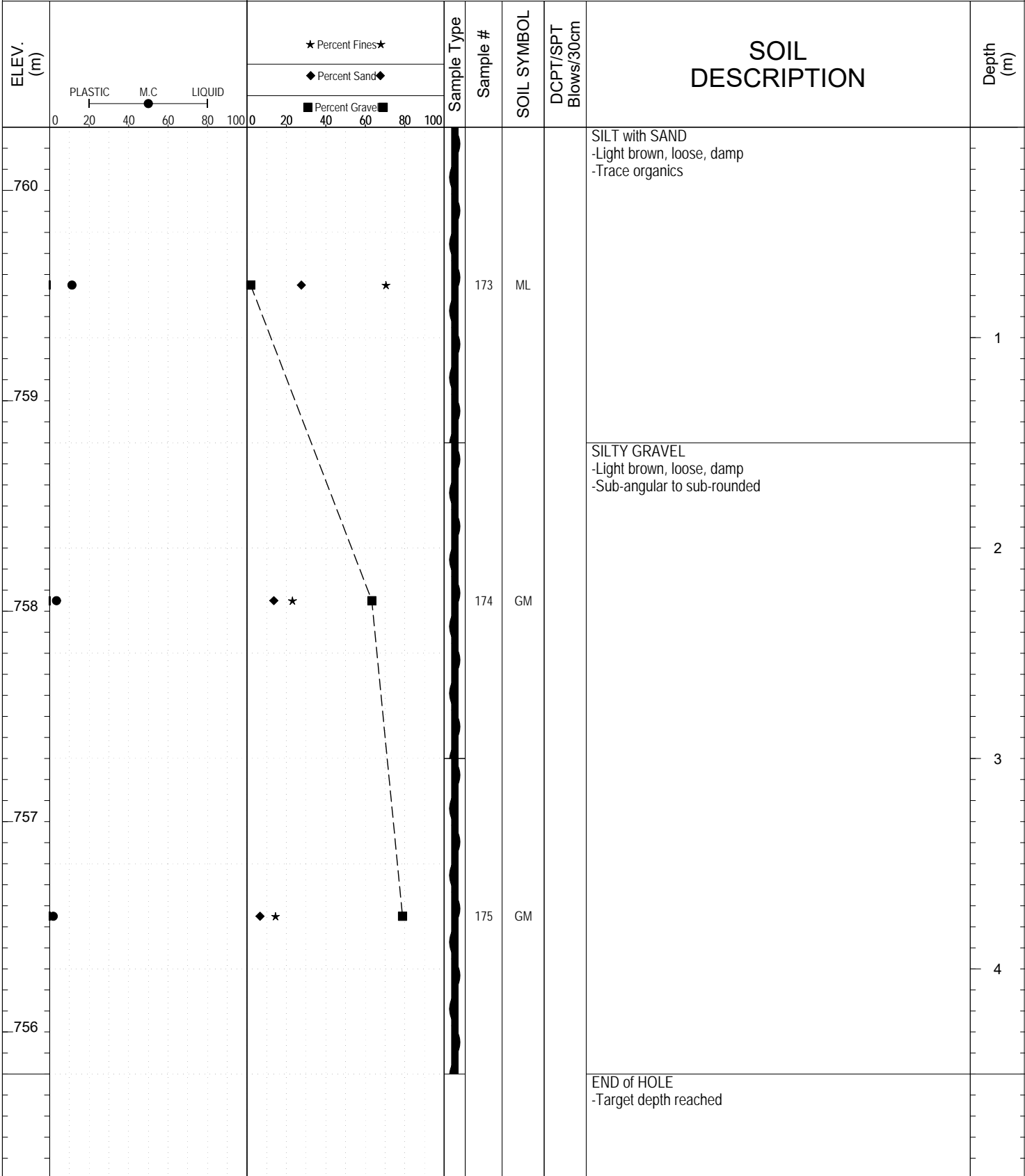
Termination Depth: 9m
 Complete: 9/26/2015
 Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5528

2015 Corridor Drilling, km 1412.1 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6719404.9m E502447.9m ELEVATION: 760.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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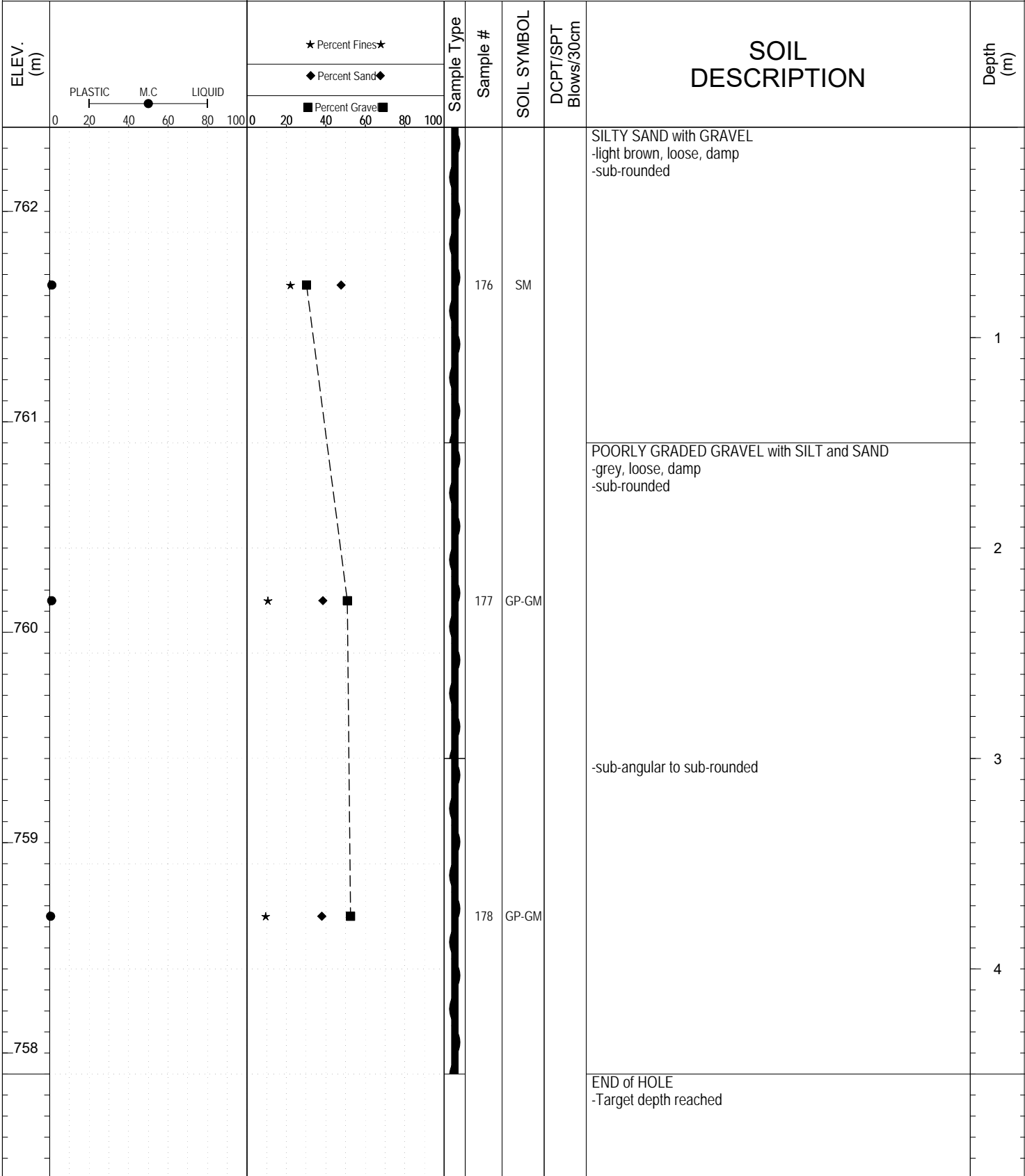
LOGGED BY: Dave Lorenzi Termination Depth: 4.5m
 COMPILED BY: R.Kennedy-Kuiper Complete: 9/26/2015
 REVIEWED BY: R.Stilwell Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5529

2015 Corridor Drilling, km 1410.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6719414m E502394.8m ELEVATION: 762.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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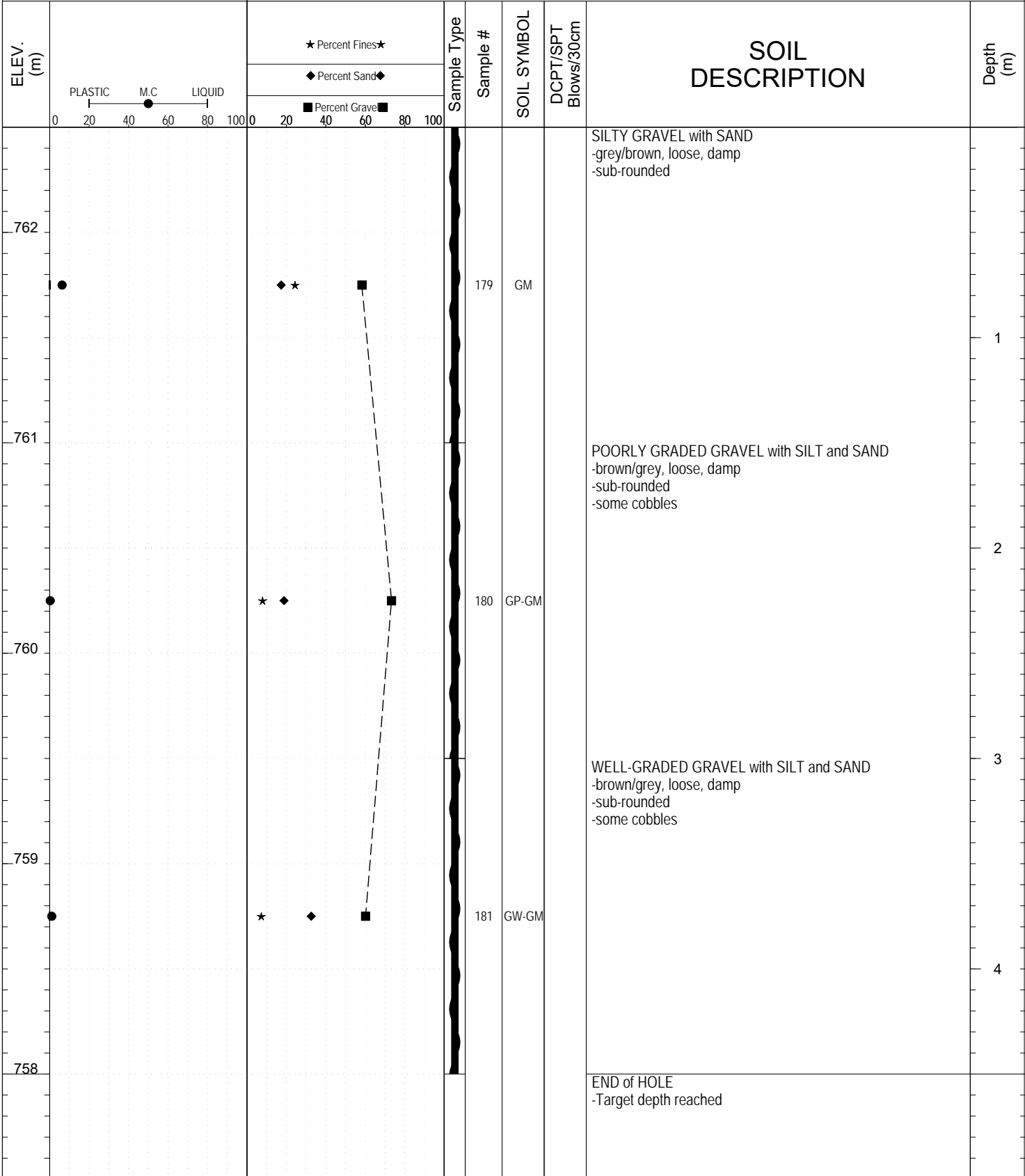
LOGGED BY: Dave Lorenzi Termination Depth: 4.5m
 COMPILED BY: R.Kennedy-Kuiper Complete: 9/26/2015
 REVIEWED BY: R.Stilwell Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5530

2015 Corridor Drilling, km 1410.3 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6719296.9m E502509.3m ELEVATION: 762.5m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
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LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5531				
MARL M4CT		2015 Corridor Drilling, km 1410.2 LHS		PROJECT NO: 552 202101 0908 0661-3				
SAMPLE TYPE		Coordinates: Z8V N6719282.9m E502572.5m		ELEVATION: 758.5m				
<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input checked="" type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE								
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 30%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> <p>0 20 40 60 80 100</p> </div> </div>			Sample Type	Sample #	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	758	●	★ ◆ ■		182	GW		
757								2
756	●	★ ◆ ■		183	GW-GM	WELL-GRADED GRAVEL with SILT and SAND -trace cobbles -sub-rounded	3	
755	●	★ ◆ ■		184	GW-GM		4	
754						END of HOLE -Target depth reached		



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5532				
		2015 Corridor Drilling, km 1409.4 LHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6718770m E503823.5m		ELEVATION: 752.5m				
SAMPLE TYPE		UNDISTURBED		DCPT				
		AUGER		BULK				
		SPT		CORE				
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
752			AUGER	185	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -brown, loose, damp -sub-rounded	1
751								
750								3
749								4
748								



SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5533

2015 Corridor Drilling, km 1409.4 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6718808.2m E503687.1m ELEVATION: 757m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0	20	40						
756									1
755					186	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -grey, loose, damp -sub-rounded -some cobbles	2
754								WELL-GRADED GRAVEL with SILT and SAND -grey, loose, damp -sub-rounded -some cobbles	3
753					187	GP-GM			4
752								END of HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

Termination Depth: 4.5m
Complete: 9/26/2015
Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5534				
		2015 Corridor Drilling, km 1409.3 LHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6718742.8m E503952.8m		ELEVATION: 746.9m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
746			GP-GM	188	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -brown, loose, damp -sub-angular to sub-rounded -trace fibrous organics	1
745			GW-GM	189	GW-GM		WELL-GRADED GRAVEL with SILT and SAND -brown, loose, damp -sub-angular to sub-rounded -some cobbles	2
744			GW-GM	190	GW-GM			3
743			GW-GM	190	GW-GM			4
742							END of HOLE -Target depth reached	

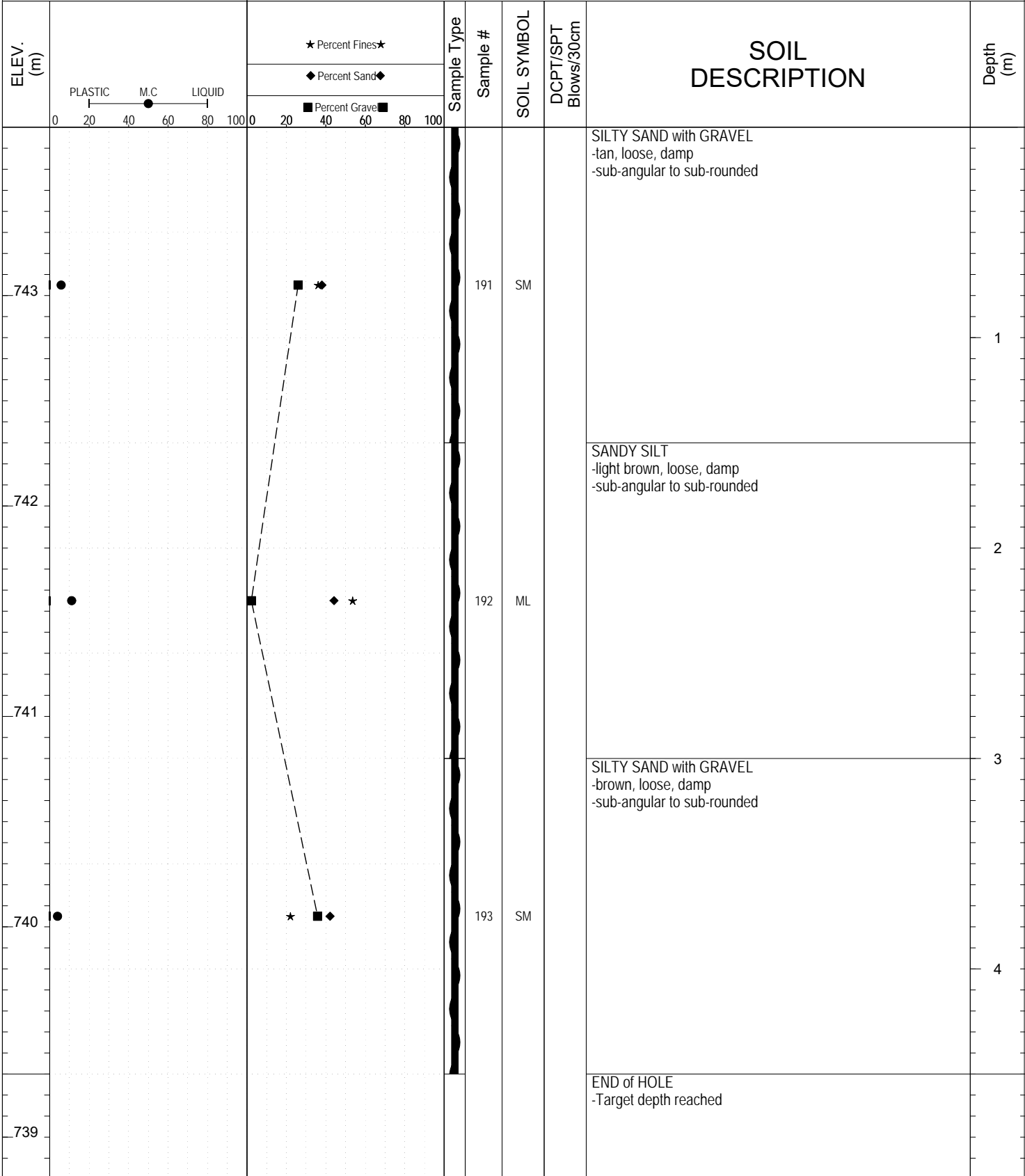


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5535

2015 Corridor Drilling, km 1407.8 LHS PROJECT NO: 552 202101 0908 0661-3


MARL M4CT Coordinates: Z8V N6718703.9m E504246.6m ELEVATION: 743.8m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5536					
		2015 Corridor Drilling, km 1407.7 LHS		PROJECT NO: 552 202101 0908 0661-3					
MARL M4CT		Coordinates: Z8V N6718678.3m E504367.2m		ELEVATION: 740.7m					
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE			
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)	
	PLASTIC M.C LIQUID 0 20 40 60 80 100								
740				194	SM		SILTY SAND with GRAVEL -brown, loose, damp -sub-angular to sub-rounded	1	
739							-grey/brown	2	
738				195	SM				
737				196	ML		SILT -light grey, loose, damp -sub-angular to sub-rounded	3	
736							END of HOLE -Target depth reached	4	
			Highways and Public Works Transportation Engineering Branch			LOGGED BY: Dave Lorenzi COMPILED BY: R.Kennedy-Kuiper REVIEWED BY: R.Stilwell		Termination Depth: 4.5m Complete: 9/26/2015 Pit #:	

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5537				
		2015 Corridor Drilling, km 1407.6 LHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6718527.4m E504657.3m		ELEVATION: 745.4m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
745				197	SM		SILTY SAND with GRAVEL -grey, loose, damp -sub-angular to sub-rounded	
744				198	SP-SM		POORLY GRADED SAND with SILT and GRAVEL -brown, loose, damp -sub-angular to sub-rounded -trace cobbles	1
743				199	SP-SM			2
742				200	GM		SILTY GRAVEL with SAND -grey, loose, damp -sub-angular to sub-rounded	3
741							END of HOLE -Target depth reached	4

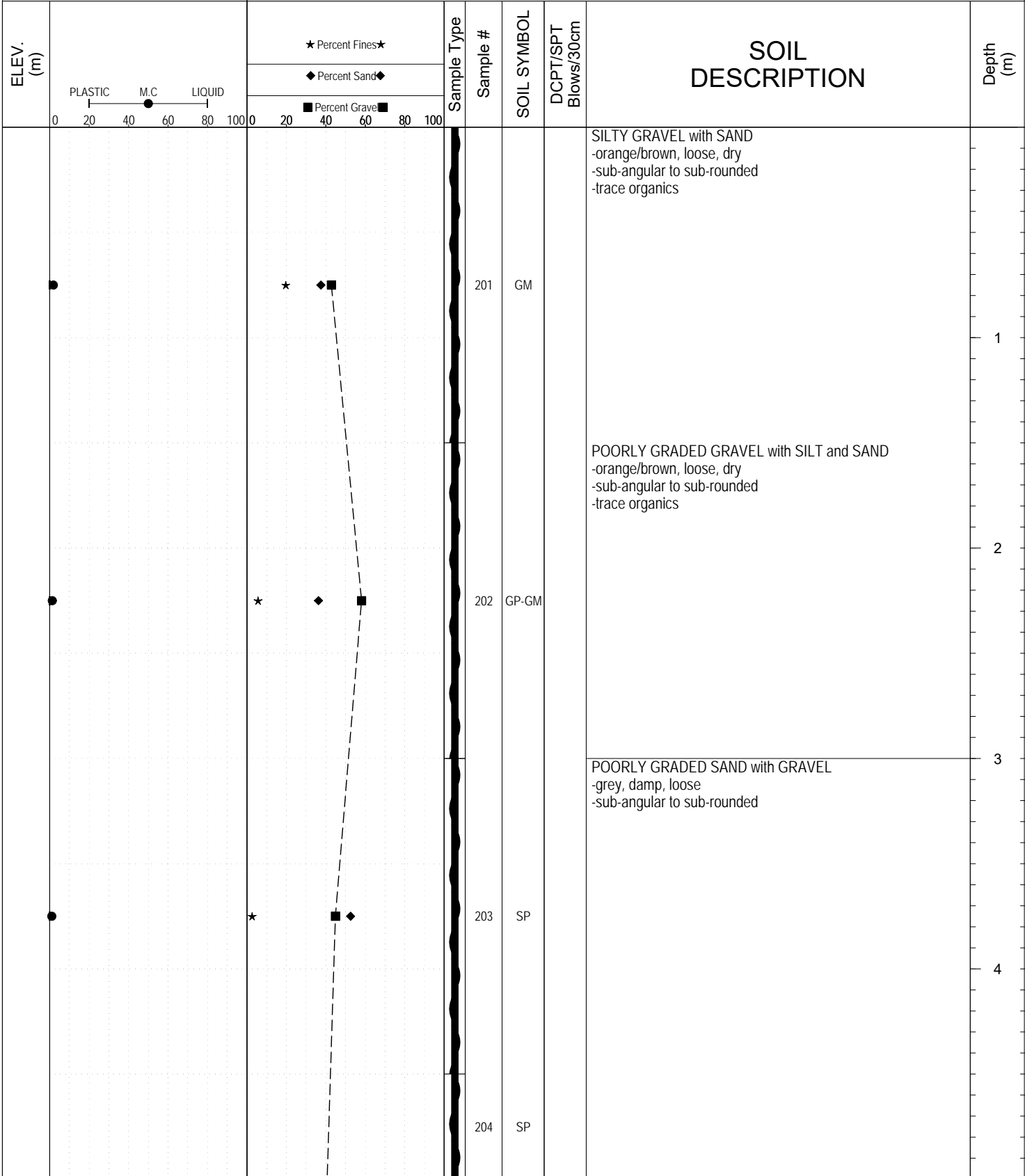


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5538

2015 Corridor Drilling, km 1406.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V Nm Em ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5538

2015 Corridor Drilling, km 1406.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V Nm Em ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100			★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				★	◆	■	AUGER	204	SP			
											END of HOLE -Target depth reached	6
												7
												8
												9



Highways and Public Works
Transportation Engineering Branch

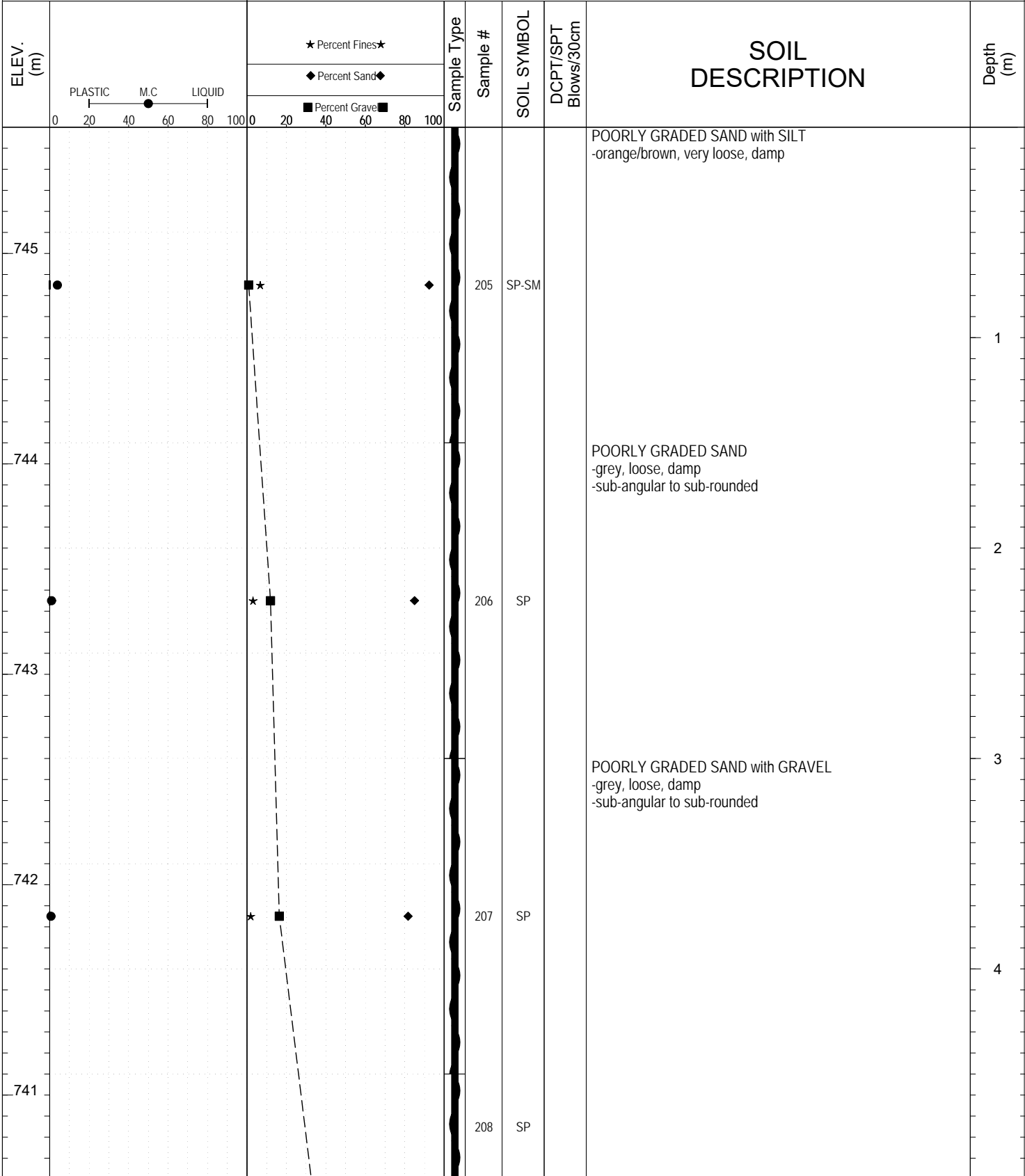
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5539

2015 Corridor Drilling, km 1406.8 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6718499.4m E504771.5m ELEVATION: 745.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

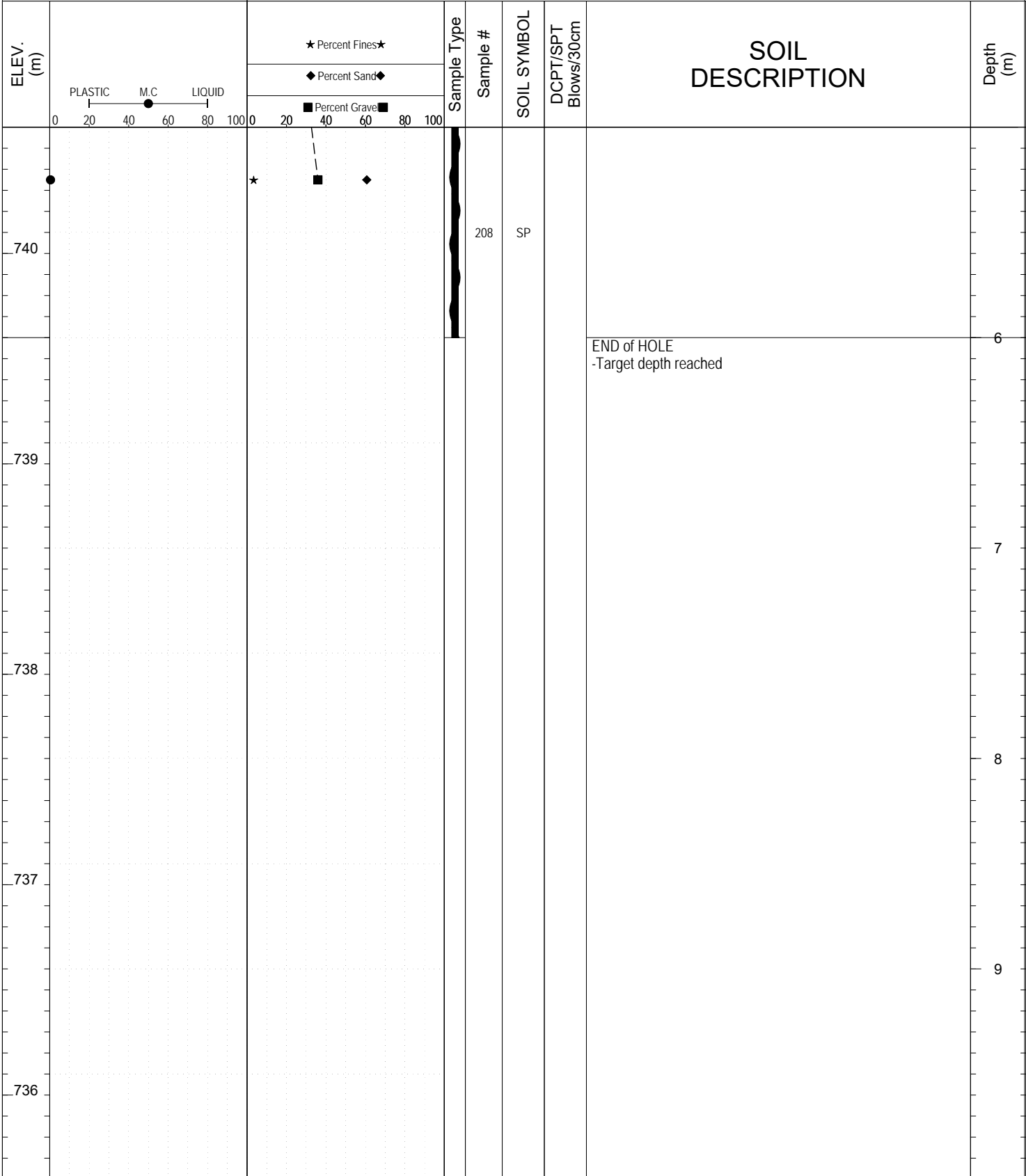
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5539

2015 Corridor Drilling, km 1406.8 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6718499.4m E504771.5m ELEVATION: 745.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

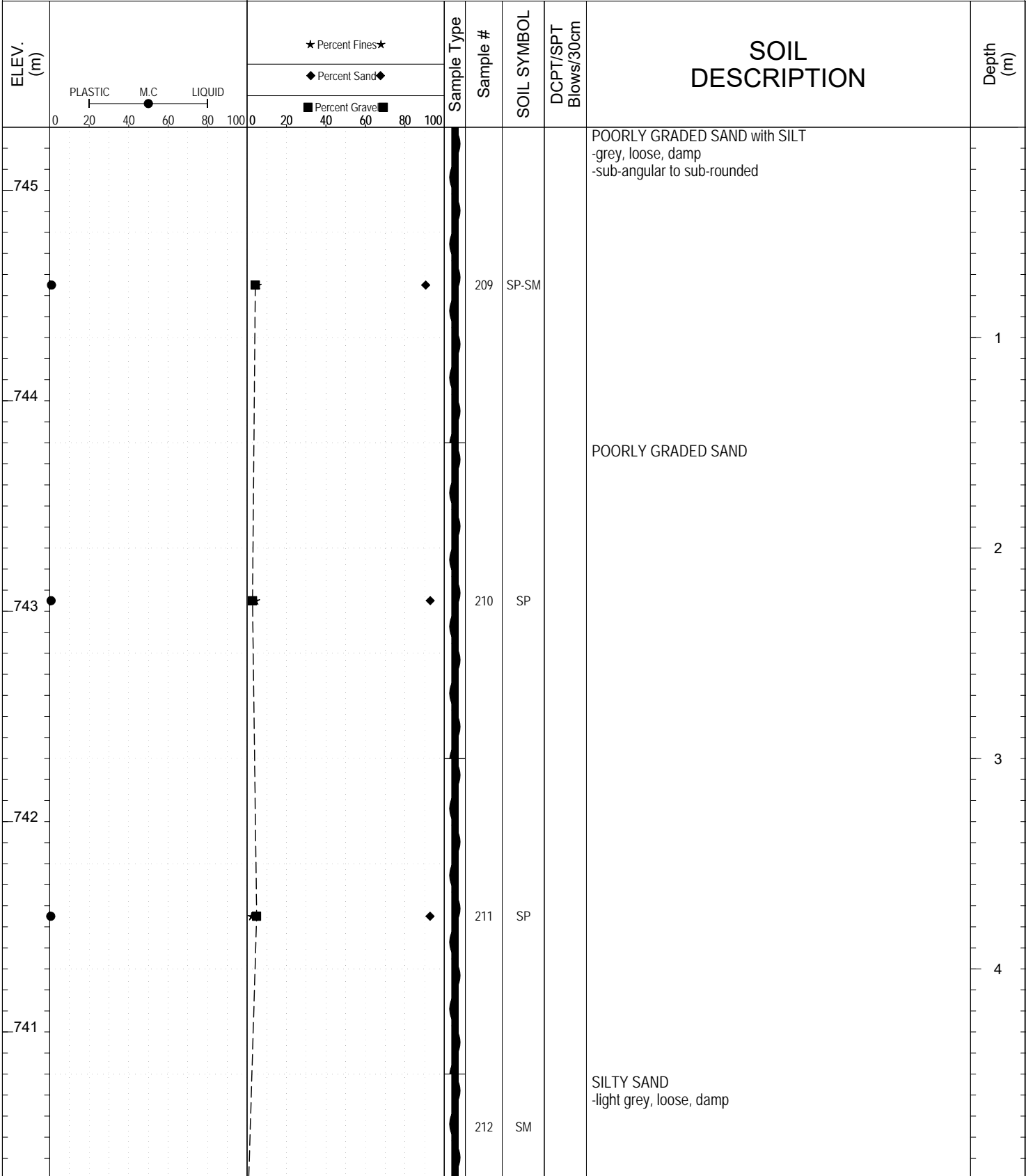
LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5540

2015 Corridor Drilling, km 1406.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6718435.8m E505015.8m ELEVATION: 745.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5540

2015 Corridor Drilling, km 1406.5 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6718435.8m E505015.8m ELEVATION: 745.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
740	0	50	100	■	★	◆		SILTY SAND -light grey, loose, damp	
739					212	SM		END of HOLE -Target depth reached	6
738									7
737									8
736									9



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 2 of 2

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5541						
MARL M4CT		2015 Corridor Drilling, km 1405.4 LHS		PROJECT NO: 552 202101 0908 0661-3						
SAMPLE TYPE		Coordinates: Z8V N6718216.3m E505946m		ELEVATION: 748.3m						
<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE										
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> PLASTIC M.C LIQUID 0 20 40 60 80 100 </div> <div style="width: 20%;"> ★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■ </div> <div style="width: 20%;"> 0 20 40 60 80 100 </div> </div>			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)	
	748	●	★	■	◆	213	SW-SM			WELL-GRADED SAND with SILT and GRAVEL -brown/grey, loose, damp -sub-angular to sub-rounded
747	●	★	■	◆	214	SP-SM			POORLY GRADED SAND with SILT and GRAVEL -grey, loose, damp -sub-angular to sub-rounded	1
746	●	★	■	◆	215	SP-SM			POORLY GRADED SAND with SILT	2
745	●	★	■	◆	216	SP-SM			POORLY GRADED SAND with SILT and GRAVEL	3
744	●	★	■	◆					END OF HOLE -Target depth reached	4

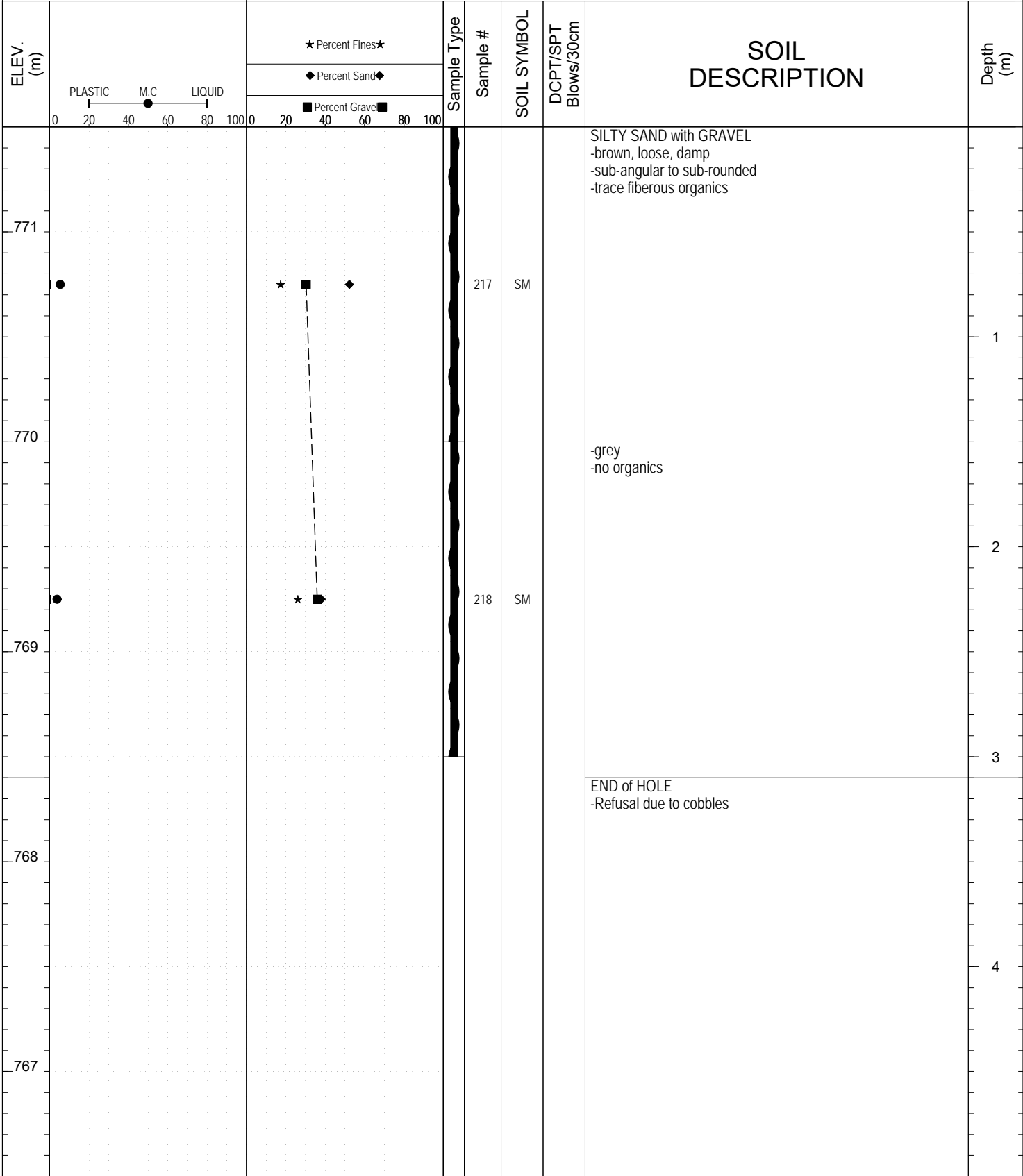


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5542

2015 Corridor Drilling, km 1401.8 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6717840.7m E509677.5m ELEVATION: 771.5m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi Termination Depth: 3.1m
 COMPILED BY: R.Kennedy-Kuiper Complete: 9/26/2015
 REVIEWED BY: R.Stilwell Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5543				
		2015 Corridor Drilling, km 1401.8 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6717875.1m E509715.7m		ELEVATION: 768.2m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
768				219	ML		SANDY SILT with GRAVEL -light brown, loose, damp -sub-angular to sub-rounded	1
767							SILTY SAND with GRAVEL -light brown, loose, damp -sub-angular to sub-rounded	2
766				220	SM		POORLY GRADED SAND with SILT -light brown, loose, damp -sub-angular to sub-rounded	3
765								
764				221	SP-SM			END of HOLE -Target depth reached



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5544				
		2015 Corridor Drilling, km 1403.7 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6718042m E507742.7m		ELEVATION: 762.5m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
762				222	SM		SILTY SAND with GRAVEL -light brown, loose, damp -sub-angular to sub-rounded	1
761							-grey -sub-angular	2
760				223	SM			3
759								
758				224	SM			4
							END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5545				
MARL M4CT		2015 Corridor Drilling, km 1403.9 RHS		PROJECT NO: 552 202101 0908 0661-3				
SAMPLE TYPE		Coordinates: Z8V N6718075.9m E507630.6m		ELEVATION: 758.7m				
<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE								
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100 0 20 40 60 80 100							
758	●	◆★		225			SILTY SAND with GRAVEL -grey/brown, loose, damp -sub-angular to sub-rounded	1
757							-grey	2
756	●	◆★		226			-compact	3
755	●	◆★		227				4
754							END of HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi

Termination Depth: 4.5m

COMPILED BY: R.Kennedy-Kuiper

Complete: 9/26/2015

REVIEWED BY: R.Stilwell

Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5546

2015 Corridor Drilling, km 1405.3 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6718238.2m E506142.7m ELEVATION: 754.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)								
	PLASTIC	M.C	LIQUID														
754	0	20	40	60	80	100	0	20	40	60	80	100	228	GP-GM		POORLY GRADED GRAVEL with SILT -brown, loose, damp -sub-angular to sub-rounded -trace organics END of HOLE -Refusal due to rock	1
753																	2
752																	3
751																	4
750																	



Highways and Public Works
Transportation Engineering Branch

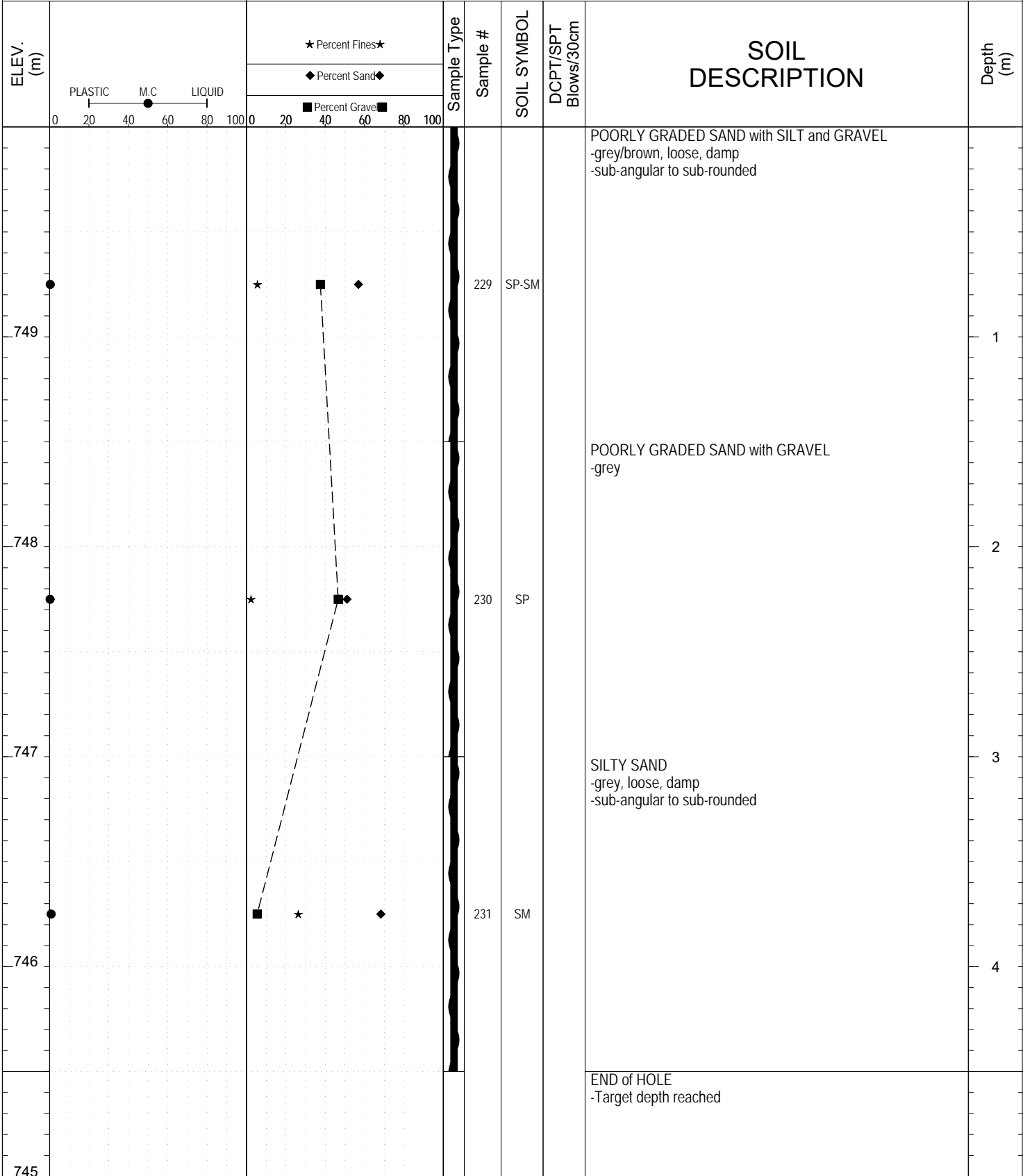
LOGGED BY: Dave Lorenzi	Termination Depth: 0.3m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 881-5547

2015 Corridor Drilling, km 1405.4 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6718261.6m E505945.9m ELEVATION: 750m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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Transportation Engineering Branch

LOGGED BY: Dave Lorenzi Termination Depth: 4.5m
 COMPILED BY: R.Kennedy-Kuiper Complete: 9/26/2015
 REVIEWED BY: R.Stilwell Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 881-5548				
		2015 Corridor Drilling, km 1405.8 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6718294m E505698.3m		ELEVATION: 738.5m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
738				232	SM		SILTY SAND with GRAVEL -light brown, loose, damp -sub-angular to sub-rounded -trace fibrous organics	1
737							POORLY GRADED GRAVEL with SAND -grey/brown, loose, damp -sub-angular to sub-rounded	2
736				233	GP		POORLY GRADED SAND -grey, loose, damp -sub-angular to sub-rounded	3
735				234	SP			4
734							END of HOLE -Target depth reached	

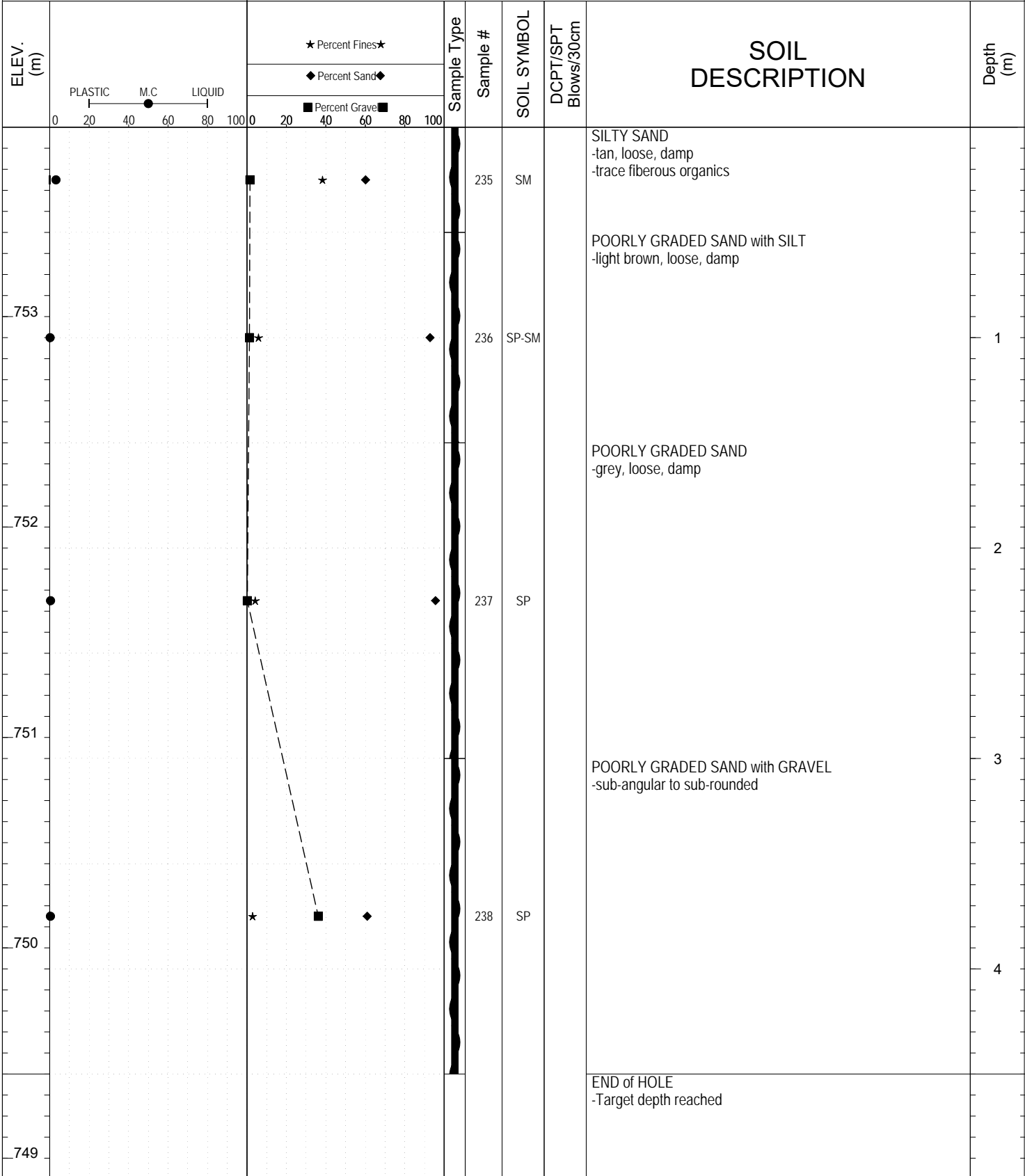


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5549

2015 Corridor Drilling, km 1406.8 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6736659m E492179.7m ELEVATION: 753.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5550				
		2015 Corridor Drilling, km 1407.2 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6737023.1m E492023.1m		ELEVATION: 752.6m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)		★ Percent Fines★	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
		◆ Percent Sand◆						
752		★		239	GW		WELL-GRADED GRAVEL with SAND -brown, loose, damp -sub-angular to sub-rounded -trace cobbles	1
751		★		240	GP		POORLY GRADED GRAVEL with SAND -brown, loose, damp -sub-angular to sub-rounded -some cobbles	2
750		★		241	GW		WELL-GRADED GRAVEL with SAND -brown/grey, loose, damp -sub-angular to sub-rounded -some cobbles	3
749		★		241	GW			4
748							END of HOLE -Target depth reached	

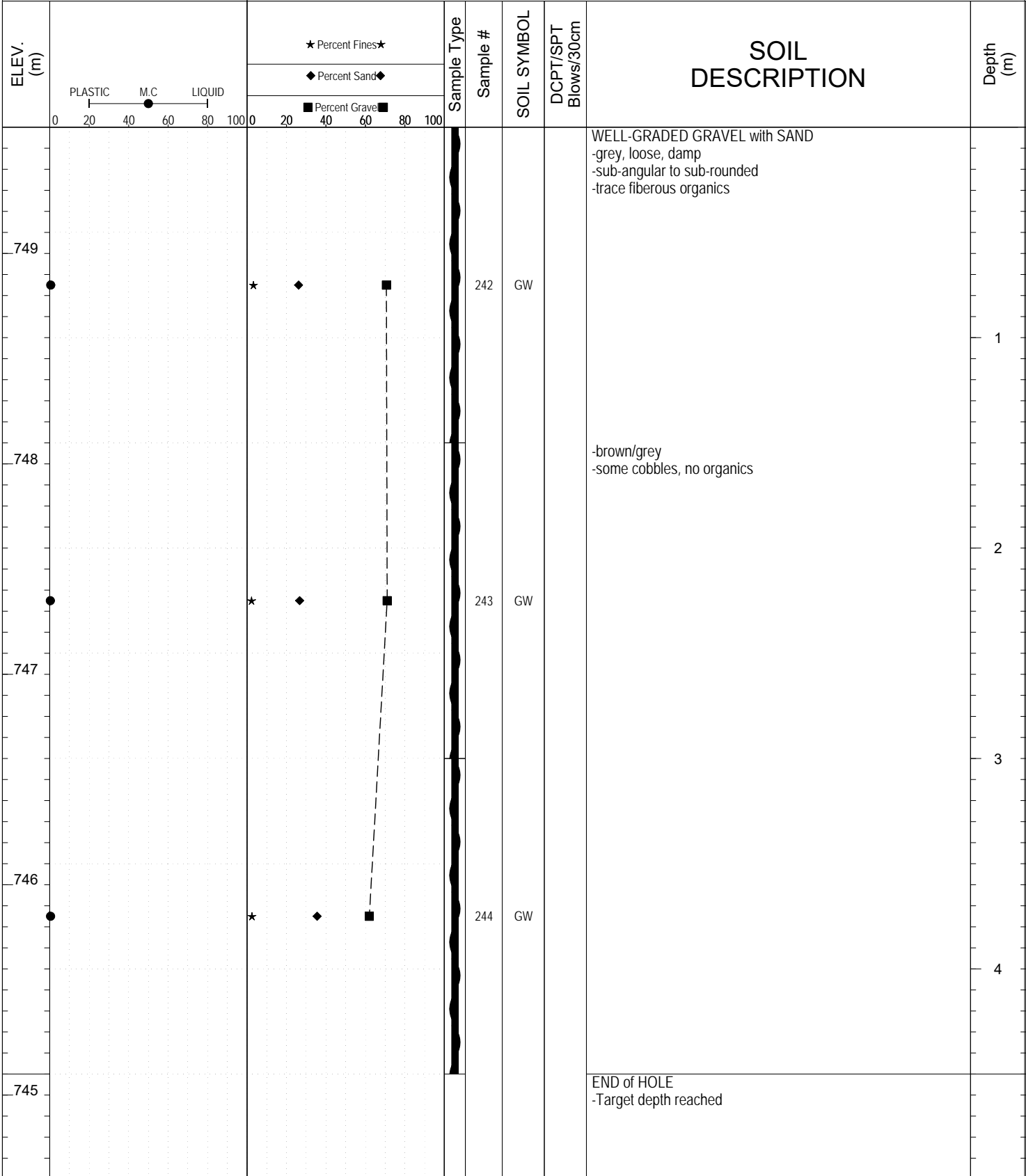


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5551

2015 Corridor Drilling, km 1407.3 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6737243.5m E491923.1m ELEVATION: 749.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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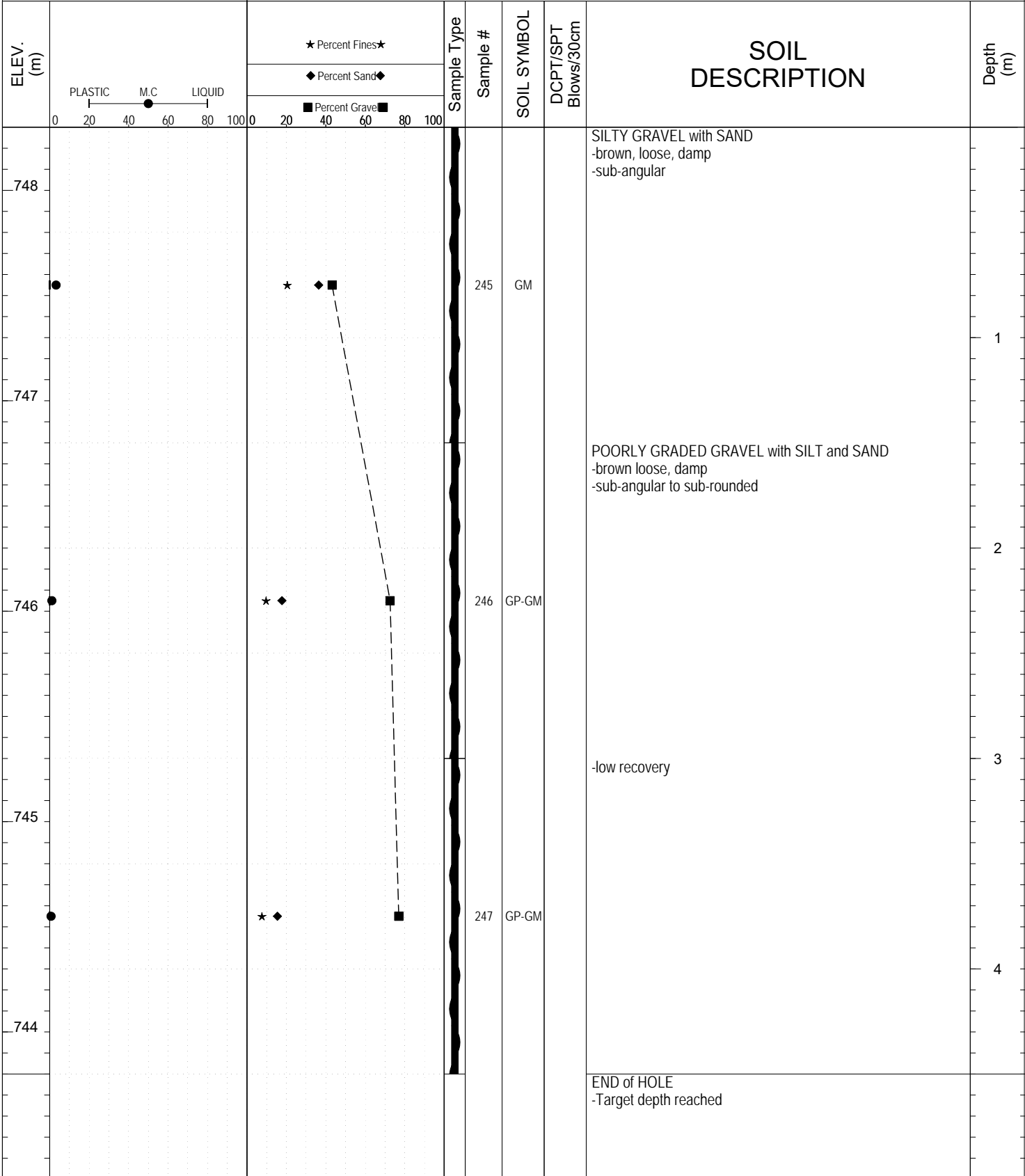
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5552

2015 Corridor Drilling, km 1409.2 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6737384.9m E491857.2m ELEVATION: 748.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
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LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: _____ Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5553				
		2015 Corridor Drilling, km 1409.4 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6737620.1m E491703m		ELEVATION: 750.3m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC 0 20 40 60 80 100 M.C. 45 LIQUID 80	0 20 40 60 80 100						
750				248	ML		SANDY SILT -brown, damp, loose -sub-angular to sub-rounded	1
749								
748				249	GM		SILTY GRAVEL with SAND -brown, damp, loose -sub-angular to sub-rounded -trace cobbles	2
747								
746				250	GM		-sub-rounded	3
								4
							END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5554				
		2015 Corridor Drilling, km 1410.3 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6737764.1m E491579.3m		ELEVATION: 749.2m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
749				251	GP		POORLY GRADED GRAVEL with SAND -brown, loose, damp -sub-angular to sub-rounded -trace cobbles	1
748								2
747				252	GP			3
746								4
745				253	GP			
							END OF HOLE -Target depth reached	

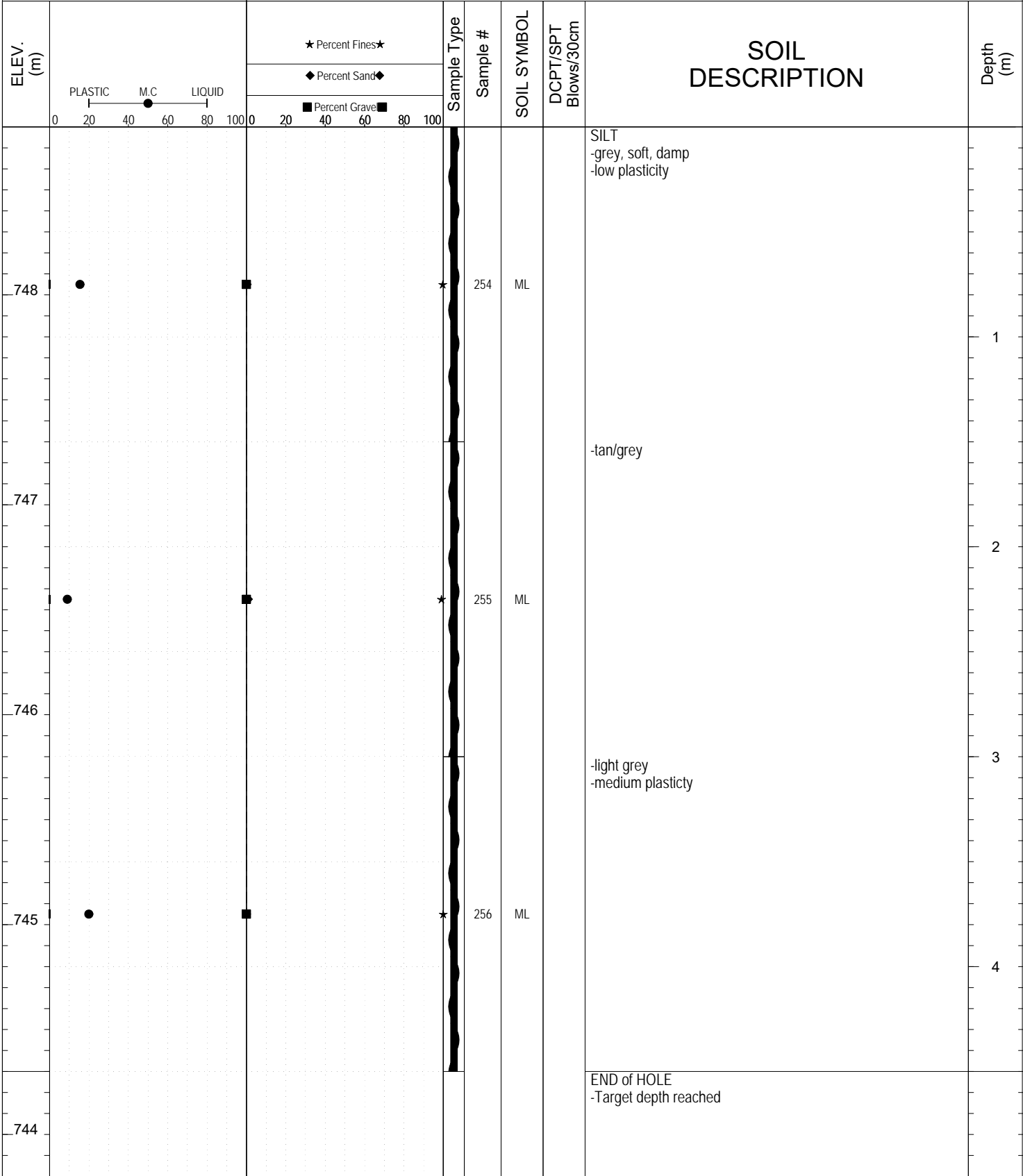


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5555

2015 Corridor Drilling, km 1411.1 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6737849.6m E491487m ELEVATION: 748.8m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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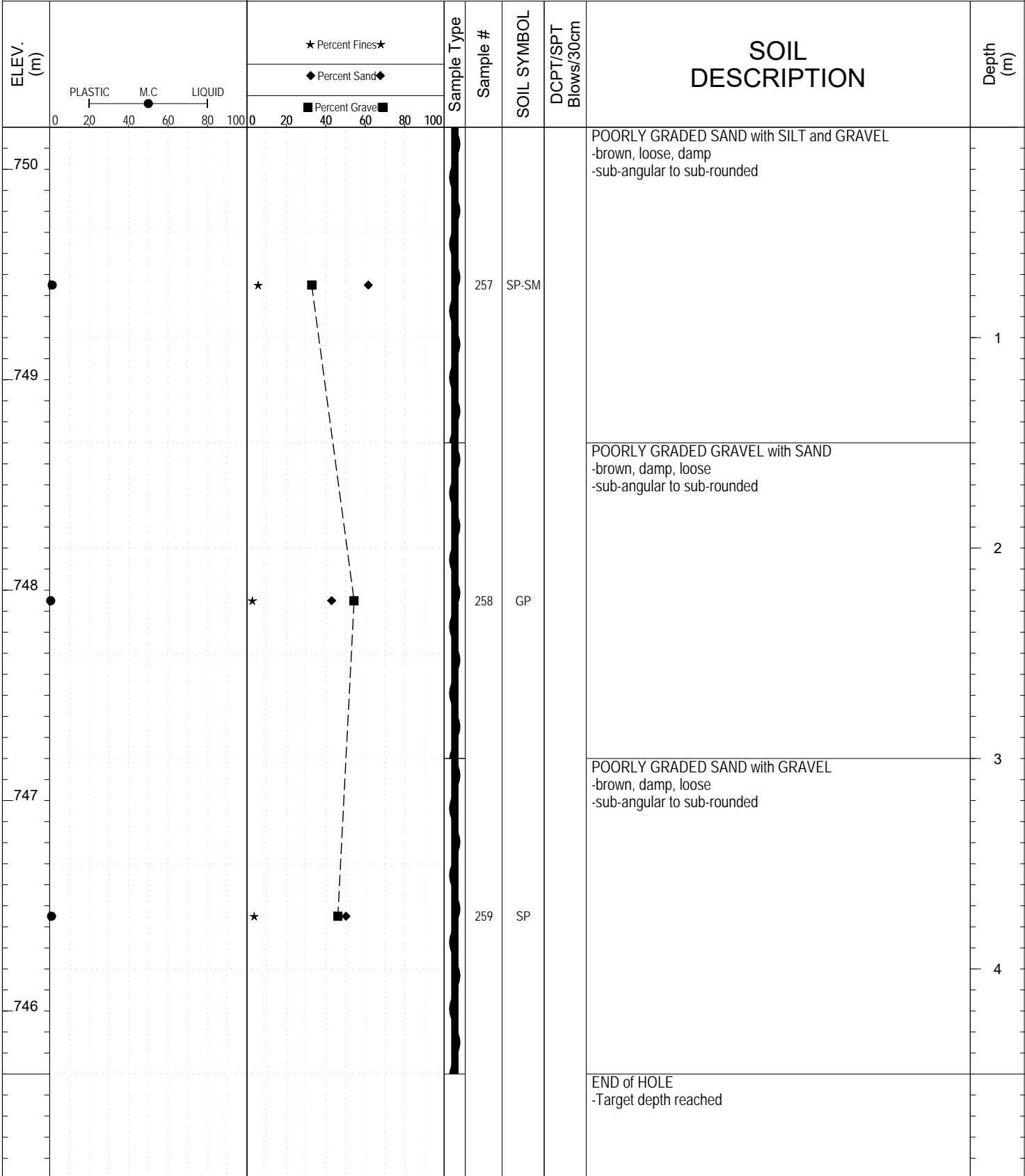
LOGGED BY: Dave Lorenzi Termination Depth: 4.5m
 COMPILED BY: R.Kennedy-Kuiper Complete: 9/26/2015
 REVIEWED BY: R.Stilwell Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5556

2015 Corridor Drilling, km 1411.9 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6738037.4m E491315.3m ELEVATION: 750.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
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LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5557				
MARL M4CT		2015 Corridor Drilling, km 1412.2 RHS		PROJECT NO: 552 202101 0908 0661-3				
SAMPLE TYPE		Coordinates: Z8V N6738052.7m E491324.7m		ELEVATION: 747.1m				
<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE								
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100 0 20 40 60 80 100							
747							POORLY GRADED SAND with SILT and GRAVEL -brown, loose, damp -sub-angular to sub-rounded	
746				260	SP-SM			1
745				261	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -grey, loose, moist -sub-angular to sub-rounded	2
744				262	SM		SILTY SAND with GRAVEL -grey, loose, moist -sub-angular to sub-rounded	3
743							END of HOLE -Target depth reached	4

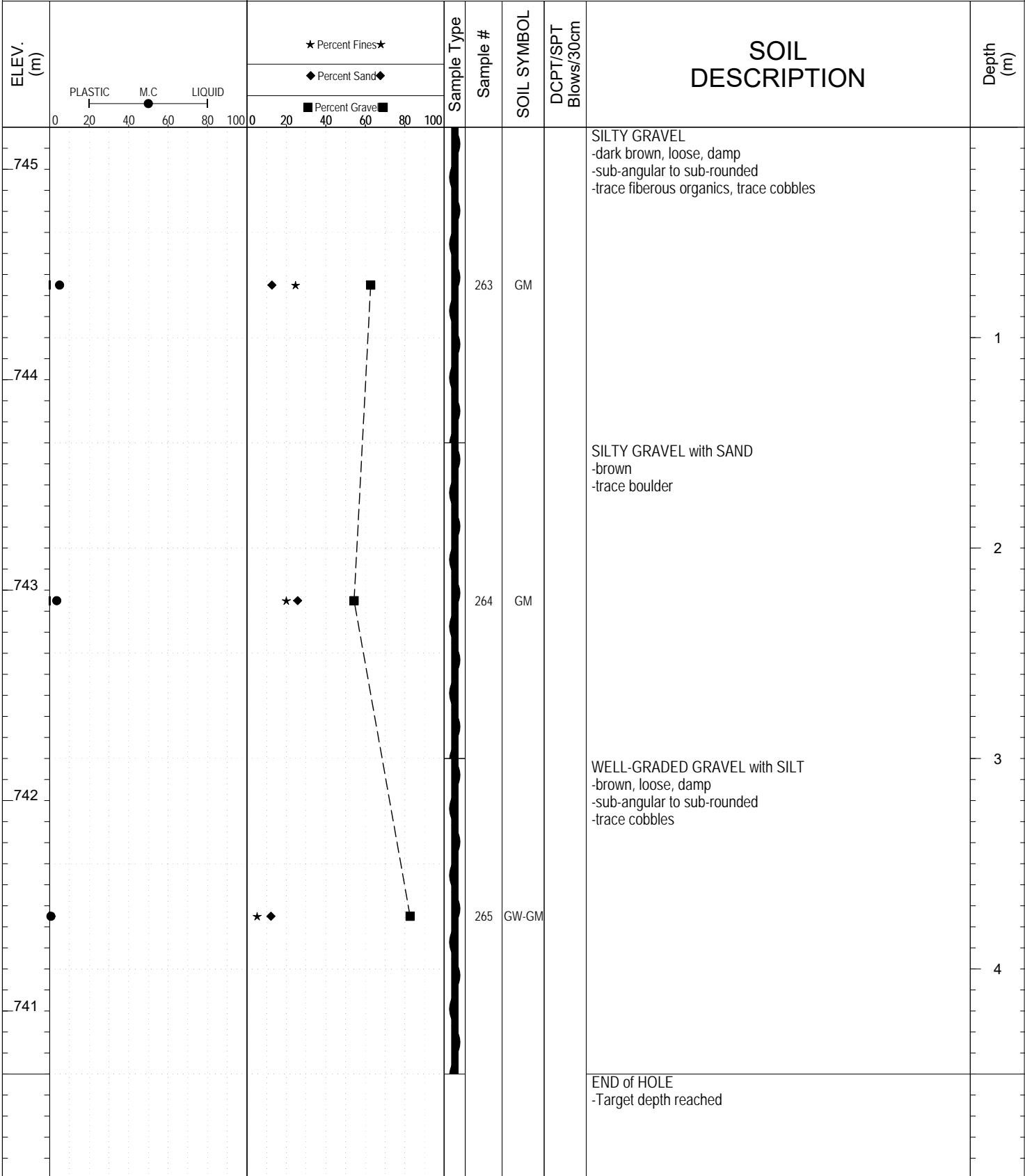


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5558

2015 Corridor Drilling, km 1414.2 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6738813.1m E491034.4m ELEVATION: 745.2m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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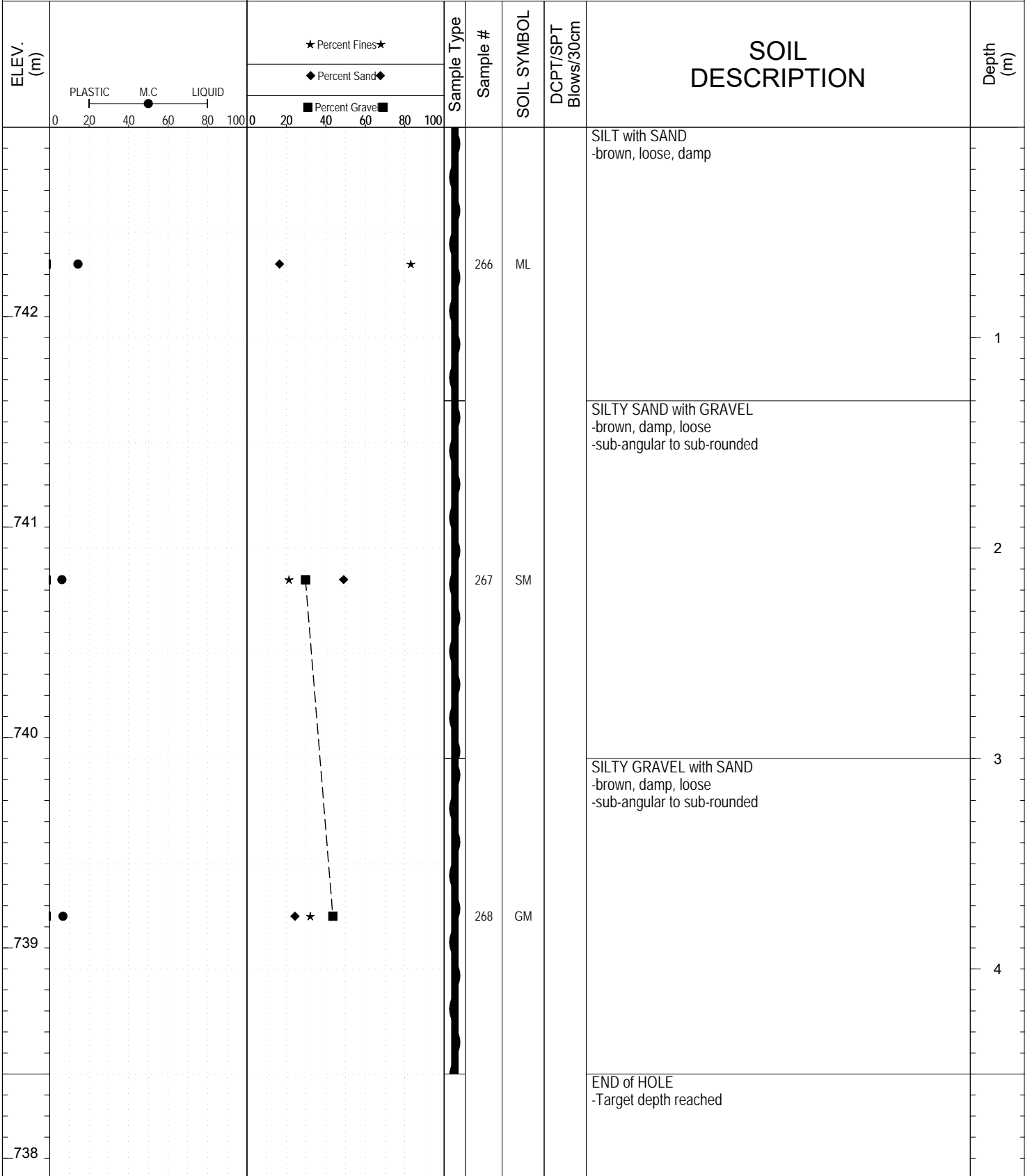
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5559

2015 Corridor Drilling, km 1414.95 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6738826.8m E491066.2m ELEVATION: 742.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5560

2015 Corridor Drilling, km 1415.3 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6739008.7m E490982m ELEVATION: 739.1m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
739					269	GM		SILTY GRAVEL with SAND -grey, loose, damp -sub-angular to sub-rounded	1
738									2
737								END of HOLE -Refusal due to rock	3
736									4
735									



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LOGGED BY: Dave Lorenzi Termination Depth: 1.5m
 COMPILED BY: M. Jubinville Complete: 9/26/2015
 REVIEWED BY: R. Stilwell Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5561				
		2015 Corridor Drilling, km 1415.4 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6739183.3m E490938.6m		ELEVATION: 734.9m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
734				270	GM		SILTY GRAVEL with SAND -brown, loose, damp -sub-angular to sub-rounded	1
733				271	GW-GM		WELL-GRADED GRAVEL with SILT and SAND -brown, loose, damp -sub-angular to sub-rounded -trace cobbles	2
732				272	GP		POORLY GRADED GRAVEL with SAND -brown, loose, damp -sub-angular to sub-rounded -trace cobbles	3
731							END of HOLE -Target depth reached	4
730								



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5562				
		2015 Corridor Drilling, km 1415.7 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6739183.3m E490938.6m		ELEVATION: 734.9m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
734				273	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -brown, loose, damp -sub-angular to sub-rounded -trace fibrous organics, trace cobbles	1
733				274	GP		POORLY GRADED GRAVEL with SAND -grey/brown -no organics or cobbles	2
732								3
731				275	GP			4
730							END of HOLE -Target depth reached	

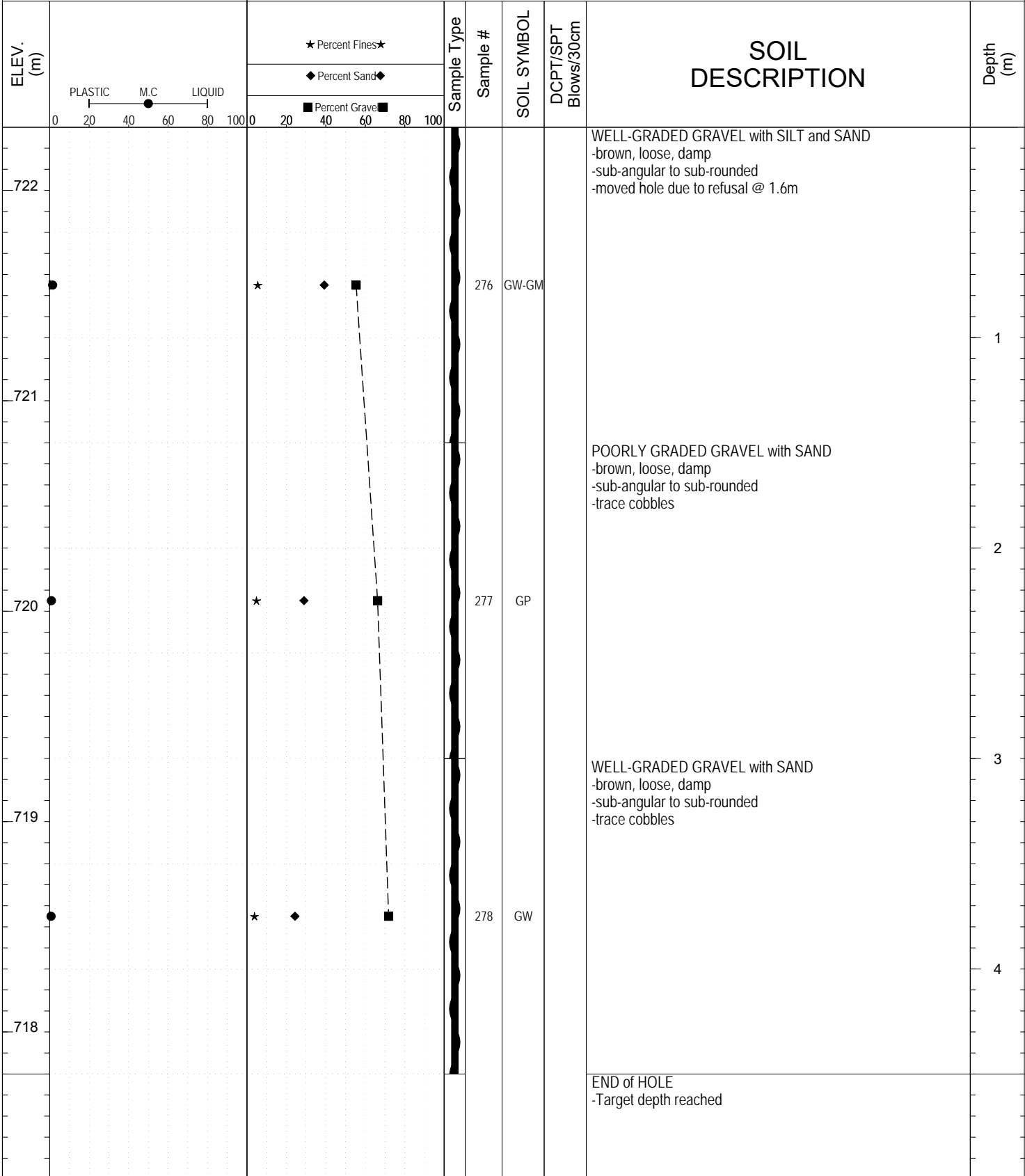


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5563

2015 Corridor Drilling, km 1415.9 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6740531.9m E490391.7m ELEVATION: 722.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5564

2015 Corridor Drilling, km 1416.2 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6740531.9m E490391.7m ELEVATION: 722.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■ 0 20 40 60 80 100	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
722						NO SAMPLE (refusal due to rock)	1
721							2
720							3
719							4
718							



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LOGGED BY: Dave Lorenzi	Termination Depth: 1m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5565

2015 Corridor Drilling, km 1416.4 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6741123.5m E489938.8m ELEVATION: 713.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C.	LIQUID						
713					279	GM		SAND, some SILT and GRAVEL, trace ORGANICS brown, loose, damp, f-c sand, SA-SR gravel	1
712					280	GM		SILTY GRAVEL -Brown, damp, loose -Trace cobbles, trace organics	2
711								-No cobbles or organics	3
710					281	GM			4
709								END of HOLE -Target depth reached	



Highways and Public Works
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LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5566

2015 Corridor Drilling, km 1416.7 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6741123.5m E489938.8m ELEVATION: 713.6m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
713					284	ML		SILT, trace gravel, trace sand -light brown, soft, damp -sub-angular to sub-rounded -trace organics	1
712					282	GM		GRAVEL, some silt, some sand -tan, loose, damp -sub-angular to sub-rounded	2
711								-GRAVEL, some sand, trace silt -brown, loose, damp -sub-angular to sub-rounded	3
710					283	GP			4
709								END of HOLE -target depth reached	



Highways and Public Works
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LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5567

2015 Corridor Drilling, km 1417.7 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6741455.3m E489521.4m ELEVATION: 713.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C	LIQUID						
713					284	GP		POORLY GRADED GRAVEL with SAND -brown, damp, loose -sub-angular to sub-rounded	1
712					285	GP-GM		POORLY GRADED GRAVEL with SILT and SAND	2
711								SILTY GRAVEL with SAND -Brown, damp, loose	3
710					286	GM			4
709								END of HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5568					
		2015 Corridor Drilling, km 1418.0 RHS		PROJECT NO: 552 202101 0908 0661-3					
MARL M4CT		Coordinates: Z8V N6741625.8m E489149.8m		ELEVATION: 712.4m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE							
ELEV. (m)		★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
712					287	GW		WELL-GRADED GRAVEL with SAND -brown, damp, loose -sub-angular to sub-rounded -trace fibrous organics	1
711								WELL-GRADED GRAVEL with SILT and SAND -no organics	2
710					288	GW-GM			
709								WELL-GRADED GRAVEL with SAND	3
708					289	GW			4
								END of HOLE -Target depth reached	



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Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: M. Jubinville	Complete: 9/26/2015
REVIEWED BY: R. Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5569					
		2015 Corridor Drilling, km 1418.5 RHS		PROJECT NO: 552 202101 0908 0661-3					
MARL M4CT		Coordinates: Z8V N6741442.4m E489471.4m		ELEVATION: 717.9m					
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE			
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100								
717					290	GP		POORLY GRADED GRAVEL with SAND -brown, loose, damp -sub-angular to sub-rounded	1
716					291	SM		SILTY SAND with GRAVEL -tan, loose, damp -sub-angular to sub-rounded -trace cobbles	2
715								SILTY GRAVEL with SAND -grey, loose, damp -sub-angular to sub-rounded	3
714					292	GM			4
713								END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 882-5570				
		2015 Corridor Drilling, km 1421.65 RHS		PROJECT NO: 552 202101 0908 0661-3				
MARL M4CT		Coordinates: Z8V N6741655.9m E488954m		ELEVATION: 713.9m				
SAMPLE TYPE	<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
713				293	SM		SILTY SAND -tan/brown, loose, damp	1
712								2
711				294	SP-SM		POORLY GRADED SAND with SILT and GRAVEL -brown/grey, loose, damp -sub-angular to sub-rounded	3
710				295	SP-SM		-brown/tan	4
709							END OF HOLE -Target depth reached	

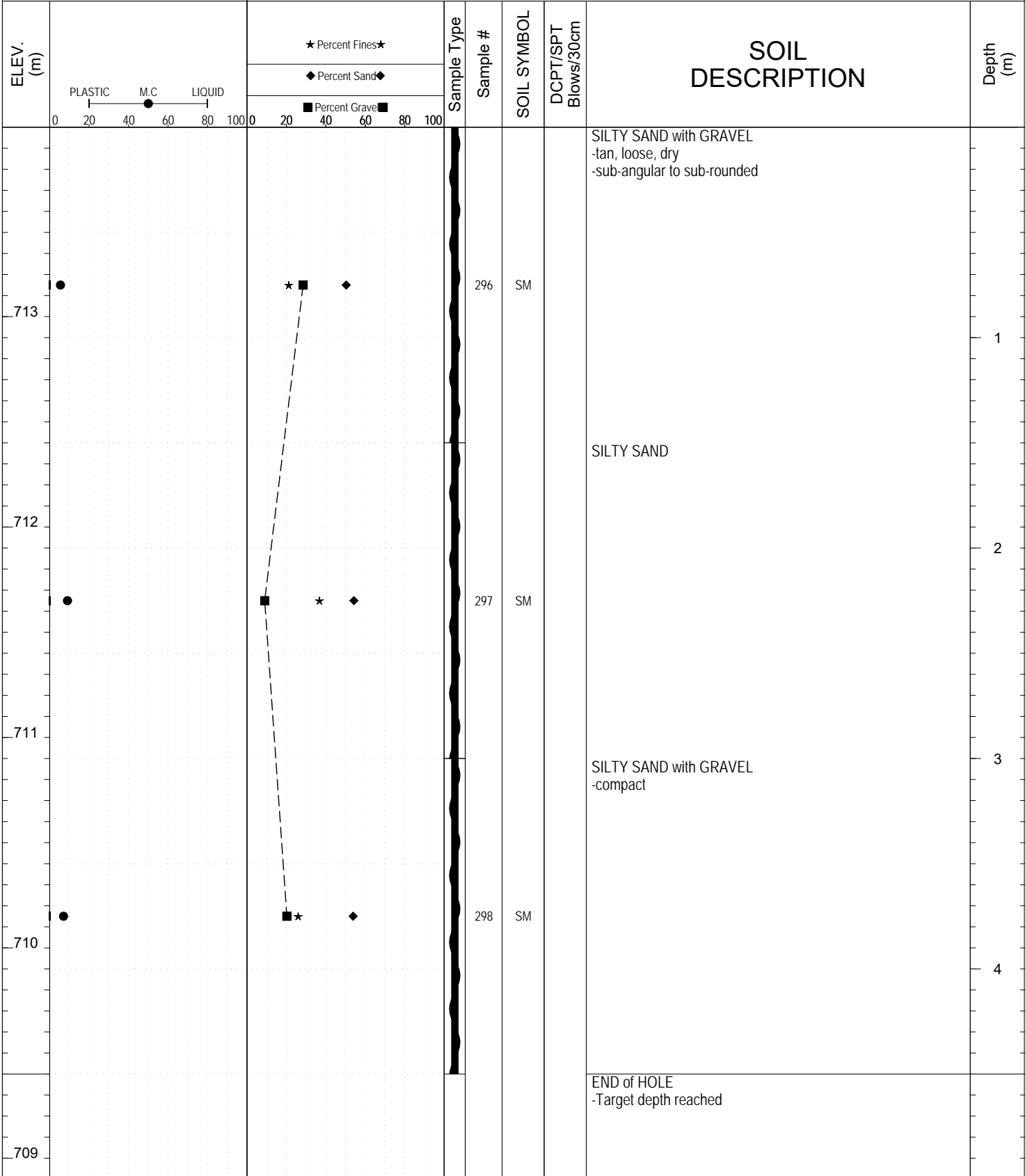


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5571

2015 Corridor Drilling, km 1428.65 RHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6741655.9m E488954m ELEVATION: 713.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



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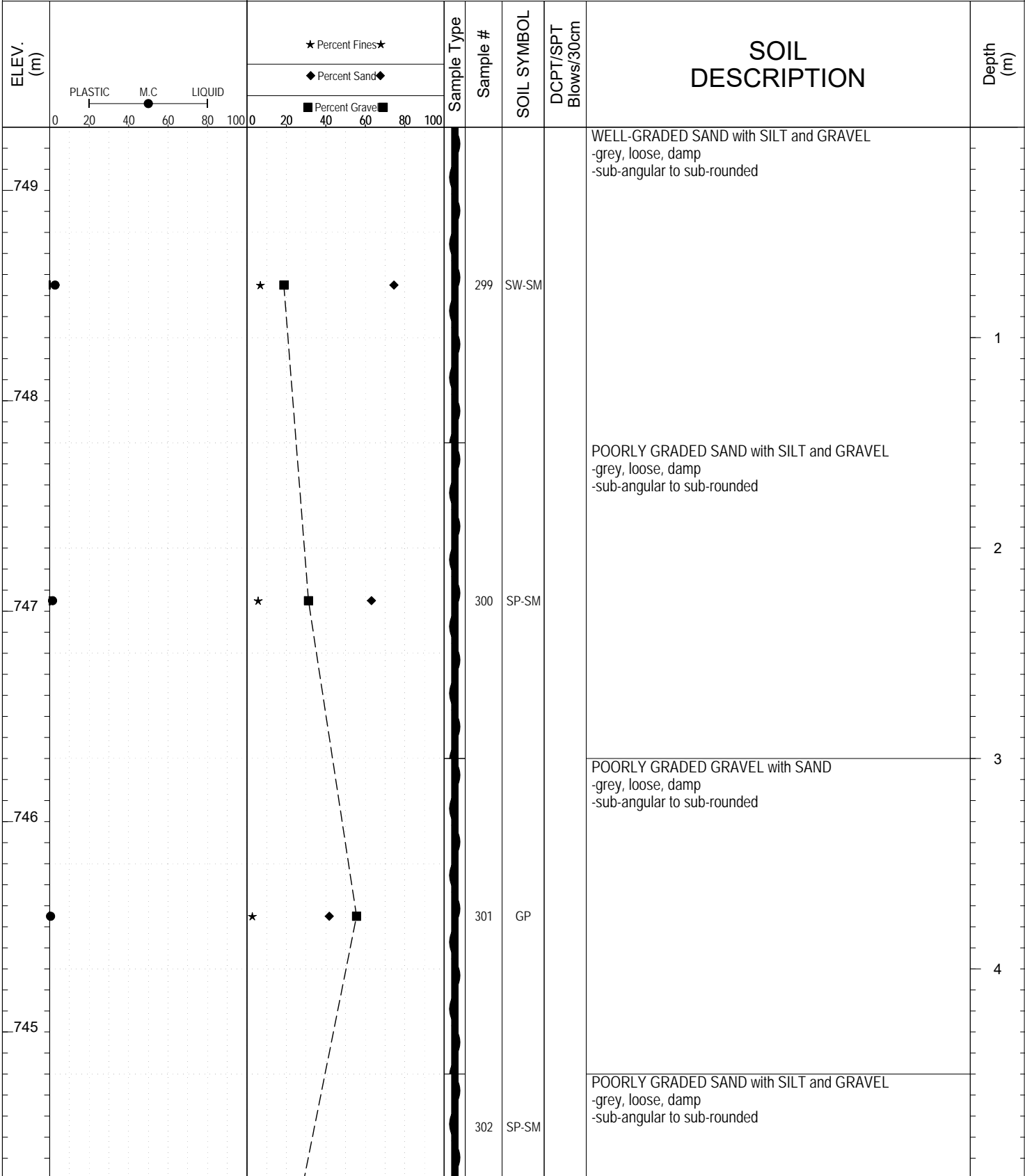
LOGGED BY: Dave Lorenzi	Termination Depth: 4.5m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5572

2015 Corridor Drilling, km 1411.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6737898.7m E491432.8m ELEVATION: 749.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi Termination Depth: 6m
 COMPILED BY: R.Kennedy-Kuiper Complete: 9/26/2015
 REVIEWED BY: R.Stilwell Pit #: Page 1 of 2

SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 882-5572

2015 Corridor Drilling, km 1411.9 LHS PROJECT NO: 552 202101 0908 0661-3

MARL M4CT Coordinates: Z8V N6737898.7m E491432.8m ELEVATION: 749.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)									
	PLASTIC	M.C	LIQUID															
744	0	20	40	60	80	100	0	20	40	60	80	100		302	SP-SM		POORLY GRADED SAND with SILT and GRAVEL -grey, loose, damp -sub-angular to sub-rounded	
743																	END of HOLE -Target depth reached	6
742																		7
741																		8
740																		9



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi	Termination Depth: 6m
COMPILED BY: R.Kennedy-Kuiper	Complete: 9/26/2015
REVIEWED BY: R.Stilwell	Pit #: Page 2 of 2

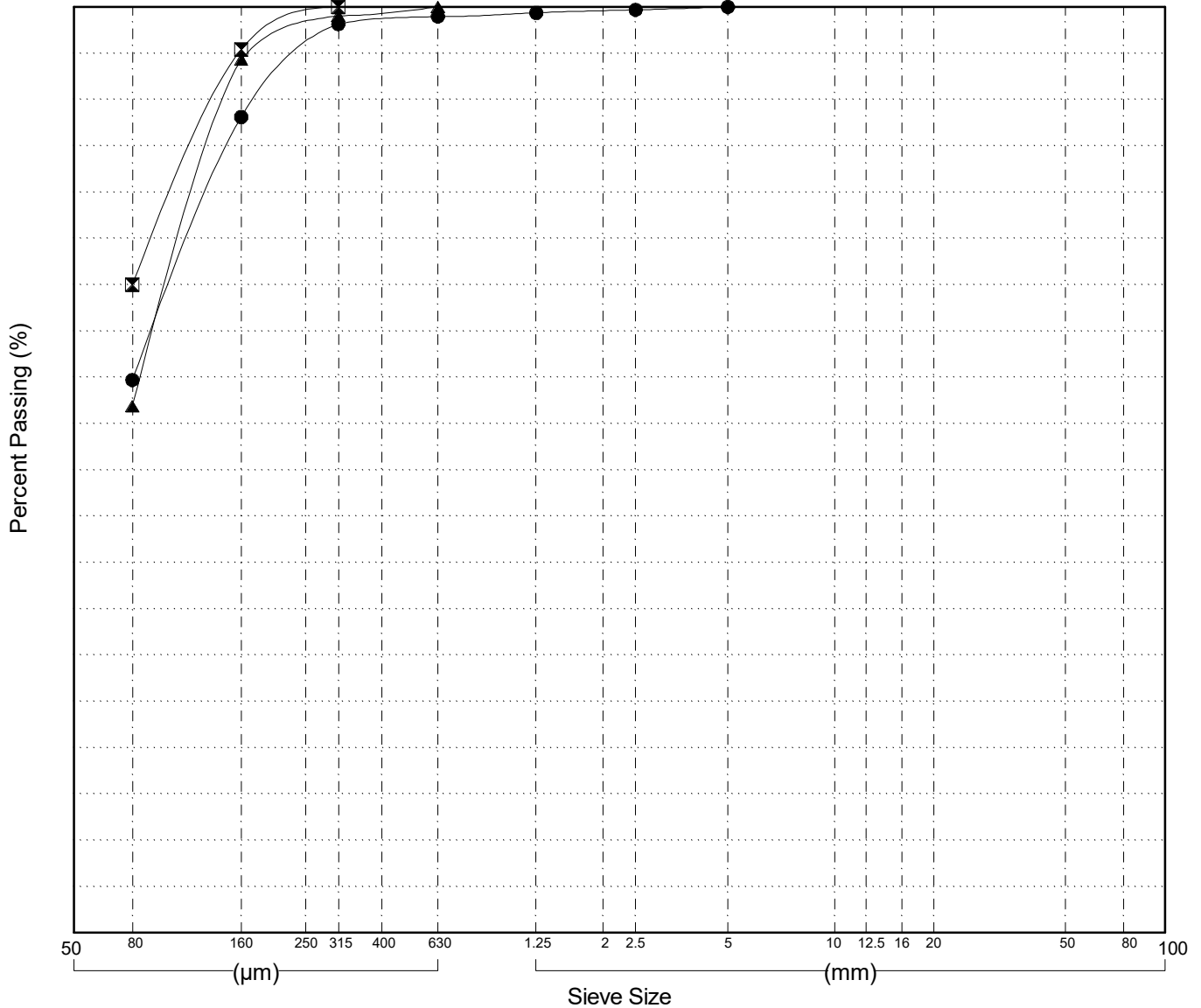
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5470
	km 1436.4 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6734251.5m E493157.8m	ELEVATION: 755.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 1	2015-355	0.0 to 1.5	SANDY SILT(ML)	9.0	NP	NP	NP		
☒ 2	2015-356	1.5 to 3.0	SILT with SAND(ML)	14.0	NP	NP	NP		
▲ 3	2015-357	3.0 to 4.5	SANDY SILT(ML)	6.2	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 1	2015-355	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.4	99.0	98.1	88.1	59.7	0.0	40.3	59.7		
☒ 2	2015-356	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.4	70.0	0.0	30.0	70.0		
▲ 3	2015-357	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	94.3	56.9	0.0	43.1	56.9		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



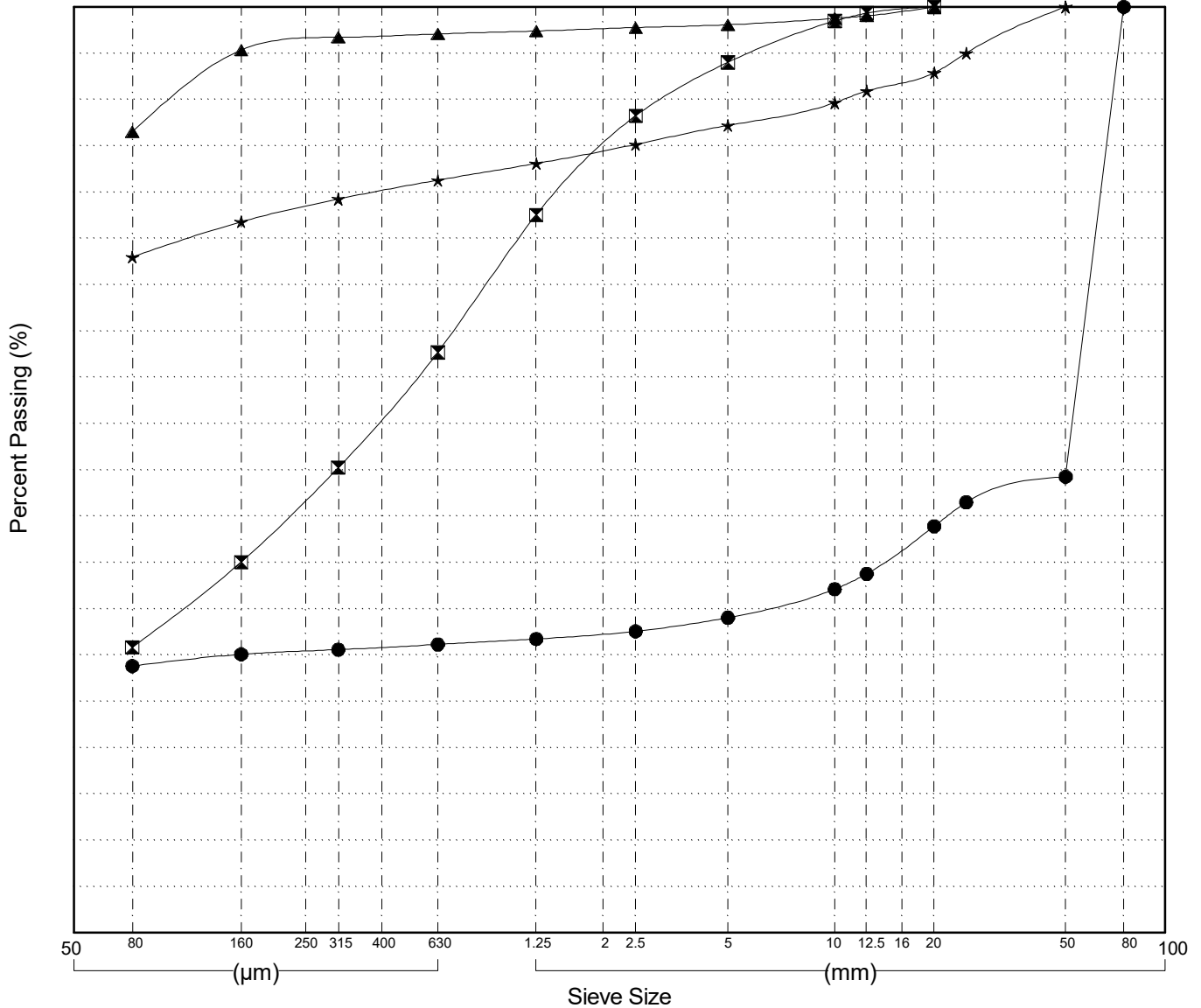
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5471-RB
	km 1435.1 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6733801.5m E494305.6m	ELEVATION: 741.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 4	2015-358	0.0 to 0.5	SILTY GRAVEL(GM)	8.1	NP	NP	NP		
☒ 5	2015-359	0.0 to 1.1	SILTY SAND(SM)	6.7	NP	NP	NP		
▲ 6	2015-360	1.1 to 3.0	SILT(ML)	10.2	NP	NP	NP		
★ 7A	2015-361	3.0 to 4.5	SILT with SAND(ML)	11.4	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)																% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay		
● 4	2015-358	100.0	100.0	100.0	49.3	46.5	43.9	38.8	37.1	34.0	32.6	31.7	31.1	30.6	30.1	28.8	66.0	5.2	28.8			
☒ 5	2015-359	100.0	100.0	100.0	100.0	100.0	99.3	98.5	94.0	88.2	77.5	62.7	50.2	40.0	30.8	6.0	63.2	30.8				
▲ 6	2015-360	100.0	100.0	100.0	100.0	100.0	99.0	98.8	98.1	97.8	97.4	97.1	96.7	95.3	86.5	1.9	11.5	86.5				
★ 7A	2015-361	100.0	100.0	100.0	95.0	92.9	90.9	89.7	87.2	85.1	83.1	81.3	79.3	76.8	73.0	12.8	14.2	73.0				

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



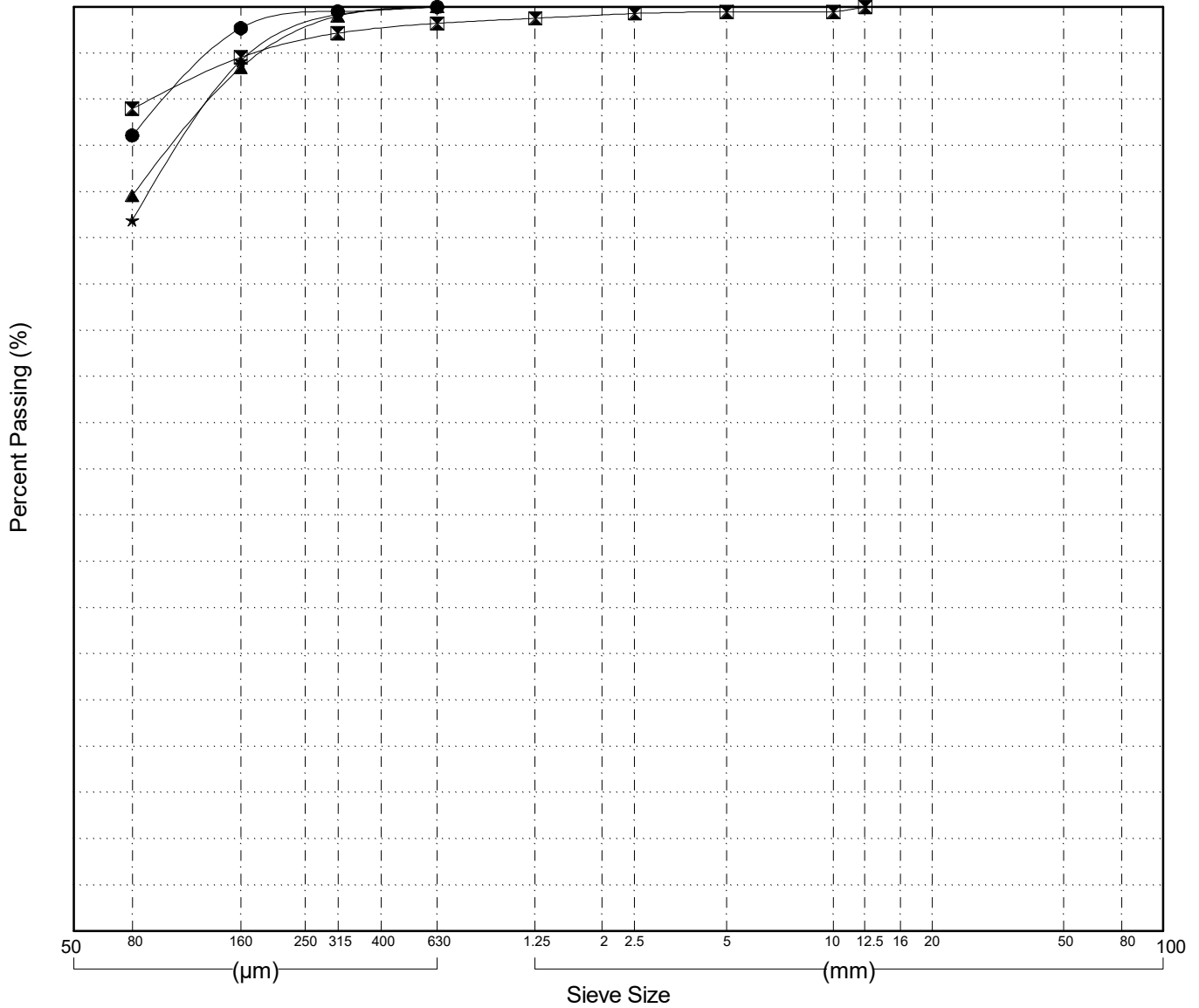
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5473
	km 1434.6 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6733608.1m E494484.9m	ELEVATION: 736.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 7B	2015-362	0.0 to 1.5	SILT (ML)	7.9	NP	NP	NP		
☒ 8	2015-363	1.5 to 3.0	SILT (ML)	7.9	NP	NP	NP		
▲ 9	2015-364	3.0 to 4.5	SILT with SAND (ML)	9.5	NP	NP	NP		
★ 10	2015-365	4.5 to 6.0	SILT with SAND (ML)	6.8	NP	NP	NP		

Field#	Lab#	% PASSING																% Breakdown					
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay			
● 7B	2015-362	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	97.7	86.1	0.0	13.9	86.1
☒ 8	2015-363	100.0	100.0	100.0	100.0	100.0	100.0	99.5	99.5	99.3	98.8	98.2	97.2	94.5	89.0			0.5	10.5	89.0	0.5	10.5	89.0
▲ 9	2015-364	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	93.4	79.6		0.0	20.4	79.6	0.0	20.4	79.6
★ 10	2015-365	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	94.2	76.9		0.0	23.1	76.9	0.0	23.1	76.9

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



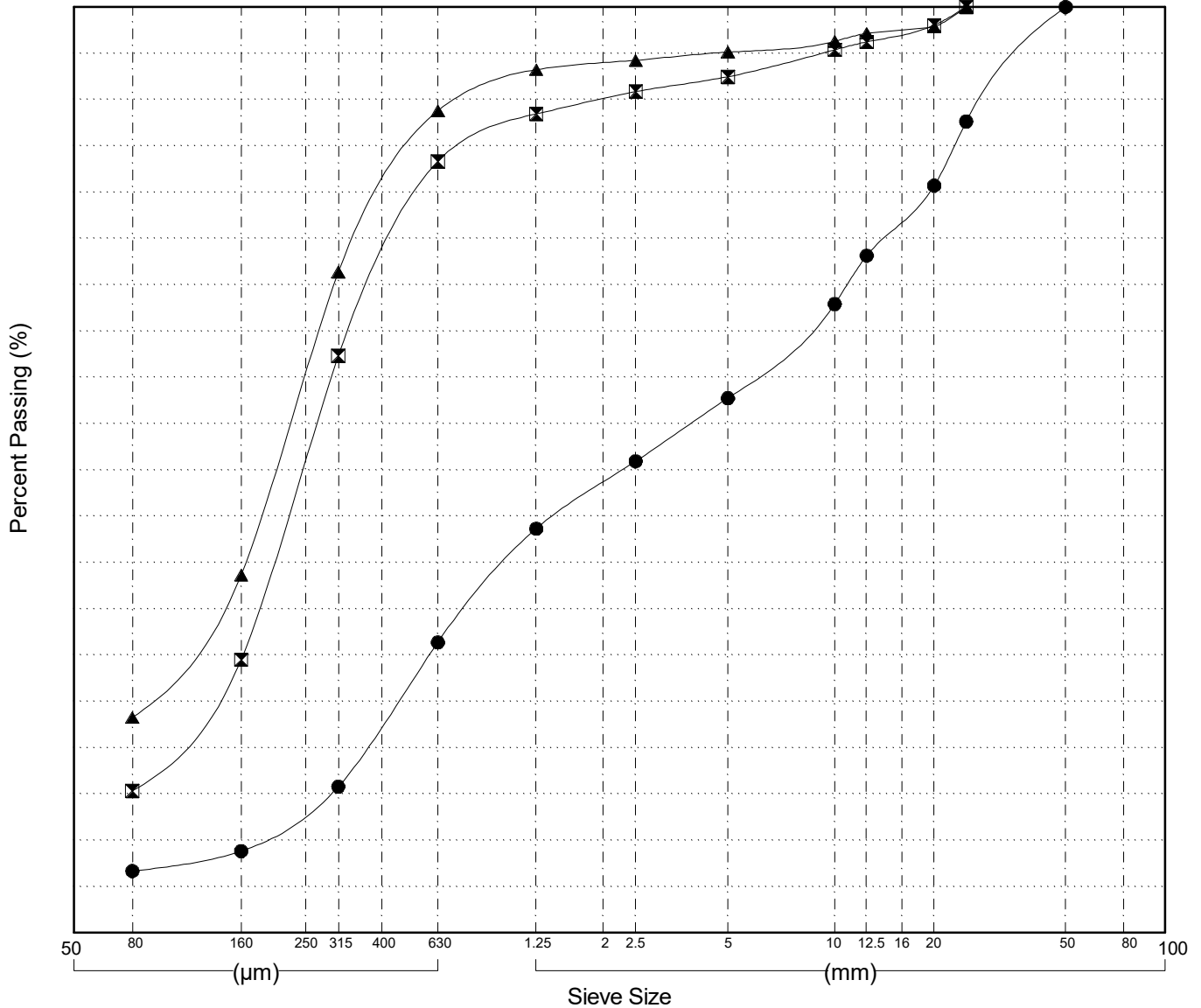
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5474-RA
	km 1436.95 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6734469.4m E492394m	ELEVATION: 758.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 12	2015-367	1.5 to 3.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	4.7	NP	NP	NP	0.3	31.2
☒ 13	2015-368	3.0 to 4.5	SILTY SAND(SM)	5.4	NP	NP	NP		
▲ 14	2015-369	4.5 to 6.0	SILTY SAND(SM)	5.1	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 12	2015-367	100.0	100.0	100.0	87.6	80.7	73.1	67.9	57.7	50.9	43.7	31.4	15.8	8.8	6.7	42.3	51.1	6.7	
☒ 13	2015-368	100.0	100.0	100.0	100.0	98.0	96.2	95.4	92.5	90.8	88.4	83.3	62.3	29.5	15.3	7.5	77.1	15.3	
▲ 14	2015-369	100.0	100.0	100.0	100.0	97.8	97.1	96.3	95.1	94.2	93.2	88.8	71.4	38.6	23.2	4.9	71.9	23.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



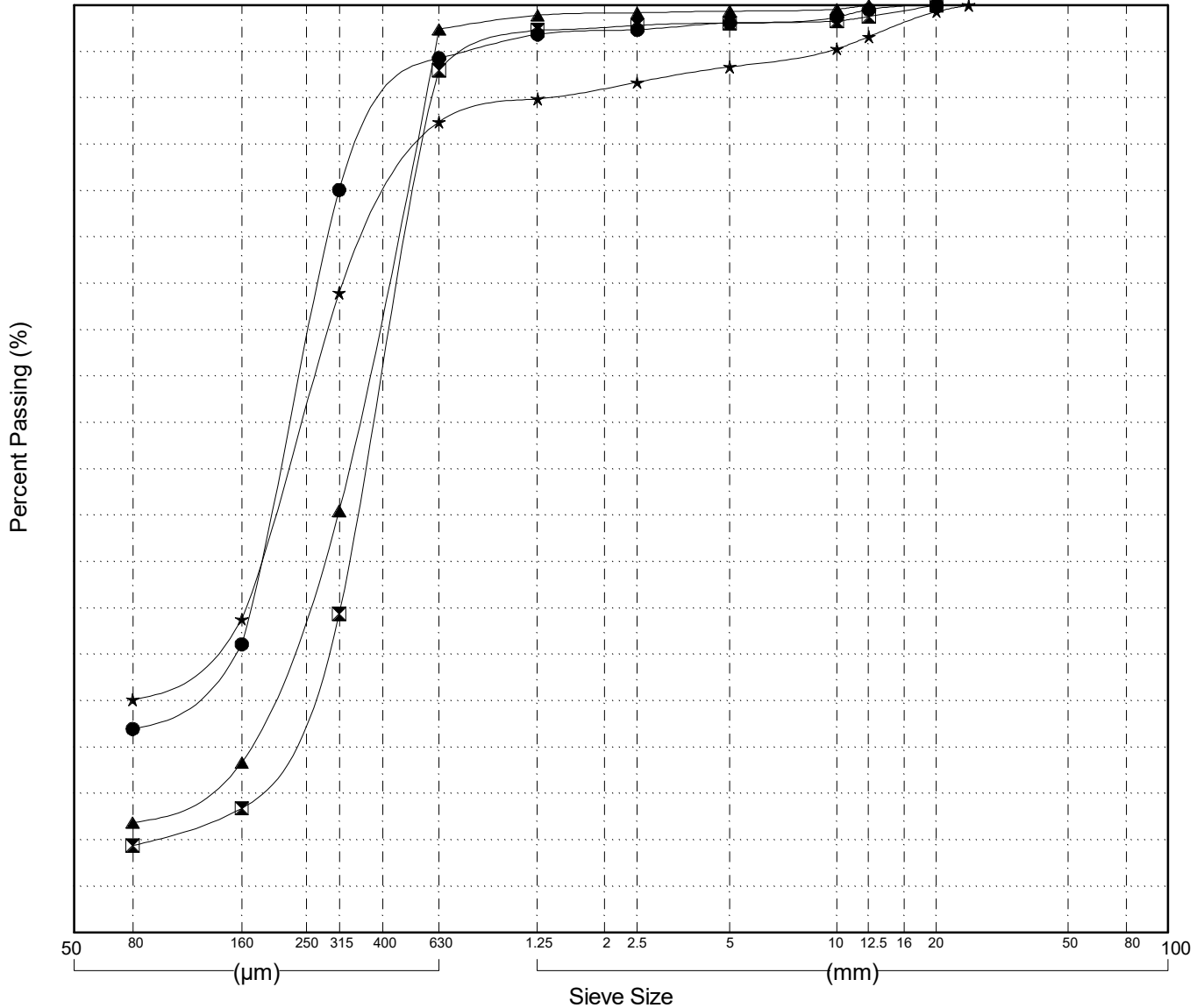
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5476
	km 1436.8 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6734289.8m E492869.2m	ELEVATION: 752.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 15	2015-370	0.0 to 1.5	SILTY SAND(SM)	3.3	NP	NP	NP		
☒ 16	2015-371	1.5 to 3.0	POORLY GRADED SAND with SILT(SP-SM)	1.5	NP	NP	NP	2.1	5.1
▲ 17	2015-372	3.0 to 4.5	WELL-GRADED SAND with SILT(SW-SM)	2.4	NP	NP	NP	2.0	6.4
★ 18	2015-373	4.5 to 5.7	SILTY SAND(SM)	5.9	NP	NP	NP		

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 15	2015-370	100.0	100.0	100.0	100.0	100.0	99.5	98.7	98.1	97.4	96.9	94.3	80.1	31.1	22.0	1.9	76.1	22.0	
☒ 16	2015-371	100.0	100.0	100.0	100.0	100.0	98.8	98.3	98.1	97.8	97.3	93.0	34.4	13.4	9.4	1.9	88.7	9.4	
▲ 17	2015-372	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.3	99.2	98.9	97.4	45.5	18.4	11.9	0.7	87.5	11.9	
★ 18	2015-373	100.0	100.0	100.0	100.0	99.3	96.6	95.3	93.3	91.7	89.9	87.4	69.0	33.8	25.1	6.7	68.2	25.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

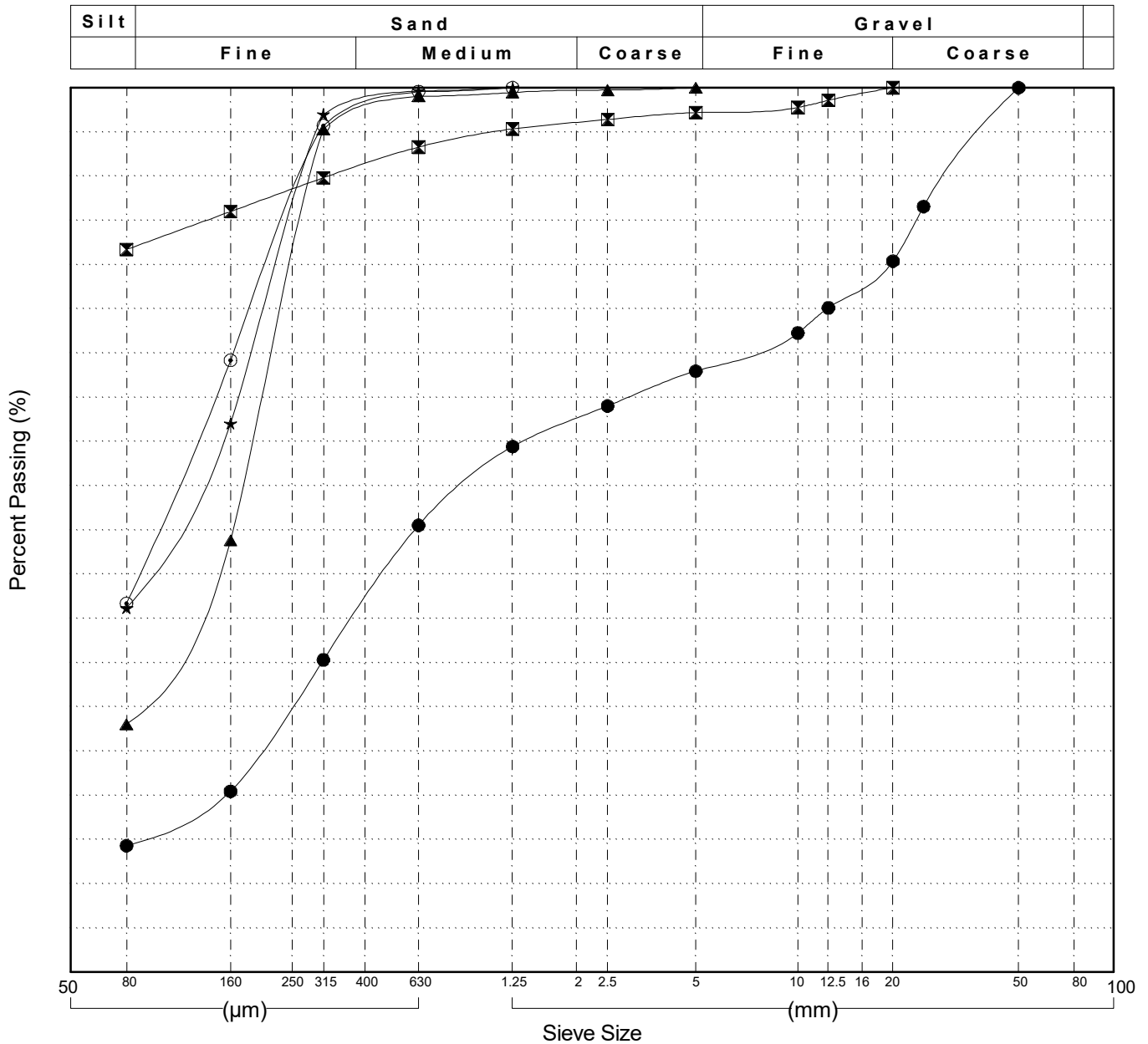


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5477
	km 1436.5 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6734251.5m E493157.8m	ELEVATION: 755.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 19	2015-374	0.0 to 1.0	SILTY SAND with GRAVEL(SM)	5.6	NP	NP	NP		
☒ 20	2015-375	1.0 to 1.5	SILT with SAND(ML)	14.6	NP	NP	NP		
▲ 21	2015-376	1.5 to 3.0	SILTY SAND(SM)	5.8	NP	NP	NP		
★ 22	2015-377	3.0 to 4.5	SILTY SAND(SM)	8.8	NP	NP	NP		
⊙ 23	2015-378	4.5 to 6.0	SILTY SAND(SM)	8.1	NP	NP	NP		

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 19	2015-374	100.0	100.0	100.0	86.6	80.4	75.1	72.3	68.0	64.0	59.4	50.5	35.3	20.4	14.3	32.0	53.7	14.3	
☒ 20	2015-375	100.0	100.0	100.0	100.0	100.0	98.6	97.8	97.2	96.4	95.3	93.3	89.8	86.0	81.7	2.8	15.5	81.7	
▲ 21	2015-376	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.4	99.0	95.3	48.8	28.0	0.0	72.0	28.0	
★ 22	2015-377	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	97.0	62.1	41.2	0.0	58.8	41.2	
⊙ 23	2015-378	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	95.7	69.2	41.7	0.0	58.3	41.7	



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

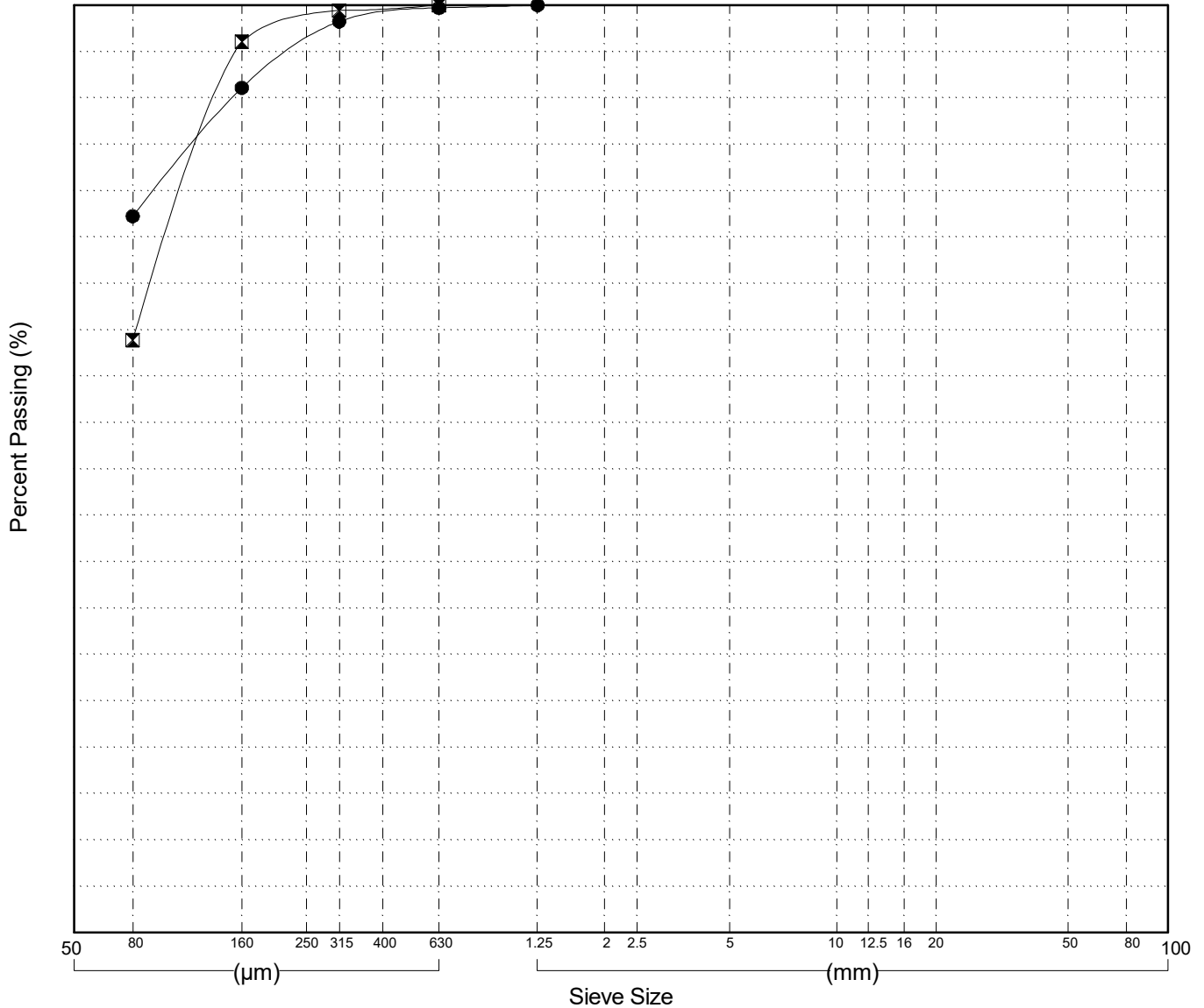
Pit #
Complete: 9/26/2015

GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5477
	km 1436.5 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6734251.5m E493157.8m	ELEVATION: 755.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 24	2015-379	6.0 to 7.5	SILT with SAND(ML)	19.0	NP	NP	NP													
☒ 25	2015-380	7.5 to 9.0	SANDY SILT(ML)	9.1	NP	NP	NP													
Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown				
● 24	2015-379	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.2	91.1	77.2	Gravel	Sand	Silt	Clay	
☒ 25	2015-380	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	96.1	63.9	0.0	22.8	77.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit #
Complete: 9/26/2015

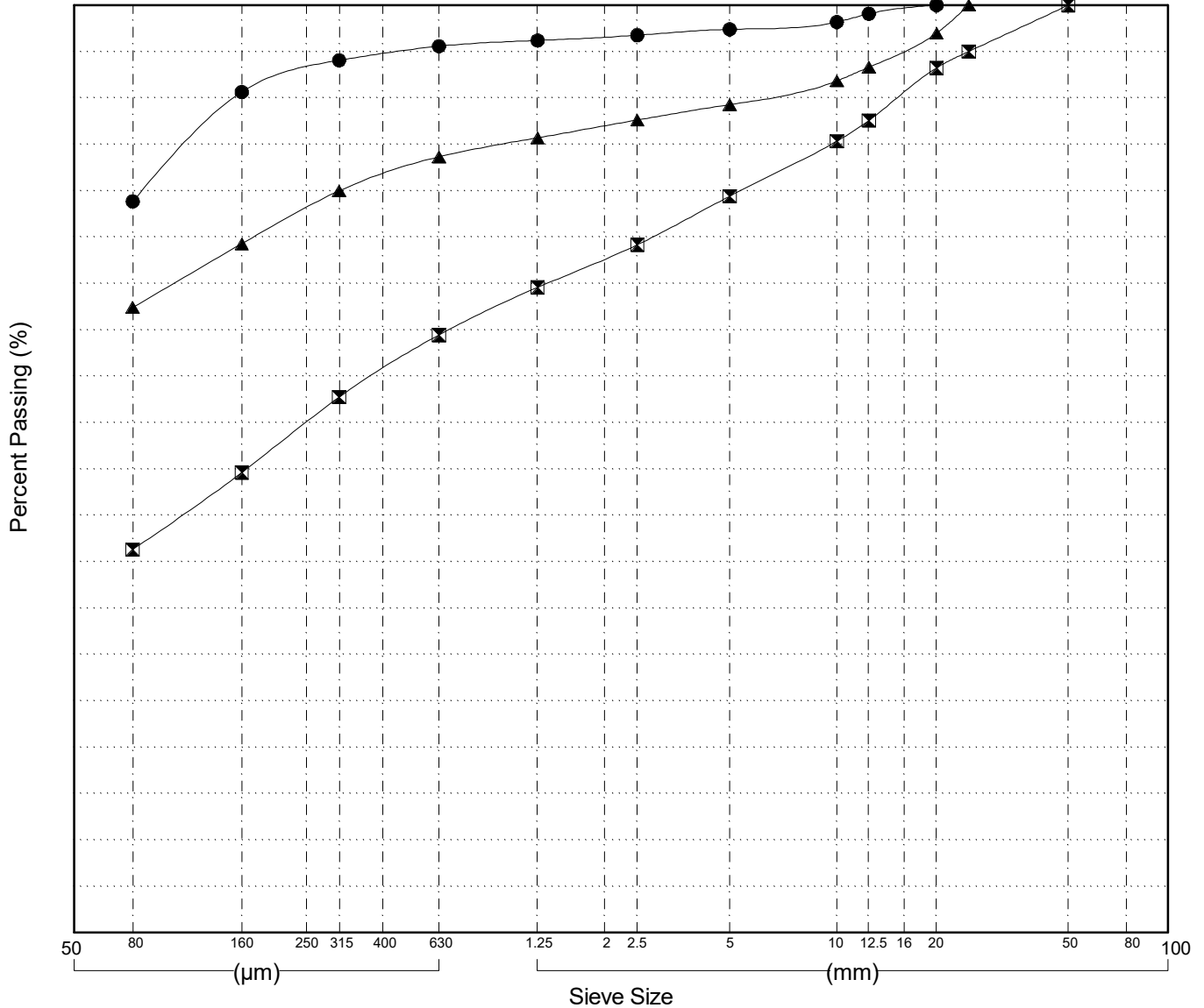
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5478B
	km 1435.9 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6734227m E493318.8m	ELEVATION: 756.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 26	2015-381	0.0 to 1.5	SILT with SAND(ML)	15.5	NP	NP	NP		
☒ 27	2015-382	1.5 to 2.5	SILTY SAND with GRAVEL(SM)	8.8	NP	NP	NP		
▲ 28A	2015-383	0.0 to 1.5	SANDY SILT(ML)	13.8	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 26	2015-381	100.0	100.0	100.0	100.0	100.0	99.1	98.2	97.4	96.8	96.2	95.6	94.0	90.6	78.9	2.6	18.5	78.9	
☒ 27	2015-382	100.0	100.0	100.0	95.0	93.2	87.6	85.3	79.4	74.2	69.6	64.4	57.7	49.6	41.3	20.6	38.1	41.3	
▲ 28A	2015-383	100.0	100.0	100.0	100.0	97.0	93.3	91.8	89.3	87.6	85.7	83.6	80.0	74.3	67.4	10.7	21.8	67.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



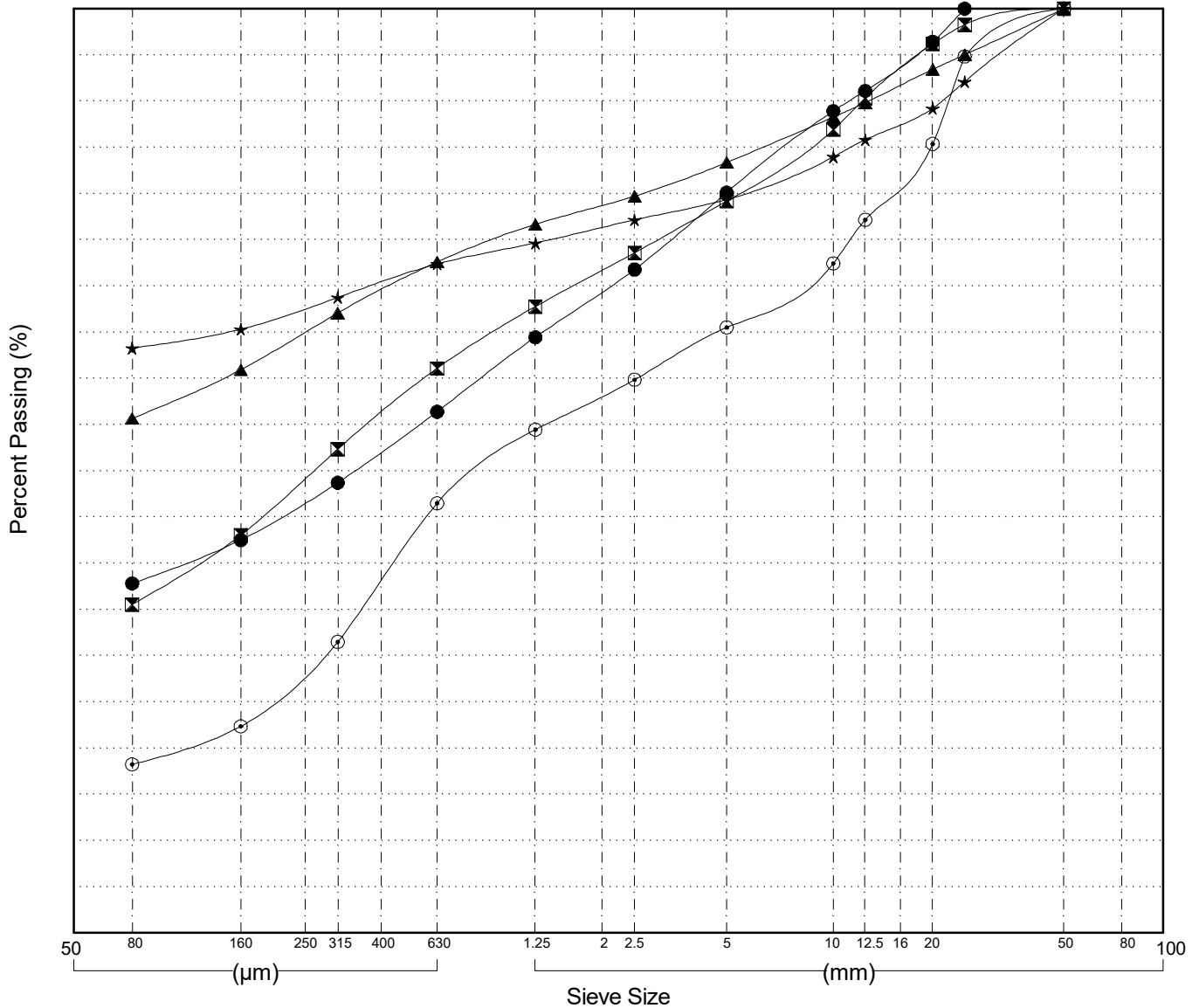
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5480-RB
	km 1433.3 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6729579.6m E495975.3m	ELEVATION: 750.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 29	2015-384	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	7.3	NP	NP	NP		
☒ 30	2015-385	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	6.5	NP	NP	NP		
▲ 31	2015-386	0.0 to 1.5		6.7					
★ 32	2015-387	0.0 to 0.8	GRAVELLY SILT with SAND(ML)	7.2	NP	NP	NP		
⊙ 33	2015-388	0.8 to 1.5	SILTY SAND with GRAVEL(SM)	3.3	NP	NP	NP		

Field#	Lab#	% PASSING															% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay	
● 29	2015-384	100.0	100.0	100.0	100.0	96.4	91.1	88.9	80.1	71.8	64.4	56.4	48.7	42.5	37.8	19.9	42.3	37.8		
☒ 30	2015-385	100.0	100.0	100.0	98.3	96.2	90.3	86.9	79.2	73.6	67.8	61.1	52.3	43.0	35.5	20.8	43.6	35.5		
▲ 31	2015-386	100.0	100.0	100.0	95.0	93.4	89.8	88.3	83.4	79.7	76.7	72.6	67.1	60.9	55.7	16.6	27.7	55.7		
★ 32	2015-387	100.0	100.0	100.0	92.1	89.2	85.8	84.0	79.3	77.1	74.6	72.4	68.7	65.3	63.3	20.7	16.1	63.3		
⊙ 33	2015-388	100.0	100.0	100.0	94.8	85.4	77.2	72.4	65.5	59.9	54.4	46.5	31.5	22.4	18.2	34.5	47.3	18.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

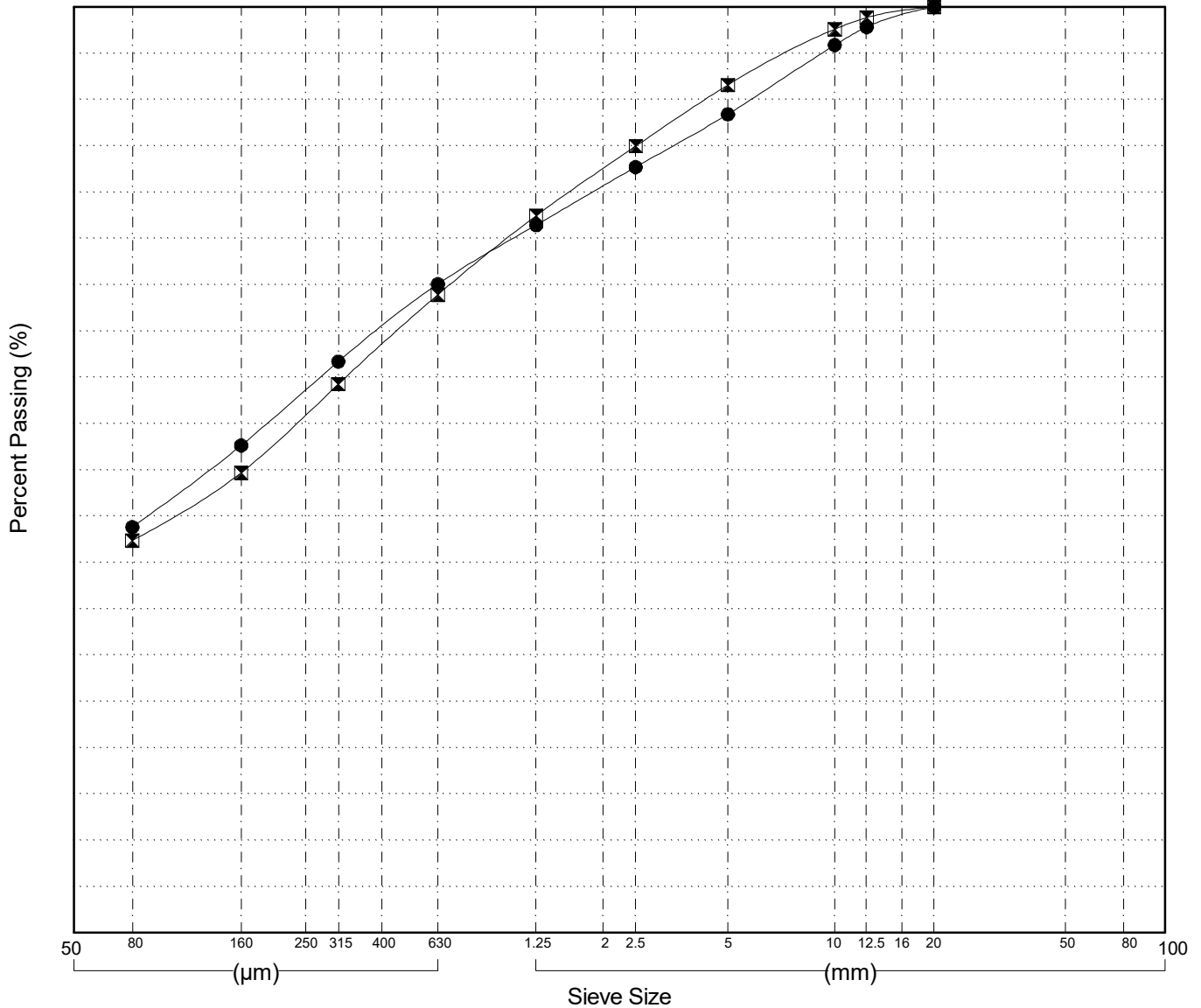


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5480-RB
	km 1433.3 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6729579.6m E495975.3m	ELEVATION: 750.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu	
● 34	2015-389	1.5 to 3.0	SILTY SAND(SM)											4.4	NP	NP	NP			
☒ 35	2015-390	3.0 to 4.5	SILTY SAND(SM)											5.7	NP	NP	NP			
Field#	Lab#		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown			
● 34	2015-389	% PASSING	100.0	100.0	100.0	100.0	100.0	97.8	95.9	88.4	82.7	76.4	70.1	61.7	52.6	43.8	11.6	44.6	43.8	
☒ 35	2015-390		100.0	100.0	100.0	100.0	100.0	98.8	97.6	91.6	85.0	77.4	68.9	59.3	49.7	42.4	8.4	49.2	42.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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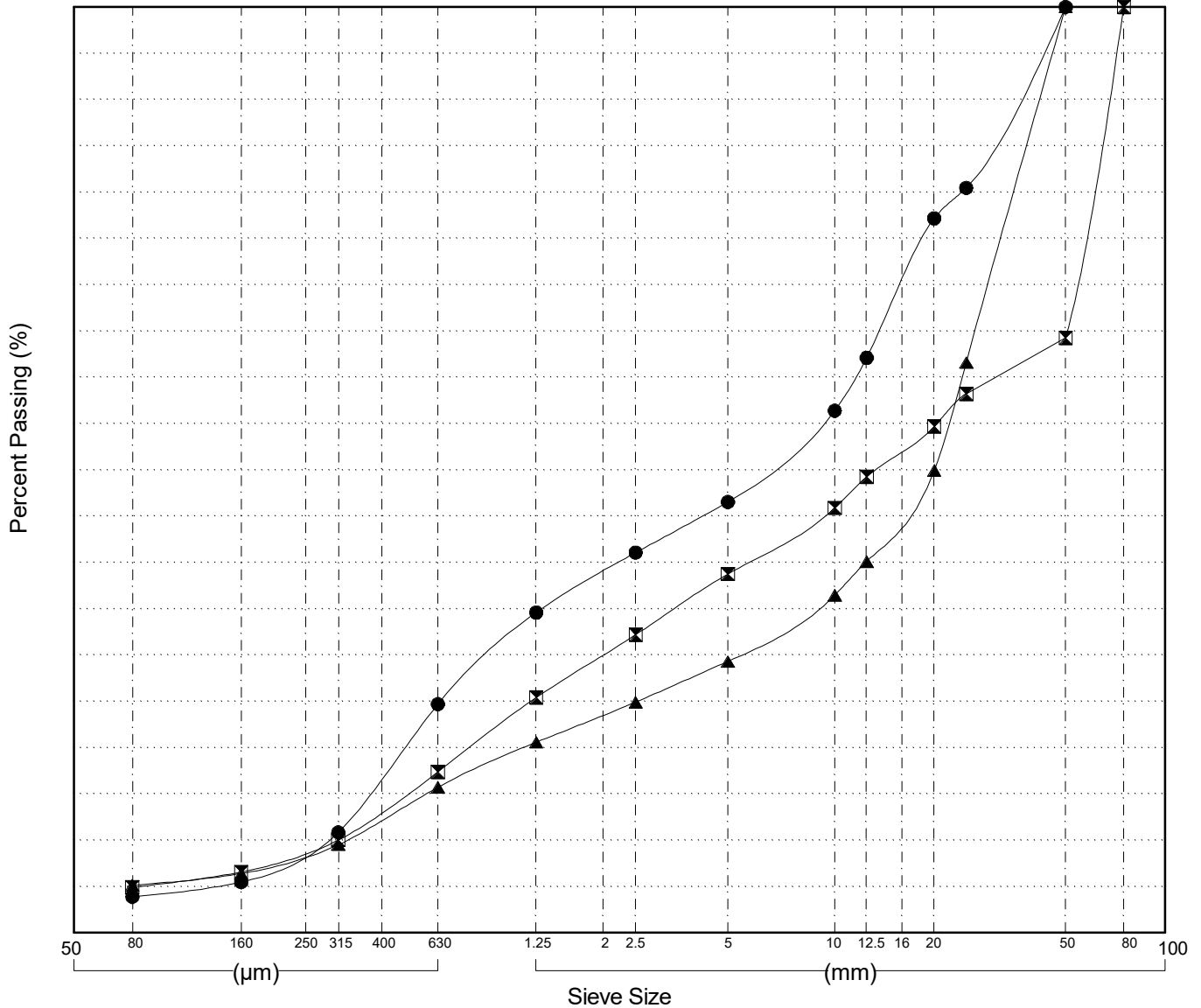
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5483
	km 1432.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6729534.8m E496065.5m	ELEVATION: 749.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 36	2015-391	0.0 to 1.5	POORLY GRADED GRAVEL with SAND(GP)	2.0	NP	NP	NP	0.3	40.7
☒ 37	2015-392	1.5 to 3.0	POORLY GRADED GRAVEL with SAND(GP)	1.9	NP	NP	NP	0.4	97.9
▲ 38	2015-393	3.0 to 4.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	1.7	NP	NP	NP	3.2	72.9

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown		
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand
● 36	2015-391	100.0	100.0	100.0	80.5	77.2	62.1	56.4	46.5	41.1	34.6	24.7	10.9	5.5	3.9	53.5	42.6	3.9
☒ 37	2015-392	100.0	100.0	64.3	58.2	54.7	49.3	45.9	38.8	32.2	25.4	17.4	10.0	6.6	4.9	61.2	33.8	4.9
▲ 38	2015-393	100.0	100.0	100.0	61.6	49.9	40.1	36.5	29.3	24.9	20.6	15.7	9.5	6.4	5.1	70.7	24.2	5.1

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



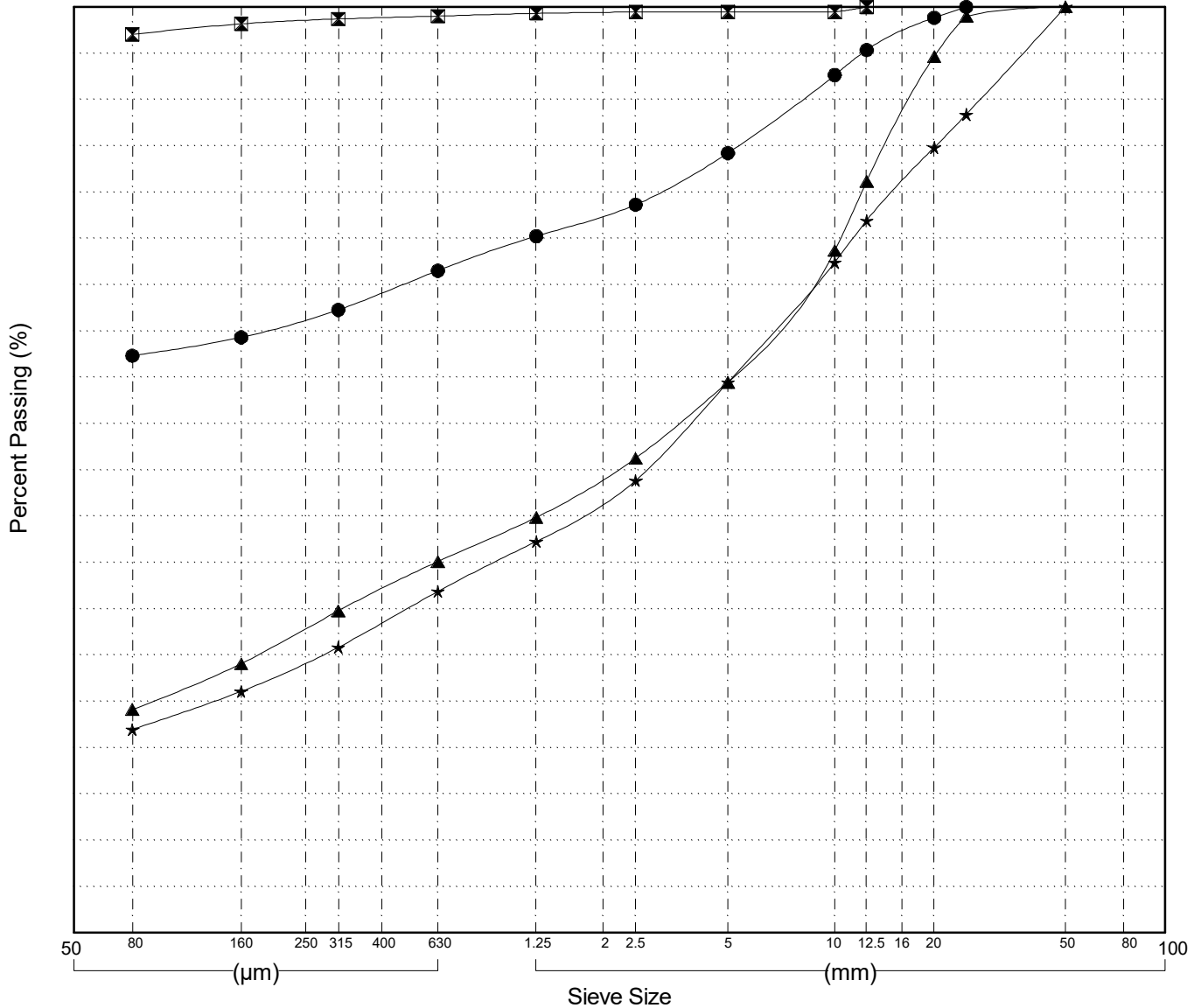
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5484
	km 1432.2 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6729290.2m E496165.9m	ELEVATION: 756.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 39	2015-394	0.0 to 0.9	SANDY SILT with GRAVEL(ML)	17.0	NP	NP	NP		
☒ 40	2015-395	0.9 to 1.5	SILT(ML)	19.3	NP	NP	NP		
▲ 41	2015-396	1.5 to 3.0	SILTY GRAVEL with SAND(GM)	5.0	NP	NP	NP		
★ 42	2015-397	3.0 to 4.5	SILTY GRAVEL with SAND(GM)	4.1	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 39	2015-394	100.0	100.0	100.0	100.0	98.8	95.4	92.6	84.2	78.6	75.2	71.5	67.3	64.3	62.3	15.8	21.9	62.3	
☒ 40	2015-395	100.0	100.0	100.0	100.0	100.0	100.0	99.4	99.4	99.4	99.3	99.0	98.7	98.2	97.0	0.6	2.4	97.0	
▲ 41	2015-396	100.0	100.0	100.0	99.0	94.6	81.2	73.7	59.4	51.3	44.9	40.1	34.8	29.1	24.1	40.6	35.3	24.1	
★ 42	2015-397	100.0	100.0	100.0	88.4	84.8	76.9	72.4	59.4	48.8	42.3	36.9	30.8	26.1	22.0	40.6	37.5	22.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



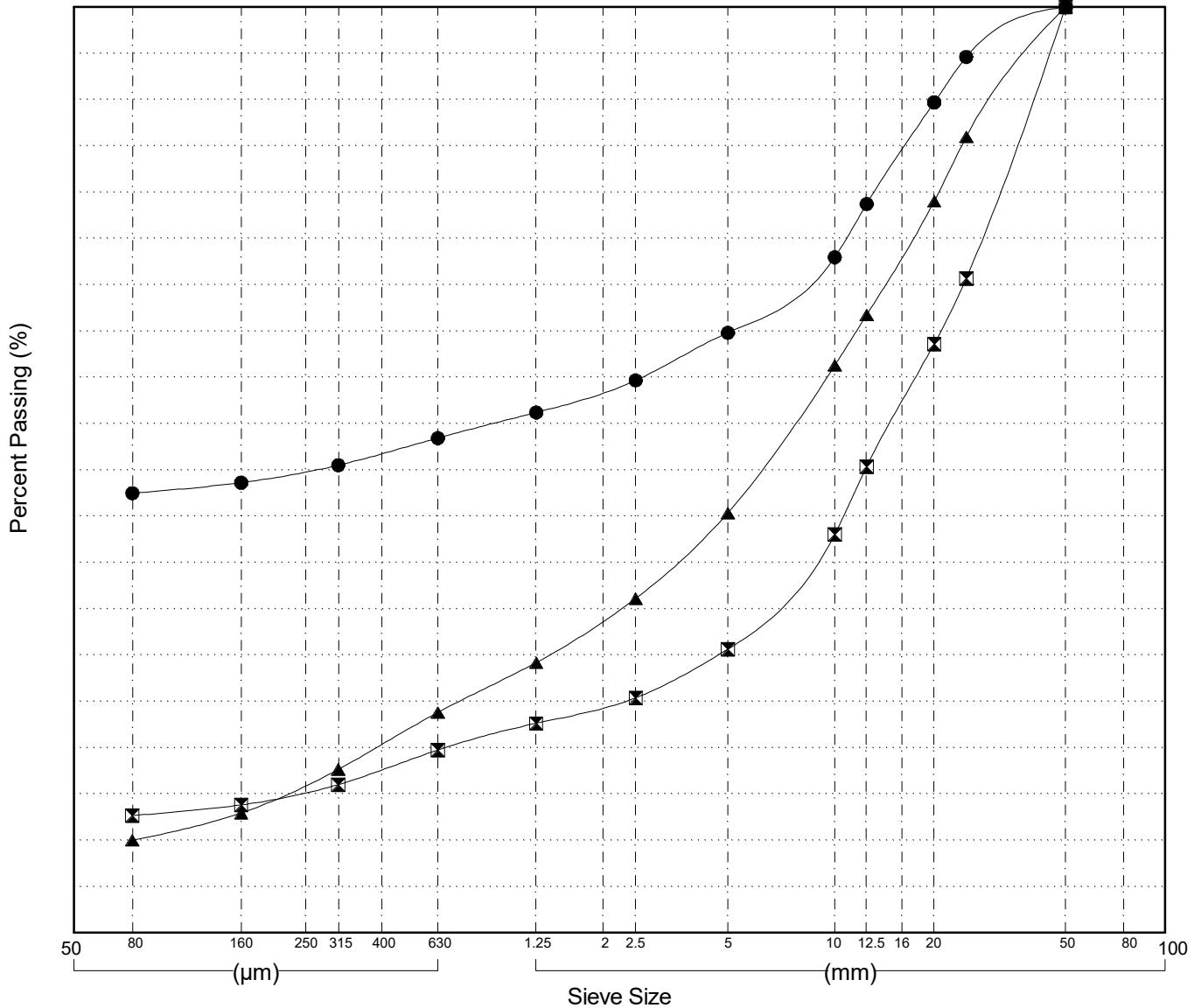
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5485
	km 1432.1 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6729108.3m E496248.5m	ELEVATION: 754.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 43	2015-398	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	7.0	NP	NP	NP		
☒ 44	2015-399	1.5 to 3.0	SILTY GRAVEL with SAND(GM)	2.9	NP	NP	NP		
▲ 45	2015-400	3.0 to 4.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	2.3	NP	NP	NP	2.6	125.4

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown			
																Gravel	Sand	Silt	Clay
● 43	2015-398	100.0	100.0	100.0	94.6	89.7	78.7	73.0	64.8	59.7	56.2	53.4	50.5	48.6	47.5	35.2	17.3	47.5	
☒ 44	2015-399	100.0	100.0	100.0	70.7	63.6	50.4	43.0	30.6	25.4	22.6	19.8	16.0	13.8	12.7	69.4	18.0	12.7	
▲ 45	2015-400	100.0	100.0	100.0	86.0	79.0	66.7	61.3	45.3	36.1	29.2	23.8	17.7	12.9	10.0	54.7	35.3	10.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



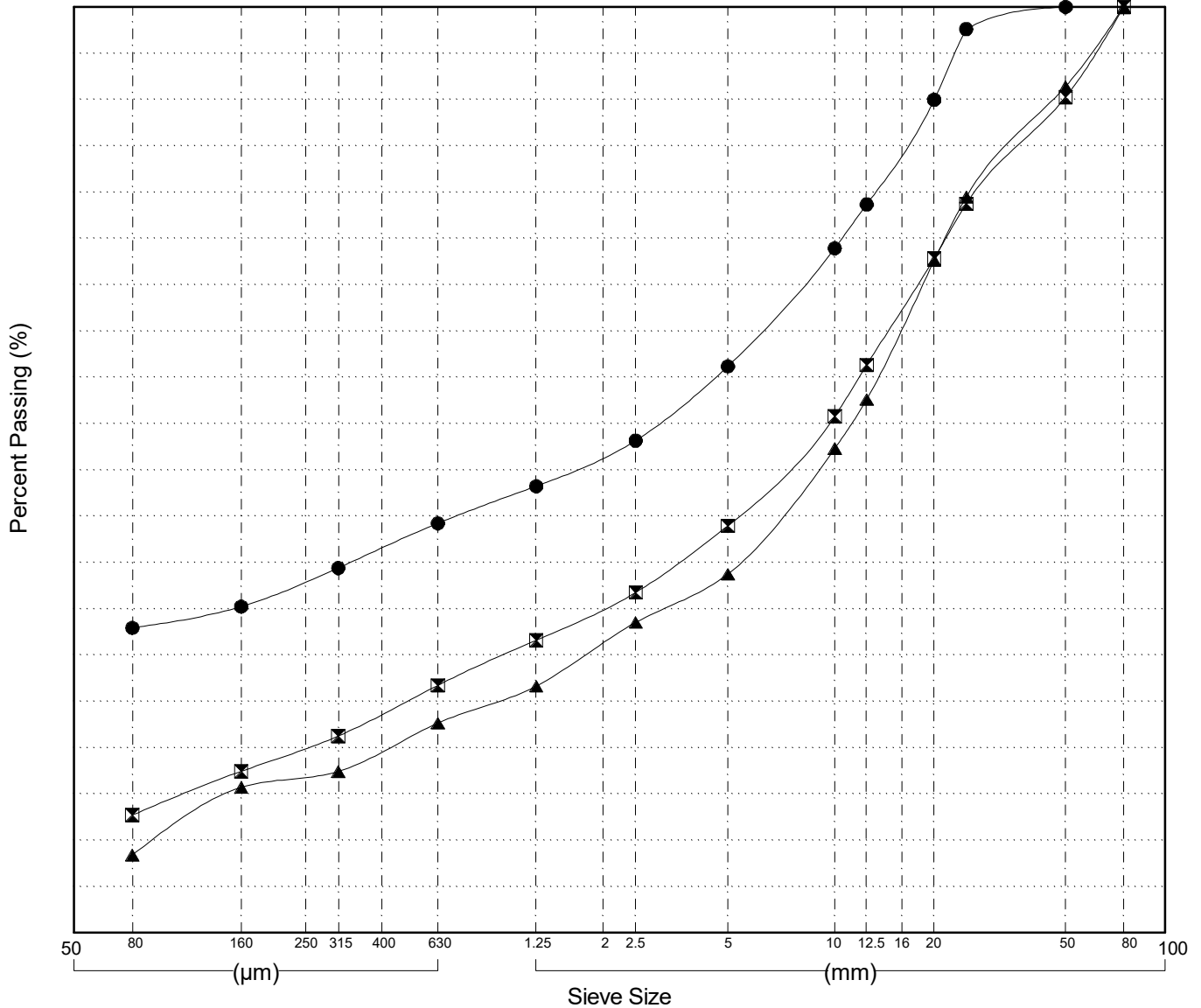
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5486
	km 1432.0 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6728925.2m E496333.1m	ELEVATION: 754.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 46	2015-401	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	8.6	NP	NP	NP		
☒ 47	2015-402	1.5 to 3.0	SILTY GRAVEL with SAND(GM)	3.9	NP	NP	NP		
▲ 48	2015-403	3.0 to 4.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	4.0	NP	NP	NP	2.6	152.3

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 46	2015-401	100.0	100.0	100.0	97.6	90.0	78.7	73.9	61.2	53.2	48.2	44.2	39.4	35.2	32.9	38.8	28.2	32.9	
☒ 47	2015-402	100.0	100.0	90.3	78.7	72.8	61.3	55.8	44.0	36.8	31.6	26.7	21.3	17.4	12.7	56.0	31.2	12.7	
▲ 48	2015-403	100.0	100.0	91.4	79.5	72.6	57.6	52.3	38.7	33.5	26.6	22.7	17.4	15.7	8.4	61.3	30.3	8.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



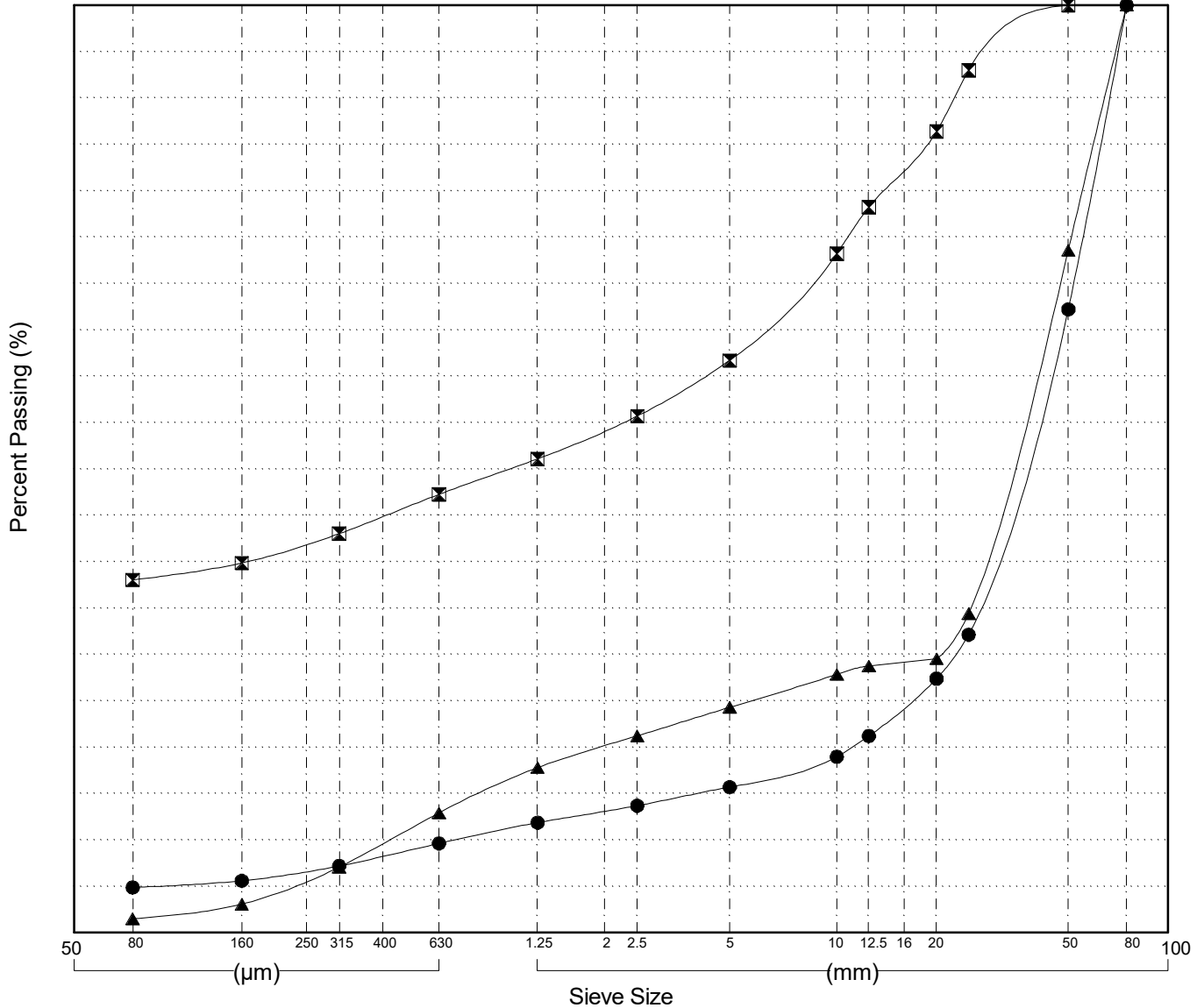
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5487
	km 1431.8 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6727510.8m E496763.8m	ELEVATION: 759.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 49	2015-404	0.0 to 1.5	POORLY GRADED GRAVEL(GP)	1.7	NP	NP	NP	16.7	61.5
☒ 50	2015-405	1.5 to 3.0	SILTY GRAVEL with SAND(GM)	1.7	NP	NP	NP		
▲ 51	2015-406	3.0 to 4.5	POORLY GRADED GRAVEL with SAND(GP)	1.5	NP	NP	NP	23.8	88.3

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown		
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand
● 49	2015-404	100.0	100.0	67.2	32.1	27.4	21.2	19.0	15.7	13.7	11.9	9.6	7.2	5.6	4.9	84.3	10.8	4.9
☒ 50	2015-405	100.0	100.0	100.0	93.0	86.4	78.2	73.2	61.7	55.7	51.1	47.2	43.0	39.9	38.0	38.3	23.7	38.0
▲ 51	2015-406	100.0	100.0	73.6	34.4	29.5	28.8	27.9	24.3	21.2	17.8	12.9	7.1	3.1	1.5	75.7	22.8	1.5

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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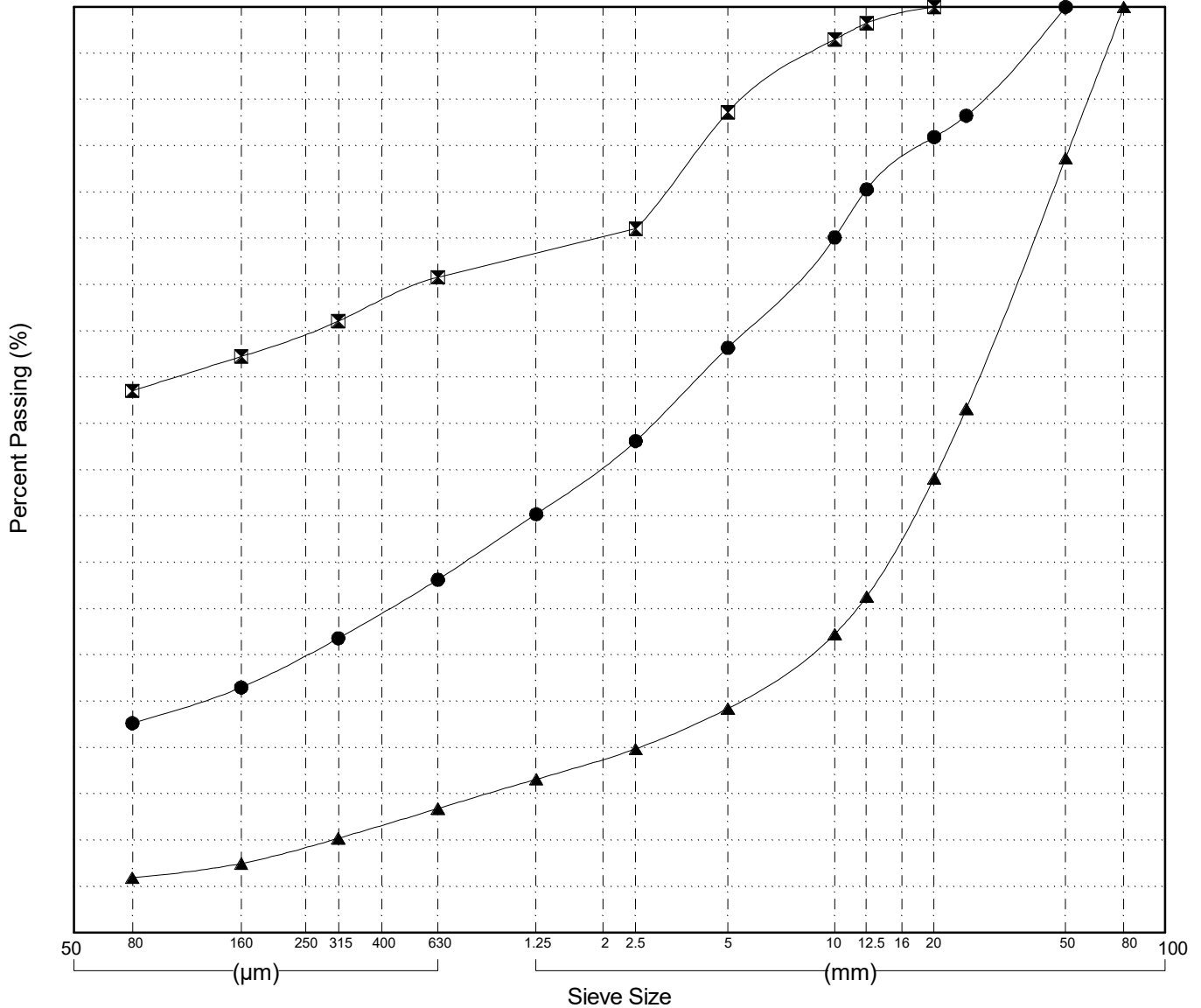
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5488
	km 1430.8 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6726989.6m E496926.5m	ELEVATION: 758.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 52	2015-407	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	5.2	NP	NP	NP		
☒ 54	2015-409	1.5 to 3.0	SANDY SILT(ML)	7.3	NP	NP	NP		
▲ 53	2015-408	3.0 to 4.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	17.2	NP	NP	NP	8.1	91.2

Field#	Lab#	% PASSING	Breakdown																
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 52	2015-407	100.0	100.0	100.0	88.2	85.9	80.3	75.1	63.2	53.1	45.2	38.1	31.8	26.5	22.7	36.8	40.5	22.7	
☒ 54	2015-409	100.0	100.0	100.0	100.0	100.0	98.2	96.5	88.6	76.0	73.4	70.8	66.1	62.2	58.5	11.4	30.1	58.5	
▲ 53	2015-408	100.0	100.0	83.7	56.6	49.1	36.3	32.3	24.2	19.9	16.6	13.4	10.2	7.5	5.9	75.8	18.3	5.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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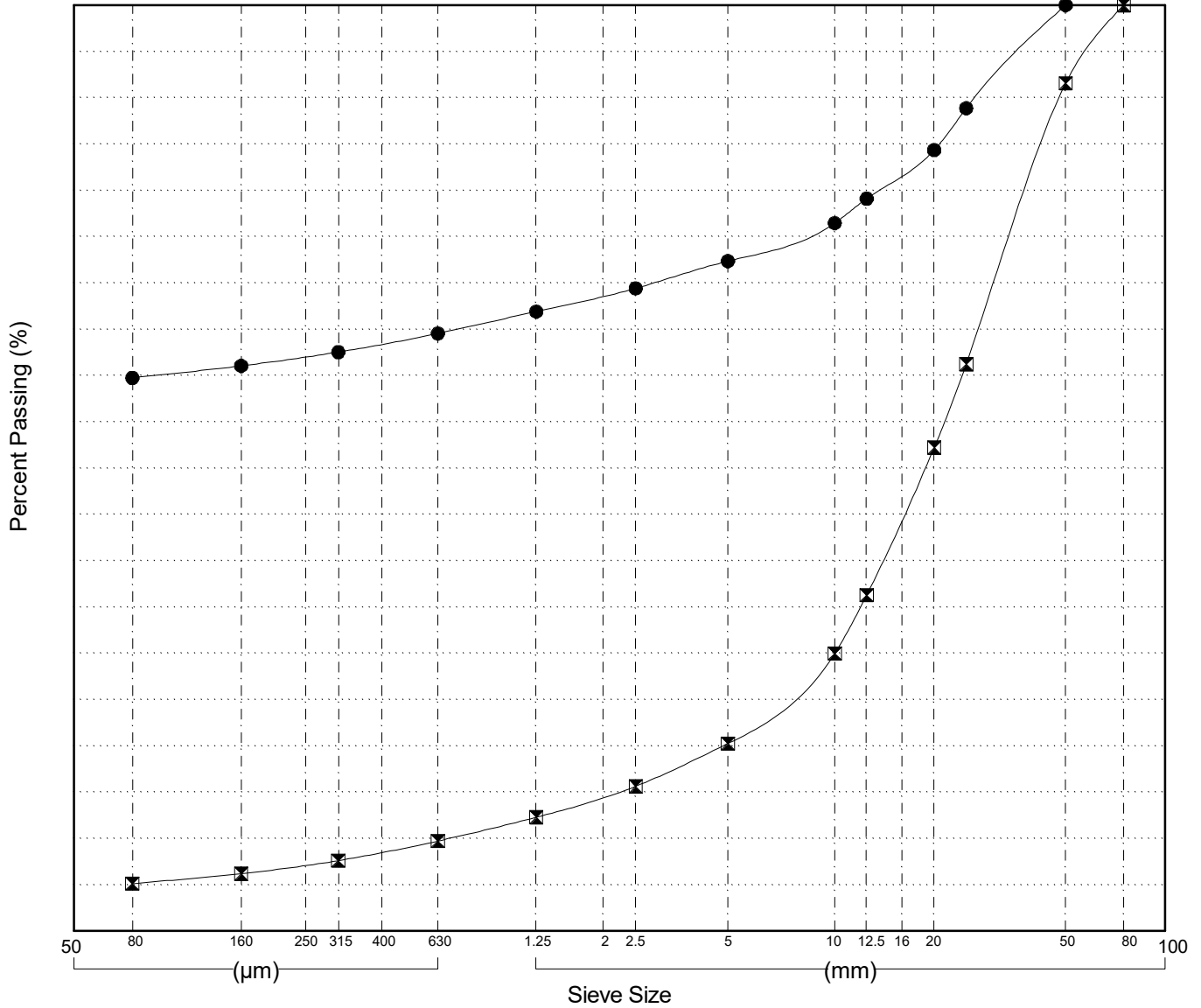
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5489
	km 1431.2 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6726183.4m E497316.6m	ELEVATION: 766.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 55	2015-410	0.0 to 1.5	GRAVELLY SILT (ML)	1.5	NP	NP	NP		
☒ 56	2015-411	1.5 to 3.0	POORLY GRADED GRAVEL with SILT and SAND (GP-GM)	1.8	NP	NP	NP	6.1	35.8

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 55	2015-410	100.0	100.0	100.0	88.9	84.4	79.1	76.5	72.4	69.4	66.9	64.5	62.5	61.0	59.7	27.6	12.6	59.7	
☒ 56	2015-411	100.0	100.0	91.6	61.2	52.2	36.3	30.0	20.3	15.6	12.3	9.7	7.6	6.2	5.1	79.7	15.1	5.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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Complete: 9/26/2015

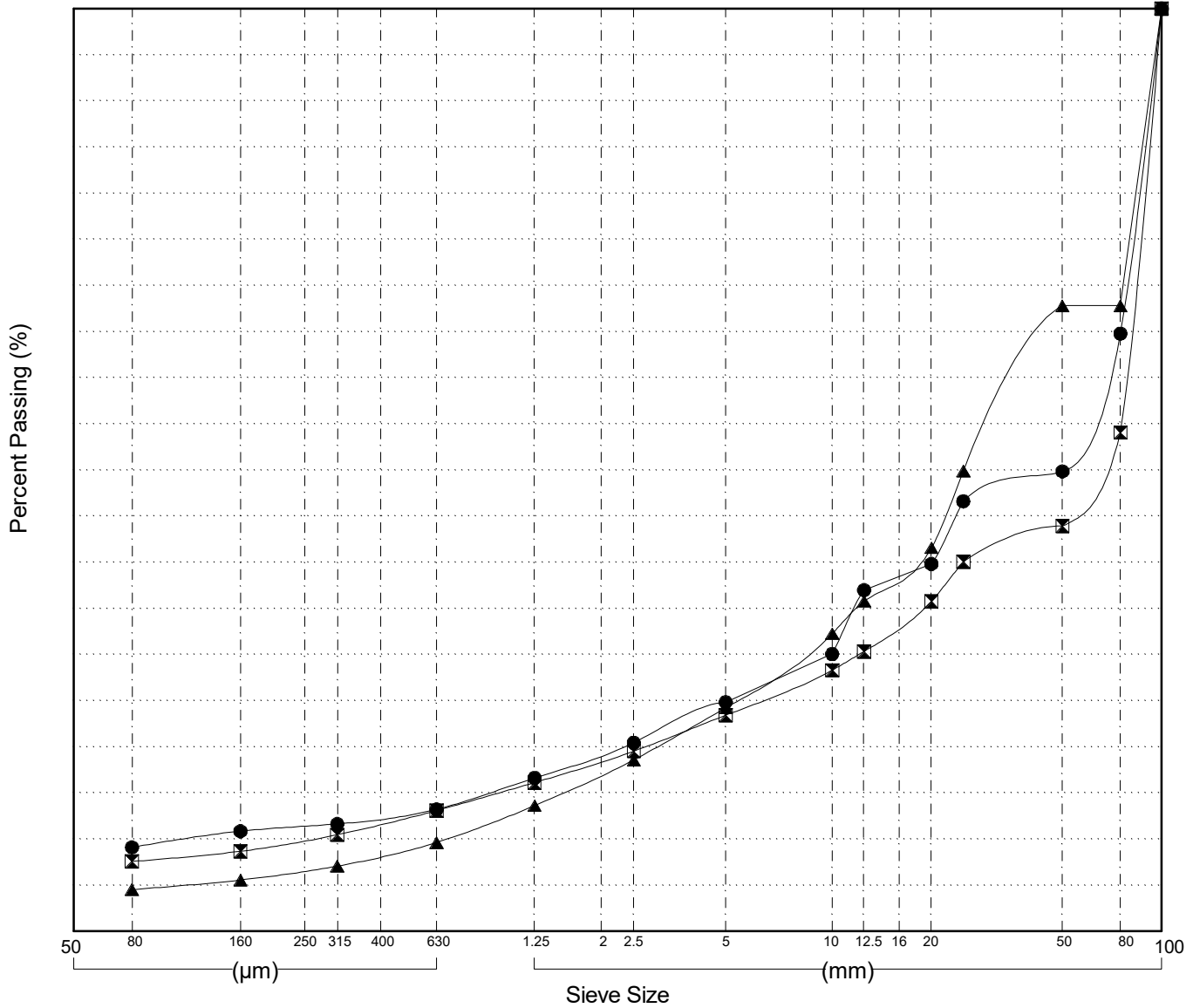
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5490
	km 1431.4 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6727320m E496817.8m	ELEVATION: 759.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 57	2015-412	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	2.9	NP	NP	NP	13.5	597.3
☒ 58	2015-413	1.5 to 3.0	SILTY GRAVEL with SAND(GM)	1.9	NP	NP	NP	7.1	294.8
▲ 59	2015-414	3.0 to 4.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	1.7	NP	NP	NP	2.6	55.0

Field#	Lab#	% PASSING															% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 57	2015-412	100.0	64.8	49.8	46.6	39.8	37.0	30.1	24.8	20.4	16.6	13.2	11.6	10.9	9.1	39.9	15.7	9.1		
☒ 58	2015-413	100.0	54.1	43.9	40.1	35.8	30.3	28.3	23.4	19.5	16.1	13.1	10.5	8.7	7.6	30.6	15.8	7.6		
▲ 59	2015-414	100.0	67.8	67.8	49.9	41.6	35.8	32.3	24.2	18.6	13.6	9.6	7.1	5.6	4.5	43.6	19.7	4.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



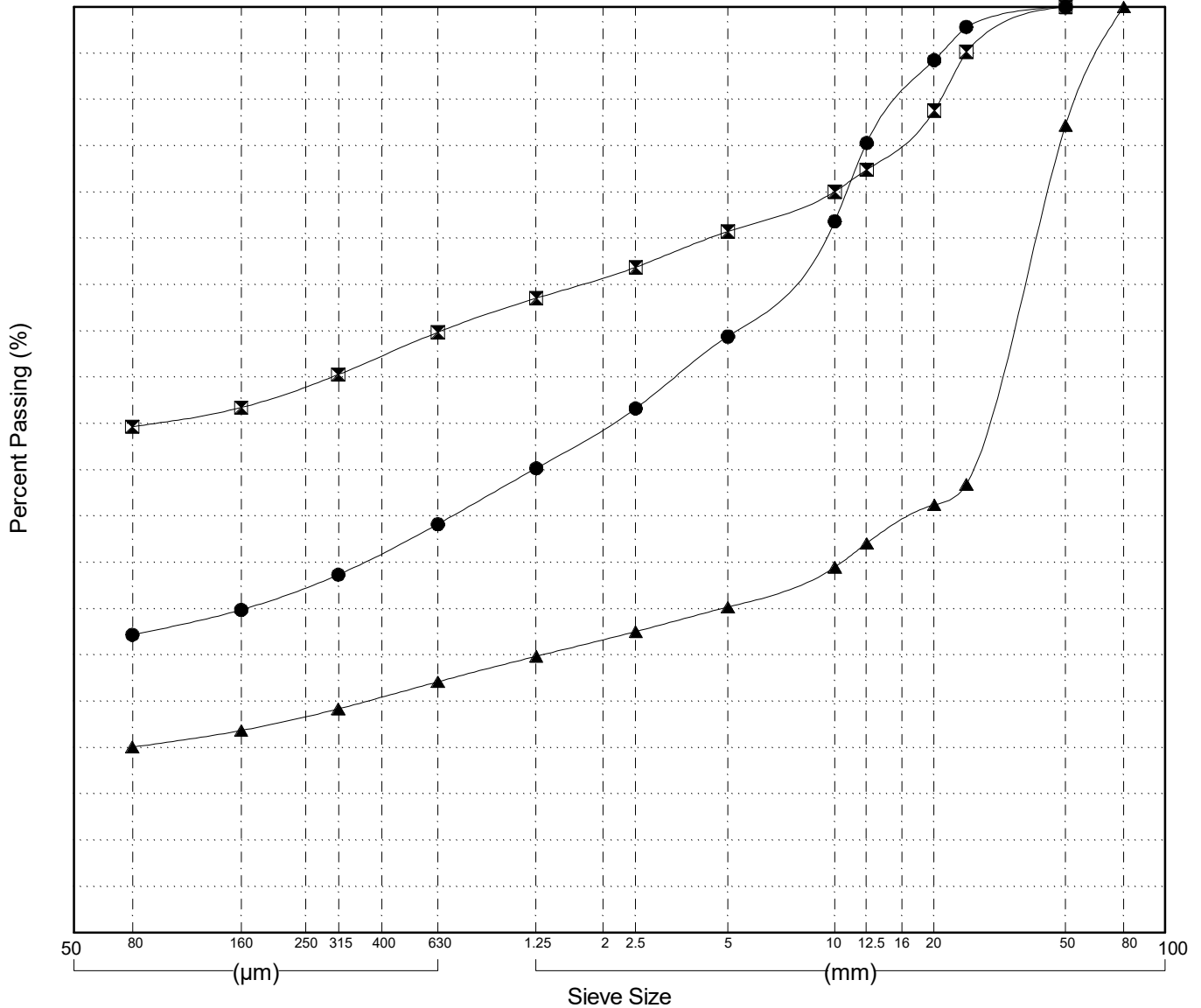
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5491
	km 1431.6 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6727320m E496817.8m	ELEVATION: 759.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 60	2015-415	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	6.6	NP	NP	NP		
☒ 61	2015-416	1.5 to 3.0	GRAVELLY SILT with SAND(ML)	14.1	NP	NP	NP		
▲ 62	2015-417	3.0 to 4.5	SILTY GRAVEL with SAND(GM)	4.8	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 60	2015-415	100.0	100.0	100.0	97.8	94.3	85.3	76.9	64.4	56.6	50.2	44.1	38.7	34.9	32.2	35.6	32.2	32.2		
☒ 61	2015-416	100.0	100.0	100.0	95.2	88.8	82.4	80.1	75.7	71.9	68.5	64.9	60.3	56.7	54.7	24.3	21.1	54.7		
▲ 62	2015-417	100.0	100.0	87.2	48.4	46.2	42.1	39.5	35.2	32.5	29.9	27.1	24.2	21.9	20.1	64.8	15.1	20.1		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



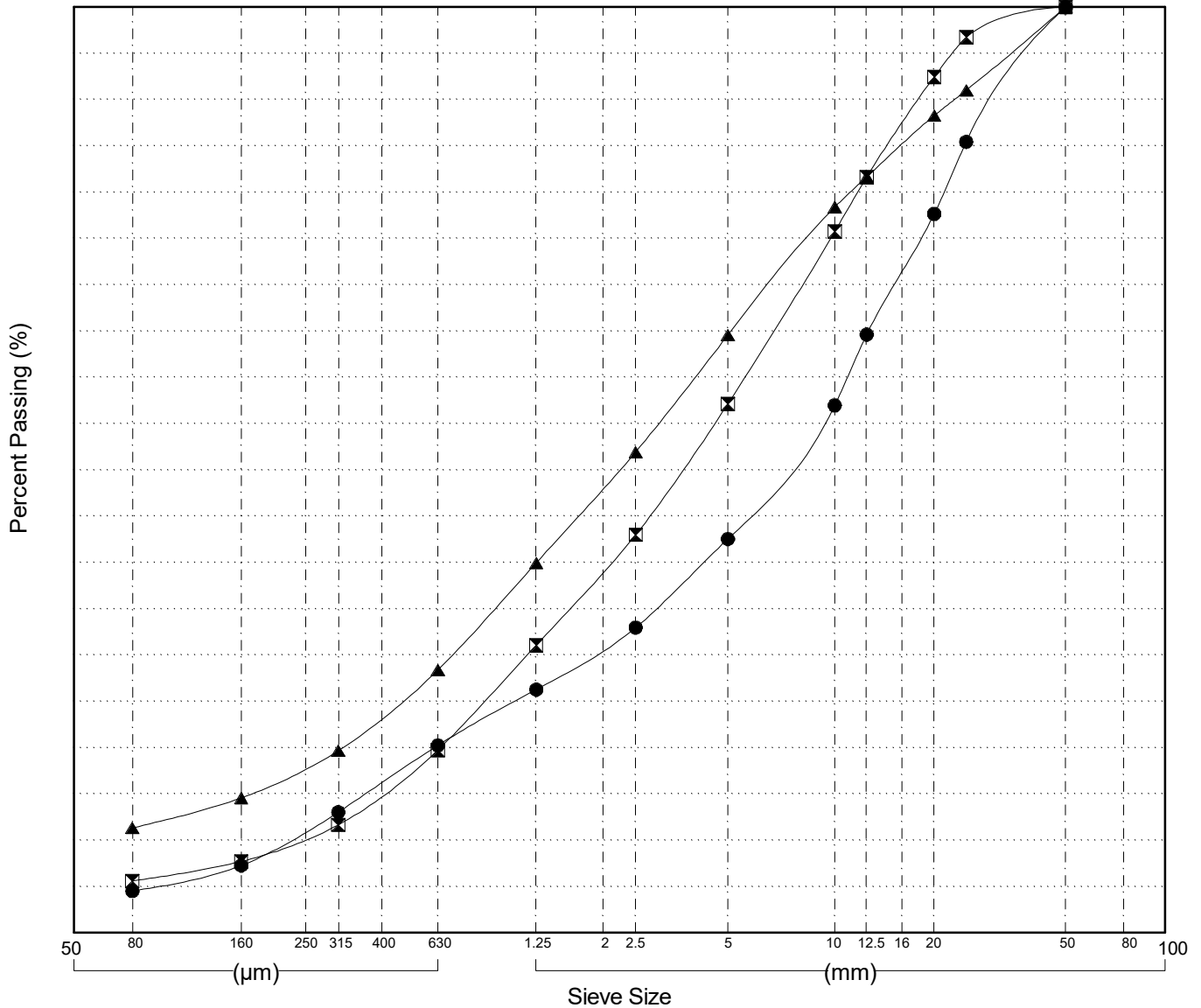
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5492
	km 1432.4 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6729461.9m E496061.6m	ELEVATION: 755.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 63	2015-418	0.0 to 1.5	WELL-GRADED GRAVEL with SAND(GW)	2.5	NP	NP	NP	1.4	49.6
☒ 64	2015-419	1.5 to 3.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	3.0	NP	NP	NP	1.1	22.5
▲ 65	2015-420	3.0 to 4.5	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	4.0	NP	NP	NP	2.3	68.7

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 63	2015-418	100.0	100.0	100.0	100.0	85.4	77.7	64.6	57.0	42.5	33.0	26.3	20.2	13.0	7.3	4.5	57.5	38.0	4.5	
☒ 64	2015-419	100.0	100.0	100.0	96.7	92.4	81.6	75.7	57.1	43.0	31.1	19.7	11.7	7.7	5.6	42.9	51.5	5.6		
▲ 65	2015-420	100.0	100.0	100.0	91.0	88.3	81.6	78.4	64.6	51.9	39.9	28.4	19.7	14.6	11.3	35.4	53.2	11.3		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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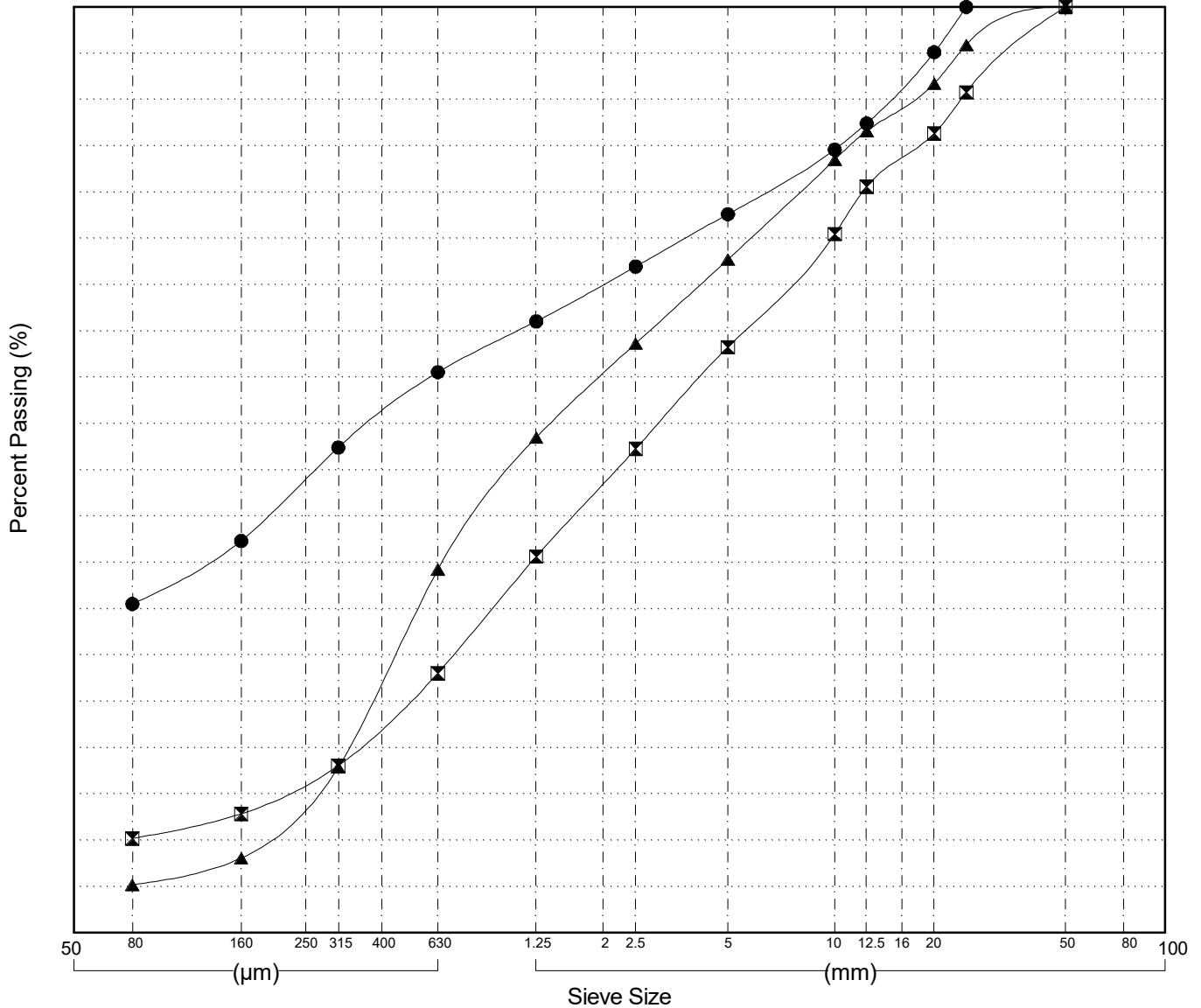
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5493
	km 1433.3 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6729579.6m E495975.3m	ELEVATION: 750.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 66	2015-421	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	18.2	NP	NP	NP		
☒ 67	2015-422	1.5 to 3.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	5.3	NP	NP	NP	1.8	55.4
▲ 68	2015-423	3.0 to 4.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	3.0	NP	NP	NP	0.6	10.7

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 66	2015-421	100.0	100.0	100.0	100.0	95.1	87.4	84.6	77.6	72.0	66.0	60.6	52.4	42.3	35.5	22.4	42.1	35.5		
☒ 67	2015-422	100.0	100.0	100.0	90.8	86.3	80.6	75.5	63.3	52.3	40.6	28.0	18.1	12.8	10.2	36.7	53.1	10.2		
▲ 68	2015-423	100.0	100.0	100.0	95.9	91.7	86.6	83.5	72.7	63.6	53.5	39.2	17.9	8.1	5.2	27.3	67.5	5.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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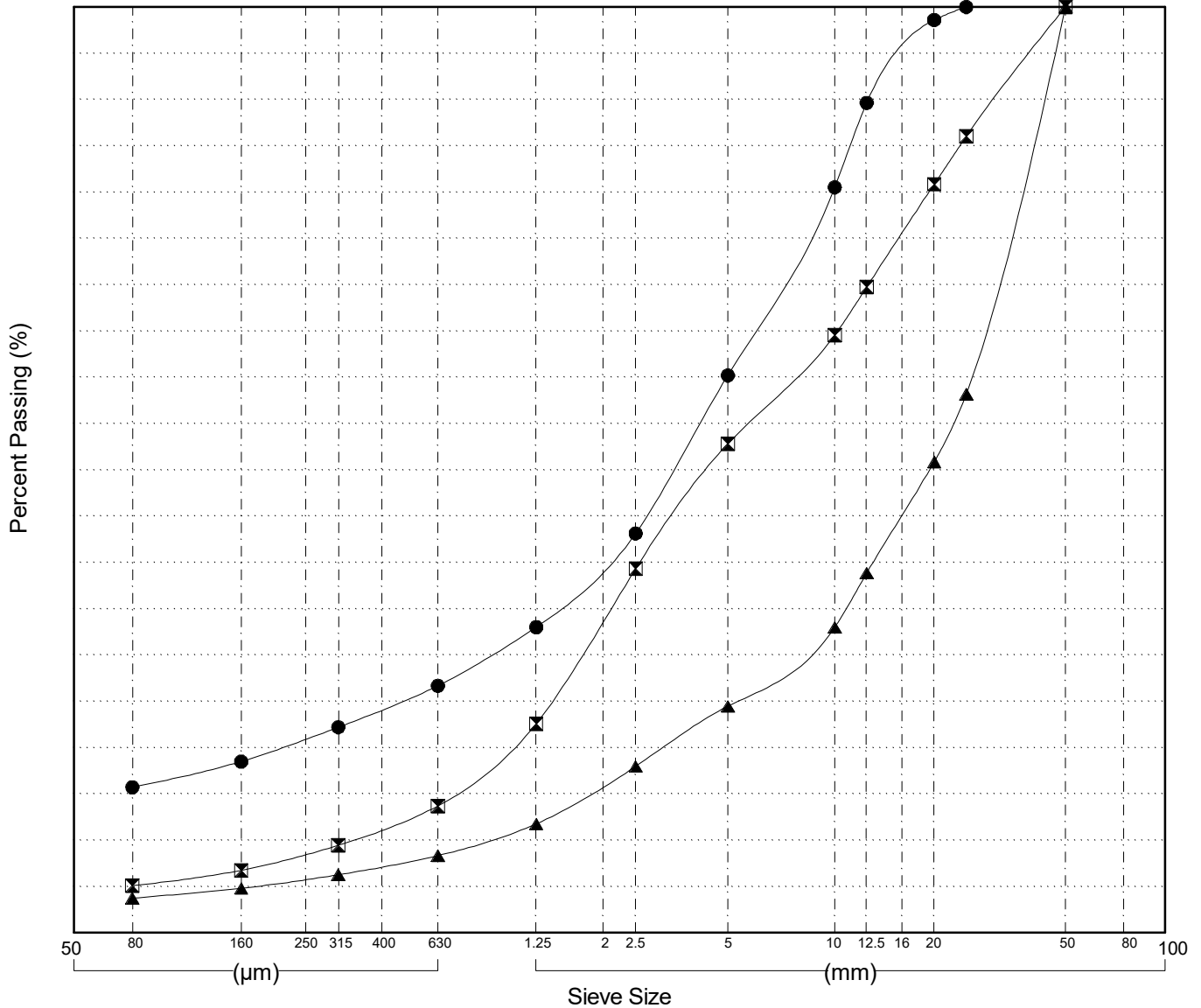
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5494
	km 1428.1 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6726650.1m E497073.4m	ELEVATION: 762m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 69	2015-424	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	6.5	NP	NP	NP		
☒ 70	2015-425	1.5 to 3.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	2.2	NP	NP	NP	1.1	21.8
▲ 71	2015-426	3.0 to 4.5	WELL-GRADED GRAVEL with SAND(GW)	1.5	NP	NP	NP	2.6	29.4

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 69	2015-424	100.0	100.0	100.0	100.0	98.6	89.6	80.5	60.2	43.1	33.0	26.7	22.2	18.5	15.7	39.8	44.5	15.7	
☒ 70	2015-425	100.0	100.0	100.0	86.0	80.9	69.7	64.6	52.8	39.3	22.6	13.7	9.5	6.8	5.1	47.2	47.7	5.1	
▲ 71	2015-426	100.0	100.0	100.0	58.2	50.9	38.9	33.0	24.5	18.0	11.8	8.3	6.3	4.8	3.8	75.5	20.7	3.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



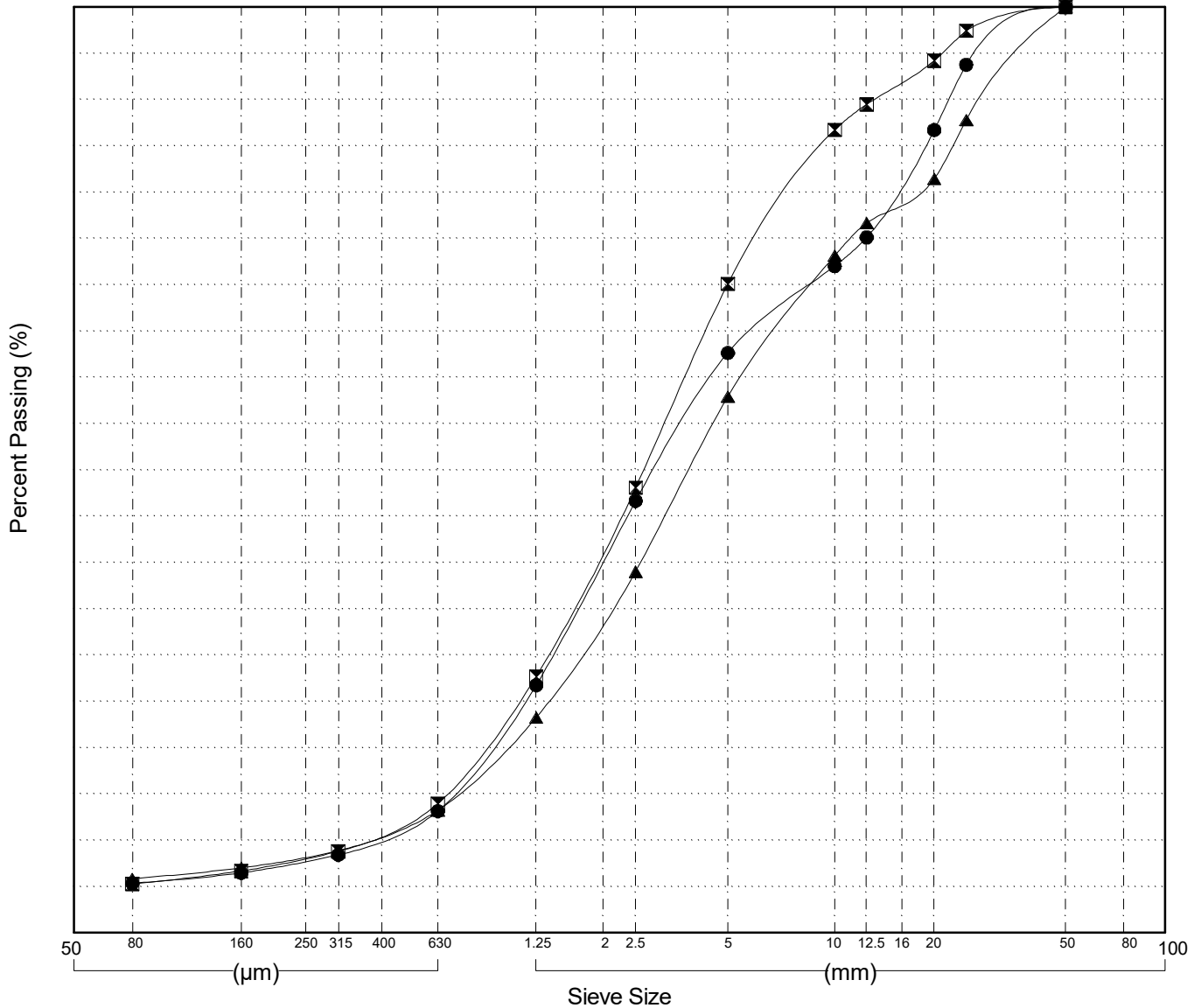
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5495
	km 1427.9 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6725979.7m E497443m	ELEVATION: 766.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 72	2015-427	0.0 to 1.5	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	3.7	NP	NP	NP	1.2	10.8
☒ 73	2015-428	1.5 to 3.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	3.4	NP	NP	NP	1.4	9.6
▲ 74	2015-429	3.0 to 4.5	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	2.8	NP	NP	NP	1.4	14.0

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 72	2015-427	100.0	100.0	100.0	93.7	86.7	75.1	72.0	62.6	46.7	26.7	13.1	8.4	6.5	5.4	37.4	57.3	5.4	
☒ 73	2015-428	100.0	100.0	100.0	97.4	94.2	89.5	86.7	70.1	48.1	27.7	14.0	8.8	6.7	5.3	29.9	64.8	5.3	
▲ 74	2015-429	100.0	100.0	100.0	87.8	81.4	76.7	73.1	57.9	39.0	23.2	13.2	8.9	7.0	5.8	42.1	52.1	5.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

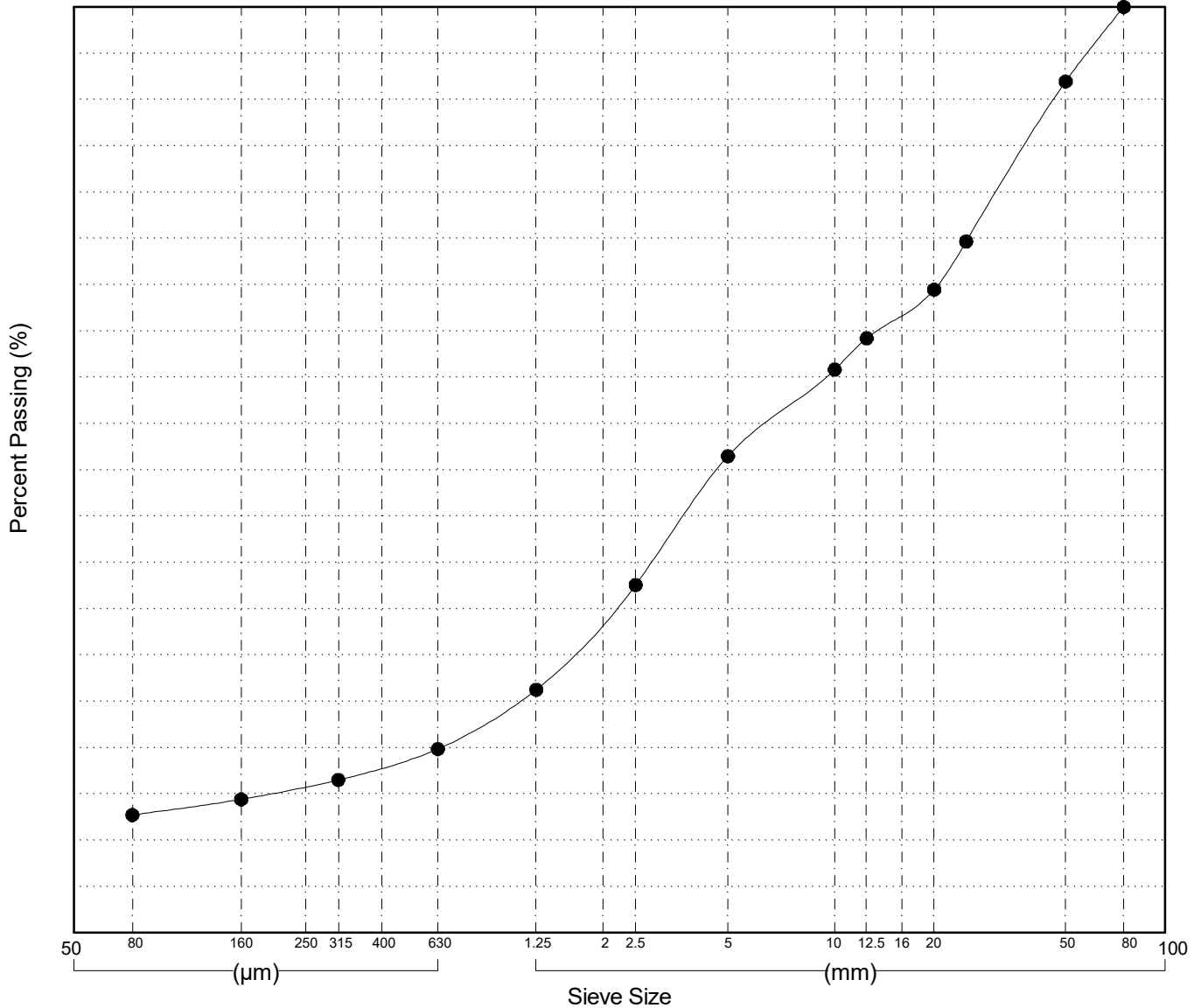


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5496
	km 1427.6 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6725578.4m E497608.7m	ELEVATION: 770m

Master Revised July 2013

Field#	Lab#	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu
75	2015-430	0.0 to 1.5	SILTY GRAVEL with SAND(GM)											3.9	NP	NP	NP		
Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
75	2015-430	100.0	100.0	91.9	74.7	69.5	64.2	60.8	51.5	37.6	26.3	19.9	16.5	14.4	12.7	Gravel	Sand	Silt	Clay
																48.5	38.7	12.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



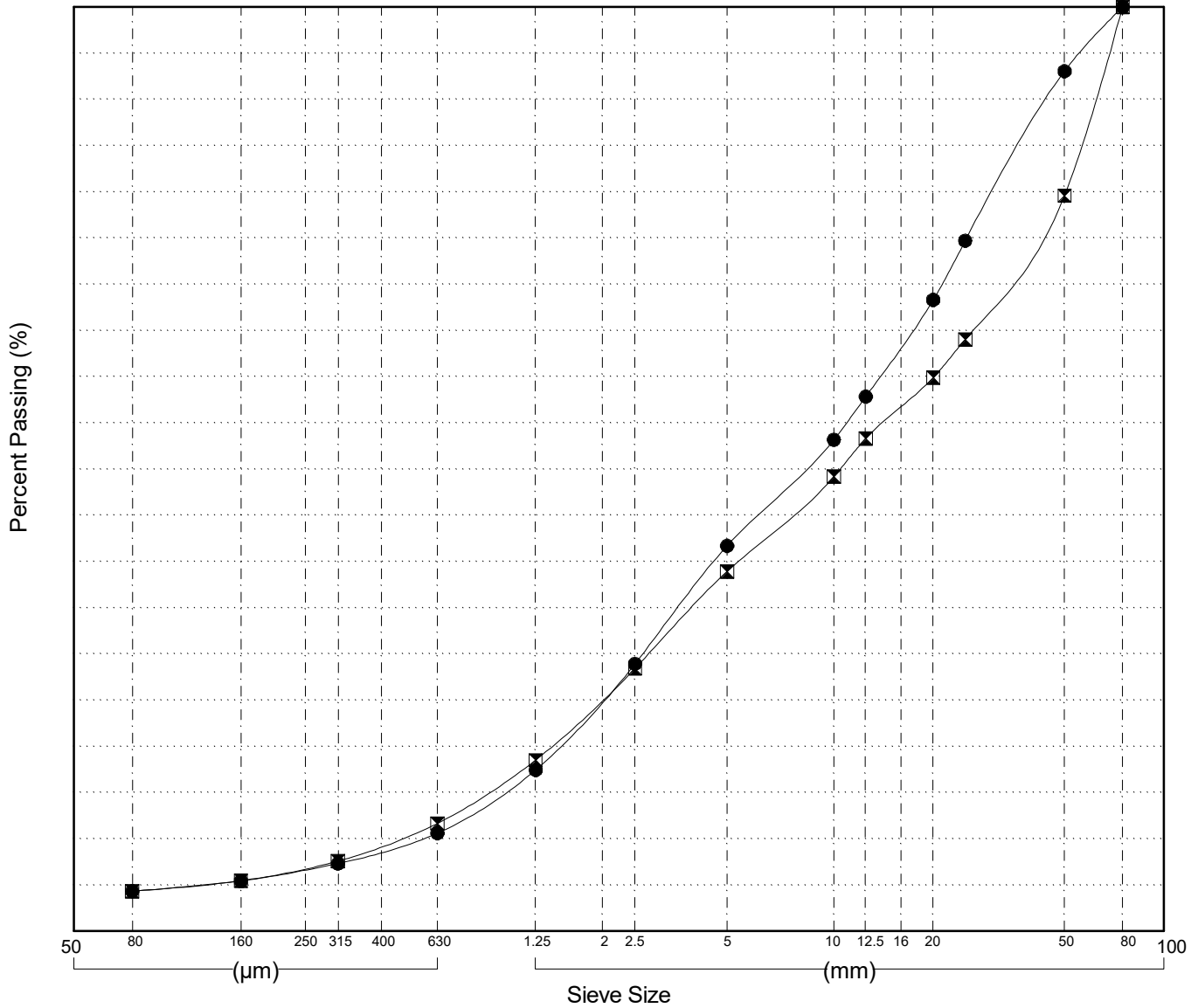
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5497
	km 1427.6 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6725745.9m E497540m	ELEVATION: 768.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 76	2015-431	1.5 to 3.0	POORLY GRADED GRAVEL with SAND(GP)	1.7	NP	NP	NP	0.9	24.8
☒ 77	2015-432	3.0 to 4.5	POORLY GRADED GRAVEL with SAND(GP)	1.6	NP	NP	NP	0.8	42.3

Field#	Lab#	% PASSING														% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 76	2015-431	100.0	100.0	93.0	74.7	68.3	57.8	53.2	41.7	28.9	17.4	10.6	7.3	5.4	4.3	58.3	37.4	4.3	
☒ 77	2015-432	100.0	100.0	79.6	64.0	59.9	53.3	49.2	38.9	28.4	18.5	11.7	7.6	5.5	4.3	61.1	34.6	4.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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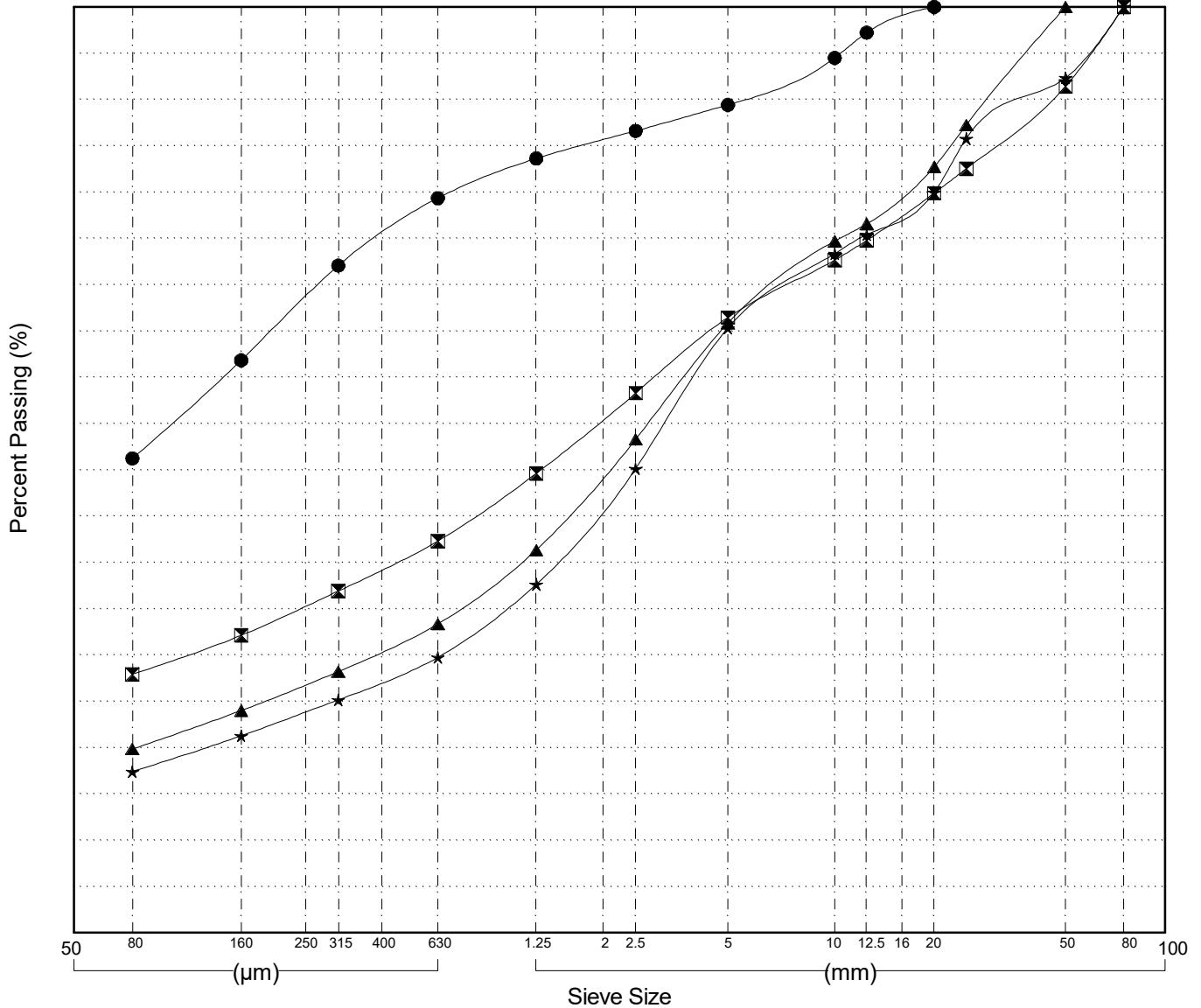
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5498
	km 1427.5 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724998.8m E497826.5m	ELEVATION: 768.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 78	2015-433	0.0 to 1.5	SANDY SILT (ML)	5.5	NP	NP	NP		
☒ 79	2015-434	1.5 to 3.0	SILTY SAND with GRAVEL (SM)	2.8	NP	NP	NP		
▲ 80	2015-435	3.0 to 4.5	SILTY SAND with GRAVEL (SM)	2.3	NP	NP	NP		
★ 81	2015-436	4.5 to 6.0	SILTY SAND with GRAVEL (SM)	2.1	NP	NP	NP		

Field#	Lab#	% PASSING															% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 78	2015-433	100.0	100.0	100.0	100.0	100.0	97.2	94.5	89.4	86.6	83.6	79.3	72.1	61.8	51.2	10.6	38.2	51.2		
☒ 79	2015-434	100.0	100.0	91.4	82.5	79.9	74.8	72.7	66.5	58.3	49.6	42.3	36.9	32.1	27.9	33.5	38.5	27.9		
▲ 80	2015-435	100.0	100.0	100.0	87.2	82.7	76.6	74.7	65.8	53.3	41.3	33.4	28.2	24.0	19.9	34.2	46.0	19.9		
★ 81	2015-436	100.0	100.0	92.3	85.8	80.0	75.4	73.3	65.3	50.1	37.6	29.7	25.2	21.3	17.4	34.7	47.9	17.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



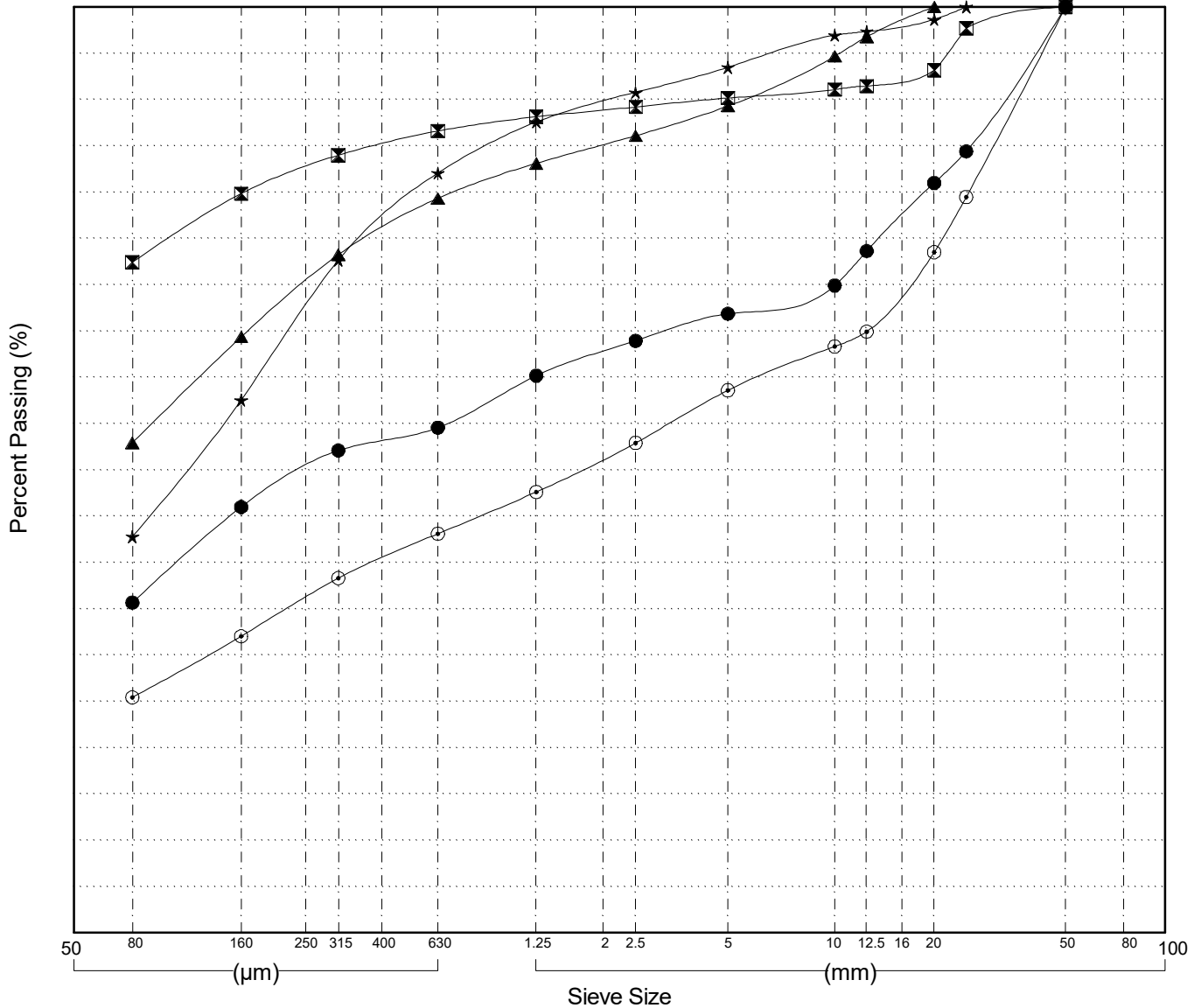
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5499
	km 1427.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724641m E497912.1m	ELEVATION: 766m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 82	2015-437	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	7.9	NP	NP	NP		
☒ 83	2015-438	1.5 to 2.4	SILT with SAND(ML)	8.6	NP	NP	NP		
▲ 84	2015-439	2.4 to 3.0	SANDY SILT(ML)	7.3	NP	NP	NP		
★ 85	2015-440	3.0 to 4.5	SILTY SAND(SM)	11.5	NP	NP	NP		
⊙ 86	2015-441	4.5 to 6.0	SILTY GRAVEL with SAND(GM)	4.5	NP	NP	NP		

Field#	Lab#	%PASSING														%Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 82	2015-437	100.0	100.0	100.0	84.4	81.0	73.6	69.9	66.9	63.9	60.2	54.6	52.1	46.0	35.7	33.1	31.2	35.7	
☒ 83	2015-438	100.0	100.0	100.0	97.7	93.1	91.4	91.1	90.2	89.2	88.1	86.6	84.0	79.8	72.4	9.8	17.7	72.4	
▲ 84	2015-439	100.0	100.0	100.0	100.0	100.0	96.8	94.7	89.3	86.1	83.1	79.3	73.2	64.4	52.9	10.7	36.4	52.9	
★ 85	2015-440	100.0	100.0	100.0	100.0	98.6	97.3	96.9	93.5	90.8	87.5	82.1	72.6	57.5	42.8	6.5	50.7	42.8	
⊙ 86	2015-441	100.0	100.0	100.0	79.5	73.5	64.9	63.3	58.6	52.9	47.6	43.1	38.3	32.0	25.4	41.4	33.2	25.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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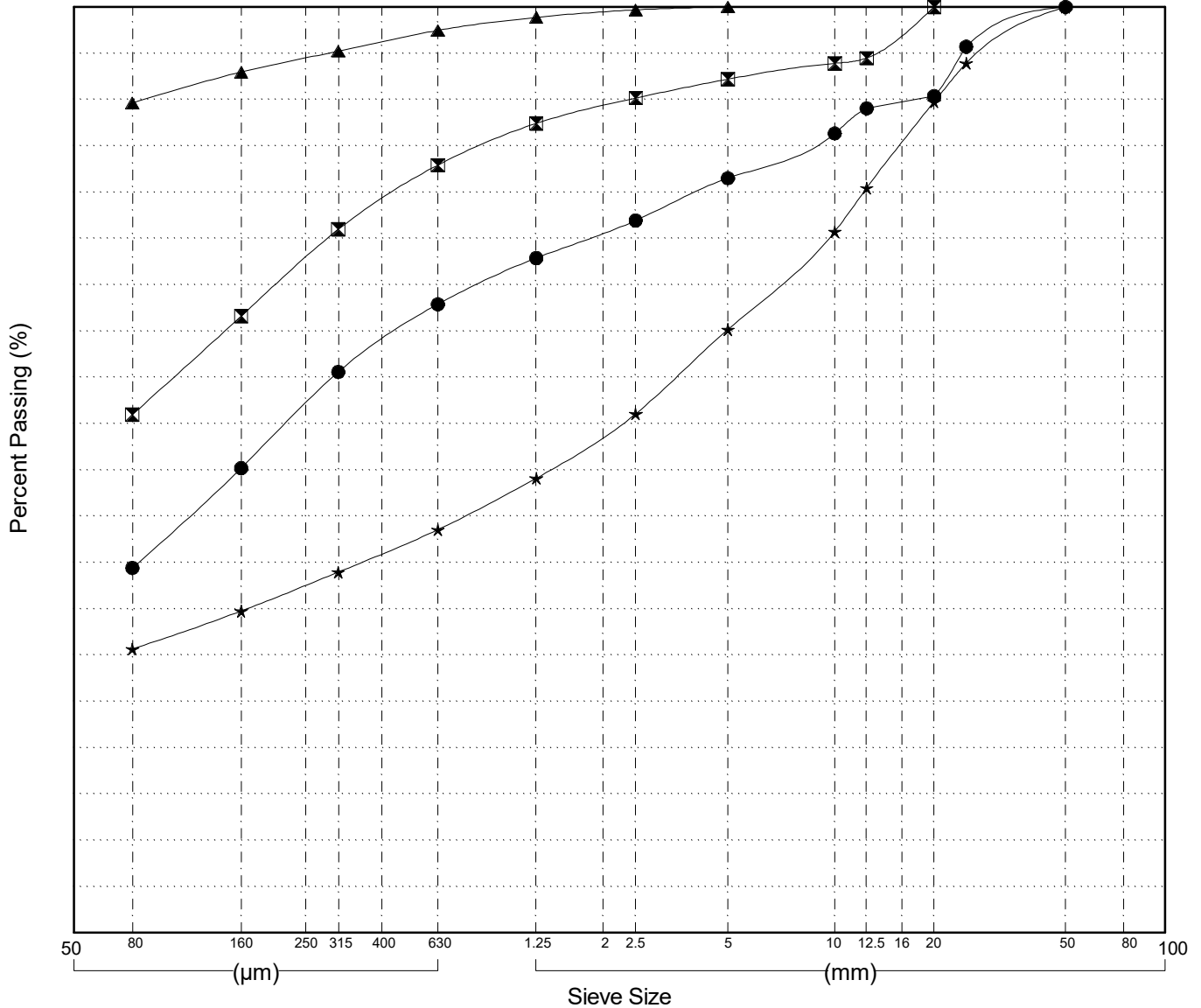
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5500
	km 1427.3 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724494.2m E497961.4m	ELEVATION: 765.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 87	2015-442	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	8.5	NP	NP	NP		
☒ 88	2015-443	1.5 to 3.0	SANDY SILT(ML)	10.5	NP	NP	NP		
▲ 89	2015-444	3.0 to 3.8	SILT(ML)	21.1	NP	NP	NP		
★ 90	2015-445	3.8 to 4.5	SILTY GRAVEL with SAND(GM)	7.1	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 87	2015-442	100.0	100.0	100.0	95.7	90.4	89.0	86.3	81.5	76.9	72.9	67.9	60.6	50.2	39.4	18.5	42.1	39.4		
☒ 88	2015-443	100.0	100.0	100.0	100.0	100.0	94.5	93.9	92.2	90.2	87.4	82.9	76.0	66.6	56.0	7.8	36.2	56.0		
▲ 89	2015-444	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.9	97.5	95.2	93.0	89.6	0.0	10.4	89.6		
★ 90	2015-445	100.0	100.0	100.0	93.9	89.7	80.4	75.7	65.2	56.0	49.1	43.5	39.0	34.8	30.6	34.8	34.5	30.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



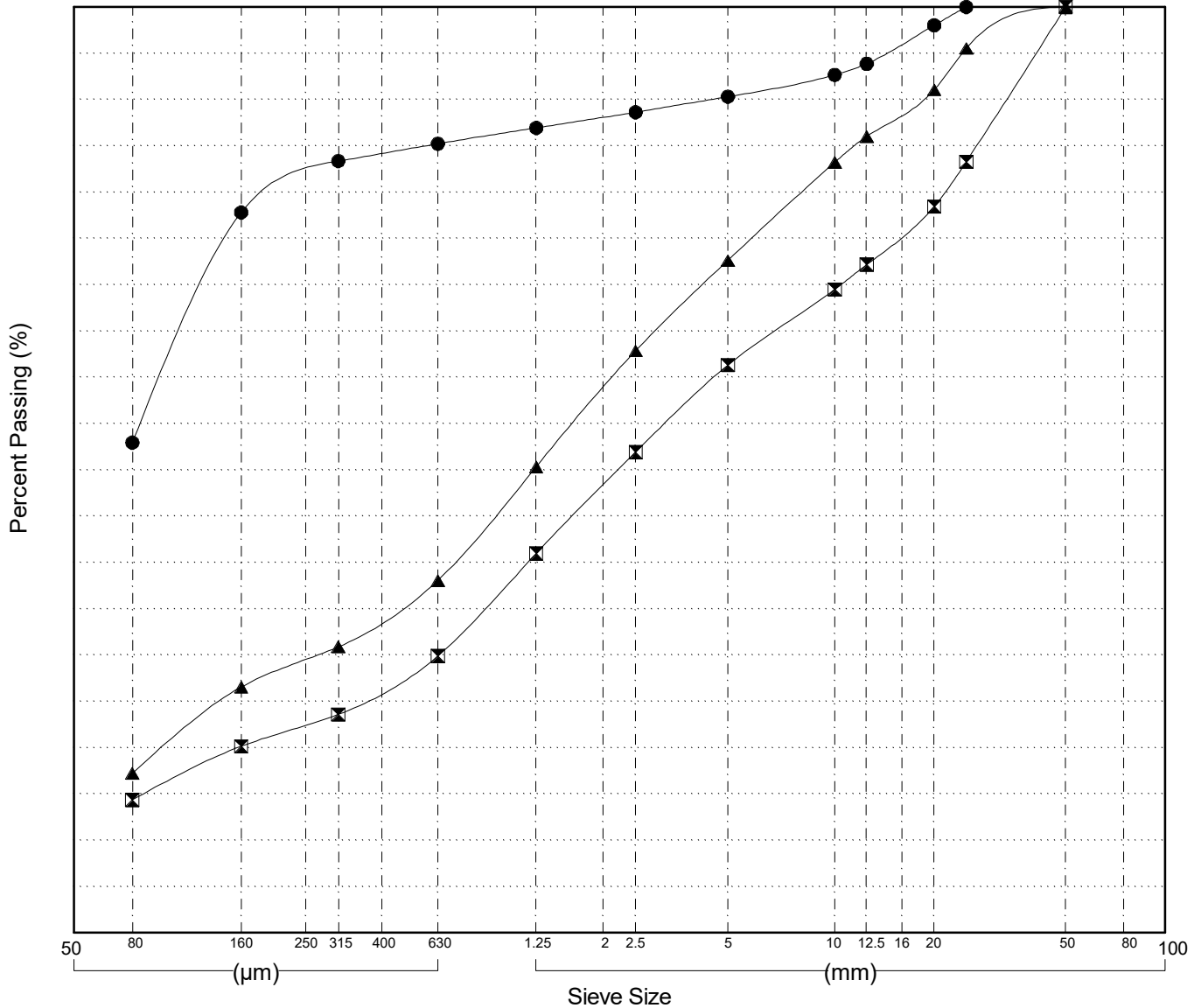
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5501
	km 1426.45 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724494.2m E497961.4m	ELEVATION: 765.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 91	2015-446	0.0 to 1.5	SANDY SILT (ML)	9.5	NP	NP	NP		
☒ 92	2015-447	1.5 to 3.0	SILTY SAND with GRAVEL (SM)	3.0	NP	NP	NP		
▲ 93	2015-448	3.0 to 4.5	SILTY SAND with GRAVEL (SM)	3.7	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 91	2015-446	100.0	100.0	100.0	100.0	98.0	93.9	92.7	90.3	88.6	86.9	85.2	83.4	77.8	52.9	9.7	37.4	52.9		
☒ 92	2015-447	100.0	100.0	100.0	83.3	78.4	72.2	69.5	61.3	51.9	41.0	29.9	23.6	20.1	14.4	38.7	46.9	14.4		
▲ 93	2015-448	100.0	100.0	100.0	95.5	91.1	86.0	83.2	72.6	62.9	50.3	38.1	30.9	26.5	17.2	27.4	55.4	17.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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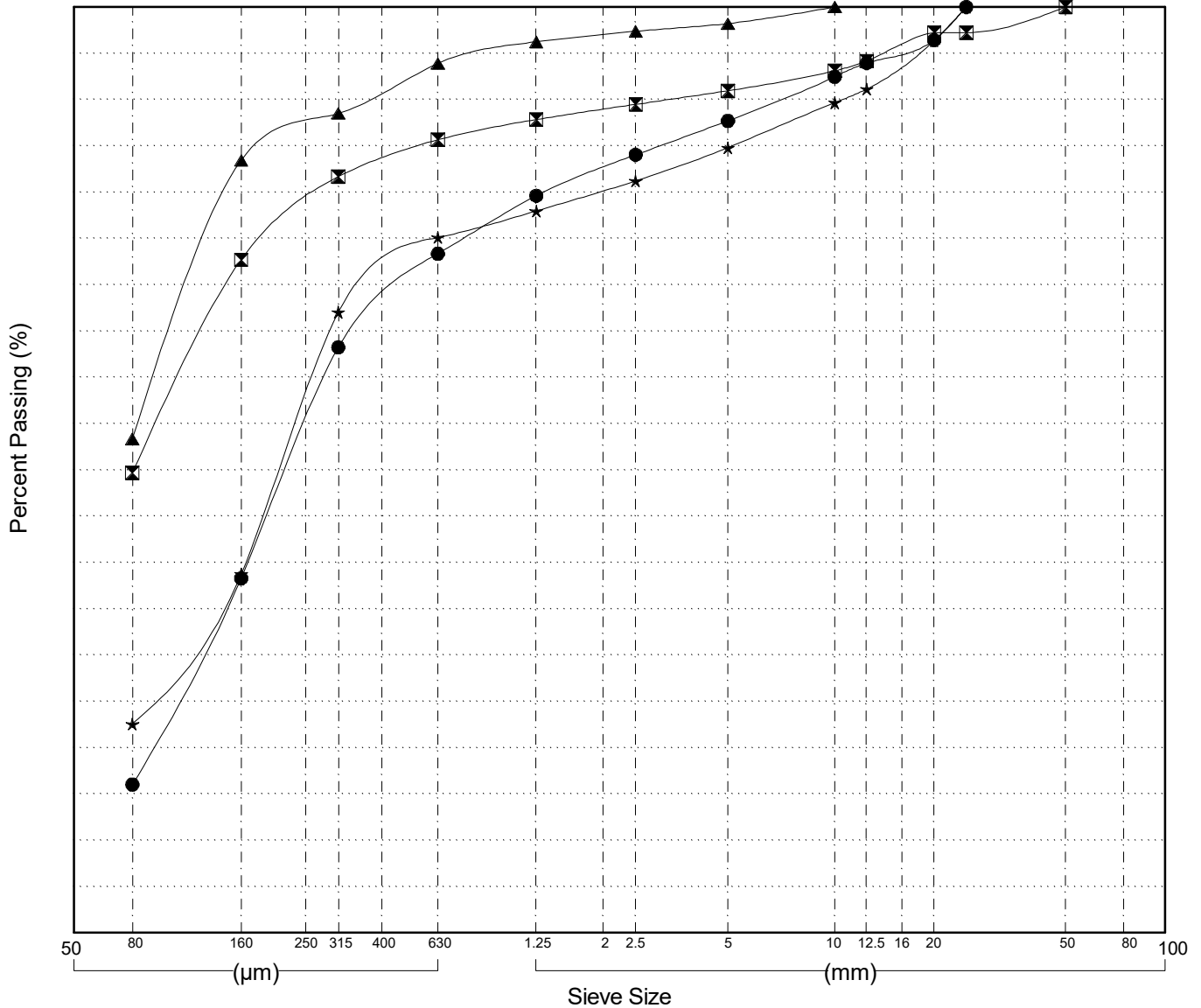
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5502
	km 1426.3 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724241.1m E498067.5m	ELEVATION: 767.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 94	2015-449	0.0 to 1.0	SILTY SAND(SM)		NP	NP	NP		
☒ 95	2015-450	1.0 to 1.5	SILTY SAND(SM)	4.7	NP	NP	NP		
▲ 96	2015-451	1.5 to 3.0	SANDY SILT(ML)	2.1	NP	NP	NP		
★ 97	2015-452	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	3.5	NP	NP	NP		

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 94	2015-449	100.0	100.0	100.0	100.0	96.4	93.9	92.5	87.7	84.0	79.6	73.4	63.2	38.3	16.0	12.3	71.7	16.0	
☒ 95	2015-450	100.0	100.0	100.0	97.2	97.2	94.2	93.1	90.9	89.5	87.8	85.6	81.7	72.7	49.7	9.1	41.3	49.7	
▲ 96	2015-451	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	97.4	96.2	93.9	88.5	83.4	53.3	1.8	44.9	53.3	
★ 97	2015-452	100.0	100.0	100.0	100.0	96.4	91.1	89.7	84.8	81.2	78.0	75.1	67.0	38.7	22.6	15.2	62.2	22.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

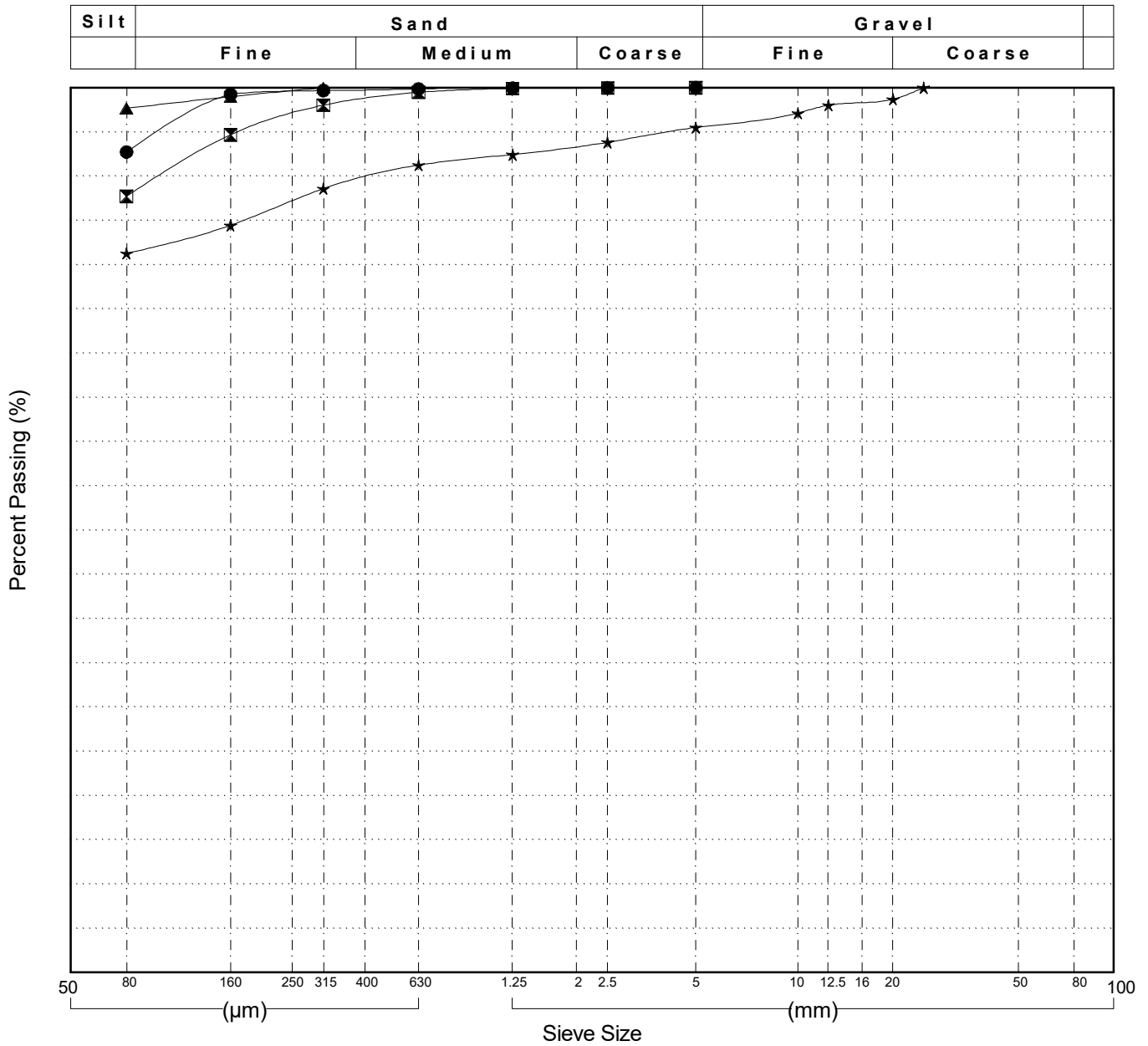


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5503
	km 1426.2 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724200.6m E498159.6m	ELEVATION: 767.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 98	2015-454	0.0 to 1.5	SILT(ML)	0.6	NP	NP	NP		
☒ 99	2015-455	1.5 to 2.1	SILT(ML)	5.0	NP	NP	NP		
▲ 100	2015-456	2.1 to 3.0	SILT(ML)	22.6	NP	NP	NP		
★ 101	2015-457	3.0 to 4.5	SILT with SAND(ML)	21.5	NP	NP	NP		

Field#	Lab#	% PASSING															% Breakdown							
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay				
● 98	2015-454	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	7.3	92.7	
☒ 99	2015-455	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	12.3	87.7	
▲ 100	2015-456	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	2.3	97.7	
★ 101	2015-457	100.0	100.0	100.0	100.0	98.7	98.0	97.1	95.5	93.8	92.4	91.2	88.6	84.5	81.3							4.5	14.2	81.3

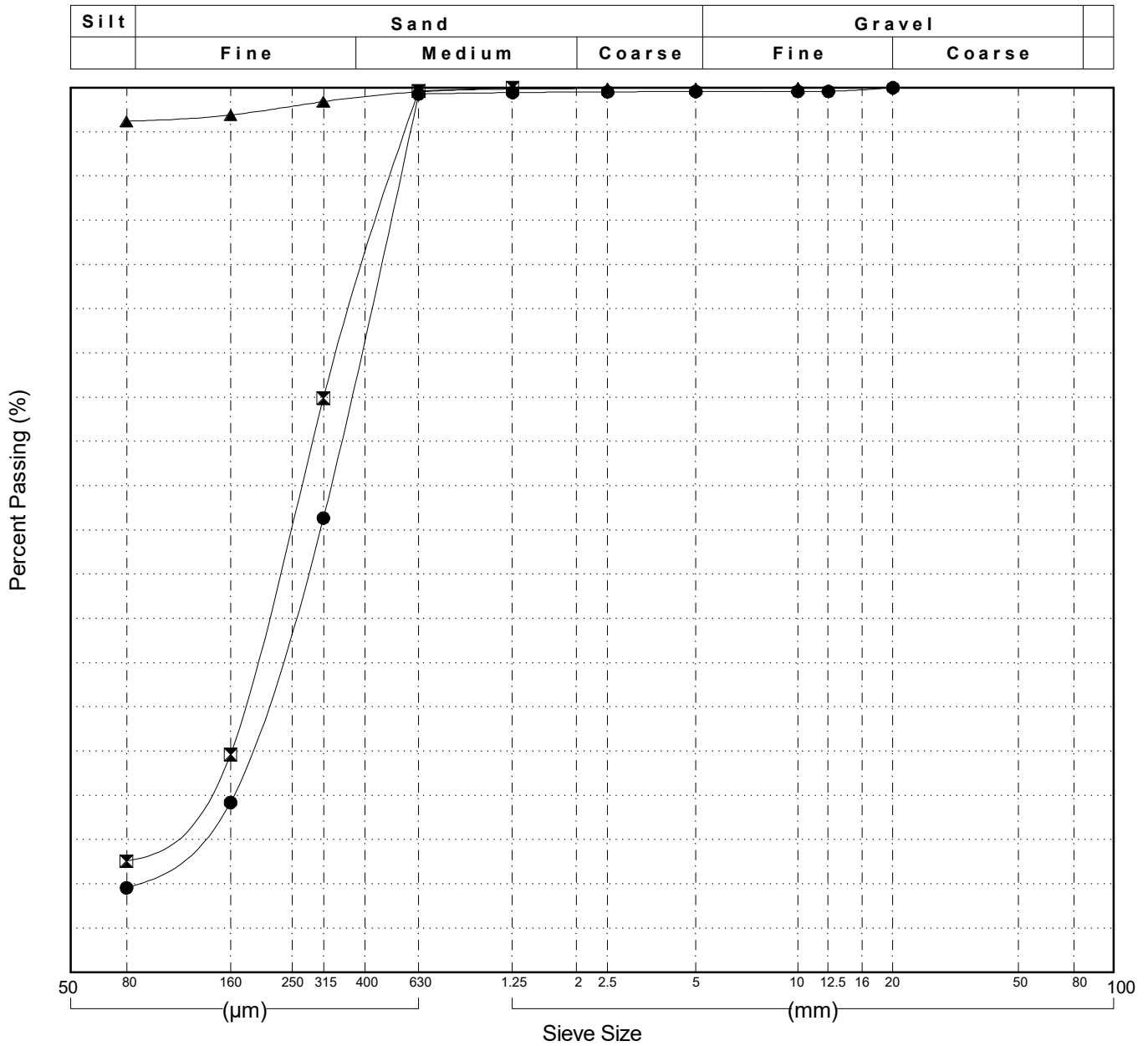


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5504
	km 1424.65 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724200.6m E498159.6m	ELEVATION: 767.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 102	2015-458	0.0 to 1.5	POORLY GRADED SAND with SILT(SP-SM)	2.2	NP	NP	NP	1.5	4.6
☒ 103	2015-459	1.5 to 3.0	SILTY SAND(SM)	0.4	NP	NP	NP		
▲ 104	2015-460	3.0 to 4.5	SILT(ML)	28.7	NP	NP	NP		

Field#	Lab#	% PASSING															% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 102	2015-458	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.6	99.6	99.5	99.4	99.3	51.4	19.2	9.6	0.4	90.0	9.6	
☒ 103	2015-459	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	64.9	24.7	12.6	0.0	87.4	12.6	
▲ 104	2015-460	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.5	98.4	96.9	96.2		0.1	3.7	96.2	

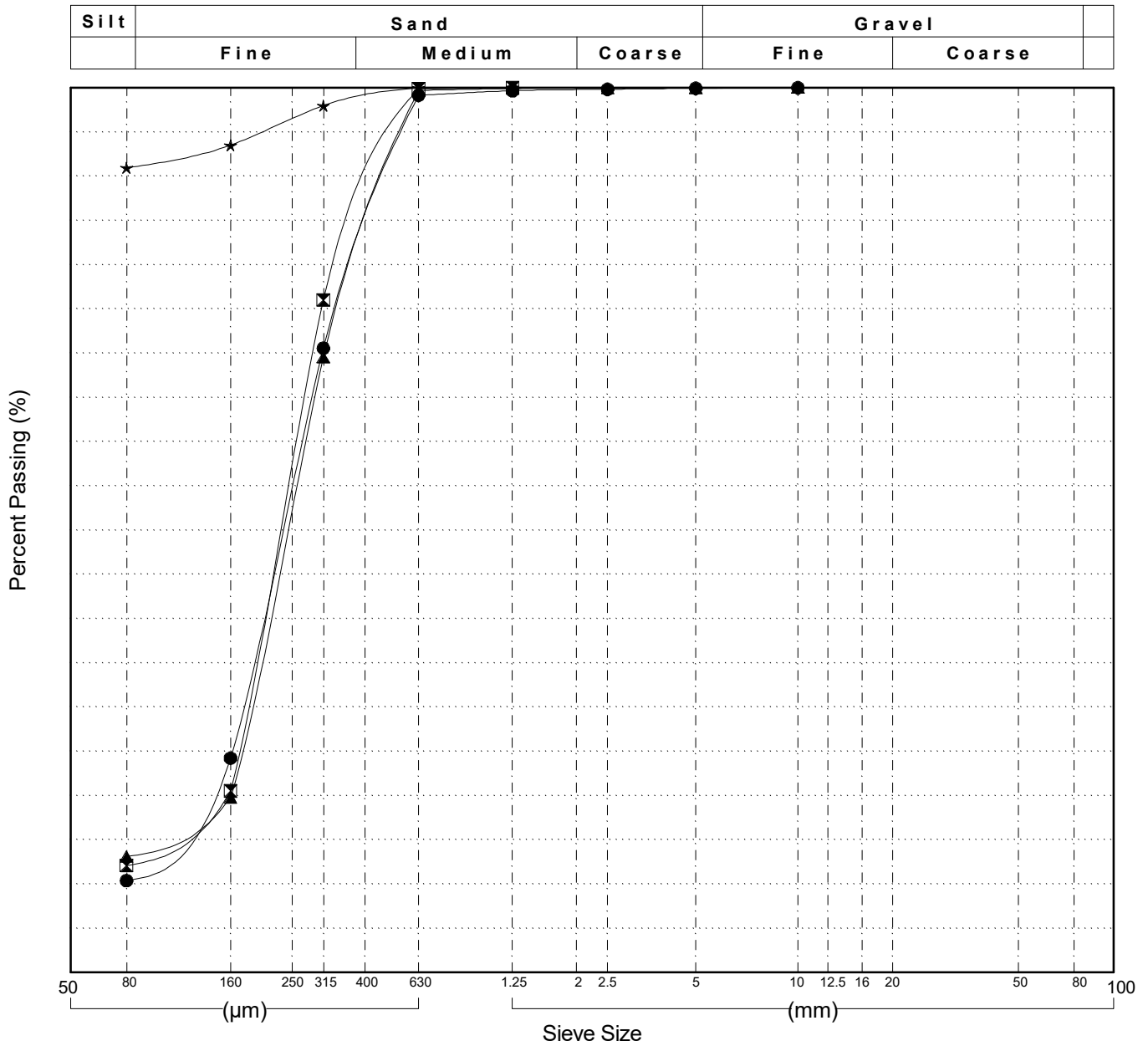


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5505
	km 1424.5 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724114.2m E498200.6m	ELEVATION: 767.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 105	2015-461	0.0 to 1.5	POORLY GRADED SAND with SILT(SP-SM)	0.5	NP	NP	NP	1.5	3.7
☒ 106	2015-462	1.5 to 3.0	SILTY SAND(SM)	1.3	NP	NP	NP	2.0	4.2
▲ 107	2015-463	3.0 to 4.2	SILTY SAND(SM)	0.9	NP	NP	NP		
★ 108	2015-464	4.2 to 4.5	SILT(ML)	22.8	NP	NP	NP		

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 105	2015-461	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	99.1	70.6	24.2	10.4	0.1	89.6	10.4	
☒ 106	2015-462	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	76.0	20.5	12.1	0.0	87.9	12.1	
▲ 107	2015-463	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.7	69.5	19.8	13.1	0.0	86.8	13.1	
★ 108	2015-464	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	93.5	90.9	0.0	9.1	90.9	

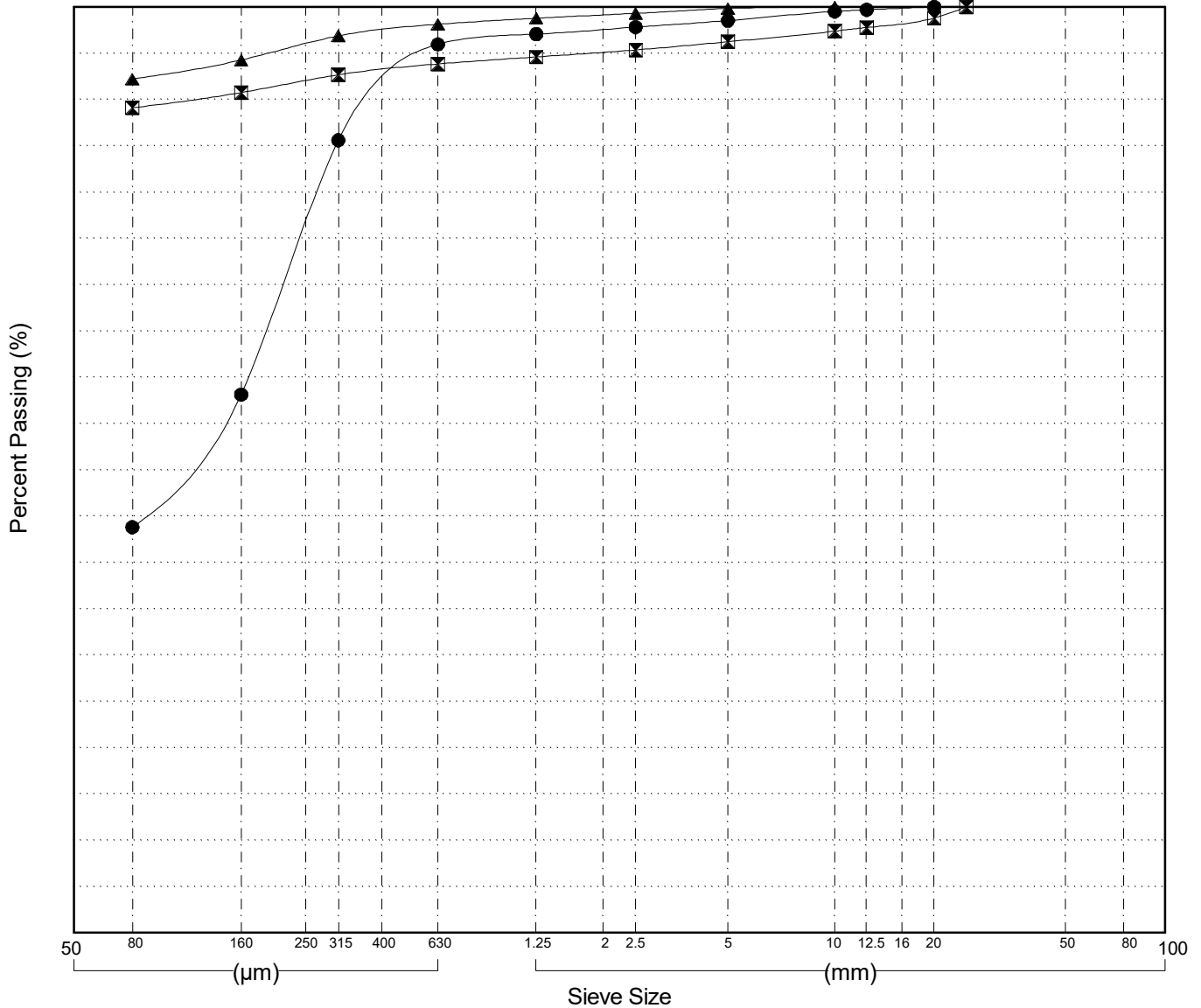


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5506
	km 1424.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6724106.6m E498301.3m	ELEVATION: 767.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu
● 109	2015-465	0.0 to 1.5	SILTY SAND(SM)											4.3	NP	NP	NP		
☒ 110	2015-466	1.5 to 3.0	SILT(ML)											14.8	NP	NP	NP		
▲ 111	2015-467	3.0 to 4.5	SILT(ML)											27.3	NP	NP	NP		
Field#	Lab#	% PASSING											% Breakdown						
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 109	2015-465	100.0	100.0	100.0	100.0	100.0	99.7	99.5	98.5	97.8	97.1	96.0	85.6	58.1	43.8	1.5	54.7	43.8	
☒ 110	2015-466	100.0	100.0	100.0	100.0	98.8	97.8	97.4	96.2	95.3	94.6	93.8	92.7	90.7	89.1	3.8	7.1	89.1	
▲ 111	2015-467	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.3	98.8	98.1	96.9	94.3	92.2	0.2	7.6	92.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

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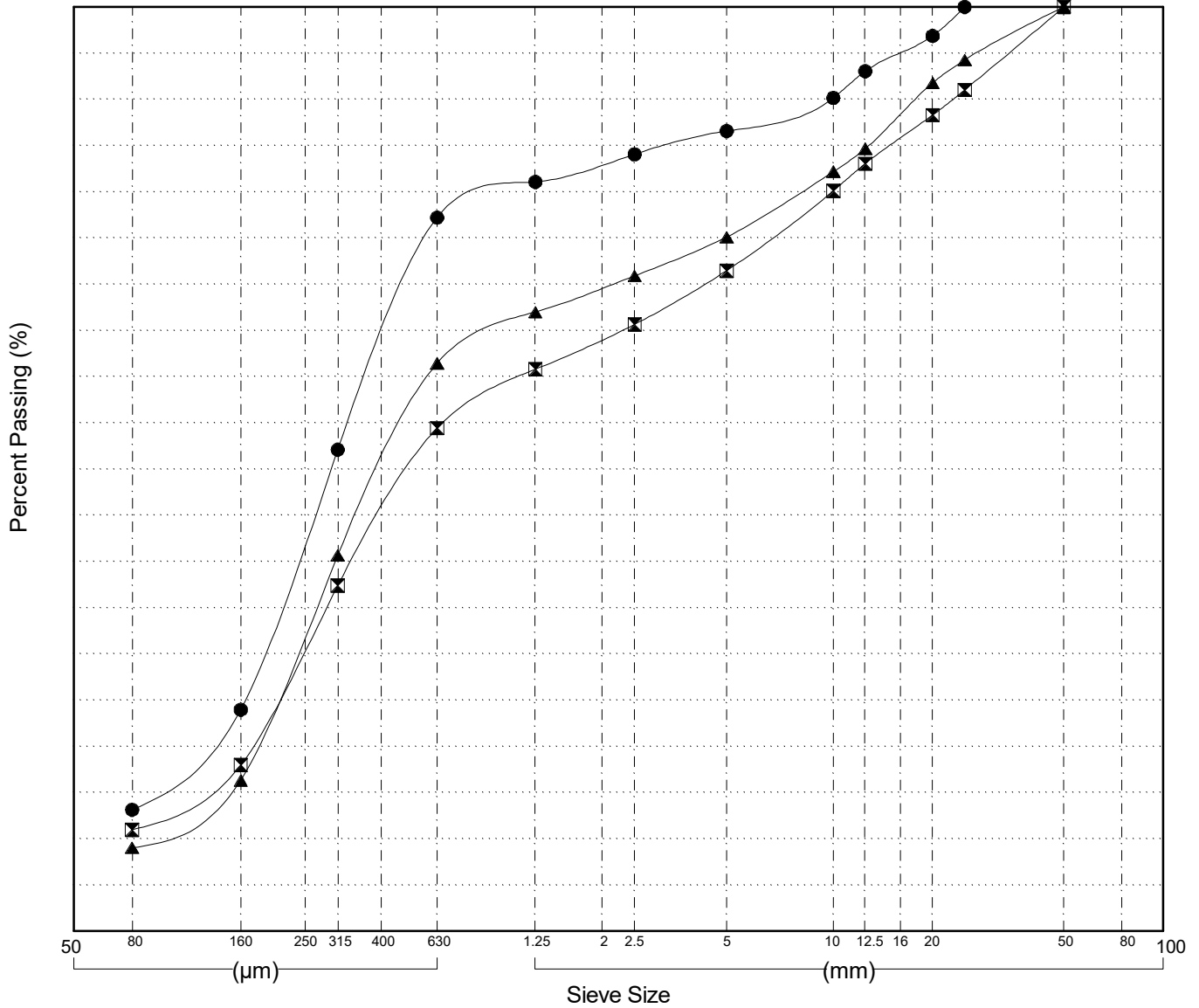
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5507
	km 1424.2 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6723914.2m E498595.7m	ELEVATION: 769.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 112	2015-468	0.0 to 1.5	SILTY SAND(SM)	3.0	NP	NP	NP		
☒ 113	2015-469	1.5 to 3.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	0.4	NP	NP	NP	0.8	17.0
▲ 114	2015-470	3.0 to 4.5	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	0.4	NP	NP	NP	1.1	7.2

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 112	2015-468	100.0	100.0	100.0	100.0	96.9	93.0	90.2	86.6	84.1	81.1	77.2	52.1	24.0	13.1	13.4	73.4	13.1	
☒ 113	2015-469	100.0	100.0	100.0	91.0	88.3	83.0	80.1	71.5	65.7	60.8	54.4	37.4	18.0	11.0	28.5	60.5	11.0	
▲ 114	2015-470	100.0	100.0	100.0	94.3	91.8	84.7	82.2	75.1	70.9	67.0	61.4	40.7	16.3	9.0	24.9	66.1	9.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

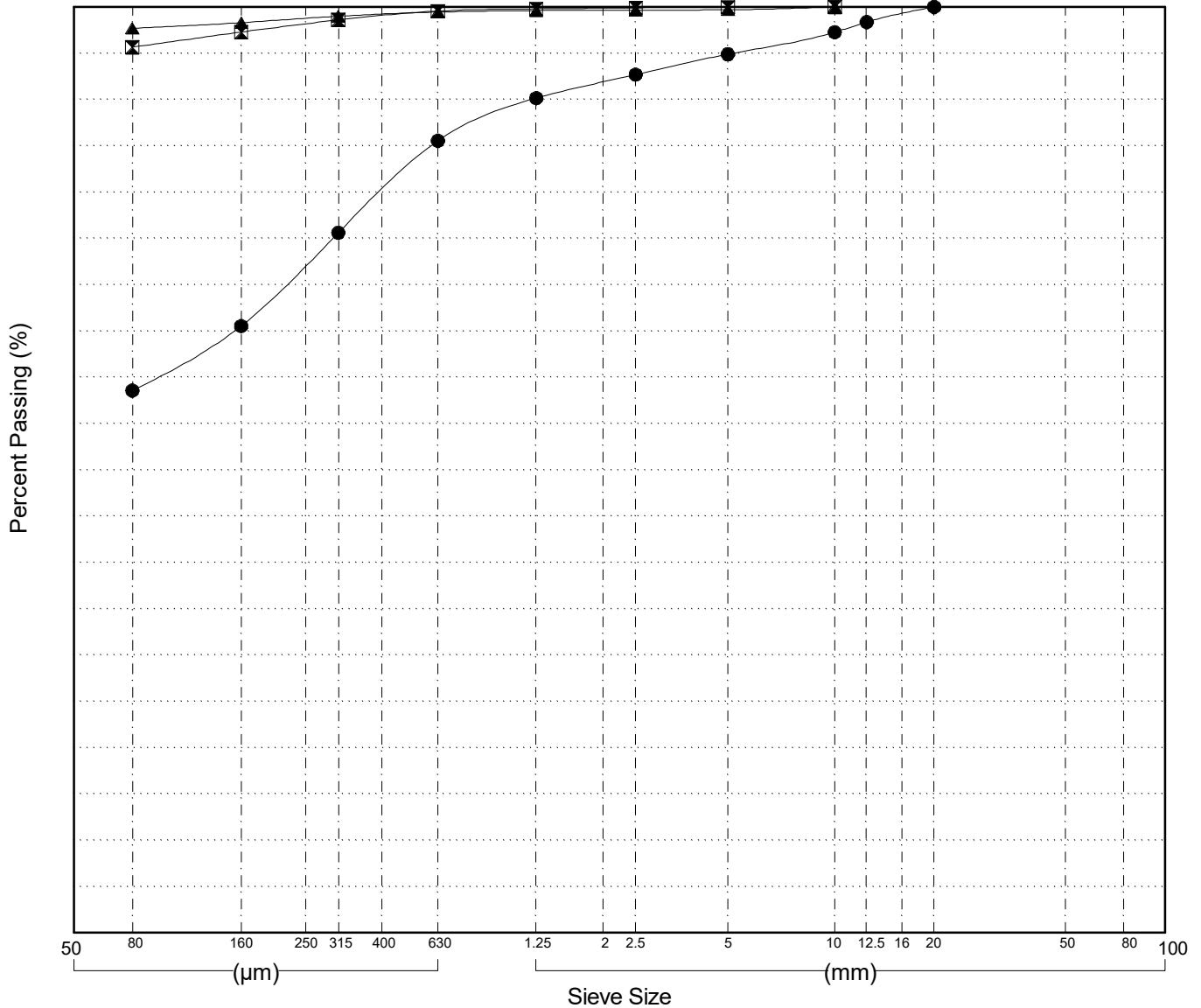


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5508
	km 1423.7 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6723868.4m E498679.2m	ELEVATION: 769.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu	
● 115	2015-471	0.0 to 1.5	SANDY SILT (ML)											8.6	NP	NP	NP			
☒ 116	2015-472	1.5 to 3.0	SILT (ML)											23.9	NP	NP	NP			
▲ 117	2015-473	3.0 to 4.5	SILT (ML)											25.2	NP	NP	NP			
Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
● 115	2015-471		100.0	100.0	100.0	100.0	100.0	98.4	97.3	94.9	92.7	90.2	85.5	75.6	65.5	58.6	5.1	36.3	58.6	
☒ 116	2015-472		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.5	98.6	97.3	95.7	0.0	4.3	95.7	
▲ 117	2015-473		100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.7	99.6	99.4	99.0	98.3	97.7	0.3	2.0	97.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

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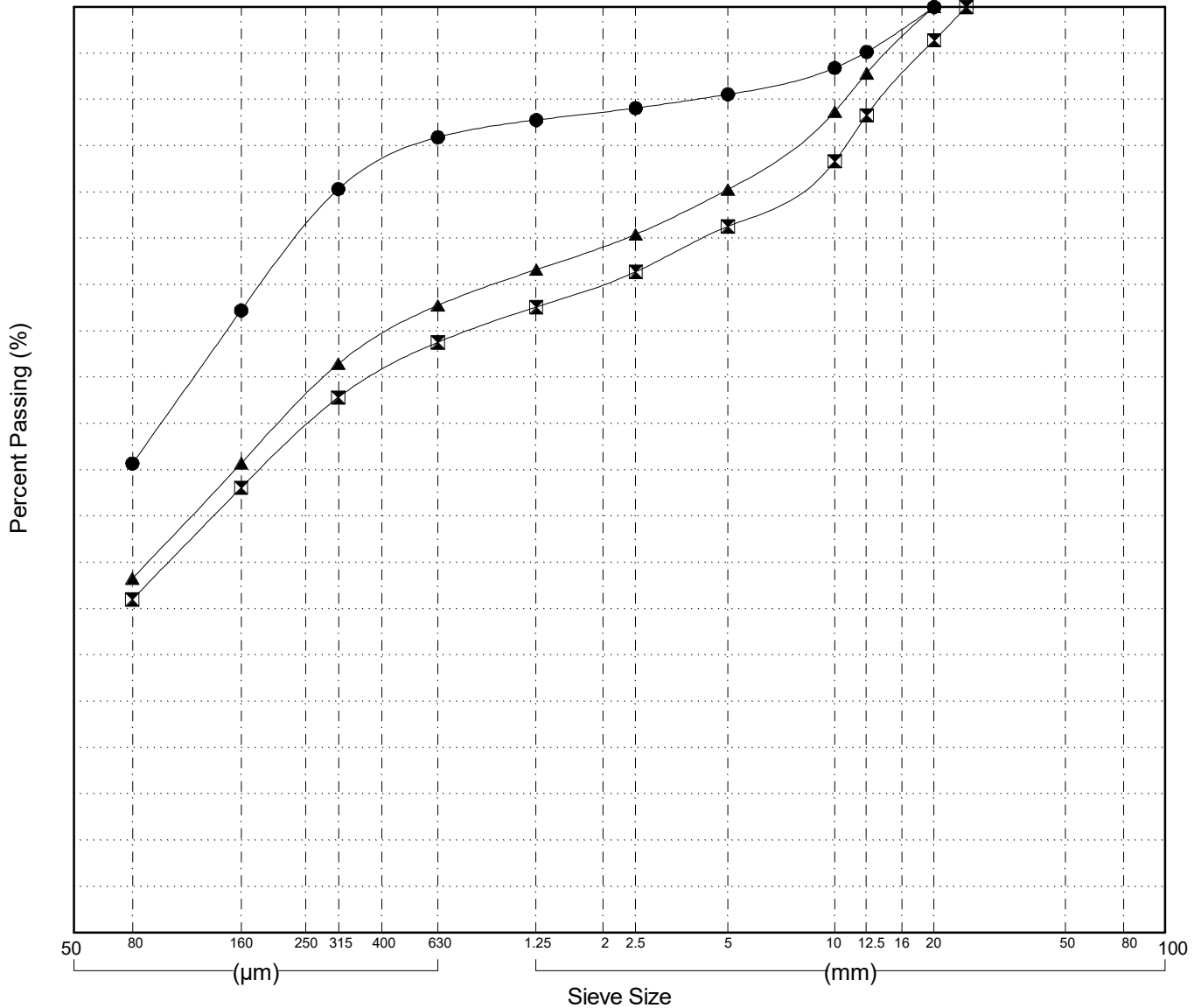
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5509
	km 1421.7 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6723868.4m E498679.2m	ELEVATION: 769.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 118	2015-474	0.0 to 1.5	SANDY SILT (ML)	6.1	NP	NP	NP		
☒ 119	2015-475	1.5 to 3.0	SILTY SAND with GRAVEL (SM)	1.9	NP	NP	NP		
▲ 120	2015-476	3.0 to 4.5	SILTY SAND with GRAVEL (SM)	2.8	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 118	2015-474	100.0	100.0	100.0	100.0	100.0	95.1	93.4	90.6	89.1	87.8	85.9	80.3	67.2	50.7	9.4	39.9	50.7	
☒ 119	2015-475	100.0	100.0	100.0	100.0	96.4	88.3	83.3	76.3	71.4	67.6	63.8	57.8	48.1	36.0	23.7	40.3	36.0	
▲ 120	2015-476	100.0	100.0	100.0	100.0	100.0	92.8	88.7	80.3	75.4	71.6	67.8	61.5	50.7	38.3	19.7	42.0	38.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



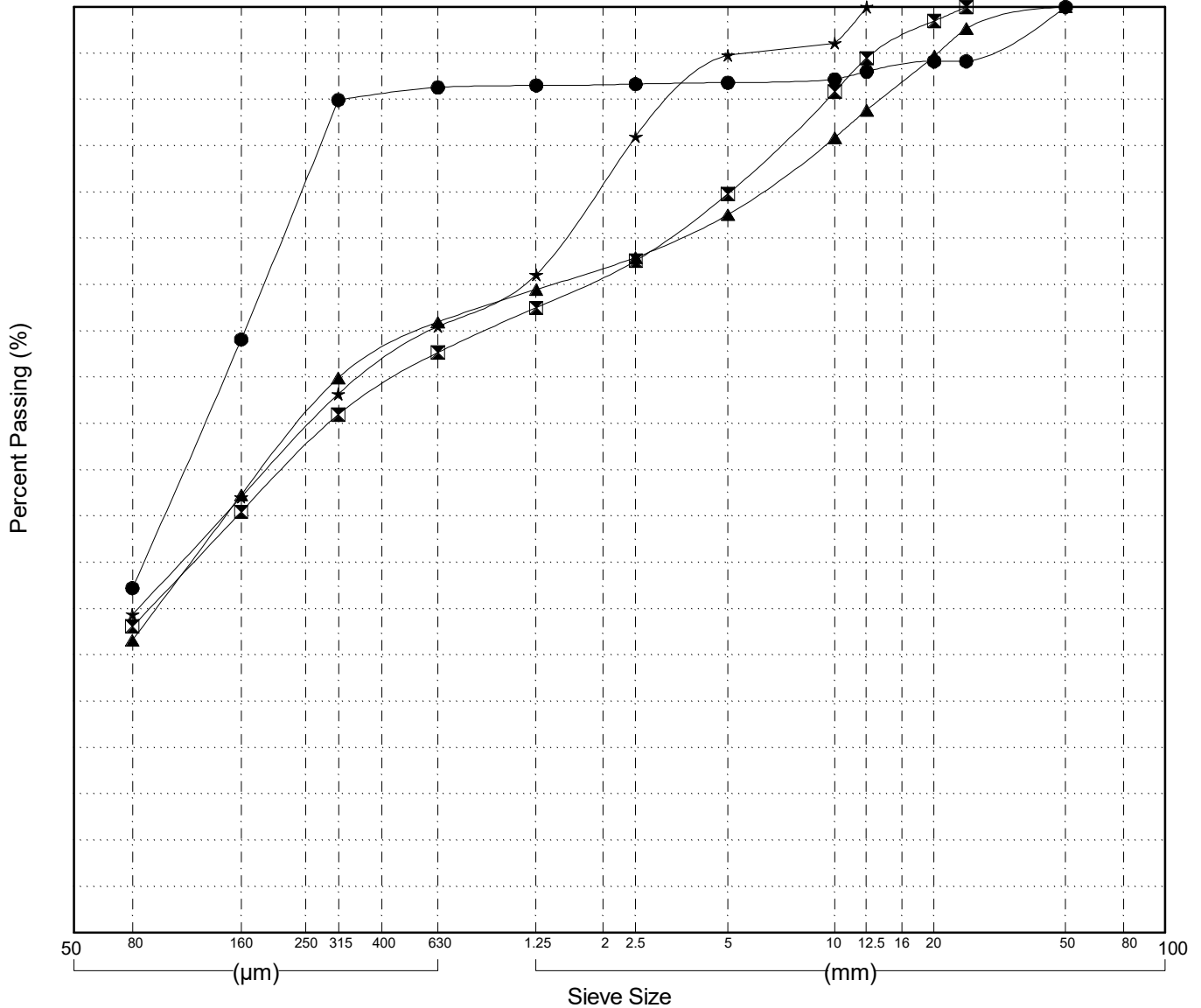
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5510
	km 1421.6 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6723725.3m E498889.5m	ELEVATION: 769m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 121	2015-477	0.0 to 1.5	SILTY SAND(SM)	3.6	NP	NP	NP		
☒ 122	2015-478	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	1.2	NP	NP	NP		
▲ 123	2015-479	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	1.7	NP	NP	NP		
★ 124	2015-480	4.5 to 6.0	SILTY SAND(SM)	2.0	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 121	2015-477	100.0	100.0	100.0	100.0	94.1	94.1	93.0	92.2	91.8	91.7	91.5	91.3	89.9	64.1	37.2	8.2	54.6	37.2	
☒ 122	2015-478	100.0	100.0	100.0	100.0	98.5	94.5	90.8	79.8	72.6	67.5	62.7	56.0	45.5	33.1	20.2	46.7	33.1		
▲ 123	2015-479	100.0	100.0	100.0	97.7	94.7	88.9	85.9	77.6	72.9	69.5	66.0	59.9	47.3	31.6	22.4	45.9	31.6		
★ 124	2015-480	100.0	100.0	100.0	100.0	100.0	96.1	94.8	86.0	71.1	65.5	58.2	47.1	34.4	5.2	60.4	34.4			

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



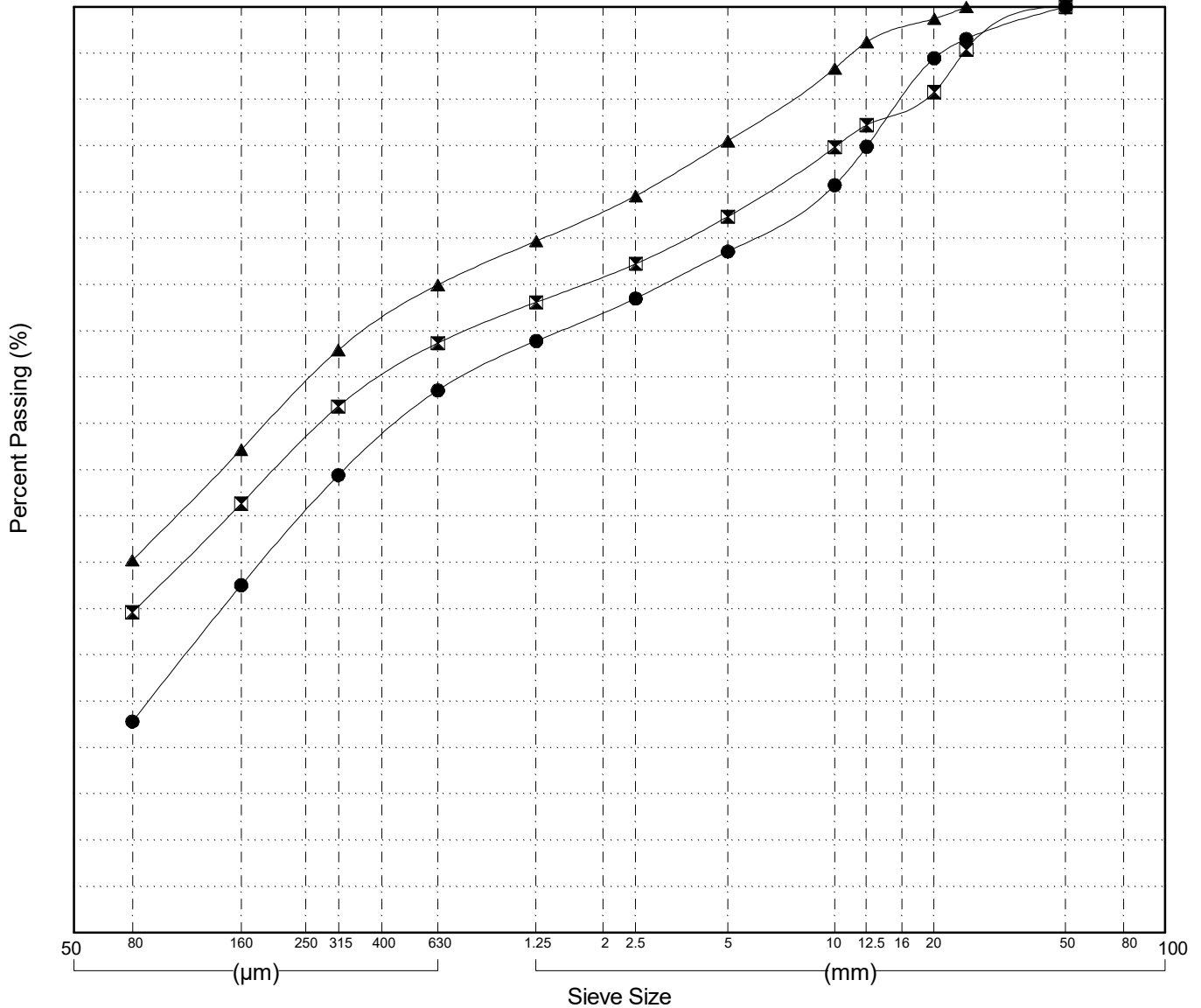
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5511
	km 1421.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6723341m E499345.8m	ELEVATION: 773.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 125	2015-481	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	1.0	NP	NP	NP		
☒ 126	2015-482	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	2.4	NP	NP	NP		
▲ 127	2015-483	3.0 to 4.5	SILTY SAND(SM)	1.0	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 125	2015-481	100.0	100.0	100.0	96.5	94.5	84.9	80.7	73.6	68.5	63.9	58.6	49.4	37.5	22.8	26.4	50.8	22.8		
☒ 126	2015-482	100.0	100.0	100.0	95.4	90.8	87.2	84.9	77.3	72.3	68.1	63.7	56.9	46.3	34.6	22.7	42.7	34.6		
▲ 127	2015-483	100.0	100.0	100.0	100.0	98.7	96.2	93.4	85.5	79.6	74.7	70.0	62.9	52.2	40.3	14.5	45.3	40.3		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



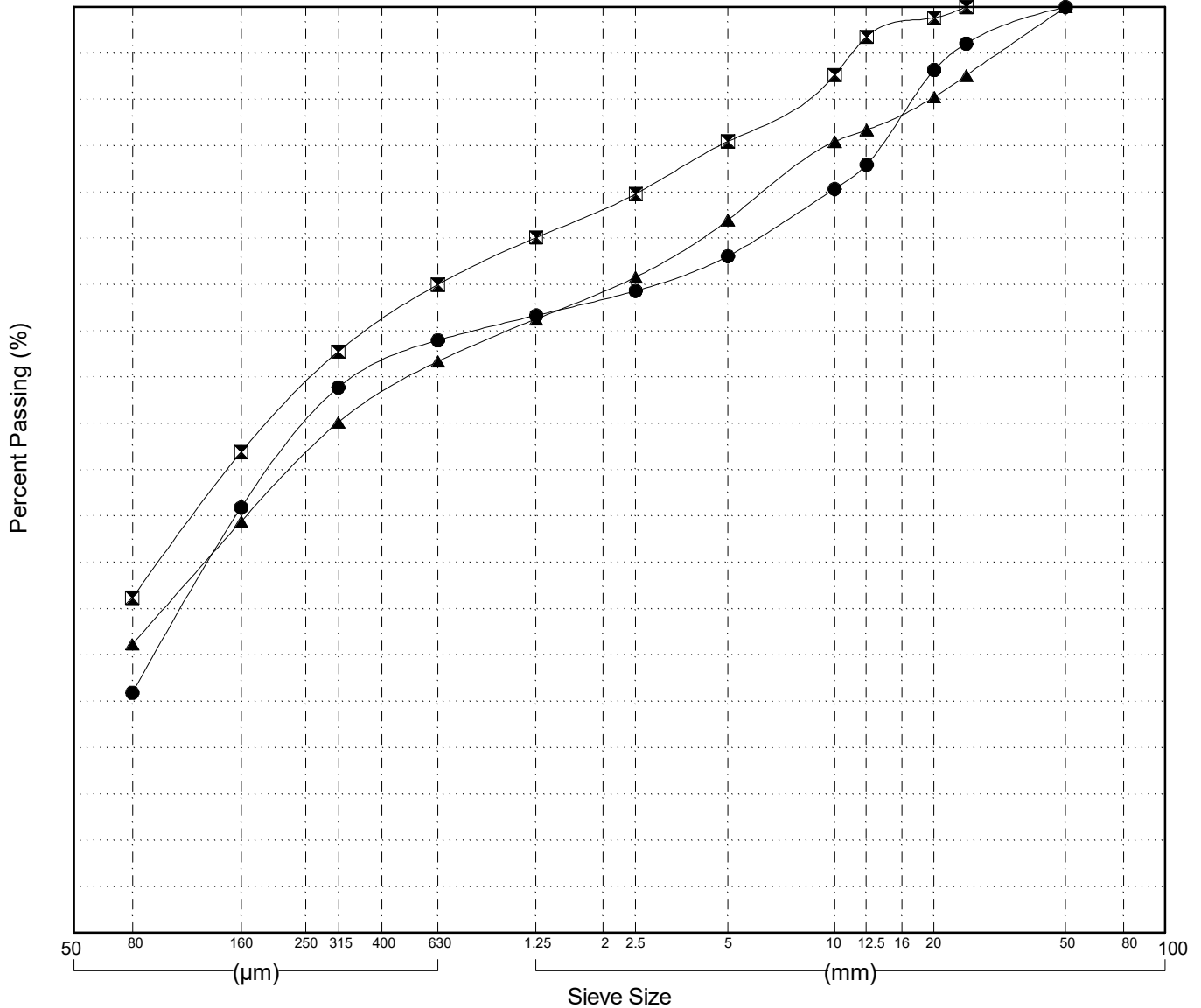
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5512
	km 1421.2 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6723328m E499420.8m	ELEVATION: 773.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 128	2015-484	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	1.6	NP	NP	NP		
☒ 129	2015-485	1.5 to 3.0	SILTY SAND(SM)	3.7	NP	NP	NP		
▲ 130	2015-486	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	1.7	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 128	2015-484	100.0	100.0	100.0	96.0	93.2	83.0	80.3	73.1	69.3	66.7	64.0	58.9	45.9	25.9	26.9	47.1	25.9	
☒ 129	2015-485	100.0	100.0	100.0	100.0	98.8	96.8	92.7	85.5	79.8	75.1	70.0	62.8	51.9	36.2	14.5	49.3	36.2	
▲ 130	2015-486	100.0	100.0	100.0	92.6	90.3	86.7	85.5	77.0	70.8	66.3	61.7	55.1	44.4	31.2	23.0	45.8	31.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

Pit #
Complete: 9/26/2015

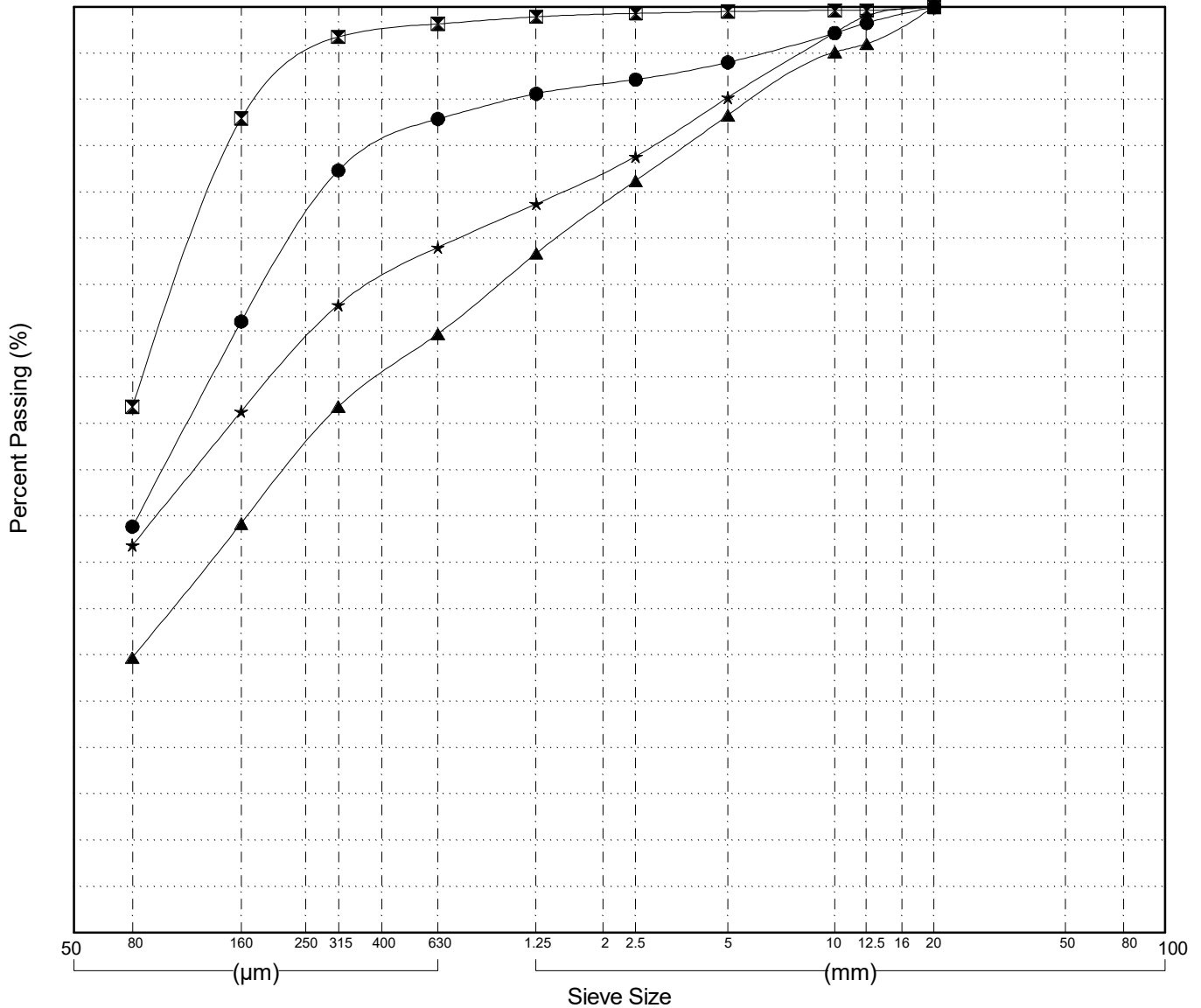
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5513
	km 1421.0 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6723170.1m E499490.9m	ELEVATION: 769.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 131	2015-487	0.0 to 1.0	SILTY SAND(SM)	4.1	NP	NP	NP		
☒ 132	2015-488	1.0 to 1.5	SANDY SILT(ML)	1.7	NP	NP	NP		
▲ 133	2015-489	1.5 to 3.0	SILTY SAND(SM)	2.6	NP	NP	NP		
★ 134	2015-490	3.0 to 4.5	SILTY SAND(SM)	2.6	NP	NP	NP		

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 131	2015-487	100.0	100.0	100.0	100.0	100.0	98.3	97.2	94.0	92.2	90.6	87.9	82.3	66.0	43.9	6.0	50.1	43.9	
☒ 132	2015-488	100.0	100.0	100.0	100.0	100.0	99.6	99.6	99.5	99.3	98.9	98.2	96.8	87.9	56.8	0.5	42.7	56.8	
▲ 133	2015-489	100.0	100.0	100.0	100.0	100.0	96.0	95.1	88.3	81.2	73.4	64.7	56.8	44.2	29.7	11.7	58.6	29.7	
★ 134	2015-490	100.0	100.0	100.0	100.0	100.0	99.1	97.2	90.2	83.8	78.7	74.0	67.8	56.3	41.9	9.8	48.3	41.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



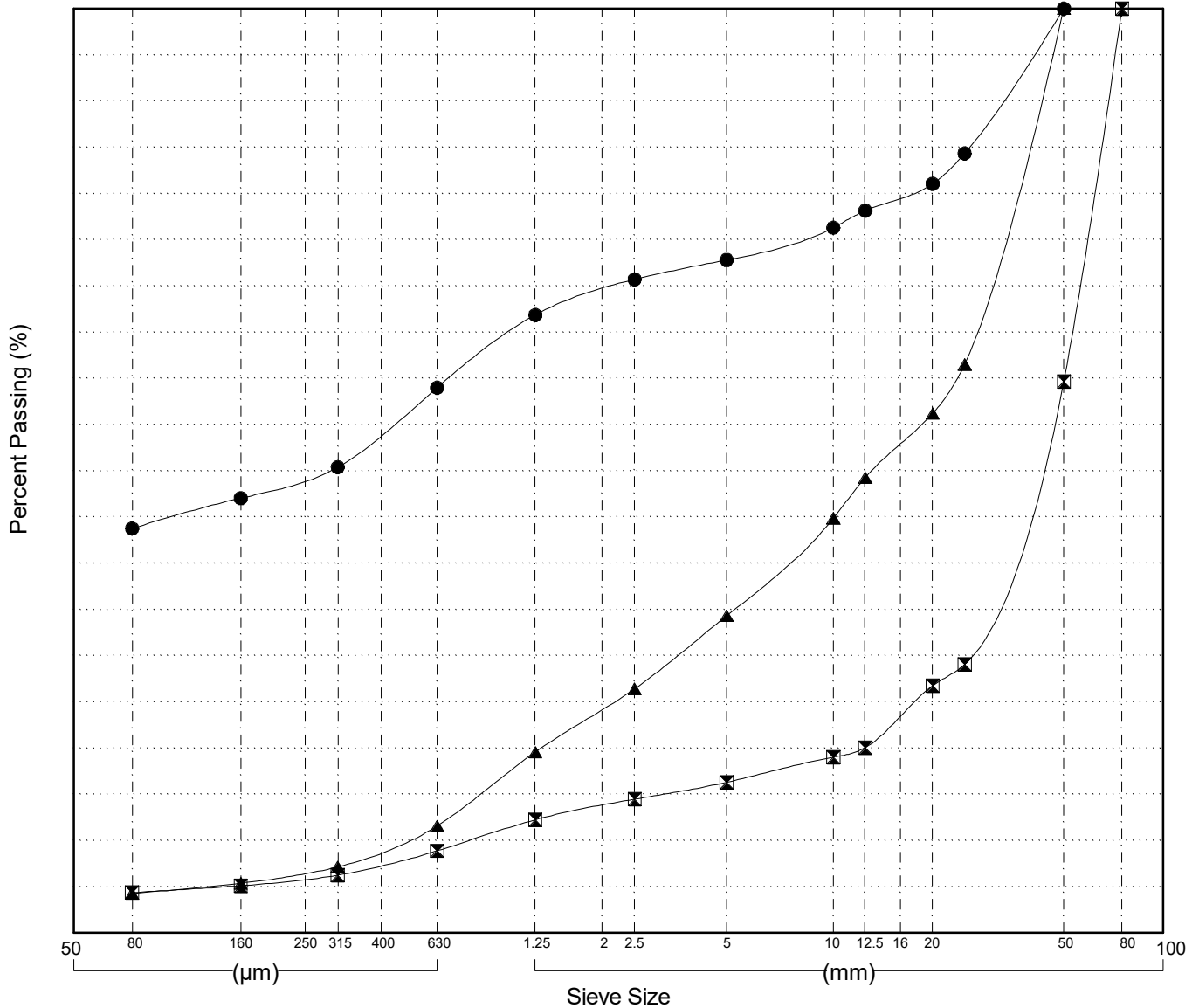
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5514
	km 1419.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6722707.5m E499721.9m	ELEVATION: 771.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 135	2015-491	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	3.1	NP	NP	NP		
☒ 136	2015-492	1.5 to 3.0	POORLY GRADED GRAVEL(GP)	0.2	NP	NP	NP	16.5	63.5
▲ 137	2015-493	3.0 to 4.5	POORLY GRADED GRAVEL with SAND(GP)	0.5	NP	NP	NP	1.0	47.7

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown			
																Gravel	Sand	Silt	Clay
● 135	2015-491	100.0	100.0	100.0	84.3	81.1	78.2	76.3	72.8	70.7	66.9	59.0	50.4	47.0	43.8	27.2	29.0	43.8	
☒ 136	2015-492	100.0	100.0	59.7	29.0	26.8	20.1	19.0	16.3	14.5	12.2	8.9	6.3	5.1	4.4	83.7	11.9	4.4	
▲ 137	2015-493	100.0	100.0	100.0	61.5	56.2	49.3	44.9	34.3	26.4	19.6	11.6	7.2	5.4	4.3	65.7	30.0	4.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

Pit #
Complete: 9/26/2015

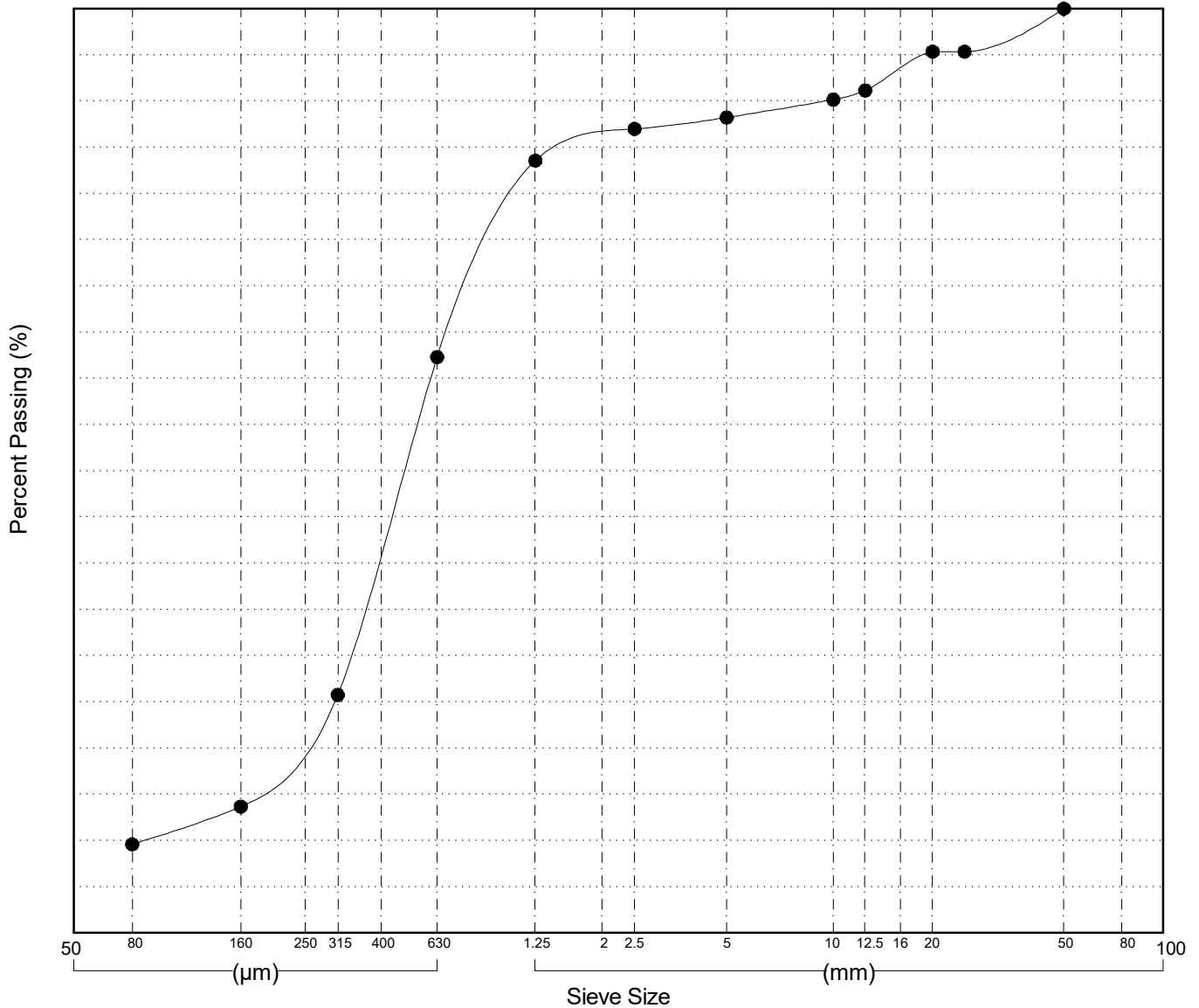
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5515
	km 1419.2 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6722586.1m E499786m	ELEVATION: 765.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 138	2015-494	0.0 to 1.5	WELL-GRADED SAND with SILT(SW-SM)	1.5	NP	NP	NP	2.4	7.5
Field#	Lab#								
● 138	2015-494								

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
		100.0	100.0	100.0	95.4	95.4	91.1	90.2	88.2	87.0	83.6	62.3	25.8	13.7	9.6	Gravel	Sand	Silt	Clay
● 138	2015-494	100.0	100.0	100.0	95.4	95.4	91.1	90.2	88.2	87.0	83.6	62.3	25.8	13.7	9.6	11.8	78.6	9.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



**Highways and Public Works
Transportation Engineering Branch**

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 COMPILED BY: R.Kennedy-Kuiper
 REVIEWED BY: R.Stilwell

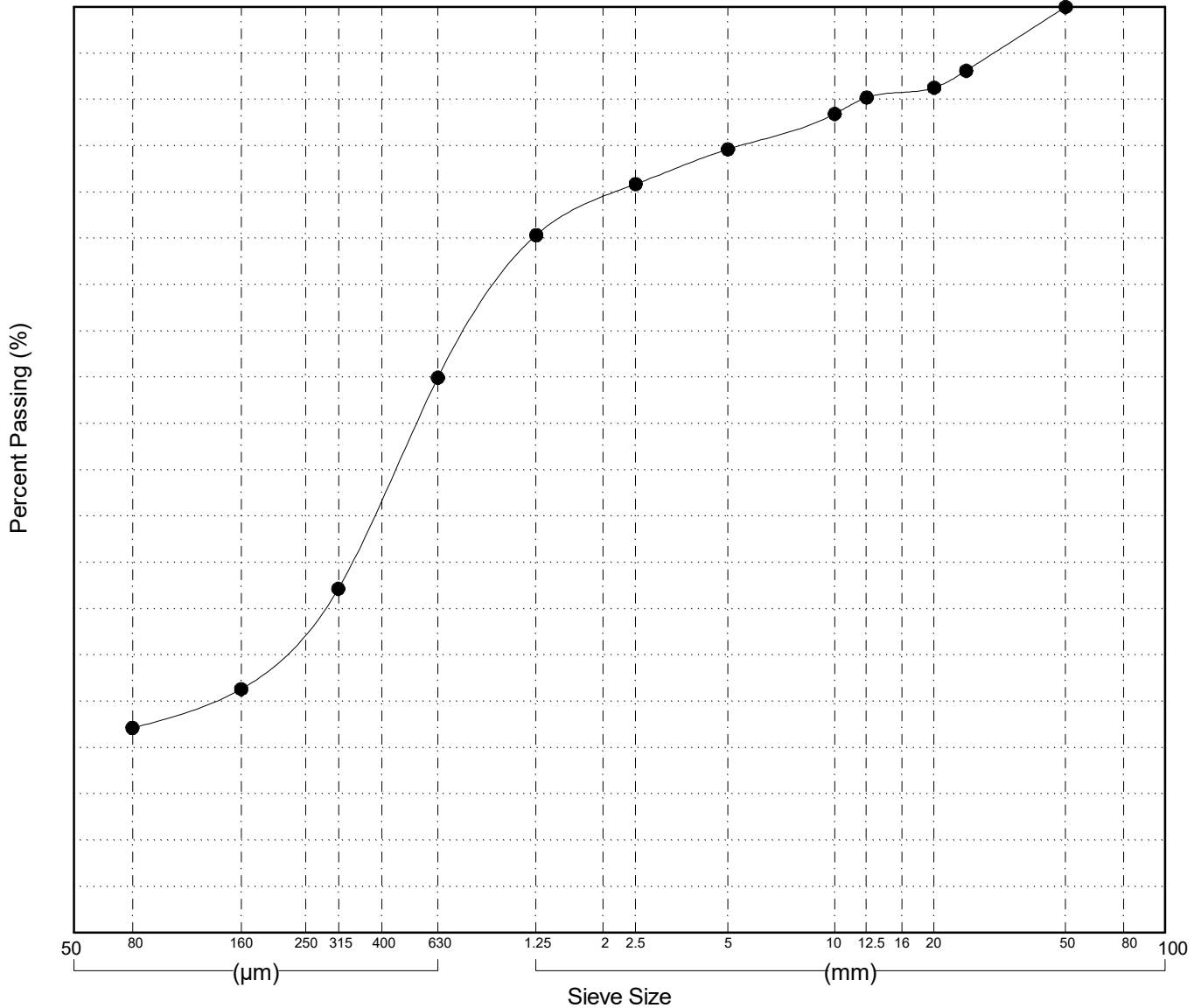
Pit #
 Complete: 9/26/2015

GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5516
	km 1419.2 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6722707.5m E499721.9m	ELEVATION: 771.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu
● 139	2015-495	0.0 to 1.5	SILTY SAND with GRAVEL(SM)											1.7	NP	NP	NP		
Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown			
● 139	2015-495	100.0	100.0	100.0	93.1	91.3	90.2	88.5	84.6	80.9	75.4	60.0	37.2	26.3	22.1	Gravel	Sand	Silt	Clay
																15.4	62.5	22.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
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REVIEWED BY: R.Stilwell

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Complete: 9/26/2015

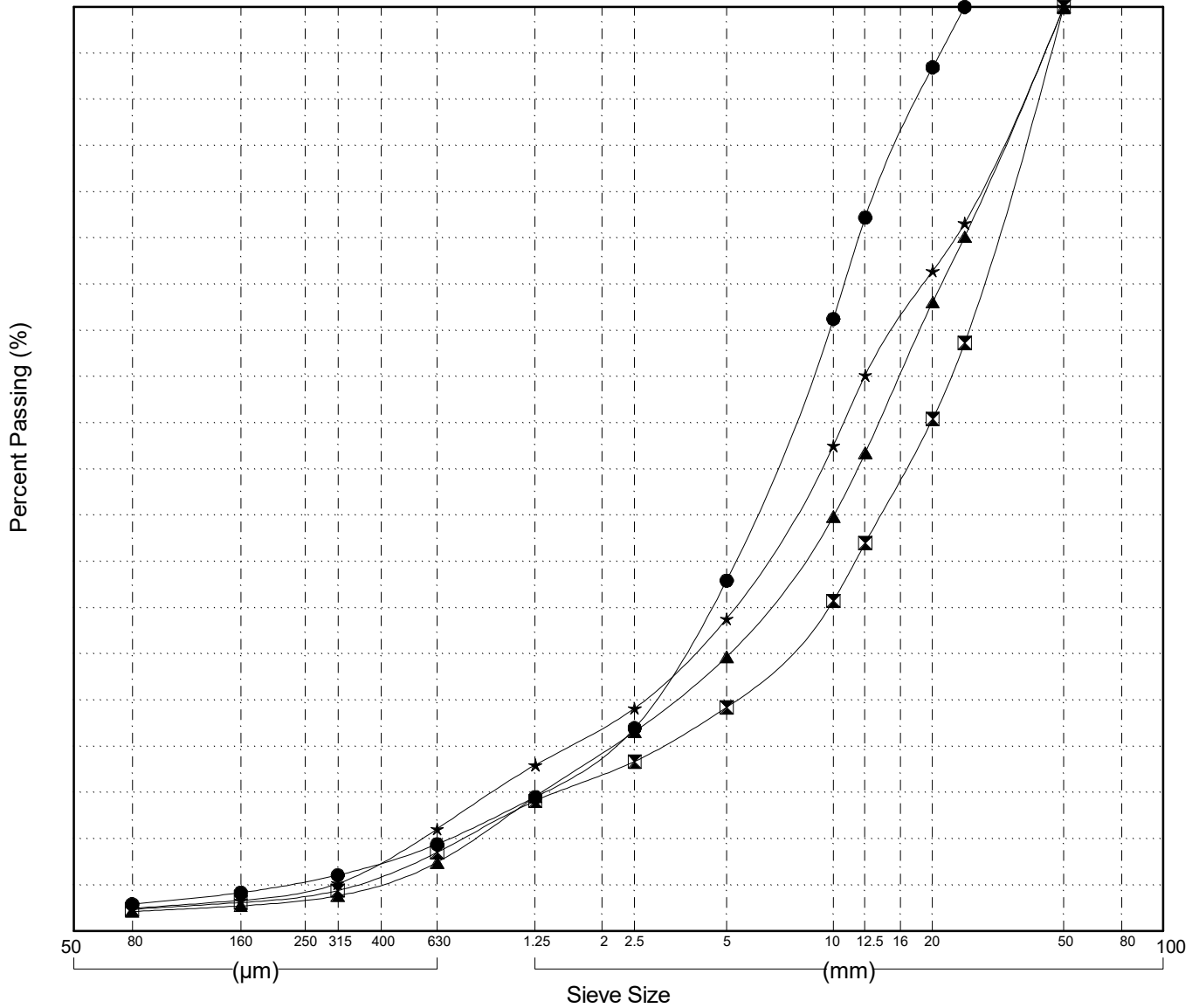
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5517
	km 1418.9 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6721855.5m E500143.8m	ELEVATION: 769.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 140	2015-496	0.0 to 1.5	WELL-GRADED GRAVEL with SAND(GW)	1.3	NP	NP	NP	2.1	12.5
☒ 141	2015-497	1.5 to 3.0	WELL-GRADED GRAVEL with SAND(GW)	1.4	NP	NP	NP	2.8	30.0
▲ 142	2015-498	3.0 to 4.5	WELL-GRADED GRAVEL with SAND(GW)	0.6	NP	NP	NP	1.8	19.7
★ 143	2015-499	4.5 to 6.0	WELL-GRADED GRAVEL with SAND(GW)	0.4	NP	NP	NP	2.0	22.4

Field#	Lab#	% PASSING															% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay	
● 140	2015-496	100.0	100.0	100.0	100.0	93.5	77.2	66.2	37.9	22.0	14.5	9.4	6.1	4.2	2.9	62.1	35.0	2.9		
☒ 141	2015-497	100.0	100.0	100.0	63.6	55.4	42.0	35.7	24.2	18.4	14.1	8.5	4.4	3.1	2.4	75.8	21.8	2.4		
▲ 142	2015-498	100.0	100.0	100.0	75.1	68.1	51.8	44.9	29.7	21.6	14.6	7.4	3.8	2.7	2.1	70.3	27.6	2.1		
★ 143	2015-499	100.0	100.0	100.0	76.6	71.4	60.1	52.5	33.8	24.1	18.0	11.1	5.2	3.3	2.5	66.2	31.3	2.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



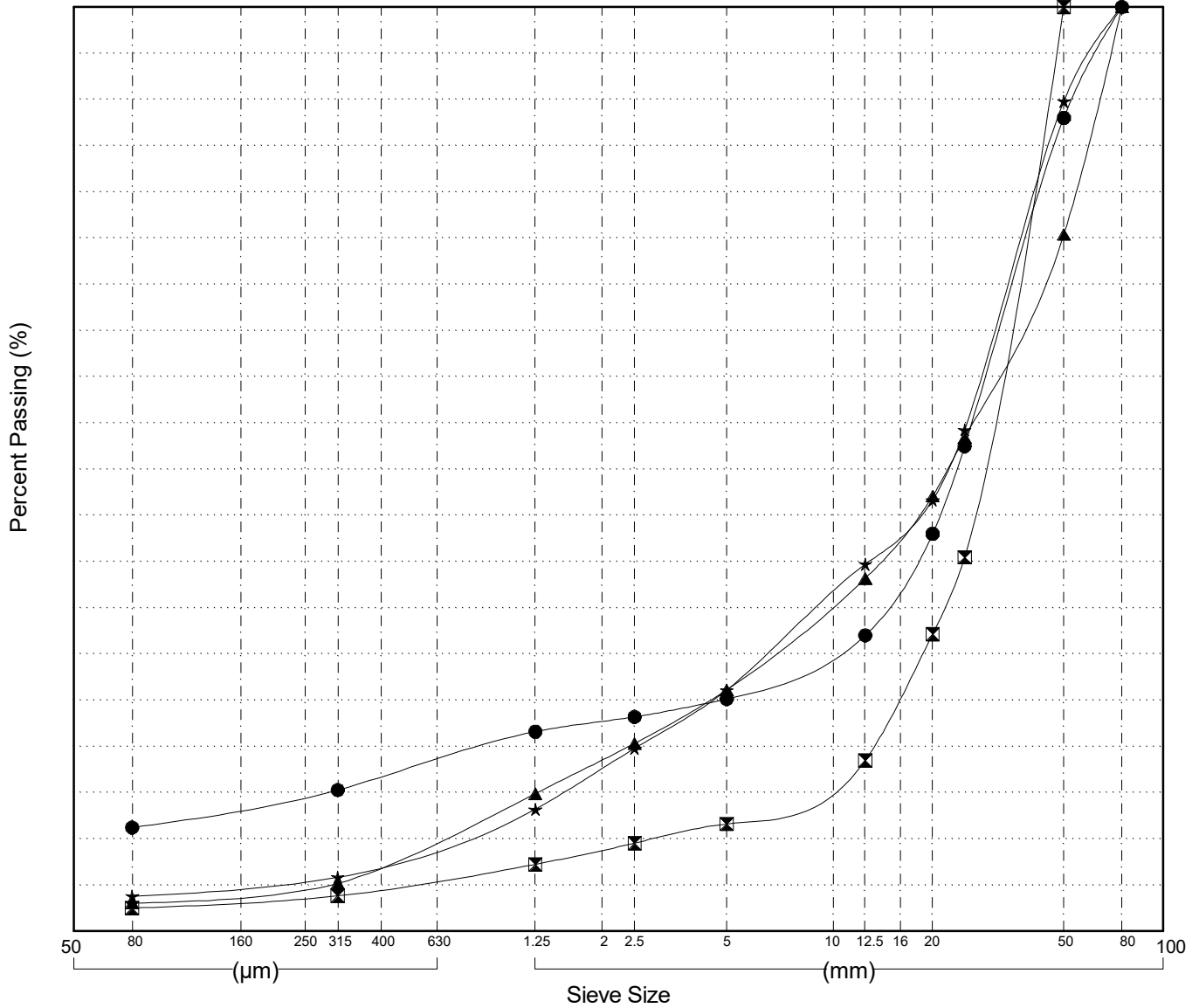
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5518
	km 1417.5 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6721464.6m E500424m	ELEVATION: 754.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 144	2015-500	0.0 to 1.5	POORLY GRADED GRAVEL with SILT (GP-GM)	5.0	NP	NP	NP	63.1	595.1
☒ 145	2015-501	1.5 to 3.0	POORLY GRADED GRAVEL (GP)	0.8	NP	NP	NP	3.8	10.9
▲ 146	2015-502	4.5 to 6.0	WELL-GRADED GRAVEL with SAND (GW)	1.0	NP	NP	NP	2.2	49.2
★ 147	2015-503	7.5 to 9.0	WELL-GRADED GRAVEL with SAND (GW)	1.4	NP	NP	NP	2.0	40.7

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																	Gravel	Sand	Silt	Clay
● 144	2015-500		100.0	100.0	88.0	52.5	43.0	32.0	30.4	25.1	23.2	21.6	18.5	15.3	13.4	11.2	74.9	13.9	11.2	
☒ 145	2015-501		100.0	100.0	100.0	40.5	32.2	18.5	16.9	11.6	9.5	7.2	5.5	3.8	3.2	2.5	88.4	9.1	2.5	
▲ 146	2015-502		100.0	100.0	75.4	53.4	47.1	38.2	35.4	26.1	20.3	14.9	10.0	5.2	4.2	3.1	73.9	23.0	3.1	
★ 147	2015-503		100.0	100.0	89.8	54.2	46.7	39.7	36.6	26.1	19.8	13.2	9.5	5.8	4.9	3.8	73.9	22.3	3.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

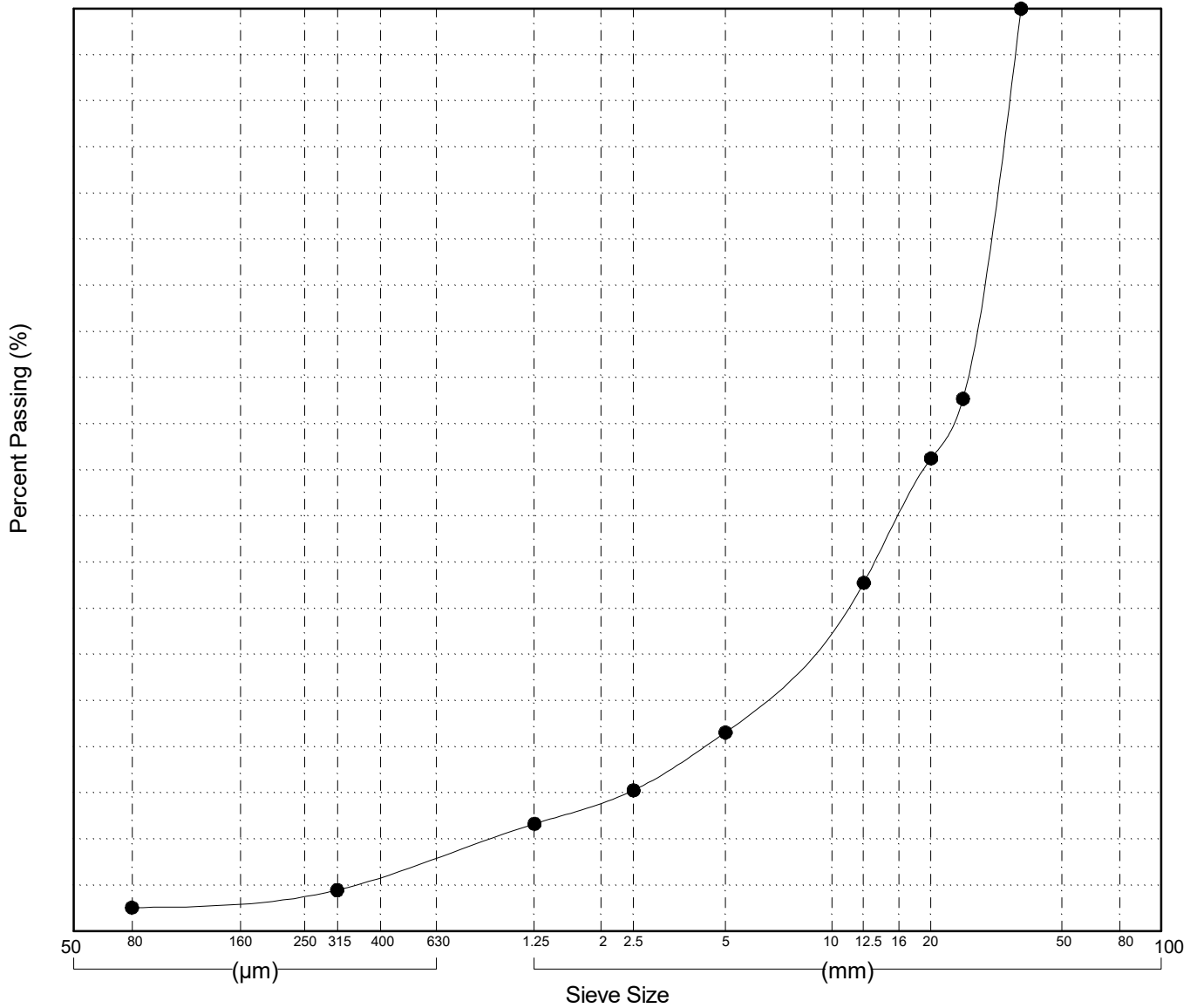


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5519
	km 1417.3 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6721476.9m E500376.5m	ELEVATION: 762m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u										
● 148	2015-504	0.0 to 1.5	WELL-GRADED GRAVEL with SAND(GW)	1.3	NP	NP	NP	2.7	28.1										
Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
● 148	2015-504	100.0	100.0	100.0	57.7	51.3	37.8	34.0	21.6	15.3	11.7	8.1	4.5	3.6	2.6	Gravel	Sand	Silt	Clay
		% PASSING														78.4	19.0	2.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



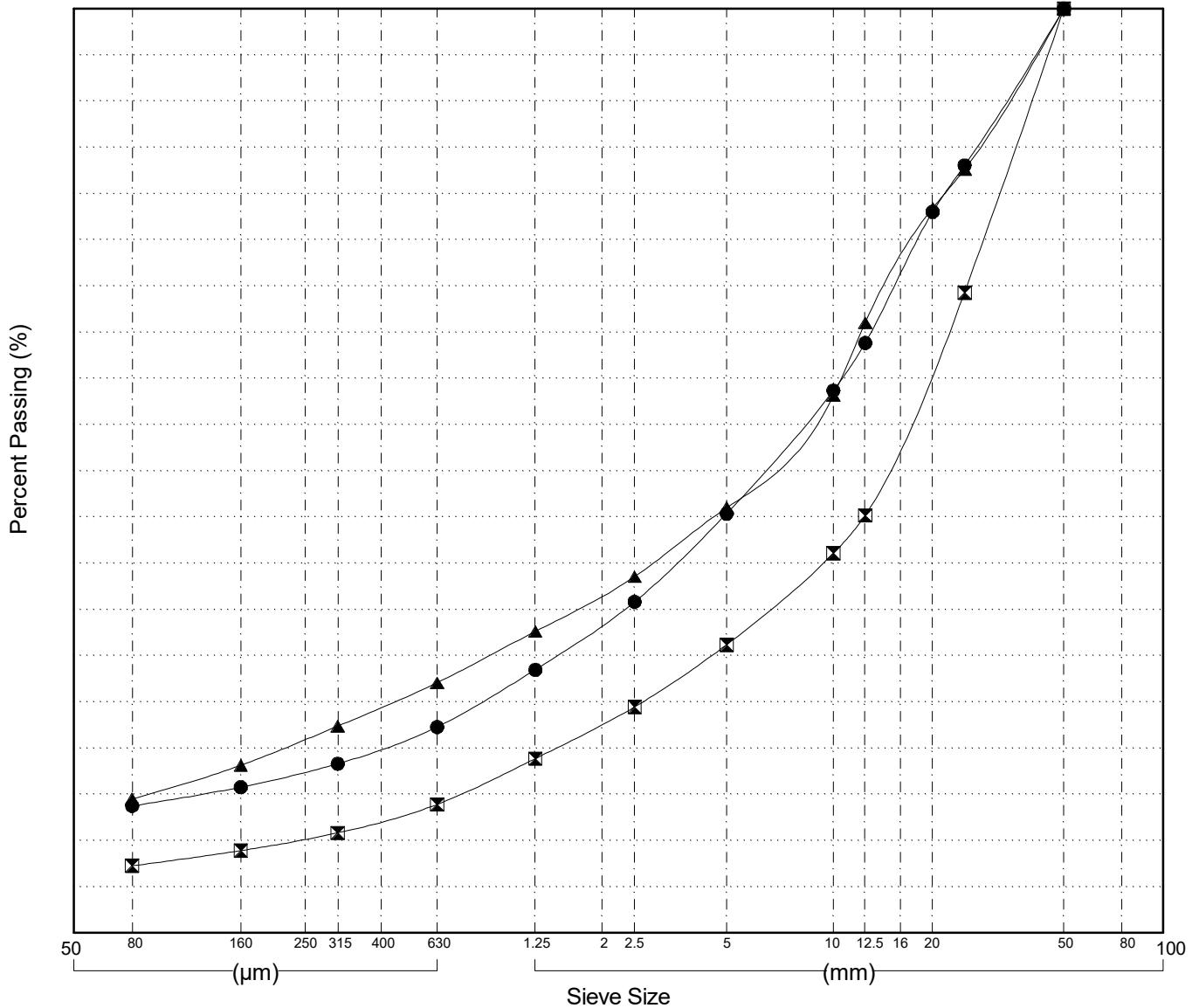
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5520
	km 1416.2 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6721329.5m E500552.1m	ELEVATION: 748.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 149	2015-505	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	2.1	NP	NP	NP		
☒ 150	2015-506	1.5 to 3.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	1.7	NP	NP	NP	4.0	81.3
▲ 151	2015-507	3.0 to 4.5	SILTY GRAVEL with SAND(GM)	3.4	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 149	2015-505	100.0	100.0	100.0	100.0	83.0	78.0	63.8	58.7	45.4	35.8	28.5	22.3	18.3	15.8	13.7	54.6	31.6	13.7	
☒ 150	2015-506	100.0	100.0	100.0	69.3	61.5	45.2	41.1	31.2	24.5	18.9	13.9	10.8	8.9	7.3		68.8	23.9	7.3	
▲ 151	2015-507	100.0	100.0	100.0	82.6	78.4	66.0	58.1	46.0	38.5	32.6	27.1	22.4	18.1	14.5		54.0	31.5	14.5	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



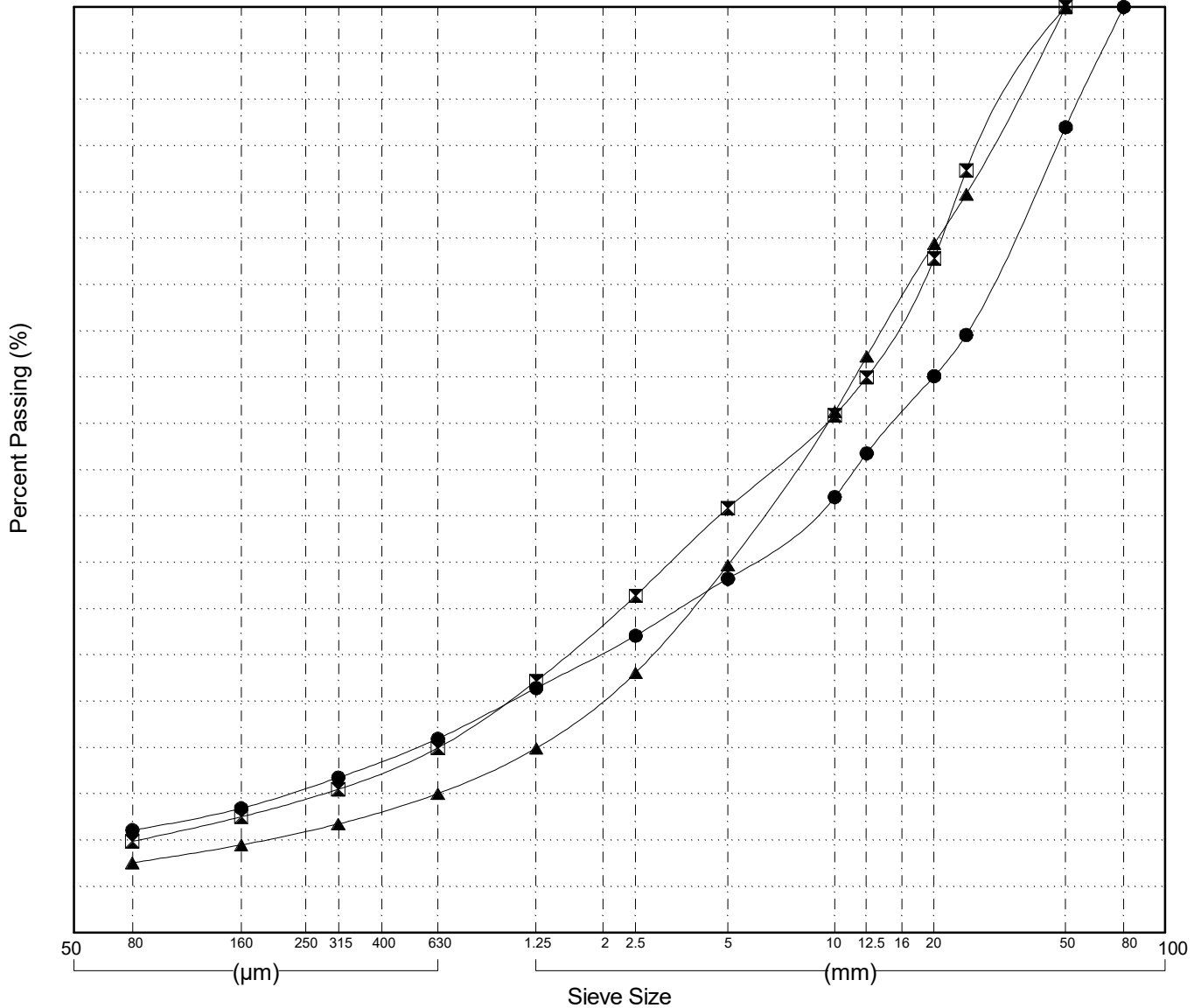
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5521
	km 1415.8 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6721264.5m E500564.1m	ELEVATION: 748.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 152	2015-508	0.0 to 1.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	4.0	NP	NP	NP	3.6	375.4
☒ 153	2015-509	1.5 to 3.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	2.5	NP	NP	NP	2.5	161.0
▲ 154	2015-510	3.0 to 4.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	2.6	NP	NP	NP	3.6	61.7

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 152	2015-508	100.0	100.0	87.0	64.6	60.1	51.8	47.1	38.3	32.1	26.4	21.0	16.8	13.5	11.1	61.7	27.2	11.1	
☒ 153	2015-509	100.0	100.0	100.0	82.4	72.8	60.0	55.9	45.9	36.4	27.2	20.0	15.5	12.5	9.9	54.1	36.0	9.9	
▲ 154	2015-510	100.0	100.0	100.0	79.8	74.4	62.3	56.3	39.7	28.1	19.9	15.0	11.8	9.5	7.6	60.3	32.1	7.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



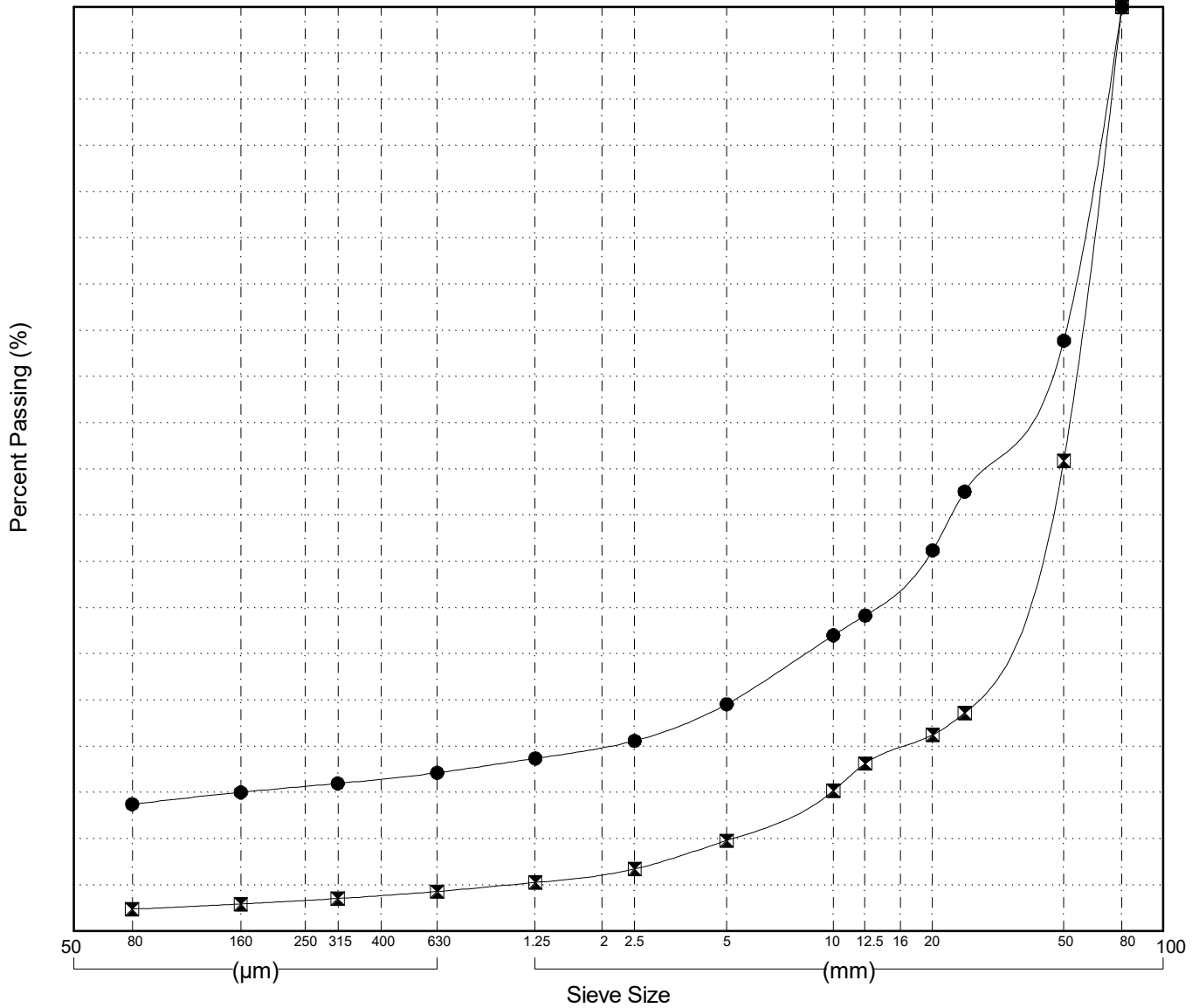
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5522
	km 1414.3 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6720753.5m E501212.9m	ELEVATION: 748.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 155	2015-511	0.0 to 1.5	SILTY GRAVEL(GM)	3.0	NP	NP	NP		
☒ 156	2015-512	1.5 to 3.0	POORLY GRADED GRAVEL(GP)	0.5	NP	NP	NP	3.3	11.0

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 155	2015-511	100.0	100.0	63.9	47.6	41.2	34.2	32.0	24.6	20.6	18.7	17.1	16.0	15.0	13.7	75.4	10.8	13.7	
☒ 156	2015-512	100.0	100.0	50.9	23.6	21.2	18.1	15.2	9.8	6.7	5.3	4.3	3.5	2.9	2.4	90.2	7.4	2.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



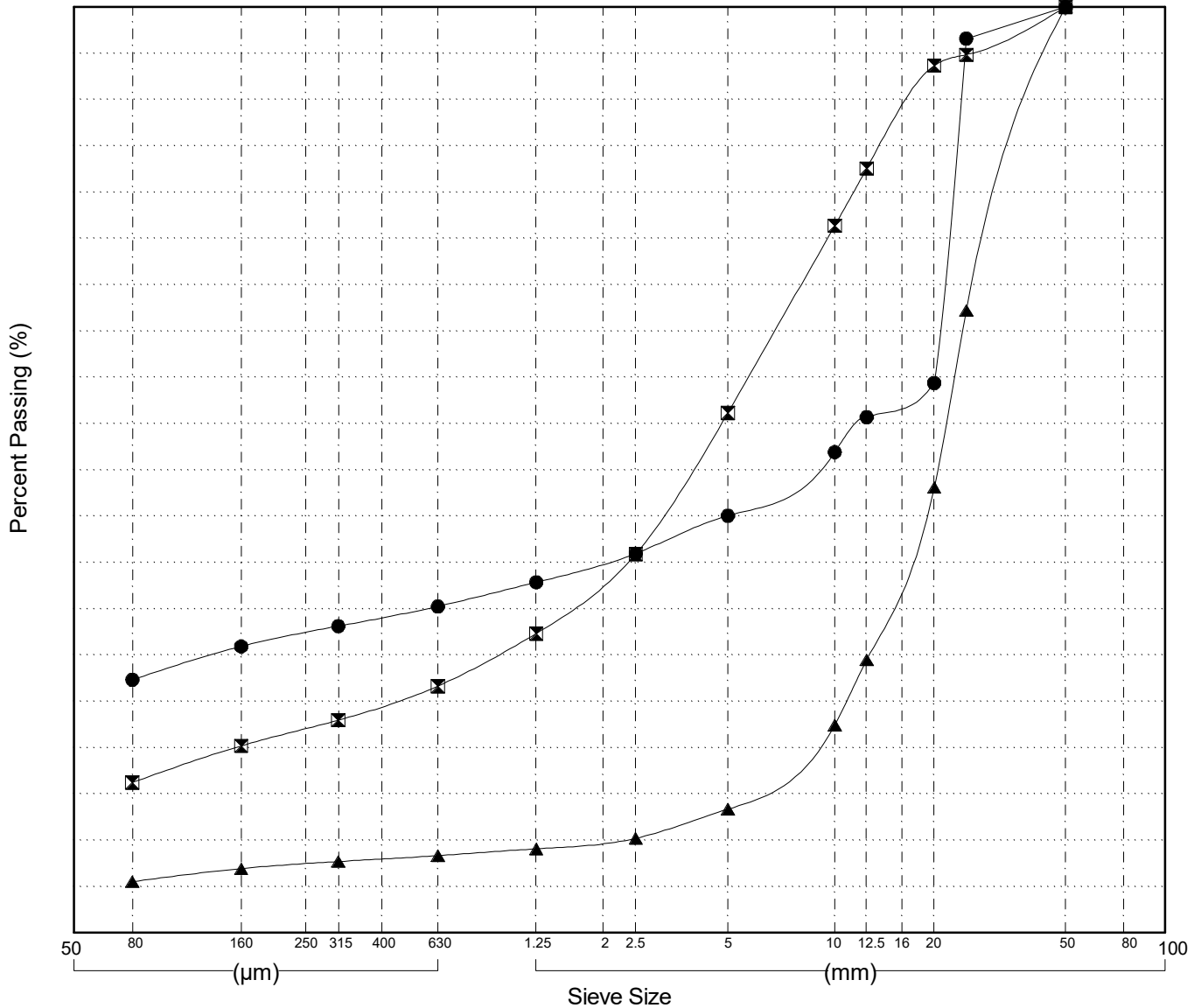
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5523
	km 1414.1 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6720555.9m E501360.8m	ELEVATION: 755.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 157	2015-513	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	5.7	NP	NP	NP		
☒ 158	2015-514	1.5 to 3.0	SILTY GRAVEL with SAND(GM)	2.2	NP	NP	NP		
▲ 159	2015-515	3.0 to 4.5	POORLY GRADED GRAVEL with SILT(GP-GM)	1.0	NP	NP	NP	3.2	10.4

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 157	2015-513	100.0	100.0	100.0	96.6	59.4	55.7	51.9	45.1	41.0	37.9	35.3	33.1	30.9	27.3	54.9	17.7	27.3		
☒ 158	2015-514	100.0	100.0	100.0	94.8	93.7	82.5	76.4	56.1	40.9	32.3	26.7	23.0	20.2	16.2	43.9	39.9	16.2		
▲ 159	2015-515	100.0	100.0	100.0	67.2	48.1	29.5	22.4	13.4	10.2	9.1	8.3	7.7	6.9	5.5	86.6	7.8	5.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

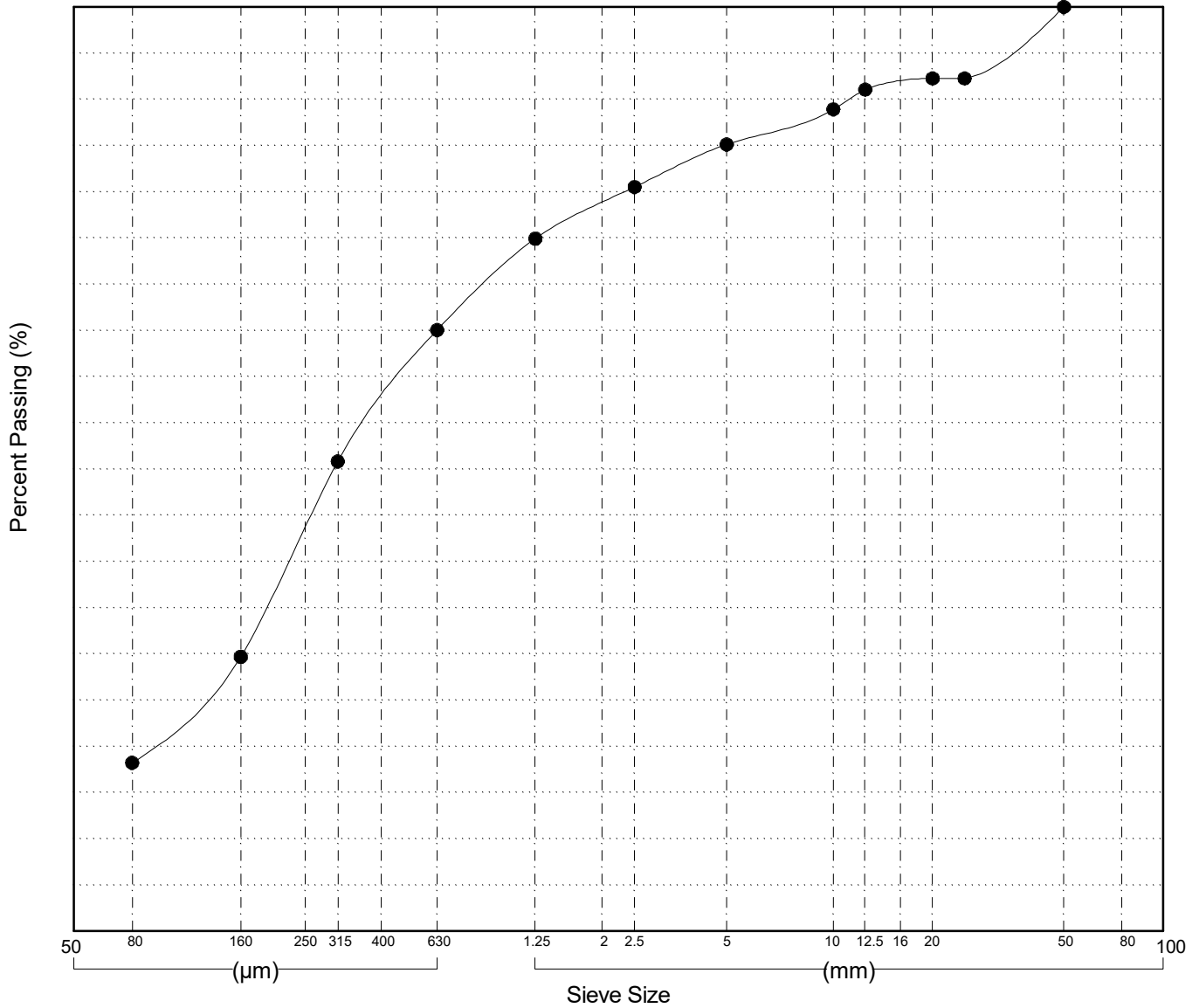
Pit #
Complete: 9/26/2015

GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5524
	km 1413.6 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6720196.1m E501700.9m	ELEVATION: 761.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu
● 160	2015-516	0.0 to 1.5	SILTY SAND(SM)											3.3	NP	NP	NP		
Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown			
● 160	2015-516	100.0	100.0	100.0	92.3	92.3	91.1	88.9	85.1	80.5	74.9	65.0	50.8	29.7	18.2	Gravel	Sand	Silt	Clay
																14.9	66.9	18.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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REVIEWED BY: R.Stilwell

Pit #
Complete: 9/26/2015

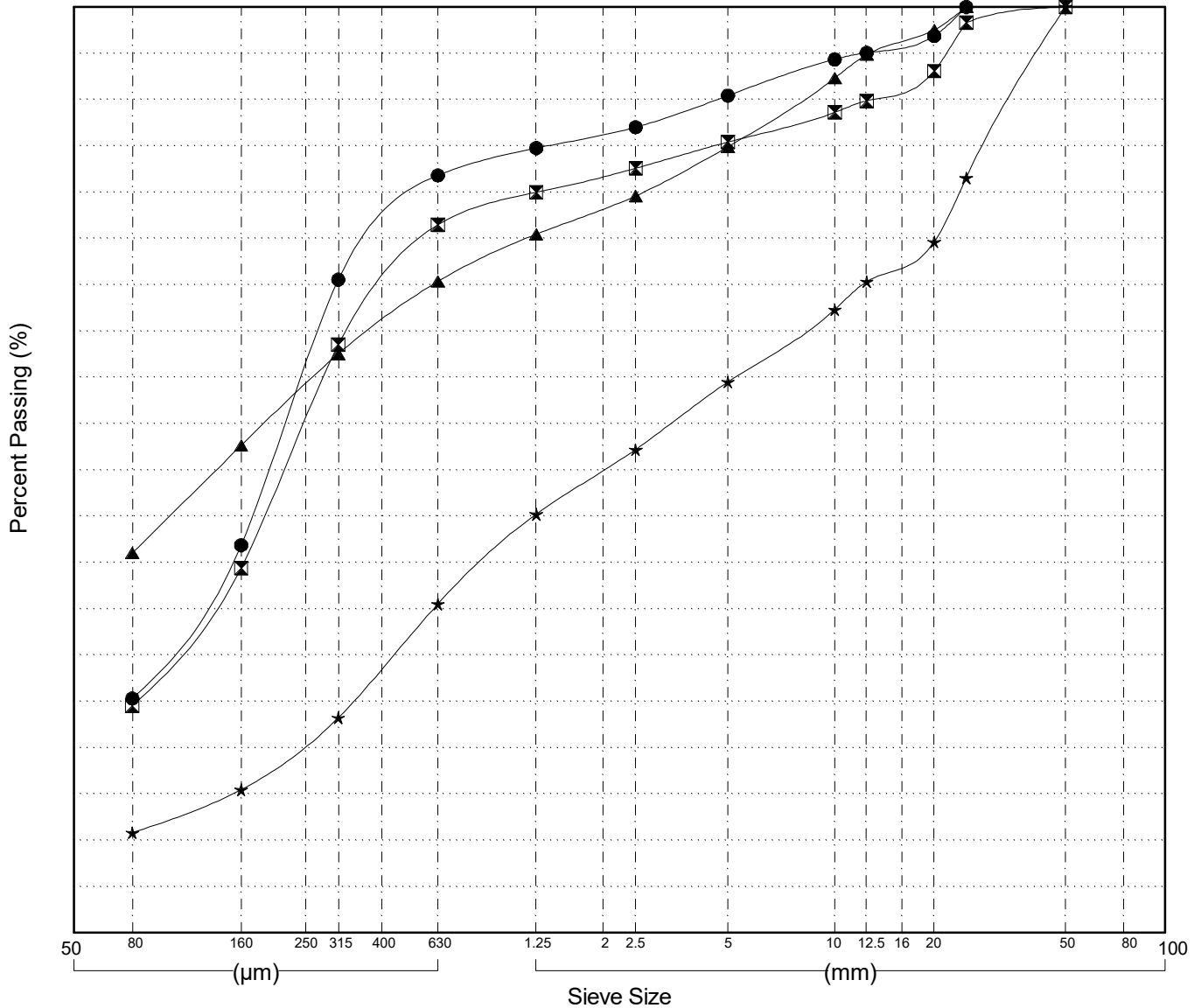
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5525
	km 1413.6 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6720202.8m E501752.7m	ELEVATION: 760.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 161	2015-517	0.0 to 1.5	SILTY SAND(SM)	1.7	NP	NP	NP		
☒ 162	2015-518	1.5 to 3.0	SILTY SAND(SM)	2.3	NP	NP	NP		
▲ 163	2015-519	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	5.3	NP	NP	NP		
★ 164	2015-520	4.5 to 6.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	1.7	NP	NP	NP	0.7	75.9

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 161	2015-517	100.0	100.0	100.0	100.0	96.9	95.1	94.3	90.4	87.0	84.8	81.8	70.6	41.9	25.3	9.6	65.1	25.3	
☒ 162	2015-518	100.0	100.0	100.0	98.3	93.1	89.8	88.6	85.4	82.6	80.0	76.5	63.5	39.4	24.5	14.6	60.9	24.5	
▲ 163	2015-519	100.0	100.0	100.0	100.0	97.5	94.8	92.3	84.9	79.6	75.4	70.3	62.5	52.6	41.0	15.1	43.9	41.0	
★ 164	2015-520	100.0	100.0	100.0	81.5	74.6	70.3	67.3	59.5	52.2	45.2	35.5	23.2	15.5	10.8	40.5	48.7	10.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



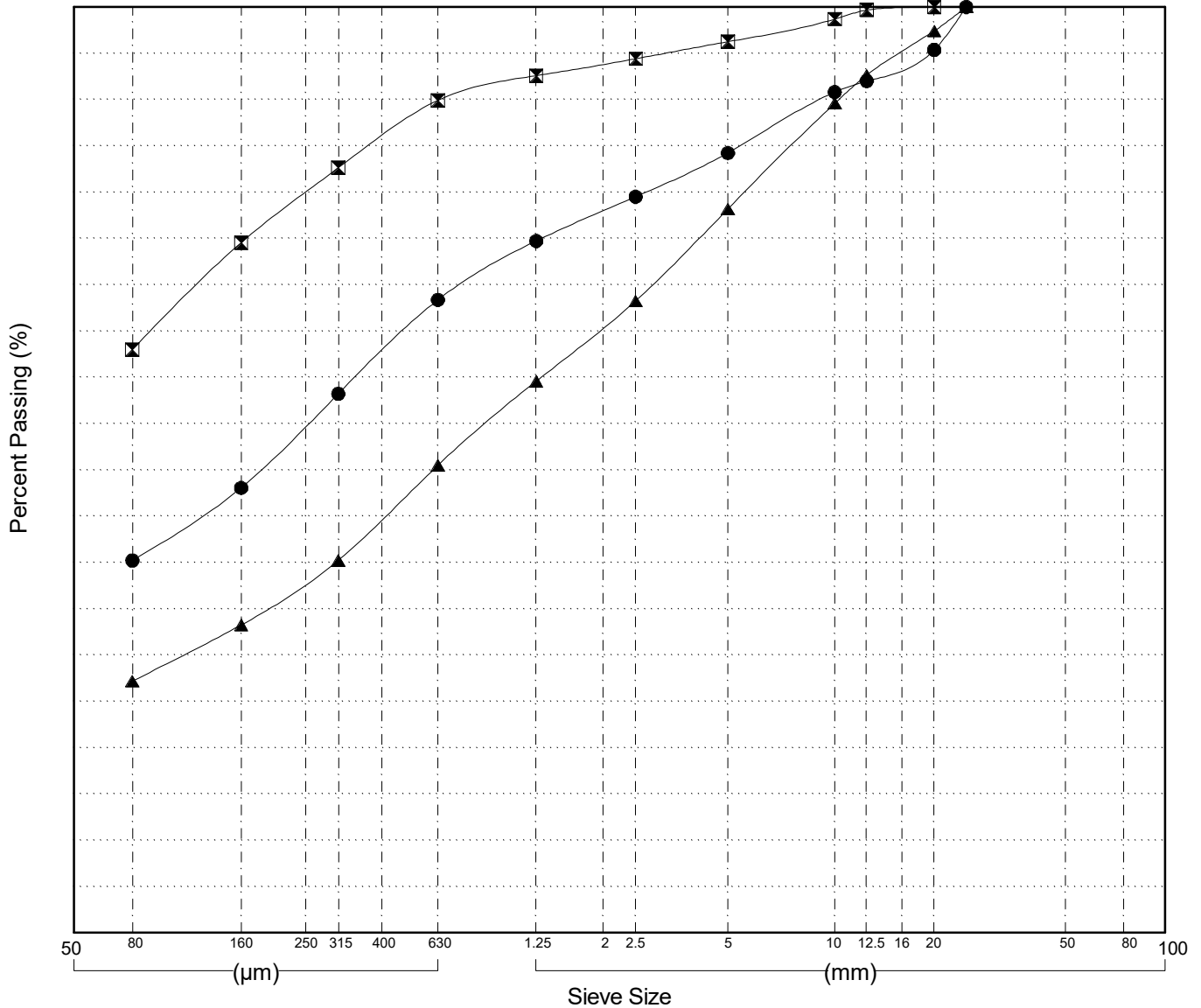
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5526
	km 1413.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6720080.6m E501801.6m	ELEVATION: 761.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 165	2015-521	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	4.0	NP	NP	NP		
☒ 166	2015-522	1.5 to 3.0	SANDY SILT(ML)	10.4	NP	NP	NP		
▲ 167	2015-523	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	3.7	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 165	2015-521	100.0	100.0	100.0	100.0	95.4	92.0	90.8	84.2	79.5	74.7	68.4	58.2	48.1	40.2	15.8	44.0	40.2	
☒ 166	2015-522	100.0	100.0	100.0	100.0	100.0	99.7	98.7	96.2	94.4	92.6	89.9	82.6	74.5	63.0	3.8	33.2	63.0	
▲ 167	2015-523	100.0	100.0	100.0	100.0	97.4	92.6	89.6	78.2	68.3	59.6	50.5	40.2	33.2	27.2	21.8	51.0	27.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



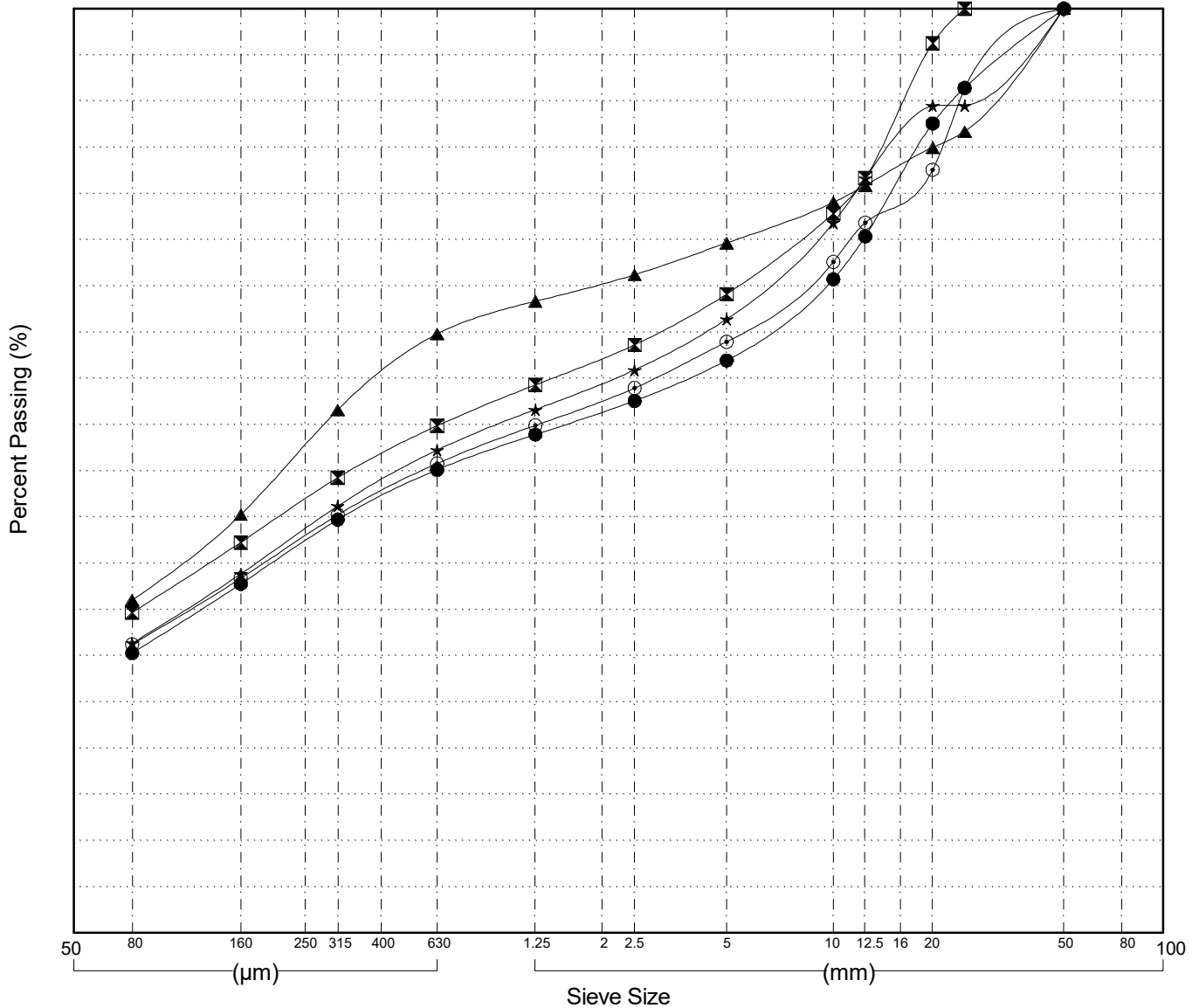
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5527
	km 1412.65 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates:Z8V Nm Em	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 168	2015-524	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	3.7	NP	NP	NP		
☒ 169	2015-525	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	1.1	NP	NP	NP		
▲ 170	2015-526	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	2.2	NP	NP	NP		
★ 171	2015-527	4.5 to 6.0	SILTY SAND with GRAVEL(SM)	2.7	NP	NP	NP		
⊙ 172	2015-528	6.0 to 9.0	SILTY GRAVEL with SAND(GM)	2.8	NP	NP	NP		

Field#	Lab#	%PASSING														%Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 168	2015-524	100.0	100.0	100.0	91.4	87.6	75.4	70.7	61.9	57.6	53.9	50.1	44.7	37.8	30.3	38.1	31.6	30.3	
☒ 169	2015-525	100.0	100.0	100.0	100.0	96.2	81.7	77.8	69.1	63.6	59.3	54.9	49.3	42.3	34.7	30.9	34.5	34.7	
▲ 170	2015-526	100.0	100.0	100.0	86.7	85.0	80.9	79.0	74.6	71.2	68.3	64.8	56.6	45.3	36.0	25.4	38.6	36.0	
★ 171	2015-527	100.0	100.0	100.0	89.5	89.5	81.6	76.8	66.4	60.9	56.6	52.2	46.2	38.8	31.4	33.6	35.0	31.4	
⊙ 172	2015-528	100.0	100.0	100.0	91.4	82.6	76.8	72.6	64.0	59.0	54.9	50.8	45.2	38.4	31.2	36.0	32.7	31.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



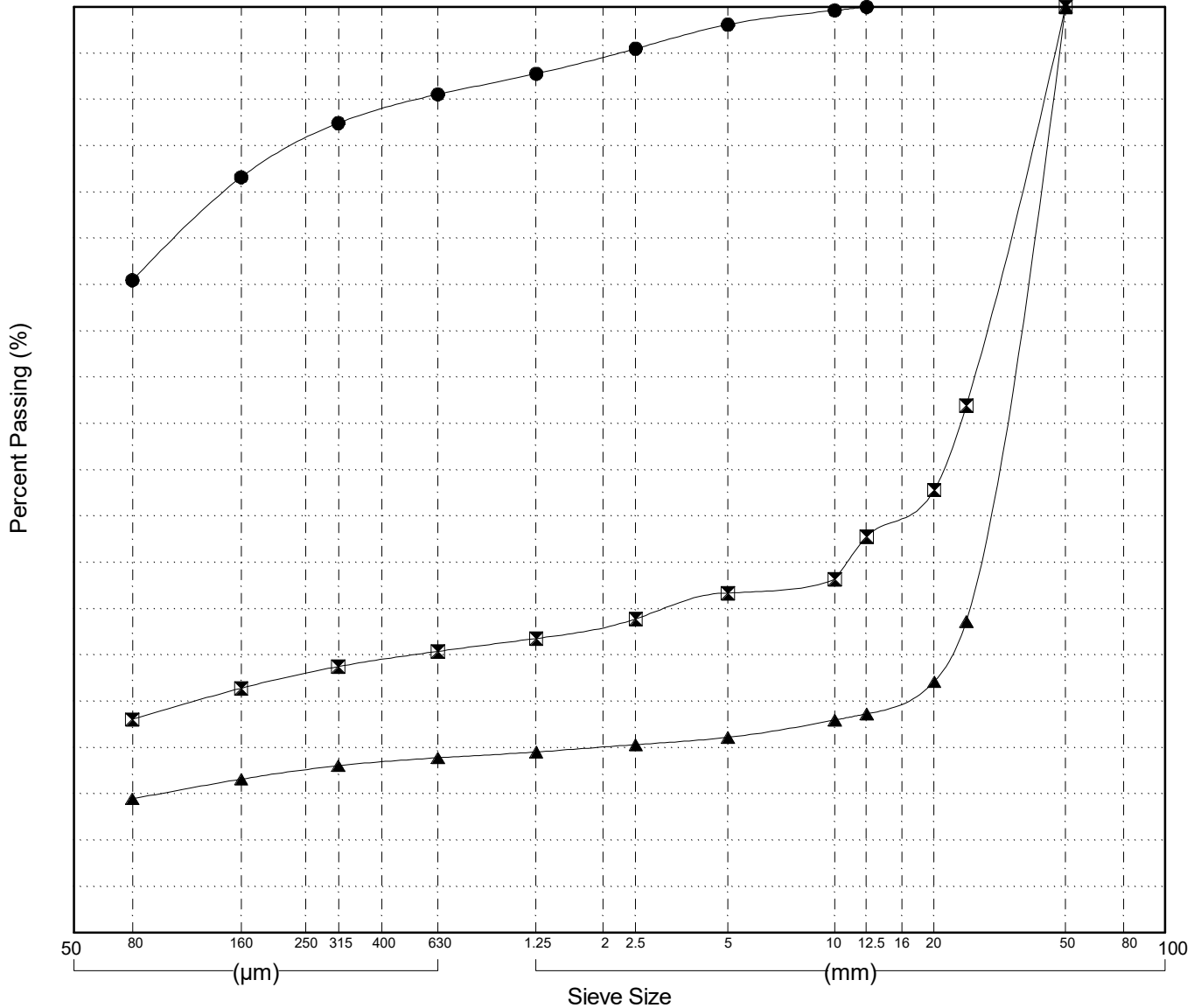
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5528
	km 1412.1 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6719404.9m E502447.9m	ELEVATION: 760.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 173	2015-529	0.0 to 1.5	SILT with SAND(ML)	11.3	NP	NP	NP		
☒ 174	2015-530	1.5 to 3.0	SILTY GRAVEL(GM)	3.4	NP	NP	NP		
▲ 175	2015-531	3.0 to 4.5	SILTY GRAVEL(GM)	1.8	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 173	2015-529	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.1	95.5	92.8	90.6	87.5	81.6	70.5	1.9	27.6	70.5		
☒ 174	2015-530	100.0	100.0	100.0	56.9	47.8	42.8	38.2	36.7	33.9	31.8	30.4	28.8	26.4	23.1	63.3	13.6	23.1		
▲ 175	2015-531	100.0	100.0	100.0	33.6	27.1	23.7	23.0	21.1	20.3	19.5	18.9	18.0	16.6	14.5	78.9	6.6	14.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



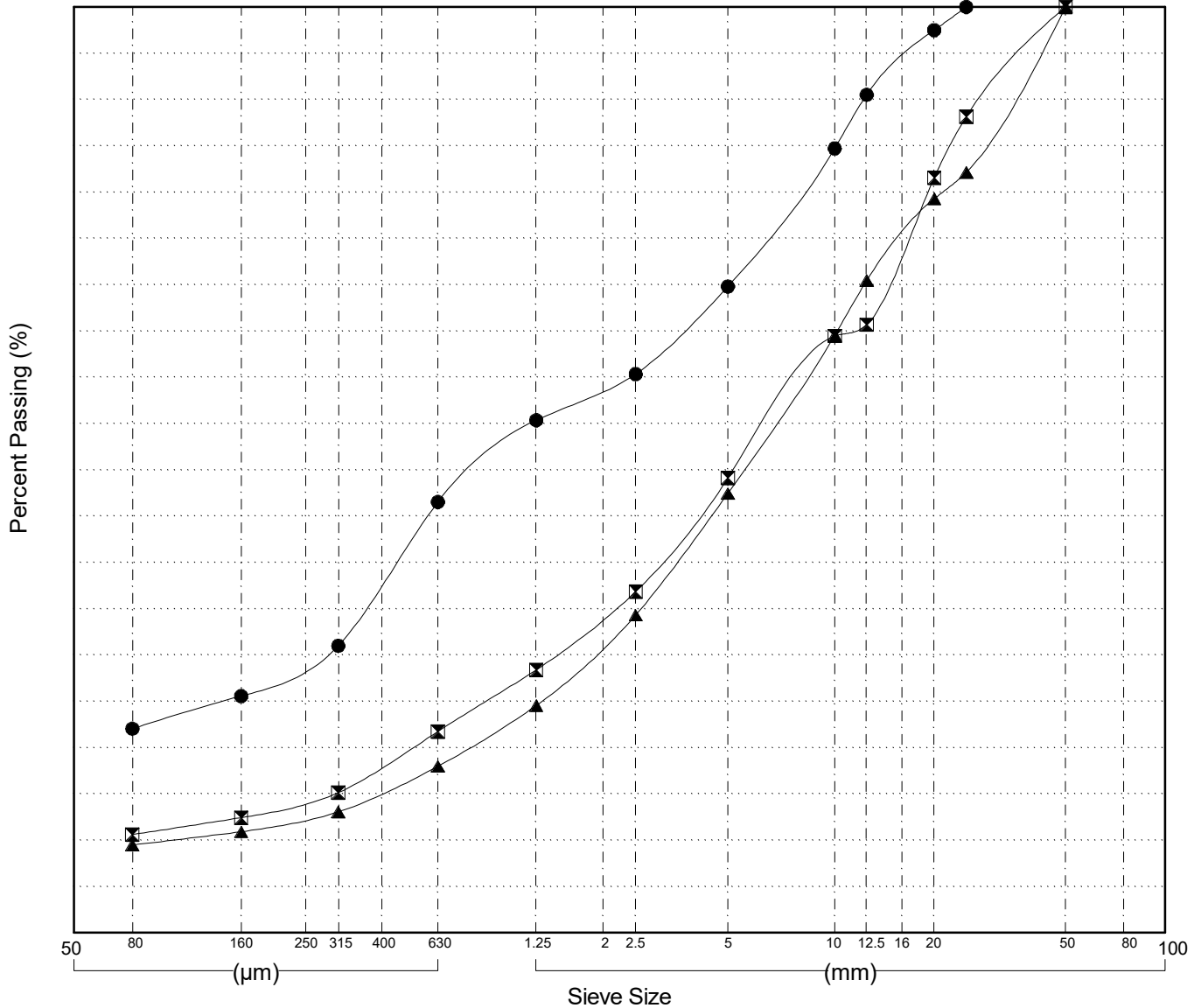
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5529
	km 1410.9 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6719414m E502394.8m	ELEVATION: 762.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 176	2015-532	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	1.1	NP	NP	NP		
☒ 177	2015-533	1.5 to 3.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	1.0	NP	NP	NP	4.4	139.1
▲ 178	2015-534	3.0 to 4.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	0.5	NP	NP	NP	4.2	83.7

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 176	2015-532	100.0	100.0	100.0	100.0	97.5	90.5	84.7	69.8	60.3	55.4	46.5	31.0	25.6	22.1	30.2	47.7	22.1		
☒ 177	2015-533	100.0	100.0	100.0	88.1	81.6	65.7	64.5	49.1	36.9	28.4	21.7	15.2	12.4	10.6	50.9	38.5	10.6		
▲ 178	2015-534	100.0	100.0	100.0	82.1	79.3	70.4	64.5	47.5	34.3	24.5	18.0	13.1	10.9	9.5	52.5	38.0	9.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



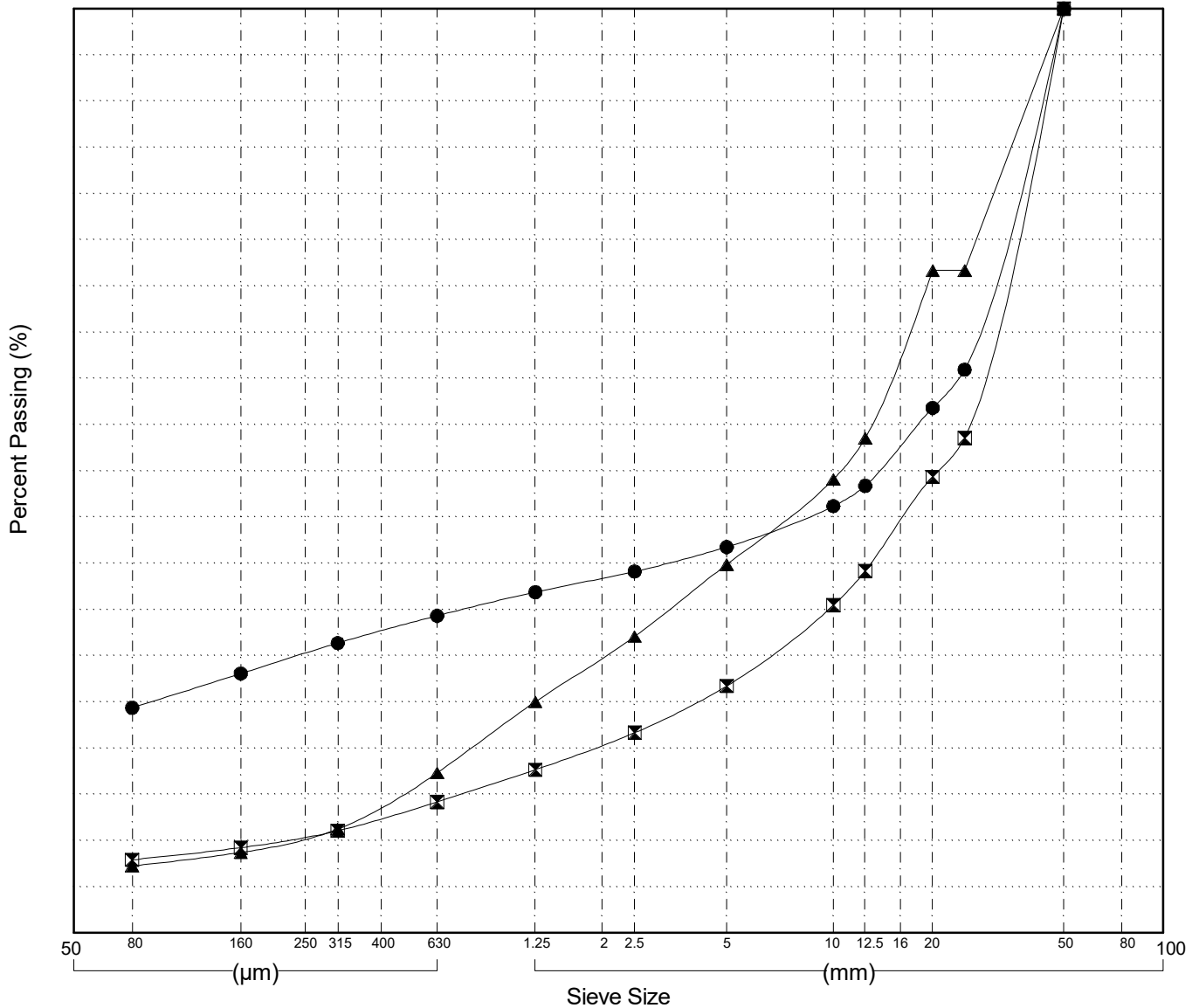
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5530
	km 1410.3 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6719296.9m E502509.3m	ELEVATION: 762.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 179	2015-535	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	6.3	NP	NP	NP		
☒ 180	2015-536	1.5 to 3.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	0.3	NP	NP	NP	6.7	129.3
▲ 181	2015-537	3.0 to 4.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	1.1	NP	NP	NP	1.2	65.4

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 179	2015-535	100.0	100.0	100.0	60.9	56.8	48.4	46.2	41.8	39.1	36.9	34.3	31.4	28.1	24.4	58.2	17.4	24.4	
☒ 180	2015-536	100.0	100.0	100.0	53.6	49.4	39.2	35.5	26.7	21.7	17.7	14.2	11.1	9.2	7.9	73.3	18.8	7.9	
▲ 181	2015-537	100.0	100.0	100.0	71.7	71.7	53.5	49.1	39.9	32.1	25.0	17.3	11.2	8.7	7.2	60.1	32.6	7.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



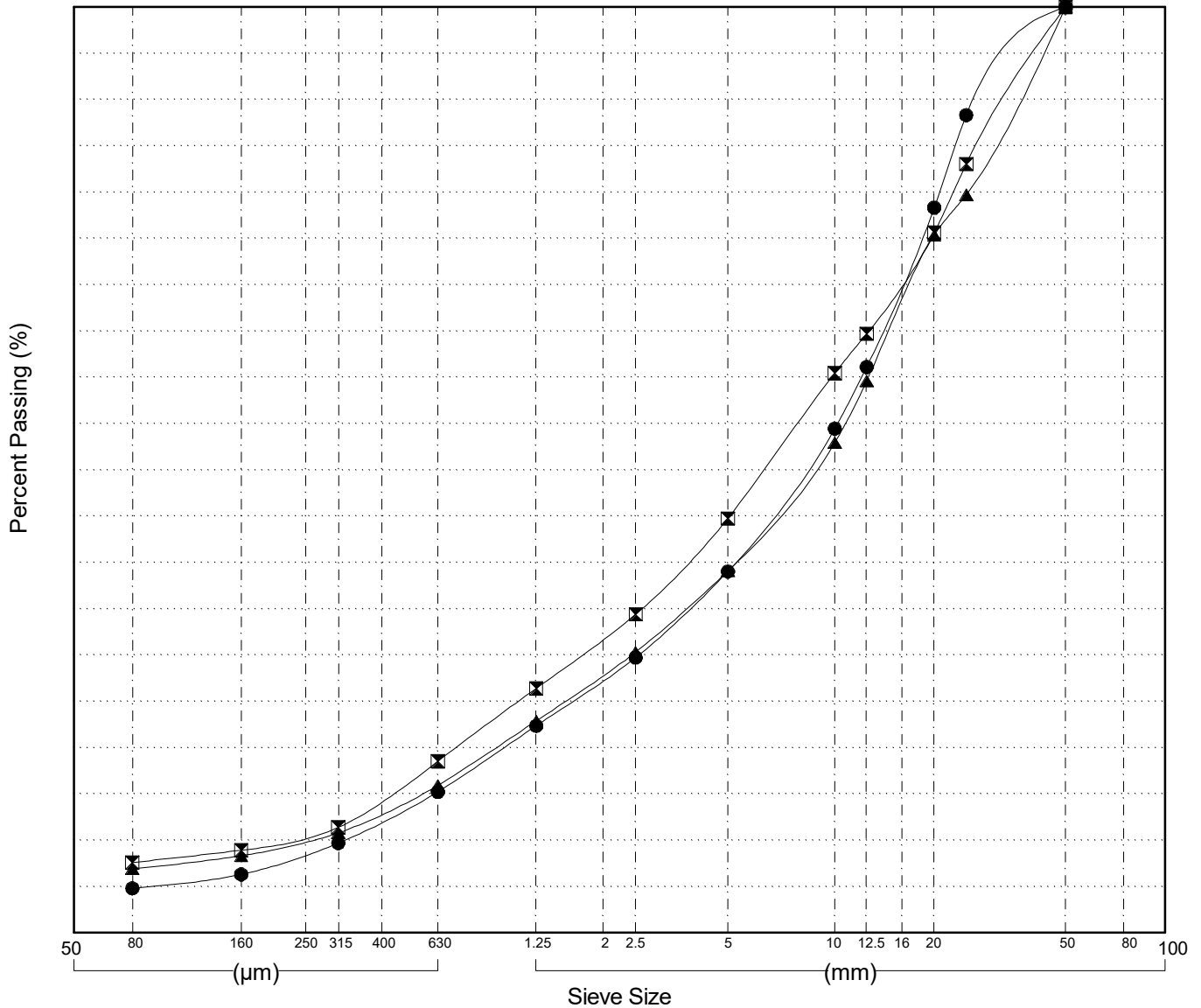
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5531
	km 1410.2 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6719282.9m E502572.5m	ELEVATION: 758.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 182	2015-538	0.0 to 1.5	WELL-GRADED GRAVEL with SAND(GW)	0.2	NP	NP	NP	1.6	36.8
☒ 183	2015-539	1.5 to 3.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	1.4	NP	NP	NP	1.4	45.4
▲ 184	2015-540	3.0 to 4.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	0.3	NP	NP	NP	1.8	50.1

Field#	Lab#	% PASSING	Sieve Size													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 182	2015-538	100.0	100.0	100.0	100.0	88.3	78.3	61.1	54.4	39.0	29.7	22.4	15.2	9.7	6.3	4.8	61.0	34.2	4.8
☒ 183	2015-539	100.0	100.0	100.0	83.0	75.6	64.7	60.5	44.8	34.4	26.4	18.5	11.4	8.9	7.6	55.2	37.2	7.6	
▲ 184	2015-540	100.0	100.0	100.0	79.7	75.4	59.6	52.9	39.1	30.3	22.9	15.9	10.8	8.3	6.9	60.9	32.2	6.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

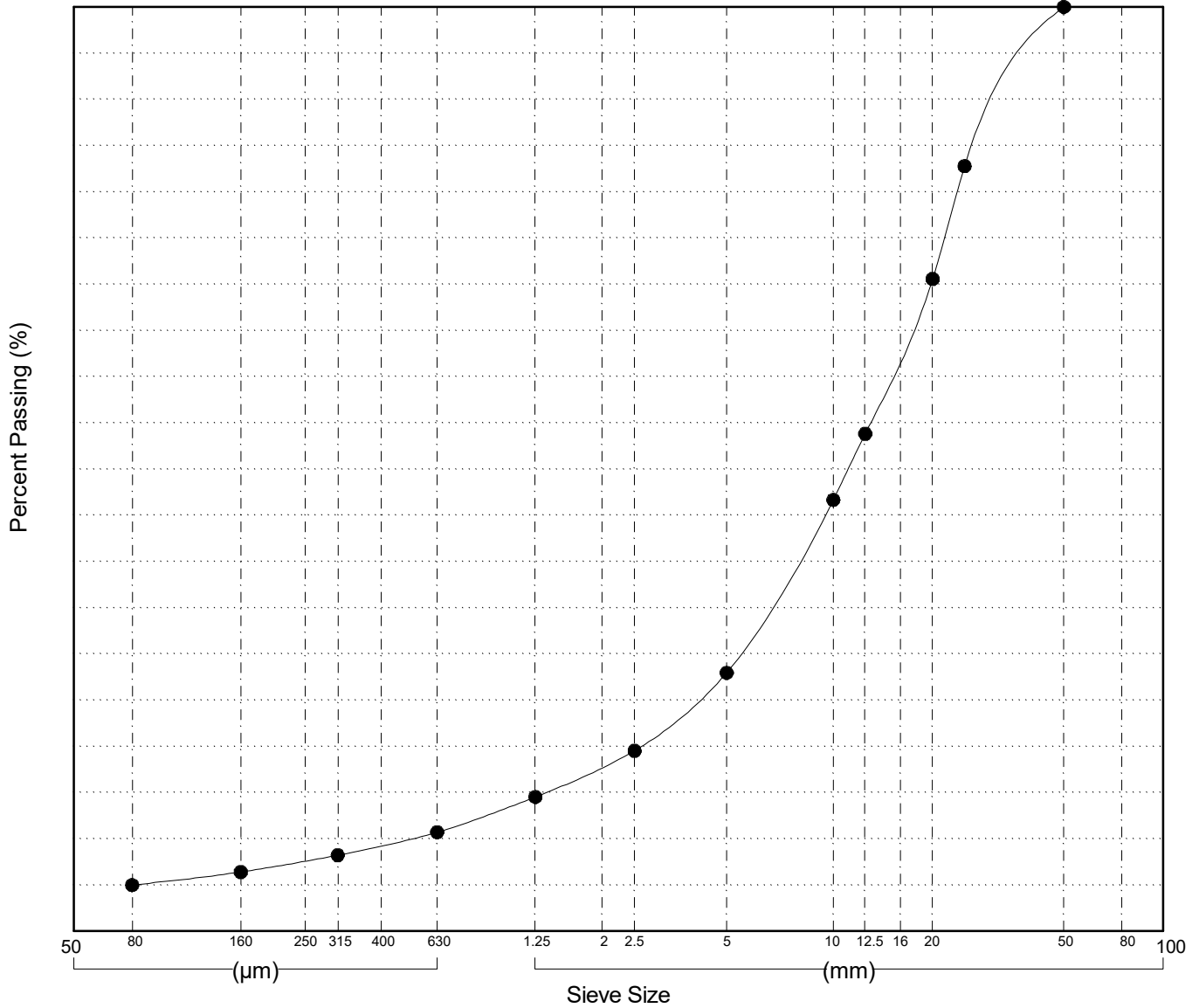


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5532
	km 1409.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718770m E503823.5m	ELEVATION: 752.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u										
● 185	2015-541	0.0 to 1.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	1.1	NP	NP	NP	3.5	28.8										
Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
● 185	2015-541	100.0	100.0	100.0	82.8	70.6	53.8	46.7	28.0	19.5	14.5	10.7	8.2	6.4	5.0	Gravel	Sand	Silt	Clay
																72.0	23.0	5.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

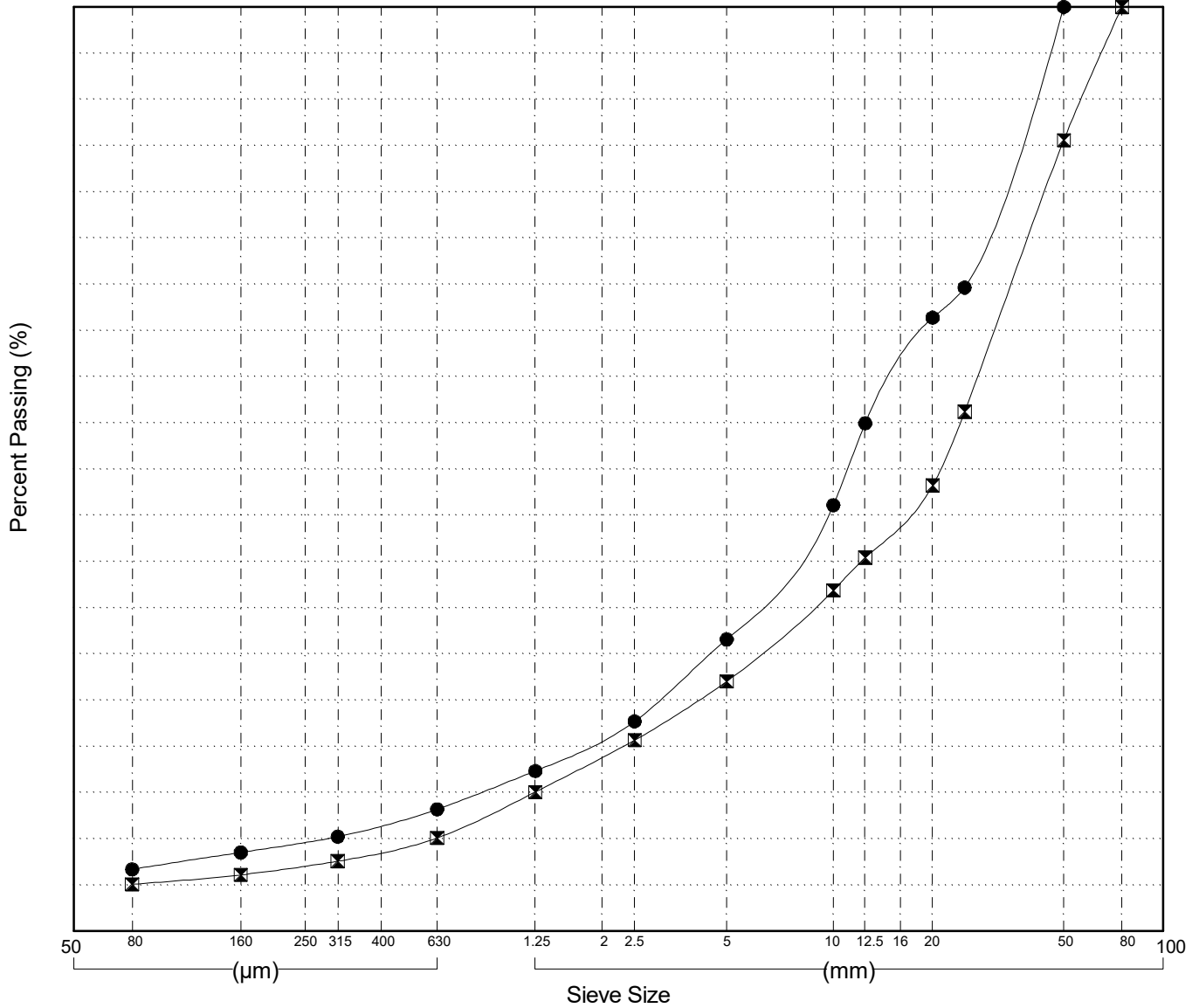
Pit #
Complete: 9/26/2015

GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5533
	km 1409.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718808.2m E503687.1m	ELEVATION: 757m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu										
● 186	2015-542	1.5 to 3.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	1.5	NP	NP	NP	4.1	53.6										
☒ 187	2015-543	3.0 to 4.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	0.5	NP	NP	NP	2.1	44.5										
Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown			
● 186	2015-542	100.0	100.0	100.0	69.6	66.4	55.0	46.1	31.6	22.7	17.3	13.2	10.2	8.5	6.7	Gravel	Sand	Silt	Clay
☒ 187	2015-543	100.0	100.0	85.6	56.2	48.2	40.4	36.9	27.0	20.7	15.1	10.1	7.6	6.1	5.1	73.0	21.9	5.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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REVIEWED BY: R.Stilwell

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Complete: 9/26/2015

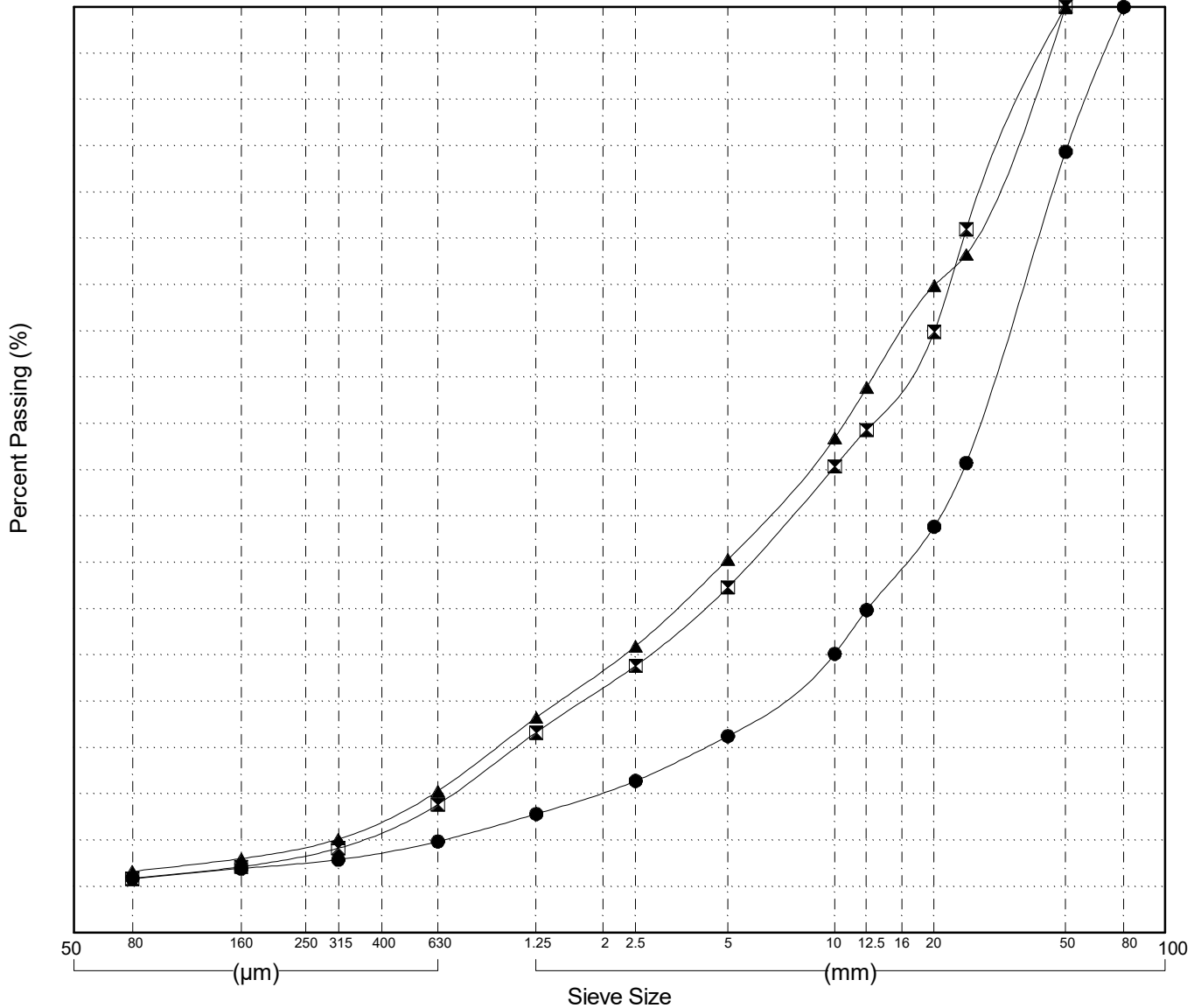
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5534
	km 1409.3 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718742.8m E503952.8m	ELEVATION: 746.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 188	2015-544	0.0 to 1.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	1.0	NP	NP	NP	5.0	46.6
☒ 189	2015-545	1.5 to 3.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	0.5	NP	NP	NP	1.3	45.0
▲ 190	2015-546	3.0 to 4.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	0.9	NP	NP	NP	1.3	43.3

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown		
																Gravel	Sand	Silt / Clay
● 188	2015-544	100.0	100.0	84.4	50.7	43.9	34.9	30.1	21.2	16.4	12.8	9.9	7.9	6.9	5.9	78.8	15.3	5.9
☒ 189	2015-545	100.0	100.0	100.0	76.0	64.9	54.3	50.4	37.3	28.8	21.6	13.9	9.1	7.1	5.8	62.7	31.5	5.8
▲ 190	2015-546	100.0	100.0	100.0	73.3	69.9	58.9	53.4	40.3	31.0	23.2	15.3	10.1	8.0	6.6	59.7	33.7	6.6

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



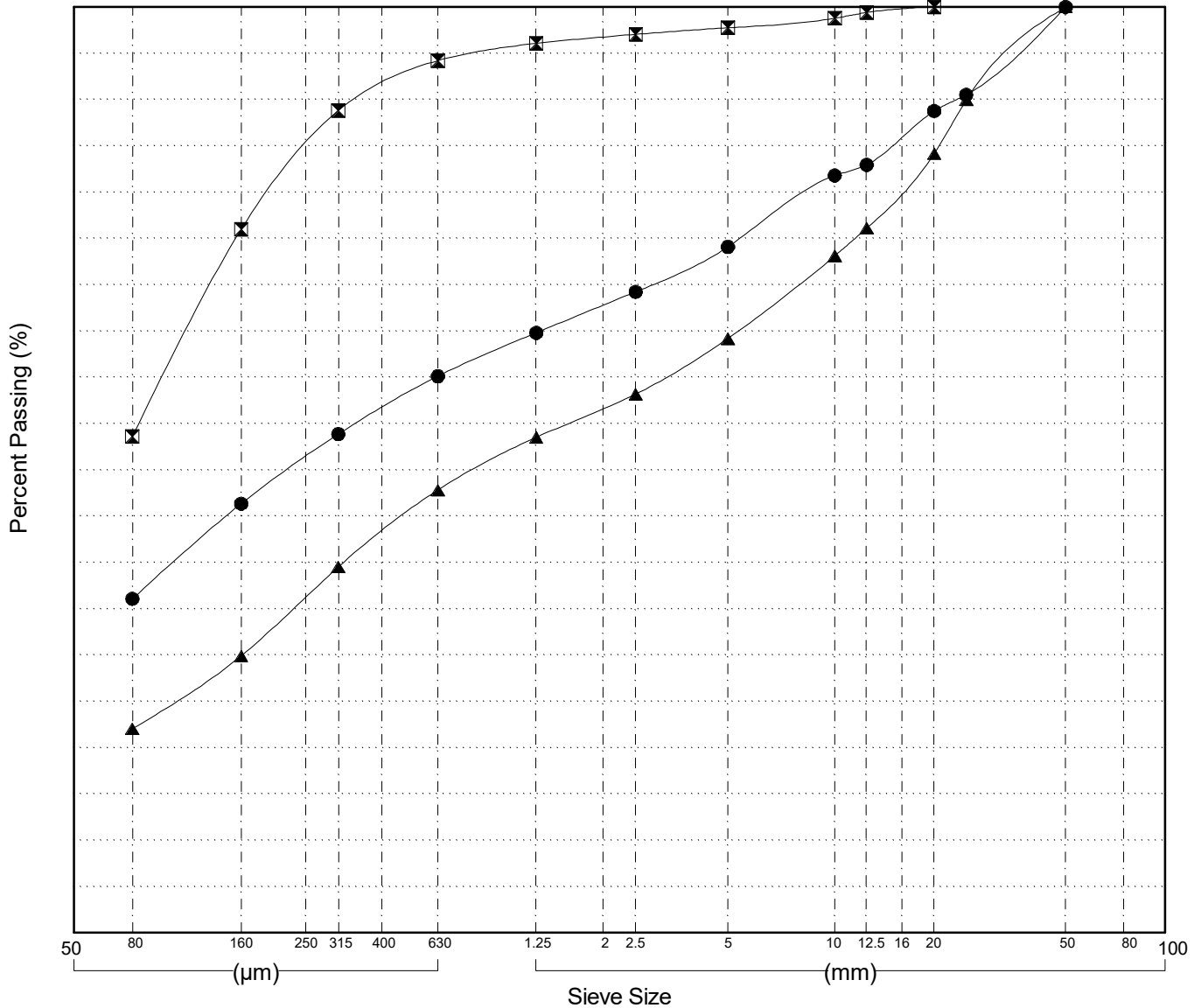
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5535
	km 1407.8 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718703.9m E504246.6m	ELEVATION: 743.8m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 191	2015-547	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	5.8	NP	NP	NP		
☒ 192	2015-548	1.5 to 3.0	SANDY SILT(ML)	11.1	NP	NP	NP		
▲ 193	2015-549	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	4.0	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 191	2015-547	100.0	100.0	100.0	100.0	90.5	88.8	82.9	81.8	74.1	69.2	64.8	60.1	53.9	46.3	36.1	25.9	38.0	36.1	
☒ 192	2015-548	100.0	100.0	100.0	100.0	100.0	99.4	98.8	97.7	97.0	96.1	94.2	88.8	76.0	53.6	2.3	44.1	53.6		
▲ 193	2015-549	100.0	100.0	100.0	89.9	84.2	76.1	73.1	64.2	58.2	53.5	47.8	39.5	29.9	22.0	35.8	42.1	22.0		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



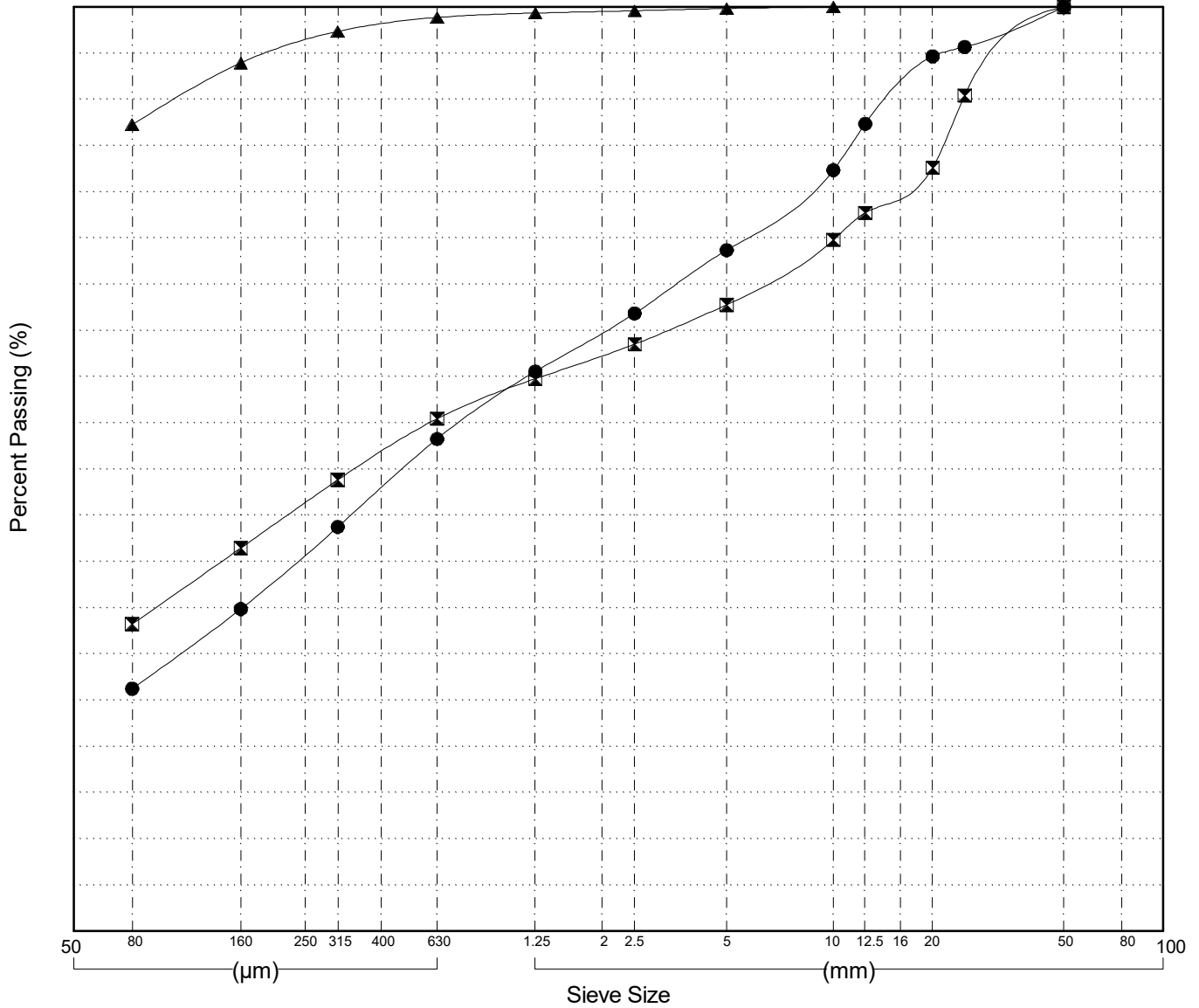
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5536
	km 1407.7 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718678.3m E504367.2m	ELEVATION: 740.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 194	2015-550	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	4.8	NP	NP	NP		
☒ 195	2015-551	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	5.4	NP	NP	NP		
▲ 196	2015-552	3.0 to 4.5	SILT(ML)	13.8	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 194	2015-550	100.0	100.0	100.0	95.7	94.6	87.3	82.3	73.7	66.8	60.6	53.3	43.7	34.9	26.2		26.3	47.4	26.2	
☒ 195	2015-551	100.0	100.0	100.0	90.4	82.6	77.7	74.8	67.8	63.5	59.8	55.4	48.8	41.4	33.2		32.2	34.6	33.2	
▲ 196	2015-552	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.6	99.3	98.9	97.3	93.9	87.3		0.2	12.6	87.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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REVIEWED BY: R.Stilwell

Pit #
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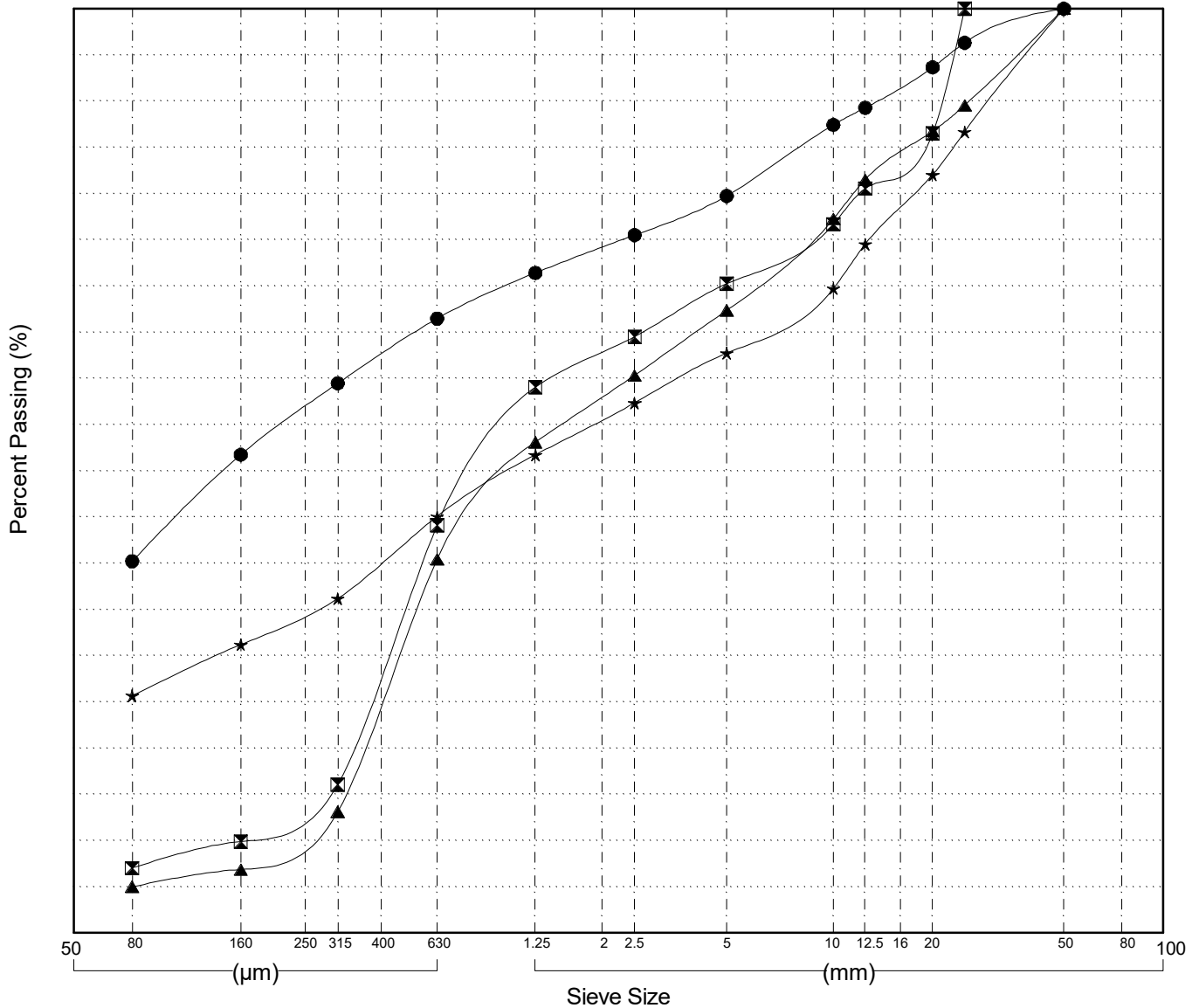
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5537
	km 1407.6 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718527.4m E504657.3m	ELEVATION: 745.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 197	2015-553	0.0 to 0.7	SILTY SAND with GRAVEL(SM)	7.7	NP	NP	NP		
☒ 198	2015-554	0.7 to 1.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	1.4	NP	NP	NP	0.9	8.7
▲ 199	2015-555	1.5 to 3.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	0.3	NP	NP	NP	0.4	10.8
★ 200	2015-556	3.0 to 4.5	SILTY GRAVEL with SAND(GM)	2.9	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)														% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 197	2015-553	100.0	100.0	100.0	100.0	96.3	93.7	89.3	87.4	79.7	75.5	71.4	66.5	59.5	51.7	40.2	20.3	39.5	40.2	
☒ 198	2015-554	100.0	100.0	100.0	100.0	86.5	80.5	76.7	70.2	64.5	59.0	44.1	16.1	9.9	7.0	29.8	63.2	7.0		
▲ 199	2015-555	100.0	100.0	100.0	89.5	86.7	81.5	77.3	67.4	60.3	53.1	40.4	13.1	6.9	5.0	32.6	62.4	5.0		
★ 200	2015-556	100.0	100.0	100.0	86.7	82.0	74.5	69.7	62.7	57.3	51.7	45.1	36.2	31.2	25.7	37.3	37.1	25.7		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



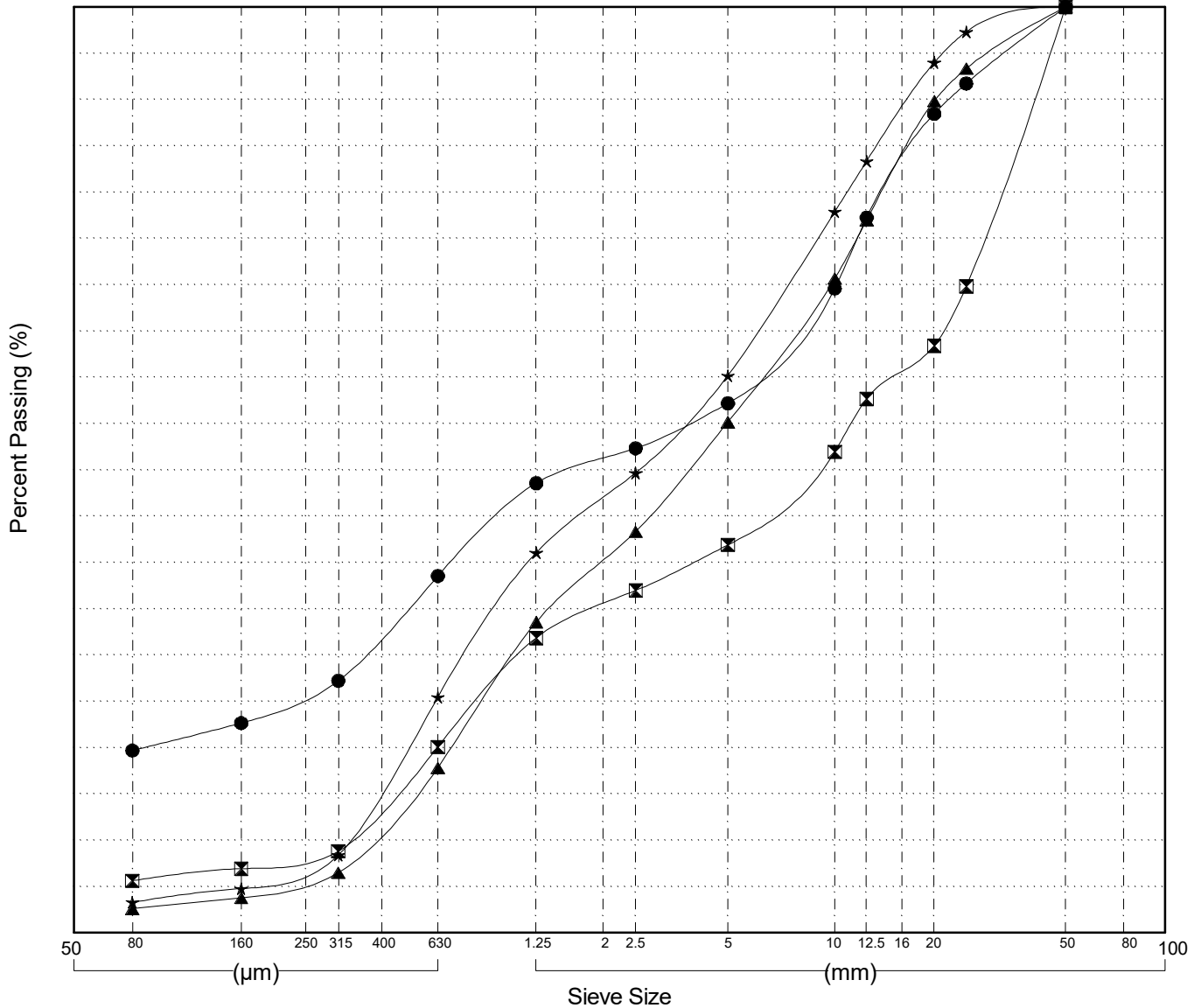
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5538
	km 1406.9 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V Nm Em	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 201	2015-557	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	1.9	NP	NP	NP		
☒ 202	2015-558	1.5 to 3.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	1.3	NP	NP	NP	0.2	44.6
▲ 203	2015-559	3.0 to 4.5	POORLY GRADED SAND with GRAVEL(SP)	1.1	NP	NP	NP	0.5	15.3
★ 204	2015-560	4.5 to 6.0	POORLY GRADED SAND with GRAVEL(SP)	1.4	NP	NP	NP	0.4	14.0

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 201	2015-557	100.0	100.0	100.0	91.7	88.5	77.2	69.6	57.2	52.3	48.6	38.5	27.2	22.7	19.7	42.8	37.5	19.7	
☒ 202	2015-558	100.0	100.0	100.0	69.8	63.4	57.7	52.0	41.9	37.0	31.8	20.1	8.8	6.9	5.6	58.1	36.3	5.6	
▲ 203	2015-559	100.0	100.0	100.0	93.3	89.8	77.0	70.7	55.2	43.3	33.6	17.8	6.5	3.8	2.6	44.8	52.6	2.6	
★ 204	2015-560	100.0	100.0	100.0	97.3	94.0	83.3	77.9	60.2	49.7	41.1	25.4	8.4	4.8	3.3	39.8	56.9	3.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



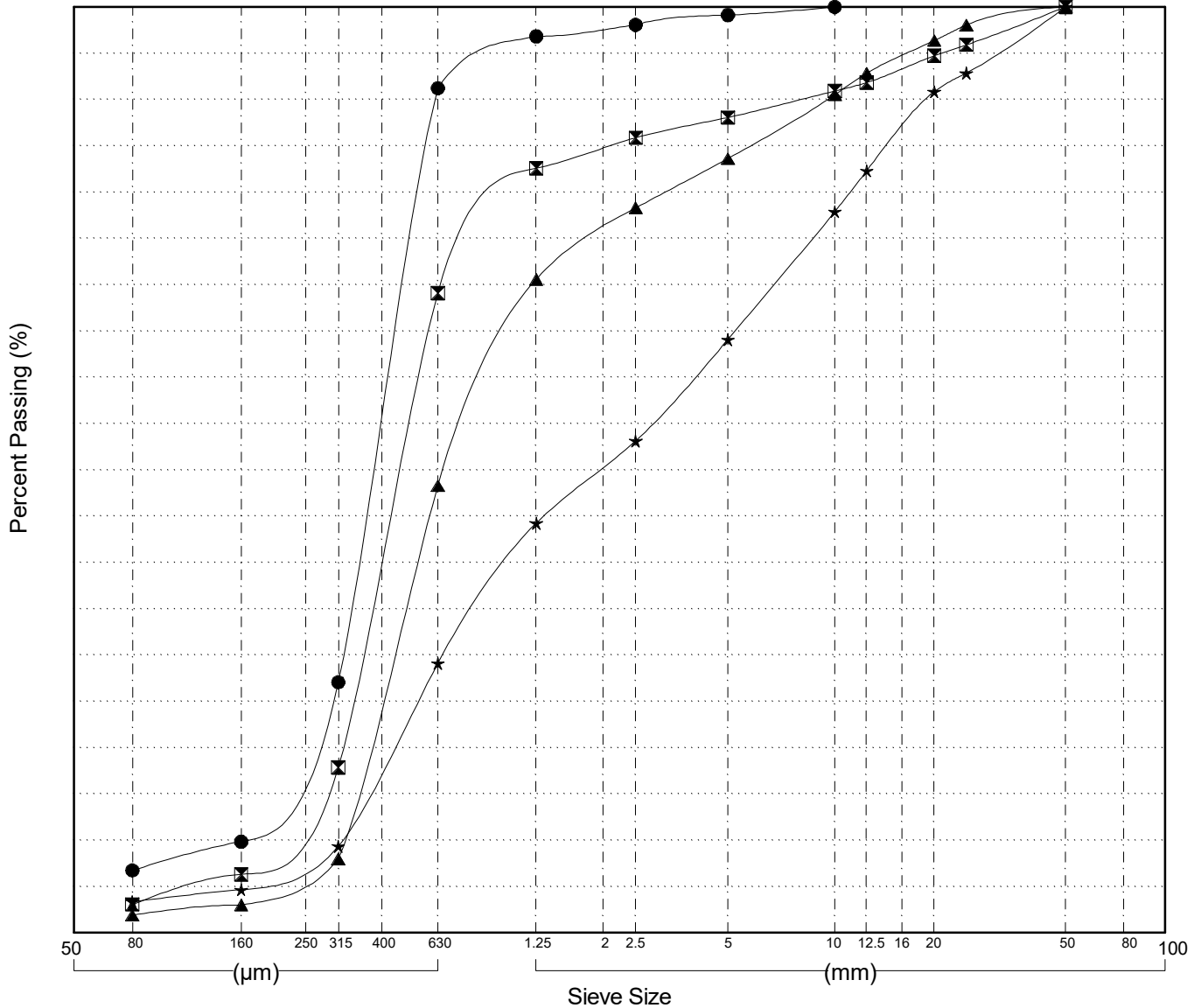
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5539
	km 1406.8 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718499.4m E504771.5m	ELEVATION: 745.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 205	2015-561	0.0 to 1.5	POORLY GRADED SAND with SILT(SP-SM)	3.9	NP	NP	NP	1.5	2.8
☒ 206	2015-562	1.5 to 3.0	POORLY GRADED SAND(SP)	1.0	NP	NP	NP	1.2	2.8
▲ 207	2015-563	3.0 to 4.5	POORLY GRADED SAND with GRAVEL(SP)	0.6	NP	NP	NP	0.7	2.8
★ 208	2015-564	4.5 to 6.0	POORLY GRADED SAND with GRAVEL(SP)	0.4	NP	NP	NP	0.4	11.6

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 205	2015-561	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	98.1	96.8	91.2	27.1	9.9	6.8	0.9	92.4	6.8	
☒ 206	2015-562	100.0	100.0	100.0	95.9	94.7	91.8	90.9	88.0	85.9	82.6	69.1	17.9	6.3	3.1	12.0	85.0	3.1	
▲ 207	2015-563	100.0	100.0	100.0	98.0	96.4	92.8	90.5	83.6	78.3	70.6	48.3	8.0	3.0	1.9	16.4	81.7	1.9	
★ 208	2015-564	100.0	100.0	100.0	92.9	90.9	82.3	77.9	64.1	53.1	44.2	29.1	9.4	4.7	3.4	35.9	60.7	3.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



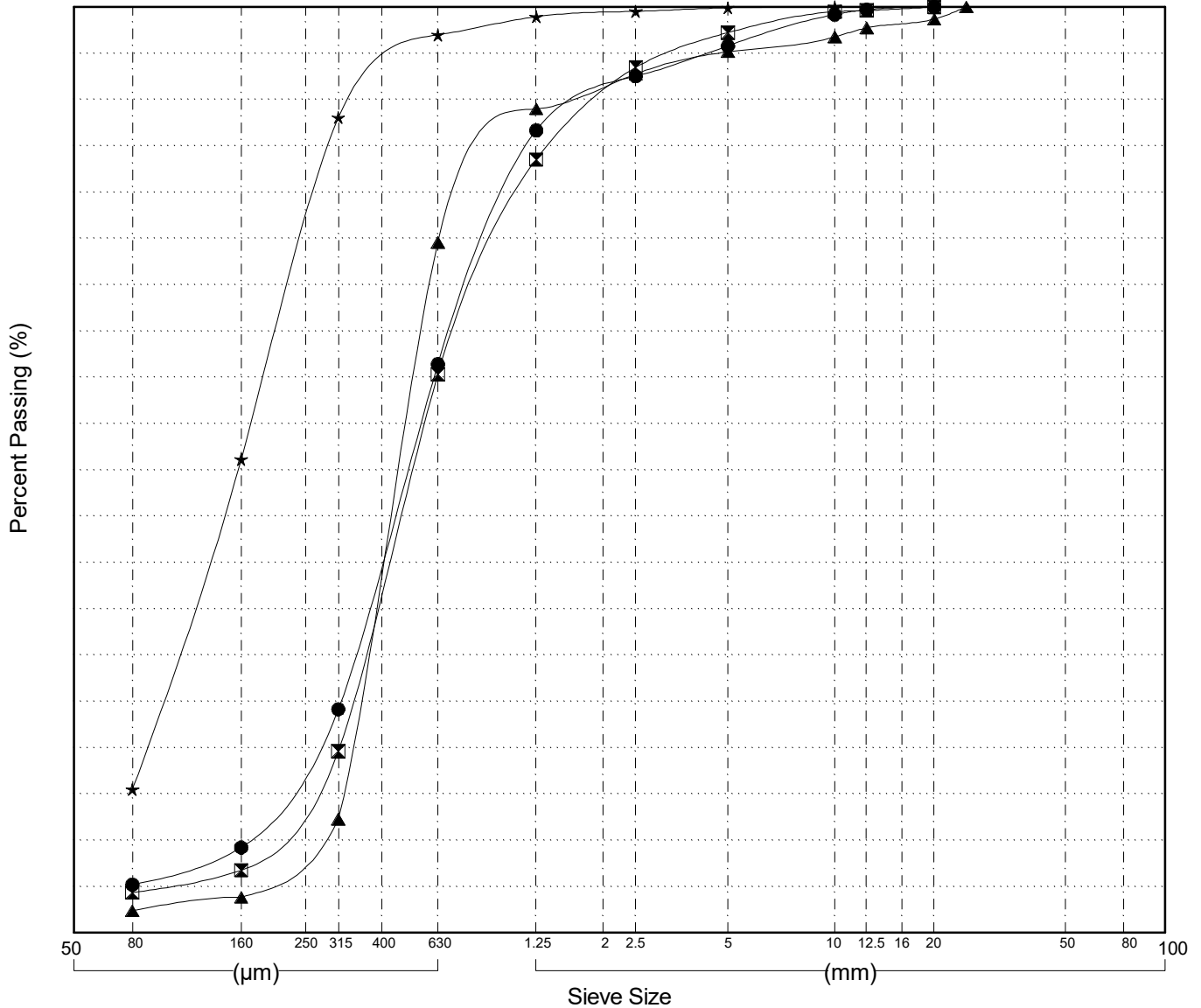
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5540
	km 1406.5 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718435.8m E505015.8m	ELEVATION: 745.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 209	2015-565	0.0 to 1.5	POORLY GRADED SAND with SILT(SP-SM)	0.9	NP	NP	NP	1.2	3.7
☒ 210	2015-566	1.5 to 3.0	POORLY GRADED SAND(SP)	0.7	NP	NP	NP	1.2	3.3
▲ 211	2015-567	3.0 to 4.5	POORLY GRADED SAND(SP)	0.5	NP	NP	NP	1.0	2.0
★ 212	2015-568	4.5 to 6.0	SILTY SAND(SM)	5.0	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 209	2015-565	100.0	100.0	100.0	100.0	100.0	99.7	99.2	95.8	92.5	86.7	61.4	24.1	9.2	5.2	4.2	90.6	5.2	
☒ 210	2015-566	100.0	100.0	100.0	100.0	100.0	99.6	99.5	97.2	93.5	83.5	60.3	19.6	6.8	4.4	2.8	92.9	4.4	
▲ 211	2015-567	100.0	100.0	100.0	100.0	98.7	97.7	96.7	95.1	92.7	89.0	74.6	12.3	3.8	2.4	4.9	92.8	2.4	
★ 212	2015-568	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	98.9	97.0	88.0	51.1	15.5	0.1	84.4	15.5	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



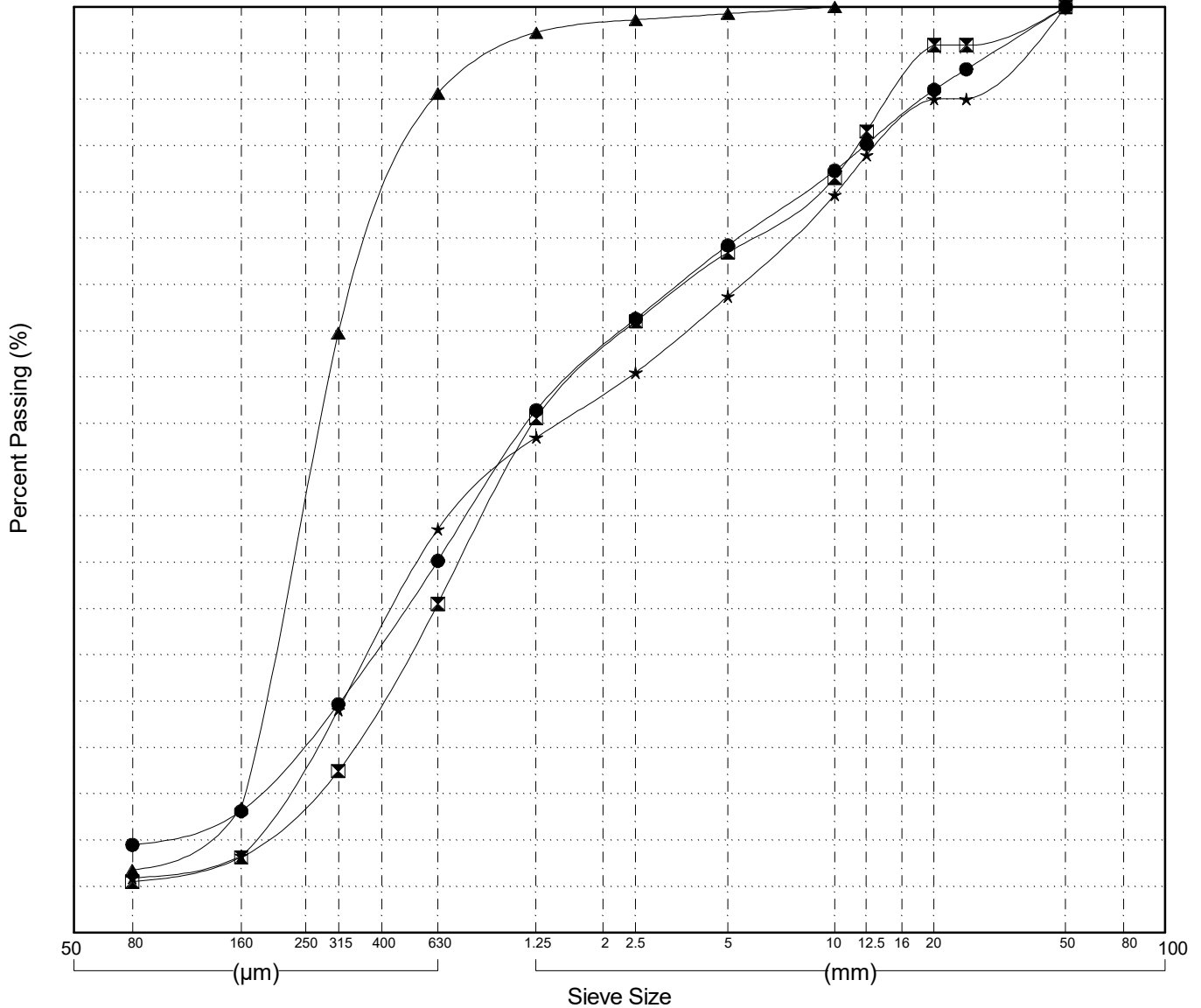
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5541
	km 1405.4 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718216.3m E505946m	ELEVATION: 748.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 213	2015-569	0.0 to 0.3	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	4.6	NP	NP	NP	1.2	19.3
☒ 214	2015-570	0.3 to 1.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	0.3	NP	NP	NP	0.8	9.2
▲ 215	2015-571	1.5 to 3.0	POORLY GRADED SAND with SILT(SP-SM)	2.2	NP	NP	NP	1.2	2.7
★ 216	2015-572	3.0 to 4.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	1.7	NP	NP	NP	0.4	13.8

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 213	2015-569	100.0	100.0	100.0	93.3	91.0	85.2	82.3	74.2	66.3	56.4	40.2	24.7	13.1	9.5	25.8	64.7	9.5	
☒ 214	2015-570	100.0	100.0	100.0	95.9	95.9	86.5	81.6	73.5	66.0	55.6	35.5	17.5	8.2	5.5	26.5	67.9	5.5	
▲ 215	2015-571	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	98.6	97.2	90.7	64.8	13.5	6.8	0.7	92.5	6.8	
★ 216	2015-572	100.0	100.0	100.0	90.1	90.1	84.0	79.7	68.7	60.5	53.5	43.6	24.1	8.3	5.9	31.3	62.8	5.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

Pit #
Complete: 9/26/2015

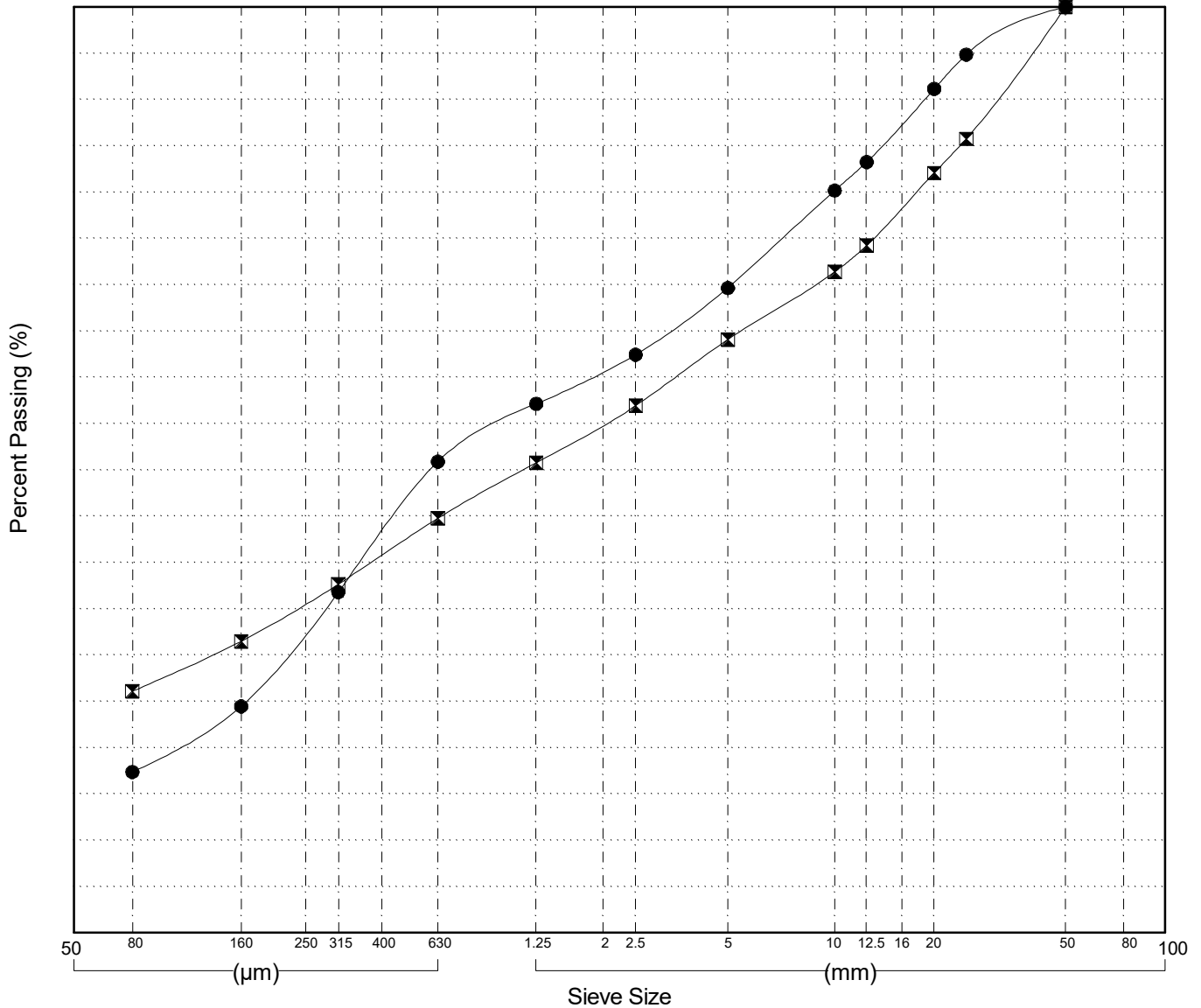
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5542
	km 1401.8 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6717840.7m E509677.5m	ELEVATION: 771.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 217	2015-573	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	5.4	NP	NP	NP		
☒ 218	2015-574	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	3.8	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 217	2015-573	100.0	100.0	100.0	94.8	91.1	83.2	80.2	69.6	62.4	57.1	50.9	36.8	24.5	17.4		30.4	52.3	17.4	
☒ 218	2015-574	100.0	100.0	100.0	85.8	82.1	74.2	71.4	64.1	56.9	50.8	44.8	37.7	31.5	26.1		35.9	38.0	26.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



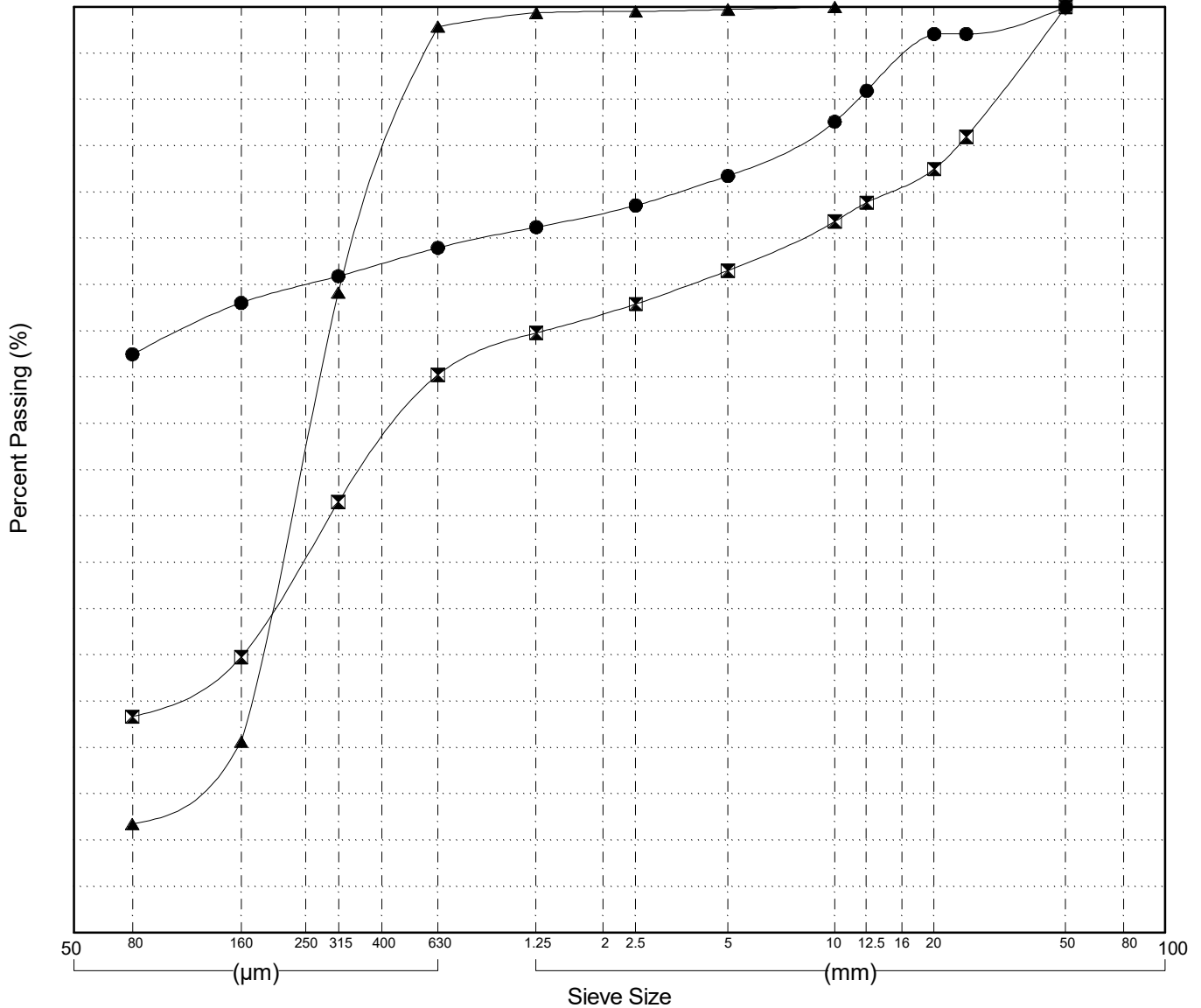
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5543
	km 1401.8 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6717875.1m E509715.7m	ELEVATION: 768.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 219	2015-575	0.0 to 1.5	SANDY SILT with GRAVEL(ML)	7.2	NP	NP	NP		
☒ 220	2015-576	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	4.0	NP	NP	NP		
▲ 221	2015-577	3.0 to 4.5	POORLY GRADED SAND with SILT(SP-SM)	3.0	NP	NP	NP	1.9	4.3

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 219	2015-575	100.0	100.0	100.0	97.1	97.1	90.9	87.6	81.8	78.6	76.2	74.0	70.9	68.0	62.5	18.2	19.3	62.5		
☒ 220	2015-576	100.0	100.0	100.0	86.0	82.5	78.9	76.8	71.5	67.9	64.8	60.3	46.5	29.8	23.3	28.5	48.2	23.3		
▲ 221	2015-577	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.5	99.3	97.9	69.2	20.7	11.8	0.3	88.0	11.8		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



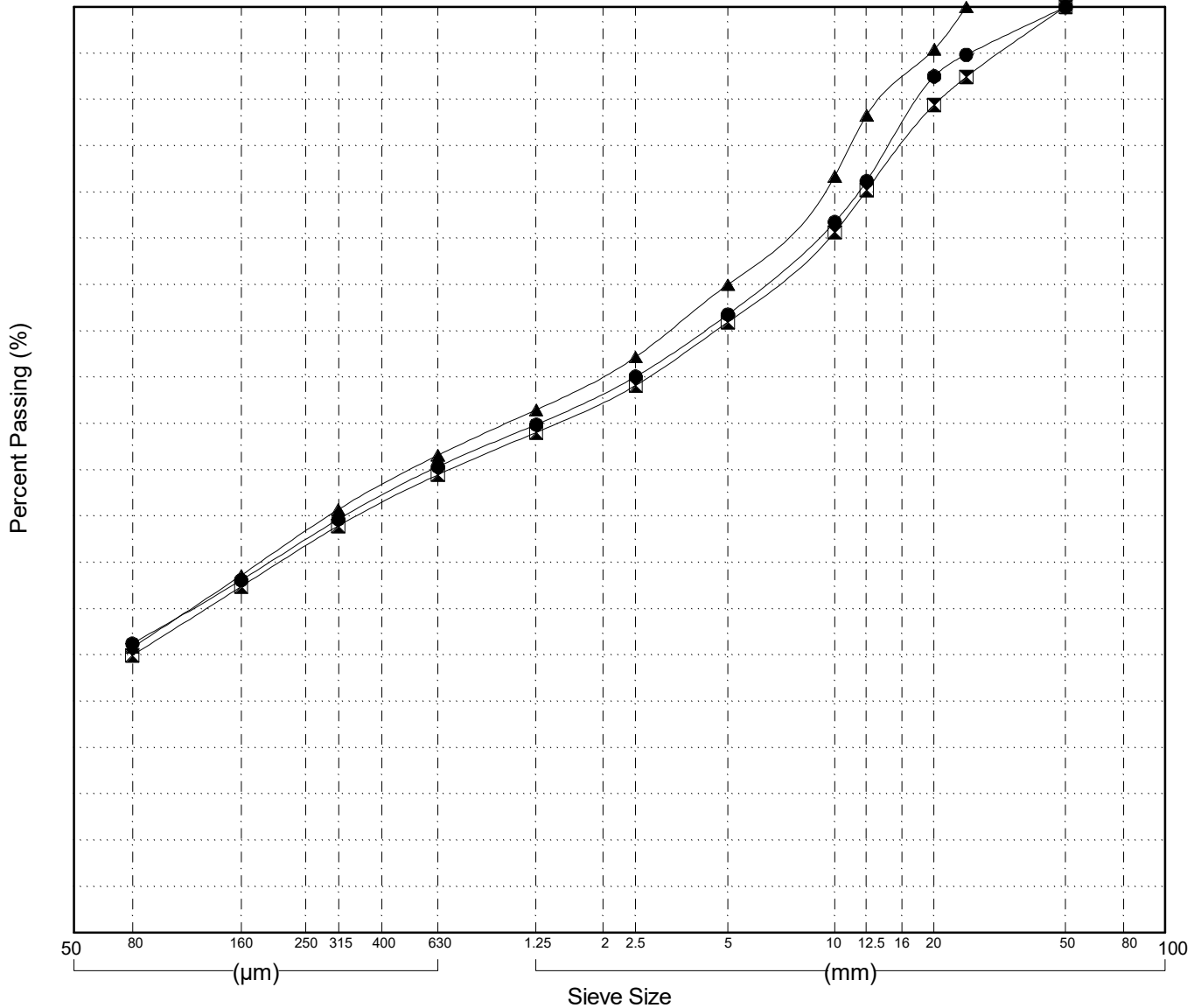
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5544
	km 1403.7 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718042m E507742.7m	ELEVATION: 762.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 222	2015-578	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	4.1	NP	NP	NP		
☒ 223	2015-579	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	3.2	NP	NP	NP		
▲ 224	2015-580	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	3.5	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 222	2015-578	100.0	100.0	100.0	94.8	92.5	81.2	76.8	66.8	60.1	54.9	50.3	44.7	38.1	31.2	33.2	35.5	31.2	
☒ 223	2015-579	100.0	100.0	100.0	92.4	89.4	80.2	75.7	65.9	59.1	54.0	49.5	44.0	37.4	30.0	34.1	36.0	30.0	
▲ 224	2015-580	100.0	100.0	100.0	100.0	95.4	88.3	81.7	70.0	62.2	56.5	51.6	45.7	38.6	30.8	30.0	39.2	30.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

Pit #
Complete: 9/26/2015

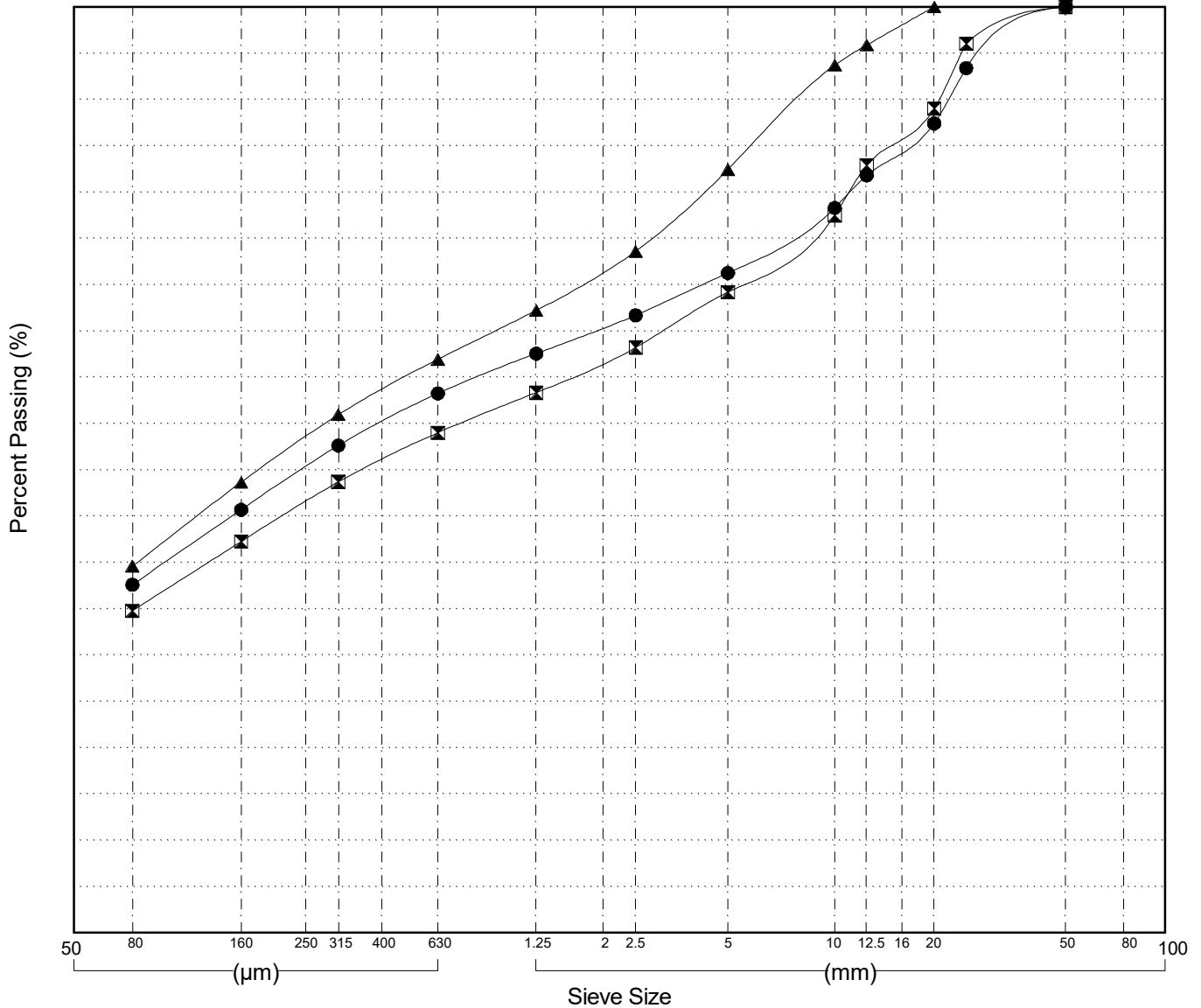
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5545
	km 1403.9 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718075.9m E507630.6m	ELEVATION: 758.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 225	2015-581	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	7.4	NP	NP	NP		
☒ 226	2015-582	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	2.7	NP	NP	NP		
▲ 227	2015-583	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	3.2	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 225	2015-581	100.0	100.0	100.0	100.0	93.4	87.4	81.8	78.3	71.3	66.7	62.6	58.3	52.6	45.7	37.6	28.7	33.7	37.6	
☒ 226	2015-582	100.0	100.0	100.0	96.0	89.0	82.9	77.5	69.2	63.2	58.3	54.0	48.7	42.3	34.8	30.8	34.4	34.8		
▲ 227	2015-583	100.0	100.0	100.0	100.0	100.0	95.9	93.7	82.4	73.6	67.2	61.9	56.0	48.7	39.6	17.6	42.8	39.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

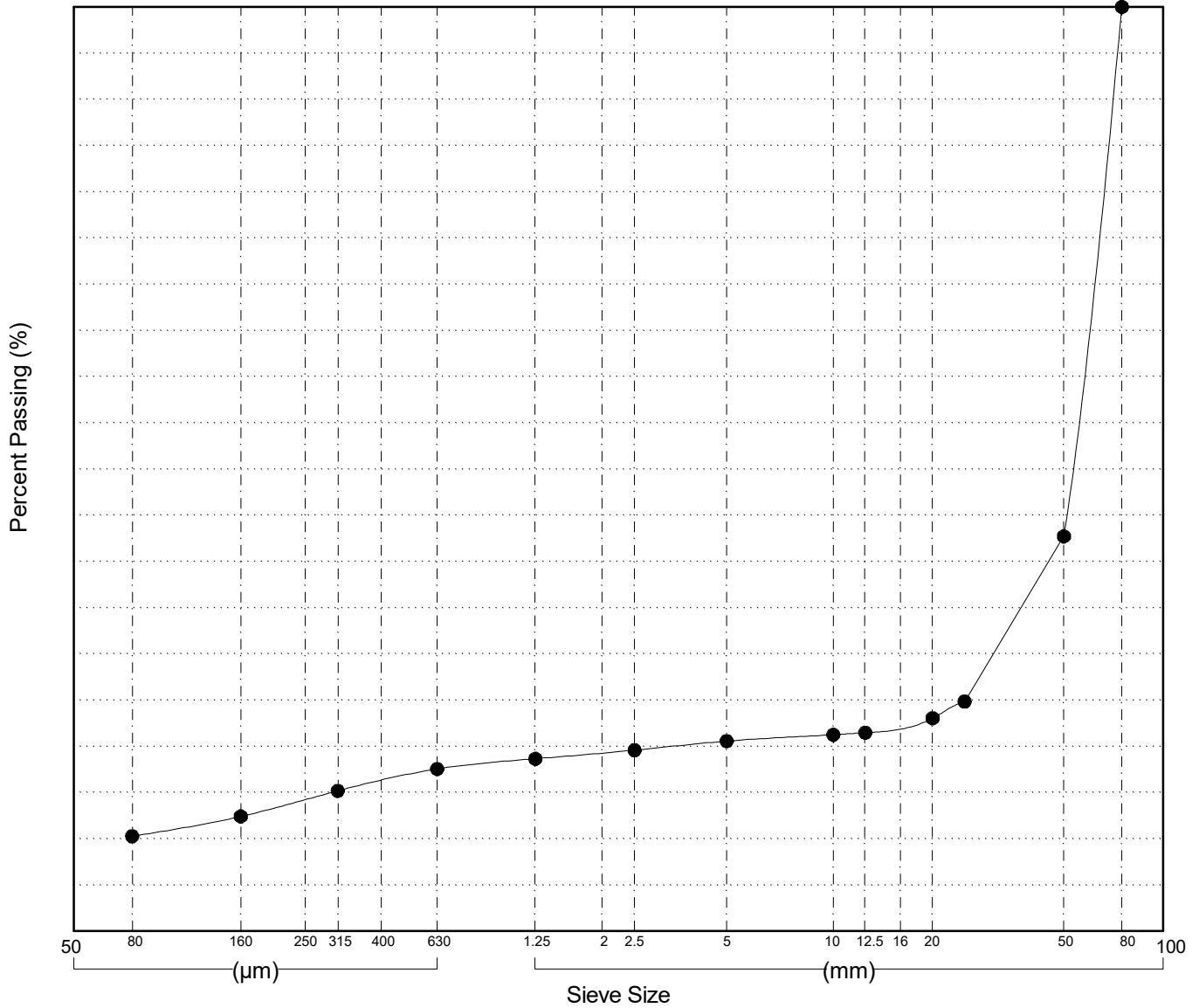


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5546
	km 1405.3 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718238.2m E506142.7m	ELEVATION: 754.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu										
● 228	2015-584	0.0 to 0.3	POORLY GRADED GRAVEL with SILT (GP-GM)	0.5	NP	NP	NP	243.1	833.2										
Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
● 228	2015-584	100.0	100.0	42.7	24.9	23.0	21.5	21.3	20.6	19.6	18.7	17.6	15.2	12.4	10.3	Gravel	Sand	Silt	Clay
		% PASSING														79.4	10.3	10.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

Pit #
Complete: 9/26/2015

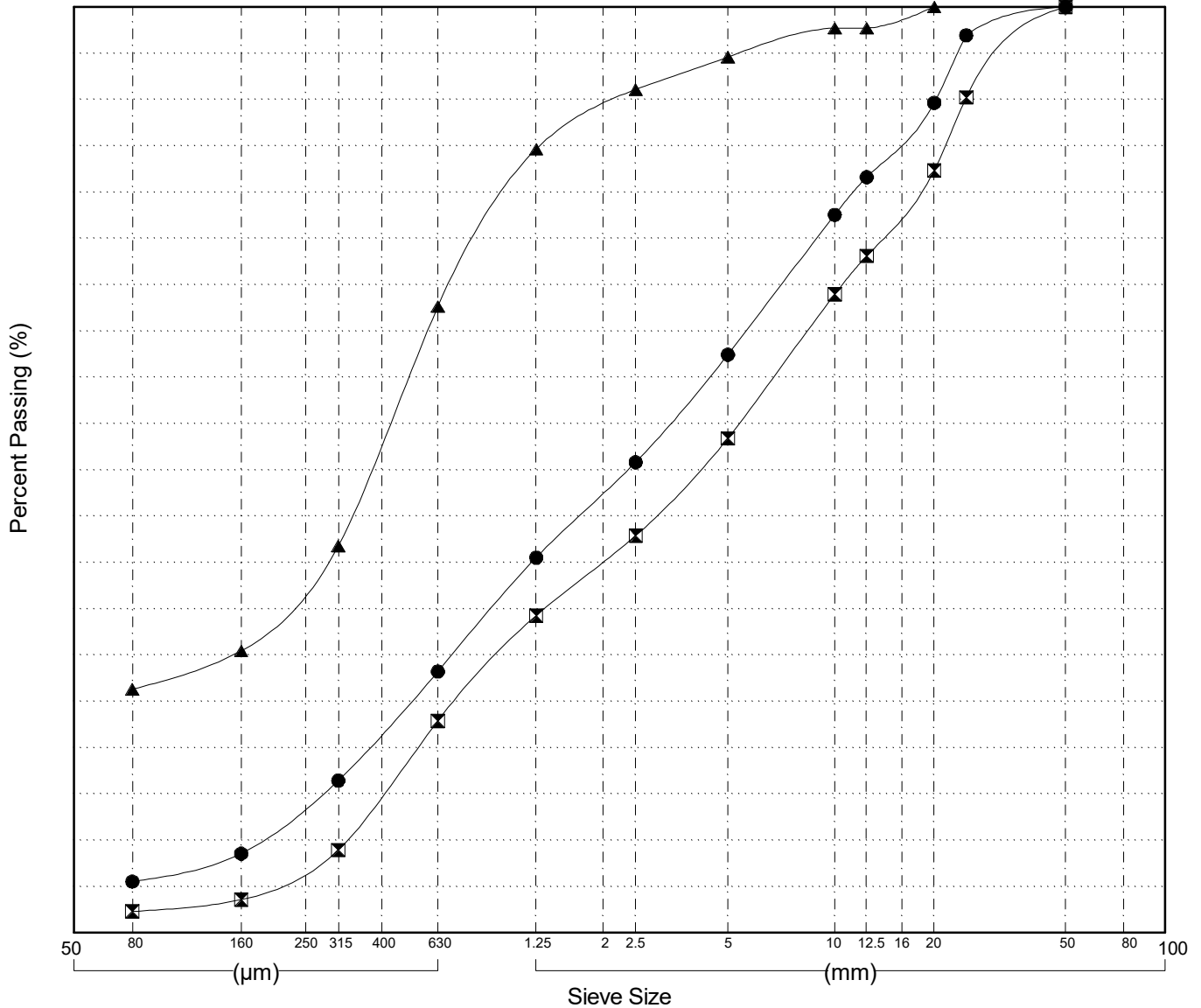
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5547
	km 1405.4 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718261.6m E505945.9m	ELEVATION: 750m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 229	2015-585	0.0 to 1.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	0.3	NP	NP	NP	0.6	22.9
☒ 230	2015-586	1.5 to 3.0	POORLY GRADED SAND with GRAVEL(SP)	0.2	NP	NP	NP	0.4	19.6
▲ 231	2015-587	3.0 to 4.5	SILTY SAND(SM)	0.8	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 229	2015-585	100.0	100.0	100.0	96.9	89.6	81.6	77.5	62.4	50.8	40.5	28.2	16.4	8.6	5.5	37.6	56.9	5.5	
☒ 230	2015-586	100.0	100.0	100.0	90.2	82.3	73.1	69.0	53.4	42.9	34.3	22.9	9.0	3.6	2.3	46.6	51.1	2.3	
▲ 231	2015-587	100.0	100.0	100.0	100.0	100.0	97.7	97.7	94.6	91.1	84.6	67.7	41.8	30.5	26.3	5.4	68.3	26.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



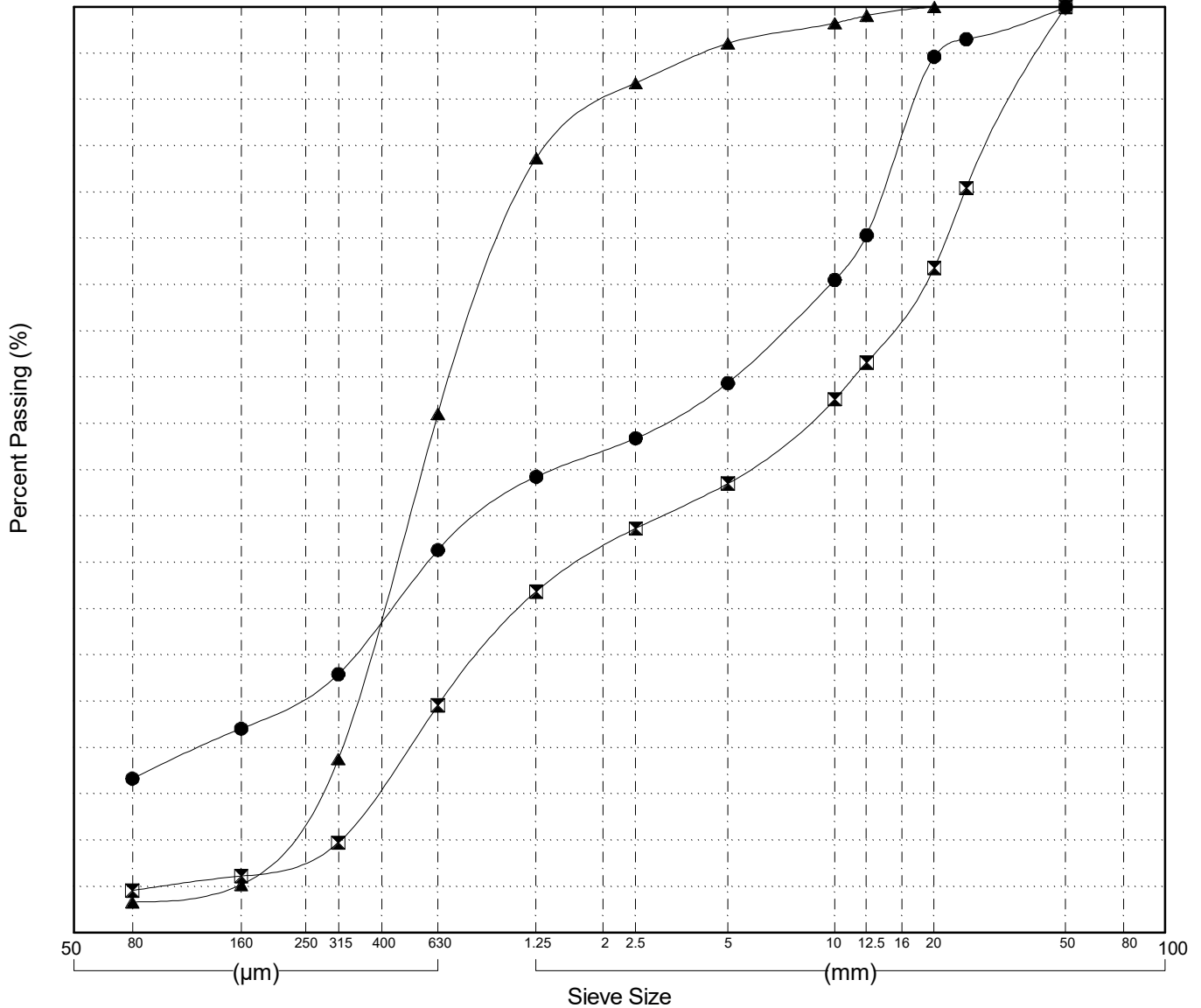
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 881-5548
	km 1405.8 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6718294m E505698.3m	ELEVATION: 738.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 232	2015-588	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	3.7	NP	NP	NP		
☒ 233	2015-589	1.5 to 3.0	POORLY GRADED GRAVEL with SAND(GP)	0.4	NP	NP	NP	0.2	35.8
▲ 234	2015-590	3.0 to 4.5	POORLY GRADED SAND(SP)	0.7	NP	NP	NP	1.1	3.4

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 232	2015-588	100.0	100.0	100.0	96.5	94.6	75.4	70.5	59.4	53.4	49.3	41.3	27.9	22.1	16.7		40.6	42.7	16.7	
☒ 233	2015-589	100.0	100.0	100.0	80.4	71.8	61.6	57.6	48.5	43.7	36.9	24.6	9.7	6.1	4.6		51.5	43.9	4.6	
▲ 234	2015-590	100.0	100.0	100.0	100.0	100.0	99.1	98.2	96.1	91.8	83.7	56.1	18.8	5.2	3.3		3.9	92.7	3.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

Pit #
Complete: 9/26/2015

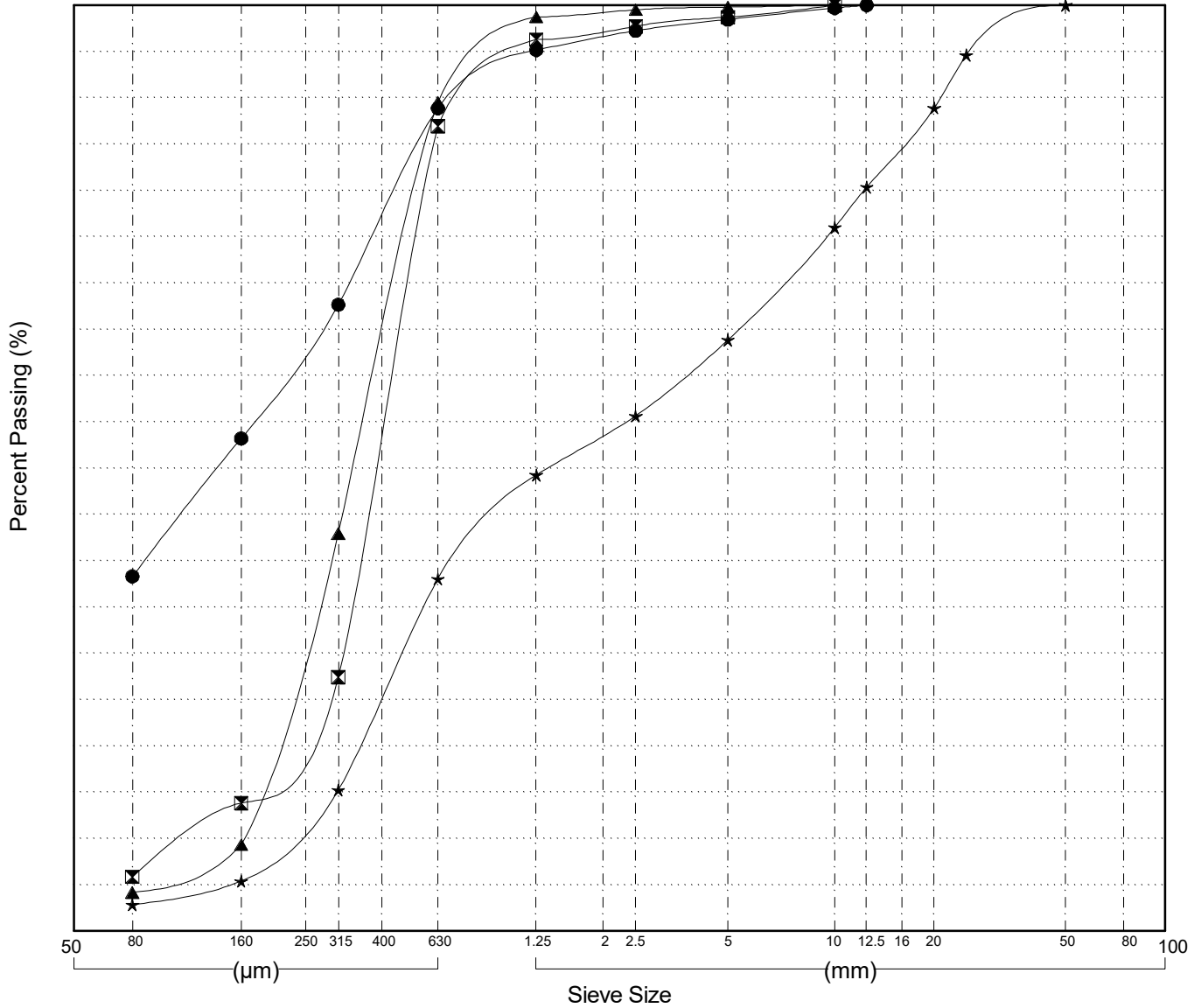
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5549
	km 1406.8 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6736659m E492179.7m	ELEVATION: 753.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 235	2015-591	0.0 to 0.5	SILTY SAND(SM)	3.2	NP	NP	NP		
☒ 236	2015-592	0.5 to 1.5	POORLY GRADED SAND with SILT(SP-SM)	0.2	NP	NP	NP	2.1	4.1
▲ 237	2015-593	1.5 to 3.0	POORLY GRADED SAND(SP)	0.4	NP	NP	NP	0.9	2.5
★ 238	2015-594	3.0 to 4.5	POORLY GRADED SAND with GRAVEL(SP)	0.4	NP	NP	NP	0.3	16.0

Field#	Lab#	% PASSING	Sieve Size (mm)																% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay		
● 235	2015-591	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.4	97.2	95.2	88.9	67.7	53.2	38.3	1.6	60.1	38.3			
☒ 236	2015-592	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	97.7	96.3	86.9	27.4	13.8	5.9	1.3	92.9	5.9				
▲ 237	2015-593	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.5	98.7	89.5	42.9	9.3	4.2	0.2	95.6	4.2				
★ 238	2015-594	100.0	100.0	100.0	94.6	88.9	80.4	76.0	63.8	55.6	49.3	38.0	15.2	5.4	2.9	36.2	61.0	2.9				

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



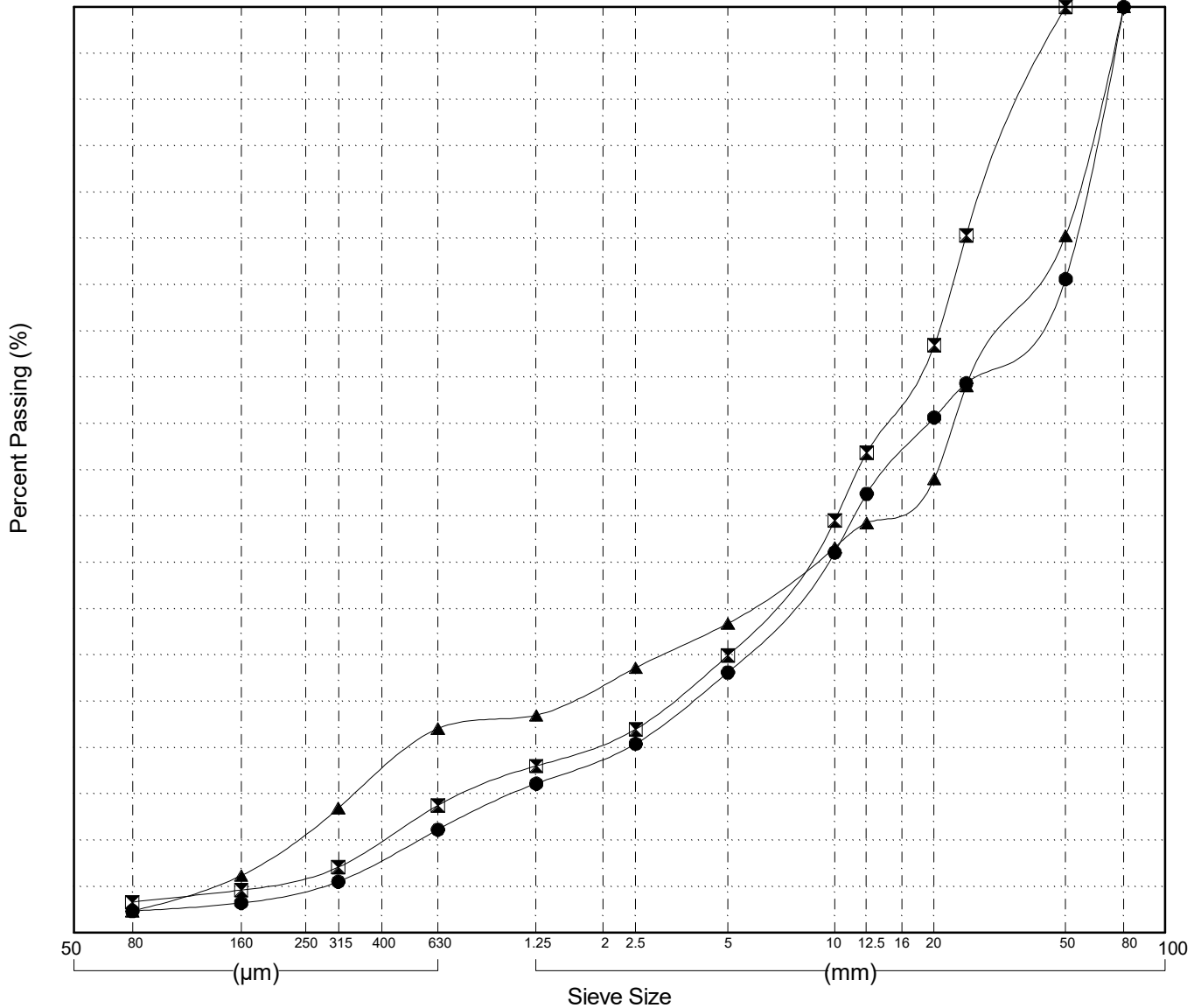
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5550
	km 1407.2 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6737023.1m E492023.1m	ELEVATION: 752.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 239	2015-595	0.0 to 1.5	WELL-GRADED GRAVEL with SAND(GW)	0.4	NP	NP	NP	2.0	47.6
☒ 240	2015-596	1.5 to 3.0	POORLY GRADED GRAVEL with SAND(GP)	0.3	NP	NP	NP	3.1	40.8
▲ 241	2015-597	3.0 to 4.5	WELL-GRADED GRAVEL with SAND(GW)	0.3	NP	NP	NP	1.5	114.0

Field#	Lab#	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 239	2015-595	100.0	100.0	70.6	59.4	55.7	47.4	41.1	28.1	20.4	16.1	11.1	5.5	3.2	2.4	71.9	25.8	2.4	
☒ 240	2015-596	100.0	100.0	100.0	75.3	63.5	51.8	44.5	29.9	22.0	18.0	13.8	7.1	4.6	3.3	70.1	26.6	3.3	
▲ 241	2015-597	100.0	100.0	75.3	59.1	49.0	44.3	41.6	33.4	28.6	23.5	22.1	13.5	6.2	2.4	66.6	31.0	2.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



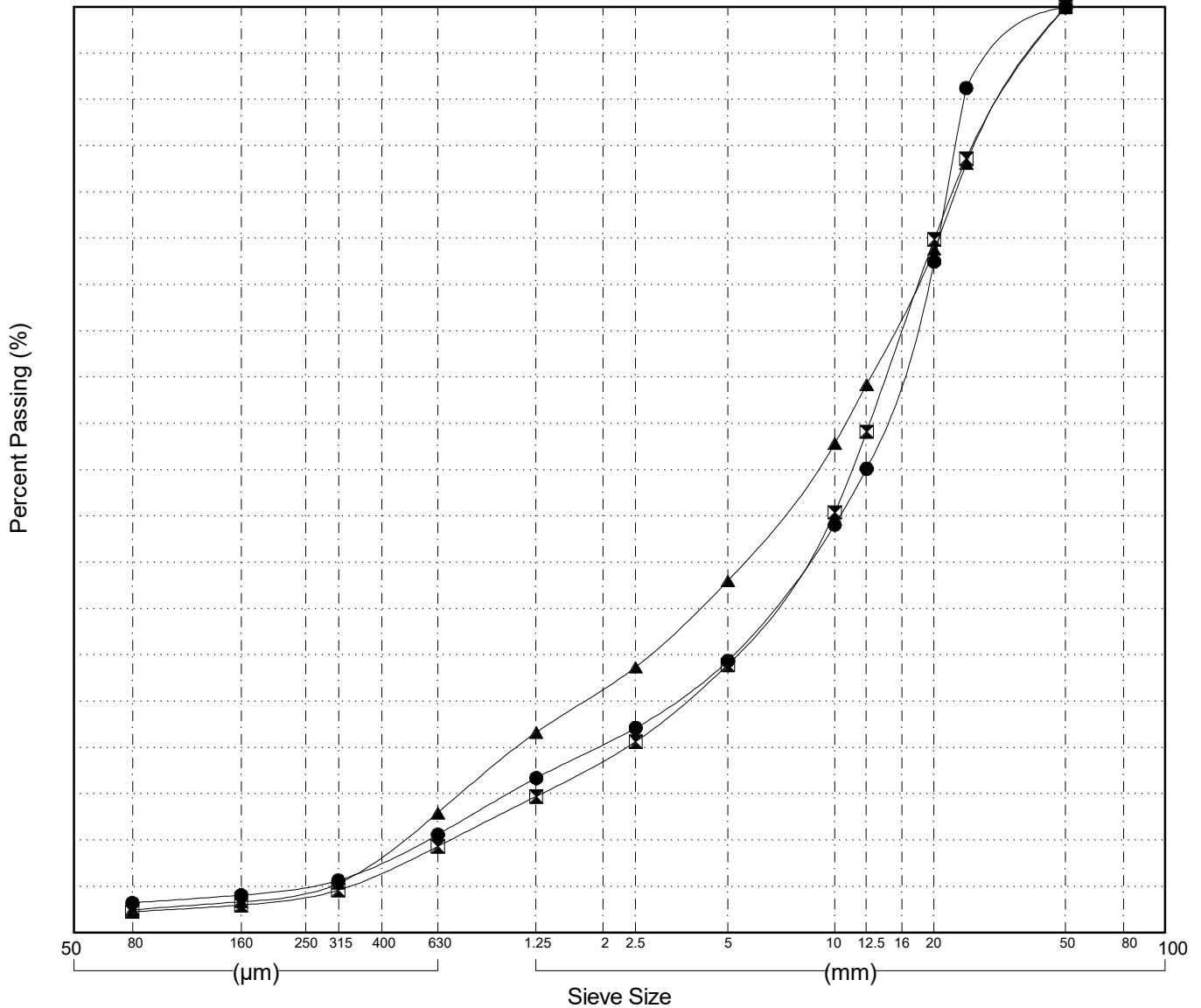
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5551
	km 1407.3 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6737243.5m E491923.1m	ELEVATION: 749.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 242	2015-598	0.0 to 1.5	WELL-GRADED GRAVEL with SAND(GW)	0.5	NP	NP	NP	2.7	26.6
☒ 243	2015-599	1.5 to 3.0	WELL-GRADED GRAVEL with SAND(GW)	0.3	NP	NP	NP	2.5	20.8
▲ 244	2015-600	3.0 to 4.5	WELL-GRADED GRAVEL with SAND(GW)	0.4	NP	NP	NP	1.2	26.6

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 242	2015-598	100.0	100.0	100.0	100.0	91.2	72.5	50.1	44.1	29.4	22.1	16.7	10.6	5.7	4.1	3.2	70.6	26.1	3.2
☒ 243	2015-599	100.0	100.0	100.0	83.6	74.9	54.1	45.4	29.0	20.7	14.7	9.3	4.6	3.0	2.3	71.0	26.7	2.3	
▲ 244	2015-600	100.0	100.0	100.0	83.1	73.8	59.2	52.9	38.0	28.7	21.6	13.0	5.3	3.4	2.5	62.0	35.5	2.5	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



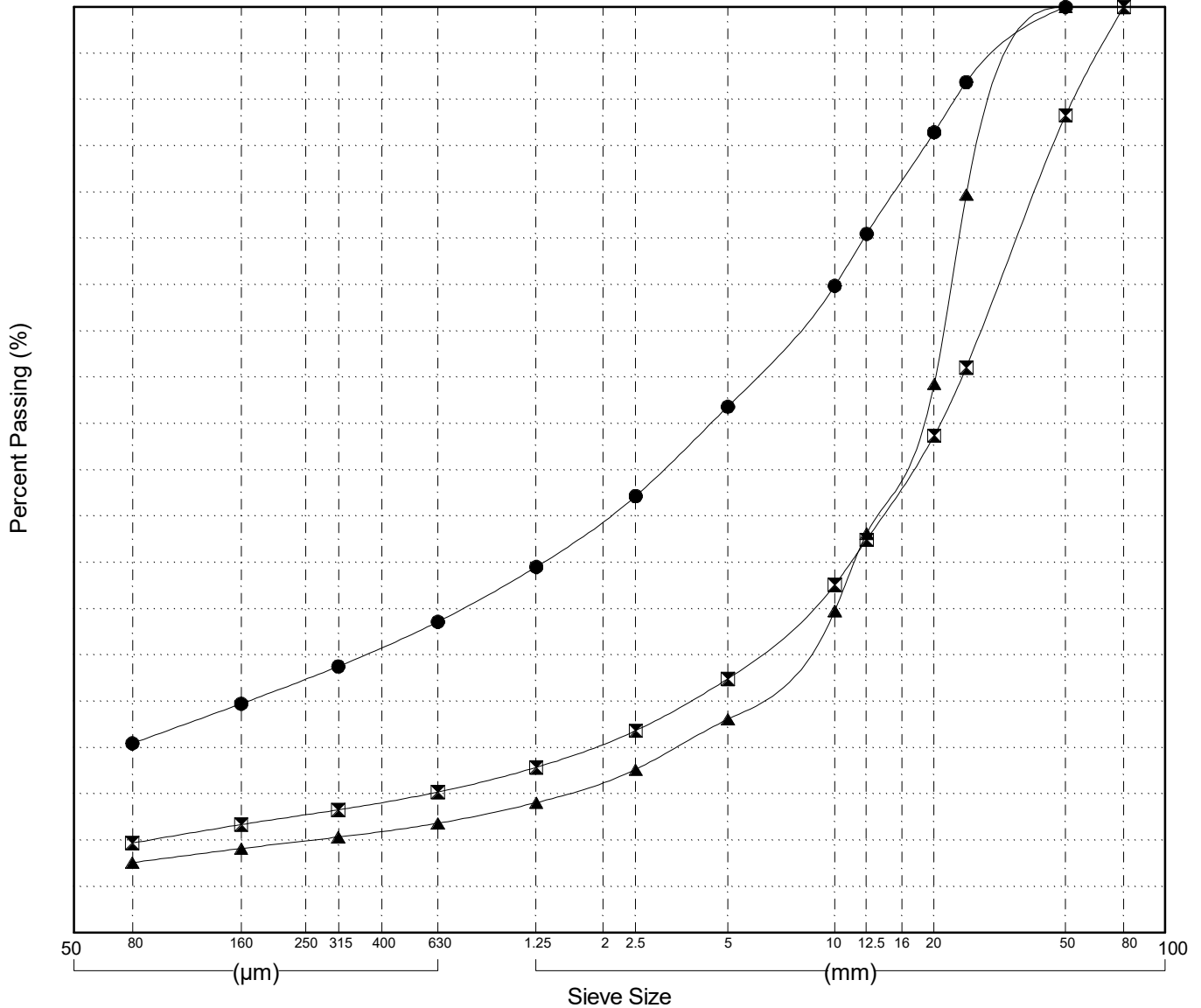
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5552
	km 1409.2 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6737384.9m E491857.2m	ELEVATION: 748.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 245	2015-601	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	3.2	NP	NP	NP		
☒ 246	2015-602	1.5 to 3.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	1.1	NP	NP	NP	16.1	287.4
▲ 247	2015-603	3.0 to 4.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	0.7	NP	NP	NP	10.4	77.3

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown		
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand
● 245	2015-601	100.0	100.0	100.0	91.9	86.5	75.5	69.9	56.8	47.2	39.5	33.6	28.8	24.7	20.5	43.2	36.4	20.5
☒ 246	2015-602	100.0	100.0	88.3	61.1	53.7	42.5	37.6	27.4	21.8	17.9	15.2	13.3	11.7	9.7	72.6	17.7	9.7
▲ 247	2015-603	100.0	100.0	100.0	79.8	59.3	43.1	34.8	23.1	17.6	14.1	11.8	10.3	9.1	7.6	76.9	15.5	7.6

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



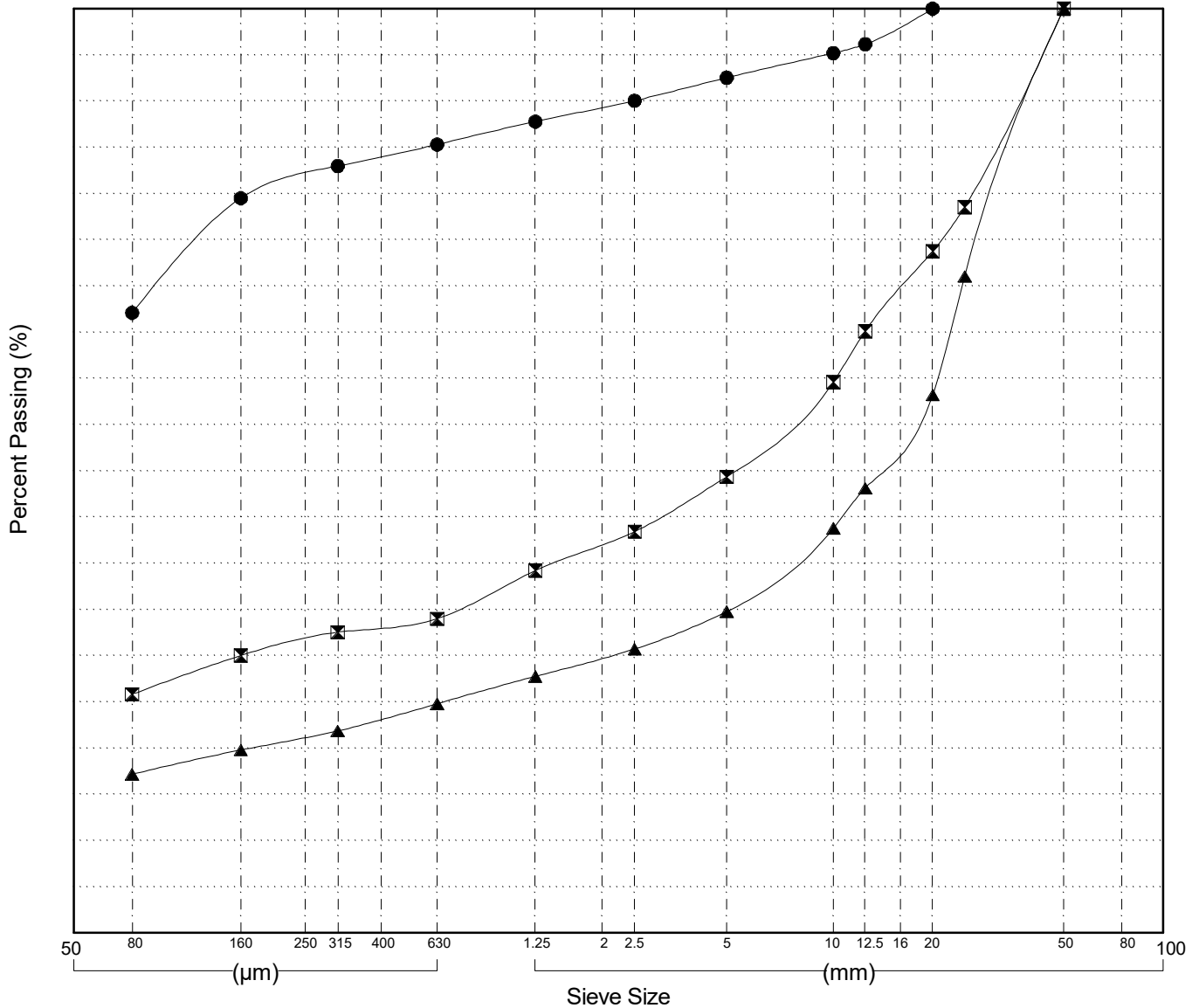
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5553
	km 1409.4 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6737620.1m E491703m	ELEVATION: 750.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 248	2015-604	0.0 to 1.5	SANDY SILT (ML)	13.3	NP	NP	NP		
☒ 249	2015-605	1.5 to 3.0	SILTY GRAVEL with SAND (GM)	5.7	NP	NP	NP		
▲ 250	2015-606	3.0 to 4.5	SILTY GRAVEL with SAND (GM)	2.6	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)														% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 248	2015-604	100.0	100.0	100.0	100.0	100.0	100.0	96.2	95.2	92.5	90.0	87.8	85.3	83.0	79.5	67.1	7.5	25.4	67.1	
☒ 249	2015-605	100.0	100.0	100.0	78.5	73.8	65.1	59.6	49.3	43.4	39.2	34.0	32.5	30.0	25.8	50.7	23.5	25.8		
▲ 250	2015-606	100.0	100.0	100.0	71.0	58.2	48.1	43.8	34.8	30.7	27.8	24.8	21.9	19.8	17.2	65.2	17.6	17.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



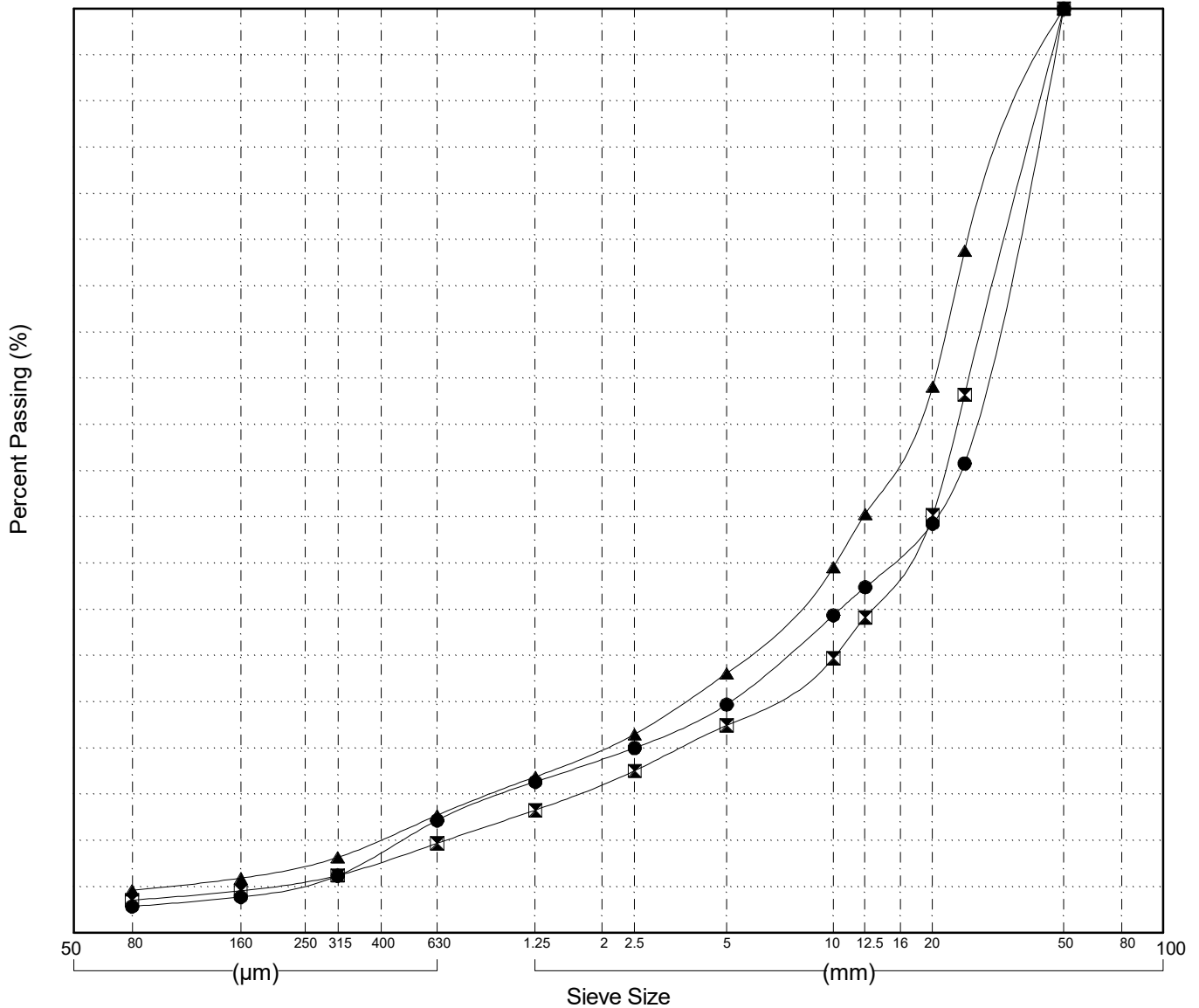
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5554
	km 1410.3 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6737764.1m E491579.3m	ELEVATION: 749.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 251	2015-607	0.0 to 1.5	POORLY GRADED GRAVEL with SAND(GP)	0.2	NP	NP	NP	3.7	58.2
☒ 252	2015-608	1.5 to 3.0	POORLY GRADED GRAVEL with SAND(GP)	0.2	NP	NP	NP	6.0	38.6
▲ 253	2015-609	3.0 to 4.5	POORLY GRADED GRAVEL with SAND(GP)	0.3	NP	NP	NP	3.4	48.8

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 251	2015-607	100.0	100.0	100.0	50.8	44.3	37.4	34.4	24.7	20.0	16.3	12.2	6.2	3.9	2.9	75.3	21.8	2.9	
☒ 252	2015-608	100.0	100.0	100.0	58.2	45.2	34.1	29.7	22.5	17.5	13.3	9.7	6.2	4.6	3.6	77.5	18.9	3.6	
▲ 253	2015-609	100.0	100.0	100.0	73.8	59.1	45.3	39.6	28.1	21.5	16.9	12.7	8.2	5.9	4.6	71.9	23.5	4.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: R.Kennedy-Kuiper
REVIEWED BY: R.Stilwell

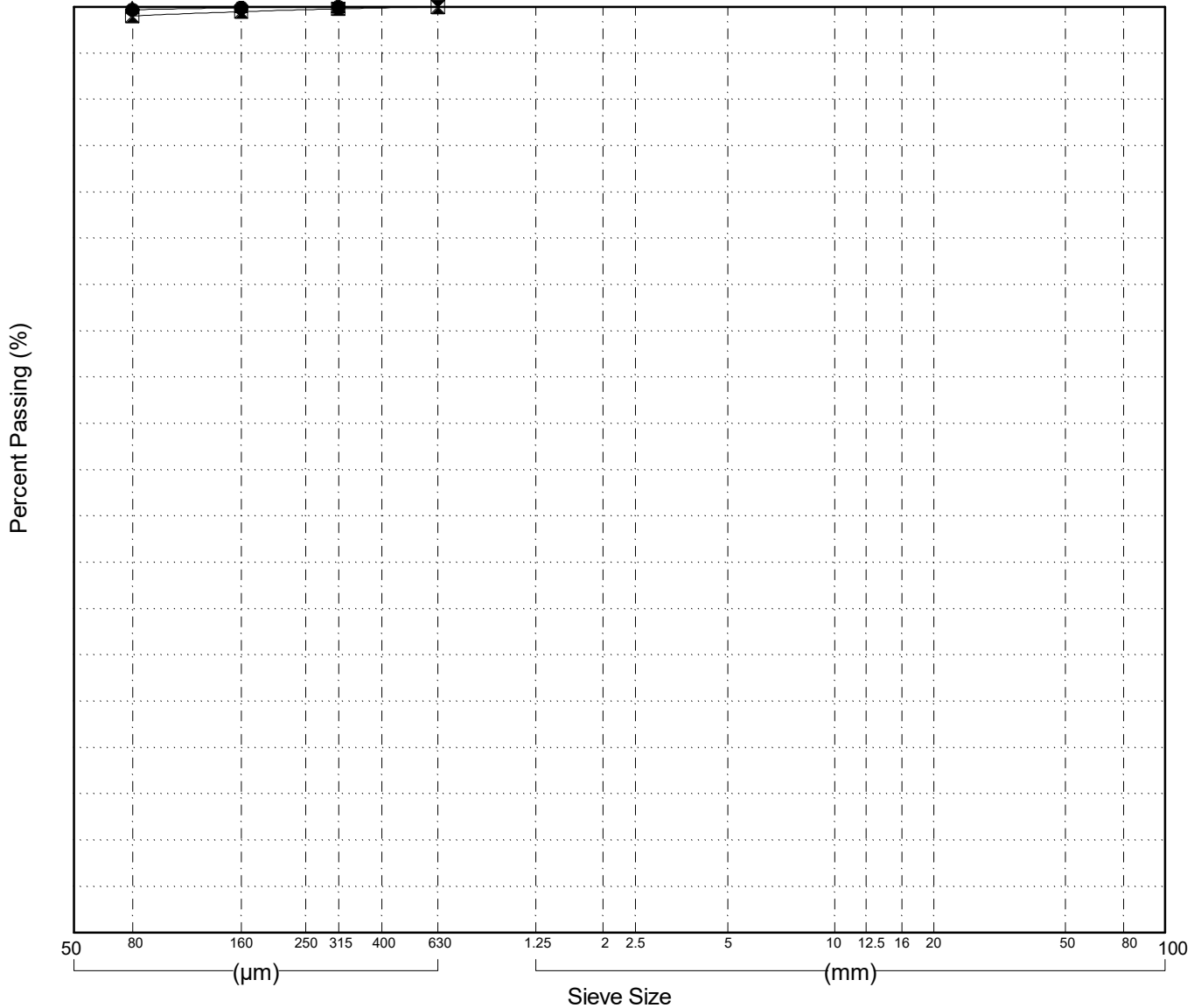
Pit #
Complete: 9/26/2015

GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5555
	km 1411.1 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6737849.6m E491487m	ELEVATION: 748.8m

Master Revised July 2013

Field#	Lab#	Depth	Classification													%H2O	LL	PL	PI	Cc	Cu		
● 254	2015-610	0.0 to 1.5	SILT(ML)													15.4	NP	NP	NP				
☒ 255	2015-611	1.5 to 3.0	SILT(ML)													9.0	NP	NP	NP				
▲ 256	2015-612	3.0 to 4.5	SILT(ML)													19.9	NP	NP	NP				
Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown						
● 254	2015-610		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.7	Gravel	Sand	Silt	Clay	
☒ 255	2015-611		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.5	99.0	0.0	1.0	99.0	
▲ 256	2015-612		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	100.0		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



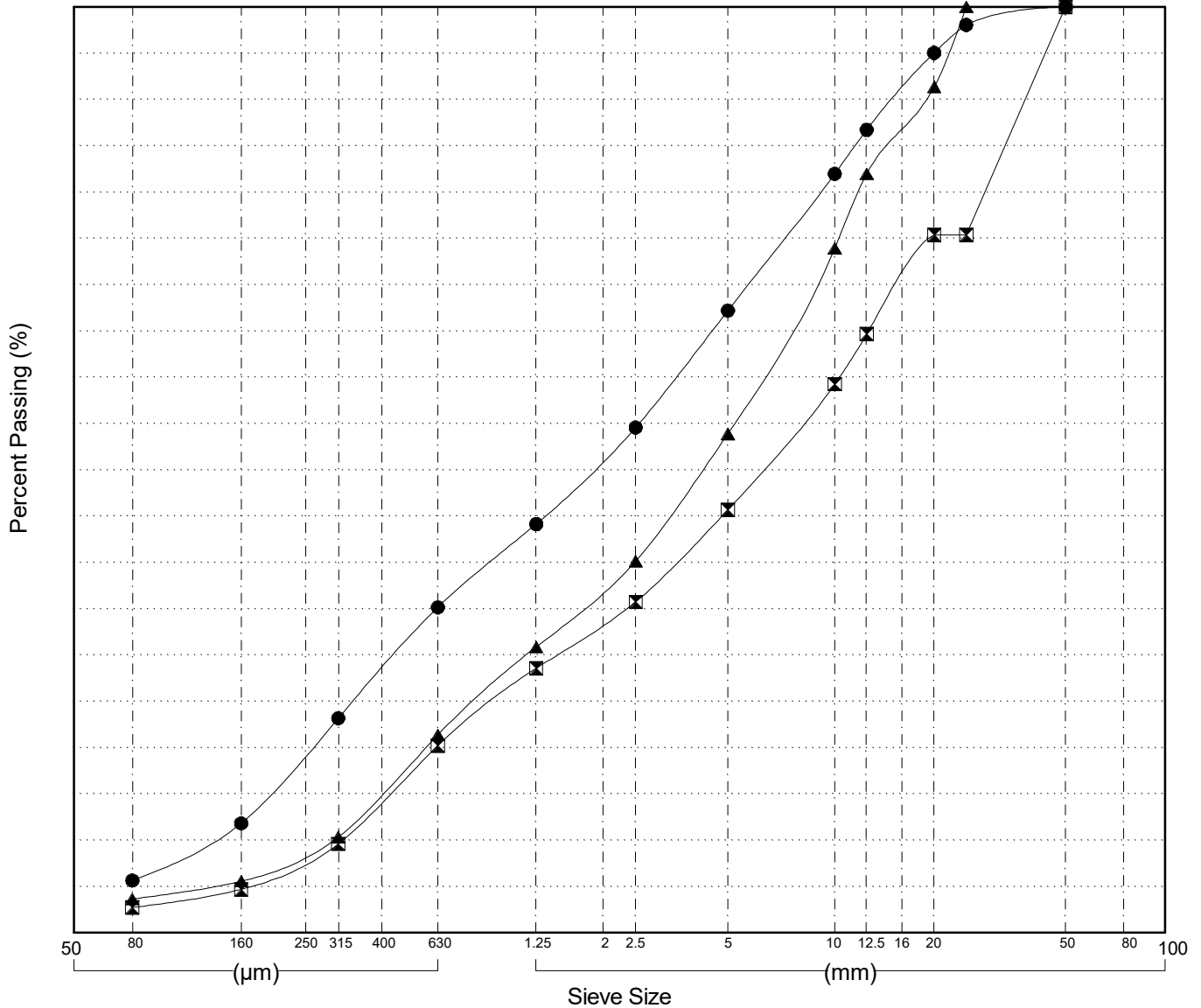
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5556
	km 1411.9 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6738037.4m E491315.3m	ELEVATION: 750.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 257	2015-613	0.0 to 1.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	1.3	NP	NP	NP	0.5	25.8
☒ 258	2015-614	1.5 to 3.0	POORLY GRADED GRAVEL with SAND(GP)	0.5	NP	NP	NP	0.6	31.9
▲ 259	2015-615	3.0 to 4.5	POORLY GRADED SAND with GRAVEL(SP)	0.9	NP	NP	NP	0.8	19.9

Field#	Lab#	% PASSING	Sieve Size													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 257	2015-613	100.0	100.0	100.0	100.0	98.1	95.0	86.7	82.0	67.2	54.6	44.1	35.2	23.2	11.8	5.7	32.8	61.5	5.7	
☒ 258	2015-614	100.0	100.0	100.0	75.4	75.4	64.7	59.3	45.7	35.7	28.6	20.2	9.6	4.7	2.7		54.3	42.9	2.7	
▲ 259	2015-615	100.0	100.0	100.0	100.0	91.4	82.0	73.9	53.9	40.1	30.9	21.4	10.3	5.6	3.7		46.1	50.2	3.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



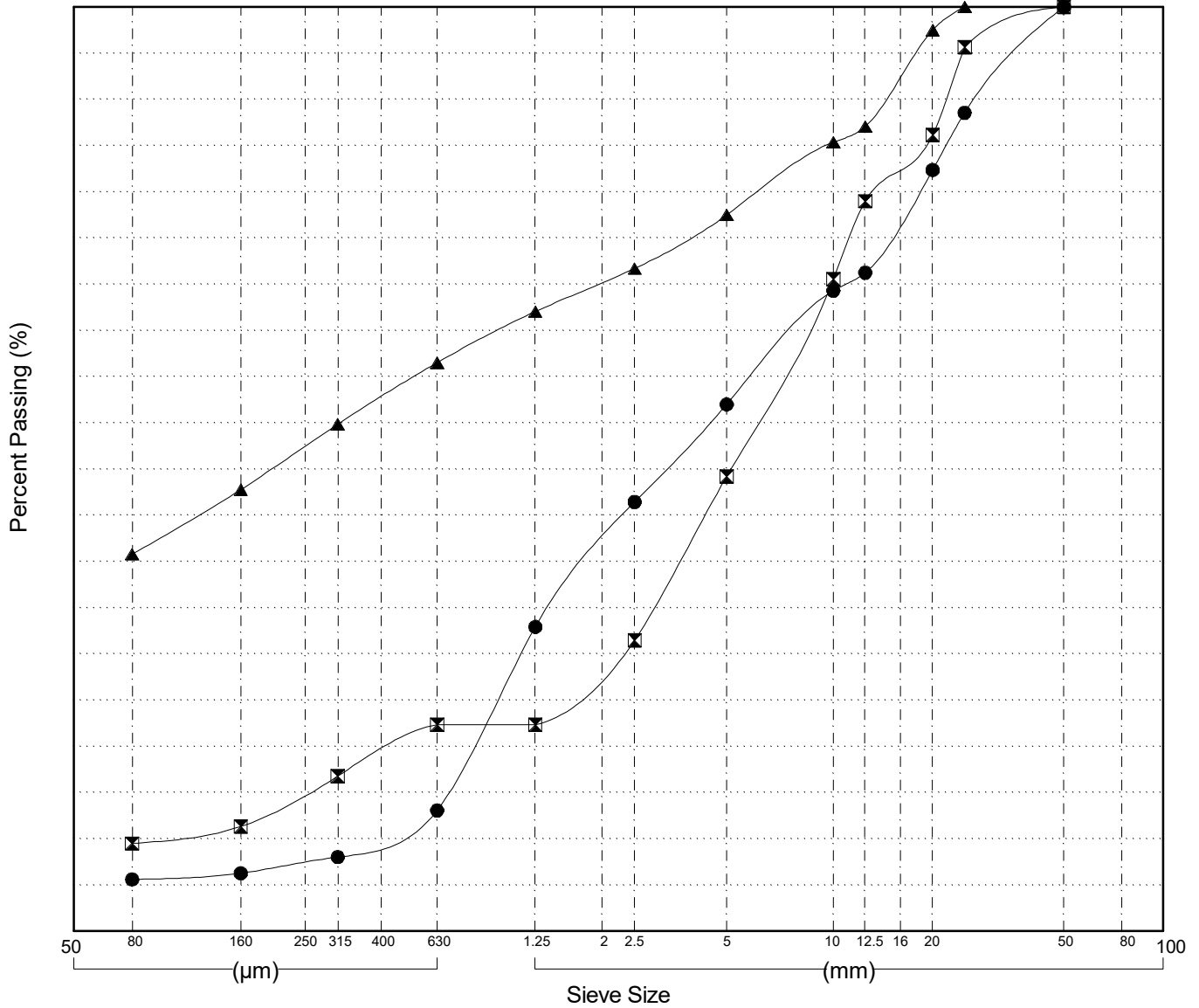
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5557
	km 1412.2 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6738052.7m E491324.7m	ELEVATION: 747.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 260	2015-616	0.0 to 1.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	1.0	NP	NP	NP	0.5	13.8
☒ 261	2015-617	1.5 to 3.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	2.0	NP	NP	NP	7.8	75.1
▲ 262	2015-618	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	5.7	NP	NP	NP		

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 260	2015-616	100.0	100.0	100.0	100.0	88.5	82.4	71.2	69.3	57.0	46.4	32.9	13.1	8.0	6.3	5.6	43.0	51.4	5.6	
☒ 261	2015-617	100.0	100.0	100.0	95.6	86.1	79.0	70.5	49.2	31.5	22.4	22.4	16.8	11.3	9.5	50.8	39.7	9.5		
▲ 262	2015-618	100.0	100.0	100.0	100.0	97.5	87.0	85.4	77.5	71.7	67.0	61.5	54.8	47.8	40.8	22.5	36.7	40.8		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



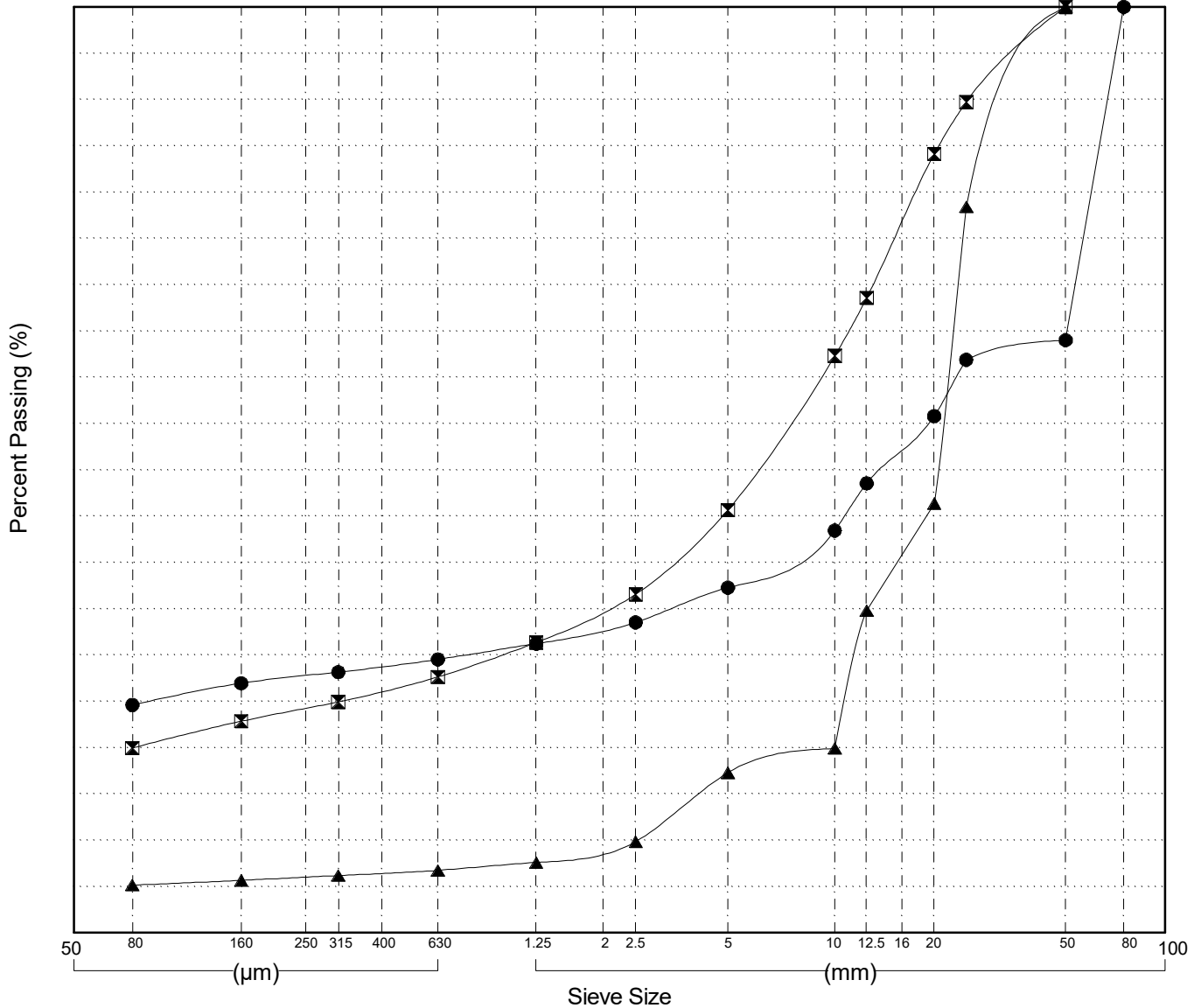
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5558
	km 1414.2 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6738813.1m E491034.4m	ELEVATION: 745.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	Cc	Cu
● 263	2015-619	0.0 to 1.5	SILTY GRAVEL(GM)	5.0	NP	NP	NP		
☒ 264	2015-620	1.5 to 3.0	SILTY GRAVEL with SAND(GM)	3.6	NP	NP	NP		
▲ 265	2015-621	3.0 to 4.5	WELL-GRADED GRAVEL with SILT(GW-GM)	0.6	NP	NP	NP	2.4	8.7

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 263	2015-619	100.0	100.0	64.0	61.9	55.8	48.5	43.5	37.3	33.5	31.2	29.5	28.2	27.0	24.6	24.6	62.7	12.7	24.6	
☒ 264	2015-620	100.0	100.0	100.0	89.7	84.1	68.6	62.3	45.7	36.6	31.4	27.6	24.9	22.9	20.0	20.0	54.3	25.7	20.0	
▲ 265	2015-621	100.0	100.0	100.0	78.4	46.4	34.8	19.9	17.3	9.9	7.6	6.7	6.2	5.7	5.2	5.2	82.7	12.1	5.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Dave Lorenzi
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit #
Complete: 9/26/2015

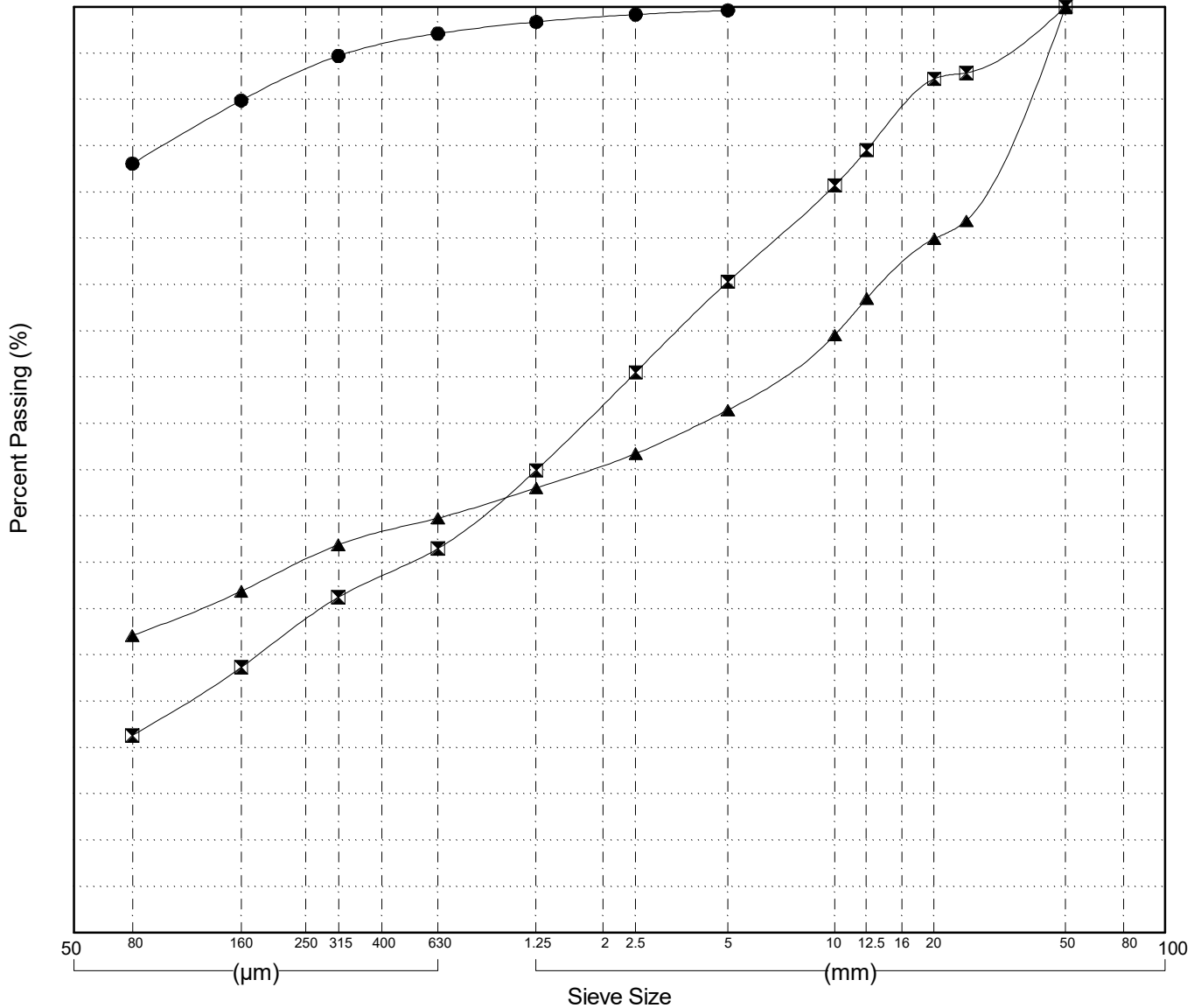
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5559
	km 1414.95 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6738826.8m E491066.2m	ELEVATION: 742.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 266	2015-622	0.0 to 1.3	SILT with SAND(ML)	14.3	NP	NP	NP		
☒ 267	2015-623	1.3 to 3.0	SILTY SAND with GRAVEL(SM)	6.2	NP	NP	NP		
▲ 268	2015-624	3.0 to 4.5	SILTY GRAVEL with SAND(GM)	6.7	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 266	2015-622	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.2	98.4	97.1	94.7	89.9	83.1	16.5	83.1		
☒ 267	2015-623	100.0	100.0	100.0	92.9	92.2	84.5	80.7	70.3	60.5	50.0	41.5	36.2	28.7	21.3		29.7	49.0	21.3	
▲ 268	2015-624	100.0	100.0	100.0	76.9	75.0	68.5	64.6	56.5	51.8	48.1	44.8	41.9	36.9	32.1		43.5	24.3	32.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

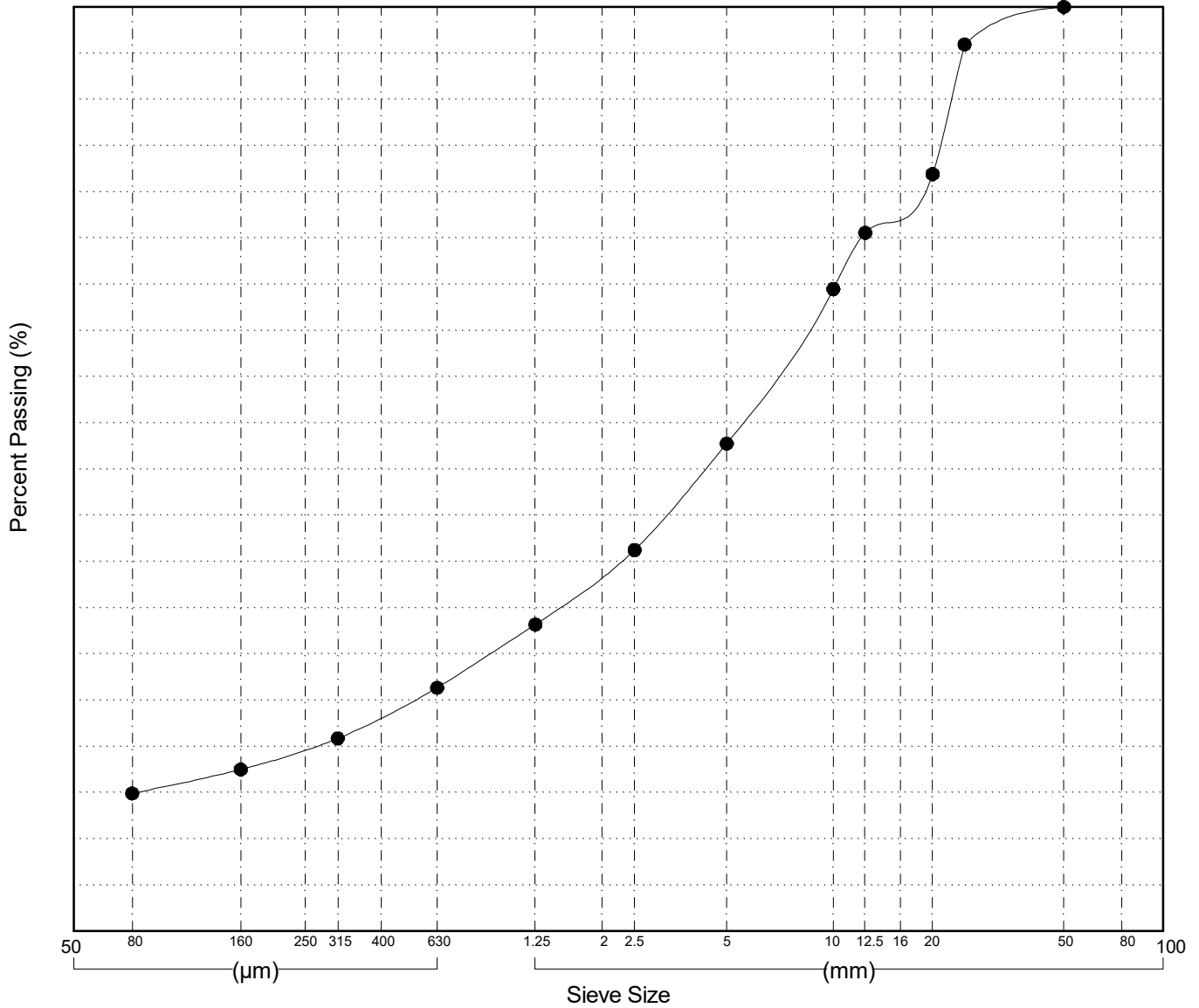


GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5560
	km 1415.3 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6739008.7m E490982m	ELEVATION: 739.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u									
● 269	2015-625	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	3.1	NP	NP	NP											
Field#	Lab#							% Breakdown										
● 269	2015-625							Gravel	Sand	Silt	Clay							
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	47.3	37.8	14.9
		100.0	100.0	100.0	95.9	81.9	75.6	69.5	52.7	41.2	33.2	26.3	20.9	17.5	14.9			

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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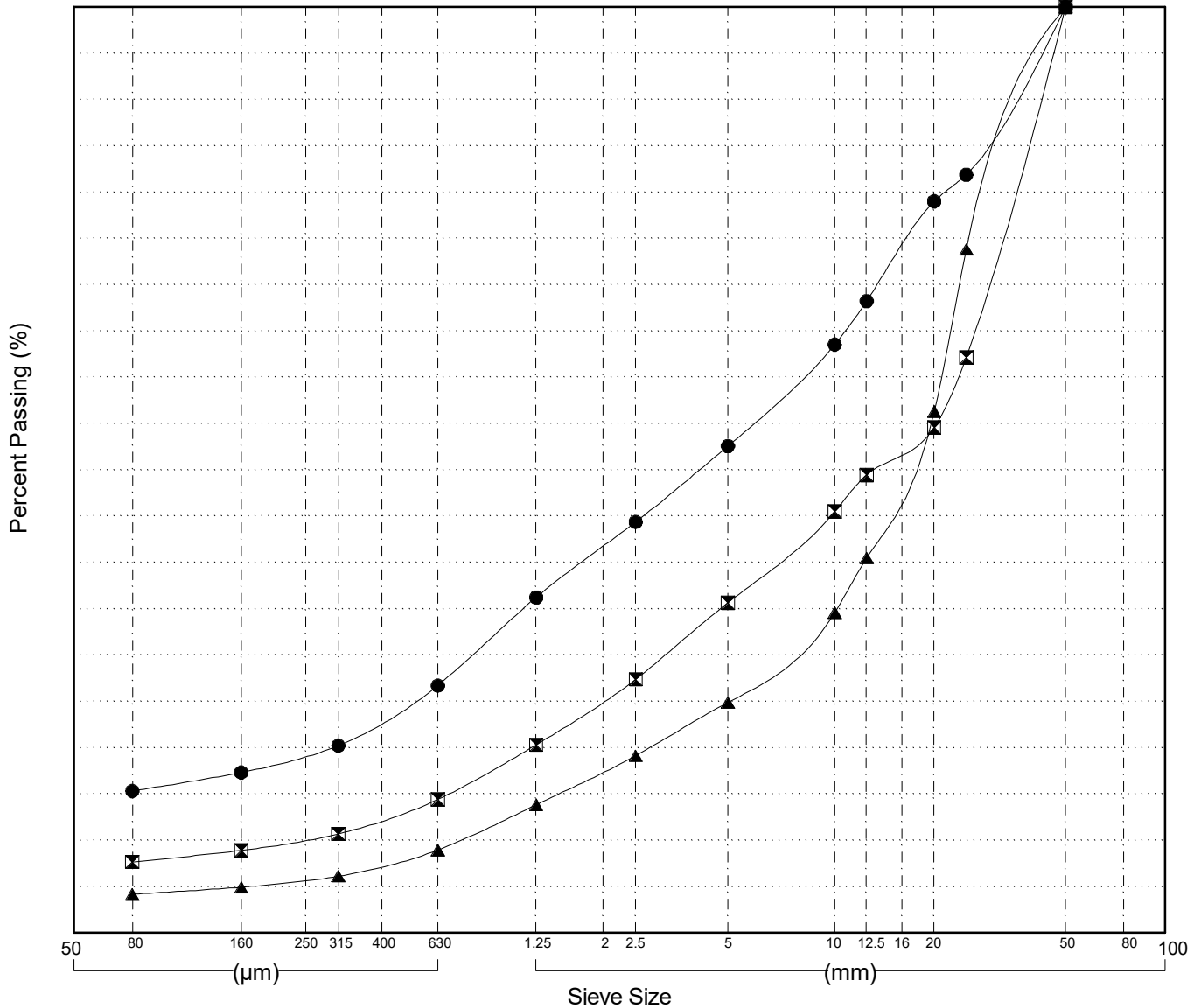
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5561
	km 1415.4 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6739183.3m E490938.6m	ELEVATION: 734.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 270	2015-626	0.0 to 1.5	SILTY GRAVEL with SAND(GM)	4.6	NP	NP	NP		
☒ 271	2015-627	1.5 to 3.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	1.9	NP	NP	NP	1.6	97.0
▲ 272	2015-628	3.0 to 4.5	POORLY GRADED GRAVEL with SAND(GP)	0.9	NP	NP	NP	3.2	28.7

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 270	2015-626	100.0	100.0	100.0	100.0	81.9	79.0	68.2	63.5	52.6	44.4	36.2	26.7	20.2	17.3	15.3	47.4	37.2	15.3	
☒ 271	2015-627	100.0	100.0	100.0	62.1	54.6	49.5	45.5	35.7	27.4	20.3	14.4	10.7	8.9	7.7		64.3	28.0	7.7	
▲ 272	2015-628	100.0	100.0	100.0	73.8	56.3	40.5	34.6	24.9	19.1	13.8	8.9	6.1	4.9	4.2		75.1	20.7	4.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



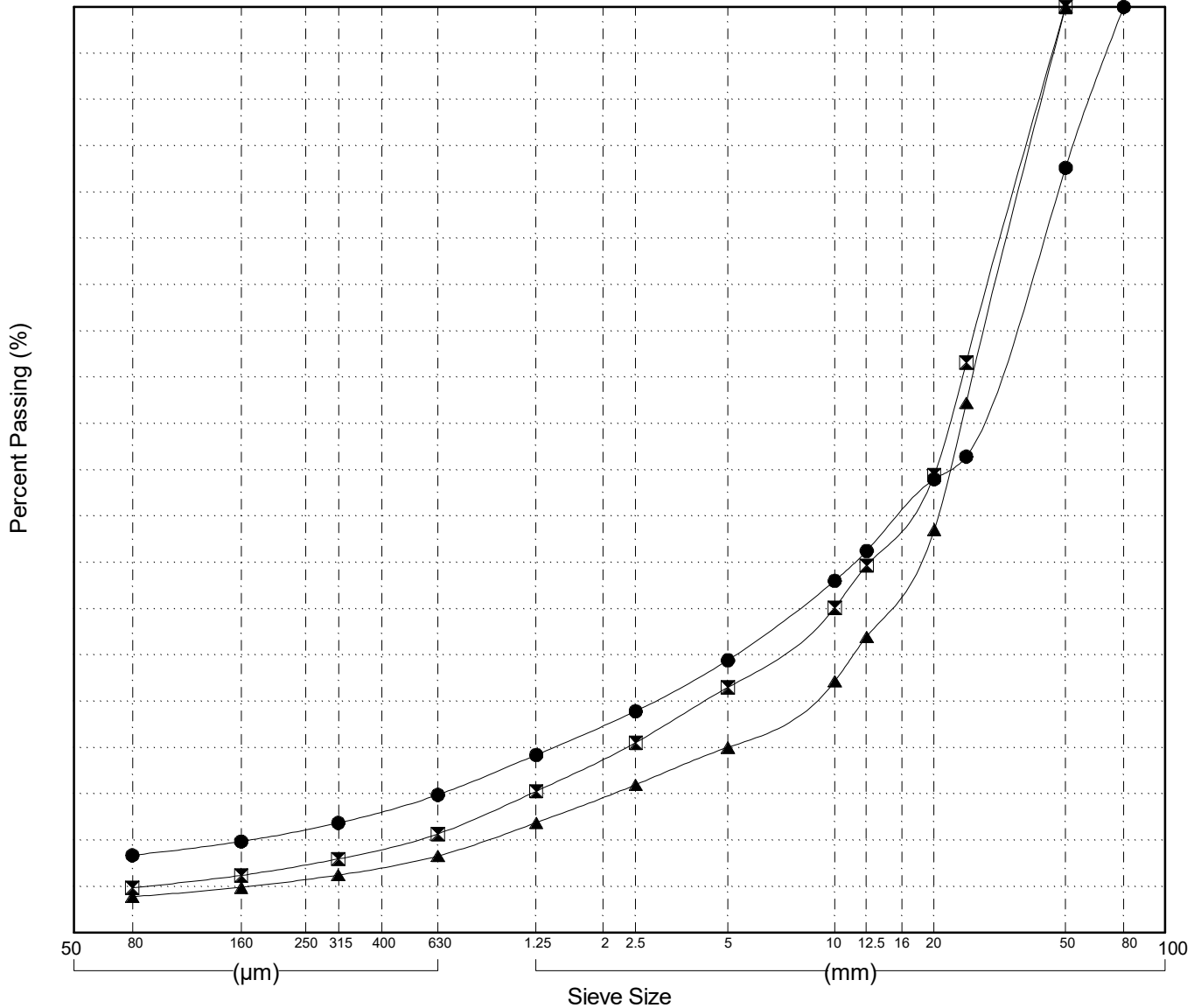
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5562
	km 1415.7 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6739183.3m E490938.6m	ELEVATION: 734.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 273	2015-629	0.0 to 1.5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	2.4	NP	NP	NP	4.9	180.7
☒ 274	2015-630	1.5 to 3.0	POORLY GRADED GRAVEL with SAND(GP)	1.2	NP	NP	NP	3.2	45.9
▲ 275	2015-631	3.0 to 4.5	POORLY GRADED GRAVEL with SAND(GP)	1.3	NP	NP	NP	5.7	30.0

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 273	2015-629	100.0	100.0	82.6	51.4	49.0	41.2	38.0	29.4	23.9	19.2	14.9	11.9	9.9	8.4	70.6	21.1	8.4	
☒ 274	2015-630	100.0	100.0	100.0	61.6	49.5	39.7	35.1	26.5	20.5	15.3	10.7	8.0	6.2	4.9	73.5	21.6	4.9	
▲ 275	2015-631	100.0	100.0	100.0	57.2	43.5	32.0	27.2	20.0	16.0	11.9	8.3	6.2	4.9	3.9	80.0	16.1	3.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



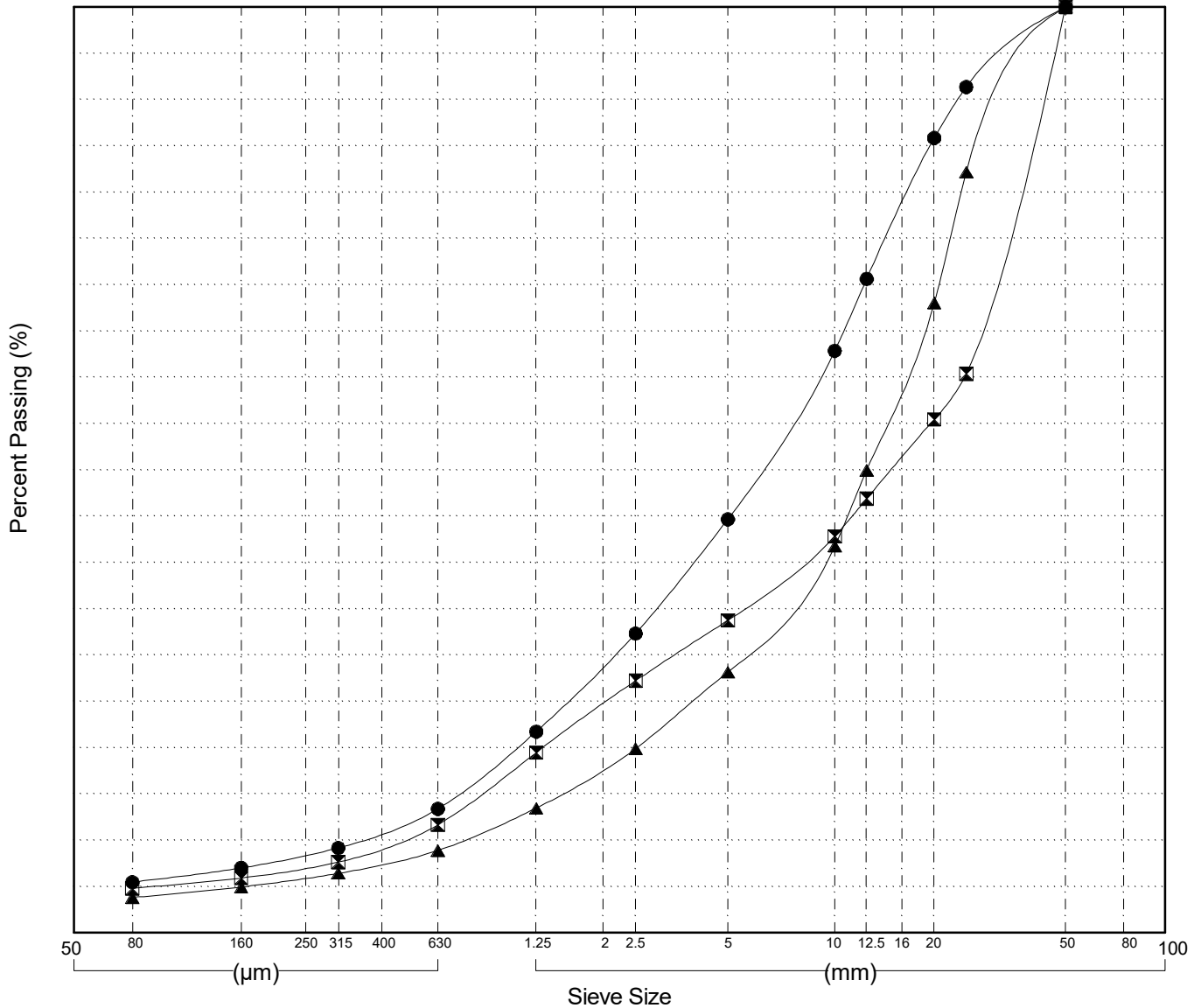
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5563
	km 1415.9 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6740531.9m E490391.7m	ELEVATION: 722.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 276	2015-632	0.0 to 1.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	1.5	NP	NP	NP	1.4	24.7
☒ 277	2015-633	1.5 to 3.0	POORLY GRADED GRAVEL with SAND(GP)	0.9	NP	NP	NP	0.9	52.0
▲ 278	2015-634	3.0 to 4.5	WELL-GRADED GRAVEL with SAND(GW)	0.7	NP	NP	NP	2.3	21.8

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 276	2015-632	100.0	100.0	100.0	91.4	85.8	70.6	62.9	44.7	32.3	21.7	13.4	9.2	7.0	5.5	55.3	39.2	5.5	
☒ 277	2015-633	100.0	100.0	100.0	60.4	55.5	46.9	42.8	33.7	27.2	19.5	11.7	7.6	5.9	4.8	66.3	28.9	4.8	
▲ 278	2015-634	100.0	100.0	100.0	82.2	68.0	50.0	41.8	28.2	19.9	13.5	8.9	6.4	4.9	3.8	71.8	24.3	3.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



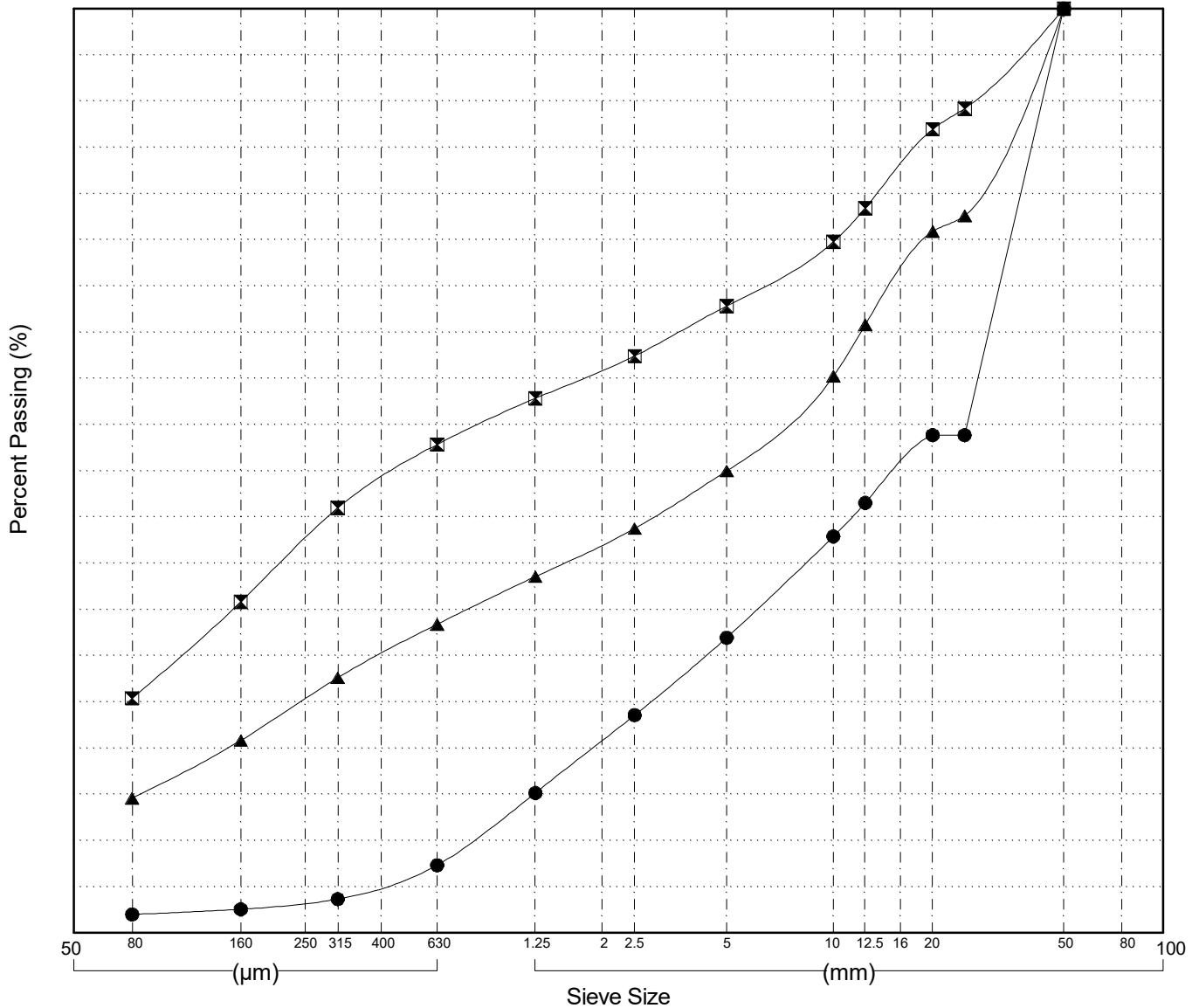
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5569
	km 1418.5 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6741442.4m E489471.4m	ELEVATION: 717.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 290	2015-646	0.0 to 1.5	POORLY GRADED GRAVEL with SAND(GP)	0.6	NP	NP	NP	0.8	34.4
☒ 291	2015-647	1.5 to 3.0	SILTY SAND with GRAVEL(SM)	3.4	NP	NP	NP		
▲ 292	2015-648	3.0 to 4.5	SILTY GRAVEL with SAND(GM)	2.1	NP	NP	NP		

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
																Gravel	Sand	Silt	Clay
● 290	2015-646	100.0	100.0	100.0	53.9	53.9	46.5	42.9	31.9	23.6	15.1	7.3	3.7	2.6	2.0	68.1	29.9	2.0	
☒ 291	2015-647	100.0	100.0	100.0	89.2	87.0	78.4	74.8	67.8	62.4	57.8	52.8	46.0	35.8	25.4	32.2	42.4	25.4	
▲ 292	2015-648	100.0	100.0	100.0	77.6	75.9	65.8	60.2	50.0	43.7	38.5	33.4	27.6	20.8	14.6	50.0	35.4	14.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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REVIEWED BY: R.Stilwell

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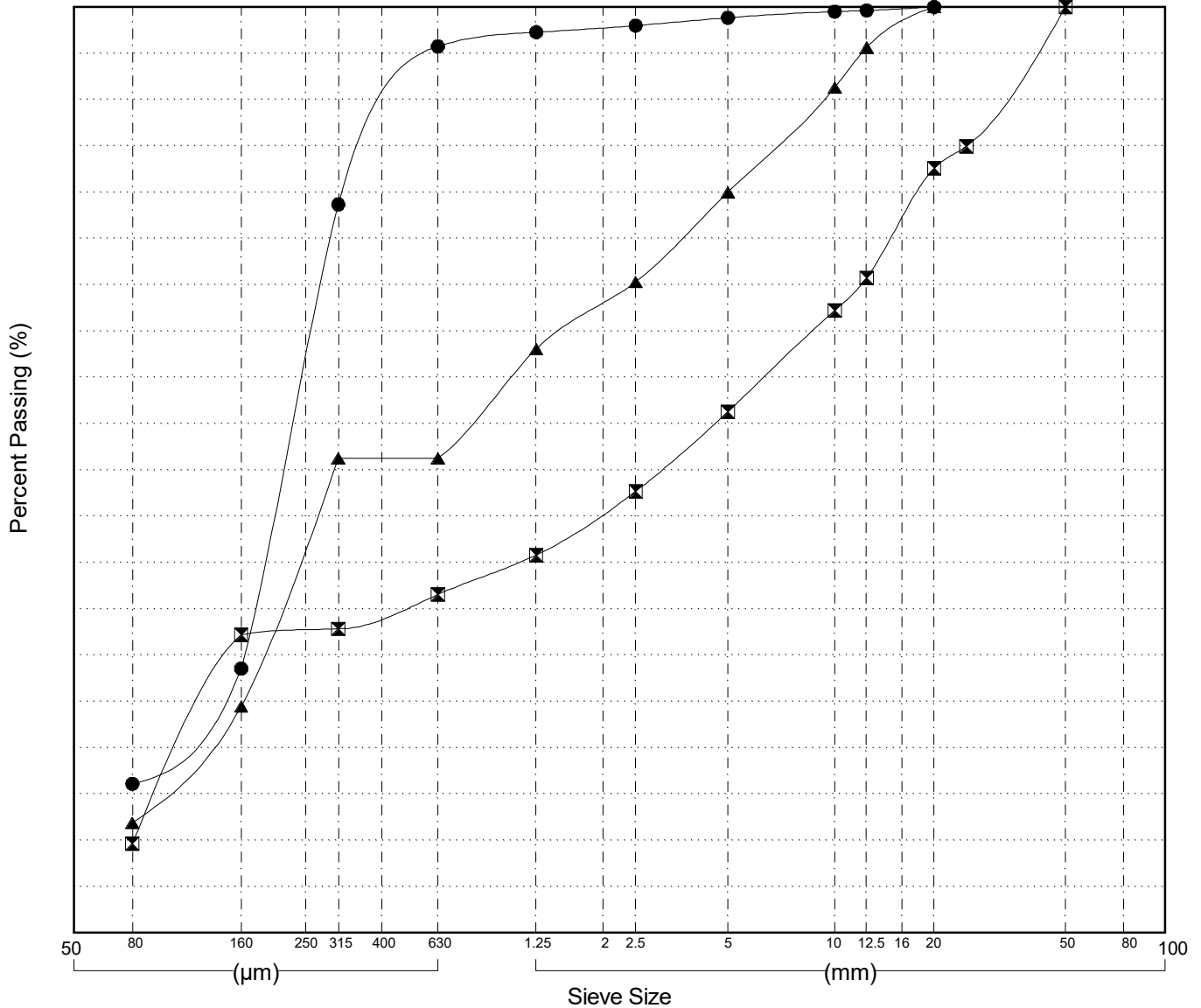
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5570
	km 1421.65 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6741655.9m E488954m	ELEVATION: 713.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 293	2015-649	0.0 to 2.5	SILTY SAND(SM)	3.3	NP	NP	NP		
☒ 294	2015-650	2.5 to 3.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	2.1	NP	NP	NP	0.0	80.7
▲ 295	2015-651	3.0 to 4.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	3.1	NP	NP	NP	0.5	15.6

Field#	Lab#	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown			
																Gravel	Sand	Silt	Clay
● 293	2015-649	100.0	100.0	100.0	100.0	100.0	99.6	99.5	98.8	98.0	97.3	95.7	78.7	28.5	16.1	1.2	82.7	16.1	
☒ 294	2015-650	100.0	100.0	100.0	84.9	82.6	70.7	67.2	56.3	47.7	40.8	36.5	32.8	32.2	9.6	43.7	46.6	9.6	
▲ 295	2015-651	100.0	100.0	100.0	100.0	100.0	95.6	91.3	80.0	70.3	63.0	51.3	51.3	24.5	11.9	20.0	68.1	11.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
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REVIEWED BY: R.Stilwell

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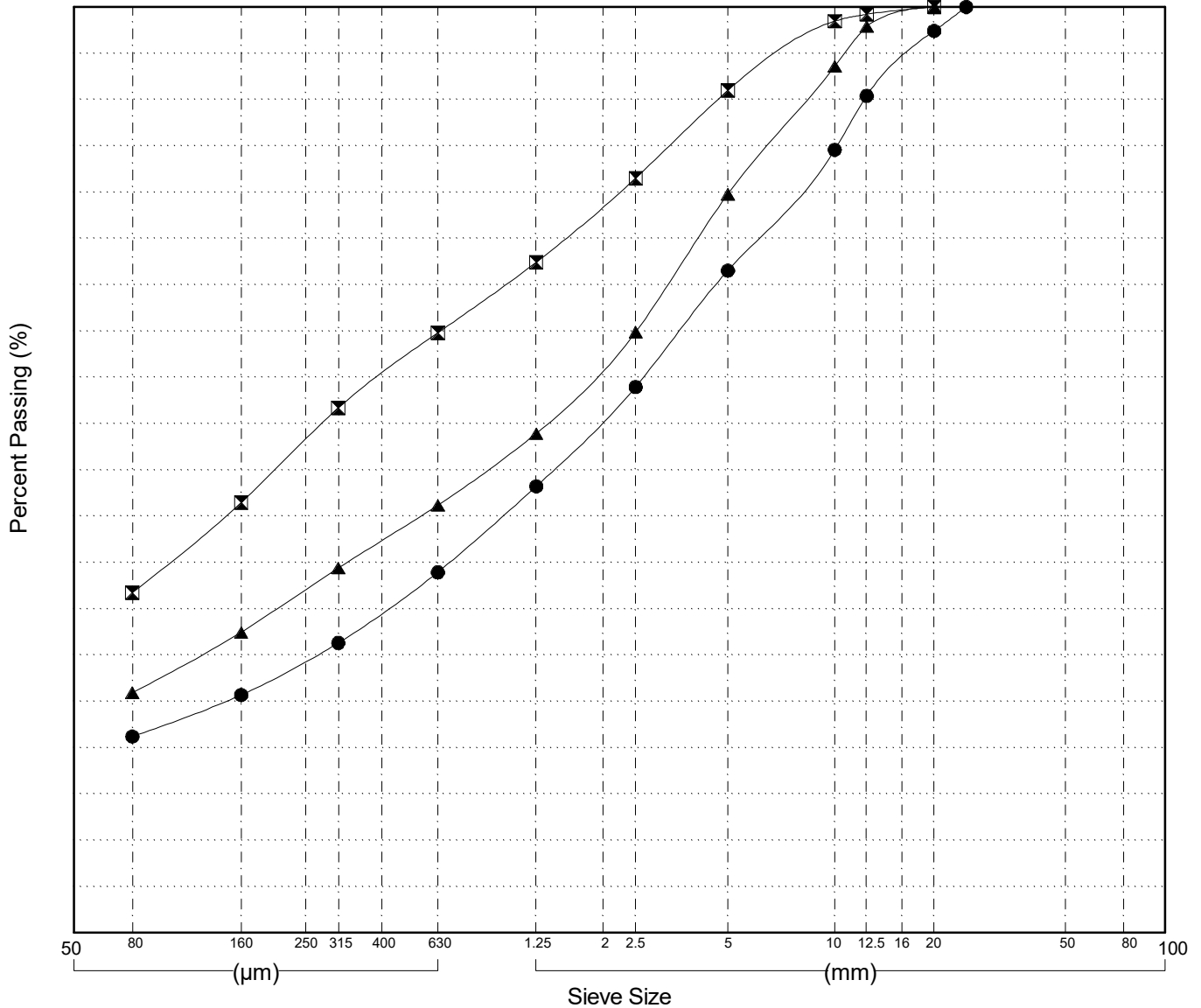
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5571
	km 1428.65 RHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6741655.9m E488954m	ELEVATION: 713.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 296	2015-652	0.0 to 1.5	SILTY SAND with GRAVEL(SM)	5.5	NP	NP	NP		
☒ 297	2015-653	1.5 to 3.0	SILTY SAND(SM)	9.0	NP	NP	NP		
▲ 298	2015-654	3.0 to 4.5	SILTY SAND with GRAVEL(SM)	7.0	NP	NP	NP		

Field#	Lab#	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 296	2015-652	100.0	100.0	100.0	100.0	97.4	90.4	84.6	71.5	59.0	48.2	38.9	31.3	25.7	21.2	28.5	50.3	21.2		
☒ 297	2015-653	100.0	100.0	100.0	100.0	100.0	99.2	98.5	91.0	81.5	72.4	64.8	56.7	46.5	36.7	9.0	54.2	36.7		
▲ 298	2015-654	100.0	100.0	100.0	100.0	100.0	97.9	93.6	79.8	64.9	53.9	46.2	39.4	32.5	25.9	20.2	53.8	25.9		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
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REVIEWED BY: R.Stilwell

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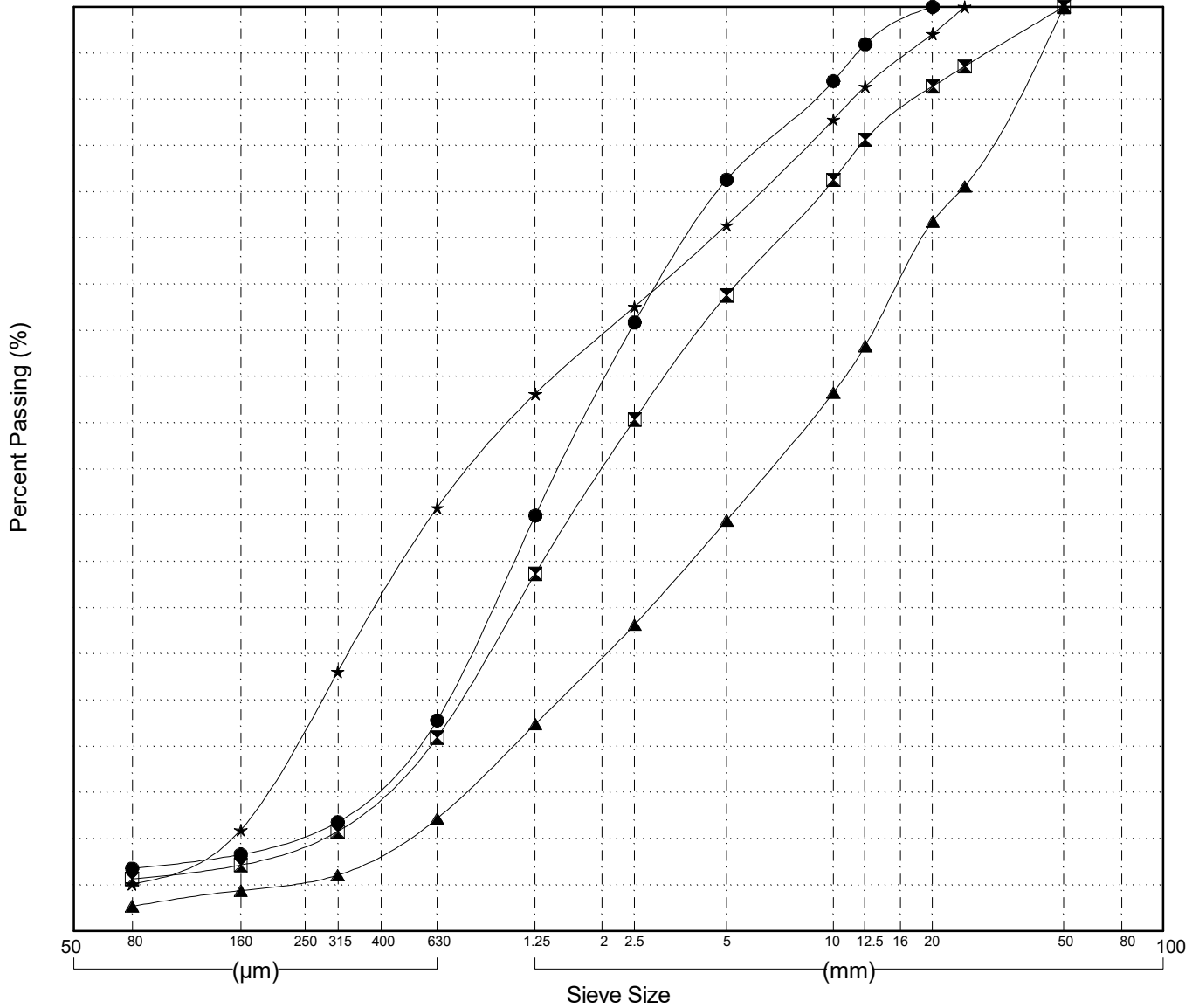
GRAIN SIZE ANALYSIS	Alaska Hwy Whitehorse Corridor Drilling	SOURCE/TP#: 882-5572
	km 1411.9 LHS	PROJECT NO: 552 202101 0908 0661-3
MARL M4CT	Coordinates: Z8V N6737898.7m E491432.8m	ELEVATION: 749.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 299	2015-655	0.0 to 1.5	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	2.7	NP	NP	NP	1.4	9.3
☒ 300	2015-656	1.5 to 3.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	1.5	NP	NP	NP	0.9	11.5
▲ 301	2015-657	3.0 to 4.5	POORLY GRADED GRAVEL with SAND(GP)	0.4	NP	NP	NP	0.8	21.9
★ 302	2015-658	4.5 to 6.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	2.9	NP	NP	NP	0.6	10.1

Field#	Lab#	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 299	2015-655	100.0	100.0	100.0	100.0	100.0	96.0	92.0	81.3	65.9	45.0	22.8	11.8	8.3	6.8	18.7	74.5	6.8	
☒ 300	2015-656	100.0	100.0	100.0	93.6	91.4	85.6	81.3	68.8	55.4	38.7	21.0	10.8	7.2	5.7	31.2	63.1	5.7	
▲ 301	2015-657	100.0	100.0	100.0	80.6	76.8	63.3	58.3	44.4	33.2	22.4	12.2	6.1	4.4	2.7	55.6	41.7	2.7	
★ 302	2015-658	100.0	100.0	100.0	97.1	91.4	87.8	76.4	67.6	58.1	45.8	28.1	11.0	5.1	23.6	71.3	5.1		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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REVIEWED BY: R.Stilwell

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