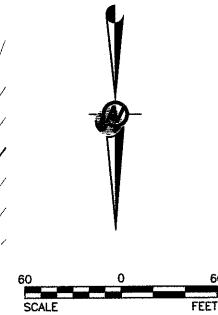
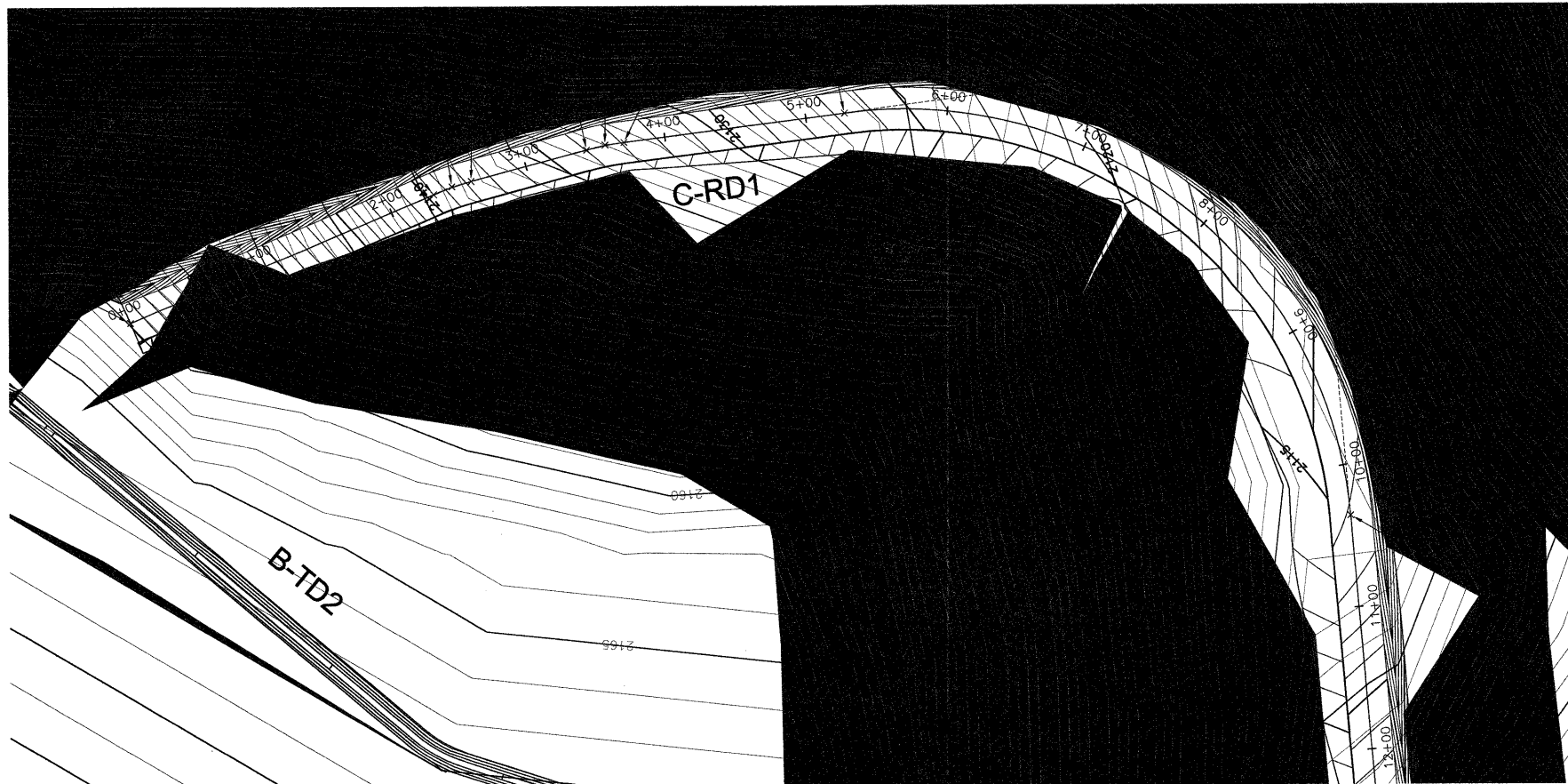
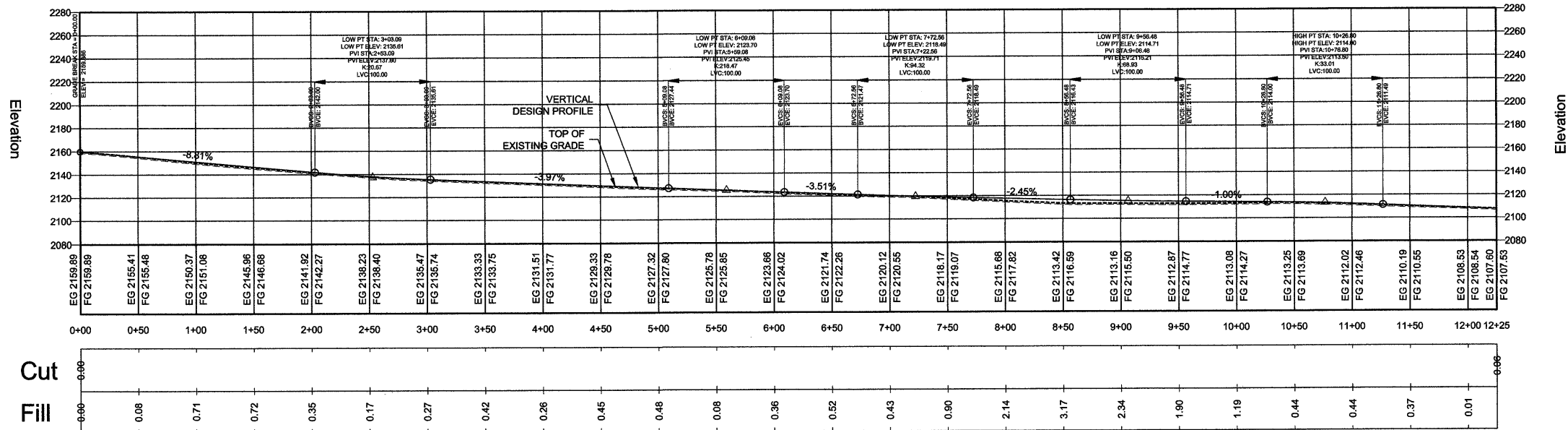


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River	HEC-RAS Station	Plan Station	Clear Flow (cfs)	Min Ch Elev (MSL)	W.S. Elev (MSL)	Flow Depth (ft)	Channel Depth (ft)	Critical Depth (ft)	E.G. Elev (MSL)	Top Width (ft)	Vel Chnl (ft/s)	Froude #	Manning s N	Controling Freeboard (ft)	Max Super Elevation (ft)	Min Curve Radius 50 ft min	Excess Bank Freeboard (ft)
ROADBERM1	4310.00	0.00	122.1	2159.4	2160.3	0.81	2.5	1.22	2161.9	28.79	10.41	2.88	0.016	1.24	-	NA	0.4
ROADBERM1	4290.00	20.00	122.1	2157.7	2158.4	0.74	2.5	1.21	2160.8	26.36	12.42	3.58	0.016	1.28	-	NA	0.5
ROADBERM1	4265.00	45.00	122.1	2155.5	2156.2	0.72	3.0	1.22	2158.9	25.46	13.31	3.91	0.016	1.30	-	NA	1.0
ROADBERM1	4240.00	70.00	122.1	2153.3	2154	0.71	3.0	1.21	2156.9	25.19	13.6	4.01	0.016	1.30	-	NA	1.0
ROADBERM1	4215.00	95.00	122.1	2151.1	2151.8	0.71	3.0	1.22	2154.8	25.1	13.69	4.05	0.016	1.31	-	NA	1.0
ROADBERM1	4190.00	120.00	122.1	2148.9	2149.6	0.71	3.0	1.21	2152.5	25.08	13.72	4.06	0.016	1.31	-	NA	1.0
ROADBERM1	4165.00	145.00	122.1	2146.7	2147.4	0.71	3.0	1.22	2150.3	25.06	13.74	4.07	0.016	1.31	-	NA	1.0
ROADBERM1	4135.00	175.00	122.1	2144	2144.7	0.7	3.0	1.21	2147.7	25.06	13.74	4.07	0.016	1.30	-	NA	1.0
ROADBERM1	4115.00	195.00	122.1	2142.3	2143	0.71	3.0	1.22	2145.9	25.07	13.73	4.06	0.016	1.31	-	NA	1.0
ROADBERM1	4090.00	220.00	122.1	2140.1	2140.9	0.72	3.0	1.21	2143.7	25.19	13.6	4.01	0.016	1.30	-	NA	1.0
ROADBERM1	4061.00	248.70	122.1	2138	2138.7	0.73	3.0	1.22	2141.3	25.71	13.05	3.81	0.016	1.97	0.68	200	0.3
ROADBERM1	4037.00	272.98	122.1	2136.5	2137.2	0.75	3.0	1.21	2139.5	26.61	12.18	3.5	0.016	1.89	0.61	200	0.4
ROADBERM1	4012.00	297.98	122.1	2135.3	2136.1	0.79	3.0	1.22	2138	27.83	11.14	3.13	0.016	1.79	0.54	200	0.4
ROADBERM1	3987.00	322.98	122.1	2134.3	2135.1	0.81	3.0	1.21	2136.8	28.81	10.39	2.87	0.016	1.73	0.48	200	0.5
ROADBERM1	3962.00	347.57	122.1	2133.3	2134.1	0.82	3.0	1.22	2135.8	28.95	10.28	2.83	0.016	1.72	0.48	200	0.5
ROADBERM1	3939.00	371.04	122.1	2132.3	2133.1	0.82	3.0	1.22	2134.8	28.82	10.39	2.87	0.016	1.73	0.48	200	0.5
ROADBERM1	3914.00	396.04	122.1	2131.3	2132.1	0.82	3.0	1.22	2133.8	29.06	10.22	2.81	0.016	1.71	0.47	200	0.5
ROADBERM1	3889.00	421.04	122.1	2130.3	2131.2	0.82	3.0	1.22	2132.8	29.05	10.22	2.81	0.016	1.71	0.47	200	0.5
ROADBERM1	3864.00	446.04	122.1	2129.3	2130.2	0.83	3.0	1.21	2131.8	29.05	10.22	2.81	0.016	1.71	0.47	200	0.5
ROADBERM1	3839.00	471.04	122.1	2128.3	2129.2	0.82	3.0	1.22	2130.8	29.05	10.22	2.81	0.016	1.71	0.47	200	0.5
ROADBERM1	3814.00	496.04	122.1	2127.4	2128.2	0.82	3.0	1.22	2129.8	29.06	10.22	2.81	0.016	1.71	0.47	200	0.5
ROADBERM1	3787.00	523.48	122.1	2126.3	2127.1	0.82	3.0	1.22	2128.7	29.12	10.17	2.79	0.016	1.71	0.47	200	0.5
ROADBERM1	3760.00	549.77	122.1	2125.2	2126	0.82	3.0	1.21	2127.7	29.07	10.21	2.81	0.016	1.71	0.47	200	0.5
ROADBERM1	3736.00	573.62	122.1	2124.3	2125.1	0.83	3.0	1.22	2126.7	29.17	10.14	2.78	0.016	1.70	0.47	200	0.5
ROADBERM1	3713.00	597.47	122.1	2123.4	2124.2	0.83	3.0	1.21	2125.8	29.31	10.04	2.75	0.016	1.69	0.46	200	0.5
ROADBERM1	3689.00	621.32	122.1	2122.5	2123.4	0.84	3.0	1.22	2124.9	29.44	9.95	2.72	0.016	1.69	0.46	200	0.5
ROADBERM1	3660.00	649.94	122.1	2121.5	2122.3	0.84	3.0	1.21	2123.8	29.5	9.91	2.7	0.016	1.68	0.46	200	0.5
ROADBERM1	3636.00	673.79	122.1	2120.6	2121.4	0.84	3.0	1.22	2122.9	29.55	9.88	2.69	0.016	1.68	0.46	200	0.5
ROADBERM1	3612.00	697.64	122.1	2119.8	2120.6	0.85	3.0	1.21	2122.1	29.87	9.67	2.62	0.016	1.68	0.43	200	0.5
ROADBERM1	3589.00	721.49	122.1	2119	2119.9	0.85	3.0	1.22	2121.3	30.31	9.39	2.53	0.016	1.64	0.41	200	0.5
ROADBERM1	3565.00	745.34	122.1	2118.4	2119.2	0.87	3.0	1.21	2120.5	30.82	9.08	2.42	0.016	1.61	0.38	200	0.5
ROADBERM1	3536.00	773.96	122.1	2117.6	2118.5	0.89	3.0	1.22	2119.7	31.28	8.72	2.3	0.016	1.58	0.37	200	0.5
ROADBERM1	3512.00	797.81	122.1	2117	2117.9	0.89	3.0	1.21	2119.1	31.28	8.72	2.3	0.016	1.58	0.37	200	0.5
ROADBERM1	3488.00	821.66	122.1	2116.4	2117.3	0.89	3.0	1.22	2118.5	31.28	8.72	2.3	0.016	1.58	0.37	200	0.5
ROADBERM1	3465.00	845.51	122.1	2115.8	2116.7	0.89	3.0	1.21	2117.8	31.29	8.67	2.28	0.016	1.57	0.37	200	0.5
ROADBERM1	3436.00	874.13	122.1	2115.2	2116.1	0.91	3.0	1.22	2117.1	31.33	8.28	2.13	0.016	1.53	0.33	200	0.6
ROADBERM1	3412.00	897.98	122.1	2114.7	2115.7	0.94	3.0	1.21	2116.6	31.39	7.82	1.95	0.016	1.49	0.30	200	0.6
ROADBERM1	3388.00	921.83	122.1	2114.4	2115.4	0.98	3.0	1.22	2116.2	31.47	7.29	1.76	0.016	1.44	0.26	200	0.6
ROADBERM1	3364.00	945.68	122.1	2114.1	2115.1	1.02	3.0	1.21	2115.9	31.56	6.74	1.57	0.016	1.39	0.22	200	0.6
ROADBERM1	3336.00	974.30	122.1	2113.8	2114.9	1.03	3.0	1.22	2115.5	31.58	6.65	1.54	0.016	1.38	0.22	200	0.6
ROADBERM1	3310.00	999.86	122.1	2113.6	2114.6	1.03	3.0	1.21	2115.3	31.58	6.65	1.54	0.016	1.38	0.22	200	0.6
ROADBERM1	3287.00	1022.66	122.1	2113.2	2114.2	1	3.0	1.22	2115	31.52	6.96	1.65	0.016	1.41	0.24	200	0.6
ROADBERM1	3262.00	1047.66	122.1	2112.7	2113.7	0.94	3.0	1.21	2114.6	31.4	7.8	1.95	0.016	1.49	0.30	200	0.6
ROADBERM1	3237.00	1072.66	122.1	2112	2112.9	0.9	3.0	1.22	2114.1	31.29	8.63	2.26	0.016	1.57	0.36	200	0.5
ROADBERM1	3211.00	1099.46	122.1	2111	2111.9	0.86	3.0	1.21	2113.3	30.23	9.44	2.54	0.016	1.64	0.42	200	0.5
ROADBERM1	3187.00	1122.66	122.1	2110.1	2110.9	0.84	3.0	1.22	2112.5	29.54	9.89	2.7	0.016	1.68	0.45	200	0.5
ROADBERM1	3162.00	1147.66	122.1	2109.1	2109.9	0.82	3.0	1.21	2111.5	29.21	10.11	2.77	0.016	1.70	0.46	200	0.5
ROADBERM1	3137.00	1172.66	122.1	2108.1	2108.9	0.82	3.0	1.22	2110.5	29.11	10.18	2.79	0.016	1.71	0.47	200	0.5
ROADBERM1	3112.00	1197.66	122.1	2107.1	2107.9	0.82	3.0	1.21	2109.5	29.03	10.24	2.82	0.016	1.71	0.47	200	0.5
ROADBERM1	3087.00	1222.66	122.1	2106.1	2106.9	0.83	3.0	1.22	2108.5	29.02	10.25	2.82	0.016	1.71	0.47	200	0.5



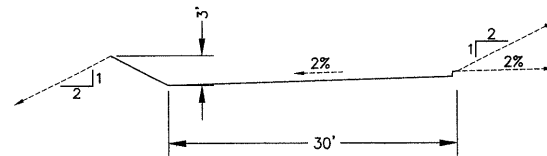
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LEGEND

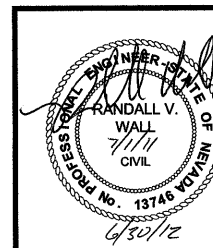
- AREA SHOWN TO RECEIVE 14-INCH EROSION LAYER. ALL OTHER AREAS TO RECEIVE 13-INCH EROSION LAYER.
- APPROX. LIMIT OF WASTE





NOTE

1. SEE SHEET B7 FOR DITCH AND BERM GEOMETRY



C-RD1
STA. 0+00 TO 12+25



	7/1/11	JP	REISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
	2/24/11	JP	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
	6/2/10	JP	ADDENDUM-ADJUSTED WEST BASIN CHANNEL GRADING	ML	AN	RW
	5/5/10	JP	ISSUED FOR BIDDING	ML	KH	RW
REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW



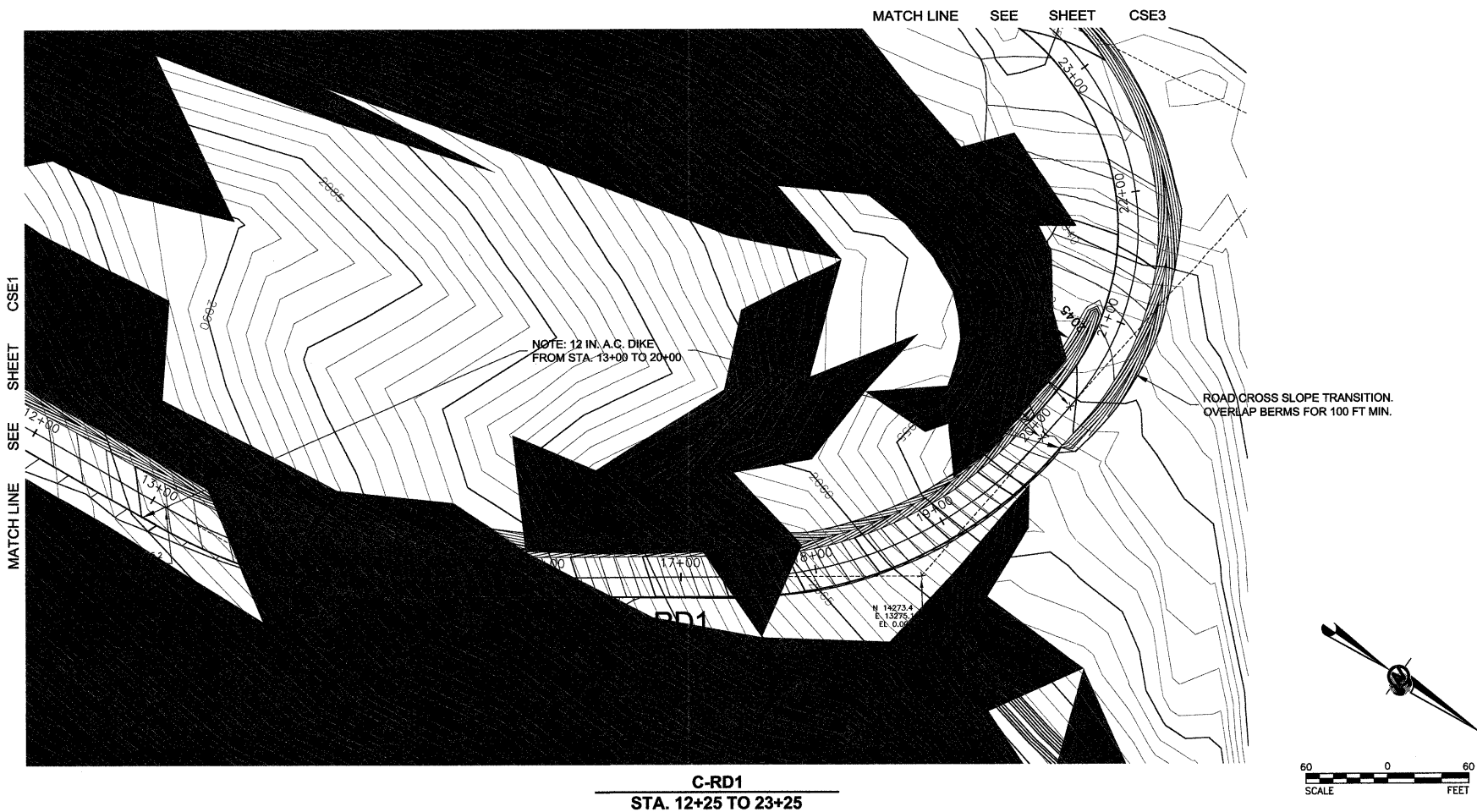
PROJECT
REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA

TITLE
C-RD1 STA. 0+00 TO 12+25

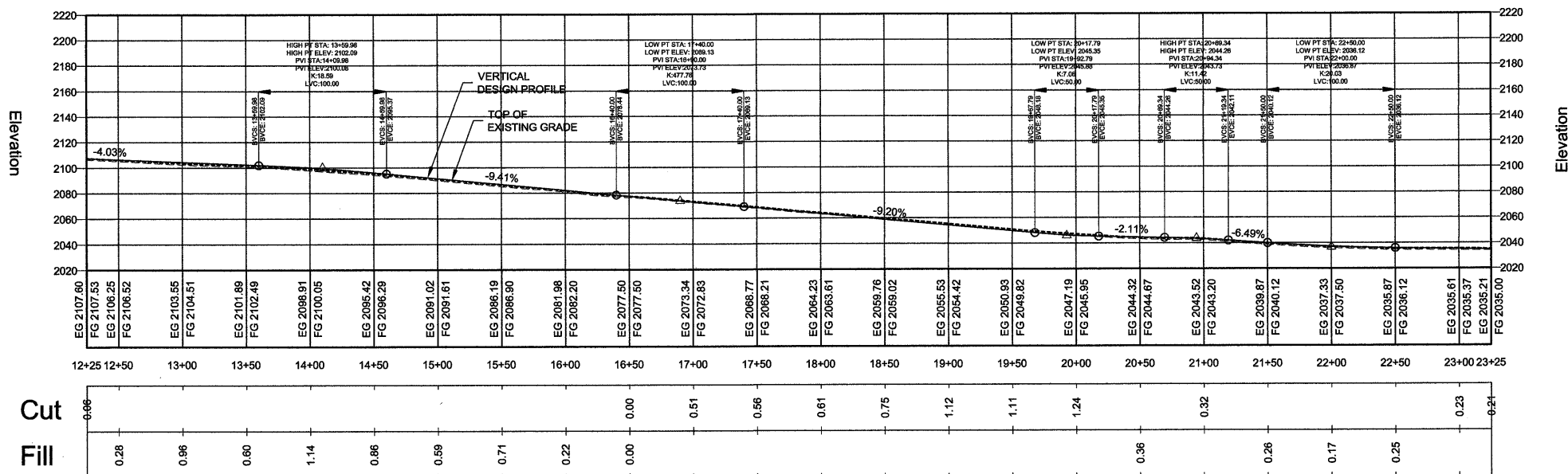


PROJECT No.	093-97432	FILE No.	093-97432
DESIGN	JP	2/24/11	SCALE AS SHOWN
CADD	ML	2/24/11	REV. 3
CHECK	AN	2/24/11	
REVIEW	RW	2/24/11	

CRD1



River	HEC-RAS River Station	Plan Station	Clear Flow (cfs)	Min Ch Elev (MSL)	W.S. Elev (MSL)	Flow Depth (ft)	Channel Depth (ft)	Critical Depth (ft)	E.G. Elev (MSL)	Top Width (ft)	Vel Chnl (ft/s)	Froude #	Manning's N	Controlling Freeboard (ft)	Max Super Elevation (ft)	Min Curve Radius 50 ft min	Excess Bank Freeboard (ft)
ROADBERM1	3062.00	1247.66	122.1	2105.07	2105.89	0.82	3.0	1.21	2107.52	29	10.26	2.82	0.016	1.71	0.47	200	0.5
ROADBERM1	3037.00	1272.66	122.1	2104.06	2104.88	0.82	3.0	1.22	2106.52	29	10.26	2.82	0.016	1.71	0.47	200	0.5
ROADBERM1	3012.00	1298.17	122.1	2103.05	2103.88	0.83	3.0	1.21	2105.49	29	10.2	2.8	0.016	1.71	0.47	200	0.5
ROADBERM1	2986.00	1324.08	122.1	2102.05	2102.87	0.82	3.0	1.22	2104.47	29.17	10.14	2.78	0.016	1.70	0.47	200	0.5
ROADBERM1	2960.00	1349.99	122.1	2100.98	2101.8	0.82	3.0	1.21	2103.43	29	10.26	2.82	0.016	1.71	0.47	200	0.5
ROADBERM1	2939.00	1370.71	122.1	2099.9	2100.7	0.8	3.0	1.22	2102.52	28.25	10.81	3.01	0.016	1.76	0.51	200	0.4
ROADBERM1	2913.00	1396.62	122.1	2098.26	2099.02	0.78	3.0	1.21	2101.15	27.15	11.71	3.33	0.016	1.85	0.58	200	0.4
ROADBERM1	2888.00	1422.53	122.1	2096.27	2097.01	0.74	3.0	1.22	2099.48	26.16	12.6	3.65	0.016	1.93	0.64	200	0.3
ROADBERM1	2862.00	1448.44	122.1	2093.98	2094.7	0.72	3.0	1.21	2097.49	25.38	13.4	3.94	0.016	2.01	0.71	200	0.3
ROADBERM1	2836.00	1474.35	122.1	2091.63	2092.34	0.71	3.0	1.22	2095.27	25.07	13.73	4.06	0.016	2.04	0.73	200	0.2
ROADBERM1	2811.00	1498.61	122.1	2089.43	2090.13	0.7	3.0	1.21	2093.11	24.97	13.84	4.1	0.016	2.05	0.74	200	0.3
ROADBERM1	2790.00	1520.20	122.1	2087.4	2088.1	0.7	3.0	1.22	2091.14	24.83	14	4.16	0.016	2.07	0.76	200	0.2
ROADBERM1	2765.00	1545.20	122.1	2085.04	2085.75	0.71	3.0	1.21	2088.81	24.77	14.06	4.18	0.016	2.07	0.76	200	0.2
ROADBERM1	2740.00	1570.20	122.1	2082.69	2083.39	0.7	3.0	1.22	2086.47	24.75	14.09	4.19	0.016	2.08	0.76	200	0.2
ROADBERM1	2715.00	1595.20	122.1	2080.34	2081.04	0.7	3.0	1.21	2084.12	24.75	14.09	4.19	0.016	2.08	0.76	200	0.2
ROADBERM1	2690.00	1620.20	122.1	2077.99	2078.69	0.7	3.0	1.22	2081.77	24.75	14.09	4.19	0.016	2.08	0.76	200	0.2
ROADBERM1	2665.00	1645.20	122.1	2075.64	2076.34	0.7	3.0	1.21	2079.42	24.75	14.09	4.19	0.016	2.08	0.76	200	0.2
ROADBERM1	2640.00	1670.20	122.1	2073.31	2074.01	0.7	3.0	1.22	2077.08	24.78	14.05	4.18	0.016	2.07	0.76	200	0.2
ROADBERM1	2615.00	1695.20	122.1	2070.99	2071.69	0.7	3.0	1.21	2074.75	24.8	14.03	4.17	0.016	2.07	0.76	200	0.2
ROADBERM1	2586.00	1723.69	122.1	2068.36	2069.07	0.71	3.0	1.22	2072.1	24.84	13.98	4.16	0.016	2.07	0.75	200	0.2
ROADBERM1	2564.00	1746.24	122.1	2066.39	2067.09	0.7	3.0	1.21	2070.04	25.03	13.77	4.08	0.016	2.04	0.74	200	0.3
ROADBERM1	2538.00	1772.45	122.1	2064.09	2064.79	0.7	3.0	1.22	2067.72	25.07	13.73	4.06	0.016	2.04	0.73	200	0.3
ROADBERM1	2511.00	1798.66	122.1	2061.79	2062.49	0.7	3.0	1.21	2065.42	25.07	13.73	4.06	0.016	2.04	0.73	200	0.3
ROADBERM1	2485.00	1824.87	122.1	2059.49	2060.2	0.71	3.0	1.22	2063.12	25.07	13.73	4.06	0.016	2.04	0.73	200	0.2
ROADBERM1	2464.00	1845.84	122.1	2057.65	2058.36	0.71	3.0	1.21	2061.28	25.07	13.73	4.06	0.016	2.04	0.73	200	0.2
ROADBERM1	2438.00	1872.05	122.1	2055.35	2056.06	0.71	3.0	1.22	2058.98	25.07	13.73	4.06	0.016	2.04	0.73	200	0.2
ROADBERM1	2412.00	1898.26	122.1	2053.05	2053.76	0.71	3.0	1.21	2056.68	25.07	13.73	4.06	0.016	2.04	0.73	200	0.2
ROADBERM1	2386.00	1924.47	122.1	2050.75	2051.46	0.71	3.0	1.22	2054.38	25.07	13.73	4.06	0.016	2.04	0.73	200	0.2
ROADBERM1	2365.00	1945.44	122.1	2048.91	2049.62	0.71	3.0	1.21	2052.54	25.07	13.73	4.06	0.016	2.04	0.73	200	0.2
ROADBERM1	2338.00	1971.65	122.1	2046.71	2047.43	0.72	3.0	1.22	2050.26	25.27	13.51	3.98	0.016	2.02	0.72	200	0.3
ROADBERM 1A	2318.00	1992.42	219.2	2045.29	2046.26	0.97	3.5	1.59	2049.02	31.45	13.34	3.25	0.016	2.20	0.87	200	0.3
ROADBERM 1A	2288.00	2021.85	219.2	2045.29	2046.48	1.19	3.5	1.59	2047.84	31.92	9.38	1.93	0.016	1.68	0.44	200	0.6
ROADBERM 1A	2263.00	2046.66	219.2	2044.64	2045.78	1.14	3.5	1.59	2047.37	31.8	10.14	2.17	0.016	1.77	0.51	200	0.6
ROADBERM 1A	2236.00	2074.48	219.2	2044.01	2045.13	1.12	3.5	1.59	2046.79	31.78	10.33	2.23	0.016	1.79	0.53	200	0.6
ROADBERM 1A	2212.00	2097.67	219.2	2043.37	2044.47	1.1	3.5	1.59	2046.25	31.72	10.71	2.35	0.016	1.84	0.56	200	0.6
ROADBERM 1A	2189.00	2120.86	219.2	2042.23	2043.25	1.02	3.5	1.59	2045.52	31.57	12.1	2.81	0.016	2.02	0.72	200	0.5
ROADBERM 1A	2161.00	2148.68	219.2	2040.32	2041.27	0.96	3.5	1.59	2044.22	31.41	13.79	3.42	0.016	2.27	0.93	200	0.3
ROADBERM 1A	2138.00	2171.87	219.2	2038.75	2039.69	0.94	3.5	1.59	2042.84	31.38	14.26	3.59	0.016	2.34	0.99	200	0.2
ROADBERM 1A	2110.00	2199.69	219.2	2037.26	2038.21	0.95	3.5	1.59	2041.16	31.41	13.79	3.42	0.016	2.27	0.93	200	0.3
ROADBERM 1A	2087.00	2222.88	219.2	2036.35	2037.34	0.99	3.5	1.59	2039.89	31.49	12.82	3.07	0.016	2.12	0.80	200	0.4
ROADBERM 1A	2064.00	2246.07	219.2	2035.76	2036.8	1.04	3.5	1.59	2038.9	31.62	11.62	2.65	0.016	1.96	0.66	200	0.5
ROADBERM 1A	2036.00	2273.89	219.2	2035.3	2036.43	1.13	3.5	1.59	2038.05	31.79	10.22	2.19	0.016	1.78	0.52	200	0.6
ROADBERM 1A	2013.00	2297.08	219.2	2034.93	2036.09	1.16	3.5	1.59	2037.56	31.86	9.74	2.04	0.016	1.73	0.47	200	0.6
ROADBERM 1A	1985.00	2324.90	219.2	2034.48	2035.65	1.17	3.5	1.59	2037.05	31.9	9.5	1.97	0.016	1.70	0.46	200	0.6

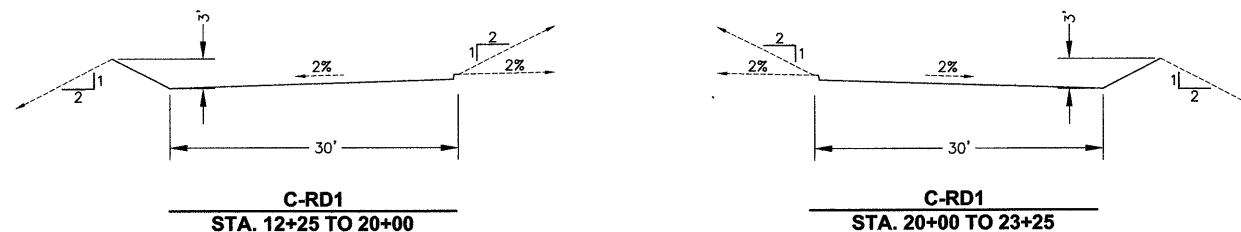






LEGEND

- AREA SHOWN TO RECEIVE 14-INCH EROSION LAYER.
ALL OTHER AREAS TO RECEIVE 13-INCH EROSION LAYER.
- APPROX. LIMIT OF WASTE

NOTE

1. SEE SHEET B7 FOR DITCH AND BERM GEOMETRY



	7/1/11	JP	REISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
	2/24/11	JP	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
	6/2/10	JP	ADDENDUM-ADJUSTED WEST BASIN CHANNEL GRADING	ML	AN	RW
	5/5/10	JP	ISSUED FOR BIDDING	ML	KH	RW
REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW



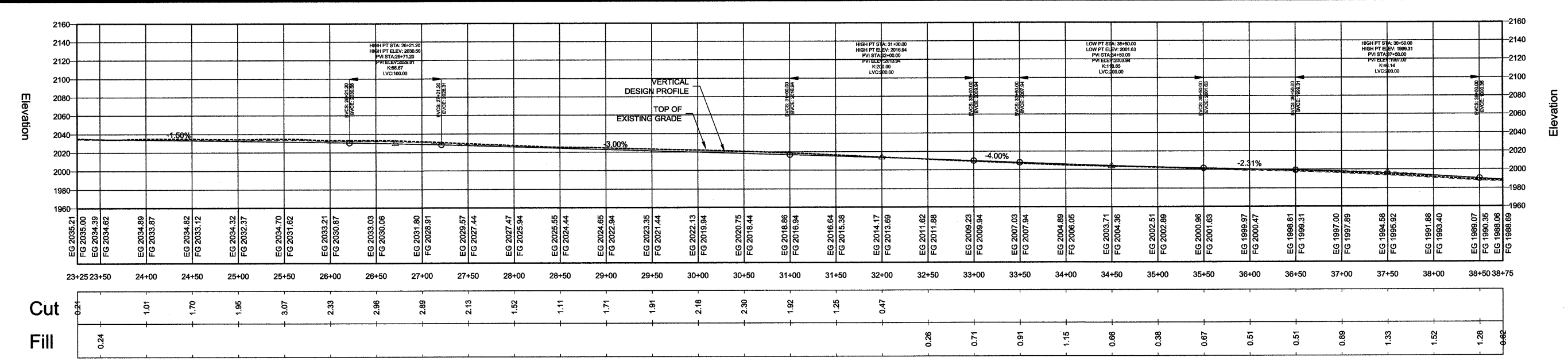
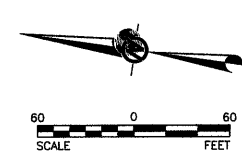
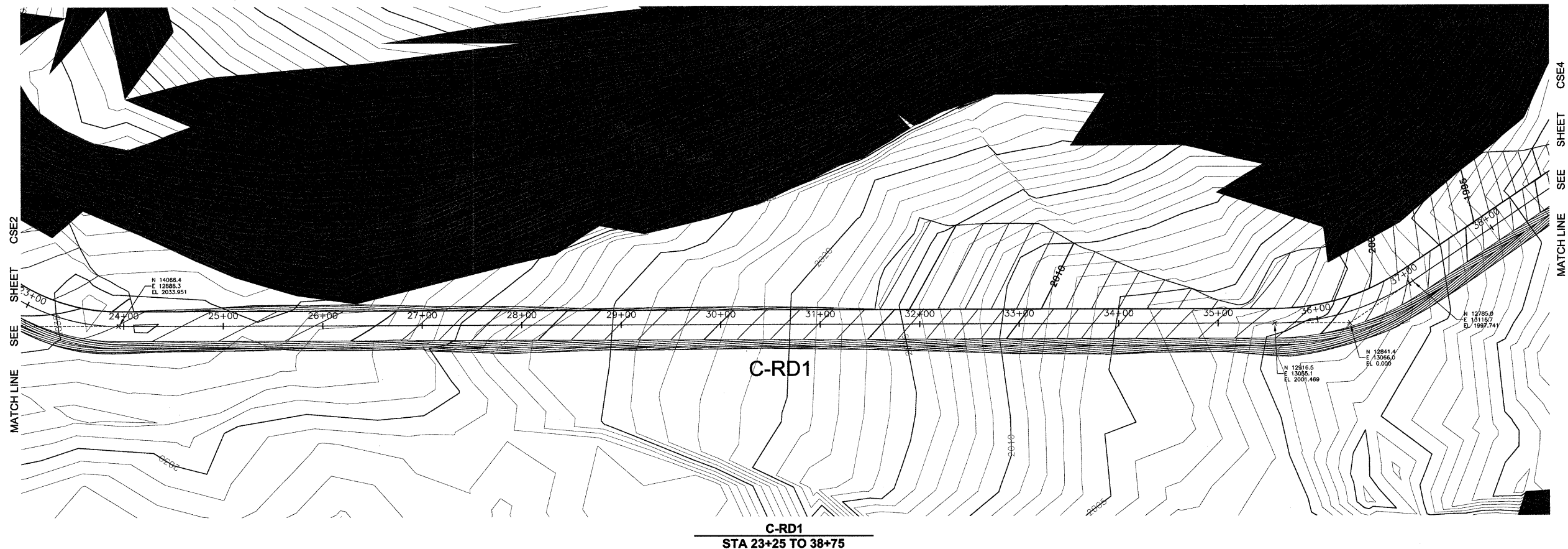
PROJECT
REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA

TITLE
C-RD1 STA. 12+25 TO 23+25

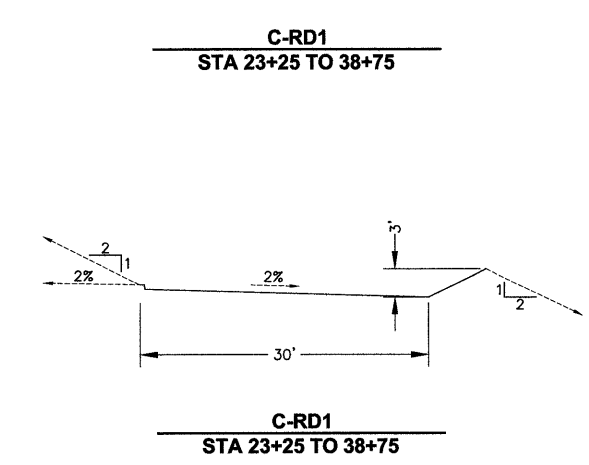


PROJECT No.	093-97432	FILE No.	093-97432
DESIGN	JP	2/24/11	SCALE AS SHOWN REV. 3
CADD	ML	2/24/11	
CHECK	AN	2/24/11	
REVIEW	RW	2/24/11	

CRD2



River	HEC-RAS River Station	Plan Station	Clear Flow (cfs)	Min Ch Elev (MSL)	W.S. Elev (MSL)	Flow Depth (ft)	Channel Depth (ft)	Critical Depth (ft)	E.G. Elev (MSL)	Top Width (ft)	Vel Chnl (ft/s)	Froude #	Manning s N	Controlling Freeboard (ft)	Max Super Elevation (ft)	Min Curve Radius 50 ft min (ft)	Excess Bank Freeboard (ft)
ROADBERM 1A	1985.00	2324.90	219.2	2034.5	2035.7	1.17	3.5	1.59	2037.1	31.9	9.5	1.97	0.016	1.70	0.48	200	0.6
ROADBERM 1A	1939.00	2371.28	219.2	2033.7	2034.9	1.17	3.5	1.59	2036.3	31.9	9.5	1.97	0.016	1.70	0.48	200	0.6
ROADBERM 1A	1840.00	2470.20	219.2	2032.2	2033.4	1.19	3.5	1.59	2034.8	31.94	9.28	1.9	0.016	1.67	0.43	200	0.6
ROADBERM 1A	1790.00	2520.20	219.2	2031.5	2032.7	1.19	3.5	1.59	2034	31.94	9.28	1.9	0.016	1.67	0.43	200	0.6
ROADBERM 1A	1740.00	2570.20	219.2	2030.7	2031.9	1.19	3.5	1.59	2033.3	31.94	9.28	1.9	0.016	1.67	0.43	200	0.6
ROADBERM 1A	1640.00	2670.20	219.2	2029	2030.1	1.14	3.5	1.59	2031.6	31.84	9.91	2.1	0.016	1.74	0.48	200	0.6
ROADBERM 1A	1590.00	2720.20	219.2	2027.6	2028.7	1.09	3.5	1.59	2030.5	31.71	10.85	2.4	0.016	1.86	0.58	200	0.6
ROADBERM 1A	1490.00	2820.20	219.2	2024.6	2025.7	1.08	3.5	1.59	2027.7	31.64	11.4	2.58	0.016	1.93	0.64	200	0.5
ROADBERM 1A	1440.00	2870.20	219.2	2023.1	2024.2	1.08	3.5	1.59	2026.2	31.64	11.44	2.59	0.016	1.93	0.64	200	0.5
ROADBERM 1A	1340.00	2970.20	219.2	2020.1	2021.2	1.08	3.5	1.59	2023.2	31.64	11.44	2.59	0.016	1.93	0.64	200	0.5
ROADBERM 1A	1290.00	3020.20	219.2	2018.6	2019.7	1.08	3.5	1.59	2021.7	31.64	11.44	2.59	0.016	1.93	0.64	200	0.5
ROADBERM 1A	1190.00	3120.20	219.2	2015.6	2016.6	1.08	3.5	1.59	2018.7	31.63	11.47	2.6	0.016	1.94	0.68	200	0.5
ROADBERM 1A	1140.00	3170.20	219.2	2013.9	2015	1.08	3.5	1.59	2017.1	31.61	11.68	2.67	0.016	1.97	0.67	200	0.5
ROADBERM 1A	1040.00	3270.20	219.2	2010.3	2011.3	1.02	3.5	1.59	2013.6	31.55	12.2	2.85	0.016	2.04	0.73	200	0.4
ROADBERM 1A	990.00	3320.20	219.2	2008.3	2009.3	1.01	3.5	1.59	2011.7	31.54	12.39	2.91	0.016	2.06	0.75	200	0.4
ROADBERM 1A	890.00	3420.20	219.2	2004.6	2005.6	1.03	3.5	1.59	2007.8	31.58	11.98	2.77	0.016	2.01	0.70	200	0.5
ROADBERM 1A	840.00	3470.20	219.2	2003	2004.1	1.05	3.5	1.59	2006.1	31.63	11.53	2.62	0.016	1.95	0.68	200	0.5
ROADBERM 1A	737.00	3573.57	219.2	2000.4	2001.5	1.09	3.5	1.59	2003.3	31.72	10.74	2.36	0.016	1.84	0.57	200	0.6
ROADBERM 1A	689.00	3620.67	219.2	1999.2	2000.3	1.1	3.5	1.59	2002.1	31.72	10.74	2.36	0.016	1.85	0.57	200	0.6
ROADBERM 1A	588.00	3721.66	219.2	1995.9	1996.9	1.03	3.5	1.59	1999.2	31.57	12.06	2.8	0.016	2.02	0.7	200	0.5
ROADBERM 1A	538.00	3771.66	219.2	1993.5	1994.5	0.98	3.5	1.59	1997.1	31.48	13.02	3.14	0.016	2.15	0.83	200	0.4
ROADBERM 1A	438.00	3871.66	219.2	1987.2	1988.2	0.93	3.5	1.59	1991.4	31.36	14.45	3.66	0.016	2.37	1.02	200	0.2



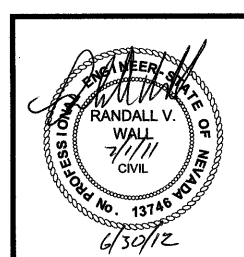
LEGEND

AREA SHOWN TO RECEIVE 14-INCH EROSION LAYER.
ALL OTHER AREAS TO RECEIVE 13-INCH EROSION LAYER.

----- APPROX. LIMIT OF WASTE

NOTE

1. SEE SHEET B7 FOR DITCH AND BERM GEOMETRY



7/1/11	JP	REISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW	
2/24/11	JP	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW	
6/2/10	JP	ADDENDUM--ADJUSTED WEST BASIN CHANNEL GRADING	ML	AN	RW	
5/5/10	JP	ISSUED FOR BIDDING	ML	KH	RW	
REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW

REPUBLIC SERVICES, INC.

PROJECT

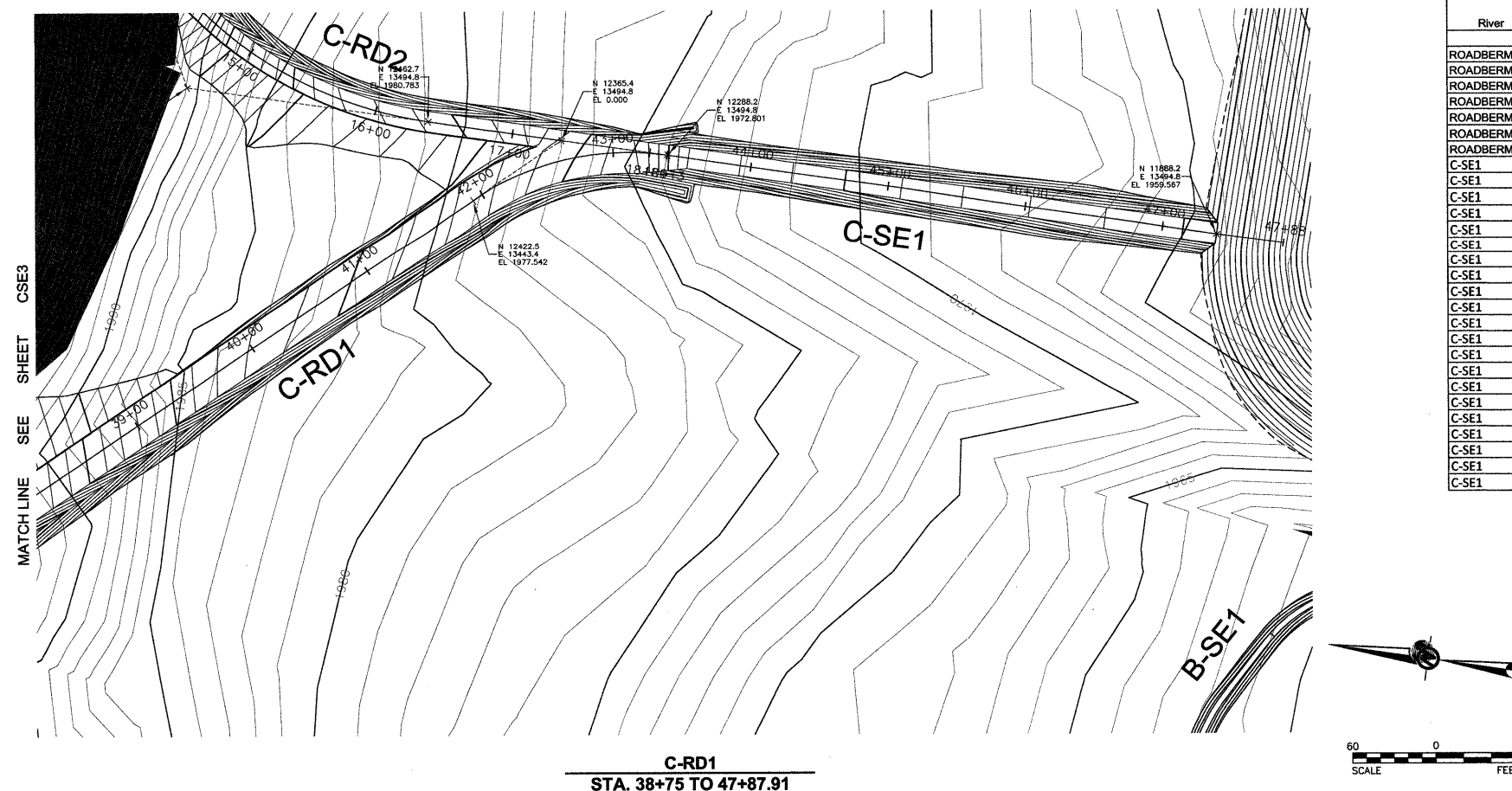
REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA

TITLE

C-RD1 STA 23+25 TO 38+75

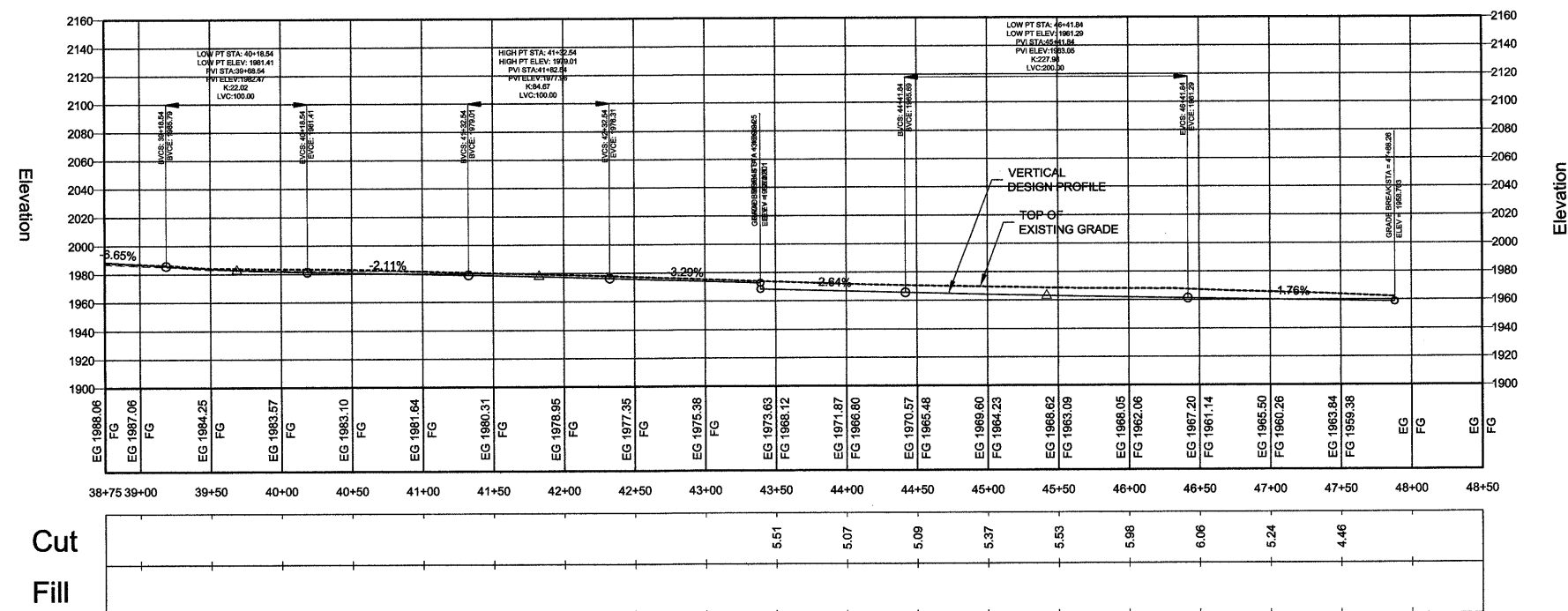
PROJECT No.	093-97432	FILE No.	093-97432
DESIGN	JP	2/24/11	SCALE AS SHOWN
CADD	ML	2/24/11	REV. 3
CHECK	AN	2/24/11	CRD3
REVIEW	RW	2/24/11	

Golder Associates
Sacramento, California



River	HEC-RAS River Station	Plan Station	Clear Flow (cfs)	Min Ch Elev (MSL)	W.S. Elev (MSL)	Flow Depth (ft)	Channel Depth (ft)	Critical Depth (ft)	E.G. Elev (MSL)	Top Width (ft)	Vel Chnl (ft/s)	Froude #	Manning's N	Controllin g Freeboar d (ft)	Max Super Elevation (ft)	Min Curve Radius 50 ft min (ft)	Excess Bank Freeboard (ft)
ROADBERM 1A	413.00	3896.66	219.2	1985.6	1986.5	0.92	3.5	1.59	1989.8	31.36	14.54	3.69	0.016	2.38	1.03	200	0.2
ROADBERM 1A	338.00	3971.66	219.2	1981.8	1982.7	0.99	3.5	1.59	1985.3	31.5	12.79	3.06	0.016	2.12	0.80	200	0.4
ROADBERM 1A	263.00	4046.66	219.2	1980	1981.1	1.12	3.5	1.59	1982.8	31.76	10.45	2.27	0.016	1.81	0.54	200	0.6
ROADBERM 1A	188.00	4121.66	219.2	1978.4	1979.5	1.12	3.5	1.59	1981.2	31.78	10.28	2.21	0.016	1.79	0.52	200	0.6
ROADBERM 1A	112.00	4198.32	219.2	1976.4	1977.5	1.08	3.5	1.59	1979.4	31.7	10.92	2.42	0.016	1.87	0.58	200	0.6
ROADBERM 1A	37.00	4273.39	219.2	1974.1	1975.2	1.05	3.5	1.59	1977.2	31.64	11.4	2.58	0.016	1.93	0.64	200	0.5
ROADBERM 1A	0.00	4310.12	219.2	1973	1974.1	1.05	3.5	1.59	1976.1	31.63	11.49	2.61	0.016	1.94	0.66	200	0.5
C-SE1	429.13	4354.40	297.4	1968.0	1969.4	1.41	3.5	2.08	1971.6	20.64	11.84	1.89	0.03	1.67	0.37	200	0.3
C-SE1	414.13	4369.40	297.4	1967.6	1969.2	1.56	3.5	2.08	1970.9	21.24	10.52	1.61	0.03	1.67	0.37	200	0.3
C-SE1	399.13	4384.40	297.4	1967.2	1968.8	1.61	3.5	2.08	1970.4	21.44	10.14	1.53	0.03	1.64	0.34	200	0.3
C-SE1	384.13	4399.40	297.4	1966.8	1968.4	1.62	3.5	2.08	1970	21.49	10.04	1.51	0.03	1.63	0.34	200	0.2
C-SE1	369.13	4414.40	297.4	1966.4	1968	1.62	3.5	2.08	1969.6	21.49	10.04	1.51	0.03	1.63	0.34	200	0.2
C-SE1	354.13	4429.40	297.4	1966.0	1967.6	1.63	3.5	2.08	1969.2	21.49	10.04	1.51	0.03	1.63	0.34	200	0.2
C-SE1	343.21	4440.32	297.4	1965.7	1967.3	1.63	3.5	2.08	1968.9	21.5	10.03	1.5	0.03	1.63	0.34	200	0.2
C-SE1	329.13	4454.40	297.4	1965.4	1967	1.66	3.5	2.08	1968.5	21.64	9.79	1.46	0.03	1.61	0.32	200	0.2
C-SE1	314.13	4469.40	297.4	1965.0	1966.6	1.65	3.5	2.08	1968.1	21.64	9.79	1.46	0.03	1.61	0.32	200	0.2
C-SE1	299.13	4484.40	297.4	1964.6	1966.3	1.66	3.5	2.08	1967.7	21.64	9.79	1.46	0.03	1.61	0.32	200	0.2
C-SE1	284.13	4499.40	297.4	1964.2	1965.9	1.67	3.5	2.08	1967.4	21.66	9.74	1.45	0.03	1.61	0.32	200	0.2
C-SE1	269.13	4514.40	297.4	1963.9	1965.6	1.67	3.5	2.08	1967	21.69	9.69	1.43	0.03	1.60	0.32	200	0.2
C-SE1	254.13	4529.40	297.4	1963.5	1965.2	1.69	3.5	2.08	1966.7	21.76	9.58	1.41	0.03	1.60	0.3	200	0.2
C-SE1	239.13	4544.40	297.4	1963.2	1964.9	1.7	3.5	2.08	1966.3	21.82	9.48	1.39	0.03	1.59	0.30	200	0.2
C-SE1	224.13	4559.40	297.4	1962.9	1964.6	1.71	3.5	2.08	1966	21.85	9.43	1.38	0.03	1.58	0.30	200	0.2
C-SE1	209.13	4574.40	297.4	1962.6	1964.3	1.73	3.5	2.08	1965.6	21.92	9.31	1.36	0.03	1.57	0.30	200	0.2
C-SE1	194.13	4589.40	297.4	1962.3	1964	1.75	3.5	2.08	1965.3	21.99	9.2	1.34	0.03	1.57	0.29	200	0.2
C-SE1	179.13	4604.40	297.4	1962.0	1963.7	1.75	3.5	2.08	1965	22.02	9.15	1.33	0.03	1.56	0.29	200	0.2
C-SE1	164.13	4619.40	297.4	1961.7	1963.5	1.78	3.5	2.08	1964.7	22.11	9.02	1.3	0.03	1.55	0.28	200	0.2
C-SE1	149.13	4634.40	297.4	1959.9	1961.6	1.72	3.5	2.08	1963	21.9	9.35	1.37	0.03	1.58	0.30	200	0.2
C-SE1	143.21	4640.32	297.4	1958.3	1960.1	1.8	3.5	2.08	1961.3	22.18	8.91	1.28	0.03	1.54	0.27	200	0.2

C-RD1/ C-SE1



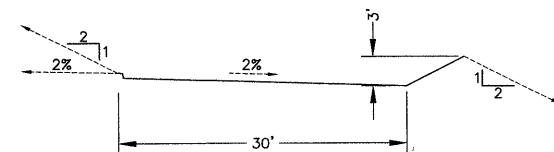
C-RD1 STA. 38+75 TO 43+19.25 C-SE1 STA. 43+19.25 TO 87.91

LEGEND

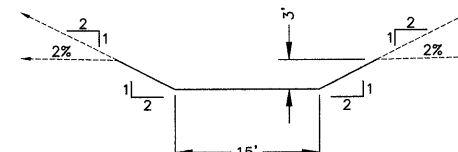
- AREA SHOWN TO RECEIVE 14-INCH EROSION LAYER. ALL OTHER AREAS TO RECEIVE 13-INCH EROSION LAYER.
- APPROX. LIMIT OF WASTE

NOTE

1. SEE SHEET B7 FOR DITCH AND BERM GEOMETRY



C-RD1 STA. 38+75 TO 43+19.25



C-SE1 STA. 43+39.25 TO 47+87.91

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RW
7/1/11	JP		REISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
3/10/11	JP		REVISED DITCH SECTIONS	ML	MB	RW
2/24/11	JP		ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
6/2/10	JP		ADDENDUM-ADJUSTED WEST BASIN CHANNEL GRADING	ML	AN	RW
5/5/10	JP		ISSUED FOR BIDDING	ML	KH	RW



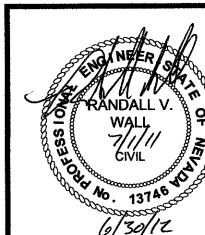
PROJECT
REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA

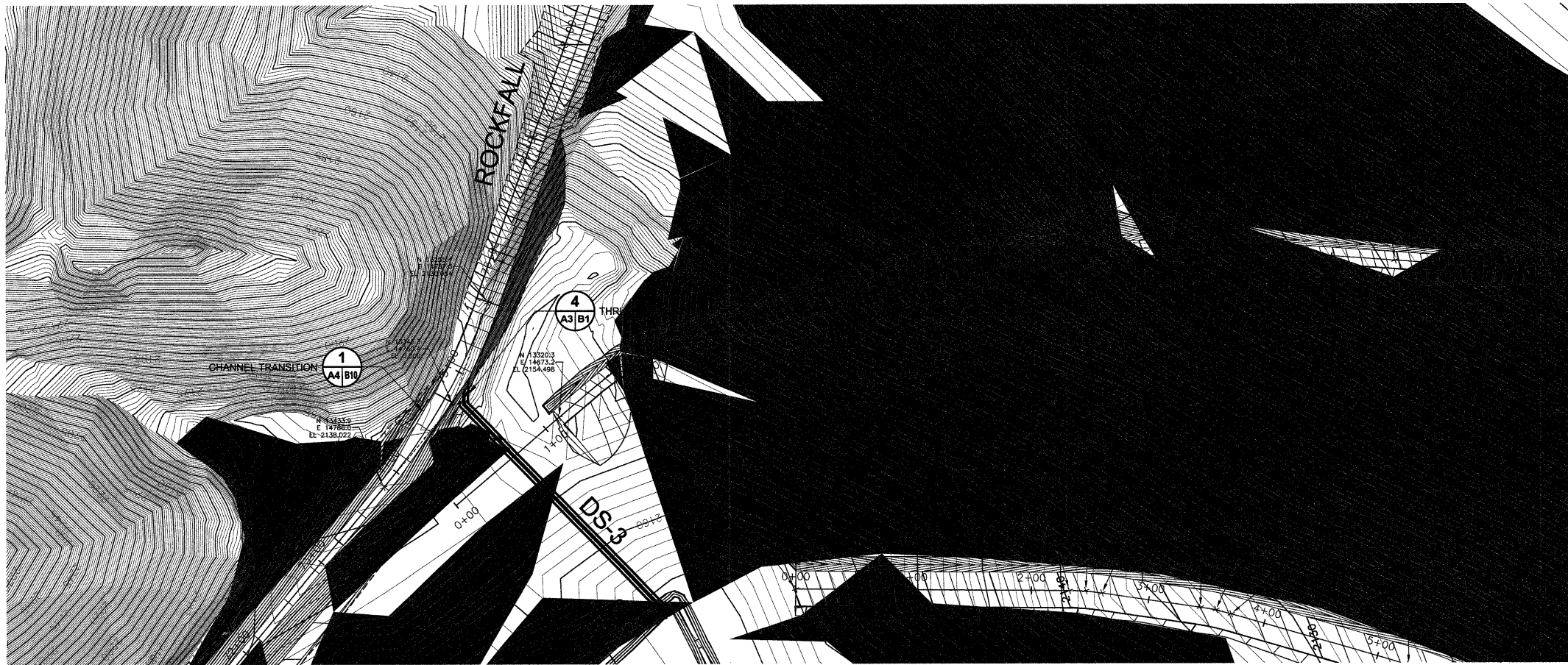
TITLE
C-RD1 STA. 38+75 TO 43+19.25
C-SE1 STA. 43+39.25 TO 47+87.91

PROJECT No.	093-97432	FILE No.	093-97432
DESIGN	JP	2/24/11	SCALE AS SHOWN
CADD	ML	2/24/11	REV. 3
CHECK	AN	2/24/11	
REVIEW	RW	2/24/11	

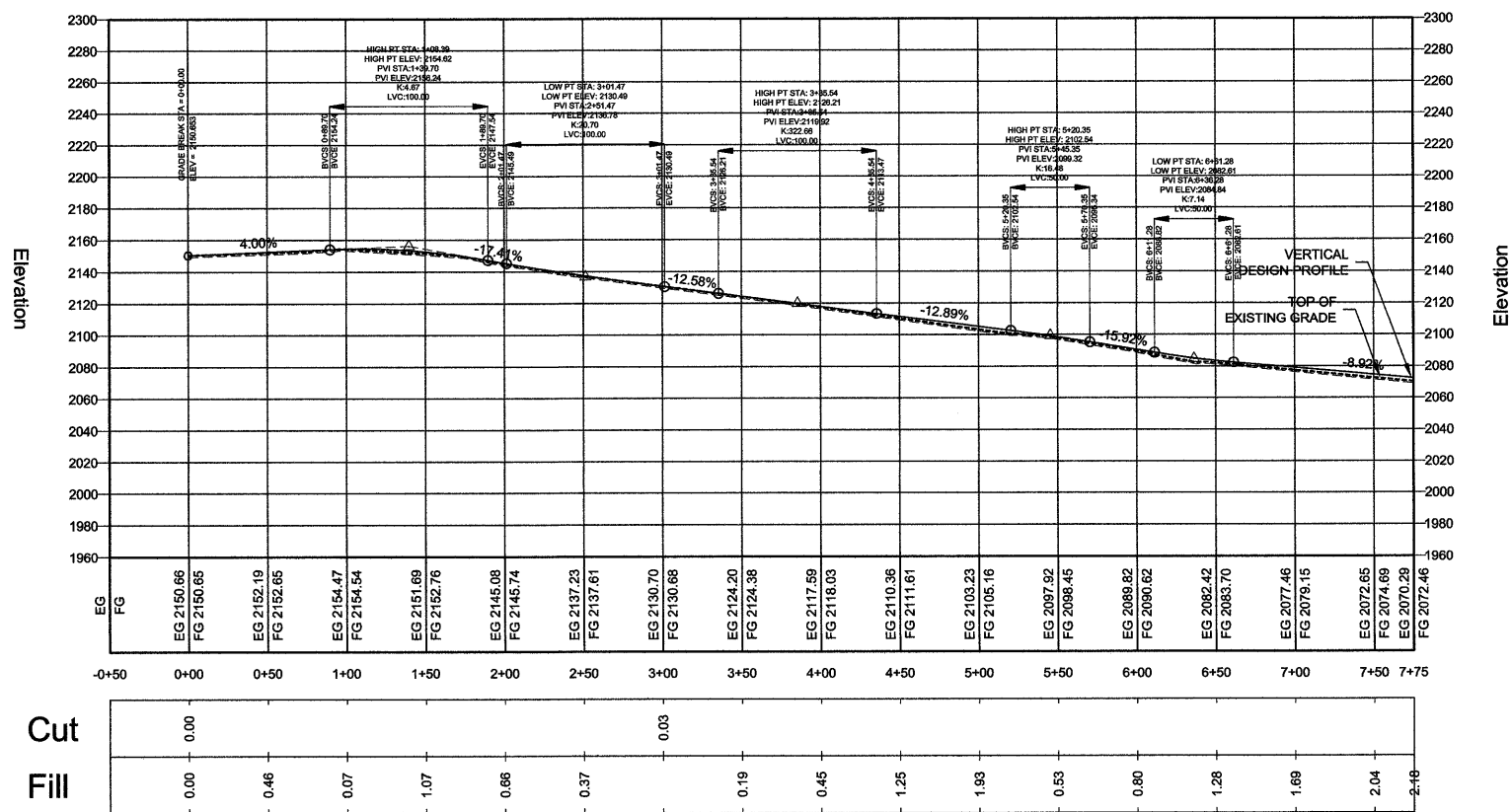


CRD4

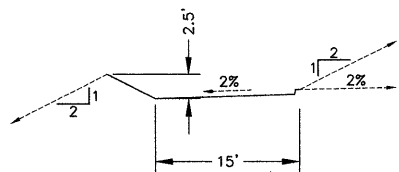




C-RD2
STA. 00+00 TO 7+75



C-RD2
STA. 00+00 TO 7+75



C-RD2
STA. 00+00 TO 7+75

Reach	HEC-RAS River Station	Plan Station	Clear Flow	Min Ch Elev	W.S. Elev	Flow Depth	Channel Depth	Critical Depth (ft)	E.G. Elev	Top Width	Vel Chnl	Froude #	Manning's N	Controlling Freeboard	Max Super Elevation	Min Curve Radius	Excess Bank Freeboard
Road/Berm 2	1693	115	72.6	2153.4	2154.17	0.75	2.5	1.16	2155.39	16.04	8.85	2.18	0.016	1.40	0.20	200	0.4
Road/Berm 2	1654	154	72.6	2149.5	2150.12	0.58	2.5	1.18	2152.67	15.69	12.8	3.75	0.016	1.67	0.40	200	0.3
Road/Berm 2	1615	203	72.6	2145.1	2145.68	0.57	2.5	1.15	2148.47	15.66	13.39	4.01	0.016	1.71	0.44	200	0.2
Road/Berm 2	1571	247	72.6	2140.2	2140.77	0.57	2.5	1.15	2143.59	15.65	13.48	4.05	0.016	1.72	0.44	200	0.2
Road/Berm 2	1531	286	72.6	2135.8	2136.37	0.57	2.5	1.16	2139.17	15.66	13.43	4.03	0.016	1.72	0.44	200	0.2
Road/Berm 2	1491	326	72.6	2130.5	2131.03	0.54	2.5	1.14	2134.22	15.61	14.32	4.43	0.016	1.79	0.50	200	0.2
Road/Berm 2	1451	366	72.6	2124.5	2125.08	0.54	2.5	1.15	2128.41	15.6	14.64	4.58	0.016	1.82	0.52	200	0.1
Road/Berm 2	1396	421	72.6	2116.4	2116.91	0.54	2.5	1.15	2120.24	15.59	14.65	4.58	0.016	1.82	0.52	200	0.1
Road/Berm 2	1362	456	72.6	2111.2	2111.71	0.54	2.5	1.15	2115.07	15.59	14.71	4.61	0.016	1.82	0.52	200	0.1
Road/Berm 2	1307	514	72.6	2103.1	2103.59	0.54	2.5	1.11	2106.94	15.59	14.7	4.6	0.016	1.82	0.52	200	0.1
Road/Berm 2	1262	559	72.6	2096.5	2097.01	0.54	2.5	1.15	2100.33	15.6	14.63	4.57	0.016	1.82	0.52	200	0.1
Road/Berm 2	1213	609	72.6	2089.2	2089.72	0.54	2.5	1.15	2093.04	15.6	14.63	4.57	0.016	1.82	0.52	200	0.1
Road/Berm 2	1168	653	72.6	2083.4	2084	0.56	2.5	1.15	2086.84	15.65	13.53	4.07	0.016	1.72	0.44	200	0.2
Road/Berm 2	1123	698	72.6	2079.3	2079.86	0.59	2.5	1.16	2082.36	15.7	12.69	3.71	0.016	1.68	0.39	200	0.3
Road/Berm 2	1089	733	72.6	2076.1	2076.67	0.59	2.5	1.16	2079.15	15.7	12.64	3.68	0.016	1.65	0.39	200	0.3
Road/Berm 2	1049	773	72.6	2072.4	2073.03	0.59	2.5	1.16	2075.51	15.7	12.65	3.69	0.016	1.66	0.39	200	0.3

NOTE: MIN CHANNEL ELEVATIONS MEASURED AT TOE OF BERM. PROFILE FG ELEVATIONS ARE AT CENTERLINE OF ROAD.

LEGEND

- AREA SHOWN TO RECEIVE 14-INCH EROSION LAYER. ALL OTHER AREAS TO RECEIVE 13-INCH EROSION LAYER.
- APPROX. LIMIT OF WASTE

NOTE

- SEE SHEET B7 FOR DITCH AND BERM GEOMETRY

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	R/W
1	7/1/11	JP	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
2	2/24/11	JP	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
3	6/2/10	JP	ADDENDUM-ADJUSTED WEST BASIN CHANNEL GRADING	ML	AN	RW
4	5/5/10	JP	ISSUED FOR BIDDING	ML	KH	RW



PROJECT
REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA

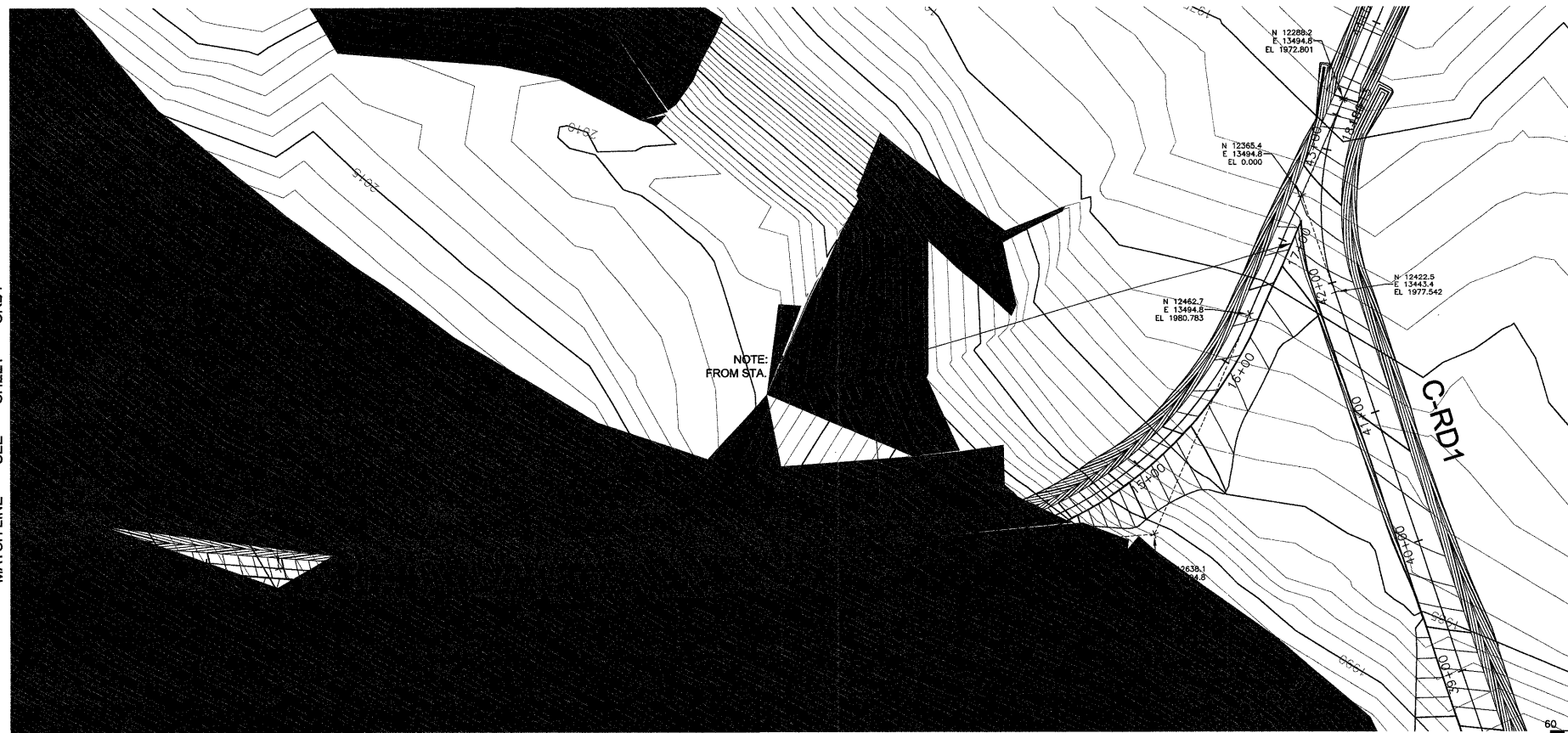
TITLE
C-RD2 STA. 00+00 TO 7+75



PROJECT No.	093-97432	FILE No.	093-97432
DESIGN	JP	2/24/11	SCALE AS SHOWN REV. 3
CADD	ML	2/24/11	
CHECK	AN	2/24/11	
REVIEW	RW	2/24/11	

CRD5

MATCH LINE SEE SHEET CRD1

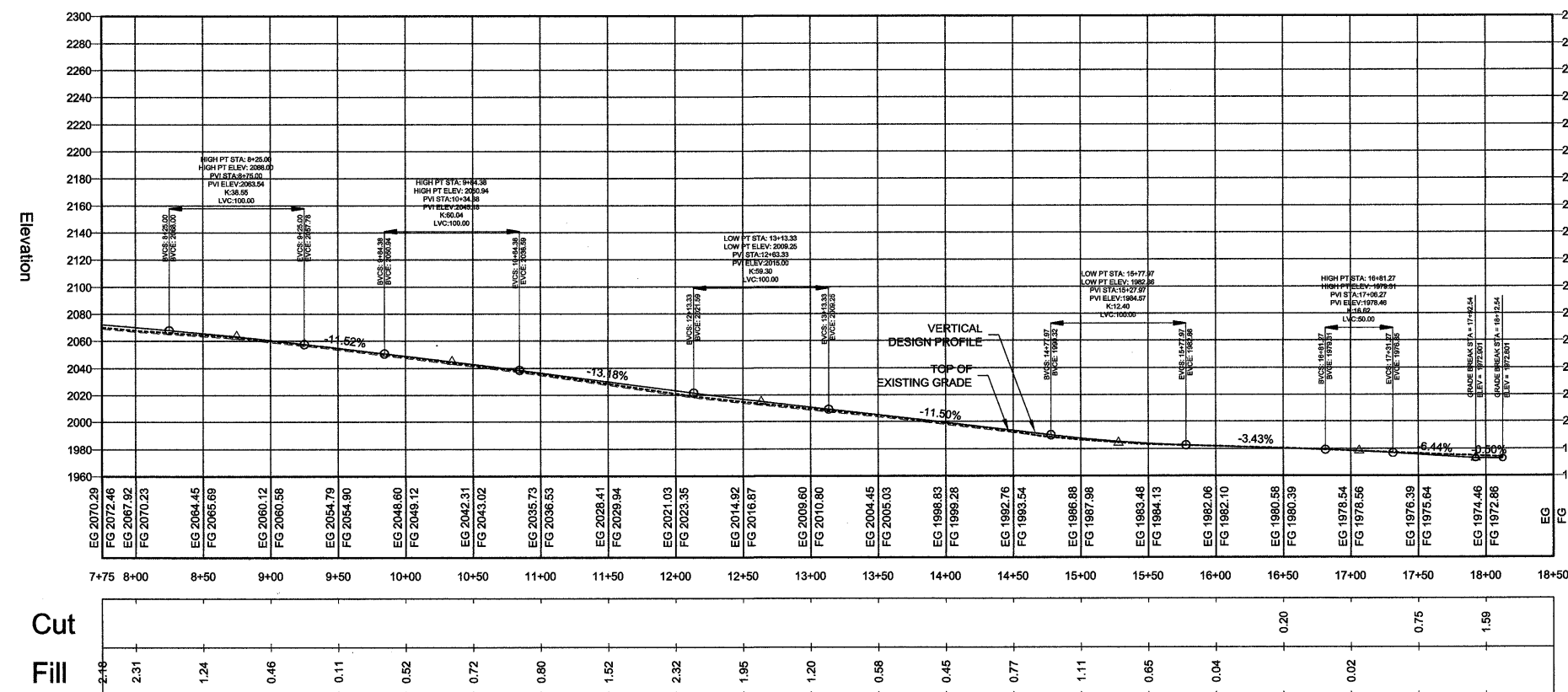


C-RD2
STA. 7+75 TO 18+12.54

Reach	HEC-RAS Station	Plan Station	Clear Flow	Min Ch Elev	W.S. Elev	Flow Depth	Channel Depth	Critical Depth (ft)	E.G. Elev	Top Width	Vel Chnl	Froude # Chl	Mannings N	Controlling Freeboard	Max Super Elevation	Min Curve Radius	Excess Bank Freeboard
Road/Berm 2	1003.74	817.55	72.6	2068.3	2068.93	0.59	2.5	1.16	2071.41	15.7	12.64	3.68	0.016	1.65	0.39	200	0.3
Road/Berm 2	963.74	857.55	72.6	2064.7	2065.29	0.59	2.5	1.14	2067.77	15.7	12.65	3.69	0.016	1.66	0.39	200	0.3
Road/Berm 2	933.64	887.64	72.6	2061.9	2062.47	0.59	2.5	1.14	2064.98	15.7	12.73	3.72	0.016	1.66	0.40	200	0.2
Road/Berm 2	888.48	932.80	72.6	2057.3	2057.84	0.57	2.5	1.15	2060.5	15.68	13.09	3.88	0.016	1.69	0.42	200	0.2
Road/Berm 2	803.18	1018.10	72.6	2047.4	2048	0.56	2.5	1.15	2050.94	15.64	13.76	4.18	0.016	1.74	0.46	200	0.2
Road/Berm 2	758.02	1065.80	72.6	2041.2	2041.71	0.55	2.5	1.16	2044.97	15.6	14.5	4.51	0.016	1.81	0.51	200	0.1
Road/Berm 2	727.92	1095.91	72.6	2036.5	2036.98	0.53	2.5	1.16	2040.44	15.58	14.92	4.7	0.016	1.84	0.54	200	0.1
Road/Berm 2	692.79	1131.03	72.6	2030.8	2031.31	0.53	2.5	1.15	2034.82	15.58	15.04	4.76	0.016	1.85	0.55	200	0.1
Road/Berm 2	657.71	1166.12	72.6	2025.1	2025.64	0.53	2.5	1.15	2029.15	15.58	15.03	4.76	0.016	1.85	0.55	200	0.1
Road/Berm 2	622.71	1201.12	72.6	2019.8	2020.34	0.54	2.5	1.16	2023.66	15.6	14.62	4.57	0.016	1.82	0.52	200	0.1
Road/Berm 2	587.71	1236.12	72.6	2015.3	2015.84	0.55	2.5	1.15	2018.82	15.63	13.85	4.22	0.016	1.75	0.47	200	0.2
Road/Berm 2	552.71	1271.12	72.6	2011.6	2012.15	0.58	2.5	1.15	2014.8	15.68	13.06	3.87	0.016	1.69	0.42	200	0.2
Road/Berm 2	477.16	1346.67	72.6	2004.3	2004.92	0.58	2.5	1.16	2007.47	15.69	12.79	3.75	0.016	1.67	0.40	200	0.3
Road/Berm 2	431.10	1382.73	72.6	1999.9	2000.44	0.58	2.5	1.16	2003.03	15.69	12.93	3.81	0.016	1.68	0.41	200	0.2
Road/Berm 2	400.39	1423.43	72.6	1996.6	1997.19	0.58	2.5	1.16	1999.88	15.67	13.17	3.91	0.016	1.70	0.42	200	0.2
Road/Berm 2	323.62	1500.20	72.6	1987.8	1988.4	0.57	2.5	1.16	1991.22	15.65	13.47	4.05	0.016	1.72	0.44	200	0.2
Road/Berm 2	287.79	1536.03	72.6	1984.5	1985.11	0.59	2.5	1.15	1987.5	15.72	12.4	3.58	0.016	1.64	0.38	200	0.3
Road/Berm 2	246.85	1576.97	72.6	1982.0	1982.63	0.65	2.5	1.16	1984.43	15.84	10.76	2.9	0.016	1.52	0.28	200	0.3
Road/Berm 2	211.03	1612.80	72.6	1980.6	1981.34	0.71	2.5	1.18	1982.76	15.96	9.56	2.44	0.016	1.44	0.23	200	0.4
Road/Berm 2	175.20	1648.62	72.6	1979.1	1979.75	0.7	2.5	1.15	1981.24	15.93	9.81	2.54	0.016	1.46	0.24	200	0.3
Road/Berm 2	166.52	1657.30	72.6	1978.8	1979.58	0.74	2.5	1.15	1980.84	16.02	9.02	2.24	0.016	1.41	0.20	200	0.4
Road/Berm 2	165.00	1658.82	72.6	1978.8	1979.52	0.73	2.5	1.15	1980.8	16.01	9.08	2.26	0.016	1.41	0.20	200	0.4
Road/Berm 2	160.00	1663.82	72.6	1978.7	1979.46	0.76	2.5	1.15	1980.61	16.07	8.61	2.1	0.016	1.38	0.18	200	0.4
Road/Berm 2	155.00	1668.82	72.6	1978.6	1979.4	0.78	2.5	1.15	1980.47	16.1	8.32	1.99	0.016	1.36	0.17	200	0.4
Road/Berm 2	150.00	1673.82	72.6	1978.6	1979.46	0.84	2.5	1.16	1980.31	16.25	7.39	1.68	0.016	1.31	0.14	200	0.3

NOTE: MIN CHANNEL ELEVATIONS MEASURED AT TOE OF BERM. PROFILE FG ELEVATIONS ARE AT CENTERLINE OF ROAD.

ROAD / BERM 2



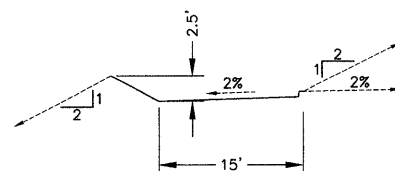
Cut
Fill

LEGEND

- AREA SHOWN TO RECEIVE 14-INCH EROSION LAYER.
- ALL OTHER AREAS TO RECEIVE 13-INCH EROSION LAYER.
- APPROX. LIMIT OF WASTE

NOTE

- SEE SHEET B7 FOR DITCH AND BERM GEOMETRY



C-RD2
STA. 7+75 TO 17+92.93

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	R/W
1	7/1/11	JP	REISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
2	2/24/11	JP	ISSUED FOR PERMITTING/CONSTRUCTION	ML	MB	RW
3	6/2/10	JP	ADDENDUM-ADJUSTED WEST BASIN CHANNEL GRADING	ML	AN	RW
4	5/5/10	JP	ISSUED FOR BIDDING	ML	KH	RW



PROJECT
REPUBLIC SERVICES, INC.
SUNRISE MOUNTAIN LANDFILL
LAS VEGAS, NEVADA

TITLE
C-RD2 STA. 7+75 TO 18+12.54

PROJECT No.	093-97432	FILE No.	093-97432
DESIGN	JP	2/24/11	SCALE AS SHOWN
CADD	ML	2/24/11	REV. 3
CHECK	AN	2/24/11	
REVIEW	RW	2/24/11	



CRD6