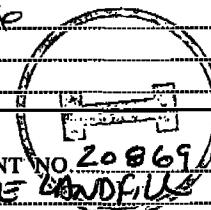


OFFICE USE ONLY
 Log No. 83216
 Permit No. _____
 Basin 212



PRINT OR TYPE ONLY
 DO NOT WRITE ON BACK

WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 20869

1. OWNER RePUBLIC Dumped INC ADDRESS AT WELL LOCATION SUNRISE LANDFILL
 MAILING ADDRESS 7900 E VEGAS VALLEY DR 7900 E. VEGAS VALLEY DR
LV NV 89122

2. LOCATION SW 1/4 SE 1/4 Sec. 12 T 21 N34R 62 E CLARK County
 PERMIT NO. 161-12-002 Issued by Water Resources Parcel No. _____ Subdivision Name _____

3. WORK PERFORMED
 New Well Replace Recondition
 Deepen Abandon Other _____

4. PROPOSED USE
 Domestic Irrigation Test
 Municipal/Industrial Monitor Stock

5. WELL TYPE
 Cable Rotary RVC
 Air Other _____

6. MWIIC LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
Pink silty sand w/ gravel		0	19	19'
BROWN SILTY SAND		19	20	1'
ALL GRAVEL		20	27	7'
PINK SILTY SAND w/ GRAVEL		27	30	3'
REDDISH YELLOW SILTY SAND w/ GRAVEL		30	40	10'
LIGHT BROWN SILTY SAND w/ GRAVEL		40	43	3'
PINK SILTY SAND w/ GRAVEL		43	60	17'
Light Brn silty sand w/ gravel		60	100'	40
LIGHT BRN SILTY SAND w/ GRAVEL DARK GRAY CLAY		100'	118	18'
YELLOWISH RED SILTY SAND		118	120	2'
LIGHT BRN SILTY SAND w/ GRAVEL		120	130	10'
YELLOW RED SILTY SAND w/ GRAVEL		130	180	50'
LIGHT BRN SILTY SAND w/ GRAVEL GRAY CLAY		180	184	4'
YELLOWISH RED SILTY SAND w/ GRAVEL		184	208	24'
LIGHT BRN SILTY SAND		208	209	1'

8. WELL CONSTRUCTION
 Depth Drilled 828 Feet Depth Cased 828 Feet

HOLE DIAMETER (BIT SIZE)
 From 20 Inches To 18 Feet
 8 3/4 Inches 18 Feet 828 Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
14		1.250	0	18
4	Sch 80	PVC	+2	483
4	Sch 5	Stainless	483	803

Perforations:
 Type perforation stainless wire wrap
 Size perforation 0.10
 From 803 feet to 828 feet

Surface Seal: Yes No Seal Type:
 Depth of Seal 796 bent gravel 0-18 Neat Cement
 Placement Method: Pumped Cement Grout
 Poured Concrete Grout
 Gravel Packed: Yes No 796-801 bent pellets
 From 801 feet to 828 feet

9. WATER LEVEL
 Static water level _____ feet below land surface
 Artesian flow _____ G.P.M. _____ P.S.I.
 Water temperature _____ °F Quality _____

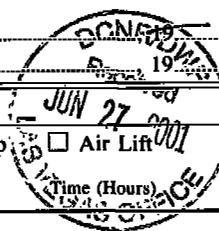
10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.
 Name LAYNE CHRISTENSEN Co Contractor
 Address 9001 B PACIFIC AVE Contractor
TALOMA, WA
 Nevada contractor's license number issued by the State Contractor's Board 0019101
 Nevada driller's license number issued by the Division of Water Resources/the on-site driller M1628
 Signed [Signature]
 By driller performing actual drilling on site or contractor
 Date 06/07/01

Date started 05/11/01
 Date completed 05/31/01

7. WELL TEST DATA

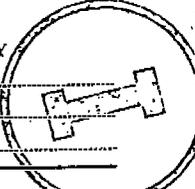
TEST METHOD: Bailer Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
<u>~ 205</u>	<u>gal / hour</u>	



STATE OF NEVADA
 DIVISION OF WATER RESOURCES

OFFICE USE ONLY
 Log No. 83216
 Permit No. _____
 Basin. 212



WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. _____

PRINT OR TYPE ONLY
 DO NOT WRITE ON BACK

1. OWNER _____ ADDRESS AT WELL LOCATION _____
 MAILING ADDRESS _____
 2. LOCATION _____ 1/4 _____ 1/4 Sec _____ T _____ N/S R _____ E _____ County _____
 PERMIT NO. _____ Issued by Water Resources _____ Parcel No. _____ Subdivision Name _____

3. WORK PERFORMED
 New Well Replace Recondition
 Deepen Abandon Other _____
 4. PROPOSED USE
 Domestic Irrigation Test
 Municipal/Industrial Monitor Stock
 5. WELL TYPE
 Cable Rotary RVC
 Air Other _____

6. MW 11C LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
YELLOWISH RED SILTY SAND w/ GRAVEL		209	217	8'
LIGHT BRN SILTY SAND w/ GRAVEL		217	218	1'
YELLOWISH RED SILTY SAND w/ GRAVEL		218	226	8'
LIGHT REDDISH BRN W/CLAY CHIT. GRAVEL w/CLAY		226	230	4'
RED SANDY GRAVEL AND SILT		230	249	19'
DARK RED SAND w/ GRAVEL		249	255	6'
LIGHT REDDISH BRN SILTY SAND w/ GRAVEL		255	257	3'
W/ GRAVEL SAND w/ CLAYEY SILT	W	257	259	2'
Poorly graded gravel w/ silty SILT	D	259	262	3'
REDDISH YELLOW SILTY SAND w/ GRAVEL		262	267	5'
YELLOWISH RED SILTY SAND		267	270	3'
YELLOWISH RED COARSE SAND AND GRAVEL		270	277	7'
CALICHE SILTY SAND AND TRACE gypsum		277	282	5'
REDDISH BROWN COARSE SAND		282	285	3'
SILTY CLAYEY SAND w/ GRAVEL		285	289	4'
LIGHT YELLOWISH BRN CLAY		289	305	16'

8. WELL CONSTRUCTION
 Depth Drilled _____ Feet Depth Cased _____ Feet
 HOLE DIAMETER (BIT SIZE)
 From _____ To _____
 _____ Inches _____ Feet _____ Feet
 _____ Inches _____ Feet _____ Feet
 _____ Inches _____ Feet _____ Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)

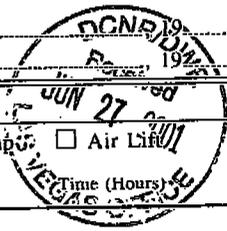
Perforations:
 Type perforation _____
 Size perforation _____
 From _____ feet to _____ feet
 Surface Seal: Yes No Seal Type:
 Neat Cement
 Cement Grout
 Concrete Grout
 Placement Method: Pumped Poured
 Gravel Packed: Yes No
 From _____ feet to _____ feet

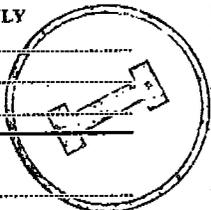
9. WATER LEVEL
 Static water level _____ feet below land surface
 Artesian flow _____ G.P.M. _____ P.S.I.
 Water temperature _____ °F Quality _____

10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.
 Name _____ Contractor _____
 Address _____ Contractor _____
 Nevada contractor's license number issued by the State Contractor's Board _____
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller _____
 Signed _____ By driller performing actual drilling on site or contractor
 Date _____

Date started _____
 Date completed _____
 7. WELL TEST DATA
 TEST METHOD: Bailor Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)





PRINT OR TYPE ONLY
 DO NOT WRITE ON BACK

WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. _____

1. OWNER _____ ADDRESS AT WELL LOCATION _____
 MAILING ADDRESS _____

2. LOCATION $\frac{1}{4}$ _____ $\frac{1}{4}$ Sec. _____ T. _____ N/S R _____ E _____ County _____
 PERMIT NO. _____ Issued by Water Resources _____ Parcel No. _____ Subdivision Name _____

3. WORK PERFORMED
 New Well Replace Recondition
 Deepen Abandon Other _____

4. PROPOSED USE
 Domestic Irrigation Test
 Municipal/Industrial Monitor Stock

5. WELL TYPE
 Cable Rotary RVC
 Air Other _____

6. MW 11C LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
OLIVE SILTY SAND		305	307	2'
REDDISH BRN SILTY SAND		307		
W/ GRAVEL			327	20'
SANDY SILTY CLAY		327	334	7'
REDDISH BRN SILTY CLAY		334	340	6'
PINKISH WHITE GYPSUM w/ SILT		340	345	5'
YELLOWISH RED SILTY CLAY w/ GYPSUM		345	358	13'
LT. GRAY SANDY SILTY CLAY		358	366	8'
DK RED SILTY CLAY		366	370	4'
LT. GRAY GYPSIFEROUS CLAY		370	379	9'
REDDISH BROWN SILTY CLAY		379	403	24'
YELLOWISH RED SANDY CLAY w/ GYPSUM		403	519	116'
RED SILTY SAND w/ GRAVEL & GYPSUM		519	522	3'
YELLOW RED SILTY SANDY CLAY w/ GRAVEL		522	566	44'
REDDISH BRN SILTY SAND w/ GRAVEL		566	573	7'
YELLOWISH RED SAND & GRAVEL		573	577	4'
LT REDDISH BRN CLAY SAND w/ GRAVEL some GYPSUM		577	580	3'
		580	580	
YELLOWISH RED SILTY CLAY SAND w/ GRAVEL AND GYPSUM			828	348'

8. WELL CONSTRUCTION
 Depth Drilled _____ Feet Depth Cased _____ Feet

HOLE DIAMETER (BIT SIZE)
 From _____ To _____
 Inches _____ Feet _____ Feet
 Inches _____ Feet _____ Feet
 Inches _____ Feet _____ Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)

Perforations:
 Type perforation _____
 Size perforation _____
 From _____ feet to _____ feet
 From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
 Neat Cement
 Cement Grout
 Concrete Grout

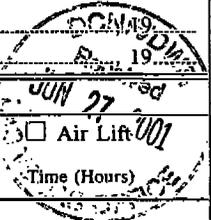
Depth of Seal _____
 Placement Method: Pumped Poured
 Gravel Packed: Yes No
 From _____ feet to _____ feet

Date started _____
 Date completed _____

7. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)



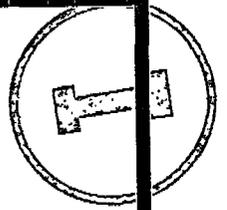
9. WATER LEVEL
 Static water level _____ feet below land surface
 Artesian flow _____ G.P.M. _____ P.S.I.
 Water temperature _____ °F Quality _____

10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.
 Name _____ Contractor _____
 Address _____ Contractor _____

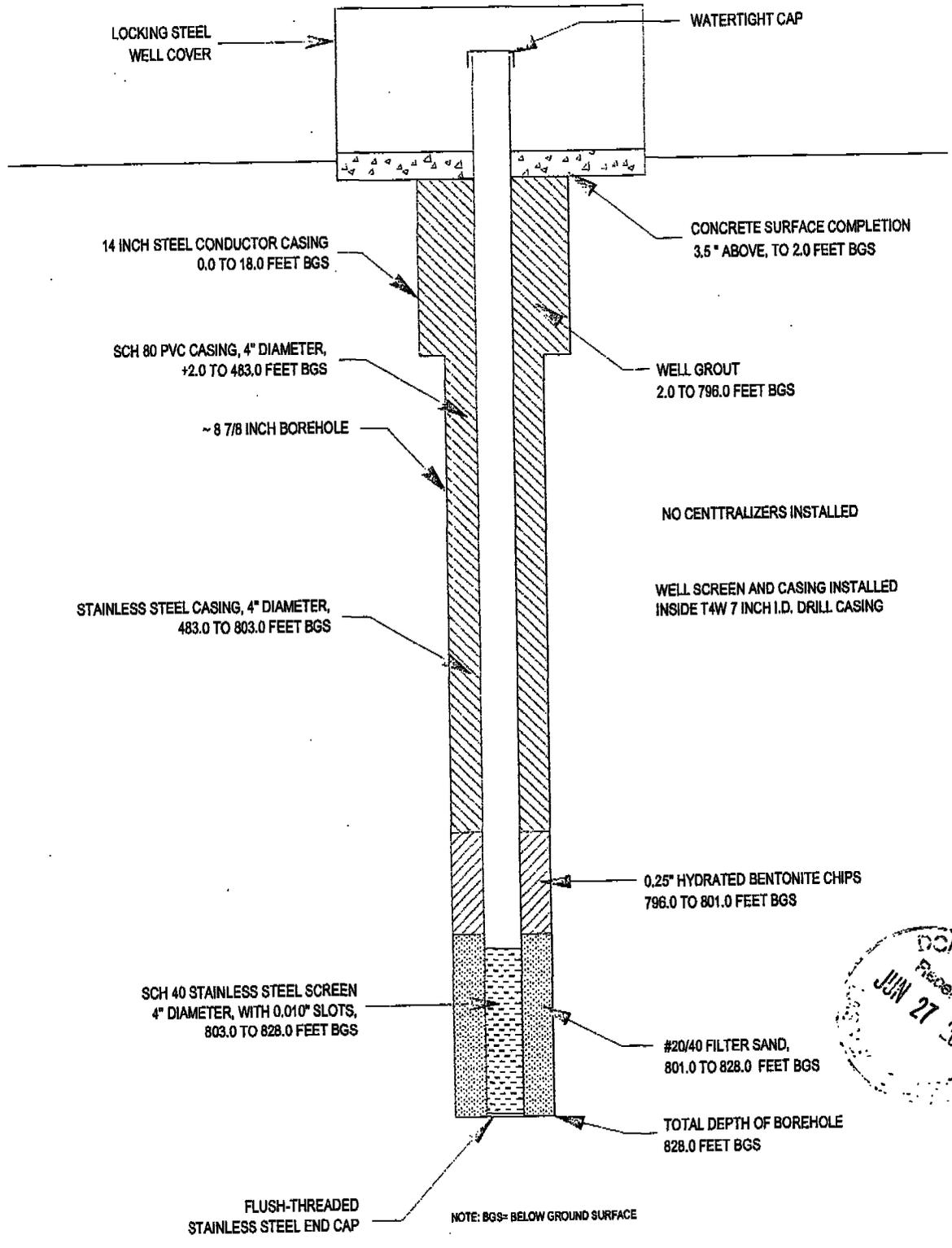
Nevada contractor's license number issued by the State Contractor's Board _____
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller _____

Signed _____
 By driller performing actual drilling on site or contractor
 Date _____

63214



MW-11C



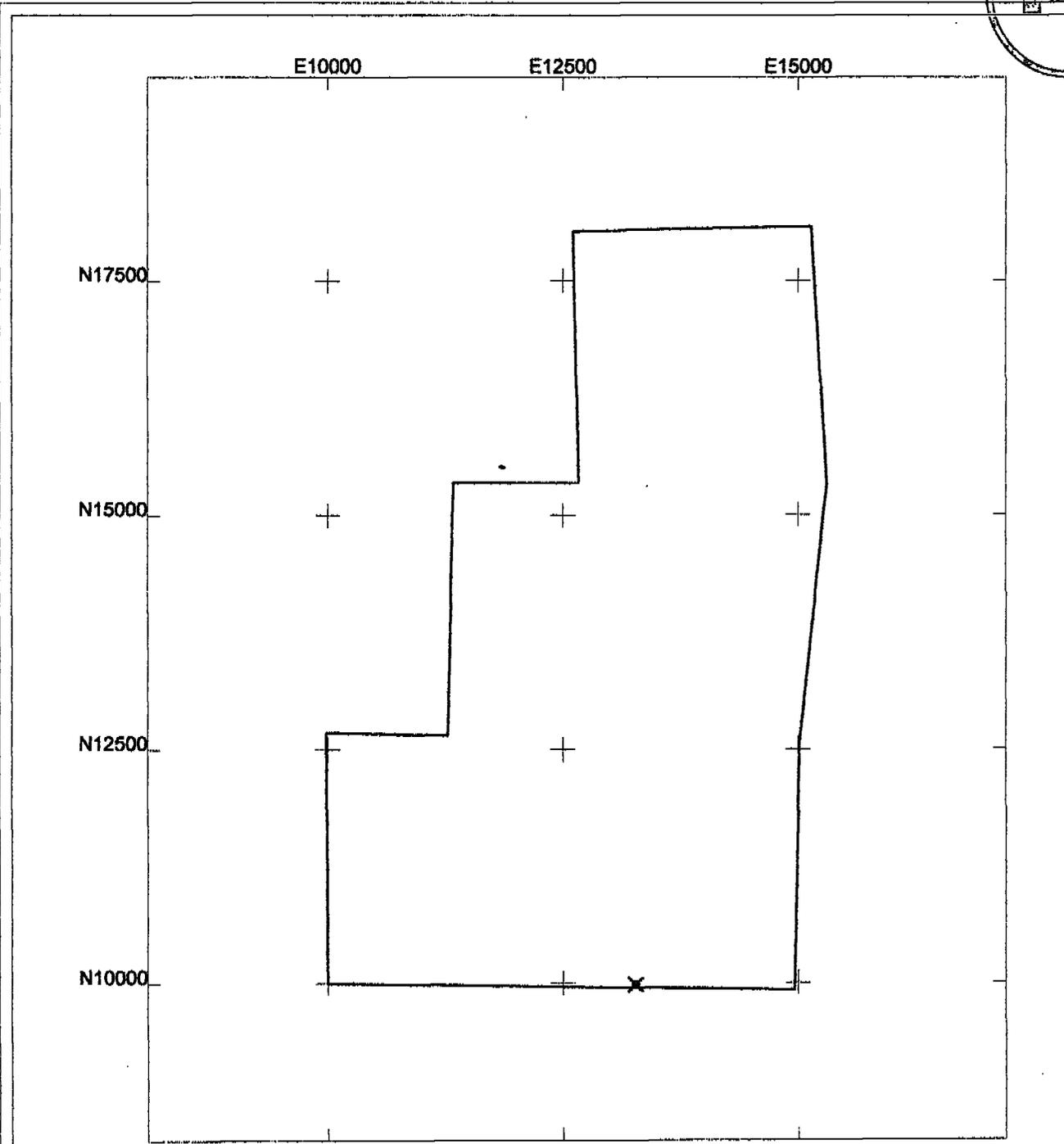
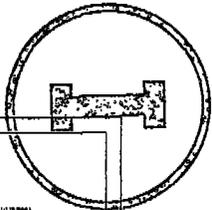
NO CENTRALIZERS INSTALLED

WELL SCREEN AND CASING INSTALLED INSIDE 7 INCH I.D. DRILL CASING



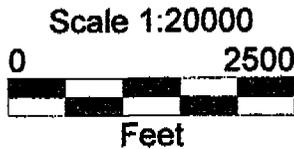
NOTE: BGS= BELOW GROUND SURFACE

 GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC. (702) 365-1001 7580 W. Sahara Ave., Suite 101 Las Vegas, NV 89117	MW-11C WELL CONSTRUCTION DIAGRAM	
	JOB NO. 98744D1	FIG. 1



MW 11C

Sunrise1
 US State Plane 1927
 Nevada East 2701
 NADCON (Conus)



combined.ssf
 6/7/2001
 Pathfinder Office
Trimble