STATE OF NEVADA DEPARTMENT OF TRANSPORTATION MATERIALS DIVISION GEOTECHNICAL SECTION

LINE SAMPLING DATA SR 207, KINGSBURY GRADE, PAVEMENT RECONSTRUCTION FROM US 50 TO 3.866 MILES EAST (MP DO 0.00 to 3.866) DOUGLAS COUNTY, NEVADA

August 2013 EA 73643

Prepared by:	
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	Principal Geotechnical Engineer
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	Chief Geotechnical Engineer

Line sampling data for the subgrade soils along the alignment of SR 207, Kingsbury Grade, from US 50 to 3.866 miles east (MP DO 0.00 to 3.866) was requested by the NDOT Materials Roadbed Design section for use in the design of the pavement structural section. Line sampling was performed by the NDOT Materials Field Crew staff in September and October of 2011 to collect bulk samples of the roadway subgrade at the approximate locations indicated on the individual data sheets. Borings drilled for sampling were typically 5 feet deep. Station and offset locations reported on the individual data sheets were estimated using plan view alignment and mapping information provided by NDOT Roadway Design and physical measurements taken in the field. Locations should be considered accurate only to the degree implied by the method used.

This report presents laboratory test results performed on the subgrade soils consisting of gradation, liquid limit, plasticity index, and R-value. Tests were performed in accordance with Nevada standard test procedures. AASHTO soil classification is presented on individual data sheets based on the laboratory test results.

Date Reported: Lab No.:		_ RV-495-11			_					
E.A.:	73643	_	Job I	Description:	KINGSBURY	Y GRA	DE SR 207 N	1P: 0.00 T	O 3.76	
Date Rec'd	10/04/11 DAIXED	- DICCDY		a	UXVDU 22 . 25	,		D .	CD 207	
Samplers:	BAKER,			Station	"WR" 22+25		CI		SR 207	
ALTAMIRANO Sample No.:	51A	<u>. </u>		Location fro County:	DOUGLAS	Lt	C.L.	Rt.	<u>C.L.</u>	
Sample Type:	01 11			county.	Depth (ft)	San	nple Location			PSI
RV ■	Sub [☐ Chem ☐	DC 🗆	Other \square		Sur	ipre Boundin		0	100
Vegetation:	None		rubs \square		2				2	
	Brushy				4		Auger Cu	ttings	4	
Cut Section		Fill Section			6			<u> </u>	6	
Taken Through Oi	I =	Taken on Shoulder			8				8	
Gravel Depth (in)	0	Oil Depth (in)	4''		10				10	
Remarks:	No base, 4			_	12				12	
		•			14				14	
					16				16	
Submitted By:					18				18	
Title:					20				20	
	Sieve Size	% Passing			Liquid Limit	_	19			
	3"				Plastic Index	_	NP			
	2"				Specific Gravit					
	1.5"				Resistance Valu	ue _	74			
	1"				Cover		Stabilometer		Expansion Page 1	ressure
	3/4"				Thicknes	s	4.3			
	1/2"									
	3/8"	100				d Equiva	-			
	No. 4	99				ıral Moi	sture, %			
	No. 10	93				stivity	_			
	No. 16	84			_	Factor	_			
	No. 40	49			AAS	SHTO C	Classification _	A-1-b		
	No. 50	37								
	No. 100	21								
	No. 200	12								
Remarks:										

Date Reported: Lab No.:	10/14/11 S11-06, R	_ RV-473-11			_				
E.A.:	73643	_	Job D	Description:	KINGSBURY	GRADE SR 207 I	MP: 0.00 T	O 3.76	
Date Rec'd	9/15/11	_							
Samplers:	BAKER,		<u>-</u>	Station	"WR" 25+00		•	SR 207	
ALTAMIRANO		•		Location fro		Lt	Rt.		
Sample No.:	50			County:	DOUGLAS				
Sample Type:	G 1 F		DC \square	04 -	Depth (ft)	Sample Location		0.	PSI
RV Vecatations	Sub [DC □	Other				0	
Vegetation:	None Remake:		Shrubs		2	Augus Co		2	
Cut Section	Brushy	Fill Section	_		- 4 6	Auger C	uttings	6	
Taken Through Oi	ı ■	Taken on Shoul	der =		8			8	
Gravel Depth (in)	-	Oil Depth (in)			10			10	
Remarks:	Hole in cer	_on Deput (iii) iter turn lane.	13 1/2	_	12			12	
Kemarks.	Hole III cel	iter turn rane.			14			14	
					16			16	
Submitted By:	BOB WI	MER			18			18	
Title:		ing Technician	TTT		20			20	
	Sieve Size	% Passing			Liquid Limit	21 ND			
	3"		-		Plastic Index	NP	-		
	2"	1	-		Specific Gravity	7.4	-		
	1.5"				Resistance Value	74 Stabilometer		Zwananaian Du	
	3/4"	100	<u>-</u>		Cover Thickness	4.3	1	Expansion Pr	essure
	1/2"	94	=		Tilless		=		
	3/8"	93	•		Sand F	Equivalent			
	No. 4	86	-			l Moisture, %			
	No. 10	74	•		Resisti				
	No. 16	66	•		pH Fac	•			
	No. 40	45	•		•	TO Classification	A-1-b		
	No. 50	37	•						
	No. 100	23	•						
	No. 200	14	•						
			•						
Remarks:									

Date Reported:	10/14/11	<u>-</u>								
Lab No.:	S11-06, R	V-472-11			_	.	DE CD 405			
E.A.:	73643	_	Job De	escription:	KINGSBURY	Y GRA	DE SR 207	MP: 0.00 T	<u>:O 3.76</u>	
Date Rec'd	9/15/11 PARED	- DICCDY		a	HITTIDH 20 . 00	0			CD 205	
Samplers:	BAKER,	_		Station	"WR" 30+00			Route	SR 207	
ALTAMIRANO Sample No.:	<u>, wimek</u> 49			Location fro County:	DOUGLAS	Lt.		Rt.	2'	
	77			County.		Con	la I a aatian			DCI
Sample Type: RV ■	Sub □	l Chem □	DC 🗆	Other	Depth (ft)	Sa	mple Location		0	PSI
Vegetation:	None ■		rubs \square	Other L	2				2	
vegetation.	Brushy \square		iuos 🗀		4		Auger C	uttings	4	
Cut Section	Drusny —	Fill Section			6		Tuger C	dungs	6	
Taken Through Oil	1 ■	Taken on Shoulder			8				8	
Gravel Depth (in)	10"	Oil Depth (in)	4''		10				10	
Remarks:		urn lane to Kahle par		ogline.	12				12	
		F		- 6	14				14	
					- 16				16	
Submitted By:	BOB WIN	MER			18				18	
Title:	1	ng Technician III			20				20	
	Sieve Size 3" 2" 1.5"	% Passing			Liquid Limit Plastic Index Specific Gravit Resistance Valu	_	23 NP 72	- - -		
	1"				Cover	S	Stabilometer		Expansion Pa	ressure
	3/4"				Thicknes	ss	4.9	_		
	1/2"	100								
	3/8"	99				d Equiv		(<u> </u>		
	No. 4	96				ural Mo	isture, %			
	No. 10	82				sistivity				
	No. 16	69			-	Factor				
	No. 40	43			AAS	SHTO (Classification	<u>A-1-b</u>		
	No. 50	35								
	No. 100	23								
	No. 200	15								
Remarks:										

Date Reported:	10/14/11	_								
Lab No.:	S11-06, R	2V-487-11			_					
E.A.:	73643	_	Job I	Description:	KINGSBUI	RY GR	ADE SR 207	MP: 0.00	TO 3.76	
Date Rec'd	10/04/11	_								
Samplers:	BAKER,	RIGSBY		Station	"WR" 33+7	75		Route	SR 207	
ALTAMIRANO		_		Location fro		Lt.	C.L.	R	. C.L.	
Sample No.:	3A			County:	DOUGLAS	5				
Sample Type:					Depth (ft)	S	ample Location			PSI
RV ■	Sub 🗆	☐ Chem ☐	DC 🗆	Other	0				0	100
Vegetation:	None		rubs 🗆		2				2	
	Brushy	Grassy			_ 4		Auger C	uttings	4	
Cut Section		Fill Section □			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)	0	Oil Depth (in)	11"	_	10				10	
Remarks:	No base				12				12	
					14				14	
					16				16	
Submitted By:					18				18	
Title:					20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 50 No. 100 No. 200	99 90 79 45 36 22 14			Na Re pF	alue ess and Equivatural Moesistivity I Factor	72 Stabilometer 4.9 valent bisture, % Classification		Expansion Pr	ressure
Remarks:										

Date Reported: Lab No.:		_ XV-488-11			_			
E.A.:	73643	_	Job I	Description:	KINGSBURY	GRADE SR 207 N	MP: 0.00 TO 3.76	<u> </u>
Date Rec'd	10/04/11 DATED	- DICCDY		a	UXVDU 20 . 25		D CD 20	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Samplers:	BAKER,	_		Station	"WR" 38+35		Route SR 20	
ALTAMIRANO Sample No.:	<u>4A</u>			Location fro County:	DOUGLAS	Lt	Rt. <u>16</u>	<u>. </u>
Sample Type:	7/1			County.	Depth (ft)	Sample Location		PSI
RV ■	Sub 🗆	☐ Chem ☐	DC 🗆	Other		Sample Location		0 100
Vegetation:	None		rubs \square	other =	2			2
	Brushy				4	Auger Cu	ıttings	4
Cut Section		Fill Section			6	8		6
Taken Through Oil	l =	Taken on Shoulder			8			8
Gravel Depth (in)	0	Oil Depth (in)	12''		10			10
Remarks:	No base	<u> </u>		_	12			12
					14			14
					16			16
Submitted By:					18			18
Title:					20		2	20
	Sieve Size	% Passing			Liquid Limit	21		
	3"				Plastic Index	NP		
	2"				Specific Gravity	<i></i>		
	1.5"				Resistance Valu	ie 74		
	1"				Cover	Stabilometer	Expansi	on Pressure
	3/4"				Thickness	4.3		
	1/2"	100						
	3/8"	99				Equivalent		
	No. 4	96			Natu	ral Moisture, %		
	No. 10	84				stivity		
	No. 16	74			_	actor		
	No. 40	48			AAS	HTO Classification	A-1-b	
	No. 50	40						
	No. 100	23						
	No. 200	13						
Remarks:								

Date Reported: Lab No.:	10/14/11 S11-06, R	- V-471-11			_			
E.A.:	73643	_	Job D	Description:	KINGSBUR	Y GRADE SR 207	MP: 0.00 TO 3.76	
Date Rec'd	9/15/11	_						
Samplers:	BAKER,	RIGSBY		Station	"WR" 40+50)	Route SR 207	
ALTAMIRANO	, WIMER			Location fro		Lt	Rt. 11'	_
Sample No.:	48			County:	DOUGLAS			
Sample Type:					Depth (ft)	Sample Location		PSI
RV ■	Sub □	l Chem □	DC 🗆	Other	0		0	-
Vegetation:	None	Trees □ Shr	rubs 🗆		2		2	=
	Brushy □	Grassy □			4	Auger C	Cuttings 4-	-
Cut Section		Fill Section			6		6	-
Taken Through Oil		Taken on Shoulder			8		8	-
Gravel Depth (in)		Oil Depth (in)	12''	_	10		10	-
Remarks:	Same as # 4	17.			12		12	-
					14		14	-
					16		16	-
Submitted By:	BOB WIN	MER			18		18	-
Title:	Engineeri	ng Technician III			20		20	-
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8"	100 99 97				Stabilometer ss 5.4 d Equivalent	Expansion	Pressure
	No. 4	94				ural Moisture, %		_
	No. 10	84				istivity		_
	No. 16	75			-	Factor	A 1.1	_
	No. 40	50			AAS	SHTO Classification	A-1-b	_
	No. 50	42						
	No. 100	28						
	No. 200	19						
Remarks:								

Date Reported:	10/14/11						
Lab No.:	S11-06, R	V-432-11	T.I.D		CDADE CD 205	MD. 0.00 TO 2.57	
E.A.:	73643	-	Job Description	n: KINGSBURY	GRADE SR 207	MP: 0.00 TO 3.76	
Date Rec'd	9/15/11 BAKER, 1	DICCDV	Station	"WR" 42+50		Route SR 207	_
Samplers: ALTAMIRANO		KIGSD I	Station	-	Lt.	Route SR 207 Rt. 19'	_
Sample No.:	5 5		County:	DOUGLAS	Li	_ Kt. <u>19</u>	
Sample Type:			County.	Depth (ft)	Sample Location	PSI	_
RV ■	Sub □	Chem □	DC □ Othe		Sample Location	0	_
Vegetation:			rubs 🗆	2		2	
	Brushy			4	Auger C		
Cut Section		Fill Section		6	8	6	
Taken Through Oil		Taken on Shoulder		8		8	
Gravel Depth (in)	8''	Oil Depth (in)	7''	10		10	
Remarks:	Oil is 7" thi	ck, Base consists of	Grindings and	12		12	
	Sand.	,		14		14	
				16		16	
Submitted By:	BOB WIN	MER		18		18	
Title:	Engineeri	ng Technician III		20		20	
	3" 2" 1.5" 1" 3/4"	% Passing		Liquid Limit Plastic Index Specific Gravity Resistance Value Cover Thickness	NP 70 Stabilometer 5.4	Expansion Pressure	e
	1/2"	99					
	3/8"	99			Equivalent		
	No. 4	97			ll Moisture, %		
	No. 10	90		Resisti	•		
	No. 16	82		pH Fac		A 4 (0)	
	No. 40	55		AASH	TO Classification	A-2-4(0)	
	No. 50	46					
	No. 100	30					
	No. 200	20					
Remarks:							_

Date Reported: Lab No.:	10/14/11 S11-06, R	V-470-11								
E.A.:	73643		Job Desc	cription:	KINGSBUI	RY GR	ADE SR 207	MP: 0.00 T	O 3.76	
Date Rec'd	9/15/11	•		1						
Samplers:	BAKER,	RIGSBY	St	ation	"WR" 44+7	75		Route	SR 207	
ALTAMIRANO			Lo	ocation from	m CL (ft)	Lt.		- Rt.	8'	
Sample No.:	47			ounty:	DOUGLAS	5				
Sample Type:					Depth (ft)	S	Sample Location			PSI
RV ■	Sub □	Chem □	DC □	Other \square	0				0	
Vegetation:	None	Trees □ Shr	rubs 🗆		2				2	
	Brushy □	Grassy □			4		Auger C	uttings	4	
Cut Section □		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	12''		10				10	
Remarks:	AC is 12" tl	nick, set on native?	Original grad	de in	12				12	
this area.					14				14	
					16				16	
Submitted By:	BOB WIN				18				18	
Title:	Engineeri	ng Technician III			20				20	
	a. a.						25			
	Sieve Size	% Passing			Liquid Limit		25	_		
	3"				Plastic Index		NP	_		
	2"				Specific Grav	-		_		
	1.5"				Resistance Va	alue	72	=		
	1"	100			Cover		Stabilometer		Expansion P	ressure
	3/4"	100			Thickn	ess	4.9	-		
	1/2"	99			C -		14			
	3/8"	98 96				ınd Equi	oisture, %			
	No. 4	85								
	No. 10	76				esistivity I Factor				
	No. 40	48			-		Classification	Λ-1-h		
	No. 50	39			A	ASIIIO	Classification	A-1-0		
	No. 100	25								
	No. 200	17								
	110. 200	<u> </u>								
Remarks:										
					•		•			

Date Reported:	10/14/11	_						
Lab No.:	S11-06, R	RV-433-11			_			
E.A.:	73643	_	Job I	Description:	KINGSBURY	GRADE SR 207	MP: 0.00 TO 3.76	
Date Rec'd	9/15/11	_						
Samplers:	BAKER,	RIGSBY		Station	"WR" 47+00		Route SR 207	
ALTAMIRANO	, WIMER			Location fro	m CL (ft)	Lt	Rt. 15'	
Sample No.:	6			County:	DOUGLAS			
Sample Type:					Depth (ft)	Sample Location		PSI
RV ■	Sub [☐ Chem ☐	DC 🗆	Other \square	<u>l</u> 0		0	
Vegetation:	None	Trees □ Shr	ubs 🗆		2		2	
	Brushy	l Grassy □			4	Auger C	uttings 4	
Cut Section □		Fill Section			6		6	
Taken Through Oil		Taken on Shoulder			8		8	
Gravel Depth (in)	0	Oil Depth (in)	11	_	10		10	
Remarks:	Original gr	ade in this area.			12		12	
					14		14	
					16		16	
Submitted By:	BOB WI	MER			18		18	
Title:	Engineer	ing Technician III			20		20	
	3" 2" 1.5" 1" 3/4" 1/2"	100 99			Liquid Limit Plastic Index Specific Gravity Resistance Valu Cover Thickness	e 73 Stabilometer	- - - Expansion P	ressure
	3/8"	99			Sand	Equivalent		
	No. 4	98				ral Moisture, %		
	No. 10	84				stivity		
	No. 16	71			рН Б	•		
	No. 40	40			_	HTO Classification	A-1-b	
	No. 50	30						
	No. 100	16						
	No. 200	9						
Remarks:								

Date Reported: Lab No.:		_ RV-495-11			_					
E.A.:	73643	_	Job I	Description:	KINGSBURY	Y GRA	DE SR 207 N	1P: 0.00 T	O 3.76	
Date Rec'd	10/04/11 DAKED	- DICCDV		C4-4:	!!XVD!! 40 . 50			D	CD 207	
Samplers: WIMER	BAKER,	KIGSBY		Station Location fro	"WR" 49+50	Lt.	1'	Route Rt.	SR 207	
Sample No.:	46			County:	DOUGLAS	Lt		Kt.		
Sample Type:				county.	Depth (ft)	Sai	mple Location			PSI
RV ■	Sub [☐ Chem ☐	DC 🗆	Other □	-				0	100
Vegetation:	None		rubs 🗆		2				2	
	Brushy \square				4		Auger Cu	ttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)	0	Oil Depth (in)	10''		10				10	
Remarks:	No gravel	base.		_	12				12	
					14				14	
					16				16	
Submitted By:					18				18	
Title:					20				20	
	a. a.	1 o/ p :			T1T		22			
	Sieve Size	% Passing			Liquid Limit	_				
	3"				Plastic Index	_	NP			
	2"				Specific Gravity	_				
	1.5"				Resistance Valu	ue _	74	,	- · D	
	1"	<u> </u>			Cover		Stabilometer	J	Expansion Pr	ressure
	3/4"				Thicknes	-S	5.3			
	3/8"				Some	d Fanisa	-l-m4			
	No. 4	100				d Equiva	isture, %			
	No. 10	93					isture, %			
	No. 16	82				stivity Factor	-			
	No. 40	49			_		Classification .	A 1 h		
	No. 50	37			AA	31110		A-1-0		
	No. 100	21								
	No. 200	13								
	140. 200	13								
Remarks:										

Date Reported:	10/14/11	-								
Lab No.:	S11-06, R	V-434-11			_					
E.A.:	73643	-	Job I	Description:	KINGSBU	URY GE	RADE SR 207	MP: 0.00	ГО 3.76	
Date Rec'd	9/15/11	<u>-</u>								
Samplers:	BAKER,	RIGSBY		Station	"WR" 52			Route		
ALTAMIRANO				Location fro		Lt.		Rt	8'	
Sample No.:	7			County:	DOUGLA	AS				
Sample Type:					Depth (ft)		Sample Location			PSI
RV ■	Sub □		DC 🗆	Other \Box	0				0	
Vegetation:			ubs 🗆		2				2	
	Brushy	Grassy			_ 4		Auger C	uttings	4	
Cut Section □		Fill Section □			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	9''	_	10				10	
Remarks:	Original gra	nde in this area.			12				12	
					14				14	
					16				16	
Submitted By:	BOB WIN	MER			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	99 95 81 71 47 38 24 15			;]]	ex vavity Value kness Sand Equ Natural M Resistivity pH Factor	Ioisture, % y		Expansion Pr	ressure
Remarks:	110. 200	10								

Date Reported: Lab No.: E.A.:	10/14/11 S11-06, F 73643	S11-06, RV-494-11 73643		Job Description:		: KINGSBURY GRADE SR 207 M				
Date Rec'd	10/04/11 DATED	- DICCDY				50			CD 205	
Samplers: WIMER	BAKER,	RIGSBY		Station	"WR" 54+		3.5'	_	SR 207	
Sample No.:	45			Location fro County:	DOUGLAS	Lt.	3.3	Rt.		
Sample Type:					Depth (ft)		ample Location			PSI
RV ■	Sub [☐ Chem ☐	DC 🗆	Other \square					0	100
Vegetation:	None	Trees □ Shr	ubs 🗆		2				2	
-	Brushy □	∃ Grassy □			4		Auger C	uttings	4	
Cut Section □		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)	0	Oil Depth (in)	9"	_	10				10	
Remarks:	Sample tak	ken @ grade level			12				12	
					14				14	
					16				16	
Submitted By:	BOB WI	MER			18				18	
Title:	Engineer	ing 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 99 98 94 84 76 51 41 25			Na Ro pI	vity falue less and Equivatural Moesistivity H Factor			Expansion P	ressure
Remarks:										

Date Reported: Lab No.:		_ XV-435-11			- VIDICEDIUNI	, CD ADE CD 405 I	 0.00 TV	0.2.50	
E.A.: Date Rec'd	73643 9/15/11	_	Job L	Description:	KINGSBURY	GRADE SR 207 M	MP: 0.00 TO	<u>J 3.76</u>	
Samplers:	BAKER,	- RIGSBY		Station	"WR" 57+00		Route	SR 207	
ALTAMIRANO	, WIMER			Location fro	om CL (ft)	Lt	Rt.	12'	
Sample No.:	8			County:	DOUGLAS				
Sample Type:	_	_	_	_	Depth (ft)	Sample Location			PSI
RV ■	Sub 🗆		DC 🗆	Other	_			0	200
Vegetation:	None		rubs \square		2			2	
	Brushy	•			_ 4	Auger Cı	uttings	4	
Cut Section	_	Fill Section			6			6	
Taken Through Oil		Taken on Shoulder			8			8	
Gravel Depth (in)	11"	Oil Depth (in)	6''	_	10			10	
Remarks:					_ 12			12	
					_ 14			14	
	DOD III	A CED			_ 16			16	
Submitted By:	BOB WI				_ 18			18	
Title:	Engineer	ing Technician III			_ 20			20	
	Sieve Size	% Passing			Liquid Limit	23			
	3"				Plastic Index	NP	ı		
	2"				Specific Gravity		ı		
	1.5"	<u> </u>			Resistance Valu		•		
	1"				Cover	Stabilometer	E	Expansion Pr	ressure
	3/4"				Thickness			F	
	1/2"								
	3/8"				Sand	Equivalent			
	No. 4	100				ral Moisture, %			
	No. 10	96				stivity			
	No. 16	90			рН Б	•			
	No. 40	64			_	HTO Classification	A-2-4(0)		
	No. 50	53					(-)		
	No. 100	33							
	No. 200	21							
		1							
Remarks:									
									

Date Reported: Lab No.:	10/14/11 S11-06, R	- XV-469-11		~					
E.A.:	73643		Job I	Description:	KINGSBURY O	GRADE SR 207	MP: 0.00 TO	3.76	
Date Rec'd	9/15/11	_							
Samplers:	BAKER,	RIGSBY		Station	"WR" 59+50		Route	SR 207	
ALTAMIRANO	, WIMER			Location fro	om CL (ft)	Lt.	Rt.	3.5'	
Sample No.:	44			County:	DOUGLAS				
Sample Type:					Depth (ft)	Sample Location			PSI
RV ■	Sub □	☐ Chem ☐	DC 🗆	Other	0			0	
Vegetation:	None	Trees □ Shr	ubs 🗆		2			2	
	Brushy	Grassy □			4	Auger C	uttings	4	
Cut Section		Fill Section			6			6	
Taken Through Oi	1 =	Taken on Shoulder			8			8	
Gravel Depth (in)		Oil Depth (in)	9	_	10			10	
Remarks:	Oil on nativ	ve material			12			12	
-					14			14	
-					16			16	
Submitted By:	BOB WI				18			18	
Title:	Engineeri	ing Technician III			20			20	
	Ciava Ciaa	0/ Passing			Lionid Limit	25			
	Sieve Size	% Passing			Liquid Limit		=		
	3"	_			Plastic Index	<u>NP</u>	_		
	2"	_			Specific Gravity	40	_		
	1.5"				Resistance Value	49 Stabilometer	-		
	3/4"				Cover Thickness	13.5	E	xpansion Pr	ressure
	1/2"				Thickness	13.5			
	3/8"				Sand F	animalant			
	No. 4	100				quivalent Moisture, %			
	No. 10	98			Resistiv				
	No. 16	95			pH Fact	•			
	No. 40	85			-	TO Classification	A 4(0)		
	No. 50	79			AASIII	10 Classification	A-4(0)		
	No. 100	62							
	No. 200	36							
	10. 200	30							
Remarks:									
Remarks.									

Date Reported: Lab No.:	10/14/11 S11-06, R	- V-436-11								
E.A.:	73643		Job D	Description:	KINGSBUR	Y GRA	DE SR 207	MP: 0.00	TO 3.76	
Date Rec'd	9/15/11	_								
Samplers:	BAKER,	RIGSBY		Station	"WR" 62+00	0		Route	SR 207	
ALTAMIRANO	, WIMER			Location fro	om CL (ft)	Lt		Rı	i. 3.5'	
Sample No.:	9			County:	DOUGLAS					
Sample Type:					Depth (ft)	San	nple Location			PSI
RV ■	Sub □	☐ Chem ☐	DC □	Other	0				0	200
Vegetation:	None	Trees □ Shru	ıbs 🗆		2				2	
	Brushy	Grassy □			4		Auger C	uttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)	5	Oil Depth (in)	7	_	10				10	
Remarks:					12				12	
					14				14	
					16				16	
Submitted By:	BOB WIN	MER			18				18	
Title:	Engineeri	ing Technician III			20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4"	% Passing			Liquid Limit Plastic Index Specific Gravit Resistance Val Cover	lue	74 Stabilometer 5.3	- - -	Expansion P	ressure
	1/2"	 			Thicknes	ss _	5.3	_		
	3/8"	100				d Equiva			_	
	No. 4	97				ural Moi	sture, %			
	No. 10	83				istivity				
	No. 16	73			-	Factor				
	No. 40	50			AAS	SHTO C	Classification	<u>A-1-b</u>		
	No. 50	42								
	No. 100	27								
	No. 200	17								
Remarks:										

Date Reported:	10/14/11									
Lab No.:		RV-489-11			- WINGGDI	IDV CD	ADE CD 205	MD 0.00 T	10.2 5 6	
E.A.:	73643	_	Job L	Description:	KINGSBU	JRY GR	ADE SR 207	MP: 0.00 1	O 3.76	
Date Rec'd	10/04/11	- DICCODY		a:	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	. 00		D .	CD 207	
Samplers:	BAKEK,	RIGSBY		Station	"WR" 67-			_	SR 207	
WIMER Sample No.	10			Location fro County:	m CL (II) DOUGLA	Lt.		Rt.	10.5'	
Sample No.:	10			County.						Day
Sample Type: RV ■	Sub [□ Chem □	DC 🗆	Other [Depth (ft)	S	ample Location		0	PSI 100
Vegetation:	None		rubs \square	Other	2				2	100
vegetation.		Grassy □	iuos 🗀				A			
Cut Section	Brushy L	•			<u>-</u> 4 6		Auger C	uttings	4 6	
Taken Through Oi	ı =	Fill Section □ Taken on Shoulder			8				8	
_	6''		9''		10				10	
Gravel Depth (in) Remarks:		Oil Depth (in)	9	_						
Remarks:	6" gravel b	base			- 12 14				12 14	
					16				16	
Submitted By:					18				18	
Title:					20				20	
Title.	-				20				20	
	g: g:	l ov Bassina			Timeta Time	•4	22			
	Sieve Size	e % Passing			Liquid Limi		23	-		
	3"	 			Plastic Inde		NP	-		
	2"				Specific Gra	-		_		
	1.5"	 			Resistance '	Value	70	-		
	1"				Cover		Stabilometer		Expansion Pa	ressure
	3/4"	100			Thick	iness	6.1	-		
	1/2"	100			,					
	3/8"	99				Sand Equi				
	No. 4	94				Natural M				
	No. 10	76				Resistivity				
	No. 16	67			-	H Factor	C1 : C1 .:	A 1 1		
	No. 40	47			I	AASHTO	Classification	A-1-D		
	No. 50	39								
	No. 100	25								
	No. 200	18								
Remarks:										
Komarks.										

Date Reported: Lab No.: E.A.:	10/14/11 S11-06, R 73643	_ RV-493-11 _	Job Description:		KINGSBURY GRADE SR 207 MP: 0.00 TO 3.76				O 3.76	
Date Rec'd	10/04/11 DAIVED	- DICCDV		g:	!!!!!D!! (0 . 50	`			CD 207	
Samplers: WIMER	BAKER,	RIGSBY		Station Location fro	"WR" 69+50	Lt.	3'	Route Rt.	SR 207	
Sample No.:	43	_		County:	DOUGLAS			Kt.		
Sample Type:				•	Depth (ft)	Sar	nple Location			PSI
RV ■	Sub □	☐ Chem ☐	DC 🗆	Other \square	0				0	100
Vegetation:	None	Trees □ Shru	ıbs 🗆		2				2	
	Brushy	l Grassy □			4		Auger Cu	ıttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1	Taken on Shoulder			8				8	
Gravel Depth (in)	8''	Oil Depth (in)	9"	_	10				10	
Remarks:	8" gravel b	ase.			12				12	
					14				14	
					16				16	
Submitted By:	BOB WI	MER			18				18	
Title:	Engineer	ing Technician III			20				20	
	Sieve Size	% Passing			Liquid Limit		21			
	3"	70 Tassing			Plastic Index	_	NP			
	2"				Specific Gravit	-	IVI			
	1.5"	 			Resistance Val	_	68			
	1"				Cover	_	Stabilometer	1	Expansion P	reccure
	3/4"				Thicknes		6.8		Expansion 1	icssuic
	1/2"				THERIC	_	0.0		-	
	3/8"	100			Sano	d Equiva	alent			
	No. 4	98				ural Moi				
	No. 10	86				istivity				
	No. 16	76				Factor	•			
	No. 40	52			•		Classification	A-2-4(0)		
	No. 50	43					•			
	No. 100	27								
	No. 200	17								
Remarks:										

Date Reported: Lab No.:	10/14/11 S11-06, R	_ XV-437-11			_				
E.A.:	73643	_	Job D	escription:	KINGSBURY	GRADE SR 207	MP: 0.00 T	O 3.76	
Date Rec'd	9/15/11	_							
Samplers:	BAKER,			Station	"WR" 74+50		_	SR 207	
ALTAMIRANO	•			Location fro		Lt	Rt.	2'	
Sample No.:	12			County:	DOUGLAS				
Sample Type:					Depth (ft)	Sample Location			PSI
RV ■	Sub □		DC 🗆	Other \square	<u> </u>			0	
Vegetation:			nrubs \square		2			2	
	Brushy	Grassy			_ 4	Auger C	uttings	4	
Cut Section		Fill Section			6			6	
Taken Through Oil		Taken on Shoulde			8			8	
Gravel Depth (in)	0	Oil Depth (in)	11"	<u>-</u>	10			10	
Remarks:	Oil is on na	ative material in this	area. Oil (0-11".	12			12	
Sand and DG 11"-:	3", DG w/co	bbles or boulders 3	-5'.		14			14	
					16			16	
Submitted By:	BOB WI	MER			18			18	
Title:	Engineeri	ing Technician II	I		20			20	
	Sieve Size	% Passing			Liquid Limit	21			
	3"				Plastic Index	NP			
	2"	100			Specific Gravity		_		
	1.5"	99			Resistance Value	75	_		
	1"	96			Cover	Stabilometer	-	Expansion Pr	essure
	3/4"	93			Thickness	4.9		•	
	1/2"	90					_		
	3/8"	86			Sand E	Equivalent			
	No. 4	81				l Moisture, %			
	No. 10	70			Resisti				
	No. 16	62			pH Fac	•			
	No. 40	43				TO Classification	A-1-b		
	No. 50	35			1111011		11 1 0		
	No. 100	22							
	No. 200	13							
	110. 200	13							
Remarks:									

Date Reported: Lab No.: E.A.:	10/14/11 S11-06, F 73643	_ RV-492-11	Joh D	Description:	n: KINGSBURY GRADE SR 207 MP: 0.00 TO 3.76					
Date Rec'd	10/04/11	_	J00 L	escription.	KINGSBUK	I GR	ADE SK 2071	VII . U.UU I	3.70	
Samplers:	BAKER,	RIGSBY		Station	"WR" 76+0	0		Route	SR 207	
Sample No.:	42			Location fro County:	m CL (ft) DOUGLAS	Lt.	4'	Rt.		
Sample Type:				•	Depth (ft)	Sa	mple Location			PSI
RV ■	Sub [□ Chem □	DC □	Other \Box					0	100
Vegetation:	None	Trees □ S	Shrubs 🗆		2				2	
	Brushy [☐ Grassy ☐			4		Auger C	uttings	4	
Cut Section		Fill Section]		6				6	
Taken Through Oi	1	Taken on Should	er 🗆		8				8	
Gravel Depth (in)	0	Oil Depth (in)	7''	_	10				10	
Remarks:	No gravel	base.			12				12	
					14				14	
					16				16	
Submitted By:					18				18	
Title:					20				20	
	Sieve Size	e % Passing			Liquid Limit		21			
	3"	70 1 dssing			Plastic Index	-	NP	-		
	2"				Specific Gravi	tv	111	-		
	1.5"	+			Resistance Val	-	62	•		
	1"	 			Cover	<u>-</u>	Stabilometer	-	Expansion Pr	ressure
	3/4"	 			Thickne	22	8.6		Expunsion 1	ressure
	1/2"	<u> </u>			Timekine	-	0.0	-	-	
	3/8"	100			San	ıd Equiv	ralent			
	No. 4	99				_	isture, %			
	No. 10	94				sistivity				
	No. 16	87				Factor				
	No. 40	66			_		Classification	A-2-4(0)		
	No. 50	56								
	No. 100	39								
	No. 200	26								
Remarks:										

Date Reported: Lab No.:	10/14/11 S11-06, R	_ RV-468-11								
E.A.:	73643		Job I	Description:	KINGSBUR	RY GR	ADE SR 207	MP: 0.00 T	O 3.76	
Date Rec'd	9/22/11	_								
Samplers:	BAKER,	RIGSBY		Station	"WR" 79+5	50		Route	SR 207	
ALTAMIRANO), WIMER			Location fro	om CL (ft)	Lt.	13'	Rt.		
Sample No.:	41			County:	DOUGLAS					
Sample Type:					Depth (ft)	5	Sample Location			PSI
RV ■	Sub [☐ Chem ☐	DC 🗆	Other	0				0	200
Vegetation:	None	Trees □ Sh	rubs 🗆		2				2	
	Brushy	l Grassy □			4		Auger C	uttings	4	
Cut Section □		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)	0	Oil Depth (in)	11"		10				10	
Remarks:	Oil on DG	no base			12				12	
					14				14	
					16				16	
Submitted By:	BOB WI	MER			18				18	
Title:	Engineer	ing Technician III	[20				20	
	3" 2" 1.5"	100			Liquid Limit Plastic Index Specific Grav Resistance Va	-	21 NP 74	- - -		
	1"	96			Cover		Stabilometer	•	Expansion Pa	ressure
	3/4"	96			Thickne	ess	5.3	_		
	1/2"	95								
	3/8"	95				nd Equi				
	No. 4	91					oisture, %			
	No. 10	80				esistivity	7			
	No. 16	70			-	I Factor				
	No. 40	47			AA	ASHTO	Classification	<u>A-1-b</u>		
	No. 50	38								
	No. 100	25								
	No. 200	17								
Remarks:	Line Samp	ling								

Date Reported: Lab No.:	10/14/11 S11-06, R 73643	- RV-438-11	T-L T	Name : 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- VINCEBURY	v cd	ADE SD 2071	мр. о оо т	SO 2.74	
E.A.: Date Rec'd	9/15/11	_	JOD L	Description:	KINGSBURY	I GRA	ADE SK 207	VIF: 0.00 I	.0 3.70	
Samplers:	BAKER,	- RIGSBY		Station	"WR" 84+25			Route	SR 207	
ALTAMIRANO	, WIMER	1		Location fro		Lt.	3.5'	Rt.		
Sample No.:	13	_		County:	DOUGLAS	_		-		
Sample Type:					Depth (ft)	Sa	mple Location			PSI
RV ■	Sub 🗆	☐ Chem ☐	DC 🗆	Other	0				0	200
Vegetation:	None	Trees □ Shr	rubs \square		2				2	
	Brushy	l Grassy □			4		Auger C	uttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oil	1	Taken on Shoulder			8				8	
Gravel Depth (in)	0	Oil Depth (in)	8''	_	10				10	
Remarks:	Taken on I	T due to utilities. Oi	l on DG		12				12	
					14				14	
					16				16	
Submitted By:	BOB WI				18				18	
Title:	Engineer	ing Technician III			_ 20				20	
	Sieve Size	% Passing			Liquid Limit		23			
	3"	70 T ussing			Plastic Index	-	NP	-		
	2"	,			Specific Gravity	-	111	-		
	1.5"	 			Resistance Valu	-	67	•		
	1"				Cover	_	Stabilometer	-	Expansion P	ressure
	3/4"				Thicknes		7.6		Expansion 1	ressure
	1/2"				THERIES	-	7.0	-		
	3/8"				Sand	l Equiv	alent			
	No. 4	100				_	isture, %			
	No. 10	98				stivity	150010, 70			
	No. 16	92				Factor				
	No. 40	69			•		Classification	A-2-4(0)		
	No. 50	58			1 11 10	,,,,,	014551114411011	11 2 1(0)	-	
	No. 100	36								
	No. 200	21								
Remarks:										

Date Reported: Lab No.:	10/14/11 S11-06, R	- V-467-11			_				
E.A.:	73643	_	Job I	Description:	KINGSBURY	GRADE SR 207	MP: 0.00 T	O 3.76	
Date Rec'd	9/15/11	<u>-</u>			·				
Samplers:	BAKER,	RIGSBY		Station	"WR" 89+25		Route	SR 207	
ALTAMIRANO				Location fro		Lt	Rt.	3'	
Sample No.:	40			County:	DOUGLAS				
Sample Type:					Depth (ft)	Sample Location			PSI
RV ■	Sub □	Chem □	DC 🗆	Other	0			0	200
Vegetation:	None	Trees □ Sh	rubs 🗆		2			2	
	Brushy \square	Grassy □			4	Auger C	uttings	4	
Cut Section □		Fill Section			6			6	
Taken Through Oil	l =	Taken on Shoulder			8			8	
Gravel Depth (in)		Oil Depth (in)	8''	_	10			10	
Remarks:	Taken on R	t due to utilities. Oi	l on DG		12			12	
					14			14	
					16			16	
Submitted By:	BOB WIN	MER			18			18	
Title:	Engineeri	ng Technician II	[20			20	
	Sieve Size	% Passing			Liquid Limit	26	_		
	3"				Plastic Index	NP	_		
	2"				Specific Gravity		_		
	1.5"				Resistance Value	e <u>73</u>	_		
	1"				Cover	Stabilometer	I	Expansion P	ressure
	3/4"				Thickness	5.6	_		
	1/2"	100							
	3/8"	99			Sand	Equivalent	-		
	No. 4	91			Natur	al Moisture, %			
	No. 10	70			Resist	tivity	-		
	No. 16	58			pH Fa	actor			
	No. 40	34			AASI	HTO Classification	A-1-b		
	No. 50	28							
	No. 100	18							
	No. 200	12							
D 1									
Remarks:									

Date Reported: Lab No.:	10/14/11 S11-06, R	_ XV-439-11			_					
E.A.:	73643	_	Job I	Description:	KINGSBUR	Y GRADE	SR 207	MP: 0.00 T	O 3.76	
Date Rec'd	9/15/11	_ 		~ .					GD 40=	
Samplers:	BAKER,			Station	"WR" 94+25			-	SR 207	
ALTAMIRANO Sample No.:), WIMER 14			Location fro County:	om CL (ft) DOUGLAS	Lt		Rt.	3'	
Sample Type:	14			County.		Commuta	Location			PSI
RV ■	Sub □	☐ Chem ☐	DC 🗆	Other \Box	Depth (ft) 0	Sample	Location		0	200
Vegetation:	None ■		ubs \square	Other L	2				2	200
vegetation.	Brushy \square		uos 🗀		4		Auger C	uttings	4	
Cut Section	Drusny —	Fill Section □			6		7 Tuger C	dungs	6	
Taken Through Oil	ı =	Taken on Shoulder			8				8	
Gravel Depth (in)	. —	Oil Depth (in)	9"		10				10	
Remarks:	Oil on DG	_ on 2 op in (in)			12				12	
					14				14	
					16				16	
Submitted By:	BOB WI	MER			18				18	
Title:		ing Technician III			20				20	
	Sieve Size 3" 2" 1.5"	% Passing			Liquid Limit Plastic Index Specific Gravit Resistance Val		24 NP	- - -		
	1"				Cover		ilometer	-]	Expansion P	ressure
	3/4"				Thicknes		5.9		1	
	1/2"	100						-		
	3/8"	99			San	d Equivalen	t			
	No. 4	94			Nati	ural Moistui	re, %			
	No. 10	81			Resi	istivity				
	No. 16	71			pH l	Factor				
	No. 40	47			AAS	SHTO Clas	sification	A-1-b		
	No. 50	38								
	No. 100	24								
	No. 200	15								
Remarks:										

Date Reported: Lab No.: E.A.:	73643	_ RV-466-11 _	Job D	Description:	iption: KINGSBURY GRADE SR 207 MP: 0.00 TO					
Date Rec'd	9/15/11 DAIVED	- DICCDV		a:	!!!!!D!! 00 . 25		D (CD 207		
Samplers: ALTAMIRANO	BAKER,			Station Location fro	"WR" 99+25	Lt.	Route Rt.	SR 207 3'		
Sample No.:	39	<u> </u>		County:	DOUGLAS	J	- Kt.			
Sample Type:					Depth (ft)	Sample Location			PSI	
RV ■	Sub 🗆	☐ Chem ☐	DC 🗆	Other \Box		*		0	200	
Vegetation:	None	Trees □ Shr	ubs 🗆		2			2		
	Brushy \square	l Grassy □			4	Auger C	uttings	4		
Cut Section □		Fill Section			6		-	6		
Taken Through Oil	I =	Taken on Shoulder			8			8		
Gravel Depth (in)	0	Oil Depth (in)	12	_	10			10		
Remarks:	Oil on DG.				12			12		
					14			14		
					16			16		
Submitted By:	BOB WI	MER			18			18		
Title:	Engineer	ing Technician III			20			20		
	Ciava Cia	0/ Passing			I i ani d I imit	23				
	Sieve Size	% Passing			Liquid Limit		_			
	3"	 			Plastic Index	NP	_			
	2"	 			Specific Gravity	74	-			
	1.5"	 			Resistance Value		_	C D		
		100			Cover	Stabilometer 5.3		Expansion Pr	ressure	
	3/4" 1/2"	96			Thickness		-			
	3/8"	93			Sand Fo	quivalent				
	No. 4	86				Moisture, %				
	No. 10	69			Resistiv					
	No. 16	57			pH Fact	•				
	No. 40	34			•	CO Classification	Δ-1-h			
	No. 50	27			AASIII	o Classification	A-1-0			
	No. 100	17								
	No. 200	11								
	110. 200									
Remarks:										

Date Reported:	10/14/11	<u> </u>						
Lab No.:		RV-442-11			_			
E.A.:	73643	_	Job I	Description:	KINGSBURY	GRADE SR 207	MP: 0.00 TO 3.76	
Date Rec'd	9/15/11	_						
Samplers:		RIGSBY		Station	"WR" 104+25	<u> </u>	Route SR 207	
ALTAMIRANO	,	<u> </u>		Location fro		Lt	Rt. 12'	
Sample No.:	15			County:	DOUGLAS			
Sample Type:					Depth (ft)	Sample Location		PSI
RV ■	Sub [☐ Chem ☐	DC 🗆	Other \square	0		0	
Vegetation:	None	Trees □ Shi	rubs \square		2		2	
	Brushy \square	∃ Grassy □			4	Auger C	Cuttings 4	
Cut Section □		Fill Section			6		6	1
Taken Through Oil		Taken on Shoulder			8		8	
Gravel Depth (in)	7''	Oil Depth (in)	5''	_	10		10	
Remarks:	Sample tak	ten on fill area.			12		12	
					14		14	
					16		16	
Submitted By:	BOB WI	MER			18		18	
Title:	Engineer	ing Technician III			20		20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	Passing 100			Liquid Limit Plastic Index Specific Gravity Resistance Value Cover Thickness		- - - Expansion I	Pressure
	3/8"	99			Sand	Equivalent		
	No. 4	88				ral Moisture, %		•
	No. 10	68			Resis		-	-
	No. 16	57			pH Fa	•		-
	No. 40	35			_	HTO Classification	A-1-h	-
	No. 50	29			717151	110 Classification	11-1-0	-
	No. 100	18						
	No. 200	11						
	110. 200	1 **						
Remarks:								

Date Reported: Lab No.: E.A.:	10/14/11 S11-06, R 73643	_ XV-465-11	Job Description	on: KINGSBURY	KINGSBURY GRADE SR 207 MP: 0.00 TO 3.76						
Date Rec'd	9/15/11	- -									
Samplers:	BAKER,	RIGSBY	Station	"WR" 109+25	5	Route SR 20	07				
ALTAMIRANO	, WIMER		Locatio	on from CL (ft)	Lt. 2.5'	Rt.					
Sample No.:	38		County	: DOUGLAS							
Sample Type:				Depth (ft)	Sample Location		PSI				
RV ■	Sub □	☐ Chem ☐	DC □ Oth	ner □ 0			0 100				
Vegetation:	None	Trees □ Shr	ubs 🗆	2			2				
	Brushy	Grassy □		4	Auger	Cuttings	4				
Cut Section		Fill Section		6			6				
Taken Through Oil	1	Taken on Shoulder		8			8				
Gravel Depth (in)	0	Oil Depth (in)	12"	10			10				
Remarks:	Water in ho	ole. Water at 4', waite	ed 10 minutes to	12			12				
measure.				14			14				
				16			16				
Submitted By:	BOB WI	MER		18			18				
Title:	Engineer	ing Technician III		20			20				
		1 .									
	Sieve Size	% Passing		Liquid Limit	23	_					
	3"			Plastic Index	1	_					
	2"			Specific Gravity		_					
	1.5"			Resistance Valu		<u> </u>					
	1"			Cover	Stabilometer	Expansi	ion Pressure				
	3/4"	100		Thickness	7.9	_					
	1/2"	99									
	3/8"	99			Equivalent	-					
	No. 4	94			ral Moisture, %	-					
	No. 10	80			stivity	-					
	No. 16	70		pH F							
	No. 40	48		AAS	HTO Classification	A-2-6(1)					
	No. 50	41									
	No. 100	29									
	No. 200	20									
Remarks:											

Date Reported: Lab No.:	10/14/11 S11-06, R	_ RV-443-11			_				
E.A.:	73643	<u>-</u>	Job I	Description:	KINGSBUR	Y GRADE SR 207	MP: 0.00 TO	3.76	
Date Rec'd	9/15/11								
Samplers:	BAKER,	RIGSBY		Station	"WR" 114+0	00	Route	SR 207	
ALTAMIRANO), WIMER			Location fro		Lt	Rt.	12'	
Sample No.:	16			County:	DOUGLAS				
Sample Type:					Depth (ft)	Sample Location			PSI
RV ■	Sub [☐ Chem ☐	DC 🗆	Other	0			0	
Vegetation:	None	Trees □ Shi	rubs 🗆		2			2	
	Brushy	l Grassy □			4	Auger	Cuttings	4	
Cut Section □		Fill Section			6			6	
Taken Through Oi	l =	Taken on Shoulder			8			8	
Gravel Depth (in)	9''	Oil Depth (in)	3''	_	10			10	
Remarks:	Hole very	damp, no free moistu	re.		12			12	
					14			14	
					16			16	
Submitted By:	BOB WI	MER			18			18	
Title:	Engineer	ing Technician III	-		20			20	
	3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16	100 98 88 72 62			Nati Res	ue 74 Stabilometer	E	xpansion Pr	ressure
	No. 40	39			AA	SHTO Classification	A-1-b		
	No. 50	32							
	No. 100	20							
	No. 200	13							
Remarks:									

Date Reported: Lab No.:	10/14/11 S11-06, R	_ RV-464-11						
E.A.:	73643		Job I	Description:	- KINGSBURY	Y GRADE SR 207	MP: 0.00 TO 3.76	
Date Rec'd	9/15/11	_		•				
Samplers:	BAKER,	RIGSBY		Station	"WR" 119+0	0	Route SR 207	
ALTAMIRANO	, WIMER			Location fro	om CL (ft)	Lt.	Rt. 2.5'	
Sample No.:	37	<u>-</u>		County:	DOUGLAS			
Sample Type:					Depth (ft)	Sample Location		PSI
RV ■	Sub [☐ Chem ☐	DC □	Other	0		0	200
Vegetation:	None	Trees □ Shr	ubs 🗆		2		2	
	Brushy [l Grassy □			4	Auger C	Cuttings 4	
Cut Section □		Fill Section			6		6	;
Taken Through Oil		Taken on Shoulder			8		8	
Gravel Depth (in)	0	Oil Depth (in)	9''	_	10		10	
Remarks:	Taken on F	Rt due to utilities.			12		12	
					14		14	
					16		16	ı——
Submitted By:	BOB WI	MER			18		18	
Title:	Engineer	ing Technician III			20		20	
	Sieve Size	% Passing			Liquid Limit	23	_	
	3"				Plastic Index	NP	_	
	2"				Specific Gravity	y	_	
	1.5"				Resistance Valu	ie 76	_	
	1"				Cover	Stabilometer	Expansion	Pressure
	3/4"	100			Thickness	s 4.6	<u></u>	
	1/2"	99						
	3/8"	97			Sand	l Equivalent		
	No. 4	84			Natu	ral Moisture, %		
	No. 10	65			Resis	stivity		_
	No. 16	54			pH F	Factor		
	No. 40	33			AAS	SHTO Classification	A-1-b	
	No. 50	27						
	No. 100	17						
	No. 200	11						
Remarks:								

Date Reported: Lab No.: E.A.:	73643	- RV-444-11 -	Job Descript	ion:	KINGSBURY GRADE SR 207 MP: 0.00 TO 3.76						
Date Rec'd Samplers:	9/15/11 BAKER,	_ DICSRV	Statio	n	"WR" 124+00	1	Poute	SR 207			
ALTAMIRANO					m CL (ft)	Lt.	- Route Rt.				
Sample No.:	17	<u>. </u>	Count		DOUGLAS		-				
Sample Type:					Depth (ft)	Sample Location			PSI		
RV ■	Sub □	☐ Chem ☐	DC □ Ot	ther \square	0			0	200		
Vegetation:	None	Trees □ Shrul	bs 🗆		2			2			
	Brushy	l Grassy □			4	Auger C	Cuttings	4			
Cut Section □		Fill Section			6			6			
Taken Through Oil		Taken on Shoulder			8			8			
Gravel Depth (in)	0	Oil Depth (in)	9''		10			10			
Remarks:					12			12			
					14			14			
					16			16			
Submitted By:	BOB WI	MER			18			18			
Title:	Engineer	ing Technician III			20			20			
	Sieve Size	0/ Passing			Liquid Limit	23					
		% Passing			Liquid Limit		_				
	3"	100			Plastic Index	NP	_				
	2"	100			Specific Gravity		_				
	1.5"	99			Resistance Value	Stabilometer	_	E D			
		_			Cover			Expansion P	ressure		
	3/4" 1/2"	97 97			Thickness	5.9	_				
	3/8"	95			Sand	Equivolant					
	No. 4	84				Equivalent ral Moisture, %	-				
	No. 10	69			Resis						
	No. 16	58			pH Fa	•					
	No. 40	37				HTO Classification	A 1 b				
	No. 50	30			AASI	TTO Classification	A-1-0				
	No. 100	19									
	No. 200	12									
	No. 200	12									
Remarks:											

Date Reported:	10/14/11	_						
Lab No.:	S11-06, R	2V-463-11			_			
E.A.:	73643	_	Job D	Description:	KINGSBURY	GRADE SR 207	MP: 0.00 TO 3.76	
Date Rec'd	9/15/11	_						
Samplers:	BAKER,	RIGSBY		Station	"WR" 128+20	0	Route SR 207	
ALTAMIRANO				Location fro		Lt	Rt. 12.5'	
Sample No.:	36			County:	DOUGLAS			
Sample Type:					Depth (ft)	Sample Location		PSI
RV ■	Sub 🗆	☐ Chem ☐	DC □	Other \square	0		0	100
Vegetation:	None	Trees □ Shru	ıbs 🗆		2		2	
	Brushy \square	Grassy □			4	Auger C	Cuttings 4	
Cut Section		Fill Section			6		6	
Taken Through Oil		Taken on Shoulder			8		8	
Gravel Depth (in)	6''	Oil Depth (in)	6''	_	10		10	
Remarks:	Water in he	ole at 4'.			12		12	
					14		14	
					16		16	
Submitted By:	BOB WI	MER			18		18	
Title:	Engineer	ing Technician III			20		20	
	Sieve Size 3" 2" 1.5" 1" 3/4"	100 99 99			Liquid Limit Plastic Index Specific Gravity Resistance Valu Cover Thickness	e 71 Stabilometer	Expansion P	ressure
	1/2"	96						
	3/8"	95				Equivalent		
	No. 4	90				ral Moisture, %		
	No. 10	79				stivity		
	No. 16	70			pH F			
	No. 40	48			AAS	HTO Classification	A-1-b	
	No. 50	40						
	No. 100	25						
	No. 200	16						
Remarks:								

Date Reported: Lab No.:	10/14/11 S11-06, R 73643	- XV-445-11	I.b.T	\	KINGSBURY GRADE SR 207 MP: 0.00 TO 3.76					
E.A.: Date Rec'd	9/15/11	_	JOD L	Description:	KINGSDUK	I GR	ADE SK 207	VIP: 0.00 I	10 3.70	
Samplers:	BAKER,	- RIGSBY		Station	"WR" 134+0)0		Route	SR 207	
ALTAMIRANO	, WIMER			Location fro		Lt.	8'	Rt.		
Sample No.:	18			County:	DOUGLAS					
Sample Type:					Depth (ft)	S	ample Location			PSI
RV ■	Sub □	☐ Chem ☐	DC 🗆	Other] 0				0	400
Vegetation:	None	Trees □ Shi	rubs \square		2				2	
	Brushy	•			_ 4		Auger C	uttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	10''	_	10				10	
Remarks:					_ 12				12	
					_ 14				14	
-					- 16				16	
Submitted By:	BOB WIN				18				18	
Title:	Engineer	ing Technician III			_ 20				20	
	Sieve Size	% Passing			Liquid Limit		20			
	3"				Plastic Index		NP	•		
	2"				Specific Gravity	v		•		
	1.5"				Resistance Valu		72	-		
	1"				Cover		Stabilometer	-	Expansion P	ressure
	3/4"	100			Thicknes	SS	5.9		1	
	1/2"	98						-		
	3/8"	97			Sano	d Equi	valent			
	No. 4	87			Natu	ural Mo	oisture, %			
	No. 10	68			Resi	istivity				
	No. 16	57			рН І	Factor				
	No. 40	37			AAS	SHTO	Classification	A-1-b		
	No. 50	30								
	No. 100	20								
	No. 200	14								
Remarks:										

Date Reported: Lab No.:	10/14/11 S11-06, R	_ 2V-462-11								
E.A.:	73643	V -402-11	Job I	Description:	- KINGSBUR	RY GR	ADE SR 207	MP: 0.00 '	ГО 3.76	
Date Rec'd	9/15/11	_								
Samplers:	BAKER,	RIGSBY		Station	"WR" 139+	-00		Route	SR 207	
ALTAMIRANO	, WIMER			Location fro	om CL (ft)	Lt.	7'	Rt		
Sample No.:	35			County:	DOUGLAS			_		
Sample Type:					Depth (ft)	S	Sample Location			PSI
RV ■	Sub □	☐ Chem ☐	DC □	Other	0				0	200
Vegetation:	None	Trees □ Shr	ubs 🗆		2				2	
	Brushy	Grassy □			4		Auger C	uttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oi		Taken on Shoulder			8				8	
Gravel Depth (in)	0	Oil Depth (in)	6''	_	10				10	
Remarks:	No base.				12				12	
					14				14	
					16				16	
Submitted By:	BOB WI	MER			18				18	
Title:	Engineer	ing Technician III			20				20	
	3" 2" 1.5"	% Passing			Liquid Limit Plastic Index Specific Gravi Resistance Va	-	21 NP 75	- - -		
	1"	98			Cover	iiue	Stabilometer	-	Expansion P	reccure
	3/4"	96			Thickne	200	4.9		Expansion 1	ressure
	1/2"	93			THICKIE	200	4.2	_		
	3/8"	91			Sar	nd Equi	valent			
	No. 4	83				_	oisture, %			
	No. 10	66				sistivity				
	No. 16	56				Factor				
	No. 40	36			-		Classification	A-1-b		
	No. 50	29								
	No. 100	18								
	No. 200	12								
Remarks:										

Date Reported: Lab No.:	10/14/11 S11-06, R	_ XV-448-11			_				
E.A.:	73643	_	Job D	escription:	KINGSBURY	GRADE SR 207 N	AP: 0.00 TO	0 3.76	
Date Rec'd	9/22/11 DAMED	- DICCDV		g:	UXVDU 144 . 00		D .	CD 207	
Samplers:	BAKER,	RIGSBY		Station	"WR" 144+00	T 4		SR 207	
Sample No.:	19			Location fro County:	DOUGLAS	Lt	Rt.	9	
Sample Type:					Depth (ft)	Sample Location			PSI
RV □	Sub	Chem □	DC □	Other \Box	0			0	200
Vegetation:	None	Trees □ Shr	rubs 🗆		2			2	
	Brushy	Grassy □			4	Auger Cu	ıttings	4	
Cut Section □		Fill Section			6			6	
Taken Through Oil		Taken on Shoulder			8			8	
Gravel Depth (in)		Oil Depth (in)	8''		10			10	
Remarks:	8" Plantmix	x, no base material, d	rilled in f	ill area.	12			12	
					14			14	
					16			16	
Submitted By:	BOB WI	MER			18			18	
Title:	Engineer	ing Technician III			20			20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	% Passing 100 99			Liquid Limit Plastic Index Specific Gravity Resistance Value Cover Thickness	20 NP 72 Stabilometer 5.9	E	xpansion P	ressure
	3/8"	98			Sand E	Equivalent			
	No. 4	94				l Moisture, %			
	No. 10	79			Resisti	vity			
	No. 16	68			pH Fac	etor			
	No. 40	44			AASH	TO Classification	A-1-b		
	No. 50	35				•			
	No. 100	22							
	No. 200	14							
Remarks:	Line Samp	ling							

Date Reported: Lab No.:	10/14/11 S11-06, R	- V-461-11			_					
E.A.:	73643	_	Job I	Description:	KINGSBUR	Y GR	ADE SR 207	MP: 0.00 T	ГО 3.76	
Date Rec'd	9/22/11 DAKED	- DICCDV		C4-4:	!!X/D!! 140.4	00		D4-	CD 207	
Samplers:	BAKER,	KIGSD I		Station Location fro	"WR" 149+0	Lt.	6.5'	Route Rt.		
Sample No.:	34			County:	DOUGLAS	Lt.		<u>-</u> Kt.		
Sample Type:				•	Depth (ft)	S	Sample Location			PSI
RV ■	Sub □	☐ Chem ☐	DC □	Other \Box	0				0	200
Vegetation:	None	Trees □ Sh	rubs 🗆		2				2	
	Brushy □	Grassy □			4		Auger C	Cuttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oi		Taken on Shoulder	. 🗆		8				8	
Gravel Depth (in)	7''	Oil Depth (in)	6''	_	10				10	
Remarks:	Base consis	sts of grindings and	some DG	•	12				12	
					14				14	
					16				16	
Submitted By:	PETE BA				18				18	
Title:	Superviso	or 1			20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40	98 97 94 82 62 50 30			Nat Res pH	ss ad Equi aural M sistivity Factor	oisture, %		Expansion P	ressure
	No. 50 No. 100 No. 200	23 13 7								
Remarks:	Line Sampl	ling for roadway sub	grade test	ing.						

Date Reported: Lab No.:	10/14/11 S11-06, F	_ RV-449-11							
E.A.:	73643	_	Job I	Description:	KINGSBURY	GRADE SR 207	MP: 0.00 T	O 3.76	
Date Rec'd	9/22/11								
Samplers:	BAKER,	RIGSBY		Station	"WR" 154+00		Route	SR 207	
WIMER	20			Location fro		Lt	Rt.	5'	
Sample No.:	20			County:	DOUGLAS				
Sample Type:	a . F		D.C. [0.1	Depth (ft)	Sample Location			PSI
RV ■	Sub [DC 🗆	Other	_			0	200
Vegetation:	None		rubs \square		2			2	
G : G :: -	Brushy	•			- 4	Auger C	uttings	4	
Cut Section		Fill Section Gl 11			6			6	
Taken Through Oi		Taken on Shoulder	10"		8			8	
Gravel Depth (in)	0.1 DC	Oil Depth (in)	10"	_	10			10	
Remarks:	Oil on DG	, no base material.			_ 12			12	
					- 14			14	
C-1:4- 1 D	BOB WI	MED			- 16			16	
Submitted By: Title:		ing Technician III			- 18 20			18 20	
					1				
	Sieve Size	% Passing			Liquid Limit	21	_		
	3"				Plastic Index	NP	-		
	2"				Specific Gravity		-		
	1.5"				Resistance Value	76	-		
	1"				Cover	Stabilometer	I	Expansion Pa	ressure
	3/4"				Thickness	4.6	-		
	1/2"	100							
	3/8"	96			Sand I	Equivalent			
	No. 4	81			Natura	al Moisture, %			
	No. 10	59			Resist	ivity			
	No. 16	49			pH Fa	ctor			
	No. 40	31			AASH	HTO Classification	A-1-b		
	No. 50	25							
	No. 100	14							
	No. 200	9							
Remarks:	Line Samp	ling							

Date Reported: Lab No.:	10/14/11 S11-06, R	_ XV-491-11			_					
E.A.:	73643	_	Job D	escription:	KINGSBUR	Y GRA	ADE SR 207 I	MP: 0.00 T	O 3.76	
Date Rec'd	10/04/11	_								
Samplers:	BAKER,	RIGSBY		Station	"WR" 159+0				SR 207	
WIMER	22			Location fro		Lt.	8'	Rt.		
Sample No.:	33			County:	DOUGLAS					
Sample Type:	G 1 F		ъс П	0.1	Depth (ft)	Sa	ample Location		0	PSI
RV Vacatations	Sub [DC 🗆	Other	_				0	100
Vegetation:	None Remarks:		Shrubs		2		Augan C	uttin aa	2	
Cut Section	Brushy L	Grassy □ Fill Section □	1		<u>-</u> 4 6		Auger Cı	nungs	4 6	
Taken Through Oil	ı =	Fill Section Taken on Should			8				8	
Gravel Depth (in)	0	Oil Depth (in)	10"		10				10	
Remarks:		oase, possible oil c		- ztile	12				12	
under the plantmix		base, possible on e	oated geotez	Kuic	14				14	
under the plantinix	•				16				16	
Submitted By:					18				18	
Title:					20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10 No. 16 No. 40	100 98 88 71 62 41			Nat Res pH	d Equivural Moistivity	20 NP 74 Stabilometer 5.3 valent bisture, %		Expansion Pr	ressure
	No. 50 No. 100 No. 200	33 20 12								
Remarks:										

Date Reported:	10/14/11	_								
Lab No.:	S11-06, R	V-446-11			_					
E.A.:	73643	_	Job I	Description:	KINGSBUR	Y GR	ADE SR 207	MP: 0.00	ГО 3.76	
Date Rec'd	9/15/11	_								
Samplers:	BAKER,	RIGSBY		Station	"WR" 164+	00		Route	SR 207	
ALTAMIRANO				Location fro		Lt.	2'	Rt		
Sample No.:	21			County:	DOUGLAS					
Sample Type:					Depth (ft)	S	Sample Location			PSI
RV ■	Sub □	Chem □	DC 🗆	Other \square	0				0	
Vegetation:	None	Trees □ Shr	ubs 🗆		2				2	
	Brushy \square	Grassy □			4		Auger C	Cuttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	9''	_	10				10	
Remarks:	Taken on L	t due to utilities.			12				12	
					14				14	
					16				16	
Submitted By:	BOB WIN	MER			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	99 97 88 73 62 39 31 18 11			Nat Res pH	lue ess and Equitural M sistivity Factor	oisture, %	A-1-b	Expansion Pr	ressure
Remarks:										

Date Reported:	10/14/11	- V 400 11								
Lab No.: E.A.:	S11-06, R 73643	<u>V-40U-11</u>	Ioh I	Description:	- KINCSRUD	V CD	ADE SR 207	MD. 0 00 '	TO 3.76	
Date Rec'd	9/15/11	-	JOUL	escription.	KINGSDUK	II GN	ADE SK 201	WIF : U.UU	10 3.70	
Samplers:	BAKER,	_ RIGSBY		Station	"WR" 169+	.00		Route	SR 207	
ALTAMIRANO		_		Location fro		Lt.	6.5'	- Route		
Sample No.:	32			County:	DOUGLAS	20.		_		
Sample Type:				· · · · · · · · · · · · · · · · · · ·	Depth (ft)	S	Sample Location			PSI
RV ■	Sub □	☐ Chem ☐	DC □	Other \Box	0				0	
Vegetation:	None	Trees □ Sh	rubs 🗆		2				2	
	Brushy □	Grassy □			4		Auger C	Cuttings	4	
Cut Section		Fill Section			6			-	6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	12''		10				10	
Remarks:	Oil on com	pacted? Native mate	erial	_	12				12	
					14				14	
					16				16	
Submitted By:	BOB WIN	MER			18				18	
Title:	Engineeri	ng Technician III			20				20	
	Sieve Size 3" 2" 1.5" 1"	% Passing			Liquid Limit Plastic Index Specific Gravi Resistance Va	-	NP 74	- - -	Europoion D	
	3/4"	 			Cover Thickne	200	Stabilometer 5.3		Expansion P	ressure
	1/2"	100			THICKHE	288	3.3	_		
	3/8"	98			Sar	nd Equi	valent			
	No. 4	89				_	oisture, %	-		
	No. 10	66				sistivity	,			
	No. 16	54				Factor				
	No. 40	36			-		Classification	A-1-b		
	No. 50	31						-		
	No. 100	22								
	No. 200	15								
Remarks:										

Date Reported: Lab No.:	10/14/11 S11-06, R	- V-450-11			_					
E.A.:	73643	-	Job I	Description:	KINGSBU	JRY GR	RADE SR 207	MP: 0.00	TO 3.76	
Date Rec'd	9/22/11 PAKED	_ DICCDV		Station	"WD" 17/	1 : 00		Daysta	SD 207	
Samplers: WIMER	BAKER,	KIGSD I		Station Location fro	"WR" 174	++00 Lt.	6'	_ Route Ri	SR 207	
Sample No.:	22			County:	DOUGLA			- 10	-	
Sample Type:					Depth (ft)		Sample Location			PSI
RV ■	Sub □	l Chem □	DC 🗆	Other □					0	200
Vegetation:	None	Trees □ Shi	rubs 🗆		2				2	
_	Brushy	Grassy			4		Auger C	uttings	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:	Oil on DG,	no base material.			12				12	
					14				14	
					16				16	
Submitted By:	BOB WIN	MER			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. 50 No. 100 No. 200	96 96 94 87 73 64 44 36 23			1 F F	x avity Value ness Sand Equ Natural M Resistivity oH Factor	Ioisture, % y	A-1-b	Expansion P	ressure
Remarks:	Line Sampl	ing								

Date Reported: Lab No.:	10/14/11 S11-06, F	_ RV-490-11			_					
E.A.:	73643	_	Job D	escription:	KINGSBUR	Y GRA	ADE SR 207 I	MP: 0.00 T	TO 3.76	
Date Rec'd	10/04/11	_								
Samplers:	BAKER,	RIGSBY		Station	"WR" 179+			_ '	SR 207	
WIMER				Location fro		Lt.	4.5'	Rt.		
Sample No.:	31			County:	DOUGLAS					
Sample Type:	a. F				Depth (ft)	Sa	mple Location		. 1	PSI
RV ■	Sub [DC 🗆	Other	-				0	100
Vegetation:	None		Shrubs \square		2			•	2	
G + S + C -	Brushy ∟	l Grassy □	-		- 4		Auger Ci	uttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oi		Taken on Should	er □ 10''		8				8	
Gravel Depth (in) Remarks:	No servel	Oil Depth (in) base, possible oil c		_ 	10				10	
		base, possible oil c	oated geotes	Kille	- 12 14				12	
under the plantmix	•				- 14 16				14 16	
Submitted By:					18				18	
Title:					20				20	
					_ 20				2º	
	Sieve Size	% Passing			Liquid Limit	_	22	_		
	3"				Plastic Index		NP	-		
	2"				Specific Gravi	ty		-		
	1.5"				Resistance Val	lue _	71	_		
	1"				Cover		Stabilometer		Expansion Pa	ressure
	3/4"				Thickne	ss	6.3	_		
	1/2"	100								
	3/8"	99			San	ıd Equiv	alent			
	No. 4	96			Nat	ural Mo	isture, %			
	No. 10	86			Res	sistivity				
	No. 16	76			pН	Factor				
	No. 40	53			AA	SHTO	Classification	A-2-4(0)		
	No. 50	43								
	No. 100	26								
	No. 200	15								
Remarks:										

Date Reported: Lab No.:	10/14/11 S11-06, R	- V-447-11							
E.A.:	73643		Job I	Description:	KINGSBURY	GRADE SR 207	MP: 0.00 T	O 3.76	
Date Rec'd	9/15/11	_							
Samplers:	BAKER,	RIGSBY		Station	"WR" 184+0	0	Route	SR 207	
ALTAMIRANO	, WIMER	_		Location fro	m CL (ft)	Lt.	Rt.	10	
Sample No.:	23	_		County:	DOUGLAS				
Sample Type:					Depth (ft)	Sample Location			PSI
RV ■	Sub □	l Chem □	DC 🗆	Other \square	0			0	
Vegetation:	None	Trees □ Shr	ubs 🗆		2			2	
	Brushy	Grassy □			4	Auger C	Cuttings	4	
Cut Section		Fill Section			6			6	
Taken Through Oi	1	Taken on Shoulder			8			8	
Gravel Depth (in)	1	Oil Depth (in)		_	10			10	
Remarks:	Oil on nativ	ve material.			12			12	
					14			14	
					16			16	
Submitted By:	BOB WIN	MER			18			18	
Title:	Engineeri	ng Technician III			20			20	
	Sieve Size	% Passing			Liquid Limit	25	_		
	3"				Plastic Index	NP	_		
	2"				Specific Gravity		_		
	1.5"				Resistance Valu	e 73	_		
	1"				Cover	Stabilometer		Expansion Pr	ressure
	3/4"				Thickness	5.6	_		
	1/2"								
	3/8"				Sand	Equivalent			
	No. 4	100			Natu	ral Moisture, %			
	No. 10	85			Resis	stivity			
	No. 16	68			pH F	actor			
	No. 40	39			AAS	HTO Classification	A-1-b		
	No. 50	32							
	No. 100	20							
	No. 200	13							
Remarks:									

Date Reported: Lab No.:	10/14/11 S11-06, R	_ XV-459-11			_					
E.A.:	73643	_	Job I	Description:	KINGSBUR	Y GR	ADE SR 207	MP: 0.00 T	TO 3.76	
Date Rec'd	9/22/11			~ .		<u> </u>			CD AND	
Samplers:	BAKER,	RIGSBY		Station	"WR" 187+0		10.51	Route	SR 207	
Sample No.:	30			Location fro County:	DOUGLAS	Lt.	10.5'	- Rt.		
Sample Type:				<u> </u>	Depth (ft)	S	ample Location			PSI
RV ■	Sub 🗆	☐ Chem ☐	DC 🗆	Other \Box					0	200
Vegetation:	None	Trees □ Shr	ubs 🗆		2				2	
	Brushy \square	Grassy □			4		Auger C	Cuttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)	7''	Oil Depth (in)	6''	_	10				10	
Remarks:	Aggregate	base treated with oil.		_	12				12	
					14				14	
					16				16	
Submitted By:	PETE BA	KER			18				18	
Title:	Superviso	or 1			20				20	
	3" 2" 1.5" 1" 3/4" 1/2"	100			Liquid Limit Plastic Index Specific Gravi Resistance Val Cover Thickne	lue	NP 73 Stabilometer 5.2	- - -	Expansion P	ressure
	3/8"	99				nd Equi				
	No. 4	92			Nat	tural M	oisture, %	-		
	No. 10	72				sistivity				
	No. 16	59			-	Factor				
	No. 40	36			AA	SHTO	Classification	<u>A-1-b</u>		
	No. 50	28								
	No. 100	18								
	No. 200	12								
Remarks:	Line Samp	ling for roadway subg	rade test	iing.						

E.A.: 73643	PSI
Samplers: BAKER, RIGSBY Station "WR" 192+60 Route SR 207 Location from CL (ft) Lt. Rt. 12' Sample No.: 24 County: DOUGLAS Sample Type: Depth (ft) Sample Location RV ■ Sub □ Chem □ DC □ Other □ 0 Other □ Other □<	
Location from CL (ft) Lt. Rt. 12' Sample No.: 24 County: DOUGLAS Sample Type: Depth (ft) Sample Location RV ■ Sub □ Chem □ DC □ Other □ 0 Other □ Other □ <td< th=""><th></th></td<>	
Sample No.: 24 County: DOUGLAS Sample Type: Depth (ft) Sample Location RV ■ Sub □ Chem □ DC □ Other □ 0 0	PSI
Sample Type: RV ■ Sub □ Chem □ DC □ Other □ 0 CO	PSI
RV ■ Sub □ Chem □ DC □ Other □ 0	PSI
Vegetation: None ■ Trees □ Shrubs □ 2 2	;
	,
	j
	3
Gravel Depth (in) 6" Oil Depth (in) 6" 10	
Remarks: 12 12	
14	
16	.
Submitted By: PETE BAKER 18	;
Title: Supervisor 1 20 20-	
Sieve Size % Passing Liquid Limit 21	
3" Plastic Index NP	
2" Specific Gravity	
1.5" Resistance Value 73	
1" Cover Stabilometer Expansion	n Pressure
3/4" Thickness 5.2	
1/2"	
3/8" 100 Sand Equivalent	
No. 4 93 Natural Moisture, %	
No. 10 70 Resistivity	_
No. 16 57 pH Factor	<u> </u>
No. 40 35 AASHTO Classification A-1-b	<u> </u>
No. 50 29	_
No. 100 19	
No. 200 13	
Remarks: Line Sampling for roadway subgrade testing.	

Date Reported:	10/14/11	_								
Lab No.:	S11-06, R	RV-458-11			_					
E.A.:	73643	_	Job I	Description:	KINGSBUR	Y GR	ADE SR 207	MP: 0.00	ГО 3.76	
Date Rec'd	9/22/11	_								
Samplers:	BAKER,	RIGSBY		Station	"WR" 195+	60		Route	SR 207	
				Location fro		Lt.	9.5'	Rt		
Sample No.:	29			County:	DOUGLAS					
Sample Type:					Depth (ft)	S	ample Location			PSI
RV ■	Sub [DC 🗆	Other \square	<u> </u>				0	200
Vegetation:	None		ubs 🗆		2				2	
	Brushy	•			4		Auger C	Cuttings	4	
Cut Section □		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)	7''	Oil Depth (in)	7''	_	10				10	
Remarks:	Aggregate	base treated with oil.			12				12	
					14				14	
					16				16	
Submitted By:	PETE BA	AKER			18				18	
Title:	Superviso	or 1			20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4	100 98 93 86				lue ss ıd Equi	20 3 68 Stabilometer 6.8 valent oisture, %	- - - -	Expansion P	ressure
	No. 10	77				sistivity Factor				
	No. 16 No. 40	53			_	Factor	Classification	A_2 4(0)		
		44			AA	зпто	Classification	A-2-4(0)		
	No. 50	29								
	No. 100									
	No. 200	20								
Remarks:	Line Samp	ling for roadway subg	grade tes	ting.						

Date Reported: Lab No.: E.A.:	10/14/11 S11-06, R 73643	 RV-452-11	Job D	Description:	KINGSBURY GRADE SR 207 MP: 0.00 TO 3.76							
Date Rec'd	9/22/11	- DICCODY		G:	UMADU 200 . CO		ъ.	CD 207				
Samplers:	BAKER,	RIGSBY		Station	"WR" 200+60	T 4	_					
Sample No.:	25			Location fro County:	DOUGLAS	Lt	- Rt.					
Sample Type:				•	Depth (ft)	Sample Location			PSI			
RV ■	Sub [□ Chem □	DC 🗆	Other \Box		•		0	200			
Vegetation:	None	Trees □ Shr	ubs 🗆		2			2				
	Brushy \Box	l Grassy □			4	Auger C	uttings	4				
Cut Section	•	Fill Section			6			6				
Taken Through Oil		Taken on Shoulder			8			8				
Gravel Depth (in)	7''	Oil Depth (in)	6''		10			10				
Remarks:	Aggregate	base treated with oil.		_	12			12				
					14			14				
					16			16				
Submitted By:	PETE BA	AKER			18			18				
Title:	Superviso	or 1			20			20				
		1										
	Sieve Size	e % Passing			Liquid Limit	21	_					
	3"	 			Plastic Index	<u>NP</u>	_					
	2"	<u> </u>			Specific Gravity		_					
	1.5"	 			Resistance Value	72	-					
	1"	<u> </u>			Cover	Stabilometer		Expansion Pa	ressure			
	3/4"	100			Thickness	5.5	_					
	1/2"	100			G 15							
	3/8"	99				quivalent						
	No. 4	93				l Moisture, %						
	No. 10	73			Resistiv	•						
	No. 16	61			pH Fac		A 1 1					
	No. 40	38			AASH	TO Classification	A-1-D					
	No. 50	31										
	No. 100	21										
	No. 200	15										
Remarks:	Line Samp	ling for roadway subg	grade test	ting.								

Date Reported: Lab No.: E.A.:	10/14/11 S11-06, R 73643	_ RV-455-11	Description:	KINGSBURY GRADE SR 207 MP: 0.00 TO 3.76						
Date Rec'd	9/22/11	_	J00 1	rescription.	KINGSDUK	1 GK	ADE SK 201	1/11 . 0.00 1	10 3.70	
Samplers:	BAKER,	RIGSBY		Station	"WR" 205+6	60		Route	SR 207	
Sample No.:	28			Location fro County:	om CL (ft) DOUGLAS	Lt.	9.5	Rt.		
Sample Type:				•	Depth (ft)	S	ample Location			PSI
RV ■	Sub [☐ Chem ☐	DC □	Other \square	0				0	200
Vegetation:	None	Trees □ Shr	ubs 🗆		2				2	
	Brushy \square	l Grassy □			4		Auger C	Cuttings	4	
Cut Section □		Fill Section			6				6	
Taken Through Oi	l =	Taken on Shoulder			8				8	
Gravel Depth (in)	7''	Oil Depth (in)	7''	_	10				10	
Remarks:	Aggregate	base treated with oil.		_	12				12	
					14				14	
					16				16	
Submitted By:	PETE BA	AKER			18				18	
Title:	Superviso	or 1			20				20	
	Sieve Size	% Passing			Liquid Limit		21			
	3"	70 Tassing			Plastic Index		NP	_		
	2"	<u> </u>			Specific Gravity	**	Nr	_		
	1.5"				Resistance Valu	-	72	_		
	1"				Cover	ue	Stabilometer	_	Expansion P	raccura
	3/4"				Thicknes	:c	5.5		Lapansion 1	icssuic
	1/2"				Tillekiles	55		_		
	3/8"	100			Sano	d Equi	valent			
	No. 4	94				_	oisture, %			
	No. 10	71				istivity				
	No. 16	58				Factor				
	No. 40	37			-		Classification	A-1-b		
	No. 50	31			1 21 20	01110				
	No. 100	22								
	No. 200	16								
Remarks:	Line Samp	ling for roadway subg	grade tes	ting.						

Date Reported: Lab No.:	10/14/11 S11-06, RV-453-11				- -		N 0 00 TO	2.76	
E.A.: Date Rec'd	73643 9/22/11	-	Job L	Description:	KINGSBURY C	RADE SR 207	MP: 0.00 TO	3.76	
Samplers:	BAKER, RIGSBY		Station		"WR" 210+60	Route S	Route SR 207		
	26			Location fro		.t	Rt.	10'	
Sample No.:	20			County.		G 1 I:			DCI
Sample Type: RV ■	Sub □	☐ Chem ☐	DC 🗆	Other	Depth (ft)	Sample Location		0	PSI 200
Vegetation:	None		ubs \square	Other L	2			2	200
vegetation.		Grassy \square	uos 🗀		4	Auger C	uttings	4	
Cut Section	Drusny —	Fill Section			6	7 tuger C		6	
Taken Through Oil		Taken on Shoulder			8			8	
Gravel Depth (in)	7''	Oil Depth (in)	7''		10			10	
Remarks:		base treated with oil.	-	_	12			12	
	888				14			14	
					16			16	
Submitted By:	PETE BA	KER			18			18	
Title:	Superviso				20			20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2"	% Passing 100 97			Liquid Limit Plastic Index Specific Gravity Resistance Value Cover Thickness	NP 73 Stabilometer 5.2	- - - Ex	pansion Pr	ressure
	3/8"	95			Sand Ed	quivalent			
	No. 4	83			Natural	Moisture, %			
	No. 10	58			Resistiv	ity			
	No. 16	47			pH Fact				
	No. 40	28			AASHT	O Classification	A-1-b		
	No. 50	22							
	No. 100	14							
	No. 200	10							
Remarks:	Line Samp	ling for roadway subg	grade test	ing.					

Date Reported: Lab No.:	10/14/11 S11-06, R	_								
E.A.:	73643 9/22/11 BAKER, RIGSBY		Job Description:		KINGSBURY GRADE SR 207 MP: 0.00 TO 3.76					
Date Rec'd					HXXIDH 24.5. (0			D . CD 407		
Samplers:	DAKEK,	KIGSDI		Station Location fro	"WR" 215+0	Lt.	10'	Route Rt.	SR 207	
Sample No.:	27			County:	DOUGLAS	Lı.		<u> </u>		
Sample Type:				· · · · · ·	Depth (ft)	S	Sample Location			PSI
RV ■	Sub 🗆	☐ Chem ☐	DC 🗆	Other \Box			_		0	200
Vegetation:	None	Trees □ Shr	ubs 🗆		2				2	
	Brushy \square	Grassy □			4		Auger C	uttings	4	
Cut Section		Fill Section			6				6	
Taken Through Oil		Taken on Shoulder			8				8	
Gravel Depth (in)	7''	Oil Depth (in)	7''	_	10				10	
Remarks:	Aggregate	base treated with oil.		_	12				12	
					14				14	
					16				16	
Submitted By:	PETE BA	KER			18				18	
Title:	Superviso	or 1			20				20	
	Sieve Size 3" 2" 1.5" 1" 3/4" 1/2" 3/8" No. 4 No. 10	100 96 79			Nati Res	ex NP ravity Value 71 Stabilometer kness 5.8 Sand Equivalent Natural Moisture, % Resistivity		Expansion Pr		ressure
	No. 16	68			-	Factor	G1 161 1			
	No. 40	46			AA	SHTO	Classification	A-1-b		
	No. 50	39								
	No. 100	27								
Remarks:	No. 200 Line Samp	19	rade test	ing.						
-										