

APPENDIX C

SUMMARY OF PREVIOUS LABORATORY TEST DATA

Table 1 – Geotechnical Testing Summary									
Station	Depth	USCS	% Moist.	-3"	+ 4#	-200	Liquid Limit	Plasticity Index	R-Value
20	1-2	SM	8.4	100	11	17.6	---	NP	60
35	4-5	GP	6.5	98	65	4.8	32	8	---
45	3-4	GP	12.4	95	46	1.6	25	10	41
55	3-4	GP-GC	5.6	89	54	6.7	29	11	56
65	3-4	SC	13.3	89	22	34.3	39	19	21
75	4-5	GP	3.5	89	46	4.2	---	NP	72
85	3-4	GP	8.6	83	33	5.2	34	3	62
95	1.5-2.5	SP-SM	6.5	100	16	7.9	---	NP	50
105	2-3	SC	15.4	100	2	40.3	36	4	44
115	5-6	SM	13.8	100	9	19.4	---	NP	76
120	0-1	SM/ML	11.1	100	3	47.1	29	14	---
125	2-3	SP-SM	8.8	100	27	7.1	---	NP	---
135	1-2	SM	16.4	100	15	29.8	39	11	---
145	1-2	SC	14.7	97	21	38	40	19	20
170	0-1	SC	14.2	100	16	44.3	27	8	---
190	0-1	SC-SM	16	100	8	47.6	39	13	---
215	0-1	CL-CH	12.7	100	4	57.8	50	30	---
225	4-5	SP-SM	8.6	100	49	10.1	36	6	45
230	10-11	GP-GC	4.9	93	52	6.9	29	10	44
235	3-4	SP-SM	12	95	37	6	46	19	38
255	0-1	SC	8.7	93	20	42.8	37	21	---
275	0-2	SC	10.4	100	14	48	40	16	---
295	0-1	SC	8.8	100	11	49.1	35	17	---
310	4-5	SP-SM	16.8	100	38	9.6	56	24	31
315	6-4	GM	9.9	100	52	13.8	37	13	32
330	18-19	GP-GC	8.9	100	76	6.4	32	10	46
335	4-5	SM	4.2	100	18	26.3	22	1	64
355	2-3	GP-GC	6.9	88	65	5.8	40	16	41
385	1-2	CL	12.6	100	2	57.6	39	58	---
404.5	0-4	SC	---	100	27	25	33	12	---
405	13-14	SC	9.7	97	42	16.9	36	14	31
411.5	0-3	SC	---	100	47	22.2	40	20	51
411.5	3-10	GC	---	100	54	17.6	40	18	---
415	12-13	GP-GM	7.9	100	56	7	44	17	38
419.5	0-3	SC	---	100	34	22.5	45	15	---

Table 1 – Geotechnical Testing Summary

Station	Depth	USCS	% Moist.	-3"	+ 4#	-200	Liquid Limit	Plasticity Index	R-Value
419.5	3-5	SM	---	100	14	25.8	36	6	---
424.5	0-4	SM	---	100	38	20.7	38	8	---
425	1-2	SM	7.5	100	45	21.2	37	11	31
429.5	0-2	SC	---	100	27	29.8	42	14	---
429.5	2-10	GP/SM	---	100	32	28.3	40	12	---
434.5	0-3	SC	---	100	30	32.4	46	23	---
434.5	3-4	SC	---	100	9	39.9	44	18	---
440	10-11	SC	10.2	100	10	26.9	37	14	---
441.5	0-2	SM	---	100	14	27.9	40	8	---
441.5	2-4	SM	---	100	36	21	-	NP	---
441.5	2-6	SM	---	100	32	25.5	44	10	---
446.5	0-2	SM	---	100	26	24	40	7	---
446.5	2-4	SM	---	100	25	21.3	40	5	---
450	Crushed	SP-SC	3.1	100	25	6.8	29	14	42
450.5	0-2	SM	---	100	23	24.4	39	8	---
450.5	2-3	CL/CH	---	100	1	68.5	50	31	---
450.5	3-10	SM	---	100	9	36.6	46	14	---
456.5	0-2	SM	---	100	17	26.6	41	9	---
456.5	2-6	SM	---	100	16	38.8	48	17	---
463.5	0-2	MH	---	100	11	47.1	74	40	---
463.5	2-3	ML	---	100	7	62.8	-	NP	---
465	0-1	SC	13.7	98	40	24.7	43	17	15
465	0-1	SC	13.7	98	40	24.7	43	17	15
469.5	0-2	SM	---	100	15	27.3	-	NP	---
469.5	2-4	SM	---	100	5	26.7	-	NP	---
475	1-2	SM	19.8	100	33	22.8	43	16	24
475	1-2	SM	19.8	100	33	22.8	43	16	24
476.5	0-2	SM	---	100	13	25.6	-	NP	---
476.5	2-4	SM	---	100	38	18.9	36	11	---
483.5	0-2	GM	---	100	57	13.4	35	8	---
483.5	2-4	SM	---	100	45	17.5	40	8	---
490	0-1	GP/GM	8.1	94	56	8.5	32	6	53
490	0-1	GP-GM	8.1	94	56	8.5	32	6	53
491.5	0-2	GP	---	100	63	11.6	30	8	---
491.5	2-10	SM	---	100	41	19.1	32	8	---
500.5	0-1	SM/SC	---	100	30	33.5	49	21	---
500.5	1-2	SM	---	100	33	23.7	41	14	---

Table 1 – Geotechnical Testing Summary

Station	Depth	USCS	% Moist.	-3"	+ 4#	-200	Liquid Limit	Plasticity Index	R-Value
500.5	2-10	SP	---	100	43	8.2	-	NP	---
506.5	0-4	SC	---	100	27	40.5	32	15	---
510	1-2	GP/GM	9.5	94	58	7.4	34	8	70
510	1-2	GP-GM	9.5	94	58	7.4	34	8	45
511.5	0-4	GP/GM	---	100	50	10.6	-	NP	---
511.5	4-6	GM	---	100	49	20.4	39	11	---
520.5	0-4	SM	---	100	28	16.7	-	NP	---
521.5	0-4	SM	---	100	32	29.8	31	9	---
525	1-2	SP/SM	13.5	100	45	7.6	48	2	59
525	1-2	SP-SM	13.5	100	45	7.6	48	2	59
525.5	0-1	SC	---	100	44	20.2	26	8	---
525.5	1-10	SC	---	100	40	32.5	26	8	---
530.5	0-1	SP	---	100	46	11.8	35	15	---
530.5	1-4	GP	---	100	59	8.5	24	4	---
531.5	2-4	GM	---	100	65	11.8	-	NP	---
535	3-4	GP/GC	13.9	74	36	9	31	9	39
535	2-3	GP-GC	13.9	74	36	9	31	9	39
536.5	0-4	SC	---	100	39	28.1	31	14	41
536.5	4-6	GP	---	100	57	6.2	-	NP	---
536.5	6-10	SM/SC	---	100	35	26.7	28	8	---
541.5	4-10	GP/GC	---	100	55	11.2	30	13	---
541.5	4-10	GP	---	100	53	12.1	24	16	---
545	0-1	GP/GM	6.5	77	57	5	23	1	---
545	0-1	GP-GM	6.5	77	57	5	23	1	---
551.5	0-10	GP	---	100	55	8.2	-	NP	---
555	1-2	SC	10.5	94	28	15.8	27	8	22
555	1-2	SC	10.5	94	28	15.8	27	8	37
560.5	0-2	CL	---	100	10	66	42	28	---
560.5	2-10	GC	---	100	49	21.5	39	19	---
570	0-1	SP/SM	4	97	46	5.1	21	3	61
570	0-1	SP-SM	4	97	46	5.1	21	3	61
571.5	2-4	SC	---	100	32	27.7	35	13	---
571.5	6-8	SM	---	100	58	15	34	10	---
579.5	2-4	GM	---	100	52	20.2	-	NP	---
589.5	4-6	GP	---	100	62	7.4	23	5	---
590	0-1	GC	11.8	86	41	12.1	39	14	30
590	0-1	GC	11.8	86	41	12.1	39	14	30

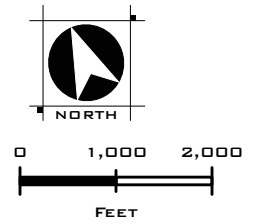
Table 1 – Geotechnical Testing Summary

Station	Depth	USCS	% Moist.	-3"	+ 4#	-200	Liquid Limit	Plasticity Index	R-Value
605	0-2	CL	14.2	100	2	76.8	46	28	---
605	0-2	CL	14.2	100	2	76.8	46	28	---
620	0-2	SP/SM	22.1	96	35	8.8	32	5	55
620	0-2	SP-SM	22.1	96	35	8.8	32	5	55
640	0-1.5	SP/SC	7	95	42	11.7	31	11	44
640	0-1.5	SP-SC	7	95	42	11.7	31	11	37
655	0-1	SM	11	85	23	25.2	45	18	11
655	0-1	SM	11	85	23	25.2	45	18	25
670	0-1	GC	12.5	95	58	4.9	44	18	64
670	0-1	GC	12.5	95	58	4.9	44	18	41
680	0-2	SM	12.7	81	25	13.4	32	5	55
680	0-2	SM	12.7	81	25	13.4	32	5	55
230A	9-10	SC	8.1	88	32	14	40	16	32
235A	15-16	SC	8.8	100	6	20.6	37	15	28
330A	10-11	GP-GM	10.8	96	65	6.2	43	14	44
330B	8-9	SM	7.6	100	11	31.7	24	2	44
330B	13-14	SC	11.9	100	47	32.6	29	13	---
330C	3-4	SC	11.9	100	25	44.6	43	18	19
345A	2-3	SM	6.2	100	35	16.9	28	7	35
345B	5-6	SC	7.3	100	19	34.9	31	13	25
405A	Crushed	SP-SC	2.4	100	33	6	29	12	40
420A	1-2	SC	8	100	19	37.1	32	13	---
435A	Crushed	SP-SC	2	100	29	6	25	6	37
435B	10-11	GC	6.3	100	58	17	39	16	26
455A	Crushed	SP-SC	2.1	100	29	5.1	24	9	40

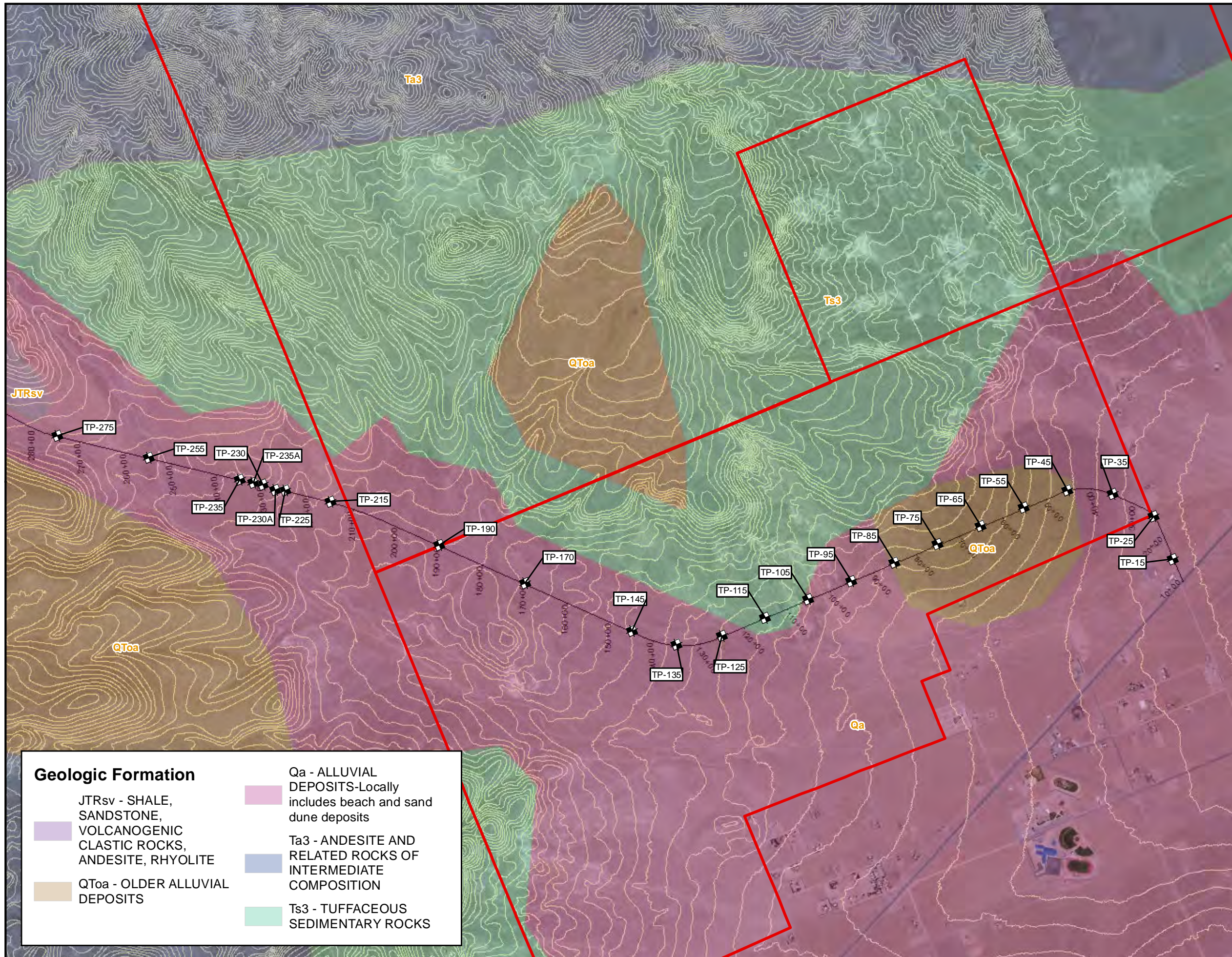
PREVIOUS CORROSIVE TEST DATA

Table 2 – Corrosive Test Summary					
Sta	Depth (Ft.)	Soluble Chlorides mg/kg SM4500C	pH S.U. AM9045C	Soluble Sulfates % SM4500E	Resistivity Ω-cm AASHTOT288
345A	2-3	226	7.23	0.02	754
345B	5-6	123	7.18	0.01	900
405	13-14	9.5	8.23	0.00	1860
435B	0-2	5.2	6.94	0.00	1960
535	2-3	5.80	7.85	0.00	2820

Site Plan and
Test Pit Locations
USA Parkway Geotech
Reno, NV
April, 2013



- Test Pit
- Location with Cut > 30'
- Alignment
- BLM Parcels



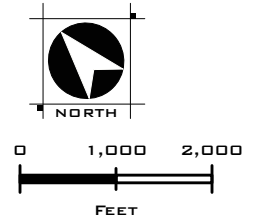
Geologic Formation	
JTRsv - SHALE, SANDSTONE, VOLCANOGENIC CLASTIC ROCKS, ANDESITE, RHYOLITE	Qa - ALLUVIAL DEPOSITS-Locally includes beach and sand dune deposits
QToa - OLDER ALLUVIAL DEPOSITS	Ta3 - ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION
	Ts3 - TUFFACEOUS SEDIMENTARY ROCKS

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,

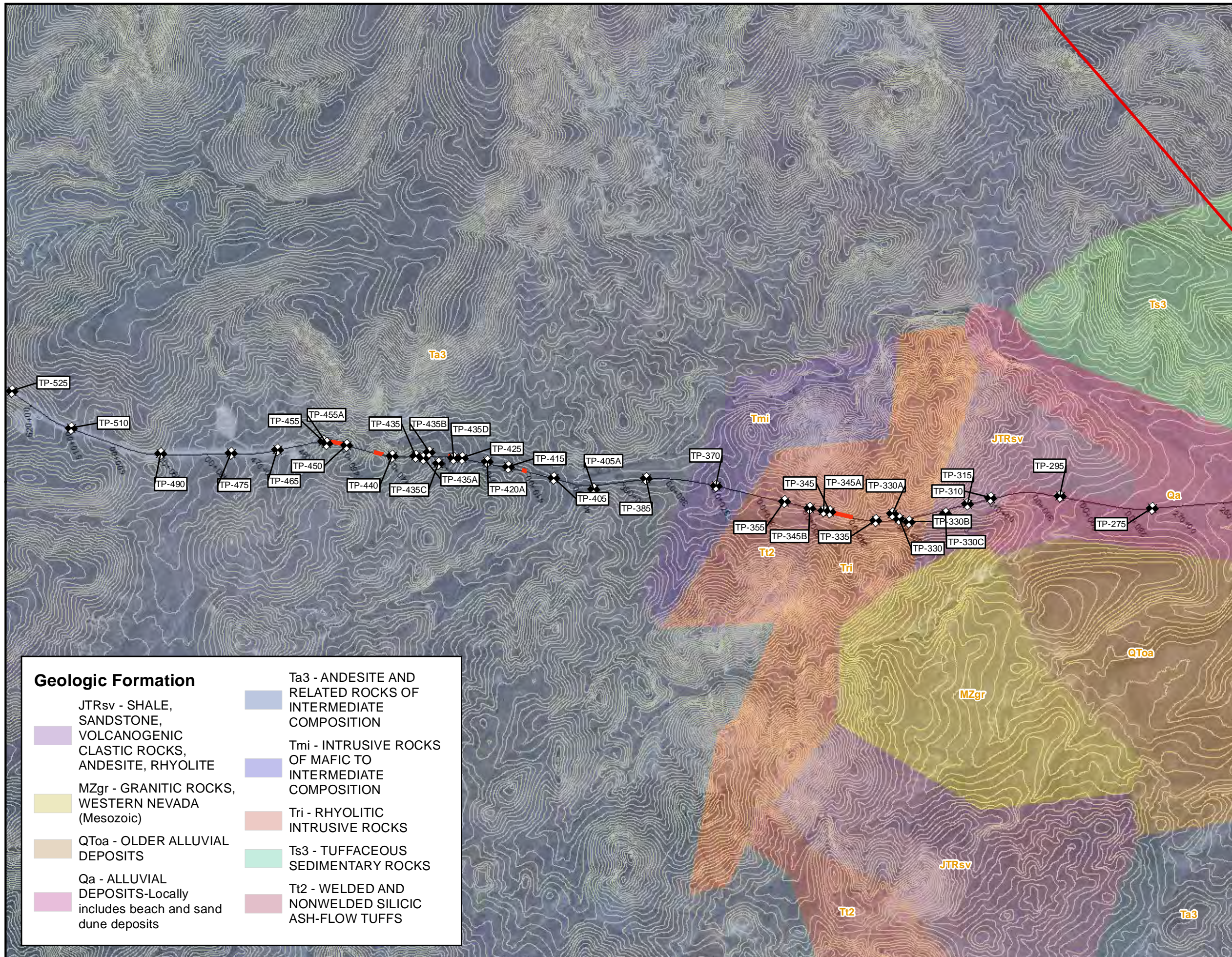
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FIGURE A1

Site Plan and
Test Pit Locations
USA Parkway Geotech
Reno, NV
April, 2013



- Test Pit
- Location with Cut > 30'
- Alignment
- BLM Parcels



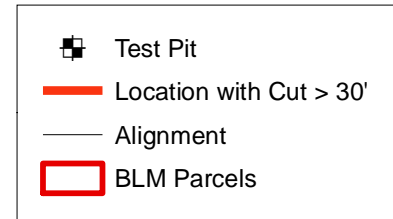
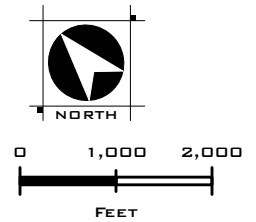
Geologic Formation	
JTRsv - SHALE, SANDSTONE, VOLCANOGENIC CLASTIC ROCKS, ANDESITE, RHYOLITE	Ta3 - ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION
MZgr - GRANITIC ROCKS, WESTERN NEVADA (Mesozoic)	Tmi - INTRUSIVE ROCKS OF MAFIC TO INTERMEDIATE COMPOSITION
QToa - OLDER ALLUVIAL DEPOSITS	Tri - RHYOLITIC INTRUSIVE ROCKS
Qa - ALLUVIAL DEPOSITS-Locally includes beach and sand dune deposits	Ts3 - TUFFACEOUS SEDIMENTARY ROCKS
	Tt2 - WELDED AND NONWELDED SILICIC ASH-FLOW TUFFS

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,

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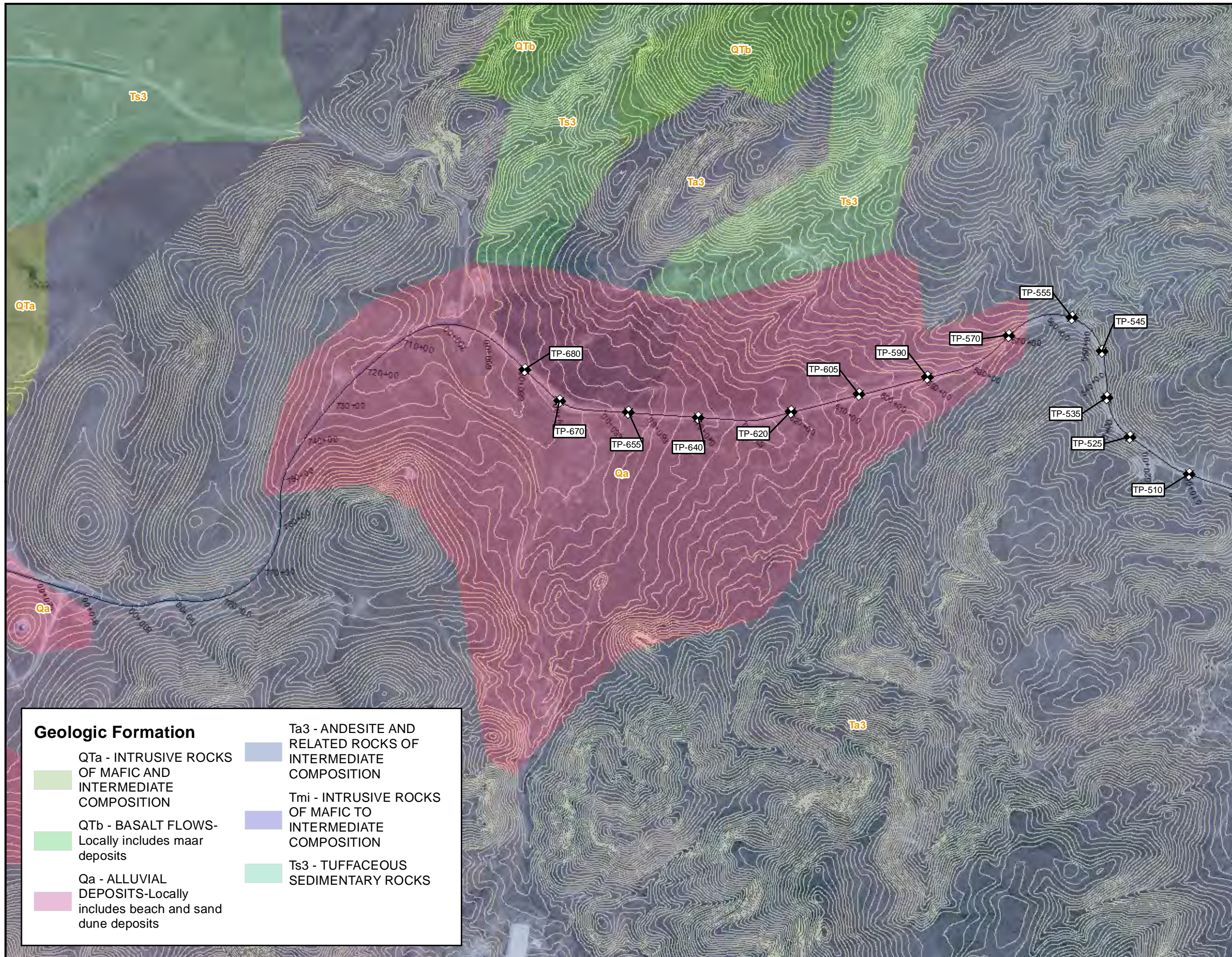
FIGURE A2

Site Plan and
Test Pit Locations
USA Parkway Geotech
Reno, NV
April, 2013



Geologic Formation

- | | |
|---|---|
| <p>QTa - INTRUSIVE ROCKS OF MAFIC AND INTERMEDIATE COMPOSITION</p> <p>QTb - BASALT FLOWS- Locally includes maar deposits</p> <p>Qa - ALLUVIAL DEPOSITS- Locally includes beach and sand dune deposits</p> | <p>Ta3 - ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION</p> <p>Tmi - INTRUSIVE ROCKS OF MAFIC TO INTERMEDIATE COMPOSITION</p> <p>Ts3 - TUFFACEOUS SEDIMENTARY ROCKS</p> |
|---|---|



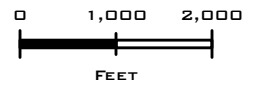
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FIGURE A3

Site Plan and
Test Pit Locations
USA Parkway Geotech
Reno, NV
April, 2013



-  Test Pit
-  Location with Cut > 30'
-  Alignment
-  BLM Parcels

Geologic Formation

- | | |
|--|--|
| <p>QTa - INTRUSIVE ROCKS OF MAFIC AND INTERMEDIATE COMPOSITION</p> <p>Qa - ALLUVIAL DEPOSITS-Locally includes beach and sand dune deposits</p> | <p>Ta3 - ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION</p> <p>Tba - ANDESITE AND BASALT FLOWS</p> <p>Ts3 - TUFFACEOUS SEDIMENTARY ROCKS</p> |
|--|--|

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,



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FIGURE A4



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TEST PIT NUMBER TP-15+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/3/12 **COMPLETED** 12/3/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 15+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4291 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

GEOTECH BH USA PARKWAY - GINT STD US LAB.GDT - 5/6/13 09:24 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER		R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
			C	GB		CPSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND, (SM) brown to tan, slightly moist, medium dense														
		Increasing gravel to 1"	Hand	GB 15A	60							8.4	30	30	NP	17.6
2.5		Trace gravel bedding														
5.0		Trace cobbles to 6"														
7.5																
10.0																

Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-25+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/3/12 **COMPLETED** 12/3/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 25+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4295 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER		R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
			C	GB		CF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0																
2.5		SILTY SAND WITH GRAVEL, (SM) brown, moist, medium dense		GB 25A	60							8.4	30	30	NP	17.6
5.0		Increasing gravel and cobbles to 8"														
7.5																
10.0				GB 25B												

Bottom of Test Pit at 10.0 Feet.

GEOTECH BH USA PARKWAY - GINT STD US LAB.GDT - 5/6/13 09:24 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ



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TEST PIT NUMBER TP-35+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/3/12 **COMPLETED** 12/3/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 35+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4308 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

GEOTECH BH USA PARKWAY - GINT STD US LAB.GDT - 5/6/13 09:24 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND WITH GRAVEL, (SM) brown, moist, medium dense													
2.5		POORLY GRADED GRAVEL, (GP) tan, moist, dense, with some cobbles to 8"													
5.0		Increasing cobbles and boulder to 18"	GB 35A								6.5	31	23	8	4.8
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-45+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/3/12 **COMPLETED** 12/3/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 45+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4350 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND WITH GRAVEL, (SM) brown, moist, medium dense													
2.5		POORLY GRADED GRAVEL, (GP) brown, moist, dense, with some cobbles to 12" and boulders to 18"													
		Roots	Hand icon GB 45A	41							12.4	25	15	10	1.6
5.0		Caving													
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.

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Wood Rodgers, Inc.
 5440 Reno Corporate Drive
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 Telephone: 775-823-4068
 Fax: 775-823-4066

TEST PIT NUMBER TP-55+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/3/12 **COMPLETED** 12/3/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 55+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4387 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND WITH GRAVEL, (SM) brown, moist, medium dense													
2.5		POORLY GRADED GRAVEL WITH CLAY, (GP-GC) tan, moist, dense, with some cobbles to 12" and boulder to 18"													
		Some cementation	Hand icon	GB 55A	56						5.6	29	18	11	6.7
5.0															
7.5		Caving													
10.0															

Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-65+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/3/12 **COMPLETED** 12/3/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 65+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4420 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		CLAYEY SAND WITH GRAVEL, (SC) brown, moist, medium dense, with cobbles to 12" and boulders to 20"	GB 65A	21							13.3	39	20	19	34.3
5.0		POORLY GRADED GRAVEL, (GP) tan, slightly moist, dense, with some cobbles to 12" and boulders to 36"													
7.5		Some cementation													

Refusal at 9.0 feet.
 Bottom of Test Pit at 9.0 Feet.

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TEST PIT NUMBER TP-75+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/3/12 **COMPLETED** 12/3/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 75+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4430 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND, (SM) brown, moist, medium dense													
2.5		POORLY GRADED GRAVEL, (GP) gray/tan, slightly moist, dense, with some cobbles to 12" and boulders to 30"													
5.0			GB 75A	72							3.5	30	30	NP	4.2
7.5		Some cementation													

Refusal at 9.0 feet.
 Bottom of Test Pit at 9.0 Feet.

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TEST PIT NUMBER TP-85+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/3/12 **COMPLETED** 12/3/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 85+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4406 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND, (SM) brown, moist, medium dense													
2.5		POORLY GRADED GRAVEL, (GP) white/tan, slightly moist, dense, with some cobbles to 12" and boulders to 20" Some cementation	GB 85A								8.6	34	31	3	5.2
5.0															
7.5															

Refusal at 9.0 feet.
 Bottom of Test Pit at 9.0 Feet.

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TEST PIT NUMBER TP-95+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/4/12 **COMPLETED** 12/4/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 95+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4427 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND, (SM) brown to tan, slightly moist, medium dense													
2.5		POORLY GRADED SAND WITH SILT, (SP-SM) tan to brown, slightly moist, medium dense with sand bedding	GB 95A	50							6.5	30	30	NP	7.9
5.0		roots													
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-105+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/4/12 **COMPLETED** 12/4/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 105+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4907 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND, (SC) brown, slightly moist, medium dense													
2.5		SANDSTONE, tan, slightly moist F, D-30, PDS, excavates to a Silty Sand (SM)	GB 105A	44							15.4	35	32	3	40.3
5.0															
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.

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TEST PIT NUMBER TP-115+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/4/12 **COMPLETED** 12/4/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 115+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4472 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND, (SM) brown, moist, medium dense													
2.5		SANDSTONE, tan gray, slightly moist F, D-30, PDS, excavates to a Silty Sand (SM)													
5.0			GB 115A	76							13.8	30	30	NP	19.4
7.5		Caving Roots													
10.0		W to MS													
12.5															
Refusal at 13.5 feet. Bottom of Test Pit at 13.5 Feet.															

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TEST PIT NUMBER TP-125+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/4/12 **COMPLETED** 12/4/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 125+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4484 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND, (SC) brown, moist, medium dense	GB 125A								11.1	29	15	14	47.1
2.5		POORLY GRADED SAND WITH SILT, (SP-SM) tan to gray, slightly moist, medium dense with sand bedding	GB 125B				122.7	11.5			8.8	30	30	NP	7.1
7.5		POORLY GRADED GRAVEL, (GP) tan, moist, dense with some cobbles to 10"													
10.0		Bottom of Test Pit at 10.0 Feet.													

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TEST PIT NUMBER TP-135+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/4/12 **COMPLETED** 12/4/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 135+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4515 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND, (SM) brown, moist, medium dense Tan to brown													
2.5		Slightly cementation	GB 135A				103.5	18.8			16.4	39	28	11	29.8
5.0															
7.5		Dense, gravel bedding													
10.0		Bottom of Test Pit at 10.0 Feet.													

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TEST PIT NUMBER TP-145+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/4/12 **COMPLETED** 12/4/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 145+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4544 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND WITH GRAVEL, (SM) brown, moist, dense, with cobbles to 12" and boulders to 18"													
2.5		CLAYEY SAND WITH GRAVEL, (SC) brown tan orange, slightly moist, medium dense, some cementation, with few cobbles to 12"	GB 145A	20							14.7	40	21	19	38
5.0		POORLY GRADED SAND, (SP) gray brown, slightly moist, medium dense, trace cobbles to 12" Alternating layers of cemented sand/gravel, approximately 6" in thickness, to 10'	GB 145B								4.7	30	30	NP	3.8
7.5		Dense Roots													
10.0		Bottom of Test Pit at 10.0 Feet.													



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TEST PIT NUMBER TP-170+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/4/12 **COMPLETED** 12/4/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 170+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4643 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND, (SC) brown, moist, medium dense	GB 170A				115.5	14.5			14.2	27	19	8	44.3
2.5		POORLY GRADED GRAVEL, (GP) gray/tan, slightly moist, medium dense with some cobbles to 12" and boulders to 15"													
5.0															
7.5			GB 170B												
10.0															

Bottom of Test Pit at 10.0 Feet.

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TEST PIT NUMBER TP-190

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 12/4/12 **COMPLETED** 12/4/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 190+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4684 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND, (SC) brown, moist, medium dense	GB 190A				107.5	16.4			16.0	39	26	13	47.6
2.5		SILTY SAND, (SM) orange/red, slightly moist, dense, cemented	GB 190B												
5.0		POORLY GRADED GRAVEL, (GP) white/tan, slightly moist, dense, with some cobbles to 12" and boulders to 18"													
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-215+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/30/12 **COMPLETED** 10/30/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 215+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4700 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		INORGANIC CLAY, (CL-CH) dark brown, moist, stiff	GB 215A								12.7	50	20	30	57.8
2.5		SILTY SAND, (SM) white tan, slightly moist, medium dense	GB 215B												
5.0		Dense, Increasing Cobbles													
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.

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TEST PIT NUMBER TP-225+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/30/12 **COMPLETED** 10/30/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 225+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4724 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5															
5.0		POORLY GRADED SAND WITH SILTY SAND, (SP-SM) white tan, slightly moist, dense with some Cobbles to 12" and boulders to 20"	GB 225A	45							8.6	36	30	6	10.1
		Increasing Cobbles and Boulders													

Bottom of Test Pit at 7.0 Feet.



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TEST PIT NUMBER TP-230+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/30/12 **COMPLETED** 10/30/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 230+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4749 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		POORLY GRADED GRAVEL WITH CLAY AND SAND, (GP-GC) tan white, moist, dense with some Cobbles to 12" and boulders to 24"													
5.0															
7.5															
10.0		Caving	GB 230A	44							4.9	29	19	10	6.9
12.5															
Bottom of Test Pit at 14.0 Feet.															

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Wood Rodgers, Inc.
 5440 Reno Corporate Drive
 Reno, NV 89511
 Telephone: 775-823-4068
 Fax: 775-823-4066

TEST PIT NUMBER TP-230A

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/30/12 **COMPLETED** 10/30/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 36' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4736 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY GRAVEL, (GC) dark brown, moist, dense with some Cobbles to 12"													
2.5		CLAYEY SAND WITH GRAVEL, (SC) white tan, slightly moist, medium dense with some Cobbles to 12" and boulders to 18"													
5.0															
7.5															
10.0			GB 230AA	32							8.1	40	24	16	14.0
12.5		Increasing Cobbles and Boulders													
15.0															

Bottom of Test Pit at 15.0 Feet.



Wood Rodgers, Inc.
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TEST PIT NUMBER TP-235+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/30/12 **COMPLETED** 10/30/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 235+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4736 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

GEOTECH BH USA PARKWAY MC XX.X FINES X.X - GINT STD US LAB.GDT - 5/6/13 09:46 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY SAND WITH GRAVEL, (SC) dark brown, slightly moist, medium dense with some cobbles to 10"	GB 235A												
2.5		POORLY GRADED SAND WITH CLAY AND GRAVEL, (SP-SC) brown, moist, medium dense with some Cobbles to 12"													
			GB 235B	38							12.0	46	27	19	6.0
5.0		POORLY GRADED GRAVEL, (GP) brown, slightly moist, dense with some Cobbles to 12" and boulders to 15"													
7.5		Boulders to 20"													
10.0															

Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-235A

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/30/12 **COMPLETED** 10/30/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 5' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4745 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) dark brown, slightly moist, medium dense with some cobbles to 8"													
2.5		POORLY GRADED GRAVEL, (GP) brown, moist, dense with some Cobbles to 12" and boulders to 24"													
7.5		CLAYSTONE, slightly moist Tan, W to MS, D- 30, PDS, excavates to a Clayey Sand (SC)													
10.0															
12.5															
15.0															

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TEST PIT NUMBER TP-235A

CLIENT Jacobs Engineering Group, Inc PROJECT NAME USA Parkway
 PROJECT NUMBER 8480.001 PROJECT LOCATION See Site Plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
15.0															
		CLAYSTONE, slightly moist Tan, W to MS, D- 30, PDS, excavates to a Clayey Sand (SC) (continued)	GB 235AA	28							8.8	37	22	15	20.6
17.5															

Bottom of Test Pit at 19.0 Feet.

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TEST PIT NUMBER TP-255+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/30/12 **COMPLETED** 10/30/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 255+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4773 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 12", and boulders to 18"	GB 255A								8.7	37	16	21	42.8
2.5		POORLY GRADED GRAVEL, (GP) tan, slightly moist, dense with some Cobbles to 12", and boulders to 20"													
5.0		Roots													
7.5		Very Dense													
10.0															

Bottom of Test Pit at 10.0 Feet.



Wood Rodgers, Inc.
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TEST PIT NUMBER TP-275+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/29/12 **COMPLETED** 10/29/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 275+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4821 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
0.0 - 2.5		CLAYEY SAND WITH GRAVEL, (SC) dark brown, slightly moist, medium dense with some cobbles to 8"	GB 275A								10.4	40	24	16	48.0
2.5 - 5.0		SANDSTONE Tan/White/Yellow, W to MS, D- 30, PDS, slightly moist, excavates to a Silty Sand with Gravel (SM)	GB 275B												
5.0 - 7.5			GB 275C												
7.5 - 10.0															

Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-295+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/29/12 **COMPLETED** 10/29/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 245+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4897 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 8"	GB 295A								8.8	35	18	17	49.1
		SANDSTONE Tan/White, W to MS, D- 30, PDS, slightly moist, excavates to a Silty Sand (SM)													
2.5			GB 295B												
		Increasing cobbles													
5.0															
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.

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TEST PIT NUMBER TP-310+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/29/12 **COMPLETED** 10/29/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 310+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4993 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 10"													
2.5		SANDSTONE Tan/White/Orange/Black, W to MS, D- 30, PDS, slightly moist, excavates to a Poorly Graded Sand with Silt (SP-SM)													
5.0			GB 310A	31							16.8	55	32	23	9.6
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.

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 Fax: 775-823-4066

TEST PIT NUMBER TP-315

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/29/12 **COMPLETED** 10/29/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 5' SW of CL
5' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4997 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 6" CLAYEY GRAVEL WITH SAND, (GC) brown tan, slightly moist, dense with some Cobbles to 12" and boulders to 24"													
5.0															
7.5			GB 315A	34							9.9	37	24	13	13.8
10.0		Moist													

Bottom of Test Pit at 10.0 Feet.

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Wood Rodgers, Inc.
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TEST PIT NUMBER TP-330+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/29/12 **COMPLETED** 10/29/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 330+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5080 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		POORLY GRADED GRAVEL, (GP) brown, slightly moist, medium dense with some Cobbles to 12"													
2.5															
5.0		RHYOLITE Tan/Brown, W to MS, SY- 40, PDS, slightly moist, excavates to a Poorly Graded Gravel with Clay (GP-CG) with cobbles						85	60						
7.5															
10.0															
12.5															
15.0															

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TEST PIT NUMBER TP-330+00

CLIENT Jacobs Engineering Group, Inc

PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
15.0															
17.5		RHYOLITE Tan/Brown, W to MS, SY- 40, PDS, slightly moist, excavates to a Poorly Graded Gravel with Clay (GP-CG) with cobbles (<i>continued</i>)													
			GB 330A	46							8.9	32	22	10	6.4
20.0															

Bottom of Test Pit at 20.0 Feet.



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TEST PIT NUMBER TP-330A

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/29/12 **COMPLETED** 10/29/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 130' NE of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5124 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)	
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
0.0																
2.5		POORLY GRADED GRAVELS WITH SILTY GRAVELS, (GP-GM) brown, slightly moist, medium dense with some Cobbles to 12"							65	80						
5.0																
7.5																
10.0																
				GB 330AA	44							10.8	44	29	15	6.2

Refusal at 11.0 feet.
 Bottom of Test Pit at 11.0 Feet.



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TEST PIT NUMBER TP-330B

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/29/12 **COMPLETED** 10/29/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 90' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5056 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
0.0 - 10.0		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 8" SANDSTONE Tan/White/Brown, W to MS, D- 30, PDS, slightly moist, excavates to a Silty Sand (SM)													
7.6			GB 330BA	44							7.6	24	22	2	31.7
10.0		CLAYEY SAND WITH GRAVEL, (SC) brown, moist, dense	GB 330BB												
11.9			GB 330BC								11.9	29	16	13	32.6
15.0															

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TEST PIT NUMBER TP-330B

CLIENT Jacobs Engineering Group, Inc **PROJECT NAME** USA Parkway
PROJECT NUMBER 8480.001 **PROJECT LOCATION** See Site Plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
15.0		CLAYEY SAND WITH GRAVEL, (SC) brown, moist, dense (<i>continued</i>) Some cobbles to 12"													

Bottom of Test Pit at 17.0 Feet.

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TEST PIT NUMBER TP-330C

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/29/12 **COMPLETED** 10/29/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 105' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5026 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 10"													
5.0			GB 330CA	19							11.9	43	25	18	44.6
7.5		RHYOLITE Gray/Tan, S, VB- 55, STS, slightly moist, excavates to a Poorly Grade Gravel with Sand (GP) with cobbles and boulders													
10.0															

Bottom of Test Pit at 12.0 Feet.

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Wood Rodgers, Inc.
 5440 Reno Corporate Drive
 Reno, NV 89511
 Telephone: 775-823-4068
 Fax: 775-823-4066

TEST PIT NUMBER TP-335+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/26/12 **COMPLETED** 10/26/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 335+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5108 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5															
5.0		SILTY SAND WITH GRAVEL, (SM) brown, slightly moist, medium dense with some cobbles to 6"	GB 335A	64			593	41			4.2	22	21	1	26.3
7.5		Tan													
10.0															

Bottom of Test Pit at 10.0 Feet.



Wood Rodgers, Inc.
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 Fax: 775-823-4066

TEST PIT NUMBER TP-345A

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/26/12 **COMPLETED** 10/26/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 5' NE of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5181 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		SILTY SAND WITH GRAVEL, (SM) brown, slightly moist, dense with some Cobbles to 12" and boulders to 24"	GB 345AA	35							6.2	28	21	7	16.9
5.0															

Refusal at 7.0 feet.
 Bottom of Test Pit at 7.0 Feet.



Wood Rodgers, Inc.
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TEST PIT NUMBER TP-345B

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/26/12 **COMPLETED** 10/26/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 15' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5189 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY GRAVEL, (GC) brown tan, slightly moist, medium dense with some Cobbles to 12"													
2.5		CLAYEY SAND WITH GRAVEL, (SC) brown tan, slightly moist, very dense with some Cobbles to 12" and boulders to 15"													
5.0			GB 345BA	25			504	29			7.3	31	18	13	34.9
7.5															

Refusal at 9.0 feet.
 Bottom of Test Pit at 9.0 Feet.

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TEST PIT NUMBER TP-355+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/26/12 **COMPLETED** 10/26/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 355+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5205 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		ANDESITE/BASALT Black/Gray/Orange, S, VB- 55, STS, dry, excavates to a GP-GC with cobbles and boulders	GB 355A	41				80	70	6.9	40	24	16	5.8	
5.0															

Refusal at 7.0 feet.
 Bottom of Test Pit at 7.0 Feet.

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TEST PIT NUMBER TP-370+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/26/12 **COMPLETED** 10/26/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 370+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5293 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY SAND WITH GRAVEL, (SC) with some cobbles to 8", medium dense, slightly moist, brown Andesite/Basalt, Gray/Brown, S, VB- 65, STS, slightly moist, excavates to a Poorly Grade Gravel (GP) with cobbles and boulders													
2.5															

Refusal at 3.0 feet.
 Bottom of Test Pit at 3.0 Feet.



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TEST PIT NUMBER TP-385+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/26/12 **COMPLETED** 10/26/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 385+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5223 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY SAND, (CL) brown, slightly moist, stiff with some Cobbles to 8"	GB 385A								12.6	39	21	18	57.6
2.5		ANDESITE/BASALT Tan/White/Orange, S, VB- 55, STS, slightly moist, excavates to a Poorly Grade Gravel (GP) with cobbles and boulders													
5.0															
7.5															

Bottom of Test Pit at 9.0 Feet.

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TEST PIT NUMBER TP-405+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/26/12 **COMPLETED** 10/26/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 405+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5273 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 6"													
		WELDED TUFF White/Yellow, W, SY- 35, PDS, slightly moist, excavates to a Clayey Sand (SC) with cobbles													
2.5															
5.0															
7.5															
10.0															
12.5															
			GB 405A	31							9.7	36	22	14	16.9
15.0															

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TEST PIT NUMBER TP-405+00

CLIENT Jacobs Engineering Group, Inc **PROJECT NAME** USA Parkway
PROJECT NUMBER 8480.001 **PROJECT LOCATION** See Site Plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
15.0		WELDED TUFF White/Yellow, W, SY- 35, PDS, slightly moist, excavates to a Clayey Sand (SC) with cobbles <i>(continued)</i>													

Bottom of Test Pit at 17.0 Feet.

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TEST PIT NUMBER TP-405A

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/26/12 **COMPLETED** 10/26/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 90' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5250 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 6"													
2.5		ANDESITE/BASALT, Sample was crushed for potential Borrow and tested as Poorly Graded Sand with Clay and Gravel (SP-SC). Gray/ White, S, VB- 55, STS, slightly moist, excavates to a Poorly Grade Gravel (GP) with cobbles and boulders	GB 405AA	40				40	45	2.4	29	17	12	6.0	
5.0															

Refusal at 7.0 feet.
 Bottom of Test Pit at 7.0 Feet.



Wood Rodgers, Inc.
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TEST PIT NUMBER TP-415+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/25/12 **COMPLETED** 10/25/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 415+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5321 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) with some cobbles to 6"													
2.5		RHYOLITE intrusive rocks, yellow/white, MS, SY- 45, STS, dry, excavates to a Poorly Grade Gravel with Silt and Sand (GP-GM) with cobbles to 12"													
5.0															
7.5															
10.0															
12.5			GB 415A	38			1393	33			7.9	44	27	17	7.0
15.0															

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Wood Rodgers, Inc.
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 Fax: 775-823-4066

TEST PIT NUMBER TP-415+00

CLIENT Jacobs Engineering Group, Inc **PROJECT NAME** USA Parkway
PROJECT NUMBER 8480.001 **PROJECT LOCATION** See Site Plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
15.0		RHYOLITE intrusive rocks, yellow/white, MS, SY- 45, STS, dry, excavates to a Poorly Grade Gravel with Silt and Sand (GP-GM) with cobbles to 12" (<i>continued</i>)													

Refusal at 16.0 feet.
 Bottom of Test Pit at 16.0 Feet.

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TEST PIT NUMBER TP-420A

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/25/12 **COMPLETED** 10/25/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 41' NE of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5322 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 8"	GB 420AA								8.0	32	19	13	37.1
5.0		ANDESITE/BASALT Gray/ White, S, VB- 55, STS, slightly moist, excavates to a Poorly Grade Gravel (GP) with cobbles and boulders	GB 420AB												
7.5															

Refusal at 8.0 feet.
 Bottom of Test Pit at 8.0 Feet.



Wood Rodgers, Inc.
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TEST PIT NUMBER TP-425+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/25/12 **COMPLETED** 10/25/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 425+00 @ 6' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5351 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 8"													
		ANDESITE/BASALT Black/ White, S, VB- 55, STS, slightly moist, excavates to a Silty Sand (SM) with cobbles and boulders	GB 425A	31							7.5	37	26	11	21.2
2.5															
5.0															
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.



Wood Rodgers, Inc.
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 Fax: 775-823-4066

TEST PIT NUMBER TP-435+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/25/12 **COMPLETED** 10/25/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 435+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5439 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 10"													
2.5		ANDESITE Black/ White/Yellow, S, VB- 55, STS, slightly moist, excavates to a Poorly Graded Gravel (GP) with cobbles and boulders							10 35	50 42					
5.0															
7.5															
10.0															
12.5															
			GB 435A												

Refusal at 13.0 feet.
 Bottom of Test Pit at 13.0 Feet.

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TEST PIT NUMBER TP-435A

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/25/12 **COMPLETED** 10/25/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 45' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5435 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) with some cobbles to 10", medium dense, slightly moist, brown													
2.5		ANDESITE/BASALT, Sample was crused for potential Borrow and tested as Poorly Graded Sand with Clay and Gravel (SP-SC) Black/ White, S, VB- 55, STS, slightly moist, excavates to a Poorly Graded Gravel (GP) with cobbles and boulders													
5.0															
7.5															
			GB 435AA	37							2.0	25	19	6	6.0

Refusal at 9.0 feet.
 Bottom of Test Pit at 9.0 Feet.

GEOTECH BH USA PARKWAY MC X.X FINES X.X - GINT STD US LAB.GDT - 5/6/13 09:47 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ



Wood Rodgers, Inc.
 5440 Reno Corporate Drive
 Reno, NV 89511
 Telephone: 775-823-4068
 Fax: 775-823-4066

TEST PIT NUMBER TP-435B

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/25/12 **COMPLETED** 10/25/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 82' NE of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5388 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY GRAVEL WITH SAND, (GC) with some Cobbles to 8"- medium dense, slightly moist, brown	GB 435BA	26							6.3	39	23	16	17.0
2.5		Andesite/Basalt, Black/ White, S, VB- 55, STS, slightly moist, excavates to a GP with cobbles and boulders													
5.0															
7.5															

Bottom of Test Pit at 8.0 Feet.



Wood Rodgers, Inc.
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TEST PIT NUMBER TP-435C

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/25/12 **COMPLETED** 10/25/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 16' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5399 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY SAND WITH GRAVEL, (SC) with some cobbles to 10", medium dense, slightly moist, brown													
		ANDESITE/BASALT Black/ White/yellow, S, VB- 55, STS, slightly moist, excavates to a Clayey Gravel (GC) with cobbles and boulders													
2.5															
5.0															
7.5															
10.0															

GB
435CA

Refusal at 10.0 feet.
 Bottom of Test Pit at 10.0 Feet.

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TEST PIT NUMBER TP-435D

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/25/12 **COMPLETED** 10/25/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 28' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5383 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		ANDESITE/BASALT Black/Gray, S, VB- 55, STS, dry, excavates to a Poorly Grade Gravel (GP) with cobbles and boulders													
5.0															
7.5															

Refusal at 8.0 feet.
 Bottom of Test Pit at 8.0 Feet.

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TEST PIT NUMBER TP-440+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/24/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 440+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5439 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense, with some cobbles to 10"													
5.0		CLAYSTONE, gray/white black/purple, slightly moist, excavates to a Clayey Sand (SC) F, D- 25, PDS													
10.0			GB 440A								10.2	37	23	14	26.5
12.5															
15.0															

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Bottom of Test Pit at 15.0 Feet.




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TEST PIT NUMBER TP-450+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/24/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 450+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5509 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encoutered
AT END OF EXCAVATION --- No Free Water Encoutered
AFTER EXCAVATION --- No Free Water Encoutered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		RHYOLITIC INTRUSIVE ROCKS, Sample was crushed for potential Borrow and tested as Poorly Graded Sand with Clay and Gravel (SP-SC), gray/white green/yellow, dry, excavates to a Clayey Gravel (GC) with boulders to 15" S, UB- 55, STS													
5.0			GB 450A	42							3.1	29	15	14	6.8

Refusal at 6.0 feet.
 Bottom of Test Pit at 6.0 Feet.



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TEST PIT NUMBER TP-455

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/24/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 455 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5502 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense, with some cobbles to 10" with some cobbles to 10"													
2.5		RHYOLITIC INTRUSIVE ROCKS, brown/green white, dry, excavates to a Poorly Grade Gravel (GP) S, UB- 55, STS,	GB 455A						30	80					
5.0		Roots													

Refusal at 7.0 feet.
 Bottom of Test Pit at 7.0 Feet.

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TEST PIT NUMBER TP-455A

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/24/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: 38' SW of CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5524 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 10"													
2.5		RHYOLITIC INTRUSIVE ROCKS, Sample was crushed for potential Borrow and tested as Poorly Graded Sand with Clay and Gravel (SP-SC), gray white, dry excavates to a Clayey Gravel (GP) with boulders to 24" S, UB- 45, STS													
7.5			GB 455AA	40							2.1	24	15	9	5.1
10.0															

Bottom of Test Pit at 12.0 Feet.

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TEST PIT NUMBER TP-465+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/24/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom
NOTES: STA: 465+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5467 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		FILL - CLAYSTONE, brown/yellow white, slightly moist, excavates to a Clayey Sand (SC) F, D- 20, PDS	GB 465A	15							13.7	43	26	17	24.7
2.5		Tan/yellow white/purple, some cobbles to 12"													
5.0															
7.5		Tan/yellow red													
10.0															

Bottom of Test Pit at 11.0 Feet.

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Wood Rodgers, Inc.
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 Fax: 775-823-4066

TEST PIT NUMBER TP-475+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/24/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom **CHECKED BY** Tom
NOTES: STA: 475+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5503 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYSTONE, brown/yellow white, slightly moist, excavates to a Silty Sand (SM) F, D, PDS													
			GB 475A	24							19.8	43	27	16	22.4
2.5		Dark brown													
5.0															
7.5		Tan/yellow red													
10.0															

Bottom of Test Pit at 10.0 Feet.

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TEST PIT NUMBER TP-490+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/24/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom **CHECKED BY** Tom
NOTES: STA: 490+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5599 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		POORLY GRADED GRAVEL WITH SILT AND SAND, (GP-GM) tan, slightly moist, medium dense with some Cobbles to 12" and boulders to 20"	GB 490A	53							8.1	32	26	6	8.5
2.5															
		CLAYEY GRAVEL, (GC) brown, slightly moist, dense with some Cobbles to 12" and boulders to 25"	GB 490B												
5.0															
7.5															
10.0		Increasing boulders													

Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-510+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/27/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 510+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5716 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		POORLY GRADED GRAVEL WITH SILT AND SAND, (GP-GM) tan/brown, slightly moist, medium dense, with some cobbles to 12" and boulders to 15"	GB 510A	45							9.5	35	26	9	7.4
5.0		CLAYEY GRAVEL, (GC) brown/yellow, slightly moist, medium dense, with some cobbles to 12" and boulders to 19"	GB 510B												
7.5		Increasing angular cobbles													
10.0		Bottom of Test Pit at 10.0 Feet.													



Wood Rodgers, Inc.
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TEST PIT NUMBER TP-525+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/24/12 **COMPLETED** 10/24/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 525+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5622 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		POORLY GRADED SAND WITH SILT AND GRAVEL, (SP-SM) brown green white, slightly moist, F, D-20, PDS	GB 525A	59							13.5	49	46	3	7.6
2.5		W to MS													
5.0															
7.5		Green yellow	GB 525B												
10.0															

Bottom of Test Pit at 10.0 Feet.

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TEST PIT NUMBER TP-535+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 535+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5564 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		CLAYEY SAND WITH GRAVEL, (SC) brown, slightly moist, medium dense with some cobbles to 10" and boulders to 18"	GB 535A												
2.5		POORLY GRADED GRAVEL WITH CLAY AND SAND, (GP-GC) brown, slightly moist, dense with some Cobbles to 12"	GB 535B	39							13.9	31	22	9	9.0
5.0		Caving													
7.5															
10.0															
12.5															

Bottom of Test Pit at 13.0 Feet.



Wood Rodgers, Inc.
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TEST PIT NUMBER TP-545+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 545+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5518 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

GEOTECH BH USA PARKWAY FINES X.X - GINT STD US LAB.GDT - 5/6/13 09:50 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
0.0 - 10.0		POORLY GRADED GRAVEL WITH SILT AND SAND, (GP-GM) tan to gray, slightly moist, medium dense with mostly angular Cobbles to 12"	GB 545A				317	37			6.5	23	24	NP	5.0
2.5		Dense													
5.0		Caving													
7.5		Very dense													

Refusal at 10.0 feet.
 Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-555+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 555+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5455 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		INORGANIC CLAYS WITH GRAVEL, (CL) dark, moist, stiff													
2.5		CLAYEY SAND WITH GRAVEL, (SC) tan, slightly moist, medium dense with some cobbles to 10"	GB 555A	37							10.5	27	19	8	15.8
5.0		Dense increasing cobbles to 12" and boulders to 36"													
7.5		POORLY GRADED GRAVEL, (GP) tan, slightly moist, very dense with some Cobbles to 12" and boulders to 36"													
10.0															

Refusal at 10.0 feet.
 Bottom of Test Pit at 10.0 Feet.

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Wood Rodgers, Inc.
 5440 Reno Corporate Drive
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 Telephone: 775-823-4068
 Fax: 775-823-4066

TEST PIT NUMBER TP-570+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 570+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5390 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		POORLY GRADED SAND WITH SILT AND GRAVEL, (SP-SM) gray, slightly moist, medium dense with some Cobbles to 12 and boulders to 20"	GB 570A	61							4.0	21	18	3	5.1
2.5		Brown, dense													
5.0		Moist													
7.5		CLAYEY SAND WITH GRAVEL, (SC) tan, slightly moist, medium dense	GB 570B												
		POORLY GRADED GRAVEL, (GP) tan, slightly moist, dense with some Cobbles to 12" and boulders to 15"													
10.0															

Refusal at 10.0 feet.
 Bottom of Test Pit at 10.0 Feet.



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TEST PIT NUMBER TP-590+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 590+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5301 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		CLAYEY GRAVEL WITH SAND, (GC) tan, slightly moist, dense with some Cobbles to 12 and boulders to 24"	GB 590A	30							11.8	39	25	14	12.1
2.5		Brown increasing cobbles													
5.0		CLAYEY GRAVEL, (GC) brown, slightly moist, dense with some Cobbles to 8"													
7.5		POORLY GRADED GRAVEL, (GP) brown, slightly moist, dense with some Cobbles to 12" and boulders to 20"													

Refusal at 9.0 feet.
 Bottom of Test Pit at 9.0 Feet.

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TEST PIT NUMBER TP-605+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom **CHECKED BY** Tom Harding
NOTES: STA: 605+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5249 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		GRAVELLY LEAN CLAY, (CL) brown, moist, stiff	GB 605A								14.2	46	18	28	76.7
2.5		POORLY GRADED GRAVEL, (GP) tan, slightly moist, dense with some Cobbles to 8													
5.0		Very dense													
7.5		Very dense													

Refusal at 9.0 feet.
 Bottom of Test Pit at 9.0 Feet.

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TEST PIT NUMBER TP-620+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 620+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5185 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
2.5		POORLY GRADED SAND WITH SILTY SAND, (SP-SM) tan, slightly moist, medium dense some Cobbles to 8"	GB 620A	55							22.1	32	27	5	8.8
5.0		Moist, increasing cobbles and boulders	GB 620B												
7.5		POORLY GRADED GRAVEL, (GP) tan, slightly moist, dense with some Cobbles to 12" and boulders to 18"													
10.0		GRAVELLY LEAN CLAY, (CL) brown, slightly moist, stiff													

Bottom of Test Pit at 10.0 Feet.

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Wood Rodgers, Inc.
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TEST PIT NUMBER TP-640+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 640+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5119 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		POORLY GRADED SAND WITH CLAY AND GRAVEL, (SP-SC) brown tan, slightly moist, dense with some Cobbles to 12" and boulders to 24"	GB 640A	44							7.0	31	20	11	11.7
2.5															
5.0		Very Dense													
7.5															

Refusal at 7.5 feet.
 Bottom of Test Pit at 7.5 Feet.



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TEST PIT NUMBER TP-655+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 655+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5051 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

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DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		SILTY SAND, (SM) brown, slightly moist, medium dense with some Cobbles to 12"	GB 655A	25							11.0	45	27	18	25.1
2.5		POORLY GRADED GRAVEL, (GP) brown, slightly moist, very dense with some Cobbles to 12" and boulders to 18"													
5.0															
7.5															

Refusal at 8.0 feet.
 Bottom of Test Pit at 8.0 Feet.



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TEST PIT NUMBER TP-670+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 670+00 @ CL

PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 5029 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION ---
AFTER EXCAVATION ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0															
		FILL - CLAYEY GRAVEL WITH SAND, (GW) tan, slightly moist, dense with some Cobbles to 8"	GB 670A	41							12.5	44	26	18	4.9
2.5		Boulders to 20"													
		Increasing to Cobbles, tan													
5.0															
7.5		POORLY GRADED GRAVEL WITH SAND, (GP) brown, slightly moist, very dense with some Cobbles to 12"													
10.0															

Bottom of Test Pit at 10.0 Feet.

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TEST PIT NUMBER TP-680+00

CLIENT Jacobs Engineering Group, Inc
PROJECT NUMBER 8480.001
DATE STARTED 10/23/12 **COMPLETED** 10/23/12
EXCAVATION CONTRACTOR Stampede
EXCAVATION METHOD Hitachi 330 LC
LOGGED BY Tom Harding **CHECKED BY** Tom Harding
NOTES: STA: 680+00 @ CL

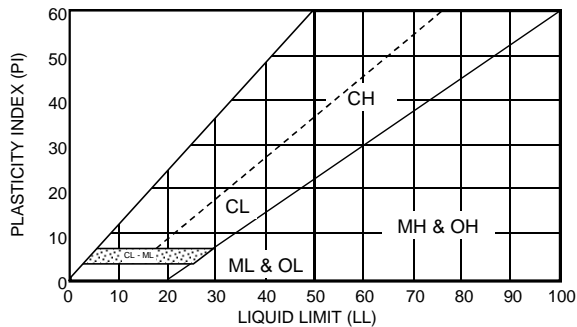
PROJECT NAME USA Parkway
PROJECT LOCATION See Site Plan
GROUND ELEVATION 4999 ft **TEST PIT SIZE** 24 inches
GROUND WATER LEVELS:
AT TIME OF EXCAVATION --- No Free Water Encountered
AT END OF EXCAVATION --- No Free Water Encountered
AFTER EXCAVATION --- No Free Water Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	R-VALUE	DIRECT SHEAR		MAX DRY DENSITY		STRIKE DEGREES	DIP DEGREES	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
					C PSF	DEGREE	PCF	% MOISTURE				LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		SILTY SAND WITH GRAVEL, (SM) tan brown, slightly moist, medium dense Cobbles to 12" and Boulders to 15													
2.5		Boulders to 24"	GB 680A	55							13.4	32	27	5	12.7
5.0		Tan - Brown													
7.5															
10.0															

Bottom of Test Pit at 10.0 Feet.

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MAJOR DIVISION					TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVEL MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN SANDS WITH LITTLE OR NO FINES		GW	WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH OVER 12% FINES		GP	POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
				GM	SILTY GRAVELS, SILTY GRAVELS WITH SAND
				GC	CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
	SAND MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS WITH LITTLE OR NO FINES		SW	WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH OVER 12% FINES		SP	POORLY GRADED SAND WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
				SM	SILTY SANDS WITH OR WITHOUT GRAVEL
				SC	CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILT AND CLAY LIQUID LIMIT 50% OR LESS			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS
				OL	ORGANIC SILTS OR CLAYS OF LOW PLASTICITY
	SILT AND CLAY LIQUID LIMIT GREATER THAN 50%			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOLID, ELASTIC SILTS
				CH	INORGANIC CLAYS OR HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC SILTS OR CLAYS MEDIUM TO HIGH PLASTICITY
	HIGHLY ORGANIC SOILS				Pt



CONSISTENCY		RELATIVE DENSITY	
SILTS & CLAYS	SPT BLOW* COUNTS (N)	SANDS & GRAVELS	SPT BLOW* COUNTS (N)
VERY SOFT	0 - 2	VERY LOOSE	0 - 4
SOFT	3 - 4	LOOSE	5 - 10
MEDIUM STIFF	5 - 8	MEDIUM DENSE	11 - 30
STIFF	9 - 15	DENSE	31 - 50
VERY STIFF	16 - 30	VERY DENSE	50 +
HARD	30 +		

* The Standard Penetration Resistance (N) In blows per foot is obtained by the ASTM D1585 procedure using 2" O.D., 1 3/8" I.D. samplers.

DESCRIPTION OF ESTIMATED PERCENTAGES OF GRAVEL, SAND, AND FINES	
TRACE	Particles are present but est. < 5%
FEW	5% - 10%
LITTLE	15% - 20%
SOME	30% - 45%
MOSTLY	50% - 100%

NOTE: Percentages are presented within soil description for soil horizon with laboratory tested soil samples.

DEFINITIONS OF SOIL FRACTIONS	
SOIL COMPONENT	PARTICLE SIZE RANGE
COBBLES	ABOVE 3 INCHES
GRAVEL	3 IN. TO NO. 4 SIEVE
COARSE GRAVEL	3 IN. TO 3/4 IN.
FINE GRAVEL	3/4 IN. TO NO. 4 SIEVE
SAND	NO. 4 TO NO. 200
COARSE SAND	NO. 4 TO NO. 10
MEDIUM SAND	NO. 10 TO NO. 40
FINE SAND	NO. 40 TO NO. 200
FINES (SILT OR CLAY)	MINUS NO. 200 SIEVE



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**UNIFIED SOIL
CLASSIFICATION
AND
KEY TO SOIL DESCRIPTIONS**

Geotechnical Investigation

*USA Parkway Extension
I-80 to US 50*

Project No.: 8480.001
Date: 4.30.13

**PLATE
A-3**



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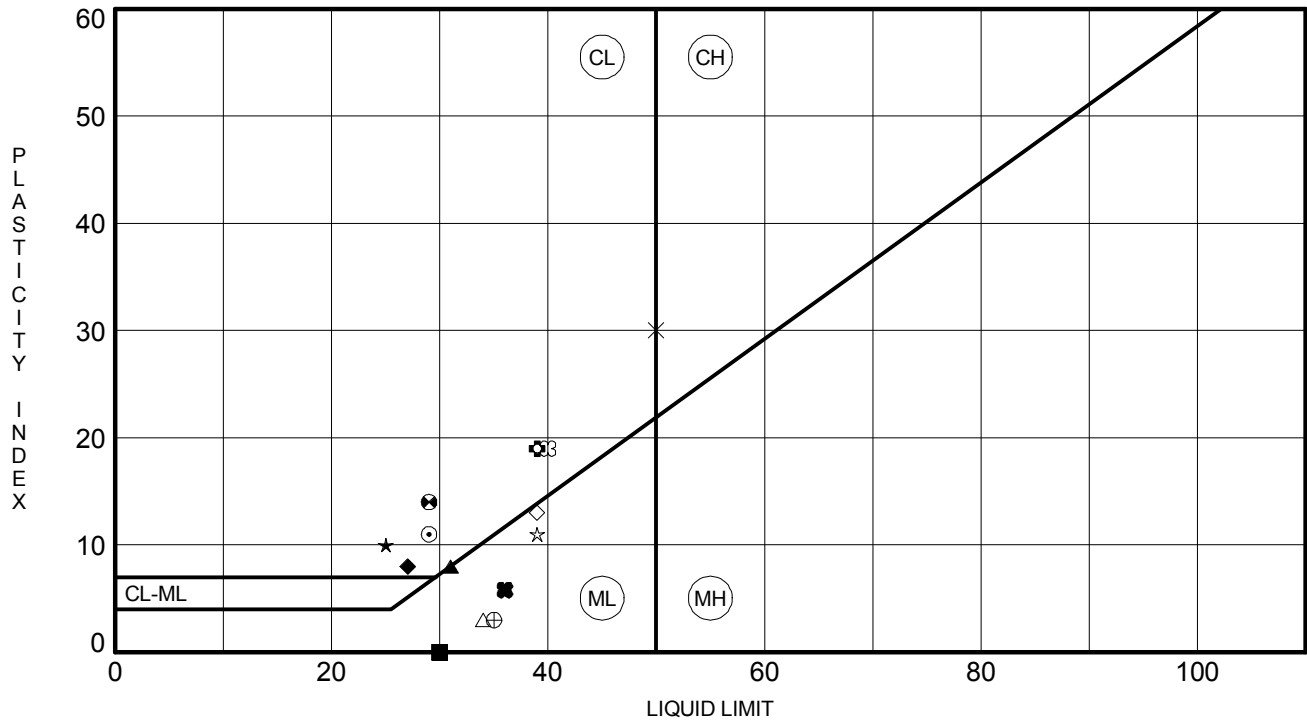
ATTERBERG LIMITS' RESULTS

CLIENT Jacobs Engineering Group, Inc

PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



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TEST PIT	DEPTH	LL	PL	PI	Fines	Classification
● TP-15+00	1.0	30	30	NP	18	SILTY SAND(SM)
☒ TP-25+00	1.0	30	30	NP	18	SILTY SAND(SM)
▲ TP-35+00	4.0	31	23	8	5	WELL-GRADED GRAVEL with SAND(GW)
★ TP-45+00	3.0	25	15	10	2	POORLY GRADED SAND with GRAVEL(SP)
⊙ TP-55+00	3.0	29	18	11	7	WELL-GRADED GRAVEL with CLAY and SAND(GW-GC)
⊕ TP-65+00	3.0	39	20	19	34	CLAYEY SAND with GRAVEL(SC)
○ TP-75+00	4.0	30	30	NP	4	POORLY GRADED GRAVEL with SAND(GP)
△ TP-85+00	2.0	34	31	3	5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)
⊗ TP-95+00	1.5	30	30	NP	8	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)
⊕ TP-105+00	2.0	35	32	3	40	SILTY SAND(SM)
□ TP-115+00	5.0	30	30	NP	19	SILTY SAND(SM)
⊕ TP-125+00	0.0	29	15	14	47	CLAYEY SAND(SC)
⊕ TP-125+00	2.0	30	30	NP	7	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)
★ TP-135+00	1.0	39	28	11	30	SILTY SAND with GRAVEL(SM)
⊗ TP-145+00	1.0	40	21	19	38	CLAYEY SAND with GRAVEL(SC)
■ TP-145+00	3.5	30	30	NP	4	POORLY GRADED SAND with GRAVEL(SP)
◆ TP-170+00	0.0	27	19	8	44	CLAYEY SAND with GRAVEL(SC)
◇ TP-190	0.0	39	26	13	48	SILTY SAND(SM)
× TP-215+00	0.0	50	20	30	58	SANDY FAT CLAY(CH)
⊕ TP-225+00	4.0	36	30	6	10	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)



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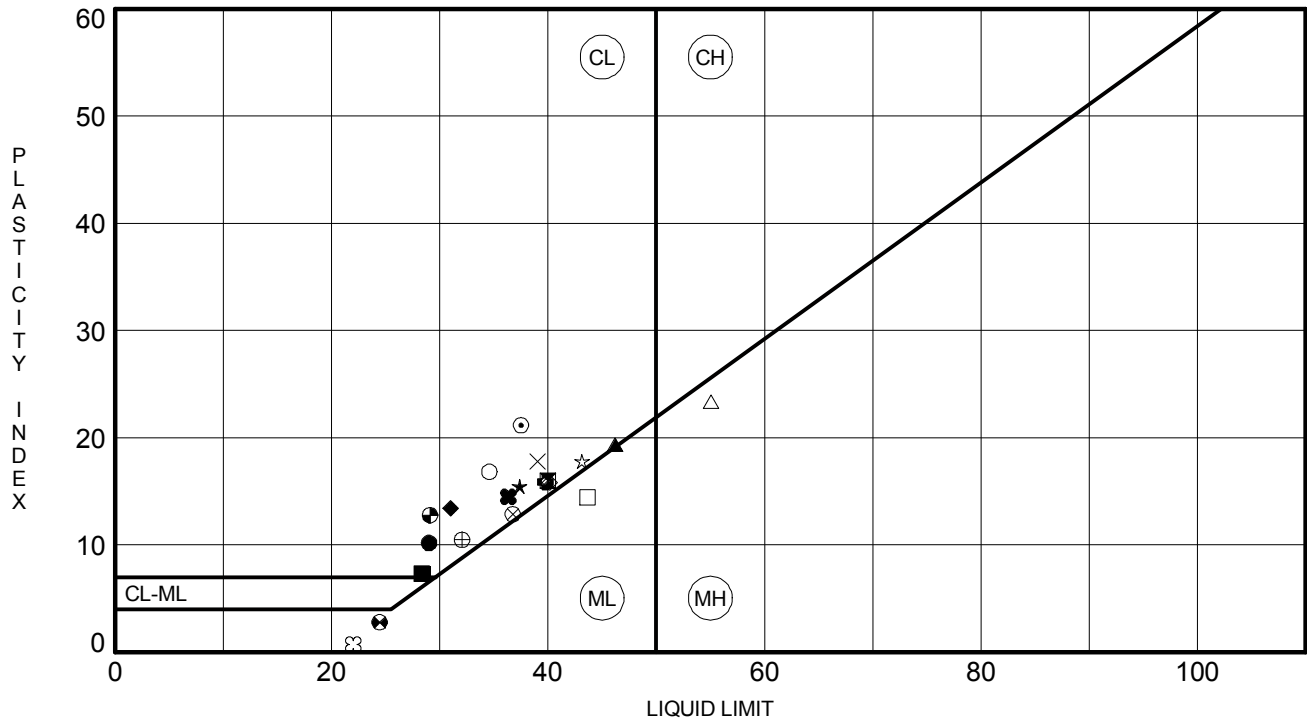
ATTERBERG LIMITS' RESULTS

CLIENT Jacobs Engineering Group, Inc

PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



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TEST PIT	DEPTH	LL	PL	PI	Fines	Classification
● TP-230+00	10.0	29	19	10	7	WELL-GRADED GRAVEL with CLAY and SAND(GW-GC)
☒ TP-230A	9.0	40	24	16	14	CLAYEY SAND with GRAVEL(SC)
▲ TP-235+00	3.0	46	27	19	6	POORLY GRADED SAND with CLAY and GRAVEL(SP-SC)
★ TP-235A	15.0	37	22	15	21	CLAYEY SAND(SC)
⊙ TP-255+00	0.0	37	16	21	43	CLAYEY SAND with GRAVEL(SC)
⊕ TP-275+00	0.0	40	24	16	48	CLAYEY SAND(SC)
○ TP-295+00	0.0	35	18	17	49	CLAYEY SAND(SC)
△ TP-310+00	4.0	55	32	23	10	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)
⊗ TP-315	6.0	37	24	13	14	CLAYEY GRAVEL with SAND(GC)
⊕ TP-330+00	18.0	32	22	10	6	POORLY GRADED GRAVEL with CLAY and SAND(GP-GC)
□ TP-330A	10.0	44	29	15	6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)
⊕ TP-330B	8.0	24	22	2	32	SILTY SAND(SM)
⊕ TP-330B	13.0	29	16	13	33	CLAYEY GRAVEL with SAND(GC)
★ TP-330C	3.0	43	25	18	45	CLAYEY SAND with GRAVEL(SC)
⊗ TP-335+00	4.0	22	21	1	26	SILTY SAND with GRAVEL(SM)
■ TP-345A	2.0	28	21	7	17	SILTY, CLAYEY SAND with GRAVEL(SC-SM)
◆ TP-345B	5.0	31	18	13	35	CLAYEY SAND with GRAVEL(SC)
◇ TP-355+00	2.0	40	24	16	6	POORLY GRADED GRAVEL with CLAY and SAND(GP-GC)
× TP-385+00	0.0	39	21	18	58	SANDY LEAN CLAY(CL)
⊕ TP-405+00	13.0	36	22	14	17	CLAYEY GRAVEL with SAND(GC)



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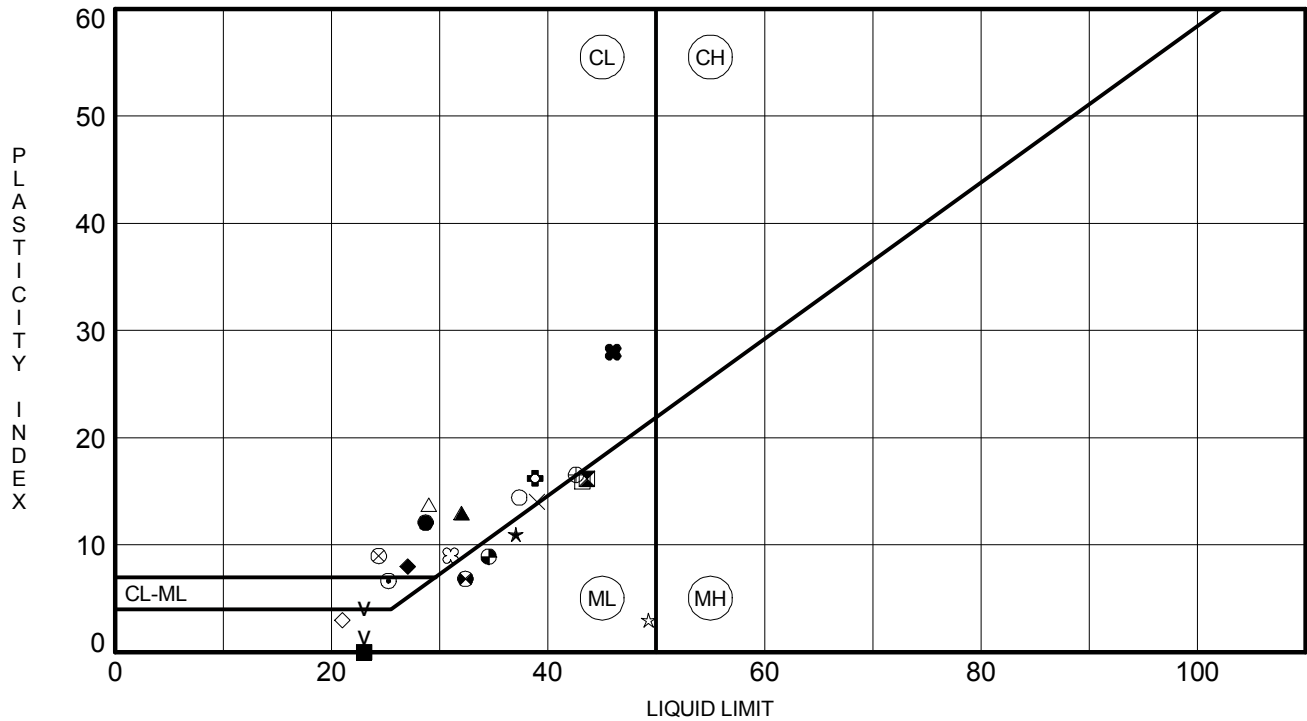
ATTERBERG LIMITS' RESULTS

CLIENT Jacobs Engineering Group, Inc

PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



ATTERBERG LIMITS - GINT STD US LAB.GDT - 3/4/13 13:12 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ

TEST PIT	DEPTH	LL	PL	PI	Fines	Classification
● TP-405A	3.0	29	17	12	6	WELL-GRADED SAND with CLAY and GRAVEL(SW-SC)
☒ TP-415+00	12.0	44	27	17	7	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)
▲ TP-420A	1.0	32	19	13	37	CLAYEY SAND with GRAVEL(SC)
★ TP-425+00	1.0	37	26	11	21	SILTY GRAVEL with SAND(GM)
⊕ TP-435A	8.0	25	19	6	6	POORLY GRADED SAND with SILTY CLAY and GRAVEL(SP-SC)
⊕ TP-435B	0.0	39	23	16	17	CLAYEY GRAVEL with SAND(GC)
○ TP-440+00	10.0	37	23	14	27	CLAYEY SAND(SC)
△ TP-450+00	4.0	29	15	14	7	POORLY GRADED SAND with CLAY and GRAVEL(SP-SC)
⊗ TP-455A	7.0	24	15	9	5	WELL-GRADED SAND with CLAY and GRAVEL(SW-SC)
⊕ TP-465+00	0.0	43	26	17	25	CLAYEY GRAVEL with SAND(GC)
□ TP-475+00	1.0	43	27	16	23	SILTY SAND with GRAVEL(SM)
⊕ TP-490+00	0.0	32	26	6	9	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)
⊕ TP-510+00	1.0	35	26	9	7	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)
★ TP-525+00	1.0	49	46	3	8	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)
⊗ TP-535+00	2.0	31	22	9	9	CLAYEY GRAVEL with SAND(GC)
■ TP-545+00	0.0	23	24	NP	5	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)
◆ TP-555+00	1.0	27	19	8	16	CLAYEY SAND with GRAVEL(SC)
◇ TP-570+00	0.0	21	18	3	5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)
× TP-590+00	0.0	39	25	14	12	CLAYEY GRAVEL with SAND(GC)
⊕ TP-605+00	0.0	46	18	28	77	LEAN CLAY with SAND(CL)



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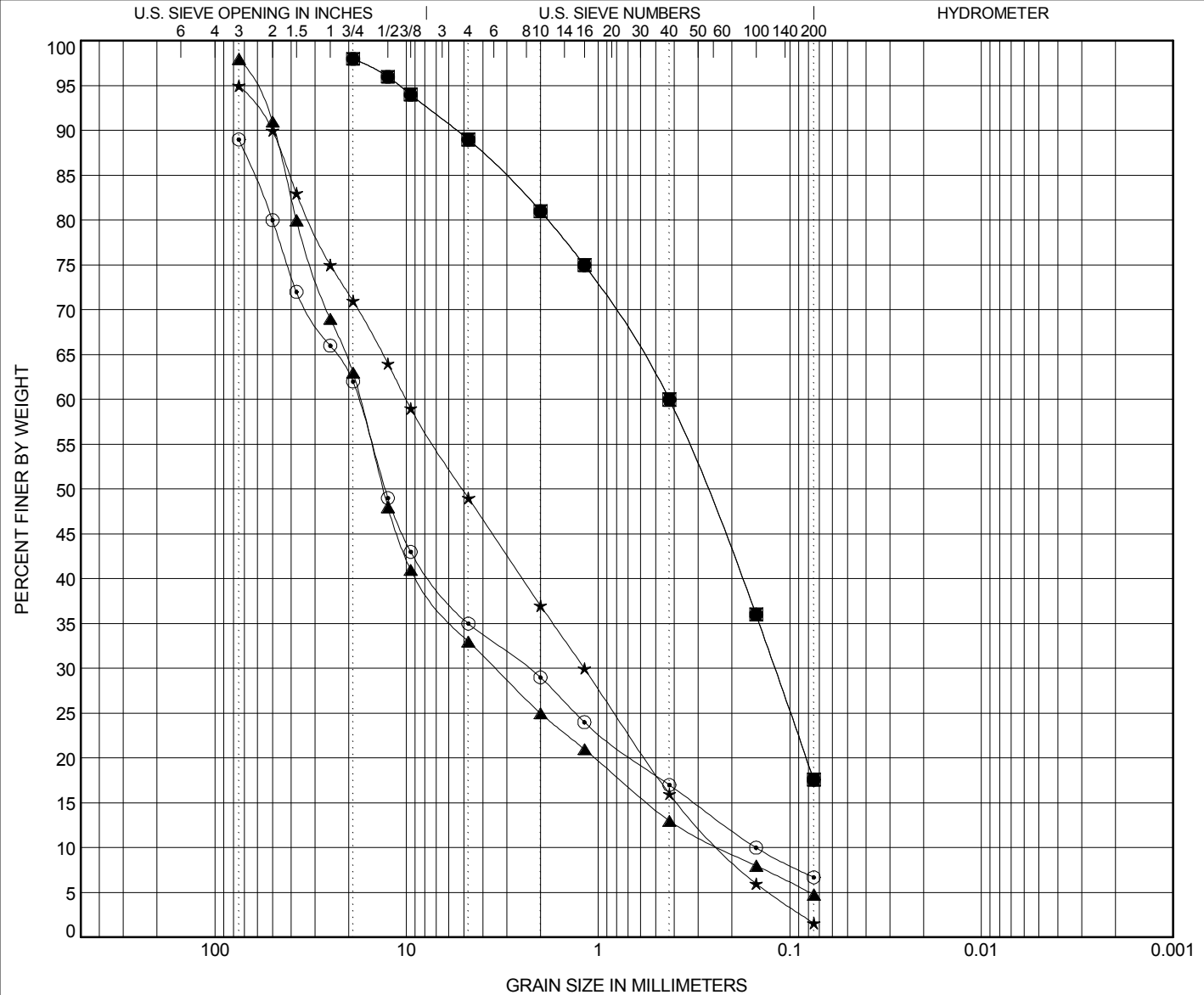
GRAIN SIZE DISTRIBUTION

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PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-15+00	1.0	SILTY SAND(SM)					30	30	NP		
☒ TP-25+00	1.0	SILTY SAND(SM)					30	30	NP		
▲ TP-35+00	4.0	WELL-GRADED GRAVEL with SAND(GW)					31	23	8	2.97	76.80
★ TP-45+00	3.0	POORLY GRADED SAND with GRAVEL(SP)					25	15	10	0.61	44.11
⊙ TP-55+00	3.0	WELL-GRADED GRAVEL with CLAY and SAND(GW-GC)					29	18	11	2.00	118.76
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-15+00	1.0	19	0.425	0.12		9.0	71.4	17.6			
☒ TP-25+00	1.0	19	0.425	0.12		9.0	71.4	17.6			
▲ TP-35+00	4.0	75	17.474	3.434	0.228	65.0	28.2	4.8			
★ TP-45+00	3.0	75	10.036	1.18	0.228	46.0	47.4	1.6			
⊙ TP-55+00	3.0	75	17.815	2.31	0.15	54.0	28.3	6.7			

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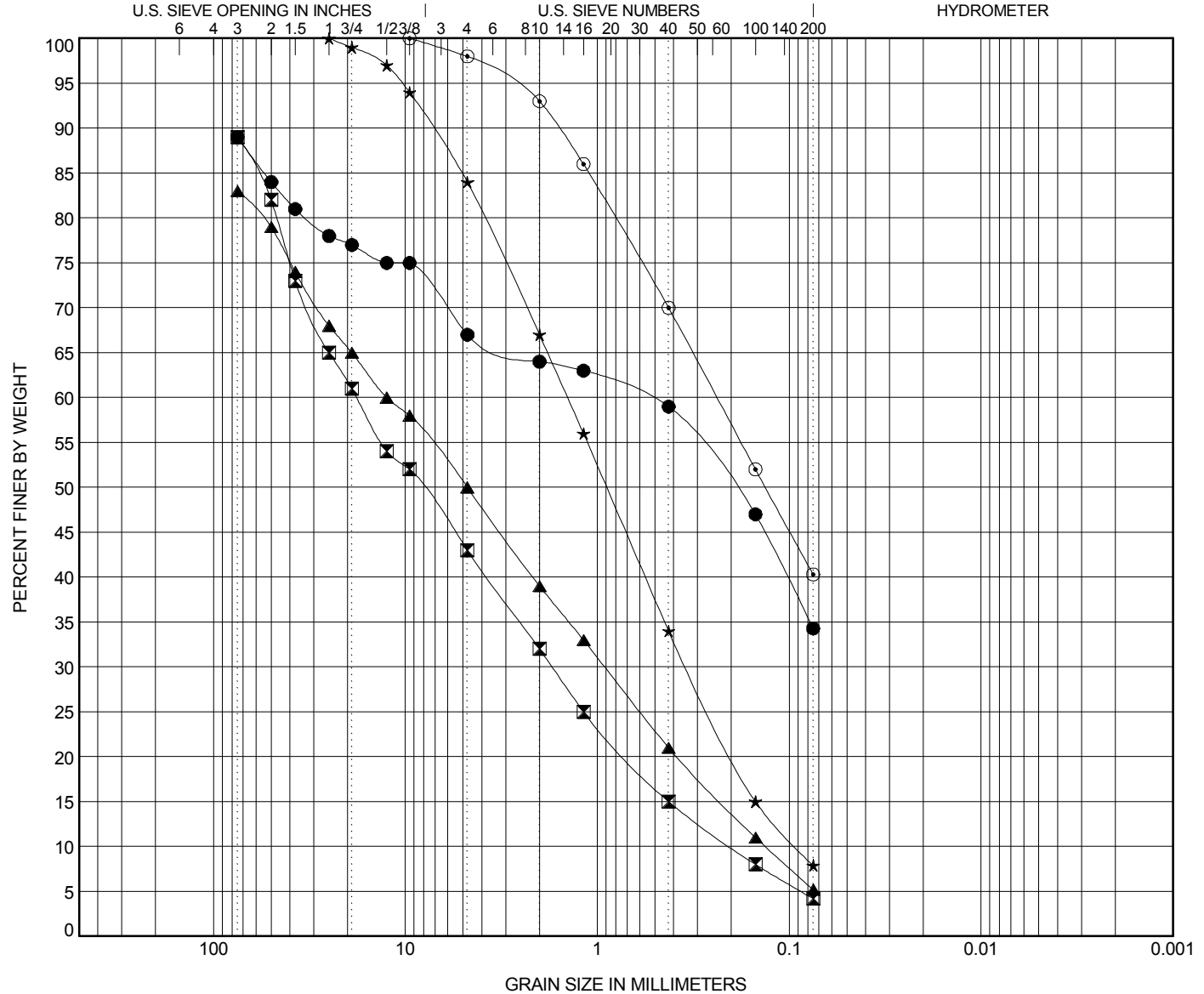
GRAIN SIZE DISTRIBUTION

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PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification	LL	PL	PI	Cc	Cu
● TP-65+00	3.0	CLAYEY SAND with GRAVEL(SC)	39	20	19		
☒ TP-75+00	4.0	POORLY GRADED GRAVEL with SAND(GP)	30	30	NP	0.82	88.60
▲ TP-85+00	2.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	34	31	3	0.50	93.91
★ TP-95+00	1.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	30	30	NP	0.89	15.53
⊙ TP-105+00	2.0	SILTY SAND(SM)	35	32	3		

TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● TP-65+00	3.0	75	0.549			22.0	32.7	34.3	
☒ TP-75+00	4.0	75	17.897	1.72	0.202	46.0	38.8	4.2	
▲ TP-85+00	2.0	75	12.5	0.914	0.133	33.0	44.8	5.2	
★ TP-95+00	1.5	25	1.43	0.341	0.092	16.0	76.1	7.9	
⊙ TP-105+00	2.0	9.5	0.238			2.0	57.7	40.3	

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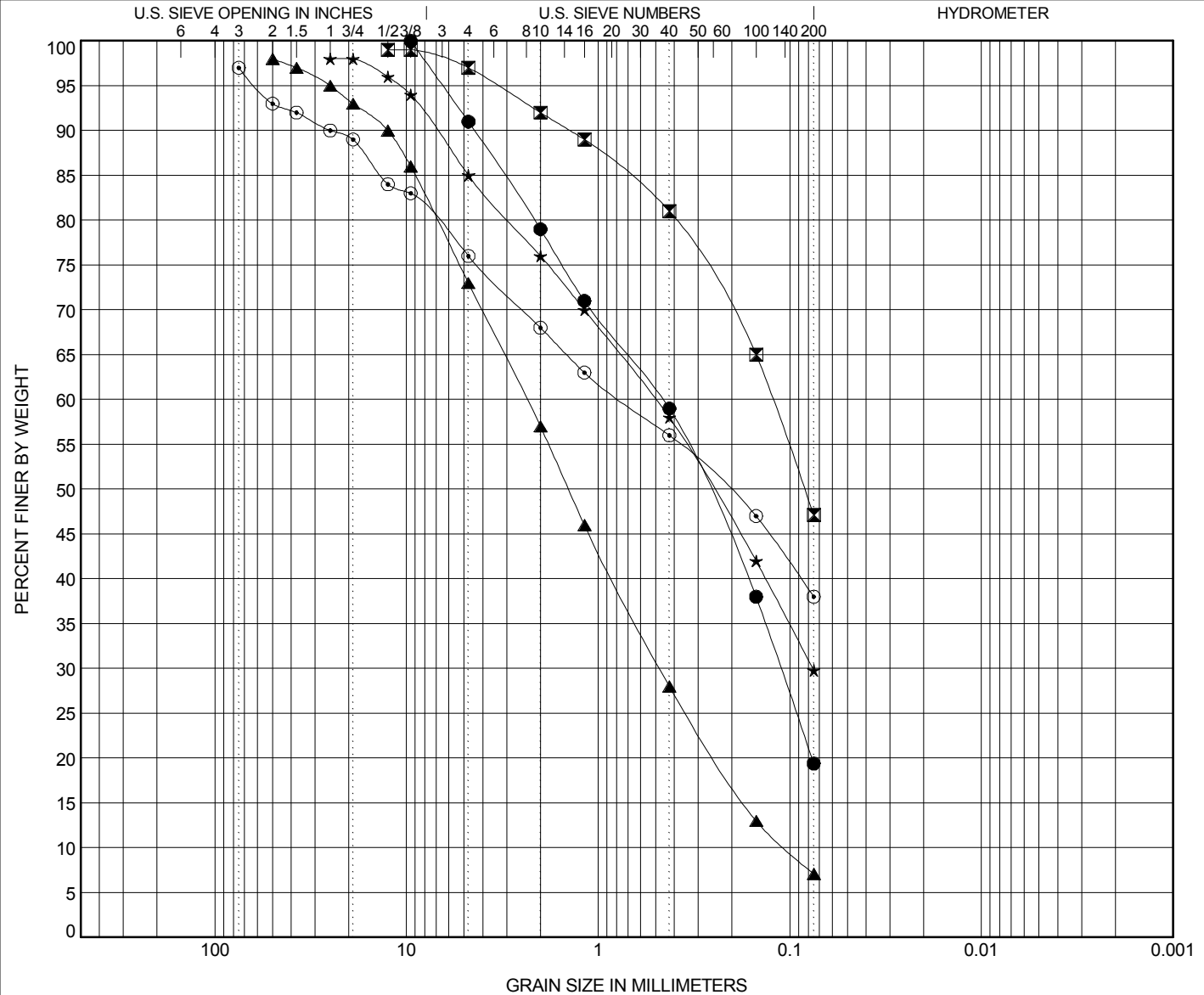
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PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-115+00	5.0	SILTY SAND(SM)					30	30	NP		
☒ TP-125+00	0.0	CLAYEY SAND(SC)					29	15	14		
▲ TP-125+00	2.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)					30	30	NP	0.91	22.31
★ TP-135+00	1.0	SILTY SAND with GRAVEL(SM)					39	28	11		
⊙ TP-145+00	1.0	CLAYEY SAND with GRAVEL(SC)					40	21	19		
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-115+00	5.0	9.5	0.463	0.111		9.0	71.6	19.4			
☒ TP-125+00	0.0	12.5	0.124			2.0	49.9	47.1			
▲ TP-125+00	2.0	50	2.352	0.476	0.105	25.0	65.9	7.1			
★ TP-135+00	1.0	25	0.504	0.076		13.0	55.2	29.8			
⊙ TP-145+00	1.0	75	0.762			21.0	38.0	38.0			

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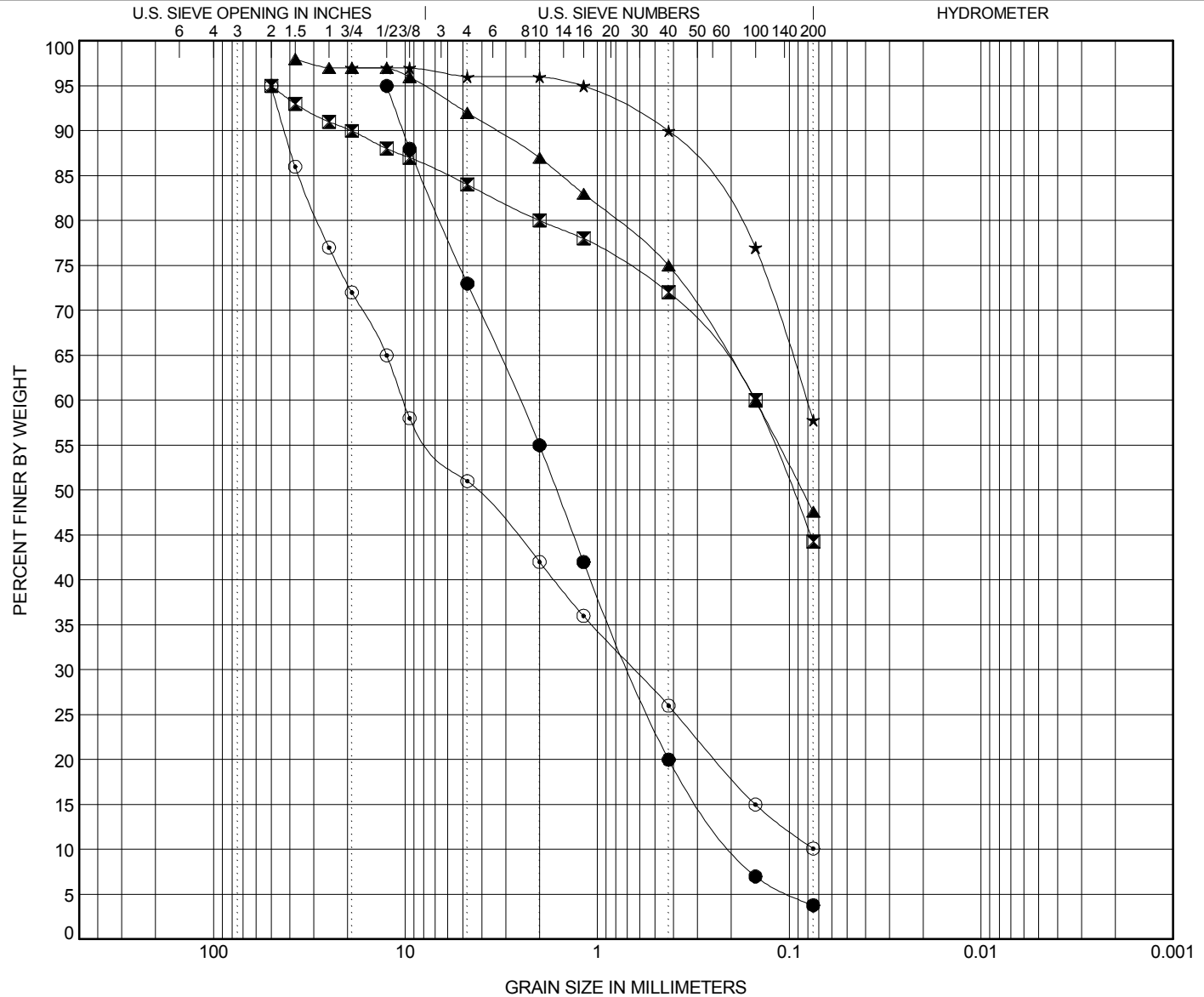
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PROJECT NAME USA Parkway

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PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-145+00	3.5	POORLY GRADED SAND with GRAVEL(SP)					30	30	NP	0.94	13.33
▣ TP-170+00	0.0	CLAYEY SAND with GRAVEL(SC)					27	19	8		
▲ TP-190	0.0	SILTY SAND(SM)					39	26	13		
★ TP-215+00	0.0	SANDY FAT CLAY(CH)					50	20	30		
⊙ TP-225+00	4.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)					36	30	6	0.54	138.95
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-145+00	3.5	12.5	2.543	0.676	0.191	22.0	69.2	3.8			
▣ TP-170+00	0.0	50	0.15			11.0	39.7	44.3			
▲ TP-190	0.0	37.5	0.15			6.0	44.4	47.6			
★ TP-215+00	0.0	19	0.081			1.0	38.2	57.8			
⊙ TP-225+00	4.0	50	10.275	0.639		44.0	40.9	10.1			

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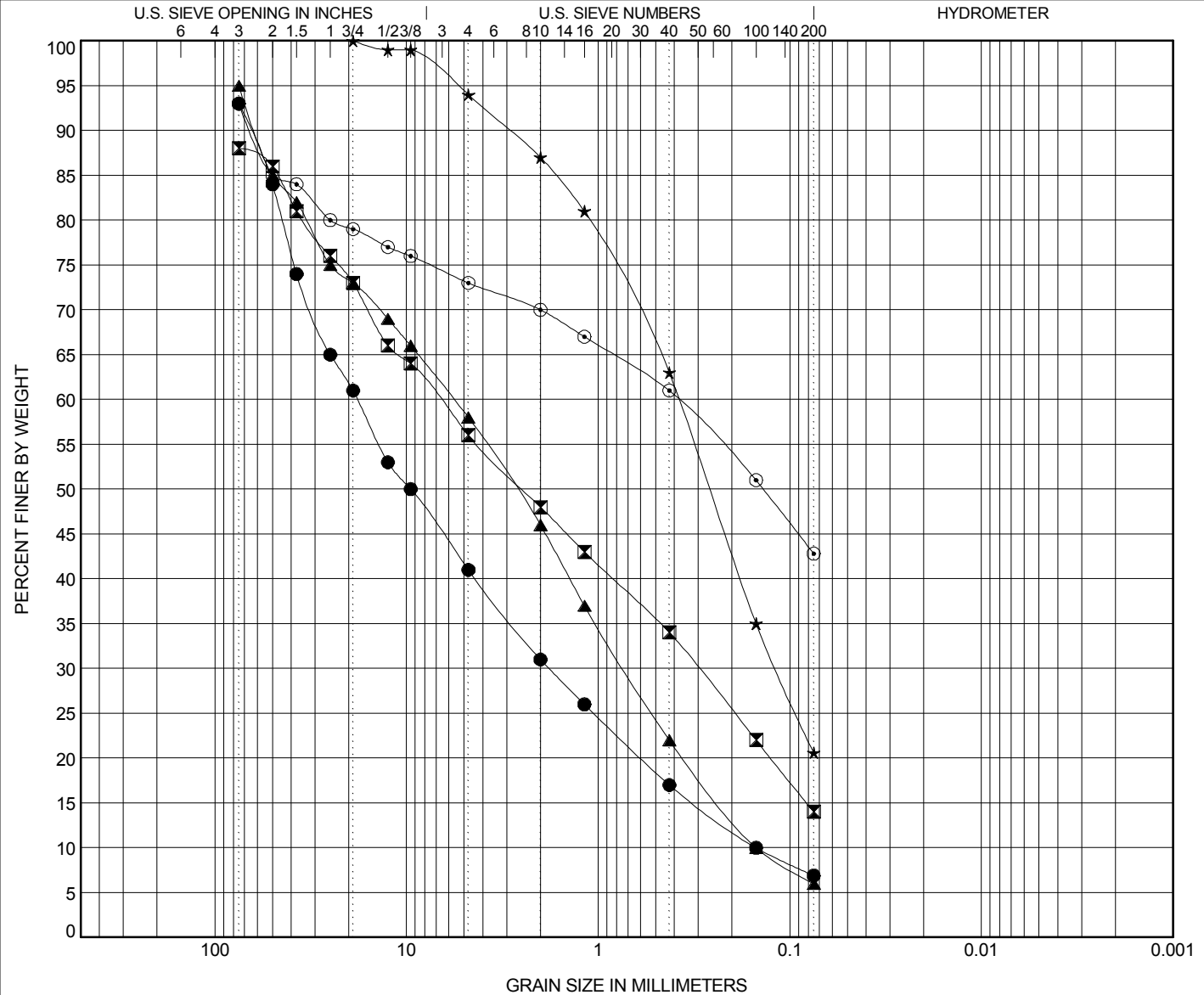
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PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification	LL	PL	PI	Cc	Cu
● TP-230+00	10.0	WELL-GRADED GRAVEL with CLAY and SAND(GW-GC)	29	19	10	1.20	120.21
⊠ TP-230A	9.0	CLAYEY SAND with GRAVEL(SC)	40	24	16		
▲ TP-235+00	3.0	POORLY GRADED SAND with CLAY and GRAVEL(SP-SC)	46	27	19	0.63	37.66
★ TP-235A	15.0	CLAYEY SAND(SC)	37	22	15		
○ TP-255+00	0.0	CLAYEY SAND with GRAVEL(SC)	37	16	21		

TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● TP-230+00	10.0	75	18.031	1.8	0.15	52.0	34.1	6.9	
⊠ TP-230A	9.0	75	6.718	0.3		32.0	42.0	14.0	
▲ TP-235+00	3.0	75	5.649	0.733	0.15	37.0	52.0	6.0	
★ TP-235A	15.0	19	0.38	0.118		6.0	73.4	20.6	
○ TP-255+00	0.0	75	0.383			20.0	30.2	42.8	

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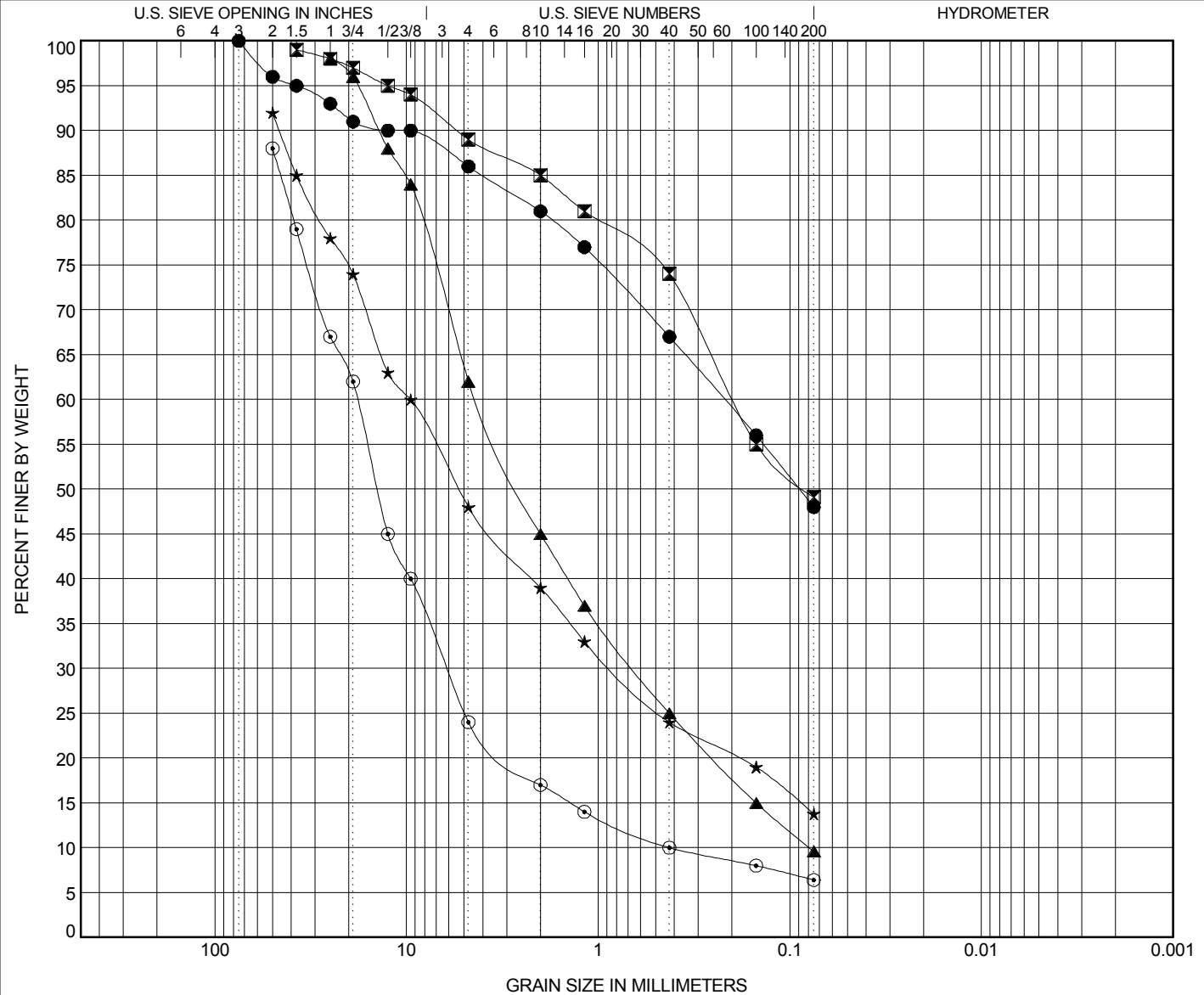
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PROJECT NAME USA Parkway

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PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-275+00	0.0	CLAYEY SAND(SC)					40	24	16		
☒ TP-295+00	0.0	CLAYEY SAND(SC)					35	18	17		
▲ TP-310+00	4.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)					55	32	23	1.25	54.34
★ TP-315	6.0	CLAYEY GRAVEL with SAND(GC)					37	24	13		
⊙ TP-330+00	18.0	POORLY GRADED GRAVEL with CLAY and SAND(GP-GC)					32	22	10	4.94	42.56
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-275+00	0.0	75	0.219			14.0	38.0	48.0			
☒ TP-295+00	0.0	37.5	0.197			10.0	39.9	49.1			
▲ TP-310+00	4.0	25	4.29	0.65	0.079	36.0	52.4	9.6			
★ TP-315	6.0	50	9.5	0.84		44.0	34.2	13.8			
⊙ TP-330+00	18.0	50	18.087	6.16	0.425	64.0	17.6	6.4			

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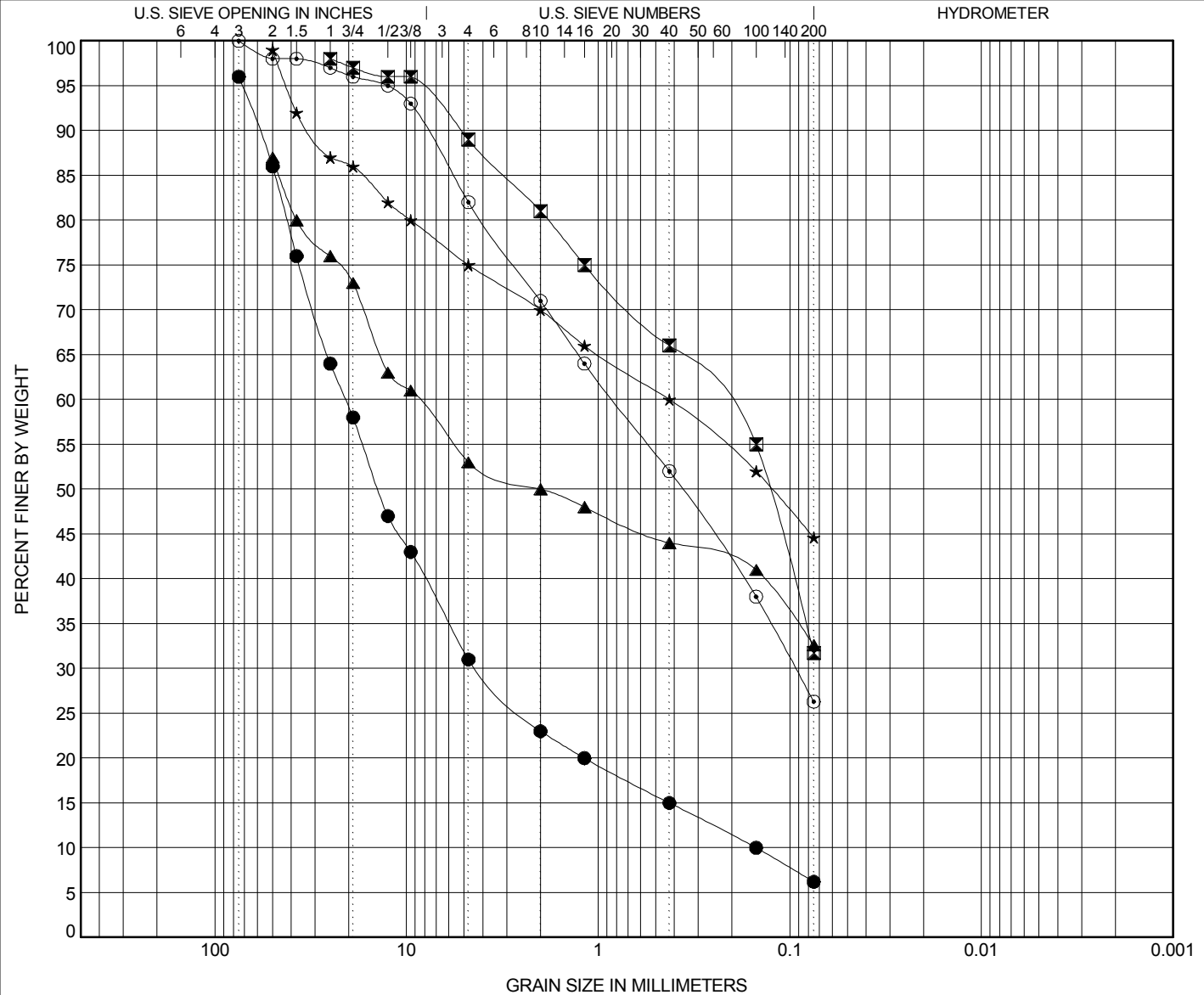
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PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-330A	10.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)					44	29	15	5.82	138.80
☒ TP-330B	8.0	SILTY SAND(SM)					24	22	2		
▲ TP-330B	13.0	CLAYEY GRAVEL with SAND(GC)					29	16	13		
★ TP-330C	3.0	CLAYEY SAND with GRAVEL(SC)					43	25	18		
⊙ TP-335+00	4.0	SILTY SAND with GRAVEL(SM)					22	21	1		
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-330A	10.0	75	20.82	4.263	0.15	65.0	24.8	6.2			
☒ TP-330B	8.0	25	0.241			9.0	57.3	31.7			
▲ TP-330B	13.0	50	8.712			34.0	20.4	32.6			
★ TP-330C	3.0	50	0.425			24.0	30.4	44.6			
⊙ TP-335+00	4.0	75	0.84	0.093		18.0	55.7	26.3			

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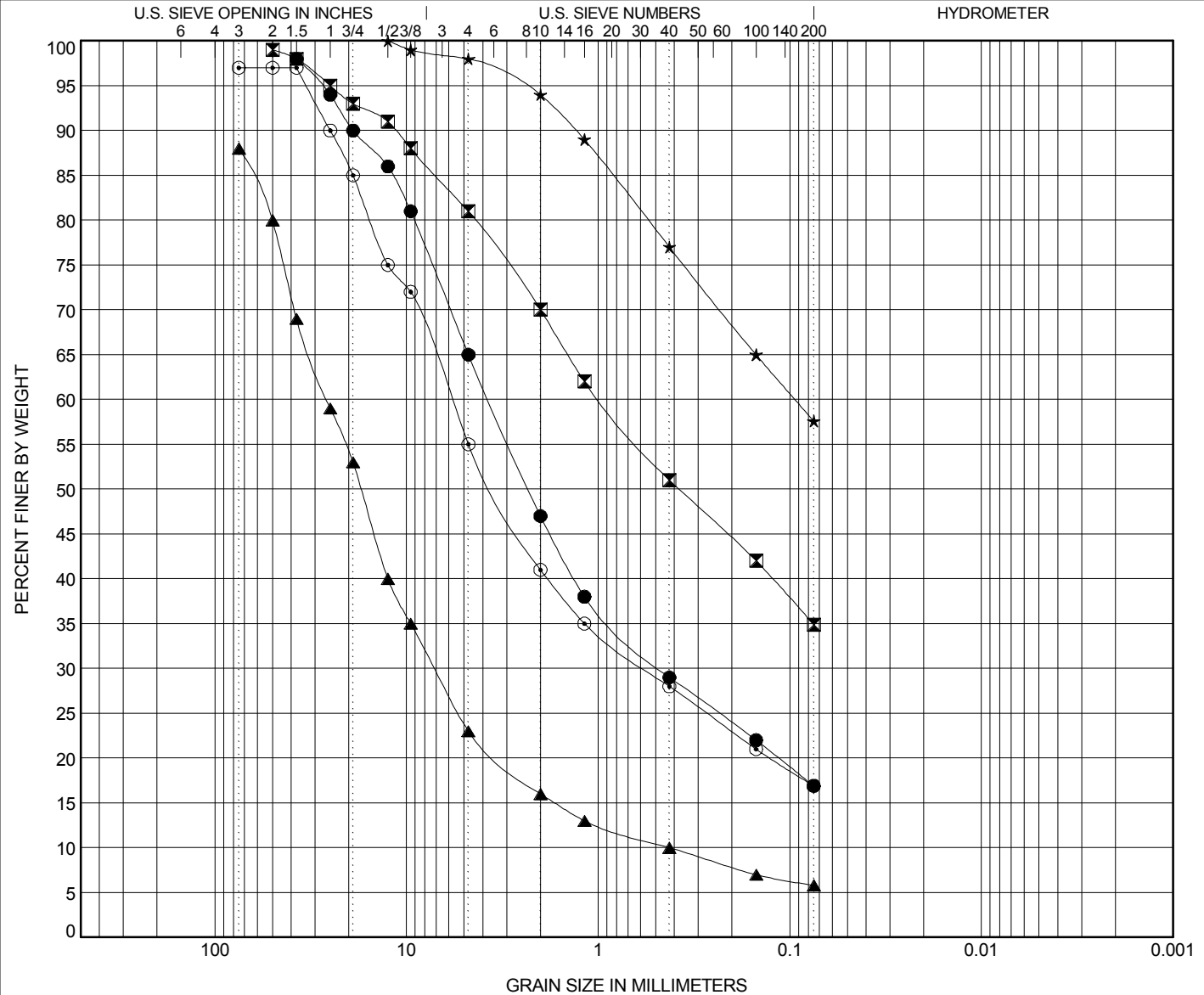
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PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-345A	2.0	SILTY, CLAYEY SAND with GRAVEL(SC-SM)					28	21	7		
■ TP-345B	5.0	CLAYEY SAND with GRAVEL(SC)					31	18	13		
▲ TP-355+00	2.0	POORLY GRADED GRAVEL with CLAY and SAND(GP-GC)					40	24	16	4.58	61.26
★ TP-385+00	0.0	SANDY LEAN CLAY(CL)					39	21	18		
○ TP-405+00	13.0	CLAYEY GRAVEL with SAND(GC)					36	22	14		
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-345A	2.0	37.5	3.735	0.476		33.0	48.1	16.9			
■ TP-345B	5.0	50	0.98			18.0	46.1	34.9			
▲ TP-355+00	2.0	75	26.034	7.117	0.425	65.0	17.2	5.8			
★ TP-385+00	0.0	12.5	0.094			2.0	40.4	57.6			
○ TP-405+00	13.0	75	5.824	0.569		42.0	38.1	16.9			

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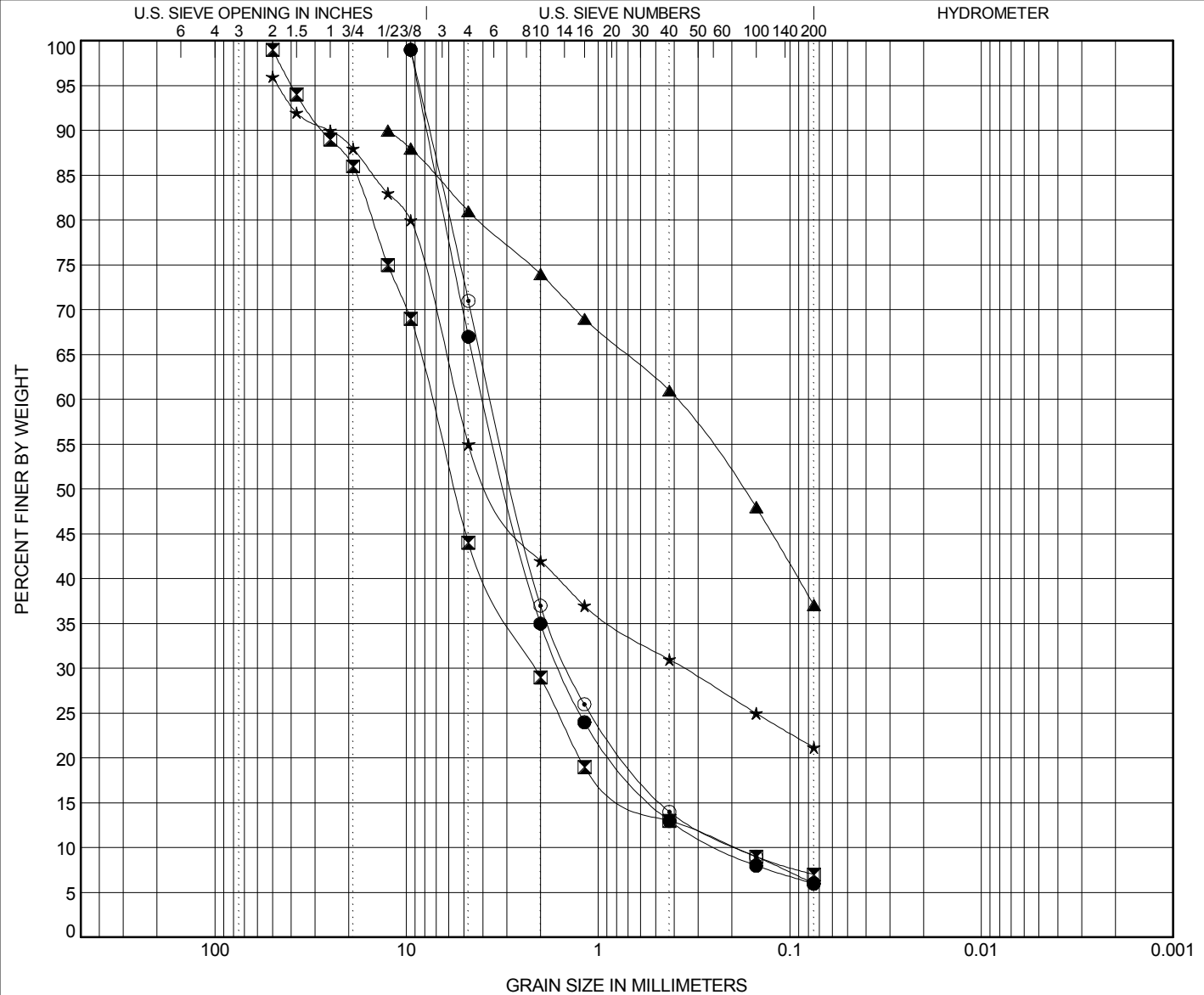
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PROJECT NAME USA Parkway

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PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-405A	3.0	WELL-GRADED SAND with CLAY and GRAVEL(SW-SC)					29	17	12	2.77	17.28
☒ TP-415+00	12.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)					44	27	17	3.12	38.04
▲ TP-420A	1.0	CLAYEY SAND with GRAVEL(SC)					32	19	13		
★ TP-425+00	1.0	SILTY GRAVEL with SAND(GM)					37	26	11		
⊙ TP-435A	8.0	POORLY GRADED SAND with SILTY CLAY and GRAVEL(SP-SC)					25	19	6	3.08	19.44
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-405A	3.0	9.5	3.931	1.574	0.228	32.0	61.0	6.0			
☒ TP-415+00	12.0	50	7.402	2.119	0.195	55.0	37.0	7.0			
▲ TP-420A	1.0	12.5	0.392			9.0	43.9	37.1			
★ TP-425+00	1.0	50	5.456	0.357		41.0	33.8	21.2			
⊙ TP-435A	8.0	9.5	3.591	1.43	0.185	28.0	65.0	6.0			

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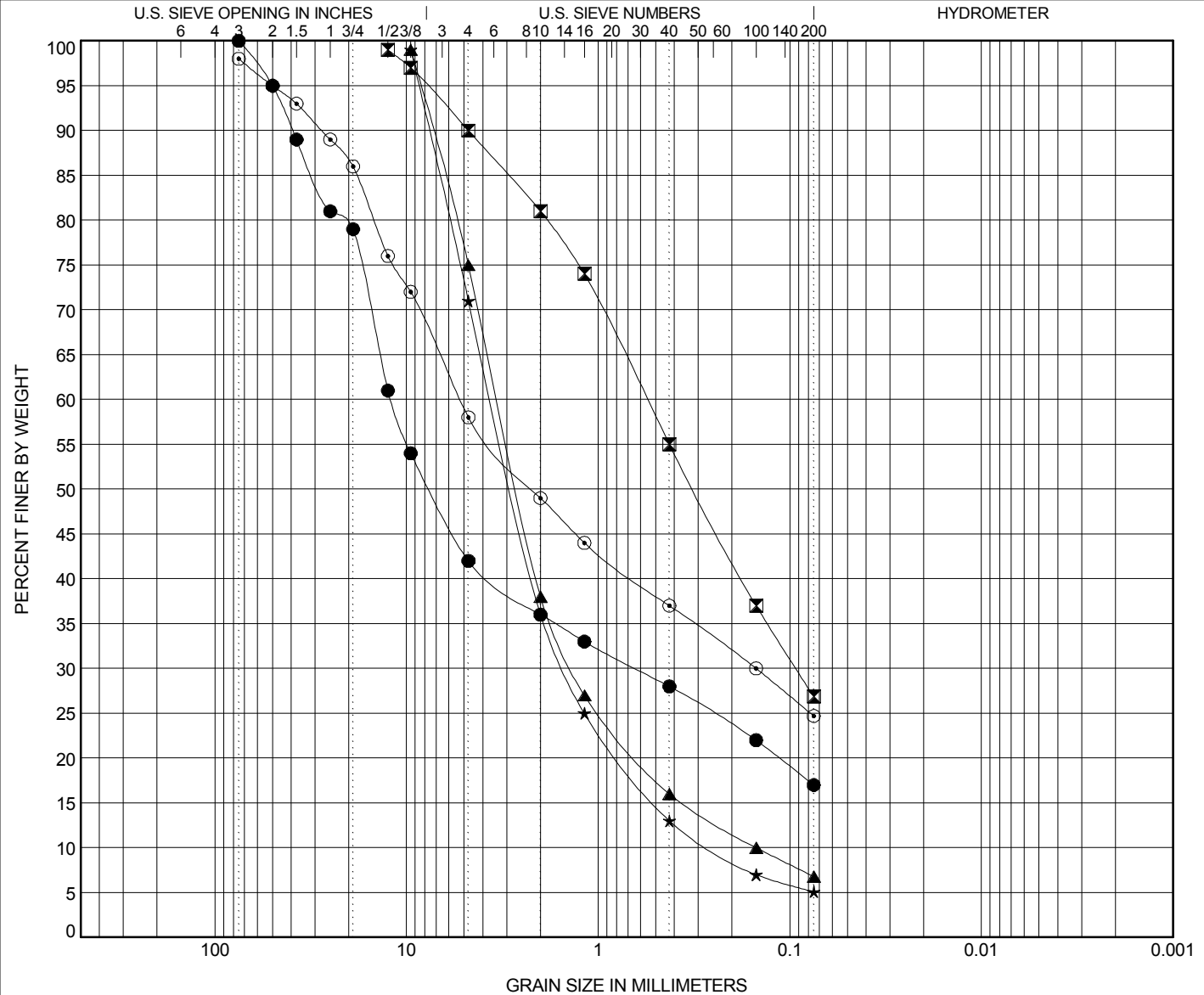
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PROJECT NAME USA Parkway

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PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-435B	0.0	CLAYEY GRAVEL with SAND(GC)					39	23	16		
☒ TP-440+00	10.0	CLAYEY SAND(SC)					37	23	14		
▲ TP-450+00	4.0	POORLY GRADED SAND with CLAY and GRAVEL(SP-SC)					29	15	14	3.70	22.30
★ TP-455A	7.0	WELL-GRADED SAND with CLAY and GRAVEL(SW-SC)					24	15	9	2.46	14.33
⊙ TP-465+00	0.0	CLAYEY GRAVEL with SAND(GC)					43	26	17		
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-435B	0.0	75	12.019	0.639		58.0	25.0	17.0			
☒ TP-440+00	10.0	12.5	0.556	0.093		9.0	63.1	26.9			
▲ TP-450+00	4.0	9.5	3.345	1.363	0.15	24.0	68.2	6.8			
★ TP-455A	7.0	9.5	3.619	1.5	0.252	28.0	65.9	5.1			
⊙ TP-465+00	0.0	75	5.244	0.15		40.0	33.3	24.7			

GRAIN SIZE - GINT STD US LAB.GDT - 3/4/13 13:12 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ



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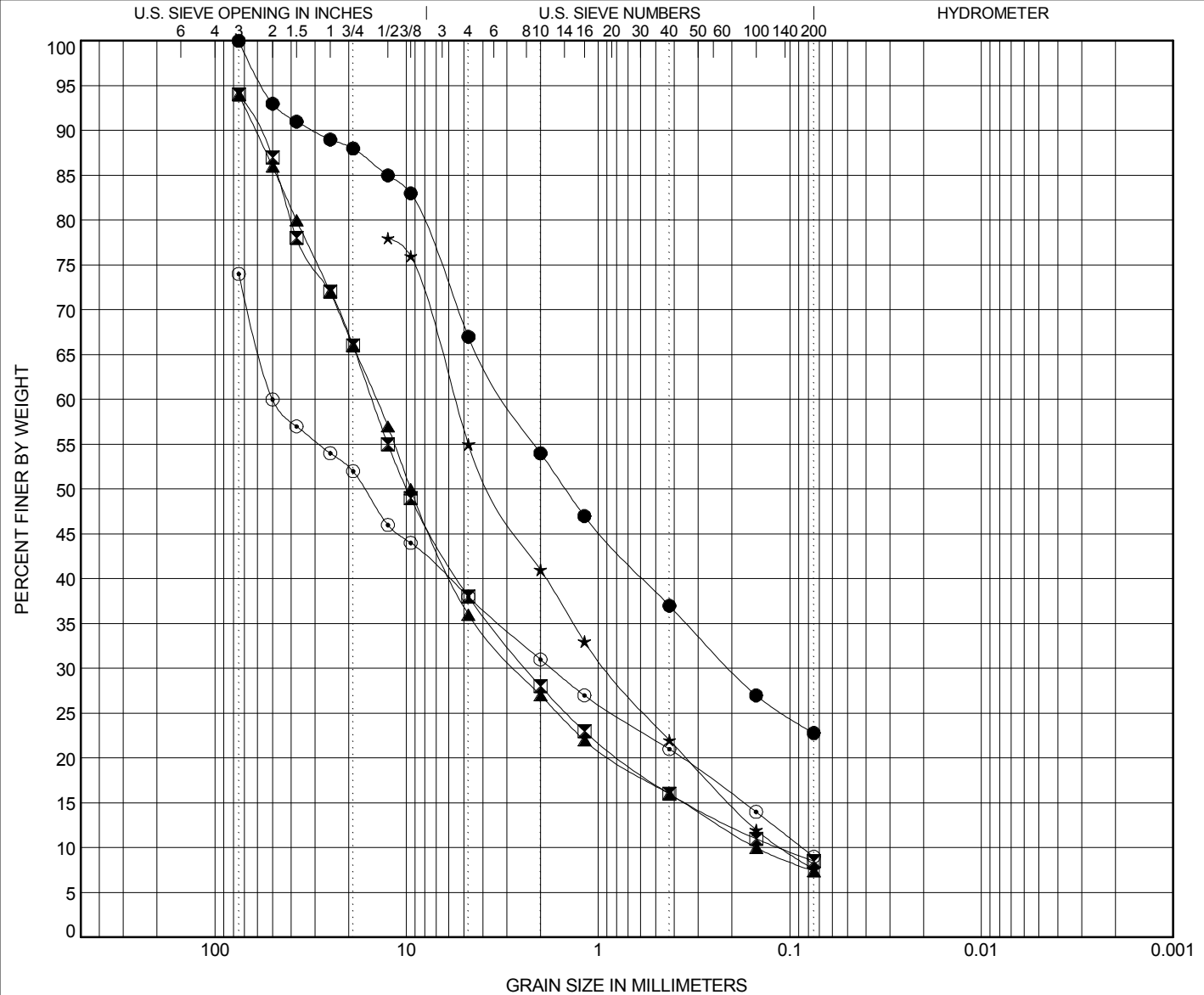
GRAIN SIZE DISTRIBUTION

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PROJECT NAME USA Parkway

PROJECT NUMBER 8480.001

PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu
● TP-475+00	1.0	SILTY SAND with GRAVEL(SM)					43	27	16		
▣ TP-490+00	0.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)					32	26	6	3.29	133.01
▲ TP-510+00	1.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)					35	26	9	3.30	95.81
★ TP-525+00	1.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)					49	46	3	1.30	51.18
⊙ TP-535+00	2.0	CLAYEY GRAVEL with SAND(GC)					31	22	9	0.71	580.37
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● TP-475+00	1.0	75	2.981	0.205		33.0	44.2	22.8			
▣ TP-490+00	0.0	75	15.121	2.378	0.114	56.0	29.5	8.5			
▲ TP-510+00	1.0	75	14.372	2.668	0.15	58.0	28.6	7.4			
★ TP-525+00	1.0	12.5	5.602	0.893	0.109	23.0	47.4	7.6			
⊙ TP-535+00	2.0	75	50	1.753	0.086	36.0	29.0	9.0			

GRAIN SIZE - GINT STD. US LAB. GDT - 3/4/13 13:12 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\USA PARKWAY\NEW PROJECT.GPJ



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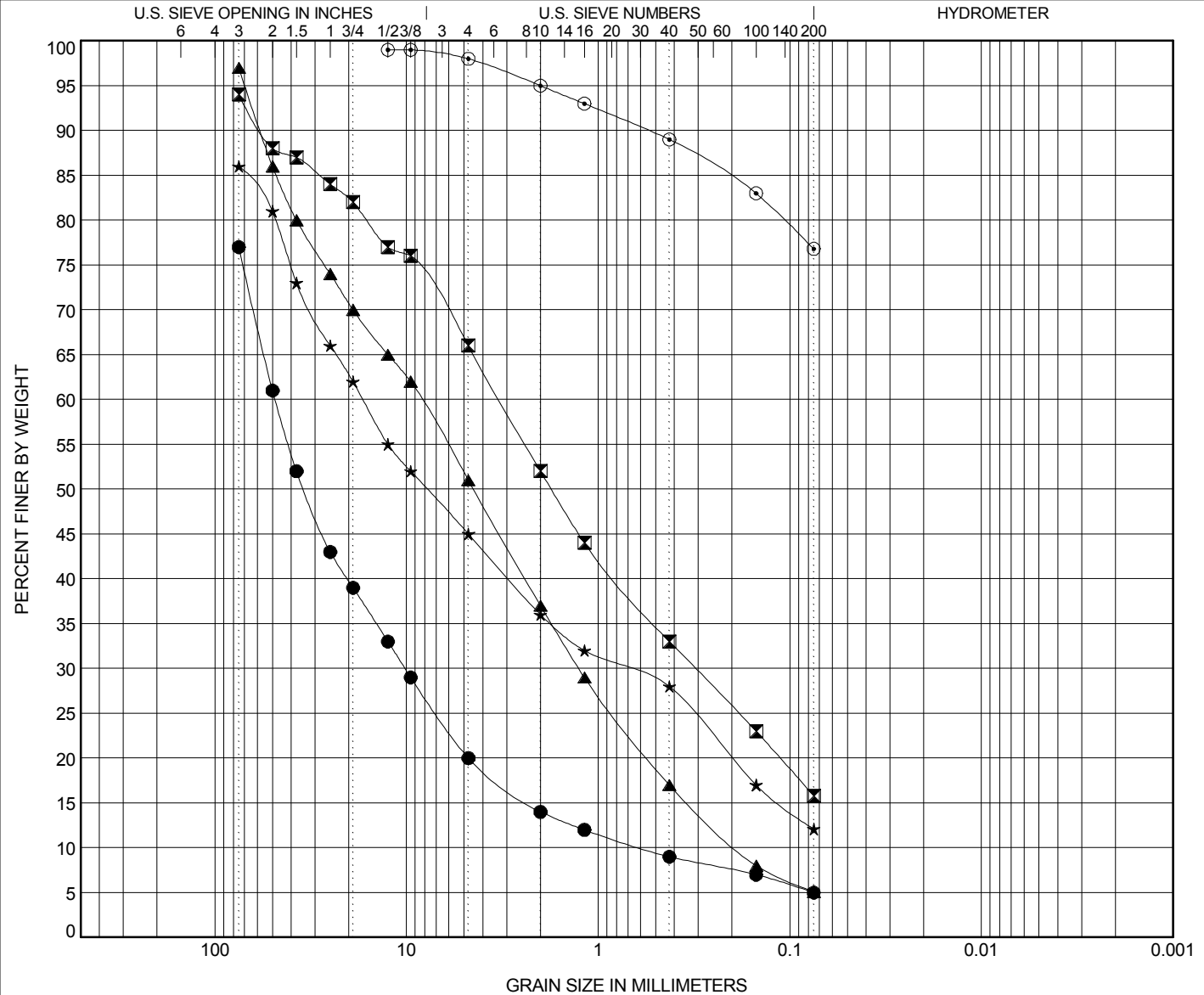
GRAIN SIZE DISTRIBUTION

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PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification	LL	PL	PI	Cc	Cu
● TP-545+00	0.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	23	24	NP	3.58	81.07
☒ TP-555+00	1.0	CLAYEY SAND with GRAVEL(SC)	27	19	8		
▲ TP-570+00	0.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	21	18	3	1.00	44.30
★ TP-590+00	0.0	CLAYEY GRAVEL with SAND(GC)	39	25	14	0.53	302.52
⊙ TP-605+00	0.0	LEAN CLAY with SAND(CL)	46	18	28		

TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● TP-545+00	0.0	75	48.427	10.175	0.597	57.0	15.0	5.0	
☒ TP-555+00	1.0	75	3.279	0.311		28.0	50.2	15.8	
▲ TP-570+00	0.0	75	8.375	1.26	0.189	46.0	45.9	5.1	
★ TP-590+00	0.0	75	16.858	0.708		41.0	32.9	12.1	
⊙ TP-605+00	0.0	12.5				1.0	21.2	76.8	

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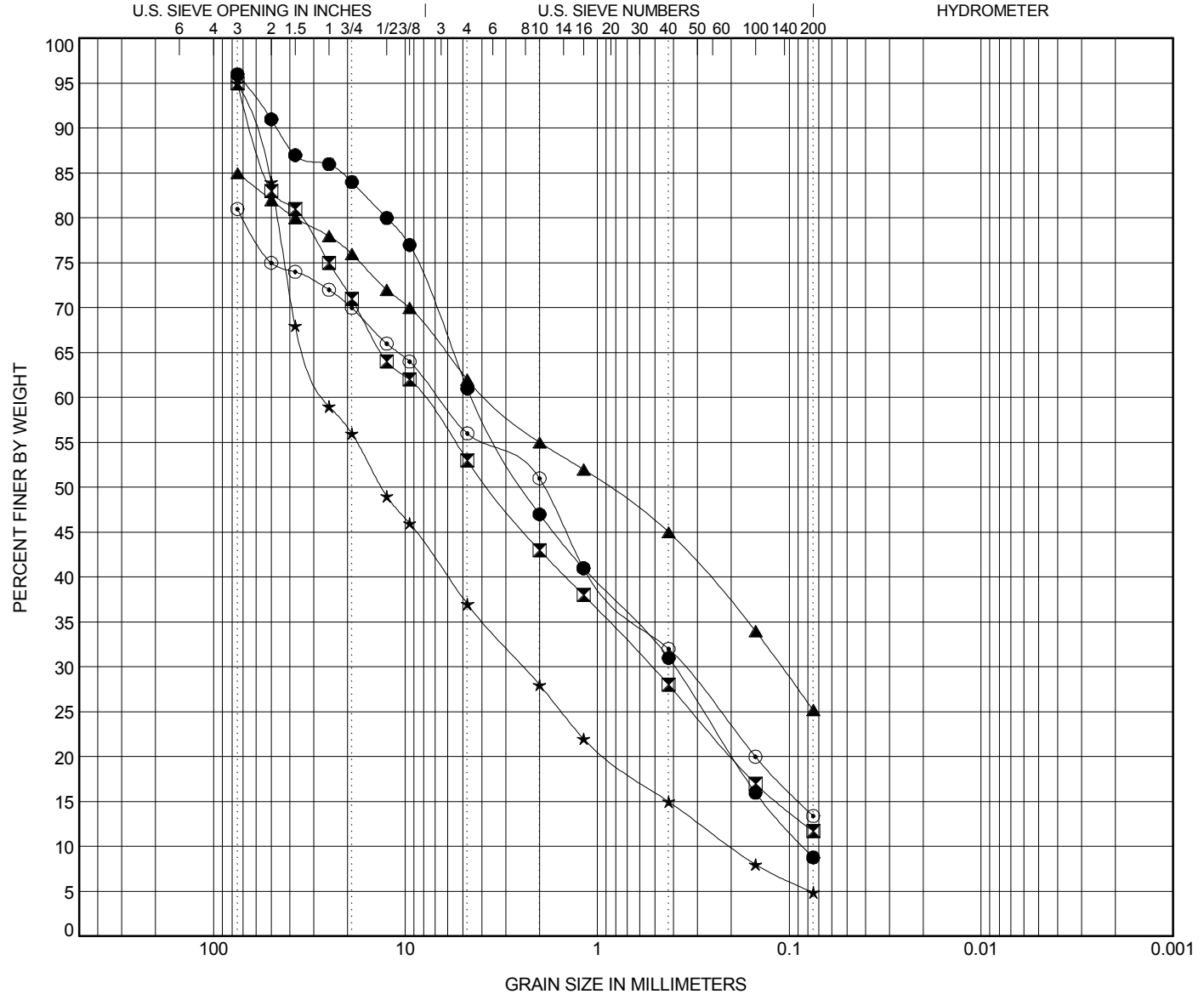
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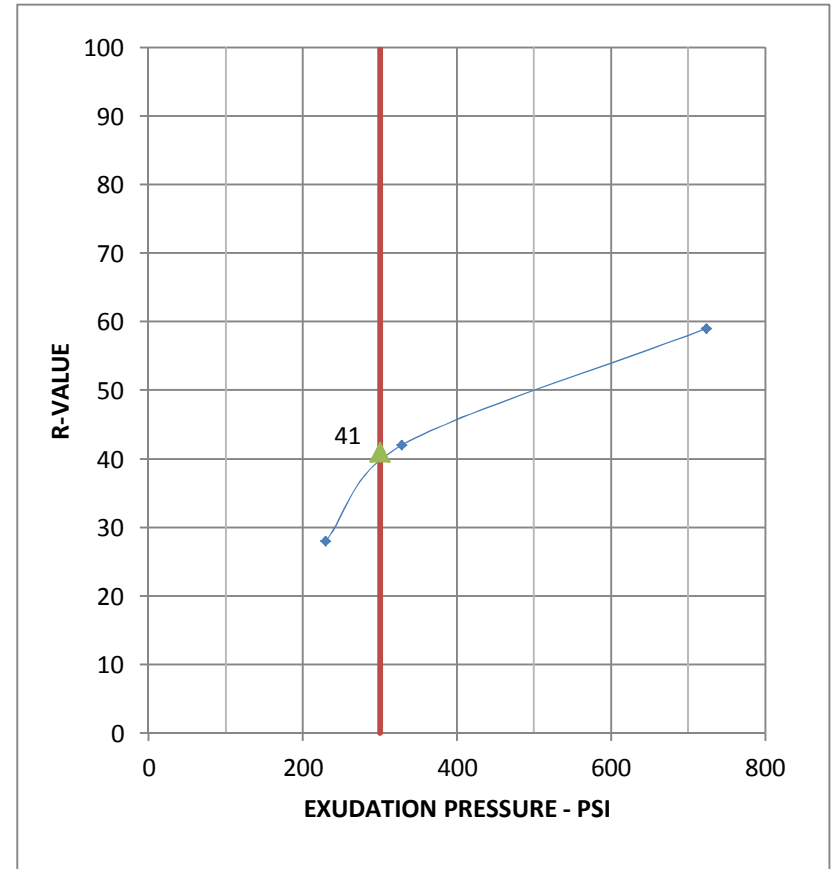
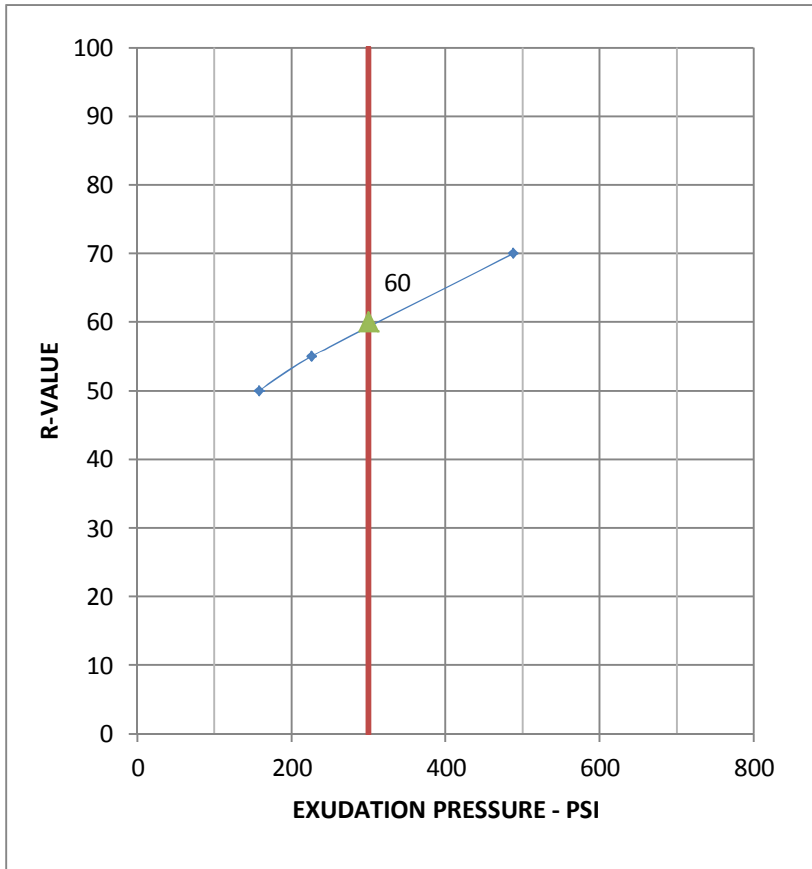
PROJECT LOCATION See Site Plan



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

TEST PIT	DEPTH	Classification					LL	PL	PI	Cc	Cu	
●	TP-620+00	0.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)					32	27	5	0.42	52.96
■	TP-640+00	0.0	CLAYEY GRAVEL with SAND(GC)					31	20	11	0.56	135.62
▲	TP-655+00	0.0	SILTY SAND with GRAVEL(SM)					45	27	18		
★	TP-670+00	0.0	WELL-GRADED GRAVEL with CLAY and SAND(GW-GC)					44	26	18	1.11	129.48
○	TP-680+00	2.0	SILTY SAND with GRAVEL(SM)					32	27	5		
TEST PIT	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay			
●	TP-620+00	0.0	75	4.465	0.396	0.084	35.0	52.2	8.8			
■	TP-640+00	0.0	75	8.144	0.521		42.0	41.3	11.7			
▲	TP-655+00	0.0	75	3.71	0.109		23.0	36.8	25.2			
★	TP-670+00	0.0	75	26.152	2.424	0.202	58.0	32.1	4.9			
○	TP-680+00	2.0	75	6.718	0.357		25.0	42.6	13.4			

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Test Summary Table - Sta 15+00 & 25+00

Unit Weight (pcf)	113.5	112.1	111.1
Moisture (%)	12.5	12.0	11.5
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	158	226	488
Expansion Pressure (psf)	5	13	13
R-Value _{300psi Exudation}	50	56	70

Test Summary Table - Sta 45+00

Unit Weight (pcf)	112.0	111.9	115.9
Moisture (%)	12.1	11.0	10.0
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	230	329	724
Expansion Pressure (psf)	4	7	11
R-Value _{300psi Exudation}	28	42	59



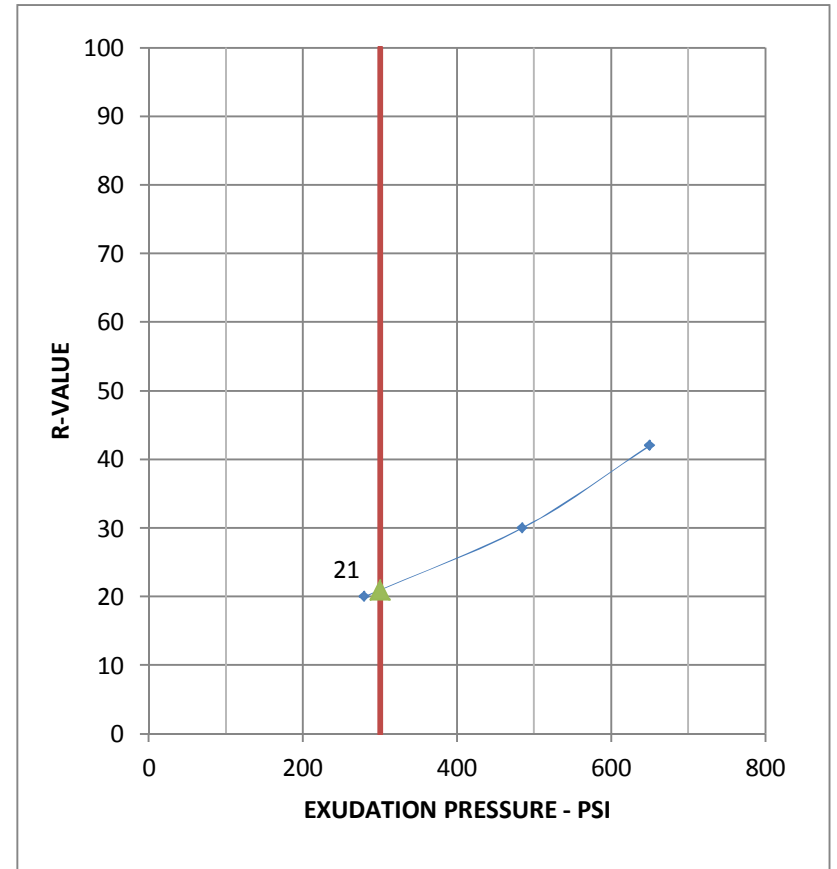
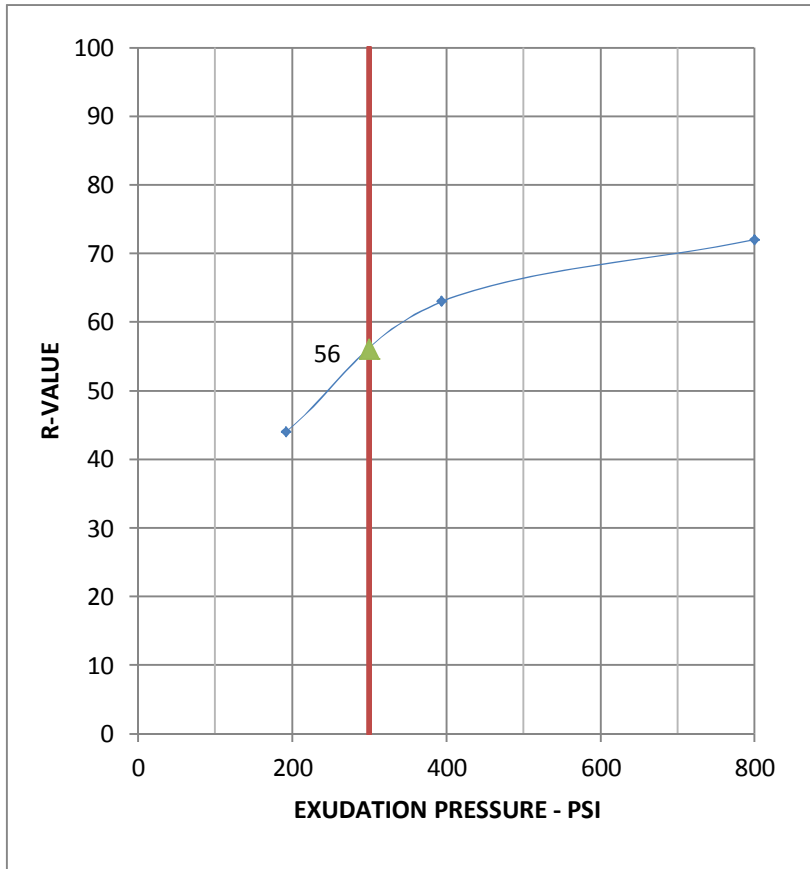
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
Date: 3.4.13

**PLATE
R1**



Test Summary Table - Sta 55+00			
Unit Weight (pcf)	108.4	109.6	108.0
Moisture (%)	14.2	13.4	12.2
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	192	394	800
Expansion Pressure (psf)	16	21	27
R-Value _{300psi Exudation}	44	63	72

Test Summary Table - Sta 65+00			
Unit Weight (pcf)	19.4	22.4	23.2
Moisture (%)	17.6	20.1	23.2
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	280	485	650
Expansion Pressure (psf)	16	26	65
R-Value _{300psi Exudation}	20	30	42



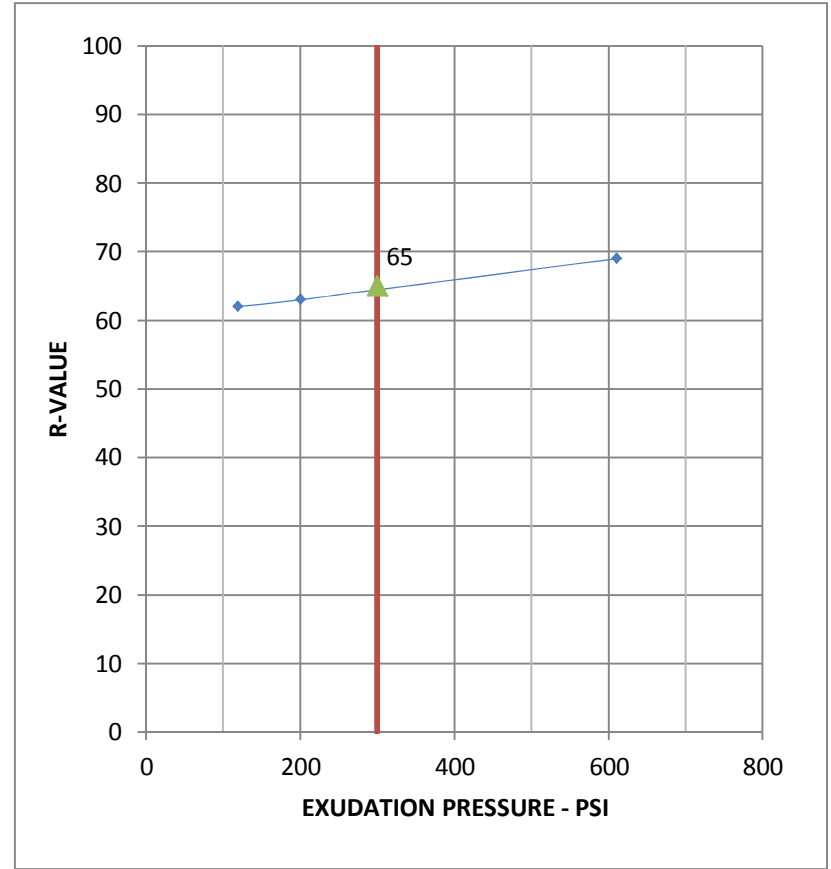
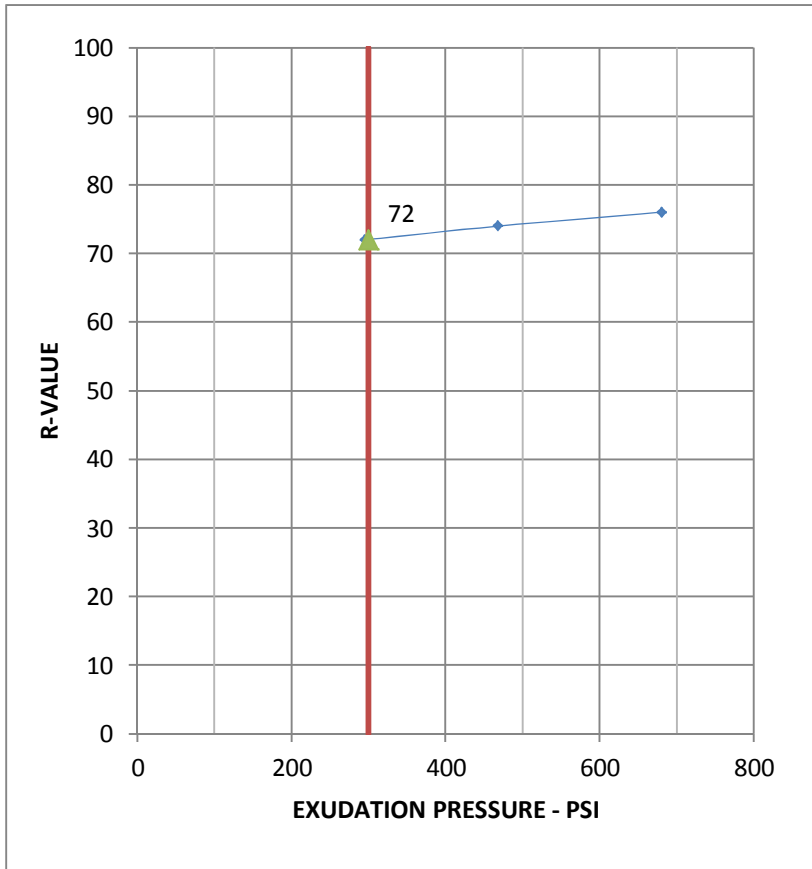
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
Date: 3.4.13

PLATE
R2



Test Summary Table - Sta 75+00			
Unit Weight (pcf)	116.2	112.2	117.2
Moisture (%)	12.7	11.7	14.0
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	295	468	680
Expansion Pressure (psf)	13	17	17
R-Value _{300psi Exudation}	72	74	76

Test Summary Table - Sta 85+00			
Unit Weight (pcf)	100.6	98.1	100.3
Moisture (%)	19.1	18.0	17.0
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	119	200	610
Expansion Pressure (psf)	13	16	30
R-Value _{300psi Exudation}	62	63	69



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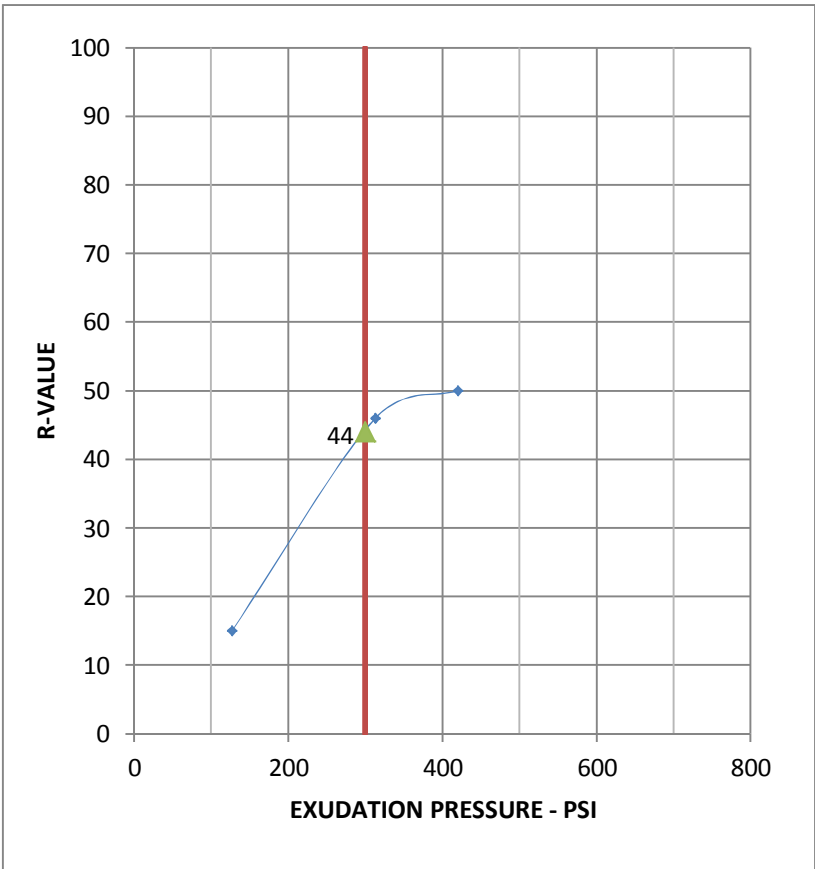
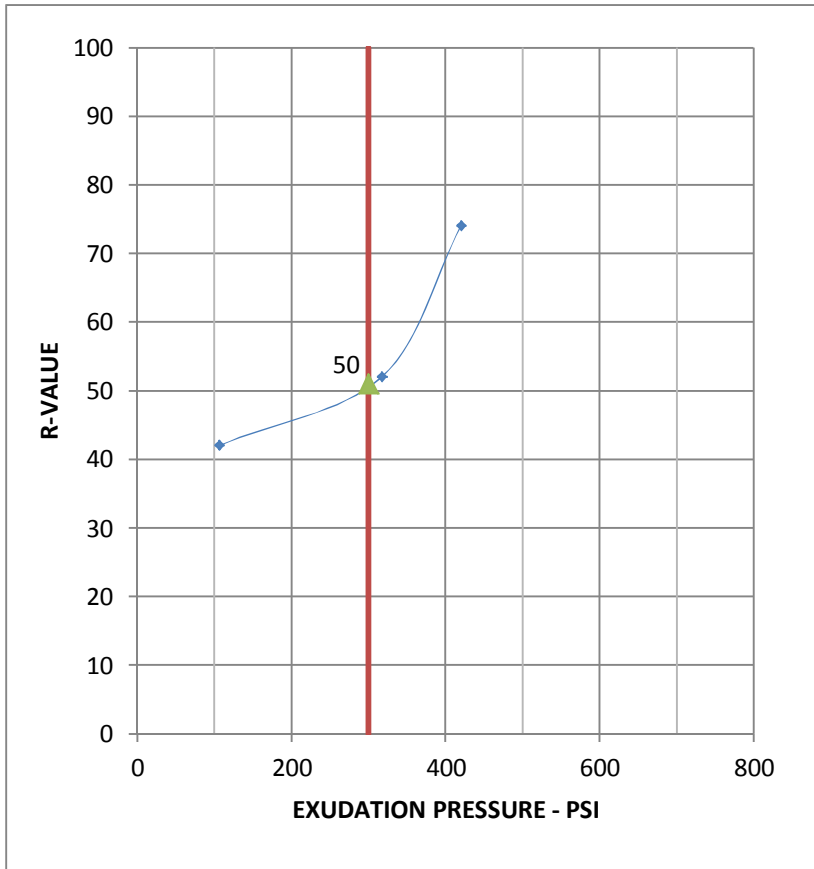
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

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PLATE R3



Test Summary Table - Sta 95+00, 1.5-2.5'			
Unit Weight (pcf)	113.6	110.6	110.4
Moisture (%)	15.0	14.5	13.3
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	106	317	420
Expansion Pressure (psf)	0	2	3
R-Value _{300psi Exudation}	42	52	74

Test Summary Table - Sta 105+00, 2-3'			
Unit Weight (pcf)	99.9	103.3	104.9
Moisture (%)	24.6	22.6	20.9
Foot Pressure (psi)	150	200	200
Exudation Pressure (psi)	127	313	420
Expansion Pressure (psf)	5	5	8
R-Value _{300psi Exudation}	15	46	34



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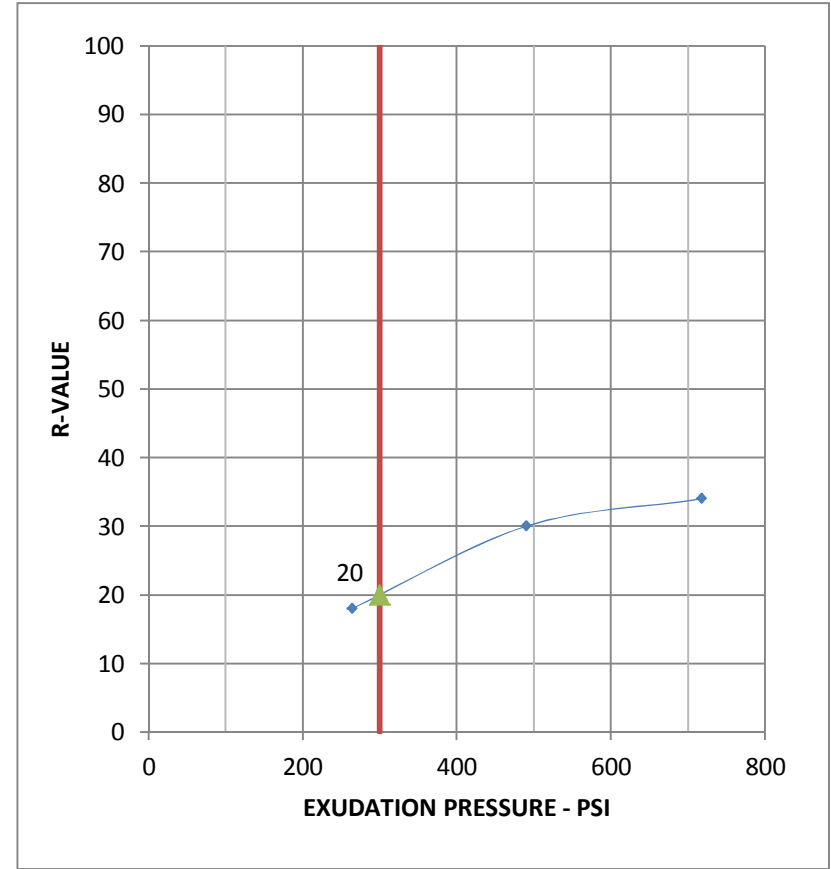
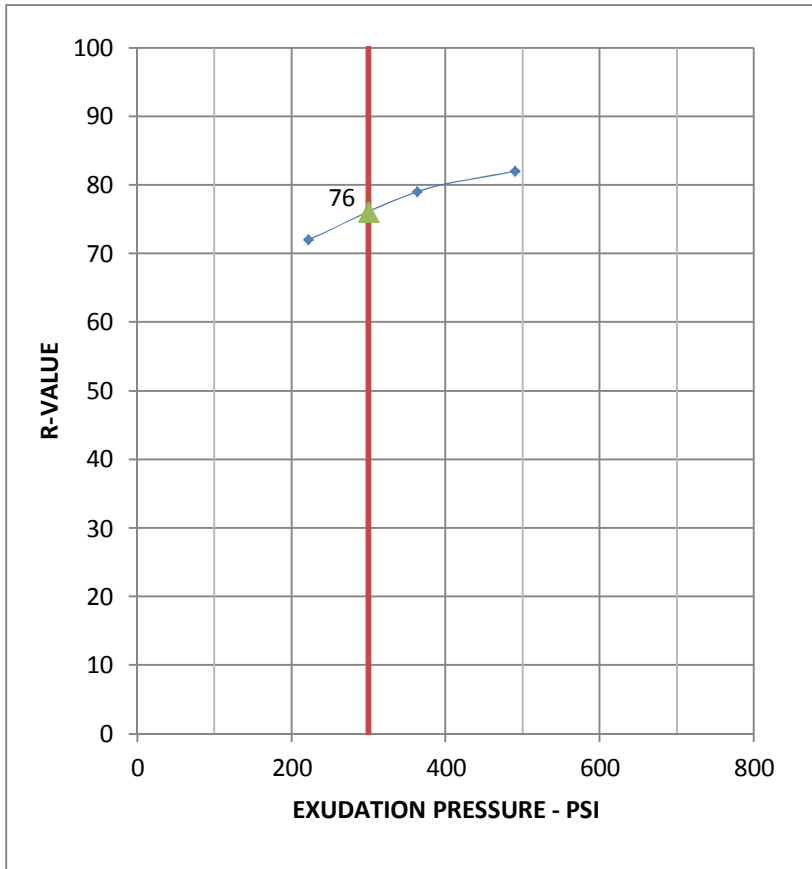
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

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PLATE R4



Test Summary Table - Sta 115+00, 5-6'			
Unit Weight (pcf)	75.2	77.5	73.1
Moisture (%)	46.3	45.3	43.5
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	222	363	490
Expansion Pressure (psf)	0	0	0
R-Value _{300psi Exudation}	72	79	82

Test Summary Table - Sta 145+00, 1-2'			
Unit Weight (pcf)	92.9	98.4	104.0
Moisture (%)	26.8	23.6	21.2
Foot Pressure (psi)	100	150	200
Exudation Pressure (psi)	264	490	718
Expansion Pressure (psf)	6	11	31
R-Value _{300psi Exudation}	18	30	34



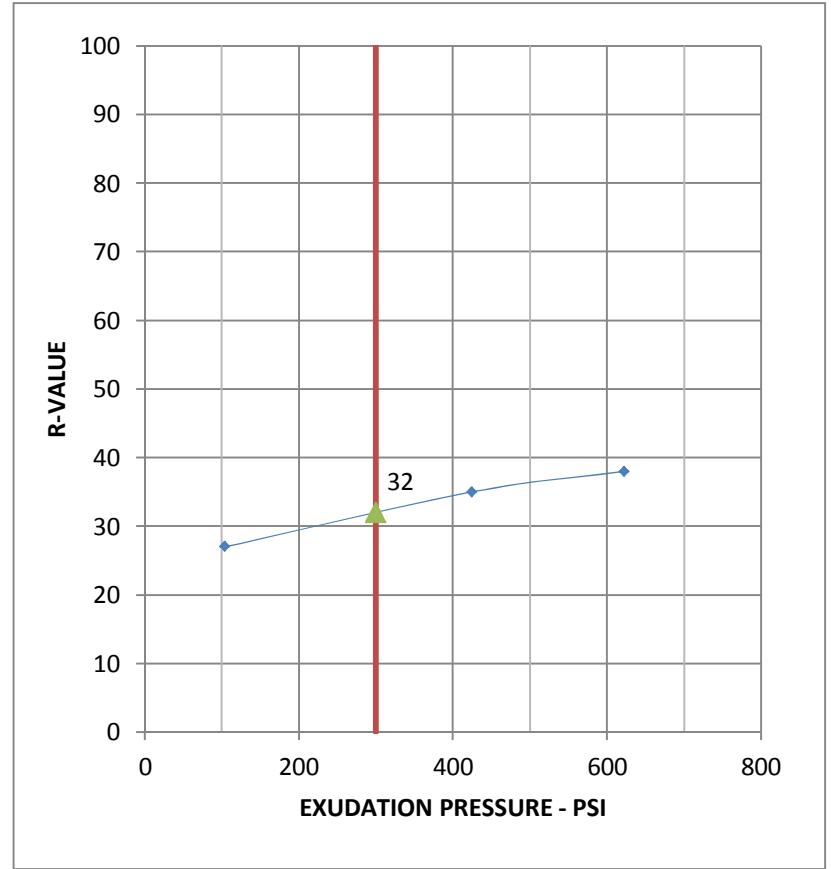
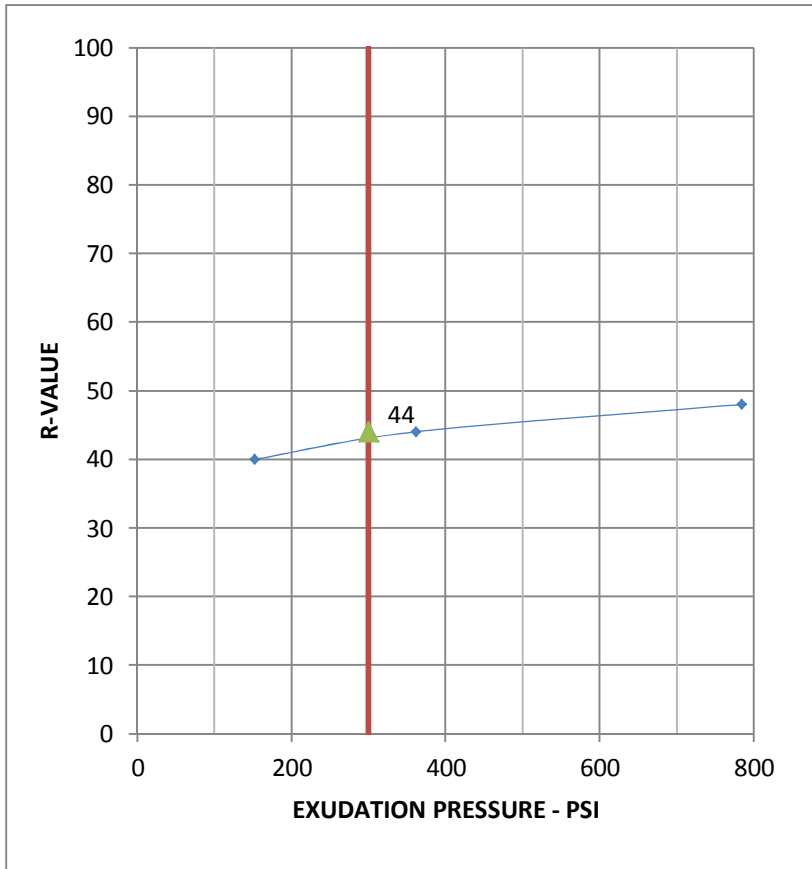
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
Date: 3.4.13

**PLATE
R5**



Test Summary Table - Sta 230+00 10-11'

Unit Weight (pcf)	114.0	113.3	110.0
Moisture (%)	15.0	13.0	11.9
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	152	361	784
Expansion Pressure (psf)	7	9	10
R-Value _{300psi Exudation}	40	44	48

Test Summary Table - Sta 230A+00 9-10'

Unit Weight (pcf)	105.1	95.7	98.2
Moisture (%)	22.0	21.0	19.9
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	104	425	622
Expansion Pressure (psf)	6	12	19
R-Value _{300psi Exudation}	27	35	38



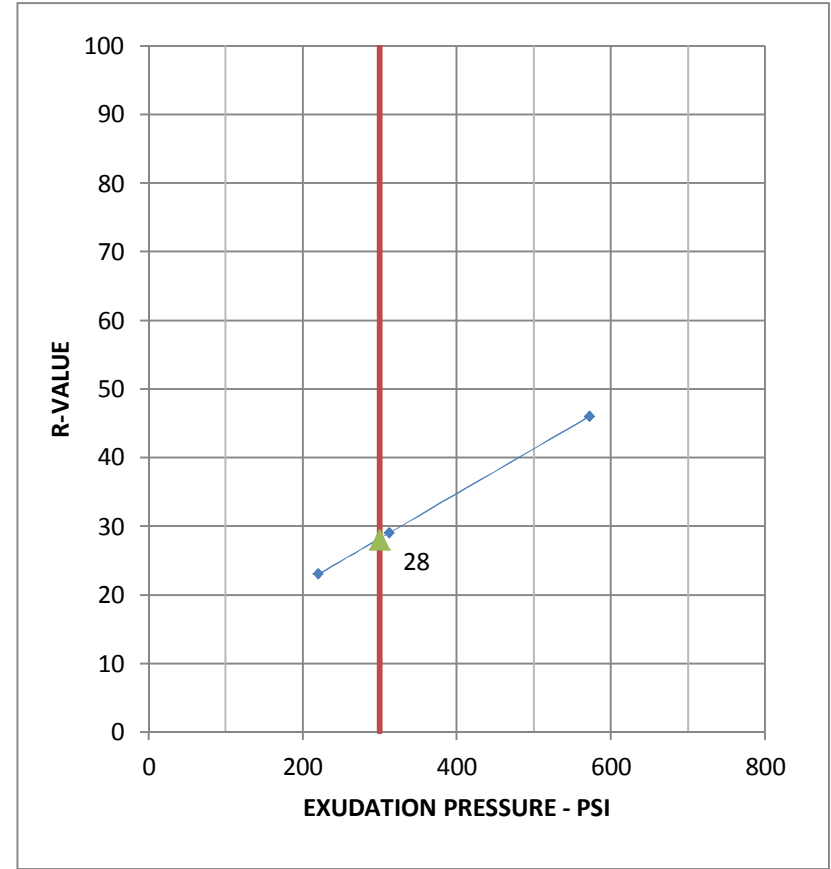
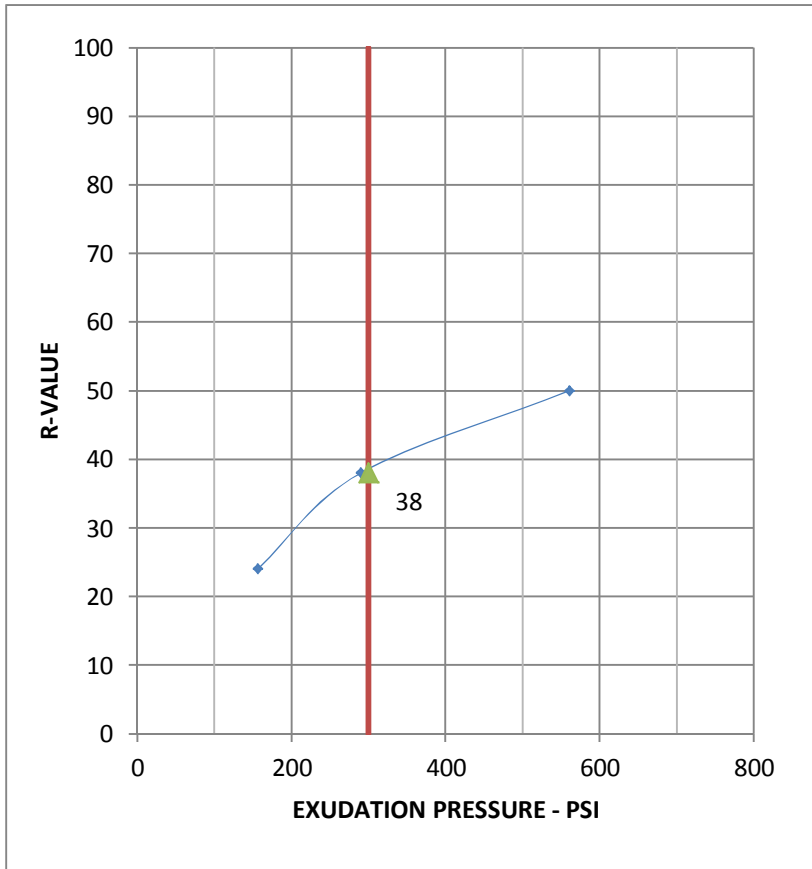
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
Date: 3.4.13

PLATE
R6



Test Summary Table - Sta 235+00 3-4'			
Unit Weight (pcf)	100.8	102.4	101.7
Moisture (%)	23.4	22.3	21.1
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	156	290	561
Expansion Pressure (psf)	5	7	8
R-Value _{300psi Exudation}	24	38	50

Test Summary Table - Sta 235A+00 15-16'			
Unit Weight (pcf)	104.8	108.3	113.8
Moisture (%)	20.3	18.2	16.0
Foot Pressure (psi)	125	200	200
Exudation Pressure (psi)	220	312	572
Expansion Pressure (psf)	15	22	28
R-Value _{300psi Exudation}	23	29	46



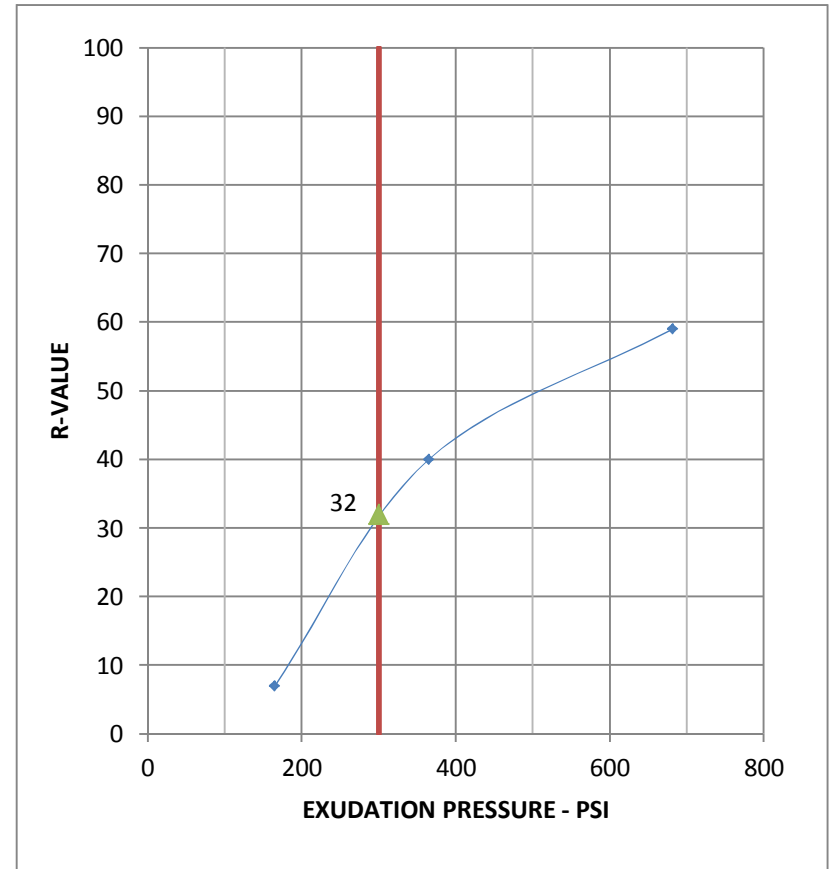
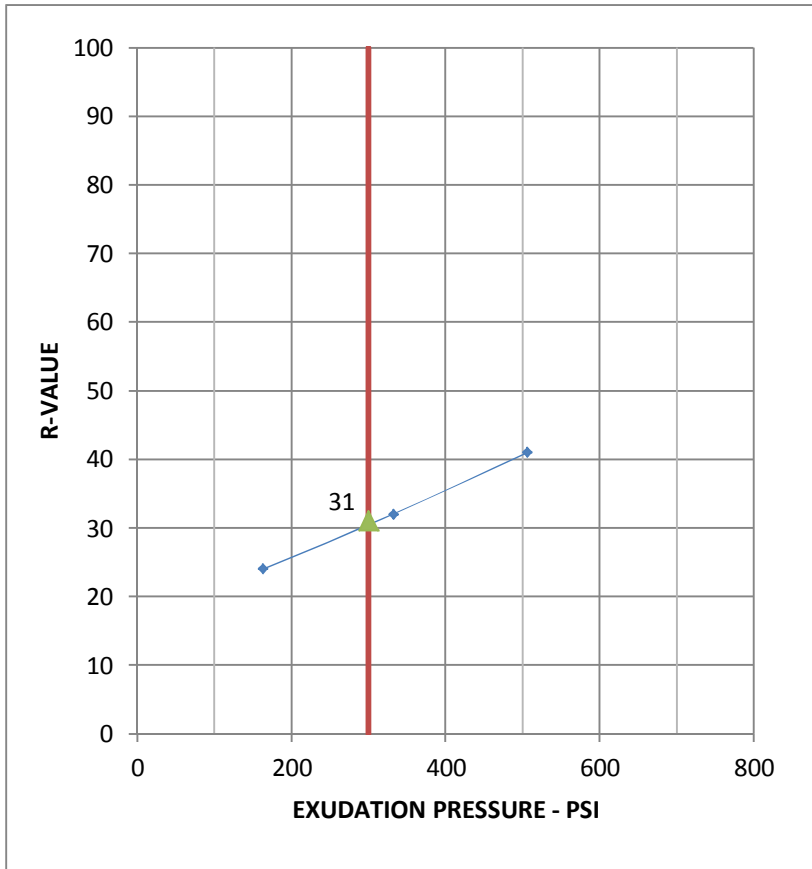
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

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**PLATE
R7**



Test Summary Table - Sta 310+00 4-5'			
Unit Weight (pcf)	86.7	84.7	96.8
Moisture (%)	26.7	28.5	26.1
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	163	332	506
Expansion Pressure (psf)	14	19	19
R-Value _{300psi Exudation}	24	32	41

Test Summary Table - Sta 315+00 6-7'			
Unit Weight (pcf)	113.5	116.1	119.7
Moisture (%)	15.4	13.1	12.0
Foot Pressure (psi)	100	200	200
Exudation Pressure (psi)	165	365	682
Expansion Pressure (psf)	4	5	9
R-Value _{300psi Exudation}	7	40	59

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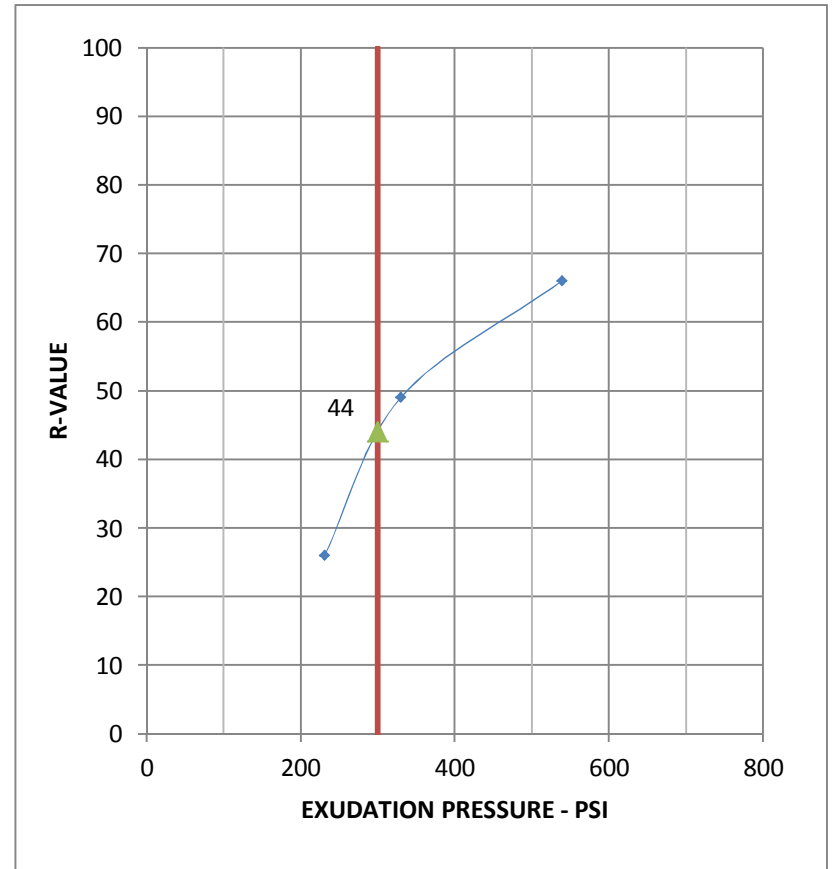
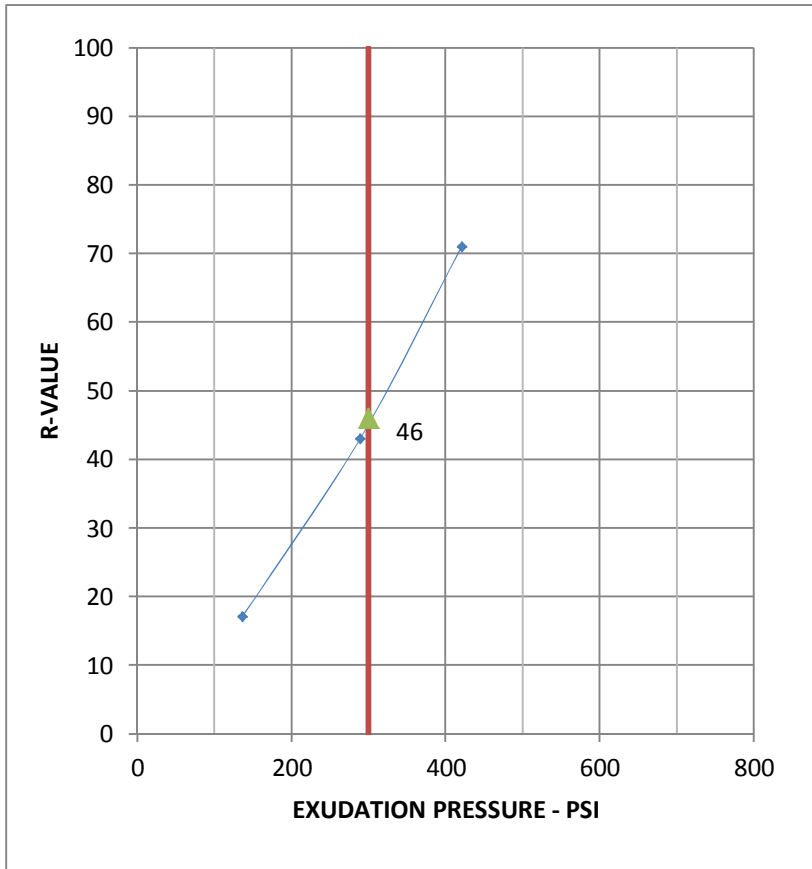
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

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PLATE R8



Test Summary Table - Sta 330+00 18-19'			
Unit Weight (pcf)	112.0	117.5	119.3
Moisture (%)	16.9	14.7	13.6
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	136	289	421
Expansion Pressure (psf)	4	5	5
R-Value _{300psi Exudation}	17	43	71

Test Summary Table - Sta 330A+00 10-11'			
Unit Weight (pcf)	106.4	107.7	110.6
Moisture (%)	19.1	18.0	16.9
Foot Pressure (psi)	150	200	200
Exudation Pressure (psi)	231	330	539
Expansion Pressure (psf)	9	14	32
R-Value _{300psi Exudation}	26	49	66



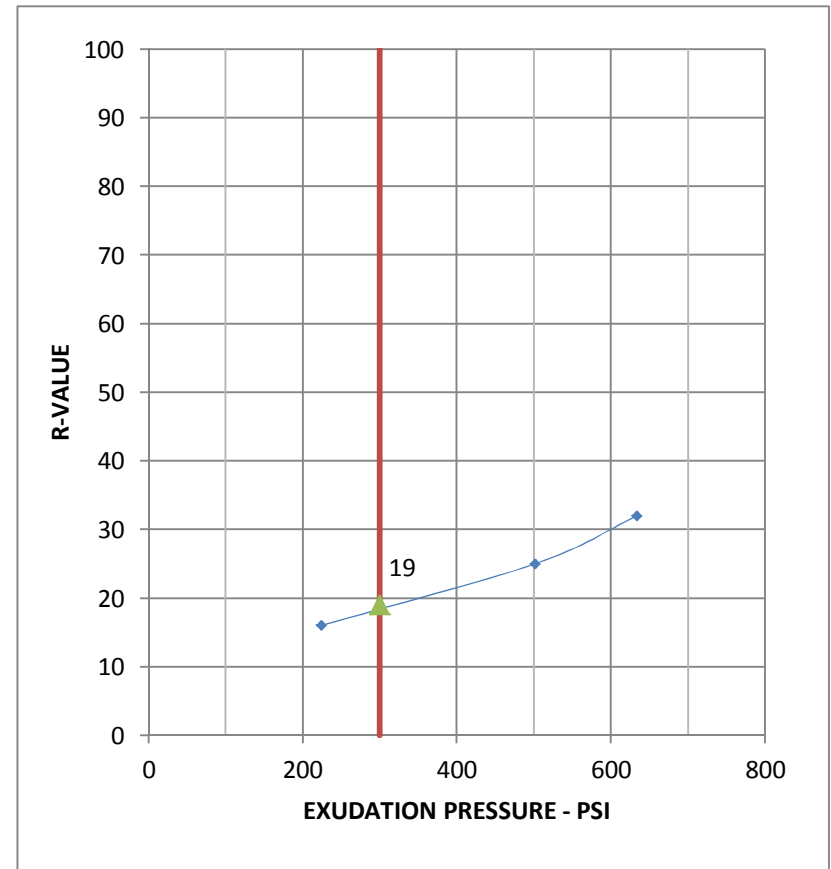
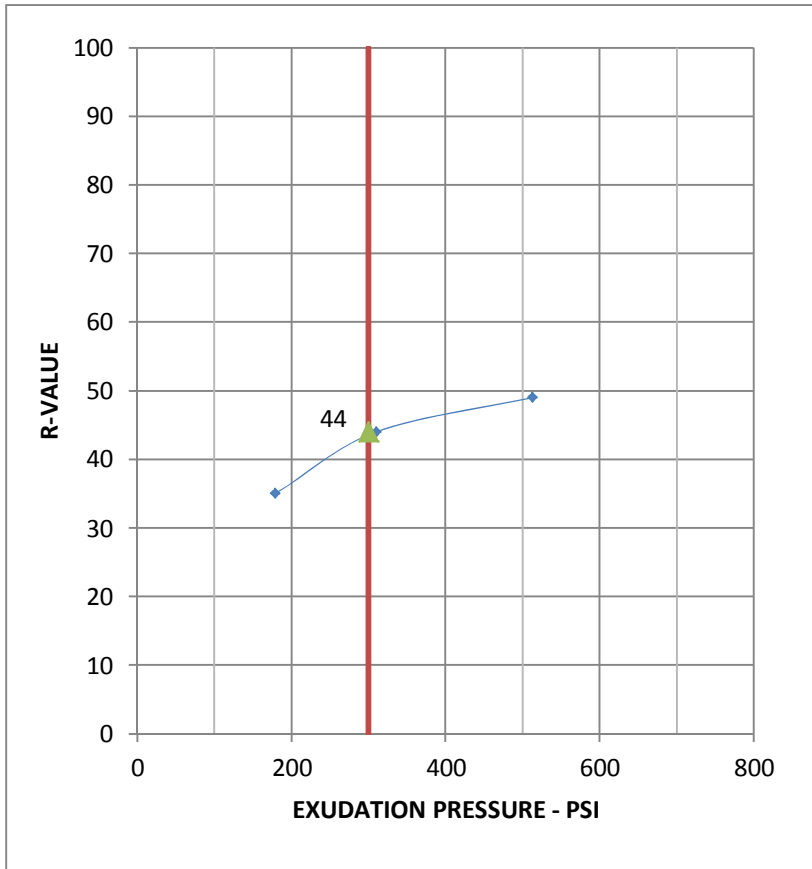
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

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PLATE
R9



Test Summary Table - Sta 330B+00 8-9'			
Unit Weight (pcf)	108.0	111.6	112.1
Moisture (%)	17.3	16.3	15.2
Foot Pressure (psi)	100	150	200
Exudation Pressure (psi)	179	310	513
Expansion Pressure (psf)	0	4	14
R-Value _{300psi Exudation}	35	44	49

Test Summary Table - Sta 330C+00 3-4'			
Unit Weight (pcf)	102.0	104.8	121.9
Moisture (%)	25.2	20.7	18.4
Foot Pressure (psi)	90	200	200
Exudation Pressure (psi)	224	502	634
Expansion Pressure (psf)	0	0	47
R-Value _{300psi Exudation}	16	25	32

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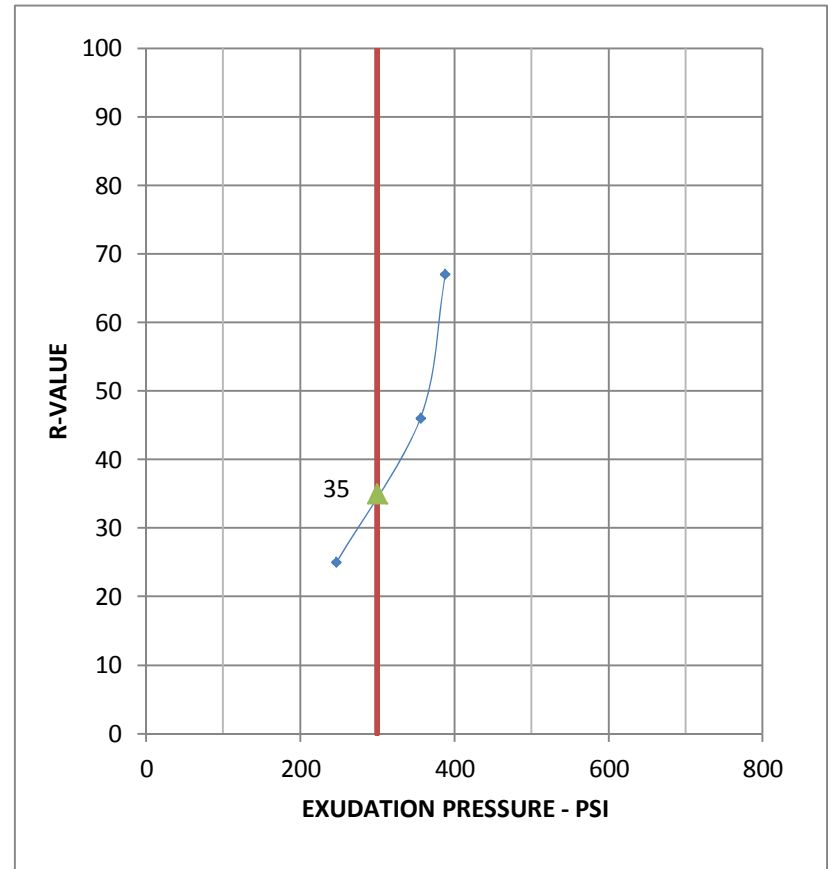
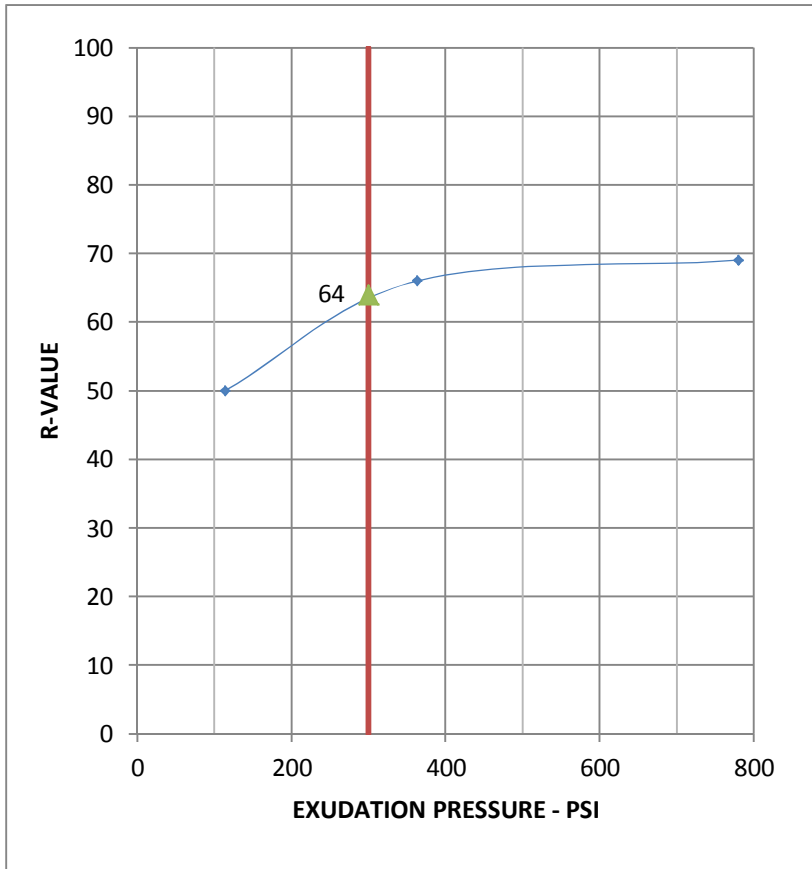
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

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PLATE R10



Test Summary Table - Sta 335+00 4-5'			
Unit Weight (pcf)	112.3	124.5	114.0
Moisture (%)	13.4	12.3	11.2
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	114	363	780
Expansion Pressure (psf)	5	8	13
R-Value _{300psi Exudation}	50	67	69

Test Summary Table - Sta 345A+00 2-3'			
Unit Weight (pcf)	113.6	116.4	117.1
Moisture (%)	14.6	13.6	12.6
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	247	356	388
Expansion Pressure (psf)	1	13	16
R-Value _{300psi Exudation}	29	46	67



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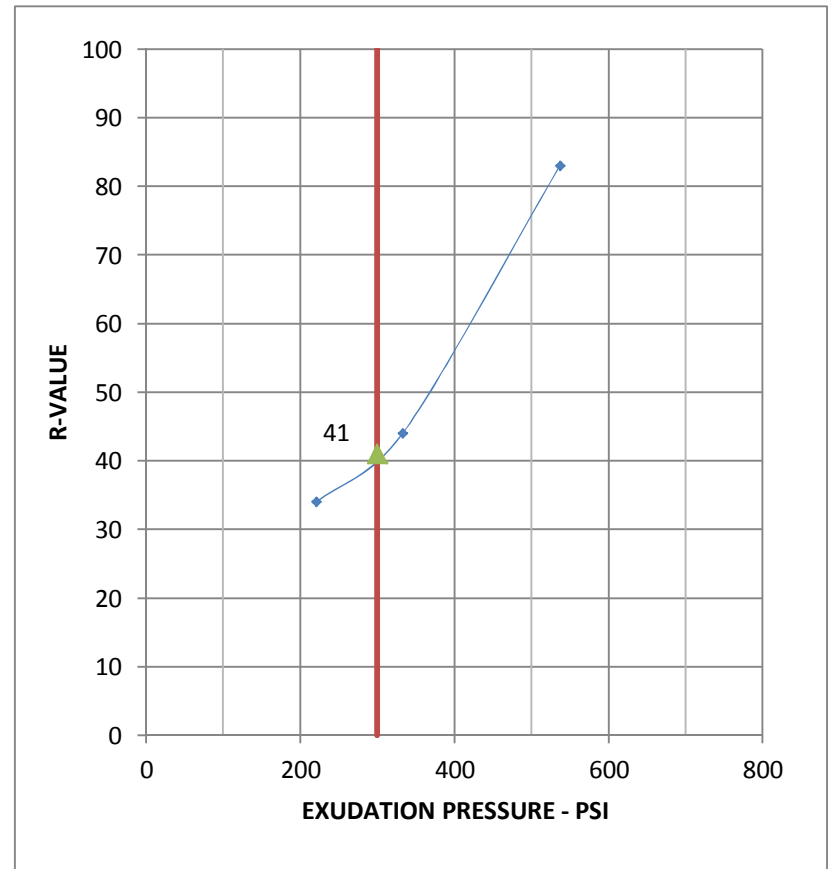
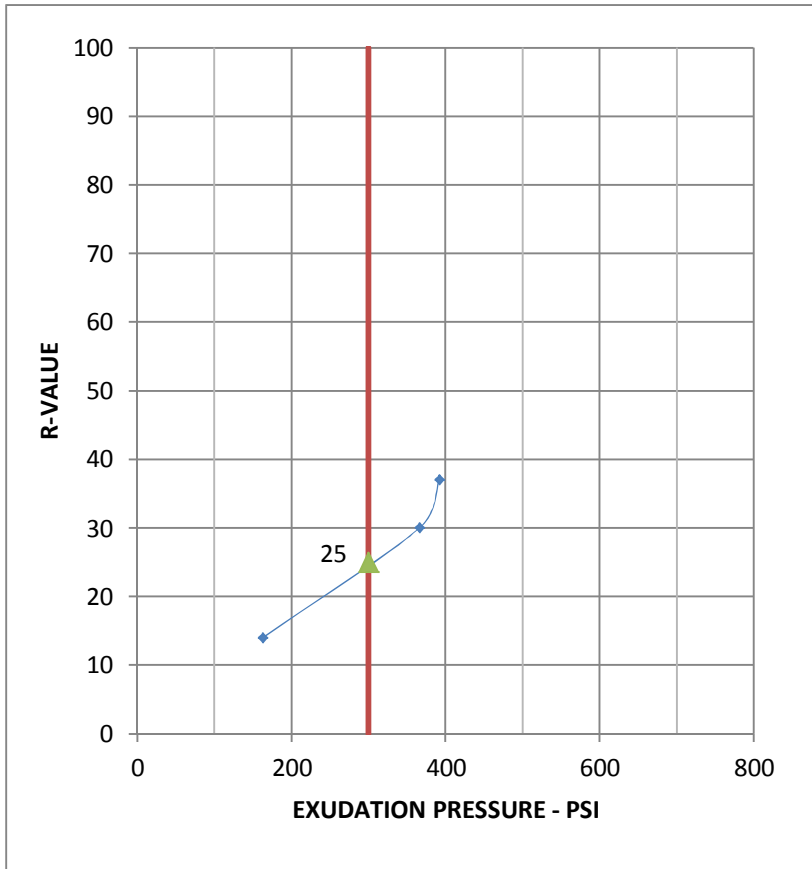
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

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PLATE R11



Test Summary Table - Sta 345B+00 5-6'			
Unit Weight (pcf)	106.9	112.3	113.1
Moisture (%)	18.5	16.4	15.2
Foot Pressure (psi)	70	140	200
Exudation Pressure (psi)	163	366	392
Expansion Pressure (psf)	0	6	11
R-Value _{300psi Exudation}	14	30	37

Test Summary Table - Sta 355+00 2-3'			
Unit Weight (pcf)	117.3	124.2	119.0
Moisture (%)	14.6	13.6	12.5
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	221	333	537
Expansion Pressure (psf)	3	6	9
R-Value _{300psi Exudation}	34	44	83



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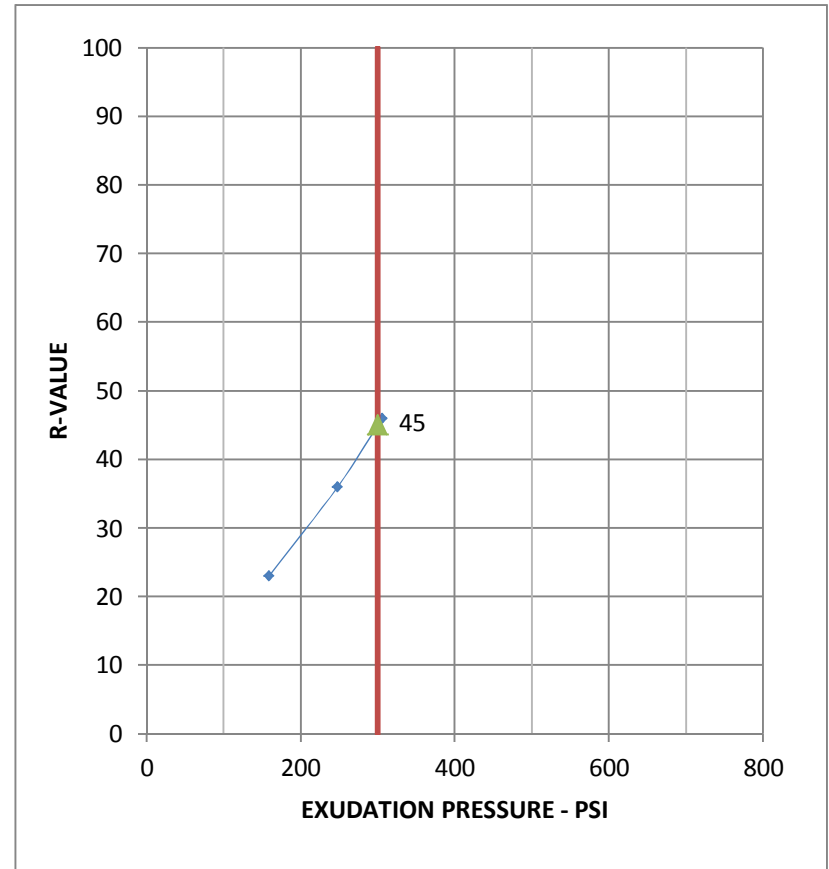
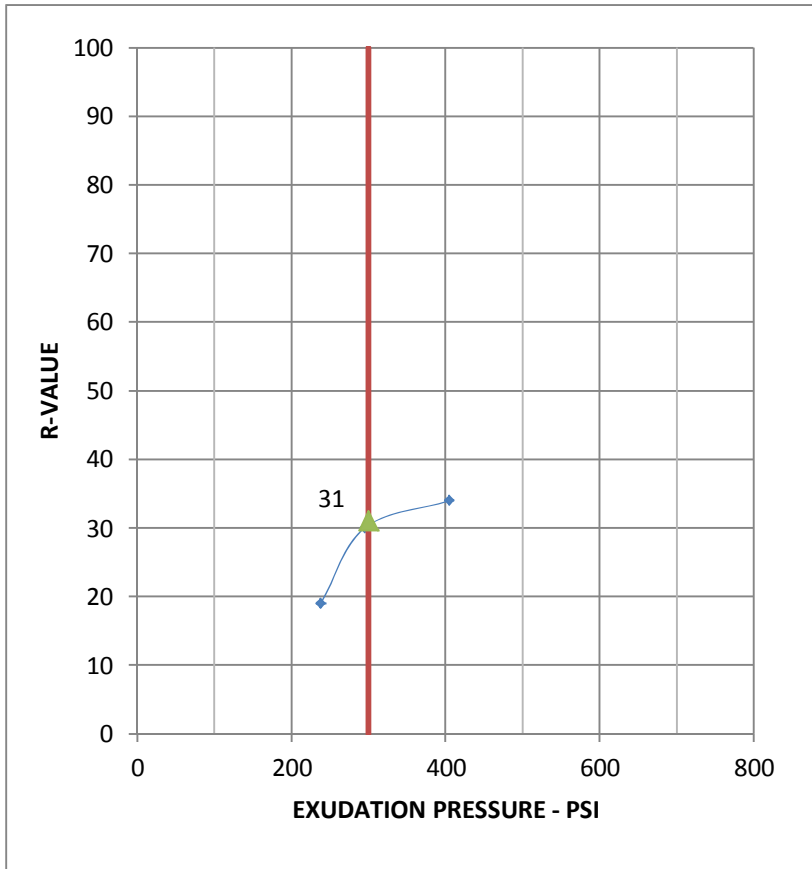
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

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PLATE R12



Test Summary Table - Sta 405+00 13-14'			
Unit Weight (pcf)	111.0	115.6	114.9
Moisture (%)	17.3	16.2	15.2
Foot Pressure (psi)	150	200	200
Exudation Pressure (psi)	238	295	405
Expansion Pressure (psf)	12	20	22
R-Value _{300psi Exudation}	19	30	34

Test Summary Table - Sta 225+00 4-5'			
Unit Weight (pcf)	108.3	109.2	111.7
Moisture (%)	16.8	15.7	14.8
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	159	248	306
Expansion Pressure (psf)	10	12	17
R-Value _{300psi Exudation}	23	36	46



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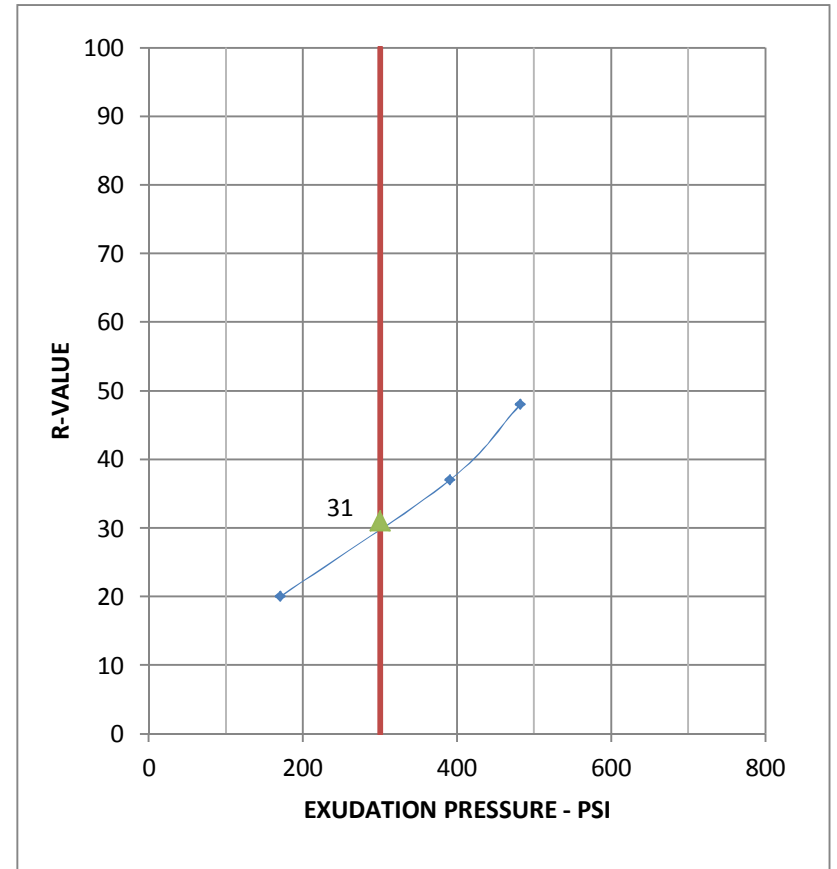
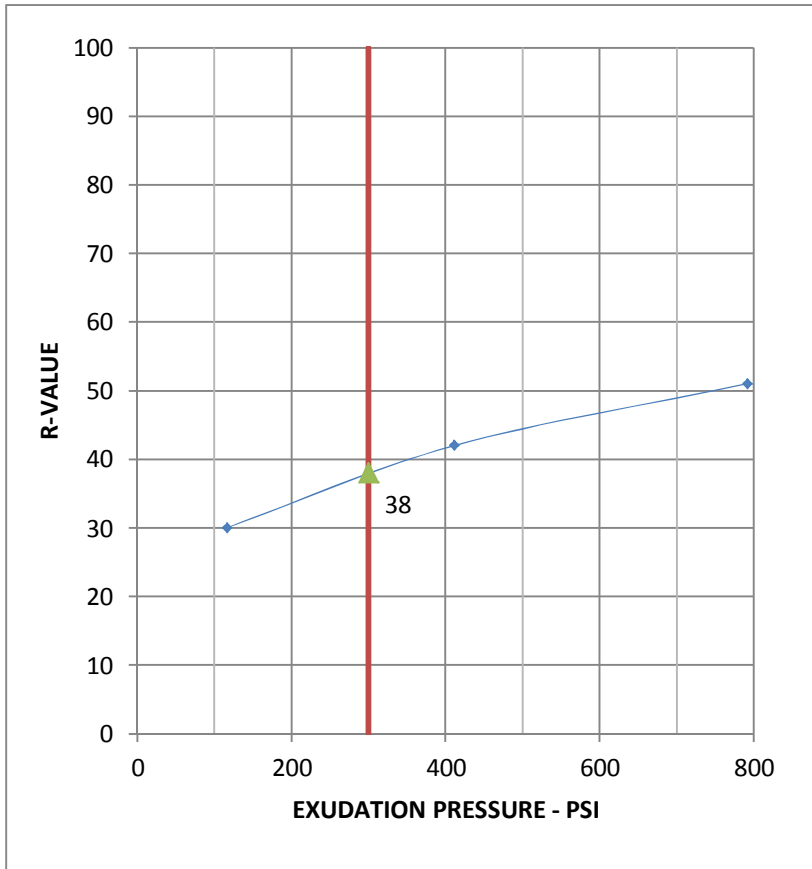
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
 Date: 3.4.13

PLATE R13



Test Summary Table - Sta 415+00 12-15'

Unit Weight (pcf)	111.6	112.6	120.1
Moisture (%)	15.8	13.7	11.5
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	116	411	792
Expansion Pressure (psf)	4	6	10
R-Value _{300psi Exudation}	30	42	51

Test Summary Table - Sta 425+00 1-2'

Unit Weight (pcf)	103.6	112.5	107.5
Moisture (%)	20.2	19.1	18.0
Foot Pressure (psi)	100	200	200
Exudation Pressure (psi)	171	391	482
Expansion Pressure (psf)	5	8	13
R-Value _{300psi Exudation}	20	37	48



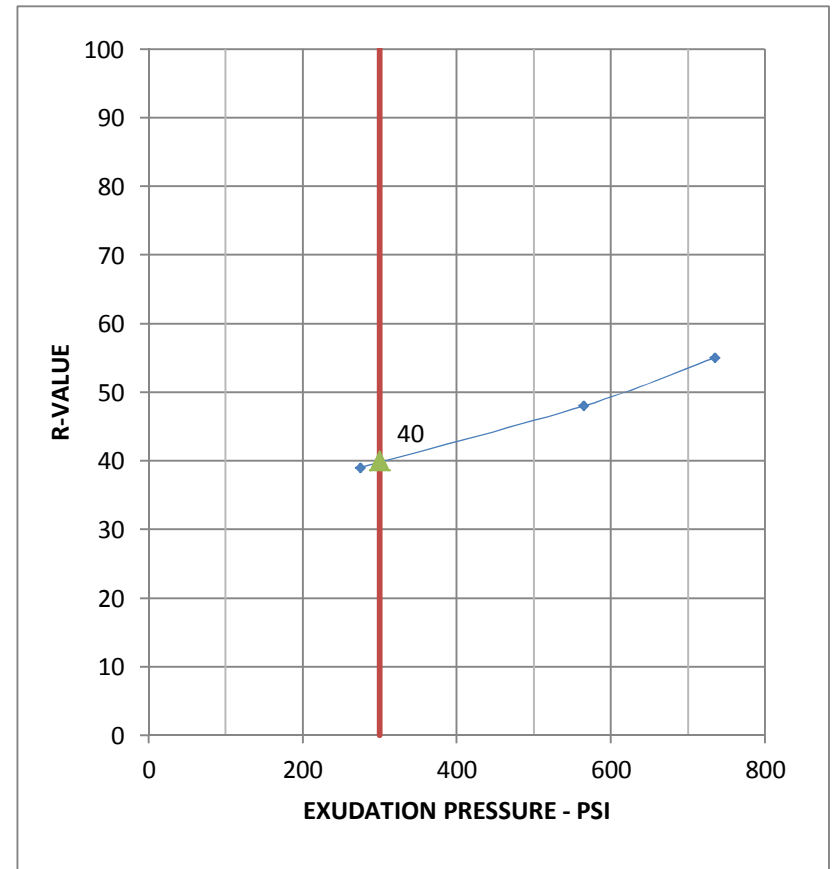
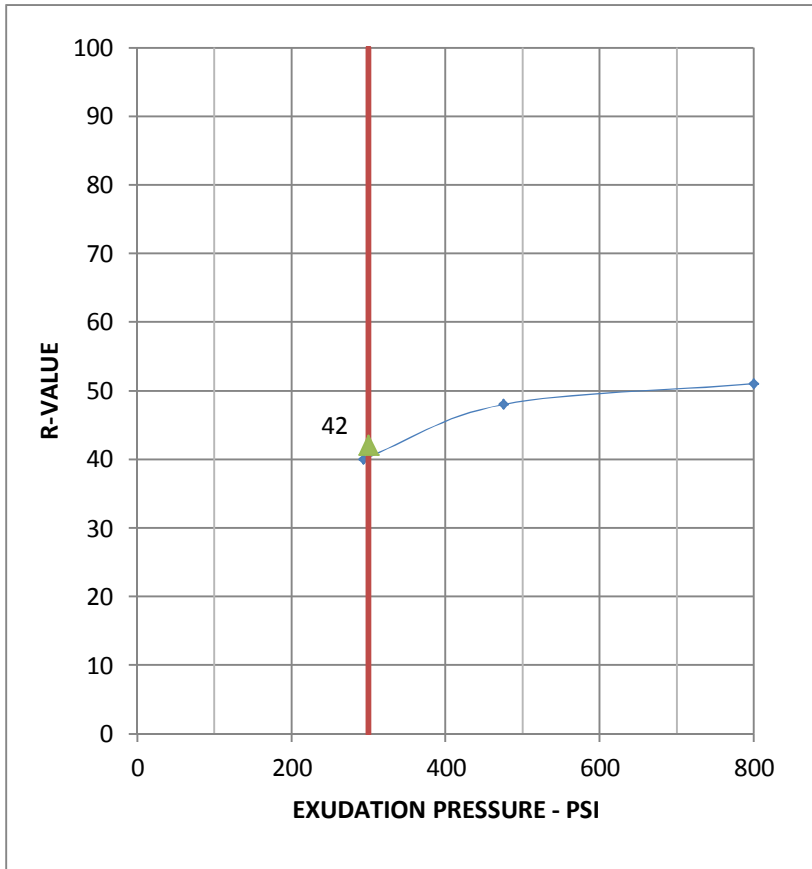
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
Date: 3.4.13

**PLATE
R14**



Test Summary Table - Sta 450+00			
Unit Weight (pcf)	114.7	61.9	115.7
Moisture (%)	13.3	100.0	12.3
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	293	475	800
Expansion Pressure (psf)	4	12	32
R-Value _{300psi Exudation}	40	48	51

Test Summary Table - Sta 450A+00			
Unit Weight (pcf)	104.8	112.0	111.7
Moisture (%)	12.7	10.7	11.7
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	275	695	735
Expansion Pressure (psf)	3	9	12
R-Value _{300psi Exudation}	39	48	55

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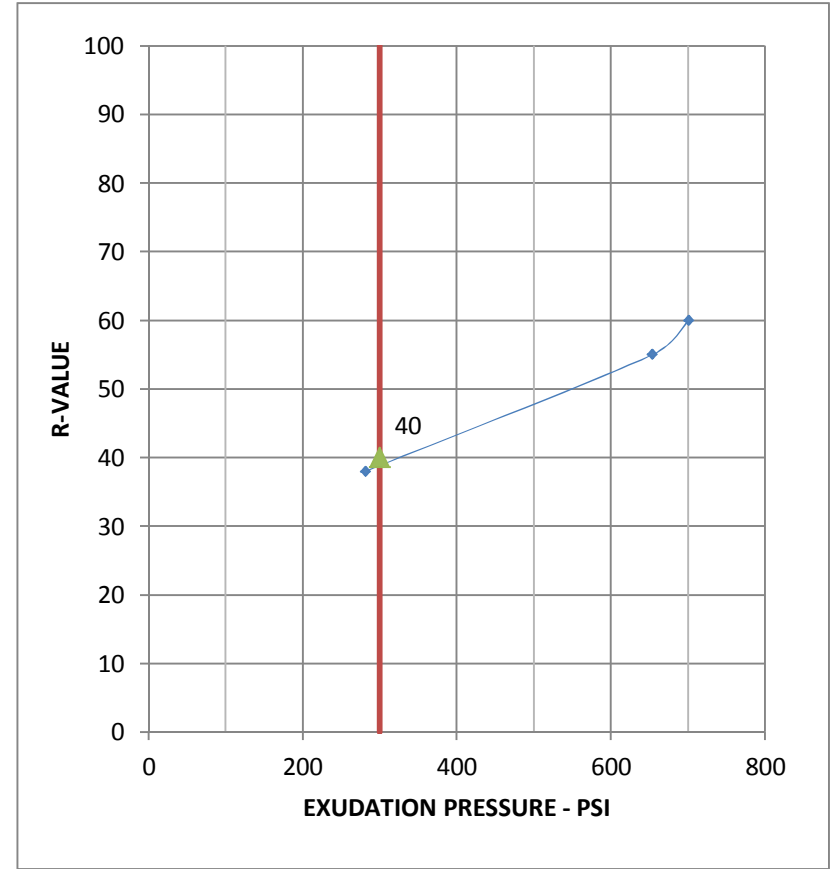
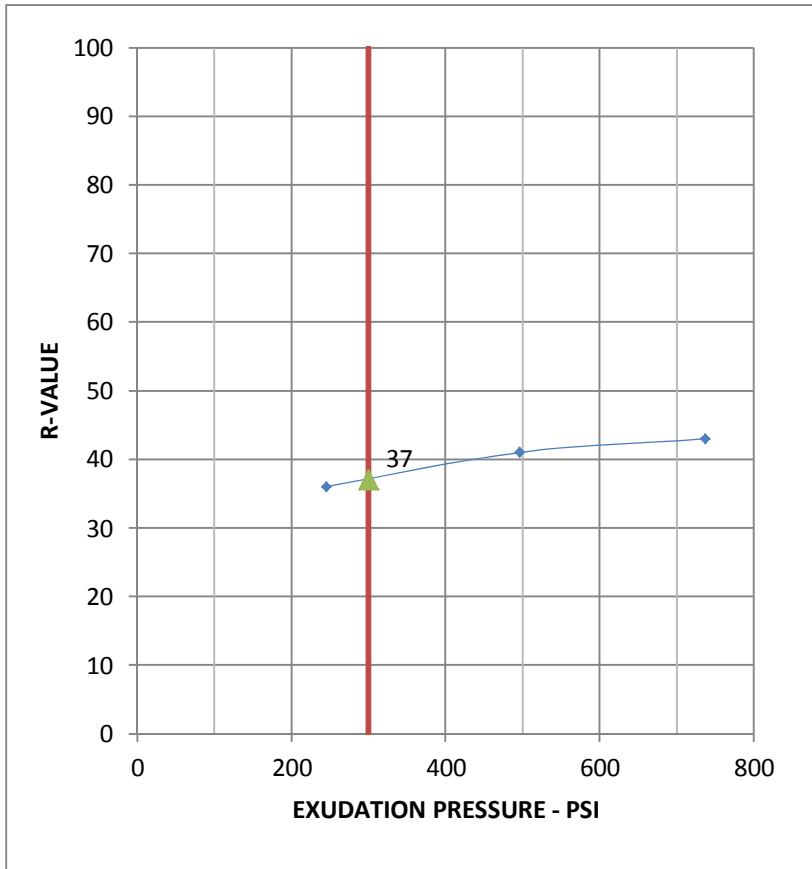
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
 Date: 3.4.13

PLATE R15



Test Summary Table - Sta 435A+00			
Unit Weight (pcf)	105.0	102.2	115.7
Moisture (%)	14.2	12.2	10.1
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	245	496	737
Expansion Pressure (psf)	3	3	13
R-Value _{300psi Exudation}	36	41	43

Test Summary Table - Sta 455+00			
Unit Weight (pcf)	109.7	109.5	108.4
Moisture (%)	11.9	10.3	8.3
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	282	654	701
Expansion Pressure (psf)	0	3	8
R-Value _{300psi Exudation}	47	55	60



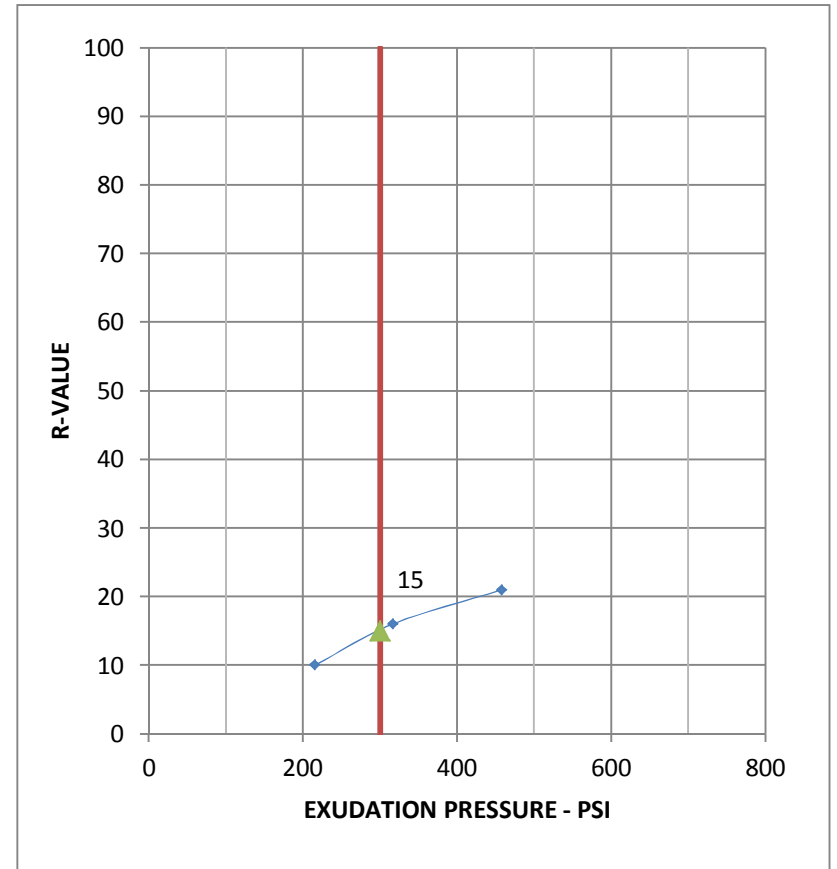
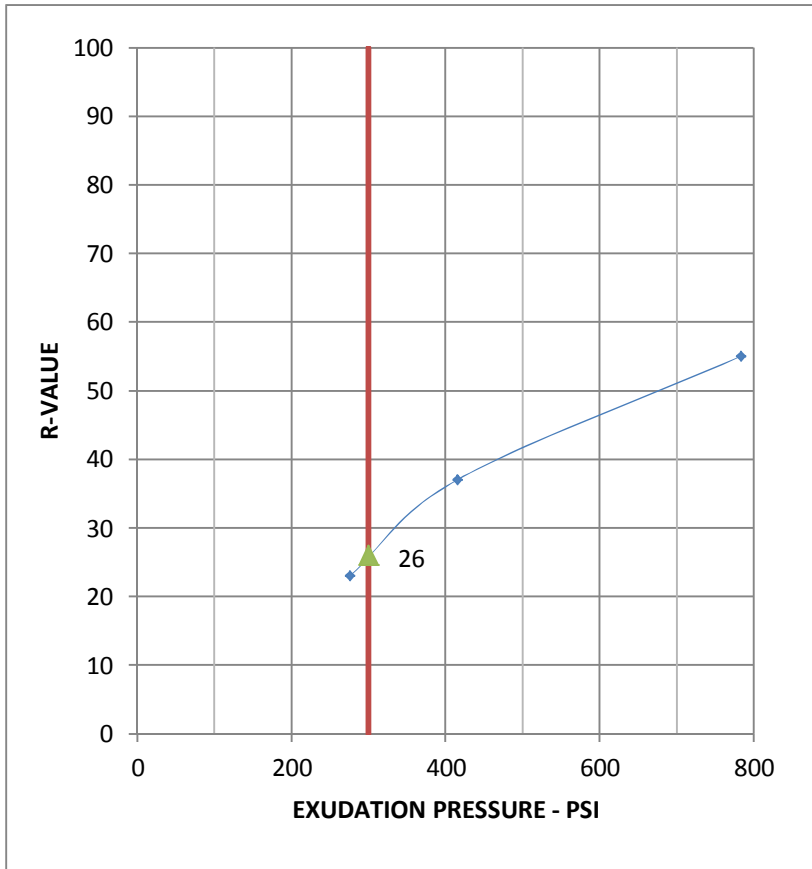
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
Date: 3.4.13

**PLATE
R16**



Test Summary Table - Sta 435B+00 0-2'			
Unit Weight (pcf)	113.0	115.5	114.0
Moisture (%)	16.7	14.6	12.4
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	276	415	783
Expansion Pressure (psf)	2	3	4
R-Value _{300psi Exudation}	23	37	55

Test Summary Table - Sta 465+00 0-1'			
Unit Weight (pcf)	97.4	99.4	102.1
Moisture (%)	24.0	22.9	21.8
Foot Pressure (psi)	80	130	200
Exudation Pressure (psi)	216	317	458
Expansion Pressure (psf)	3	5	5
R-Value _{300psi Exudation}	10	16	21



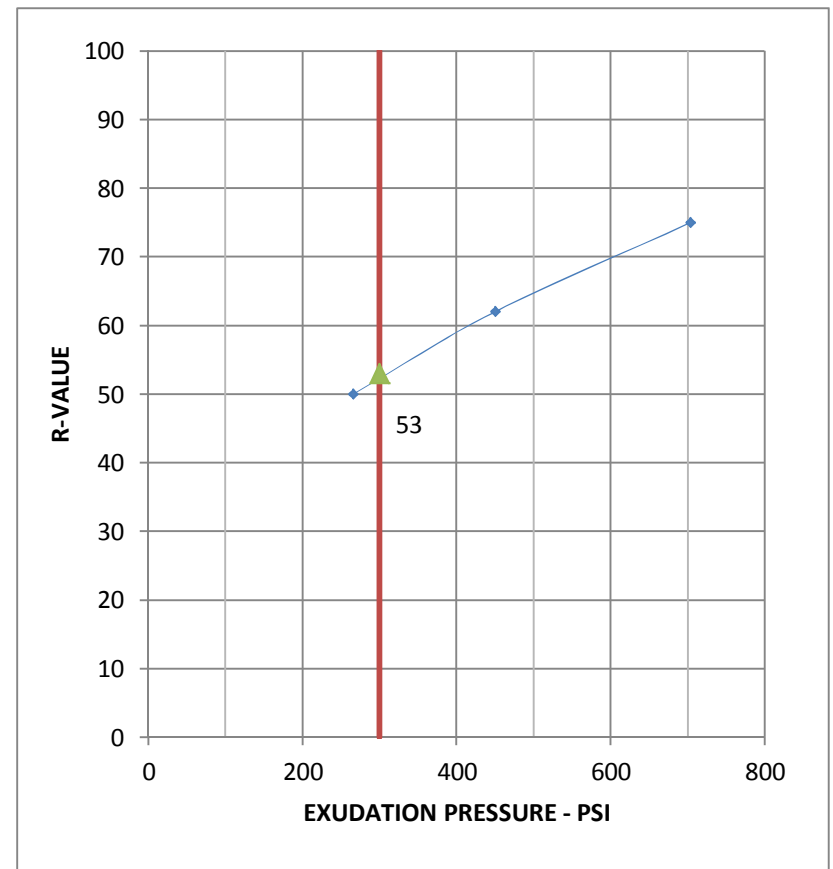
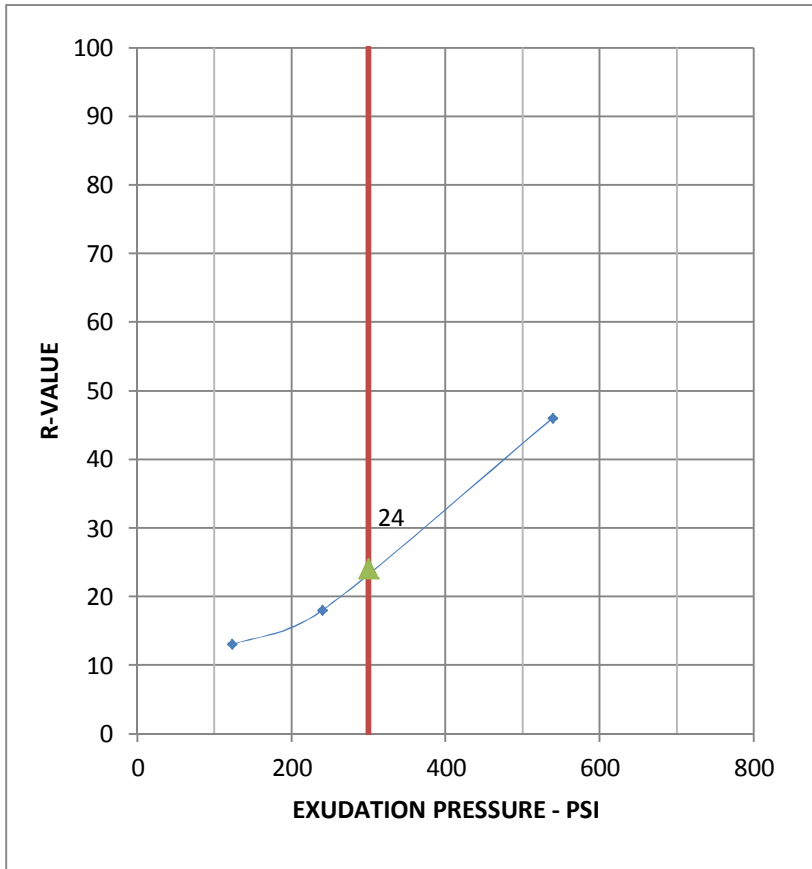
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
Date: 3.4.13

PLATE
R17



Test Summary Table - Sta 475+00 1-2'			
Unit Weight (pcf)	90.4	92.1	96.7
Moisture (%)	28.8	26.5	24.0
Foot Pressure (psi)	60	150	200
Exudation Pressure (psi)	123	240	539
Expansion Pressure (psf)	10	17	25
R-Value _{300psi Exudation}	13	18	46

Test Summary Table - Sta 490+00 0-1'			
Unit Weight (pcf)	110.4	107.9	107.7
Moisture (%)	17.5	16.4	14.3
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	266	450	704
Expansion Pressure (psf)	5	5	10
R-Value _{300psi Exudation}	49	62	75

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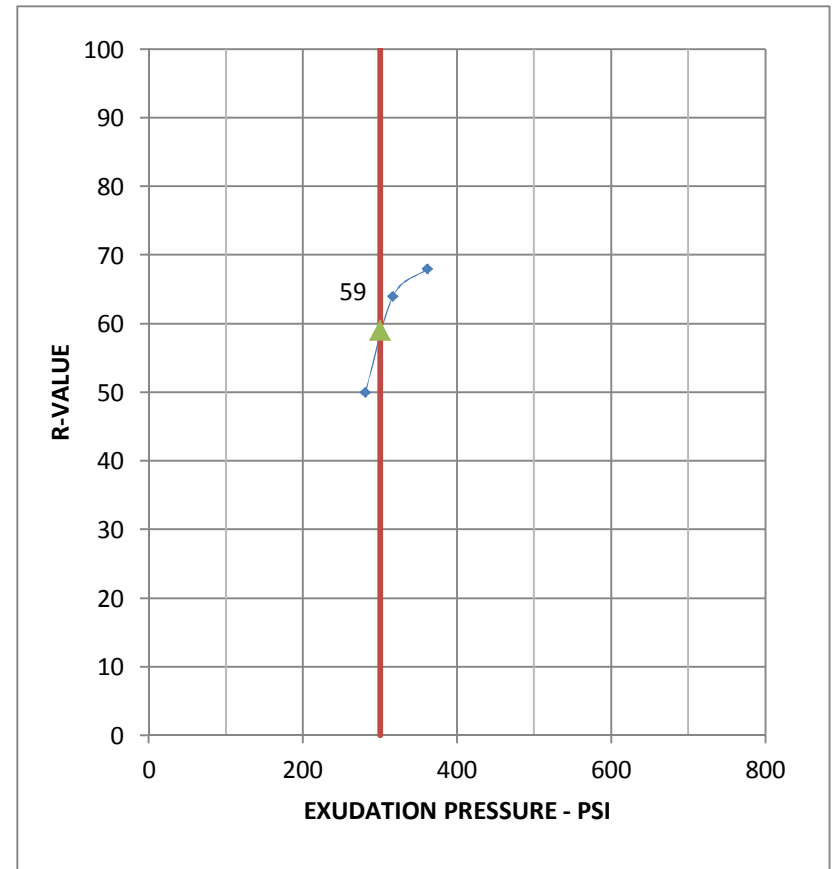
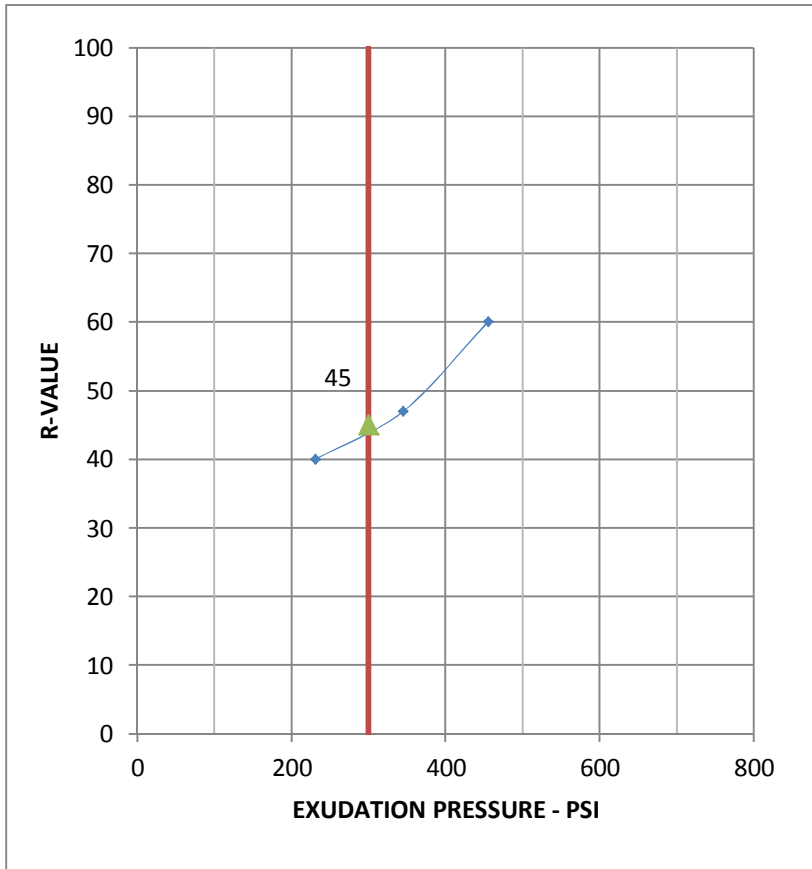
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
 Date: 3.4.13

PLATE R18



Test Summary Table - Sta 510+00 1-2'			
Unit Weight (pcf)	104.3	105.3	104.4
Moisture (%)	19.5	18.3	18.0
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	231	345	455
Expansion Pressure (psf)	17	17	15
R-Value _{300psi Exudation}	40	47	60

Test Summary Table - Sta 525+00 1-2'			
Unit Weight (pcf)	74.4	78.9	75.4
Moisture (%)	31.6	28.0	30.3
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	281	317	362
Expansion Pressure (psf)	11	11	12
R-Value _{300psi Exudation}	50	64	68



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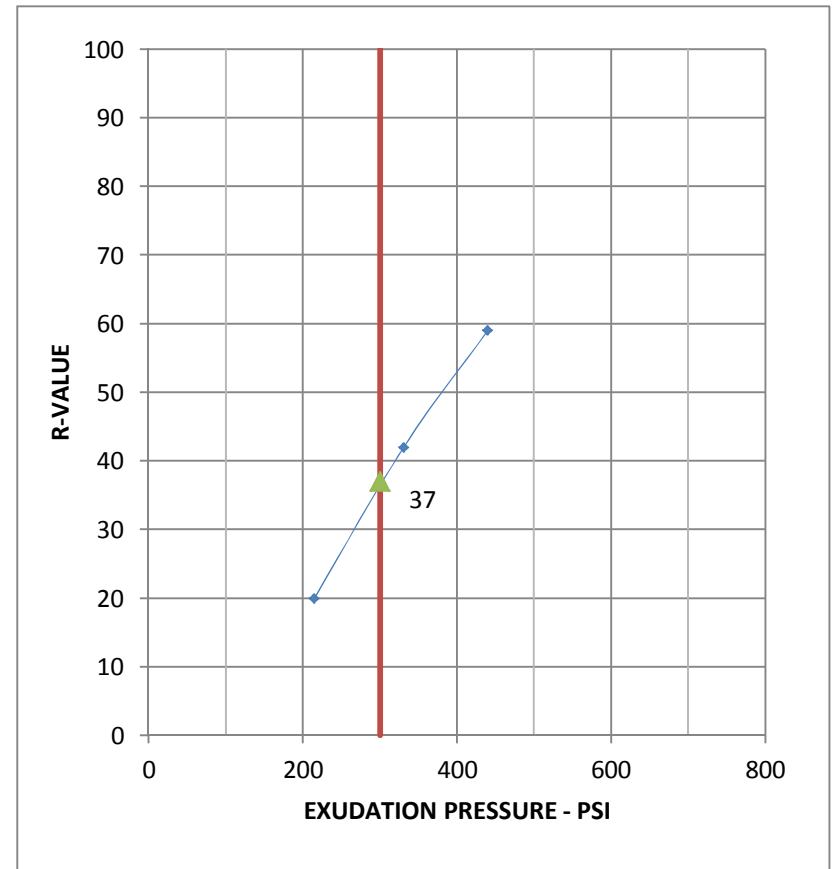
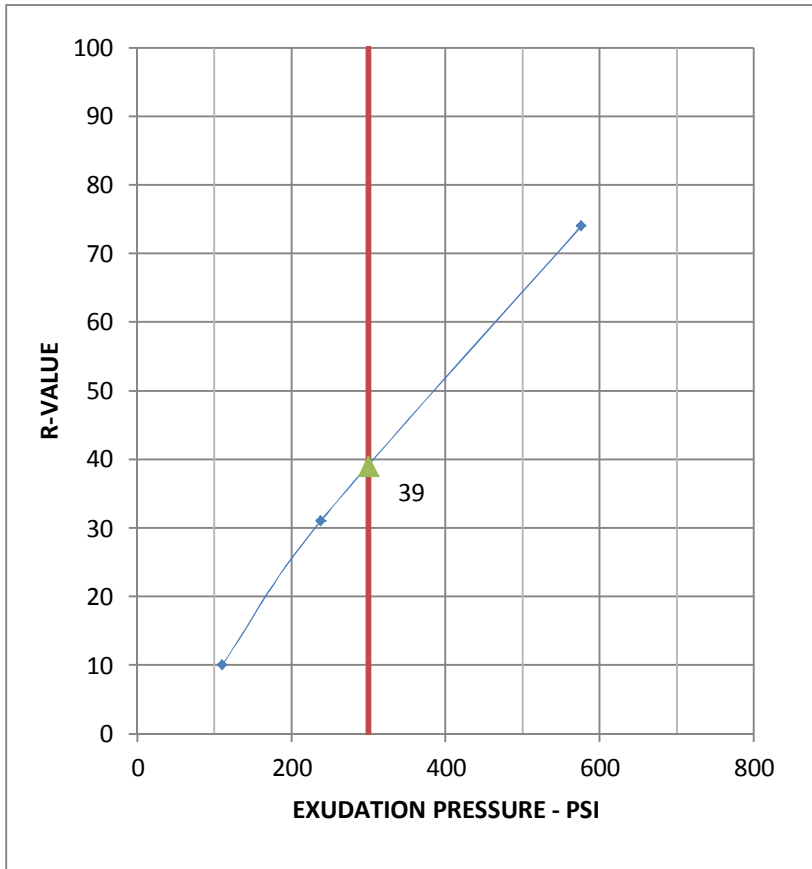
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
 Date: 3.4.13

PLATE R19



Test Summary Table - Sta 535+00 2-3'			
Unit Weight (pcf)	107.0	109.3	109.9
Moisture (%)	19.5	17.3	15.4
Foot Pressure (psi)	80	200	200
Exudation Pressure (psi)	110	238	576
Expansion Pressure (psf)	0	12	12
R-Value _{300psi Exudation}	10	34	74

Test Summary Table - Sta 555+00 1-2'			
Unit Weight (pcf)	108.8	111.6	112.8
Moisture (%)	18.3	17.2	16.1
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	215	331	440
Expansion Pressure (psf)	34	17	5
R-Value _{300psi Exudation}	20	42	59

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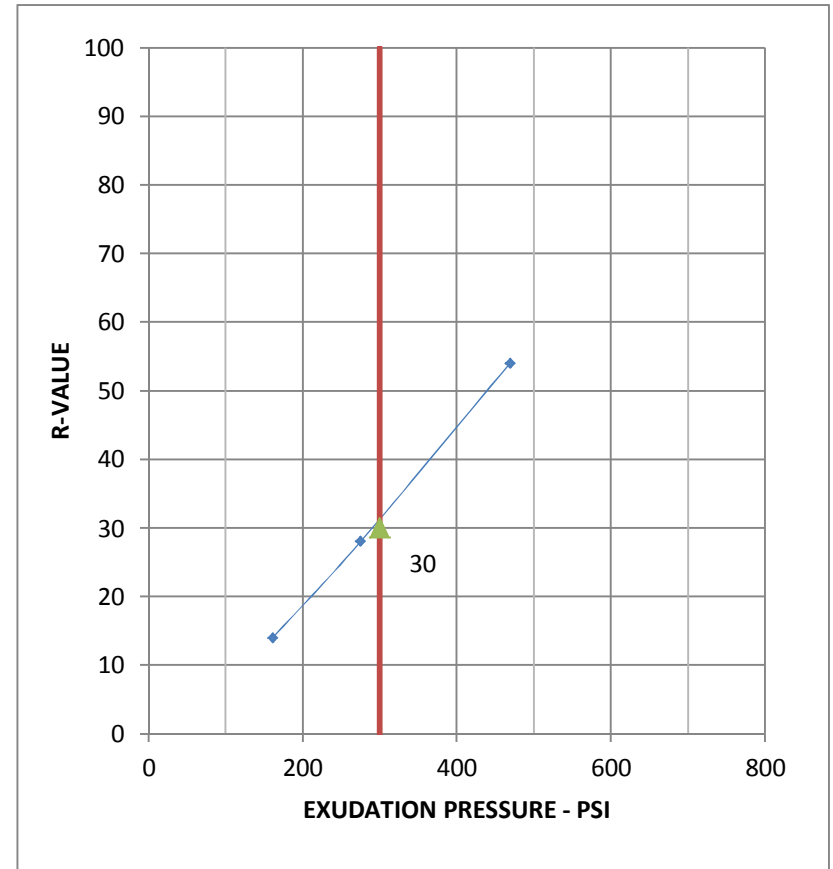
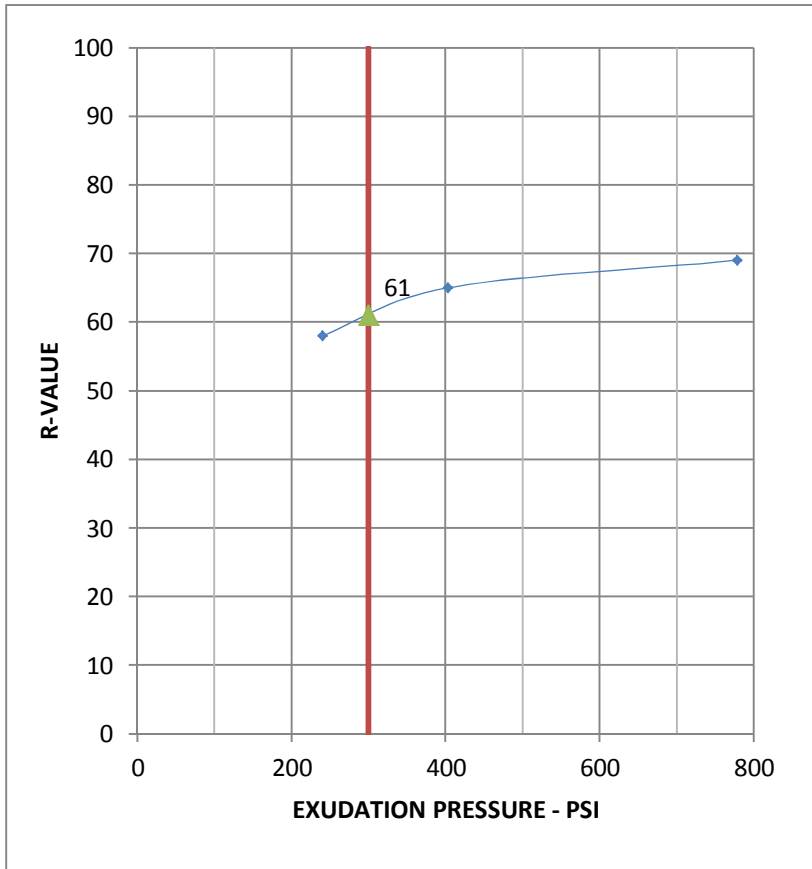
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
 Date: 3.4.13

PLATE R20



Test Summary Table - Sta 570+00 0-1'			
Unit Weight (pcf)	113.3	114.5	115.5
Moisture (%)	13.4	12.4	11.3
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	240	403	778
Expansion Pressure (psf)	20	17	6
R-Value _{300psi Exudation}	58	65	69

Test Summary Table - Sta 590+00 0-1'			
Unit Weight (pcf)	105.5	105.5	109.7
Moisture (%)	19.8	18.5	17.4
Foot Pressure (psi)	80	200	200
Exudation Pressure (psi)	161	275	469
Expansion Pressure (psf)	23	23	16
R-Value _{300psi Exudation}	14	28	54



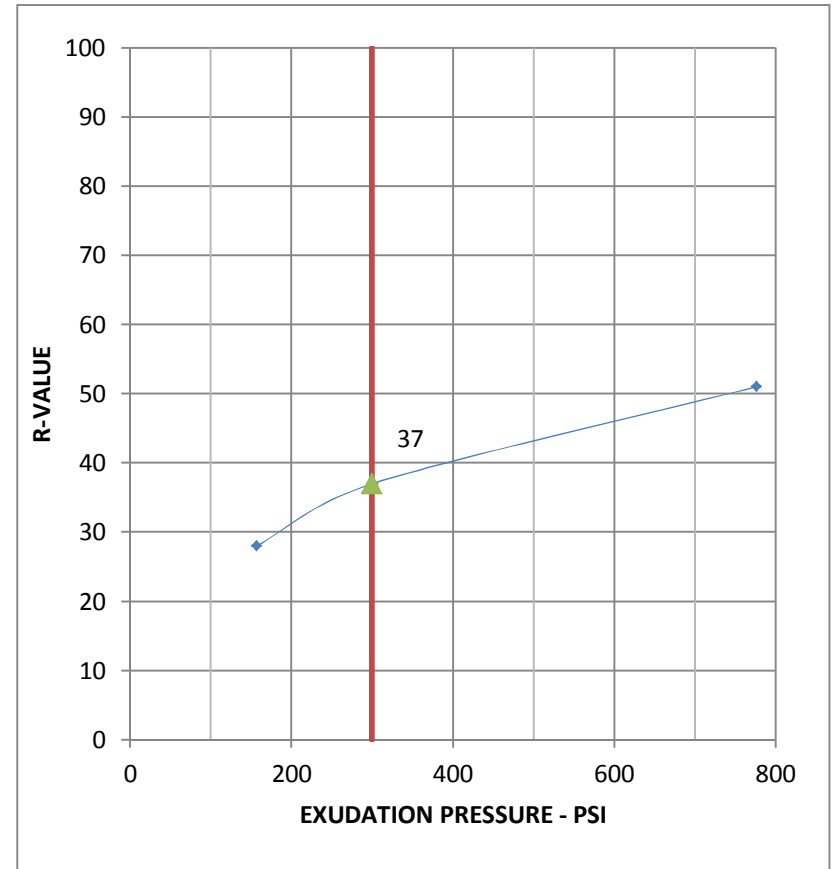
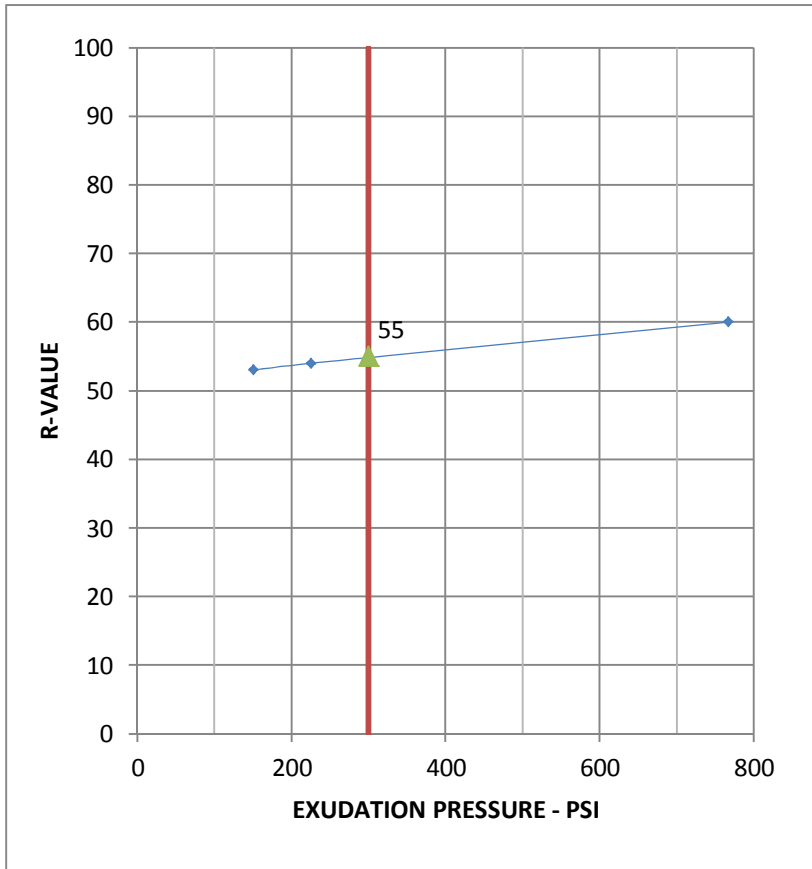
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
Date: 3.4.13

PLATE
R21



Test Summary Table - Sta 620+00 0-2'			
Unit Weight (pcf)	88.3	100.9	103.0
Moisture (%)	20.1	19.1	17.9
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	150	225	767
Expansion Pressure (psf)	20	20	66
R-Value _{300psi Exudation}	53	54	60

Test Summary Table - Sta 640+00 0-1 1/2'			
Unit Weight (pcf)	113.3	112.8	112.9
Moisture (%)	16.4	14.3	12.1
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	157	301	776
Expansion Pressure (psf)	3	3	21
R-Value _{300psi Exudation}	28	37	51



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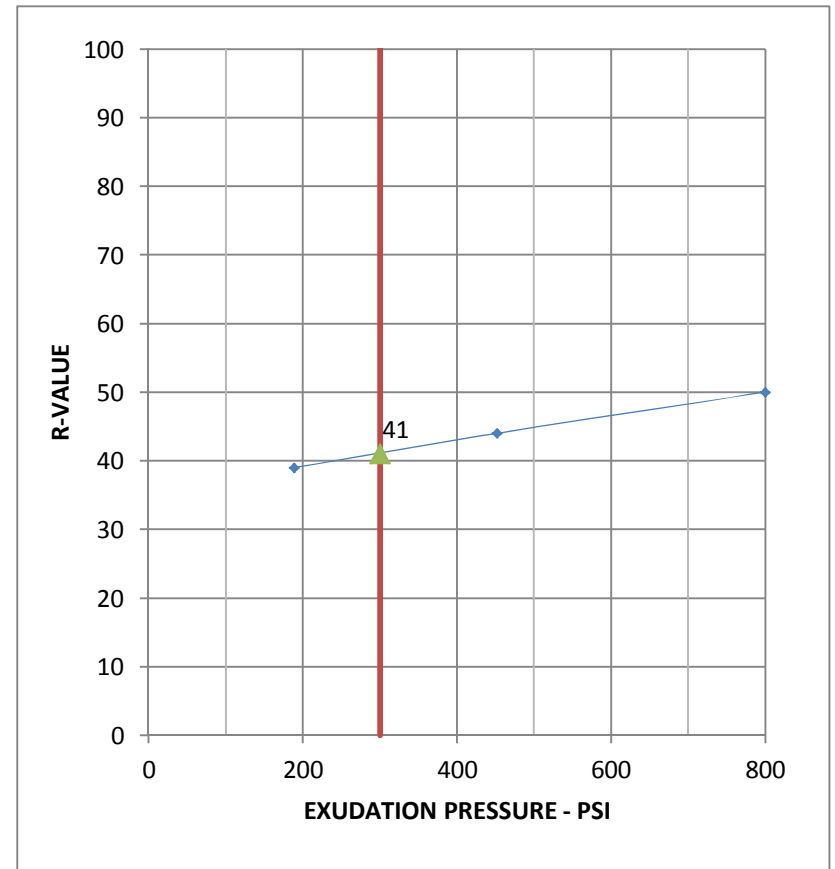
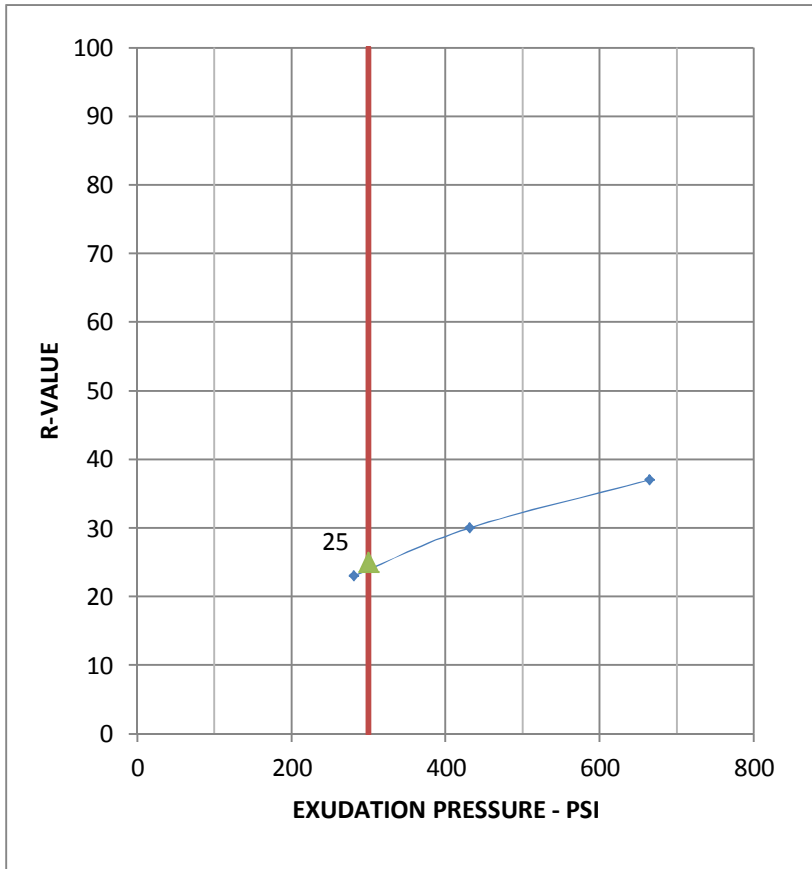
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
 Date: 3.4.13

**PLATE
R22**



Test Summary Table - Sta 655+00 0-1'			
Unit Weight (pcf)	97.6	98.7	100.4
Moisture (%)	26.6	22.4	22.2
Foot Pressure (psi)	90	125	200
Exudation Pressure (psi)	281	431	665
Expansion Pressure (psf)	0	4	27
R-Value _{300psi Exudation}	23	30	37

Test Summary Table - Sta 680+00 0-2'			
Unit Weight (pcf)	102.3	103.4	105.0
Moisture (%)	20.5	19.4	18.2
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	189	452	800
Expansion Pressure (psf)	5	1	13
R-Value _{300psi Exudation}	46	40	50



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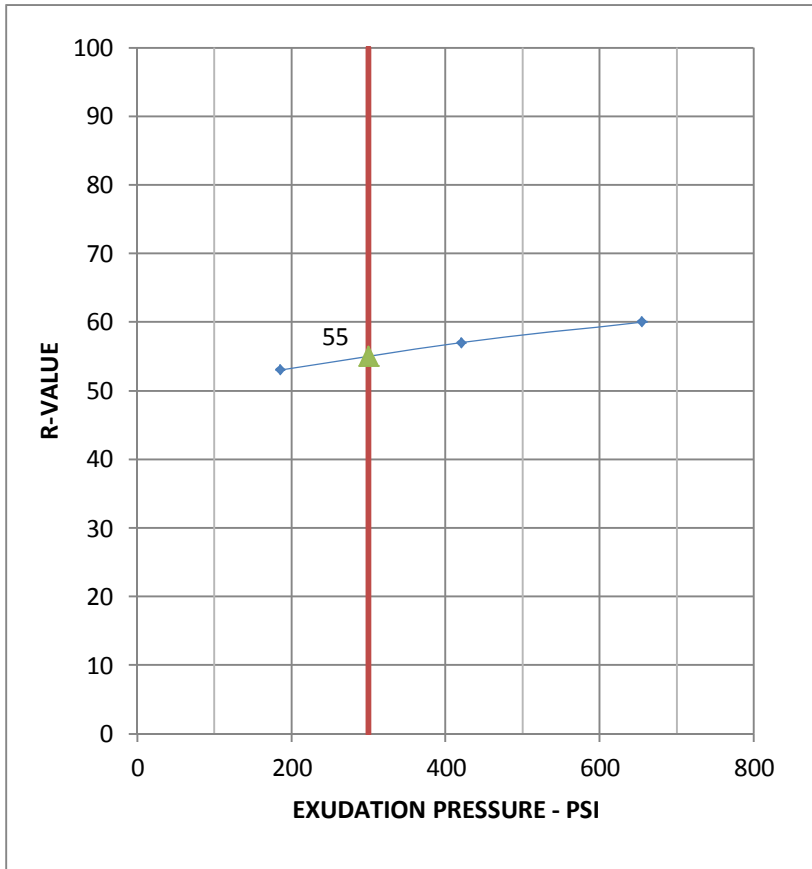
SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
 Date: 3.4.13

PLATE R23



Test Summary Table - Sta 680+00 0-2'

Unit Weight (pcf)	115.6	116.9	117.2
Moisture (%)	15.6	16.2	16.1
Foot Pressure (psi)	200	200	200
Exudation Pressure (psi)	185	420	655
Expansion Pressure (psf)	10	10	22
R-Value _{300psi Exudation}	53	57	60



SUMMARY OF R-VALUE TEST DATA

Geotechnical Investigation

USA Parkway

Project No.: 8480.001
 Date: 3.4.13

**PLATE
R24**

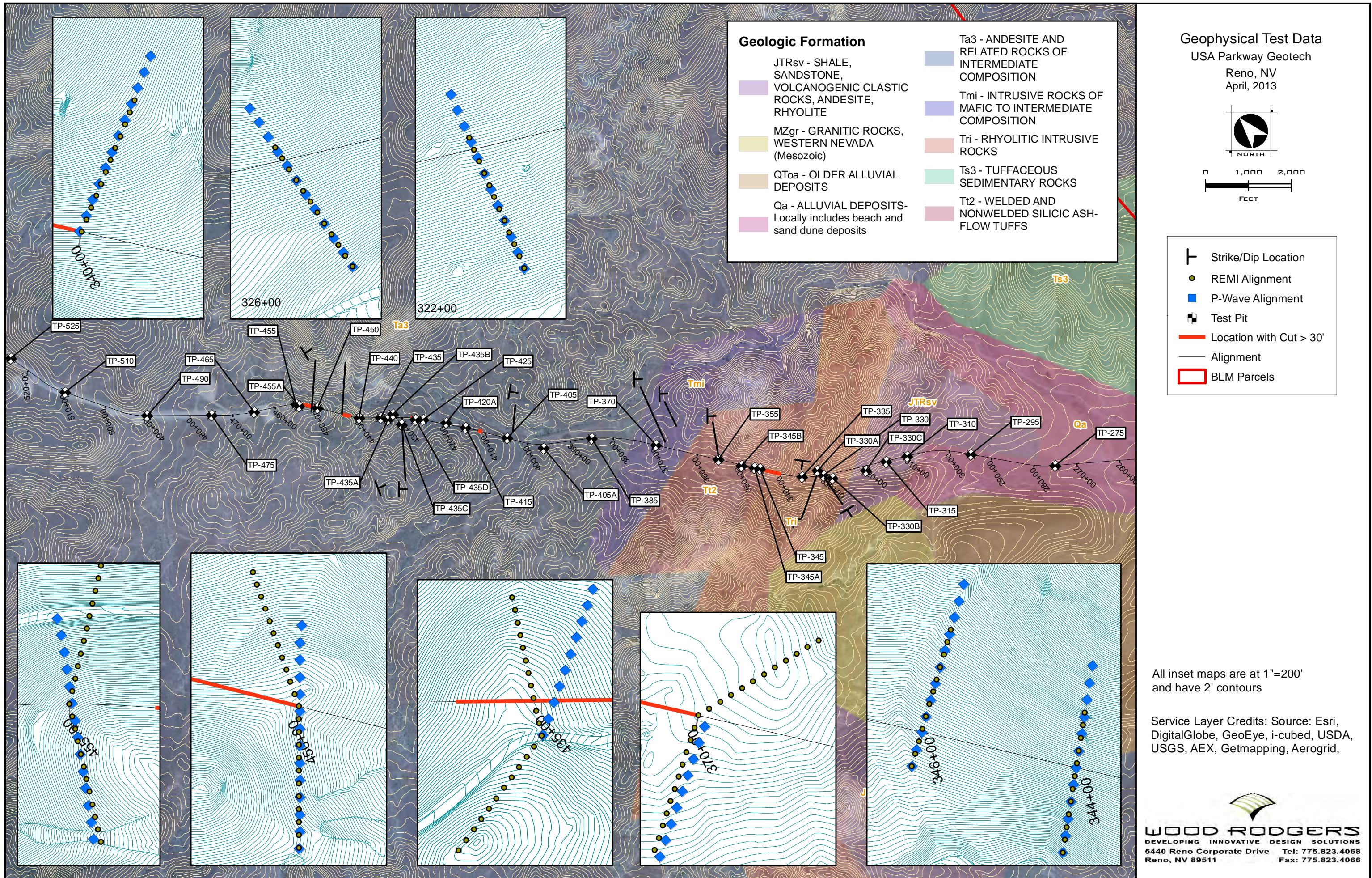
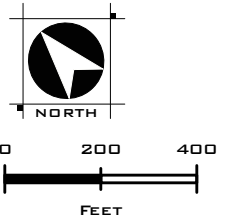


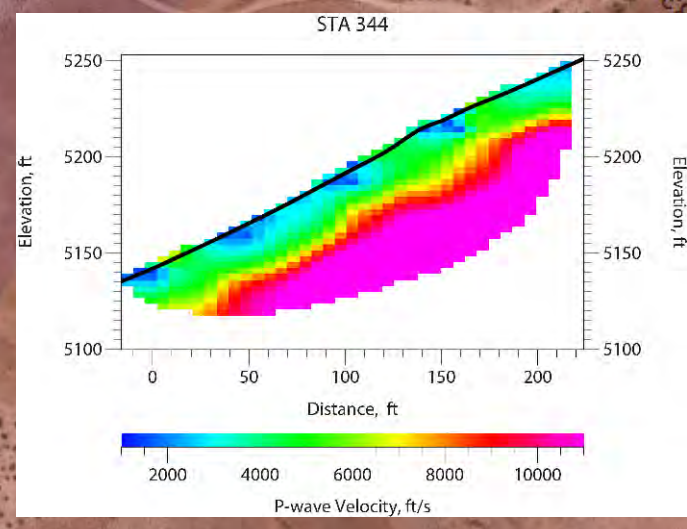
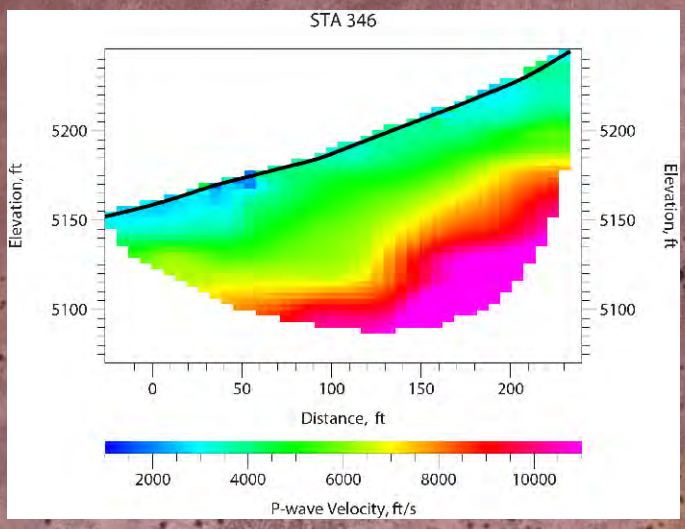
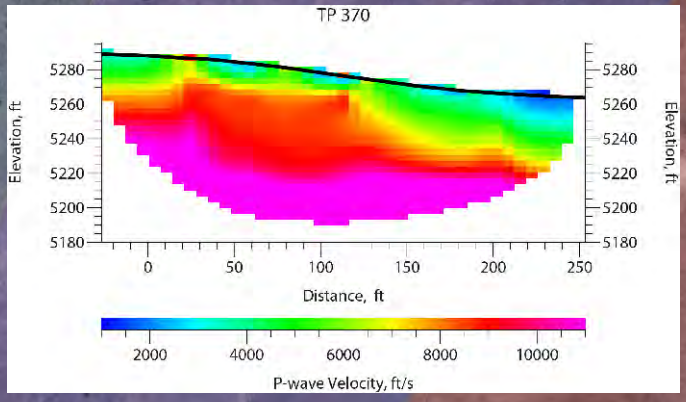
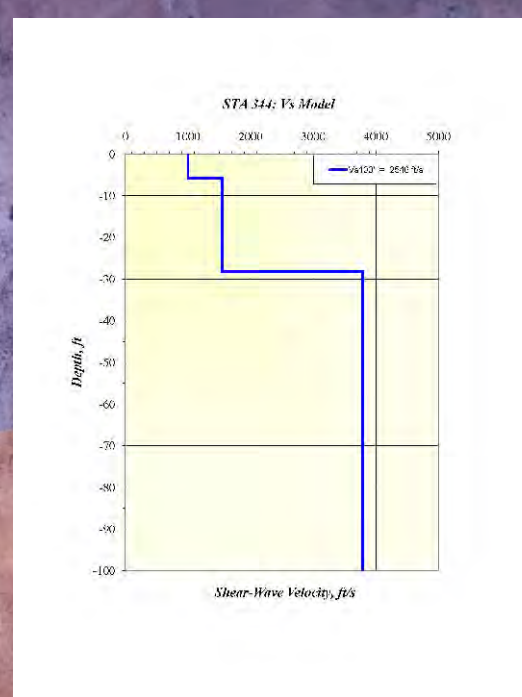
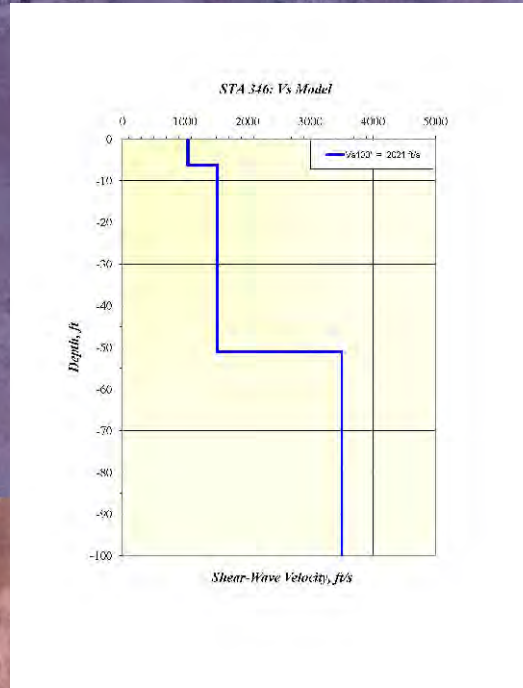
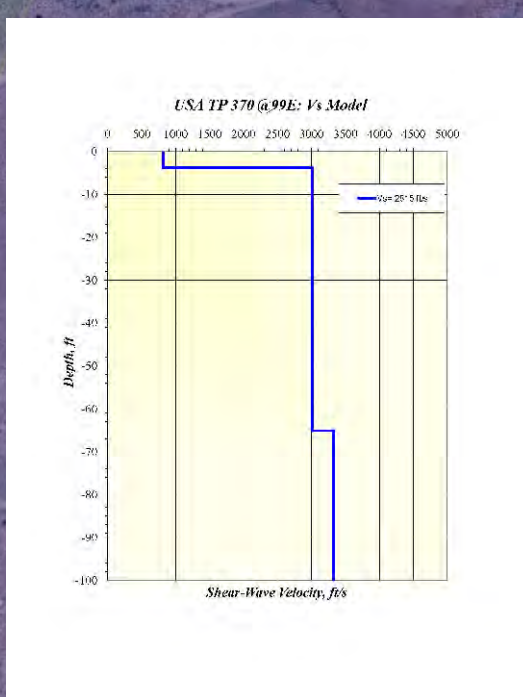
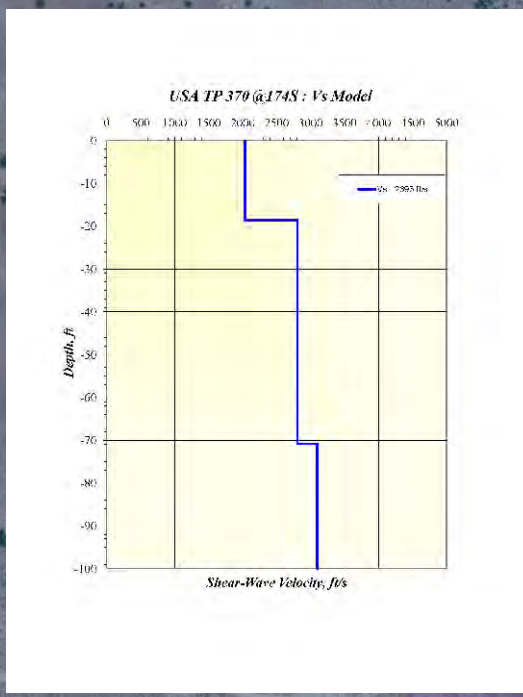
FIGURE B1

Geophysical Test Data
USA Parkway Geotech
Reno, NV
April, 2013



- P-Wave Alignment
- REMI Alignment
- Test Pit
- Location with Cut > 30'
- Alignment
- BLM Parcels

- Geologic Formation**
- Ta3 - ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION
 - Tmi - INTRUSIVE ROCKS OF MAFIC TO INTERMEDIATE COMPOSITION
 - Tri - RHYOLITIC INTRUSIVE ROCKS
 - Tt2 - WELDED AND NONWELDED SILICIC ASH-FLOW TUFFS

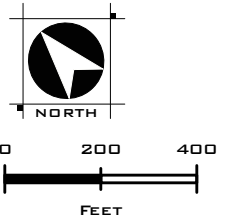


Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

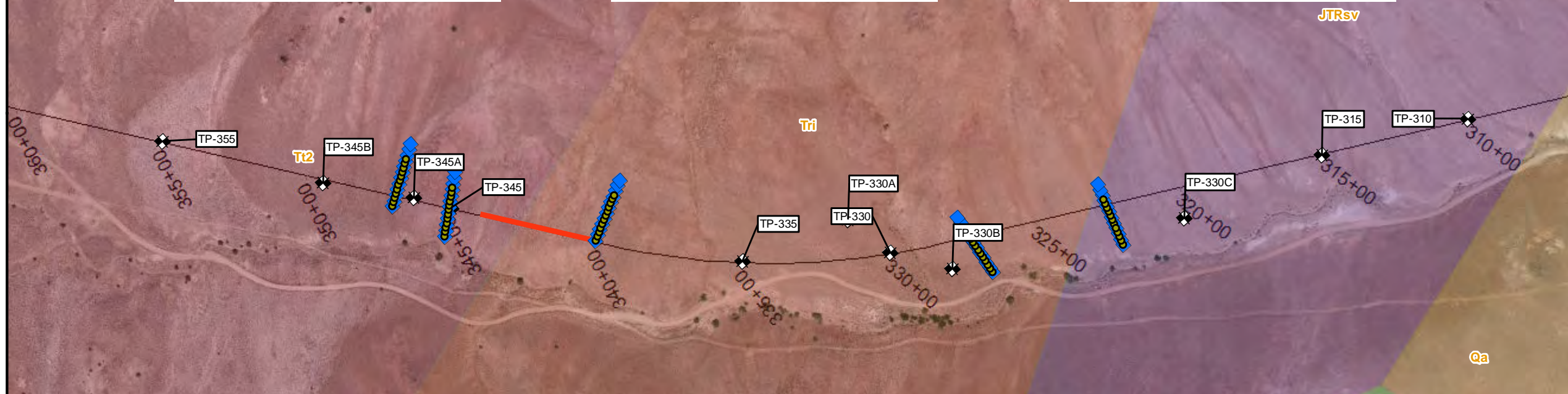
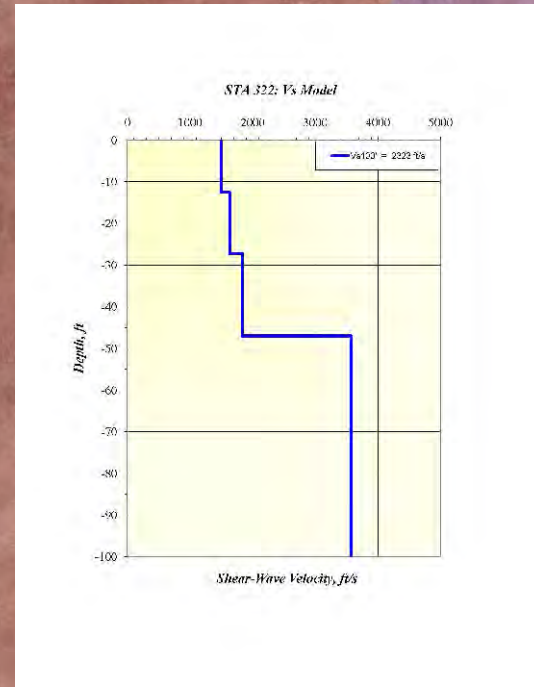
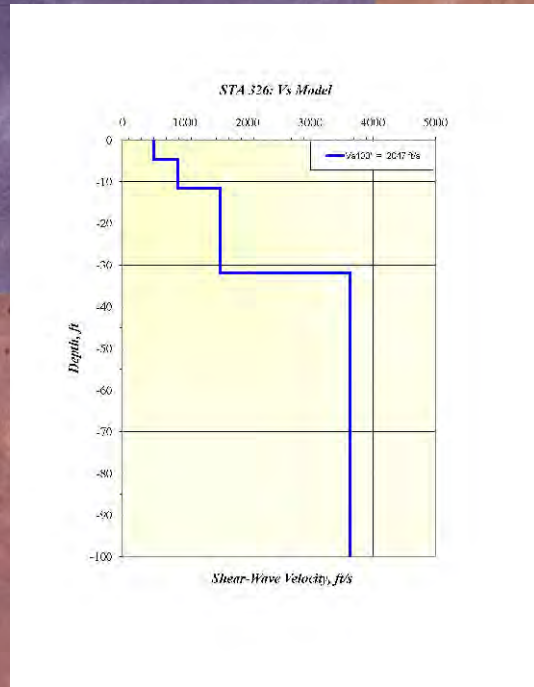
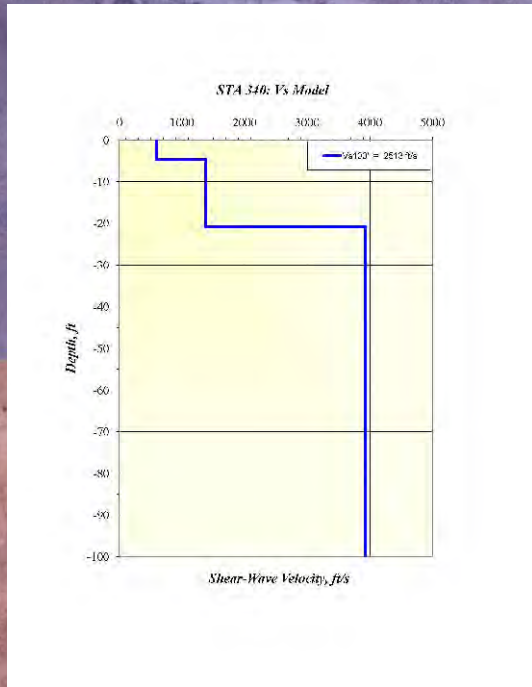
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FIGURE B2

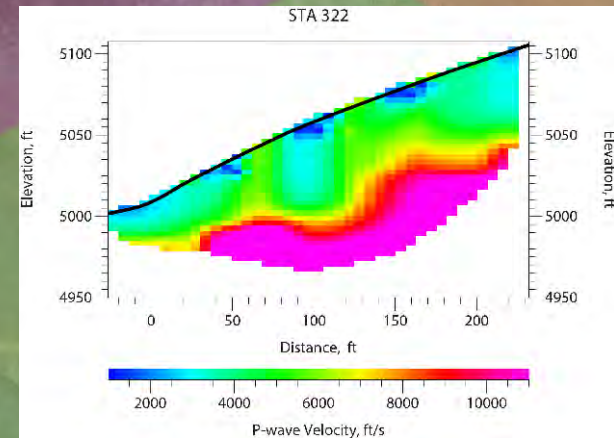
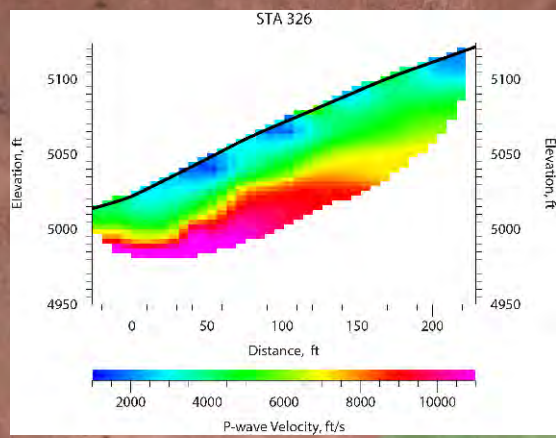
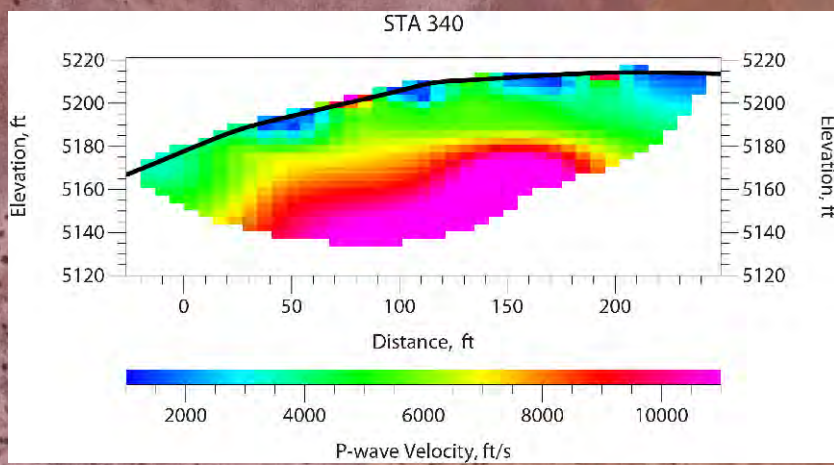
Geophysical Test Data
USA Parkway Geotech
Reno, NV
April, 2013



- P-Wave Alignment
- REMI Alignment
- + Test Pit
- Location with Cut > 30'
- Alignment
- BLM Parcels



- Geologic Formation**
- JTRsv - SHALE, SANDSTONE, VOLCANOGENIC CLASTIC ROCKS, ANDESITE, RHYOLITE
 - MZgr - GRANITIC ROCKS, WESTERN NEVADA (Mesozoic)
 - Qa - ALLUVIAL DEPOSITS- Locally includes beach and sand dune deposits
 - Tmi - INTRUSIVE ROCKS OF MAFIC TO INTERMEDIATE COMPOSITION
 - Tri - RHYOLITIC INTRUSIVE ROCKS
 - Tt2 - WELDED AND NONWELDED SILICIC ASH-FLOW TUFFS
 - Toa - (partially visible)

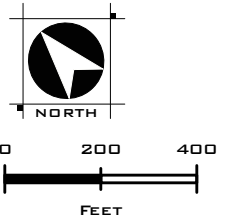


Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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FIGURE B3

Geophysical Test Data
USA Parkway Geotech
Reno, NV
April, 2013



- P-Wave Alignment
- REMI Alignment
- Test Pit
- Location with Cut > 30'
- Alignment
- BLM Parcels

Geologic Formation

- Ta3 - ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION

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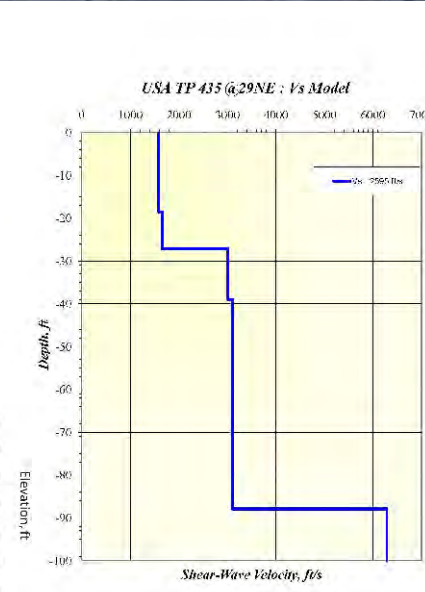
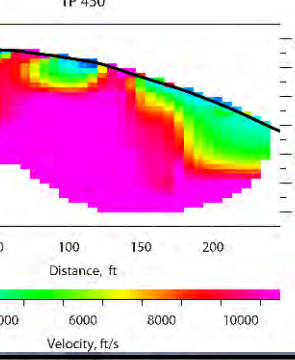
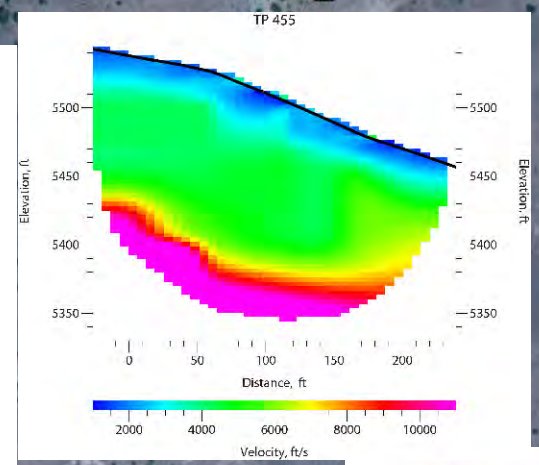
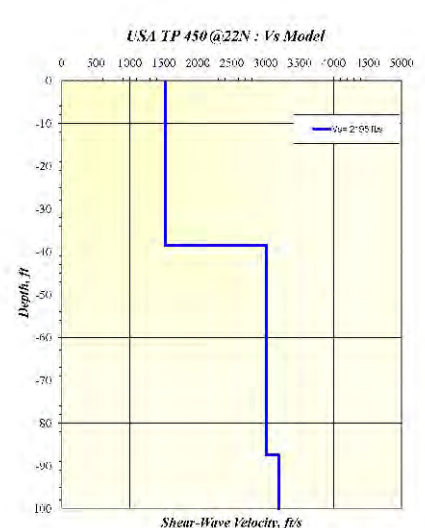
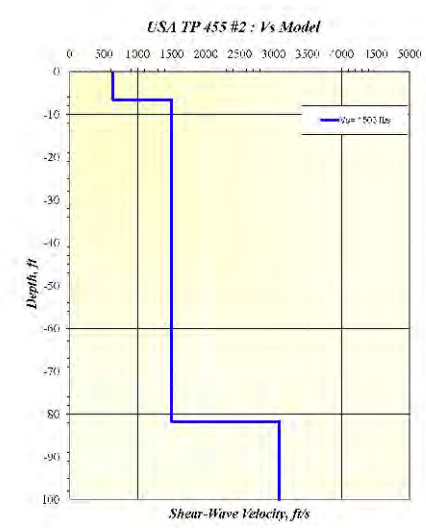
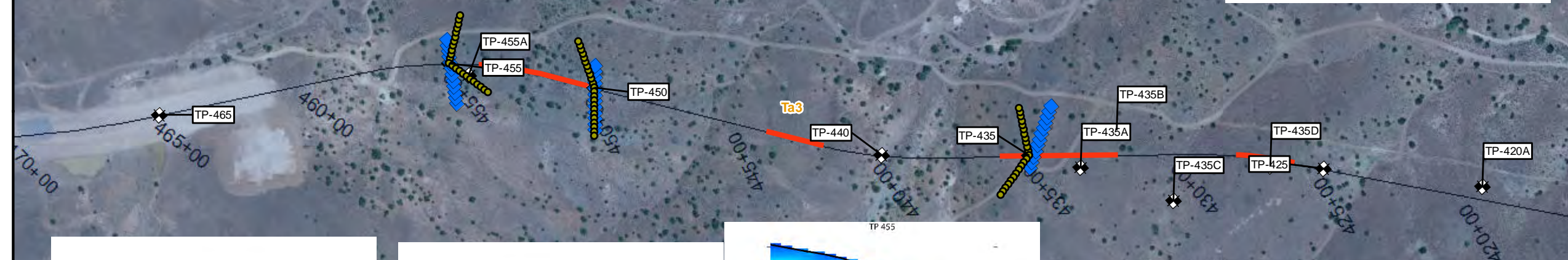
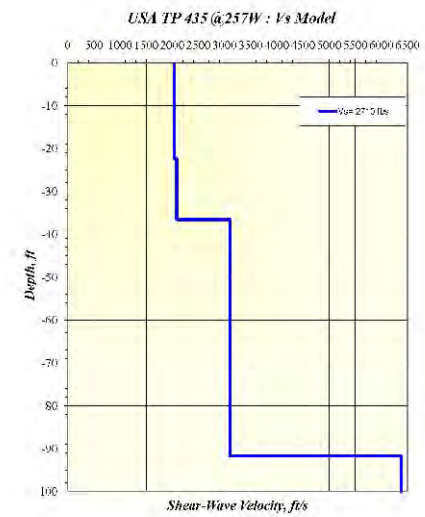
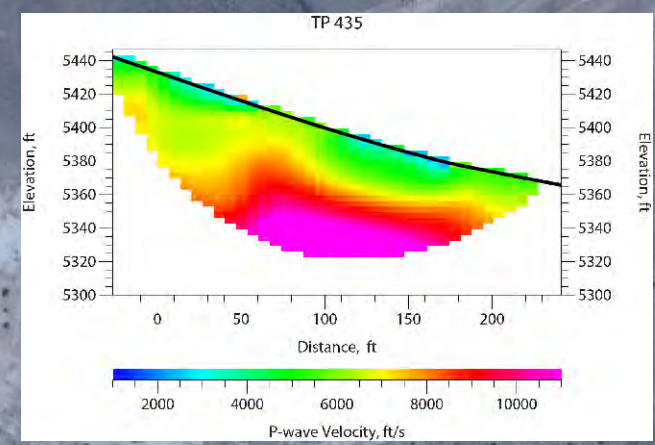
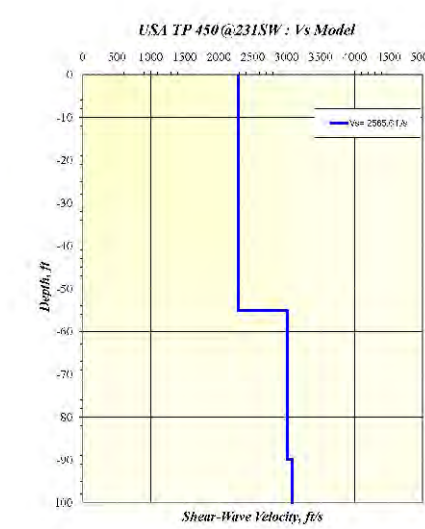
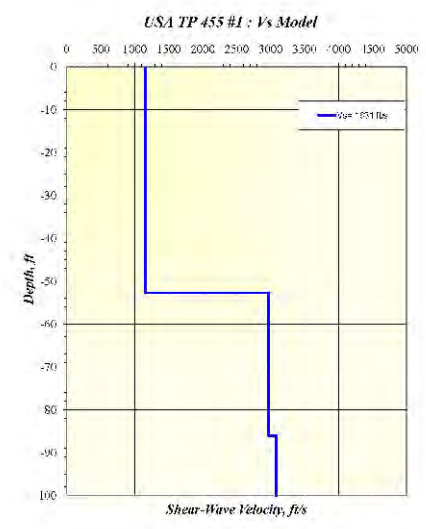
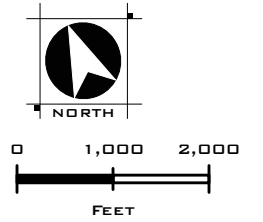


FIGURE B4



Photo Summary
 USA Parkway Geotech
 Reno, NV
 April, 2013



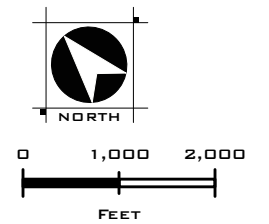
- Test Pit
- Location with Cut > 30'
- Alignment
- BLM Parcels

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,

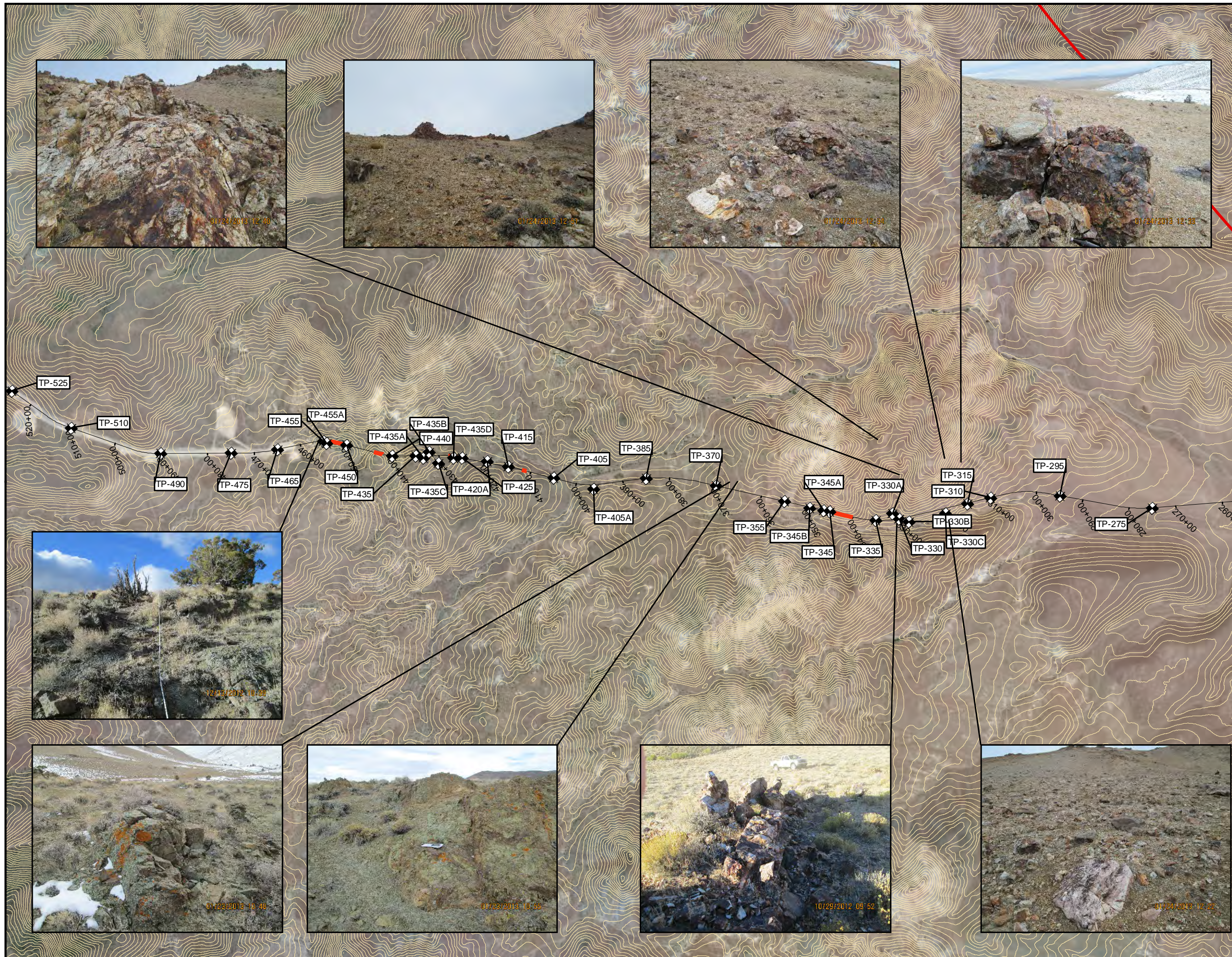
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 5440 Reno Corporate Drive Tel: 775.823.4068
 Reno, NV 89511 Fax: 775.823.4066

FIGURE C1

Photo Summary
USA Parkway Geotech
Reno, NV
April, 2013



- Test Pit
- Location with Cut > 30'
- Alignment
- BLM Parcels

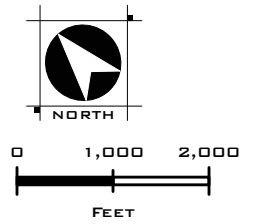


Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,



FIGURE C2

Photo Summary
USA Parkway Geotech
Reno, NV
April, 2013



- Test Pit
- Location with Cut > 30'
- Alignment
- BLM Parcels

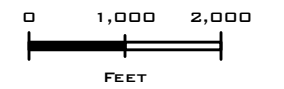






Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,



FIGURE C3

Photo Summary
USA Parkway Geotech
Reno, NV
April, 2013



-  Test Pit
-  Location with Cut > 30'
-  Alignment
-  BLM Parcels



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,



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FIGURE C4