#### STATE OF NEVADA

#### **DEPARTMENT OF TRANSPORTATION**

#### **MATERIALS DIVISION**

#### **GEOTECHNICAL SECTION**

#### LINE SAMPLING DATA

US95A, Lyon County, from Junction with US 50 in Silver Springs to 0.015 Miles South of Royal Oaks Dr.

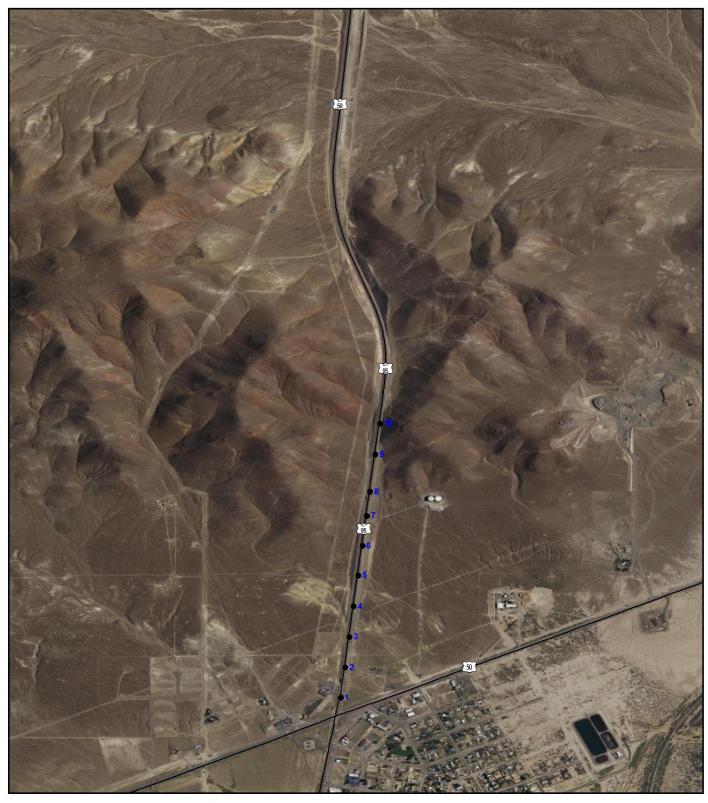
Cum. Mile LY 44.254 to LY 55.438

LYON COUNTY, NEVADA

EA 73639

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.



7

Drill Holes

#### US-95A, Lyon County 0.00 to 1.00 EA 73639 Geotechnical Investigation

0 660 1,320 1,980 2,640 Feet

1:12,000

THIS MAP IS FOR DISPLAY PURPOSES ONLY.

MAP COMPILED FROM BEST AVAILABLE DATA SOURCES. DATA PROVIDED BY "GEOTECHNICAL SECTION(028)" NOT ALL FEATURES PORTRAYED DUE TO SCALE.

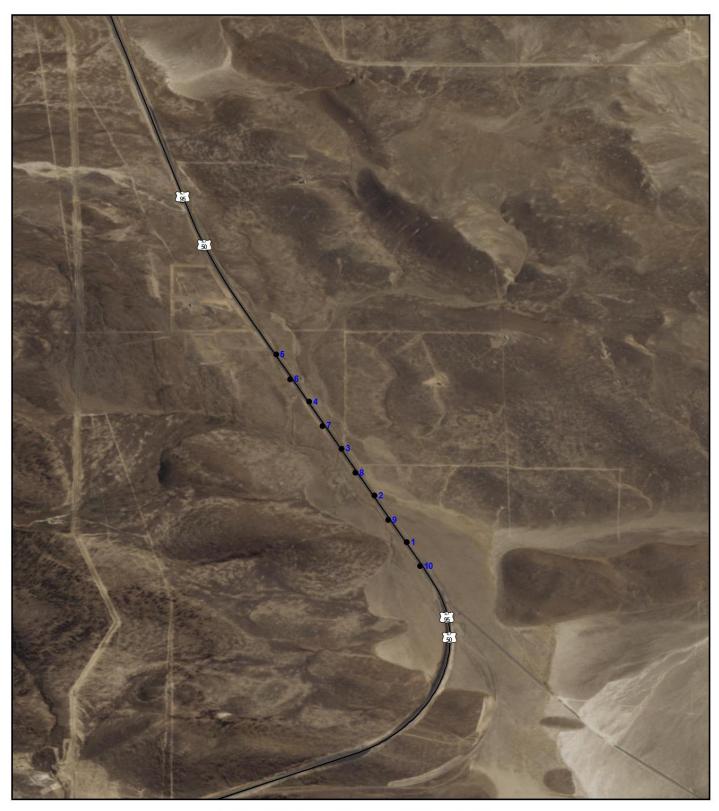


Brian Sandoval Governor



Rudy Malfabon, P.E. Director

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



**Drill Holes** 

# US-95A, Lyon County 5.00 to 6.00 EA 73639 **Geotechnical Investigation**

660 1,320 1,980 2,640 **□**Feet

1:12,000

THIS MAP IS FOR DISPLAY PURPOSES ONLY.

MAP COMPILED FROM BEST AVAILABLE DATA SOURCES. DATA PROVIDED BY "GEOTECHNICAL SECTION(028)" NOT ALL FEATURES PORTRAYED DUE TO SCALE.







Rudy Malfabon, P.E. Director

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

Date Reported: Lab No.: E.A.: Date Rec'd	9/21/11 S11-05B, 1 73537 7/28/11	RV-408-11	Job D	escription:	US50A/95	5A FROM	LY0.00 TO 1	L <b>Y1.00</b>		
Samplers:		McFARREN		Station	"P" 403+	00		Route	US 50A/9	5A
ALTAMIRANO			•	Location fro		Lt.			t. 18'	
Sample No.:	1			County:	LYON	-				
Sample Type:			=		Depth (ft)	Bor	ring Description			PSI
RV	Sub 🗆	Chem	DC 🗆	Other -	0				0	
Vegetation:	None	Trees	Shrubs		2		Silt, Sand,	Gravel	2	100
	Brushy 🗆	Grassy 🗆			_ 4[				4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoul	der 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)		-	10				10	
Remarks:					_ 12				12	
					_ 14				14	
					_ 16				16	
Submitted By:	O. ALTAI				- 18				18	
Title:	Engineeri	ng Technician	III		_ 20				20	
	Sieve Size	% Passing	ı		Liquid Lim	it _	23			
	3"				Plastic Inde	ex	5			
	2"		i		Specific Gr	avity				
	1.5"		,		Resistance	Value	58			
	1"	100			Cover		Stabilometer		Expansion P	ressure
	3/4"	97	,		Thick	cness _	11.0			
	1/2"	88								
	3/8"	82	,		3	Sand Equiv	alent .			
	No. 4	71	•		1	Natural Mo	isture, %			
	No. 10	58			]	Resistivity				
	No. 16	51			1	pH Factor				
	No. 40	41				AASHTO (	Classification	A-1-b		
	No. 50	37								
	No. 100	29								
	No. 200	21								
Remarks:										
Ciliaiks:		1/6-2	_						122	
					18000		3			
			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7							

Date Reported: Lab No.:	9/21/11 S11-05B,	RV-409-11								
E.A.:	73537		Job D	escription:	US50A/95	A FROM	LY0.00 TO	LY1.00		
Date Rec'd	7/28/11									
Samplers:	BAKER,	McFARREN		Station	"P" 403+0	0		Route	US 50A/9	5A
ALTAMIRANO				Location fro	om CL (ft)	Lt.		R	t. 18'	
Sample No.:	1A			County:	LYON					
Sample Type:					Depth (ft)	Во	ring Description			PSI
RV	Sub 🗆		DC 🗆	Other -	0				0	
Vegetation:		Trees	Shrubs		2				2	
	Brushy 🗆	Grassy			4		Silt, Sand,	Gravel	4	100
Cut Section		Fill Section			6				6	
Taken Through Oi		Taken on Shoul	der 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:		-			12				12	
					_ 14				14	
			197		16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size	% Passing			Liquid Limit	t	22			
	3"				Plastic Index		5	•		
	2"				Specific Gra	vity				
	1.5"				Resistance V	'alue	47	•		
	1"				Cover		Stabilometer	•	Expansion P	ressure
	3/4"	100			Thicks	ness	14.8	_		
	1/2"	98								
	3/8"	91			S	and Equiv	alent			
	No. 4	82			N	atural Mo	isture, %			
	No. 10	72			R	esistivity				
	No. 16	67			p.	H Factor				
	No. 40	57			A	ASHTO	Classification	A-2-4(0)	)	
	No. 50	52								
	No. 100	43	,							
	No. 200	30								
Davis										
Remarks:							_			
				7931						
	F3X 2.258									
				M-						

Date Reported: Lab No.: E.A.:	9/21/11 S11-05B, 2	RV-410-11	Ioh D	Description:	- TIS50A/9	54 FROM	[ LY0.00 TO ]	(V1 00		
Date Rec'd	7/28/11	•	300 D	escription.	OBSURIA	JA PROM	L L 10.00 10 1	311.00		
Samplers:		McFARREN		Station	"P" 408+	-00		Route	US 50A/9	5A
ALTAMIRANO			-	Location fro	m CL (ft)	Lt.			t. 21'	
Sample No.:	2	w		County:	LYON					
Sample Type:					Depth (ft)	Boi	ring Description			PSI
RV 🗖	Sub 🗆		DC 🗆	Other	- 1				0	
Vegetation:	None =	Trees	Shrubs $\square$		2		Silt, Sand,	Gravel	2	100
	Brushy U	Grassy 🗆			- 4				4	
Cut Section		Fill Section			6				6	
Taken Through Oi		Taken on Shoul	der <b>=</b>		8				8	
Gravel Depth (in)		Oil Depth (in)		-	10				10	
Remarks:					- 12				12	
					- 14				14	
Cubmitted Day	O. ALTA	MIDANO			- 16				16	
Submitted By: Title:		ng Technician	TIT		_ 18				18	
Title.	Engineeri	ng rechnician	111		_ 20				20	
				-						
	Sieve Size	% Passing	_		Liquid Lim	nit	25			
	3"				Plastic Inde	ex	3			
	2"				Specific G	ravity				
	1.5"	100	•		Resistance	Value	80			
	1"	98			Cover		Stabilometer		Expansion F	ressure
	3/4"	93			Thic	kness	3.4			
	1/2"	74							-	
	3/8"	62				Sand Equiv	alent			
	No. 4	44				Natural Mo	isture, %			
	No. 10	32				Resistivity				
	No. 16	27	•			pH Factor				
	No. 40	19				AASHTO (	Classification	A-1-a		
	No. 50	16								
	No. 100	12								
	No. 200	8								
D										
Remarks:							19,			-
			144							-
	72									
-3,211,2							****	_		

Date Reported: Lab No.:	9/21/11 S11-05B, I	RV-411-11					_			
E.A.:	73537		Job D	escription:	US50A/9	5A FRO	M LY0.00 TO	L <b>Y1.00</b>		
Date Rec'd	7/28/11									
Samplers:	BAKER,	McFARREN		Station	"P" 408+	-00		Route	US 50A/9	5A
ALTAMIRANO	)			Location from	m CL (ft)	Lt.		Rt.	21'	
Sample No.:	2A			County:	LYON					
Sample Type:					Depth (ft)	В	oring Description			PSI
RV ■	Sub □	Chem 🗆	DC 🗆	Other $\square$	0				0	
Vegetation:	None	Trees	Shrubs $\square$		2				2	
	Brushy 🗆	Grassy			_ 4		Silt, Sand,	Gravel	4	100
Cut Section		Fill Section			6		100011		6	
Taken Through Oi	1 🗆	Taken on Shoul	der 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:		ept caving in the		nad to	12				12	
be drilled in order	to obtain an a	dequate amount	of soil.		- 14				14	
					- 16				16	
Submitted By:	O. ALTAI				- 18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size  3"  2"  1.5"  1"  3/4"	% Passing 100 96 91 91 79	•		Liquid Lim Plastic Inde Specific Gi Resistance Cover Thic	ex ravity	27 5 81 Stabilometer 3.1		Expansion P	ressure
	1/2"	65								
	3/8"	55				Sand Equi				
	No. 4	39				Natural M				
	No. 10	27				Resistivity				
	No. 16	23	•			pH Factor				
	No. 40	15	•			AASHTO	Classification	A-1-a		
	No. 50	13								
	No. 100	10	•							
	No. 200	7	•							
Remarks:		-0								
		=97			719/1					
	200 80		No.				10.11	_		

Date Reported:	9/21/11									
Lab No.:	S11-05B, I	RV-412-11								
E.A.:	73537		Job D	Description:	US50A/95	SA FROM	LY0.00 TO I	LY1.00		
Date Rec'd	7/28/11							-		
Samplers:	BAKER, I	McFARREN		Station	"P" 413+	00		Route	US 50A/9	5A
ALTAMIRANO	)			Location fro	m CL (ft)	Lt.		Rt	t. 19'	
Sample No.:	3			County:	LYON					
Sample Type:					Depth (ft)	Boi	ing Description			PSI
RV ■	Sub 🗆	Chem 🗆	DC 🗆	Other $\square$	0				0	
Vegetation:	None	Trees □ S	nrubs 🗆		2		Silt, Sand,	Gravel	2	100
	Brushy 🗆	Grassy			_ 4		···		4	
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🗆	Taken on Shoulde	r 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)		-	10				10	
Remarks:					12				12	
					14				14	
		=			16				16	
Submitted By:	O. ALTAI	MIRANO			18				18	
Title:	Engineeri	ng Technician I	I		20				20	
										•
	Sieve Size	% Passing			Liquid Lim	it .	23			
	3"				Plastic Inde	ex .	3			
	2"	100			Specific Gr	avity				
	1.5"	96			Resistance	Value .	76			
	1"	95			Cover		Stabilometer		Expansion F	ressure
	3/4"	84			Thick	kness	4.8			_
	1/2"	71								
	3/8"	65				Sand Equiv	alent			
	No. 4	51			•	Natural Mo	isture, %			
	No. 10	39				Resistivity				
	No. 16	34				pH Factor				
	No. 40	26				AASHTO (	Classification	A-1-a		
	No. 50	22								
	No. 100	16								
	No. 200	12								
Remarks:		to the second		gn				10.0		
							_			
		_								

Date Reported: Lab No.:		RV-413-11			_					
E.A.:	73537		Job De	escription:	US50A/9	5A FROM	( LY0.00 TO I	LY1.00		
Date Rec'd	7/28/11									
Samplers:		McFARREN		Station	"P" 413-				US 50A/9	5A
ALTAMIRANO				Location fro		Lt.		Rt	19'	
Sample No.:	3A	10.5		County:	LYON				_	
Sample Type:	0.L D	Ci —	D.C. [	0.1	Depth (ft)	Bo	ring Description			PSI
RV -	Sub 🗆		DC 🗆	Other -	_				0	
Vegetation:			Shrubs 🗆		2		011. 0 1.0	1 0 111	2	100
Cut Section	Brushy 🗆	Pill 0			_ 4		Silt, Sand, Grav	el, Cobbles		100
Taken Through Oil		Taken on Should			6 8				6	
Gravel Depth (in)		Oil Depth (in)	ei <b>–</b>						8	
Remarks:		ept caving in there	for 2 holes h	and to bo	10 12				10	
drilled in order to g					- 12 14				12	
boulders from 3½'-		ite amount of samp	ore, coobles	01	- 14 16				14	
Submitted By:	O. ALTAI	MIRANO			- 18				16 18	
Title:	-	ng Technician I	11	·	- 18 20				20	
Title.	Digineeri	ing Teenmenan I				1			20	
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		***		
	Sieve Size	% Passing			Liquid Lir	nit	25			
	3"	100			Plastic Ind		4			
	2"	92			Specific G	•				
	1.5"	88			Resistance		79			
	1"	76			Cover		Stabilometer		Expansion F	ressure
	3/4"	61			Thic	ckness	3.8		1	
	1/2"	43								
	3/8"	32				Sand Equiv	alent			
	No. 4	20				Natural Mo				
	No. 10	15				Resistivity				
	No. 16	13				pH Factor	•			
	No. 40	10				AASHTO	Classification	A-1-a		
	No. 50	9					•			
	No. 100	7								
	No. 200	5								
Remarks:										
		98								
										(0. 1
F15-00		12.00		-						

Date Reported:	9/21/11									
Lab No.:	S11-05B, I	RV-414-11			_					
E.A.:	73537		Job D	escription:	US50A/9	5A FROM	1 LY0.00 TO 1	LY1.00		
Date Rec'd	7/28/11									
Samplers:	BAKER,	McFARREN		Station	"P" 418+	-00		Route	US 50A/9	5A
<b>ALTAMIRANO</b>	)			Location fro	m CL (ft)	Lt.		Rt	. 19'	_
Sample No.:	4			County:	LYON					
Sample Type:					Depth (ft)	Во	ring Description			PSI
RV =	Sub 🗆		DC 🗆	Other -	0				0	
Vegetation:	None	Trees	Shrubs		2		Silt, Sand,	Gravel	2	100
	Brushy 🗆	Grassy			_ 4			775	4	
Cut Section □		Fill Section			6				6	
Taken Through Oi		Taken on Shoul	der 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					_ 14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			_ 18				18	
Title:	Engineeri	ng Technician	III		20				20	
Remarks:	3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40 No. 50 No. 100 No. 200	100 97 82 72 58 45 39 30 27 21 16				ravity Value kness Sand Equiv Natural Mo Resistivity pH Factor		A-1-b	Expansion F	Pressure
					- <u>-</u>					
			***		- 1					
		11.11.11								
	2007									

			1311 11	J DI KIVI	LIII	DIXII				
Date Reported:	9/21/11	_								
Lab No.:		RV-415-11		2.22.20	_					
E.A.:	73537		Job De	scription:	US50A/9	5A FRON	1 LY0.00 TO	LY1.00		
Date Rec'd	7/28/11									
Samplers:		McFARREN	1	Station	"P" 418+	<del>-00</del>		Route	US 50A/9	)5A
ALTAMIRANO			1	Location fro		Lt.		Rt	19'	
Sample No.:	4A			County:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PS1
RV	Sub 🗆	Chem □	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees □ S	hrubs 🗆		2				2	
	Brushy 🗆	Grassy			_ 4		Silt, Sand,	Gravel	4	100
Cut Section		Fill Section			6	15			6	
Taken Through Oi		Taken on Shoulde	er 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	Drill hole k	ept caving in there	for 2 holes h	ad to be	_ 12				12	
drilled in order to o	btain an ade	quate amount of so	oil.		14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician I	II		20				20	
		3.52								
	Sieve Size	% Passing			Liquid Lin	nit	24	,		
	3"				Plastic Ind	ex	3			
	2"				Specific G	ravity				
	1.5"	100			Resistance	Value	<u>76</u>	,		
	1"	98			Cover		Stabilometer		Expansion F	ressure
	3/4"	94			Thic	kness	4.8			
	1/2"	83								
	3/8"	74				Sand Equiv	valent	_		
	No. 4	54				Natural Mo	oisture, %			
	No. 10	42				Resistivity		-		
	No. 16	37				pH Factor				
	No. 40	28				AASHTO	Classification	A-1-a		
	No. 50	25						-		
	No. 100	20								
	No. 200	15								
Remarks:										
				- 4184	UE-					

			DITTE DIXIT	LING D	IIA			
Date Reported:	9/21/11	•						
Lab No.:		RV-416-11		_				
E.A.:	73537		Job Description:	US50A/95A I	FROM LY0.00 TO LY	71.00		
Date Rec'd	7/28/11							
Samplers:	BAKER,	McFARREN	Station	"P" 423+00		Route	US 50A/9	<u>5</u> A
ALTAMIRANO			Location fro	om CL (ft)	Lt	Rt.	19'	
Sample No.:	5		County:	LYON				
Sample Type:				Depth (ft)	Boring Description			PSI
RV <b>=</b>	Sub 🗆	Chem □	DC Other	0			0	
Vegetation:	None	Trees   Shi	ubs 🗆	2	Silt, Sand, Gr	ravel	2	100
	Brushy 🗆	Grassy		4			4	
Cut Section		Fill Section		6			6	
Taken Through Oi	l 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:	Drill hole k	ept caving in therefo	r 2 holes had to	_ 12			12	
be drilled in order	to get an ade	quate amount of soil	·	14			14	
				_ 16			16	
Submitted By:	O. ALTA	MIRANO		18			18	
Title:	Engineeri	ng Technician III		20			20	
	3" 2" 1.5"	% Passing  100  98  98		Liquid Limit Plastic Index Specific Gravity Resistance Valu Cover			Expansion P	ressure
	3/4"	94		Thicknes	s <u>7.2</u>			
	1/2"	85						
	3/8"	80		Sano	l Equivalent			
	No. 4	63		Natu	ıral Moisture, %			
	No. 10	49		Resi	stivity			
	No. 16	42		pH F	Factor			
	No. 40	32		AAS	SHTO Classification	A-1-b		
	No. 50	29						
	No. 100	23						
	No. 200	18						
Remarks:								
			**************************************					

Date Reported: Lab No.:		RV-417-11		-					
E.A.:	73537		Job Description:	US50A/95	SA FROM LYO	.00 TO LY	<u>Y1.00</u>		
Date Rec'd Samplers:	7/28/11 PAKED	McFARREN	Station	"ID!! 422 H	00		D .	TIC COA IO	
ALTAMIRANO		VICTARREN	Station  Location fro	"P" 423+(	Lt.		Route Rt.	US 50A/9	JA.
Sample No.:	5A	102	County:	LYON	Lt		Kt.		
Sample Type:	-	101		Depth (ft)	Boring Des	cription	F318		PSI
RV ■	Sub □	Chem □	DC Other		Dornig Doo	oription .		0	101
Vegetation:	None		ubs 🗆	2				2	
	Brushy 🗆	Grassy		4	Sil	t, Sand, Lt (	Gravel	4	100
Cut Section		Fill Section		6				6	
Taken Through Oil		Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:				12				12	
				14				14	
				16				16	
Submitted By:	O. ALTA	MIRANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	Sieve Size	% Passing		Liquid Limi	it	22			
	3"	and a supplied		Plastic Inde		2			
	2"			Specific Gra					
	1.5"	100		Resistance \	-	78			
	1"	97		Cover		lometer		Expansion F	reccure
	3/4"	96		Thick		<b>1.1</b>		Expansion 1	ressure
	1/2"	94							
	3/8"	90		S	Sand Equivalent				
	No. 4	78			Natural Moisture,	%			
	No. 10	61			Resistivity				
	No. 16	54			H Factor				
	No. 40	41		_	AASHTO Classif	ication —	A-1-b		
	No. 50	36							
	No. 100	27							
	No. 200	20							
Remarks:									
	20		-0						
	- 3								
	<u> </u>					_		_	

Date Reported:	9/21/11	-								
Lab No.:		RV-418-11			_					
E.A.:	73537	-	Job D	escription:	US50A/95	A FROM	LY0.00 TO 1	L <b>Y1.00</b>		
Date Rec'd	7/28/11	-								
Samplers:	BAKER,	McFARREN		Station	<u>"P" 428+0</u>	00		Rout	e <u>US 50A/9</u>	5A
ALTAMIRANO				Location fro	om CL (ft)	Lt.		R	kt. <b>20'</b>	
Sample No.:	6			County:	LYON					
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV =	Sub 🗆	Chem □	DC 🗆	Other -	0				0	
Vegetation:	None 🗏	Trees 🗆 S	Shrubs 🗆		2		Silt, Sand,	Gravel	2	100
	Brushy 🗆	Grassy			_ 4		3		4	
Cut Section		Fill Section	l		6				6	
Taken Through Oi	1 🗆	Taken on Should	er 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
				-	14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO	,		18				18	
Title:	Engineeri	ng Technician I	II		20				20	
									•	
	Sieve Size	% Passing			Liquid Limi	t	26			
	3"				Plastic Inde	_	6			
	2"				Specific Gra	-				
	1.5"	100			Resistance \	_	74			
	1"	98			Cover	_	Stabilometer		Expansion P	raccura
	3/4"	88			Thick	ness	5.5		Expansion i	ressure
	1/2"	78			Timek	_				
	3/8"	71			9	Sand Equiva	lent			
	No. 4	56				Vatural Moi	_			
	No. 10	44				Resistivity	sture, 76			
	No. 16	39				H Factor	-			
	No. 40	29			•		Classification	A-1-a		
	No. 50	26			,	ASIIIO (	- assincation	A-1-a		
	No. 100	20								
	No. 200	15								
	140. 200	15								
Remarks:										
		2 m = 2		187						
	07.500	0)								

Date Reported: Lab No.: E.A.:	9/21/11 S11-05B, 73537	RV-419-11	Iob De	escription:	- - - US504/9	54 FRON	1 LY0.00 TO	LV1 00		
Date Rec'd	7/28/11		300 D	escription.	OBSURIA	<u>SA FRON</u>	110.00 10	L11.00		
Samplers:		McFARREN		Station	"P" 428+	-00		Route	US 50A/9	5A
ALTAMIRANO				Location fro				'	t. 20'	
Sample No.:	6A			County:	LYON					
Sample Type:				- 12	Depth (ft)	Во	oring Description			PSI
RV	Sub 🗆	Chem 🗆	DC 🗆	Other 🗆	0			1,003	0	
Vegetation:	None	Trees   Shi	rubs 🗆		2				2	
	Brushy	Grassy			_ 4		Silt, Sand,	Gravel	4	100
Cut Section		Fill Section			6			- 63	6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
		<u> </u>			14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician III	[		_ 20				20	
	Sieve Size	% Passing			Liquid Lin	nit	23			
	3"				Plastic Inde	ex	2			
	2"	100			Specific G	ravity				
	1.5"	97			Resistance	Value	74			
	1"	97			Cover		Stabilometer		Expansion P	ressure
	3/4"	97			Thic	kness	5.5			
	1/2"	80								
	3/8"	71				Sand Equiv	alent			
	No. 4	51				Natural Mo	oisture, %			
	No. 10	37				Resistivity				
	No. 16	32				pH Factor	·			
	No. 40	25				AASHTO	Classification	A-1-a		
	No. 50	22					•			
	No. 100	17								
	No. 200	13								
Remarks:										
remarks.										
					_					
		-								

Date Reported:	9/21/11	<u>-</u>								
Lab No.:		RV-420-11			_					
E.A.:	73537	-	Job D	escription:	<u>US50A/95</u>	SA FROM	LY0.00 TO	LY1.00		
Date Rec'd	7/28/11	-								
Samplers:	-	McFARREN	-	Station	"P" 433+	00	<u> </u>	Route	US 50A/9	5A
ALTAMIRANO			7.	Location fro		Lt.		R	t. <u>19'</u>	
Sample No.:	7			County:	LYON					
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV RV	Sub 🗆		DC 🗆	Other C	0				0	
Vegetation:		Trees	Shrubs		2		Silt, Sand,	, Gravel	2	100
	Brushy	Grassy 🗆			_ 4				4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoul	der		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
	-10				14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
						Z				
		I								
	Sieve Size	% Passing			Liquid Lim	it _	26	_		
	3"				Plastic Inde	х _	5	_		
	2"				Specific Gra	avity _		_		
	1.5"				Resistance	Value _	70	_		
	1"	100			Cover		Stabilometer		Expansion P	ressure
	3/4"	97	•		Thick	mess _	6.9	_		
	1/2"	86								
	3/8"	79			5	Sand Equiva	alent			
	No. 4	62			ì	Vatural Moi	sture, %			
	No. 10	47			I	Resistivity				
	No. 16	40			Ţ	H Factor				
	No. 40	28			1	AASHTO (	Classification	A-2-4(0)	)	
	No. 50	25								
	No. 100	19								
	No. 200	15								
			-							
Remarks:										
			- 0.5							

				L DI NIVA.		DAIA				
Date Reported:	9/21/11	_								
Lab No.:	S11-05B,	RV-421-11			_					
E.A.:	73537	_	Job D	escription:	US50A/95	A FROM	LY0.00 TO	L <b>Y1.00</b>		
Date Rec'd	7/28/11	_						_		
Samplers:		McFARREN		Station	"P" 433+0	0		Route	US 50A/9	)5A
<b>ALTAMIRAN</b>	)			Location fro	om CL (ft)	Lt.		R	t. 19'	
Sample No.:	7A			County:	LYON			S.		
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV <b>=</b>	Sub □	☐ Chem ☐	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees □ Sl	rubs 🗆		2				2	
	Brushy 🗆	Grassy □			_ 4		Silt, Sand,	Gravel	4	100
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
			_		14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ing Technician II	I		20				20	
		1 00								
	Sieve Size	% Passing			Liquid Limit	: _	23			
	3"				Plastic Index	_	3			
	2"				Specific Gra	vity _				
	1.5"	100			Resistance V	'alue _	78			
	1"	97			Cover		Stabilometer		Expansion F	ressure
	3/4"	97			Thickr	ness _	4.1			
	1/2"	93								
	3/8"	83			Sa	and Equiva	alent			
	No. 4	67			N	atural Moi	sture, %			
	No. 10	50			R	esistivity				
	No. 16	44			pl	H Factor				
	No. 40	34			A	ASHTO (	Classification	A-1-b		
	No. 50	30								
	No. 100	24								
	No. 200	19								
Remarks:		281 2								
									- 2	

			ETIVE STAIRT	LINGDAI	. <b>A</b>			
Date Reported:	9/21/11	-						
Lab No.:	S11-05B,	RV-422-11		_				
E.A.:	73537	-	Job Description:	US50A/95A FRO	OM LY0.00 TO L	Y1.00		
Date Rec'd	7/28/11							
Samplers:	BAKER,	McFARREN	Station	"P" 438+00		Route	e US 50A/9	5A
<b>ALTAMIRAN</b>	)		Location fro	om CL (ft) L	t.	R	.t. 19'	
Sample No.:	8	200	County:	LYON				
Sample Type:			8	Depth (ft)	Boring Description			PSI
RV ■	Sub 🗆	l Chem 🗆	DC □ Other □	0			0	
Vegetation:	None	Trees   Shru	ibs 🗆	2	Silt, Sand, O	Gravel	2	100
	Brushy 🗆	Grassy 🗆		4			4	
Cut Section		Fill Section		6			6	
Taken Through Oi	1 🗆	Taken on Shoulder		8			8	
Gravel Depth (in)		Oil Depth (in)		10			10	
Remarks:				12			12	
				14			14	
				16			16	
Submitted By:	O. ALTA	MIRANO		18			18	
Title:	Engineeri	ng Technician III	·	20			20	
							7.0	
		l est						
	Sieve Size	% Passing		Liquid Limit	20			
	3"			Plastic Index	2			
	2"			Specific Gravity				
	1.5"			Resistance Value	75			
	1"			Cover	Stabilometer		Expansion P	ressure
	3/4"	100		Thickness	5.2			
	1/2"	89						
	3/8"	83		Sand Eq	uivalent _			
	No. 4	67		Natural I	Moisture, %	<del></del>		
	No. 10	52		Resistivi	ty			
	No. 16	46		pH Facto	or			
	No. 40	35		AASHT	O Classification	A-1-b	-	
	No. 50	32			_			
	No. 100	25						
	No. 200	20						
Remarks:								
					7			

Date Reported: Lab No.:		RV-423-11	Lib Daniel Co	TICED A JOE	'A EDOM	I VO 00 TO 1	W4 00		
E.A.: Date Rec'd	73537 7/28/11		Job Description:	US30A/93	A FROM	LY0.00 TO 1	_X1.00		
Samplers:		McFARREN	Station	"P" 438+0	00	<del>_</del>	Pouto	US 50A/9	15 A
ALTAMIRANO		WICHARDEN	Location from		Lt.		Route		<u>JA</u>
Sample No.:	8A		County:	LYON	ъ		23		
Sample Type:				Depth (ft)	Bori	ng Description			PSI
RV =	Sub □	Chem □ I	OC Other			- B - vov. pilon		0	
Vegetation:	None	Trees   Shrub	os 🗆	2				2	
	Brushy 🗆	Grassy		4	_	Silt, Sand,	Gravel	4	100
Cut Section	<del>-</del>	Fill Section		6				6	
Taken Through Oil	l 🗆	Taken on Shoulder		8				8	
Gravel Depth (in)		Oil Depth (in)		10				10	
Remarks:				12				12	
				14				14	
				16				16	
Submitted By:	O. ALTA	MIRANO		18				18	
Title:	Engineeri	ng Technician III		20				20	
	3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40 No. 50 No. 100 No. 200	100 90 80 62 54 40 29 25 20 18		1 F F	avity avity Value mess Sand Equiva Natural Mois Resistivity DH Factor		A-1-a	Expansion F	Pressure
Remarks:									, 104
					4.57				
		- W. G							
							22		1900

Date Reported: Lab No.:		- RV-424-11			-					
E.A.:	73537	-	Job D	escription:	US50A/95	SA FROM	LY0.00 TO	LY1.00		
Date Rec'd Samplers:	7/28/11 PAKED	McFARREN		Chanki a sa	!ID!! 442 i	00			**************************************	
ALTAMIRANO		WICFARREN	-	Station Location fro	"P" 443+			•	US 50A/9	5A
Sample No.:	9	_		County:	LYON	Lt		- R	.t. <u>18'</u>	
Sample Type:				county.	Depth (ft)	Rorin	g Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other $\square$		Dom	ig Description		0	F31
Vegetation:	None	Trees	Shrubs		2		Silt, Sand,	Gravel	2	100
	Brushy 🗆	Grassy			4				4	100
Cut Section		Fill Section			6				6	
Taken Through Oi	l 🗆	Taken on Shoul	lder <b>=</b>		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician	Ш		20				20	
	G: G:	l								
	Sieve Size	% Passing			Liquid Lim	_	25			
	3"		-		Plastic Inde	_	6			
	2"	100	-		Specific Gr					
	1.5"	100			Resistance	_	60			
	1"	99	-		Cover		Stabilometer		Expansion P	ressure
	3/4"	97			Thick	mess	10.3			
	1/2"	97								
	3/8"	84				Sand Equival				
	No. 4	65				Natural Mois	ture, %			
	No. 10	50				Resistivity				
	No. 16	43			•	oH Factor				
	No. 40	33			1	AASHTO CI	assification	A-1-b		
	No. 50	29								
	No. 100	23 18								
	No. 200	10	,							
Remarks:										
								-		
	2 10024									
			100							
									-	- (4)

				. XIVII	LLITTO					
Date Reported:	9/21/11	-								
Lab No.:	S11-05B,	RV-425-11			_					
E.A.:	73537	_	Job Descript	tion:	US50A/95	A FROM	LY0.00 TO	LY1.00		
Date Rec'd	7/28/11	_								
Samplers:	BAKER,	McFARREN	Statio	n	"P" 443+0	00		Route	US 50A/9	5A
<b>ALTAMIRANO</b>	)		Locat	ion fro	m CL (ft)	Lt.	***	- Rt		
Sample No.:	9A		Coun	ty:	LYON	•		_		
Sample Type:					Depth (ft)	Boi	ring Description			PSI
RV 🗖	Sub □	Chem □	DC 🗆 O	ther $\square$	0				0	
Vegetation:	None	Trees  Shr	ubs 🗆		2				2	
	Brushy 🗆	Grassy $\square$			4		Silt, Sand	Gravel	4	100
Cut Section		Fill Section			6	- 25			6	
Taken Through Oi		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:			<del></del>		12				12	
					14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician III			20				20	
					<u>.</u>					
	Sieve Size	% Passing			Liquid Limit	t	29			
	3"				Plastic Index	ζ.	9	•		
	2"				Specific Gra	vity		-		
	1.5"	100			Resistance V	-	58	-		
	1"	95			Cover	-	Stabilometer	-	Expansion P	ressure
	3/4"	83			Thick	ness	11.0			
	1/2"	73				-		-		
	3/8"	64			S	and Equiva	alent			
	No. 4	48				latural Moi				
	No. 10	36				esistivity	, <sub>6</sub> ,			
	No. 16	31				H Factor				
	No. 40	24					Classification	A-2-4(0)		
	No. 50	22						12 2 .(0)		
	No. 100	18								
	No. 200	15								
Remarks:										
			2511							
			- H							
, see 1824, see 2011								2		

Date Reported:	9/21/11	_								
Lab No.:	S11-05B,	RV-426-11								
E.A.:	73537		Job Descrip	tion:	US50A/95	5A FROM	LY0.00 TO 1	L <b>Y1.00</b>		
Date Rec'd	7/28/11	_								
Samplers:	BAKER,	McFARREN	Static	on	"P" 448+	00		Route	US 50A/9	5A
ALTAMIRANO	)		Locat	tion fron	n CL (ft)	Lt.			t. <b>20</b> '	
Sample No.:	10		Coun	ty:	LYON				-772-	
Sample Type:					Depth (ft)	Вогі	ng Description			PSI
RV ■	Sub 🗆	Chem 🗆	DC □ O	ther 🗆	0				0	
Vegetation:	None	Trees   Shr	ubs 🗆		2		Silt, Sand,	Gravel	2	100
	Brushy 🗆	Grassy 🗆			4				4	
Cut Section		Fill Section			6				6	
Taken Through Oi		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician III			20				20	
	3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40 No. 50 No. 100 No. 200	100 97 92 84 79 58 43 37 26 22 17 13			] ] 1	ex avity Value kness Sand Equiva Natural Mois Resistivity pH Factor	-	A-1-a	Expansion P	ressure
Remarks:										
					_					

				O/ LIVE	LING	DAIA				
Date Reported:	9/21/11	_								
Lab No.:	S11-05B,	RV-427-11			_					
E.A.:	73537	-	Job Desc	ription:	US50A/95	A FROM	1 LY0.00 TO	LY1.00		
Date Rec'd	7/28/11	_								
Samplers:	BAKER,	McFARREN	St	ation	"P" 448+	00		Route	US 50A/9	5A
ALTAMIRANO	)		Lo	cation fro	m CL (ft)	Lt.		Ri	t. <b>20</b> ¹	
Sample No.:	10A		Co	ounty:	LYON			· 		
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV 🔳	Sub □	Chem 🗆	DC □	Other 🗆	0				0	
Vegetation:	None	Trees □ Shr	rubs 🗆		2				2	
	Brushy 🗆	Grassy 🗆			_ 4		Silt, Sand,	Gravel	4	100
Cut Section		Fill Section			6		-		б	
Taken Through Oi	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
					14				14	
		-			16				16	
Submitted By:	O. ALTA	MIRANO	-		18				18	
Title:	Engineeri	ng Technician III			20				20	
		•								
	Sieve Size	% Passing			Liquid Limi	it	27			
	3"				Plastic Inde	x	NP			
	2"				Specific Gra	avity				
	1.5"				Resistance '	Value	79			
	1"				Cover		Stabilometer		Expansion F	ressure
	3/4"	100			Thick	mess	3.8			
	1/2"	95								
	3/8"	93			S	Sand Equiv	alent /			
	No. 4	81			1	Natural Mo	isture, %			
	No. 10	61			F	Resistivity		_		
	No. 16	51			F	H Factor				
	No. 40	37				AASHTO	Classification	A-1-b		
	No. 50	33								
	No. 100	25								
	No. 200	19								
Remarks:										

Data Damente 1	0/21/11						•			
Date Reported:	9/21/11	DX7 202 11								
Lab No.:		RV-393-11			- -	E EDO				
E.A.:	73537	-	Job De	escription:	US 50A/9	5A FROI	M LY 5.00 TO	5.00		
Date Rec'd	7/27/11				1170 H. C					
Samplers:		McFARREN		Station	"P" 655+				US 50A/9	5A
ALTAMIRANO				Location fro	, ,	Lt.		Rt.	22'	
Sample No.:	1			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	Вс	oring Description			PSI
RV 🔳	Sub 🗆		DC 🗆	Other 🗆	-				0	
Vegetation:	None		ubs 🗆		2		Silt, Sand, Very	Lt Gravel	2	
	Brushy 🗆	Grassy			- 4		Lt Cla	У	4	100
Cut Section		Fill Section			6				6	
Taken Through Oi	l 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician III			_ 20				20	
	3" 2" 1.5" 1" 3/4"	100			Plastic Inde Specific Gi Resistance Cover	avity	6 41 Stabilometer 16.9		Expansion P	ressure
	1/2"	94								
	3/8"	90				Sand Equiv	_			
	No. 4	83				Natural Mo	oisture, %			
	No. 10	75				Resistivity	_			
	No. 16	71				pH Factor	-			
	No. 40	61				AASHTO	Classification _	A-2-4(0)		
	No. 50	55								
	No. 100	42								
	No. 200	31								
Remarks:										
<u> </u>										

Date Reported: Lab No.:		RV-394-11			-					
E.A.:	73537		Job I	Description:	US 50A/9	5A FROM	LY 5.00 TO	5.00		_
Date Rec'd Samplers:	7/27/11 BAKED 1	McFARREN		Station	"P" 665+	-00		D 4 -	TIC FOA (O	<u> </u>
ALTAMIRANO		VICEARREN		Location fro		Lt.		Route Rt.	US 50A/9	5A
Sample No.:	2			County:	LYON	- E	<u></u>	Kt.		
Sample Type:					Depth (ft)	Borin	g Description			PSI
RV■	Sub □	Chem □	DC □	Other $\Box$					0	
Vegetation:	None =	Trees  Sł	rubs 🗆	-	2		Silt, Sand, C	Gravel	2	
	Brushy 🗆	Grassy □			4		Clay		4	100
Cut Section		Fill Section			6				6	
Taken Through Oil	🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:				_	12				12	
					14				14	
					16				16	
Submitted By:	O. ALTAI	MIRANO	33		18				18	
Title:	Engineeri	ng Technician II	I		_ 20				20	
	-	22 400								
	Sieve Size	% Passing			Liquid Lin	nit <u> </u>	30			
	3"				Plastic Inde	ex _	10			
	2"				Specific G	ravity _				
	1.5"				Resistance	Value _	38			
	1"				Cover		Stabilometer		Expansion P	ressure
	3/4"	100			Thic	kness _	17.9			
	1/2"	96								
	3/8"	91				Sand Equival	ent _			
	No. 4	82				Natural Mois	ture, %			
	No. 10	70				Resistivity	_			
	No. 16	64				pH Factor	_			
	No. 40	53				AASHTO C	lassification	A-2-4(0)		
	No. 50	47								
	No. 100	35								
	No. 200	28								
Remarks:	-									
		10-								
								285		
			-			239	0.330	211		

Date Reported: Lab No.:		RV-395-11	<del></del>							
E.A.:	73537		Job D	Description:	US 50A/9	95A FRON	M LY 5.00 TO	6.00		
Date Rec'd Samplers:	7/27/11 BAKER	McFARREN		Station	"P" 675-	+00		Pouts	US 50A/9	5 A
ALTAMIRANO	·	WICHARREN		Location fro				•	t. 21'	JA
Sample No.:	3			County:	LYON	Di.		- 10		
Sample Type:				•	Depth (ft)	Во	ring Description			PSI
RV ■	Sub □	Chem □	DC 🗆	Other $\Box$					0	
Vegetation:	None	Trees □ S	Shrubs 🗆		2		Silt, Sand, I	Lt Gravel	2	
	Brushy 🗆	Grassy □			4		Lt Cl	ay	4	100
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Should	er 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:		_		-	12				12	
		100			- 14				14	
			200		16				16	
Submitted By:	O. ALTA	MIRANO			- 18				18	
Title:	Engineeri	ng Technician I	II		20				20	
	Gi Gi	0/ D			100 DE1 1 E	9.	26			
	Sieve Size	% Passing			Liquid Lin		26			
	3"				Plastic Ind		9	-		
	2"				Specific G	-		-		
	1.5"	100			Resistance	Value	51			
	1"	99			Cover		Stabilometer		Expansion P	ressure
	3/4"	99			Thic	kness	13.5			
	1/2"	91								
	3/8"	87				Sand Equiv				
	No. 4	78				Natural Mo	isture, %			
	No. 10	66				Resistivity				
	No. 16	61				pH Factor				
	No. 40	50				AASHTO	Classification	A-2-4(0)	)	
	No. 50	45								
	No. 100	35								
	No. 200	27								
Remarks:										
Nomarks.		- 57,24			is white	17790				
			-			· · ·				
3.30										
		-			===					

Date Reported: Lab No.:	9/21/11 S11-05A, 1	RV-396-11			_					
E.A.:	73537		Job De	escription:	US 50A/9	5A FROM	M LY 5.00 TO	6.00		
Date Rec'd	7/27/11								-	
Samplers:		McFARREN		Station	"P" 685+	<del>-00</del>		-	US 50A/9	<u>5</u> A
ALTAMIRANO				Location fro		Lt.		. Rt.	20'	
Sample No.:	4			County:	LYON					
Sample Type:					Depth (ft)	Вс	ring Description			PSI
RV RV	Sub 🗆		DC 🗆	Other -	0				0	
Vegetation:			rubs 🗆		2		Silt, Sand,		2	100
	Brushy	Grassy 🗆			_ 4		silt, sand,grav		4	300
Cut Section		Fill Section			6	_	Silt, Sand,	Gravel	6-	100
Taken Through Oi		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:	Cobbles are	present from 2'-31/2'	; 300 psi w	/as	12				12	
	applied.				14				14	
**				10	16				16	
Submitted By:	O. ALTAI	MIRANO			18				18	
Title:	Engineeri	ng Technician III	[		20				20	
	Sieve Size  3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40 No. 50 No. 100 No. 200	100 98 89 83 78 63 49 43 33 29 23 18			Liquid Lin Plastic Ind Specific G Resistance Cover Thic	ex ravity Value kness Sand Equiv Natural Mo Resistivity pH Factor		A-1-b	Expansion I	Pressure
Remarks:										

Date Reported: Lab No.: E.A.:	9/21/11 S11-05A, 73537	- RV-397-11 -	Job Desc	ription:	US 50A/9	95A FROI	M LY 5.00 TO	6.00		
Date Rec'd	7/27/11	-								
Samplers:		McFARREN		ation	"P" 695+	**		-	US 50A/9	<u>5</u> A
ALTAMIRANO				cation from		Lt.		- R	t. <b>20'</b>	
Sample No.:	5		Со	unty:	LYON					
Sample Type:			<b>.</b>		Depth (ft)	Вс	oring Description			PSI
RV ■	Sub =		DC 🗆	Other	. 0				0	
Vegetation:	None		rubs 🗆		2		Silt, Sand	•	2	
Cost Costinu	Brushy 🗆	Grassy 🗆			. 4	3,4,4	Very Very	Lt Gravel	4	100
Cut Section  Talan Through Oil		Fill Section	_		6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in) Remarks:		Oil Depth (in)			10				10	
Remarks.			<del></del>		. 12				12	
					. 14				14	
Submitted By:	O ALTA	MIRANO			. 16 18				16	
Title:		ng Technician III			20				18	
Title.	Difficer	ing recimician iii			. 201				20	
<u> </u>										
	Sieve Size	% Passing			Liquid Lim	nit	36			
	3"				Plastic Inde		16	-		
	2"				Specific Gr			•		
	1.5"				Resistance	_	35	•		
	1"	100			Cover		Stabilometer		Expansion F	ressure
	3/4"	98			Thic	kness	19.0		•	
	1/2"	96						•		
	3/8"	94				Sand Equiv	/alent			
	No. 4	87				Natural Mo	oisture, %		· · · · ·	
	No. 10	79				Resistivity				
	No. 16	74				pH Factor				
	No. 40	66				AASHTO	Classification	A-6(3)		
	No. 50	62								
	No. 100	54								
	No. 200	44								
Remarks:										
	. 44								7710100	
				15						
						1				

Date Reported:	9/21/11									
Lab No.:		RV-398-11								
E.A.:	73537	-	Job E	Description:	US 50A/9	5A FRON	1 LY 5.00 TO	0 6.00		
Date Rec'd	7/27/11						-	_		
Samplers:		McFARREN		Station	"P" 690+			_	US 50A/9	95A
ALTAMIRANO				Location fro		Lt.	20'	R	t	
Sample No.:	6			County:	LYON					
Sample Type:	_	_	_		Depth (ft)	Во	ring Description			PSI
RV	Sub □		DC 🗆	Other [	0				0	
Vegetation:	None	Trees	Shrubs $\square$		2		Silt, S	and	2	
	Brushy 🗆	Grassy			_ 4		Grav	/el	4	100
Cut Section					6				6	
Taken Through Oi	1 🗆	Taken on Shoul	der 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					_ 14				14	
					_ 16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
	Sieve Size  3"  2"  1.5"	% Passing			Liquid Lim Plastic Indo Specific Gr Resistance	ex ravity	34 12 35	-		
	1"	97			Cover		Stabilometer	_	Expansion P	ressure
	3/4"	97			Thic	kness	19.0	_		
	1/2"	83						-		
	3/8"	78				Sand Equiv	alent			
	No. 4	65				Natural Mo	isture, %			
	No. 10	55				Resistivity				
	No. 16	51				pH Factor				
	No. 40	43				AASHTO (	Classification	A-2-6(0)	)	
	No. 50	39								
	No. 100	33								
	No. 200	26								
Remarks:										
	55 - 055-									
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
			5	7		-	<u> </u>			

				O DI LIVE	LIII	DIXII	•			
Date Reported:	9/21/11	_								
Lab No.:	S11-05A,	RV-399-11			_					
E.A.:	73537	-	Job Do	escription:	US 50A/9	5A FRON	1 LY 5.00 TO	6.00		
Date Rec'd	7/27/11	_								
Samplers:	BAKER,	McFARREN		Station	"P" 680+	00		Route	US 50A/9	5A
ALTAMIRANO	)			Location fro	om CL (ft)	Lt.	21'	Rı		
Sample No.:	7			County:	LYON					
Sample Type					Depth (ft)	Во	ring Description			PSI
RV ■	Sub □	Chem □	DC □	Other 🗆	0				0	122
Vegetation:	None	Trees   Shri	ubs 🗆		2		Silt, Sa	nd,	2	
	Brushy 🗆	Grassy □			4		Grav	el	4	100
Cut Section		Fill Section			6	-	·		6	
Taken Through Oi	I 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineeri	ing Technician III			20				20	
15										
	Sieve Size	% Passing			Liquid Lim	:4	22			
	3"	70 Fassing					3			
	2"				Plastic Inde		3			
	1.5"				Specific Gr Resistance		72			
	1"	100			Cover	value .	73			
	3/4"	92			Thick		Stabilometer		Expansion F	ressure
	1/2"	84			Inter	cness .	5.9			
	3/8"	75				Cond Conin	-1			
	No. 4	58				Sand Equiv				
	No. 10	45				Natural Mo Resistivity	isture, %			
	No. 16	39				pH Factor				
	No. 40	28					Classification	A 1 a		
	No. 50	24			•	AASHIO	Classification	A-1-a		
	No. 100	18								
	No. 200	13								
	140. 200	13								
Remarks:										
	700			- 15						
		···							- A	
								-		
11 12										

Date Reported:	9/21/11									
Lab No.:	S11-05A,	RV-400-11			_					
E.A.:	73537		Job D	escription:	US 50A/9	95A FROI	M LY 5.00 TO	0 6.00		
Date Rec'd	7/27/11									
Samplers:	BAKER,	McFARREN		Station	"P" 670-	<b>⊦00</b>	·	Route	US 50A/9	95A
ALTAMIRANO	)			Location fro	om CL (ft)	Lt.	20'	– Rt		
Sample No.:	8			County:	LYON					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV 🗖	Sub □		DC 🗆	Other [	0				0	
Vegetation:	None	Trees	Shrubs 🗆		2		Silt, Sand, Gra	avel, Lt Clay	2	
	Brushy 🗆	Grassy			_ 4				4-	100
Cut Section		Fill Section			6		silt, sand grav	vel, cobbles	6	300
Taken Through Oi	1 🗆	Taken on Should	ler 🔳		8				8	
Gravel Depth (in)		Oil Depth (in)		-	10				10	
Remarks:	Cobbles are	present from 4' t	o 5' 300 psi v	was	12				12	
	applied.				14				14	
					16	}			16	
Submitted By:	O. ALTAI	MIRANO			18				18	
Title:	Engineeri	ng Technician	III		20				20	
-						N N				
	Sieve Size	% Passing			Liquid Lin	nit	26	_		
	3"				Plastic Ind	ex	99	_		
	2"				Specific G	ravity				
	1.5"	100			Resistance	Value	34	_		
	1"	94			Cover		Stabilometer		Expansion F	ressure
	3/4"	94			Thic	kness	19.3	_		
	1/2"	92						_	-	
	3/8"	89				Sand Equiv	alent			
	No. 4	77				Natural Mo	oisture, %			
	No. 10	68				Resistivity				
	No. 16	64				pH Factor				
	No. 40	54				AASHTO	Classification	A-2-4(0)		
	No. 50	49								
	No. 100	39								
	No. 200	30								
Remarks:										
						32-				
							3			
							-			

			AJII V.	L DIXIVE	LING		•			
Date Reported:	9/21/11	_								
Lab No.:	<u>S11-05A,</u>	RV-401-11			_					
E.A.:	73537	_	Job D	escription:	US 50A/9	5A FRON	1 LY 5.00 TC	6.00		
Date Rec'd	7/27/11	_								
Samplers:	BAKER,	McFARREN		Station	"P" 660+	00		Route	US 50A/9	<u>5</u> A
<b>ALTAMIRANO</b>	)	- C		Location fro	om CL (ft)	Lt.	20'	Rt.		
Sample No.:	9			County:	LYON					
Sample Type:					Depth (ft)	Во	ring Description			PSI
RV =	Sub 🗆	☐ Chem ☐	DC 🗆	Other 🗆	0				0	
Vegetation:	None		ubs 🗆		2		Silt, Sand	Gravel	2	
	Brushy 🗆	Grassy			_ 4				4	100
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)		_	10				10	
Remarks:					12				12	
					_ 14				14	
					16				16	
Submitted By:	O. ALTA	MIRANO			18				18	
Title:	Engineer	ing Technician III			_ 20				20	
								-		
	Sieve Size	% Passing			Liquid Limi	it	24			
	3"				Plastic Inde		3	-		
	2"				Specific Gra			-		
	1.5"	100			Resistance '		68	-		
	1"	93			Cover		Stabilometer	-	Expansion P	ressure
	3/4"	91			Thick	mess	7.6		Expansion 1	ressure
	1/2"	86					7.0	•		
	3/8"	78			9	Sand Equiv	alent			
	No. 4	62				Vatural Mo				
	No10	49				Resistivity	, , ,			
	No. 16	44				H Factor				
	No. 40	34			-		Classification	A-1-b		
	No. 50	31								
	No. 100	22								
	No. 200	16								
		<u> </u>								
Remarks:										
		100000								
<del></del>						-	12			

Date Reported:	9/21/11	- DX7 400 44					-			
Lab No.:		RV-402-11				E LEDON	* * * * * * * * * * * * * * * * * * *			
E.A.:	73537	-	Job De	scription:	US 50A/9	5A FROM	M LY 5.00 TO	) 6.00		
Date Rec'd	7/27/11 DAI/ED	- M EADDEN	,		HDH (#0)				770 70 10	
Samplers:		McFARREN		Station	"P" 650+				US 50A/9	5A
ALTAMIRANO	10			Location fro	, ,	Lt.	20'	- Rt	·	
Sample No.:	10		(	County:	LYON		The state of the s			
Sample Type:	0.1		D0 [	0.1	Depth (ft)	Bo	oring Description			PSI
RV -	Sub -		DC 🗆	Other -	-				0	
Vegetation:	None		ubs 🗆		2		silt, sand, vry		1	
0.00.00	Brushy $\Box$	Grassy 🗆	<del>.</del>		- 4		very lt	clay	4	100
Cut Section   The Theorem		Fill Section	_		6				6	
Taken Through Oi	🗆	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)			10				10	
Remarks:					- 12				12	
					- 14				14	
0.1.1.1.1.0	O 41 TP 4	BATTO A BIO	<u> </u>		- 16				16	
Submitted By:		MIRANO			- 18				18	
Title:	Engineeri	ng Technician III			_ 20				20	
	Sieve Size	% Passing			Liquid Lim	nit	27			
	3"				Plastic Inde		8	-		
	2"				Specific Gr			-		
	1.5"				Resistance	-	33	-		
	1"	100			Cover		Stabilometer	-	Expansion P	ressure
	3/4"	95				kness	19.7			
	1/2"	91						-		_
	3/8"	90				Sand Equiv	/alent			
	No. 4	84				Natural Mo				
	No. 10	77				Resistivity	,			
	No. 16	72				pH Factor				
	No. 40	62				•	Classification	A-2-4(0)		
	No. 50	56						-1-2-1(0)		
	No. 100	44								
	No. 200	33								
Remarks:										
								7		_
							The same of the sa			