

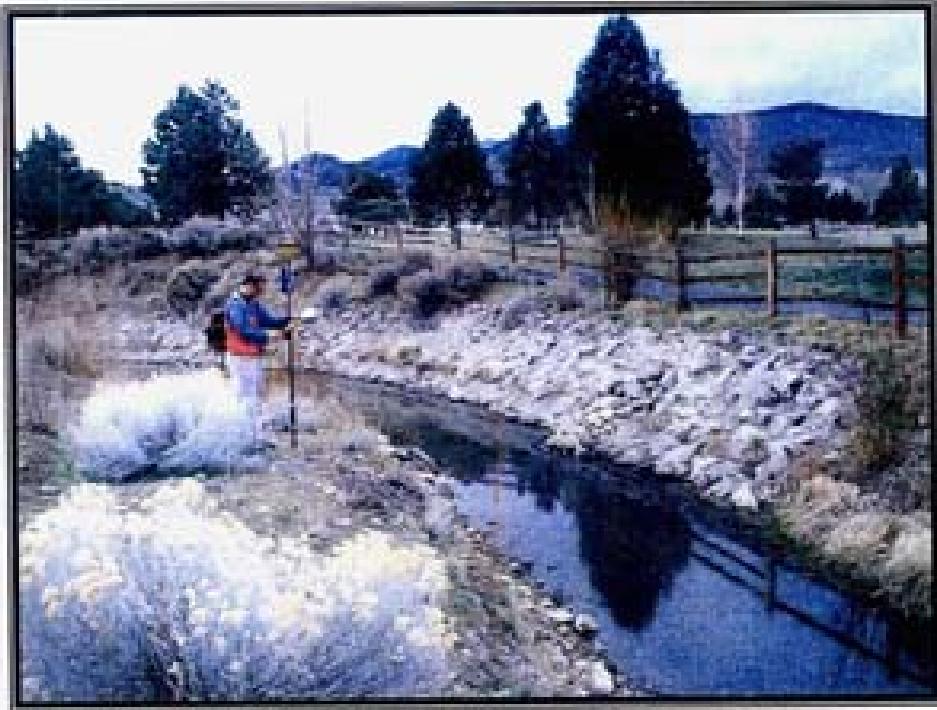
**LAST CHANCE DITCH  
SURVEY - DECEMBER 2003**

# Ditch Survey

For:

## Last Chance Ditch

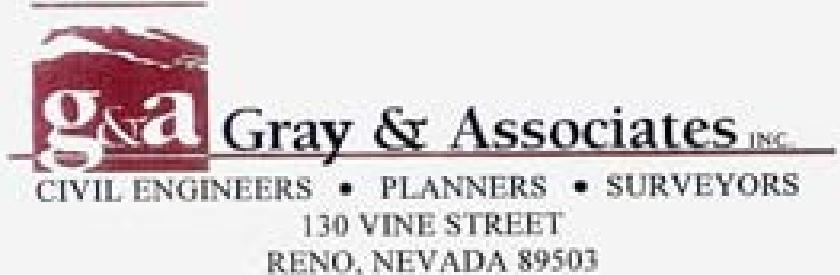
RETURN TO  
GENO TORTELLI  
WHEN THEY  
6/08  
RENO PUB WORKS



*Prepared for:*

City of Reno, Public Works Department  
P.O. Box 1900  
Reno, Nevada 89505

*Prepared by:*



December 2, 2003



October 7, 2003

R013-02097.01

Howard Sund  
City of Reno Public Works  
350 South Center Street, Suite #408  
Reno, NV 89501

RE: Reno Irrigation Ditches

Dear Mr. Sund:

I have completed the wet assessment portion of the Reno Irrigation Ditch Study. In the wet assessment I visited the locations of the ditch connection points that were given a first priority rating in the original Capital Improvement Plans. After reviewing those points, I chose to lower the rating on a few, and reassessed the importance level on others.

As you requested, I have ranked the first priority repairs in order of urgency. The following is the ranking with a short discussion on each:

| Rank | Point Number | Recommended Action And Discussion  | Location   |
|------|--------------|--|--|
| 1    | 1116         | Construct concrete or masonry wall to stabilize slope.<br>This is a sanitary sewer main that was originally constructed in the slope from the north side of Gibraltar to the Steamboat Ditch. The soil is loose and unstable and has sloughed off of the pipe, exposing +/- 50 feet. In one point, the slope below the pipe is almost vertical. The reason that this was given the highest priority level is the risk related to a sewage spill. If only one improvement can be immediately capitalized, it is this one. | North of westbound Gibraltar Drive, roughly 500 feet west of Cashill |
| 2    | 1043         | Riprap channel 50+- ft downstream of grouted riprap.   | McCarran Blvd., east side  |
| 2    | 1044         | Construct cutoff wall upstream of drop.<br>Stabilize vertical face with concrete or masonry wall.<br>Construct splash pad in flowline.<br>The Steamboat Ditch was lined with concrete upstream and downstream of the West McCarran Blvd. crossing. The velocity in the concrete section is fairly high. The concrete section ends at a segment of the ditch that is cut  | McCarran Blvd., east side  |

|   |      |  |                    |
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|   |      | <p>into a relatively unstable slope. Inadequate flowline protection was installed at the interface between the concrete section and the natural section. A large scour hole has developed. Compounding the erosion problem at this location is the road cut for West McCarran Blvd. The flowlines in the benches for the road cut were lined with Enkamat. At the time that the construction was done, geofabrics were still fairly new, and the installation probably wasn't very well done. Ultimately, the geofabric did not do its job to eliminate erosion, and there has been some major headward erosion at the connection with the Steamboat Ditch.</p> <p>The improvements for the flowline of the Steamboat Ditch and the roadcut damage should probably be performed simultaneously since each problem exacerbates the other. That is why both points 1043 and 1044 were listed as priority 2.</p>  |                    |
| 3 | 3137 | <p>Construct headwall and riprap to flowline of ditch. This is the outfall from a culvert carrying runoff from a large wash. The City of Reno constructed a small detention pond at the intersection of Moana Lane and Pioneer Drive, so the peak flows are probably not as great as the 36 inch culvert implies, but there needs to be some level of erosion protection, regardless. It is clear that there has been erosion in storm events.</p>   | Washoe Golf Course |
| 4 | 1048 | Construct headwall and riprap to flowline.   | Ashfork Drive      |
| 4 | 1050 | <p>Repair undermined/separated pipe sections.</p> <p>Construct headwall and riprap to flowline of ditch.</p> <p>Construct Curb on existing access road from Ashfork to route surface drainage into existing drop inlet at east end of access road.</p> <p>Point 1048 is a storm drain from Greensburg Circle, and Point 1050 is a storm drain from Ashfork Drive/Bridgewater Drive. Both drains end well above the flowline of the Steamboat Ditch and runoff freefalls into the ditch. Point 1050 is being undermined because of surface runoff from the storm drain access road and is a hazard. Both of the outfall improvements as well as improvements to the storm drain access road should be performed at the same time to ensure complete protection of the Steamboat Ditch. The city might consider routing the 24" culvert under the ditch and discharging runoff into the wash that it would naturally enter. If this option is considered, a major hydrology study would need to be undertaken to ensure protection of downstream properties.</p> | Ashfork Drive      |

|    |      |  |   |
|----|------|--|---|
| 5  | 2094 | <p>Riprap from Plumb Lane to flowline of ditch. There is no curb &amp; gutter in this section of Plumb Lane. Runoff from the north side of Plumb Lane, east of Point 2094 travels west through a widened area north of the shoulder of Plumb Lane. It eventually reaches a point where it turns north and discharges, overland, into the Last Chance Ditch. The grade is quite steep from Plumb Lane to the Last Chance Ditch, and the erosion is significant. Since there is no curb &amp; gutter in this section of Plumb Lane to contain runoff, it would be difficult to collect runoff in a pipe. Ultimately, if curb &amp; gutter is constructed on Plumb Lane, this would be a more desirable solution. Until that time, erosion could be minimized by riprapping the channel from Plumb Lane to the Last Chance Ditch.</p> | Plumb Lane east of Homewood                             |
| 6  | 1076 | <p>Construct headwall and riprap to flowline. This is a storm drain outfall from the intersection of Susileen Drive and Markridge Drive. It discharges down a very steep slope from Susileen Drive into the Steamboat Ditch. There is significant erosion. This section of Susileen is very narrow and there is a 3 ft +/- vertical drop-off right at the eastern edge of pavement. The City may want to consider making these improvements a part of a larger public works project. Susileen probably needs a new retaining wall on its east edge along with a guardrail. If a retaining wall is to be installed, it can act as a headwall for the storm drain.</p>   | Susileen Drive at Markridge Dr.                         |
| 7  | 3101 | <p>Construct headwall and riprap to flowline of ditch. Clean up broken storm drain pipe. This is the outfall for public storm drain from the intersection of Oreana Drive and Golconda Drive.</p>  | 2200 Oreana Drive Reno, NV 89509 Gloria G. Brown Trust  |
| 8  | 1143 | <p>Hydraulic analysis required. Major erosion due to overtopping of ex. DI at top of slope. No apparent source of surface runoff to ex. DI indicates that erosion is due to surcharging of upstream storm drain causing discharge from ex. DI.</p> <p>This was moved lower on the priority list since the origin of the erosion is in question. If a hydrology study is done and it is determined that runoff chronically discharges out of the DI, this can be moved up on the priority list.</p>   | Cuesta Apartments, Skyline Drive                        |
| 9  | 2150 | <p>Construct headwall and riprap to flowline of ditch. Public drainage from Reanon Court. Small watershed.</p>   | Private Residence 3150 Reanon Ct. Stephan & Judy McCabe |
| 10 | 4220 | <p>Construct headwall and riprap to flowline. This was made lowest priority due to preliminary field</p>   | Elks Lodge  |



|  |  |  |  |
|--|--|--|--|
|  |  | investigation. Field investigation indicated that this might not, in fact, be a storm drainpipe. It may be a remnant irrigation pipe from when this area was an irrigated pasture. City records may provide information on origin of pipe. |  |
|--|--|--|--|

Point 3090 was originally listed as a first priority on the CIP. I chose to remove it from the CIP since it is the outfall for Hunter Creek reservoir. It appears that the Lake Ditch Company has rights to a diversion from Hunter Creek. There are also boulders placed in the flowline to protect the ditch.

At this point, I believe that we should schedule a meeting to decide what our next step should be. Please feel free to call at any time.

Sincerely,  
Gray & Associates

Edward C. Thomas, P.E.  
Project Manager



| STEAMBOAT DITCH - CAPITAL IMPROVEMENT PLAN |        |  |   |
|--|--------|--|---|
| 5-POINT RATING SYSTEM                      |        |  |   |
| 1 = IMMEDIATE ACTION REQUIRED              |        |  |   |
| 5 = NO ACTION NECESSARY                    |        |  |   |
| PAGE 1                                     |        |  |   |
| POINT NO.                                  | RATING | COMMENTS                                 | RECOMMENDED ACTION  |
| 1006                                       | 5      | (Woodchuck Ln.)                          | None  |
| 1009                                       | 3      | Private Yard Drain Erosion               | Rip-rap to flowline of ditch  |
| 1010                                       | 5      | (Frankovich Ct.)                         | None  |
| 1012                                       | 3      | Weser Ln.                                | Construct headwall  |
| 1014                                       | 5      | Path X-ing                               | None  |
| 1016                                       | 5      | (Caughlin Parkway)                       | None  |
| 1017                                       | 2      | Promotory From MH in Street              | Construct concrete or rock splashpad in flowline  |
| 1020                                       | 5      | Pathway to SS Access                     | None  |
| 1024                                       | 5      | (Bitterroot) with 12" SD to Box          | None  |
| 1026                                       | 5      | Inlet though box culvert                 | None  |
| 1028                                       | 5      | Foot Path                                | None  |
| 1029                                       | 5      | (Alum Creek)                             | None  |
| 1030                                       | 5      | (Buck Creek rd.)                         | None  |
| 1031                                       | 5      | Inlet though headwall                    | None  |
| 1032                                       | 5      | (Quilici) 1 1/2" Conduit through culvert | None  |
| 1033                                       | 5      | Though headwall of box                   | None  |
| 1034                                       | 5      | Rockery Drain                            | None  |
| 1035                                       | 5      |  | None  |
| 1038                                       | 4      | (Caughlin Creek)                         | Construct cutoff wall on upstream side  |
| 1042                                       | 5      |  | None  |
| 1043                                       | 1      | End Conc. Sect.                          | Rip-rap channel 50+- downstream of grouted rip-rap  |
| 1044                                       | 1      | Erosion                                  | Construct cutoff wall upstream of drop  |
|  |        |  | Stabilize vertical face with concrete or masonry wall   |
|  |        |  | Construct splash pad in flowline  |
| 1048                                       | 1      | 12" RCP                                  | Construct headwall and rip-rap to flowline  |
| 1050                                       | 1      | 24" RCP                                  | Repair undermined/separated pipe sections, construct headwall and rip-rap to flowline of ditch, construct curb on existing access road from Ashfork to route surface drainage into existing drop inlet at east end of access road |
| 1051                                       | 4      |  | Rip-rap to flowline of ditch  |
| 1053                                       | 5      | (Southampton) 12" RCP side of box        | None  |
| 1055                                       | RCB    | (Southampton) Outlet end                 | Rip-rap to flowline of ditch  |
| 1056                                       | 4      | Wash from S. Hampton.                    | Monitor future upstream development to ensure that steps are taken to minimize erosion at this location   |
| 1057                                       | 5      | (Meridian) upstream 12" entering Box     | None  |
| 1059                                       | 5      | (Meridian) downstream                    | None  |
| 1076                                       | 1      | Susileen at Markridge                    | Construct headwall and rip-rap to flowline  |
| 1077                                       | 4      |  | Remove grout and rip-rip to flowline  |
| 1078                                       | 2      |  | Remove grout, backfill undermined soil, and rip-rap to flowline   |
| 1081                                       | 5      | (Markridge)                              | None  |
| 1084                                       | 4      | photo says 1085b                         | Construct headwall and rip-rap to flowline  |
| 1085b                                      | 3      |  | Construct headwall and splash pad in flowline   |
| 1086                                       | 3      |  | Re-construct headwall and rip-rap to flowline   |
| 1087                                       | 5      | (Marthiam) inlet end                     | None  |
| 1088                                       | 5      | photo says 1089 outlet end               | None  |
| 1089                                       | 2      |  | Construct headwall and splash pad in flowline   |
| 1090                                       | 5      | (Belford) Upstream                       | None  |
| 1092                                       | 5      | (Belford) Downstream                     | None  |
| 1093                                       | 4      | Possible SD connect                      | Miter pipe to slope and rip-rap to flowline   |
| 1101                                       | 4      | (Cashill)                                | Construct wingwalls   |

|       |   |  |   |
|-------|---|--|---|
| 1104  | 5 | Headwall 10'                           | None  |
| 1106  | 4 | 12" steel pipe overcrossing ditch      | Repair failing pipe anchorages  |
| 1107  | 3 | Ditch enters 1' above I.E.             | Rip-rap to flowline of ditch  |
| 1108  | 5 | No inlets                              | None  |
| 1109  | 5 | No inlets                              | None  |
| 1111  | 5 | BM 2410                                | None  |
| 1112  | 2 | Drainage from above                    | Construct cutoff wall in flowline above drop<br>Construct concrete or masonry wall to stabilize<br>Construct splash pad in flowline   |
| 1116  | 1 | Exposed sanitary sewer pipe over ditch | Construct concrete or masonry wall to stabilize<br>Backfill over exposed pipe   |
| 1127  | 5 | CL 18' Box Culvert                     | None  |
| 1130  | 5 | CL 18' Box Culvert                     | None  |
| 1134  | 3 | Run off from tank site                 | Rip-rap to flowline of ditch  |
| 1140  | 5 | (Skyline) No inlets                    | None  |
| 1141  | 4 | Bridge over Ditch                      | Rip-rap sides of ditch  |
| 1142  | 5 | Bridge over Ditch                      | None  |
| 1143  | 1 | 12" PVC down drain from Cuesta Apts.   | Hydraulic analysis required. Major erosion due to<br>overtopping of ex. DI at top of slope. No apparent source<br>of surface runoff to ex. DI indicates that erosion is due to<br>surcharging of upstream storm drain causing discharge from<br>ex. DI. |
| 1144  | 5 | Box across Drainage                    | None  |
| 1146  | 4 | 12" PVC down drain from Cuesta Apts.   | Source of erosion appears to have been eliminated by<br>Cuesta Apartments. Monitor to make sure erosion isn't<br>increasing.  |
| 1147  | 5 | (Manzanita) No inlets                  | None  |
| 1150  | 5 | Beg. Conc Ditch under McCarran         | None  |
| 1154  | 5 | (McCarran) end McCarran headwall       | None  |
| 1156B | 3 | 10" PVC over ditch / beg conc Ditch    | Stabilize side slope with rip-rap   |
| 1163  | 5 | Golf Cart X-ing                        | None  |
| 1167  | 5 | Cart X-ing                             | None  |
| 1170  | 5 | No inlets                              | None  |

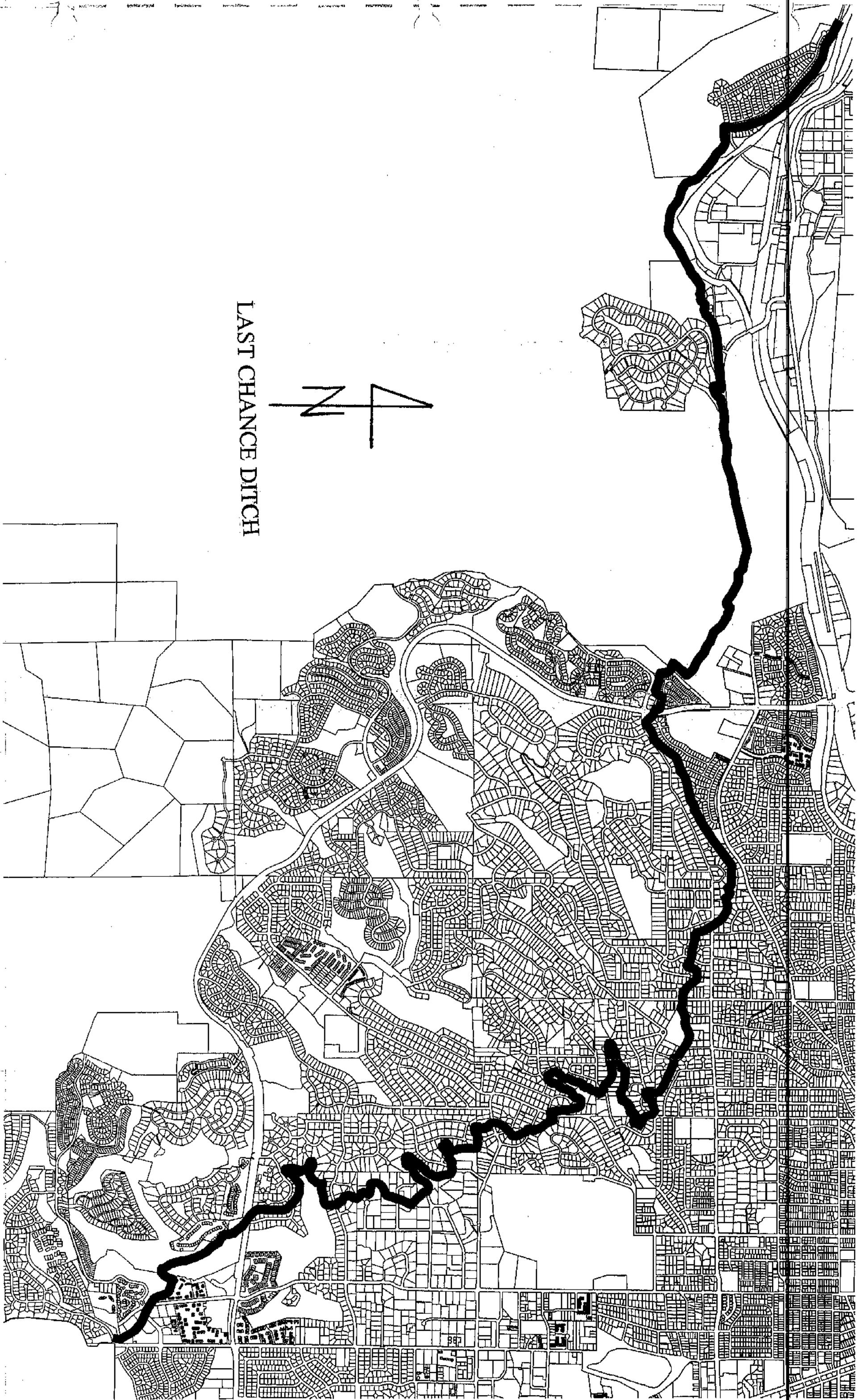
| LAST CHANCE DITCH - CAPITAL IMPROVEMENT PLAN |        |                                    |  |
|--|--------|------------------------------------|--|
| 5-POINT RATING SYSTEM                        |        |                                    |  |
| 1 = IMMEDIATE ACTION REQUIRED                |        |                                    |  |
| 5 = NO ACTION NECESSARY                      |        |                                    |  |
| PAGE 1                                       |        |                                    |  |
| POINT NO.                                    | RATING | COMMENTS                           | RECOMMENDED ACTION   |
| 2004   |        | Outlet drain under flume           | <b>FIELD INVESTIGATION REQUIRED</b>  |
| 2007   | 4      | 20' conc sect And Rock lined ditch | Construct 6" curb on either side of concrete section<br>to confine runoff to concrete slab |
| 2016   | 5      | (White Fir) Box culvert            | None   |
| 2018   | 5      | N. Side                            | None   |
| 2025   | 3      | Drainage inlet                     | Rip-rap to flowline of ditch   |
| 2034   | 5      | (Juniper) Box Culvert              | None   |
| 2035   | 5      | Inlet from west                    | None   |
| 2036   | 5      | Ditch Drainage Inlet               | None   |
| 2037   | 5      | Concrete Abutment                  | None   |
| 2044   | 4      | Filled in                          | Rip-rap to flowline of ditch   |
| 2047   | 4      | S. Side Road Culvert               | Rip-rap to flowline of ditch   |
| 2049   | 3      | Catch Basin                        | Field study required during dry season. Possibly rip-rap to<br>flowline of ditch           |
| 2050   | 3      | Catch Basln                        | Rip-rap to flowline of ditch   |
| 2051   | 5      | (Latigo Rd.) Bridge                | None   |
| 2054   | 5      | From E. Side Ditch of Latigo Rd.   | None   |
| 2062   | 4      | CMP S. Side                        | Rip-rap to flowline of ditch   |
| 2064B  | 2      | Yard Drainage with erosion         | Rip-rap to flowline of ditch   |
| 2065   | 2      | Yard Drain with erosion            | Rip-rap to flowline of ditch   |
| 2066   | 5      | Yard Drain                         | None   |
| 2068   | 4      | Yard Drain Ditch with erosion      | Rip-rap to flowline of ditch   |
| 2071   | 5      | CMP lined culvert with gate        | None   |
| 2072   | 5      | Caughlin Ranch Drainage            | None   |
| 2073   | 5      | Path crossing with Xtra Photo      | None   |
| 2074   | 4      | Path crossing                      | Clean out culverts   |
| 2075   | 4      | Path crossing                      | Clean out culverts   |
| 2076   | 5      | (McCarran) Bridge                  | None   |
| 2079   | 5      | End Barrel                         | None   |
| 2082   | 5      | RCB Caughlin Crossing              | None   |
| 2084   | 5      | RCB N. Side                        | None   |
| 2087   | 5      | 36" RCP                            | None   |
| 2088   | 5      | (McCarran)                         | None   |
| 2090   | 5      | N. Side                            | None   |
| 2092   | 5      | (Homewood) W. side                 | None   |
| 2093   | 5      | E. Side                            | None   |
| 2094   | 1      | Erosion & Drainage from Plumb      | Rip-rap from Plumb to flowline of ditch  |
| 2096   | 2      | Erosion & Drainage                 | Rip-rap to flowline of ditch   |
| 2097   | 2      | Drain S. Side Erosion              | Rip-rap to flowline of ditch   |
| 2100   | 3      | 18" CMP from private pond          | Construct headwall and rip-rap to flowline of ditch  |
| 2104   | 5      | (W. Plumb Lane) beg. Rockline      | None   |
| 2108   | 5      | (Aquila Ave.)                      | None   |
| 2109   | 5      | Private Drive                      | None   |
| 2113   | 5      | (Hunter Lake)                      | None   |
| 2114   | 3      | Road drain to ditch                | Replace concrete lined swale to ditch with rip-rap to flowline                             |
| 2115   | 5      | East Side                          | None   |
| 2118   | 5      | Private Drive                      | None   |
| 2122   | 4      | Drain to Ditch                     | Rip-rap to flowline of ditch   |
| 2128   |        | Unknown dug up pipe                | <b>FIELD INVESTIGATION REQUIRED</b>  |
| 2129   | 4      | 12" RCP                            | Repair concrete  |

|       |   |                                    |   |
|-------|---|------------------------------------|---|
| 2129b | 5 | (Webster/Seitnel Dr.)              | None  |
| 2130  | 3 | Many manholes across road          | Construct splash pad  |
| 2130b | 5 | Needs investigation                | None  |
| 2140  | 5 | SD Inlet with MH Cover             | None  |
| 2141  | 5 | (unknown) Start Conc Sect. N. Side | None  |
| 2148  | 3 | Yard Drain                         | Rip-rap to flowline of ditch  |
| 2150  | 1 | Drain from Reanon Ct. near SSMH    | Construct headwall and rip-rap to flowline of ditch<br>Construct small masonry retaining wall in front of SSMH<br>to allow backfill around SSMH |
| 2153  | 5 | Box Culvert under creek            | None  |
| 2166  | 5 | (Skyline Circle)                   | None  |
| 2167  | 5 | Catch Basin drop in at Bridge      | None  |
| 2170  | 5 | (Rancho Manor Dr.)                 | None  |
| 2173  | 5 | (Monterey Dr.) Catch Basin         | None  |
| .     | 5 | Drop ins on both sides of road     | None  |
| 2174  | 4 | (Moana)                            | Construct wingwalls or rip-rap  |
| 2183  | 5 | (Pioneer Dr.)                      | None  |
| 2187  | 5 | Trail Bridge additional photo      | None  |
| 2203  | 4 | (Manzanita) Wall S. Side           | Construct wingwalls or rip-rap  |
| 2213  | 2 | SD to Ditch                        | Construct headwall and rip-rap to flowline of ditch   |
| 2214  | 3 | (Rio Pinard Dr) SD both Sides      | Construct wingwalls or rip-rap  |
| 2217  | 5 | (McCarran) with Catch Basin drop   | None  |
| 2218  | 5 | Catch Basin to Ditch               | None  |
| 2220  | 5 | Golf Parking Pic Says 2219         | None  |
| 2221  | 5 | Under Driving Range                | None  |
| 2223  | 5 | Entrance to Lakeside               | None  |
| 2225  | 5 | Course Trail                       | None  |
| 2228  | 5 | Golf Course                        | None  |
| 2229  | 2 | Private SD to Ditch                | Construct headwall and rip-rap to flowline of ditch   |
| 2231  | 2 | Private SD to Ditch                | Construct headwall and rip-rap to flowline of ditch   |
| 2232  | 5 | GR Ranch entrance                  | None  |
| 2234  | 5 | (Evans Creek Rd)                   | None  |

| CAPITAL IMPROVEMENT PLAN - LAKE DITCH |        |                                      |  |
|---------------------------------------|--------|--------------------------------------|--|
| 5-POINT RATING SYSTEM                 |        |                                      |  |
| 1 = IMMEDIATE ACTION REQUIRED         |        |                                      |  |
| 5 = NO ACTION NECESSARY               |        |                                      |  |
| PAGE 1                                |        |                                      |  |
| POINT NO.                             | RATING | COMMENTS                             | RECOMMENDED ACTION   |
| 3004                                  | 5      | TRAIL BRIDGE                         | None   |
| 3005                                  | 3      | TRAIL PATH                           | Rip-rap to flowline  |
| 3006                                  | 5      | TRAIL BRIDGE                         | None   |
| 3007                                  | 5      | TRAIL BRIDGE                         | None   |
| 3009                                  | 5      | STREAM INLET TO DITCH                | Construct Headwall and rip-rap to flowline   |
| 3014                                  | 5      | (RAINSHADOW LANE) DRAIN W. SIDE RD.  | None   |
| 3014B                                 | 4      |                                      | Rip-rap to flowline  |
| 3017B                                 | 5      | PRIVATE DRIVE                        | None   |
| 3020                                  | 5      | YARD SWALE                           | None   |
| 3028                                  | 5      | PRIVATE                              | None   |
| 3029                                  | 5      | BEGIN CONC. SECTION & SD TO DITCH    | None   |
| 3030                                  | 4      | SD TO DITCH                          | Cut back pipe to reduce drop   |
| 3031                                  | 5      | SD TO DITCH                          | None   |
| 3032                                  | 5      | (EDGEWATER)                          | None   |
| 3034                                  | 4      | SD TO DITCH                          | Rip-rap to flowline  |
| 3035                                  | 5      | SD TO DITCH END CONC. BEG. ROCK      | None   |
| 3039                                  | 3      | SD TO DITCH (PIC SAYS 3037)          | Rip-rap to flowline  |
| 3040                                  | 5      | SD TO DITCH AND CROSS                | None   |
| 3042                                  | 5      | (MCCARRAN) START CONC. SECTION       | None   |
| 3044                                  | 3      | SD TO DITCH - NEEDS MAINTENANCE      | Rip-rap from cross drain to back of inlet to ditch.<br>Clean up inlet. Remove tree growing in inlet. |
| 3048                                  | 5      | SD TO DITCH                          |  |
| 3050                                  | 5      | (RIVER RUN)                          | None   |
| 3054                                  | 5      | (MAYBERRY)                           | None   |
| 3055                                  | 5      | SD CATCH IN KNIGHT                   | None   |
| 3060                                  | 5      | PRIVATE DRIVE (VERNON)               | None   |
| 3064                                  | 5      | PRIVATE / 2X15" SD AT FERRIS LANE    | None   |
| 3068                                  | 3      | YARD DRAIN                           | Construct concrete splash pad in flowline  |
| 3069                                  | 4      | (HUNTER LAKE)                        | Construct wingwalls or rip-rap   |
| 3071                                  | 5      | YARD DRAIN                           | None   |
| 3072                                  | 3      | (CLOUGH ROAD)                        | Construct wingwalls  |
| 3073                                  | 2      | SD                                   | Construct headwall and rip-rap to flowline   |
| 3073                                  | 2      | SD                                   | Construct headwall and rip-rap to flowline   |
| 3079                                  | 3      | SD TO DITCH                          | Rip-rap to flowline  |
| 3080                                  | 5      | (SHARON) 2X8" SD BOTH SIDES          | None   |
| 3085                                  | 3      | SD TO DITCH - BOTH SIDES OF ROAD     | Construct splash pad. If inlet is ever improved to a Type 4-R, a headwall may be needed.             |
| 3085B                                 |        | AT MANOR                             |  |
| 3086                                  | 5      | (MONROE) W/ 2 SD'S, BOTH SIDES ROAD  | None   |
| 3090                                  | 5      | (BROWN ST.) W/ 2SD INLETS            | None   |
| 3091                                  | 5      | (MT. ROSE) W/ 2SD INLETS, BOTH SIDES | None   |
| 3093                                  | 5      | OUTLET                               | None   |
| 3094                                  | 2      | SD TO DITCH                          | Rip-rap to flowline  |
| 3095                                  | 2      | (PLUMB) W/ 2 SD INLET 8"; BOTH SIDES | Construct headwall<br>Construct wingwalls or rip-rap   |
| 3098                                  | 2      | SD TO DITCH                          | Clean and rip-rap to flowline  |
| 3099                                  | 5      | (MAPLEWOOD)                          | None   |
| 3101                                  | 1      | SD TO DITCH FROM GOLONDONA           | Construct Headwall and rip-rap to flowline   |
| 3102                                  | 5      | PINERIDGE W/ 2 SD BOTH SIDES RD.     | None   |
| 3107                                  | 2      | SD TO DITCH                          | Construct headwall   |
| 3112                                  | 2      | SD TO DITCH                          | Construct headwall   |
| 3115                                  | 2      | BOD @ PRIVATE BRIDGE                 | Construct headwall and rip-rap to flowline   |

|      |   |                                   |   |
|------|---|-----------------------------------|---|
| 3116 | 3 | (SKYLINE)12"SD TO DITCH           | Construct wingwall with headwall for 12" SD |
| 3121 | 3 | GOLF DRAINS                       | Construct splash pad                        |
| 3131 | 4 | GOLF DRAIN                        | Construct splash pad                        |
| 3133 | 3 | SUBDIV. DRAIN BLOWN OUT OF GROUND | Rip-rap to flowline                         |
| 3134 | 2 | SD COVERED ?                      | Clean and rip-rap to flowline               |
| 3135 | 3 | SD TO DITCH                       | Rip-rap to flowline                         |
| 3136 | 5 | 12" SD                            | None  |
| 3137 | 1 | SD'S TO DITCH ON WASHOE G.C.      | Construct headwall and rip-rap to flowline  |
| 3139 | 4 | DRAIN EAST SIDE                   | Rip-rap to flowline                         |
| 3140 | 5 | (MOANA)                           | None  |
| 3144 | 5 | S. OF MOANA (UNKNOWN)             | None  |
| 3146 | 5 | (MEADOWVIEW)                      | None  |
| 3147 | 4 | WTF                               | Rip-rap to flowline                         |
| 3149 | 4 | POND DRAIN                        | Rip-rap to flowline                         |
| 3151 | 3 | SD TO DITCH                       | Construct Headwall and rip-rap to flowline  |
| 3155 | 2 | PRIVATE YARD DRAINAGE             | Rip-rap to flowline                         |
| 3156 | 4 | YARD DRAINAGE                     | Rip-rap to flowline                         |
| 3160 | 3 | YARD DRAINAGE                     | Construct splash pad                        |
| 3162 | 4 | N. SIDE LAKERIDGE                 | Construct wingwalls or rip-rap              |
| 3169 | 3 | SD TO DITCH                       | Clean out and rip-rap to flowline           |
| 3172 | 4 | LAKESIDE CATCH BASINS BOTH SIDES  | Construct wingwalls or rip-rap              |
| 3176 | 3 | SD TO DITCH                       | Construct Headwall and rip-rap to flowline  |
| 3177 | 5 | (MCCARRAN)                        | None  |
| 3179 | 5 | LAKERIDGE                         | None  |
| 3180 | 5 | LAKERIDGE                         | None  |
| 3181 | 5 | (LAKESIDE)                        | None  |
| 3183 | 5 | (LAKESIDE) SD INLETS BOTH SIDES   | None  |
| 3190 | 2 | SD TO DITCH                       | Rip-rap to flowline                         |

| CAPITAL IMPROVEMENT PLAN - COCHRAN DITCH |        |                                      |  |
|--|--------|--------------------------------------|--|
| 5-POINT RATING SYSTEM                    |        |                                      |  |
| 1 = IMMEDIATE ACTION REQUIRED            |        |                                      |  |
| 5 = NO ACTION NECESSARY                  |        |                                      |  |
| PAGE 1                                   |        |                                      |  |
| POINT NO.                                | RATING | COMMENTS                             | RECOMMENDED ACTION                                   |
| 4205                                     | 5      | Underground                          | None   |
| 4210                                     | 3      | (Baker Ln) Pipe Ditch open again     | Construct headwall                                   |
| 4211                                     | 5      | (Pecham)                             | None   |
| 4213                                     | 4      | SD to Ditch                          | Too overgrown to make assessment. May be priority 5. |
| 4214                                     | 4      | SD to Ditch                          | Add splash pad.                                      |
| 4215                                     | 4      | SD to Ditch                          | Too overgrown to make assessment. May be priority 5. |
| 4216                                     | 5      | SD to Ditch                          | None   |
| 4218                                     | 3      | SD to Ditch/underground S. Side      | Rip-rap to flowline                                  |
| 4220                                     | 1      | SD to Ditch                          | Construct headwall and rip-rap to flowline           |
| 4221                                     | 2      | SD to Ditch                          | Construct headwall                                   |
| 4222                                     | 2      | SD to Ditch                          | Construct headwall and rip-rap to flowline           |
| 4223                                     | 5      | Underground                          | None   |
| 4224                                     | 3      | Out of ground here                   | Construct headwall                                   |
| 4225                                     | 5      | (Virginia Ln)under grnd past Kietzke | None   |
| 4226                                     | 5      | Break Splits and underground again   | None   |
| 4227                                     | 5      | underground break 72" CMP inside     | None   |
| 4228                                     | 2      | (Deluchie)                           | Construct headwall                                   |
| 4229                                     | 4      | Sluice box over stream               | Rip-rap stream                                       |
| 4230                                     |        | With Grate and then drops in EL.     |  |



LAST CHANCE DITCH

PHOTOS



Last Chance 2001



Last Chance 2002



Last Chance 2002B



Last Chance 2004



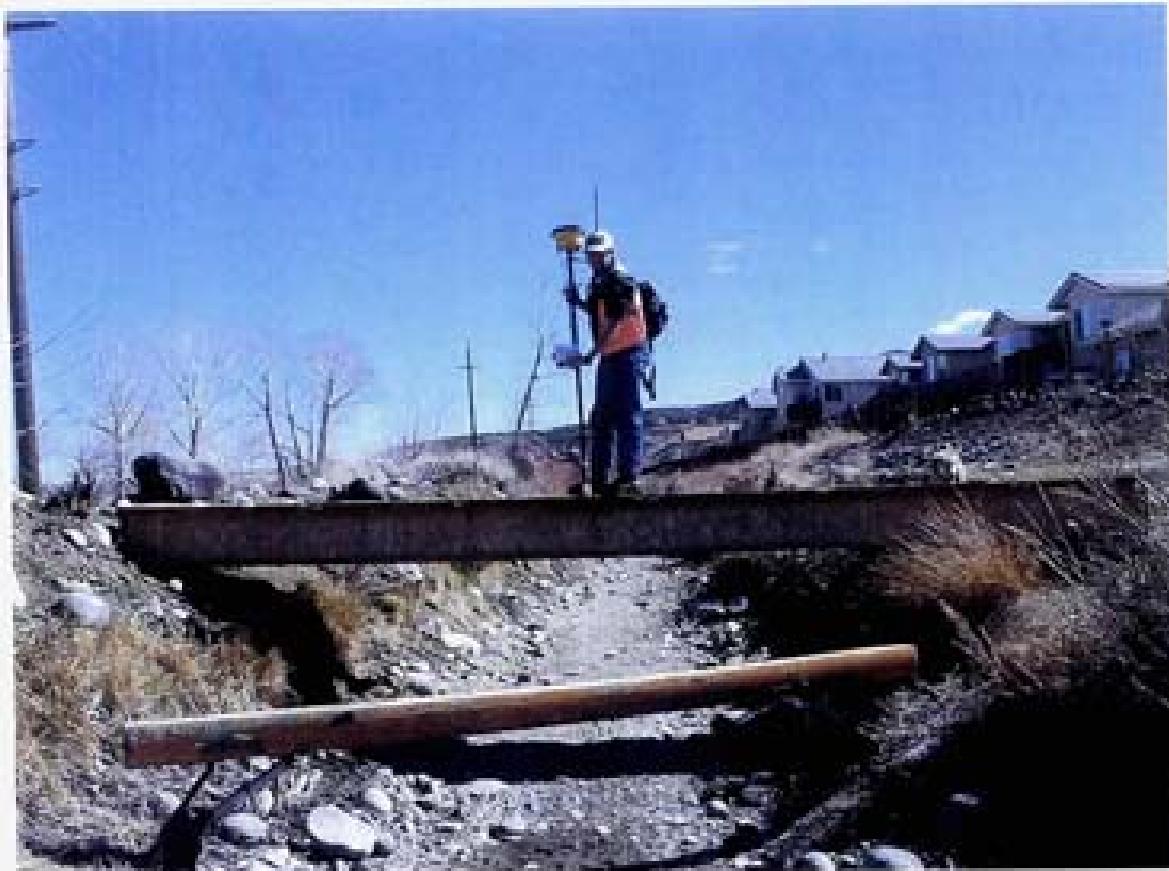
Last Chance 2005



Last Chance 2007



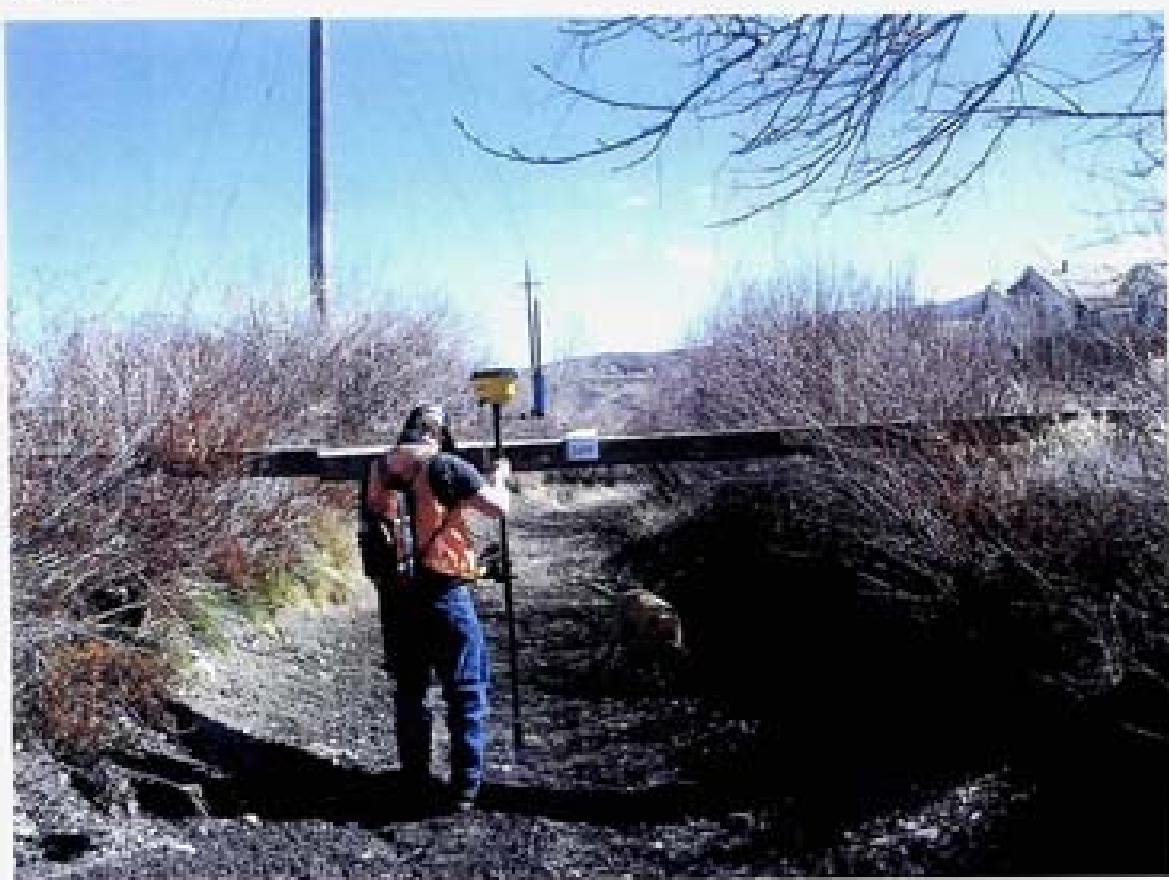
Last Chance 2007B



Last Chance 2008



Last Chance 2009



Last Chance 2010



Last Chance 2011



Last Chance 2012



Last Chance 2013



Last Chance 2014



Last Chance 2015



Last Chance 2016



Last Chance 2018



Last Chance 2020



Last Chance 2021



Last Chance 2022



Last Chance 2023



Last Chance 2025



Last Chance 2026



Last Chance 2027



Last Chance 2028



Last Chance 2028B



Last Chance 2029



Last Chance 2029B



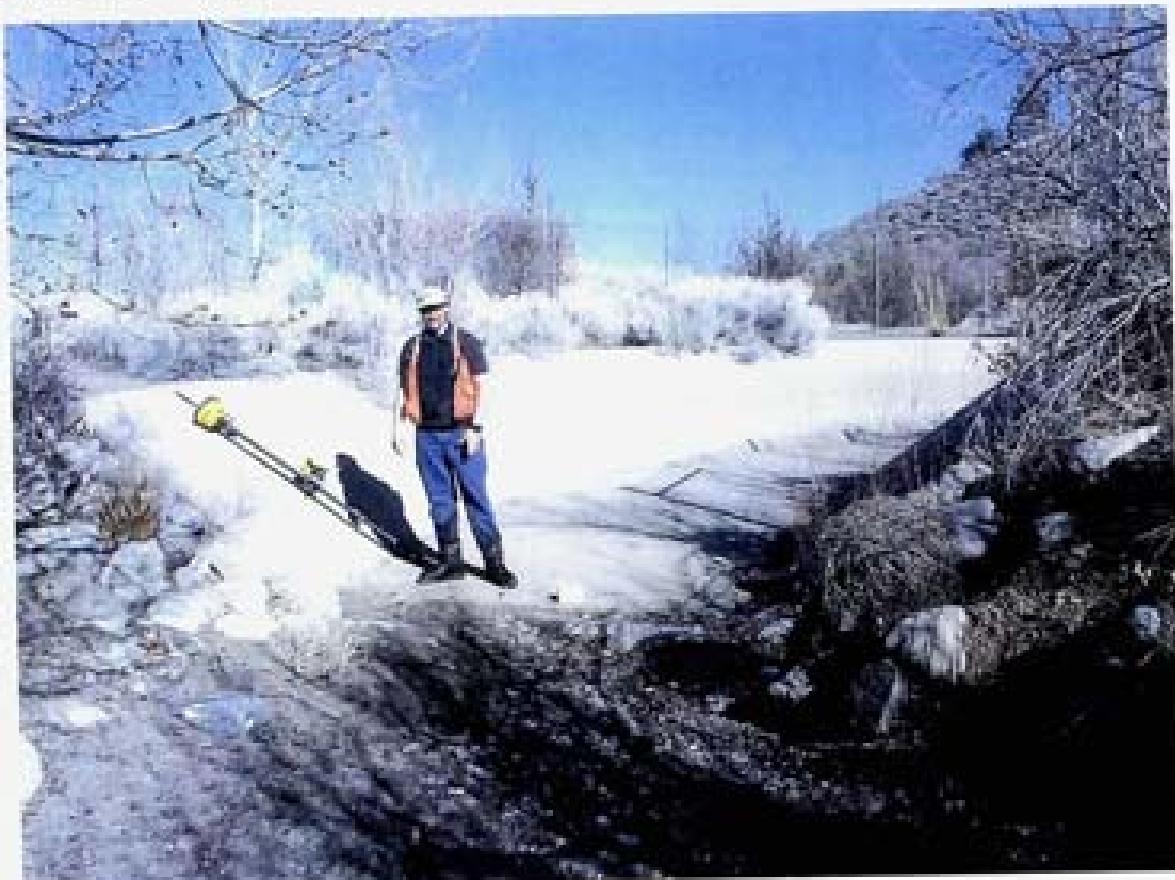
Last Chance 2029C



Last Chance 2031



Last Chance 2032



Last Chance 2033



Last Chance 2033B



Last Chance 2033C



Last Chance 2034



Last Chance 2035



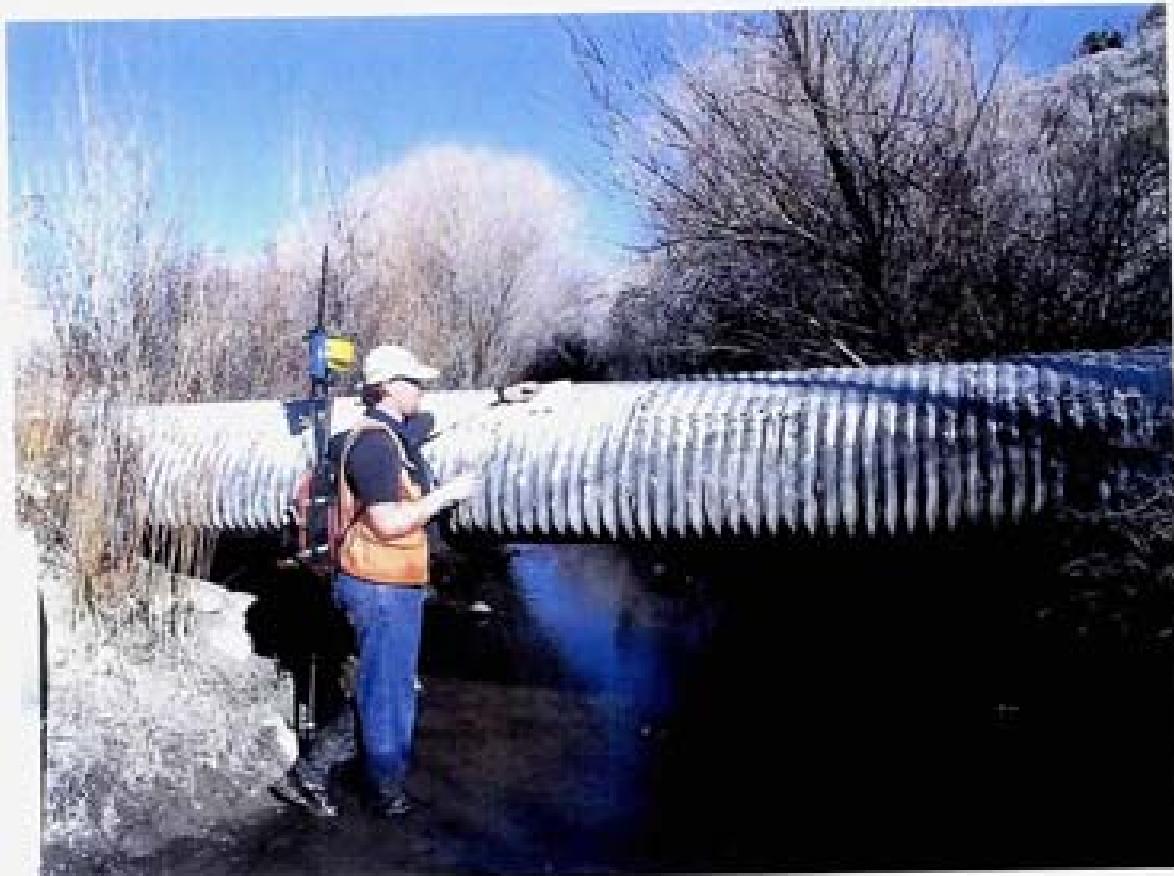
Last Chance 2036



Last Chance 2037



Last Chance 2038



Last Chance 2039



Last Chance 2040



Last Chance 2041



Last Chance 2042



Last Chance 2043



Last Chance 2044



Last Chance 2045



Last Chance 2047



Last Chance 2050



Last Chance 2050B



Last Chance 2051



Last Chance 2054



Last Chance 2056



Last Chance 2057



Last Chance 2058



Last Chance 2059



Last Chance 2060



Last Chance 2062



Last Chance 2063



Last Chance 2064



Last Chance 2064B



Last Chance 2065



Last Chance 2066



Last Chance 2067



Last Chance 2068



Last Chance 2069



Last Chance 2070



Last Chance 2071



Last Chance 2072



Last Chance 2073

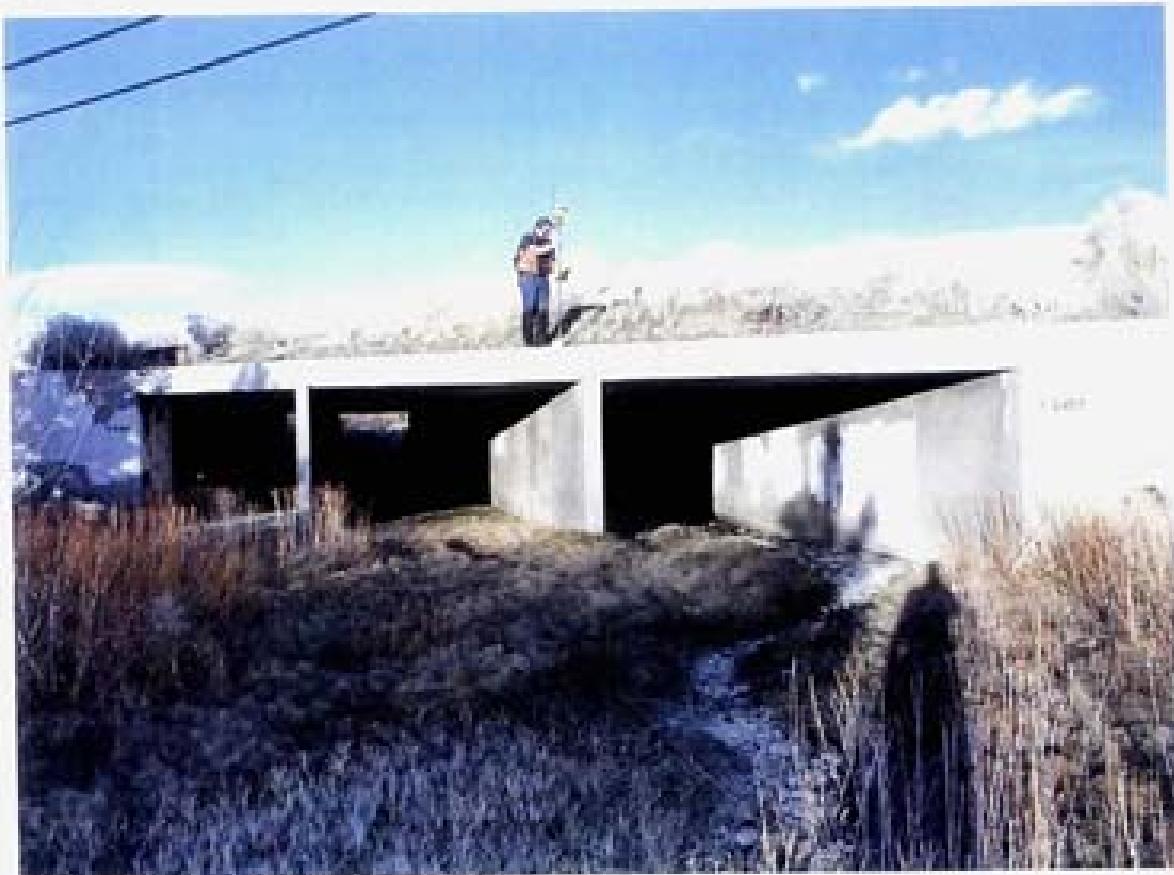


Last Chance 2074



Last Chance 2075

Photo credit: D. C. Johnson



Last Chance 2076

Photo credit: D. C. Johnson



Last Chance 2079



Last Chance 2080



Last Chance 2081



Last Chance 2082



Last Chance 2084

*Aug 2006*



Last Chance 2085



Last Chance 2086



Last Chance 2087



Last Chance 2087B



Last Chance 2088



Last Chance 2089



Last Chance 2090



Last Chance 2091



Last Chance 2092



Last Chance 2093



Last Chance 2094



Last Chance 2094B



Last Chance 2094C



Last Chance 2094D



Last Chance 2096



Last Chance 2097



Last Chance 2098



Last Chance 2099



Last Chance 2100



Last Chance 2101



Last Chance 2102



Last Chance 2103



Last Chance 2104



Last Chance 2106



Last Chance 2107



Last Chance 2108



Last Chance 2109



Last Chance 2110



Last Chance 2111



Last Chance 2112



Marko Cole

Last Chance 2113



Last Chance 2114



Last Chance 2115



Last Chance 2116



Last Chance 2117



Last Chance 2118



Last Chance 2119



Last Chance 2121



Last Chance 2122



Last Chance 2123



Last Chance 2124



Last Chance 2125



Last Chance 2126



Last Chance 2127



Last Chance 2128



Under construction

Last Chance 2129



Last Chance 2130



Last Chance 2131



Last Chance 2132



Last Chance 2133



Last Chance 2134



Last Chance 2135



Last Chance 2136



Last Chance 2137



Last Chance 2138



Last Chance 2139



Last Chance 2140



Last Chance 2141



Last Chance 2142



Last Chance 2143



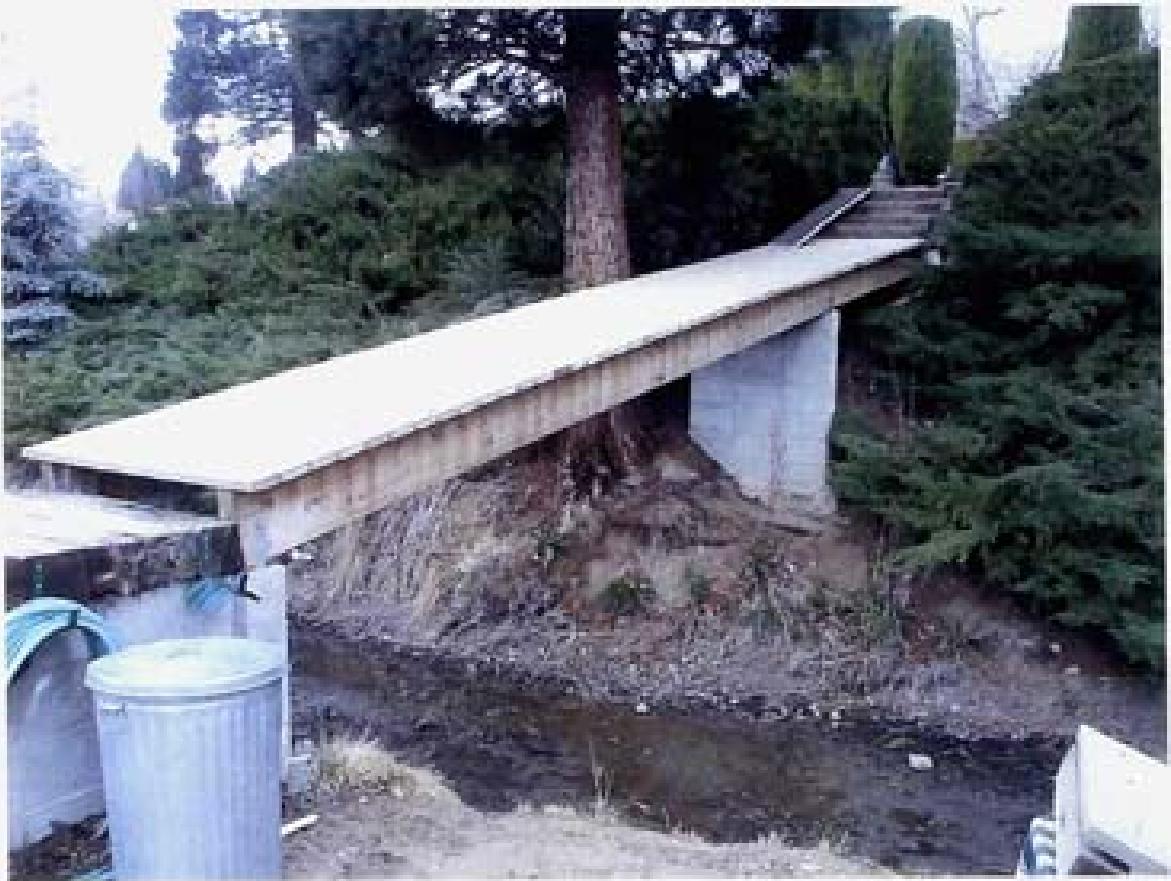
Last Chance 2144



Last Chance 2145



Last Chance 2146



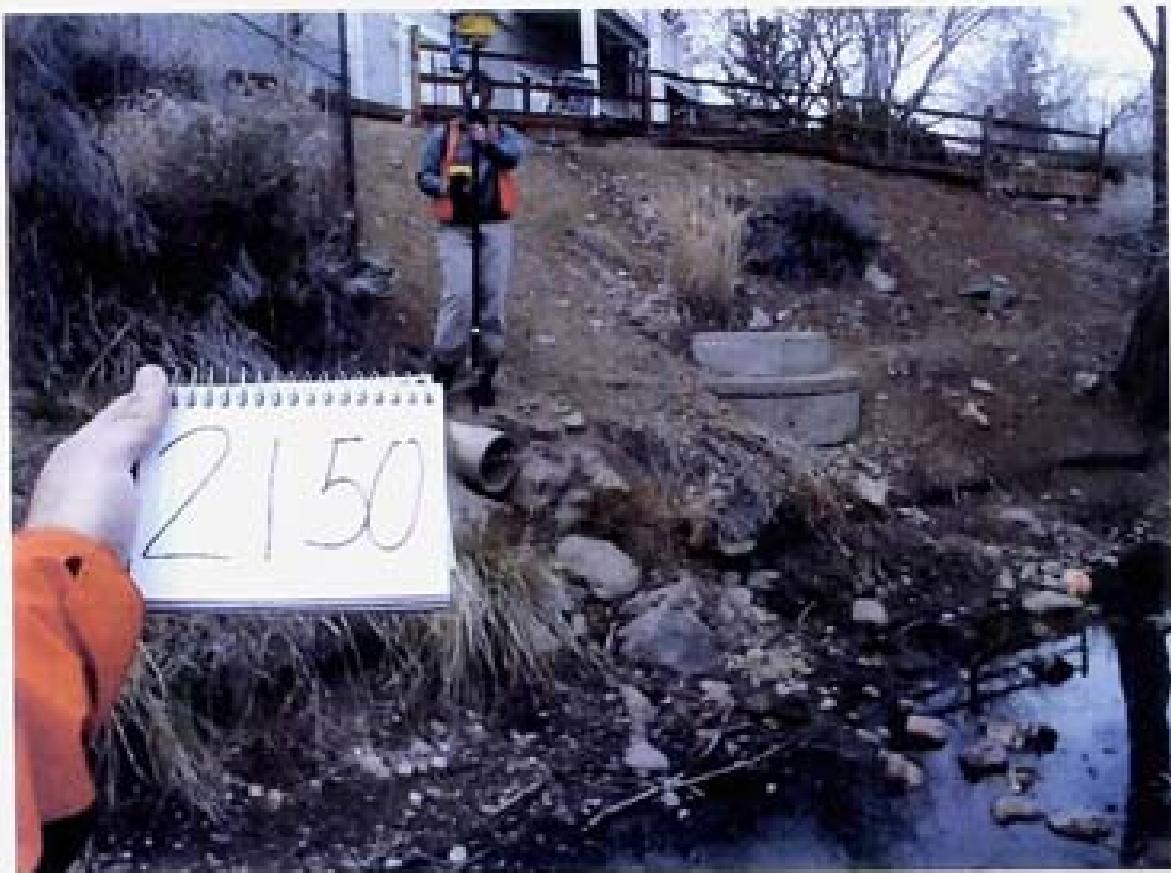
Last Chance 2147



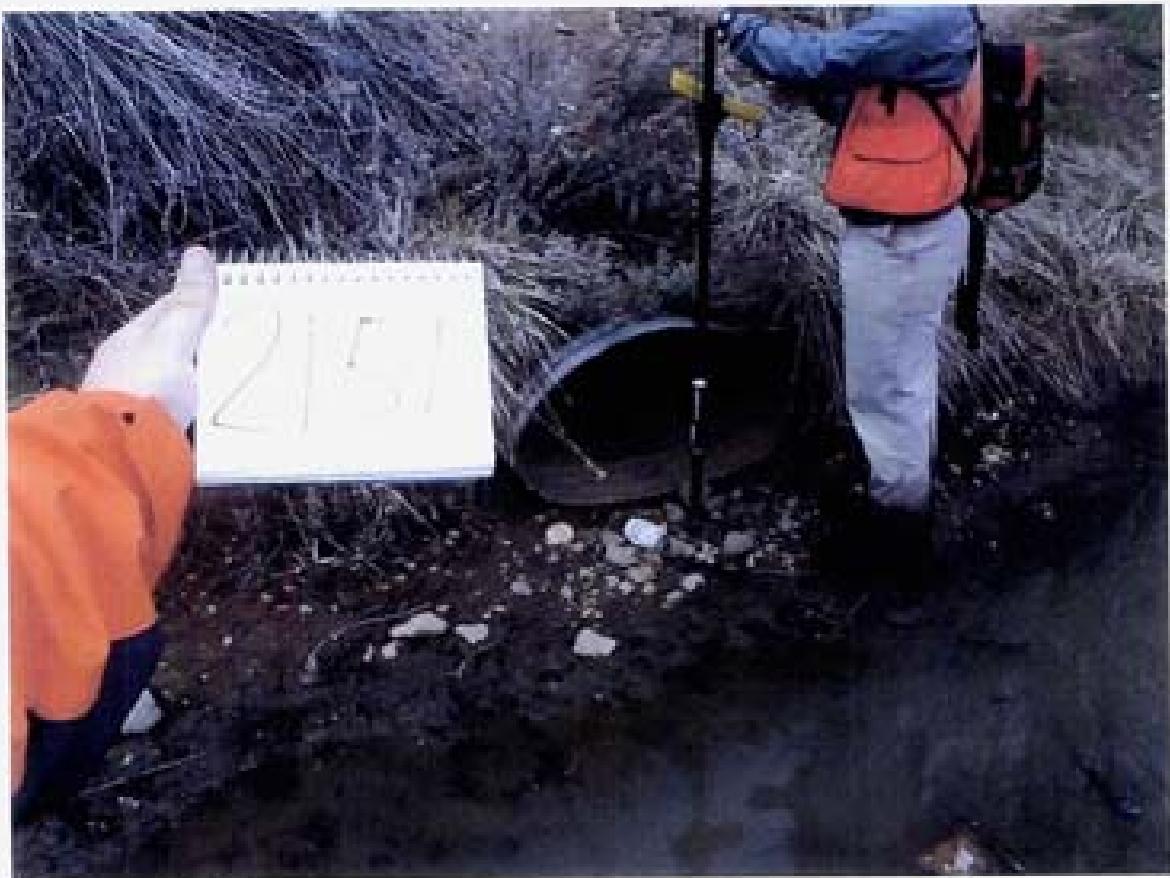
Last Chance 2148



Last Chance 2149



Last Chance 2150



Last Chance 2151



Last Chance 2152



Last Chance 2153



Last Chance 2154



Last Chance 2155



Last Chance 2156



Last Chance 2157



Last Chance 2158



Last Chance 2159



Last Chance 2160



Last Chance 2161



Last Chance 2162



Last Chance 2163



Last Chance 2164



Last Chance 2165



Last Chance 2166



Last Chance 2167



Last Chance 2168



Last Chance 2170



Last Chance 2171



Last Chance 2173



Last Chance 2173B



Last Chance 2174



Last Chance 2175



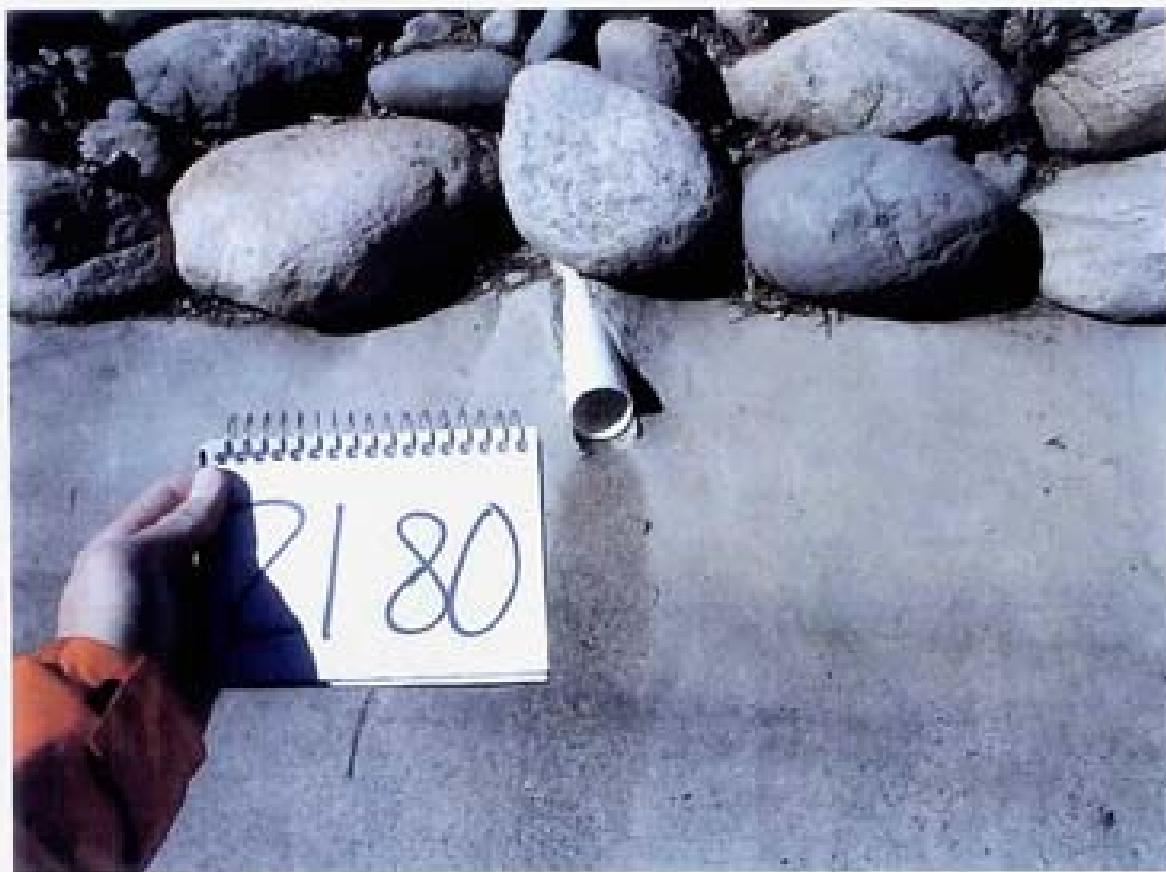
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Last Chance 2178



Last Chance 2179



Last Chance 2180



Last Chance 2181



Last Chance 2183

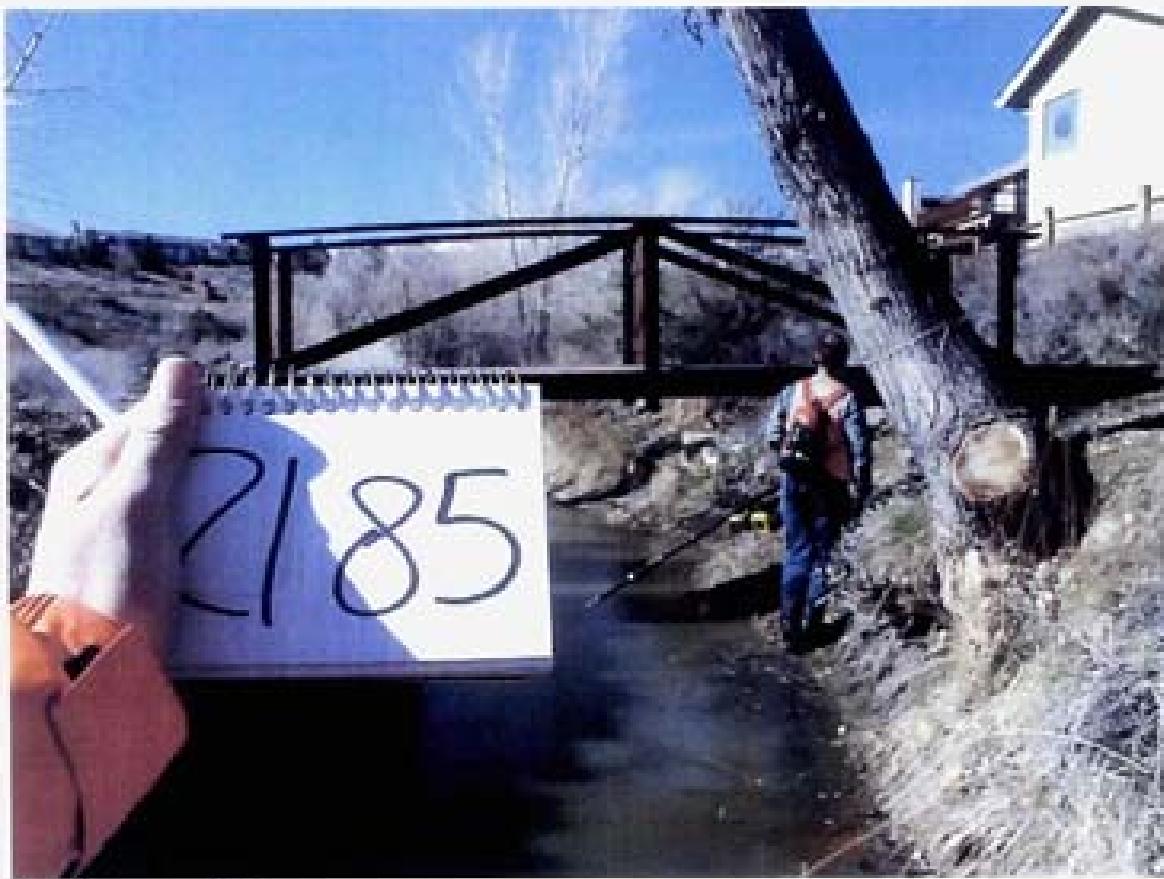


Last Chance 2184

Photo by  
Hawkins



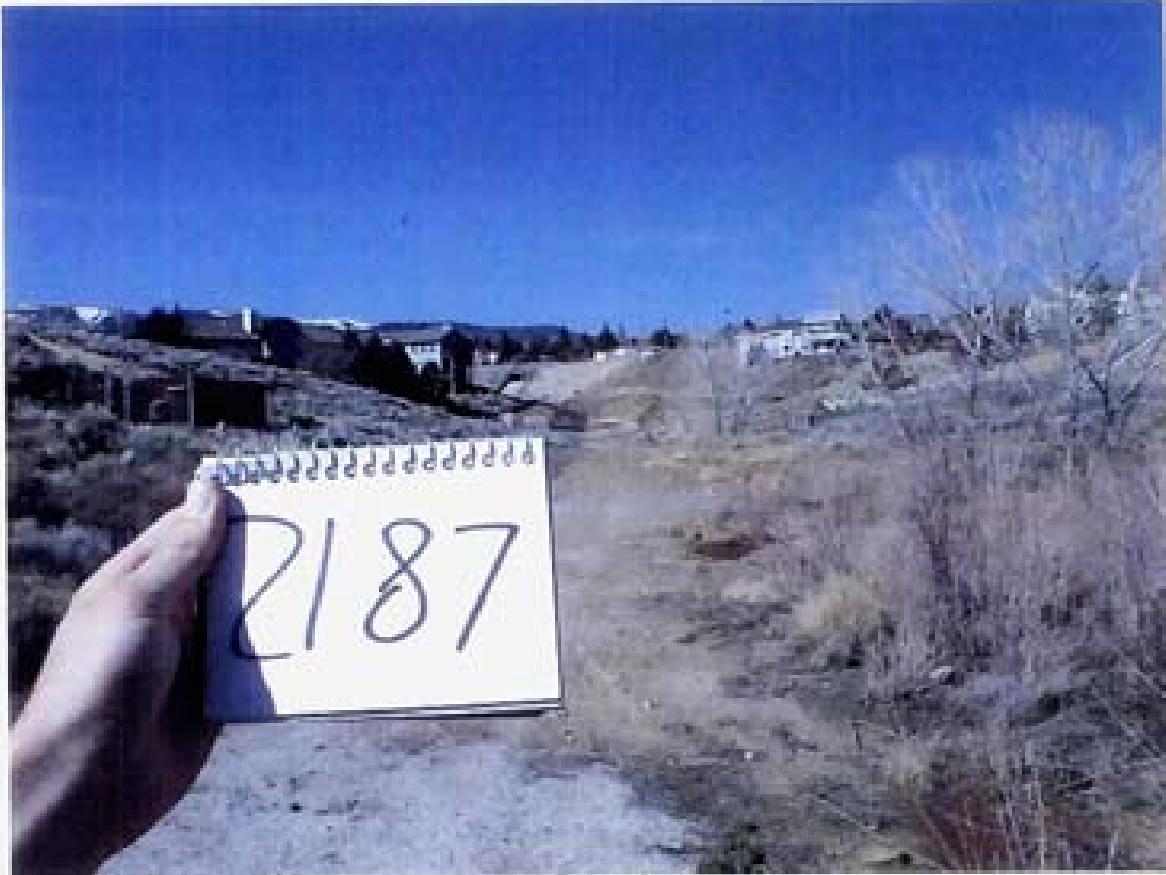
Last Chance 2184B



Last Chance 2185



Last Chance 2186



Last Chance 2187



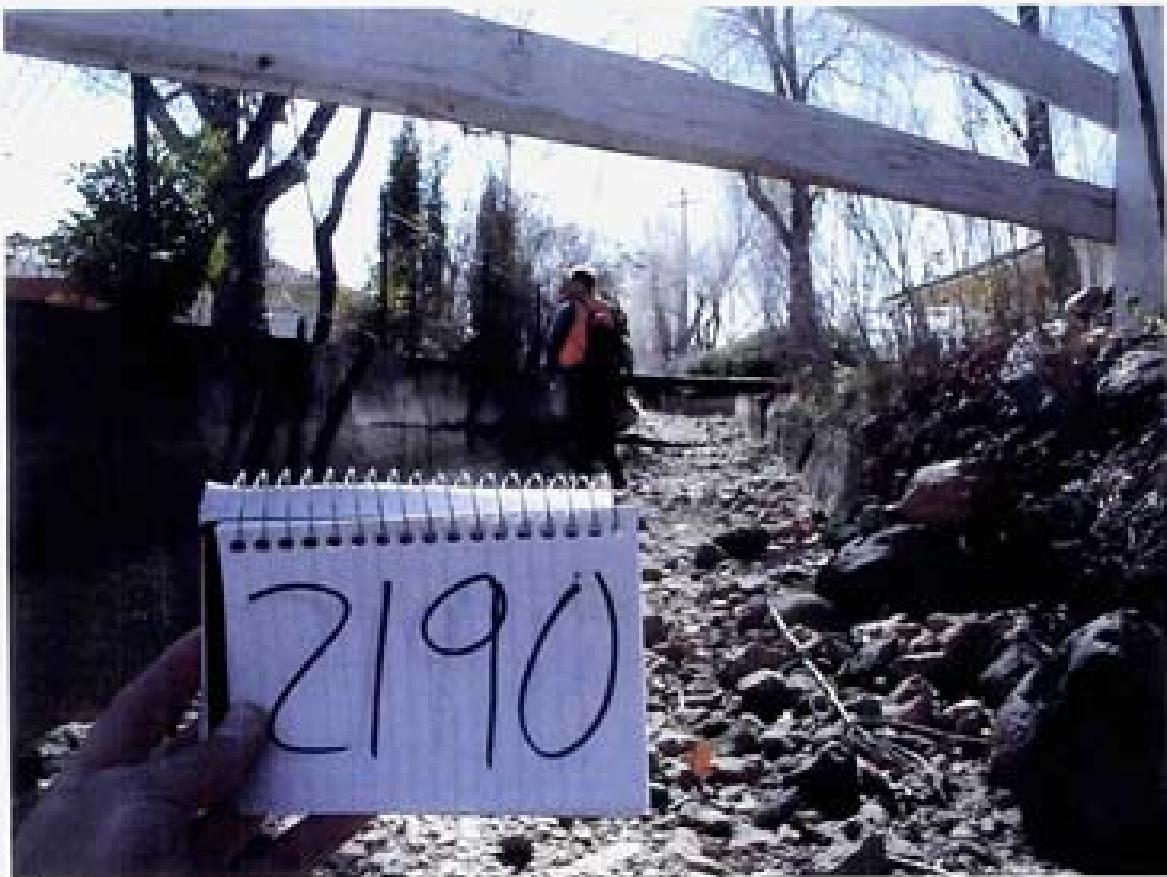
Last Chance 2187B



Last Chance 2187C



Last Chance 2188



Last Chance 2190



Last Chance 2191



Last Chance 2192



Last Chance 2192B



Last Chance 2193



Last Chance 2194



Last Chance 2195



Last Chance 2196



Last Chance 2197



Last Chance 2198



Last Chance 2199



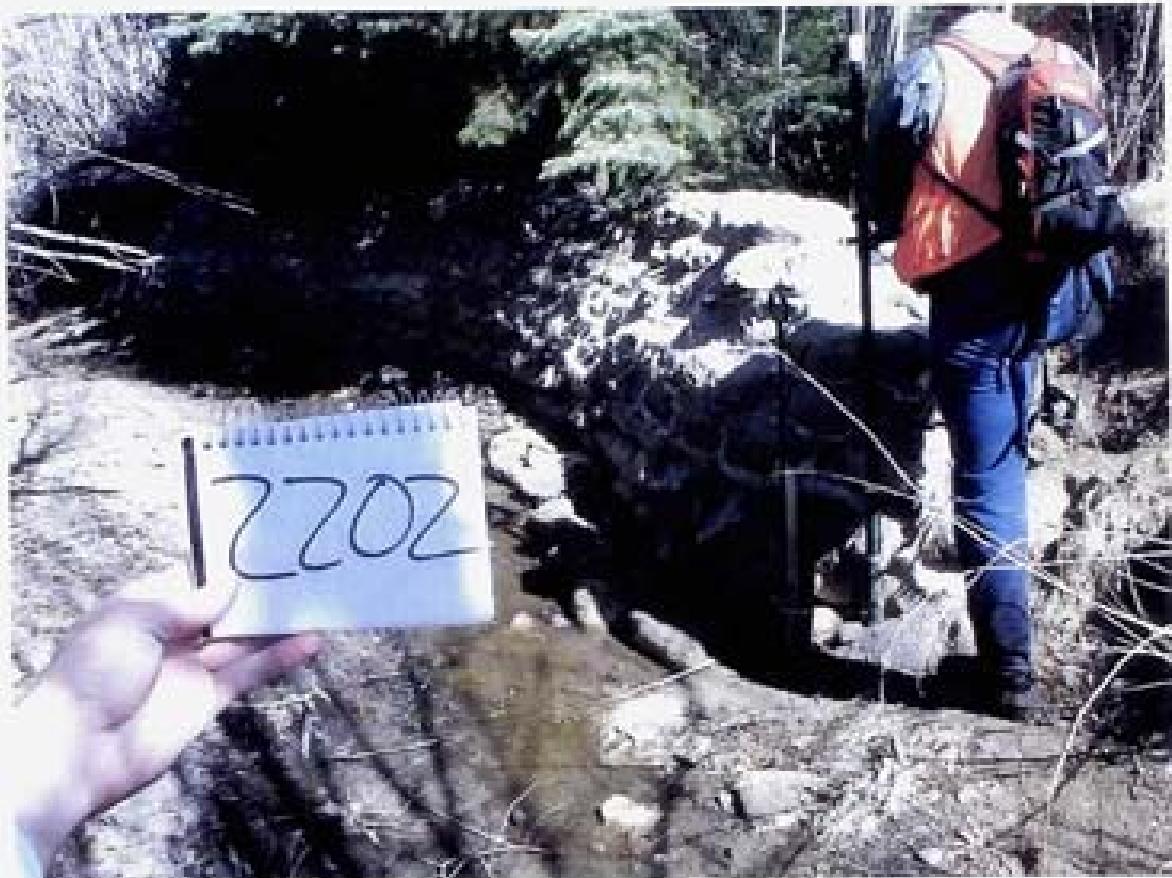
Last Chance 2200



Last Chance 2200B



Last Chance 2201



Last Chance 12202



Last Chance 12202



Last Chance 2202B



Last Chance 2203



Last Chance 2205



Last Chance 2206



Last Chance 2207



Last Chance 2208



Last Chance 2209



Last Chance 2210



Last Chance 2212



Last Chance 2212B



Last Chance 2213



Last Chance 2213B



Last Chance 2214



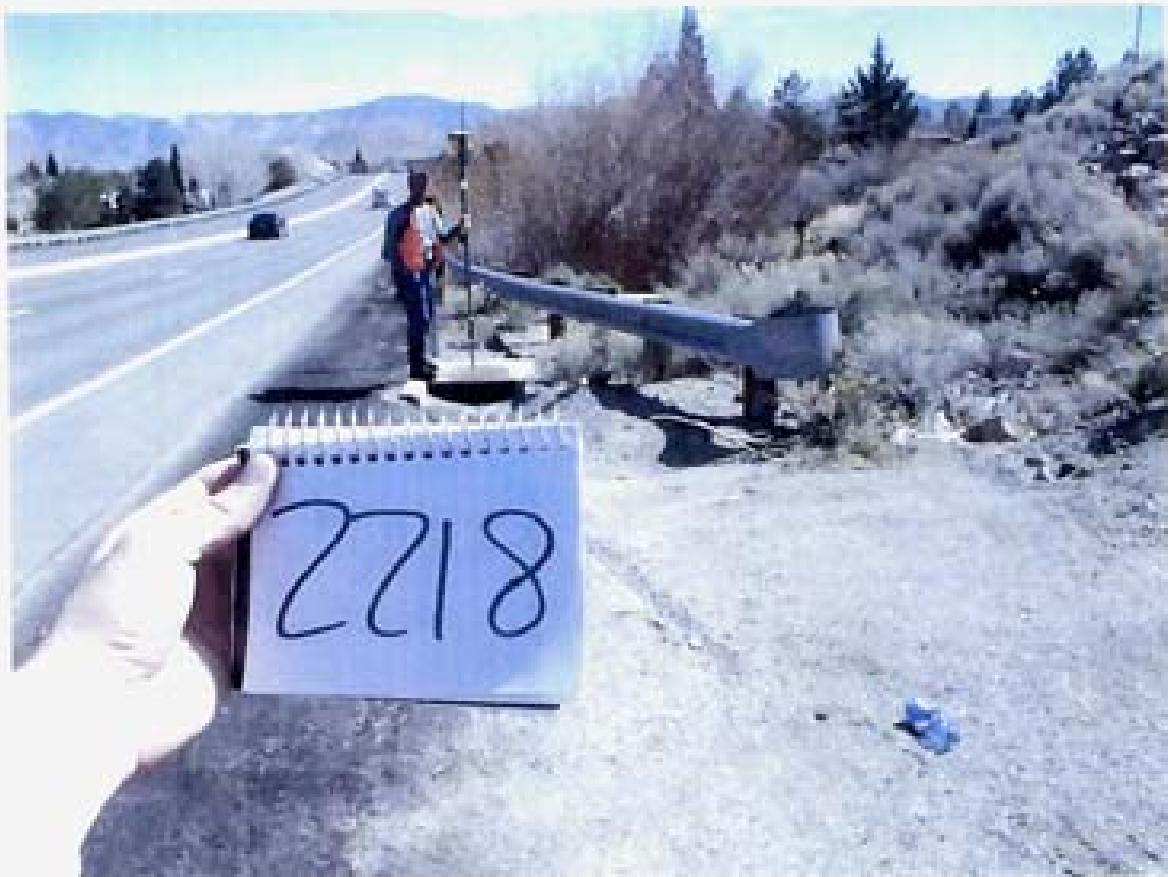
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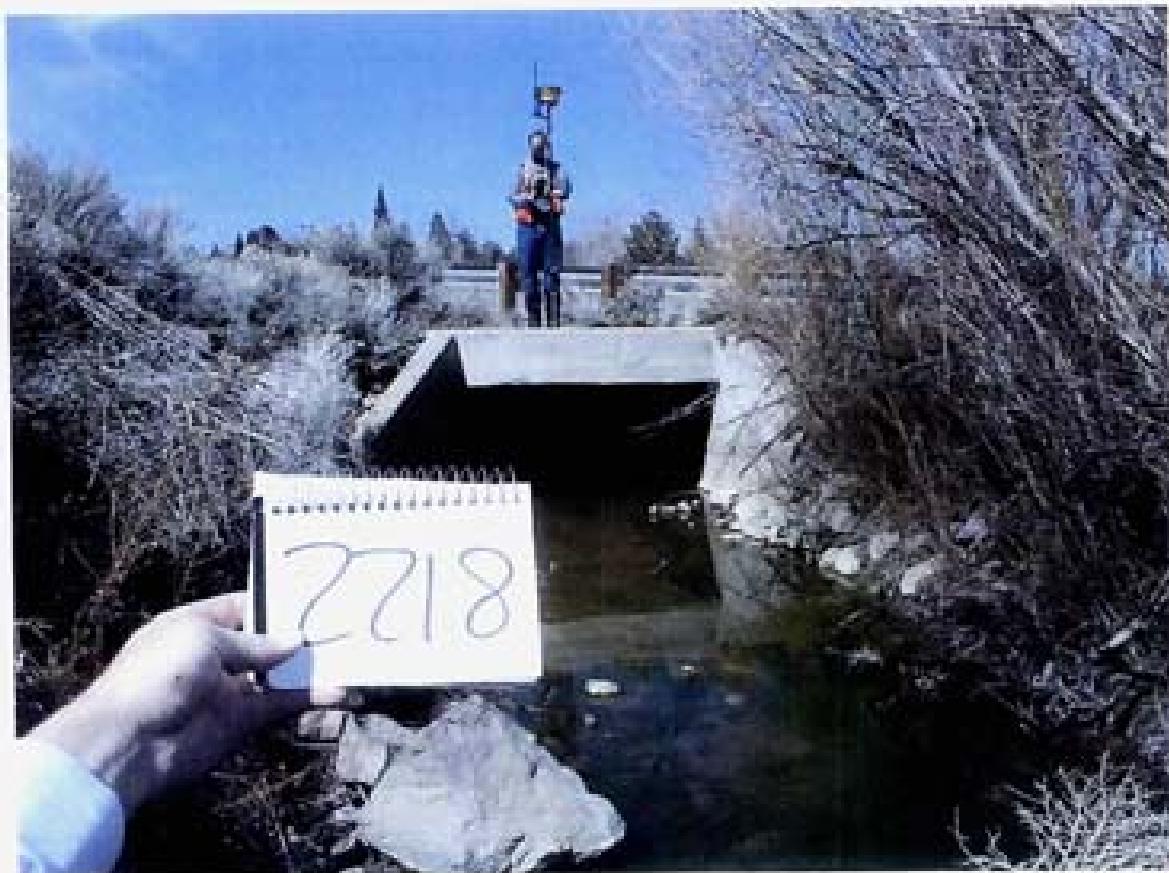
Last Chance 2217



Last Chance 2217B



Last Chance 2218



Last Chance 2218B



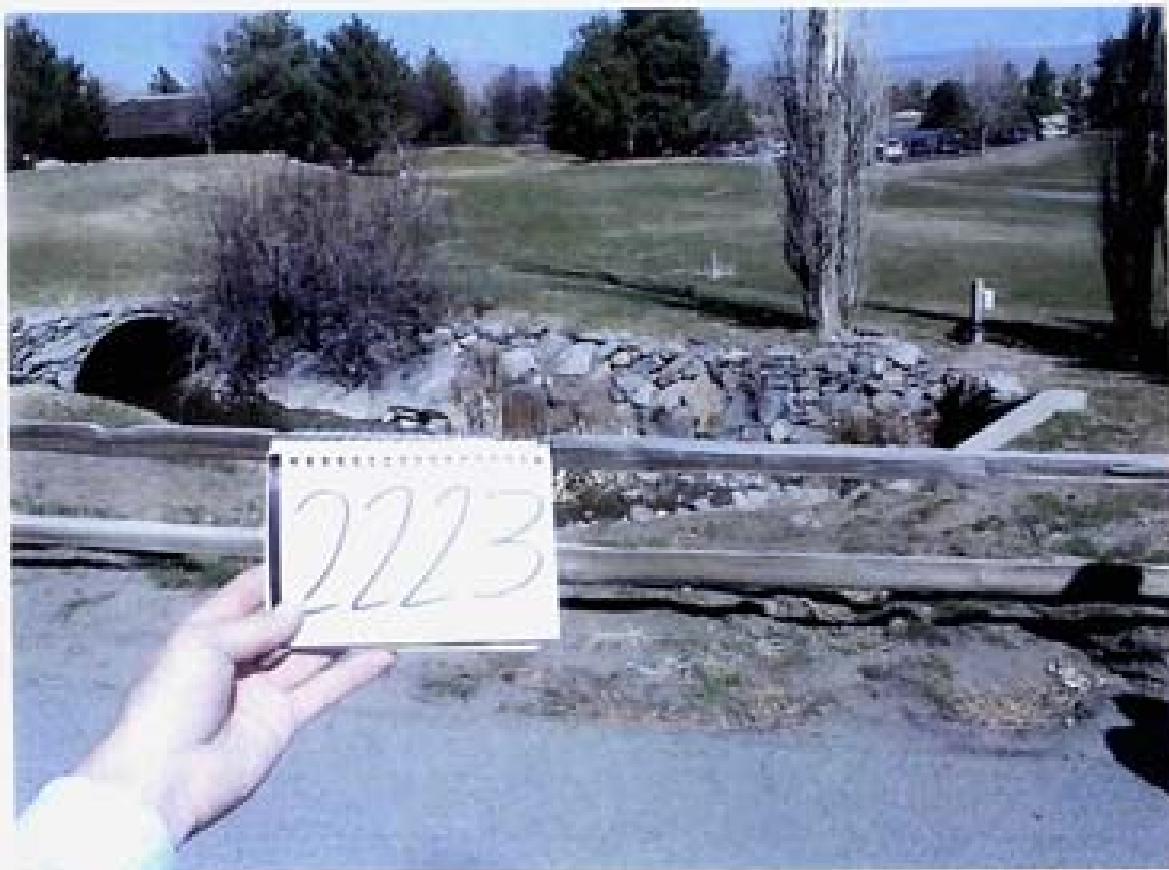
Last Chance 2220



Last Chance 2220B



Last Chance 2221



Last Chance 2223



Last Chance 2223



Last Chance 2224



Last Chance 2225



Last Chance 2226



Last Chance 2227



Last Chance 2228



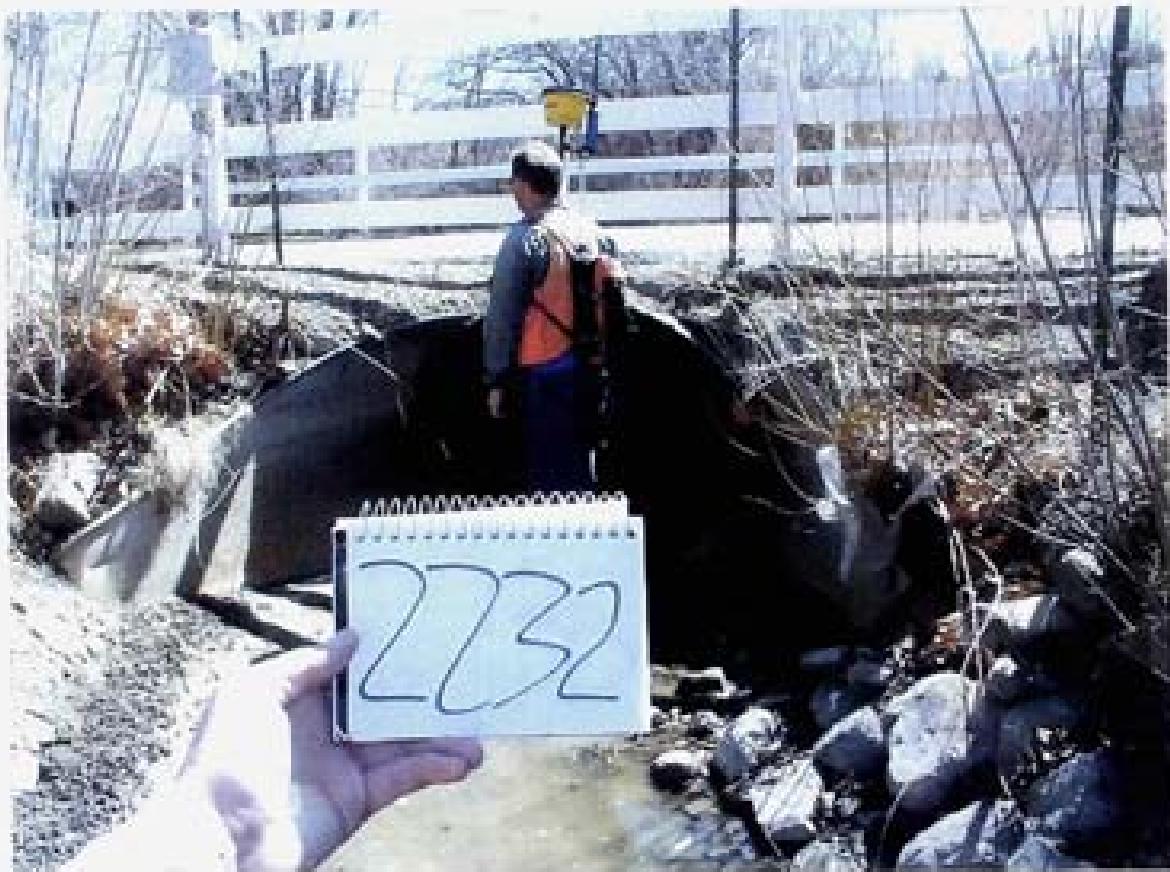
Last Chance 2229



Last Chance 2230



Last Chance 2231



Last Chance 2232



Last Chance 2233



Last Chance 2234

POINT DATA

## LAST CHANCE DITCH

| PAGE 1    |              |            |           |          |          |                   |               |             |        |                           |                                    |
|-----------|--------------|------------|-----------|----------|----------|-------------------|---------------|-------------|--------|---------------------------|------------------------------------|
| POINT NO. | NORTHING     | EASTING    | SHAPE     | SIZE     | MATERIAL | NUMBER OF BARRELS | HEAD-WALL FES | SLUICE GATE | OUTLET | ROAD CROSSING STREAM XING | COMMENTS                           |
| 2001      | 14862657.80  | 2250272.92 |           | 12'x4.5' | Conc     |                   |               |             | X      |                           | Cone Flume 40' in length           |
| 2002      | 14862644.48  | 2250299.40 |           | 4'x6'    | Wood     |                   |               |             | X      |                           | Sluice Gate with extra photos      |
| 2003      | 14862641.88  | 2250319.70 |           |          |          |                   |               |             |        |                           | END CONC FLUME                     |
| 2004      | 14862622.67  | 2250300.73 | RCP       | 36"      |          | 1                 |               |             | X      |                           | Outlet drain under flume           |
| 2005      | 14862631.25  | 2250357.99 |           | 12' Wide | Conc     |                   |               |             | X      |                           | Conc. Sect.                        |
| 2006      | 14862544.49  | 2250406.20 |           |          |          |                   |               |             |        |                           | END CONC SEC                       |
| 2007      | 14862338.97  | 2250988.70 |           | 20'      | Conc     |                   |               |             |        |                           | 20' conc sect And Rock lined ditch |
| 2008      | 14861896.17  | 2251589.32 |           | 3'       | Wood     |                   |               |             |        |                           | Private Bridge                     |
| 2009      | 14861715.52  | 2251796.76 |           | 3'       | Wood     |                   |               |             |        |                           | Private Bridge                     |
| 2010      | 14861512.25  | 2252005.91 |           | 2'       |          |                   |               |             |        |                           | Private Bridge                     |
| 2011      | 14861343.10  | 2252143.72 |           | 2'       |          |                   |               |             |        |                           | Private Bridge                     |
| 2012      | 14861244.44  | 2252223.32 |           |          | Conc     |                   |               |             |        |                           | Conc. Sect. 20'                    |
| 2013      | 14861178.30  | 2252267.98 |           | 2'       | Wood     |                   |               |             |        |                           | Private Bridge                     |
| 2014      | 14860537.08  | 2252485.30 | Cir.      | 4"       | metal    | 1                 |               |             |        |                           | Yard Drain                         |
| 2015      | 14860521.67  | 2252486.45 |           | 3'       | Wood     |                   |               |             |        |                           | Private Bridge                     |
| 2016      | 14860413.14  | 2252495.70 | Box       | 5x10"    | Conc     |                   |               |             | X      |                           | (White Fir) Box culvert            |
| 2017      | 14860369.47  | 2252541.75 |           |          |          |                   |               |             |        |                           | CL MON WHITE FIR                   |
| 2018      | 14860326.91  | 2252477.91 |           |          | Gunit    |                   |               |             |        |                           | N. Side                            |
| 2019      | 14860251.72  | 2252416.35 |           |          |          |                   |               |             |        |                           | END GUNNITE                        |
| 2020      | 14860227.26  | 2252467.09 |           |          |          |                   |               |             |        |                           | X                                  |
| 2021      | 14860137.15  | 2252991.24 |           |          |          |                   |               |             |        |                           | Creek Inlet                        |
| 2022      | 14859374.25  | 2253714.83 | Box       |          |          |                   |               |             |        |                           | Private Bridge                     |
| 2023      | 14859363.90  | 2253737.91 |           | 4'x4'    |          |                   |               |             |        |                           | Conic Flume                        |
| 2024      | 14859341.30  | 2253764.85 |           |          |          |                   |               |             |        |                           | drainage under flume               |
| 2025      | 14859301.17  | 2253821.49 |           |          |          |                   |               |             |        |                           | END CONC                           |
| 2026      | 14859701.49  | 2255990.13 |           |          | PVC      | 1                 |               |             |        |                           | Drainage inlet                     |
| 2027      | 14859681.61  | 2256135.12 |           |          | Conc     |                   |               |             |        |                           | Irrigation Valve                   |
| 2028      | 14859683.70  | 2256158.94 |           | 15'x4"   | Wood     |                   |               |             | X      |                           | Beg. Flume                         |
| 2029      | 14859679.48  | 2256167.76 |           | 4x10"    | Wood     |                   |               |             | X      |                           | Wood flume over creek              |
| 2030      | 14859678.26  | 2256188.28 |           |          |          |                   |               |             |        |                           | Sluice gate in flume               |
| 2031      | 14859785.20  | 2256384.75 |           | 8"       | Metal    |                   |               |             |        |                           | END CONC                           |
| 2032      | 14859779.67  | 2256389.25 |           | 12' Wood |          |                   |               |             |        |                           | GV                                 |
| 2033      | 14860140.47  | 2258215.91 |           |          | Conc     |                   |               |             |        |                           | Private Bridge                     |
| 2034      | 14860128.67  | 2258485.69 | Grate Box | 5x10'    | Conc     | 1                 |               |             |        |                           | Conc Sect.                         |
| 2035      | 148599993.18 | 2258192.91 |           |          | Conc     |                   |               |             |        |                           | (Juniper) Box Culvert              |
| 2036      | 14860126.65  | 2258503.23 |           |          |          |                   |               |             |        |                           | Inlet from west                    |
| 2037      | 14860135.74  | 2258512.42 |           |          | Conc     |                   |               |             |        |                           | Ditch Drainage Inlet               |
|           |              |            |           |          |          |                   |               |             |        |                           | Unknown Outlet Sand Bagged         |

| POINT NO. | PHOTO NO.    | SHAPE  | SIZE       | MATERIAL  | NUMBER OF BARRELS | HEAD-WALL | FES | SLUICE GATE | INLET | OUTLET | ROAD CROSSING | STREAM XING | COMMENTS                      |
|-----------|--------------|--------|------------|-----------|-------------------|-----------|-----|-------------|-------|--------|---------------|-------------|-------------------------------|
| 2038      | 14860203.30  | Squash | 8"         | CMP       | 1                 |           |     | X           |       |        |               |             | GV                            |
| 2039      | 14860202.91  | Squash | 36"        | CMP       |                   |           |     | X           |       |        |               |             | CMP                           |
| 2040      | 14860207.67  | Squash | 36"        | CMP       |                   |           |     | X           |       |        |               |             | Culvert w/ Sluice Gate        |
| 2041      | 14860556.13  | Squash | 36"        | Gunitte   |                   |           |     | X           |       |        |               |             | Beg. Gunite                   |
| 2042      | 14860536.70  | Squash | 8"         | Metal     |                   |           |     | X           |       |        |               |             | GV                            |
| 2043      | 14860508.59  | Squash | 8"         | Metal     |                   |           |     | X           |       |        |               |             | GV                            |
| 2044      | 14860496.36  | Squash | 36"x18"    | CMP       |                   |           |     | X           |       |        |               |             | Filled in                     |
| 2045      | 14860484.43  | Squash | 36"x239.67 | Sand Bags |                   |           |     |             |       |        |               |             | Beg. Sand Bags                |
| 2046      | 14860474.15  | Squash | 2262377.03 |           |                   |           |     |             |       |        |               |             | END S BAG S SIDE              |
| 2047      | 14860447.54  | Squash | 36"x18"    | CMP       |                   |           |     | X           |       |        |               |             | S. Side Road Culvert          |
| 2048      | 14860462.02  | Squash | 2262297.58 |           |                   |           |     |             |       |        |               |             | CL RD                         |
| 2049      | 14860415.29  | Squash | 2262447.78 |           |                   |           |     |             |       |        |               |             | Catch Basin                   |
| 2050      | 14860492.63  | Squash | 2262465.73 |           |                   |           |     |             |       |        |               |             | Catch Basin                   |
| 2051      | 14860424.75  | Squash | 2262641.77 |           |                   |           |     |             |       |        |               |             | (Latigo Rd.) Bridge           |
| 2052      | 14860416.54  | Squash | 2262655.55 |           |                   |           |     |             |       |        |               |             | CL LATIGO                     |
| 2053      | 14860407.71  | Squash | 2262669.52 |           |                   |           |     |             |       |        |               |             | BOX E LATIGO                  |
| 2054      | 14860367.79  | Cir.   | 12"        | CMP       |                   |           |     | X           |       |        |               |             | 12" CMP                       |
| 2055      | 14860393.83  | Cir.   | 12"        | CMP       |                   |           |     | X           |       |        |               |             | 12" CMP                       |
| 2056      | 14860337.69  | Squash | 6"         | Conc.     |                   |           |     | X           |       |        |               |             | GV                            |
| 2057      | 14860282.45  | Squash | 3'         |           |                   |           |     |             |       |        |               |             | Private Bridge                |
| 2058      | 14860180.69  | Squash | 6"         |           |                   |           |     |             |       |        |               |             | GV                            |
| 2059      | 148599997.43 | Cir.   | 2"         | PVC       |                   |           |     | X           |       |        |               |             | Yard Valve                    |
| 2060      | 14869960.19  | Squash | 2"         | PVC       |                   |           |     | X           |       |        |               |             | Yard Pipe                     |
| 2061      | 14869868.32  | Squash | 2263142.38 |           |                   |           |     |             |       |        |               |             | 18" CMP W SIDE RD             |
| 2062      | 14859913.44  | Cir.   | 18"        | CMP       |                   |           |     | X           |       |        |               |             | CMP S. Side                   |
| 2063      | 14859920.46  | Squash | 2263737.61 |           |                   |           |     |             |       |        |               |             | Roadway Bridge                |
| 2064      | 14859913.67  | Squash | 2263771.23 |           |                   |           |     |             |       |        |               |             | GV with Drain S. Side         |
| 2064B     | 14859913.67  | Squash | 2263771.23 |           |                   |           |     |             |       |        |               |             | Yard Drainage with erosion    |
| 2065      | 14859844.93  | Squash | 2263850.07 |           |                   |           |     |             |       |        |               |             | Yard Drain with erosion       |
| 2066      | 14859775.05  | Squash | 2263947.40 |           |                   |           |     |             |       |        |               |             | Yard Drain                    |
| 2067      | 14859759.29  | Squash | 2264007.71 |           |                   |           |     |             |       |        |               |             | Yard Drain PVC                |
| 2068      | 14859596.93  | Squash | 2264232.85 |           |                   |           |     |             |       |        |               |             | Yard Drain Ditch with erosion |
| 2069      | 14859563.83  | Squash | 2264313.17 |           |                   |           |     |             |       |        |               |             | GV                            |
| 2070      | 14859393.13  | Squash | 2264562.51 |           |                   |           |     |             |       |        |               |             | CMP lined culvert with gate   |
| 2071      | 14859007.86  | Squash | 2264471.96 |           |                   |           |     |             |       |        |               |             | Caughlin Ranch Drainage       |
| 2072      | 14859022.62  | Squash | 2264476.20 |           |                   |           |     |             |       |        |               |             | Xtra Photo                    |
| 2073      | 14858993.86  | Squash | 2264466.41 |           |                   |           |     |             |       |        |               |             | Path crossing with Xtra Photo |

| POINT NO. | PHOTO NO.   | SHAPE      | SIZE   | MATERIAL  | NUMBER OF BARRELS | HEAD WALL | FES GATE | SLUICE GATE | INLET | OUTLET | ROAD CROSSING | STREAM XING | COMMENTS                            |
|-----------|-------------|------------|--------|-----------|-------------------|-----------|----------|-------------|-------|--------|---------------|-------------|-------------------------------------|
| 2074      | 14859097.69 | Cir.       | 24"    | CMP       | 3                 |           |          |             |       |        | X             |             | Path crossing                       |
| 2075      | 14859727.47 | Cir.       | 24"    | CMP       | 3                 |           |          |             |       |        | X             |             | Path crossing                       |
| 2076      | 14859805.72 | 2265229.09 |        | Conc      |                   |           |          |             |       |        | X             |             | (McCarran) Bridge <i>Akum Creek</i> |
| 2077      | 14859006.58 | 2264473.40 |        |           |                   |           |          |             |       |        |               |             | ReShoot to set GPS DWG              |
| 2079      | 14858945.86 | 2264512.00 | Squash | 72"       | CMP               | 1         | X        |             |       |        |               |             | End Barrel                          |
| 2080      | 14858855.79 | 2264532.53 |        | 100' long |                   |           |          |             |       |        |               |             | Beg. Gunite                         |
| 2081      | 14858697.68 | 2264888.54 |        | 100' long |                   |           |          |             |       |        |               |             | Beg. Gunite                         |
| 2082      | 14858747.41 | Box        | 10x5'  | RCB       |                   |           |          |             | X     |        |               |             | RCB Caughlin Crossing               |
| 2083      | 14858825.03 | 2265049.08 |        |           |                   |           |          |             |       |        |               |             | CL MON CAUGHLIN XING                |
| 2084      | 14858828.58 | 2265085.37 | Box    | 10x5'     | RCB               |           |          |             |       |        |               |             | RCB N. Side                         |
| 2085      | 14858806.26 | 2265203.39 | Cir.   | 4"        | PVC               |           |          |             |       |        | X             |             | Gunite to McCarran                  |
| 2086      | 14858805.70 | 2265250.65 | Cir.   | 4"        | PVC               |           |          |             |       |        | X             |             | Drain inlet                         |
| 2087      | 14858693.33 | 2265337.64 | Cir.   | 36"       | RCP               | 1         |          |             |       |        | X             |             | SD inlet                            |
| 2088      | 14858701.89 | 2265352.74 | Box    | 10x5'     | RCB               |           |          |             |       |        | X             |             | (McCarran)                          |
| 2089      | 14858706.06 | 2265348.80 | Cir.   | 8"        | Metal             |           |          |             |       |        | X             |             | GV                                  |
| 2090      | 14858638.08 | 2265364.96 | Box    | 10x5'     | RCB               |           |          |             |       |        | X             |             | N. Side                             |
| 2091      | 14858639.19 | 2265369.06 |        | 12"       | Metal             |           |          |             |       |        | X             |             | GV                                  |
| 2092      | 14858553.93 | 2265747.04 | Box    | 10x5'     | RCB               |           |          |             |       |        | X             |             | (Homewood) W. side                  |
| 2093      | 14858613.29 | 2265856.04 | Box    | 10x5'     | RCB               |           |          |             |       |        | X             |             | E. Side                             |
| 2094      | 14858913.69 | 2266247.84 |        |           |                   |           |          |             |       |        |               |             | Erosion & Drainage from Plumb       |
| 2095      | 14858835.84 | 2266309.61 |        |           |                   |           |          |             |       |        |               |             | PLUMB EROSION SOURCE                |
| 2096      | 14859165.86 | 2266553.10 |        |           |                   |           |          |             |       |        |               |             | Erosion & Drainage                  |
| 2097      | 14858835.84 | 2266309.61 | Cir.   | 24"       | CMP               |           |          |             |       |        | X             |             | Drain S. Side Erosion               |
| 2098      | 14859738.75 | 2267948.08 |        | 150' Long |                   |           |          |             |       |        | X             |             | Beg. Rockwall Sect. S. Side         |
| 2099      | 14860318.25 | 2269207.80 |        | 20' Long  |                   |           |          |             |       |        |               |             | Gunite Sect.                        |
| 2100      | 14860269.87 | 2269277.75 | Cir.   | 18"       | CMP               |           |          |             |       |        | X             |             | Conc. Sect.                         |
| 2101      | 14860305.20 | 2269350.20 |        | 150'      | CONC              |           |          |             |       |        | X             |             | Conc. Sect.                         |
| 2102      | 14860264.04 | 2269446.96 | Bridge |           | WOOD              |           |          |             |       |        |               |             | Private Bridge                      |
| 2103      | 14860141.48 | 2269915.43 |        | 6"        | Metal             |           |          |             |       |        | X             |             | GV                                  |
| 2104      | 14860123.39 | 2269936.48 | Box    | 4x12'     | RCB               |           |          |             |       |        | X             |             | (W. Plumb Lane) beg. Rockline       |
| 2105      | 14859948.87 | 2270067.72 | Box    | 4x12'     | RCB               |           |          |             |       |        | X             |             |                                     |
| 2106      | 14859664.63 | 2270217.49 | Cir.   | 4"        | CPP               |           |          |             |       |        | X             |             | Plastic pipe drain                  |
| 2107      | 14859540.86 | 2270397.71 |        |           |                   |           |          |             |       |        |               |             | End rock Sect.                      |
| 2108      | 14859464.34 | 2270865.37 | Box    | 4x12'     | RCB               |           |          |             |       |        | X             |             | (Aquilia Ave.)                      |

| POINT NO. | PHOTO NO.   | SHAPE       | SIZE      | MATERIAL | NUMBER OF BARRELS | HEAD-WALL | FES | SLUICE GATE | INLET | OUTLET | ROAD CROSSING | STREAM XING | COMMENTS                       |
|-----------|-------------|-------------|-----------|----------|-------------------|-----------|-----|-------------|-------|--------|---------------|-------------|--------------------------------|
| 2109      | 14859588.65 | Box         | 4x12      | RCB      | X                 |           |     |             |       |        | X             |             | Private Drive                  |
| 2110      | 14859589.31 | 2271255.58  | 6"        |          |                   |           |     |             |       |        |               |             | GV                             |
| 2111      | 14859542.67 | Bridge      | 3'        | Wood     |                   |           |     |             |       |        |               |             | Bridge                         |
| 2112      | 14859528.84 | 2271329.91  | 6"        |          |                   |           |     |             |       |        |               |             | GV                             |
| 2113      | 14859276.90 | Box         | 12x4      | RCB      |                   |           |     |             |       |        | X             |             | {Hunter Lake}                  |
| 2114      | 14859267.39 | 2271696.98  |           | Conc     |                   |           |     |             |       |        | X             |             | Road drainage to ditch         |
| 2115      | 14859275.09 | 2271751.49  | Box       | 12x4     | RCB               |           |     |             |       |        |               |             | East Side                      |
| 2116      | 14859253.25 | 2271930.08  |           | Metal    | 6"                |           |     |             |       |        | X             |             | Plugged GV                     |
| 2117      | 14859406.15 | 22722619.04 |           | Metal    | 6"                |           |     |             |       |        | X             |             | GV                             |
| 2118      | 14859299.53 | 2272806.01  | Squash    | CMP      | 6.5x4.5'          |           |     |             |       |        | X             |             | Private Drive                  |
| 2119      | 14859281.00 | 2272818.37  |           | RR Ties  |                   |           |     |             |       |        |               |             | RR Ties Retaining Wall         |
| 2120      | 14859198.90 | 2272937.42  |           |          |                   |           |     |             |       |        |               |             | RR TIES END                    |
| 2121      | 14859175.19 | 2272979.71  | Cir.      | Metal    | 4"                |           |     |             |       |        | X             |             | Drain to Ditch                 |
| 2122      | 14859069.41 | 2273058.50  | Cir.      | RCP      | 15"               |           |     |             |       |        | X             |             | Drain to Ditch                 |
| 2123      | 14859008.86 | 2273297.87  | Cir.      | Metal    | 2"                |           |     |             |       |        | X             |             | Outlet                         |
| 2124      | 14858982.51 | 2273347.20  | Cir.      | Metal    | 3"                |           |     |             |       |        | X             |             | Yard Drain                     |
| 2125      | 14858720.94 | 2273808.36  | 150' long | Conc     |                   |           |     |             |       |        |               |             | Conc. Sect. 150' long          |
| 2126      | 14858716.53 | 2273797.63  | Cir.      | PVC      | 4"                |           |     |             |       |        | X             |             | Yard Drain                     |
| 2127      | 14858687.34 | 2273807.42  | Box       | RCB      | 6x4'              |           |     |             |       |        | X             |             | Private Drive                  |
| 2128      | 14858632.12 | 2273811.67  |           | Metal    | 4"                |           |     |             |       |        |               |             | (Unknown) dug up pipe          |
| 2129      | 14858458.10 | 2273795.43  | Cir.      | Conc     | 12"               |           |     |             |       |        | X             |             | SD to ditch                    |
| 2129b     |             |             | Squash    | CMP      | 5x3'              |           |     |             |       |        | X             |             | (Webster/Seine Dr.)            |
| 2130      | 14858467.52 | 2273874.30  | Cir.      | Conc     | 12"               |           |     |             |       |        | X             |             | Many manholes across road      |
| 2130b     |             |             | Squash    | CMP      | 5x3'              |           |     |             |       |        | X             |             |                                |
| 2131      | 14858514.08 | 2273933.60  | Bridge    | Wood     | 4'                |           |     |             |       |        |               |             | Bridge                         |
| 2132      | 14858637.45 | 2274129.61  | Cir.      | Metal    | 2"                |           |     |             |       |        | X             |             | Yard Drain & Broken Wall Sect. |
| 2133      | 14858477.79 | 2274314.81  |           | Conc.    |                   |           |     |             |       |        |               |             | Conc. Wall S.W. Side           |
| 2134      | 14858442.45 | 2274340.23  | Box       | RCB      | 10x3'             |           |     |             |       |        | X             |             | Private                        |
| 2135      | 14858434.36 | 2274364.86  |           | Metal    | 6"                |           |     |             |       |        | X             |             | GV                             |
| 2136      | 14858329.41 | 2274526.11  | Bridge    | Wood     | 3"                |           |     |             |       |        | X             |             | Private Walk                   |
| 2137      | 14858229.28 | 2274496.98  | Cir.      | Metal    | 8"                |           |     |             |       |        |               |             | Insulated Metal Pipes          |

| POINT NO. | PHOTO NO.   | SHAPE  | SIZE  | MATERIAL | NUMBER OF BARRELS | HEAD-WALL | FES | SLUICE GATE | INLET | OUTLET | ROAD CROSSING | STREAM XING | COMMENTS                                |
|-----------|-------------|--------|-------|----------|-------------------|-----------|-----|-------------|-------|--------|---------------|-------------|---|
| 2138      | 14857977.51 | Bridge | 4'    | Wood     |                   |           |     |             | X     |        |               |             | Private & 15' plugged Wall Drains       |
| 2139      | 14857667.02 | Bridge | 19'   | Wood     |                   |           |     |             |       |        |               | X           | Stream Inlet                            |
| 2140      | 14857645.46 | Bridge | 83'   | Plastic  | 1                 | X         |     |             | X     |        |               |             | SD Inlet with MH Cover                  |
| 2141      | 14857550.93 | Bridge | 50'   | CMP      | 1                 | X         |     |             |       | X      |               |             | (Unknown) Start Conc Sect. N. Side      |
| 2142      | 14857438.52 | Bridge | 73'   | Conc     |                   |           |     |             |       |        |               |             | End Wall                                |
| 2143      | 14857429.22 | Bridge | 85'   | Metal    |                   |           |     | X           | X     |        |               |             | GV                                      |
| 2144      | 14857266.34 | Bridge | 98'   | Conc     | 2"                | Metal     |     |             | X     |        |               |             | Metal Pipe                              |
| 2145      | 14857260.91 | Bridge | 62'   | Metal    | 6"                |           |     |             |       |        |               |             | X-ing ditch                             |
| 2146      | 14856903.43 | Bridge | 26'   | Wood     | 4"                |           |     |             |       |        |               |             | Private                                 |
| 2147      | 14856693.40 | Bridge | 49'   | Wood     | 4"                |           |     |             |       |        |               |             | Private                                 |
| 2148      | 14856608.68 | Bridge | 26'   | Conc     | 8"                | CMP       |     |             | X     |        |               |             | Yard Drain                              |
| 2149      | 14856589.43 | Bridge | 99'   | Wood     | 3'                |           |     |             |       |        |               |             | Private                                 |
| 2150      | 14856476.88 | Bridge | 111'  | Conc     | 12"               |           |     |             |       |        |               |             | SD & SSMH                               |
| 2151      | 14856414.35 | Squash | 94'   | CMP      | 36"               |           |     |             |       |        |               |             | SD Drainage                             |
| 2152      | 14856412.41 | Bridge | 81'   | Metal    | 6"                |           |     | X           | X     |        |               |             | GV                                      |
| 2153      | 14856312.36 | Box    | 14.14 | RCB      |                   | X         |     | X           |       |        |               | X           | Box Culvert under creek                 |
| 2154      | 14856308.96 | Sluice | 30'   | Conc     | 20'               |           |     |             |       |        |               |             | Sluice                                  |
| 2155      | 14856305.13 | Bridge | 39.04 | Wood     | 18'               |           |     |             |       |        |               |             | Private                                 |
| 2156      | 14856621.47 | Bridge | 78'   | Wood     | 15'               |           |     |             |       |        |               |             | Private Dr.                             |
| 2157      | 14856980.51 | Bridge | 40'   | Wood     | 3'                |           |     |             |       |        |               |             | Private                                 |
| 2158      | 14857052.92 | Bridge | 29'   | Wood     | 15'               |           |     |             | X     |        |               |             | Private beg. 50' rock then 100' granite |
| 2159      | 14857041.98 | Bridge | 26'   | Gunitite | 100'              |           |     |             |       |        |               |             | Gunitite Sect.                          |
| 2160      | 14856849.80 | Bridge | 39'   | Wood     | 15'               |           |     |             | X     |        |               |             | Private Dr.                             |
| 2161      | 14856784.01 | Bridge | 00'   | Wood     | 4'                |           |     |             |       |        |               |             | Private walk                            |
| 2162      | 14856691.10 | Bridge | 19'   | Wood     | 50'               |           |     |             | X     |        |               |             | Private Dr.                             |
| 2163      | 14856592.49 | Bridge | 33'   | Wood     | 20'               |           |     |             | X     |        |               |             | Private Dr.                             |
| 2164      | 14856567.92 | Bridge | 17'   | Wood     | 20'               |           |     |             | X     |        |               |             | Private Dr.                             |
| 2165      | 14856483.08 | Bridge | 98'   | Wood     | 20'               |           |     |             | X     |        |               |             | Private Dr.                             |
| 2166      | 14856368.14 | Bridge | 87'   | CMP      | 6x3'              |           |     |             | X     |        |               |             | (Skyline Creek)                         |

| POINT NO.        | PHOTO NO.  | SHAPE  | SIZE     | MATERIAL   | NUMBER OF BARRELS | HEAD-WALL | FES GATE | SLUICE GATE | INLET, OUTLET | ROAD CROSSING | STREAM XING | COMMENTS                            |
|------------------|------------|--------|----------|------------|-------------------|-----------|----------|-------------|---------------|---------------|-------------|-------------------------------------|
| 2167 14856370.21 | 2274276.44 |        | 18"      | RCP        | 1                 |           |          |             | X             |               |             | Catch Basin drop in at Bridge       |
| 2168 14856408.24 | 2274334.84 |        | 100'x4'  | Brick      |                   |           |          |             |               |               |             | N. Side Brick / S. Side Rock        |
| 2169 14856386.94 | 2274426.57 |        |          |            |                   |           |          |             |               |               |             | END BLOCK WALL E ROCK W             |
| 2170 14855906.12 | 2274608.85 | Squash | 3'x6'    | CMP        | 1                 | X         |          |             |               | X             |             | (Rancho Manor Dr.)                  |
| 2171 14855591.58 | 2274775.31 |        | 5'       | Wood       |                   |           |          |             |               |               |             | Retaining wall E. Side              |
| 2172 14855496.15 | 2274703.42 |        |          |            |                   |           |          |             |               |               |             | END WOOD RET WALL                   |
| 2173 14855437.44 | 2274628.56 | Cir.   | 72"      | RCP        | 1                 | X         |          |             |               | X             |             | (Monterey Dr.) CB Both Sides        |
| 2174 14855126.28 | 2274469.48 | Squash | 3'x6'    | CMP        | 1                 | X         |          |             |               | X             |             | (Moana)                             |
| 2175 14854747.54 | 2274543.13 |        | 150'     | Conc       |                   |           |          |             |               |               |             | Conc Sect.                          |
| 2176 14854709.17 | 2274666.28 |        |          |            |                   |           |          |             |               |               |             | END CONC SEC                        |
| 2177 14854604.66 | 2275039.60 | Cir.   | 4"       | CPP        |                   |           |          |             |               |               |             | Plastic Pipe Yard Drain             |
| 2178 14854571.58 | 2275037.32 | Cir.   | 4"       | PVC        |                   |           |          |             |               |               |             | Yard Drain                          |
| 2179 14854095.97 | 2274910.00 |        |          | Conc       |                   |           |          |             |               |               |             | Beg. Conc Sect.                     |
| 2180 14854066.76 | 2274906.20 | Cir.   | 5"       | PVC        |                   |           |          |             |               |               |             | Yard Drain                          |
| 2181 14853992.39 | 2274982.19 | Cir.   | 4"       | PVC        | 3                 |           |          |             |               |               |             | Yard Drain                          |
| 2182 14854006.91 | 2275018.07 |        |          |            |                   |           |          |             |               |               |             | END GUNNITE E SIDE                  |
| 2183 14854191.77 | 2275450.19 | Box    | 6'x12'   | RCB        |                   |           |          |             |               |               |             | (Pioneer Dr.)                       |
| 2184 14854193.54 | 2275559.40 | Bridge | 12' wide | Wood       |                   |           |          |             |               |               |             | Additional 6" sluice GV             |
| 2185 14853608.49 | 2275507.18 | Bridge | 3'       | Wood       |                   |           |          |             |               |               |             | Private                             |
| 2186 14853494.91 | 2275410.42 | Bridge | 12'      | Wood       |                   |           |          |             |               |               |             | Trail Bridge                        |
| 2187 14853194.97 | 2275229.10 | Bridge | 12'      | Wood       |                   |           |          |             |               | X             |             | Trail Bridge <del>Dont Draw</del>   |
| 2188 14853193.26 | 2275385.48 |        | 50'      | Conc       |                   |           |          |             |               |               |             | Conc Sect.                          |
| 2189 14853636.83 | 2275982.61 | Bridge | 15'      | Wood       |                   |           |          |             |               |               |             | Private Dr.                         |
| 2190 14853594.80 | 2276024.80 |        |          | Conc       |                   |           |          |             |               |               |             | Beg. Conc Sect.                     |
| 2191 14853555.25 | 2276059.46 | Bridge | Wood     |            |                   |           |          |             |               |               |             | Private Dr.                         |
| 2192 14853429.23 | 2276176.29 | Bridge | 8"       | Wood/Metal |                   |           |          |             |               |               |             | Private Dr.                         |
| 2193 14853395.48 | 2276211.63 |        | 8"       | Gumite     |                   |           |          |             |               |               |             | End Conc Beg. Gunite GV             |
| 2194 14853328.07 | 2276289.82 |        | 8"       | 75' Sect   |                   |           |          |             |               |               |             | GV and Beg. Gunite E. Side          |
| 2195 14853011.71 | 2276166.99 | Squash | 3'x6'    | CMP        | 1                 | X         |          |             |               | X             |             | Private Dr.                         |
| 2196 14852978.40 | 2276150.16 |        | 6"       | Metal      |                   |           |          |             |               |               |             | GV                                  |
| 2197 14852820.81 | 2276126.37 |        | 6"       | Metal      |                   |           |          |             |               |               |             | GV                                  |
| 2198 14852674.56 | 2275877.25 |        | 6"       | Metal      |                   |           |          |             |               |               |             | GV                                  |
| 2199 14852383.21 | 2276060.61 |        | 6"       | Metal      |                   |           |          |             |               |               |             | GV                                  |
| 2200 14852370.73 | 2276064.61 | Box    | 10'x4'   | RCB        |                   |           |          |             |               |               |             | Private Xtra photo of S. Side Drain |

| POINT NO. | PHOTO NO.    | PHOTO NO.  | SHAPE      | SIZE   | MATERIAL | NUMBER OF BARRELS | HEAD-WALL | FES | SLUICE GATE | INLET | OUTLET | ROAD CROSSING | STREAM XING | COMMENTS                           |
|-----------|--------------|------------|------------|--------|----------|-------------------|-----------|-----|-------------|-------|--------|---------------|-------------|------------------------------------|
| 2201      | 148552250.47 | 2276037.92 |            | 75'    | Brick    |                   |           |     |             |       |        |               |             | Beg. Wall/2x4" Plastic Yard Drains |
| 2202      | 14852119.05  | 2276157.56 |            | 4"     | Metal    |                   |           |     | X           |       |        |               |             | GV and Gunite Sect                 |
| 2203      | 14851835.03  | 2276131.06 | Box        | 20'x6' | RCB      |                   |           |     |             |       |        |               |             | (Manzanita) Wall S. Side           |
| 2204      | 14851672.55  | 2276306.48 |            |        |          |                   |           |     |             |       |        |               |             | 20X6 RD XING                       |
| 2205      | 14851463.16  | 2276307.17 | Cone/Brick |        |          |                   |           |     |             |       |        |               |             | End Wall                           |
| 2206      | 14851434.26  | 2276287.42 | Bridge     | 3'     | Wood     |                   |           |     |             |       |        |               |             | Private Walk                       |
| 2207      | 14851352.56  | 2275825.24 | Cir.       | 4"     | PVC      |                   |           |     | X           |       |        |               |             | Yard Drain                         |
| 2208      | 14851102.65  | 2275336.19 |            | 40'    | Conc     |                   |           |     |             |       |        |               |             | 40' Sect                           |
| 2209      | 14850710.67  | 2275484.77 | Bridge     | 4'     | Wood     |                   |           |     |             |       |        |               |             | Private                            |
| 2210      | 14850626.75  | 2275484.20 |            | 4"     | Metal    |                   |           |     |             |       |        |               |             | GV                                 |
| 2211      | 14850538.85  | 2275531.30 |            |        |          |                   |           |     |             |       |        |               |             | 6" W CONC                          |
| 2212      | 14850856.36  | 2275893.69 | Cir.       | 2"     | PVC      |                   |           |     | X           |       |        |               |             | Yard Drain photo says 2213         |
| 2213      | 14850831.47  | 2276045.10 | Cir.       | 15"    | RCP      | 1                 |           |     | X           |       |        |               |             | SD to Ditch                        |
| 2214      | 14850674.91  | 2276278.67 | Bridge     | 20x5'  | Conc     |                   |           |     |             | X     |        |               |             | (Rio Pinard Dr) SD both Sides      |
| 2215      | 14850641.03  | 2276307.31 |            |        |          |                   |           |     |             |       |        |               |             | CB @ 20X4 RD XING                  |
| 2216      | 14850549.38  | 2276405.18 |            |        |          |                   |           |     |             |       |        |               |             | End Gunite                         |
| 2217      | 14849790.54  | 2276505.75 | Box        | 5'x6"  | Conc     |                   |           |     |             | X     |        |               |             | (McCarren) with Catch Basin drop   |
| 2218      | 14849637.43  | 2276703.44 |            |        |          |                   |           |     |             | X     |        |               |             | Catch Basin to Ditch               |
| 2219      | 14849634.98  | 2276728.67 |            |        |          |                   |           |     |             |       |        |               |             | BOX S MCCARRAN                     |
| 2220      | 14849548.44  | 2276874.80 | Box        | 5'x8"  | RCB      |                   |           |     |             | X     |        |               |             | Golf Parking                       |
| 2221      | 14849261.28  | 2276935.23 | Squash     | 5'x4"  | CMP      |                   |           |     |             | X     |        |               |             | Under Driving Range                |
| 2222      | 14849119.09  | 2277050.80 |            |        |          |                   |           |     |             |       |        |               |             | 72" CMP 75FT EAST                  |
| 2223      | 14849080.37  | 2277130.09 | Box        | 5'x10' | RCB      |                   |           |     |             | X     |        |               |             | Entrance to Lakeside               |
| 2224      | 14849028.69  | 2277167.86 | Bridge     | 6"     |          |                   |           |     | X           |       | X      |               |             | GV and Bridge                      |
| 2225      | 14848558.07  | 2277195.14 | Squash     | 6'x4'  | CMP      | 1                 |           |     |             | X     |        |               |             | Course Trail                       |
| 2226      | 14848811.85  | 2277345.71 | Cir.       | 4"     | PVC      |                   |           |     |             |       |        |               |             | Golf Drainage 7@200' Intervals     |
| 2227      | 14848125.35  | 2277589.85 | Squash     | 4'x6"  |          |                   |           |     | X           |       |        |               |             | Pond Irrigation & Conc Sect.       |
| 2228      | 14847831.00  | 2277773.77 | Bridge     | 4'x6"  | CMP      |                   |           |     |             | X     |        |               |             | Golf Course                        |
| 2229      | 14847860.06  | 2278295.99 |            | 15"    | RCP      | 1                 |           |     |             | X     |        |               |             | SD to Ditch                        |
| 2230      | 14847608.48  | 2278472.18 | Box        | 12'x5' | RCB      |                   |           |     |             | X     |        |               |             | (Plumas) SD both Sides             |
| 2231      | 14847555.37  | 2278556.77 | Cir.       | 6"     | PVC      | 2                 |           |     |             | X     |        |               |             | SD to Ditch                        |
| 2232      | 14847462.57  | 2278740.26 | Squash     | 6'x4"  | CMP      |                   |           |     | X           |       | X      |               |             | GR Ranch entrance                  |
| 2233      | 14847078.85  | 2279206.53 |            | 5'x10" | Conc     |                   |           |     | X           |       | X      |               |             | Ditch Drainage Control             |
| 2234      | 14846929.70  | 2279301.95 | Box        | 12x5'  | RCB      |                   |           |     |             | X     |        |               |             | (Evans Creek Rd)                   |
| 2235      | 14846861.99  | 2279296.52 |            |        |          |                   |           |     |             |       |        |               |             | 5X10 SG STREAM XING                |
| 2236      | 14846597.14  | 2279272.93 |            |        |          |                   |           |     |             |       |        |               |             | 5X12 @ RD                          |

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C.I.P.

**LAST CHANCE DITCH - CAPITAL IMPROVEMENT PLAN**

**5-POINT RATING SYSTEM**

**1 = IMMEDIATE ACTION REQUIRED**

**5 = NO ACTION NECESSARY**

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| POINT NO. | RATING | COMMENTS                           | RECOMMENDED ACTION  |
|-----------|--------|------------------------------------|---|
| 2004      |        | Outlet drain under flume           | <b>FIELD INVESTIGATION REQUIRED</b>   |
| 2007      | 4      | 20' conc sect And Rock lined ditch | Construct 6" curb on either side of concrete section<br>to confine runoff to concrete slab  |
| 2016      | 5      | (White Fir) Box culvert            | None  |
| 2018      | 5      | N. Side                            | None  |
| 2025      | 3      | Drainage inlet                     | Rip-rap to flowline of ditch  |
| 2034      | 5      | (Juniper) Box Culvert              | None  |
| 2035      | 5      | inlet from west                    | None  |
| 2036      | 5      | Ditch Drainage Inlet               | None  |
| 2037      | 5      | Concrete Abutment                  | None  |
| 2071      | 5      | CMP lined culvert with gate        | None  |
| 2072      | 5      | Caughlin Ranch Drainage            | None  |
| 2073      | 5      | Path crossing with Xtra Photo      | None  |
| 2074      | 4      | Path crossing                      | Clean out culverts  |
| 2075      | 4      | Path crossing                      | Clean out culverts  |
| 2076      | 5      | (McCarran) Bridge                  | None  |
| 2079      | 5      | End Barrel                         | None  |
| 2082      | 5      | RCB Caughlin Crossing              | None  |
| 2084      | 5      | RCB N. Side                        | None  |
| 2087      | 5      | 36" RCP                            | None  |
| 2088      | 5      | (McCarran)                         | None  |
| 2090      | 5      | N. Side                            | None  |
| 2092      | 5      | (Homewood) W. side                 | None  |
| 2093      | 5      | E. Side                            | None  |
| 2094      | 1      | Erosion & Drainage from Plumb      | Rip-rap from Plumb to flowline of ditch   |
| 2096      | 2      | Erosion & Drainage                 | Rip-rap to flowline of ditch  |
| 2097      | 2      | Drain S. Side Erosion              | Rip-rap to flowline of ditch  |
| 2100      | 3      | 18" CMP from private pond          | Construct headwall and rip-rap to flowline of ditch   |
| 2104      | 5      | (W. Plumb Lane) beg. Rockline      | None  |
| 2108      | 5      | (Aquila Ave.)                      | None  |
| 2109      | 5      | Private Drive                      | None  |
| 2113      | 5      | (Hunter Lake)                      | None  |
| 2114      | 3      | Road drain to ditch                | Replace concrete lined swale to ditch with rip-rap to flowline  |
| 2115      | 5      | East Side                          | None  |
| 2118      | 5      | Private Drive                      | None  |
| 2122      | 4      | Drain to Ditch                     | Rip-rap to flowline of ditch  |
| 2128      | 4      | Unknown dug up pipe                | Couldn't be reached for verification. Indication: plug pipe<br>and fill hole.   |
| 2129      | 4      | 12" RCP                            | Repair concrete   |
| 2129b     | 5      | (Webster/Setting Dr.)              | None  |
| 2130      | 3      | Many manholes across road          | Construct splash pad  |
| 2130b     | 5      | Needs Investigation                | None  |
| 2140      | 5      | SD Inlet with MH Cover             | None  |
| 2141      | 5      | (unknown)Start Conc Sect. N. Side  | None  |
| 2148      | 3      | Yard Drain                         | Rip-rap to flowline of ditch  |
| 2150      | 1      | Drain from Reanon Ct. near SSMH    | Construct headwall and rip-rap to flowline of ditch<br>Construct small masonry retaining wall in front of SSMH<br>to allow backfill around SSMH |
| 2153      | 5      | Box Culvert under creek            | None  |
| 2166      | 5      | (Skyline Circle)                   | None  |

|      |   |                                  |   |
|------|---|----------------------------------|---|
| 2167 | 5 | Catch Basin drop in at Bridge    | None  |
| 2170 | 5 | (Rancho Manor Dr.)               | None  |
| 2173 | 5 | (Monterey Dr.) Catch Basin       | None  |
|      | 5 | Drop ins on both sides of road   | None  |
| 2174 | 4 | (Moana)                          | Construct wingwalls or rip-rap                      |
| 2183 | 5 | (Pioneer Dr.)                    | None  |
| 2187 | 5 | Trail Bridge additional photo    | None  |
| 2203 | 4 | (Manzanita) Wall S. Side         | Construct wingwalls or rip-rap                      |
| 2213 | 2 | SD to Ditch                      | Construct headwall and rip-rap to flowline of ditch |
| 2214 | 3 | (Rio Pinard Dr) SD both Sides    | Construct wingwalls or rip-rap                      |
| 2217 | 5 | (McCarran) with Catch Basin drop | None  |
| 2218 | 5 | Catch Basin to Ditch             | None  |
| 2220 | 5 | Golf Parking Pic Says 2219       | None  |
| 2221 | 5 | Under Driving Range              | None  |
| 2223 | 5 | Entrance to Lakeside             | None  |
| 2225 | 5 | Course Trail                     | None  |
| 2228 | 5 | Golf Course                      | None  |
| 2229 | 2 | Private SD to Ditch              | Construct headwall and rip-rap to flowline of ditch |
| 2231 | 2 | Private SD to Ditch              | Construct headwall and rip-rap to flowline of ditch |
| 2232 | 5 | GR Ranch entrance                | None  |
| 2234 | 5 | (Evans Creek Rd)                 | None  |