



00186534202410124130660668

SHAWNYNE GARREN, RECORDER

Recording Requested By:**Name: Nicole Hubbard****Department: Public Works**

United States Department of the Interior - Right of Way Grant -
Mountain View Water Storage Tanks

(Title of Document)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RIGHT-OF-WAY GRANT/TEMPORARY USE PERMIT

Issuing Office
Sierra Front Field Office

Serial Number
NVN 045053

1. A (right-of-way) (permit) is hereby granted pursuant to:

- a. Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761);
- b. Section 28 of the Mineral Leasing Act of 1920, as amended (30 U.S.C. 185);
- c. Other (describe) _____

2. Nature of Interest:

- a. By this instrument, the holder **Douglas County** _____ receives a right to construct, operate, maintain, and terminate a **2 water tank and access road** _____ on public lands (or Federal land for MLA Rights-of-Way) described as follows:

Within the following described lands:

Mount Diablo Meridian, Nevada

T. 14 N., R. 20 E.,
Sec. 21, SESE;
Sec. 22, SWSW;
Sec. 27, NWNW.

- b. The right-of-way or permit area granted herein is 450 feet wide, 589 feet long and contains 6.36 acres, more or less. If a site type facility, the facility contains _____ acres.
- c. This instrument shall terminate on December 31, 2054, _____ years from its effective date unless, prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.
- d. This instrument may may not be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.
- e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental:

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

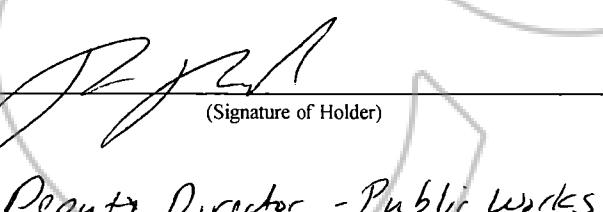
- a. This grant or permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations parts 2800 and 2880.
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 120 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued pursuant to the authority of paragraph (1)(a) for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibit(s) A, dated December 2023, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of-way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.

Exhibit A: Plan of Development dated December 2023

Exhibit B: Construction Drawings dated July 2024

Exhibit C: Additional Terms and Conditions

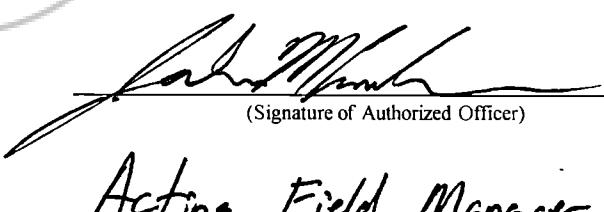
IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant or permit.


(Signature of Holder)

Deputy Director - Public Works
(Title)

8/30/24

(Date)


(Signature of Authorized Officer)

Acting Field Manager
(Title)

9/4/2024

(Effective Date of Grant)

Exhibit A

Mountain View Water Storage Tank Amendment to N-45053 Plan of Development

Purpose and Need for the Facility

Douglas County owns and operates the existing ±600,000-gallon Mountain View potable water storage tank which is located on BLM land (grant N-45053). The tank currently serves ±671 equivalent dwelling units (EDUs) and is estimated to serve ±832 EDUs at build out of the service area. However, the tank is approximately 35 years old, undersized, doesn't meet current design standards, and is reaching the end of its useful life. Photos of the existing tank and access road are shown in Figure 1.

To address these deficiencies, Douglas County proposes constructing two permanent ±565,000-gallon (nominal) water storage tanks at the same site to replace the existing Mountain View tank. The tanks will be used to store water to meet potable, emergency, and firefighting demands. Table 1 provides a summary of dimensions and details for the proposed tanks.

Table 1 – Proposed Tank(s) Details

Number of Tanks	2
Construction Material	Welded Steel
Diameter	66-feet
Tank Height	27.65-feet
Tank Overflow Height	23-feet
Operating Water Depth	22-feet
Operating Volume per Tank	563,000
Total Operating Volume (2 Tanks)	1,126,000

The following work is also anticipated as part of the proposed project:

- Construction of ±210-feet of underground potable water pipe to connect the new water tanks to the existing water line.
- Construction of ±144-feet of underground water pipe to drain the new water tanks.
- Construction of a drain water retention basin.
- Construction of electrical conduit between the tanks and the existing electrical cabinets.
- Realignment of ±3,400 square feet of approach road.
- Regrading of ±2,800 linear feet of existing access road.
- Construction of ±1,1450 square yards of asphalt site pavement

The engineer's opinion of probable cost for the project is \$5,510,000. A map showing the location of the existing tank and proposed tanks is shown in Figure 2.

As part of the preliminary design, three additional tank replacement alternatives were considered. These include 1) constructing a new tank at the existing tank site (\$5,860,000), 2) constructing a new tank at a new site north of the existing tank (\$5,950,000), and 3) phasing construction of two new tanks at the existing site (\$6,120,000). The rejected alternatives were not chosen because they had higher capital costs and were more difficult to construct.

Mountain View Water Storage Tank
Amendment to N-45053
Plan of Development

Douglas County, NV Public Works

Right-of-Way Location

Figure 3 shows the location of the proposed amended BLM permit area, the current BLM permit area, and the pre-existing access road. A summary of the area and dimensions are shown in the following table.

Table 2 – Permit Area and Dimensions (longest)

	Area (acres)	Length (ft)	Width (ft)
Existing BLM Grant N-45053	6.36	740 (longest)	450 (longest)
Proposed Permit Area	7.49	662 (longest)	648 (longest)
Proposed Access Road Area	1.70	2,475	30

Please note that Douglas County will hire a Professional Land Surveyor to prepare the legal description(s) when the final BLM permit area is defined.

Facility Design Factors

The proposed project is being designed by Keller Associates, an engineering firm licensed in the State of Nevada, and overseen by the Douglas County Public Works Engineering Department. The work is being designed to meet the codes established in Nevada Administrative Code 445A, the standards established in the Douglas County Design Standards, specifications established in the *Standard Specifications for Public Works Construction (Orange Book)*, the American Water Works Association (AWWA) *Manual of Water Supply Practices M42 Steel Water Storage Tanks*, and AWWA Standard D100. All construction materials will be in compliance with AWWA standards and NSF 61 certified ensuring that water entering/leaving the project will be safe for human consumption.

New underground water pipelines will be primarily constructed using AWWA C900 DR18 PVC pipe (pressure class 235 psi) and/or AWWA C151 ductile iron pipe (pressure class 350 psi). Anticipated pipe pressures range from 0 psi (empty pipe) to ± 12 psi (full tank). Pipe will be buried at minimum 42-inches underground.

The realigned approach road ($\pm 3,640$ square feet) to the tank site will be gravel on native soils. The existing access road ($\pm 2,800$ -feet by ± 15 -feet) will remain native soils and follow the existing contours. No bridges, or water crossings are needed on the existing access road or the realigned approach road. One culvert will be installed as part of the drain water retention basin construction.

It is anticipated that the Contractor will be able to stage construction materials and equipment adjacent to the existing water storage tank. No other BLM property will be approved for staging, further development, or installation of temporary facilities.

Additional Components of Right-of-Way

At this time there are no additional project components other than detailed in other sections of the POD.

Site Selection

No site selection evaluation was completed due to the existing water tank on the site.

Government Agencies Involved

The following permits, rights-of-way, etc. are anticipated for the project:

- BLM grant or right-of-way
- Nevada Division of Environmental Protection Bureau of Safe Drinking Water Permit to Construct
- Douglas County Site Improvement Permit
- East Fork Fire Protection District Permit

Douglas County Public Works is managing the project from preliminary design through construction and will own and operate the proposed new tanks. No other direct Federal, State, Local, or Tribal Government involvement is anticipated.

Construction of the Facilities

Construction of the proposed new tanks will likely occur in the following phases:

Phase 1 – Site Grading. In this phase the BLM grant/ROW and work area will be staked, the contractor will excavate and grade the site to allow for construction of the new tanks, and realignment of the approach road. In this phase it is estimated that ±4,633 cubic yards of cut material will be removed from the site. During this phase it is anticipated to have heavy equipment grading the site and dump trucks hauling cut material from the site for several weeks.

Phase 2 – Civil Site Work. In this phase water pipeline and drain line will be constructed for both new tanks. This phase will likely require an excavator and loader/backhoe to complete the work.

Phase 3 – Tank 1 Construction. In this phase tank 1 will be constructed, tested, and brought into service. Tank construction crews typically consist of 3 to 5 workers and a fork lift (or similar) and coating crews typically consist of 2 to 4 workers with minor onsite equipment.

Phase 4 – Existing Tank Demolition. During this phase the existing tank will be demolished and removed from the project site. Some site grading will be completed to prepare the site for construction of tank 2. To complete the work the contractor will likely rely on a forklift (or similar) to demolish the tank and heavy earth moving equipment to grade the site for tank 2.

Phase 5 – Tank 2 Construction. In this phase tank 2 will be constructed, tested, and brought into service. Tank construction crews typically consist of 3 to 5 workers and a fork lift (or similar) and coating crews typically consist of 2 to 4 workers with minor onsite equipment.

Phase 6 – Site Cleanup. During this phase the site fence will be constructed and all ground surfaces will be finished (i.e. gravel approach road and site paving). In addition, the contractor will clean the site and demobilize all non-permanent equipment and materials. This phase will require various equipment.

It is anticipated that the project will take 12-months to complete all six phases of the construction. The contractor will be confined to the approved BLM grant/ROW.

Mountain View Water Storage Tank
Amendment to N-45053
Plan of Development

Douglas County, NV Public Works

Access to the site will be along the existing north-south access road. Ingress/egress to BLM lands and the existing access road is off Porter Drive. The contractor will be required to have and implement a safety program while working on the site.

No industrial waste or toxic substances will be used, generated, discharged, or left on the project site.

Resource Values and Environmental Concerns

Air – The proposed project will not lead to any permanent deterioration in air quality. However, it may lead to temporary, localized deterioration in air quality due to the use of heavy equipment, excavation, and grading required to complete the work.

Noise – The proposed project will not lead to any permanent changes in noise. However, it may lead to temporary, localized increase in noise due to the use of heavy equipment, excavation, and grading required to complete the work. Douglas County code does limits work to 7:00AM to 7:00PM.

Geological Hazards – No known geological hazards exist at the project site.

Mineral and Energy Resources – No known mineral and energy resources exist at the project site.

Paleontological Resources – No known paleontological resources exist at the project site.

Soils – The proposed permit area consists of primarily Incy fine sand (4 to 30% slopes) with the very southeast corner of the area consisting of Koontz-Stodick-Flex Association. The access road area consists of Incy fine sand (4 to 30% slopes) and Toll sand (0 to 4% slopes). None of the soils present is considered prime farmland (websoilsurvey.nrcs.usda.gov/app/).

Water – There are no blue line streams in the vicinity of the project area.

Threatened and Endangered Species –Table 3 list threatened or endangered species that may exist in the vicinity of the project. No critical habitat is identified in the vicinity of the project (ipac.ecosphere.fws.gov/location/index).

Table 3 – Threatened and Endangered Species

Greater Sage-grouse	Proposed Threatened
Northwestern Pond Turtle	Proposed Threatened
Carson Wandering Skipper	Endangered
Monarch Butterfly	Candidate

Cultural Resources – No known cultural resources exist at the project site.

Visual Resources – No known visual resources exist at the project site. However, there is an existing water tank at the project site.

BLM Projects – No known BLM projects exist at the project site.

Mountain View Water Storage Tank
Amendment to N-45053
Plan of Development

Douglas County, NV Public Works

Recreation Activities – Land adjacent to the project site is used for off highway vehicles (OHVs), hikers, and other recreational uses. The proposed project will have limited impact on public access to BLM lands.

Wilderness – There are no wilderness or wilderness study areas at the project site.

Stabilization and Rehabilitation

Disturbed soils will be reseeded with native vegetation. Seeding specifications will be developed as the project design progresses.

Trash, debris, rubbish, and other garbage generated during construction will be regularly collected by the contractor and hauled offsite for proper disposal (likely the Douglas County transfer station).

Public access to the tank site will be limited but the access road will continue to be open to the general public.

Operation and Maintenance

The Douglas County Public Works Department employs nine licensed water distribution operators and three Professional Engineers that specialize in potable water. Operations staff complete exterior tank inspections on a monthly basis and interior inspections (using a diver) every 3-years. These inspections take place during the work week between 7:30AM and 4:00PM. Operations and maintenance will be performed in accordance with County safety procedures. Operations and maintenance activities will be confined within the approved BLM grant/ROW.

The tank site will be accessed by the existing access road previously described. The tank site will be signed and fenced with anti-intruder chain link fencing (chain link with barb wire along the top). The fence will be installed to deter public access to the actual tank site for the safety of the public and to deter bad actors from vandalizing the tank site or disrupting operation of the water system. Access to the fenced tank site will be primarily limited to Public Works staff. However, BLM, regulators, and subcontractors will be admitted to the site by Public Works on an as-needed basis.

The tanks will be equipped with instrumentation and controls that will trigger a pump station (not located on BLM lands) to turn on to fill the tank and turn off when the tank has reached its operational level. Level transmitters will be used to monitor the water level in each tank and a back up float switch will be installed to turn off the pump station if the level transmitter fails. This redundant configuration will significantly reduce the risk of a tank overflow. Tank water levels and pump station status can be monitored remotely through the Public Works supervisory control and data acquisition (SCADA) system.

The new tanks and pipelines will be hydrostatically tested and disinfected using potable water from the County's distribution system. Disinfection water will be dechlorinated prior to release, in accordance with AWWA standards. The anticipated volume of water released is 1.13 million gallons

The tanks will be constructed of welded steel and do not pose a fire risk to the tank site. However, the tanks will improve fire fighting ability in the Johnson Lane area by increasing the volume of stored water available in an emergency.

**Mountain View Water Storage Tank
Amendment to N-45053
Plan of Development**

Douglas County, NV Public Works

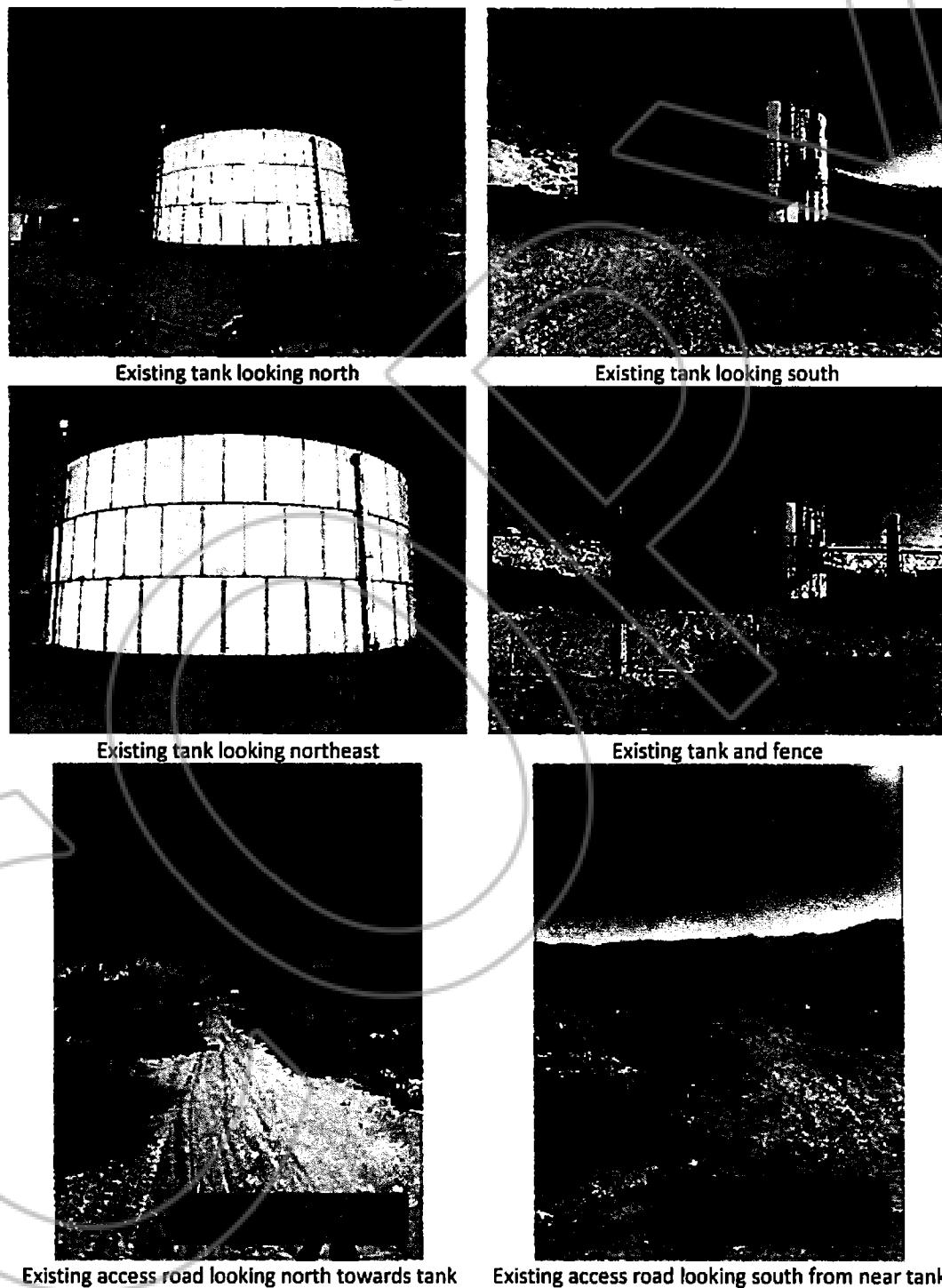
In addition to being easier to construct, two tanks will provide redundancy for the water system and will be easier to service and repair in the future.

Termination and Restoration

The tank site is considered permanent and will serve the public for many years. There are no plans to terminate use of the tank site. Two tanks are being installed for numerous reasons including to meet future demand, provide additional firefighting capability, and to simplify future repairs and rehabilitation of the tanks (i.e. one tank can be taken offline for rehabilitation while the other tank stays in service).



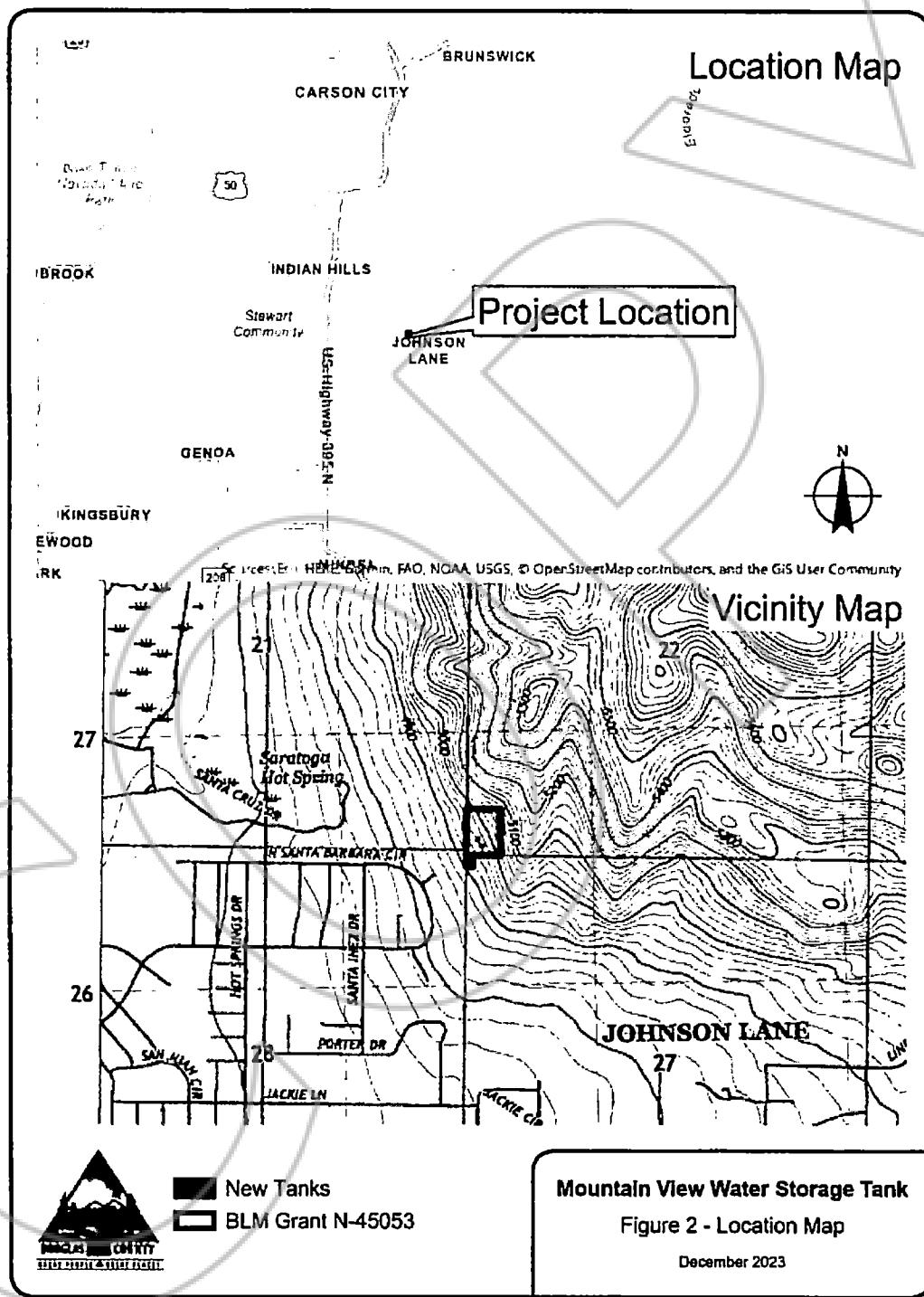
Figure 1 – Site Photos



Mountain View Water Storage Tank
Amendment to N-45053
Plan of Development

Douglas County, NV Public Works

Figure 2 – Location Map



**Mountain View Water Storage Tank
Amendment to N-45053
Plan of Development**

Douglas County, NV Public Works

Figure 3 – Proposed BLM Permit Area



LIST OF DRAWINGS		DISCIPLINE DESIGNATORS																																																																																																																																																																	
<table border="1"> <thead> <tr> <th>SHEET NUMBER</th> <th>SHEET TITLE</th> <th colspan="2">SHEET LIST TABLE</th> </tr> </thead> <tbody> <tr> <td>G-001</td> <td>GENERAL</td> <td colspan="2">TITLE SHEET</td> </tr> <tr> <td>G-002</td> <td></td> <td colspan="2">SHEET INDEX</td> </tr> <tr> <td>G-003</td> <td></td> <td colspan="2">NOTESHEET</td> </tr> <tr> <td>G-004</td> <td></td> <td colspan="2">STANDARD ABBREVIATIONS</td> </tr> <tr> <td>G-005</td> <td>CIVIL</td> <td colspan="2">PIPE SCHEDULE</td> </tr> <tr> <td>G-006</td> <td></td> <td colspan="2">SYMBOL & LINE LEGEND</td> </tr> <tr> <td>C-011</td> <td>EXISTING SITE AND ACCESS</td> <td colspan="2">SITE ENCLOSURE PLAN</td> </tr> <tr> <td>C-010</td> <td></td> <td colspan="2">WATER TANKS SITE PLAN</td> </tr> <tr> <td>C-110</td> <td></td> <td colspan="2">GRADING KEY MAP</td> </tr> <tr> <td>C-200</td> <td></td> <td colspan="2">WATER TANKS GRADING PLAN</td> </tr> <tr> <td>C-210</td> <td></td> <td colspan="2">GENERAL PROJECT CROSS SECTION</td> </tr> <tr> <td>C-211</td> <td></td> <td colspan="2">TANK CROSS SECTION</td> </tr> <tr> <td>C-212</td> <td></td> <td colspan="2">ENERGY DISSIPATION SECTION</td> </tr> <tr> <td>C-214</td> <td></td> <td colspan="2">YARD SPACING KEY MAP</td> </tr> <tr> <td>C-400</td> <td></td> <td colspan="2">WATER LINE PLAN & PROFILE</td> </tr> <tr> <td>C-410</td> <td></td> <td colspan="2">DRAINLINE PLANS PROFILE</td> </tr> <tr> <td>C-411</td> <td></td> <td colspan="2">STORM DRAIN CLAVERLY PLANS & PROFILE</td> </tr> <tr> <td>C-510</td> <td></td> <td colspan="2">VALVE DETAILS</td> </tr> <tr> <td>C-511</td> <td></td> <td colspan="2">CIVIL DETAILS</td> </tr> <tr> <td>C-512</td> <td></td> <td colspan="2">DOUGLAS COUNTY DETAILS (OF 3)</td> </tr> <tr> <td>C-513</td> <td></td> <td colspan="2">DOUGLAS COUNTY DETAILS (OF 3)</td> </tr> <tr> <td>E-120</td> <td>SITE ELECTRICAL</td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td colspan="2">ELECTRICAL SITE PLAN</td> </tr> <tr> <td></td> <td></td> <td colspan="2">TANK 1 - STRUCTURAL PLAN</td> </tr> <tr> <td>E-101</td> <td></td> <td colspan="2">TANK 1 - MECHANICAL PLAN</td> </tr> <tr> <td>E-102</td> <td></td> <td colspan="2">TANK 1 - ELECTRICAL AND INSTRUMENTATION PLAN</td> </tr> <tr> <td></td> <td></td> <td colspan="2">TANK 2 - STRUCTURAL SECTION</td> </tr> <tr> <td>E-202</td> <td></td> <td colspan="2">TANK 2 - STRUCTURAL SECTION</td> </tr> <tr> <td>E-402</td> <td></td> <td colspan="2">TANK 3 - MECHANICAL PLAN</td> </tr> <tr> <td>E-101</td> <td></td> <td colspan="2">STRUCTURAL DETAILS TANKS 1 & 2</td> </tr> <tr> <td>E-501</td> <td></td> <td colspan="2">STRUCTURAL DETAILS</td> </tr> <tr> <td>E-502</td> <td></td> <td colspan="2">STRUCTURAL DETAILS</td> </tr> <tr> <td>E-503</td> <td></td> <td colspan="2">STRUCTURAL DETAILS</td> </tr> <tr> <td>E-601</td> <td>ELECTRICAL</td> <td colspan="2">ELECTRICAL DETAILS</td> </tr> <tr> <td>E-602</td> <td></td> <td colspan="2">ONE-LINE DIAGRAM</td> </tr> <tr> <td>E-603</td> <td></td> <td colspan="2">CABLE AND CONDUIT SCHEDULES</td> </tr> <tr> <td>E-701</td> <td></td> <td colspan="2">PAID LEGEND</td> </tr> <tr> <td>E-702</td> <td></td> <td colspan="2">PAID LEGEND</td> </tr> <tr> <td>E-703</td> <td></td> <td colspan="2">PAID</td> </tr> </tbody> </table>		SHEET NUMBER	SHEET TITLE	SHEET LIST TABLE		G-001	GENERAL	TITLE SHEET		G-002		SHEET INDEX		G-003		NOTESHEET		G-004		STANDARD ABBREVIATIONS		G-005	CIVIL	PIPE SCHEDULE		G-006		SYMBOL & LINE LEGEND		C-011	EXISTING SITE AND ACCESS	SITE ENCLOSURE PLAN		C-010		WATER TANKS SITE PLAN		C-110		GRADING KEY MAP		C-200		WATER TANKS GRADING PLAN		C-210		GENERAL PROJECT CROSS SECTION		C-211		TANK CROSS SECTION		C-212		ENERGY DISSIPATION SECTION		C-214		YARD SPACING KEY MAP		C-400		WATER LINE PLAN & PROFILE		C-410		DRAINLINE PLANS PROFILE		C-411		STORM DRAIN CLAVERLY PLANS & PROFILE		C-510		VALVE DETAILS		C-511		CIVIL DETAILS		C-512		DOUGLAS COUNTY DETAILS (OF 3)		C-513		DOUGLAS COUNTY DETAILS (OF 3)		E-120	SITE ELECTRICAL					ELECTRICAL SITE PLAN				TANK 1 - STRUCTURAL PLAN		E-101		TANK 1 - MECHANICAL PLAN		E-102		TANK 1 - ELECTRICAL AND INSTRUMENTATION PLAN				TANK 2 - STRUCTURAL SECTION		E-202		TANK 2 - STRUCTURAL SECTION		E-402		TANK 3 - MECHANICAL PLAN		E-101		STRUCTURAL DETAILS TANKS 1 & 2		E-501		STRUCTURAL DETAILS		E-502		STRUCTURAL DETAILS		E-503		STRUCTURAL DETAILS		E-601	ELECTRICAL	ELECTRICAL DETAILS		E-602		ONE-LINE DIAGRAM		E-603		CABLE AND CONDUIT SCHEDULES		E-701		PAID LEGEND		E-702		PAID LEGEND		E-703		PAID		<p style="text-align: center;">90% Design Review Not for Construction</p>	
SHEET NUMBER	SHEET TITLE	SHEET LIST TABLE																																																																																																																																																																	
G-001	GENERAL	TITLE SHEET																																																																																																																																																																	
G-002		SHEET INDEX																																																																																																																																																																	
G-003		NOTESHEET																																																																																																																																																																	
G-004		STANDARD ABBREVIATIONS																																																																																																																																																																	
G-005	CIVIL	PIPE SCHEDULE																																																																																																																																																																	
G-006		SYMBOL & LINE LEGEND																																																																																																																																																																	
C-011	EXISTING SITE AND ACCESS	SITE ENCLOSURE PLAN																																																																																																																																																																	
C-010		WATER TANKS SITE PLAN																																																																																																																																																																	
C-110		GRADING KEY MAP																																																																																																																																																																	
C-200		WATER TANKS GRADING PLAN																																																																																																																																																																	
C-210		GENERAL PROJECT CROSS SECTION																																																																																																																																																																	
C-211		TANK CROSS SECTION																																																																																																																																																																	
C-212		ENERGY DISSIPATION SECTION																																																																																																																																																																	
C-214		YARD SPACING KEY MAP																																																																																																																																																																	
C-400		WATER LINE PLAN & PROFILE																																																																																																																																																																	
C-410		DRAINLINE PLANS PROFILE																																																																																																																																																																	
C-411		STORM DRAIN CLAVERLY PLANS & PROFILE																																																																																																																																																																	
C-510		VALVE DETAILS																																																																																																																																																																	
C-511		CIVIL DETAILS																																																																																																																																																																	
C-512		DOUGLAS COUNTY DETAILS (OF 3)																																																																																																																																																																	
C-513		DOUGLAS COUNTY DETAILS (OF 3)																																																																																																																																																																	
E-120	SITE ELECTRICAL																																																																																																																																																																		
		ELECTRICAL SITE PLAN																																																																																																																																																																	
		TANK 1 - STRUCTURAL PLAN																																																																																																																																																																	
E-101		TANK 1 - MECHANICAL PLAN																																																																																																																																																																	
E-102		TANK 1 - ELECTRICAL AND INSTRUMENTATION PLAN																																																																																																																																																																	
		TANK 2 - STRUCTURAL SECTION																																																																																																																																																																	
E-202		TANK 2 - STRUCTURAL SECTION																																																																																																																																																																	
E-402		TANK 3 - MECHANICAL PLAN																																																																																																																																																																	
E-101		STRUCTURAL DETAILS TANKS 1 & 2																																																																																																																																																																	
E-501		STRUCTURAL DETAILS																																																																																																																																																																	
E-502		STRUCTURAL DETAILS																																																																																																																																																																	
E-503		STRUCTURAL DETAILS																																																																																																																																																																	
E-601	ELECTRICAL	ELECTRICAL DETAILS																																																																																																																																																																	
E-602		ONE-LINE DIAGRAM																																																																																																																																																																	
E-603		CABLE AND CONDUIT SCHEDULES																																																																																																																																																																	
E-701		PAID LEGEND																																																																																																																																																																	
E-702		PAID LEGEND																																																																																																																																																																	
E-703		PAID																																																																																																																																																																	
		<p style="text-align: center;">DOUGLAS COUNTY, NEVADA</p>																																																																																																																																																																	
		<p style="text-align: center;">MOUNTAIN VIEW WATER TANK REPLACEMENT</p>																																																																																																																																																																	
		<p style="text-align: center;">SHEET INDEX</p>																																																																																																																																																																	
		<p style="text-align: center;">DRAWN BY: J. H. CHECK VERIFIED BY: Scale SHEET NO: 1-1717-1 PRINTED ON: 22x34" print PROJECT NO: 223125 PAGE NO: G-002</p>																																																																																																																																																																	



KELLER

GENERAL ABBREVIATIONS

GENERAL ABBREVIATIONS

QCPD	QUICK COUPLINGS	TPD	*TONS PER DAY
QTY	-QUANTITY	TR	-TIEING RELAY
R	RADIUS	TRANSIT	-TRANSITANCE
RB	RUBBER WALL BASE	TRANSFER	-TRANSFER
RCD	REINFORCED CONCRETE PIPE	TRANSDUCER	-TRANSDUCER
RD	REINFORCER	TS	-TUBE STEEL
RDY	RECYCLE DRUM	TV	-TELEVISION
RD	ROOF DRAIN	TYPE	-TYPE
REF	REFERENCE	U	U.D. Design
REFC	REDUCER	UG	Review
RED	REDUCED	UGP	No. of
REDUCING	REDUCING	UL	Construction
REF	REFERENCE	UN	
REGULATOR	REGULATOR	UNO	
REL	RELAY	UNP	
REL	RELAYED	UP	
RELAYED	RELAYED	UPS	
RELAYED DACE	RELAYED DACE	UPV	
RHD	RIGID GALVANIZED STEEL	UV	
RHD	RIGHT HAND	VCT	
RHD INFILTRATION	RHD INFILTRATION	VDC	
RH	ROOM HOPPING	VDE	
RH	ROOM HOPPING	VEM	
RH	REHOPPING	VEN	
RH	REHOPPING	VENT TO CEILING	
RH	RAILROAD	VTC	
RT	RIGHT	VTR	
RV	RELIEF VALVE	W	
RW	RIGHT OF WAY	W	
RW	RIGHT OF WAY	WEST	
S	SINK	WC	
SECOND	SECOND	WATER COLUMN	
SEA	SAMPLE AIR	WCO	
SCFM	STANDARD CUBIC FEET PER MINUTE	WIRE	
SCFH	SCHEDULE	WIRE RANGE	
SCFD	SCHEDULED FACTOR	WLF	
SCM	SCM	WATER SURFACE	
SD	SDAKE	WPA	
SDR	SDR	WELDED STEEL PIPE	
SDF	SDR	WATERSTOP	
SDFM	SDR	WF	
SDFM1	SDR	WEAVING FABRIC	
SDR	SDR	WFP	
SDR	SDR	WATER WORKING PRESSURE	
SDR	SDR	X	
SDR	SDR	XDR	
SDR	SDR	XP	
SDR	SDR	EXPANSION PROOF	
SEPARATOR	SEPARATOR	Y	
SF	SQUARE FOOT	YARD CLEANOUT	
SHEET	SHEET	TD	
SIMLAR	SIMLAR	YARD DRAIN	
SIMLAR	SIMLAR	YEAR	
SPEC	SPECIFICATION	Z	
SPEC	SPECIFICATION SECTION	POSITION SWITCH	
SPACES	SPACES	#	
SPC	SPC	A	
SPCL	SPICE	AND	
SPQ	SPOLUME	AT	
SPQ	SPOLUME	BY	
SPQ	SPOLUME	DIAMETER	
SPQ	SPOLUME	PIPE	
SPQ	SPOLUME	ANGLE OF DEFLECTION	
STD	STANDARD	T	
STD	STANDARD	1. THERMOSTAT	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB	
STD	STANDARD	1. TEMPORARY	
STD	STANDARD	1. TERMINAL BOX	
STD	STANDARD	1. TOP AND BOTTOM	
STD	STANDARD	1. THERMOCOUPLE	
STD	STANDARD	1. THICKNESS	
STD	STANDARD	1. THROUD	
STD	STANDARD	1. TIEING RELAY	
STD	STANDARD	1. TOTALLY ENCLOSED	
STD	STANDARD	1. TRENCH BOX	
STD	STANDARD	1. TOP OF CURB</td	



5314 20551

GENERAL SHEET NOTES

SYSTEM NUMBER	MATERIAL	PIPE MATERIALS	DETAILS
12	POLYVINYL CHLORIDE [PVC]		ASTM D14, DR 15
13	POLYVINYL CHLORIDE [PVC]		AWWA C900
43	STAINLESS STEEL		ASTM A312; SORI: SEAMLESS; SCHEDULE 10; WEIGHT D
36	STEEL		AWWA C200; S16 THICK, LINED

PIPE MATERIAL SCHEDULE	
ABBREVIATION	SERVICE
W	WATER (POTABLE)
DR	DRAIN
SD	STORM DRAIN
V	VENT

PIPE TESTING SCHEDULE				
ID	SPECIFICATION	TEST MEDIUM	TEST PRESSURE - PSI	LEAKAGE ALLOWANCE
C	33.0112	WATER	150	0

1. FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.
2. FOR ACCEPTABLE PIPE LOADS, SEE PIPING SECTION OF SPECIFICATIONS.
3. FOR PIPE FITTINGS, SEE PIPING SECTION OF SPECIFICATIONS.
4. EXPOSED PIPING SHALL BE PAINTED IN COORDINATE WITH SPECIFIED COLOR, COLOR SHALL BE REFLECTIVE BY OWNER.
5. EXPOSED PIPING SHALL BE INSULATED WHERE SHOWN SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
6. DUCTILE IRON PIPE, POLYETHYLENE TUBE REQUIRED WHERE BURIED.
7. ANY DEFECTS FROM THE PIPING MATERIALS OR FIELD TEST PROCEDURES MUST BE NOTED IN THE SPECIFICATIONS OR ON THE DRAWINGS.

Construction
Notes for
Architects

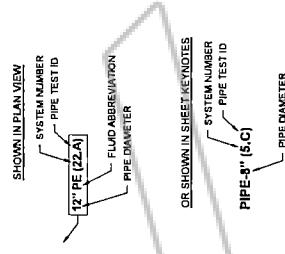
DUGLAS
COUNTY,
NEVADA

PIPE SCHEDULE

G-006

TYPICAL PIPE DESIGNATION

NOTE: INSTALL ALL PIPES WHERE THE FOLLOWING DESIGNATION ARE INDICATED.

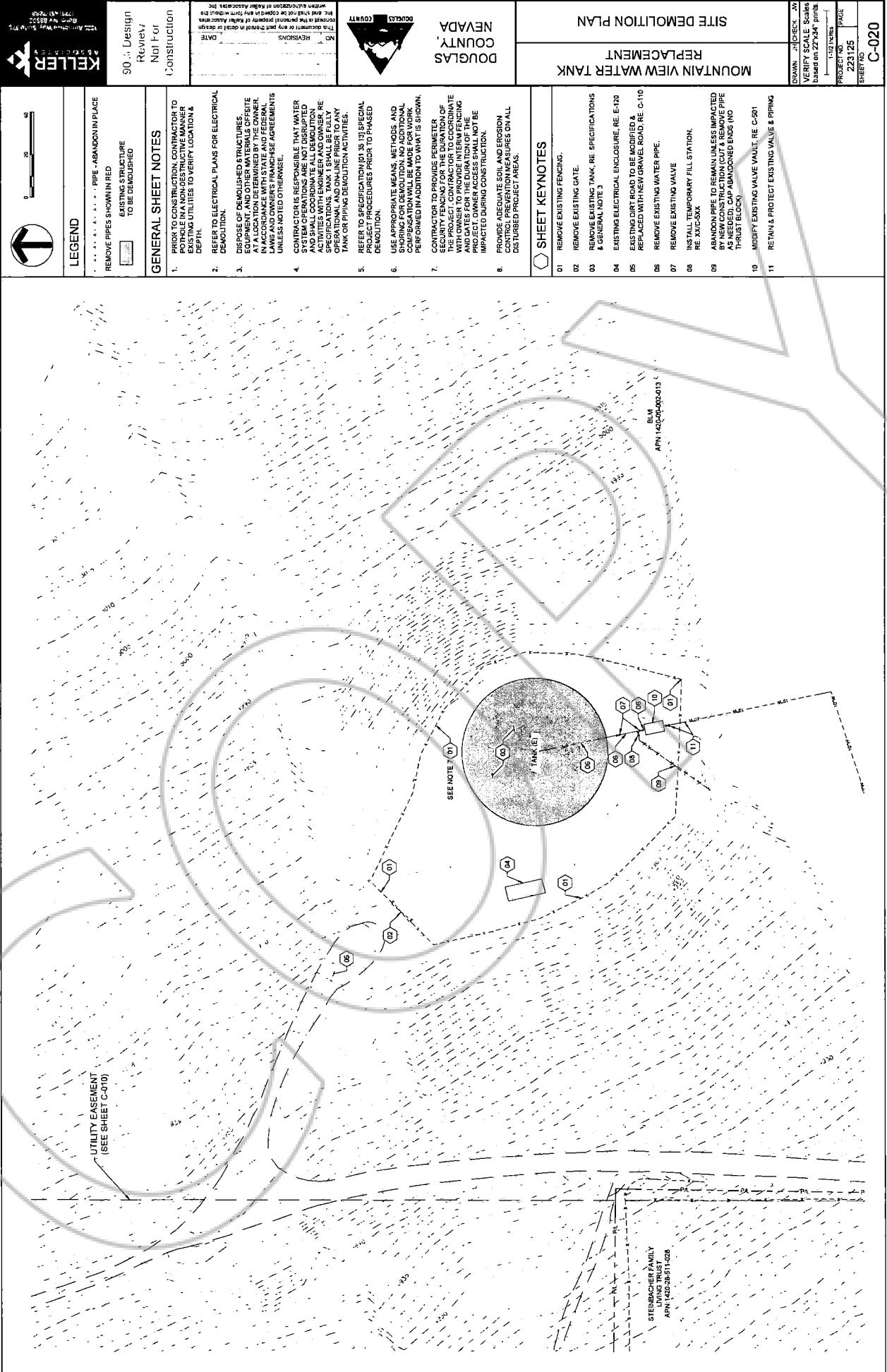


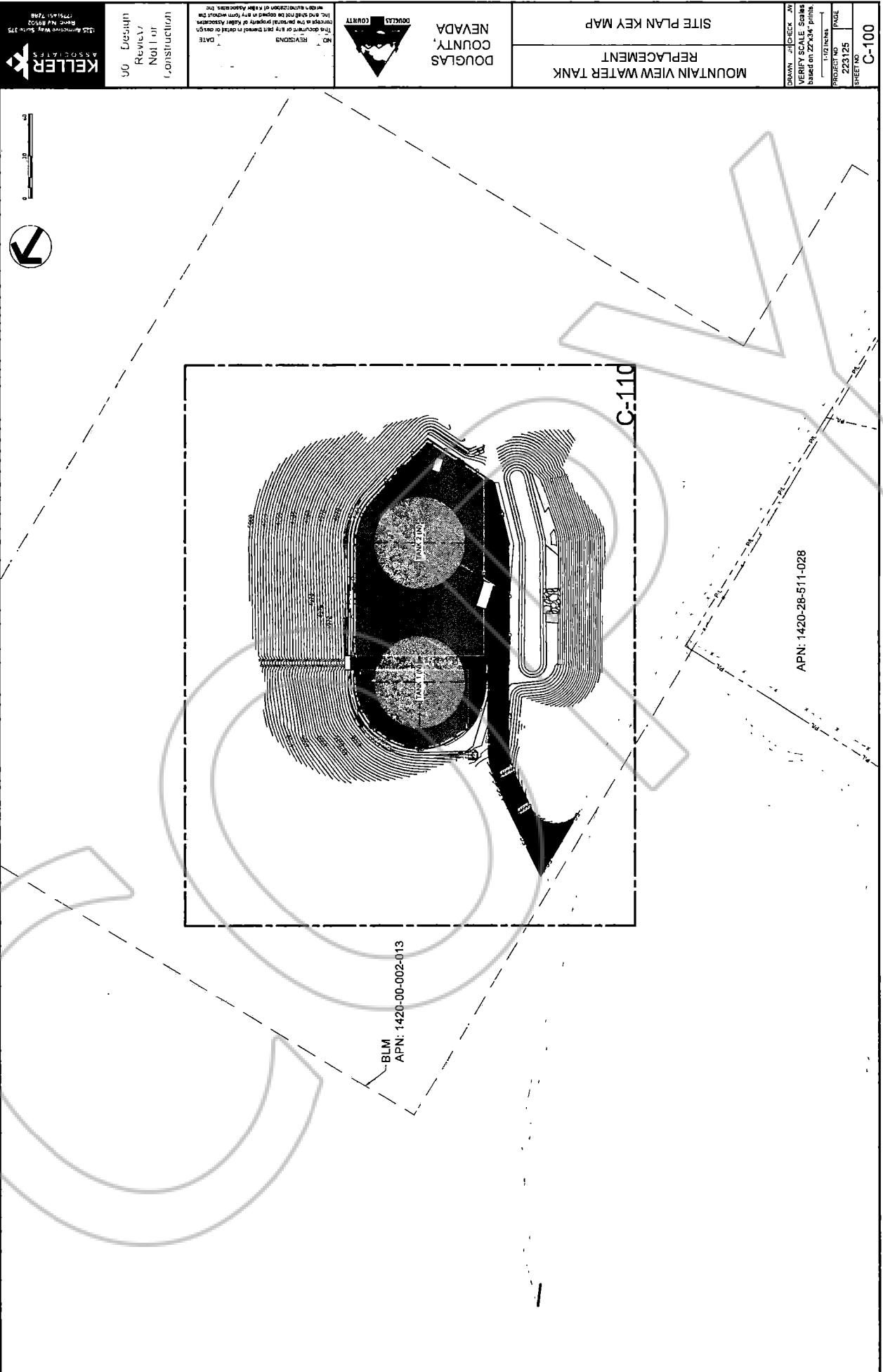
OR SHOWN IN SHEET KEYNOTES

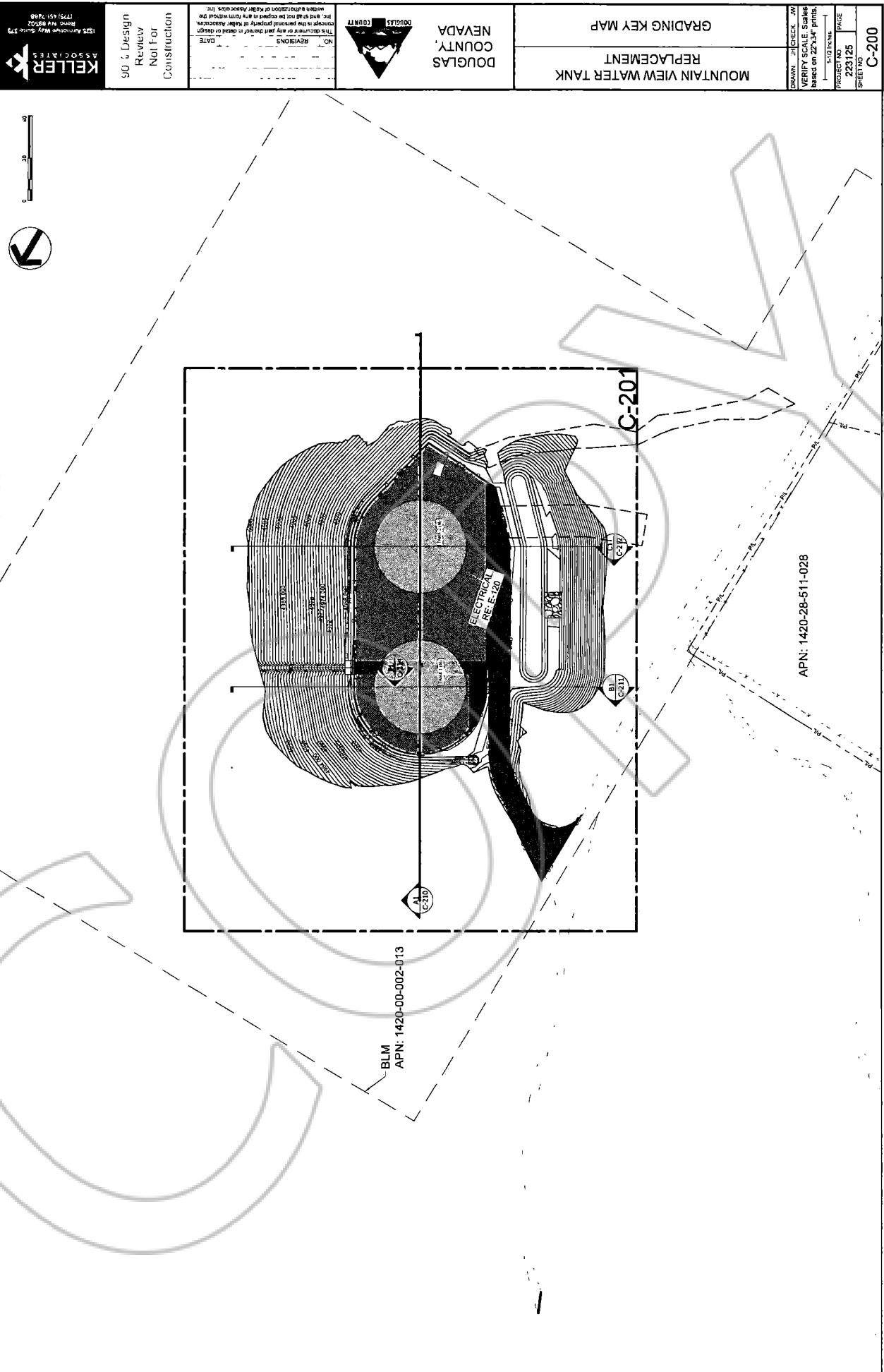
PIPE TEST ID

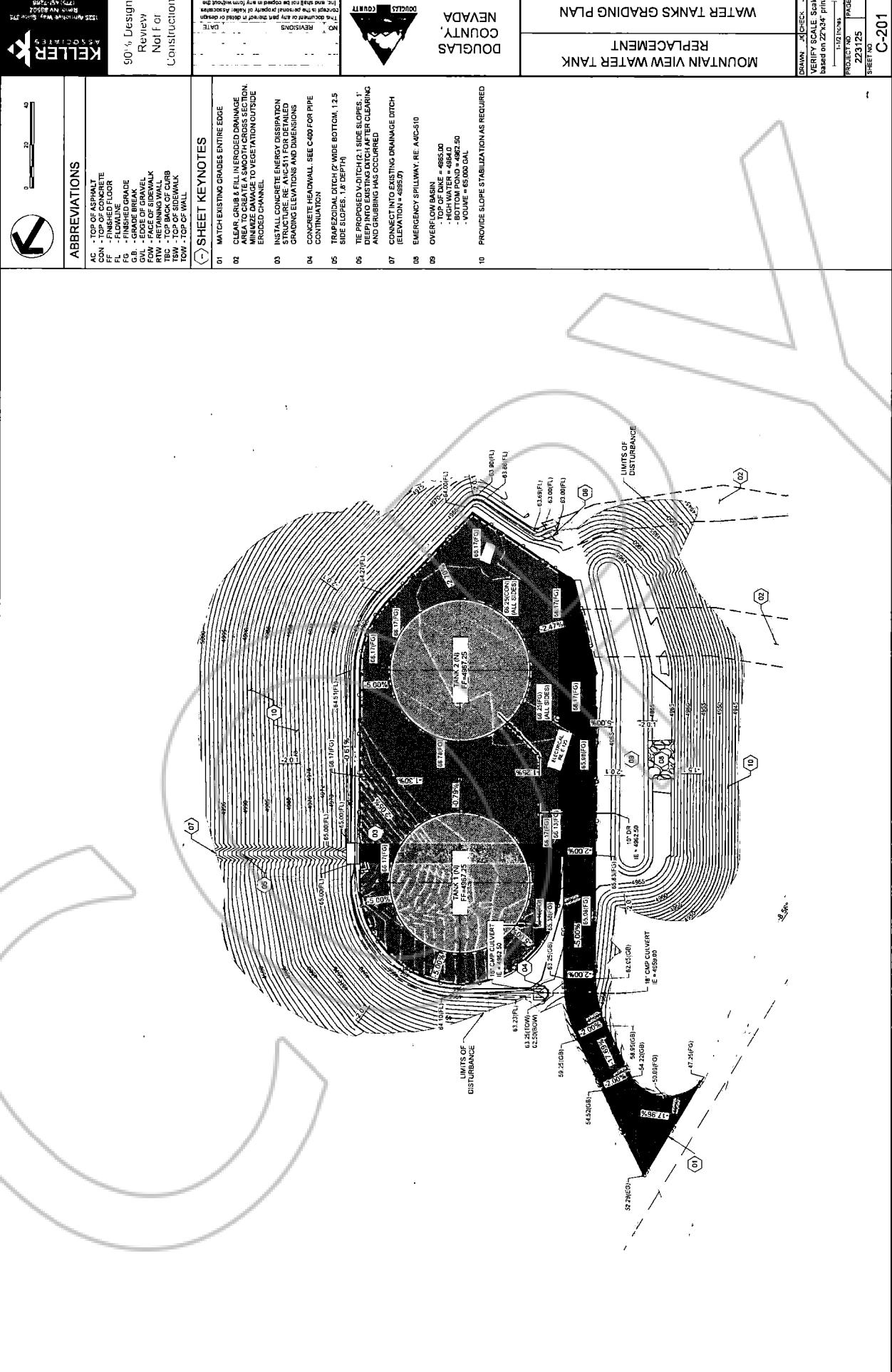
PIPELINE (5.C)

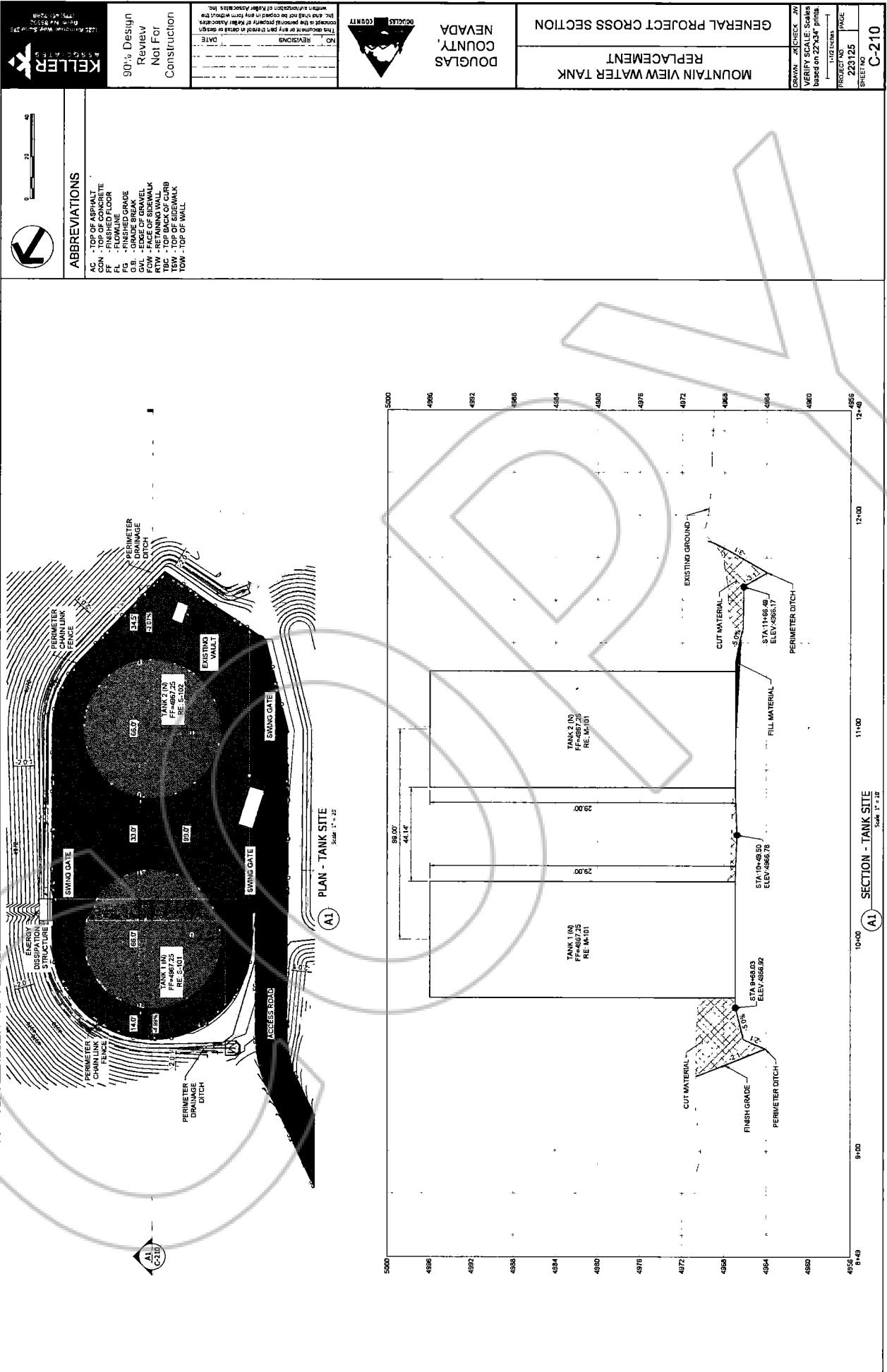
PIPE DIAMETER













90% Design
Review
Not For
Construction

90% De
Revie
Not Fi
Construc

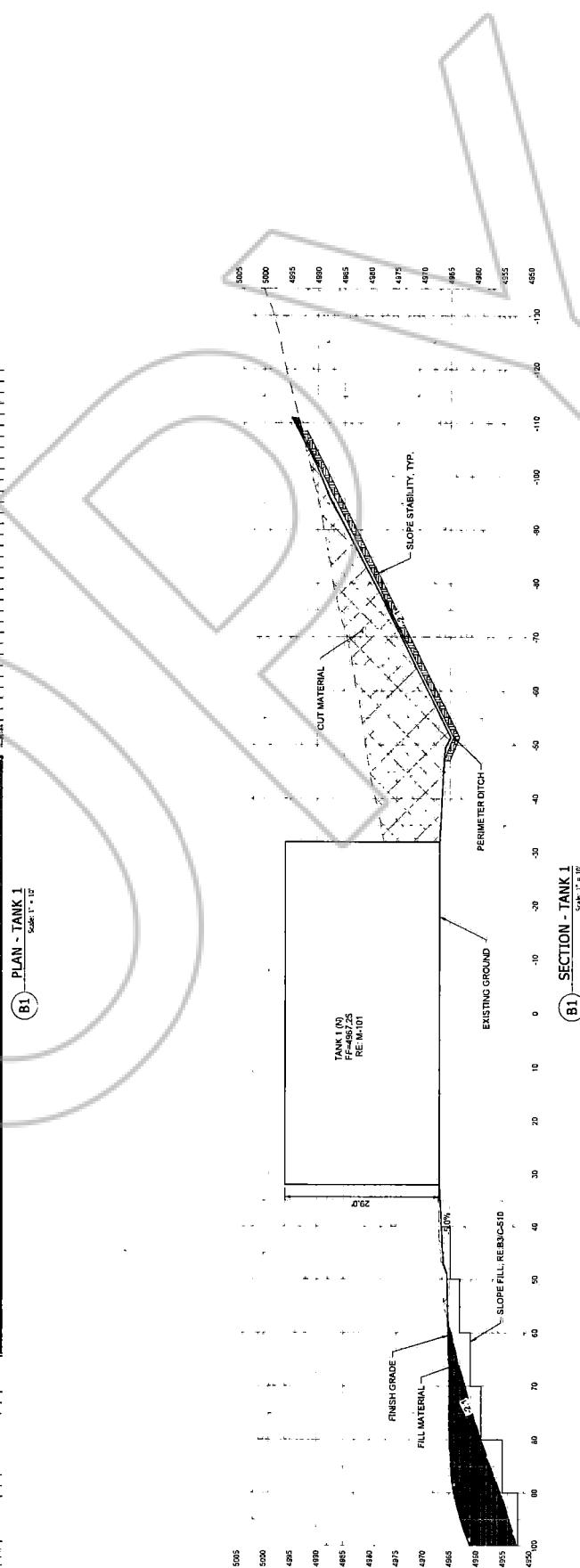
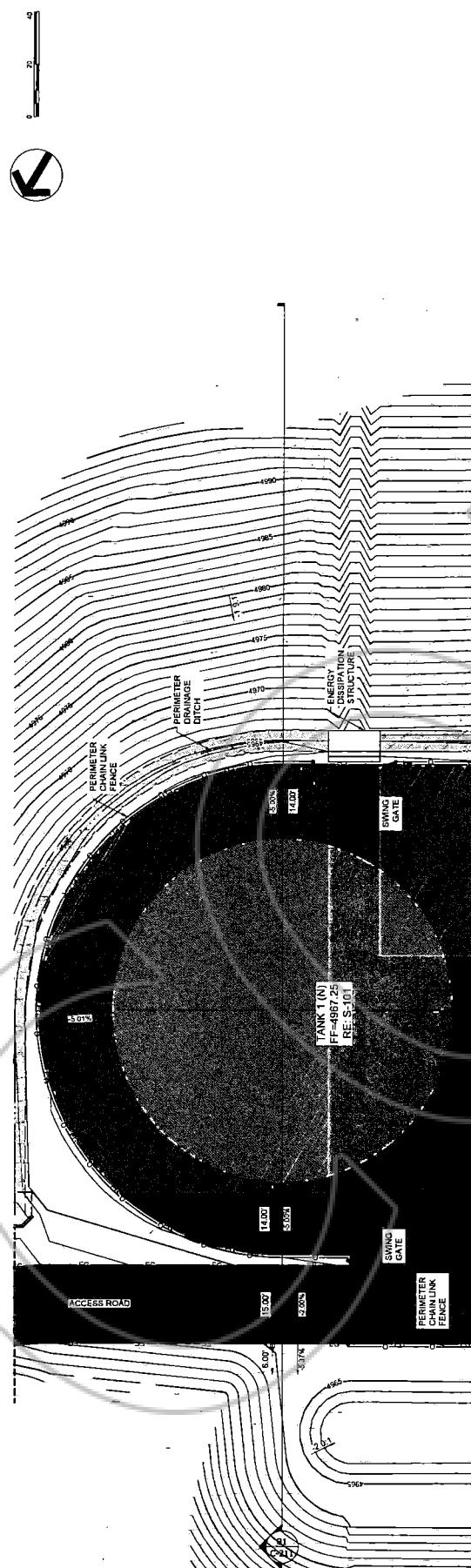
սույն
թու

DOUGLAS COUNTY, NEVADA

TANK 1 CROSS SECTION

MOUNTAIN VIEW WATER TANK

JW JK CHECK JW
JEWELRY SCALE. Scales
based on 22" x 34" prints.
1-1/2 inches
DIRECT NO. 223125
PAGE
FEET NO. C-211





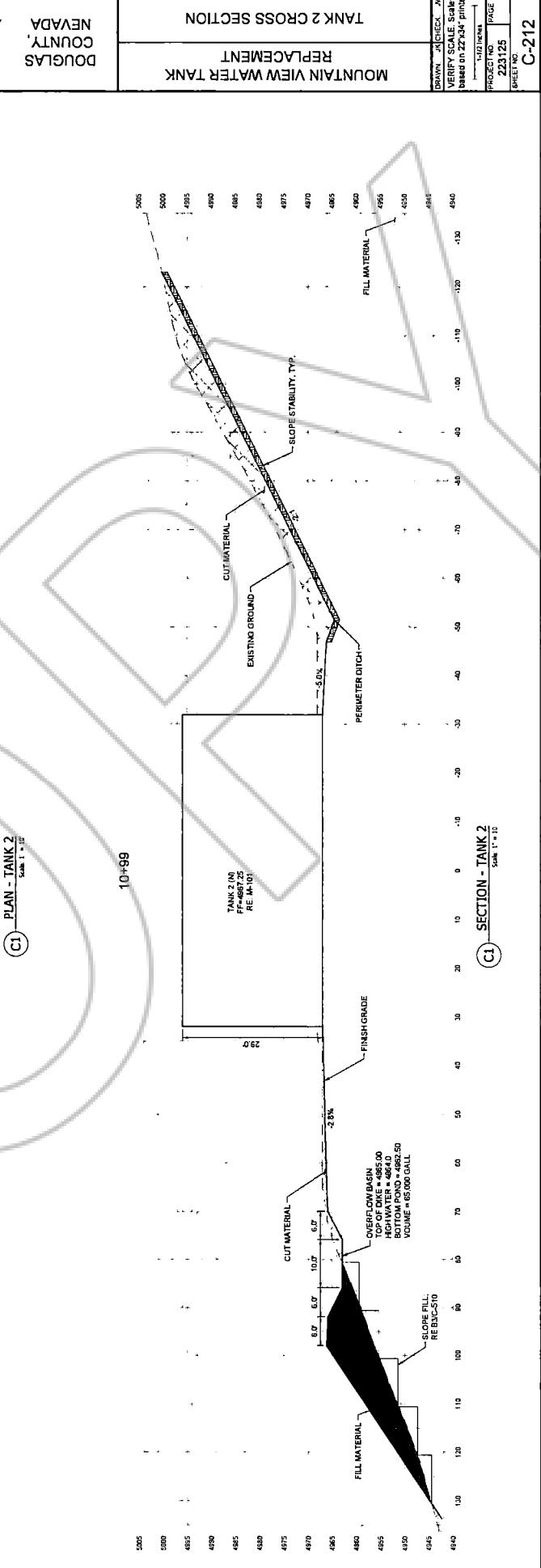
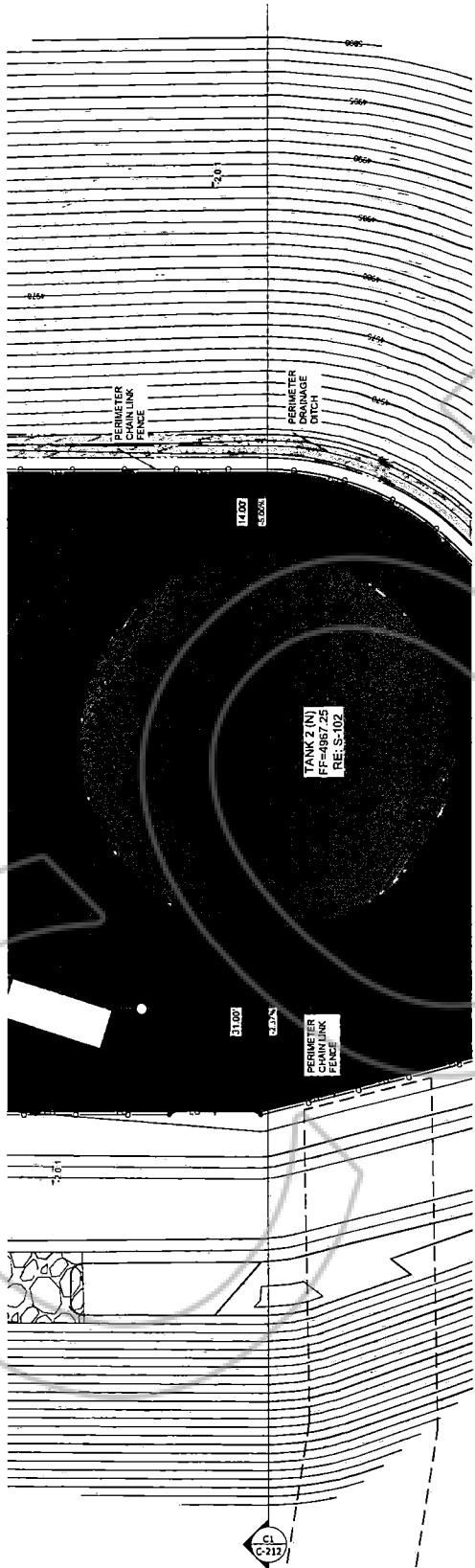
Design
Review
Not Lui
Construction

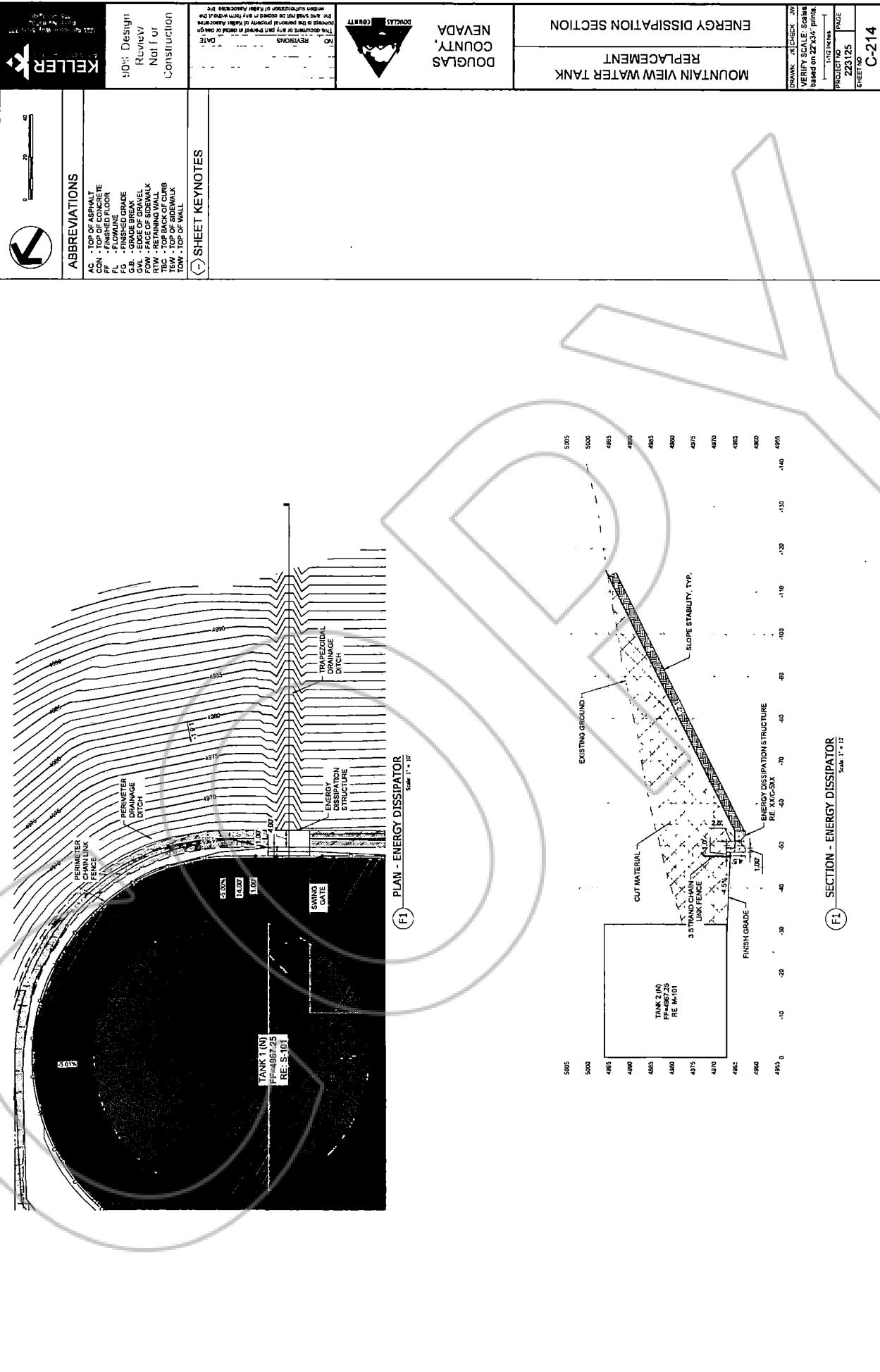
DOUGLAS COUNTY, NEVADA
DESIGNS
CONTRACTS
The design and construction of facilities, structures, sites, etc., shall be governed by the applicable codes and standards of the State of Nevada and the City of Las Vegas. The design and construction of facilities, structures, sites, etc., shall be governed by the applicable codes and standards of the State of Nevada and the City of Las Vegas.

DOUGLAS COUNTY, NEVADA
DESIGNS
CONTRACTS

MOUNTAIN VIEW WATER TANK
REPLACEMENT
TANK 2 CROSS SECTION

DRAWN BY: J.C. CHECK
VERIFIED SCALE: 1:100
BASED ON 22x34 Prints
C-111
PAGE NO: 223125
SHEET NO: C-212







22568 AN 0088
SUS BURG KAPPAEANUW S2:

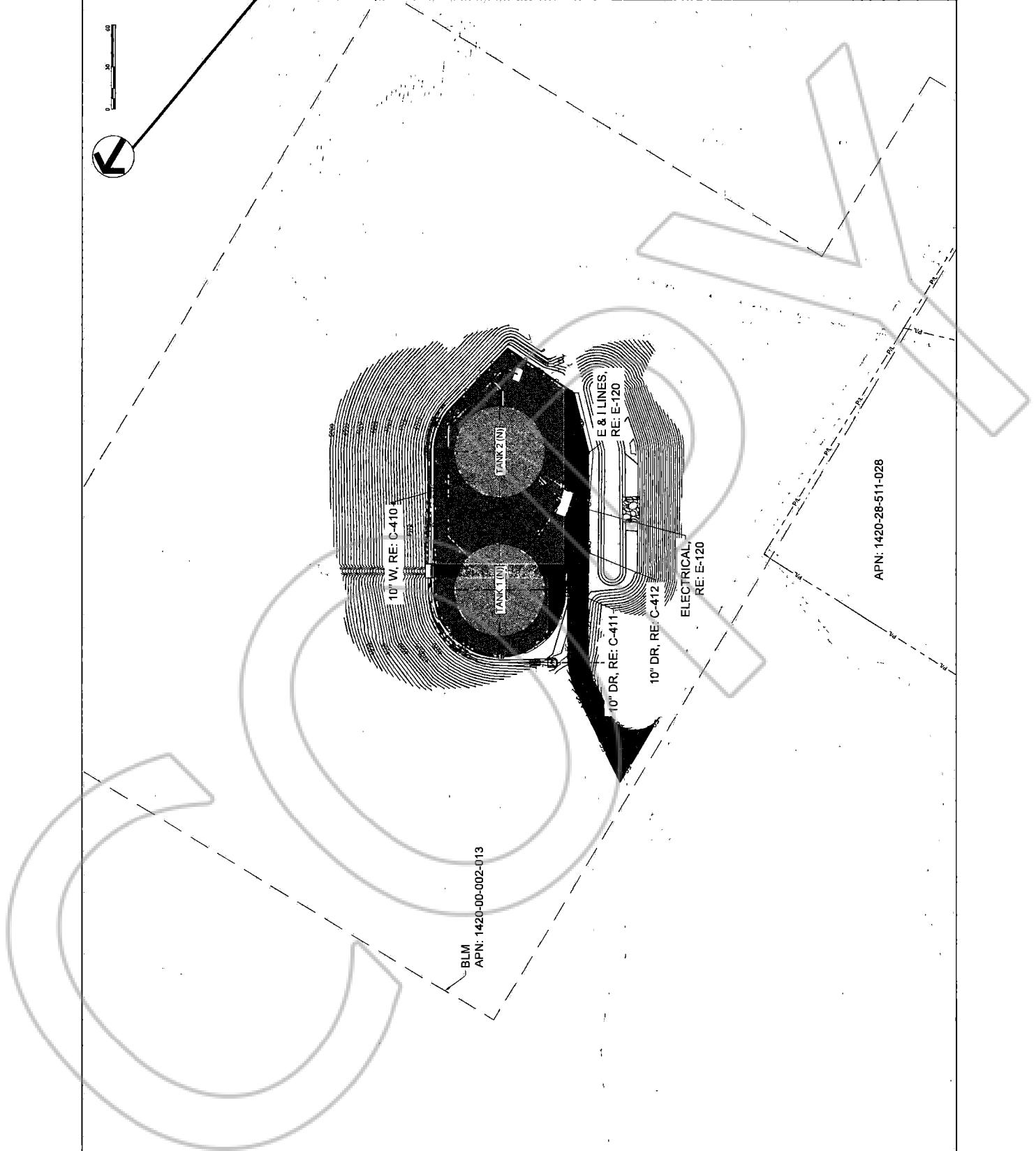
90% Design
Review
Not For
Construction

REASON		DATE
The document or my tool box is used to obtain the information or the product of another person's work and shall not be copied in any form, without the written permission of the preparer.		

Douglas County, Nevada

YARD PIPING KEY MAP

VERIFY SCALE: Scale
based on 22x34" print
1-1/2 Inches PAGE
PROJECT NO. 223125
EET NO. C-400





GENERAL SHEET NOTES

PRIOR TO CONSTRUCTION CONTRACT

THE
CONSTRUCTION
OF
REVIEW

DA
AVISONS
at or any port thereon in detail of des-
tination
tionization of lesser accessories that
will not be copied in any form without
prior written permission of the manufacturer.

The logo consists of a black triangle pointing downwards. Inside the triangle, the word "DOUGLAS" is written vertically along the left side, and "COUNT" is written vertically along the right side. The entire logo is set against a white background.

DOUGLAS
COUNTY,
NEVADA

116

WATER LINE PLAN & PROFILE

VERIFIED SCALE

C-410
SHEET NO. 1
PAGE 1
PROJECT NO. 223125
1-1/2 INCHES

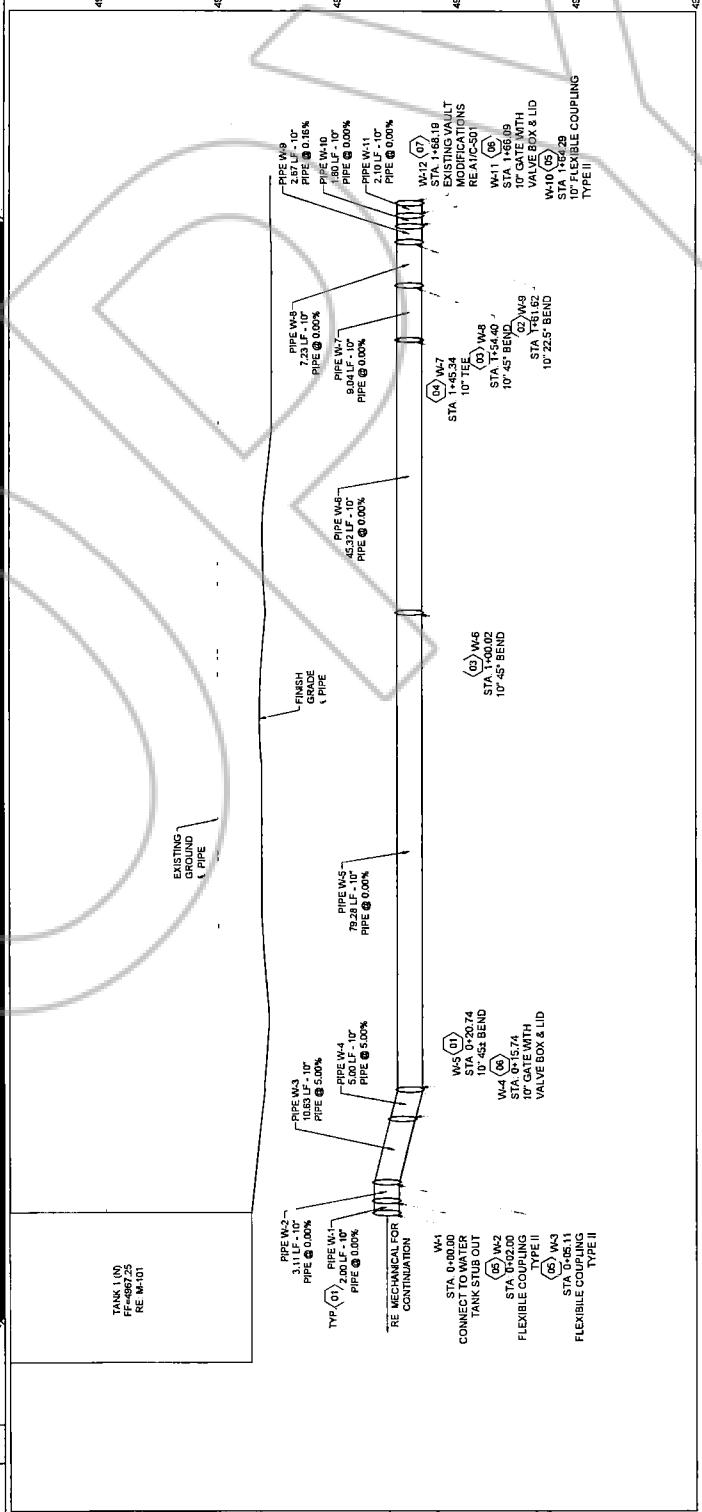
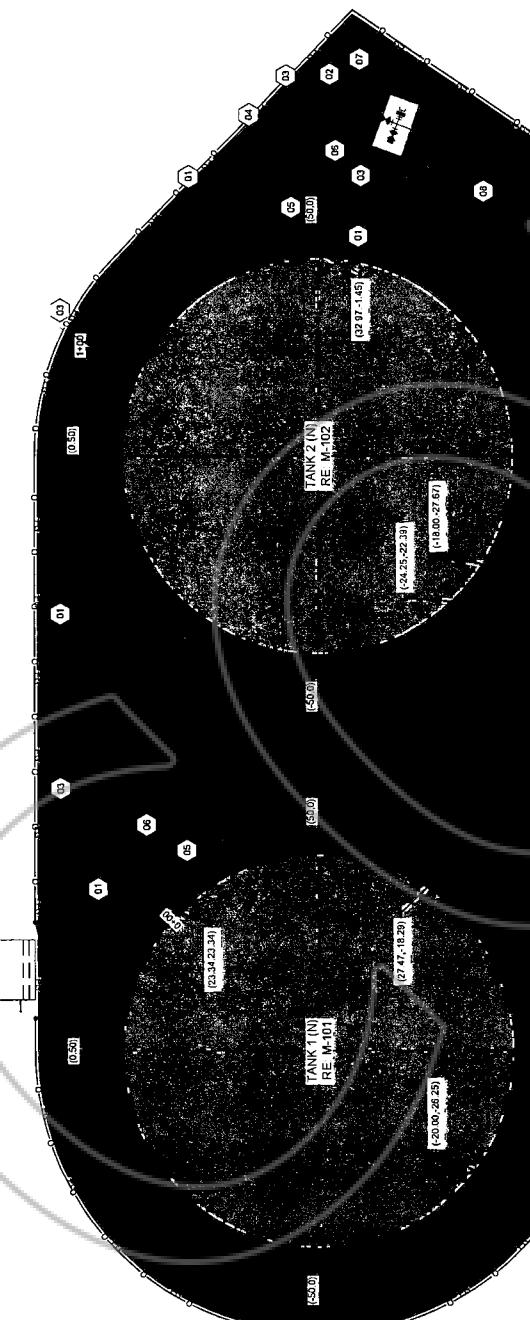
21

A vertical graphic scale with two parallel lines. The left line has tick marks at 0, 1, 2, 5, 10, and 20. The right line has tick marks at 0, 1, 2, 5, 10, and 20. The word "RIZ" is written vertically next to the left line, and "RIT" is written vertically next to the right line.

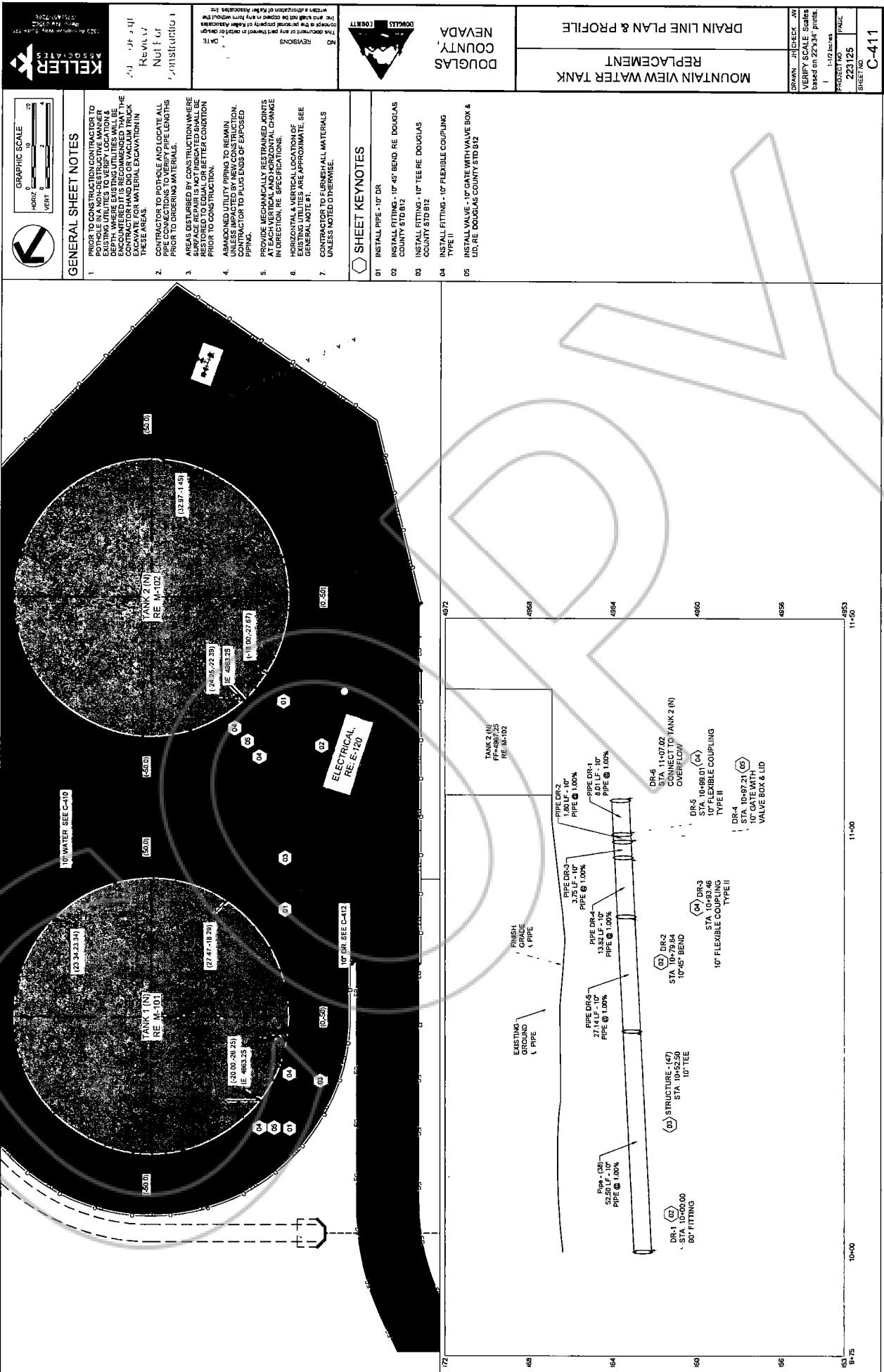
GENERAL SHEET NOTES

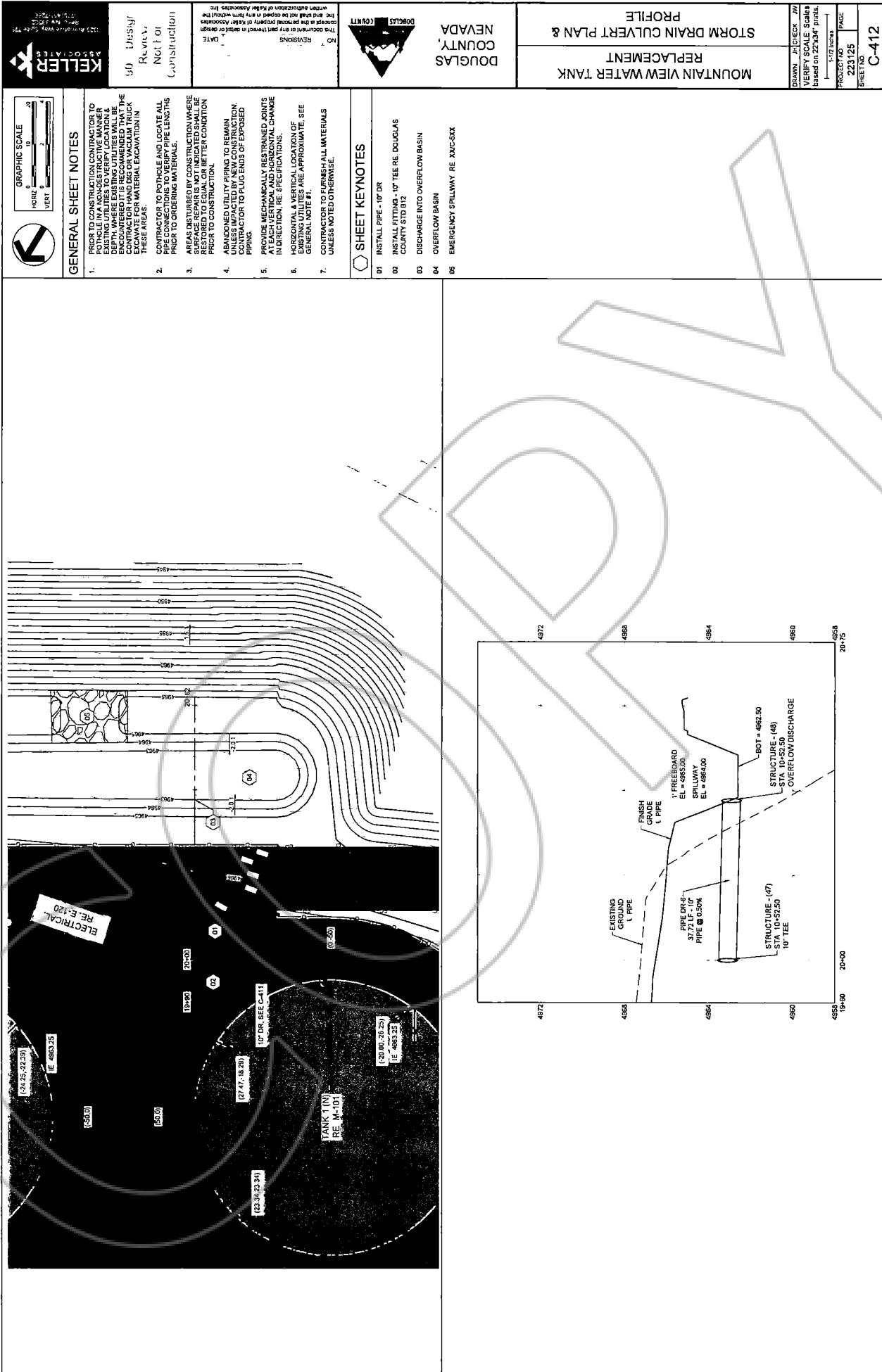
1. PRIOR TO CONSTRUCTION INITIATED, TO PROVIDE A PLAN FOR THE EXCAVATION & RELOCATING EXISTING UTILITIES. THIS PLAN WILL BE APPROVED BY THE CONTRACTOR. WHERE EXISTING UTILITIES WILL BE DISLOCATED, THE CONTRACTOR IS REQUIRED TO NOTIFY THE OWNER OF THE EXCAVATION AND TO EXCAVATE TO A MAXIMUM DEPTH OF 12' IN THESE AREAS.
 2. CONTRACTOR TO BOTH PIPE AND INDICATE ALL PIPE CONNECTIONS TO VERIFY PIPE LENGTHS PRIOR TO ORDERING MATERIALS.
 3. AREAS DISTURBED IN CONSTRUCTION WHERE SURFACE REPAIR IS NOT INDICATED SHALL BE RESTORED TO EQUAL OR BETTER CONDITION CONSIDERED TO CONSTRUCTION.
 4. ABANDONED UTILITY PIPING TO REMAIN UNLESS IMPACTED BY NEW CONSTRUCTION. CONTRACTOR TO PLUG ENDS OF EXPOSED PIPING.
 5. PROVIDE MECHANICALLY RESTRAINED JOINTS AT EACH VERTICAL AND HORIZONTAL CHANGE IN DIRECTION. RE-SPECIFICATIONS.
 6. HORIZONTAL & VERTICAL LOCATION OF EXISTING UTILITIES ARE APPROPRIATE. SEE GENERAL NOTE #1.
 7. CONTRACTOR TO FURNISH ALL MATERIALS UNLESS NOTED OTHERWISE.

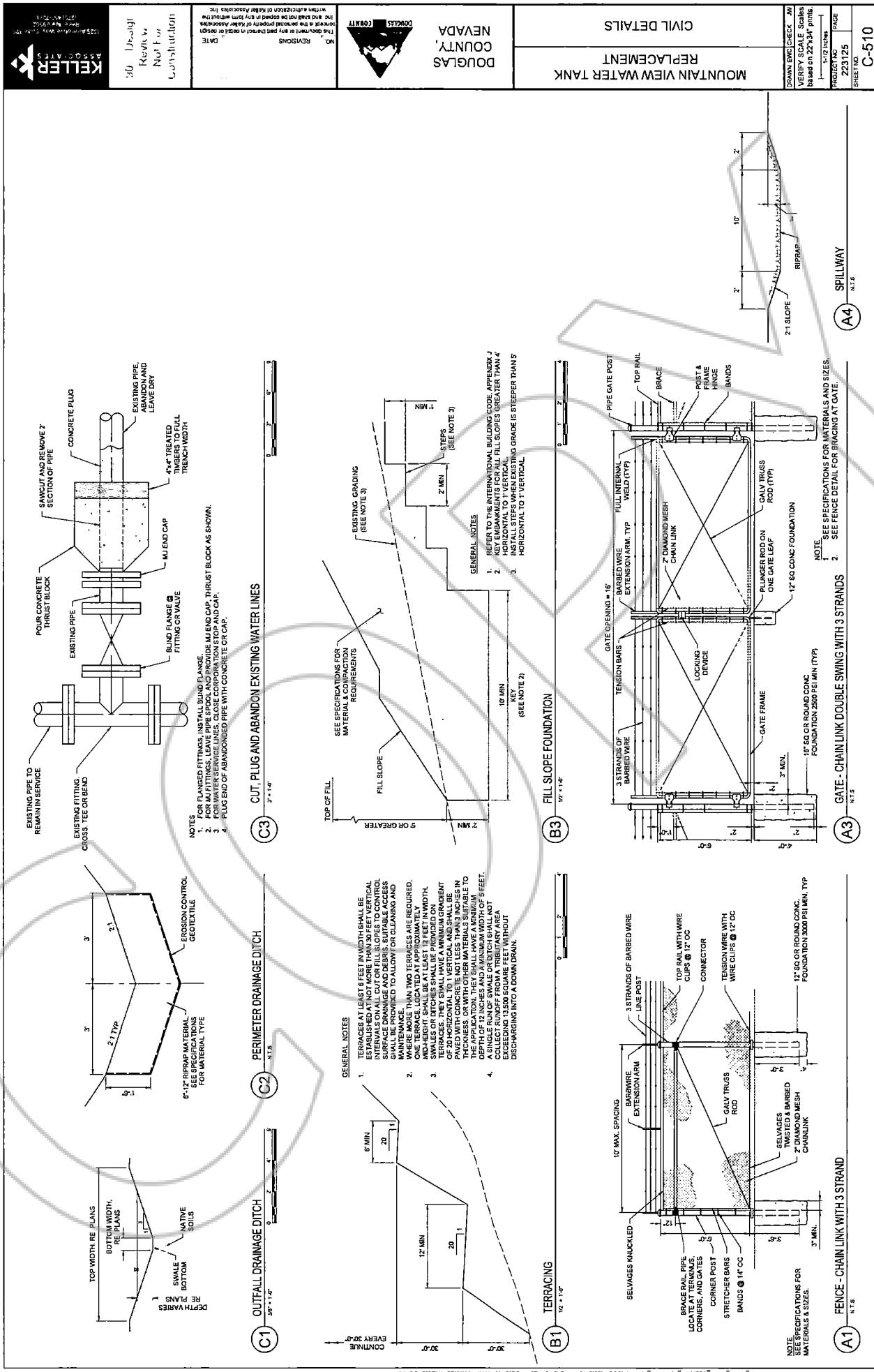
SHEET KEYNOTES



PRINTED 7/1/2024 2:25 PM LAST SAVED 7/1/2024 2:25 PM C:\USERS\DELL\DESKTOP\PLANS-1D\CHILTON.DWS DESIGN CADS COUNTRY MINT VEW TANK









Design
Not For
Construction

No REVISIONS
DATE



DOUGLAS
COUNTY,
NEVADA

MOUNTAIN VIEW WATER TANK
REPLACEMENT

DOUGLAS COUNTY DETAILS (1 OF 3)

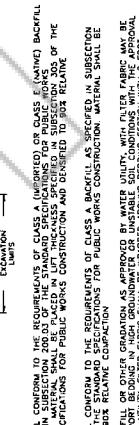
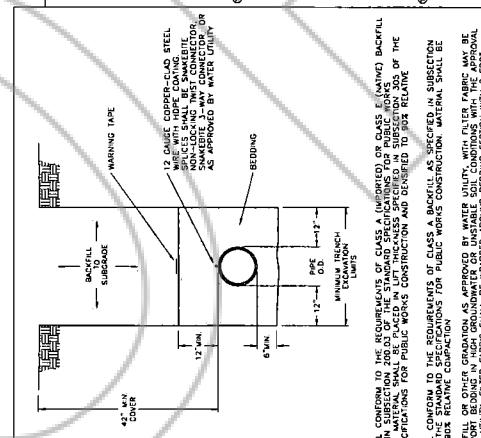
DRAWN BY: [Signature]
VERIFY SCALE: Scale
Date: 07/2017
PROJECT: MOUNTAIN VIEW WATER TANK
SHEET NO: C-511
PAGE: 1 OF 3

- BARTH, INC.
1. WATER METER (MAIN WATER SIZE FOR PEAK AND MINIMUM DEMAND, BOTTLED WATER IF REDUCED BY
2. DIA. 10 INCHES) DIA. 10 INCHES, 100 PSI MAXIMUM PRESSURE, AS
3. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL. CONTRACTOR TO PROVIDE AND
4. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
5. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
6. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
7. TEL. COMM. PROJECTS 3500 psi maximum pressure rating.
8. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
9. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
10. PROJECT CONTRACTOR SHALL PLACE LOAD ROAD, WATERPROOF WALL EXTERIOR WITH 2 COATS OF
11. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
12. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
13. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
14. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
15. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
16. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
17. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.

NOTES:

1. PRESSURE UNITS REQUIRED BASED ON INSTALLATION CONSULT WITH UTILITY TO DETERMINE IF A BYPASS
2. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
3. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.
4. APPROVED BY WATER UTILITY, CONTRACTOR TO PROVIDE AND INSTALL.

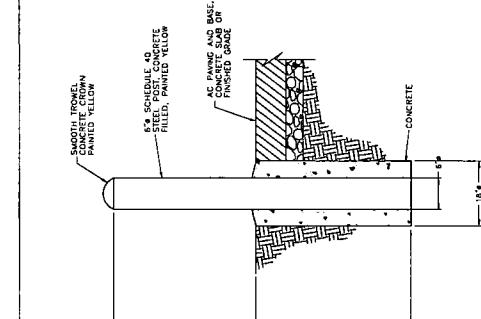
PAGE 2 OF 2
SECTION: DOUGLAS COUNTY
DATE: JULY 2017
SHEET: B06



NOTES:

1. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E (IMPORTED) OR CLASS E (NATIVE) BACKFILL
2. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E (IMPORTED) OR CLASS E (NATIVE) BACKFILL
3. BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS A (IMPORTED) AS SPECIFIED IN SUBSECTION
4. NOT USED
5. EROSION CONTROL SLOPES MAY BE NECESSARY, ALL EXCAVATIONS SHALL CONFORM TO THE MOST
6. PLACE WARNING TAPE 1 FOOT ABOVE WATER AND RECAVELED WATER PIPE
7. NOT USED

PAGE 1 OF 1
SECTION: DOUGLAS COUNTY
DATE: JULY 2017
SHEET: B06



PAGE 1 OF 1
SECTION: DOUGLAS COUNTY
DATE: JULY 2017
SHEET: B06



90 Design
Review,
Not for
Construction

NO. REVISI0NS DATE
0 07/2017 2017

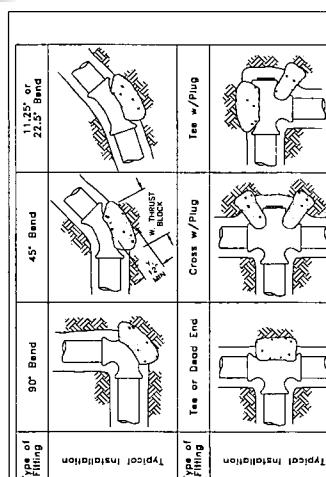
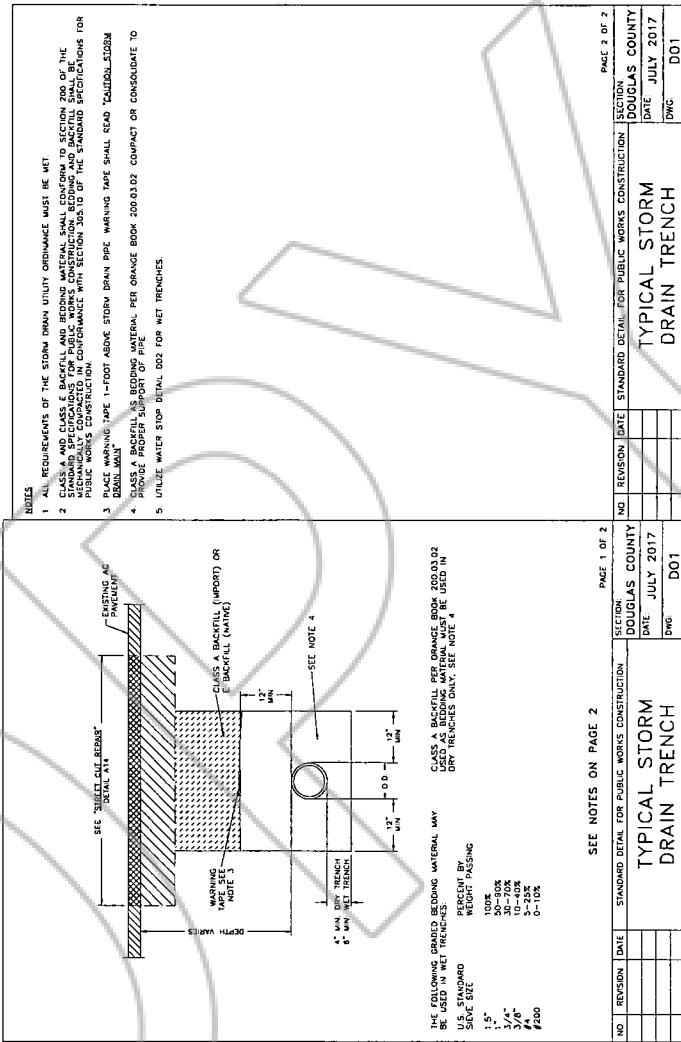
DOUGLAS COUNTY
NEVADA

DOUGLAS COUNTY
NEVADA

DOUGLAS COUNTY DETAILS (3 OF 3)

MOUNTAIN VIEW WATER TANK
REPLACEMENT

DRAWN BY: SCALES: 1:100 DRAWING NO.: C-513
CHECKED BY: DATE: JULY 2017 SHEET NO: D01
APPROVED BY: DATE: JULY 2017



NOTES:	
1. CONNECT TO THRU BLOCKS SHALL CONFORM TO SECTION 37.10 OF THE STANDARD SPECIFICATIONS.	
2. THRU BLOCKS SHALL BE PLACED ON A LEVEL SURFACE WITH A MINIMUM OF 400 PSF AT THE JOINTS AND SURFACE OF THRU BLOCKS SHALL BE KEPT CLEAN OF CONCRETE, DIRT, AND OTHER FOREIGN MATERIALS.	
3. THRU BLOCKS SHALL BE PLACED ON A LEVEL SURFACE WITH A MINIMUM OF 400 PSF BEARING CAPACITY.	
4. THRU BLOCKS SHALL BE PLACED ON A LEVEL SURFACE WITH A MINIMUM OF 400 PSF BEARING CAPACITY.	
5. ALL JOINTS SHALL BE TOLUOLATED (MARGIN POLYTHENE).	

NOTES:	
1. CONNECT TO THRU BLOCKS SHALL CONFORM TO SECTION 37.10 OF THE STANDARD SPECIFICATIONS.	
2. THRU BLOCKS SHALL BE PLACED ON A LEVEL SURFACE WITH A MINIMUM OF 400 PSF AT THE JOINTS AND SURFACE OF THRU BLOCKS SHALL BE KEPT CLEAN OF CONCRETE, DIRT, AND OTHER FOREIGN MATERIALS.	
3. THRU BLOCKS SHALL BE PLACED ON A LEVEL SURFACE WITH A MINIMUM OF 400 PSF BEARING CAPACITY.	
4. THRU BLOCKS SHALL BE PLACED ON A LEVEL SURFACE WITH A MINIMUM OF 400 PSF BEARING CAPACITY.	
5. ALL JOINTS SHALL BE TOLUOLATED (MARGIN POLYTHENE).	

NOTES:	
1. SEE NOTES ON PAGE 2	
2. STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	
SECTION: DOUGLAS COUNTY	
DATE: JULY 2017	
TYPE: TYPICAL STORM DRAIN TRENCH	
Dwg: D01	

NOTES:	
1. SEE NOTES ON PAGE 2	
2. STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	
SECTION: DOUGLAS COUNTY	
DATE: JULY 2017	
TYPE: TYPICAL STORM DRAIN TRENCH	
Dwg: D01	



GENERAL SHEET NOTES

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE AND ANY OTHER STATE OR LOCAL CODE.
2. CABLE AND CONDUIT TRUNKS ARE TO BE AUTOMATICALLY SHOWN ON THE DRAWING. THIS REQUIREMENT SHALL BE ENFORCED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE OWNER.
3. ALL OUTDOOR EQUIPMENT AND WIRING SHALL BE WEATHERPROOF.
4. ALL UNDERGROUND CABLE RUNS SHALL BE INSTALLED IN CONDUIT.
5. UNDERGROUND ELECTRICAL CONDUITS SHALL BE REARGED WITH RED FLASIC MARKING TAPE IN TATTOED IN FRENCH ONE FOOT BELOW SURFACE. RE ESD.

10' 0"

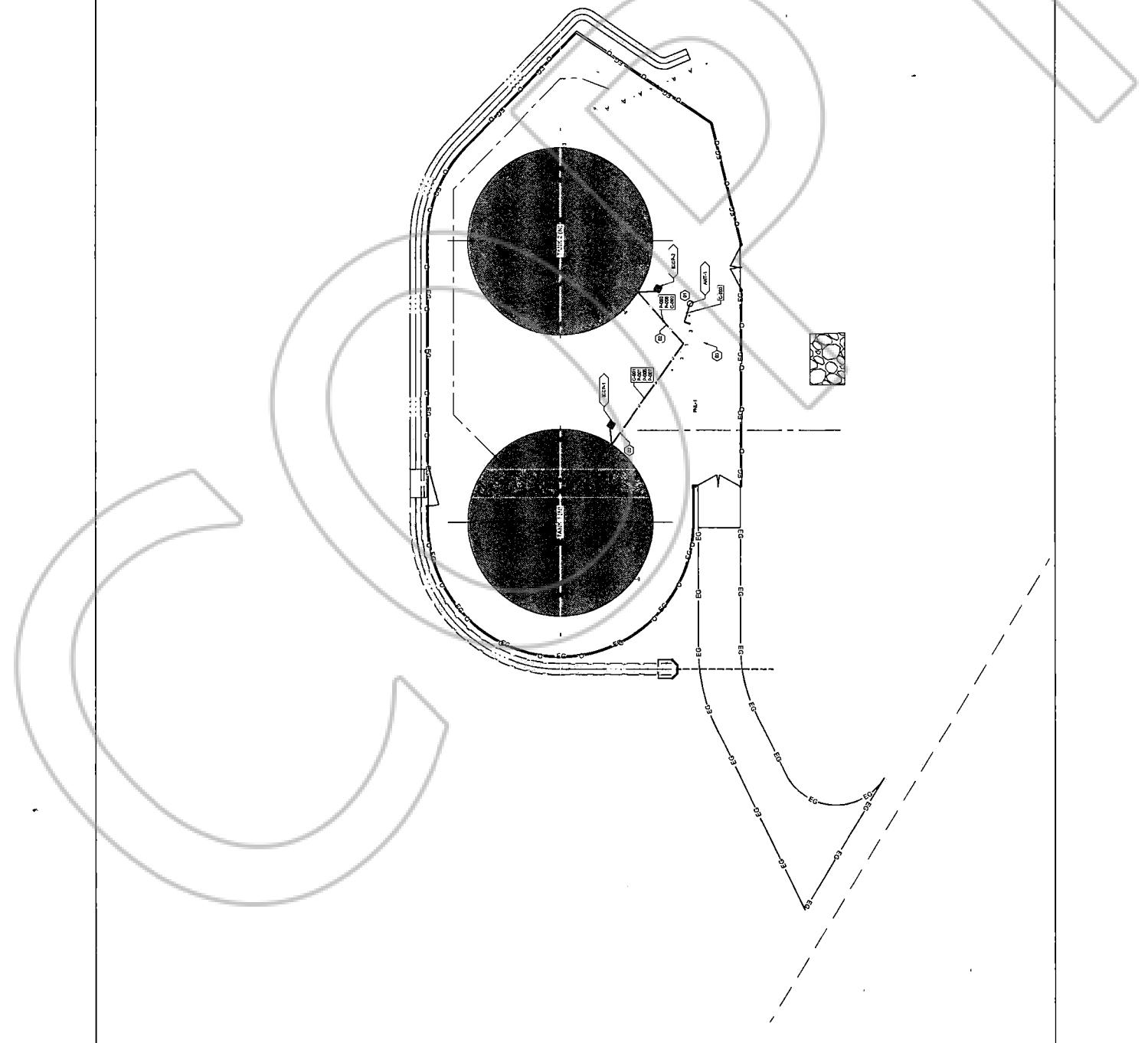
50 ✓ Design
Review
Not For
ConstructionNEVADA
COUNTY
DOUGLAS
NO. DEVS05
DATEELECTRICAL SITE PLAN
MOUNTAIN VIEW WATER TANK
REPLACEMENTDRAWN - CHECK
VERIF. SCALE: Scales
based on 22x34" prints.
1/12 inches
PROJECT NO. 223125
PAGE 1
SHEET NO. E-120

SHEET KEYNOTES

- 01 RELOCATE EXISTING ANTENNA TO INDEPENDENT TOWER.
02 INSTALL POWER AND CONTROL CONDUIT TO TANK 1 AND TANK 2.
03 EXISTING PANEL SHIELD.

EQUIPMENT KEYNOTES

- ANT-1 RELOCATED ANTENNA
ICCP-1 TANK 1 IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM
ICCP-2 TANK 2 IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM
PNU-1 EXISTING PANEL
-SEC-1 INVERTER AND CHARGE CONTROLLER
-SEC-2 BATTERIES
-SEC-3 SCADA CONTROLS





GENERAL SHEET NOTES

- SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS, TANK
DRAWINGS AND CONSTRUCTION DETAILS.**

**TANK CONTRACTOR TO PROVIDE FULL TANK FOOTING AND
FOUNDATION DESIGN, AND SHOP DRAWINGS PRIOR TO
CONSTRUCTION**

**ALL PIPING ABOVE GRADE TO BE STAINLESS STEEL 304
SHEET 11 OF 11 FOR OVERALL LAYOUT AND STRUCTURE**

90% Design
Review
Not For
Construction

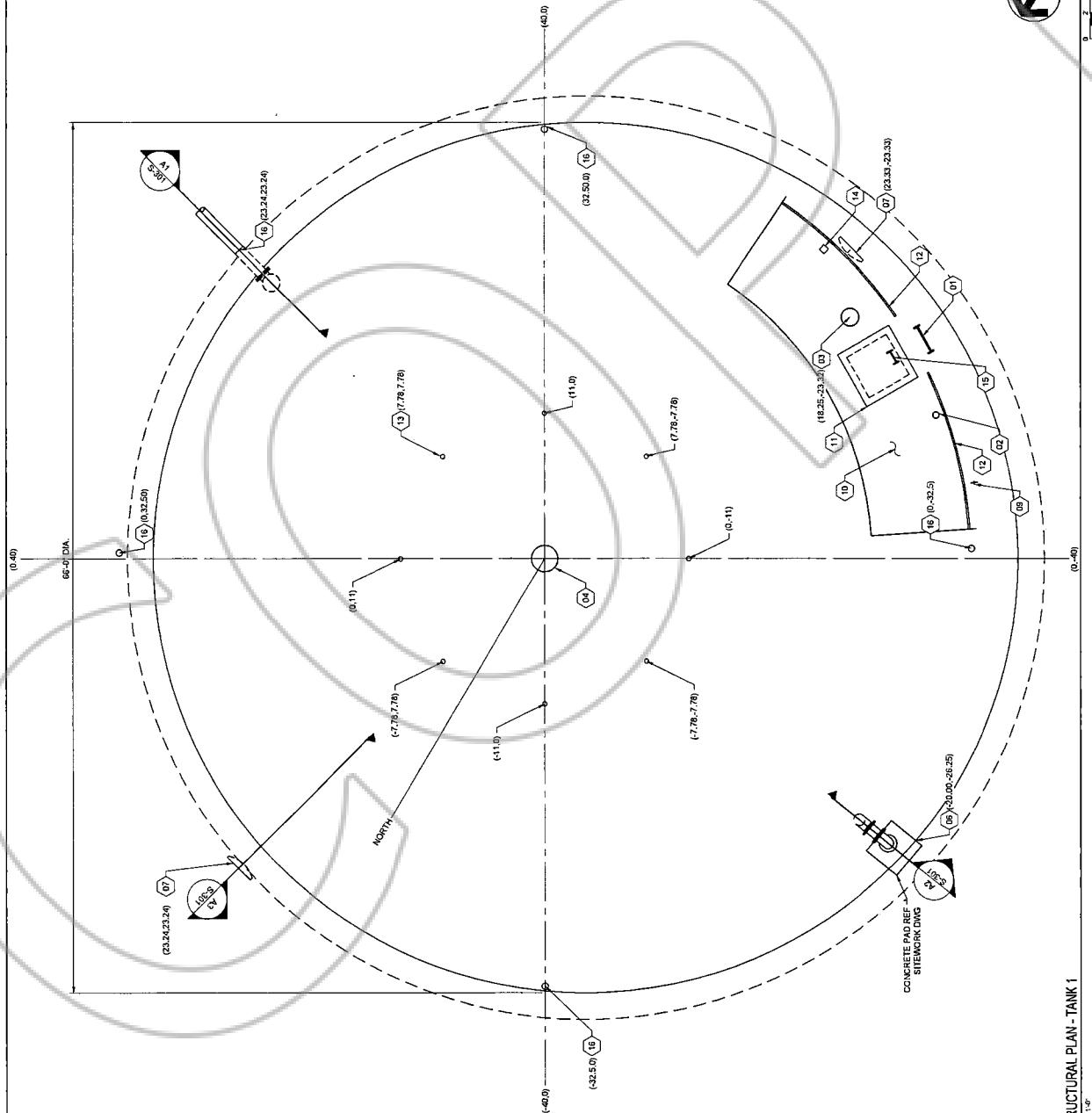
90% Design Review Not For Construction	<p>REVISIONS</p> <p>The document is not intended to replace or supersede any existing design or specification. It is intended to supplement or amend them.</p> <p>DATE</p> <p>NO. REVISIONS</p> <p>DATE</p>	<p>Document revision is not intended to affect any existing design or specification. It is intended to supplement or amend them.</p> <p>DATE</p> <p>NO. REVISIONS</p> <p>DATE</p>
---	--	---

DOUGLAS
COUNTY
NEVADA

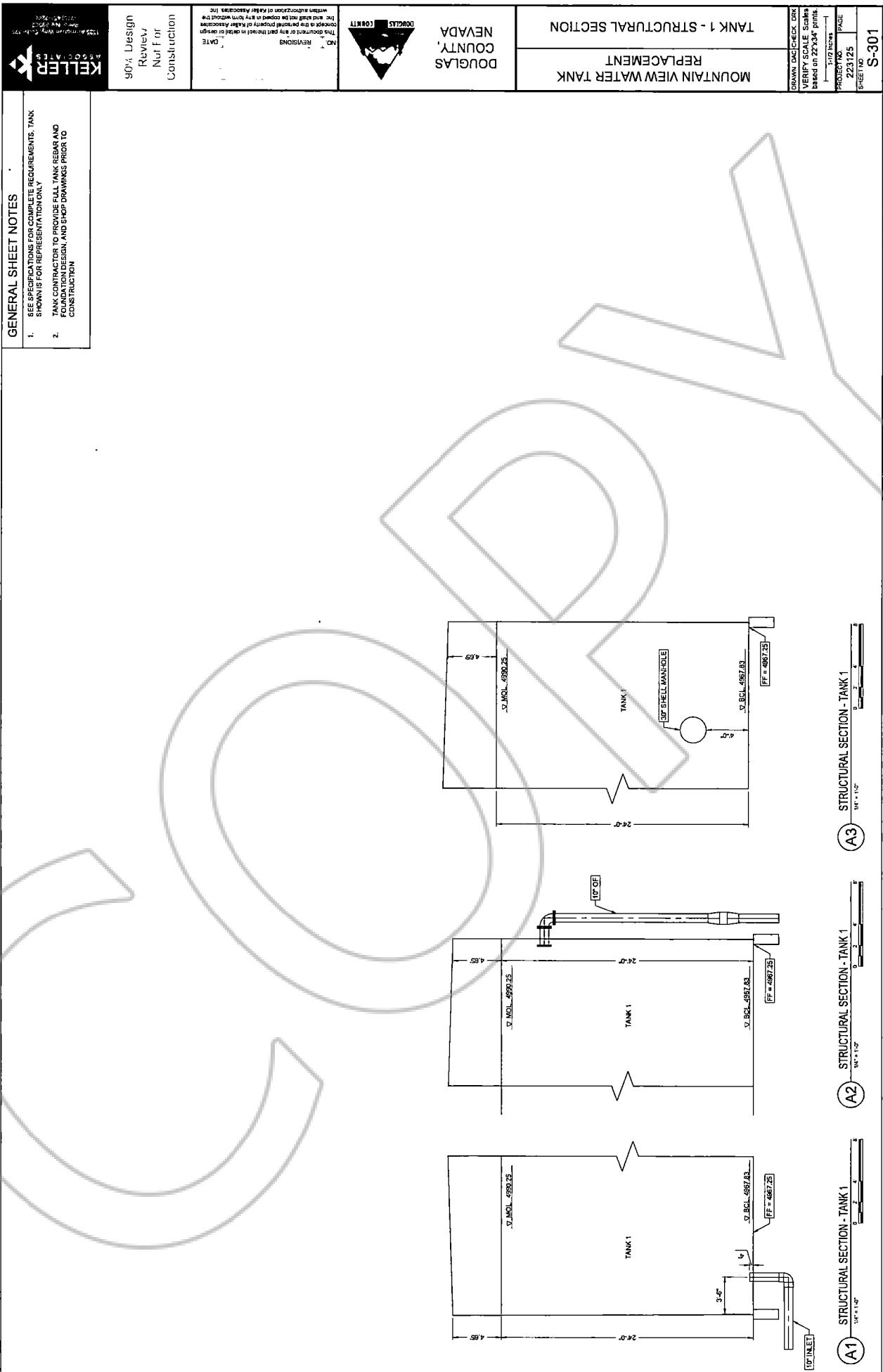
TANK 1 - STRUCTURAL PLAN

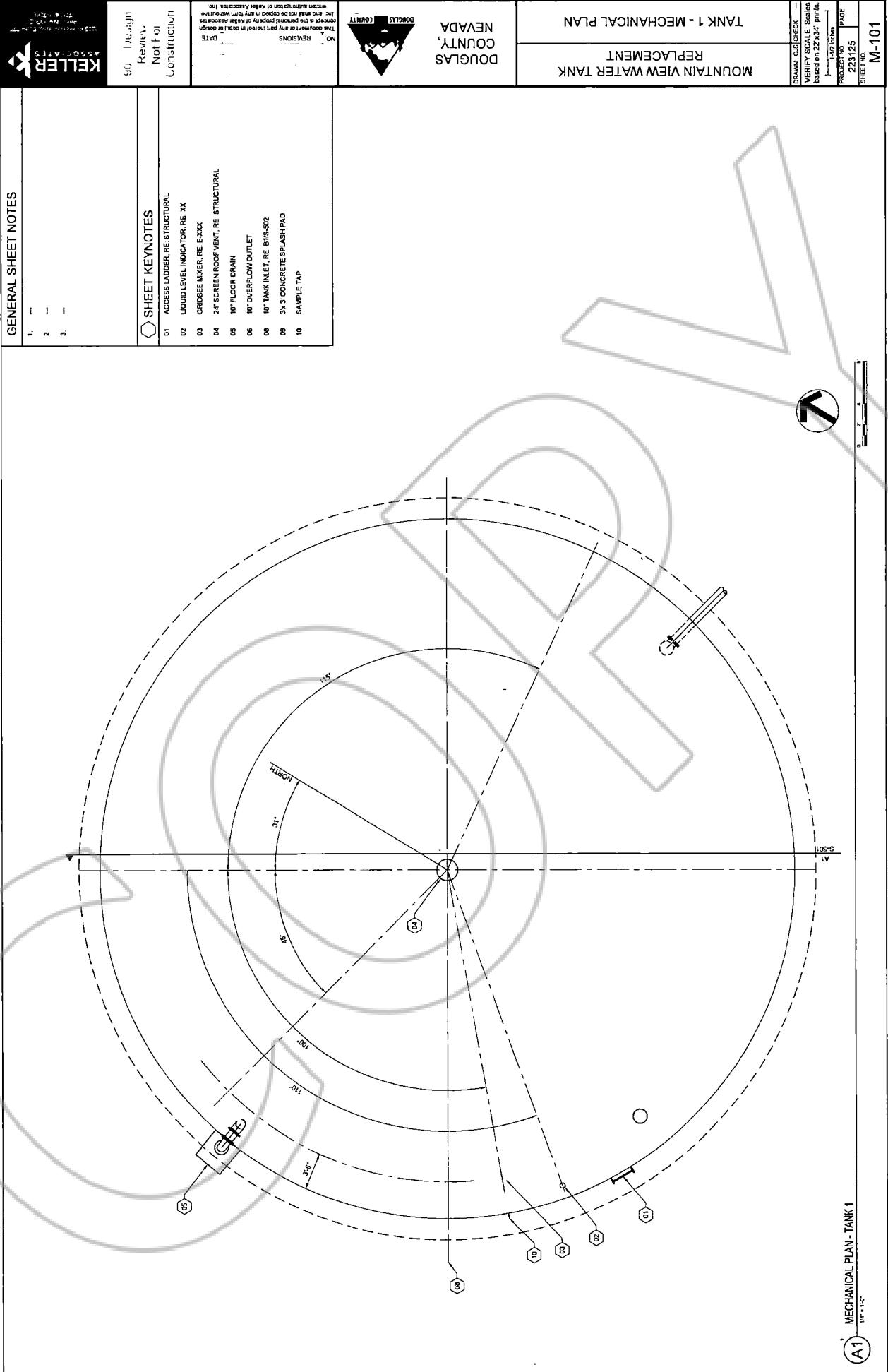
SHEET KEYNOTES

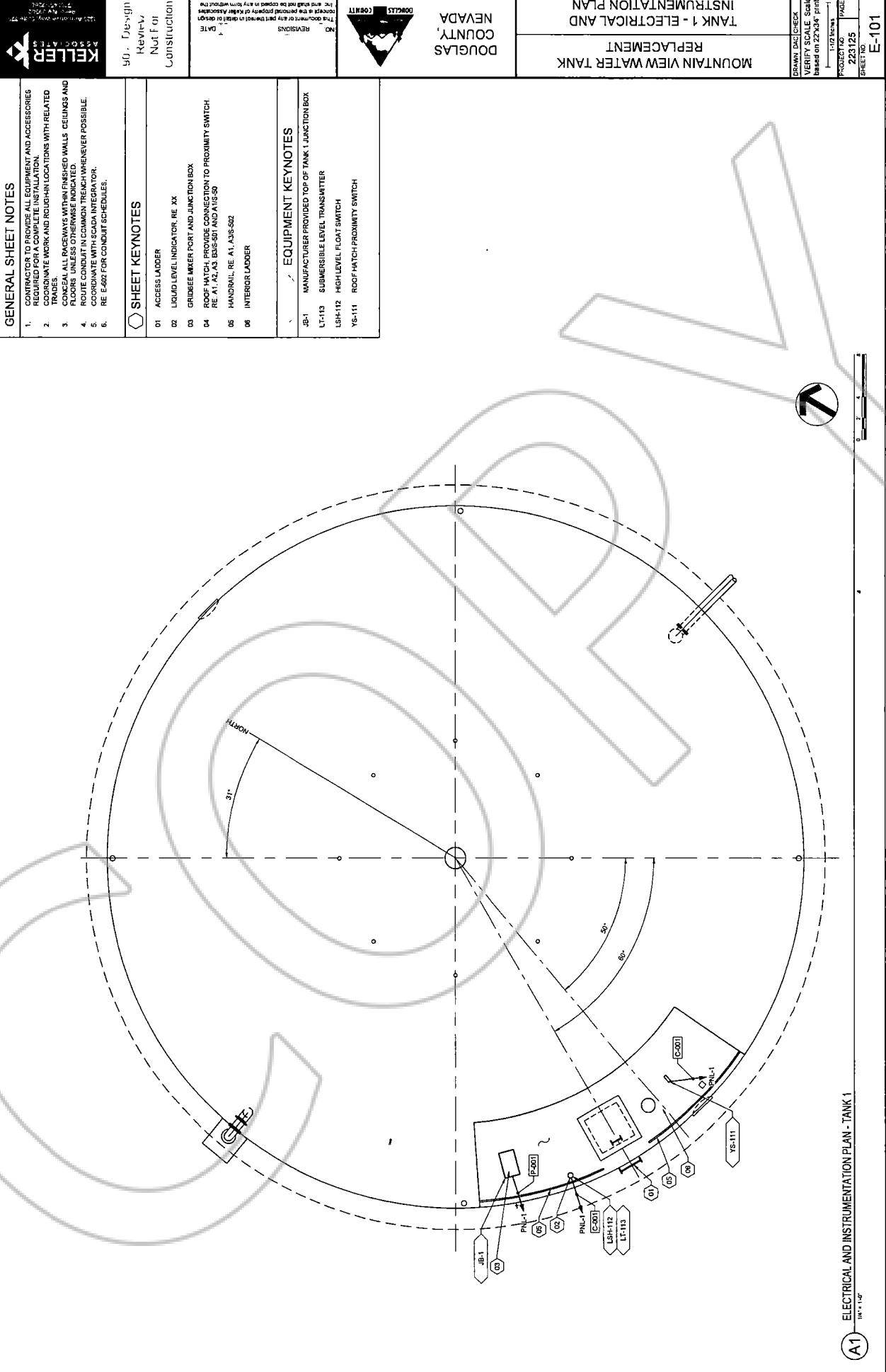
01	ACCEES LADDER
02	LIQUID LEVEL INDICATOR
03	GRIBBLE MIXER PORT
04	24" TANK ROOF-VENT RE B16-S01
05	10' E/F/C DR/AIN
06	10' DIVERFLLOW OUTLET
07	30' SHELL MANHOLE, RE A16-S02
08	10' TANK INLET, RE B16-S02
09	SAMPLE TAP
10	ROOF ANG/SUP COATING, RE B20-S02
11	42" x 42" FLOOR HATCH, RE A16-S01 AND A16-S02
12	HANDRAIL, RE A16-S02
13	ANODE SUPPORTS, RE A16-S03
14	STAINLESS STEEL JUNCTION BOX, RE A16-S03
15	INTERLACE LADDER
16	PERIMETER ROOF/VENT



STRUCTURAL PLAN - TANK 1









Construction
Review
Not for
Design

SECTION
T
ER TANK

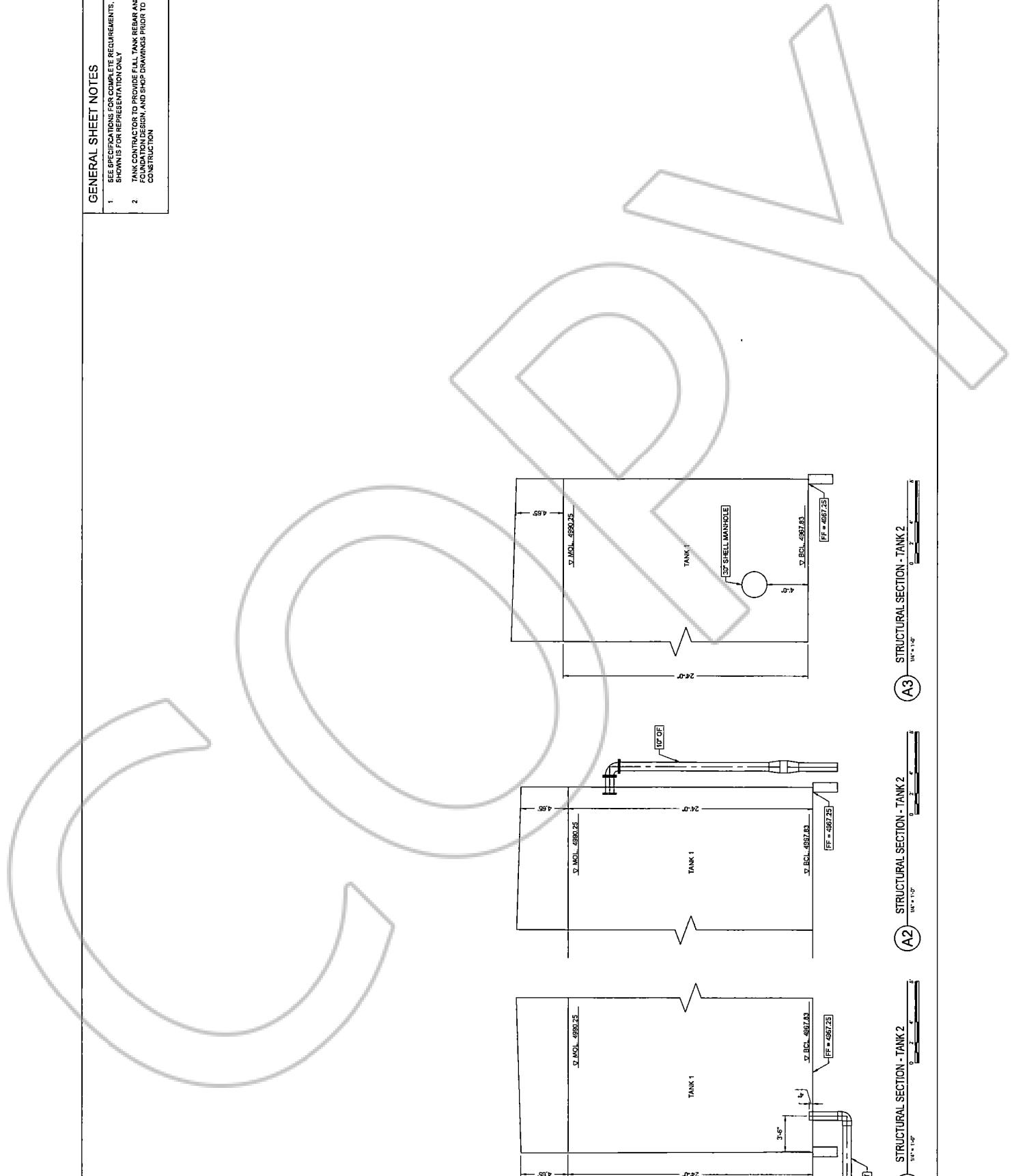
MOUNTAIN VIEW WATER TANK REPLACEMENT

S-302

GENERAL SHEET NOTES

- SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS. TANK
SHOWN IS FOR REPRESENTATION ONLY**

**TANK CONTRACTOR TO PROVIDE FULL, TANK REBAR AND
FOUNDATION DESIGN, AND SHOP DRAWINGS PRIOR TO
CONSTRUCTION**



A1

MECHANICAL PLAN - TANK 2

IN • FEET



Y

Z

W

X

U

V

T

S

R

Q

P

O

N

M

L

K

J

I

H

G

F

E

D

C

B

A

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

A

B

C

D

E

F

G

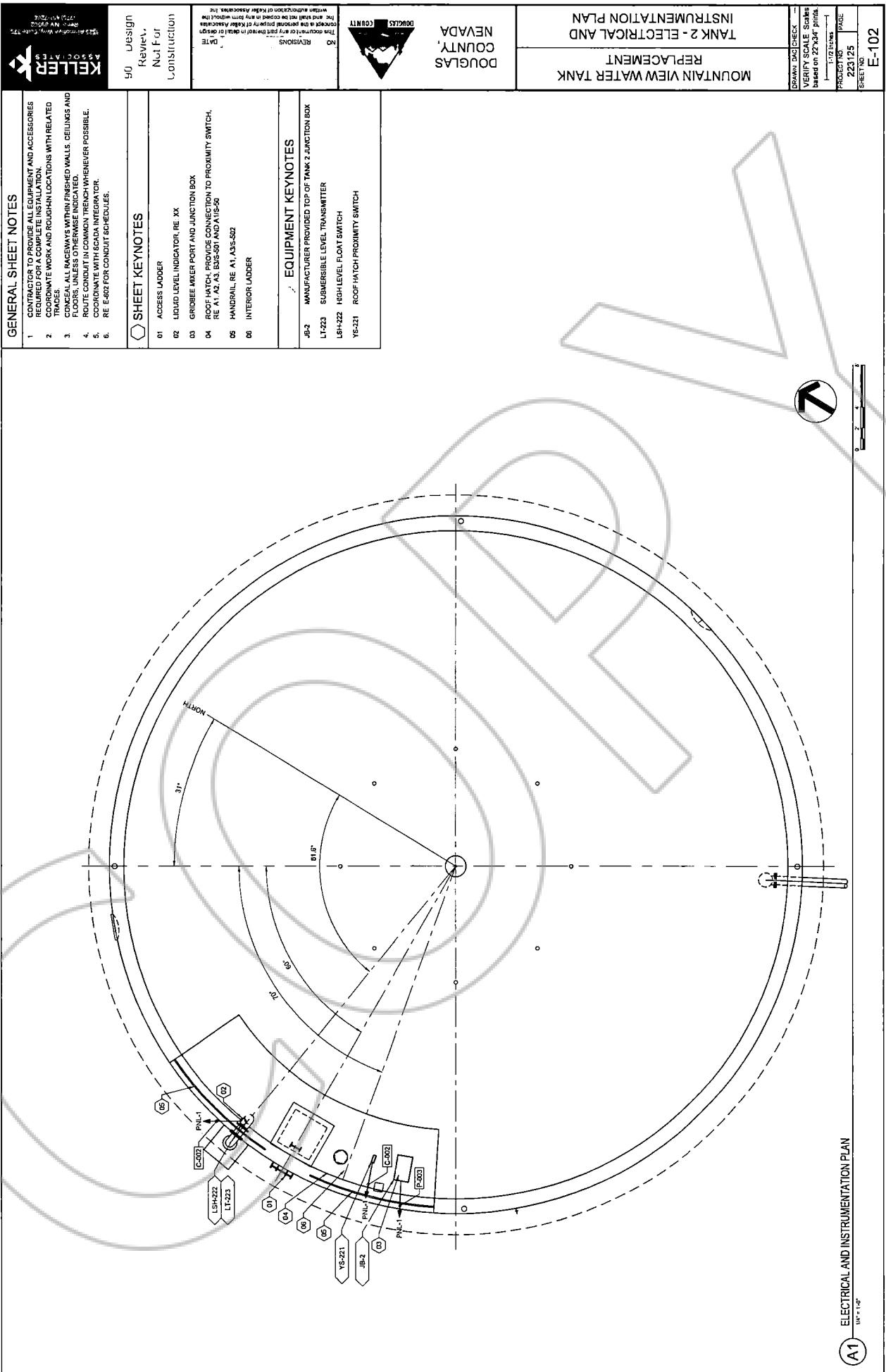
H

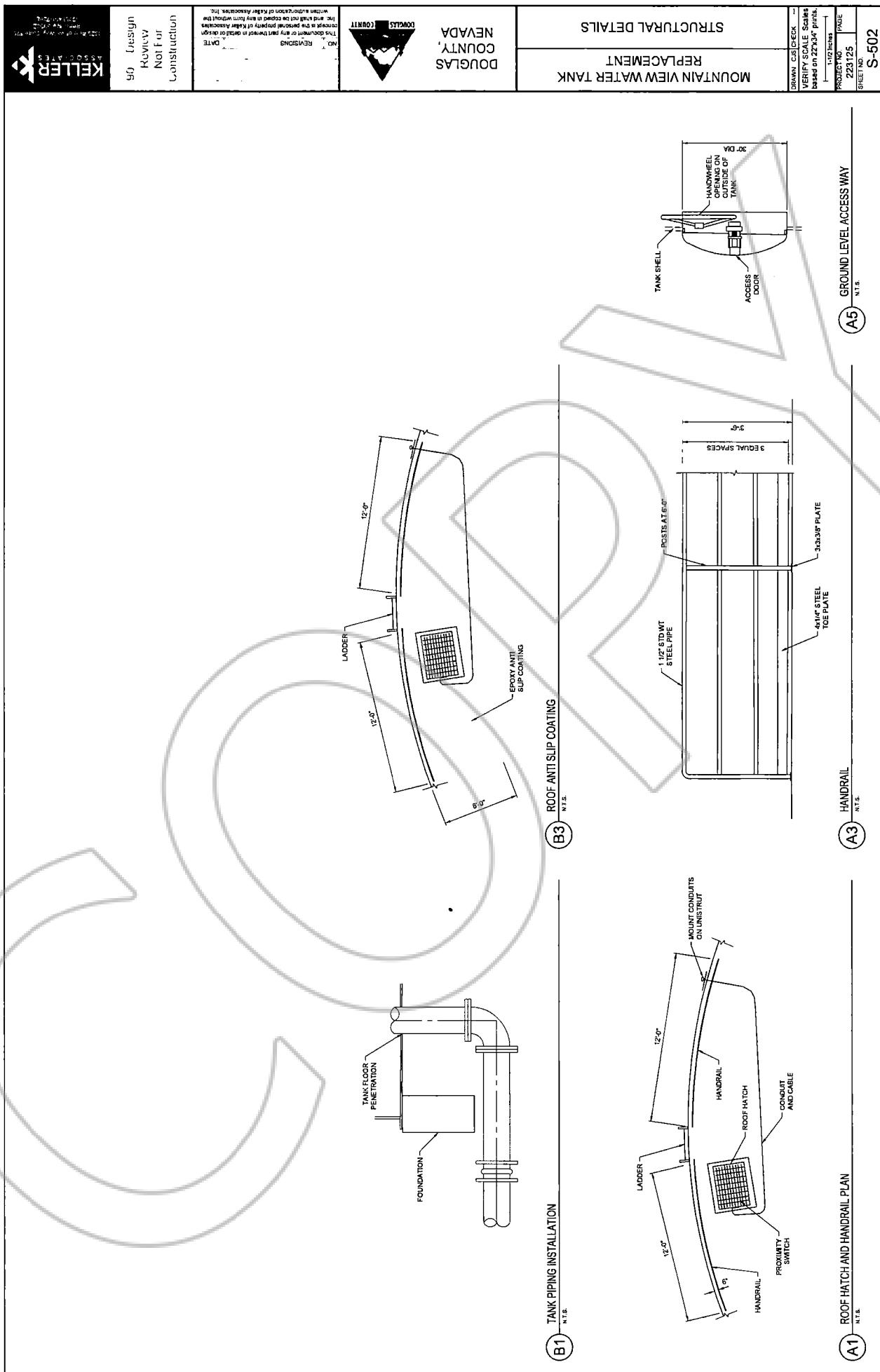
I

J

K

L







90% Design
Review
Not For
Construction

877.451.7202
877.451.7202
877.451.7202

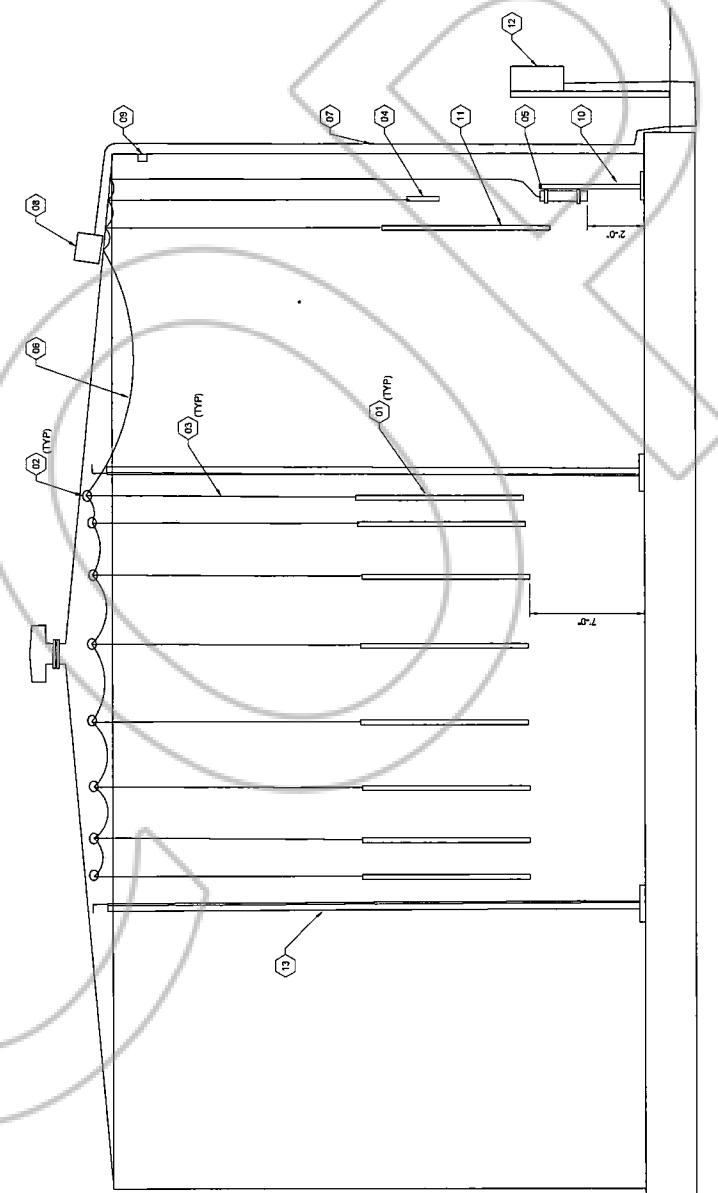


DOUGLAS
COUNTY
NEVADA

MOUNTAIN VIEW WATER TANK
REPLACEMENT

STRUCTURAL DETAILS
DRAWN C/S/CHECK
VERIFY SCALE: Scales
based on 22x34 prints.
C.R./Inches
PROJECT NO. 223125
PAGE 1
SHEET NO. S-503

CATHODIC PROTECTION NOTES:
01 ANODES
02 ANODE SUPPORTS
03 ANODE SUPPORT CORDS
04 COPPER SULFATE REFERENCE CELL
05 SYSTEM CABLES
06 RIGID STEEL CONDUIT FOR EXPOSED CABLING
07 STAINLESS STEEL JUNCTION BOX
08 CONNECTION FROM TANK SHELL TO METAL TO
REFERENCE CELL SUPPORT
10 REFERENCE CELL SUPPORT
11 ANODE NEAR HATCH
12 ANODE CONTROL STATION
13 TANK ROOF COLUMNS



A1 CATHODIC PROTECTION ELEVATION
N.S.



90% Design
Review
Not For
Construction

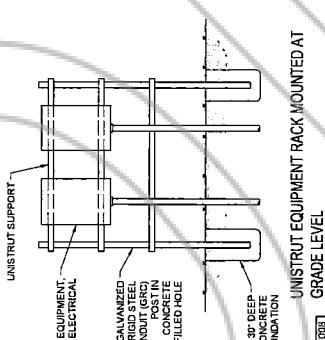
DATE
NO. REVISIONS
THIS DRAWING IS THE PROPERTY OF MOUNTAIN VIEW TANK CO., INC.
IT IS TO BE USED FOR THE DESIGN AND CONSTRUCTION OF THE
PROJECT IDENTIFIED ON THE TITLE BLOCK. IT IS NOT TO BE COPIED OR
TRANSMITTED TO ANY OTHER PARTY WITHOUT THE WRITTEN APPROVAL OF
MOUNTAIN VIEW TANK CO., INC.

DOUGLAS COUNTY, NEVADA
DATE
NO. REVISIONS
THIS DRAWING IS THE PROPERTY OF MOUNTAIN VIEW TANK CO., INC.
IT IS TO BE USED FOR THE DESIGN AND CONSTRUCTION OF THE
PROJECT IDENTIFIED ON THE TITLE BLOCK. IT IS NOT TO BE COPIED OR
TRANSMITTED TO ANY OTHER PARTY WITHOUT THE WRITTEN APPROVAL OF
MOUNTAIN VIEW TANK CO., INC.

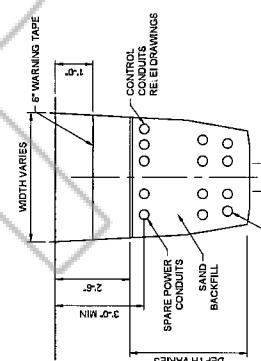
DOUGLAS COUNTY, NEVADA
DATE
NO. REVISIONS
THIS DRAWING IS THE PROPERTY OF MOUNTAIN VIEW TANK CO., INC.
IT IS TO BE USED FOR THE DESIGN AND CONSTRUCTION OF THE
PROJECT IDENTIFIED ON THE TITLE BLOCK. IT IS NOT TO BE COPIED OR
TRANSMITTED TO ANY OTHER PARTY WITHOUT THE WRITTEN APPROVAL OF
MOUNTAIN VIEW TANK CO., INC.

ELECTRICAL DETAILS
REPLACEMENT
MOUNTAIN VIEW WATER TANK

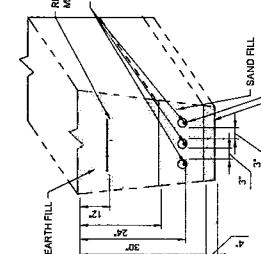
DRAWN BY: CHECKED BY:
VERIFIED SCALE: 1:254 based on 22x34 prints
1/16" INCHES
PROJECT NO.: PAGE
223125 SHEET NO. E-501



UNISTRUT EQUIPMENT RACK MOUNTED AT
GRADE LEVEL
Elevation (E)
N.T.S.



STANDARD ELECTRICAL DUCT BANK DETAIL
Elevation (E)
N.T.S.



INSTALLATION OF UNDERGROUND CONDUITS
Elevation (E)
N.T.S.



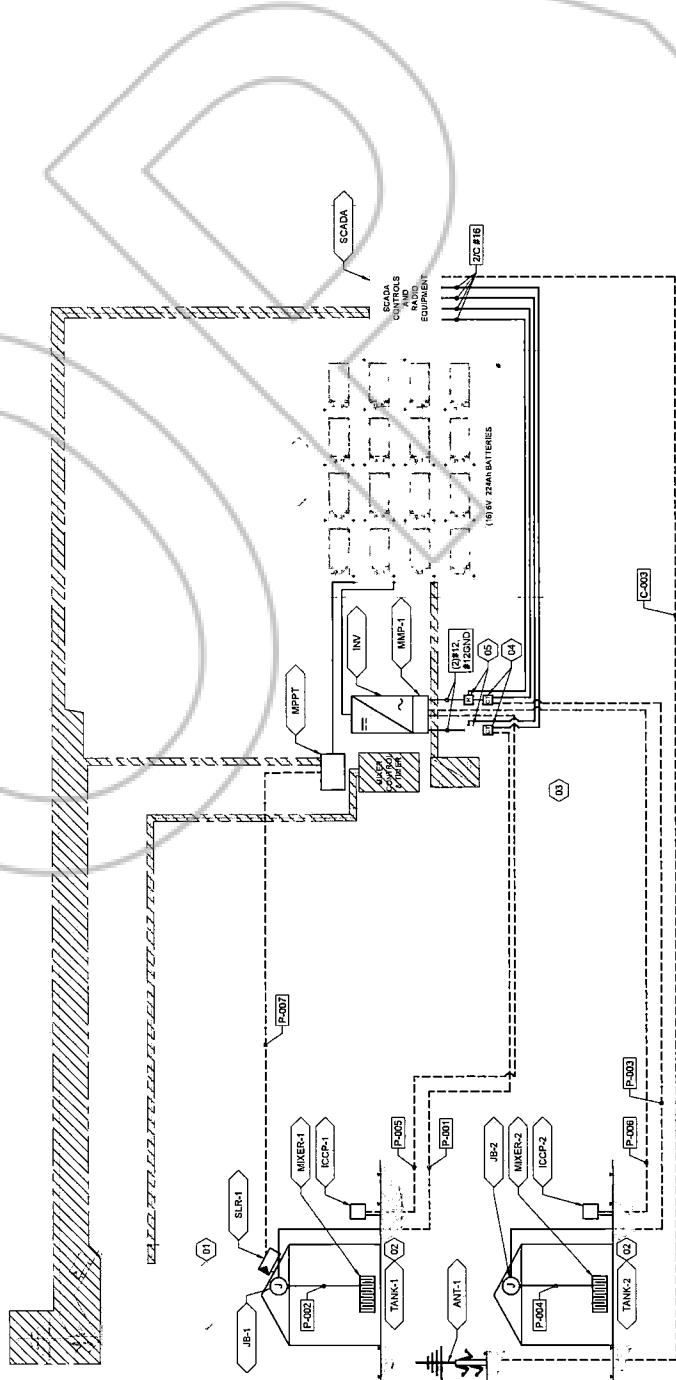
GENERAL SHEET NOTES

- CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.**
COORDINATE WORK AND ROUGH-UPS LOCATIONS WITH RELATED TRADES.
CONTRACTOR TO CONDUCT A COMMON TRUNK WHENEVER POSSIBLE.
CONTRACTOR SHALL PROVIDE NEW UPDATED DIRECTORIES FOR ALL PANELS IN WHICH CIRCUITS ARE ADDED OR REMOVED.

SHEET KEYNOTES

- EXISTING TOWER FOR DEMO, COORDINATE WITH INTEGRATOR FOR RELOCATION OF ANTENNA.
 - RECONSTRUCTION PLANNING REQUIREMENTS FOR NEW TOWER TO BE CONSTRUCTED DOWNTOWN; NEW ELECTRICAL AND CONTROLS EQUIPMENT TO BE INSTALLED PRIOR TO SWITCH OVER IN ORDER TO MINIMIZE TIME OFFLINE.
 - RELAY, ELECTRICAL, AND CONTROLS EQUIPMENT SHIPPED FOR INSTALLATION AT NEW CLAMP CURRENT MODEL.
 - AC/DC POWER SOURCE FOR EACH GRIDBEE METER'S CONDUCTOR, RETAINING AMMETERS, AND TESTING CURRENT TRANSFORMER FOR EACH GRIDBEE METER PANEL LIGHTS.
 - INSTANT RELAY FOR EACH GRIDBEE METER, RETAIN ASSEMBLY BELT FOR EACH GRIDBEE METER.
 - INSTANT RELAY FOR EACH GRIDBEE METER, RETAIN ASSEMBLY BELT FOR EACH GRIDBEE METER.

PANEL NAME: MMPI-1									
LOCATION: WEST OF TANK 2		VOLTAGE: 240-120		PHASE & WIRE: 1PH-3W		MAIN BREAKER: 10A		CIRCUIT DESCRIPTION	
FED FROM: PHOTOVOLTAIC MODULES		FEED: 100A		AC RATING: 10K		SPACES: 6		SCADA	
MOUNTING SURFACE		ENCLOSURE: N1		MAIN BREAKER:		GFI OUTLET		NOTES	
NOTES	CIRCUIT DESCRIPTION	I CODE	LOAD	POLÉ	BKR	CIR	PH	CODE	NOTES
MAIN 1	I	1176	2	20	1	A	20	2	100A
	I	1176	2	20	3	B	4	2	100A
SPARE	I	1176	2	20	3	C	4	2	100A
	I	1176	2	20	3	D	4	2	100A
CONNECTED TO PHASE A:		13.50	CONNECTED TO PHASE B:		13.56	CONNECTED TO PHASE C:		13.56	50% 50%
TOTAL VA:		2171	CONNECTED AMPS:		11	DIVERSIFIED AMPS:		13	DIVERSITY:



121212 DOUGLAS COUNTY MTN VIEW TANKAGE DESIGN CADS-DESIGN PLANS-108 ELC-601.DWS LAST SAVED 8/29/2024 9:41 AM PRINTED 7/12/2026 2:38 PM

ONE-LINE DIAGRAM

223123
SHEET NO.
E-601

SHEET NO. **E-601**



KELLER

ASSOCIATES

INC.

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

1972

ELECTRICAL CABLE AND CONDUIT SCHEDULE

CONDUIT TAG	REF. SHEET	CONDUIT SPEC*	CABLE SPEC	SERVICE	DESCRIPTION	ORIGIN	DESTINATION	NOTES
P-001	E-120, E-601	3/4"	(2) #2, 417 GND	120V	TANK 1 GLOBE VALVE	PHL 1	JB 1	
P-002	E-601	N/A	MANUFACTURER'S CABLE	120V	-	-	WATER-1	-
P-003	E-120, E-601	3/4"	(2) #12, 412 GND	120V	TANK 2 GLOBE VALVE	PHL 1	JB 2	
P-004	E-601	N/A	MANUFACTURER'S CABLE	120V	TANK 2 GLOBE VALVE	PHL 2	WATER 2	
P-005	E-120, E-601	MATCH-XSTLG	MATCH-XSTLG	N/A	SCALAR MODULES	SIR 1	MPPT	

*NOTE: CONDUIT SPECIFICATION IS INDICATIVE OF THE TYPE OF INSTALLATION REQUIRED FOR THE MAJORITY OF THE CABLE ROUTING. EC IS RESPONSIBLE FOR ALL WIRING METHODS AND MATERIALS INCLUDING CONDUIT TRANSITIONS, SUPPORTS, PENETRATIONS, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION AND MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. INSTRUMENT, SIGNAL, AND NETWORK CABLES ARE TO BE SEPARATED FROM POWER CONDUCTORS. CABLE VOLTAGE > 250 SHALL BE ROUTED IN A SEPARATE RACEWAY OR SHIELDED MARINE SEPARATION AND/OR MINIMUM DISTANCE OF 12 IN. FROM SIGNAL CABLES, MAINAINED FOR ENTIRE LENGTH OF CABLE RUN.

CONTROL CABLE AND CONDUIT SCHEDULE

CONDUIT TAG	REF. SHEET	CONDUIT SPEC	CABLE SPEC	SERVICE	DESCRIPTION	ORIGIN	DESTINATION	NOTES
C-001	E-120, E-601	3/4"	2/16#	DISCRETE	TANK 1 HIGH INTAKE/TANK 2 HIGH LEVEL	PHL 1	PHL 1	-
C-001	E-120, E-601	3/4"	2/16#	ANALOG	TANK 1 LEVEL	PHL 1	LH 112	-
C-002	E-120, E-601	3/4"	2/16#	DISCRETE	TANK 2 HIGH INTAKE	PHL 1	LH 113	-
C-002	E-120, E-601	3/4"	2/16#	ANALOG	TANK 2 HIGH LEVEL	PHL 1	YS 221	-
C-003	E-120, E-601	3/4"	2/16#	DISCRETE	ANTENNA	PHL 1	YS 227	-
C-003	E-120, E-601	3/4"	2/16#	ANALOG	ANTENNA	PHL 1	LT 223	-
C-003	E-120, E-601	MATCH-XSTLG	MATCH-XSTLG	N/A	SCADA	ANT 1		

*NOTE: CONDUIT SPECIFICATION IS INDICATIVE OF THE TYPE OF INSTALLATION REQUIRED FOR THE MAJORITY OF THE CABLE ROUTING. EC IS RESPONSIBLE FOR ALL WIRING METHODS AND MATERIALS INCLUDING CONDUIT TRANSITIONS, SUPPORTS, PENETRATIONS, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION AND MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. INSTRUMENT, SIGNAL, AND NETWORK CABLES ARE TO BE SEPARATED FROM POWER CONDUCTORS. CABLE VOLTAGE > 250 SHALL BE ROUTED IN A SEPARATE RACEWAY OR SHIELDED MARINE SEPARATION AND/OR MINIMUM DISTANCE OF 12 IN. FROM SIGNAL CABLES, MAINAINED FOR ENTIRE LENGTH OF CABLE RUN.

DUGLAS COUNTY, NEVADA
CABLE AND CONDUIT SCHEDULE

DUGLAS

COUNTY,

NEVADA

REPLACEMENT

MOUNTAIN VIEW WATER TANK

DRAWN -

CHECK -

VERIFIED -

SIGNED -

BASED ON 2234 PMS

1/16 INCHES

PROJECT NO. 223125

PAGE 1

SHEET NO. E-602

INSTRUMENT TAG IDENTIFICATION LETTERS

INSTRUMENTATION / DEVICE TAGS		INSTRUMENT FUNCTION		ELEMENT		MEASURED VARIABLE		CONTROLLER		ALARM HIGH		ALARM LOW		MATCH HIGH		MATCH LOW		SWITCH HIGH		SWITCH LOW		CONTACTING		RELAY SPECIAL		TRANSDUCER		POWER SOURCE		TIME		LEVEL		MOISTURE/LUMINOSITY		PRESSURE/VACUUM		QUANTITY		RADATION		SPEED		TEMPERATURE		POSITION		Y		Z		R		T		U		V		W		X		Y		Z		A		B		C		D		E		F		G		H		I		J		K		L		M		N		O		P		Q		R		S		T		U		V		W		X		Y		Z		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF		GG		HH		II		JJ		KK		LL		MM		NN		OO		PP		QQ		RR		SS		TT		UU		VV		WW		XX		YY		ZZ		AA		BB		CC		DD		EE		FF</	

PROCESS AND PIPING LINE LEGEND		PROCESS SERVICE CODES		PIPING COMPONENTS		PIPE FITTINGS		EQUIPMENT	
MAIN PROCESS	—	AL	AUM	SAMPLE POINT	FLANGE	FLANGE REDUCING	FLANGE	BIN	HEATER
SECONDARY PROCESS	—	ALP	AIR LOW PRESSURE	SP	ORIFICE UNION	ORIFICE UNION	ORIFICE UNION	BARREL	BARREL
CONNECTING LINES	—	BW	BACKWASH	—	ECCENTRIC UNION (FLAT SIDE DOWN)	ECCENTRIC UNION (FLAT SIDE DOWN)	ECCENTRIC UNION (FLAT SIDE DOWN)	OPEN BULK STORAGE	OPEN BULK STORAGE
NON-CONNECTING LINES	—	CA	COMPRESSED AIR	—	DAINTER	DAINTER	DAINTER	CONVEYOR	CONVEYOR
—	—	CHM	CHEMICAL	—	VENT COVER	VENT COVER	VENT COVER	ROTARY FEEDER	ROTARY FEEDER
—	—	CIP	CLEAN IN PLACE	—	SILENCER	SILENCER	SILENCER	AUTOMATIC TRANSFER SWITCH	AUTOMATIC TRANSFER SWITCH
—	—	CLS	CHLORINE SOLUTION	—	AIR FILTER	AIR FILTER	AIR FILTER	GENERATOR	GENERATOR
—	—	CSL	CIRCULATED SLUDGE	—	EXPANSION JOINT	EXPANSION JOINT	EXPANSION JOINT	MANUAL BAR SCREEN	MANUAL BAR SCREEN
—	—	DR	DRAIN	—	PLATE AND FRAME HEAT EXCHANGER	PLATE AND FRAME HEAT EXCHANGER	PLATE AND FRAME HEAT EXCHANGER	SCREW CONVEYOR	SCREW CONVEYOR
—	—	DG	DIGESTER GAS	—	SHELL AND TUBE HEAT EXCHANGER	SHELL AND TUBE HEAT EXCHANGER	SHELL AND TUBE HEAT EXCHANGER	SOFT STARTER	SOFT STARTER
—	—	DS	DIGESTED SLUDGE	—	CAP (NEEDED)	CAP (NEEDED)	CAP (NEEDED)	VARIABLE FREQUENCY DRIVE	VARIABLE FREQUENCY DRIVE
—	—	FA	FOUL AIR	—	HOSE CONNECTION	HOSE CONNECTION	HOSE CONNECTION	AERATOR	AERATOR
—	—	FC	FERRIC CHLORIDE	—	PLUG	PLUG	PLUG	FAN	FAN
—	—	FLT	FILTRATE	—	CAP	CAP	CAP	ELECTRIC MOTOR	ELECTRIC MOTOR
—	—	HSL	HEATED SLUDGE LINE	—	HOSE CONNECTION (FEMALE)	HOSE CONNECTION (FEMALE)	HOSE CONNECTION (FEMALE)	AGITATOR / MIXER	AGITATOR / MIXER
—	—	HWR	HEATING WATER RETURN	—	HOSE CONNECTION (MALE)	HOSE CONNECTION (MALE)	HOSE CONNECTION (MALE)	TOTE	TOTE
—	—	HWS	HEATING WATER SUPPLY	—	REDUCER	REDUCER	REDUCER	DRUM	DRUM
—	—	ML	MIXED LIQUOR	—	FLExIBLE HOSE	FLExIBLE HOSE	FLExIBLE HOSE	VESSEL	VESSEL
—	—	NG	NATURAL GAS	—	BUNG FLANGE	BUNG FLANGE	BUNG FLANGE	WAFER-TYPE STATIC MIXER	WAFER-TYPE STATIC MIXER
—	—	OF	OVERFLOW	—	—	—	—	—	—
—	—	PD	PUMPED DRAIN/PLANT DRAIN	—	—	—	—	—	—
—	—	PE	PRIMARY EFFLUENT	—	—	—	—	—	—
—	—	PLR	POLYMER	—	—	—	—	—	—
—	—	PS	PRESSURE SEWER	—	—	—	—	—	—
—	—	RAS	RETURN ACTIVATED SLUDGE	—	—	—	—	—	—
—	—	RS	RAW SEWAGE	—	—	—	—	—	—
—	—	SA	SAMPLE	—	—	—	—	—	—
—	—	SCM	SCUM	—	—	—	—	—	—
—	—	SD	STORM DRAIN	—	—	—	—	—	—
—	—	SE	SECONDARY EFFLUENT	—	—	—	—	—	—
—	—	SLD	SLUDGE	—	—	—	—	—	—
—	—	SPD	SLUMP PUMP DISCHARGE	—	—	—	—	—	—
—	—	SS	SANITARY SEWER (GRAVITY)	—	—	—	—	—	—
—	—	TE	TER TARY EFFLUENT	—	—	—	—	—	—
—	—	V	VENT	—	—	—	—	—	—
—	—	WAS	WASTE ACTIVATED SLUDGE	—	—	—	—	—	—
PROJECT SCOPE LEGEND		EXISTING ITEM		SAMPLE		FLOW CONDITIONER		TANK OPEN	
—		NEW ITEM		SCUM		TANK CLOSED		TANK COVERED	
—		FUTURE ITEM		EXPANSION CHAMBER		TANK, DOME ROOF		TANK, CONE ROOF	
—		DEMOLITION ITEM		FLOOR DRAIN		TANK, DOUBLE WALL		TOTE	
—		RELOCATED TO BE RELOCATED ITEM		GRINDER		ROOF DRAIN		TRENCH DRAIN	
—		VENDOR PROVIDED EQUIPMENT		HOSE RACK		RUPTURE DISK		EJECTOR / EDUCTOR	
—		—		STATIC METER		INLINE METER		COLLECTION TO DRAIN	
—		—		PIPING COMPONENTS		PULSATION DAMPFENER		—	
—		—		Y STRAINER		ACCUMULATOR		—	
—		—		BASKET STRAINER		AREADRAIN		—	
—		—		CONDENSATE TRAP		CONDENSATE TRAP		—	
—		—		DEMASTER		DEMISTER		—	
—		—		EJECTOR / EDUCTOR		EJECTOR / EDUCTOR		—	
—		—		COLLECTION TO DRAIN		SURGE DAMPFENER		—	
—		—		—		SIGHT GLASS		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—		—	
—		—		—		—			



CELLE R
15500-A-165

Construction
Not For
Review,
Design

DATE _____

Design engineer _____
Reviewer _____
Design department _____
Review department _____
Comments _____

REVISIONS

COUNTRY

S
9

Douglas
County
Nevada

K

END

P&ID LEG

R

CHECK BMC

1-1/2 Inches
PROJECT NO PAGE
223125 .
SHEET NO.
EI-003

VALVES	ANGLE VALVE	THREE-WAY VALVE	FOUR-WAY VALVE	AIR RELEASE VALVE
				

VALVE ACTUATORS	
PNEUMATIC DIAPHRAGM SPRING-OPPOSED, SINGLE OR DOUBLE ACTING	
VALVE POSITIONER	
HYDRAULIC OR PNEUMATIC CYLINDER ACTUATOR	
HANDWHEEL, USED WITH ANY ACTUATOR	
MANUAL ACTUATOR	
MOTOR ACTUATOR	
ELECTRO-MAGNETIC ACTUATOR	
VALVE FAILURE STATE SHOWN BENEATH VALVE	
FO = FAIL OPEN FC = FAIL CLOSED FL = FAIL LAST	

VALVES	BALL VALVE	GATE VALVE	GLOBE VALVE	NEEDLE VALVE
				

PUMPS	CENTRIFUGAL PUMP, FAN, OR BLOWER	VERTICAL MULTI-STAGE CENTRIFUGAL PUMP	BLOWER OR COMPRESSOR
			

The diagram illustrates seven types of pumps, each represented by a unique symbol:

- DIAPHRAGM PUMP**: Represented by a circle with a vertical line through the center.
- POSITIVE DISPLACEMENT PUMP**: Represented by a circle with a horizontal line through the center.
- EJECTOR PUMP**: Represented by a vertical pipe with a curved arrow pointing upwards.
- GEAR PUMP**: Represented by two interlocking circles.
- CHEMICAL METERING PUMP**: Represented by a square with a diagonal line from top-left to bottom-right.
- PISTON COMPRESSOR**: Represented by a diamond shape with a vertical line through the center.
- RECIPROCATING PUMP**: Represented by a rectangle with a vertical line through the center.

ROTARY VANE PUMP
 PROGRESSIVE CAVITY PUMP
 SUBMERSIBLE SLURRY PUMP
 ROTARY LOBE PUMP
 PERISTALTIC PUMP
 VACUUM PUMP
 VERTICAL TURBINE LINESHAFT PUMP

A flow measurement methods diagram showing five methods arranged vertically from top to bottom: FLOW METERS, ULTRASONIC FLOW METER, CLAMP ON FLOW METER, VORTEX FLOW METER, and LEVEL.

The diagram illustrates seven different sensor types, each accompanied by its name and a representative symbol:

- FLOAT SWITCH**: Represented by a circle with a horizontal line through it.
- FLOAT SWITCH, TILT-TYPE**: Represented by a circle with a diagonal line through it.
- TUNING FORK**: Represented by a square frame enclosing a zigzag line.
- CAPACITANCE**: Represented by two parallel vertical lines with a small gap between them.
- GUIDED WAVE RADAR**: Represented by a square frame with a wavy line inside.
- RADAR, NON-CONTACT**: Represented by a square frame with a wavy line and a small circle.
- ULTRASONIC**: Represented by a square frame with a wavy line and a sound wave symbol.
- LASER**: Represented by a square frame with a wavy line and a laser beam symbol.

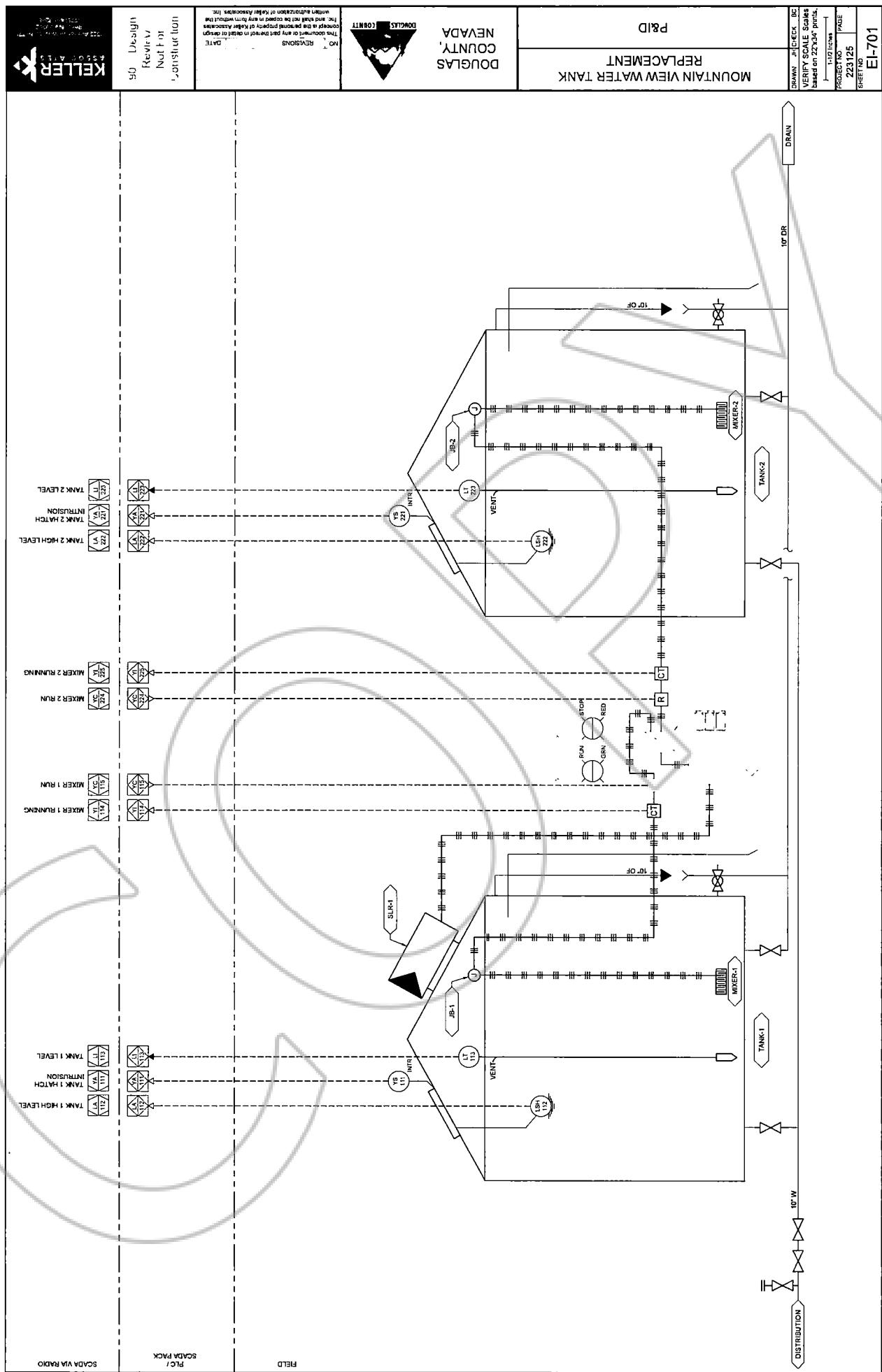


Exhibit C - Additional Terms and Conditions

Abbreviations

BLM U.S. Department of the Interior, Bureau of Land Management, Sierra Front Field Office
POD Plan of Development

Definitions

Grant: the instrument that the BLM has issued to the holder authorizing the use of public lands.

Holder: the entity to whom the BLM has issued grant no. N-045053.

Authorized officer: the individual to whom has been delegated the authority to approve all actions required for the granting and management of rights-of-way REFER TO BLM MANUAL 1203 within the Sierra Front Field Office. During the term of the grant, the holder shall contact the authorized officer through their designated representative:

Sierra Front Field Office
Attn: Assistant Field Manager
Lands and Realty
5665 Morgan Mill Road
Carson City, Nevada 89701
Telephone: (775) 885-6000

Right-of-way: the public lands that the BLM has authorized the holder to use or occupy under N-045053. The holder may only use the right-of-way for the specific use the grant authorizes, as determined by the authorized officer.

Facility: an improvement or structure, whether existing or planned, that is or would be owned and controlled by the holder within a right-of-way.

Notice to proceed: a written authorization, issued on Form 2800-15 Right-of-way Notice to Proceed, by the authorized officer that allows the holder to initiate actions under the grant. The authorized officer may issue separate notices to proceed if the grant involves distinct work phases and/or locations. Each notice to proceed will specify the nature of work, location, and dates to be authorized.

Substantial deviation: a change in the authorized location or use which requires:

- 1) Construction or use outside the boundaries of the right-of-way; or
- 2) Any change from, or modification of, the authorized use. Examples of substantial deviation may include: adding equipment, overhead or underground lines, pipelines, structures, or other facilities not included in the grant.

Surface disturbing activities: any authorized action that disturbs vegetation and/or surface soil.

General	
a.	This grant is subject to all valid rights existing on the effective date of the grant.
b.	This grant is issued subject to the holder also obtaining permits or clearances from applicable Federal agencies, State, Tribal, County, and other local authorities with regulatory authority over the approved land uses described herein.
c.	The holder shall contact the authorized officer, either in writing or by telephone, and obtain written approval prior to beginning any activity that is a substantial deviation from this grant or that will cause new surface disturbance.
d.	In case of change of address, the holder shall immediately notify the authorized officer in writing as previously described.
e.	The holder of this grant or the holder's successor in interest shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.) and the regulations of the Secretary of the Interior issued pursuant thereto.
f.	The holder shall conduct all activities associated with the construction, operation, and termination of the facility within the authorized limits of the right-of-way.
g.	The holder shall maintain the right-of-way in a safe, usable condition, as directed by the authorized officer.
h.	All design, material, and construction, operation, maintenance, and termination practices shall be in accordance with safe and proven engineering practices.
i.	The right-of-way shall be maintained in a sanitary condition at all times; waste material at those sites shall be properly contained and disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, used petroleum products, ashes, and equipment.
j.	No signs or advertising devices shall be placed on the right-of-way or on adjacent public lands, nor on approved facilities, except those posted by or approved in writing by the authorized officer.
Holder's Representative	
k.	The holder shall designate a representative(s) who shall have the authority to act upon and to implement instructions from the authorized officer. The holder's representative shall be available for communication with the authorized officer within a reasonable time when construction or other surface disturbing activities are underway.
Public Access and Use of Lands	
l.	The holder shall permit free and unrestricted public access to and upon the right-of-way for all lawful purposes except for those specific areas designated as restricted by the authorized officer to protect the public, wildlife, livestock, or facilities constructed within the right-of-way.
m.	The holder shall provide for the safety of the public entering the right-of-way. This includes, but is not limited to, barricades for open trenches, flagmen/women with communication systems for single-lane roads without inter-visible turnouts, and signage of hazards.
n.	Existing roads and trails on public lands that are blocked as the result of the holder's construction, operations, or maintenance activities shall be rerouted or rebuilt as directed by the authorized officer.

Road Maintenance	
o.	The road proposed as part of this grant shall be constructed and maintained in accordance with the BLM standards prescribed for a resource type road.
p.	The holder shall furnish and install culverts of the gauge, materials, diameter(s), and length(s) indicated and approved by the authorized officer. Culverts shall be free of corrosion, dents, or other deleterious conditions. Culverts shall be placed on channel bottoms on firm, uniform beds which have been shaped to accept them and aligned to minimize erosion. Backfill shall be thoroughly compacted. No equipment shall be routed over a culvert until backfill depth is adequate to protect the culverts.
q.	As directed by the authorized officer, the holder shall submit a complete culvert list to reflect the drainage plan for the road. The list shall include, but not be limited to, size(s), lengths, and locations of the culverts.
r.	The minimum diameter for culverts shall be 18 inches.
s.	The holder shall construct low-water crossings in a manner that will prevent any blockage or restriction of the existing channel, including fish passage. Material removed shall be stockpiled for use in rehabilitation of the crossings.
t.	All roads and parking areas shall be constructed to provide drainage and minimize erosion. Culverts shall be installed if necessary to maintain drainage. Areas to be used for roads and parking shall be surfaced with aggregate as directed by the authorized officer.
u.	As directed by the authorizing officer, all road segments shall be winterized by providing a well-drained roadway by water barring, maintaining drainage, and any additional measures necessary to minimize erosion and other damage to the roadway or the surrounding public lands.
Operations and Maintenance of Approved Facilities	
v.	The holder shall construct, operate, and maintain the facilities, improvements, and structures within this right-of-way in strict conformity with the POD dated December, 2023. Any relocation, additional construction, or use that is not in accord with the approved POD, shall not be initiated without the prior written approval of the authorized officer. Upon request, a copy of the complete right-of-way grant, including all stipulations and approved POD, shall be made immediately available to the authorized officer on the right-of-way during construction, operation, maintenance, and termination. Noncompliance with the above requirement will be grounds for an immediate temporary suspension of activities if it constitutes a threat to public health and safety or the environment.
w.	The holder shall not modify the layout, locations, or types of equipment or facilities shown in Exhibit (B) of this grant without prior written approval from the authorized officer. Variances from the site plans or drawings shown in Exhibit (B) must be approved in writing before commencing with new designs or specifications.
x.	Specific sites as identified by the authorized officer (e.g. archaeological sites, areas with threatened and endangered species, or fragile watersheds) where construction equipment and vehicles shall not be allowed shall be clearly marked onsite by the holder before any construction or surface disturbing activities begin. The holder shall be responsible for assuring that construction personnel are well trained to recognize these markers and understand the equipment movement restrictions involved.

y.	Construction-related traffic shall be restricted to routes approved by the authorized officer. New access roads or cross-country vehicle travel will not be permitted unless prior written approval is given by the authorized officer. Authorized roads used by the holder shall be rehabilitated or maintained when construction activities are complete as approved by the authorized officer.
z.	Within 60 days after receipt of the authorized officer's written notification of damage or defects found in the structure or related facilities the holder will restore the facility to the originally constructed condition, using materials of equal or superior quality to those used in the original construction.
aa.	Should the holder fail to perform the required maintenance or repair within 60 days of receipt of the authorized officer's written notification to do so, BLM may perform the required maintenance or repair, or at the discretion of the authorized officer, remove the facility, at the holder's expense, including the administrative costs to BLM to effect any such action.
Wildland Fire Management	
bb.	The holder shall be responsible, as determined by the authorized officer, for fire suppression costs resulting from wildland fire caused by the holder, including employees, agents, and/or representatives, and by all clients, customers, and/or contractors under the holder's supervision or control.
cc.	The holder shall be responsible for informing employees, agents, representatives, clients, customers, and/or contractors of the current fire danger and any required precautions or restrictions that may be placed in effect by the BLM or the State of Nevada. The holder may obtain current fire conditions from the Sierra Front Interagency Fire Dispatch Center online or by telephone at (775) 883-5995.
dd.	The holder shall immediately report all wildland fires that start within the right-of-way to the Sierra Front Interagency Dispatch Center by telephone or to other local emergency response agencies if the Sierra Front Interagency Dispatch Center cannot be contacted.
ee.	When directed by the authorized officer, the holder shall prepare a fire prevention and suppression plan that shall be reviewed, modified, and approved, as appropriate, by the authorized officer. The holder shall take into account such measures for prevention and suppression of fire on the right-of-way and other public land used or traversed by the holder in connection with operations of the right-of-way. Project personnel shall be instructed as to individual responsibility in implementation of the plan.
ff.	During conditions of extreme fire danger, operations shall be limited or suspended in specific areas, or additional measures may be required by the authorized officer.
gg.	When requested by the authorized officer, the holder shall make his/her equipment already at the site with operators, temporarily available for fighting fires in the vicinity of the project. Payment for such services will be made at rates determined by the authorized officer.
Hazardous Materials and Petroleum Products	
hh.	The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this grant. (See 40 CFR, Part 702-799 and especially,

	provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
ii.	The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901 at ag.) on the right-of-way (unless the release or threatened release is wholly unrelated to the holder's activity on the right-of-way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
jj.	The holder is prohibited from discharging oil or other pollutants into or upon the navigable waters of the United States, adjoining shorelines, or the waters of the contiguous zone in violation of Section 311 of the Clean Water Act as amended, 33 U.S.C. 1321, and the regulations issued thereunder, or applicable laws of the State of Nevada and regulations issued thereunder. The holder shall give immediate notice of any such discharge to the authorized officer and such other Federal and State officials as are required by law to be given such notice.
Termination	
kk.	Six months prior to termination of the grant, the holder shall contact the authorized officer to arrange a joint inspection of the right-of-way. This inspection will be held to agree to an acceptable termination and rehabilitation plan. This plan shall include, but is not limited to, removal of facilities, drainage structures, or surface material, recontouring, topsoiling, or seeding. The authorized officer must approve the plan in writing prior to the holder's commencement of any termination activities. The holder shall be responsible for the cost and implementation of the approved rehabilitation plan.
Conveyance Out of Federal Ownership	
ll.	In the event that the public land underlying the right-of-way encompassed in this grant, or portion thereof, is conveyed out of Federal ownership and administration of the right-of-way or the land underlying the right-of-way is not being reserved to the United States in the patent/deed and/or the right-of-way is not within a right-of-way corridor being reserved to the United States in the patent/deed, the United States waives any right it has to administer the right-of-way, or portion thereof, within the conveyed land under Federal laws, statutes, and regulations, including the regulations in Title 43 CFR parts 2800 and 2880, as well as any rights to have the holder apply to the BLM for amendments, modifications, or assignments and for the BLM to approve or recognize such amendments, modifications, or assignments. At the time of conveyance, the patentee/grantee, and their successors and assigns, shall succeed to the interests of the United States in all matters relating to the right-of-way, or portion thereof, within the conveyed land and shall be subject to applicable State and local government laws, statutes, and ordinances. After conveyance, any disputes concerning compliance with

	the use and the terms and conditions of the right-of-way shall be considered a civil matter between the patentee/grantee and the holder.
Air Quality	
mm.	The holder shall meet Federal, State, and local emission standards for air quality.
Noxious Weeds and Pests	
nn.	The holder shall be responsible for controlling noxious and invasive weed infestations within the approved limits of the right-of-way and areas where infestations have spread from the right-of-way as a result of the holder's operations. The holder will consult with the authorized officer for planning acceptable weed control measures on all noxious and invasive weed infestations directly associated with the right-of-way.
oo.	The holder shall monitor the right-of-way at least annually during the growing season for the presence of noxious weed species listed on the Nevada Department of Agriculture <u>Nevada Noxious Weed List</u> . The holder shall maintain a record of monitoring dates, person/s completing the monitoring, qualifications of person/s completing the monitoring, species found, and the extent of infestations, e.g. number of plants found, acres of land that are infested, etc. If requested, the holder shall provide the above described monitoring data to the authorized officer annually or as specified by the authorized officer.
pp.	As soon as practicable after discovery of a noxious weed infestation, the holder shall report the infestation to the authorized officer by telephone. The holder shall develop and implement, as approved by the authorized officer, a noxious weed management plan to control the infestation through treatment (manual, mechanical, biological, chemical, prescribed fire, or other approved methods) and monitoring.
qq.	If vehicles and equipment are working in known noxious weed infestations, equipment will be washed prior to entering the project area to remove noxious weed propagules.
rr.	All equipment to be used in connection with this project during construction, operations, maintenance, and/or reclamation will first be cleaned thoroughly to minimize the introduction of new noxious weed species to the area. The holder shall provide written documentation of when and how equipment was cleaned at the request of the authorized officer.
ss.	In locations with known noxious weed infestations, all vehicles and equipment performing surface disturbing activities in connection with the right-of-way shall be thoroughly cleaned to reduce the spread of noxious weed species outside the right-of-way. The holder shall set up a cleaning station within the right-of-way in a location approved by the authorized officer. The holder shall provide written documentation of when and how equipment was cleaned at the request of the authorized officer.
tt.	All seed, hay, straw, gravel, or other earth materials used on the right-of-way shall be certified as noxious weed-free by the Nevada Department of Agriculture or equivalent state agency prior to being used on the right-of-way. The holder will provide documentation of noxious weed-free certification at the request of the authorized officer. If such certification cannot be obtained, the holder will consult with the authorized officer and obtain written approval of acceptable weed monitoring measures prior to using the materials on the right-of-way.
Pesticide or Biological Control Agent Use	

uu.	The use of pesticides shall comply with Federal and state laws governing their proper usage, storage and disposal, and any limitations imposed by the Secretary of the Interior. Prior to the use of pesticides or biological control agents, the holder will obtain from the authorized officer written approval of a Pesticide Use Proposal/Plan (PUP) or Biological Control Agent Use Proposal/Plan (BCUP) showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposed-of containers, and any other information deemed necessary by the authorized officer. Emergency use of pesticides shall be approved in writing by the authorized officer prior to such use and shall use BLM-approved mechanical methods or chemicals.
Cultural Resources	
vv.	The holder and persons working on their behalf shall not collect any historic (50 years or older) or prehistoric artifacts from federal lands. Collection of artifacts is a misdemeanor or felony under multiple federal laws, including the Archaeological Resources Protection Act of 1990 (16 U.S.C. 470aa-470mm; Public Law 96-95).
ww.	<p>The holder, or persons working on their behalf, shall immediately report to the authorized officer any cultural (historic or prehistoric site or object) or paleontological (fossil) resources discovered during the course of activities on federal land. The discovery shall be reported to the authorized officer's designated representative by telephone, followed by written confirmation sent to the address listed above. The holder shall stop all surface disturbing activities in the immediate area (minimum 100-foot radius) of such discovery and protect it until an evaluation of the discovery can be made by the authorized officer. In addition, the following shall occur:</p> <ul style="list-style-type: none"> • For discoveries of cultural resources other than human remains, the authorized officer will determine the significance of the discovery and what mitigation measures are necessary to comply with applicable laws. The authorized officer will notify the holder in writing when surface disturbing activities may resume. • For discoveries involving human remains, the holder or their representative shall stop all work within a 100-foot radius, then immediately notify the authorized officer's designated representative <u>and</u> the County Coroner by telephone, followed by written notification to the BLM. The holder must cover and protect the discovery location from photography; viewing by employees, contractors, the media, and the public; and further disturbance until the authorized officer notifies the holder in writing that work may resume. <p>The holder is responsible for the cost of protection, evaluation, and mitigation. Any decision on treatment and/or mitigation of discoveries will be made by the authorized officer after consulting with the holder and other parties, including Native American tribes, as required by law.</p>
xx.	The holder, their contractors, and any persons working on the holder's behalf shall not contact or provide information to the media about discoveries, shall not post pictures or information about discoveries via corporate or personal social media, and shall not take, or allow to be taken, any photographs other than those required to respond to the

	discovery (such as by law enforcement or the authorized officer's designated representative).
Cadastral Survey and Land Status	
yy.	The holder shall protect all survey monuments found within the right-of-way. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, U.S. Coastal and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any of the above, the holder shall immediately report the incident, in writing, to the authorized officer and the respective installing authority if known. Where General Land Office or Bureau of Land Management right-of-way monuments or references are obliterated during operations, the holder shall secure the services of a registered land surveyor or a Bureau cadastral surveyor to restore the disturbed monuments and references using surveying procedures found in the <u>Manual of Surveying Instructions for the Survey of the Public Lands in the United States</u> , latest edition. The holder shall record such survey in the appropriate county and send a copy to the Authorized Officer. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monument, the holder shall be responsible for the survey cost.
Wildlife – General	
zz.	The holder shall notify the authorized officer and the Nevada Department of Wildlife within 24 hours of any injuries and/or mortalities of special status wildlife within the right-of-way during construction, operation, maintenance, or reclamation /decommissioning activities.
aaa.	The holder shall remove only the minimum amount of vegetation necessary for the construction or maintenance of facilities. Topsoil shall be conserved during excavation and reused as cover on disturbed areas to facilitate regrowth of vegetation.
bbb.	Construction holes left open overnight shall be covered. Covers shall be secured in place and shall be strong enough to prevent livestock or wildlife from falling into the hole or trench. If adequate cover cannot be installed, effective escape ramps shall be installed to allow livestock or wildlife to avoid entrapment.
ccc.	All mammals, reptiles, and amphibians shall be removed from construction holes or trenches prior to backfilling.
ddd.	Open-top vertical pipes, including vents, stacks, fence posts, and survey markers, of any diameter, shall be securely capped or screened to prevent unintentional trapping of wildlife.
eee.	Artificial facility lighting shall be shielded to direct light towards the ground within the approved facility boundary.
fff.	All guy wires shall be effectively marked to be visible to birds, wild horses and burros, and big game animals.
ggg.	Fences, gates, brace panels, and cattleguards affected by the holder's use of the right-of-way shall be reconstructed to appropriate standards and/or specifications as determined by the authorized officer.
hhh.	Fences, gates, brace panels, and cattleguards affected by the holder's use of the right-of-way shall be re-constructed to appropriate BLM standards and/or specifications as

	determined by the authorized officer. The holder shall use the wire spacing standard shown in Illustration 2 of BLM Handbook H-1741-1 (Fencing) for "Combination of Cattle (Requiring Greater Restriction of Livestock Movements) With Deer, Elk, Moose, or Antelope" when constructing or re-constructing fences which control the movement of livestock. The holder shall disconnect fence wires from all fence posts between bracing structures prior to stretching wires to ensure adequate tensioning. When re-constructing or modifying wire fences, the holder shall repair or replace bracing structures to ensure the integrity of the fence.	
Wildlife – Migratory Birds and Raptors		
iii.	The holder shall report observed raptor or other bird nests on existing facilities to the authorized officer as soon as practicable. The holder may be directed by the authorized officer to remove nests from facilities (e.g. power lines, communications towers, buildings, etc.) outside of nesting seasons.	
Visual Resource Management		
jjj.	Colors on all above-ground structures not subject to safety requirements, such as buildings, antennas, towers, and microwave dishes, shall be earth/vegetative tones compatible with existing natural site features and complementary colors. The holder shall use Standard Environmental Color Chart CC-001 (June 2013 or most recent edition) to obtain paint colors to use on the right-of-way. Copies of Standard Environmental Color Chart CC-001 may be obtained from the BLM at the address listed above. The holder shall not use Carlsbad Canyon, Juniper Green, or Carob Brown without prior written authorization from the authorized officer.	
kkk.	Paint colors shall not be more glossy than a semi-gloss finish. Paint colors that have faded from sun exposure shall be repainted to restore the approved color from Standard Environmental Color Chart CC-001.	
lll.	Structures which cannot be painted or require a non-compatible color to operate in accordance with manufacturer specifications shall be immediately reported to the authorized officer. The authorized officer will work with the holder to establish alternate means of reducing the visual impact, such as constructing a screening fence to block the view or installing a cover. Alternative means to reduce visual impacts shall be approved by the BLM prior to use on the right-of-way.	
Soil		
mmm.	No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil shall be deemed too wet to adequately support construction equipment.	
nnn.	Earthwork and grading, including road surfacing, drainage structures, and ditch profiles, shall not block natural drainage systems nor change the character of natural drainage systems. Earthwork, grading, erosion control structures (e.g. culvert pipes, wing ditches, etc.), and stream crossings, including crossings with either perennial or intermittent flows, shall not cause excessive siltation that damages fish and/or wildlife habitat in waterways or water bodies.	