

EXHIBIT B - CORE DATA

Lane Abbreviations:	Center Turn Lane = Cntr Trn	
Location Abbreviations:	Gutter Pan = GP Centerline = CL WestBound = WB SouthBound = SB	Right/Left /Between Wheel Path = RWP/LWP/BWP EastBound = EB NorthBound = NB
Core Abbreviations:	Stripped = STRP Broke = BRK Roadmix = RM Plantmix Bituminous Surface = PBS Light= LT Heavy = HVY Plantmix Bituminous Base = PBB	Delaminated = DELM Bottom = BTM Roadbed Modification = RBM Cement Treated Base = CTB Medium = MED Stripped and Fell Apart = STRP&FA

MATERIALS DIVISION CORE DATA SHEET
Limits listed are in County Cumulative Miles
SR 373 NY -0 To 16.31

JEN TO RBD 11/05/2003. CORES THROWN AWAY 11/05/2003.

ion	Lane	Location Remarks	Total Depth (in)	PBS Depth (in)	Core Size (in)	Core Condition	
	No						
	Shoulder		7.00	7.00	4	LT STRP FM 0.75" TO 5.75" / BRK @ 2.75"	
	Lane 1	RWP	6.00	6.00	4	BRK @ 3"	
	Lane 1	NEAR CL	8.50	8.50	4	BRK @ 3" & 5.75"	
	Shoulder		5.75	5.75	4		
	Lane 1	RWP	5.50	5.50	4	HVV STRP FM 4" TO BTM	
	Lane 1	NEAR CL	5.75	5.75	4	HVV STRP FM 2" TO BTM	
	Shoulder		6.50	6.50	4	BRK @ 3.38"	
	Lane 1	RWP	4.75	4.75	4		
	Lane 1	NEAR CL	7.00	7.00	4	BRK @ 5.38" / MED STRP FM 4.50" TO BTM	
	Shoulder	TAKEN ON TRANS	9.75	9.75	4	DELM @ 6.50" / LT-MED STRP FM 5.50" TO BTM	
	Lane 1	RWP	8.50	8.50	4	BRK @ 6"	
	Lane 1	NEAR CL	9.00	9.00	4	BRK @ 5.75"	
	Shoulder		8.75	8.75	4	BRK @ 6.25" / HVY STRP FM 5" TO BTM	
	Lane 1	RWP	7.50	7.50	4	BRK @ 2" & 6.50"	
	Lane 1	NEAR CL	8.75	8.75	4	BRK @ 5.50"	
	Shoulder		6.00	6.00	4		
	Shoulder		6.25	6.25	4		
	Lane 1	RWP	8.00	8.00	4	BRK @ 3" & 5"	
	Lane 1	NEAR CL / TAKEN ON TRANS	8.50	8.50	4	LT-MED STRP FM 1" TO 4.50" / STRP&FA FM 4.50" TO 6" / MED STRP FM 6" TO BTM	
	Shoulder	TAKEN ON TRANS	8.50	8.50	4	LT STRP FM TOP TO 6" / BRK @ 6" / HVY STRP FM 6" TO BTM	

MATERIALS DIVISION CORE DATA SHEET Limits listed are in County Cumulative Miles SR 373 NY -0 To 16.31 (continued)										
21	4.50	8.50	RT	NB	Lane 1	RWP	8.75	8.75	4	BRK @ 6.75" / HVY STRP FM 4.50" TO BTM
22	5.50	2.33	RT	NB	Lane 1	NEAR CL	7.50	7.50	4	BRK @ 6" / HVY STRP FM 4" TO BTM
23	6.50	11.33	RT	NB	Shoulder		9.25	9.25	4	BRK @ 5" / MED STRP FM 5" TO BTM
24	7.50	9.33	RT	NB	Lane 1	RWP	8.63	8.63	4	BRK @ 4.50" / STRP&FA FM 4.50" TO BTM
25	8.50	2.67	RT	NB	Lane 1	NEAR CL / TAKEN ON TRANS	8.00	8.00	4	BRK @ 3.50" / STRP&FA FM 3" TO BTM
26	9.50	11.25	RT	NB	Shoulder		9.50	9.50	4	
27	10.50	9.17	RT	NB	Lane 1	RWP	9.00	9.00	4	HVY STRP FM 4.50" TO 6" / BRK @ 6"
28	11.50	1.42	RT	NB	Lane 1	NEAR CL	6.25	6.25	4	
29	12.50	11.58	RT	NB	Shoulder		10.25	10.25	4	BRK @ 7"
30	13.50	9.42	RT	NB	Lane 1	RWP	10.00	10.00	4	BRK @ 6.75"
31	14.50	2.08	RT	NB	Lane 1	NEAR CL	7.75	7.75	4	
32	15.50	11.58	RT	NB	Shoulder		9.00	9.00	4	DELM @ 5" / LT-MED STRP FM 3" TO BTM

MATERIALS DIVISION CORE DATA SHEET
Limits listed are in County Cumulative Miles
SR 447 WA-15.80 To 32

Notes: CORES TO RBD ON 12/09/2004

Core No	County	Cum Mile	Distance to CL (ft)	Side	Direction	Lane		Location Remarks	Total Depth (in)	PBS Depth (in)	Core Size (in)	Core Condition
						No						
1		16.00	9.17	RT	NB	Lane 1		RWP	7.00	7.00	4	LT STRP FM TOP TO BTM
2		17.00	2.00	RT	NB	Lane 1		NEAR C/L	5.00	5.00	4	
3		18.00	12.00	RT	NB	Shoulder			4.50	4.50	4	LT STRP FM 0.75" TO BTM
4		19.00	8.42	RT	NB	Lane 1		RWP	6.00	6.00	4	
5		20.00	1.67	RT	NB	Lane 1		NEAR C/L	5.00	5.00	4	LT STRP FM 1.00" TO BTM
6		21.00	12.00	RT	NB	Shoulder			4.00	4.00	4	LT STRP FM TOP TO BTM
7		22.00	9.83	RT	NB	Lane 1		RWP	9.50	9.50	4	LT STRP FM 1.25" TO BTM
8		23.00	3.25	RT	NB	Lane 1		NEAR C/L	7.88	7.88	4	LT STRP FM 5.50" TO BTM
9		24.00	11.50	RT	NB	Shoulder			8.00	8.00	4	LT STRP FM TOP TO 3.88" / STRP&FA FM 3.88" TO BTM
10		25.00	9.00	RT	NB	Lane 1		RWP	6.50	6.50	4	LT STRP FM TOP TO BTM
11		26.00	2.00	RT	NB	Lane 1		NEAR C/L	7.63	7.63	4	LT STRP FM 0.50" TO BTM
12		27.00	12.00	RT	NB	Shoulder			4.50	4.50	4	LT STRP FM TOP TO BTM
13		28.00	9.58	RT	NB	Lane 1		RWP	7.75	7.75	4	LT STRP FM 0.50" TO BTM
14		29.00	1.67	RT	NB	Lane 1		NEAR C/L	4.88	4.88	4	LT STRP FM 1.50" TO BTM
15		30.00	11.67	RT	NB	Shoulder			4.00	4.00	4	LT TO MED STRP FM TOP TO BTM
16		31.00	8.83	RT	NB	Lane 1		RWP	6.63	6.63	4	LT STRP FM TOP TO BTM
17		32.00	1.67	RT	NB	Lane 1		NEAR C/L	6.75	6.75	4	LT STRP FM 1.00" TO BTM
18		31.50	11.67	LT	SB	Shoulder			4.88	4.88	4	LT TO MED STRP FM TOP TO BTM
19		30.50	8.00	LT	SB	Lane 1		RWP	5.25	5.25	4	LT STRP FM 1.00" TO BTM
20		29.50	10.00	LT	SB	Lane 1		NEAR C/L	5.50	5.50	4	LT STRP FM 1.00" TO 3.25" / HVY STRP FM 3.25" TO BTM
21		28.50	11.50	LT	SB	Shoulder			6.75	6.75	4	LT STRP FM TOP TO BTM
22		27.50	10.00	LT	SB	Lane 1		RWP	7.00	7.00	4	LT STRP FM TOP TO BTM
23		26.50	2.17	LT	SB	Lane 1		NEAR C/L	7.00	7.00	4	LT STRP FM TOP TO BTM
24		25.50	12.58	LT	SB	Shoulder			6.50	6.50	4	DELM @ 4.38" / LT STRP FM TOP TO 4.00" / HVY STRP FM 4.00" TO BTM

MATERIALS DIVISION CORE DATA SHEET
Limits listed are in County Cumulative Miles
SR 447 WA-15.80 To 32 (continued)

9.00	LT	SB	Lane 1	RWP	5.75	5.75	4	LT STRP FM TOP TO BTM
1.75	LT	SB	Lane 1	NEAR C/L	7.25	7.25	4	LT TO MED STRP FM TOP TO BTM
3.00	LT	SB	Shoulder		10.50	10.50	4	BRK @ 7.63" / LT TO MED STRP FM TOP TO 7.25" / HVY STRP FM 7.25" TO BTM
3.00	LT	SB	Lane 1	RWP	10.00	10.00	4	LT STRP FM 3.00" TO BTM
2.83	LT	SB	Lane 1	NEAR C/L	6.00	6.00	4	LT STRP FM 1.25" TO BTM
0.17	LT	SB	Lane 1	RWP	6.50	6.50	4	LT STRP FM 2.50" TO BTM
9.00	LT	SB	Lane 1	RWP	7.25	7.25	4	LT STRP FM TOP TO BTM
2.00	LT	SB	Lane 1	NEAR C/L	6.25	6.25	4	LT STRP FM TOP TO BTM
1.83	LT	SB	Shoulder		7.00	7.00	4	LT STRP FM TOP TO BTM

MATERIALS DIVISION CORE DATA SHEET
Limits listed are in County Cumulative Miles
SR 757 DO-0 to 3.19

Notes:

Core No	County	Distance to CL (ft)	Side	Direction	Lane		Location Remarks	Total Depth (in)	PBS Depth (in)	Core Size (in)	Core Condition
					No						
1	0.20	11.33	RT	EB	Shoulder			8.13	8.13	4	
2	0.34	8.33	RT	EB	Lane 1		RWP / STRUCTURE # B - 474	5.50	5.50	4	
3	1.00	8.42	RT	EB	Lane 1		RWP	4.88	4.88	4	
4	1.12	9.00	RT	EB	Lane 1		RWP / STRUCTURE # B - 475	5.38	5.38	4	
5	1.34	7.58	RT	EB	Lane 1		RWP / STRUCTURE # B - 476	5.75	5.75	4	
6	2.00	0.83	RT	EB	Lane 1		NEAR CL	5.50	5.50	4	
7	2.10	7.17	RT	EB	Lane 1		RWP / STRUCTURE # B - 477	5.75	5.75	4	DELM @ 3.50"
8	3.00	10.83	RT	EB	Shoulder			5.50	5.50	4	
9	2.50	10.67	LT	WB	Shoulder			5.38	5.38	4	
10	2.12	7.00	LT	WB	Lane 1		RWP / STRUCTURE # B - 477	6.00	6.00	4	
11	1.50	7.75	LT	WB	Lane 1		RWP	4.75	4.75	4	
12	1.35	7.42	LT	WB	Lane 1		RWP / STRUCTURE # B - 476	5.88	5.88	4	
13	1.12	9.00	LT	WB	Lane 1		RWP / STRUCTURE # B - 475	5.75	5.75	4	
14	0.50	0.67	LT	WB	Lane 1		NEAR CL	5.38	5.38	4	
15	0.35	8.25	LT	WB	Lane 1		RWP / STRUCTURE # B - 474	5.63	5.63	4	DELM @ 3.25" / MED STRP FM 2.00" TO 5.63"

MATERIALS DIVISION CORE DATA SHEET
Limits listed are in County Cumulative Miles
US 50 LA-35.98 to 44.56

Notes:

Core No	County	Cum Mile	Distance		Side	Direction	Lane		Location Remarks	Total Depth (in)	PBS Depth (in)	Core Size (in)	Core Condition
				to CL (ft)			No						
1		36.00	15.00		RT	EB	Lane 1		SHOULDER	13.50	13.50	4	DELM @ 8.50" & 11.25" / MED TO HVY STRP FM 8.00" TO BTM
2		37.00	9.75		RT	EB	Lane 1		RWP	10.50	10.50	4	STRP&FA FM 4.25" TO BTM
3		38.00	0.50		RT	EB	Lane 1		NEAR CL	10.50	10.50	4	DELM @ 5.88" & 8.75" / LT TO MED STRP FM 3.00" TO 8.75" / STRP&FA FM 6.50" TO BTM
4		39.00	14.58		RT	EB	Lane 1		SHOULDER	10.25	10.25	4	STRP&FA FM 3.75" TO 4.75" / LT STRP FM 4.75" TO 6.50" / STRP&FA FM 6.50" TO BTM
5		40.00	9.25		RT	EB	Lane 1		RWP	10.00	10.00	4	DELM @ 4.13" / LT STRP FM 3.00" TO 4.00" / HVY STRP FM 4.00" TO 6.50" / STRP&FA FM 6.50" TO BTM
6		41.00	1.08		RT	EB	Lane 1		NEAR CL	10.25	10.25	4	STRP&FA FM 7.00" TO BTM
7		42.00	14.67		RT	EB	Lane 1		SHOULDER	10.50	10.50	4	DELM @ 1.00" & 4.50" / LT TO HVY STRP FM 4.25" TO 8.00" / STRP&FA FM 8.00" TO BTM
8		43.00	9.33		RT	EB	Lane 1		RWP	10.00	10.00	4	STRP&FA FM 2.00" TO 3.25" / LT TO HVY STRP FM 3.25" TO BTM
9		44.00	1.17		RT	EB	Lane 1		NEAR CL	11.00	11.00	4	DELM @ 4.00" & 4.75" / LT TO MED STRP FM 1.25" TO BTM
10		44.50	1.33		LT	WB	Lane 1		NEAR CL	11.00	11.00	4	LT STRP FM 3.25" TO 7.50" / STRP&FA FM 7.50" TO BTM
11		43.50	15.00		LT	WB	Lane 1		SHOULDER	10.50	10.50	4	HVY STRP FM 4.00" TO BTM

SERIALS DIVISION CORE DATA SHEET
ts listed are in County Cumulative Miles
S 50 LA-35.98 to 44.56 (continued)

RWP	9.50	9.50	4	LT TO MED STRP FM 2.50" TO 5.75" / STRP&FA FM 5.75" TO BTM
IP	10.00	10.00	4	LT STRP FM 2.88" TO 4.00" / STRP&FA FM 4.00" TO BTM
Boulder	10.25	10.25	4	DELM @ 4.25" / LT STRP FM 3.25" TO BTM
IP	10.50	10.50	4	LT STRP FM 3.00" TO 8.00" / STRP&FA FM 8.00" TO BTM
AR CL	10.13	10.13	4	DELM @ 6.38" / LT TO MED STRP FM 6.25" TO BTM
Boulder	10.00	10.00	4	DELM @ 8.50" / LT STRP FM 5.25" TO BTM
IP	13.00	13.00	4	DELM @ 9.75" / LT TO MED STRP FM TOP TO 3.25" / STRP&FA FM 3.25" TO 5.25" / MED TO HVY STRP FM 5.25" TO BTM

MATERIALS DIVISION CORE DATA SHEET
Limits listed are in County Cumulative Miles
US 50 LA-44.56 to 57.00

Notes:

Core No	County	Cum Mile	Distance to CL (ft)	Side	Direction	Lane	Location Remarks	Total (in)	PBS Depth (in)	Core Size		Core Condition
										(in)	(in)	
1		52.00	14.58	RT	EB	Lane 1	SHOULDER	11.00	11.00	4		STRP&FA FM 3.75" TO 8.00" / LT STRP FM 8.00" TO BTM
2		53.00	9.25	RT	EB	Lane 1	RWP	11.50	11.50	4		LT TO MED STRP FM 2.50" TO 6.38" / STRP&FA FM 6.38" TO BTM
3		53.50	14.83	LT	WB	Lane 1	SHOULDER	11.00	11.00	4		STRP&FA FM 3.25" TO 4.25" / MED STRP FM 4.25" TO 7.00" / STRP&FA FM 7.00" TO 8.50" / MED STRP FM 8.50" TO BTM
4		52.50	10.00	LT	WB	Lane 1	RWP	12.00	12.00	4		DELM @ 2.25" & 4.50" / LT TO HVY STRP FM 2.25" TO BTM

MATERIALS DIVISION CORE DATA SHEET
Limits listed are in County Cumulative Miles
US93 EL-0.00 to 11.80

Notes:

Core No	County	Distance to CL (ft)	Side	Direction	Lane	Location Remarks	Total (in)	PBS Depth (in)	Core Size (in)	Core Condition
1	0.00	12.42	RT	NB	Lane 1	SHOULDER	11.75	7.75	4	LT STRP FM TOP TO 2.00" / RBM - 4.00"
2	1.00	9.00	RT	NB	Lane 1	RWP	4.75	4.75	4	
3	2.00	1.17	RT	NB	Lane 1	NEAR CL	5.38	5.38	4	
4	3.00	12.25	RT	NB	Lane 1	SHOULDER	4.88	4.88	4	
5	4.00	9.25	RT	NB	Lane 1	RWP	5.63	5.63	4	
6	5.00	1.00	RT	NB	Lane 1	NEAR CL	6.25	6.25	4	DELM @ 4.13"
7	6.00	12.25	RT	NB	Lane 1	SHOULDER	6.50	6.50	4	
8	7.00	9.00	RT	NB	Lane 1	RWP	5.63	5.63	4	
9	8.00	1.17	RT	NB	Lane 1	NEAR CL	5.88	5.88	4	
10	9.00	12.17	RT	NB	Lane 1	SHOULDER	5.50	5.50	4	
11	10.00	9.00	RT	NB	Lane 1	RWP	11.00	6.00	4	RBM - 5.00"
12	11.00	1.17	RT	NB	Lane 1	NEAR CL	6.25	6.25	4	
13	11.50	12.00	LT	SB	Lane 1	SHOULDER	5.75	5.75	4	
14	10.50	12.33	LT	SB	Lane 1	SHOULDER	5.75	5.75	4	
15	9.50	8.67	LT	SB	Lane 1	RWP	9.13	5.88	4	RBM - 3.25"
16	8.50	1.25	LT	SB	Lane 1	NEAR CL	5.63	5.63	4	
17	7.50	12.42	LT	SB	Lane 1	SHOULDER	6.25	6.25	4	
18	6.50	8.83	LT	SB	Lane 1	RWP	12.00	5.50	4	RBM - 6.50"
19	5.50	1.33	LT	SB	Lane 1	NEAR CL	6.00	6.00	4	
20	4.50	12.00	LT	SB	Lane 1	SHOULDER	5.25	5.25	4	
21	3.50	8.83	LT	SB	Lane 1	RWP	5.88	5.88	4	
22	2.50	1.00	LT	SB	Lane 1	NEAR CL	5.75	5.75	4	
23	1.50	12.00	LT	SB	Lane 1	SHOULDER	5.88	5.88	4	
24	0.50	9.00	LT	SB	Lane 1	RWP	5.38	5.38	4	

MATERIALS DIVISION CORE DATA SHEET
Limits listed are in County Cumulative Miles
US93 WP-112.80 to 116.71

Notes:

Core No	County Cum	Distance to CL (ft)	Side	Direction	Lane	Location Remarks	Total (in)	PBS (in)	Core (in)	Core Condition
1	113.00	12.33	RT	NB	Lane 1	SHOULDER	5.63	5.63	4	DELM @ 3.25" / LT STRP FM 3.25" TO BTM
2	114.00	8.67	RT	NB	Lane 1	RWP	7.00	5.00	4	RBM - 2.00"
3	115.00	1.17	RT	NB	Lane 1	NEAR CL	5.75	5.75	4	
4	116.00	12.50	RT	NB	Lane 1	SHOULDER	4.88	4.88	4	
5	116.50	9.25	LT	SB	Lane 1	RWP	5.75	5.75	4	
6	115.50	1.33	LT	SB	Lane 1	NEAR CL	5.50	5.50	4	
7	114.50	12.42	LT	SB	Lane 1	SHOULDER	5.38	5.38	4	
8	113.50	8.33	LT	SB	Lane 1	RWP	4.75	4.75	4	

CCV

D0-124-08 - 02/04/08

EXHIBIT C - LOCATION DATA SHEET

Cold In-Place Recycle Surface Treatment

Project Description: Contractor to furnish equipment, materials, and labor for Cold in-Place Recycle surface treatment at the following locations:

District 2:

SR 757	Douglas County
Cumulative County Mileposts:	DO-0.00 to DO-3.18
6.36 Lane miles	5 working days
SR 447	Washoe County
Cumulative County Mileposts:	WA-25.20 to WA-35.40
20.40 Lane miles	13 working days

District 3:

US 50	Lander County
Cumulative County Mileposts:	LA-35.62 to LA-44.84
18.44 Lane miles	12 working days
US 50	Lander County
Cumulative County Mileposts:	LA-52.00 to LA-53.50
3.00 Lane miles	5 working days

District 1:

SR 373	Nye County
Cumulative County Mileposts:	NY-0.00 to NY-16.30
32.60 Lane miles	20 working days

District 3:

US 93	Elko and White Pine County
Cumulative County Mileposts:	EL-11.89 to EL-0.00=WP-116.69 to WP-112.76
31.64 Lane miles	20 working days*

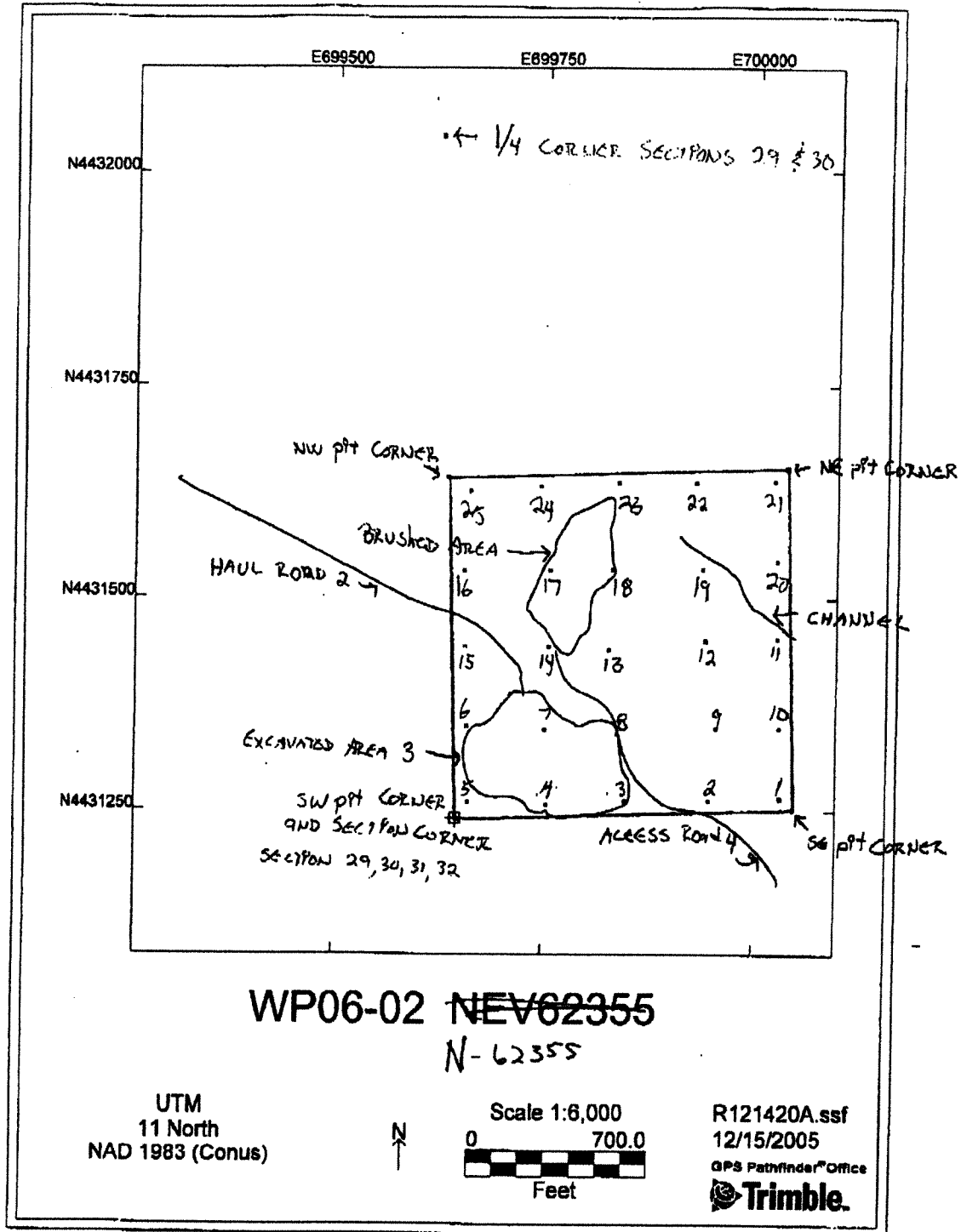
* An additional 10 days will be allowed for paving operations.

Exhibit D - Material Source Data

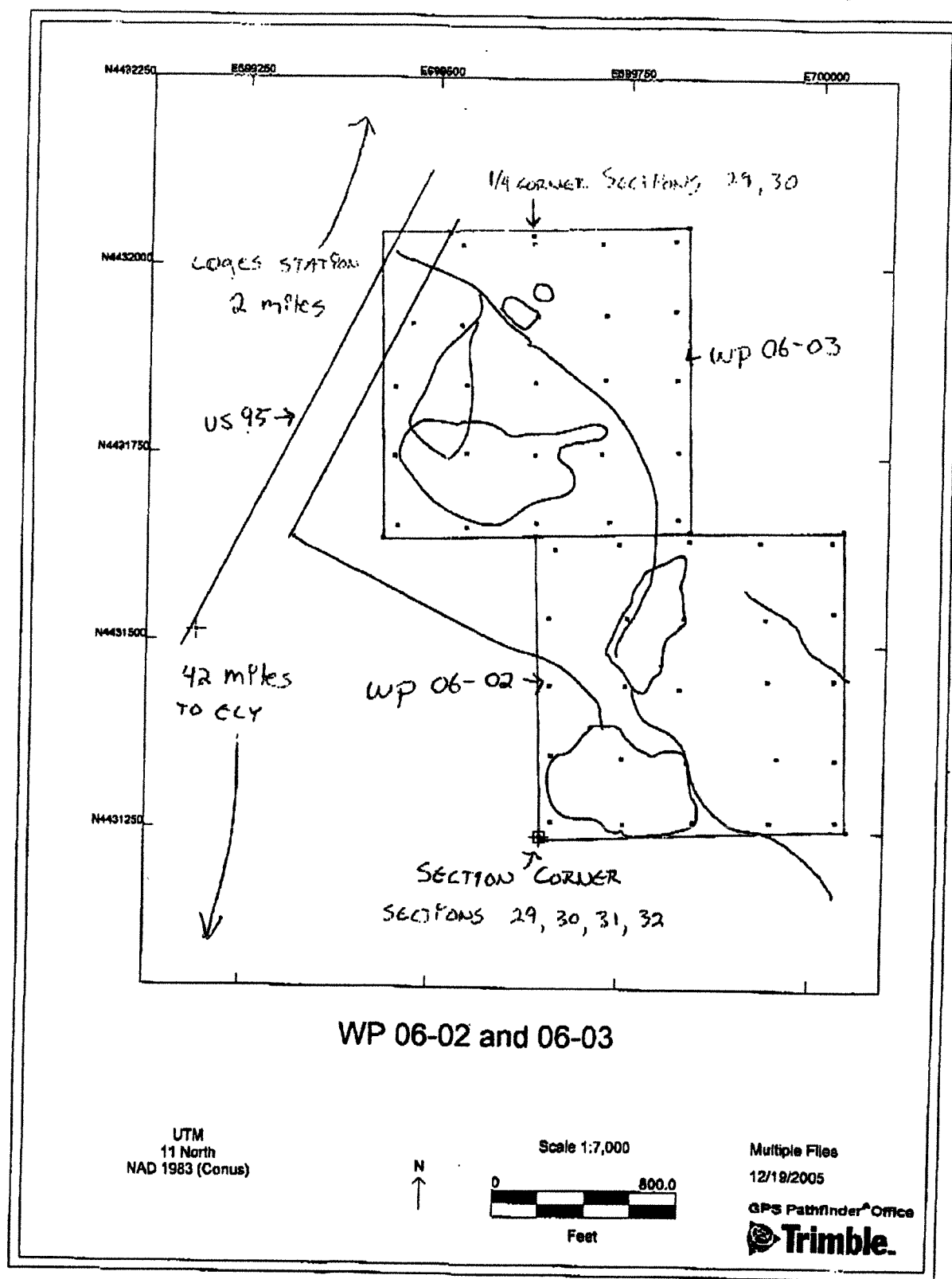
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TO LAB 12-19-05



70 LAG 12 18-05



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
1263 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

LAB NUMBER:	AO05-34	T-2 DENSE GRADE BITUMEN RATIO:	8.0 PG 64-28NV
EA NUMBER:	73110	9.5mm OPEN GRADE BITUMEN RATIO:	7.5 PG 64-28NV
PROJECT NUMBER:	8P-PE-0000(002)		
COUNTY:	WHITE PINE		
DATE AGG. SAMPLED:	12/15/05		
DATE AGG. RECEIVED:	02/08/06		
REPORT DATE:	02/23/06		
SAMPLED BY:	FIELD CREW		
CHECKED BY:	SJH & RP		
TYPE MATERIAL:	PIT AGGREGATE (TYPE 2 AND 9.5mm OPEN GRADE)		
SOURCE OF SAMPLE(S):	WP 06-02 (US 93, MILEPOST WP 108.1) SECTION 29, T25N, R65E		
MINERAL FILLER:	1.5% HYDRATED LIME WET-CURED (MARINATED) 48 HOURS		
TYPE ASPHALT:			

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
 1263 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

A005-34

73110

MAX. DENSITY, Mg/m³:	2.419						STANDARD TYPE 2 SPECS:
MAX. DENSITY, PCF:	150.9						
DENSITY, Mg/m³ :	2.281	2.298	2.313	2.336	2.357		
DENSITY, PCF:	142.3	143.4	144.3	145.8	147.1		
BITUMEN RATIO:	5.0	5.5	6.0	6.5	7.0		
HVEEM VALUE:	48	48	45	37	20		35 MIN
% AIR VOIDS:	7.1	5.7	4.4	2.8	1.3		3 - 6

SIEVE ANALYSIS RESULTS:
(PERCENT PASSING)

BIN PERCENTAGES:	35	35	30	100		STANDARD TYPE 2 SPECS:
	19mm AGG:	12.5mm AGG:	CRUSHER FINES:	AS COMBINED & TESTED:		
SIEVE SIZE:						
25 mm (1"):	100.0	100.0	100.0	100.0		100
19 mm (3/4"):	96.2	100.0	100.0	98.7		90 - 100
12.5 mm (1/2"):	80.9	100.0	100.0	86.3		
9.5 mm (3/8"):	28.1	99.2	100.0	74.6		83 - 85
4.75 mm (NO. 4):	3.6	65.2	97.4	53.3		45 - 63
2.36 mm (NO. 8):	0.9	48.0	66.0	35.6		
2.00 mm (NO. 10):	0.9	40.4	57.6	31.7		30 - 44
1.18 mm (NO. 16):	0.8	31.3	44.2	24.5		
600 µm (NO. 30):	0.7	23.1	33.0	18.2		
425 µm (NO. 40):	0.7	20.0	29.0	15.9		12 - 22
300 µm (NO. 50):	0.7	17.5	25.8	14.1		
150 µm (NO. 100):	0.7	12.5	22.5	11.5		

N.D.O.T. 027-030 REV. 07/92

PAGE 2 OF 4

E.A. NO.: 73110
 PIT NO.: WP 06-02
 DATE SAMPLED: 12/15/05
 LOCATION: Sec. 29, T.25N., R.65E.
 ROUTE, COUNTY, MILEPOST: US 93, WP 108.1
 % OF WEAR (500 REVS): 27.0
 SODIUM SOUNDNESS
 CONCRETE: 10 11 10
 PLANT MIX: 8 9 10

LAB NO.: AO-34-05
 DATE REPORTED: 02/10/06
 MATERIAL: PIT AGGREGATE
 SP. GR. (% OF WEAR): 2.59
 REMARKS:

COARSE FINES
 10 11 10
 8 9 10

HOLE NUMBER		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	122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NO.: AO-34-05
 DATE REPORTED: 02/10/06
 SERIAL: PIT AGGREGATE
 GR. (% OF WEAR): 2.59
 LAPS:

	16	17	17	13	18	19OB	19	19
	BTM	0-18	BTM	0-19	BTM	0-1	1-20	BTM
	100	100	100	100	100	100	100	100
0		90		95			92	
7	63	90	65	88	69	90	91	74
9		83		79			87	
0	40	77	52	70	44	88	82	66
7		68		58			73	
2		63		52			68	
3	18	51	34	40	19	78	58	37
3	14	41	28	31	14	72	47	27
3		37		27			42	
3	10	32	18	24	11	66	35	17
3		31		22			33	
3		28		20			30	
3	6	22	14	14	7	51	24	11
3		259		260			262	
3	26	26	28	24	22	22	26	24
3	7	NP	NP	NP	NP	NP	6	5
3		19					19	

PAGE 4 OF 4

LAB NO.: AO-34-05
 DATE REPORTED: 02/10/06
 MATERIAL: PIT AGGREGATE
 SP. GR. (% OF WEAR): 2.59
 REMARKS:

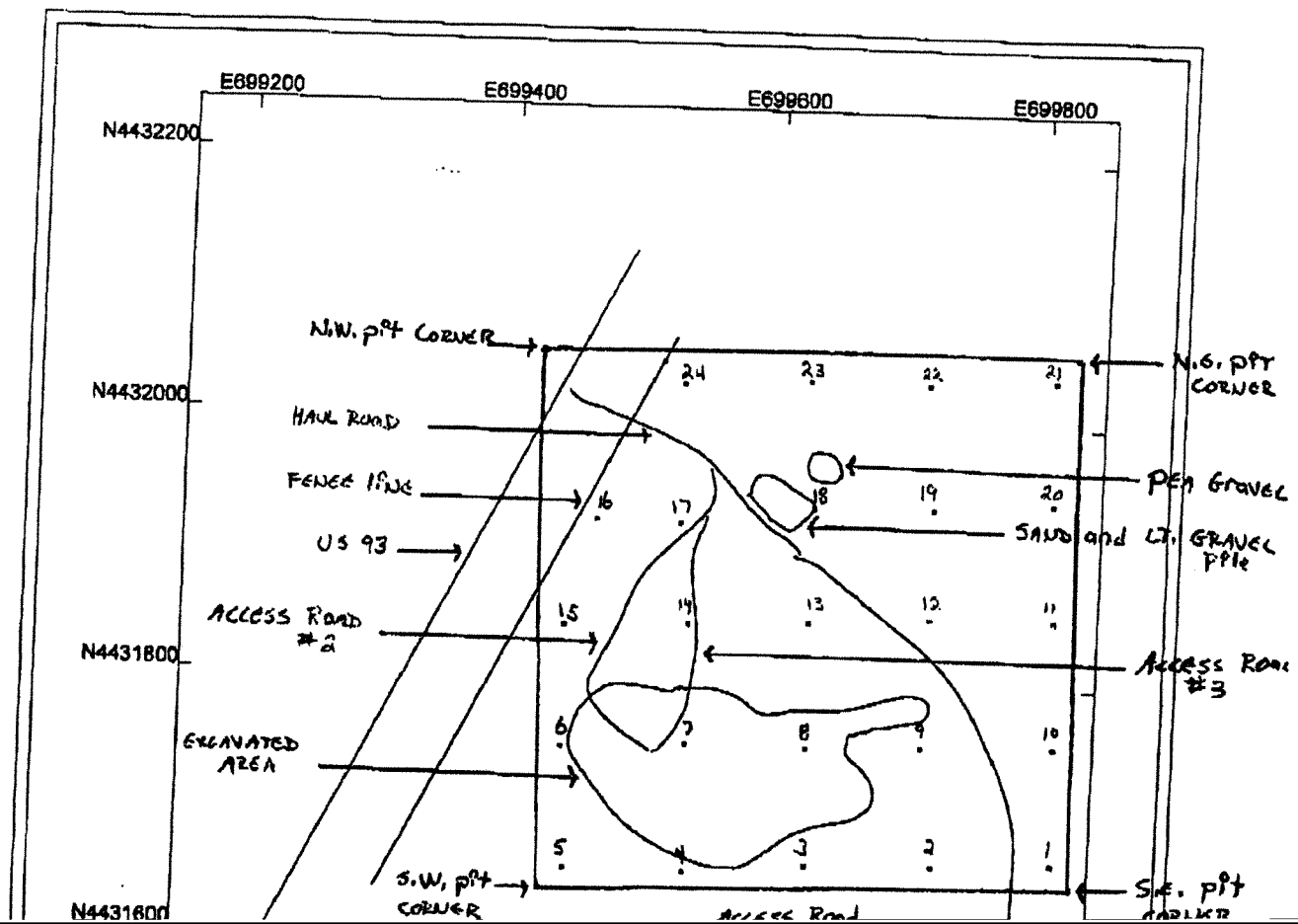
E.A. NO.: 73110
 PIT NO.: WP 06-02
 DATE SAMPLED: 12/15/05
 LOCATION: Sec. 29, T.25N., R.65E.
 ROUTE, COUNTY, MILEPOST: US 93, WP 108.1
 % OF WEAR (500 REVS): 27.0

SODIUM SOUNDNESS
 CONCRETE: 10
 PLANT MIX: 8
 COARSE FINES
 10 11 10

HOLE NUMBER	20 OB	20	21 OB	21	22 OB	22	23 OB	23	24 OB	24	25 OB	25
SAMPLE DEPTH (FEET)	0-1	1-20	BTM	0-1	1-19	BTM	0-1	1-19	BTM	0-1	1-18	BTM
SAMPLE DEPTH (METERS)												
% PASS. 75mm (3") SIEVE	100	100	100	100	100	100	100	100	100	100	100	100
% PASS. 50mm (2") SIEVE	96		88		85		96		91		97	
% PASS. 37.5mm (1 1/2") SIEVE	100	94	88	87	99	85	94	100	97	91	100	97
% PASS. 25mm (1") SIEVE		91		79		82		82		88		91
% PASS. 19mm (3/4") SIEVE	94	87	77	84	91	78	69	95	95	83	92	85
% PASS. 12.5mm (1/2") SIEVE		81		68		70		73		77		76
% PASS. 9.5mm (3/8") SIEVE		75		63		66		69		71		70
% PASS. 4.75mm (#4) SIEVE	80	60	50	80	72	55	40	82	60	29	50	68
% PASS. 2mm (#10) SIEVE	71	46	35	69	61	45	30	73	43	22	68	44
% PASS. 1.18mm (#16) SIEVE		38		34		39		34		38		44
% PASS. 425µm (#40) SIEVE	58	29	19	53	27	20	19	60	25	16	55	30
% PASS. 300µm (#50) SIEVE		27		25		27		23		28		37
% PASS. 150µm (#100) SIEVE		24		21		23		20		24		33
% PASS. 75µm (#200) SIEVE	42	19	10	39	17	12	10	46	16	11	40	24
SPECIFIC GRAVITY		2.60		2.60		2.62		2.62		2.60		2.59
LIQUID LIMIT	22	20	20	27	37	30	20	19	27	25	22	26
PLASTICITY INDEX	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
SAND EQUIVALENT												
REMARKS:												

N.D.O.T. 027-030 REV. 07/92

TO LAB 12-1-05



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
1263 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

LAB NUMBER:

A005-33

T-2 DENSE GRADE BITUMEN RATIO:

6.2 PG 64-28NV

EA NUMBER:

73110

9.5mm OPEN GRADE BITUMEN RATIO:

7.7 PG 64-28NV

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
1203 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

AO05-33

73110

MAX. DENSITY, Mg/m³:			2.426	2.410		
MAX. DENSITY, PCF:			151.4	150.4		
DENSITY, Mg/m³:	2.275	2.296	2.315	2.338	2.341	
DENSITY, PCF:	142.0	143.3	144.5	145.8	146.1	
BITUMEN RATIO:	5.0	5.5	6.0	6.5	7.0	
HVEEM VALUE:	49	47	48	36	27	
% AIR VOIDS:	7.5	6.0	4.6	3.1	2.2	
						STANDARD TYPE 2 SPECS: 35 MIN 3 - 6

SIEVE ANALYSIS RESULTS:
(PERCENT PASSING)

BIN PERCENTAGES:	30	40	30	100	
			CRUSHER	AS	STANDARD
	10mm AGG:	9.5mm AGG:	FINES:	RECEIVED:	*AS COMBINED & TESTED:
SIEVE SIZE:					TYPE 2 SPECS:
25 mm (1"):	100.0	100.0	100.0	100.0	100.0
19 mm (3/4"):	99.0	100.0	100.0	99.7	99.7
12.5 mm (1/2"):	85.7	100.0	100.0	89.7	89.6
9.5 mm (3/8"):	36.8	98.4	100.0	80.3	80.2
4.75 mm (NO. 4):	3.8	56.0	97.8	52.9	52.4
2.36 mm (NO. 8):	0.8	36.7	65.2	34.4	33.8
2.00 mm (NO. 10):	0.5	33.0	58.4	30.9	30.2
1.18 mm (NO. 16):	0.4	25.3	44.8	23.7	22.9
600 µm (NO. 30):	0.3	18.7	33.8	17.7	18.9
425 µm (NO. 40):	0.3	16.3	29.8	15.6	14.7
300 µm (NO. 50):	0.3	14.5	28.9	14.0	13.1
150 µm (NO. 100):	0.3	11.6	21.8	11.3	10.4
75 µm (NO. 200):	0.3	9.2	17.4	9.0	8.1
					3 - 8

*1% -75µm (NO. 200) REMOVED TO MEET GRADATION SPECIFICATIONS.

PAGE 2 OF 4

E.A. NO.: 73110
 PIT NO.: WP 06-03
 DATE SAMPLED: 12/01/05
 LOCATION: Sec. 29 30, T.25N., R.65E.
 ROUTE, COUNTY, MILEPOST: US 93, WP 108.31
 % OF WEAR (500 REVS): 26.6

LAB NO.: AO-33-05
 DATE REPORTED: 01/19/08
 MATERIAL: PIT AGGREGATE
 SP. GR. (% OF WEAR): 2.60
 REMARKS:

SODIUM SOUNDNESS
 CONCRETE: 8
 PLANT MIX: 7 8

COARSE FINES
 8 8

HOLE NUMBER	8	8	9	9	10	10	11	11	12	12	13	13	14	14
SAMPLE DEPTH (FEET)	0-20	BTM	0-20	BTM	0-21	BTM	0-1	BTM	0-1	1-25	BTM	0-20	BTM	0-24
SAMPLE DEPTH (METERS)	0-20	BTM	0-20	BTM	0-21	BTM	0-1	BTM	0-1	1-25	BTM	0-20	BTM	0-24
% PASS. 75mm (3") SIEVE	100	100	100	100	100	100	100	100	100	100	100	100	100	100
% PASS. 50mm (2") SIEVE	94				96			100		97		100	97	
% PASS. 37.5mm (1 1/2") SIEVE	93	84	100	71	94	90		96	93	100	96	84	96	93
% PASS. 25mm (1") SIEVE	90		93		86			91		90		90	93	89
% PASS. 19mm (3/4") SIEVE	88	54	89	51	81	75	100	87	87	93	86	73	88	83
% PASS. 12.5mm (1/2") SIEVE	82		83		74			81		78		83	83	78
% PASS. 9.5mm (3/8") SIEVE	77		79		70			77		73		78	78	74
% PASS. 4.75mm (#4) SIEVE	60	36	65	36	58	47	87	67	57	77	61	56	67	28
% PASS. 2mm (#10) SIEVE	45	28	48	29	47	37	72	54	43	64	50	43	55	20
% PASS. 1.18mm (#16) SIEVE	39		40		41			47		43		47	47	50
% PASS. 425µm (#40) SIEVE	30	21	30	19	33	27	55	37	28	49	35	25	39	12
% PASS. 300µm (#50) SIEVE	28		27		31			35		32		37	37	41
% PASS. 150µm (#100) SIEVE	25		24		27			31		28		32	32	37
% PASS. 75µm (#200) SIEVE	19	14	19	11	21	15	39	25	16	34	21	15	25	5
SPECIFIC GRAVITY	2.60		2.59		2.59			2.60		2.60		2.58	2.63	
LIQUID LIMIT	22		24		26			22		26		30	20	
PLASTICITY INDEX	NP	10	3	2	NP	NP	NP	11	3	5	9	4	8	NP
SAND EQUIVALENT			26					20					6	3

REMARKS: HOLES #9, 10, 13 & 14 = NO OB, SAMPLED IN BRUSHED AREA
 HOLE #8 = NO OB, SAMPLED IN EXCAVATED AREA

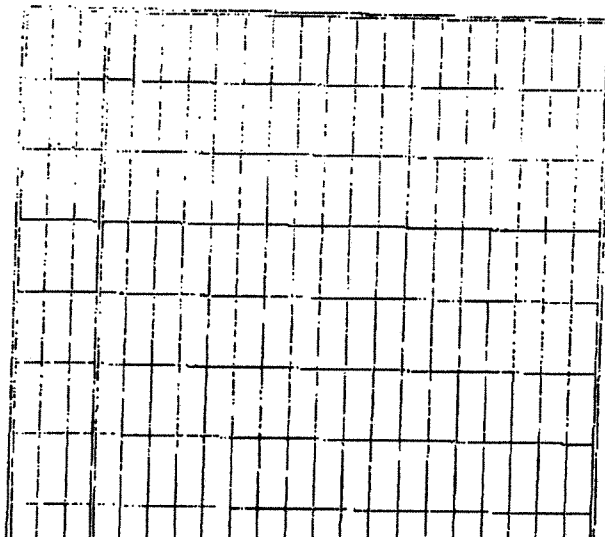
N.D.O.T. 027-030 REV. 07/92

LAB NO.: AO-33-05
 DATE REPORTED: 01/19/06
 MATERIAL: PIT AGGREGATE
 SP. GR. (% OF WEAR) : 2.60
 REMARKS:

E.A. NO.: 73110
 PIT NO.: WP 06-03
 DATE SAMPLED: 12/01/05
 LOCATION: Sec. 29 30, T.25N., R.65E.
 TTY, MILEPOST: US 93, WP 108.31
 LR (500 REVS) : 26.6

COARSE FINES
 CONCRETE: 6 8
 PLANTMIX: 7 8

	15 OB	15	15	16 OB	16	16	17	17	18	18	19	19	20 OB	20	20	21 OB	21	21
H (FEET)	0-1	1-25	BTM	0-1	1-21	BTM	0-21	BTM	0-21	BTM	0-25	BTM	0-1	1-21	BTM	0-1	1-25	BTM
(3") SIEVE	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
(2") SIEVE	96	96	84	96	87	95	95	100	100	100	100	100	100	100	100	100	88	100
m (1 1/2") SIEVE	95	95	84	96	84	91	93	98	100	100	98	84	91	91	95	91	87	93
(1") SIEVE	92	92	80	80	80	80	90	91	91	91	89	85	85	85	85	85	81	81
(3/4") SIEVE	100	88	81	87	75	86	85	68	86	86	83	63	100	81	84	100	77	82
m (1/2") SIEVE	80	80	80	80	69	80	80	80	80	80	75	75	75	74	74	74	70	70
(3/8") SIEVE	75	75	75	75	64	76	76	75	75	75	71	71	71	70	70	70	65	65
m (#4) SIEVE	91	62	54	70	54	69	61	46	62	67	58	42	91	60	48	92	54	53
#10) SIEVE	79	46	41	59	42	48	45	37	49	56	45	34	82	50	36	81	43	41
m (#16) SIEVE	38	38	38	36	36	36	39	39	43	43	39	31	66	43	35	64	36	36
(#40) SIEVE	65	29	29	47	29	18	30	25	34	42	31	24	66	35	24	64	28	26
(#50) SIEVE	26	26	26	27	27	27	28	28	31	31	29	25	33	33	33	33	27	27
(#100) SIEVE	23	23	23	24	24	24	25	25	27	27	25	25	29	29	29	29	24	24
(#200) SIEVE	45	16	19	33	18	10	19	13	20	25	18	15	49	22	14	48	19	15
NTY	260	260	260	260	260	260	262	262	262	262	259	259	262	262	262	262	262	262
EX	20	24	30	21	24	20	26	25	25	25	27	24	24	27	28	24	27	25
ENT	NP	NP	12	NP	5	NP	NP	5	NP	4	NP	5	1	NP	8	NP	7	NP
REMARKS:	35	35	35	35	24	24	25	25	25	25	30	30	30	30	30	30	30	30



19/06
REGATE
R) : 2.60

LEGEND -

Surveyed: 9-10-96

W. SWIFT

1. DEC 96

1E - K. SWIFT

W9 - D. DEC 96

--- Current / Old used w/ 90 NPS-E

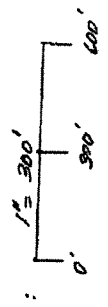
--- PROTECT SITE ACCESS ROAD

- - - HIGH FENCE LINE

--- POWER LINE

* ~ PREESTABLISHED TEST HOLES

DESCRIPTIONS: NW 1/4 SW 1/4, SEC 21, T26N R9E
M08744



07-01

N

SWIFT

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
1263 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

LAB NUMBER:	AO97-7P	DENSE-GRADE BITUMEN RATIO:	7.0 AC-20P
E.A. NUMBER:	71971	OPEN-GRADE BITUMEN RATIO:	8.5 AC-20P
COUNTY:	WHITE PINE		
PROJECT NUMBER(S):	SP-PE94(1)		
DATE SAMPLED:	09/17/96		
DATE RECEIVED:	11/04/98		
REPORT DATE:	12/11/98		
SAMPLED BY:	FIELD CREW		
CHECKED BY:	MSB		
TYPE MATERIAL:	PIT AGGREGATE (TYPE 2/2C & 3/8" OPEN GRADE)		
SOURCE OF SAMPLE(S):	PIT NO. WP 07-01 (SECTION 21, T26N, R86E)		
MINERAL FILLER:	1.5% HYDRATED LIME WET-CURED (MARINATED) 48 HOURS		
TYPE ASPHALT:	AC-20P		
ASPHALT PRODUCER:	HUNTWAY		
SAND EQUIVALENT:	85		
SPECIFIC GRAVITY:	2.51		
SURFACE AREA m²/kg (ft²/lb):	5.202 (25.4)		
JOB DESCRIPTION:			

STATEWIDE MATERIAL SOURCE

#4 WATER ABSORPTION:	2.9	
SS SOUNDNESS COARSE:	6.1	
SS SOUNDNESS FINES:	3.4	
LIQUID LIMIT:	CRUSHER FINES: 22; NATURAL FINES: 21	
PLASTICITY INDEX:	CRUSHER FINES: NP; NATURAL FINES: NP	
LA ABRASION:	23.1	
VMA:	19.0	
SPLIT TENSILE, kPa (PSI):	488.8 (70.8)	SPECIFICATIONS:
% RETAINED STRENGTH:	100.6	448.2 kPa MIN, (65 PSI)
REMARKS:		70% MINIMUM

FOR THE MATERIAL REPRESENTED BY THE SUBMITTED SAMPLES WITH THE ATTACHED GRADINGS,
LABORATORY TESTS INDICATE A BITUMEN RATIO OF 7.0 AC-20P FOR TYPE 2/2C AGGREGATE,
FOR 3/8" OPEN GRADE AGGREGATE A BITUMEN RATIO OF 8.5 AC-20P IS INDICATED,
ALL OF THE PRECEDING TREATED WITH 1.5% HYDRATED LIME AND WET-CURED (MARINATED) 48 HOURS

STATE OF NEVADA
 DEPARTMENT OF TRANSPORTATION
 MATERIALS DIVISION
 1263 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

A097-TP
 EA NO. 71971

STABILITY TESTS:

MAX. DENSITY, Mg/m³ (PCF):			2.302 (143.6)	2.289 (142.8)	
Mg/m³ (PCF):	2.140 (133.5)	2.153 (134.3)	2.164 (135.0)	2.175 (135.7)	2.209 (137.8)
BITUMEN RATIO:	5.5	6.0	6.5	7.0	7.5
HVEEM VALUE:	40	40	40	38	33
% AIR VOIDS:	8.2	7.0	6.0	5.0	2.9

**GRADATIONS:
 (PERCENT PASSING)**

SIEVE SIZE:	1" ROCK:	3/4" ROCK:	1/2" ROCK:	CRUSHER FINES:	NATURAL FINES:	*AS COMBINED & TESTED:	TYPE 2 SPECS:	TYPE 2C SPECS:
37.5 mm (1 1/2"):								
25 mm (1"):	100.0					100.0	100	100
19 mm (3/4"):	0.0	100.0				90.0	80 - 100	80 - 95
12.5 mm (1/2"):	0.0	76.1	100.0		100.0	84.0		79 - 85
9.5 mm (3/8"):	0.0	46.3	82.1		99.8	74.7	63 - 85	60 - 75
4.75 mm (NO. 4):	0.0	5.9	6.6	100.0	99.6	54.3	46 - 63	43 - 60
2.36 mm (NO. 8):	0.0	1.4	0.4	81.7	77.2	34.0		
2.00 mm (NO. 10):	0.0	1.3	0.3	54.8	72.6	30.6	30 - 44	30 - 44
1.18 mm (NO. 16):	0.0	1.2	0.2	38.8	60.9	22.7		
600 µm (NO. 30):	0.0	1.1	0.2	25.6	48.1	15.9		
425 µm (NO. 40):	0.0	1.1	0.2	21.3	42.8	13.5	12 - 22	12 - 22
300 µm (NO. 50):	0.0	1.0	0.2	17.2	36.2	11.1		
150 µm (NO. 100):	0.0	1.0	0.2	11.6	25.3	7.6		
75 µm (NO. 200):	0.0	0.8	0.2	8.4	18.5	5.6	3 - 7	3 - 7

* COMBINED 10% 1" ROCK, 25% 3/4" ROCK, 13% 1/2" ROCK, 42% CRUSHER FINES AND 10% NATURAL FINES

37.5 mm (1 1/2"):
25 mm (1"):
19 mm (3/4"):
12.5 mm (1/2"):
9.5 mm (3/8"):
4.75 mm (NO. 4):
2.36 mm (NO. 8):
2.00 mm (NO. 10):
1.18 mm (NO. 16):
600 µm (NO. 30):
425 µm (NO. 40):
300 µm (NO. 50):
150 µm (NO. 100):
75 µm (NO. 200):

PAGE 1 OF 4

Z.A. NO.: 71971
 PIT NO.: WP 07-01
 DATE SAMPLED: 08/17/98
 LOCATION: SEC. 21, T.28N., R.66E.
 ROUTE, COUNTY, MILEPOST: US 93A, WP 5.0
 % OF WEAR (500 REVS): 23.1
 SODIUM SOUNDNESS
 CONCRETE: 5.0
 PLANT MIX: 6.1 3.4 3.4
 LAB NO.: AO-07-97
 DATE REPORTED: 10/11/98
 MATERIAL: PIT AGGREGATE
 SP. GR. (% OF WEAR): 2.51
 REMARKS:

COARSE FINES
 5.0 3.4
 6.1 3.4

PILE NUMBER	10B	1A	1CP	1	2OB	2	3OB	3	4OB	4	5OB	5
SAMPLE DEPTH (METERS)	0-6	6-4.9	4.9-6.1	6-6.1	BTM	1	2OB	2	3OB	3	4OB	4
SAMPLE DEPTH (FEET)	0-2	2-16	16-28	2-20	BTM	0-1.5	0-1.5	1.5-6.1	0-1.5	1.5-6.1	0-1.5	1.5-6.1
% PASS. 75mm (3") SIEVE	100	100	100	100	100	100	100	100	100	100	100	100
% PASS. 50mm (2") SIEVE	94	89	100	100	100	100	100	100	100	100	100	100
% PASS. 37.5mm (1 1/2") SIEVE	93	87	99	87	90	95	90	82	95	100	100	100
% PASS. 25mm (1") SIEVE	88	82	97	80	80	80	80	74	81	84	78	96
% PASS. 19mm (3/4") SIEVE	100	86	78	95	70	100	100	67	75	89	62	93
% PASS. 12.5mm (1/2") SIEVE	81	71	91	77	67	62	62	58	71	78	62	90
% PASS. 9.5mm (3/8") SIEVE	66	54	73	48	92	52	72	43	54	73	41	83
% PASS. 4.75mm (#4) SIEVE	89	47	39	54	39	37	57	31	40	62	42	70
% PASS. 2mm (#10) SIEVE	38	33	44	29	29	29	29	26	35	35	30	73
% PASS. 1.18mm (#16) SIEVE	75	25	23	30	28	18	41	17	23	46	13	40
% PASS. 425µm (#40) SIEVE	21	19	26	15	15	15	15	15	20	23	13	27
% PASS. 300µm (#60) SIEVE	15	13	20	11	11	11	11	11	20	20	13	19
% PASS. 150µm (#100) SIEVE	54	11	10	16	34	9	20	9	12	25	5	23
% PASS. 75µm (#200) SIEVE	2.54	2.50	2.53	2.51	2.51	2.51	2.51	2.50	2.50	2.50	30	18
SPECIFIC GRAVITY	29	23	22	25	24	22	24	24	26	31	22	13
LIQUID LIMIT	11	3	4	6	7	NP	8	4	7	12	24	2.51
PLASTICITY INDEX												20
SAND EQUIVALENT				29				34			4	3
REMARKS: SIEVE ANALYSES ARE DETERMINED ON MATERIAL PASSING THE THREE INCH SCREEN.												46
NOTICE IS GIVEN THAT OVERSIZE MATERIAL MAY BE PRESENT IN THIS DEPOSIT.												NP
												2

N.D.O.T. 027-030 REV. 07/92

LAB NO.: AO-07-97
DATE REPORTED: 10/11/86
MATERIAL: PIT AGGREGATE
SP. GR. (% OF WEAR): 2.51
REMARKS:

7	7	8OB	8	9	9	10	10OB	11	11	12	12
1-6.1	BTM	0-3	3-6.1	BTM	0-3.4	BTM	0-6	6-6.4	BTM	8-6.1	BTM
1-20	BTM	0-1	1-20	BTM	0-11	BTM	0-2	2-21	BTM	0-20	BTM
100	100		100	100		100		100	100	100	100
95			92		100	91		94		88	
89	76	100	90	94	96	100	87	100	91	87	95
84			84		87		81		86		79
79	66	98	81	93	80	97	77	97	79	64	73
73			77		70	70		74		67	
69			72		65		66		70		63
58	45	95	59	61	52	75	53	84	96	60	37
45	35	87	39	36	39	59	39	76	87	44	24
39			29		32		33		35		28
30	20	70	17	11	21	52	23	61	74	22	11
27			14		18		21		18		16
21			10		14		17		13		12
16	9	41	7	6	12	25	14	26	51	10	4
54			2.51		2.51		2.53			2.51	
24	21	30	20	28	25	35	29	31	30	26	20
4	5	12	NP	11	8	12	11	11	11	9	NP
30			53		26					34	

REMOVED ON MATERIAL PASSING 16.5 TO 20.0

26	23	26
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MINED ON MATERIAL PASSING THE THREE INCH SCREEN.
 RSIZE MATERIAL MAY BE PRESENT IN THIS DEPOSIT.

11/1/86
REGATE
b): 2.51

6	16	17OB	17	17	18OB	18	18
4.0	BTM	0-6	6-5.2	BTM	0-3	3-5.2	BTM
13	BTM	0-2	2-17	BTM	0-1	1-17	BTM
20			100		100	100	
85			95			89	
84	100		95		98	85	
80			93			82	
76	94	100	91	100	87	81	100
71			88			78	
58			85			76	
59	86	96	77	99	61	68	98
19	76	89	67	96	42	54	97
14			61			47	
16	56	76	49	87	23	34	91
13			44			30	
17			29			22	
10	29	52	18	65	11	15	44
5			2.34			2.50	
6	26	21	20	26	31	22	20
7	8	4	NP	7	NP	NP	NP
			48				

FREE INCH SCREEN.
HIS DEPOSIT.

7
5/11/86
PREGATE
2.51

22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1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EU 02-09

US 50
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Scale 1:8,000



Feet

US State Plane 1983
Nevada East 2701
NAD 1983 (Contig)

R073117A.cor
8/1/2002

GPS Pathfinder[®] Office



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
1263 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

LAB NUMBER:	AO97-15P	DENSE-GRADE BITUMEN RATIO:	5.75 AC-20P
E.A. NUMBER:	71971	OPEN-GRADE BITUMEN RATIO:	7.5 AC-20P
COUNTY:	EUREKA		
PROJECT NUMBER(S):	SPPE-94(1)		
DATE SAMPLED:	12/20/96		
DATE RECEIVED:	01/23/97		
REPORT DATE:	02/08/97		
SAMPLED BY:	FIELD CREW		
CHECKED BY:	MSB & SJH		
TYPE MATERIAL:	PIT AGGREGATE (TYPE 2 AND 3/8" OPEN GRADE)		
SOURCE OF SAMPLE(S):	EU 02-09		
MINERAL FILLER:	1.5% HYDRATED LIME WET-CURED (MARINATED) 48 HOURS		
TYPE ASPHALT:	AC-20P		
ASPHALT PRODUCER:	PETRO SOURCE		
SAND EQUIVALENT:	64		
SPECIFIC GRAVITY:	2.84		
SURFACE AREA m ² /kg (ft ² /lb):	5.28 (25 ft ²)		

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
1263 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

AO97-15P
EA NO. 71971
STABILITY TESTS:

MAX. DENSITY, Mg/m³ (PCF):				2.437 (152.1)	2.420 (151.0)	
Mg/m³ (PCF):	2.234 (139.4)	2.240 (139.8)	2.291 (143.0)	2.303 (143.7)	2.333 (145.6)	2.341 (146.1)
BITUMEN RATIO:	4.0	4.5	5.0	5.5	6.0	6.5
HVEEM VALUE:	47	45	44	43	40	28
% AIR VOIDS:	10.2	9.3	6.5	5.5	3.8	2.6

**GRADATIONS:
(PERCENT PASSING)**

SIEVE SIZE:	3/4" ROCK:	1/2" ROCK:	CRUSHER FINES:	NATURAL FINES:	*AS COMBINED:	**AS TESTED:	TYPE 2 SPECS:
37.5 mm (1 1/2"):							
25 mm (1"):							
19 mm (3/4"):	100.0				100.0	100.0	100
12.5 mm (1/2"):	69.4	100.0			89.6	89.4	90 - 100
9.5 mm (3/8"):	44.0	85.0					

LAB NO.: AO-15-97
DATE REPORTED: 01/30/87
MATERIAL: PIT AGGREGATE
SP. GR. (% OF WEAR): 2.86
REMARKS:

& 28, T.20N., R.52E.

FINES

8.3

8.1

1	2 OB	2	2	3 OB	3	3	4 OB	4	4	5 OB	5	5	6	6
TM	0-3.4	3.4-5.8	BTM	0-6	6-5.8	BTM	0-1.5	1.5-6.1	BTM	0-3	3-5.8	BTM	0-5.2	BTM
TM	0-11	11-19	BTM	0-2	2-19	BTM	0-5	5-20	BTM	0-1	1-19	BTM	0-17	BTM
100		100	100		100	100		100	100		100		100	100
		89			95			98			95		97	
98	100	83	92	100	87	98	100	89	94	100	88	100	95	97
		69			77			80			81		90	
90	97	65	85	99	70	76	85	71	76	93	75	96	86	90
		58			60			60			63		77	
		55			53			53			56		71	
66	82	46	64	76	41	37	72	40	43	60	41	54	55	50
60	71	38	57	58	33	26	65	30	30	39	30	33	40	35
		35			29			28			26		34	
49	59	29	50	42	22	19	56	24	20	22	21	17	26	20
		28			20			24			19		24	
		25			16			21			17		21	
85	42	19	37	28	12	13	37	17	13	12	13	9	17	10
		2.56			2.60			2.56			2.56		2.55	
11	21	21	21	22	20	25	23	21	19	28	21	19	21	18
6	2	NP	NP	3	NP	7	NP	NP	NP	NP	2	NP	2	NP
					28						24			

FARE DETERMINED ON MATERIAL BASIS

LAB NO.: AO-15-97
 DATE REPORTED: 01/30/97
 MATERIAL: PIT AGGREGATE
 SP. GR. (% OF YEAR): 2.66
 REMARKS:

21 OB	21	21	22 OB	22	22	23	23	23	24	24	24
0-3	3-5.2	BTM	0-6	6-4.9	BTM	0-5.5	BTM	0-5.5	BTM	0-5.5	BTM
0-1	1-17	BTM	0-2	2-16	BTM	0-18	BTM	0-18	BTM	0-18	BTM
100	100	100	100	100	100	100	100	100	100	100	100
	95			94			97		98		
87	91	88	100	89	97	93	94	96	85		
	81			77		87		85			
63	75	83	99	69	65	80	74	77	74		
	63			61		68		64			
	55			57		61		57			
50	37	51	95	50	44	43	43	42	39		
46	26	42	92	44	38	30	30	29	26		
	22			41		26		23			
43	18	33	88	37	32	19	17	17	13		
	17			36		18		16			
	15			33		15		14			
34	12	28	72	27	23	10	10	10	9		
	2.58			2.55		2.60		2.58			
27	24	23	25	25	23	19	19	21	26		
4	NP	5	3	4	3	NP	2	5	11		
	27					29					

MATERIAL PASSING THE THREE INCH SCREEN.
 MATERIAL MAY BE PRESENT IN THIS DEPOSIT.

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
1263 S. STEWART ST. CARSON CITY, NV 89712

STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
MATERIALS DIVISION
1263 S. STEWART ST. CARSON CITY, NV 89712
PRELIMINARY BITUMINOUS MIX DESIGN

A007-16P
EA NO. 71971

LAB NO.: AO-16-87
 DATE REPORTED: 02/26/97
 MATERIAL: PIT AGGREGATE
 SP. GR. (% OF WEAR): 2.62
 REMARKS:

-R.52E.

32	32	33	33	33	34	34	34	35	35	35	36	36
3-6.4	BTM	0-3	3-6.7	BTM	0-6	6-6.1	BTM	0-6	6-6.1	BTM	0-6	6-6.4
1-21	BTM	0-1	1-22	BTM	0-2	2-20	BTM	0-2	2-21	BTM	0-2	2-21
100	100	100	100	100	100	100	100	100	100	100	100	100
92			95			98			100			95
90	96	90	86	94	100	92	91	100	96	100	98	91
75			74			81			89			84
68	85	82	65	68	93	73	77	96	83	87	96	83
59			54			62			71			69
53			49			56			64			63
41	53	68	39	39	67	42	44	84	48	52	88	51
34	45	62	33	32	43	32	32	77	35	41	82	39
31			30			29			30			35
26	40	56	25	26	27	25	24	70	25	33	77	29
24			23			24			24			27
20			20			22			21			23
15	27	42	15	17	18	18	15	51	16	22	56	18
2.58			2.60			2.56			2.58			2.58
24	21	30	22	21	30	24	21	26	21	22	28	21
4	NP	8	NP	NP	NP	2	3	NP	NP	3	NP	NP
			25						29			

TERMINED ON MATERIAL PASSING THE THREE INCH SCREEN.
 :RSIZE MATERIAL MAY BE PRESENT IN THIS DEPOSIT.

PAGE 3 OF 4

LAB NO.: AO-18-97
DATE REPORTED: 02/26/97
MATERIAL: PIT AGGREGATE
SP. GR. (1 OF YEAR): 2.62
REMARKS:

E.A. NO.: 71971
PIT NO.: EU 02-09B
DATE SAMPLED: 01/24/97
ROUTE, COUNTY, LOCATION: SEC. 21, 22, 27 & 28, T.20N., R.52E.
‡ OF NEAR (500 FEET): 27.4

6.7																
4.3																
PLANTEXT:																
HOLE NUMBER																
SAMPLE DEPTH (METERS)																
SAMPLE DEPTH (FEET)																
% PASS. 75mm (3") SIEVE																
% PASS. 50mm (2") SIEVE																
% PASS. 37.5mm (1 1/2") SIEVE																
% PASS. 25mm (3/4") SIEVE																
% PASS. 12.5mm (1/2") SIEVE																
% PASS. 9.5mm (3/8") SIEVE																
% PASS. 4.75mm (#4) SIEVE																
% PASS. 2mm (#10) SIEVE																
% PASS. 1.18mm (#16) SIEVE																
% PASS. 425µm (#40) SIEVE																
% PASS. 300µm (#50) SIEVE																
% PASS. 150µm (#100) SIEVE																
% PASS. 75µm (#200) SIEVE																
SPECIFIC GRAVITY																
LIQUID LIMIT																
PLASTICITY INDEX																
SAND EQUIVALENT																
REMARKS: SIEVE ANALYSES ARE DETERMINED ON MATERIAL PASSING TO THE NEXT SIEVE SIZE.																

