

STATE OF NEVADA

DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

GEOTECHNICAL SECTION

LINE SAMPLING DATA

**US93, Clark County, from near Apex Power Pkwy
to 11 Miles North of Apex Power Pkwy**

Mile Post CL 57.00 to CL 68.00

CLARK COUNTY, NEVADA

EA 73644

January 2017

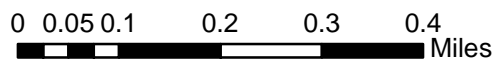
This report presents laboratory test results consisting of gradation, liquid limit, plasticity index, and R-value data only. No interpretations of the data are presented. The tests were performed on samples collected at the locations and depths indicated on the individual data sheets. Each boring was advanced with a 6-inch solid-stem auger. Samples were collected from cuttings brought to the surface on auger flights while advancing borings the corresponding depth intervals. Tests were performed in accordance with Nevada standard test procedures. Individual samples might not be representative of the depth intervals indicated:

- Each sample is a mixture of strata encountered within the depth penetrated and is not necessarily representative of an individual stratum.
- Oversized material might not be brought to the surface and included in the sample.
- Deeper samples inevitably contain some material from the sides of the borehole above the sample interval.
- Drilling action might break individual particles into smaller pieces.



• Drill Holes

**US-93 from just N of Apex Power Pkwy
to 4.2 miles N of Apex Power Pkwy
CL 57.00 to CL 61.00**



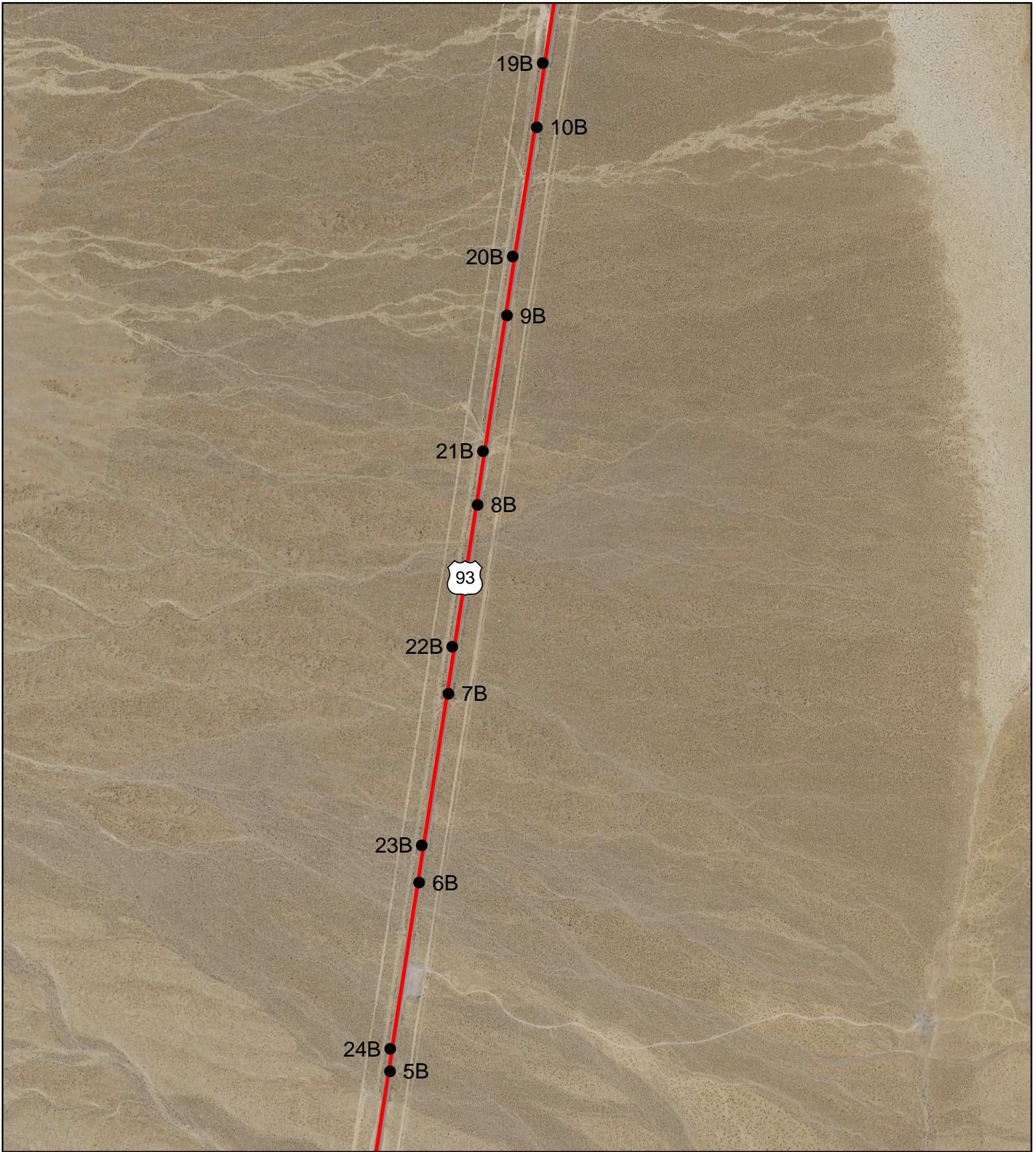
Brian Sandoval
Governor



Rudy Malfabon, P.E.
Director

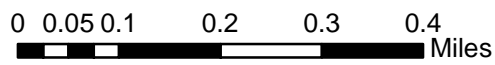
Nevada Department of Transportation
1263 South Stewart Street
Carson City, Nevada 89712
(775) 888-7000

THIS MAP IS FOR DISPLAY PURPOSES ONLY.
MAP COMPILED FROM BEST AVAILABLE DATA SOURCES.
NOT ALL FEATURES PORTRAYED DUE TO SCALE.



• Drill Holes

**US-93 from just N of Apex Power Pkwy
to 4.2 miles N of Apex Power Pkwy
CL 57.00 to CL 61.00**



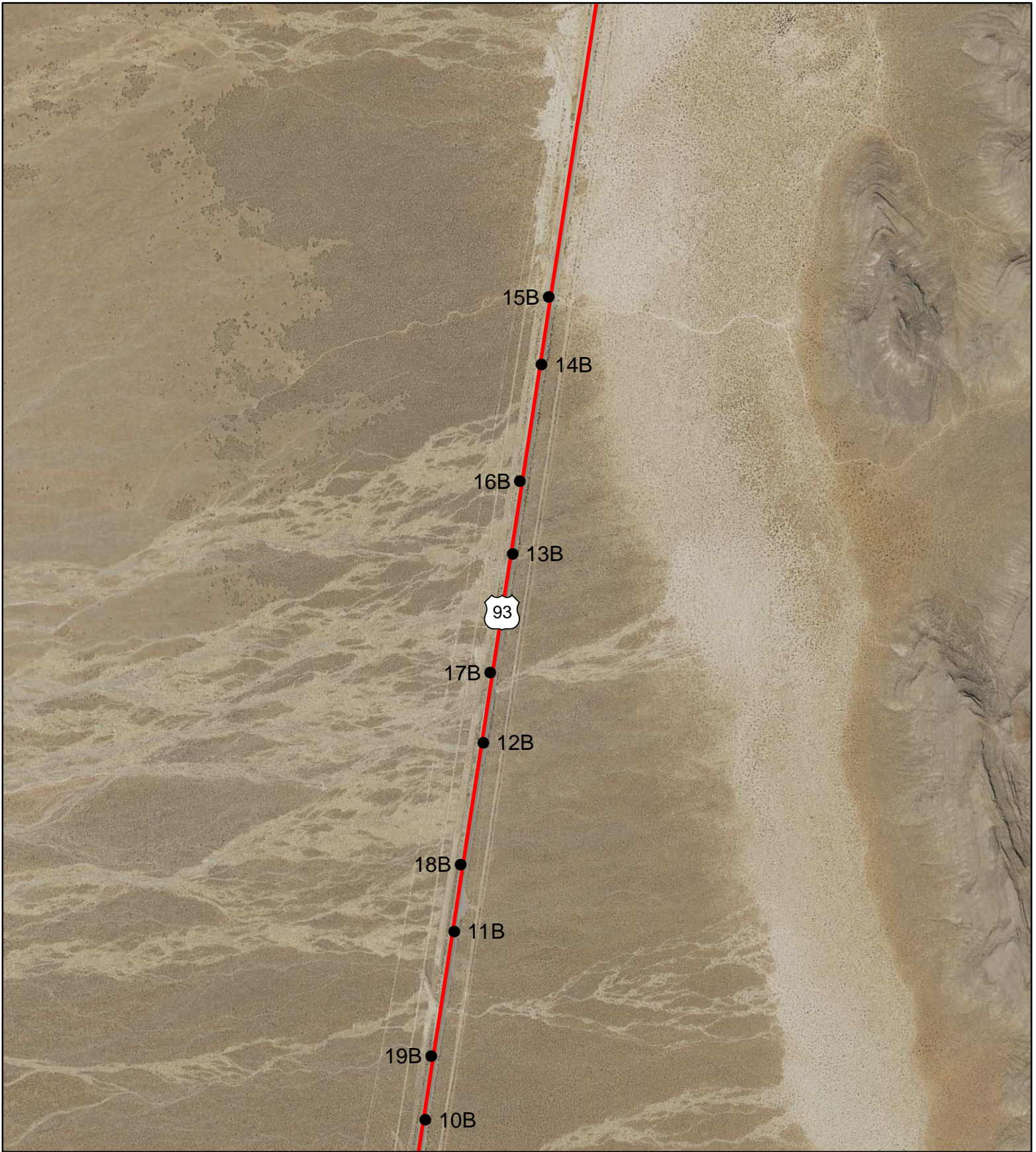
Brian Sandoval
Governor



Rudy Malfabon, P.E.
Director

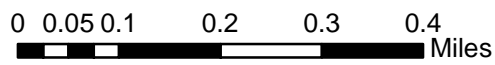
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• Drill Holes

**US-93 from just N of Apex Power Pkwy
to 4.2 miles N of Apex Power Pkwy
CL 57.00 to CL 61.00**



Brian Sandoval
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LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-103-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57+00 Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. _____ Rt. 10'
 Sample No.: 1B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>11"</u> Remarks: Base is 0' - 2' _____ 11" Oil Subgrade is 2' - 5' _____ 18" Base Submitted By: <u>D. WHIE</u> Title: <u>Engineering Technician V</u>	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	98
1/2"	82
3/8"	65
No. 4	37
No. 10	25
No. 16	21
No. 40	17
No. 50	16
No. 100	14
No. 200	11

Liquid Limit	<u>19</u>	
Plastic Index	<u>2</u>	
Specific Gravity	_____	
Resistance Value	<u>81</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>3.1</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-a</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-104-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: 1500 feet past MP 57 hole 1 Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. _____ Rt. 10'
 Sample No.: 2B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		0--
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	2
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Subgrade	4-- 300
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		6--
Gravel Depth (in) _____ Oil Depth (in) <u>10"</u> 1'-9" Base	8--		8--
Remarks: Base is 0' - 2'	10--		10--
Subgrade is 2' - 5'	12--		12--
	14--		14--
	16--		16--
Submitted By: <u>D. WHIE</u>	18--		18--
Title: <u>Engineering Technician V</u>	20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	91
3/8"	81
No. 4	52
No. 10	34
No. 16	29
No. 40	23
No. 50	21
No. 100	19
No. 200	15

Liquid Limit 22
 Plastic Index 5
 Specific Gravity _____
 Resistance Value 66
 Cover Stabilometer _____
 Thickness 8.3 Expansion Pressure _____

Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-a

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-105-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12 MP 57 + 3000'
 Samplers: J. LARRACUENTE Station: 1500 feet past hole 2 Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. _____ Rt. 10'
 Sample No.: 3B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>11"</u> Remarks: <u>Base is 0' - 2' 1'-8" Base</u> <u>Subgrade is 2' - 5'</u>	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	97
1/2"	94
3/8"	85
No. 4	57
No. 10	38
No. 16	32
No. 40	25
No. 50	23
No. 100	20
No. 200	17

Liquid Limit	<u>22</u>	
Plastic Index	<u>6</u>	
Specific Gravity	_____	
Resistance Value	<u>72</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>6.2</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-106-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 4500' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft): _____ Lt. _____ Rt. 10'
 Sample No.: 4B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Subgrade	300
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) <u>9"</u>	8--		
Remarks: Base is 0' - 2' 2'-0" Base	10--		
Subgrade is 2' - 5'	12--		
	14--		
	16--		
Submitted By: <u>D. WHIE</u>	18--		
Title: <u>Engineering Technician V</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	88
3/8"	80
No. 4	55
No. 10	39
No. 16	34
No. 40	28
No. 50	26
No. 100	23
No. 200	20

Liquid Limit	<u>23</u>	
Plastic Index	<u>6</u>	
Specific Gravity	_____	
Resistance Value	<u>67</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>7.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-107-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 6000' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft): _____ Lt. _____ Rt. 10'
 Sample No.: 5B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Subgrade	300
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) <u>1'-1"</u>	8--		
Remarks: Base is 0' - 2' 2' Base	10--		
Subgrade is 2' - 5'	12--		
	14--		
	16--		
Submitted By: <u>D. WHIE</u>	18--		
Title: <u>Engineering Technician V</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	94
3/8"	89
No. 4	64
No. 10	46
No. 16	39
No. 40	29
No. 50	26
No. 100	21
No. 200	17

Liquid Limit 19
 Plastic Index NP
 Specific Gravity _____
 Resistance Value 78
 Cover Stabilometer _____ Expansion Pressure _____
 Thickness 4.1

Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-b

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-108-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 7500' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. _____ Rt. 10'
 Sample No.: 6B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>11"</u> Remarks: <u>Base is 0' - 2' 1'-10"</u> <u>Subgrade is 2' - 5'</u>	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
	20--		

Submitted By: D. WHIE
 Title: Engineering Technician V

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	98
1/2"	89
3/8"	79
No. 4	54
No. 10	37
No. 16	32
No. 40	27
No. 50	25
No. 100	22
No. 200	18

Liquid Limit	<u>21</u>	
Plastic Index	<u>4</u>	
Specific Gravity	_____	
Resistance Value	<u>71</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>6.5</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-110-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 10,500' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. _____ Rt. 10'
 Sample No.: 8B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Subgrade	300
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) <u>10"</u>	8--		
Remarks: Base is 0' - 2' 1-8" Base	10--		
Subgrade is 2' - 5'	12--		
	14--		
	16--		
Submitted By: <u>D. WHIE</u>	18--		
Title: <u>Engineering Technician V</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	97
3/8"	88
No. 4	66
No. 10	50
No. 16	45
No. 40	38
No. 50	36
No. 100	33
No. 200	27

Liquid Limit 21
 Plastic Index 5
 Specific Gravity _____
 Resistance Value 65
 Cover Stabilometer _____ Expansion Pressure _____
 Thickness 8.6

Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-111-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 12,000' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft): _____ Lt. _____ Rt. 10'
 Sample No.: 9B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>10"</u> Remarks: <u>Base is 0' - 2'</u> <u>1"-10" Base</u> <u>Subgrade is 2' - 5'</u>	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	98
1/2"	91
3/8"	86
No. 4	63
No. 10	46
No. 16	40
No. 40	34
No. 50	32
No. 100	29
No. 200	23

Liquid Limit	<u>21</u>	
Plastic Index	<u>5</u>	
Specific Gravity	_____	
Resistance Value	<u>58</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>11.0</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-112-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 13,500' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. _____ Rt. 10'
 Sample No.: 10B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-1"</u> Remarks: Base is 0' - 2' 1'-10" Base Subgrade is 2' - 5' Submitted By: <u>D. WHIE</u> Title: <u>Engineering Technician V</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Base Subgrade	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20-- 300

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	93
3/8"	84
No. 4	59
No. 10	44
No. 16	39
No. 40	33
No. 50	31
No. 100	28
No. 200	23

Liquid Limit 19
 Plastic Index 2
 Specific Gravity _____
 Resistance Value 66
 Cover Stabilometer _____
 Thickness 8.3 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-1-b

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-113-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 15,000' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. _____ Rt. 10'
 Sample No.: 11B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-0"</u> Remarks: Base is 0' - 2' _____ 2'-1" Base Subgrade is 2' - 5' _____	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	95
3/8"	82
No. 4	58
No. 10	43
No. 16	38
No. 40	31
No. 50	29
No. 100	26
No. 200	21

Liquid Limit	<u>19</u>	
Plastic Index	<u>2</u>	
Specific Gravity	_____	
Resistance Value	<u>70</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>6.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-114-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 16,500' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft): _____ Lt. _____ Rt. 10'
 Sample No.: 12B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>9"</u> Remarks: <u>Base is 0' - 2' 1'-8" Base</u> <u>Subgrade is 2' - 5'</u>	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	94
3/8"	87
No. 4	63
No. 10	45
No. 16	40
No. 40	33
No. 50	31
No. 100	27
No. 200	22

Liquid Limit	<u>19</u>	
Plastic Index	<u>3</u>	
Specific Gravity	_____	
Resistance Value	<u>61</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>10.0</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-115-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 18,000' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft): _____ Lt. _____ Rt. 10'
 Sample No.: 13B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-1"</u> Remarks: Base is 0' - 2' 2'-0" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	94
3/8"	84
No. 4	60
No. 10	45
No. 16	40
No. 40	34
No. 50	32
No. 100	29
No. 200	24

Liquid Limit	<u>18</u>	
Plastic Index	<u>2</u>	
Specific Gravity	_____	
Resistance Value	<u>66</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>8.3</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-116-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 19,500' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. _____ Rt. 10'
 Sample No.: 14B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-1"</u> Remarks: <u>Base is 0' - 2'</u> <u>1'-10" Base</u> <u>Subgrade is 2' - 5'</u>	0--		
	2--	Base	2
	4--	Subgrade	4-- 300
	6--		6--
	8--		8--
	10--		10--
	12--		12--
	14--		14--
	16--		16--
	18--		18--
Submitted By: <u>D. WHIE</u>	20--		20--
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	96
1/2"	88
3/8"	85
No. 4	65
No. 10	50
No. 16	46
No. 40	40
No. 50	38
No. 100	34
No. 200	27

Liquid Limit 19
 Plastic Index 3
 Specific Gravity _____
 Resistance Value 65
 Cover Stabilometer _____
 Thickness 8.6 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-117-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 20,250' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 15B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Subgrade	300
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) <u>1'-1"</u>	8--		
Remarks: Base is 0' - 2' 1'-8" Base	10--		
Subgrade is 2' - 5'	12--		
	14--		
	16--		
Submitted By: <u>D. WHIE</u>	18--		
Title: <u>Engineering Technician V</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	99
3/8"	97
No. 4	75
No. 10	58
No. 16	52
No. 40	46
No. 50	44
No. 100	41
No. 200	33

Liquid Limit 20
 Plastic Index 5
 Specific Gravity _____
 Resistance Value 66
 Cover Stabilometer Expansion Pressure
 Thickness 8.3 _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-118-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 18,750' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 16B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-3"</u> Remarks: Base is 0' - 2' 2'-4" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	92
3/8"	86
No. 4	65
No. 10	50
No. 16	45
No. 40	39
No. 50	38
No. 100	34
No. 200	28

Liquid Limit 19
 Plastic Index 3
 Specific Gravity _____
 Resistance Value 60
 Cover Stabilometer _____
 Thickness 10.3 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-119-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 17,250' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 17B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-2"</u> Remarks: Base is 0' - 2' 2'-2" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	94
3/8"	89
No. 4	65
No. 10	48
No. 16	42
No. 40	35
No. 50	33
No. 100	30
No. 200	25

Liquid Limit	<u>20</u>	
Plastic Index	<u>4</u>	
Specific Gravity	_____	
Resistance Value	<u>63</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>9.3</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-120-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 15,750' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft): Lt. 10' Rt. _____
 Sample No.: 18B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-0"</u> Remarks: Base is 0' - 2' 1'-8" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	96
1/2"	91
3/8"	84
No. 4	62
No. 10	47
No. 16	42
No. 40	36
No. 50	34
No. 100	31
No. 200	25

Liquid Limit	<u>19</u>	
Plastic Index	<u>3</u>	
Specific Gravity	_____	
Resistance Value	<u>60</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>10.3</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-121-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 14,250 Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 19B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-2"</u> Remarks: Base is 0' - 2' 2'-2" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	97
3/8"	91
No. 4	69
No. 10	51
No. 16	46
No. 40	39
No. 50	37
No. 100	34
No. 200	28

Liquid Limit 19
 Plastic Index 4
 Specific Gravity _____
 Resistance Value 59
 Cover Stabilometer _____
 Thickness 10.7 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-122-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 12,750' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 20B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-1"</u> Remarks: Base is 0' - 2' 1'-10" Base Subgrade is 2' - 5' Submitted By: <u>D. WHIE</u> Title: <u>Engineering Technician V</u>	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	98
3/8"	90
No. 4	68
No. 10	51
No. 16	45
No. 40	38
No. 50	37
No. 100	32
No. 200	28

Liquid Limit 26
 Plastic Index 10
 Specific Gravity _____
 Resistance Value 42
 Cover Stabilometer Expansion Pressure
 Thickness 16.5
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-123-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 11,250' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 21B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-0"</u> Remarks: Base is 0' - 2' 2'-1" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	98
3/8"	93
No. 4	76
No. 10	60
No. 16	54
No. 40	47
No. 50	45
No. 100	41
No. 200	33

Liquid Limit 22
 Plastic Index 7
 Specific Gravity _____
 Resistance Value 40
 Cover Stabilometer _____
 Thickness 17.2 Expansion Pressure _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-124-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 9,750' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 22B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Subgrade	300
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) <u>1'-1"</u>	8--		
Remarks: Base is 0' - 2' 1'-10" Base	10--		
Subgrade is 2' - 5'	12--		
	14--		
	16--		
Submitted By: <u>D. WHIE</u>	18--		
Title: <u>Engineering Technician V</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	97
3/8"	89
No. 4	71
No. 10	53
No. 16	46
No. 40	37
No. 50	35
No. 100	31
No. 200	26

Liquid Limit 25
 Plastic Index 9
 Specific Gravity _____
 Resistance Value 45
 Cover Stabilometer _____
 Thickness 15.5 Expansion Pressure _____

Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-125-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 8,250' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 23B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-0"</u> Remarks: Base is 0' - 2' 1'-5" Base Subgrade is 2' - 5' Submitted By: <u>D. WHIE</u> Title: <u>Engineering Technician V</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Base Subgrade	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20-- 300

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	92
3/8"	83
No. 4	61
No. 10	45
No. 16	40
No. 40	33
No. 50	31
No. 100	28
No. 200	22

Liquid Limit	<u>20</u>	
Plastic Index	<u>4</u>	
Specific Gravity	_____	
Resistance Value	<u>62</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>9.6</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-126-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 6,750' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 24B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>0'-11"</u> Remarks: Base is 0' - 2' 1'-6" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	99
1/2"	94
3/8"	85
No. 4	62
No. 10	45
No. 16	39
No. 40	31
No. 50	29
No. 100	26
No. 200	21

Liquid Limit	<u>21</u>	
Plastic Index	<u>5</u>	
Specific Gravity	_____	
Resistance Value	<u>65</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>8.6</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-1-b</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-127-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 5,250' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 25B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-2"</u> Remarks: Base is 0' - 2' 1'-9" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	100
3/4"	98
1/2"	94
3/8"	89
No. 4	66
No. 10	50
No. 16	45
No. 40	39
No. 50	38
No. 100	35
No. 200	30

Liquid Limit	<u>28</u>	
Plastic Index	<u>11</u>	
Specific Gravity	_____	
Resistance Value	<u>39</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>17.5</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-6(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-128-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 3,750' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 26B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Subgrade	300
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) <u>1'-3"</u>	8--		
Remarks: Base is 0' - 2' 2'-0" Base	10--		
Subgrade is 2' - 5'	12--		
	14--		
	16--		
Submitted By: <u>D. WHIE</u>	18--		
Title: <u>Engineering Technician V</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	94
3/8"	87
No. 4	64
No. 10	45
No. 16	38
No. 40	29
No. 50	27
No. 100	23
No. 200	19

Liquid Limit 23
 Plastic Index 7
 Specific Gravity _____
 Resistance Value 63
 Cover Stabilometer Expansion Pressure
 Thickness 9.3 _____
 Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-129-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 2,250' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 27B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) <u>1'-1"</u> Remarks: Base is 0' - 2' 2'-0" Base Subgrade is 2' - 5'	0--		
	2--	Base	
	4--	Subgrade	300
	6--		
	8--		
	10--		
	12--		
	14--		
	16--		
	18--		
Submitted By: <u>D. WHIE</u>	20--		
Title: <u>Engineering Technician V</u>			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	94
3/8"	89
No. 4	63
No. 10	44
No. 16	38
No. 40	29
No. 50	27
No. 100	24
No. 200	20

Liquid Limit	<u>25</u>	
Plastic Index	<u>8</u>	
Specific Gravity	_____	
Resistance Value	<u>64</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>8.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-4(0)</u>	

Remarks: _____

LINE SAMPLING DATA

Date Reported: 4/26/12
 Lab No.: S12-03, RV-130-12
 E.A.: 73644 Job Description: US 93 MP CL57 THROUGH CL 61
 Date Rec'd: 3/22/12
 Samplers: J. LARRACUENTE Station: MP 57 + 750' Route: US 93
M. PYPKOWSKI, S. BEUS, D. WHITE Location from CL (ft) Lt. 10' Rt. _____
 Sample No.: 28B County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	
Cut Section <input type="checkbox"/> Fill Section <input checked="" type="checkbox"/>	4--	Subgrade	300
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		
Gravel Depth (in) _____ Oil Depth (in) <u>1'-0"</u>	8--		
Remarks: Base is 0' - 2' 1'-9" Base	10--		
Subgrade is 2' - 5'	12--		
	14--		
	16--		
Submitted By: <u>D. WHIE</u>	18--		
Title: <u>Engineering Technician V</u>	20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	93
3/8"	85
No. 4	56
No. 10	39
No. 16	33
No. 40	27
No. 50	25
No. 100	22
No. 200	18

Liquid Limit 23
 Plastic Index 8
 Specific Gravity _____
 Resistance Value 66
 Cover Stabilometer _____
 Thickness 8.3 Expansion Pressure _____

Sand Equivalent _____
 Natural Moisture, % _____
 Resistivity _____
 pH Factor _____
 AASHTO Classification A-2-4(0)

Remarks: _____

