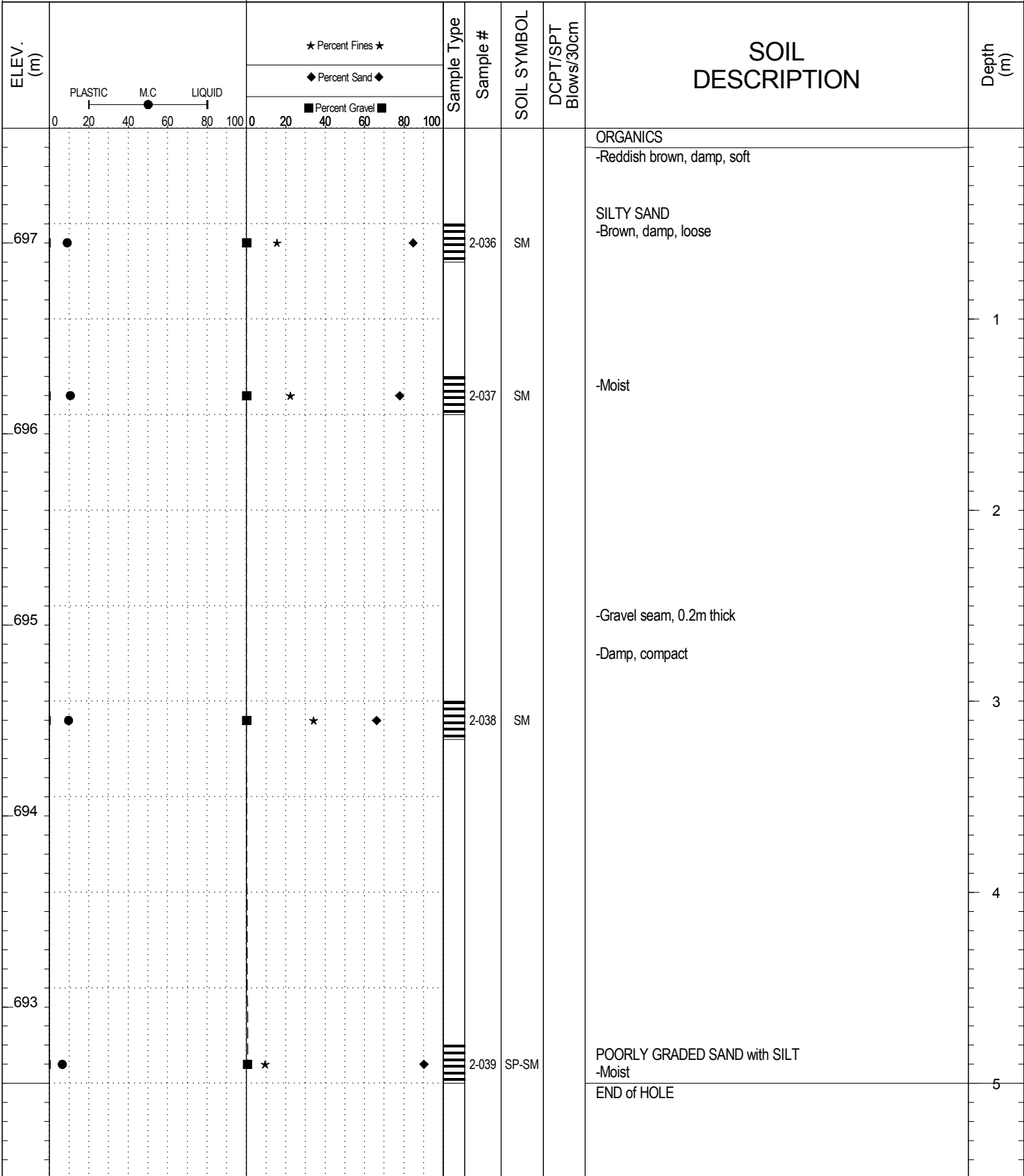


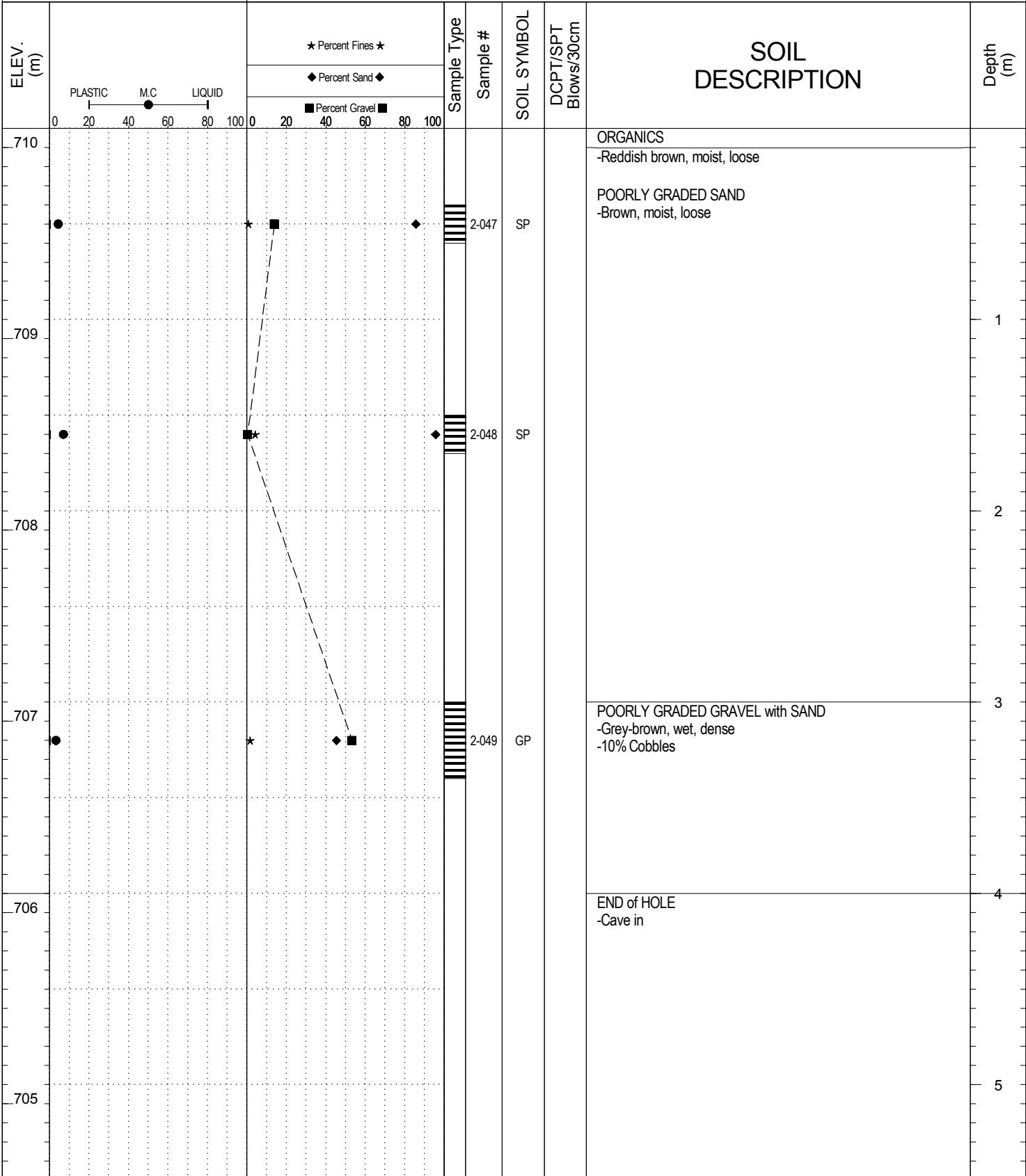
SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 820-4728		
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5		
Hitachi 200 LC		Coordinates: Z9 N6719302.5m E490869.4m		ELEVATION: 705.4m		
SAMPLE TYPE	RETURN	DCPT	AUGER	BULK	SPT	CORE
ELEV. (m) 705 704 703 702 701 700	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)
					2-040 GP-GM ORGANICS POORLY GRADED GRAVEL with SILT and SAND -Brown, damp, loose -10% Cobbles	
					2-041 GW-GM WELL-GRADED GRAVEL with SILT and SAND -Grey-brown, wet, compact -5% Cobbles -Loose	
					2-042 GP POORLY GRADED GRAVEL with SAND -Moist -Odd cobble	
					2-043 SW WELL-GRADED SAND with GRAVEL -Grey-brown, moist, loose -Odd cobble END of HOLE	
		Highways and Public Works Transportation Engineering Branch		LOGGED BY: R.Stilwell COMPILED BY: R.Stilwell REVIEWED BY: M. Idrees	Termination Depth: 4.2m Complete: 10/27/2013 1:15:00 PM Pit #: Unassigned	Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 820-4729					
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5					
Hitachi 200 LC		Coordinates: Z9 N6719322.2m E491020.5m		ELEVATION: 709.6m					
SAMPLE TYPE		RETURN	DCPT	AUGER	BULK	SPT	CORE		
ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■								
709	●	■	★	◆	2-044	SP-SM		ORGANICS -Reddish brown, damp, soft POORLY GRADED SAND with SILT -Brown, damp, loose	1
708									
707	●	■	★	◆	2-045	SP-SM		-Grey/brown, moist, compact	2
706									3
705	●	■	★	◆	2-046	SM		SILTY SAND -Damp	4
								END of HOLE	5
				LOGGED BY: R.Stilwell		Termination Depth: 5m			
				COMPILED BY: R.Stilwell		Complete: 10/27/2013 2:30:00 PM			
				REVIEWED BY: M. Idrees		Pit #: Unassigned Page 1 of 1			

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 820-4731					
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5					
Hitachi 200 LC		Coordinates: Z9 N6719537.6m E491341.1m		ELEVATION: 815m					
SAMPLE TYPE	RETURN	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								
814					2-050	SM		ORGANICS -Reddish brown, damp, firm SILTY SAND -Brown, damp, compact -Gravel seam, 0.1m -Fine sand seam, 0.4m -Odd cobble	1
813					2-051	SP		POORLY GRADED SAND with GRAVEL -Grey-brown, loose -Compact	2
812					2-052	SP		-Odd cobble	3
811					2-053	SP		POORLY GRADED SAND - Dark grey-brown, moist	4
810								END of HOLE	5
				LOGGED BY: R.Stilwell COMPILED BY: R.Stilwell REVIEWED BY: M. Idrees		Termination Depth: 4.8m Complete: 10/28/2013 10:05:00 AM Pit #: Unassigned		Page 1 of 1	

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 820-4732								
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5								
Hitachi 200 LC		Coordinates: Z9 N6719380.5m E491104.4m		ELEVATION: 821.3m								
SAMPLE TYPE	RETURN	DCPT	AUGER	BULK	SPT	CORE						
ELEV. (m)	PLASTIC	M.C	LIQUID	★ Percent Fines ★	◆ Percent Sand ◆	■ Percent Gravel ■	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
821	0	40	80								ORGANICS -Reddish brown, damp, loose POORLY GRADED SAND -Brown, moist, loose	1
820								2-054	SP			
819								2-055	SP-SM		POORLY GRADED SAND with SILT -Grey-brown	2
818								2-056	SP-SM		-Compact	3
817											-Loose	4
816											END of HOLE -Sloughing	5



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

COMPILED BY: R.Stilwell

REVIEWED BY: M. Idrees

Termination Depth: 4m

Complete: 10/28/2013 10:55:00 AM

Pit #: Unassigned

Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 820-4733					
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5					
Hitachi 200 LC		Coordinates: Z9 N6719509.8m E491075.5m		ELEVATION: 862.5m					
SAMPLE TYPE		RETURN	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)
	862								
861								POORLY GRADED SAND -Brown, moist, loose	
860								-Grey-brown	2
859								SILT -Light brown, damp, firm	3
858									4
857								END of HOLE	5



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell	Termination Depth: 5m
COMPILED BY: R.Stilwell	Complete: 10/28/2013 3:10:00 PM
REVIEWED BY: M. Idrees	Pit #: Unassigned Page 1 of 1

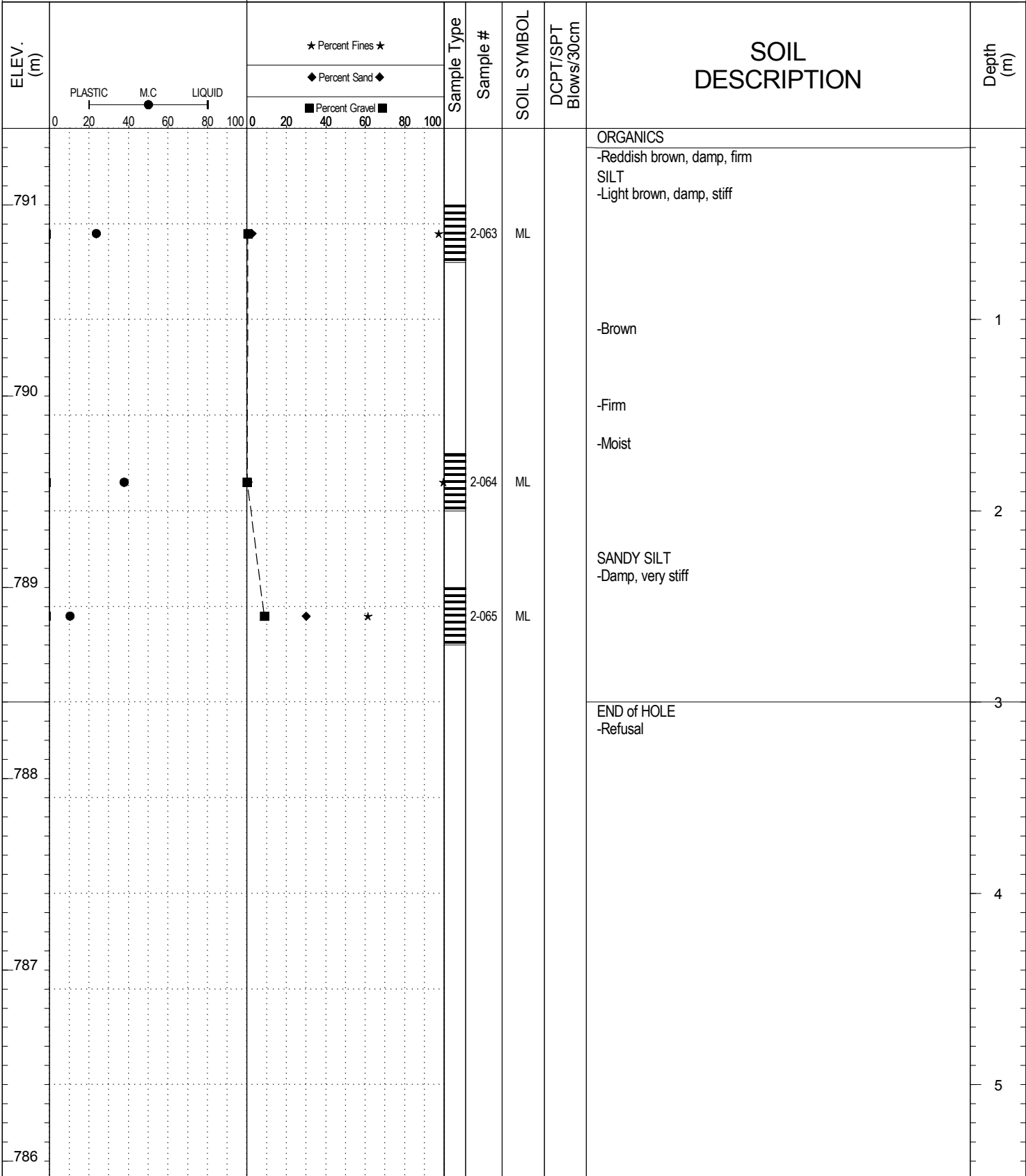
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J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5					
Hitachi 200 LC		Coordinates: Z9 N6719711.6m E491099.2m		ELEVATION: 874.3m					
SAMPLE TYPE	RETURN	DCPT	AUGER	BULK	SPT	CORE			
ELEV. (m)	PLASTIC M.C 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)
874				2-060	GP		ORGANICS -Reddish brown, moist, soft -Odd cobble	1	
873							POORLY GRADED GRAVEL with SAND -Brown, moist, compact		
872				2-061	SP		POORLY GRADED SAND with GRAVEL -Dark brown, moist, compact -Odd cobble	2	
871				2-062	SP		POORLY GRADED SAND -Dark grey brown, damp, loose	3	
870							END of HOLE -Cave in	4	
869								5	
				LOGGED BY: R.Stilwell		Termination Depth: 3.8m			
				COMPILED BY: R.Stilwell		Complete: 10/28/2013 4:45:00 PM			
				REVIEWED BY: M. Idrees		Pit #: Unassigned Page 1 of 1			

SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4735

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719847.4m E490601.4m ELEVATION: 791.4m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: R.Stilwell

COMPILED BY: R.Stilwell

REVIEWED BY: M. Idrees

Termination Depth: 3m

Complete: 10/29/2013 9:50:00 AM

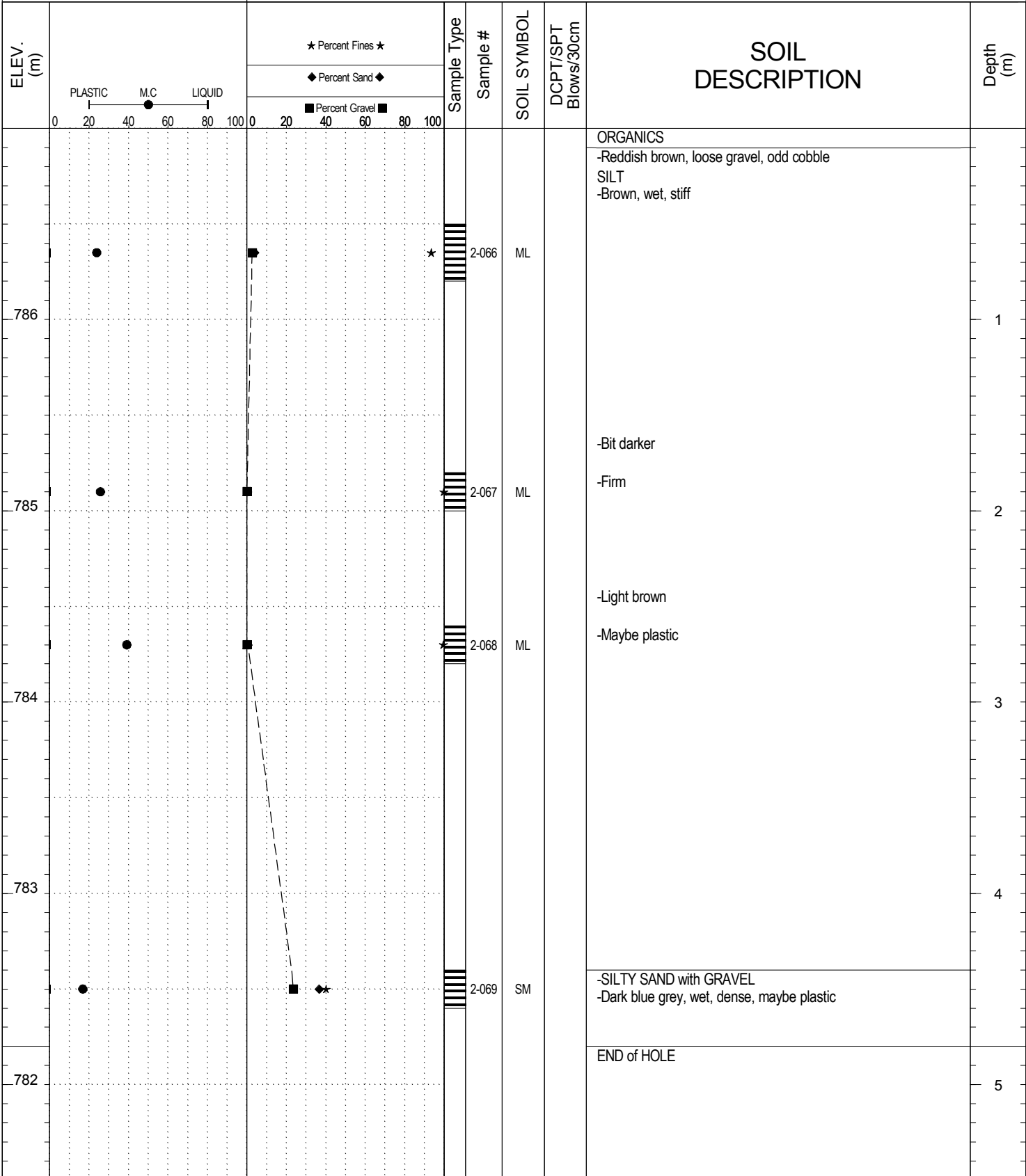
Pit #: Unassigned

SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4736

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719900m E490802m ELEVATION: 787m

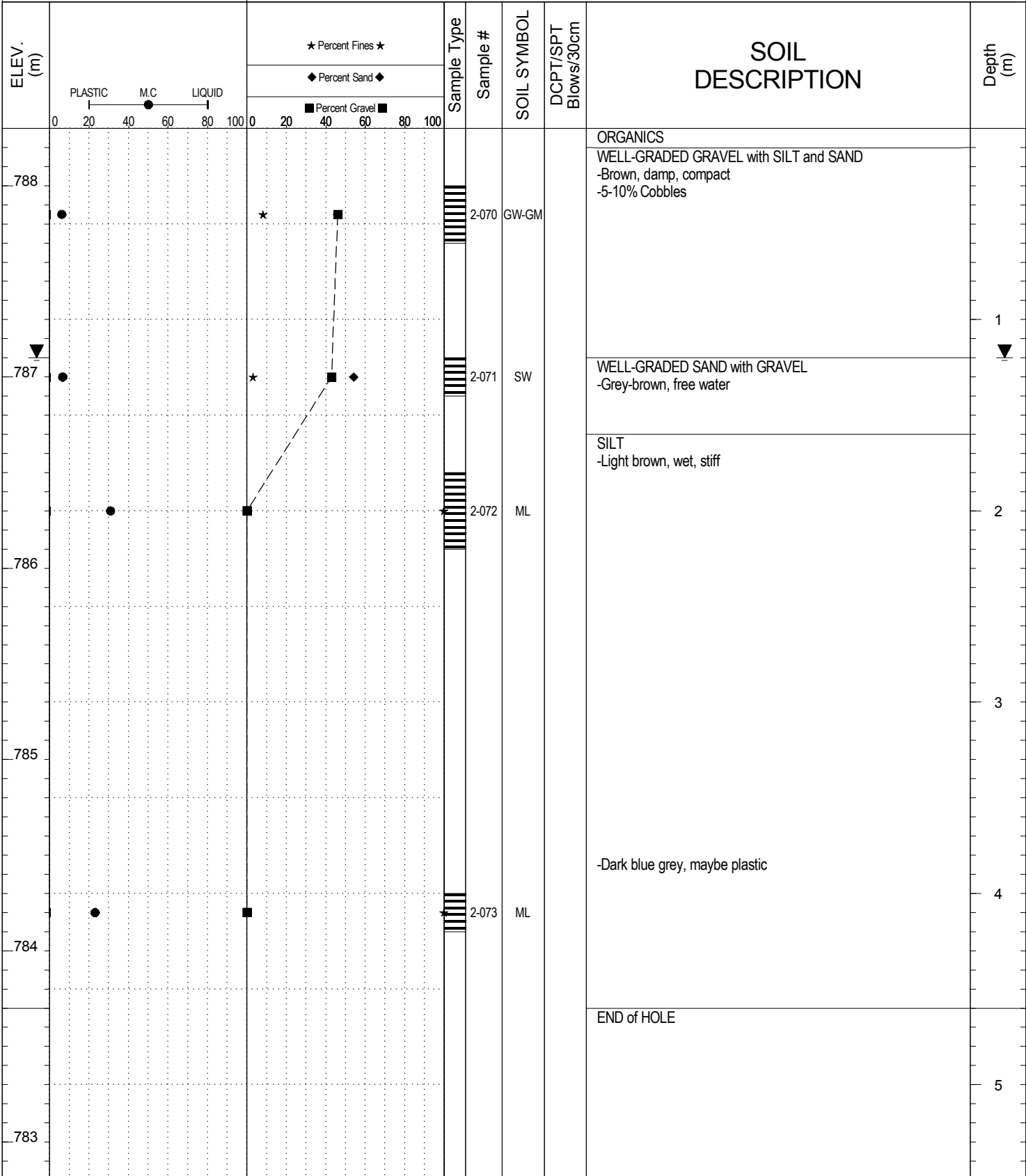
SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: R.Stilwell	Termination Depth: 4.8m
COMPILED BY: R.Stilwell	Complete: 10/29/2013 10:55:00 AM
REVIEWED BY: M. Idrees	Pit #: Unassigned Page 1 of 1

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 820-4738					
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5					
Hitachi 200 LC		Coordinates: Z9 N6719729.5m E490795.1m		ELEVATION: 788.6m					
SAMPLE TYPE	RETURN	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								
788					2-074	GW		ORGANICS -Reddish brown, loose -5% Cobbles WELL-GRADED GRAVEL with SAND -Brown, moist, loose -5% Cobbles	1
787								-Boulder, 0.3m	
786					2-075	SW		WELL-GRADED SAND with GRAVEL -Brown, moist, loose	2
785								SILT -Light brown, damp, stiff	
784					2-076	ML			3
									4
					2-077	SM		SILTY SAND with GRAVEL -Dark brown, moist, very dense	
								END of HOLE	5
				LOGGED BY: R.Stilwell		Termination Depth: 4.8m			
				COMPILED BY: R.Stilwell		Complete: 10/29/2013 1:20:00 PM			
				REVIEWED BY: M. Idrees		Pit #: Unassigned			

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 820-4739						
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5						
Hitachi 200 LC		Coordinates: Z9 N6719575.5m E490796.1m		ELEVATION: 785.3m						
SAMPLE TYPE		RETURN	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		0 20 40 60 80 100							
785			★		2-079	SP		ORGANICS -Reddish brown, compact POORLY GRADED SAND with GRAVEL -Brown, moist, compact	1	
784			★		2-080	SW		-Odd boulder < 0.5m WELL GRADED SAND with GRAVEL -loose	2	
783			★		2-081	SP-SM		-Silt seam, 0.1m thick POORLY GRADED SAND with SILT -Brown, wet, loose	3	
782										
781			★		2-082	ML		SILT -Dark blue grey, saturated, firm	4	
780								END of HOLE	5	

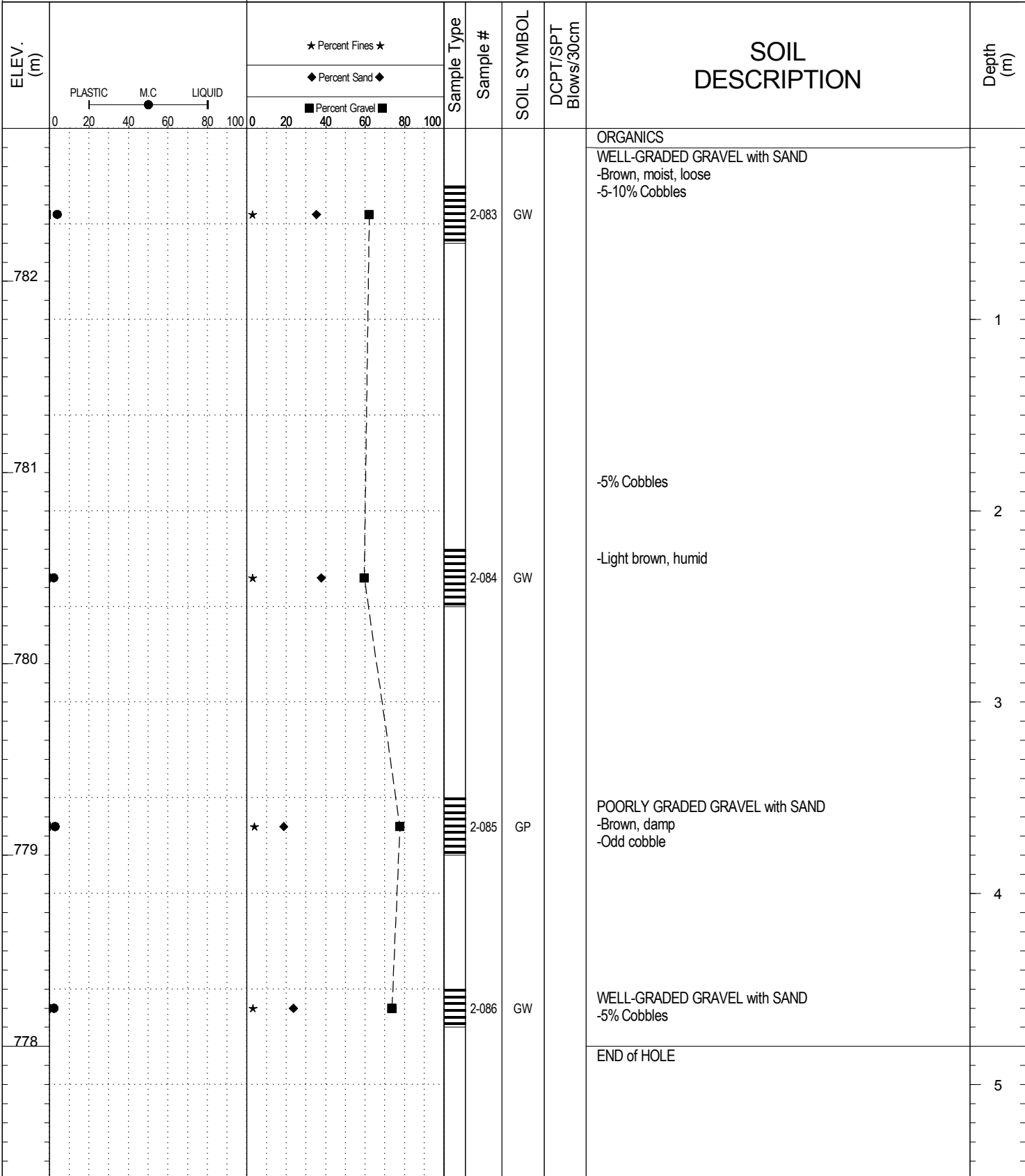


SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4740

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719424.2m E490812.2m ELEVATION: 782.8m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE

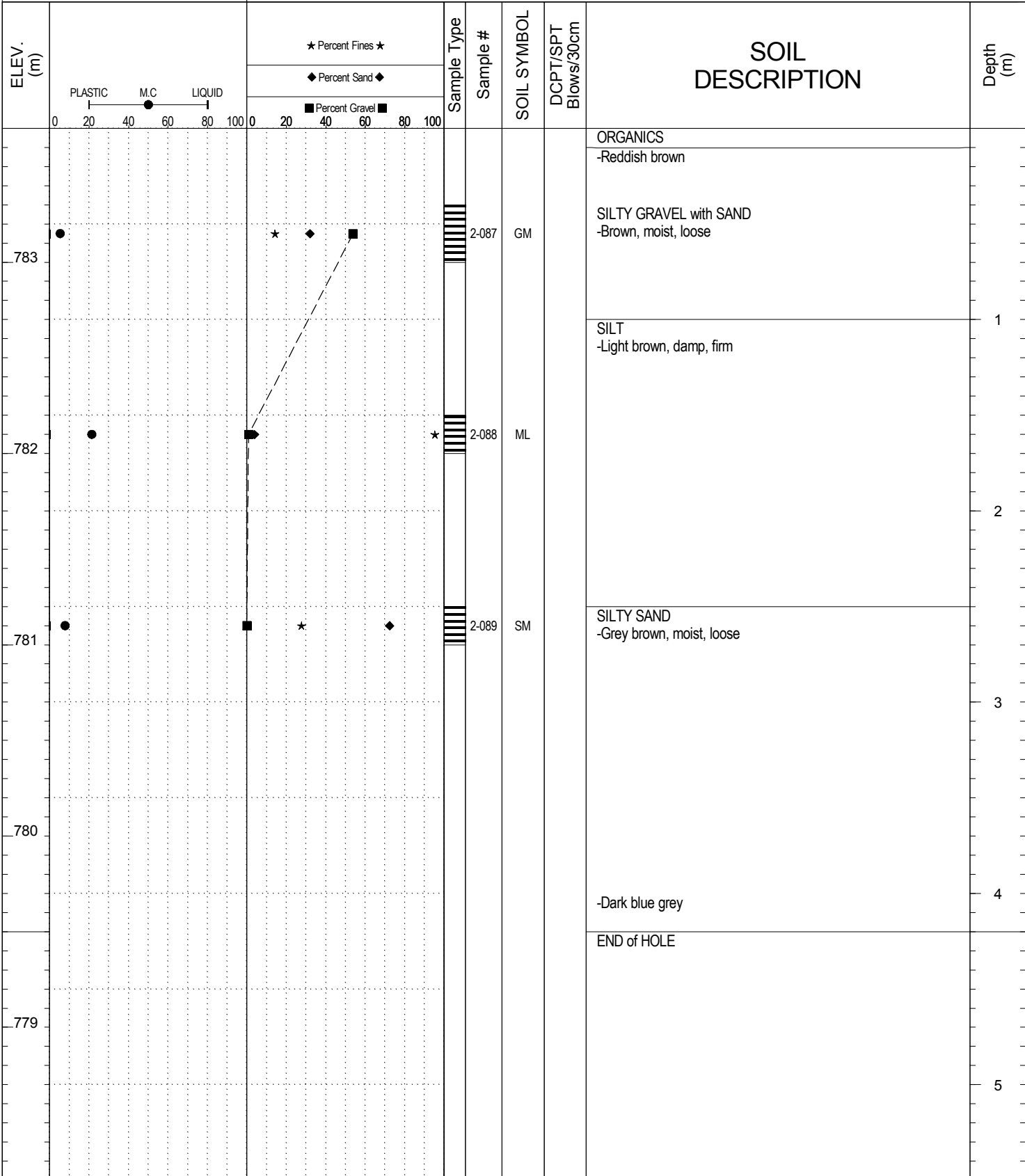


SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4741

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719398.8m E490929.6m ELEVATION: 783.7m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

Termination Depth: 4.2m

COMPILED BY: R.Stilwell

Complete: 10/29/2013 4:25:00 PM

REVIEWED BY: M. Idrees

Pit #: Unassigned

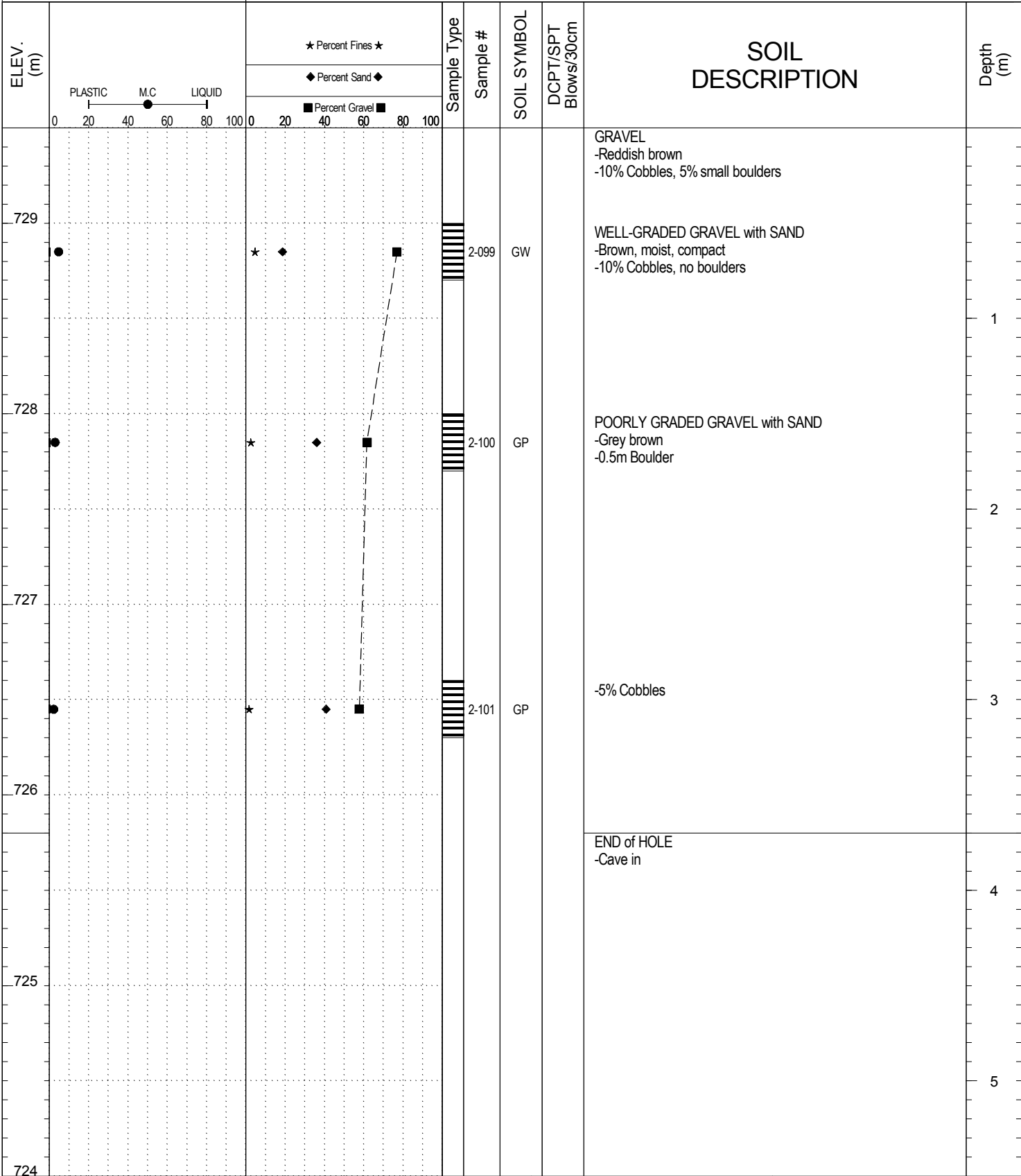
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J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5				
Hitachi 200 LC		Coordinates: Z9 N6719971.7m E491372.3m		ELEVATION: 723.4m				
SAMPLE TYPE	RETURN	DCPT	AUGER	BULK	SPT	CORE		
ELEV. (m)	★ Percent Fines ★ ◆ 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							
723							SAND with SILT -Reddish brown	
722				2-092	GW		WELL-GRADED GRAVEL with SAND -Brown, damp, compact -10% Cobbles	1
							-Grey brown	2
721				2-093	SP-SM		POORLY GRADED SAND with SILT and GRAVEL -Grey brown, damp, compact -5% Cobbles	3
720				2-094	SP		POORLY GRADED SAND with GRAVEL	
							END of HOLE -Sloughing	4
719								
718								5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 820-4744				
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5				
Hitachi 200 LC		Coordinates: Z9 N6720069.8m E491426.8m		ELEVATION: 726.7m				
SAMPLE TYPE	RETURN	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							
726				2-095	GW-GM		WELL-GRADED GRAVEL with SILT and SAND -Brown, humid, compact -30-50% Cobbles	1
725				2-096	GW		WELL-GRADED GRAVEL with SAND -20-25% Cobbles, odd boulder between 0.3 and 0.4m diameter	2
724				2-097	SW		WELL-GRADED SAND with GRAVEL -Brown, humid, compact -20-25% cobbles, 10% Boulders	3
723				2-098	SW		-Grey brown -5% Cobbles, no boulders	4
722							END of HOLE -Sloughing	5



SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE

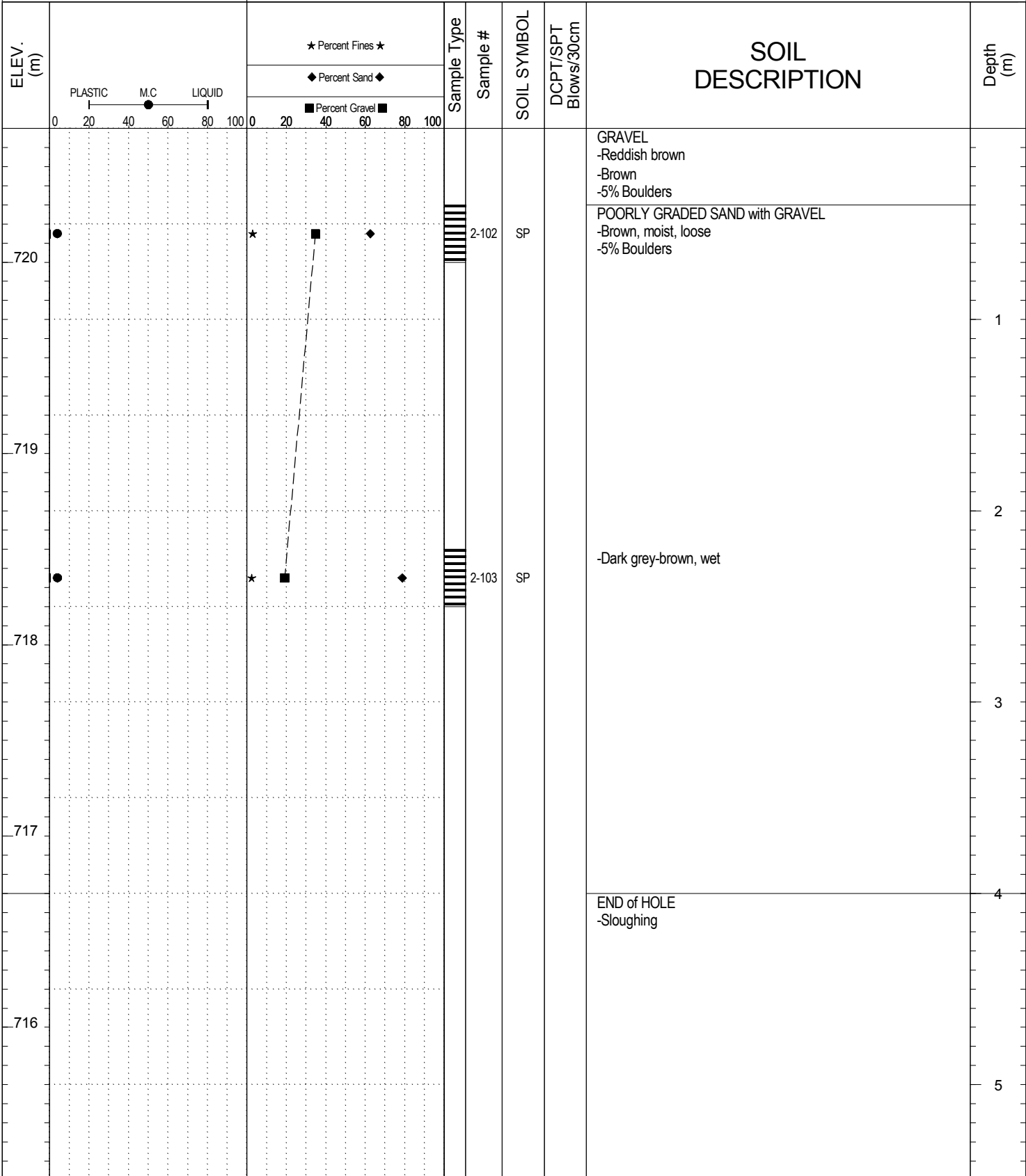


SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4746

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6720148m E491377.6m ELEVATION: 720.7m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

Termination Depth: 4m

COMPILED BY: R.Stilwell

Complete: 10/30/2013 3:35:00 PM

REVIEWED BY: M. Idrees

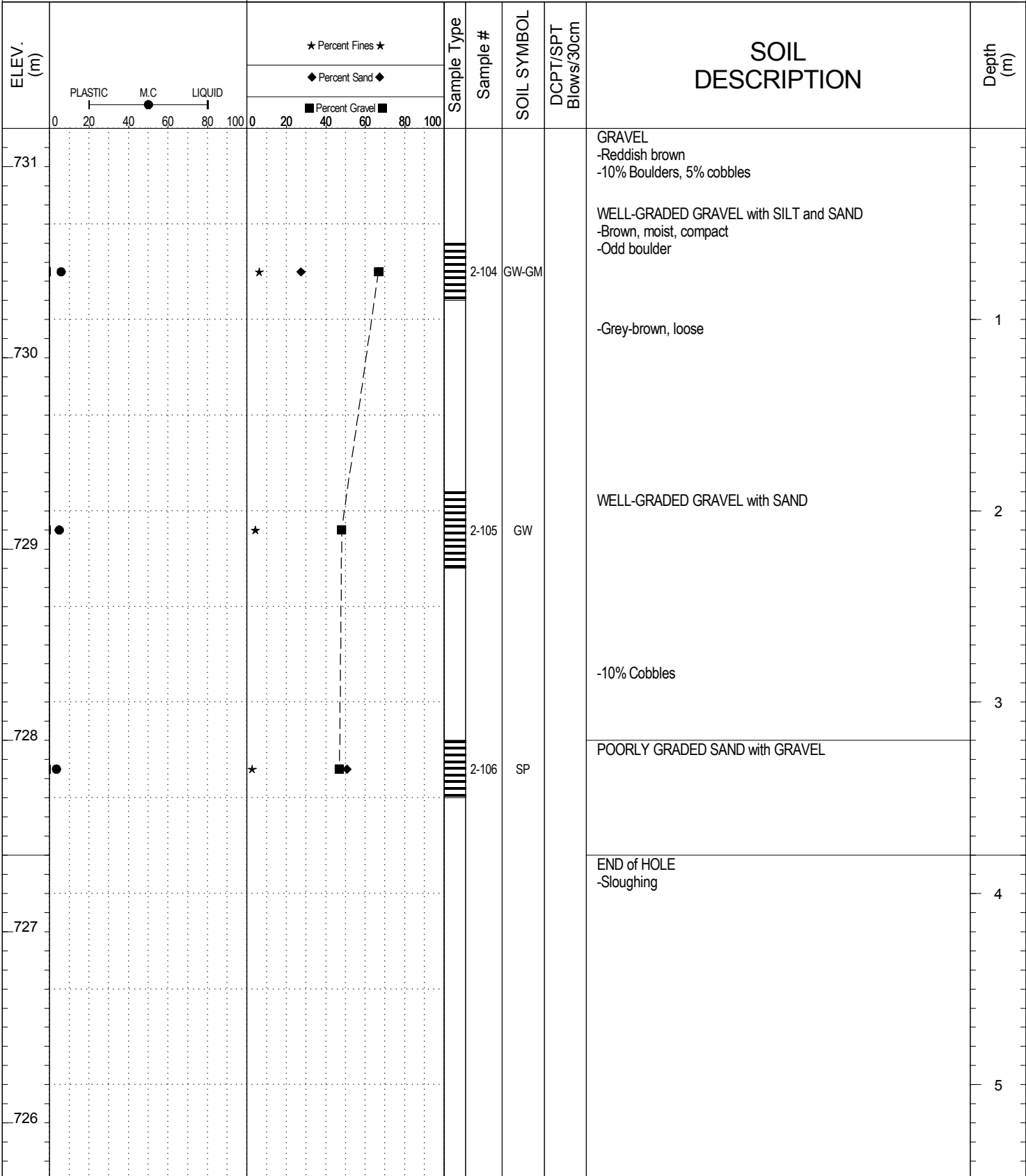
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SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4747

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6720116.6m E491300.7m ELEVATION: 731.2m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

Termination Depth: 3.8m

COMPILED BY: R.Stilwell

Complete: 10/30/2013 4:15:00 PM

REVIEWED BY: M. Idrees

Pit #: Unassigned

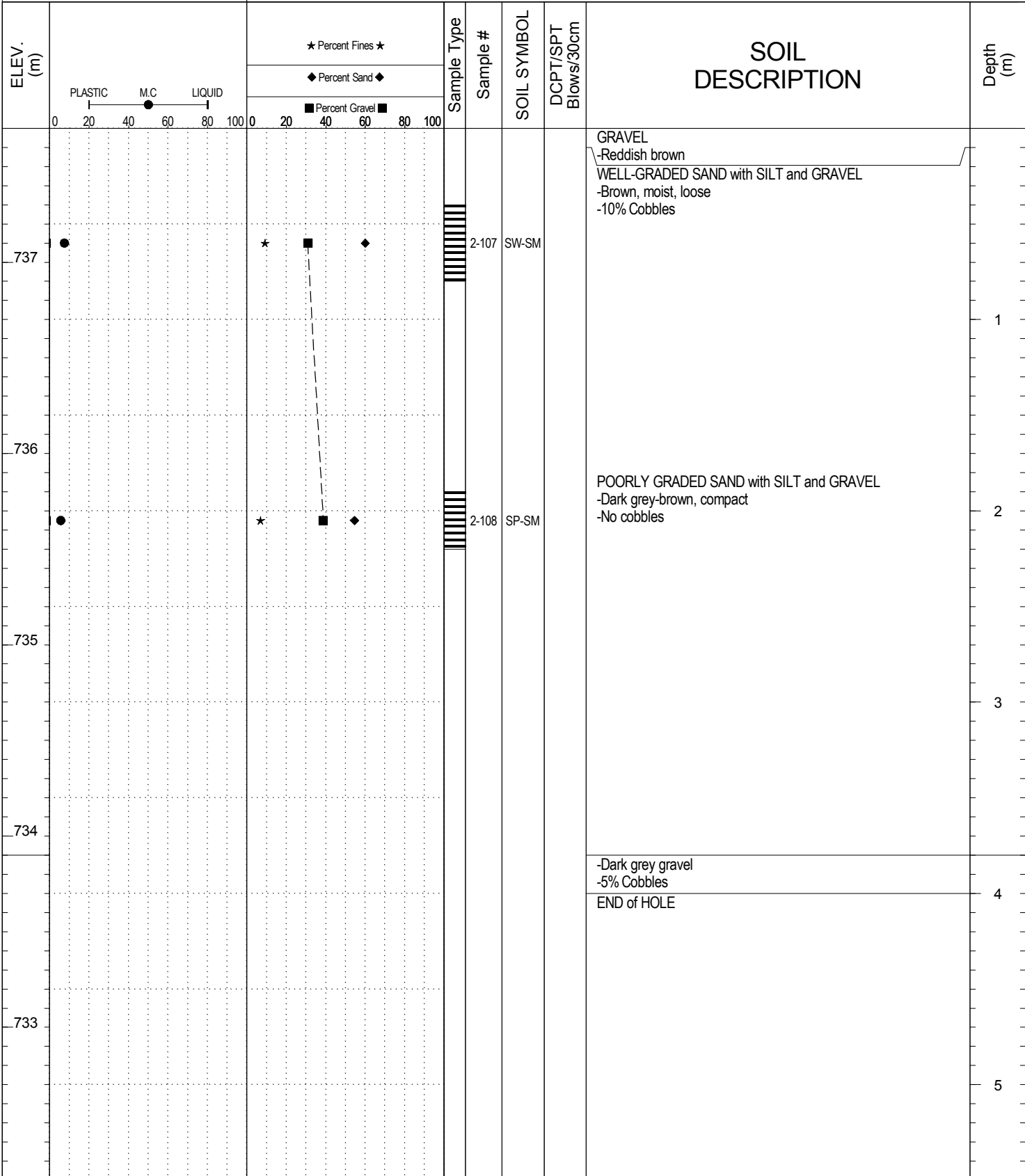
Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4748

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6720052.6m E491298.1m ELEVATION: 737.7m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

Termination Depth: 3.8m

COMPILED BY: R.Stilwell

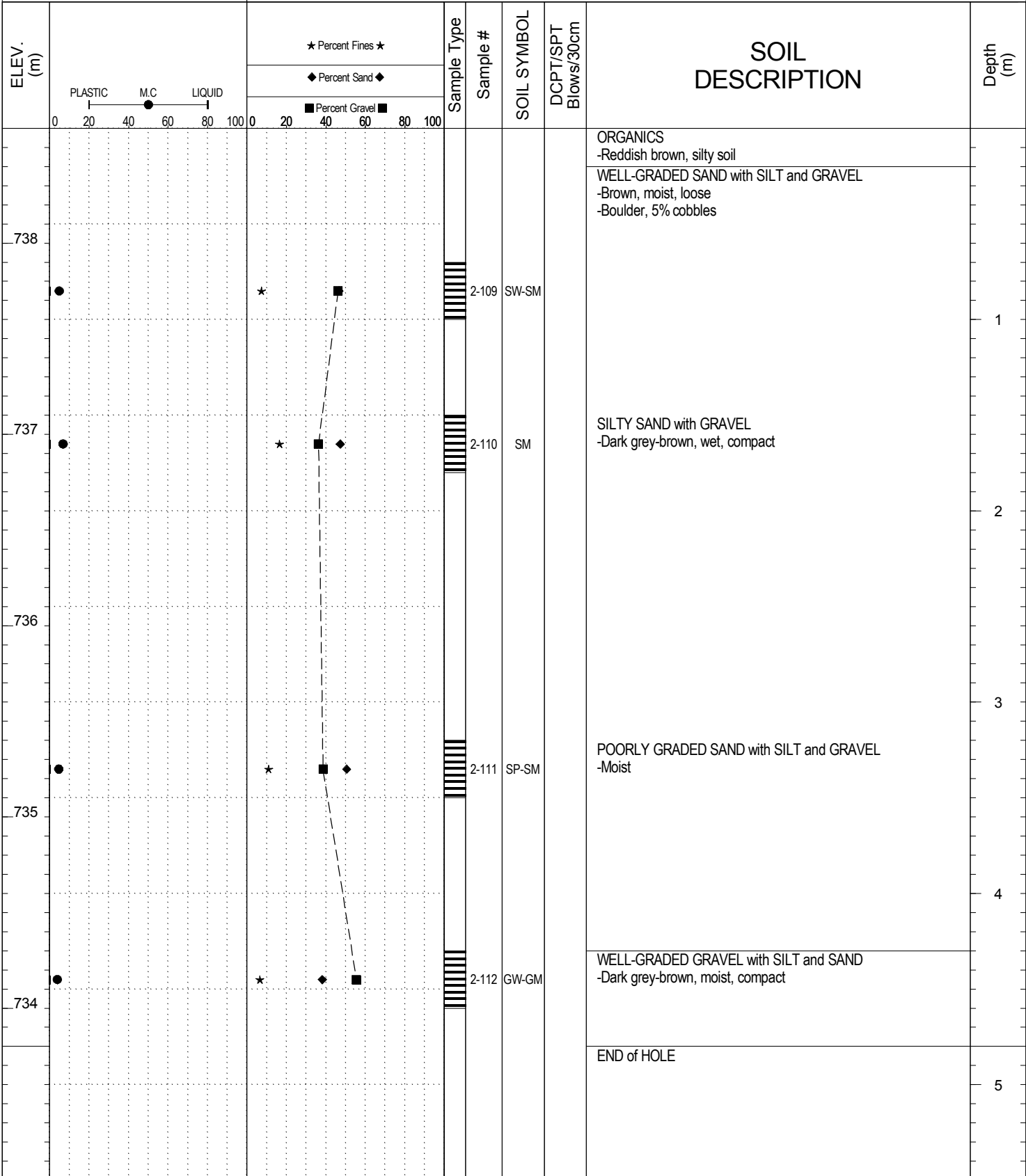
Complete: 10/30/2013 5:00:00 PM

REVIEWED BY: M. Idrees

Pit #: Unassigned

Page 1 of 1

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE

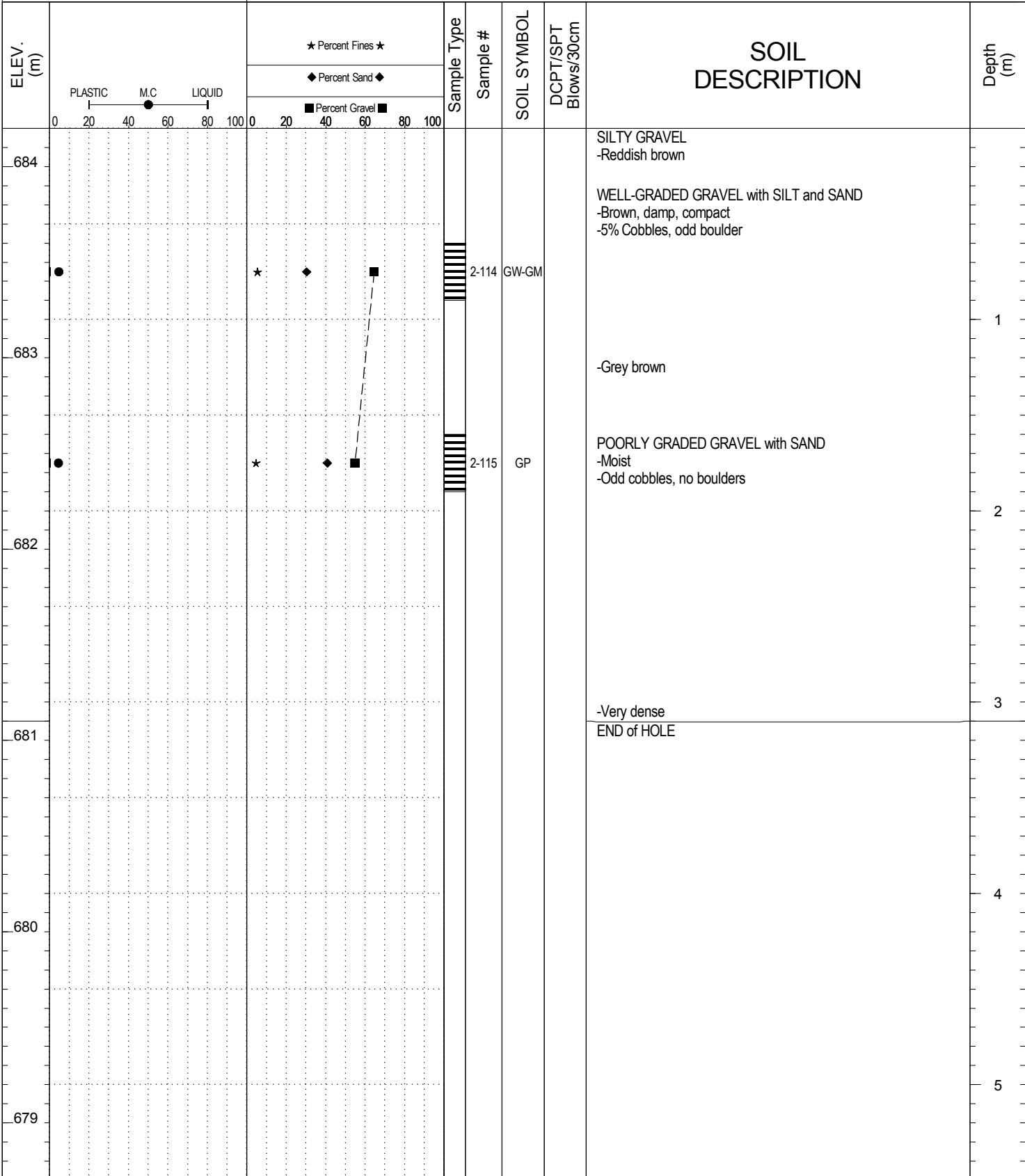


SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4750

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719984.9m E491290.8m ELEVATION: 684.2m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE

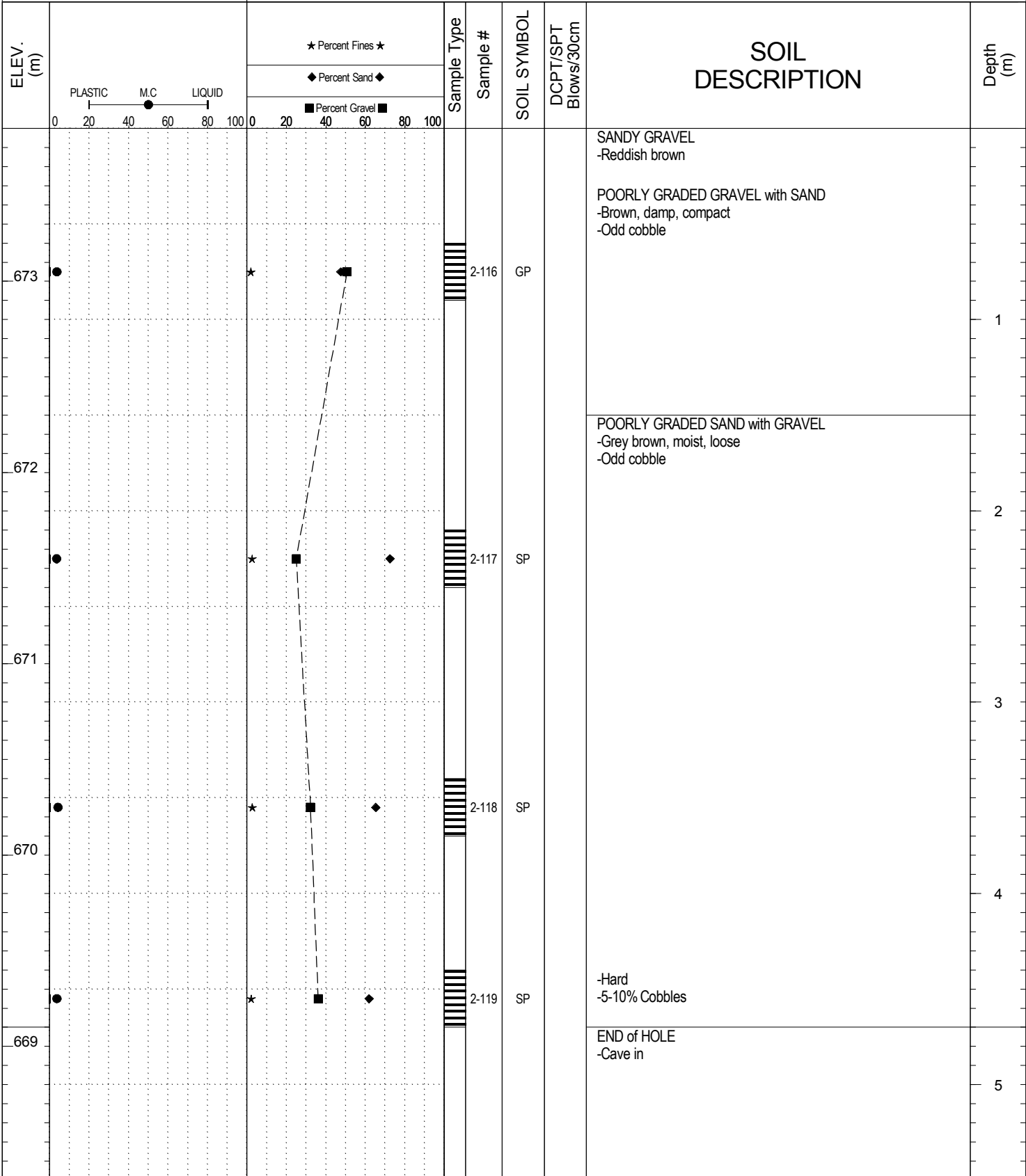


SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 820-4751

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6720266.3m E491424m ELEVATION: 673.8m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: R.Stilwell

COMPILED BY: R.Stilwell

REVIEWED BY: M. Idrees

Termination Depth: 4.7m

Complete: 10/31/2013 10:40:00 AM

Pit #: Unassigned

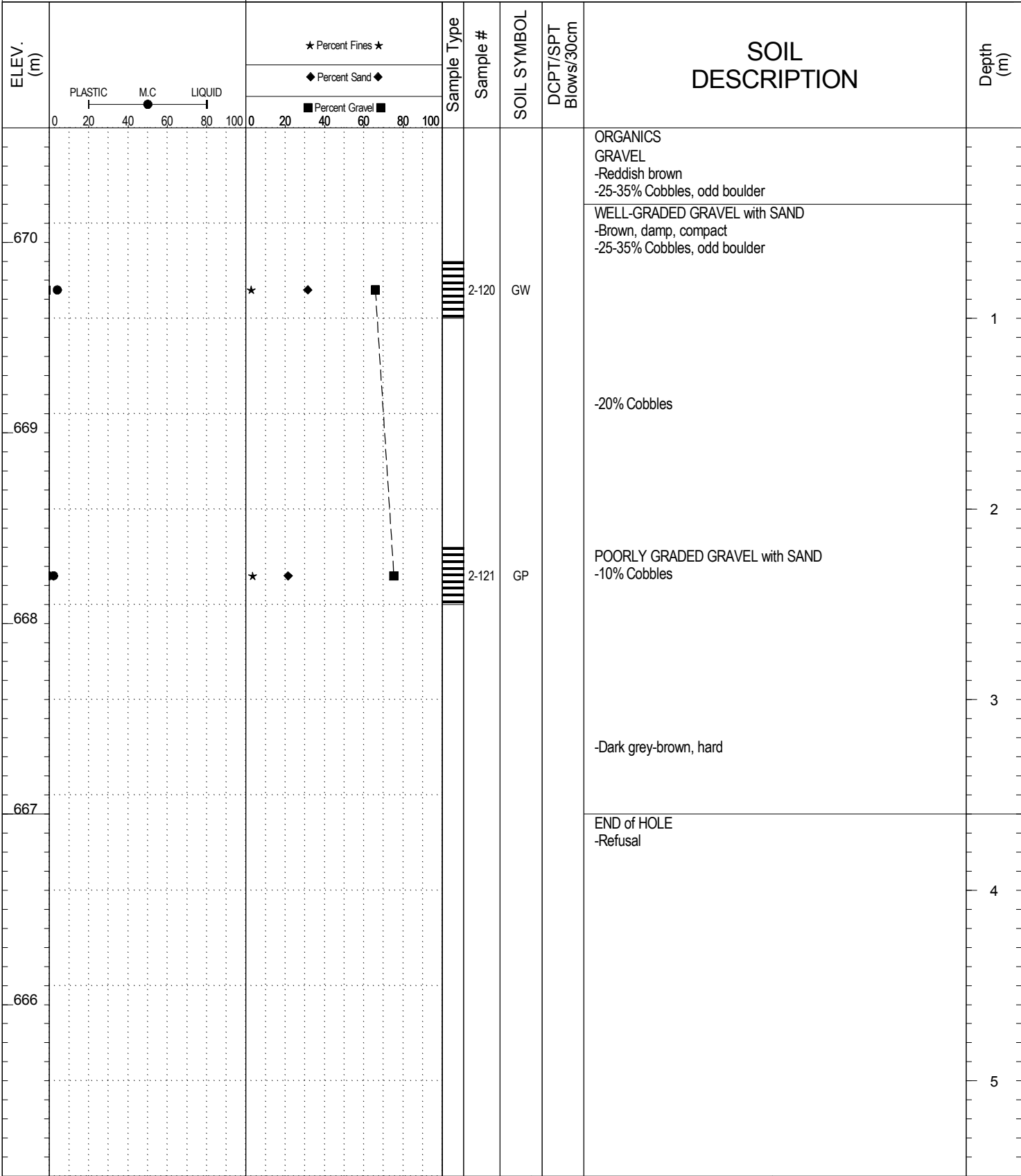
Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 821-4752

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6720322.7m E491352.9m ELEVATION: 670.6m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE

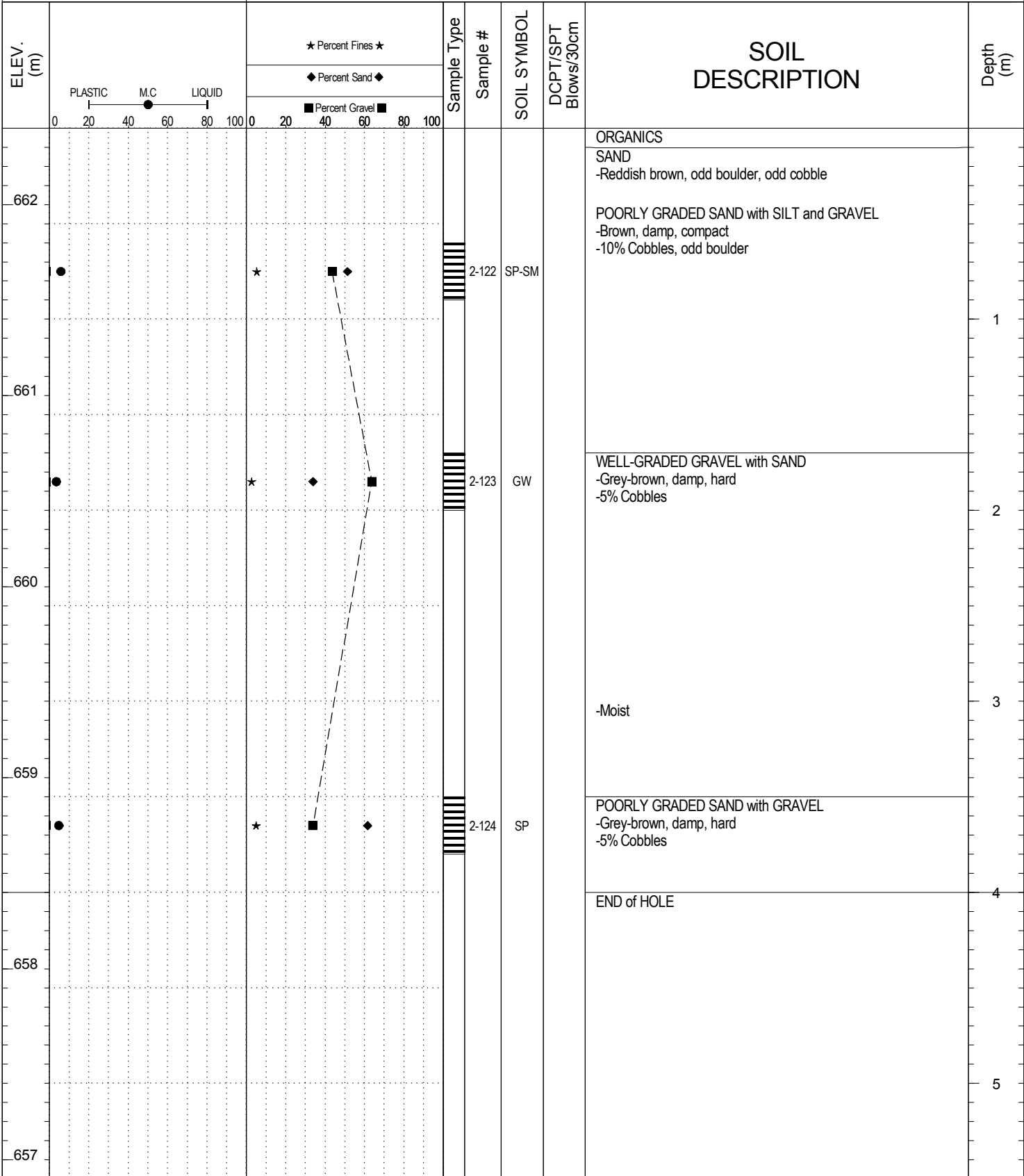


SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 821-4753

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6720376.2m E491312.4m ELEVATION: 662.4m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: R.Stilwell

Termination Depth: 4m

COMPILED BY: R.Stilwell

Complete: 10/31/2013 12:45:00 PM

REVIEWED BY: M. Idrees

Pit #: Unassigned

Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 821-4754				
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5				
Hitachi 200 LC		Coordinates: Z9 N6720315.4m E491269.7m		ELEVATION: 663.9m				
SAMPLE TYPE	RETURN	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							
663				2-125	SP		ORGANICS SAND -Reddish brown to brown -20-30% Boulders, 0.3m diameter POORLY GRADED SAND -Dark grey-brown, damp, loose -Odd cobble	1
662				2-126	SP		POORLY GRADED SAND with GRAVEL -10% Cobbles	2
661				2-127	ML		SILT -Light brown, moist, firm	
660							END of HOLE	3
659								4
								5
				LOGGED BY: R.Stilwell		Termination Depth: 3m		
				COMPILED BY: R.Stilwell		Complete: 10/31/2013 1:30:00 PM		
				REVIEWED BY: M. Idrees		Pit #: Unassigned Page 1 of 1		

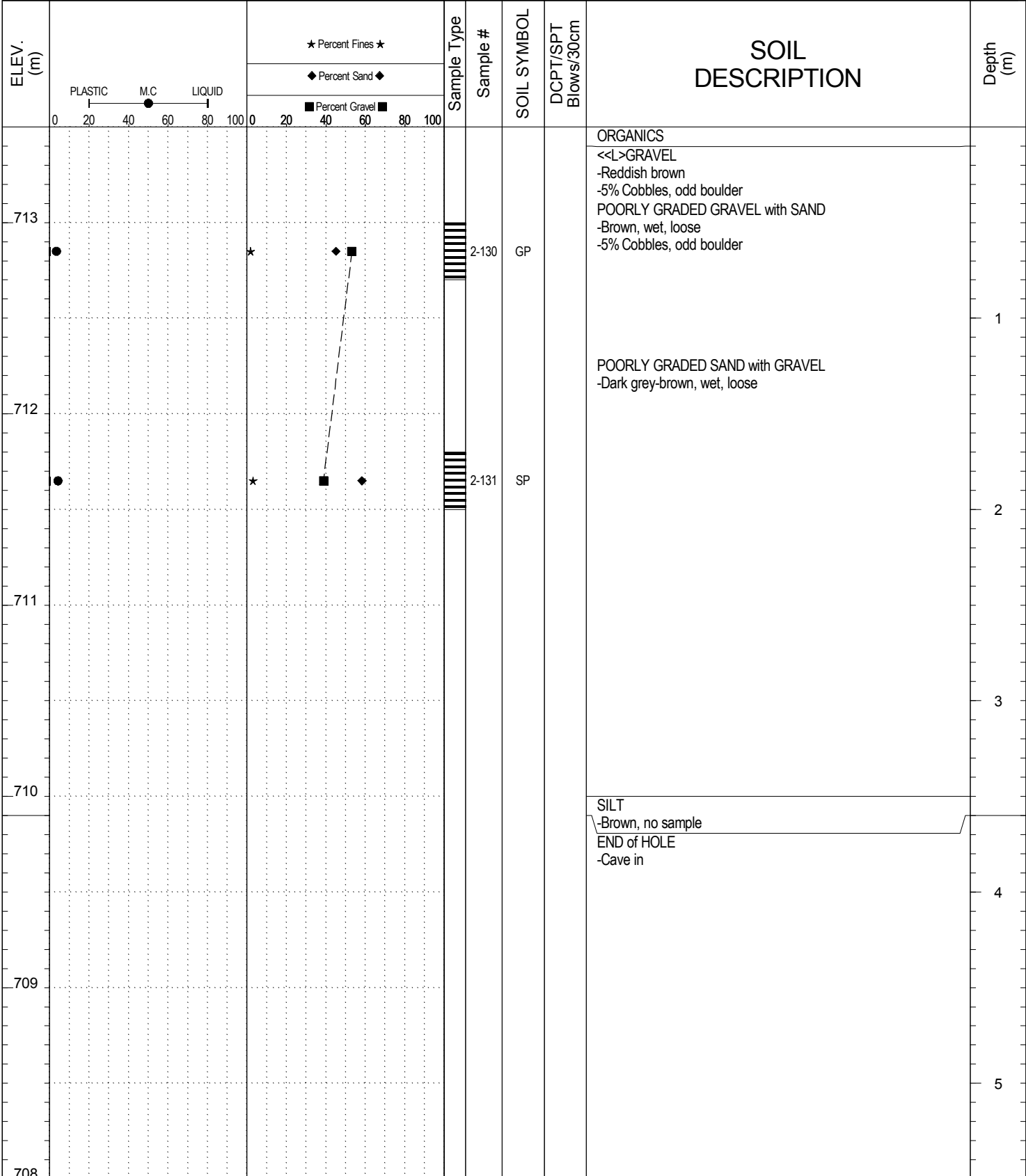
SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 821-4755						
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5						
Hitachi 200 LC		Coordinates: Z9 N6720228.4m E491288.5m		ELEVATION: 660m						
SAMPLE TYPE		RETURN	DCPT	AUGER	BULK	SPT	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)
	659									
658					2-129	ML	SILT -Light brown, wet, firm -Stiff	2		
657							END of HOLE	3		
656								4		
655								5		
		LOGGED BY: R.Stilwell				Termination Depth: 2.5m				
		COMPILED BY: R.Stilwell				Complete: 10/31/2013 2:15:00 PM				
		REVIEWED BY: M. Idrees				Pit #: Unassigned Page 1 of 1				

SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 821-4756

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6720172m E491293.3m ELEVATION: 713.5m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

COMPILED BY: R.Stilwell

REVIEWED BY: M. Idrees

Termination Depth: 3.6m

Complete: 10/31/2013 2:55:00 PM

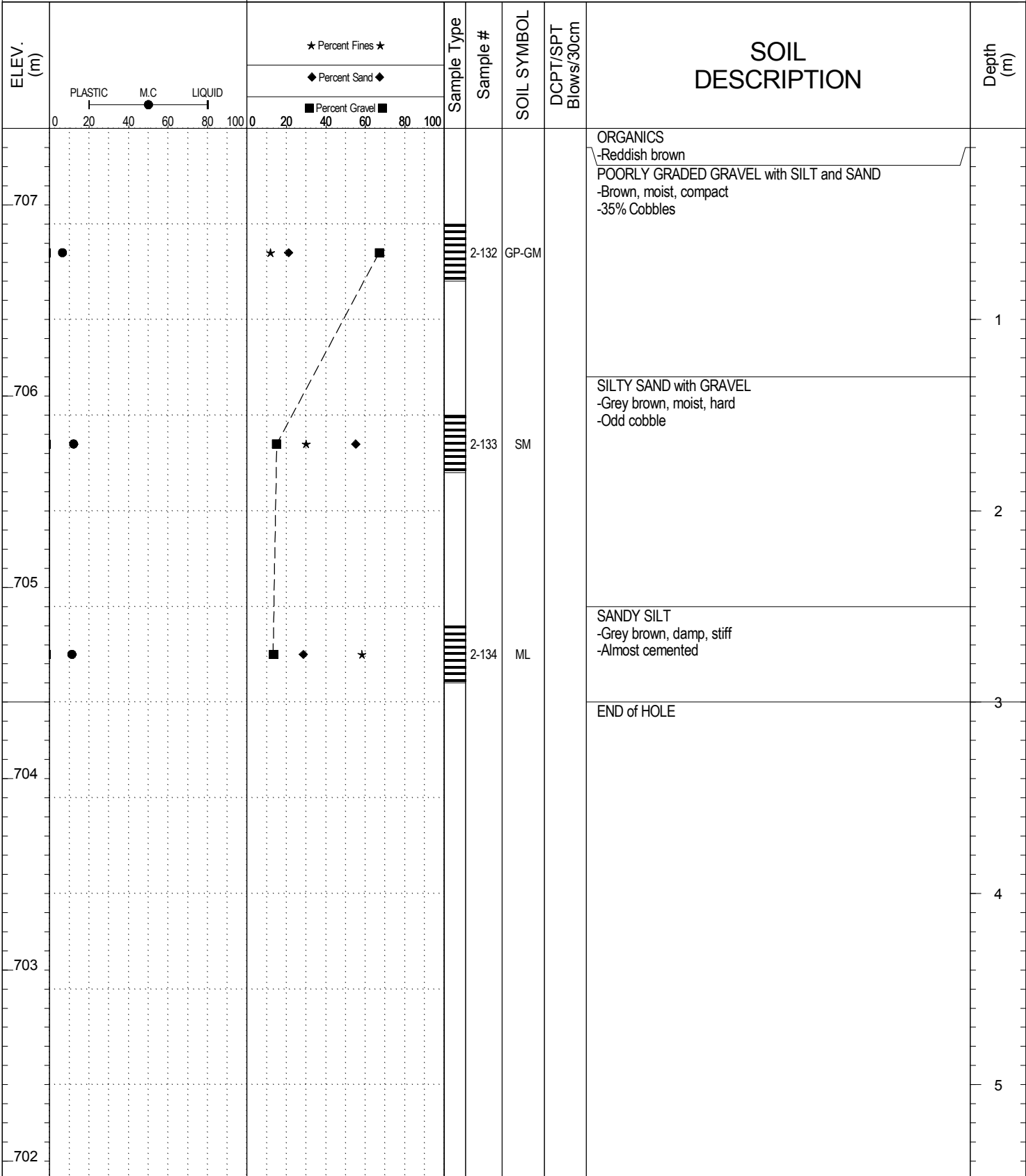
Pit #: Unassigned

SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 821-4757

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719928.6m E490859.1m ELEVATION: 707.4m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

Termination Depth: 3m

COMPILED BY: R.Stilwell

Complete: 10/31/2013 5:15:00 PM

REVIEWED BY: M. Idrees

Pit #: Unassigned

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 821-4758				
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5				
Hitachi 200 LC		Coordinates: Z9 N6719917.4m E490947.9m		ELEVATION: 703.2m				
SAMPLE TYPE		RETURN	DCPT	AUGER	BULK	SPT	CORE	
ELEV. (m)	PLASTIC	M.C	LIQUID	Percent Fines *	Percent Sand ♦	Percent Gravel ■	SOIL DESCRIPTION	Depth (m)
	0	20	40	60	80	100		
	0	20	40	60	80	100		
703							ORGANICS	
							SILT -Reddish brown, firm	
							SANDY SILT with GRAVEL -Brown, moist, firm	1
702								
							SILTY SAND -Grey brown, dense	2
701								
							END of HOLE	3
700								
								4
699								
								5
698								



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

COMPILED BY: R.Stilwell

REVIEWED BY: M. Idrees

Termination Depth: 2.5m

Complete: 10/31/2013 5:40:00 PM

Pit #: Unassigned

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 821-4759						
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5						
Hitachi 200 LC		Coordinates: Z9 N6719825.6m E491064.4m		ELEVATION: 650.3m						
SAMPLE TYPE		RETURN	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)
	650									
									ORGANICS	
									GRAVEL -Reddish brown	
									SILTY SAND -Brown, humid, loose	1
									-Grey brown	2
									SILT with SAND -Brown, humid, compact	3
									-Moist	4
									END of HOLE	5
645										
646										
647										
648										
649										
650										



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 821-4760					
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5					
Hitachi 200 LC		Coordinates: Z9 N6719905.1m E491148.4m		ELEVATION: 646.3m					
SAMPLE TYPE		<input checked="" type="checkbox"/> RETURN <input type="checkbox"/> DCPT <input 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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100								
646				2-140	GM		ORGANICS GRAVEL -Reddish brown -10% Boulders, 35% cobbles SILTY GRAVEL with SAND -Brown, compact, moist -10% Boulders, 35% cobbles	1	
645							-Cemented silts	2	
644							END of HOLE -Refusal	3	
643								4	
642								5	
641									
		LOGGED BY: R.Stilwell COMPILED BY: R.Stilwell REVIEWED BY: M. Idrees		Termination Depth: 1.6m Complete: 11/1/2013 9:45:00 AM Pit #: Unassigned					

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell Highway		SOURCE/TP#: 821-4761				
J.Magun		Campbell hwy Gravel Search km 70-90, km 73.2 RHS,		PROJECT NO: 552-202104-2035-0661-5				
Hitachi 200 LC		Coordinates: Z9 N6719919.6m E491060.1m		ELEVATION: 644.1m				
SAMPLE TYPE	RETURN	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							
644							ORGANICS	
							GRAVEL -Reddish brown -10% Cobbles	
				2-141	GW-GM		WELL-GRADED GRAVEL with SILT and SAND -Brown, moist, compact -10% Cobbles	1
643							-Grey brown	
				2-142	GP		POORLY GRADED GRAVEL with SAND	2
642								
				2-143	GP			3
641								
							END of HOLE -Cave in	4
640								
								5
639								



SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 821-4762

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719716.9m E490997.1m ELEVATION: 637.4m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE

ELEV. (m)							Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC	M.C.	LIQUID									
637											ORGANICS SILT -Reddish brown -Light brown, damp, soft	
636								2-144	ML		-Stiff	1
635								2-145	ML		-Wet	2
634											END of HOLE	3
633												4
632												5



**Highways and Public Works
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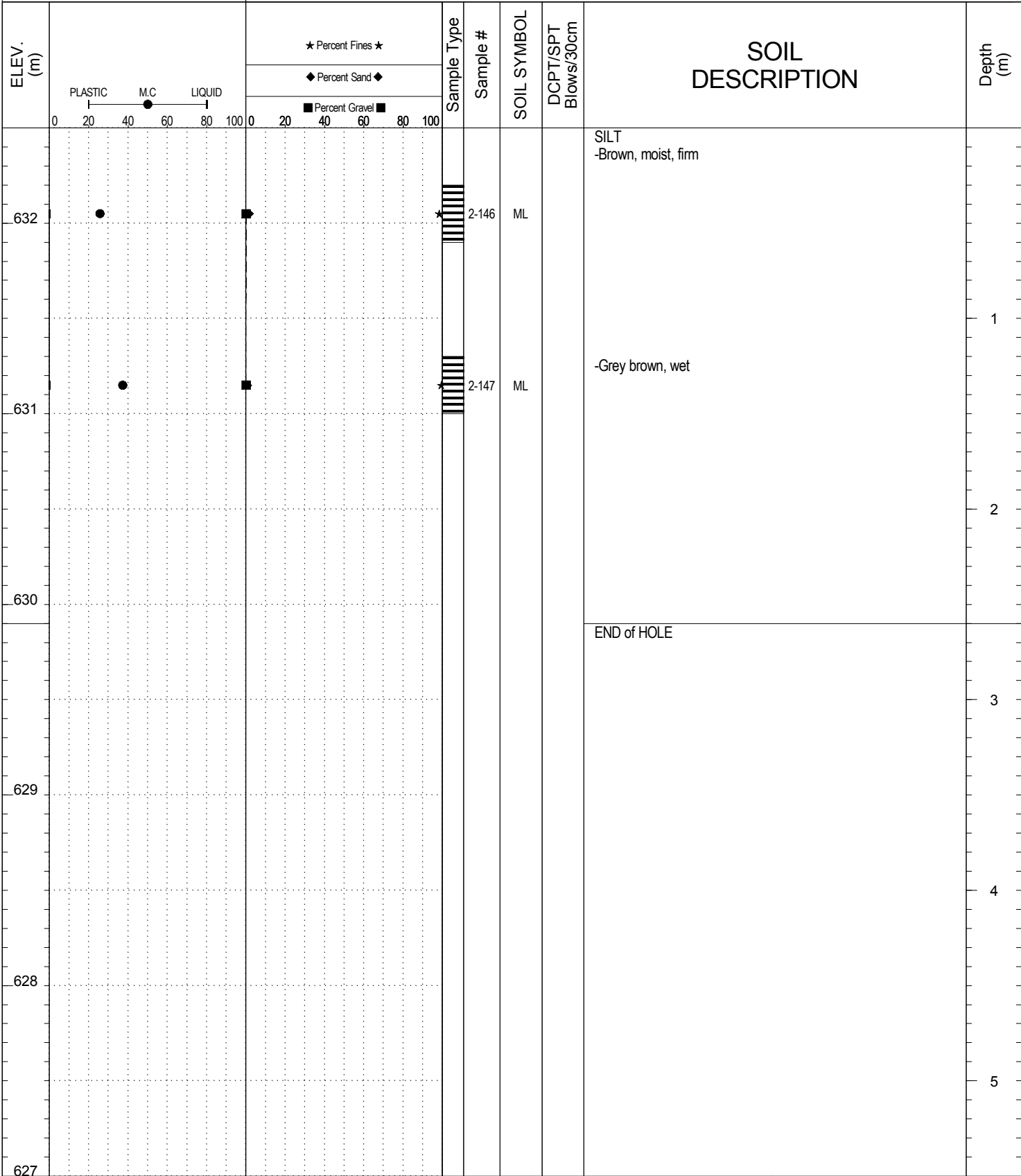
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COMPILED BY: R.Stilwell	Complete: 11/1/2013 11:20:00 AM
REVIEWED BY: M. Idrees	Pit #: Unassigned Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 821-4763

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719573.9m E490997.8m ELEVATION: 632.5m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE

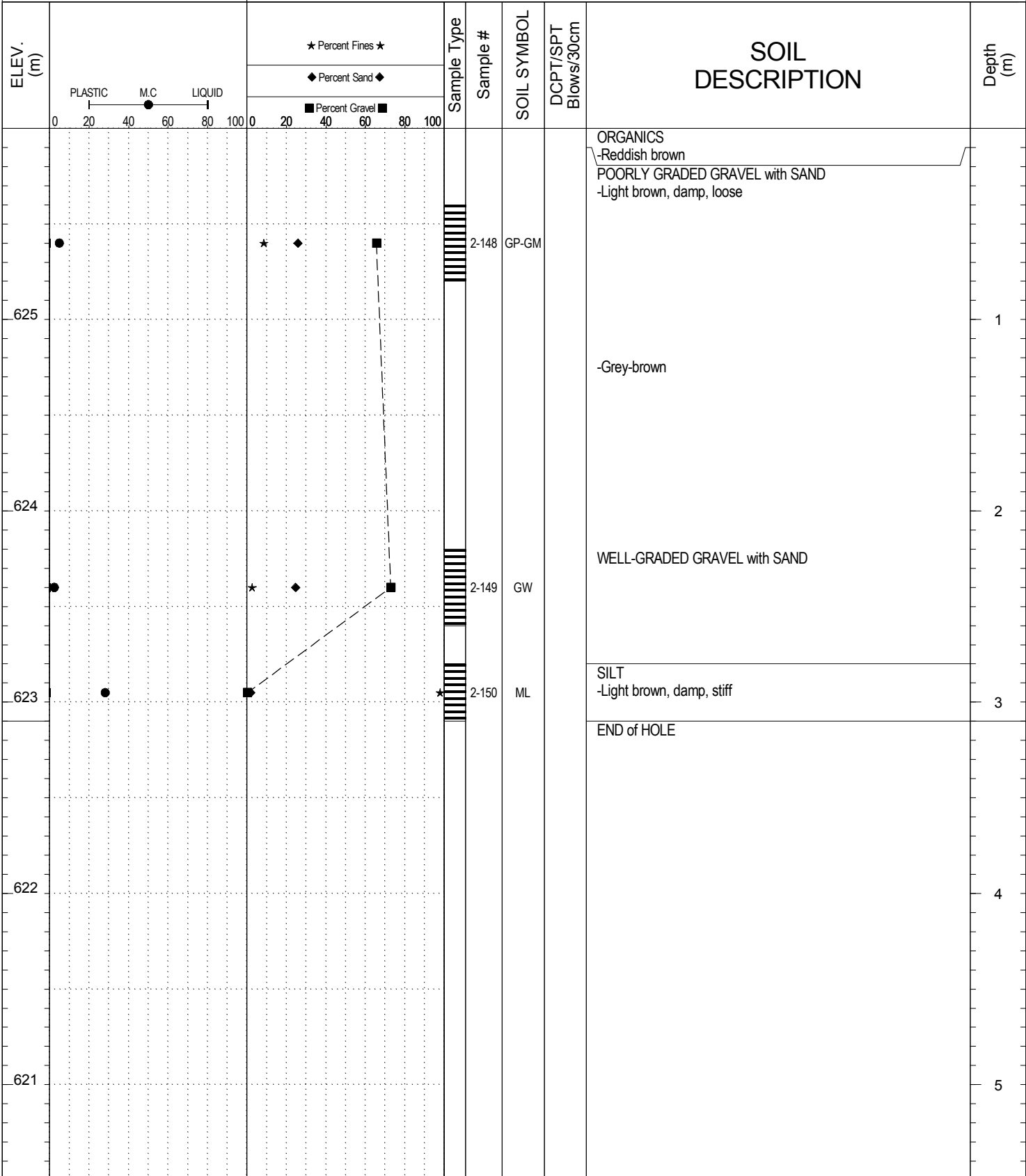


SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 821-4764

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719817.6m E490801.8m ELEVATION: 626m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell

COMPILED BY: R.Stilwell

REVIEWED BY: M. Idrees

Termination Depth: 3.1m

Complete: 11/1/2013 1:50:00 PM

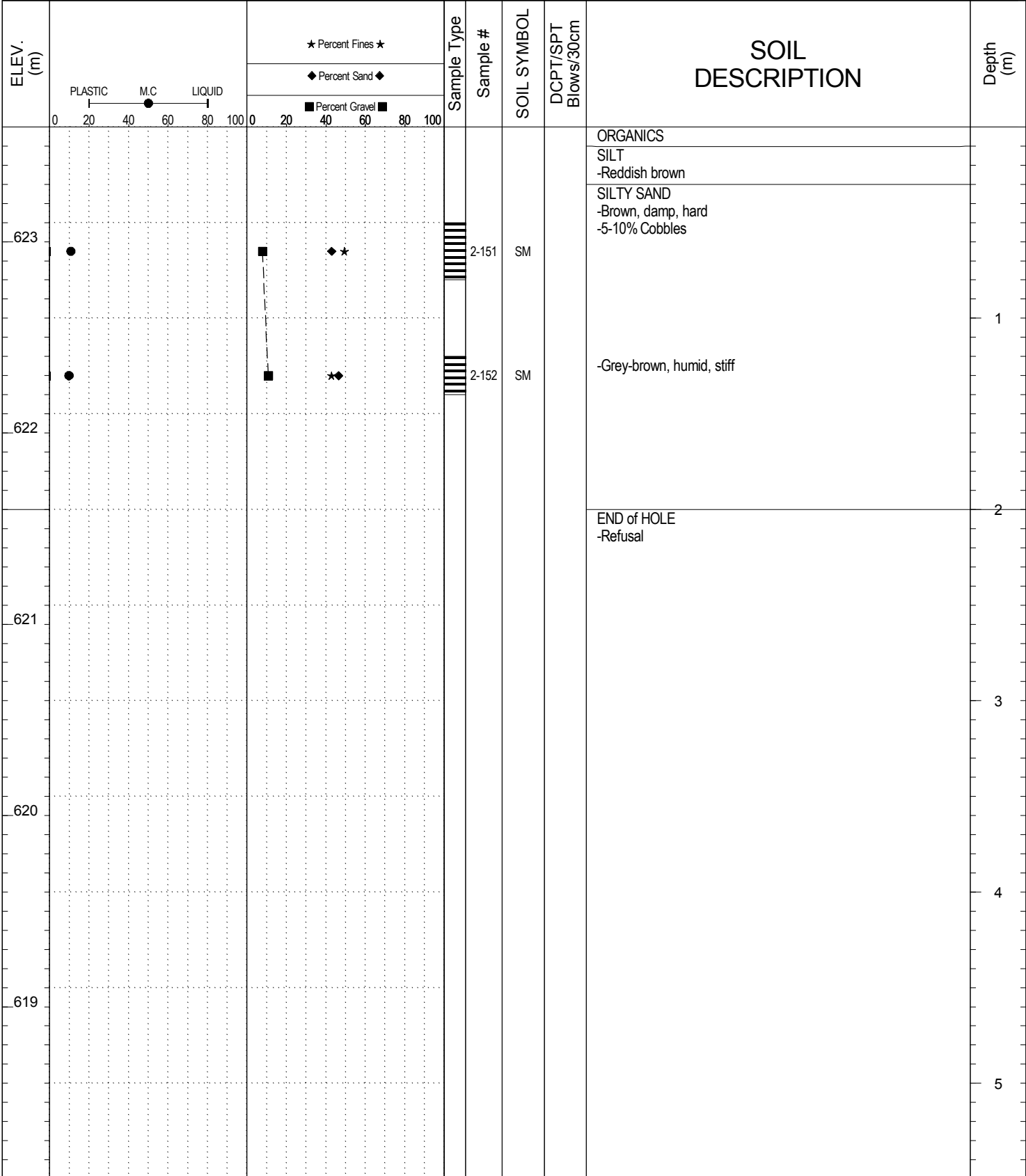
Pit #: Unassigned

SUBSURFACE EXPLORATION AND TEST REPORT Campbell Highway SOURCE/TP#: 821-4765

J.Magun Campbell hwy Gravel Search km 70-90, km 73.2 RHS, PROJECT NO: 552-202104-2035-0661-5

Hitachi 200 LC Coordinates: Z9 N6719847.6m E490868m ELEVATION: 623.6m

SAMPLE TYPE RETURN DCPT AUGER BULK SPT CORE



**Highways and Public Works
Transportation Engineering Branch**

LOGGED BY: R.Stilwell	Termination Depth: 2m
COMPILED BY: R.Stilwell	Complete: 11/1/2013 2:30:00 PM
REVIEWED BY: M. Idrees	Pit #: Unassigned Page 1 of 1

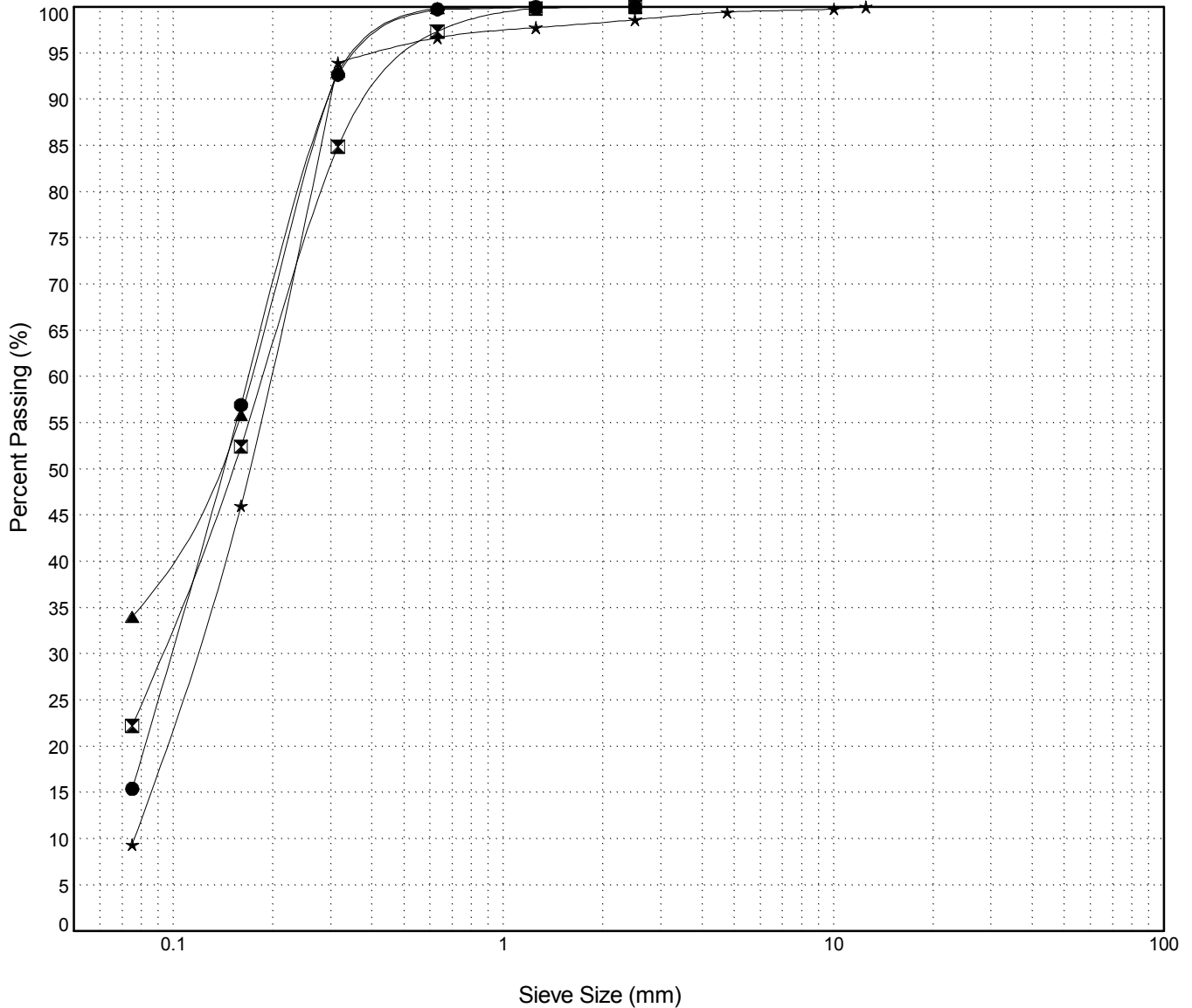
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4727
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719273.3m E490715.7m	ELEVATION: 697.6m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-036	1360	0.5 to 0.7	SILTY SAND(SM)	8.9	NP	NP	NP		
☒ 2-037	1361	1.3 to 1.5	SILTY SAND(SM)	10.5	NP	NP	NP		
▲ 2-038	1362	3.0 to 3.2	SILTY SAND(SM)	9.6	NP	NP	NP		
★ 2-039	1363	4.8 to 5.0	POORLY GRADED SAND with SILT(SP-SM)	6.4	NP	NP	NP	0.9	2.6

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														
● 2-036	1360	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	92.7	56.9	15.4	0.0	84.6	15.4	
☒ 2-037	1361	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	97.3	84.9	52.4	22.2	0.0	77.8	22.2	
▲ 2-038	1362	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	93.0	55.8	34.0		0.0	66.0	34.0	
★ 2-039	1363	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.4	98.6	97.8	96.7	94.0	46.0	9.4		0.6	90.0	9.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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Pit #: Unassigned
Complete: 10/27/2013 12:05:00 PM

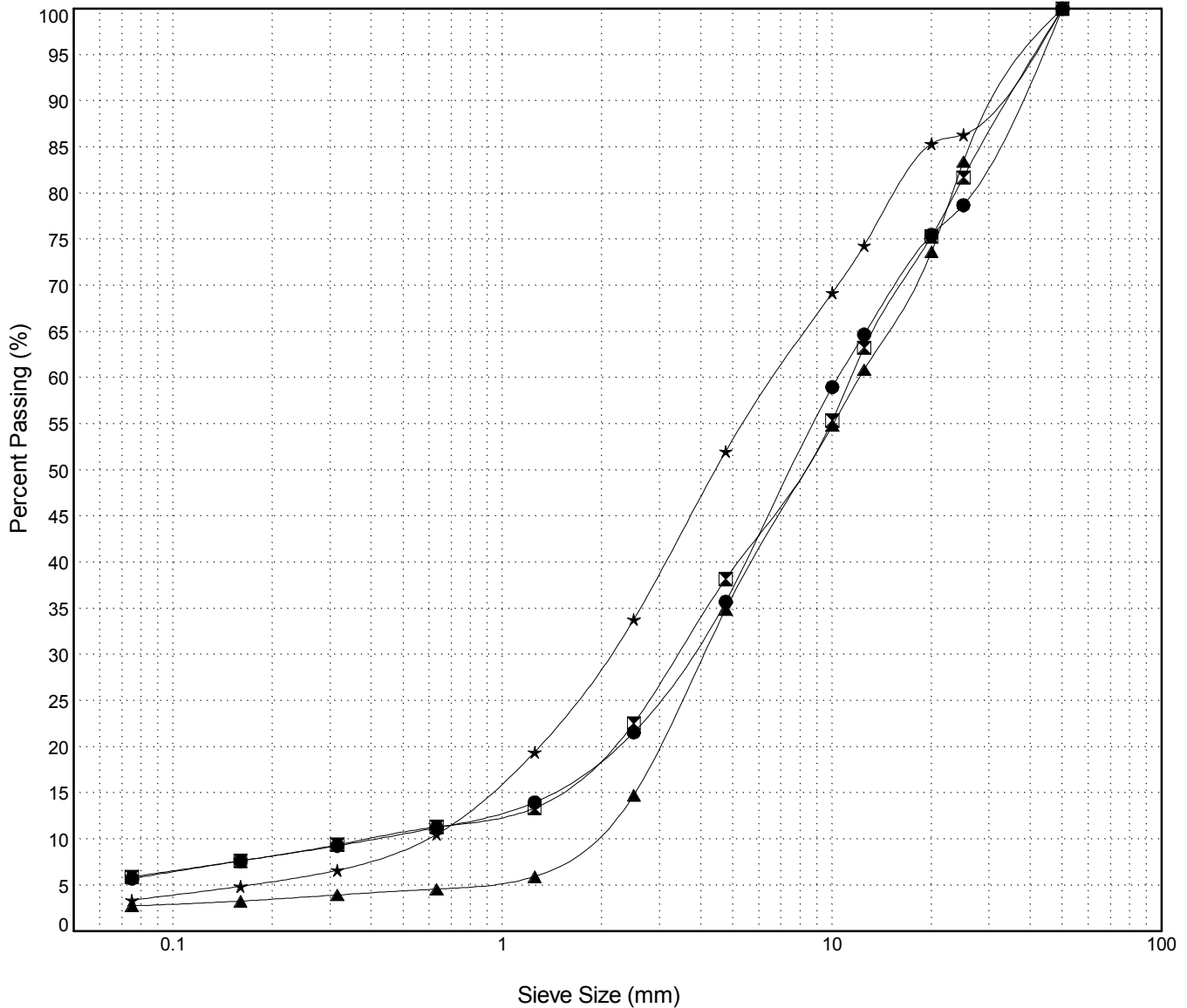
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4728
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719302.5m E490869.4m	ELEVATION: 705.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-040	1364	0.1 to 0.3	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	7.1	NP	NP	NP	3.2	25.5
☒ 2-041	1365	2.0 to 2.2	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	3.9	NP	NP	NP	2.6	29.1
▲ 2-042	1367	3.5 to 3.7	POORLY GRADED GRAVEL with SAND(GP)	1.9	NP	NP	NP	0.8	7.0
★ 2-043	1368	4.0 to 4.2	WELL-GRADED SAND with GRAVEL(SW)	2.6	NP	NP	NP	1.1	11.7

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
● 2-040	1364	100.0	100.0	100.0	100.0	78.7	75.5	64.7	59.0	35.7	21.6	14.0	11.2	9.3	7.6	5.7	64.3	30.0	5.7	
☒ 2-041	1365	100.0	100.0	100.0	81.7	75.3	63.3	55.4	38.2	22.6	13.4	11.3	9.4	7.6	5.9	61.8	32.3	5.9		
▲ 2-042	1367	100.0	100.0	100.0	83.4	73.6	60.9	54.8	34.9	14.8	5.9	4.6	4.0	3.3	2.8	65.1	32.1	2.8		
★ 2-043	1368	100.0	100.0	100.0	86.3	85.4	74.3	69.2	52.0	33.8	19.4	10.5	6.6	4.9	3.4	48.0	48.6	3.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: R.Stilwell
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Pit #: Unassigned
Complete: 10/27/2013 1:15:00 PM

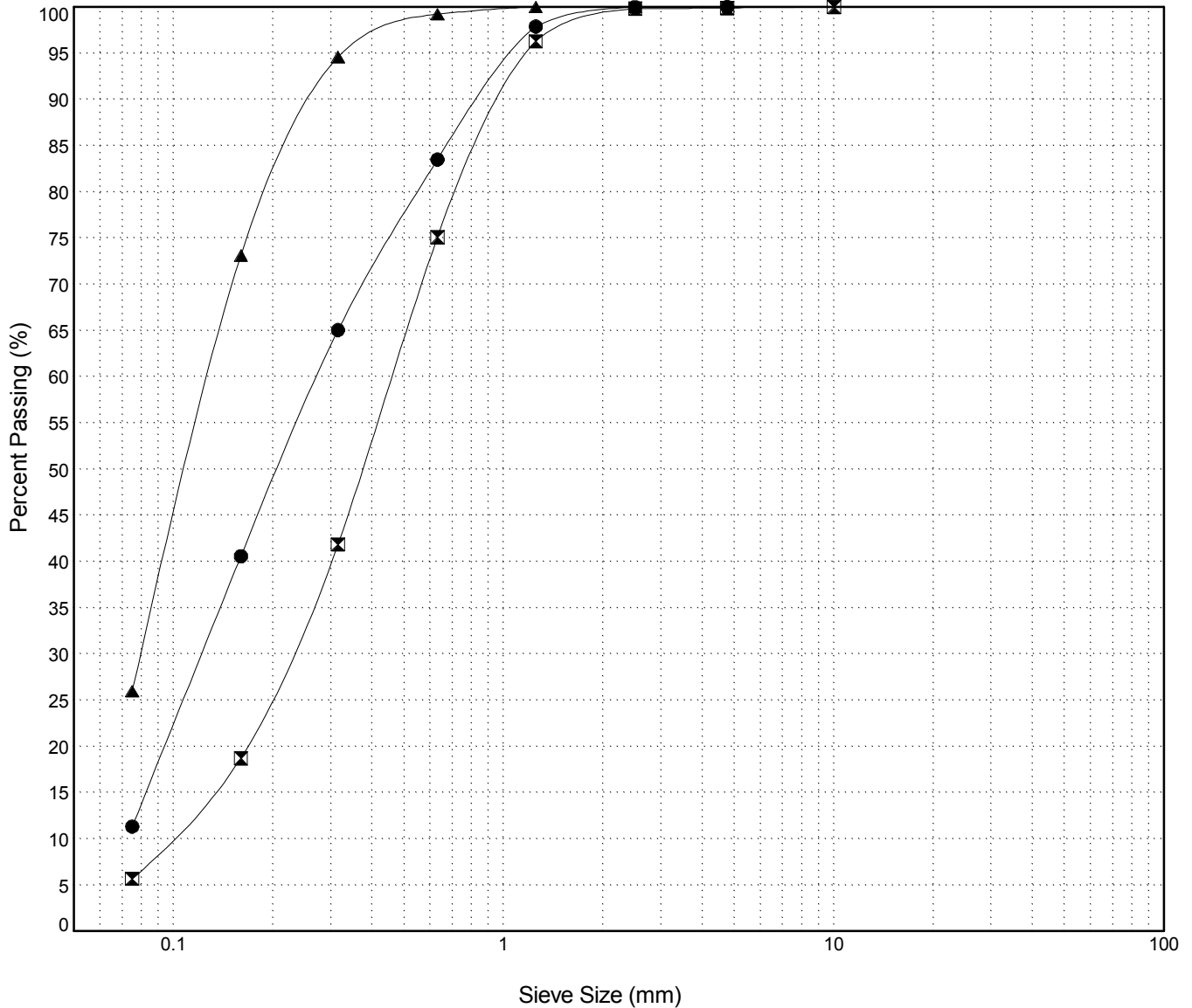
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4729
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719322.2m E491020.5m	ELEVATION: 709.6m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-044	1369	0.5 to 0.7	POORLY GRADED SAND with SILT(SP-SM)	7.7	NP	NP	NP	0.7	3.8
☒ 2-045	1370	2.0 to 2.2	POORLY GRADED SAND with SILT(SP-SM)	6.8	NP	NP	NP	1.1	4.8
▲ 2-046	1371	3.8 to 4.0	SILTY SAND(SM)	11.5	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														
● 2-044	1369	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.9	83.5	65.0	40.6	11.3	0.0	88.7	11.3	
☒ 2-045	1370	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	96.3	75.1	41.8	18.7	5.7	0.1	94.2	5.7	
▲ 2-046	1371	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	94.6	73.1	26.0	0.0	74.0	26.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: R.Stilwell
COMPILED BY: R.Stilwell
REVIEWED BY: M. Idrees

Pit #: Unassigned
Complete: 10/27/2013 2:30:00 PM

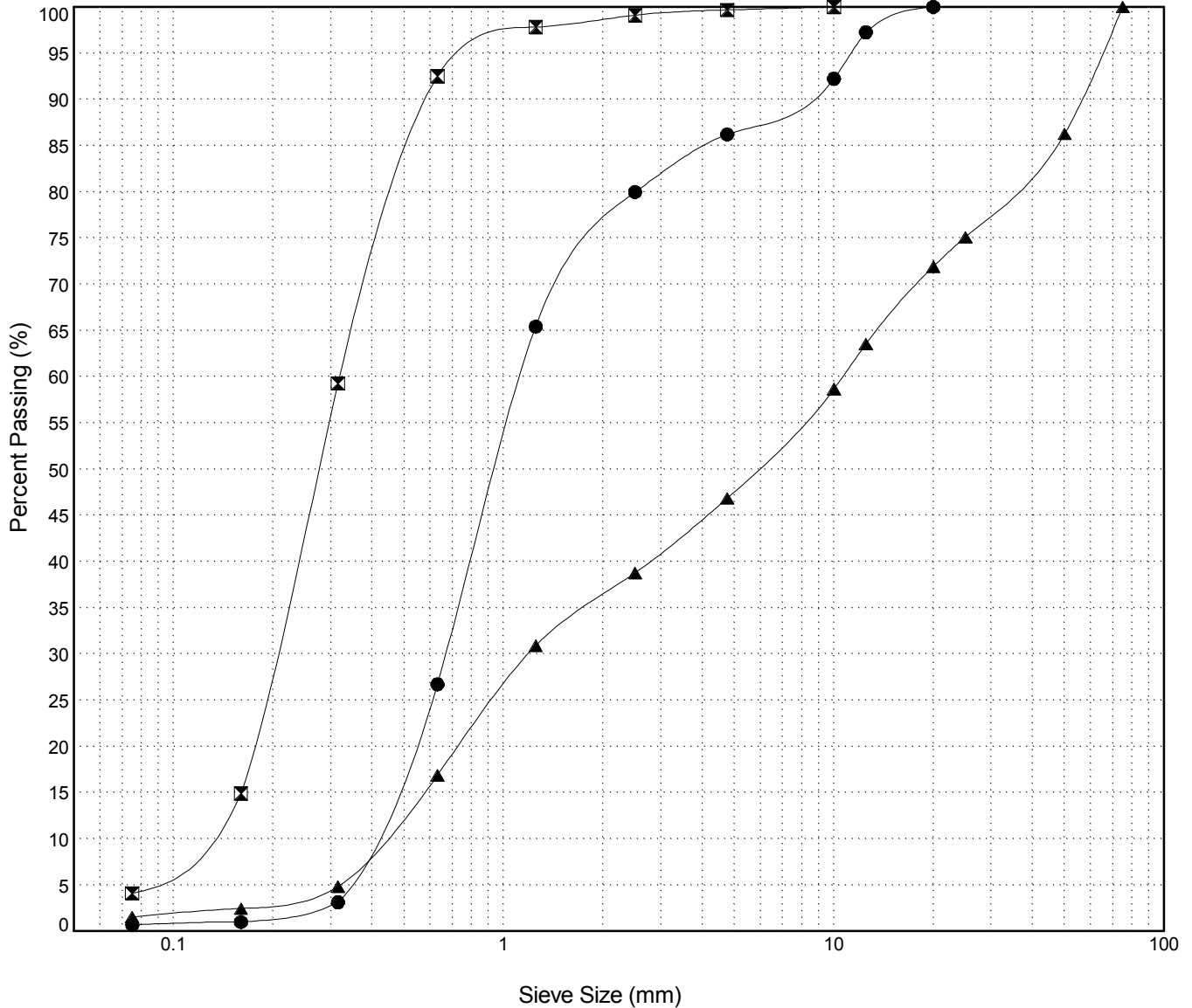
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J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719347.9m E491177.9m	ELEVATION: 710.1m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-047	1372	0.4 to 0.6	POORLY GRADED SAND(SP)	4.3	NP	NP	NP	1.0	2.9
☒ 2-048	1373	1.5 to 1.7	POORLY GRADED SAND(SP)	7.0	NP	NP	NP	1.1	2.8
▲ 2-049	1374	3.0 to 3.4	POORLY GRADED GRAVEL with SAND(GP)	3.1	NP	NP	NP	0.3	25.1

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
● 2-047	1372	100.0	100.0	100.0	100.0	100.0	97.2	92.2	86.2	80.0	65.4	26.7	3.1	1.0	0.7	13.8	85.5	0.7
☒ 2-048	1373	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.1	97.8	92.5	59.3	14.9	4.1	0.3	95.6	4.1
▲ 2-049	1374	100.0	100.0	86.3	75.1	71.9	63.5	58.7	46.8	38.8	30.9	16.9	4.8	2.5	1.5	53.2	45.3	1.5

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



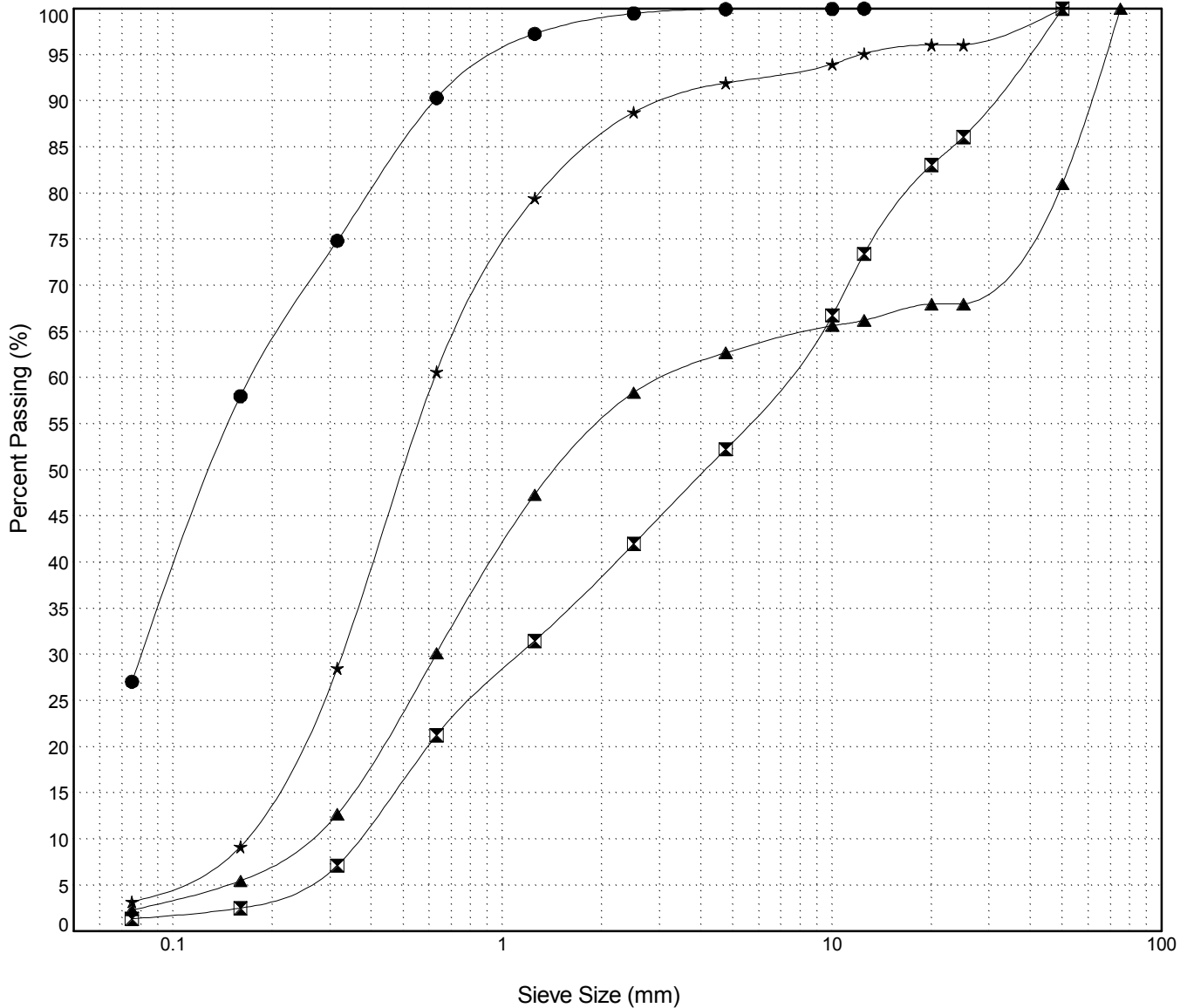
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J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719537.6m E491341.1m	ELEVATION: 815m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-050	1375	0.6 to 0.8	SILTY SAND(SM)	13.8	NP	NP	NP		
☒ 2-051	1376	1.6 to 1.8	POORLY GRADED SAND with GRAVEL(SP)	2.1	NP	NP	NP	0.5	19.5
▲ 2-052	1377	3.5 to 3.8	POORLY GRADED SAND with GRAVEL(SP)	2.6	NP	NP	NP	0.5	13.0
★ 2-053	1378	4.6 to 4.8	POORLY GRADED SAND(SP)	7.5	NP	NP	NP	1.0	3.8

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
● 2-050	1375	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	97.3	90.3	74.8	58.0	27.1	0.1	72.9	27.1
☒ 2-051	1376	100.0	100.0	100.0	86.1	83.0	73.4	66.8	52.2	42.0	31.5	21.3	7.1	2.5	1.4		47.8	50.9	1.4
▲ 2-052	1377	100.0	100.0	81.0	68.0	68.0	66.2	65.6	62.7	58.4	47.3	30.2	12.7	5.5	2.3		37.3	60.4	2.3
★ 2-053	1378	100.0	100.0	100.0	96.1	96.1	95.1	94.0	91.9	88.8	79.5	60.6	28.5	9.2	3.2		8.1	88.7	3.2

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: R.Stilwell
COMPILED BY: R.Stilwell
REVIEWED BY: M. Idrees

Pit #: Unassigned
Complete: 10/28/2013 10:05:00 AM

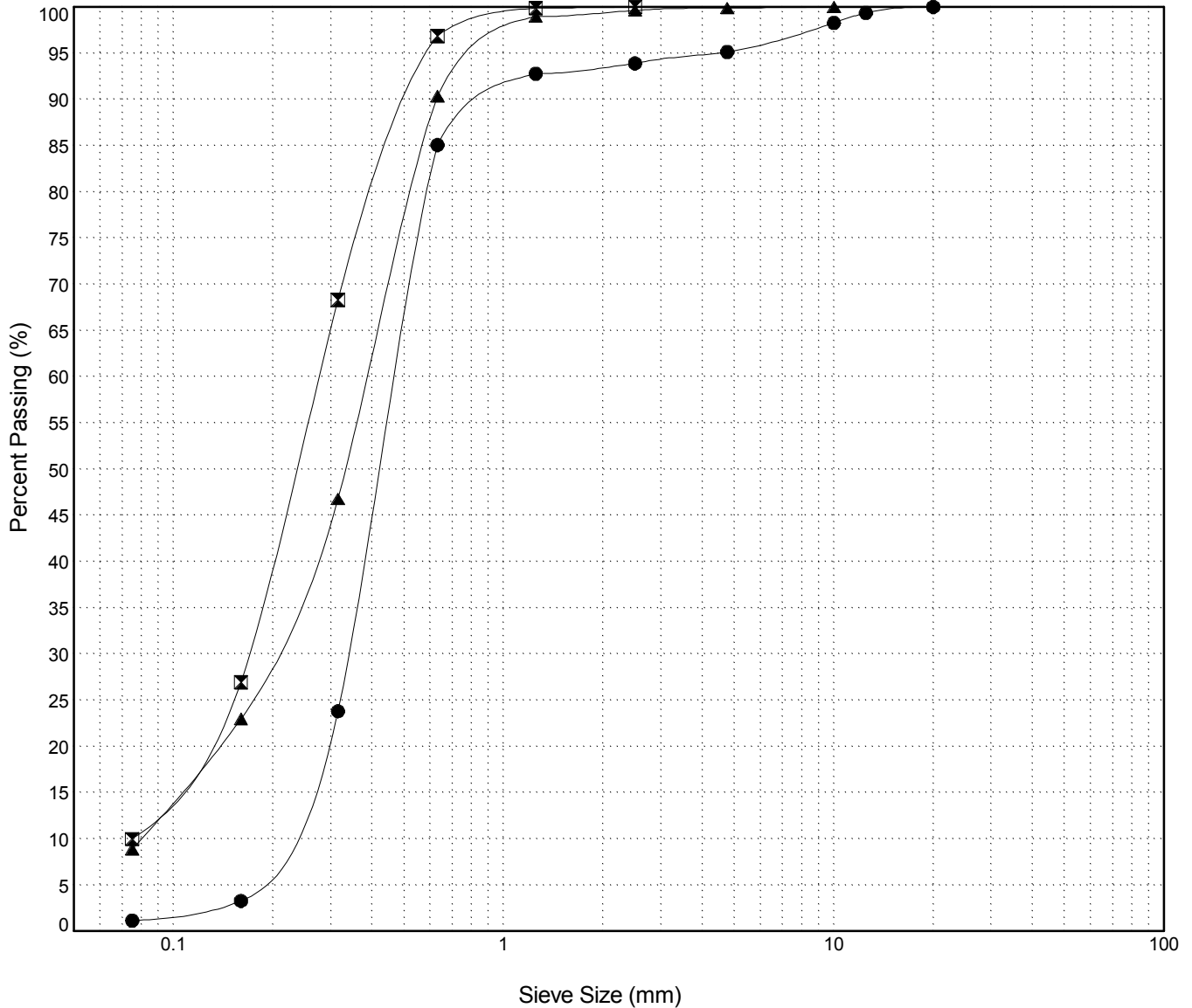
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4732
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719380.5m E491104.4m	ELEVATION: 821.3m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-054	1379	0.6 to 0.9	POORLY GRADED SAND(SP)	4.7	NP	NP	NP	1.2	2.4
☒ 2-055	1380	2.2 to 2.4	POORLY GRADED SAND with SILT(SP-SM)	7.0	NP	NP	NP	1.4	3.7
▲ 2-056	1381	3.4 to 3.8	POORLY GRADED SAND with SILT(SP-SM)	6.1	NP	NP	NP	1.2	4.9

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			
		% PASSING														Gravel	Sand	Silt	Clay
● 2-054	1379	100.0	100.0	100.0	100.0	100.0	99.4	98.3	95.1	93.9	92.8	85.1	23.8	3.3	1.2	4.9	94.0	1.2	
☒ 2-055	1380	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	96.9	68.3	27.0	10.0	0.0	90.0	10.0	
▲ 2-056	1381	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	99.0	90.3	46.8	23.0	8.9	0.1	91.0	8.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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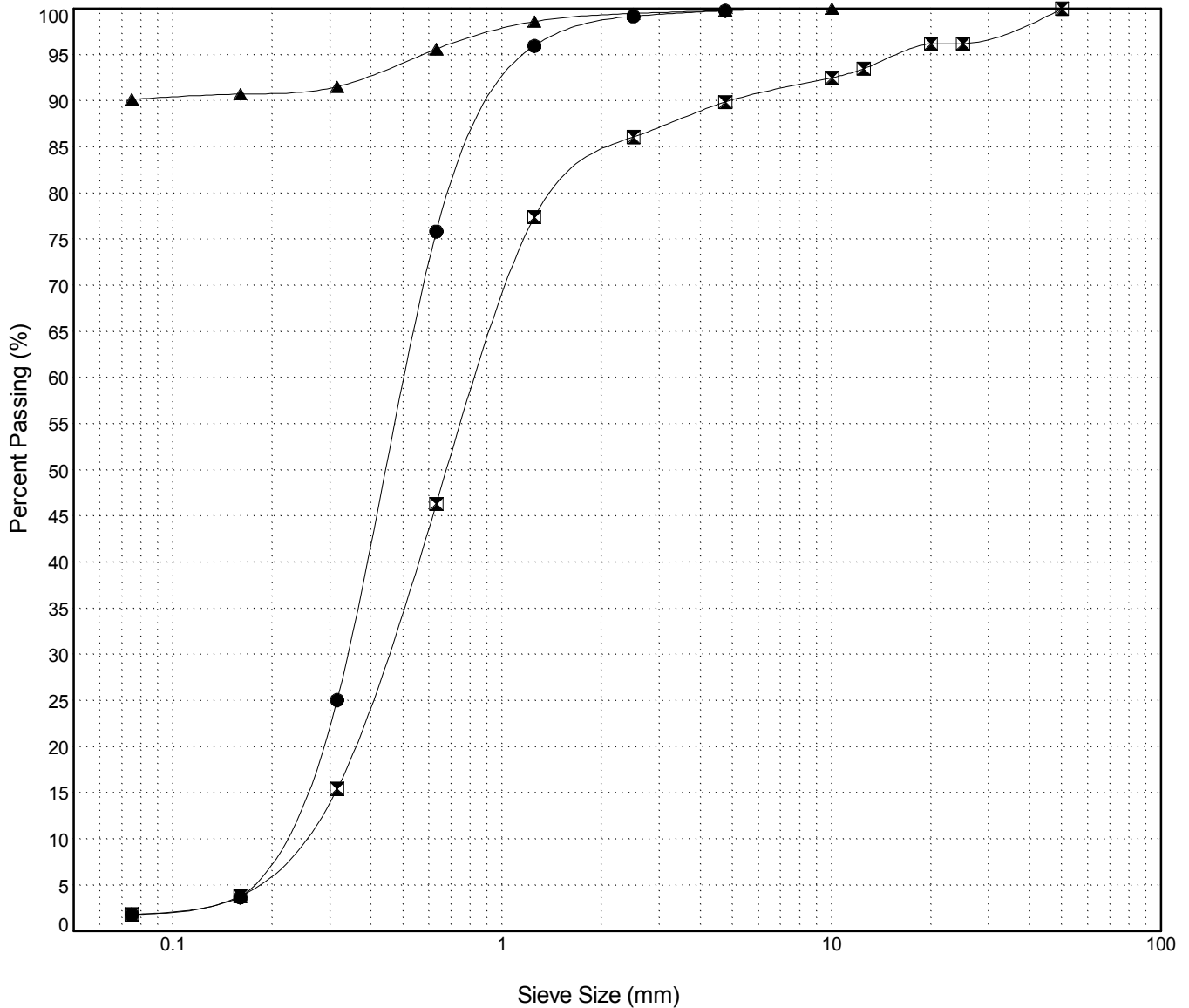
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4733
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719509.8m E491075.5m	ELEVATION: 862.5m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-057	1382	0.6 to 0.8	POORLY GRADED SAND(SP)	5.6	NP	NP	NP	1.1	2.6
☒ 2-058	1383	1.9 to 2.2	POORLY GRADED SAND(SP)	4.1	NP	NP	NP	1.0	3.7
▲ 2-059	1384	3.1 to 3.4	SILT(ML)	23.5	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
● 2-057	1382	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.2	96.0	75.8	25.1	3.7	1.8		97.9	1.8		
☒ 2-058	1383	100.0	100.0	100.0	96.2	96.2	93.5	92.5	89.9	86.1	77.4	46.3	15.4	3.8	1.8	10.1	88.0	1.8		
▲ 2-059	1384	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.5	98.6	95.6	91.5	90.7	90.2	0.2	9.6	90.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
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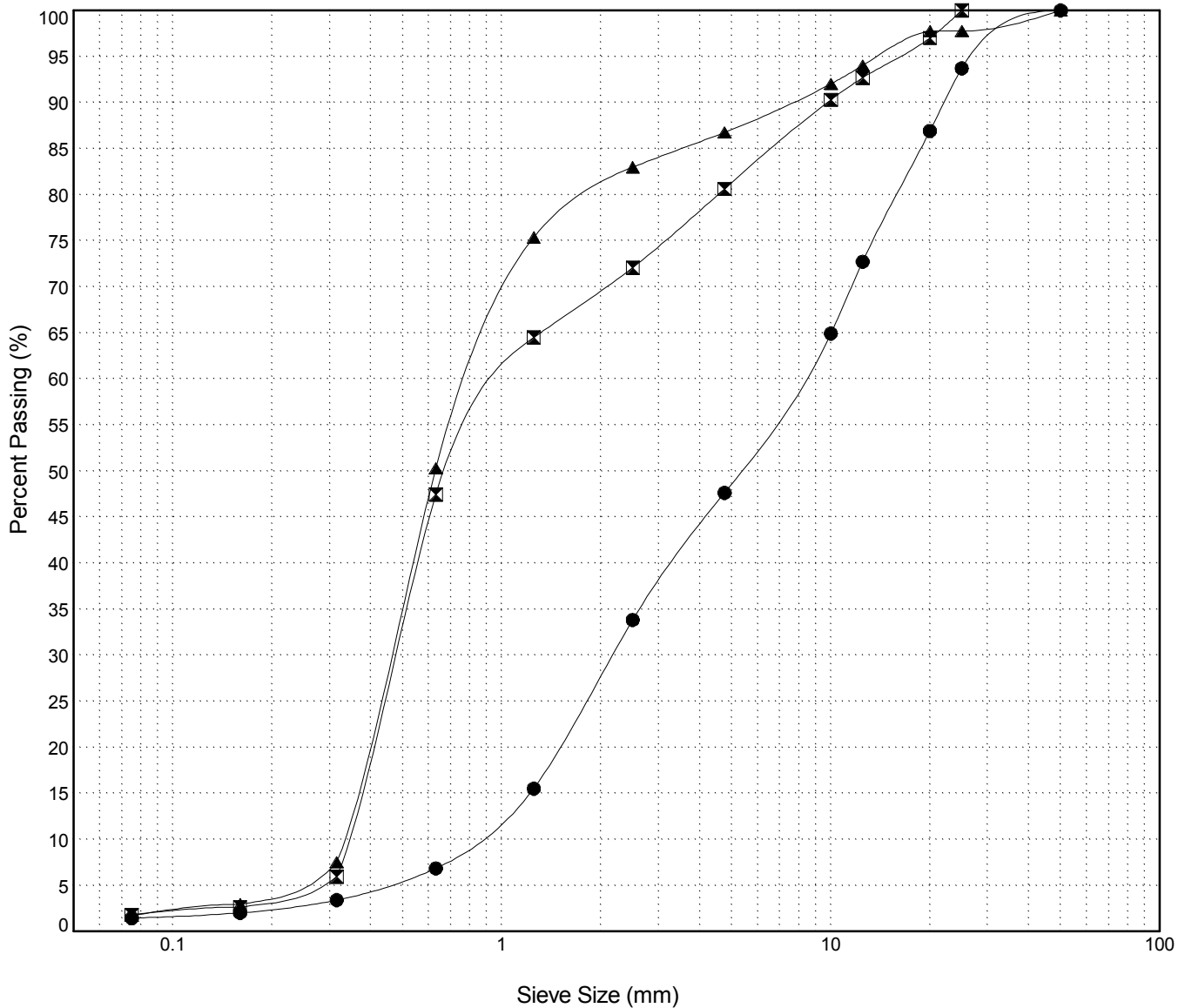
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4734
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719711.6m E491099.2m	ELEVATION: 874.3m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-060	1385	0.6 to 0.9	POORLY GRADED GRAVEL with SAND(GP)	8.4	NP	NP	NP	0.7	10.0
☒ 2-061	1386	2.0 to 2.3	POORLY GRADED SAND with GRAVEL(SP)	3.4	NP	NP	NP	0.6	3.1
▲ 2-062	1387	3.2 to 3.5	POORLY GRADED SAND(SP)	3.3	NP	NP	NP	0.8	2.5

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
● 2-060	1385	100.0	100.0	100.0	100.0	93.7	86.9	72.7	64.9	47.6	33.8	15.5	6.8	3.4	2.0	1.5	52.4	46.2	1.5	
☒ 2-061	1386	100.0	100.0	100.0	100.0	97.0	92.7	90.3	80.6	72.1	64.5	47.4	6.0	2.6	1.8	19.4	78.8	1.8		
▲ 2-062	1387	100.0	100.0	100.0	97.8	97.8	94.0	92.0	86.7	83.0	75.3	50.3	7.5	3.0	1.7	13.3	85.0	1.7		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



**Highways and Public Works
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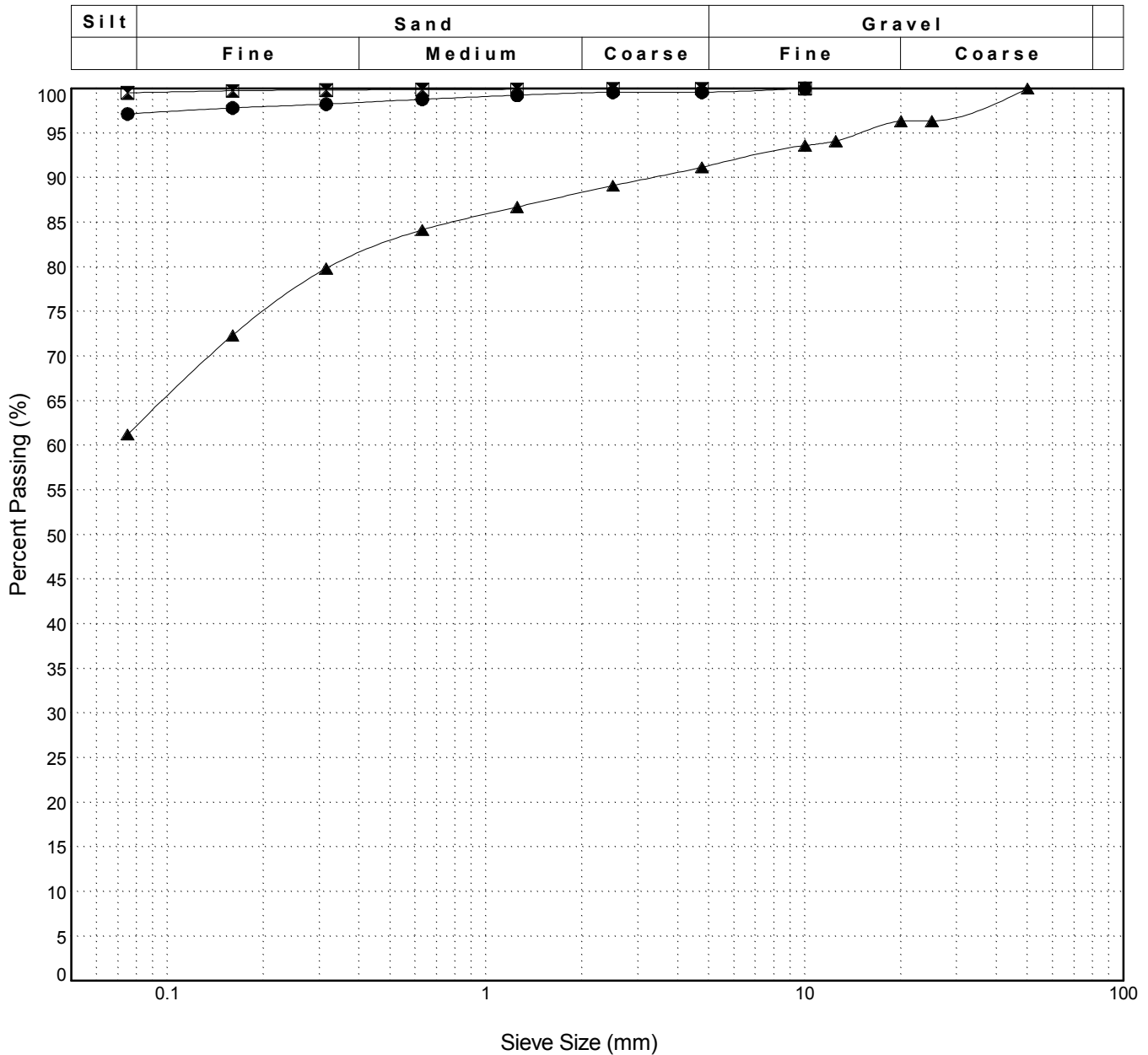
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4735
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719847.4m E490601.4m	ELEVATION: 791.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-063	1388	0.4 to 0.7	SILT(ML)	23.6	NP	NP	NP		
☒ 2-064	1389	1.7 to 2.0	SILT(ML)	37.7	NP	NP	NP		
▲ 2-065	1390	2.4 to 2.7	SANDY SILT(ML)	10.3	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			
																Gravel	Sand	Silt	Clay
● 2-063	1388	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.6	99.2	98.8	98.2	97.8	97.1	0.4	2.4	97.1	
☒ 2-064	1389	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.8	99.7	99.5	0.0	0.5	99.5	
▲ 2-065	1390	100.0	100.0	100.0	96.3	96.3	94.1	93.6	91.2	89.1	86.7	84.1	79.8	72.3	61.2	8.8	29.9	61.2	

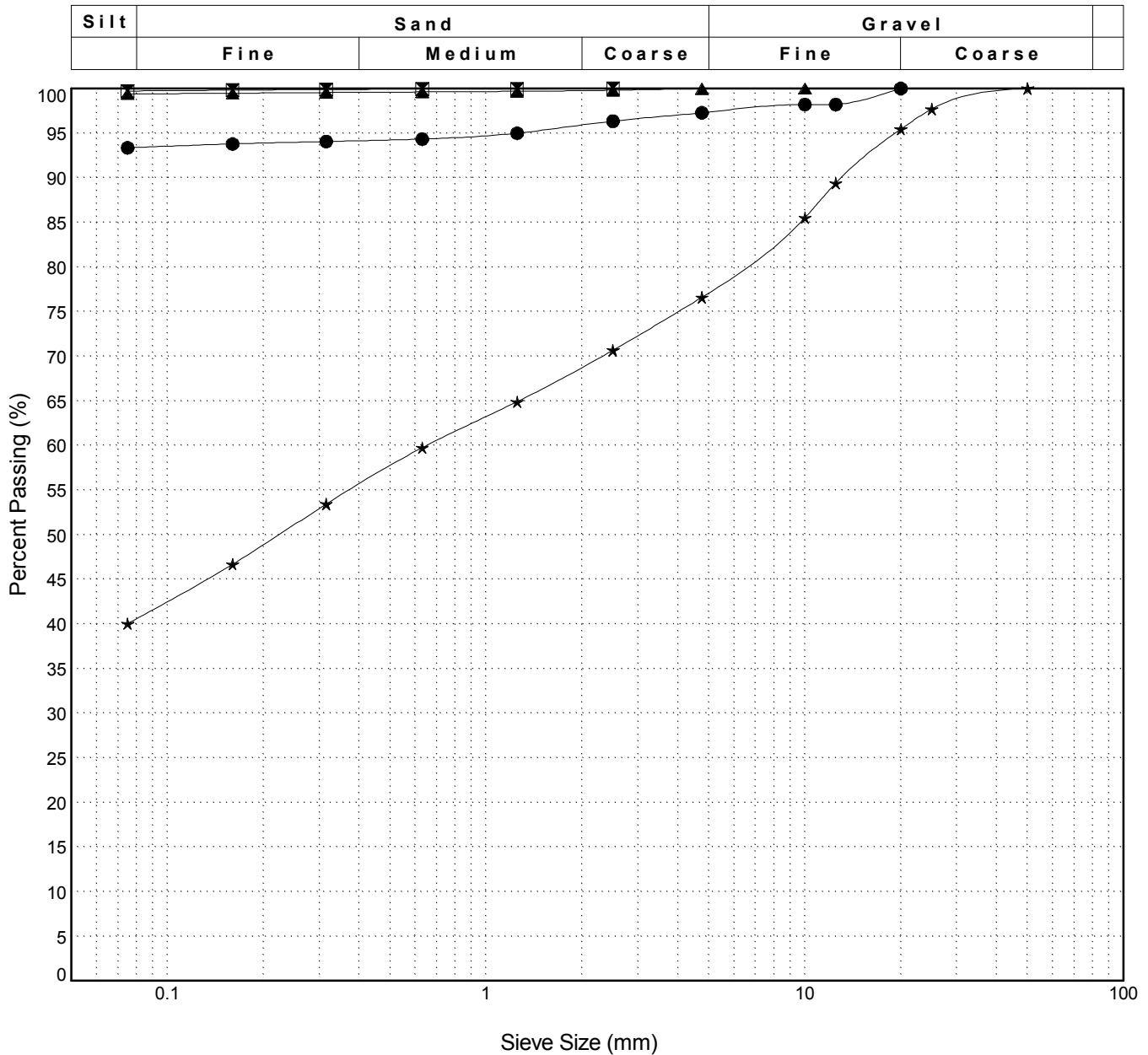


GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4736
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719900m E490802m	ELEVATION: 787m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-066	1391	0.5 to 0.8	SILT(ML)	23.8	NP	NP	NP		
☒ 2-067	1392	1.8 to 2.0	SILT(ML)	25.7	NP	NP	NP		
▲ 2-068	1393	2.6 to 2.8	SILT(ML)	39.1	NP	NP	NP		
★ 2-069	1394	4.4 to 4.6	SILTY SAND with GRAVEL(SM)	16.8	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														
● 2-066	1391	100.0	100.0	100.0	100.0	100.0	98.2	98.2	97.3	96.3	95.0	94.3	94.0	93.8	93.4	2.7	3.9	93.4		
☒ 2-067	1392	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.8	99.7	0.0	0.3	99.7		
▲ 2-068	1393	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.7	99.6	99.5	99.5	99.4	0.0	0.6	99.4		
★ 2-069	1394	100.0	100.0	100.0	97.7	95.4	89.4	85.5	76.6	70.7	64.9	59.7	53.4	46.7	40.0	23.4	36.5	40.0		



Highways and Public Works
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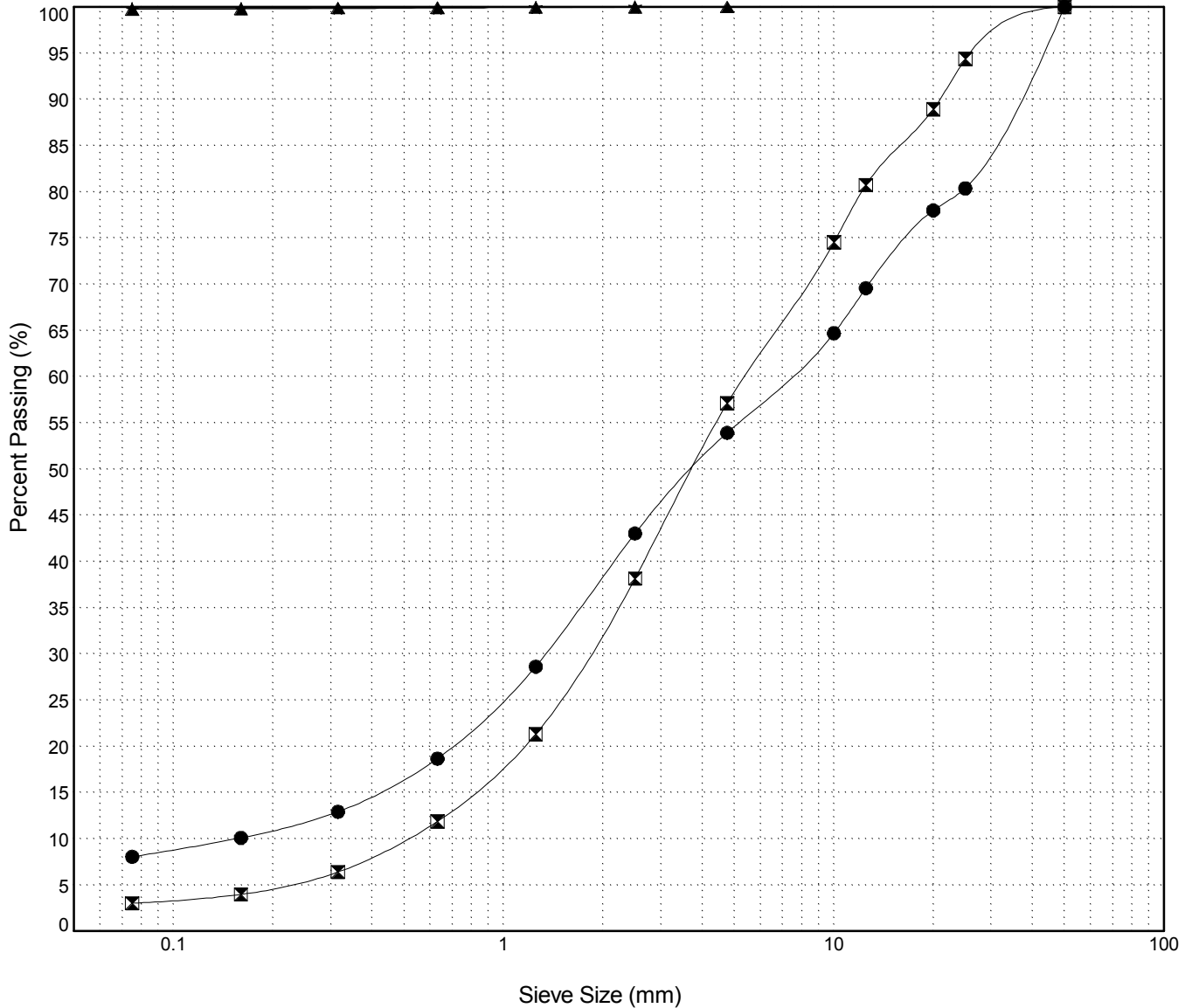
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J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719793.2m E490733.2m	ELEVATION: 788.3m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-070	1395	0.3 to 0.6	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	6.1	NP	NP	NP	1.6	46.9
☒ 2-071	1396	1.2 to 1.4	WELL-GRADED SAND with GRAVEL(SW)	6.6	NP	NP	NP	1.2	10.8
▲ 2-072	1397	1.8 to 2.2	SILT(ML)	30.8	NP	NP	NP		
★ 2-073	1398	4.0 to 4.2	SILT(ML)	23.0	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
● 2-070	1395	100.0	100.0	100.0	100.0	80.4	78.0	69.6	64.7	53.9	43.0	28.6	18.7	12.9	10.1	8.1	46.1	45.9	8.1
☒ 2-071	1396	100.0	100.0	100.0	94.4	88.9	80.7	74.5	57.1	38.2	21.3	11.9	6.4	4.0	3.0		42.9	54.1	3.0
▲ 2-072	1397	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.8	99.7		0.0	0.3	99.7
★ 2-073	1398	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.8	99.8			0.0	0.2	99.8

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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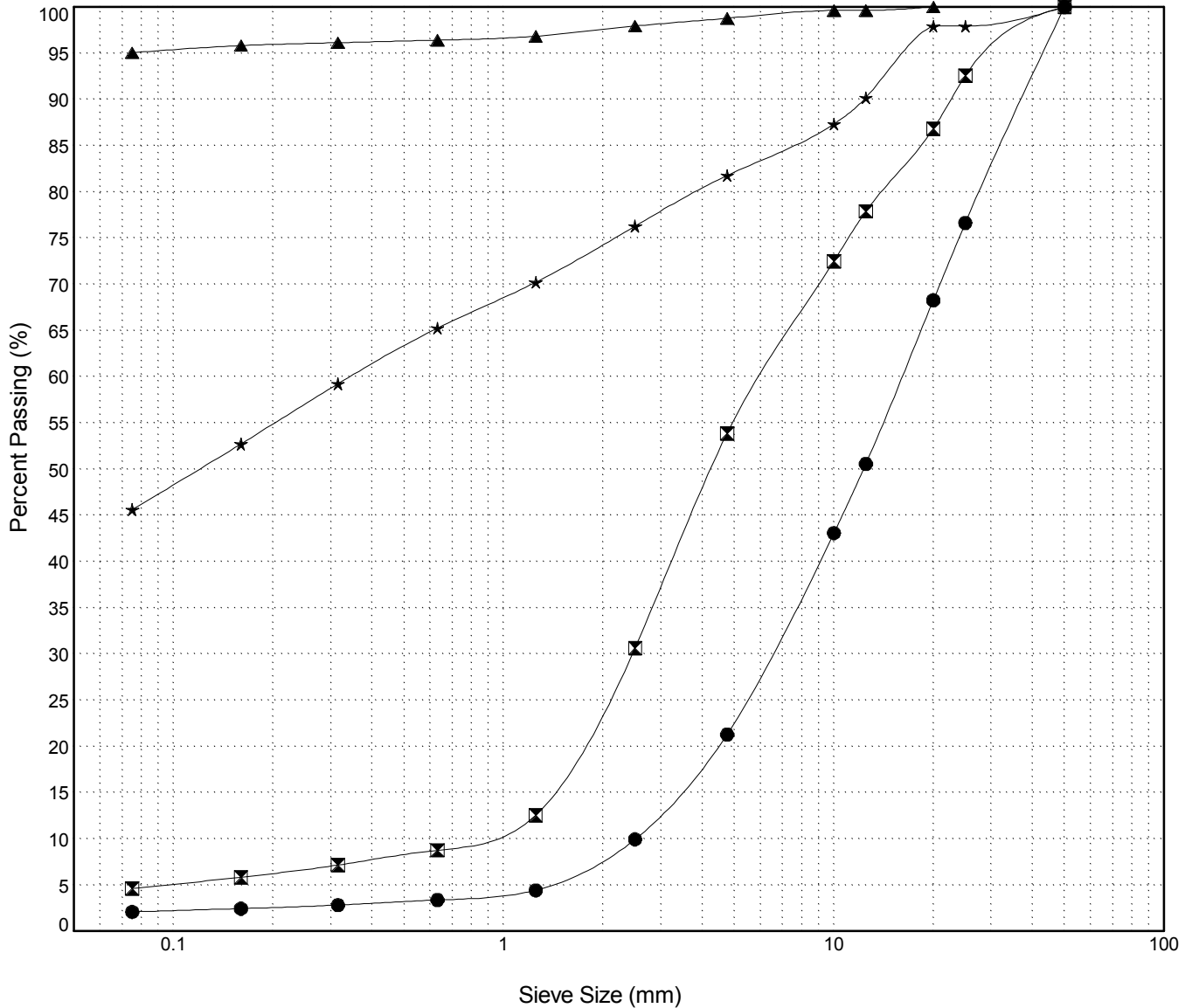
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4738
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719729.5m E490795.1m	ELEVATION: 788.6m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-074	1399	0.5 to 0.8	WELL-GRADED GRAVEL with SAND(GW)	2.7	NP	NP	NP	1.0	6.4
☒ 2-075	1400	1.9 to 2.2	WELL-GRADED SAND with GRAVEL(SW)	3.8	NP	NP	NP	1.2	7.7
▲ 2-076	1401	2.8 to 3.0	SILT(ML)	30.4	NP	NP	NP		
★ 2-077	1402	4.7 to 4.8	SILTY SAND with GRAVEL(SM)	10.2	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
● 2-074	1399	100.0	100.0	100.0	76.6	68.3	50.6	43.1	21.3	9.9	4.4	3.4	2.8	2.5	2.1	78.7	19.2	2.1	
☒ 2-075	1400	100.0	100.0	100.0	92.5	86.8	77.9	72.5	53.9	30.6	12.5	8.8	7.2	5.8	4.6	46.1	49.3	4.6	
▲ 2-076	1401	100.0	100.0	100.0	100.0	100.0	99.6	99.6	98.8	97.9	96.8	96.4	96.1	95.8	95.0	1.2	3.7	95.0	
★ 2-077	1402	100.0	100.0	100.0	97.9	97.9	90.2	87.3	81.8	76.3	70.2	65.2	59.2	52.7	45.6	18.2	36.1	45.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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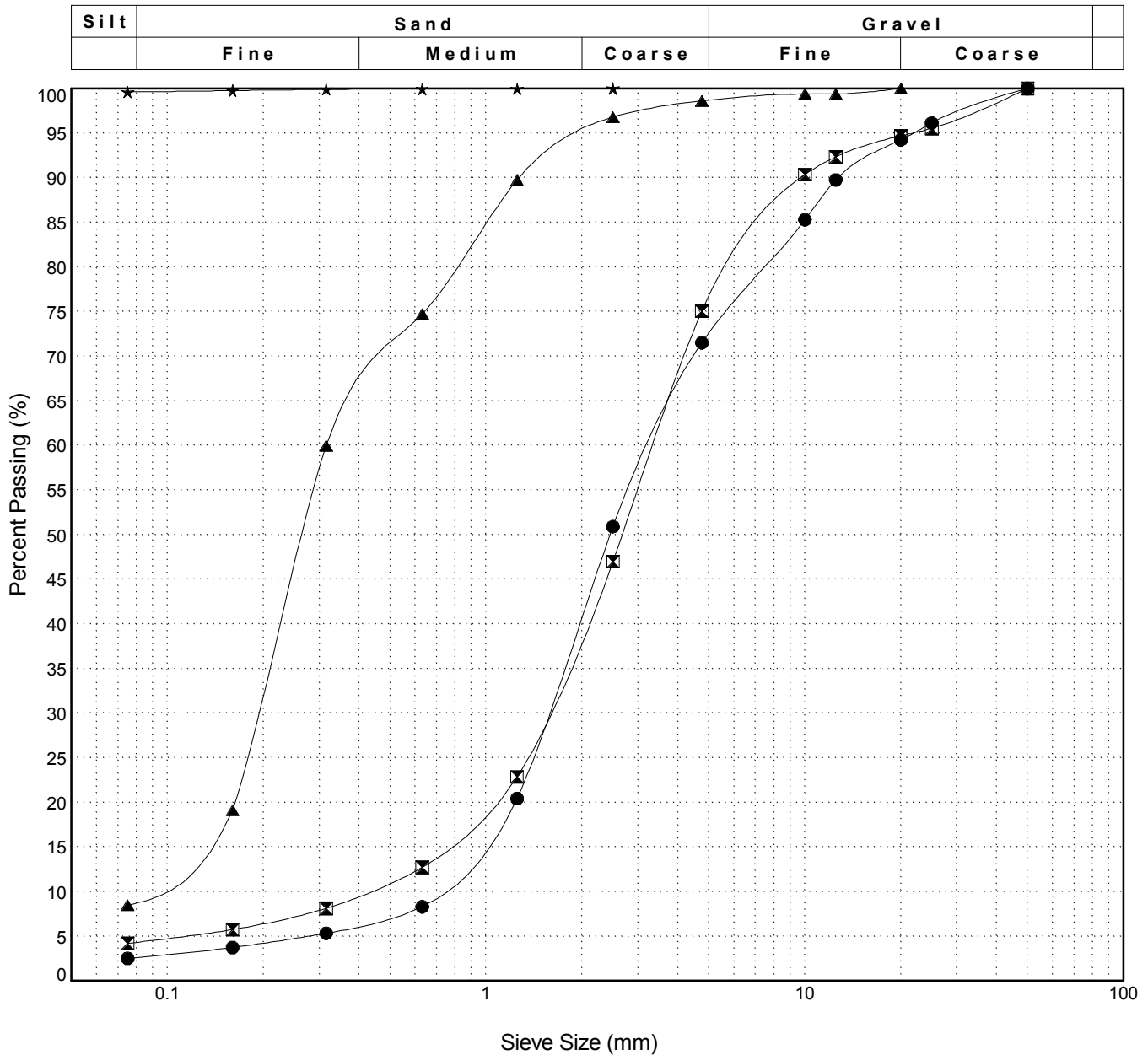
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4739
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719575.5m E490796.1m	ELEVATION: 785.3m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-079	1403	0.2 to 0.5	POORLY GRADED SAND with GRAVEL(SP)	4.7	NP	NP	NP	1.0	4.8
☒ 2-080	1404	1.5 to 1.7	WELL-GRADED SAND with GRAVEL(SW)	5.5	NP	NP	NP	1.7	8.1
▲ 2-081	1405	2.7 to 3.0	POORLY GRADED SAND with SILT(SP-SM)	13.0	NP	NP	NP	1.4	3.8
★ 2-082	1406	4.2 to 4.5	SILT(ML)	24.3	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	
● 2-079	1403	100.0	100.0	100.0	96.1	94.2	89.8	85.3	71.5	50.9	20.4	8.3	5.3	3.7	2.5	28.5	69.0	2.5	
☒ 2-080	1404	100.0	100.0	100.0	95.5	94.7	92.3	90.4	75.0	47.0	22.9	12.7	8.1	5.7	4.2	25.0	70.8	4.2	
▲ 2-081	1405	100.0	100.0	100.0	100.0	100.0	99.4	99.4	98.6	96.8	89.7	74.7	60.0	19.1	8.5	1.4	90.1	8.5	
★ 2-082	1406	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.8	99.6	0.0	0.4	99.6	



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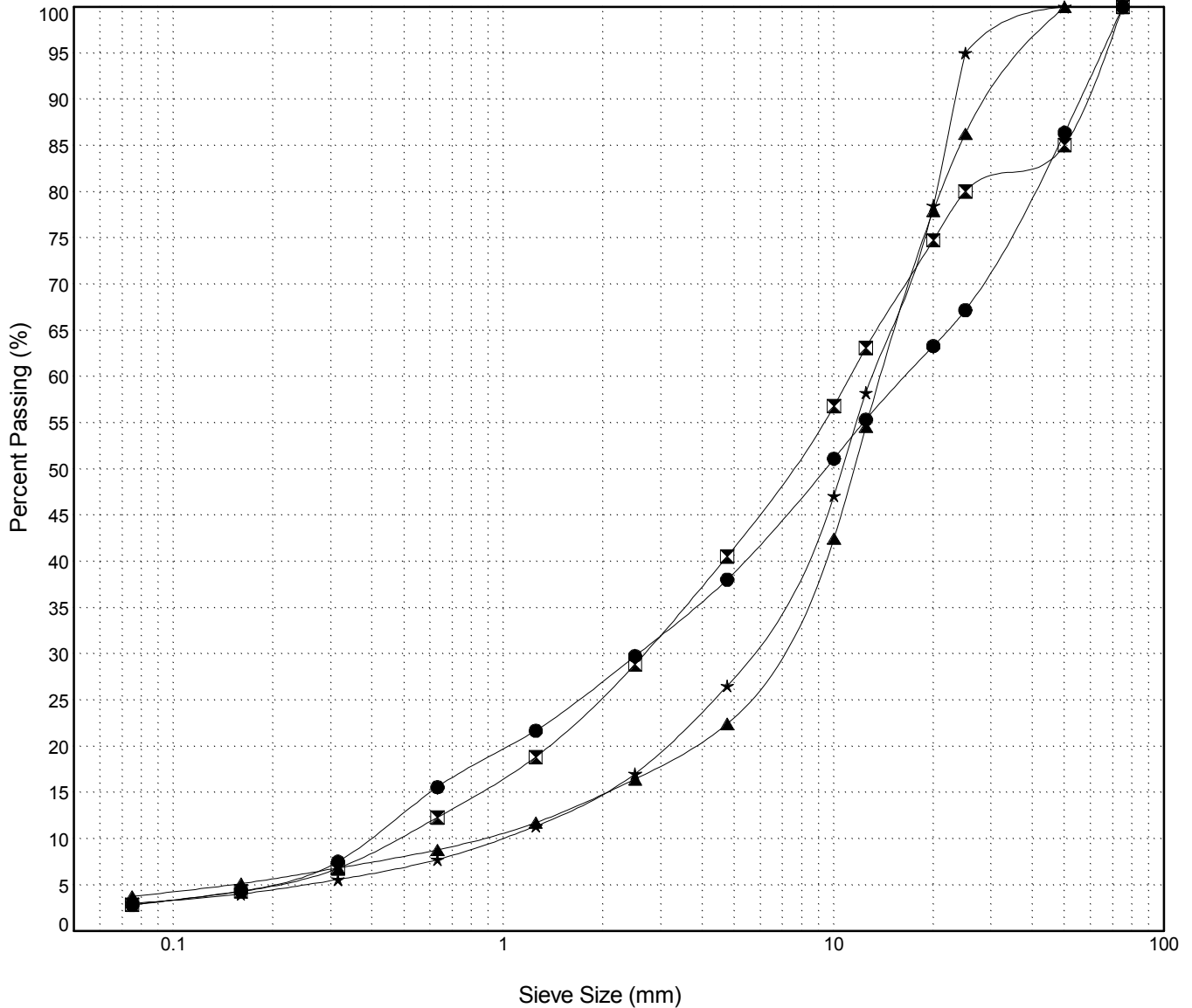
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4740
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719424.2m E490812.2m	ELEVATION: 782.8m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-083	1407	0.3 to 0.6	WELL-GRADED GRAVEL with SAND(GW)	3.8	NP	NP	NP	1.0	42.2
☒ 2-084	1408	2.2 to 2.5	WELL-GRADED GRAVEL with SAND(GW)	2.0	NP	NP	NP	1.3	23.8
▲ 2-085	1409	3.5 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	2.7	NP	NP	NP	3.4	16.8
★ 2-086	1410	4.5 to 4.7	WELL-GRADED GRAVEL with SAND(GW)	2.1	NP	NP	NP	2.3	13.5

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
● 2-083	1407	100.0	100.0	86.4	67.2	63.3	55.4	51.1	38.0	29.8	21.7	15.6	7.5	4.4	2.8	62.0	35.2	2.8	
☒ 2-084	1408	100.0	100.0	85.1	80.0	74.8	63.1	56.8	40.5	28.9	18.8	12.3	6.8	4.3	2.9	59.5	37.7	2.9	
▲ 2-085	1409	100.0	100.0	100.0	86.3	78.0	54.6	42.5	22.4	16.5	11.7	8.8	6.8	5.2	3.8	77.6	18.7	3.8	
★ 2-086	1410	100.0	100.0	100.0	95.0	78.5	58.3	47.1	26.5	17.0	11.4	7.8	5.6	4.0	3.0	73.5	23.5	3.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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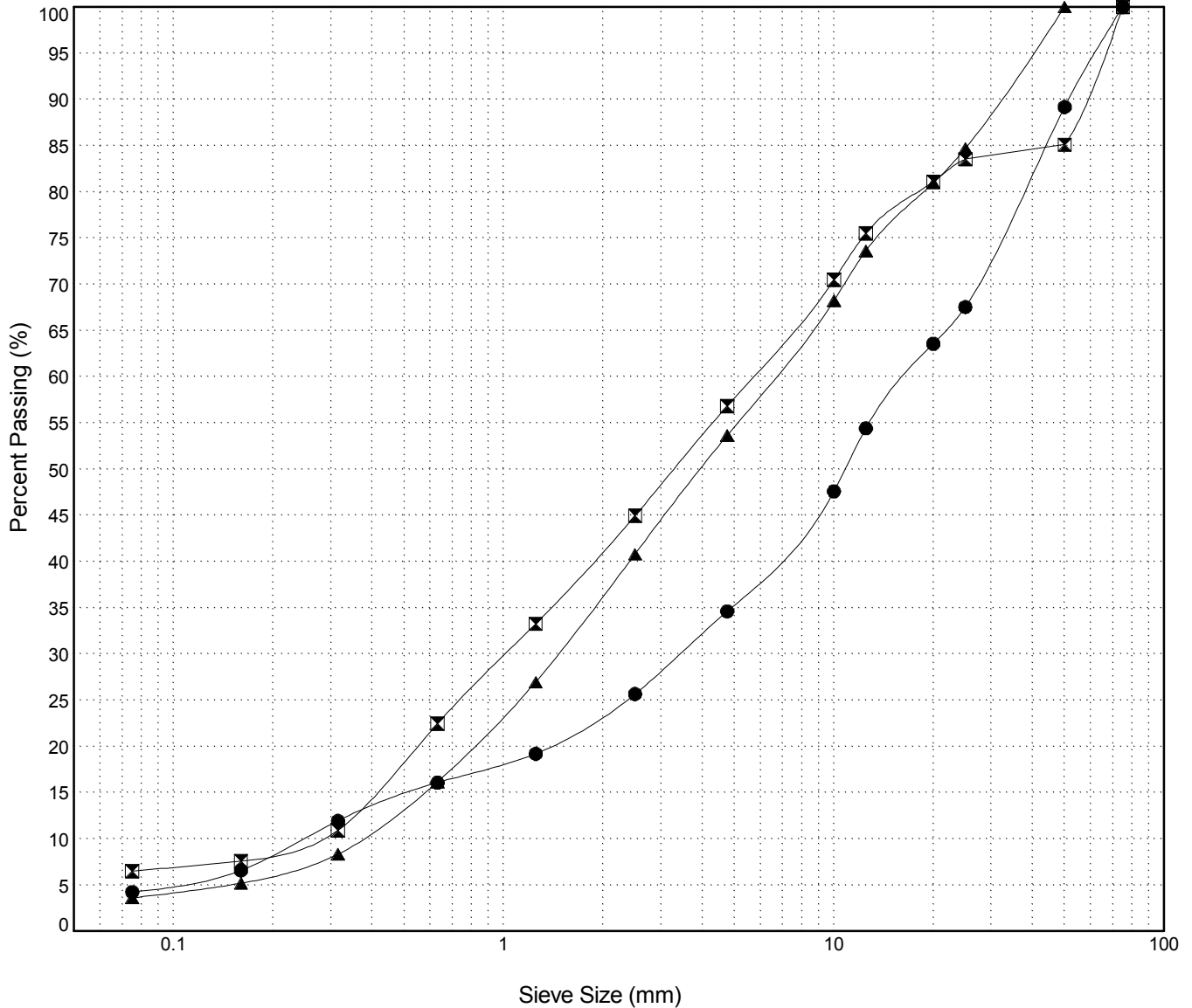
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4743
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719971.7m E491372.3m	ELEVATION: 723.4m

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Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-092	1416	0.6 to 0.9	WELL-GRADED GRAVEL with SAND(GW)	3.9	NP	NP	NP	2.8	67.6
☒ 2-093	1418	2.3 to 2.6	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	3.9	NP	NP	NP	0.7	21.6
▲ 2-094	1421	3.5 to 3.7	POORLY GRADED SAND with GRAVEL(SP)	3.3	NP	NP	NP	0.9	18.0

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
● 2-092	1416	100.0	100.0	89.2	67.5	63.6	54.4	47.6	34.6	25.7	19.2	16.1	11.9	6.6	4.2	65.4	30.4	4.2	
☒ 2-093	1418	100.0	100.0	85.1	83.5	81.1	75.5	70.5	56.8	44.9	33.3	22.4	10.9	7.6	6.5	43.2	50.3	6.5	
▲ 2-094	1421	100.0	100.0	100.0	84.7	80.9	73.6	68.2	53.6	40.8	27.0	16.1	8.3	5.2	3.6	46.4	50.0	3.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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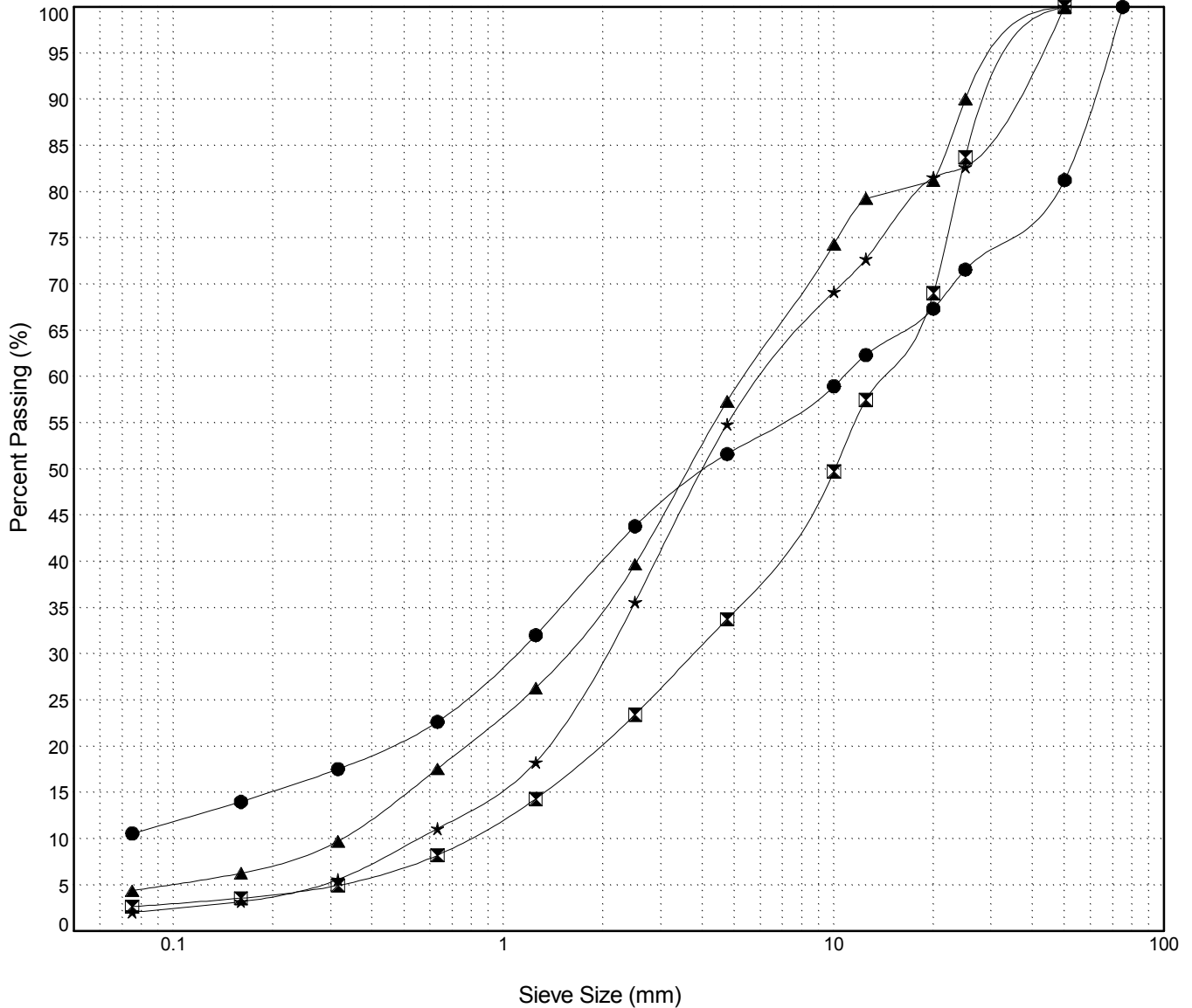
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4744
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720069.8m E491426.8m	ELEVATION: 726.7m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-095	1419	0.4 to 0.6	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	7.3	NP	NP	NP	1.6	162.5
☒ 2-096	1420	1.2 to 1.6	WELL-GRADED GRAVEL with SAND(GW)	3.4	NP	NP	NP	1.3	18.0
▲ 2-097	1422	3.0 to 3.3	WELL-GRADED SAND with GRAVEL(SW)	2.6	NP	NP	NP	1.3	16.6
★ 2-098	1424	4.0 to 4.2	WELL-GRADED SAND with GRAVEL(SW)	2.2	NP	NP	NP	1.2	11.3

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
● 2-095	1419	100.0	100.0	81.3	71.6	67.4	62.3	59.0	51.6	43.8	32.0	22.7	17.5	14.0	10.6	48.4	41.0	10.6	
☒ 2-096	1420	100.0	100.0	100.0	83.7	69.0	57.5	49.7	33.8	23.4	14.3	8.2	5.0	3.6	2.7	66.2	31.1	2.7	
▲ 2-097	1422	100.0	100.0	100.0	90.0	81.2	79.3	74.3	57.3	39.7	26.3	17.6	9.7	6.3	4.4	42.7	52.9	4.4	
★ 2-098	1424	100.0	100.0	100.0	82.7	81.6	72.7	69.2	54.9	35.6	18.3	11.1	5.6	3.2	2.1	45.1	52.8	2.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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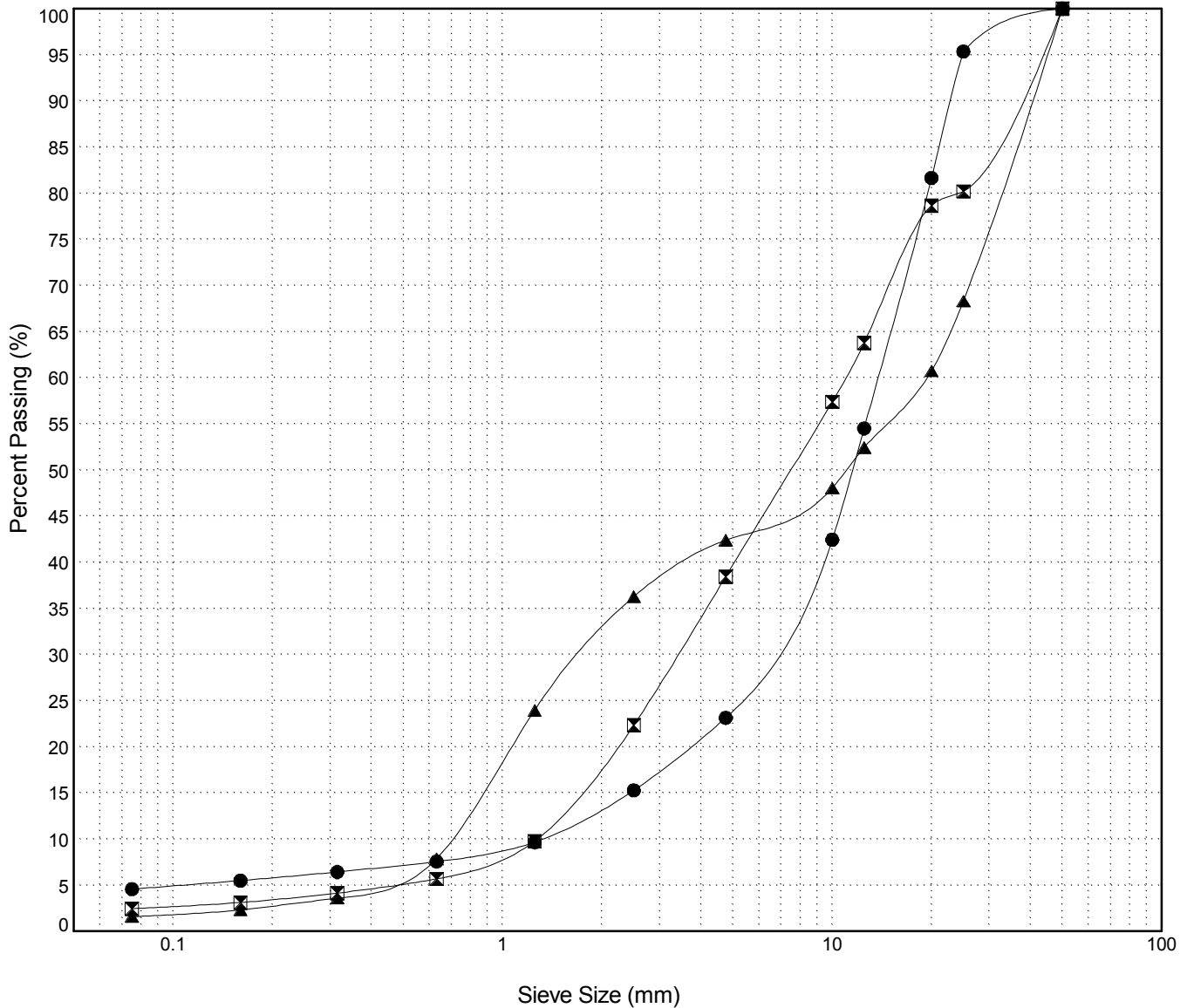
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4745
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720152.1m E491426.3m	ELEVATION: 729.5m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-099	1423	0.5 to 0.8	WELL-GRADED GRAVEL with SAND(GW)	4.6	NP	NP	NP	2.1	10.5
☒ 2-100	1426	1.5 to 1.8	POORLY GRADED GRAVEL with SAND(GP)	2.9	NP	NP	NP	0.8	8.7
▲ 2-101	1425	2.9 to 3.2	POORLY GRADED GRAVEL with SAND(GP)	2.1	NP	NP	NP	0.2	27.8

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
● 2-099	1423	100.0	100.0	100.0	100.0	95.4	81.6	54.5	42.5	23.1	15.3	9.7	7.6	6.4	5.5	4.6	76.9	18.6	4.6
☒ 2-100	1426	100.0	100.0	100.0	80.2	78.6	63.8	57.4	38.4	22.3	9.8	5.7	4.2	3.1	2.5	61.6	36.0	2.5	
▲ 2-101	1425	100.0	100.0	100.0	68.3	60.7	52.4	48.1	42.4	36.3	24.0	7.9	3.6	2.3	1.6	57.6	40.8	1.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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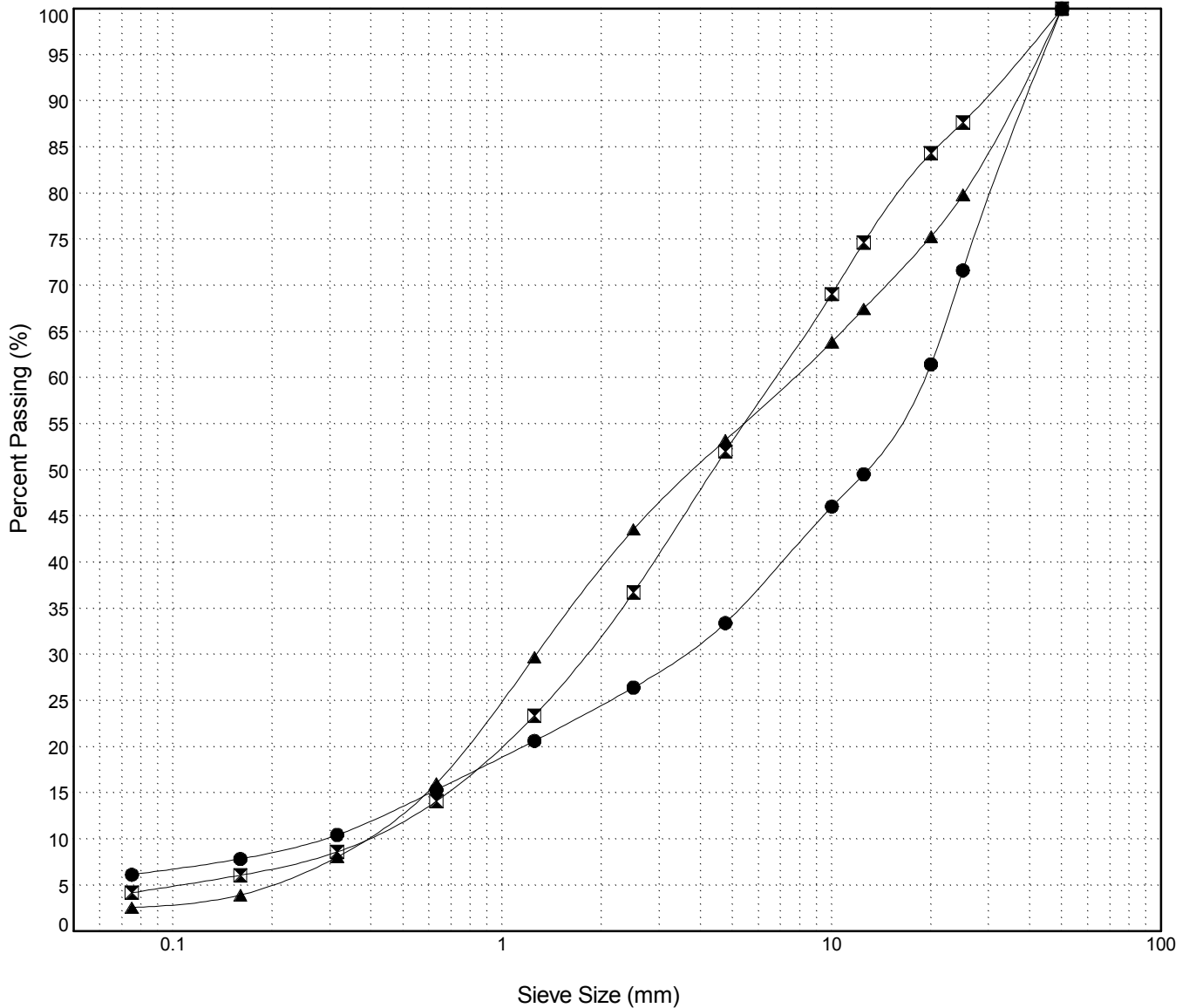
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4747
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720116.6m E491300.7m	ELEVATION: 731.2m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-104	1428	0.6 to 0.9	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	5.8	NP	NP	NP	2.3	67.6
☒ 2-105	1430	1.9 to 2.3	WELL-GRADED GRAVEL with SAND(GW)	4.8	NP	NP	NP	1.2	17.9
▲ 2-106	1431	3.2 to 3.5	POORLY GRADED SAND with GRAVEL(SP)	3.4	NP	NP	NP	0.6	20.4

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
● 2-104	1428	100.0	100.0	100.0	100.0	71.6	61.4	49.5	46.0	33.4	26.4	20.6	15.3	10.5	7.9	6.1	66.6	27.3	6.1
☒ 2-105	1430	100.0	100.0	100.0	87.7	84.3	74.6	69.1	52.0	36.7	23.4	14.1	8.6	6.1	4.2	48.0	47.8	4.2	
▲ 2-106	1431	100.0	100.0	100.0	79.8	75.3	67.5	63.9	53.2	43.6	29.7	16.0	8.1	3.9	2.6	46.8	50.7	2.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
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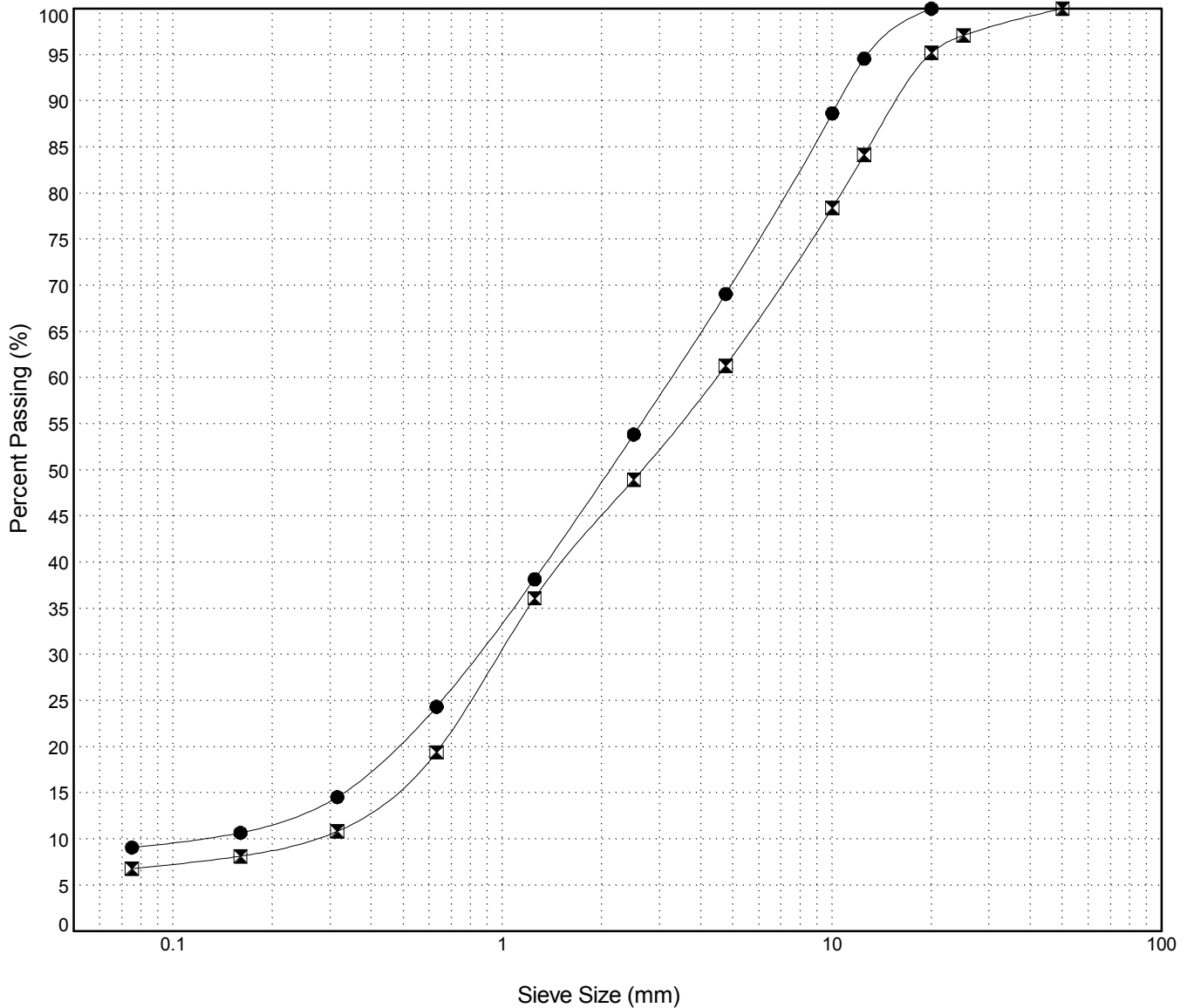
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4748
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720052.6m E491298.1m	ELEVATION: 737.7m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 2-107	1432	0.4 to 0.8	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	7.4	NP	NP	NP	1.9	28.0											
☒ 2-108	1433	1.9 to 2.2	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	5.6	NP	NP	NP	0.8	17.4											
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														
● 2-107	1432	100.0	100.0	100.0	100.0	100.0	94.6	88.7	69.1	53.9	38.2	24.3	14.6	10.7	9.1	30.9	60.0	9.1		
☒ 2-108	1433	100.0	100.0	100.0	97.1	95.2	84.1	78.4	61.3	49.0	36.1	19.4	10.8	8.2	6.8	38.7	54.5	6.8		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
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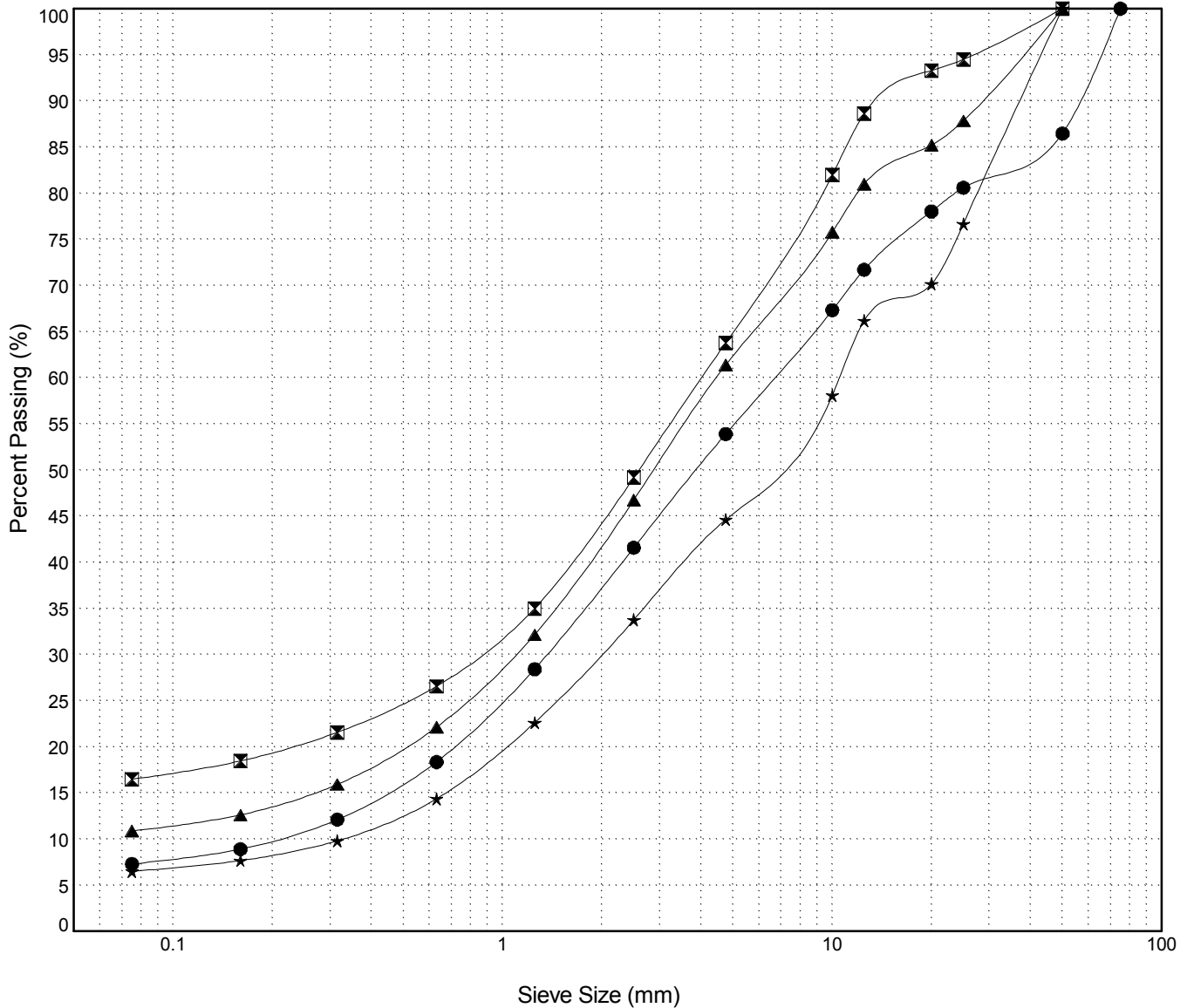
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4749
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720052.6m E491348.6m	ELEVATION: 738.6m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-109	1435	0.7 to 1.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	4.8	NP	NP	NP	1.4	33.1
☒ 2-110	1434	1.5 to 1.8	SILTY SAND with GRAVEL(SM)	6.7	NP	NP	NP		
▲ 2-111	1436	3.2 to 3.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	4.6	NP	NP	NP	5.1	87.5
★ 2-112	1437	4.3 to 4.6	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	3.9	NP	NP	NP	1.1	32.5

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
● 2-109	1435	100.0	100.0	86.5	80.6	78.0	71.7	67.3	53.9	41.6	28.4	18.4	12.1	8.9	7.3	46.1	46.6	7.3
☒ 2-110	1434	100.0	100.0	100.0	94.5	93.3	88.6	82.0	63.8	49.2	35.0	26.6	21.6	18.5	16.5	36.2	47.3	16.5
▲ 2-111	1436	100.0	100.0	100.0	87.8	85.2	81.0	75.8	61.4	46.7	32.1	22.1	15.9	12.6	10.9	38.6	50.5	10.9
★ 2-112	1437	100.0	100.0	100.0	76.7	70.2	66.2	58.1	44.6	33.8	22.6	14.4	9.8	7.7	6.5	55.4	38.1	6.5

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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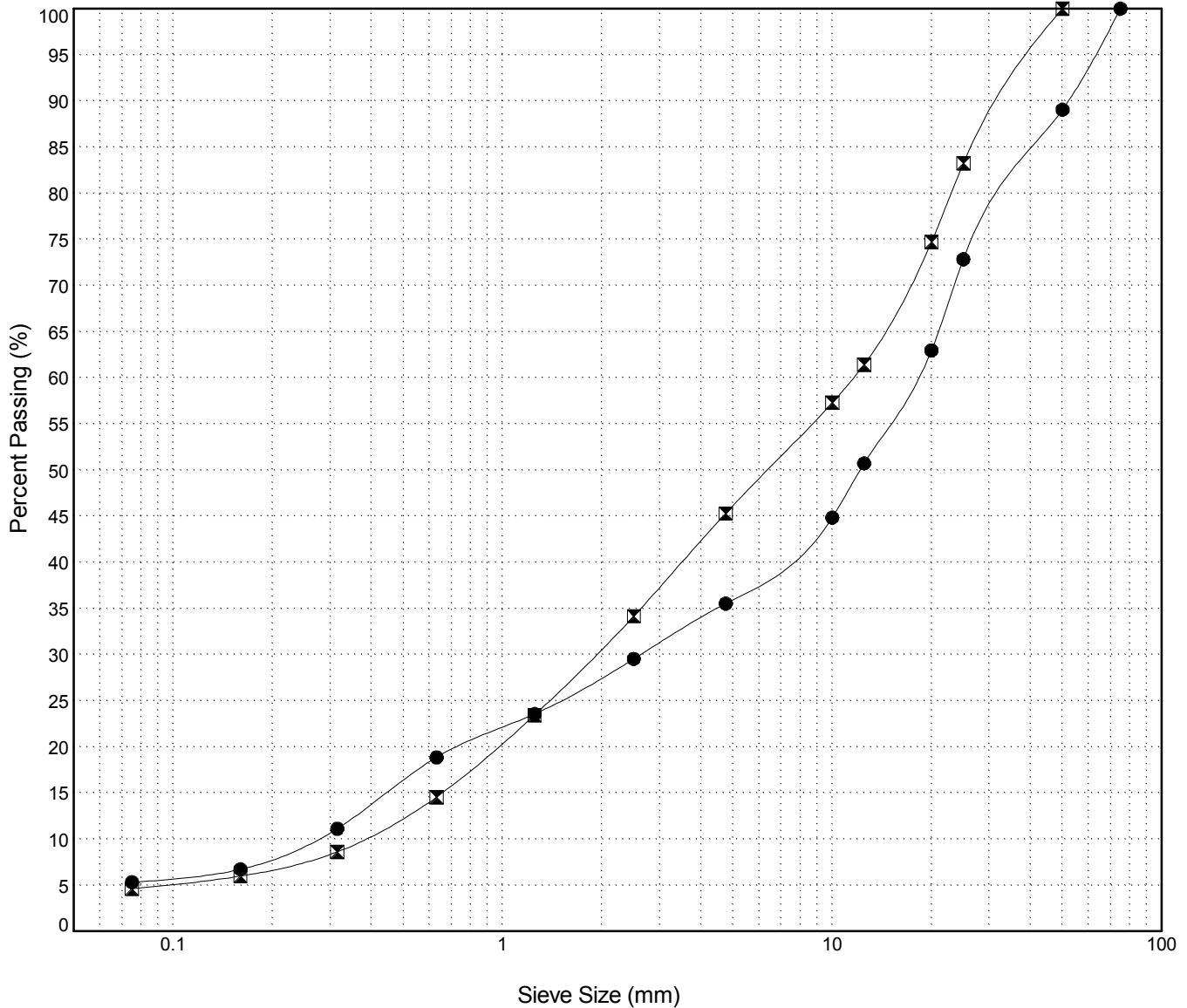
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4750
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719984.9m E491290.8m	ELEVATION: 684.2m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 2-114	1439	0.6 to 0.9	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	4.6	NP	NP	NP	1.5	67.4											
☒ 2-115	1438	1.6 to 1.9	POORLY GRADED GRAVEL with SAND(GP)	4.4	NP	NP	NP	0.9	31.2											
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				
● 2-114	1439	100.0	100.0	89.0	72.8	63.0	50.7	44.8	35.5	29.5	23.6	18.9	11.1	6.7	5.3	Gravel	Sand	Silt	Clay	
☒ 2-115	1438	100.0	100.0	100.0	83.2	74.7	61.4	57.3	45.3	34.2	23.4	14.5	8.6	6.0	4.6	64.5	30.2	5.3		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 820-4751
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720266.3m E491424m	ELEVATION: 673.8m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-116	1440	0.6 to 0.9	POORLY GRADED GRAVEL with SAND(GP)	3.6	NP	NP	NP	0.6	28.5
☒ 2-117	1441	2.1 to 2.4	POORLY GRADED SAND with GRAVEL(SP)	3.5	NP	NP	NP	0.6	5.9
▲ 2-118	1442	3.4 to 3.7	POORLY GRADED SAND with GRAVEL(SP)	4.1	NP	NP	NP	0.4	11.5
★ 2-119	1445	4.4 to 4.7	POORLY GRADED SAND with GRAVEL(SP)	3.6	NP	NP	NP	0.2	20.3

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
● 2-116	1440	100.0	100.0	100.0	100.0	92.8	86.2	72.1	67.6	49.4	38.7	31.7	25.0	12.7	3.6	1.9	50.6	47.5	1.9
☒ 2-117	1441	100.0	100.0	100.0	88.1	88.1	84.2	81.9	75.0	69.3	62.3	51.5	28.2	5.2	2.6	25.0	72.5	2.6	
▲ 2-118	1442	100.0	100.0	100.0	92.8	88.3	80.8	76.5	67.8	60.7	52.6	40.1	19.4	4.9	2.7	32.2	65.2	2.7	
★ 2-119	1445	100.0	100.0	100.0	86.2	80.9	76.1	73.8	64.0	55.5	48.6	41.2	26.7	7.7	2.1	36.0	61.9	2.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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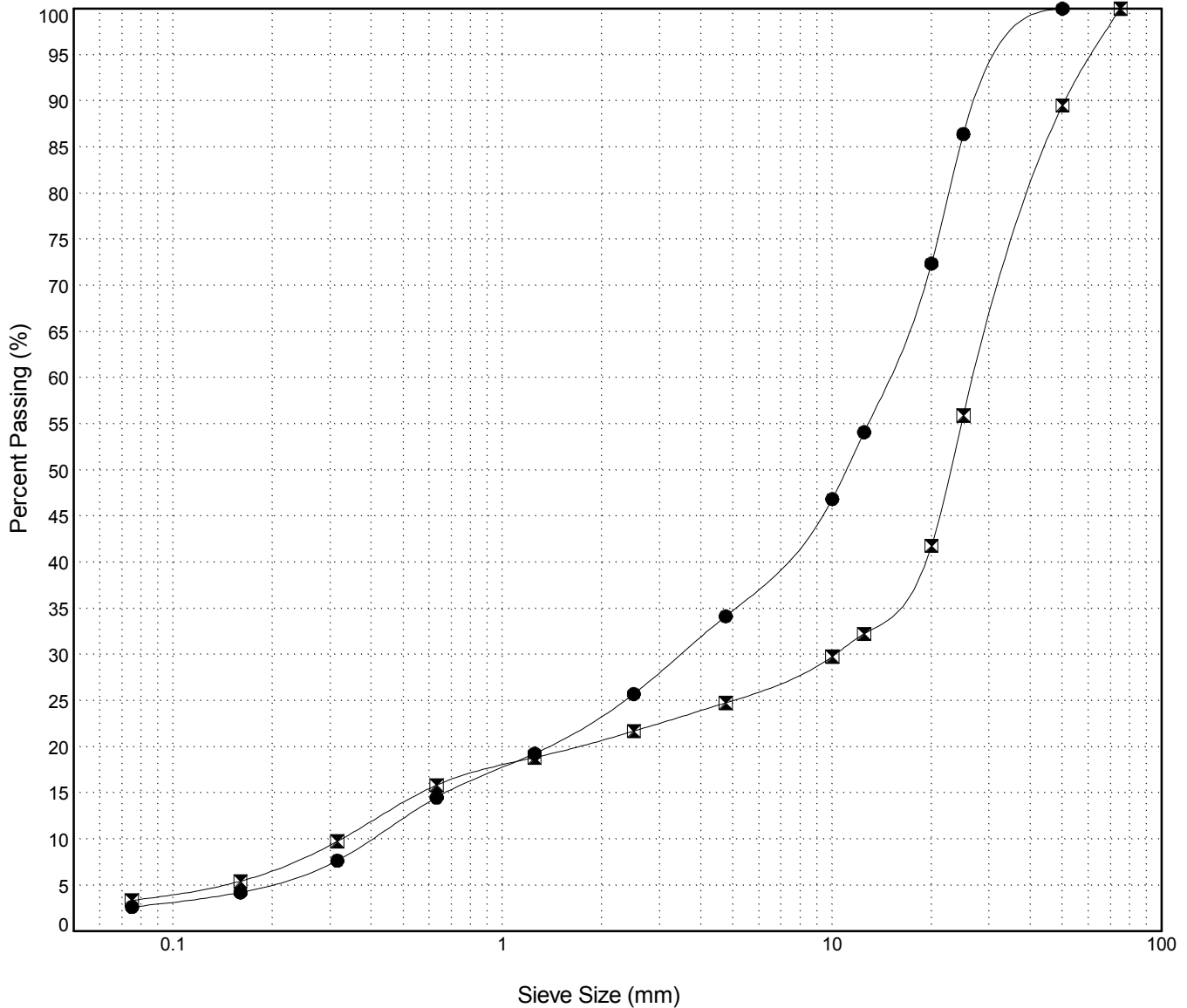
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4752
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720322.7m E491352.9m	ELEVATION: 670.6m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 2-120	1443	0.7 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	4.0	NP	NP	NP	2.1	36.5											
☒ 2-121	1444	2.2 to 2.5	POORLY GRADED GRAVEL with SAND(GP)	2.0	NP	NP	NP	11.8	83.9											
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				
● 2-120	1443	100.0	100.0	100.0	86.4	72.4	54.1	46.9	34.2	25.7	19.3	14.5	7.7	4.2	2.6	Gravel	Sand	Silt	Clay	
☒ 2-121	1444	100.0	100.0	89.5	55.9	41.8	32.2	29.8	24.8	21.7	18.8	15.8	9.7	5.4	3.4	75.2	21.4	3.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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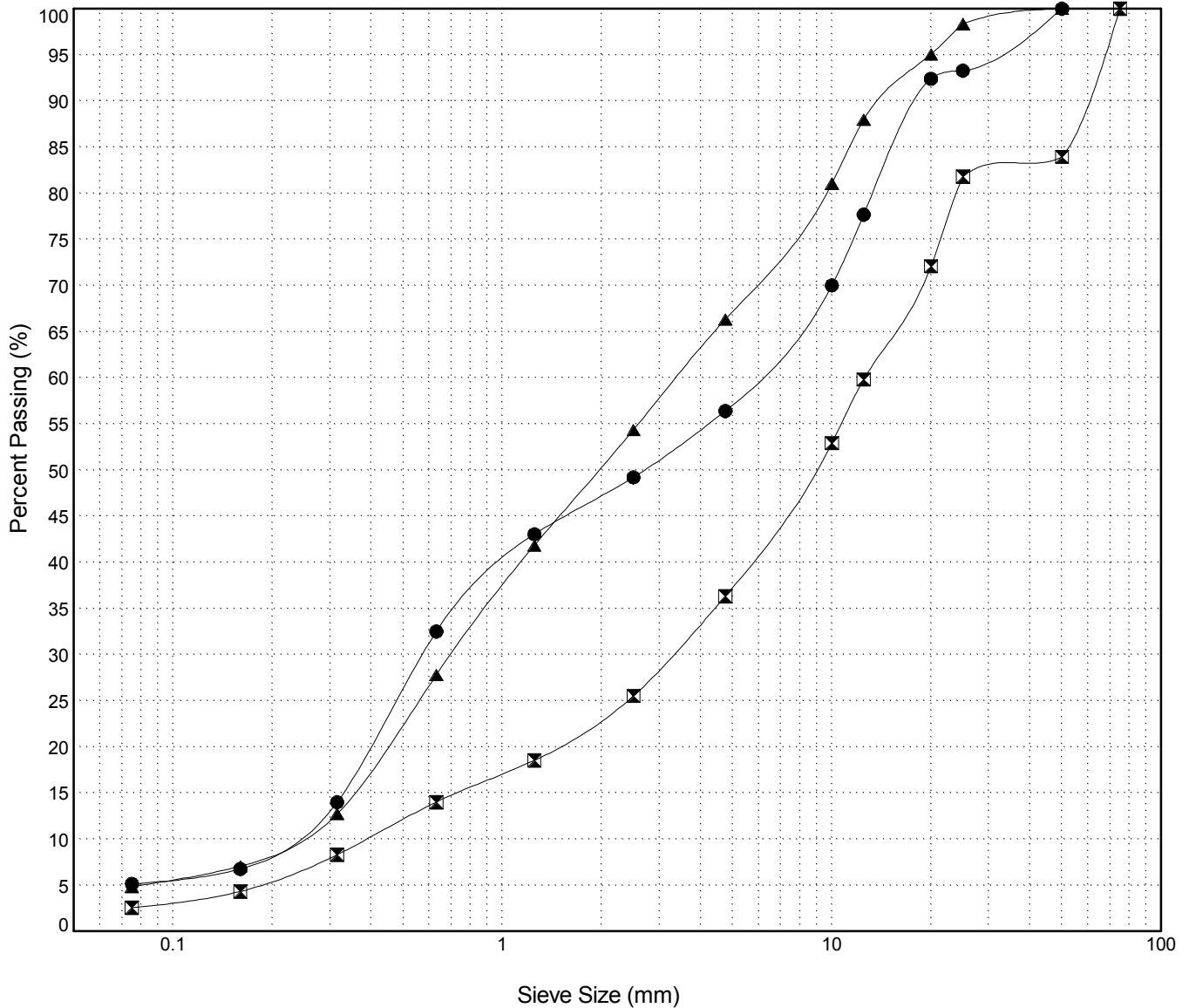
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4753
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720376.2m E491312.4m	ELEVATION: 662.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-122	1446	0.6 to 0.9	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	5.7	NP	NP	NP	0.3	26.7
☒ 2-123	1447	1.7 to 2.0	WELL-GRADED GRAVEL with SAND(GW)	3.4	NP	NP	NP	2.2	32.6
▲ 2-124	1448	3.5 to 3.8	POORLY GRADED SAND with GRAVEL(SP)	4.7	NP	NP	NP	0.6	14.9

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
● 2-122	1446	100.0	100.0	100.0	93.3	92.4	77.7	70.0	56.4	49.2	43.0	32.5	14.0	6.8	5.2	43.6	51.2	5.2
☒ 2-123	1447	100.0	100.0	83.9	81.8	72.1	59.8	52.9	36.3	25.5	18.5	14.0	8.3	4.3	2.6	63.7	33.7	2.6
▲ 2-124	1448	100.0	100.0	100.0	98.3	95.1	87.9	81.0	66.3	54.4	41.8	27.8	12.7	7.1	4.8	33.7	61.5	4.8

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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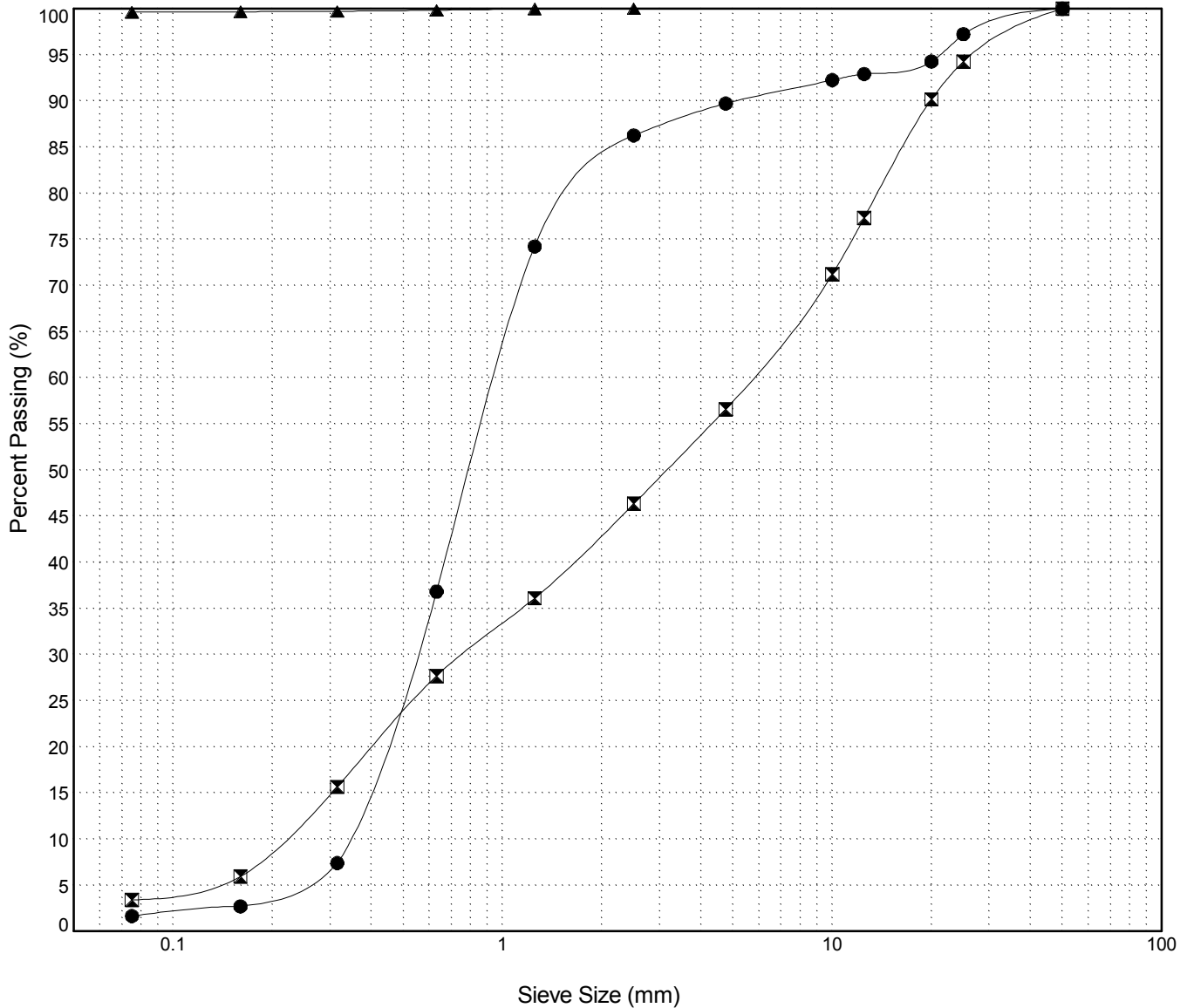
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J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720315.4m E491269.7m	ELEVATION: 663.9m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-125	1449	0.6 to 0.9	POORLY GRADED SAND(SP)	4.7	NP	NP	NP	0.9	2.9
☒ 2-126	1450	1.7 to 1.9	POORLY GRADED SAND with GRAVEL(SP)	3.0	NP	NP	NP	0.5	26.6
▲ 2-127	1451	2.3 to 2.5	SILT(ML)	29.1	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	
● 2-125	1449	100.0	100.0	100.0	97.2	94.3	92.9	92.3	89.7	86.3	74.2	36.8	7.4	2.7	1.7	10.3	88.0	1.7		
☒ 2-126	1450	100.0	100.0	100.0	94.3	90.2	77.3	71.2	56.6	46.3	36.1	27.7	15.7	6.0	3.4	43.4	53.2	3.4		
▲ 2-127	1451	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.7	99.7	99.6	0.0	0.4	99.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

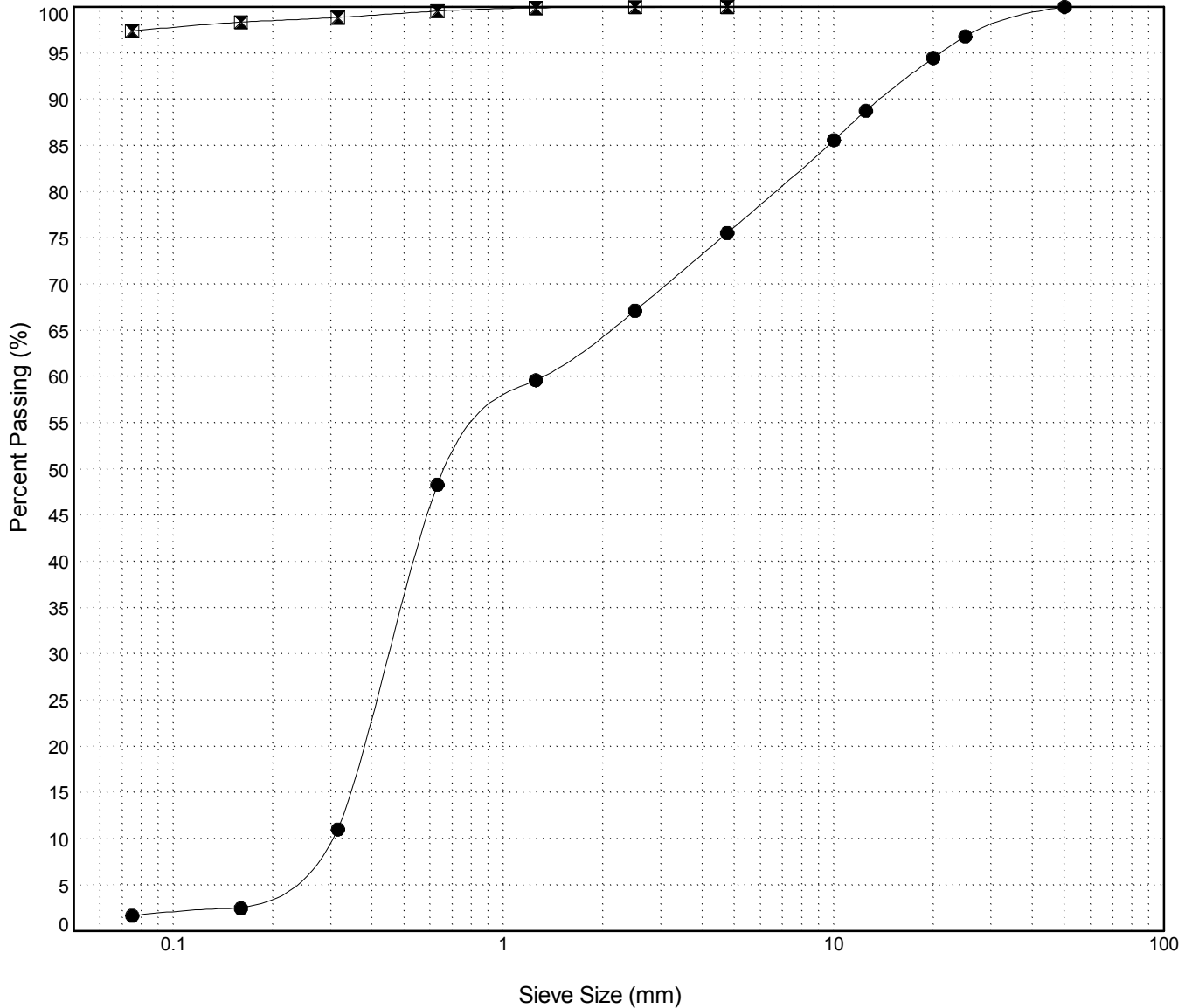


GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4755
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720228.4m E491288.5m	ELEVATION: 660m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 2-128	1452	0.5 to 0.8	POORLY GRADED SAND with GRAVEL(SP)	4.1	NP	NP	NP	0.5	4.5											
☒ 2-129	1453	1.5 to 1.7	SILT(ML)	26.7	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				
● 2-128	1452	100.0	100.0	100.0	96.8	94.5	88.8	85.6	75.5	67.1	59.6	48.3	11.0	2.5	1.7	Gravel	Sand	Silt	Clay	
☒ 2-129	1453	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	98.9	98.3	97.4	0.0	2.6	97.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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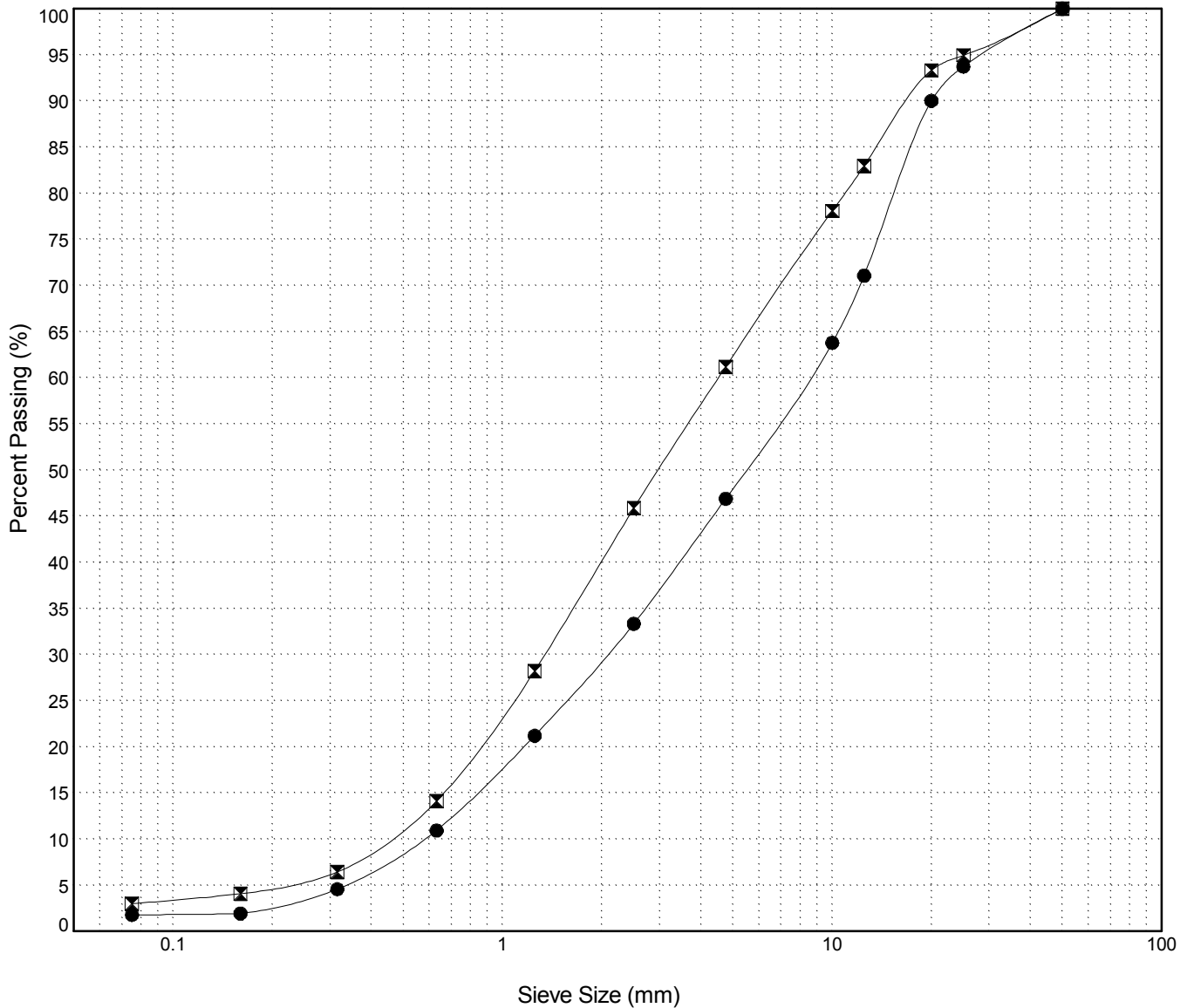
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4756
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6720172m E491293.3m	ELEVATION: 713.5m

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Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 2-130	1454	0.5 to 0.8	POORLY GRADED GRAVEL with SAND(GP)	3.4	NP	NP	NP	0.9	14.9											
☒ 2-131	1455	1.7 to 2.0	POORLY GRADED SAND with GRAVEL(SP)	4.2	NP	NP	NP	0.9	10.4											
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				
● 2-130	1454	100.0	100.0	100.0	93.7	90.0	71.1	63.8	46.9	33.3	21.2	10.9	4.6	1.9	1.8	Gravel	Sand	Silt	Clay	
☒ 2-131	1455	100.0	100.0	100.0	94.9	93.3	82.9	78.1	61.2	45.9	28.2	14.1	6.4	4.1	3.0	38.8	58.2	3.0		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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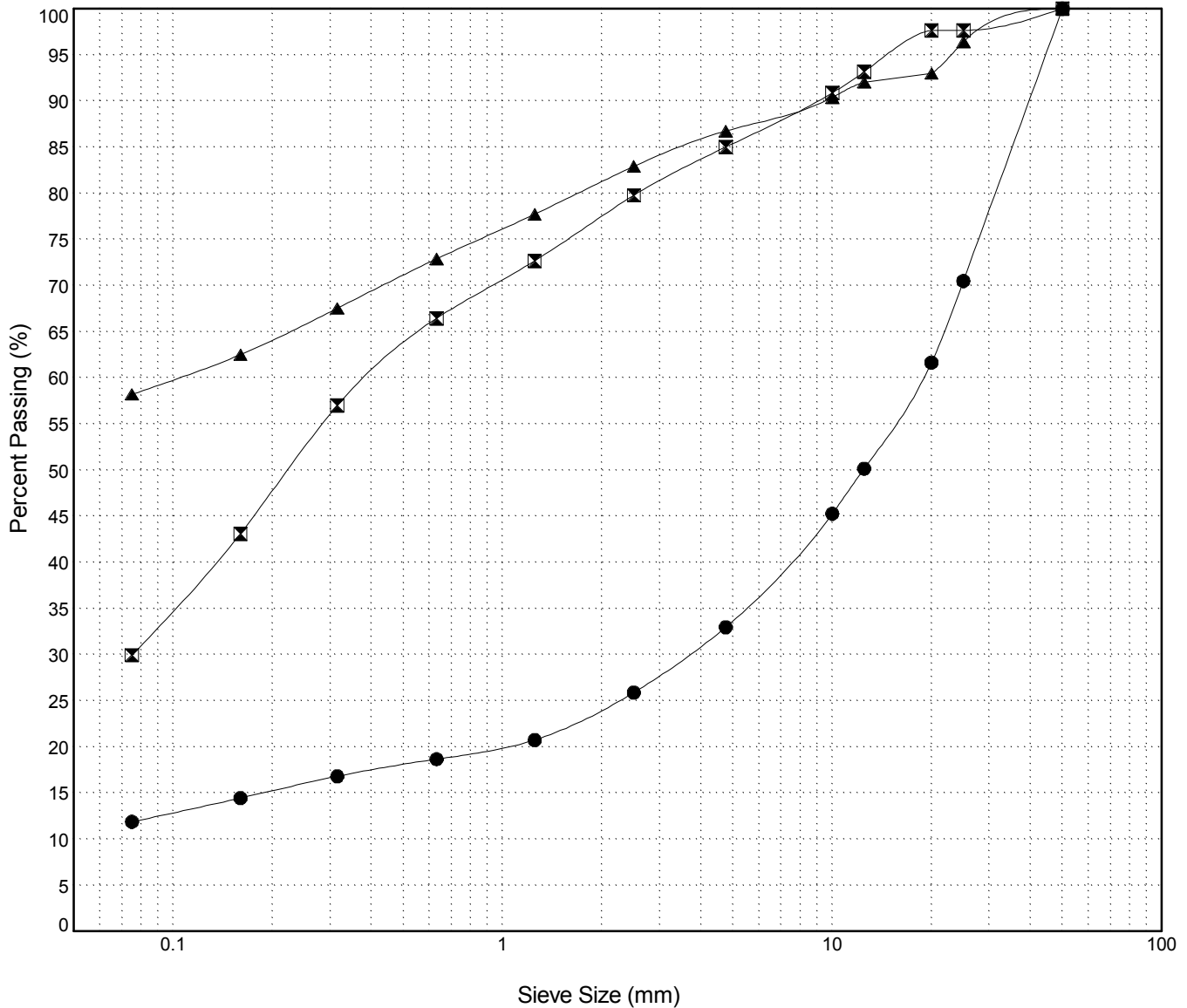
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4757
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719928.6m E490859.1m	ELEVATION: 707.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-132	1456	0.5 to 0.8	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	6.4	NP	NP	NP	16.3	433.2
☒ 2-133	1457	1.5 to 1.8	SILTY SAND with GRAVEL(SM)	12.1	NP	NP	NP		
▲ 2-134	1458	2.6 to 2.9	SANDY SILT(ML)	11.2	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
● 2-132	1456	100.0	100.0	100.0	100.0	70.5	61.6	50.1	45.3	33.0	25.9	20.7	18.7	16.8	14.4	11.9	67.0	21.1	11.9	
☒ 2-133	1457	100.0	100.0	100.0	97.7	97.7	93.2	90.9	85.0	79.8	72.6	66.4	57.0	43.1	29.9	15.0	55.1	29.9		
▲ 2-134	1458	100.0	100.0	100.0	96.4	93.0	92.0	90.4	86.7	82.9	77.7	72.9	67.5	62.5	58.2	13.3	28.5	58.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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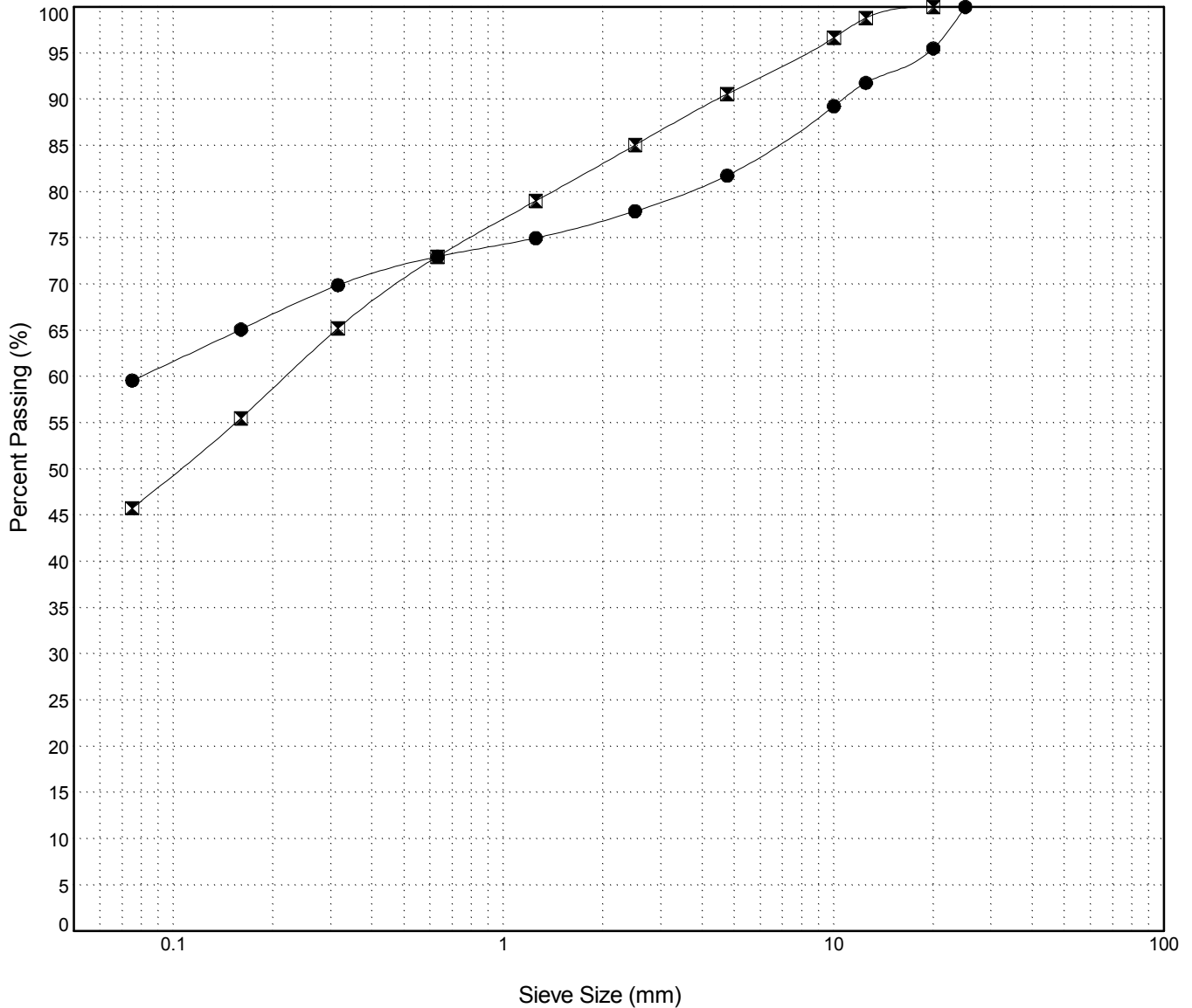
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4758
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719917.4m E490947.9m	ELEVATION: 703.2m

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Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu										
● 2-135	1459	0.4 to 0.7	SANDY SILT with GRAVEL(ML)	15.7	NP	NP	NP												
☒ 2-136	1460	1.4 to 1.6	SILTY SAND(SM)	10.4	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			
● 2-135	1459	100.0	100.0	100.0	100.0	95.5	91.8	89.3	81.8	77.9	75.0	73.0	69.9	65.1	59.6	Gravel	Sand	Silt	Clay
☒ 2-136	1460	100.0	100.0	100.0	100.0	100.0	98.8	96.7	90.6	85.0	79.0	73.0	65.2	55.5	45.8	9.4	44.8	45.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

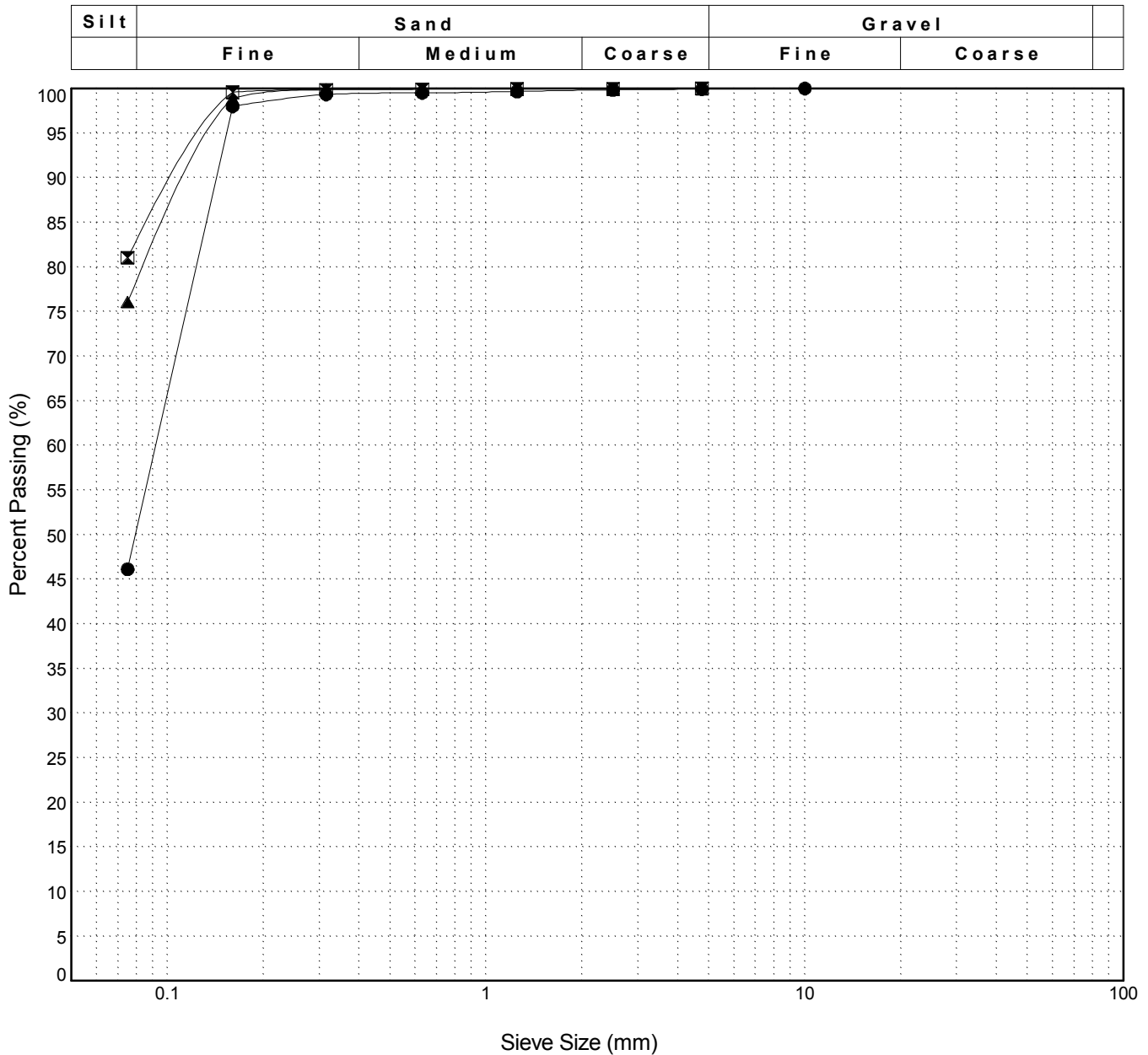


GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4759
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719825.6m E491064.4m	ELEVATION: 650.3m

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Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-137	1461	0.5 to 0.8	SILTY SAND(SM)	6.1	NP	NP	NP		
☒ 2-138	1462	2.3 to 2.7	SILT with SAND(ML)	10.3	NP	NP	NP		
▲ 2-139	1463	4.3 to 4.6	SILT with SAND(ML)	24.4	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
● 2-137	1461	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	99.5	99.3	98.0	46.1	0.1	53.8	46.1	
☒ 2-138	1462	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.9	99.6	81.0	0.0	19.0	81.0	
▲ 2-139	1463	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.9	76.1	0.0	23.9	76.1	

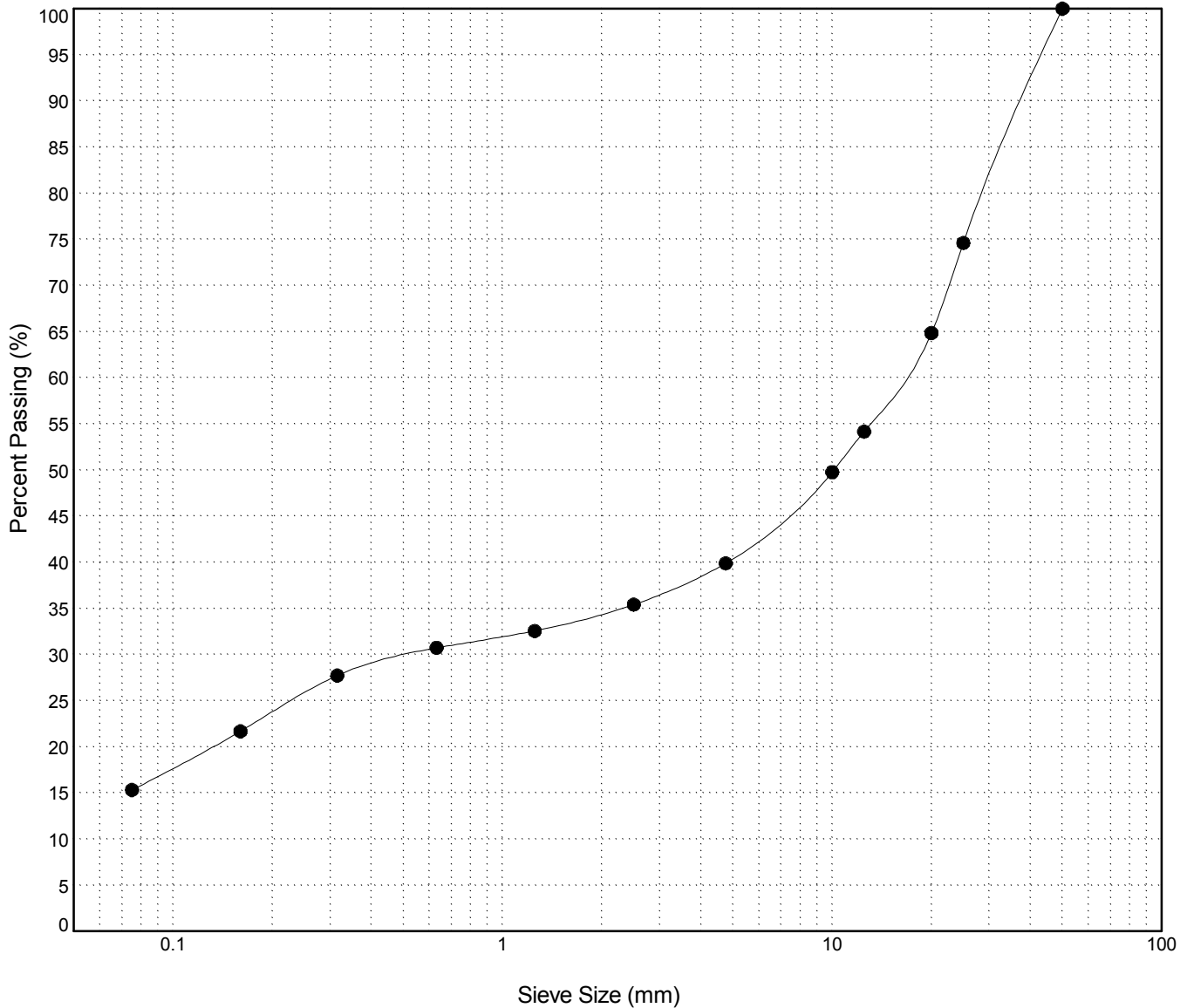


GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4760
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719905.1m E491148.4m	ELEVATION: 646.3m

Master Revised July 2013

Field #	Lab #	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu	
● 2-140	1464	0.5 to 0.8	SILTY GRAVEL with SAND(GM)											7.6	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				
● 2-140	1464	100.0	100.0	100.0	74.6	64.8	54.2	49.8	39.9	35.4	32.6	30.7	27.7	21.7	15.3	Gravel	Sand	Silt	Clay	
																60.1	24.6	15.3		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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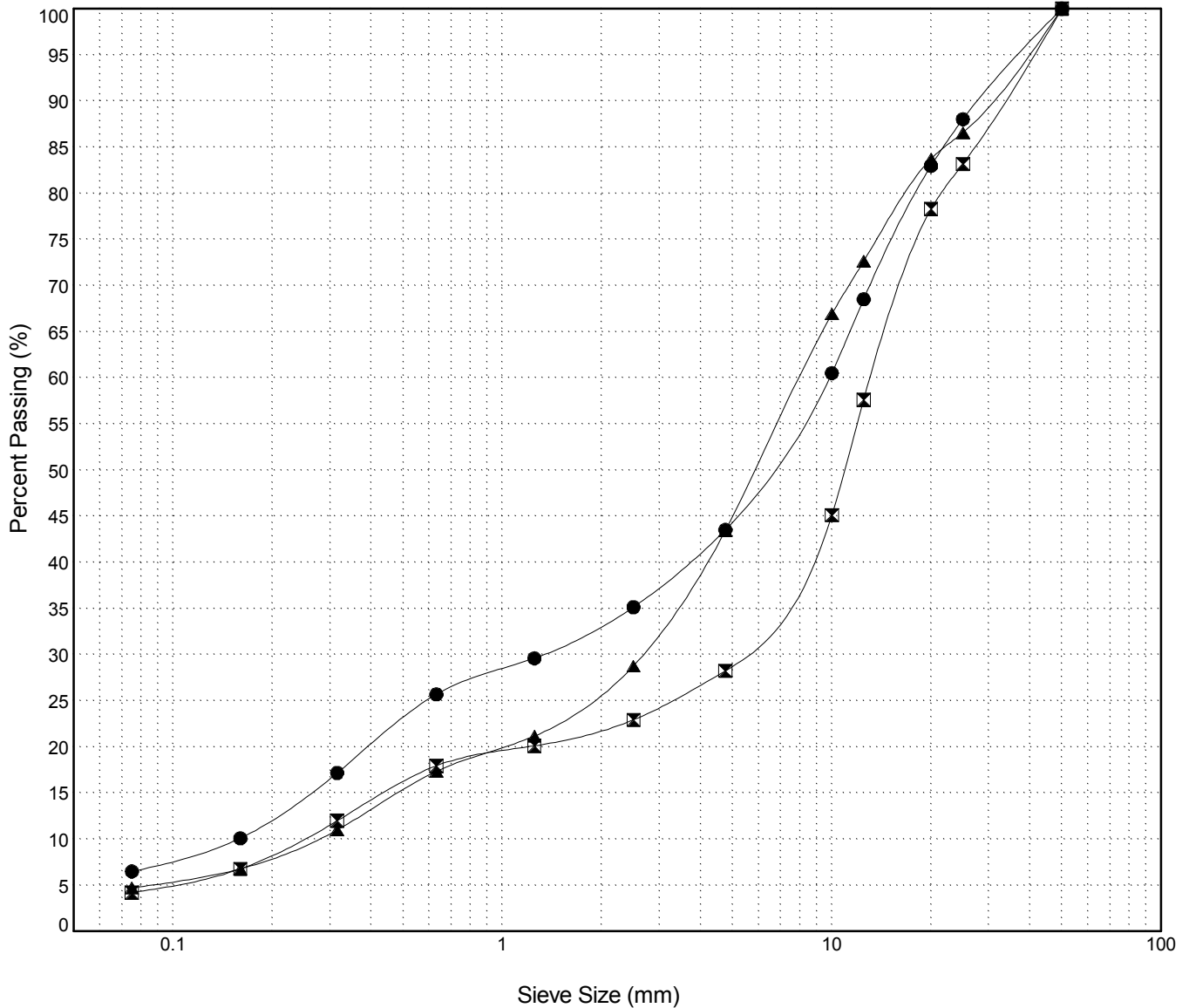
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J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719919.6m E491060.1m	ELEVATION: 644.1m

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Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-141	1465	0.4 to 0.7	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	4.5	NP	NP	NP	1.1	62.3
☒ 2-142	1466	1.4 to 1.7	POORLY GRADED GRAVEL with SAND(GP)	2.8	NP	NP	NP	8.2	54.2
▲ 2-143	1467	3.2 to 3.5	POORLY GRADED GRAVEL with SAND(GP)	3.1	NP	NP	NP	3.2	29.9

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	Silt
● 2-141	1465	100.0	100.0	100.0	100.0	88.0	83.0	68.5	60.5	43.5	35.1	29.6	25.7	17.2	10.1	6.5	56.5	37.0	6.5
☒ 2-142	1466	100.0	100.0	100.0	83.2	78.3	57.6	45.1	28.2	22.9	20.1	17.9	12.0	6.8	4.2	71.8	24.0	4.2	
▲ 2-143	1467	100.0	100.0	100.0	86.5	83.7	72.6	66.9	43.4	28.8	21.2	17.3	11.0	6.8	4.7	56.6	38.7	4.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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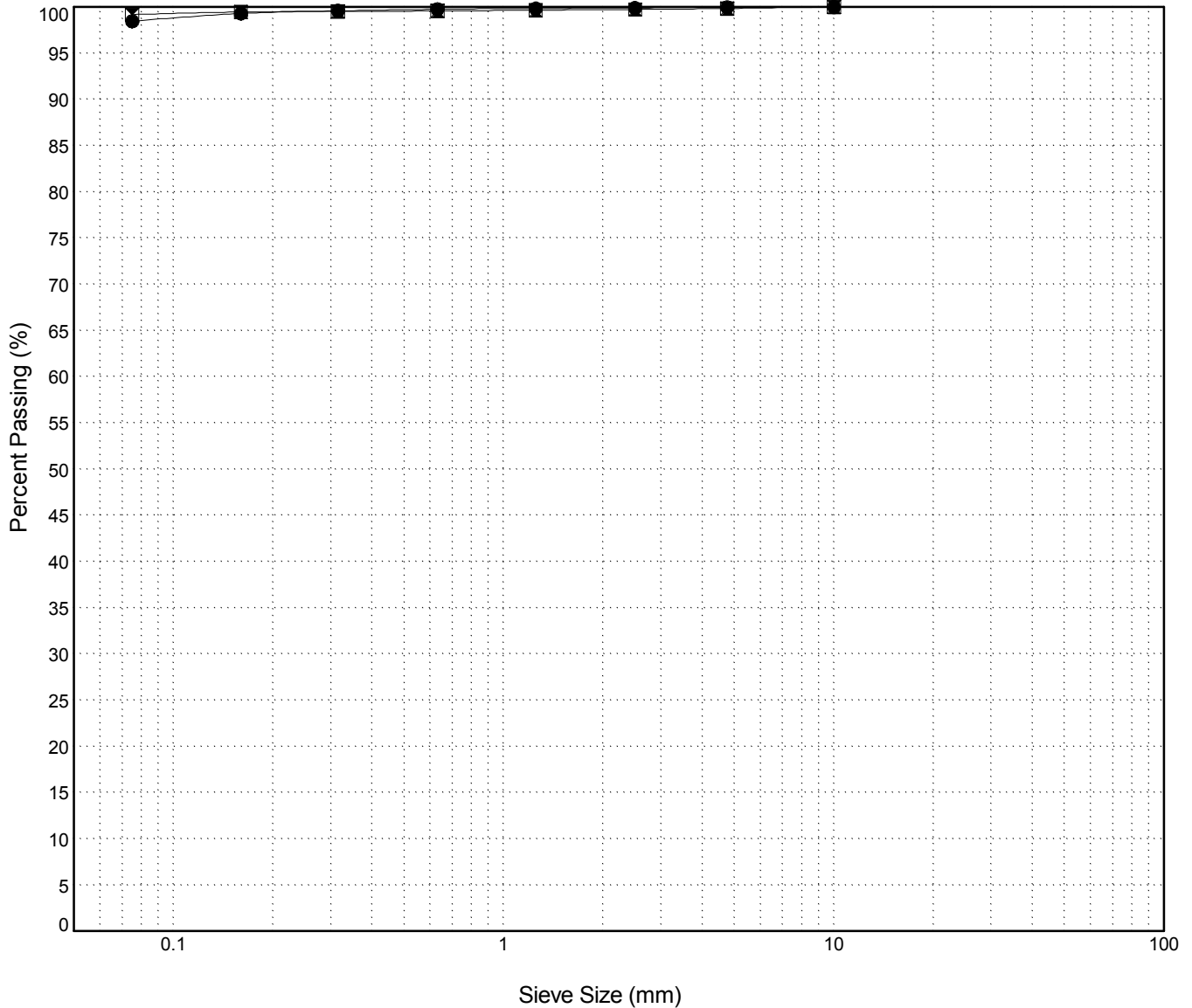
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4762
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719716.9m E490997.1m	ELEVATION: 637.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu	
● 2-144	1468	0.4 to 0.7	SILT(ML)											25.7	NP	NP	NP			
☒ 2-145	1469	1.4 to 1.7	SILT(ML)											26.1	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														
● 2-144	1468	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	99.6	99.3	98.4	0.0	1.5	98.4	
☒ 2-145	1469	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.7	99.6	99.6	99.5	99.4	99.2	0.2	0.7	99.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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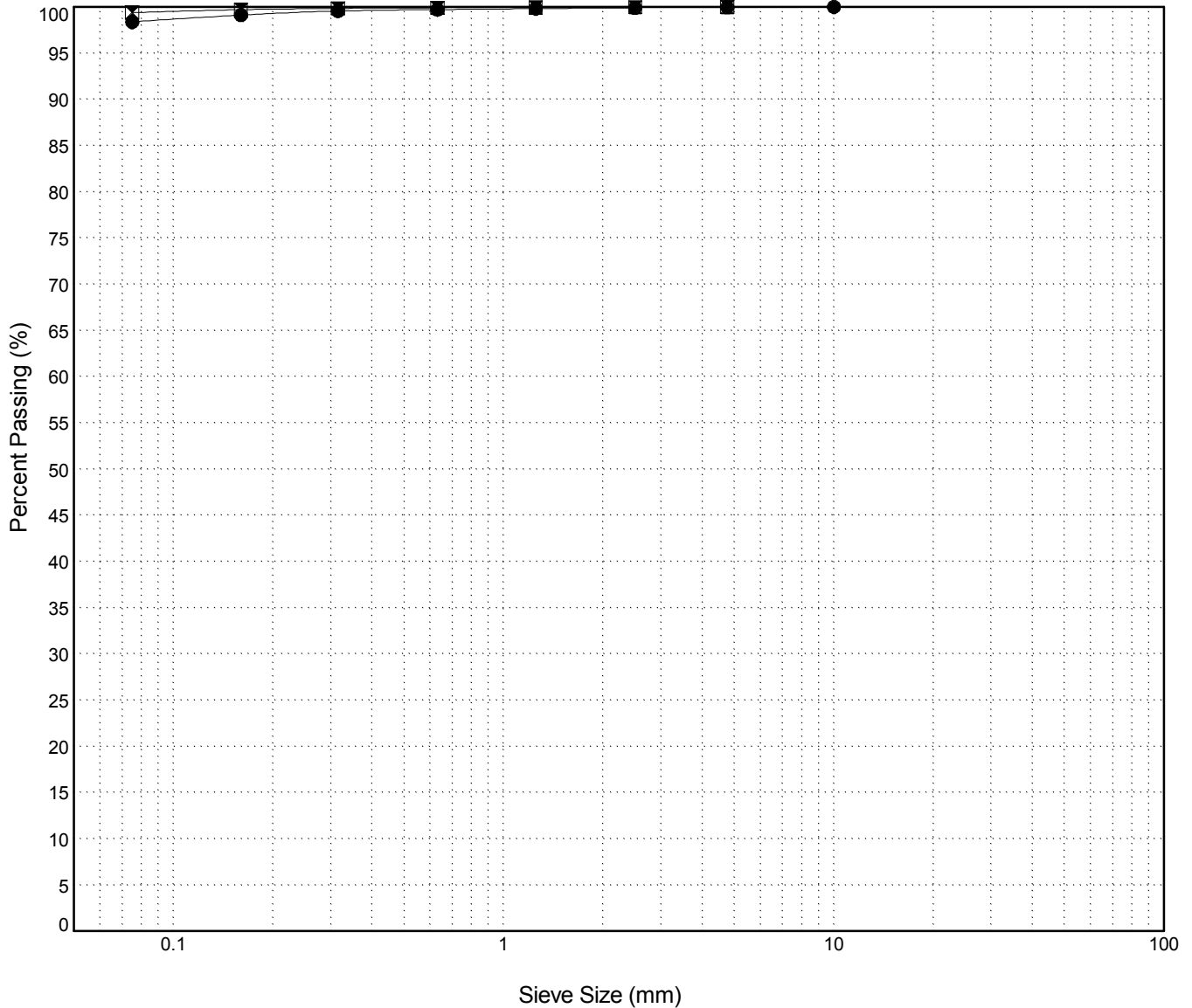
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GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4763
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719573.9m E490997.8m	ELEVATION: 632.5m

Master Revised July 2013

Field #	Lab #	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu	
● 2-146	1470	0.3 to 0.6	SILT(ML)											25.7	NP	NP	NP			
☒ 2-147	1471	1.2 to 1.5	SILT(ML)											37.3	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
● 2-146	1470		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	99.6	99.1	98.4	0.0	1.6	98.4	
☒ 2-147	1471		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.8	99.7	99.4	0.0	0.6	99.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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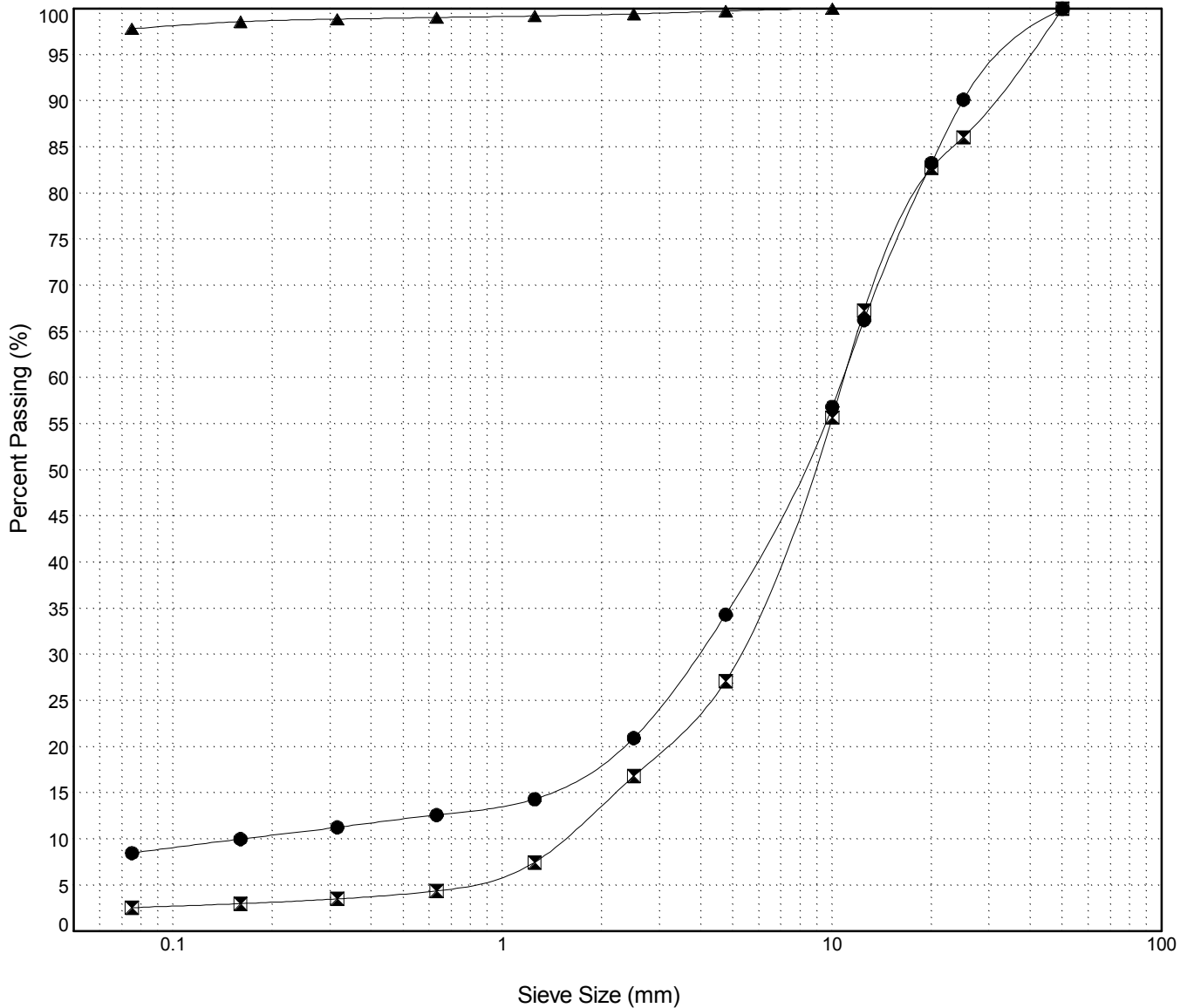
GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4764
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719817.6m E490801.8m	ELEVATION: 626m

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Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 2-148	1472	0.4 to 0.8	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	4.9	NP	NP	NP	8.6	67.4
☒ 2-149	1473	2.2 to 2.6	WELL-GRADED GRAVEL with SAND(GW)	2.3	NP	NP	NP	1.6	7.2
▲ 2-150	1474	2.8 to 3.1	SILT(ML)	28.1	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
● 2-148	1472	100.0	100.0	100.0	100.0	90.1	83.3	66.3	56.8	34.3	21.0	14.3	12.6	11.3	10.0	8.5	65.7	25.8	8.5
☒ 2-149	1473	100.0	100.0	100.0	86.1	82.7	67.3	55.7	27.1	16.8	7.5	4.4	3.5	3.0	2.6	72.9	24.6	2.6	
▲ 2-150	1474	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.4	99.2	99.0	98.9	98.6	97.8	0.3	1.9	97.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

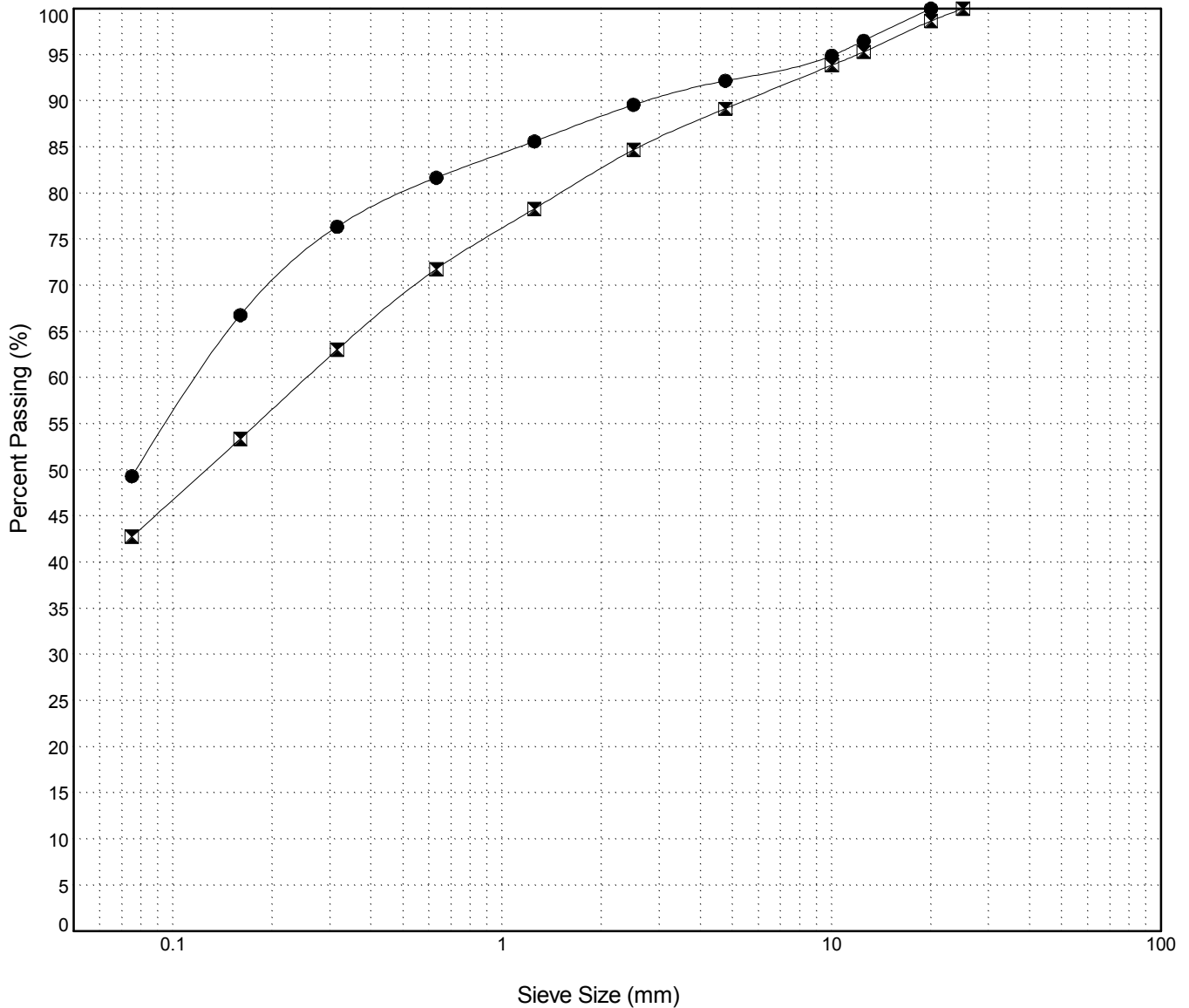


GRAIN SIZE ANALYSIS	Campbell hwy Gravel Search km 70-90	SOURCE/TP#: 821-4765
J.Magun	km 73.2 RHS	PROJECT NO: 552-202104-2035-0661-5
Hitachi 200 LC	Coordinates:Z9 N6719847.6m E490868m	ELEVATION: 623.6m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 2-151	1475	0.5 to 0.8	SILTY SAND(SM)	10.7	NP	NP	NP													
☒ 2-152	1476	1.2 to 1.4	SILTY SAND(SM)	9.8	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				
● 2-151	1475	100.0	100.0	100.0	100.0	100.0	96.5	94.9	92.2	89.6	85.6	81.7	76.4	66.8	49.3	Gravel	Sand	Silt	Clay	
☒ 2-152	1476	100.0	100.0	100.0	100.0	98.7	95.3	93.9	89.1	84.7	78.3	71.8	63.0	53.4	42.8	10.9	46.4	42.8		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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