

C:\Users\Owner\OneDrive - Peak Flow Consulting\Projects\4200 (Grizzly Flats)\4200-014\CAD\Engineering\Improvement Plans\4200-014 SHEETS.dwg, C1-COVER SHEET, 02/09/2026 04:07 pm Owner



**LOCATION MAP**  
N.T.S.

**SHEET INDEX**

- C1 - COVER SHEET
- C2 - NOTES ABV LEGEND
- C3 - OVERALL SITE PLAN
- C4 - EX CONDITIONS, DEMO, & EROSION CONTROL
- C5 - SITE & GRADING PLAN
- C6 - DETAILS

**SURVERY CONTROL**

BOUNDARIES, EASEMENTS, AND OTHER ENCUMBRANCES SHOWN ON THIS DRAWING ARE BASED SOLELY UPON INFORMATION CONTAINED IN THE TRACT MAP NAMED "GRIZZLY PARK ESTATES- UNIT NO 1" AND FILED FOR RECORD ON JULY 11, 1979 ON AP BOOK F AT PAGE 101 OF THE EL DORADO COUNTY RECORDS. FEMA BASE FLOOD ELEVATIONS ARE BASED ON NAVD88 DATUM.

MULTIPLE DISTANCES BY 0.99975196 TO OBTAIN GROUND LEVEL DISTANCES.

**BASIS OF BEARING**

N 81°47'15" W - AS TAKEN BETWEEN GPS CONTROL POINT "11" AND GPS CONTROL POINT "13" AS SHOWN ON RECORD OF SURVEY, FILED FOR RECORD ON SEPTEMBER 12, 2022 AS DOCUMENT NUMBER 2022-0036695 OF THE EL DORADO COUNTY RECORDS.

ALL COORDINATES PROVIDED ARE STATE PLANE COORDINATES BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 2, EPOCH DATE 2010.00.

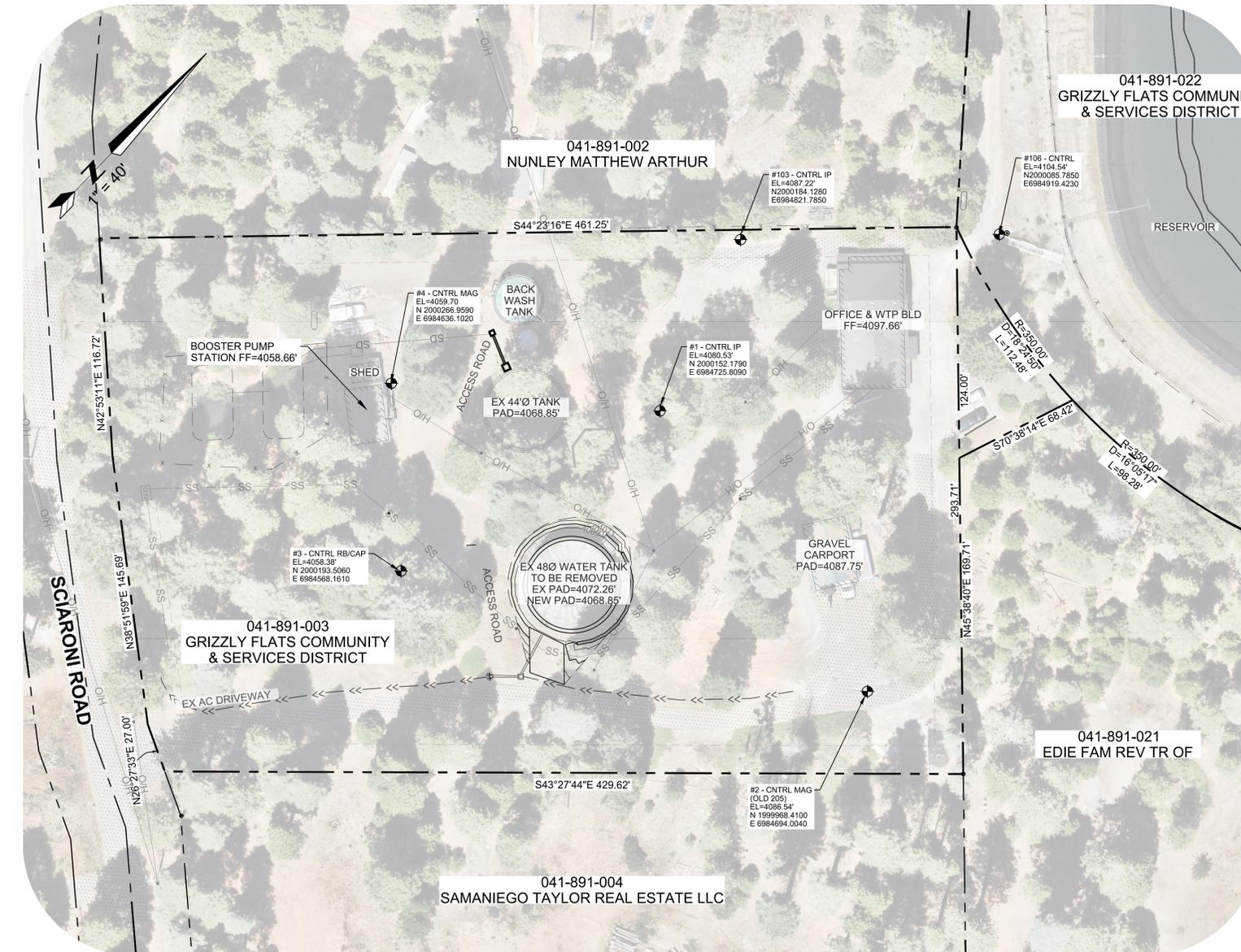
MULTIPLE DISTANCES BY 0.99975196 TO OBTAIN GROUND LEVEL DISTANCES.

**DATUM**

VERTICAL DATUM FOR THIS PROJECT IS NAVD 88 (GEOID18).

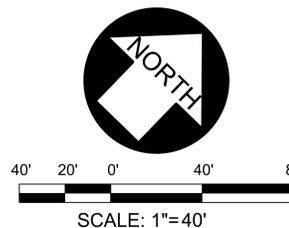
BENCH MARK - RECORD OF SURVEY CONTROL POINT #13, IRON PIPE W/ REY CONTROL CAP, ELEVATION = 4107.08

CONTOUR INTERVALS VARY AND ARE AS NOTED ON THE INDIVIDUAL PLANS.

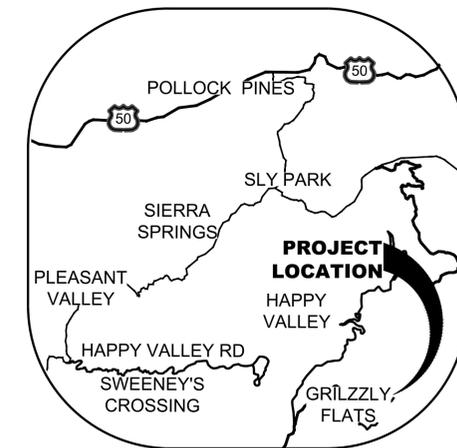


**PROJECT AREA**

SCALE: 1" = 40'



IMPROVEMENT PLANS FOR  
**CLEARWELL STORAGE TANK REPLACEMENT**  
FOR  
**GRIZZLY FLATS COMMUNITY & SERVICES DISTRICT**  
**GRIZZLY FLATS, CALIFORNIA**



**VICINITY MAP**  
N.T.S.

**PROJECT SUMMARY**

OWNER: GRIZZLY FLATS COMMUNITY & SERVICES DISTRICT  
ADDRESS: 4765 SCIARONI ROAD, GRIZZLY FLATS, CA 95636  
ENGINEER: SHORELINE ENVIRONMENTAL ENGINEERING  
ADDRESS: 4122 CAMERON PARK DRIVE SUITE 100 CAMERON PARK, CA 95682  
CONTRACTOR: TBD

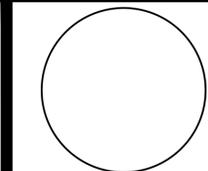
**APPROVALS**

**H2O URBAN SOLUTIONS, INC.**

APPROVED BY: C 51055 9/30/2027  
SCOTT A. MYERS, P.E. R.C.E. NO. EXP.  
DATE: \_\_\_\_\_

**GRIZZLY FLATS COMMUNITY & SERVICES DISTRICT**

APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_



**H2O**  
URBAN SOLUTIONS

GRIZZLY FLATS COMMUNITY & SERVICES DISTRICT  
**COVER SHEET**  
**CLEARWELL STORAGE TANK REPLACEMENT**  
GRIZZLY FLATS  
EL DORADO COUNTY  
CALIFORNIA

REV.	DATE	DESCRIPTION	BY

**FOR REVIEW ONLY**  
**NOT FOR CONSTRUCTION**  
**FEBRUARY 9, 2026**

0" = 1"

WARNING: ADJUST SCALE IF THIS BAR DOES NOT MEASURE 1-INCH

**C1**

CADD BY: MLO  
DESIGNED BY: H2O  
CHECKED BY: SM  
JOB NO.: 4200-014  
SHEETS: C1 OF 6

C:\Users\Owner\OneDrive - Peak Flow Consulting\Projects\4200 (Gr-CSD)\4200-014\CAD\Engineering\Improvement Plans\4200-014 SHEETS.dwg 02-NOTES.AVY LEGEND

## LEGEND & SYMBOLOGY

EDGE OF PAVEMENT	FIRE HYDRANT
FENCE LINE	FIRE DEPARTMENT CONNECTION
CONTOURS EXISTING	POST INDICATOR VALVE
CONTOURS PROPOSED	WATER VALVE
BOUNDRY	WATER METER
COMPRESSED AIR	WATER SPOCKET / HOSE BIB
LP GAS	WATER VAULT
O/H ELECTRIC	SANITARY SEWER MANHOLE
U/G ELECTRIC	SANITARY SEWER CLEANOUT
SANITARY SEWER	TELEPHONE BOX
WATER LINE (VARIES)	TELEPHONE VAULT
BACKWASH RECOVERY	TREE
BACKWASH SUPPLY	UTILITY POLE
RAW WATER (NON POTABLE)	GUY WIRE
EX STORM DRAIN	ELECTRIC TRANSFORMER
C STORM DRAIN	ELECTRIC VAULT
SANITARY SEWER	ELECTRIC GENERATOR
WATER LINE (VARIES)	LIGHT
RECLAIMED WATER	BOLLARD
AC PAVING	
CONCRETE	
DIRT	

## ABBREVIATIONS

AB	AGGREGATE BASE	HORZ	HORIZONTAL
AC	ASBESTOS CONCRETE	IE	INVERT ELEVATION
AVE	AVENUE	LF	LINEAR FEET
BLVD	BOULEVARD	MAX	MAXIMUM
BMP	BEST MANAGEMENT PRACTICE	MIN	MINIMUM
CAL AM	CALIFORNIA AMERICAN WATER	MIP	MALE IRON PIPE
CE	CONCRETE EDGE	MJ	MECHANICAL JOINT
CPLG	COUPLING	NTS	NOT TO SCALE
DIA	DIAMETER	PCC	PORTLAND CONCRETE CEMENT
DIP	DUCTILE IRON PIPE	PG&E	PACIFIC GAS AND ELECTRIC
DR	DRIVE	PSF	POUNDS PER SQUARE FOOT
DWY	DRIVEWAY	PSI	POUNDS PER SQUARE INCH
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EX	EXISTING	SD	STORM DRAIN
FCA	FLANGE COUPLING ADAPTOR	SS	SANITARY SEWER
FIP	FEMALE IRON PIPE	STA	STATION
FLG	FLANGE	TBC	TOP BACK OF CURB
FT	FEET	TBW	TOP BACK OF WALK
GV	GATE VALVE	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	W	WATER

## PROJECT NOTES

### GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- THE CONTRACTOR SHALL REFER TO THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, AS ADOPTED BY THE PERMITTING ENTITY, FOR ALL DETAILING NOT SHOWN ON THESE PLANS.
- CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND CURRENT NDOT or CALTRANS STANDARD PLANS/SPECIFICATIONS (STANDARD SPECIFICATIONS) AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING A PRE-CONSTRUCTION JOB SITE CONFERENCE WITH GOVERNING AGENCIES, ALL UTILITY COMPANIES, OWNER'S REPRESENTATIVES, AND THE PROJECT ENGINEER PRIOR TO COMMENCING WORK. THIS MEETING SHALL BE HELD AT LEAST FORTY-EIGHT (48) HOURS, OR TWO (2) BUSINESS DAYS, PRIOR TO THE START OF CONSTRUCTION AND SHALL COMMUNICATE SCHEDULES, CONTRACTORS MEAN AND METHODS, MATERIALS TO BE USED, AND OTHER RELEVANT MATTERS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT.
- ALL WORK EITHER DIRECTLY OR INDIRECTLY RELATED TO THE PROJECT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY SYSTEM MANAGER.
- THE CONTRACTOR SHALL MAINTAIN AN ONSITE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, WORK CHANGE DIRECTIVES, FIELD ORDERS, FIELD CHANGES, AND WRITTEN INTERPRETATIONS AND CLARIFICATIONS. RECORDS SHALL BE IN GOOD ORDER AND ANNOTATED TO SHOW CHANGES MADE DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT SUBMITTALS AND/OR SHOP DRAWINGS TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO ORDERING OR INSTALLATION. A SIGNED SET OF REVIEWED SUBMITTALS MUST ALWAYS BE AVAILABLE ONSITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1-800-642-2444 TO PROVIDE FIELD LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED POINTS OF CONNECTION AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION PRIOR TO BEGINNING CONSTRUCTION. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROCURE ALL NECESSARY PERMITS, LICENSES, INSURANCE POLICIES, ETC. AS MAY BE NECESSARY TO COMPLY WITH LOCAL, COUNTY, STATE, AND FEDERAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK; UNLESS OTHERWISE OBTAINED BY THE OWNER.
- THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY. ALL TRAFFIC CONTROL OPERATIONS SHALL COMPLY WITH THE LATEST MUTCD. AT NO TIME WILL OBSTRUCTIONS BE LEFT IN THE ROADWAY DURING NIGHT HOURS. ALL TRAFFIC CONTROL PLANS SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER OR ATSA CERTIFIED PERSONNEL.
- THE CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTROL AND THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND NRS CHAPTER 618.
- THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. THE CONTRACTOR SHALL MAINTAIN DEBRIS FREE CONSTRUCTION ROUTES, ADJACENT STREETS AND STORM DRAIN SYSTEMS.
- TEMPORARY CONSTRUCTION FENCING SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT IN AREAS AS DELINEATED ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER. THE TEMPORARY FENCING SHALL PREVENT CHILDREN AND PETS FROM ENTERING THE CONSTRUCTION AREA, CREATE A VISUAL BARRIER OF THE CONSTRUCTION ACTIVITIES FROM THE ADJACENT RESIDENCE AND YARDS, AND PROTECT VEGETATION FROM CONSTRUCTION EQUIPMENT.
- THE CONTRACTOR SHALL USE ONLY AUTHORIZED SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AND OBTAIN PROPER APPROVALS FROM THE LAND OWNER AND LOCAL GOVERNING AUTHORITY TO DO SO. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. IN THE EVENT A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL HAVE THE MONUMENT REPLACED, AT HIS OWN EXPENSE, BY A LICENSED SURVEYOR IN THE STATE OF THE PROJECT SITE.
- CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 7:00 AM AND 6:00 PM UNLESS OTHERWISE DICTATED BY LOCAL ORDINANCE. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROJECT ENGINEER TO MODIFY WORK HOURS.
- ALL FIELD CHANGES MUST BE PRE-APPROVED BY THE PROJECT ENGINEER.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- ALL SALVAGED MATERIALS ARE THE PROPERTY OF THE OWNER AND SHALL BE PALLETIZED ONSITE UNLESS OTHERWISE ARRANGED WITH THE OWNER AND/OR PROJECT ENGINEER.
- THE OWNER IS RESPONSIBLE FOR FURNISHING QUALIFIED SITE INSPECTIONS AS REQUIRED TO COMPLY WITH LOCAL ORDINANCES.

- ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT OF WAY AND PUBLIC EASEMENTS SHALL BE RESTORED IN KIND TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE SHOWN. ALL SURFACE IMPROVEMENTS INCLUDING PAVEMENT, SIDEWALK, CURB, GUTTER, LANDSCAPING, AND APPURTENANCES SHALL BE REPLACED OR RECONSTRUCTED TO THE STANDARDS OF THE GOVERNING AGENCY. FOR WORK IN COUNTY ROADS, USE SANTA CLARA COUNTY ROADS & AIRPORTS STANDARD PLANS AND SPECIFICATIONS.
- PAVEMENT RESTORATION SHALL CONFORM TO SANTA CLARA COUNTY ROADS & AIRPORTS STANDARD PLANS AND SPECIFICATIONS, INCLUDING TRENCH EXCAVATION AND BACKFILL REQUIREMENTS. TEMPORARY TRENCH PAVING SHALL BE PLACED THE SAME WORKING DAY FOR ANY TRENCHES WITHIN ACTIVE TRAFFIC LANES AND MAINTAINED UNTIL FINAL PAVEMENT IS INSTALLED.
- ALL STRIPING, MARKINGS, SIGNS, AND TRAFFIC DEVICES REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND PER THE GOVERNING AGENCY STANDARDS.
- REFERENCE DRAWINGS MAY BE OUTDATED. CONTRACTOR SHALL OBTAIN AND USE THE LATEST CAW STANDARD DETAILS AND MOST CURRENT GOVERNING AGENCY STANDARD DETAILS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING IMPROVEMENTS. ANY IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE GOVERNING AGENCY.
- CONTRACTOR SHALL LIMIT ALL OPERATIONS TO THE PUBLIC RIGHT OF WAY, PUBLIC EASEMENTS, AND DESIGNATED WORK AREAS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE OUTSIDE THE DESIGNATED WORK LIMITS.

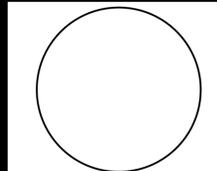
### UNDERGROUND UTILITIES

- THE CONTRACTOR SHALL FIELD VERIFY UTILITY LOCATIONS NEAR OR WITHIN THE CONSTRUCTION LIMITS WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR THE NECESSARY RELOCATION OF ANY UTILITY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK.
- NO OTHER UTILITIES MAY BE PLACED IN A WATER OR SEWER TRENCH.

- ALL VALVE BOXES, MANHOLE STRUCTURES, AND CLEAN OUTS SHALL BE MARKED AND ACCESSIBLE AT ALL TIMES.
- CONTRACTOR SHALL SUPPORT TRENCH SIDEWALLS IN ACCORDANCE WITH ALL APPLICABLE LAWS AND GOVERNING SAFETY REGULATIONS. SHEETING OR SHORING SHALL CONFORM TO LOCAL REGULATIONS AND OSHA STANDARDS.
- ENDS OF UNFINISHED PIPE SHALL BE SEALED AT THE END OF EACH DAY.
- PIPE SHALL BE LAID IN THE UPHILL DIRECTION, WITH BELL ENDS UPHILL.
- THE CONTRACTOR SHALL COORDINATE ALL WATER MAIN SHUT DOWNS AND TIE-INS WITH THE WATER UTILITY A MINIMUM OF FORTY-EIGHT (48) HOURS OR TWO (2) BUSINESS DAYS IN ADVANCE.
- ALL UNDERGROUND VALVES, TEES, FITTINGS, ETC. LARGER THAN 2" SHALL BE COATED TO PROTECT AGAINST CORROSION.
- ALL WATER PROJECT MATERIAL (PIPES, VALVES, LATERALS AND APPURTENANCES) SHALL BE LEAD FREE AND MEET THE MINIMUM REQUIREMENTS OF THE NEVADA ADMINISTRATIVE CODE AND NSF/ANSI 61.
- ALL THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACK-FILL.
- ALL BOLTS AT THRUST BLOCKS AND VALVE SADDLES SHALL BE COVERED WITH VISQUEEN AND TAPED PRIOR TO CONCRETE PLACEMENT.
- THE WATER MAINS SHALL NOT BE PLACED INTO SERVICE UNTIL:
  - THE WATER MAIN HAS BEEN DISINFECTED IN ACCORDANCE WITH AWWA, NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION (NDEP), THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS STANDARDS.
  - THE DISPOSAL OF ANY SPENT CHLORINE SOLUTIONS MUST BE COORDINATED WITH NDEP'S BUREAU OF WATER POLLUTION CONTROL.
  - ANALYSIS OF THE WATER MAIN WHICH INDICATE THAT THE WATER MEETS PRIMARY DRINKING WATER STANDARDS FOR COLIFORM BACTERIA (ABSENT FOR COLIFORM BACTERIA) HAVE BEEN OBTAINED AND REPORTED TO NDEP'S BUREAU OF SAFE DRINKING WATER. SAMPLING SHALL BE IN ACCORDANCE WITH NDEP REGULATIONS.
- PVC PIPE SHALL BE TESTED PER AWWA C605 AND DUCTILE IRON PIPE SHALL BE TESTED FOR AWWA C600. OTHER MATERIALS SHALL BE TESTED PER REQUIREMENTS IN THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION SECTION 336.
- CONTRACTOR SHALL CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER THRUST BLOCKS HAVE HARDENED SUFFICIENTLY. FILL PIPELINE 24 HOURS BEFORE TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.
- CONTRACTOR SHALL PERFORM PLASTIC PIPE BALL AND MANDREL TEST ON NEWLY INSTALLED SEWER PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- CONTRACTOR SHALL PERFORM AIR PRESSURE TESTING ON NEWLY INSTALLED SEWER PIPE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN QUANTITY TAKE-OFF AND SHALL BUDGET THE PROJECT ACCORDINGLY. ALL EXCESS GRADING MATERIALS SHALL BE DISPOSED OF OFFSITE.
- ALL EARTHWORK ACTIVITIES SHALL BE IN ACCORDANCE WITH THE PROJECT'S GEOTECHNICAL REPORT.
- THE SOILS ENGINEER SHALL APPROVE ALL EARTHWORK AND GRADING TO CONFIRM COMPACTION REQUIREMENTS ARE MET.
- CONTRACTOR SHALL PROTECT EXISTING PAVING, CONCRETE, LANDSCAPING, FENCING, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS NOT SPECIFICALLY CALLED OUT FOR REPLACEMENT. CONTRACTOR SHALL REPAIR/REPLACE ANYTHING DAMAGED BY FORCES UNDER THEIR EMPLOY OR CONTRACT.
- ALL ASPHALT CONCRETE SURFACES SHALL BE SAWCUT THREE FEET MINIMUM INSIDE THE EDGE OF PAVEMENT TO A NEAT, STRAIGHT LINE AND REMOVED. THE EXPOSED PAVEMENT TIE-IN EDGES SHALL BE METICULOUSLY CLEANED OF ALL LOOSE MATERIAL AND THEN TREATED WITH BITUMINOUS EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIALS SHALL BE GRADED AND RECOMPACTED PRIOR TO PAVING.

### ENVIRONMENTAL

- ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AND MAINTAINING A SWPPP.
- INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION AND SILTATION FROM ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES, AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE INTENDED AS A GUIDE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED IN THE FIELD. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP UPDATES.
- THE CONTRACTOR SHALL MAINTAIN AN ON-GOING DUST CONTROL PROGRAM INCLUDING WATERING OF OPEN AREAS, TO CONFORM WITH THE LATEST FEDERAL, STATE, AND COUNTY AIR POLLUTION REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND UPDATING DUST CONTROL PERMITS FOR THE PROJECT.
- ALL AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE STABILIZED BY THE APPLICATION OF AN APPROVED DUST PALLIATIVE OR HYDROMULCH.
- THE CONTRACTOR SHALL IDENTIFY A STANDBY CREW FOR EMERGENCY WORK AND THEY SHALL BE AVAILABLE AT ALL TIMES. MATERIAL NECESSARY TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR DAMAGED EROSION CONTROL MEASURES SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT APPROVED LOCATIONS.
- PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SHALL BE USED TO PROTECT ADJOINING PROPERTIES DURING CONSTRUCTION OF IMPROVEMENTS.
- AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING FACILITIES. GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING THE RAINSTORM SHALL ALSO BE REPAIRED.
- FILL SLOPES AT THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE END OF EACH WORKING DAY.
- ALL DISTURBED AREAS ARE REQUIRED TO HAVE A PALLIATIVE APPLIED FOR DUST CONTROL. ALL GRADING SHALL COMPLY WITH STATE AND COUNTY REGULATIONS.
- A SIX-FOOT HIGH PERIMETER FENCE OR A 24-HOUR GUARD SHALL BE POSTED ON THE SITE WHENEVER THE DEPTH OF WATER IN A FACILITY EXCEEDS 18".
- ALL AREAS DISTURBED BECAUSE OF THE WORK SHALL BE REVEGETATED IN ACCORDANCE WITH INDUSTRY BEST MANAGEMENT PRACTICES.
- NO CONSTRUCTION MATERIALS SHALL BE STORED IN A STREAM ENVIRONMENT ZONES (SEZ) AT ANY TIME.
- IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY, PREPARE A DEWATERING PLAN, AND OBTAIN APPROVAL FROM THE PROJECT ENGINEER BEFORE PROCEEDING WITH WORK. DEWATERING ACTIVITIES MAY REQUIRE THE CONTRACTOR TO OBTAIN A DISCHARGE/PUMPING PERMIT FROM THE STATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH PERMITS.
- ALL STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS.



**H2O**  
URBAN SOLUTIONS

GRIZZLY FLATS COMMUNITY & SERVICES DISTRICT

**NOTES ABV LEGEND**

**CLEARWELL STORAGE TANK REPLACEMENT**

GRIZZLY FLATS

EL DORADO COUNTY

CALIFORNIA

REV	DATE	DESCRIPTION	BY

0" 1"

WARNING: ADJUST SCALE IF THIS BAR DOES NOT MEASURE 1-INCH

**C2**

CADD BY: MLO  
 DESIGNED BY: H2O  
 CHECKED BY: SM  
 JOB NO.: 4200-014  
 SHEETS: C2 OF 6

**FOR REVIEW ONLY**  
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**FEBRUARY 9, 2026**



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### LEGEND & SYMBOLOGY

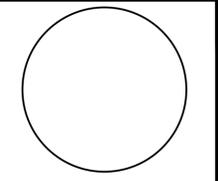
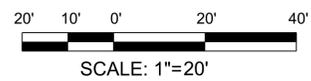
---	EDGE OF PAVEMENT	⊗	FIRE HYDRANT
- - -	FENCE LINE	⊗	FIRE DEPARTMENT CONNECTION
---	CONTOURS EXISTING	⊗	POST INDICATOR VALVE
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---	SANITARY SEWER	⊗	TELEPHONE BOX
---	WATER LINE (VARIES)	⊗	TELEPHONE VAULT
---	BACKWASH RECOVERY	⊗	TREE
---	BACKWASH SUPPLY	⊗	UTILITY POLE
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---	EX STORM DRAIN	⊗	ELECTRIC TRANSFORMER
---	C STORM DRAIN	⊗	ELECTRIC VAULT
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---	WATER LINE (VARIES)	⊗	LIGHT
---	RECLAIMED WATER	⊗	BOLLARD

### ABBREVIATIONS

AB	AGGREGATE BASE	HORZ	HORIZONTAL
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DIP	DUCTILE IRON PIPE	PG&E	PACIFIC GAS AND ELECTRIC
DR	DRIVE	PSF	POUNDS PER SQUARE FOOT
DWY	DRIVEWAY	PSI	POUNDS PER SQUARE INCH
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EX	EXISTING	SD	STORM DRAIN
FCA	FLANGE COUPLING ADAPTOR	SS	SANITARY SEWER
FIP	FEMALE IRON PIPE	STA	STATION
FLG	FLANGE	TBC	TOP BACK OF CURB
FT	FEET	TBW	TOP BACK OF WALK
GV	GATE VALVE	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	W	WATER

## EX CONDITIONS, DEMO, & EROSION CONTROL PLAN

SCALE: 1" = 30'



**H2O**  
URBAN SOLUTIONS

GRIZZLY FLATS COMMUNITY & SERVICES DISTRICT

# EX CONDITIONS, DEMO, & EROSION CONTROL CLEARWELL STORAGE TANK REPLACEMENT

GRIZZLY FLATS EL DORADO COUNTY CALIFORNIA

REV. DATE	DESCRIPTION	BY

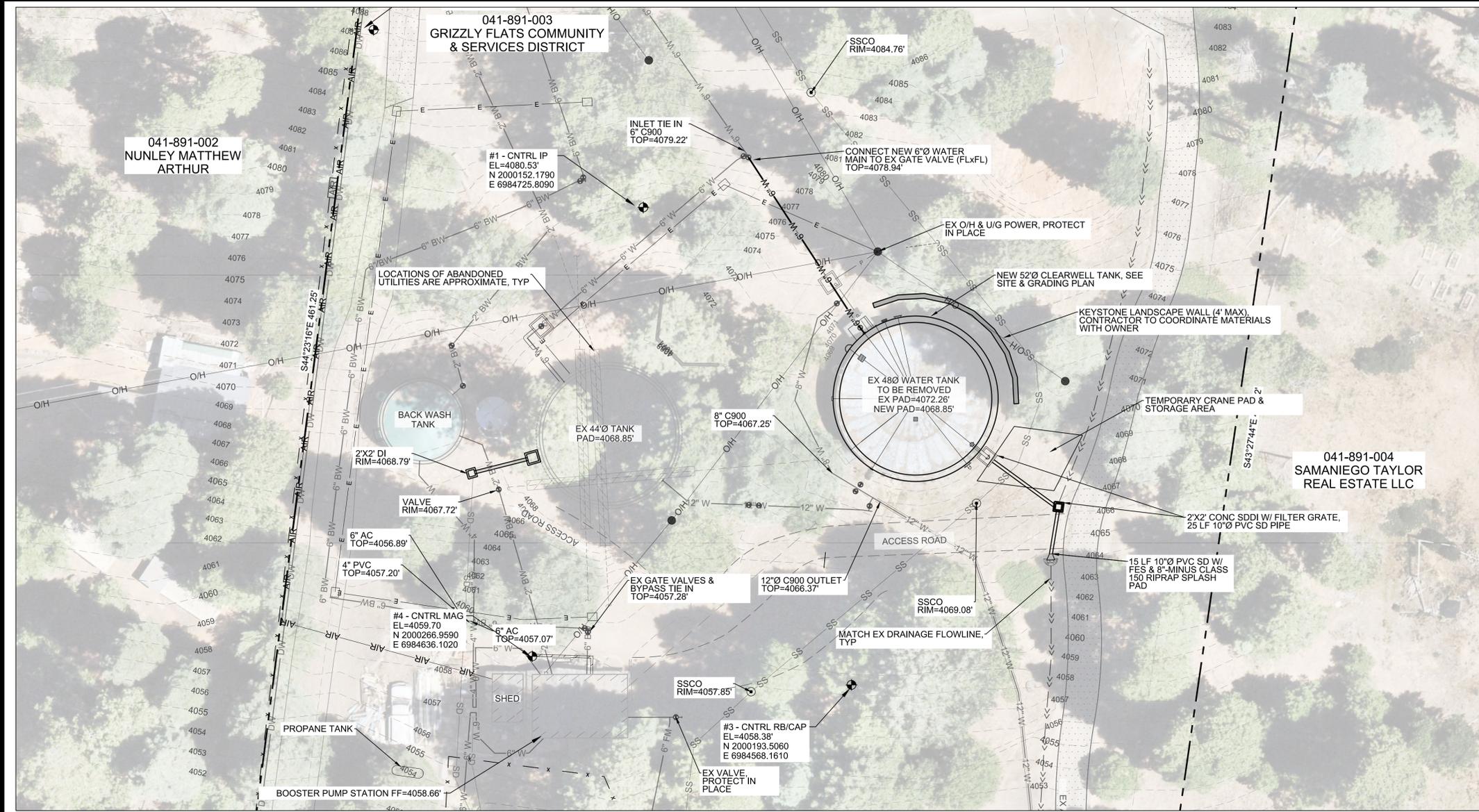
**FOR REVIEW ONLY  
NOT FOR CONSTRUCTION  
FEBRUARY 9, 2026**

0" = 1"  
WARNING: ADJUST SCALE IF THIS BAR DOES NOT MEASURE 1-INCH

**C4**

CADD BY: MLO  
DESIGNED BY: H2O  
CHECKED BY: SM  
JOB NO.: 4200-014  
SHEETS: C4 OF ##

C:\Users\Owner\OneDrive - Peak Flow Consulting\Projects\4200 (Grizzly Flats)\2024\04\14\CAD\Engineering\Improvement Plans\2024-014 SHEETS.dwg SITE & GRADING, 02/09/2026 05:01 pm Owner



**LEGEND & SYMBOLOGY**

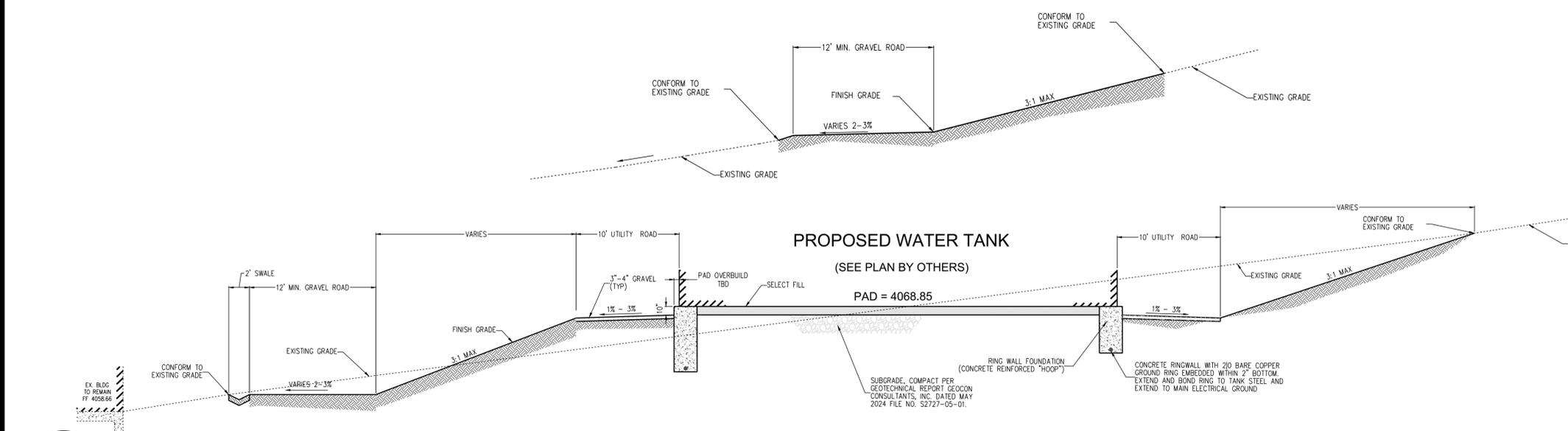
EDGE OF PAVEMENT	FIRE HYDRANT
FENCE LINE	FIRE DEPARTMENT CONNECTION
CONTOURS EXISTING	POST INDICATOR VALVE
CONTOURS PROPOSED	WATER VALVE
BOUNDARY	WATER METER
COMPRESSED AIR	WATER SPICKET / HOSE BIB
LP GAS	WATER VAULT
O/H ELECTRIC	SANITARY SEWER MANHOLE
U/G ELECTRIC	SANITARY SEWER CLEANOUT
SANITARY SEWER	TELEPHONE BOX
WATER LINE (VARIES)	TELEPHONE VAULT
BACKWASH RECOVERY	TREE
BACKWASH SUPPLY	UTILITY POLE
RAW WATER (NON POTABLE)	GUY WIRE
EX STORM DRAIN	ELECTRIC TRANSFORMER
C STORM DRAIN	ELECTRIC VAULT
SANITARY SEWER	ELECTRIC GENERATOR
WATER LINE (VARIES)	LIGHT
RECLAIMED WATER	BOLLARD

**ABBREVIATIONS**

AB	AGGREGATE BASE	HORZ	HORIZONTAL
AC	ASBESTOS CONCRETE	IE	INVERT ELEVATION
AVE	AVENUE	LF	LINEAR FEET
BLVD	BOULEVARD	MAX	MAXIMUM
BMP	BEST MANAGEMENT PRACTICE	MIN	MINIMUM
CAL AM	CALIFORNIA AMERICAN WATER	MIP	MALE IRON PIPE
CE	CONCRETE EDGE	MJ	MECHANICAL JOINT
CPLG	COUPLING	NTS	NOT TO SCALE
DIA	DIAMETER	PCC	PORTLAND CONCRETE CEMENT
DIP	DUCTILE IRON PIPE	PG&E	PACIFIC GAS AND ELECTRIC
DR	DRIVE	PSF	POUNDS PER SQUARE FOOT
DWY	DRIVEWAY	PSI	POUNDS PER SQUARE INCH
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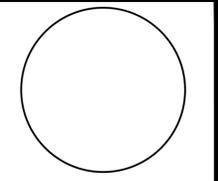
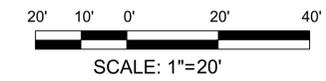
**NOTES**

- UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD. IF IT IS DETERMINED THAT REMOVED UTILITIES ARE STILL NEEDED FOR USE. DEVELOPER AND CONTRACTOR WILL RELOCATE SAID UTILITIES AS NEEDED.
- BEFORE GRADING THE TANK PAD, LOCATE EXISTING 6" BACKWASH PIPE AT POINTS SHOWN, AND REROUTE NEW PIPE PER PLAN. NEW PIPE SHALL BE PRESSURE CLASS 150, DR 18 C900 PVC. INSTALL, DISINFECT, AND TEST ALL NEW PIPE BEFORE CONNECTING TO EXISTING PIPE IN ACCORDANCE WITH DISTRICT STANDARDS. INSTALL VALVE RISERS AND BOXES PER DISTRICT STANDARDS. INSTALL THRUST BLOCKS AT ALL FITTINGS USING FAST-SETTING CONCRETE. PROVIDE ENGINEER WITH AT LEAST 3 DAYS NOTICE BEFORE CONNECTING NEW PIPE TO EXISTING PIPE. CONNECTION WORK SHALL BE PERFORMED IN ONE (1) WORKING DAY AS THE BACKWASH SYSTEM IS NEEDED TO PROVIDE WATER SERVICE FOR THE COMMUNITY. CONTRACTOR SHALL NOT START CONNECTION WORK UNTIL ENGINEER HAS VERIFIED ALL MATERIALS AND EQUIPMENT ARE ON SITE. DISINFECT MATERIALS PRIOR TO INSTALLATION.



**SITE & GRADING PLAN**

SCALE: 1" = 30'



**H2O**  
URBAN SOLUTIONS

GRIZZLY FLATS COMMUNITY & SERVICES DISTRICT

**SITE & GRADING PLAN**

**GRIZZLY FLATS CLEARWELL STORAGE TANK**

GRIZZLY FLATS

EL DORADO COUNTY

CALIFORNIA

REV	DATE	DESCRIPTION

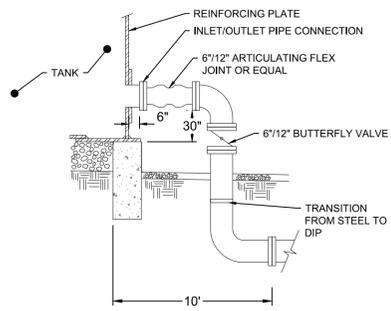
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**FEBRUARY 9, 2026**

WARNING: ADJUST SCALE IF THIS BAR DOES NOT MEASURE 1-INCH

**C5**

CADD BY: MLO  
DESIGNED BY: H2O  
CHECKED BY: SM  
JOB NO.: 4200-014  
SHEETS: C5 OF 6

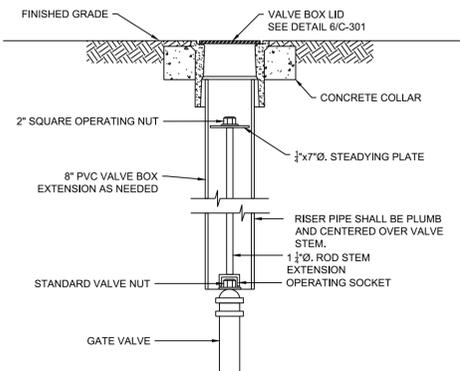




**TANK INLET/OUTLET DETAIL**

NOT TO SCALE

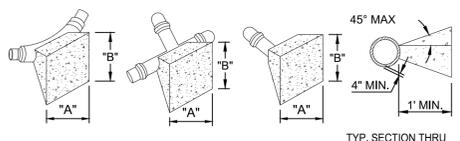
1



**VALVE EXTENSION DETAIL**

NOT TO SCALE

2



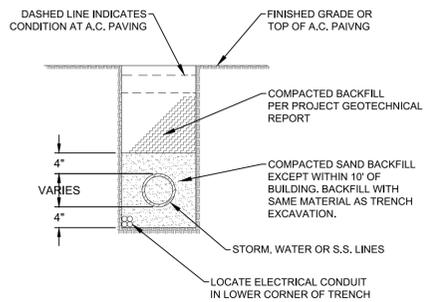
FITTINGS	THRUST BLOCK DIMENSIONS		"A"	"B"
	"A"	"B"		
6" LINE				
22 1/2	1'-6"	1'-6"	3'-0"	2'-0"
45	2'-0"	2'-0"	4'-0"	3'-0"
90	3'-0"	2'-6"	5'-6"	4'-0"
TEE OUTLET	3'-0"	2'-0"	4'-0"	4'-0"
DEAD END	3'-0"	2'-0"	4'-0"	4'-0"
8" LINE				
22 1/2	2'-0"	2'-0"	3'-0"	3'-0"
45	3'-0"	2'-6"	4'-6"	4'-0"
90	4'-0"	3'-6"	8'-0"	4'-0"
TEE OUTLET	3'-6"	3'-0"	5'-6"	4'-0"
DEAD END	3'-6"	3'-0"	5'-6"	4'-0"

- NOTES:
1. ALL THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL AND SHALL BE CLASS "B" CONCRETE.
  2. THRUST BLOCK DIMENSIONS WERE CALCULATED TO ALLOW A SOILBEARING VALUE OF 1,000 POUNDS PER SQUARE FOOT.

**THRUST BLOCK DETAILS**

NOT TO SCALE

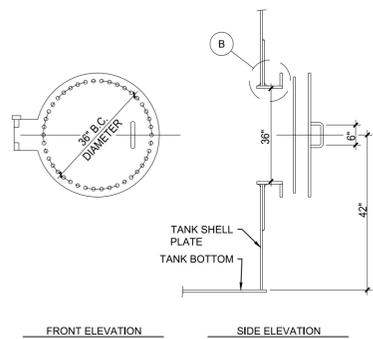
3



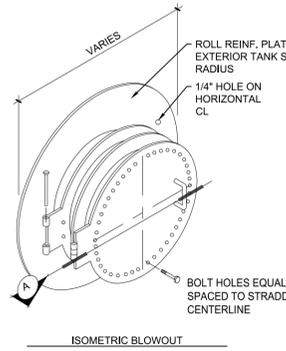
**COMMON TRENCH DETAIL**

NOT TO SCALE

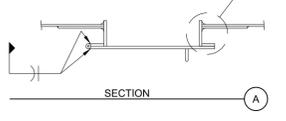
4



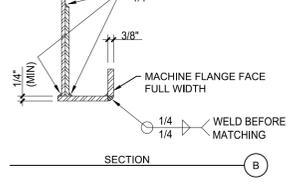
FRONT ELEVATION SIDE ELEVATION



ISOMETRIC BLOWOUT



SECTION

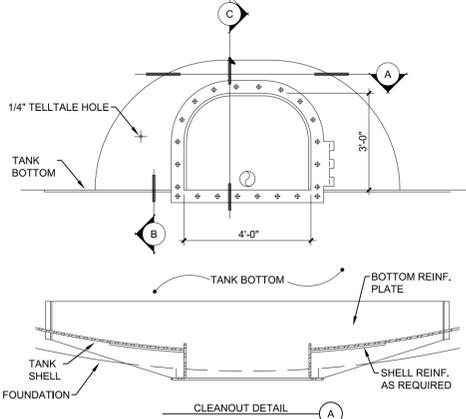


SECTION

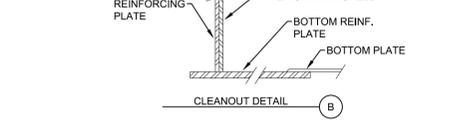
**MANWAY DETAIL**

NOT TO SCALE

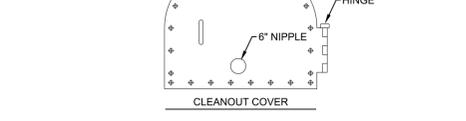
5



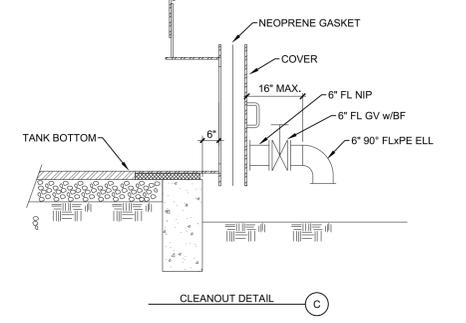
CLEANOUT DETAIL A



CLEANOUT DETAIL B



CLEANOUT COVER

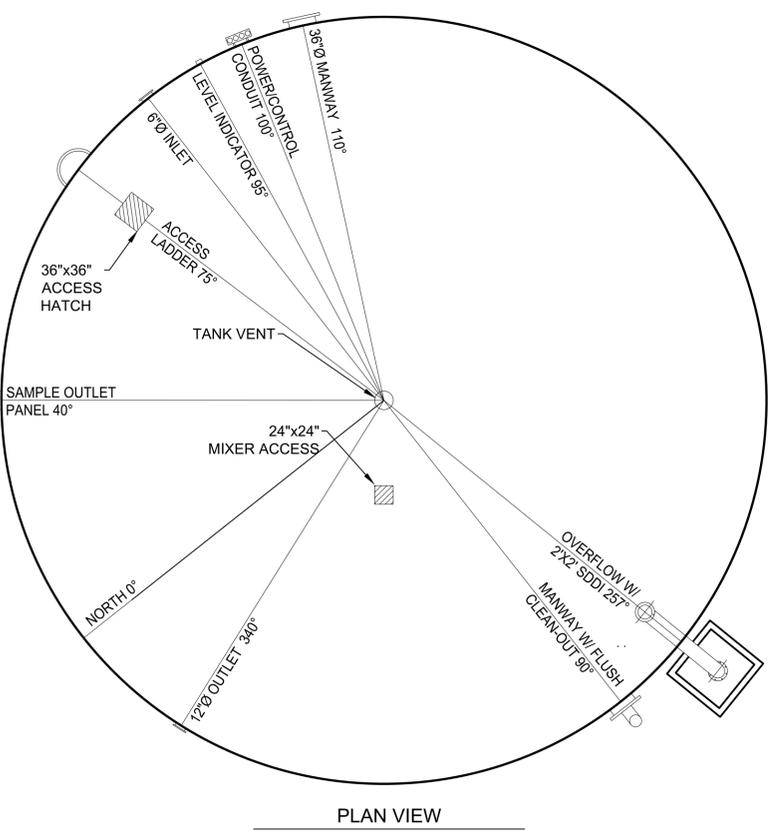


CLEANOUT DETAIL C

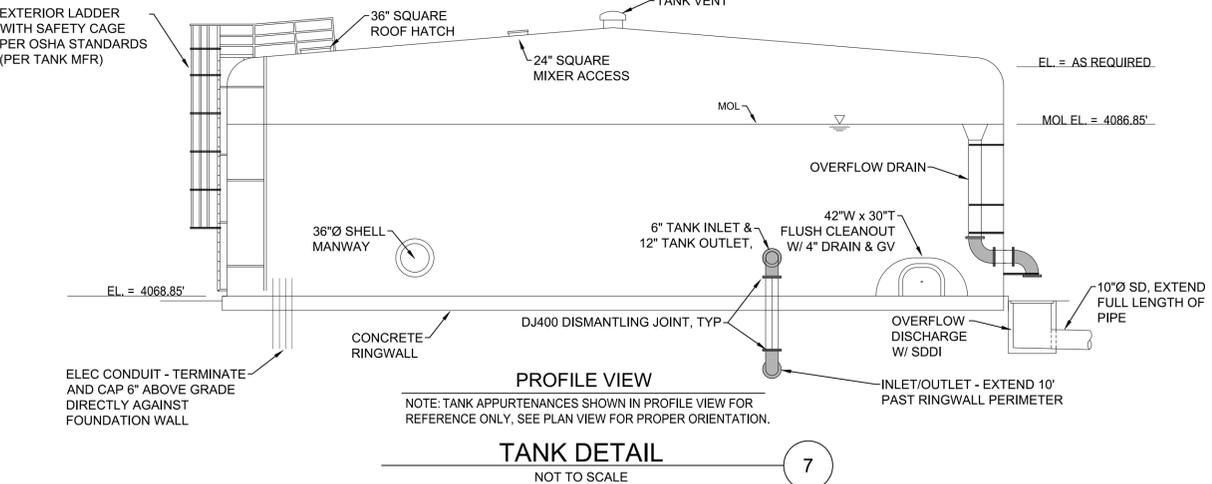
**DETAIL**

NOT TO SCALE

6



PLAN VIEW



PROFILE VIEW

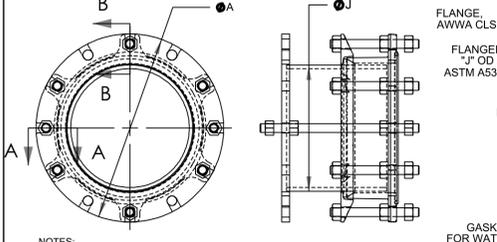
NOTE: TANK APPURTENANCES SHOWN IN PROFILE VIEW FOR REFERENCE ONLY. SEE PLAN VIEW FOR PROPER ORIENTATION.

**TANK DETAIL**

NOT TO SCALE

7

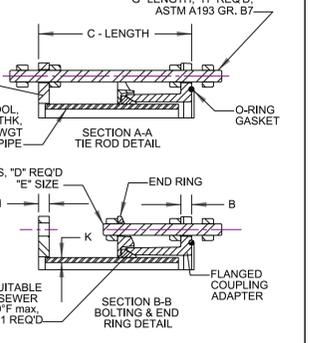
NOM SIZE	FLANGE		DIMENSIONS		BOLTS		TIE RODS		SPOOL		FLANGE THK	APPROX WEIGHT LBS		
	OD	THK	C-LENGTH	QTY	SIZE	SIZE	LENGTH	QTY	OD	THK				
3	7.50	0.60	8.00	7.00	9.00	2	5/8 - 11	5/8 - 11	13.50	2	3.50	0.22	0.63	31
4	9.00	0.60	8.00	7.00	9.00	4	5/8 - 11	5/8 - 11	13.50	2	4.50	0.24	0.63	36
6	11.00	0.63	8.38	7.38	9.38	4	3/4 - 10	3/4 - 10	15.00	2	6.63	0.28	0.69	55
8	13.50	0.63	8.38	7.38	9.38	4	3/4 - 10	3/4 - 10	15.00	2	8.63	0.32	0.69	72
10	16.00	1.24	10.50	9.50	11.50	6	5/8 - 11	7/8 - 9	17.75	2	10.75	0.37	0.69	108
12	19.00	1.25	10.50	9.50	11.50	6	7/8 - 9	7/8 - 9	17.75	2	12.75	0.38	0.81	134



- NOTES:
1. NSF 61 CERTIFIED COATING: FUSION BONDED EPOXY IS STANDARD. OTHER COATINGS AVAILABLE UPON REQUEST.
  2. FASTENERS: HSLA PER ASTM A588 IS STANDARD. STAINLESS STEEL TYPE 304 OR 316 PER ASTM A193 IS AVAILABLE UPON REQUEST.
  3. PRESSURE RATED UP TO FLANGES PROVIDED: 3" - 12" AWWA CLS D 175 PSIG WORKING, 263 PSIG TEST. FOR HIGHER PRESSURES, AWWA CLS E OR CLS F FLANGES AVAILABLE.
  4. WHEN INSTALLING, POSITION THE FLANGED COUPLING END IN THE REQUIRED LOCATION & THEN FOLLOW BOLTING INSTRUCTIONS.
  5. NOT INTENDED TO PROVIDE LATERAL MOVEMENT IN PIPELINE.

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REV	DESCRIPTION	DATE	APPROVED
1	ADDED FLANGE THICKNESS FOR FCA AND AWWA CLS D	23-JAN-2026	NTS
2	ADDED TEST PRESSURE TO NOTE 3	23-JAN-2026	NTS
3	REMOVED ALL LENGTH DIMENSIONS "C" AND TIE ROD LENGTHS "G"	13-MAR-2026	NTS
4	CHANGED NOTES TO REFLECT STD EPOXY AND STD HSLA FASTENERS. ADDED COATING REMOVED EXTRA FLANGES.	31-MAR-2026	NTS
5	REMOVED SUR FROM GASKET NOTE	01-APR-2026	NTS
6	12" NOM. SIZE BOLT QTY "D" WAS 4	01-APR-2026	NTS



DATE	BY	APPR	DESCRIPTION
13 MAR 2026	NELS THORGERSEN III		DISMANTLING JOINT
13 MAR 2026	GEORGE DENISON		DJ400 - W/ TIE RODS

MATERIAL	ASTM A536 - DUCTILE IRON A53 - PIPE	QTY	6
SCALE	NTS	SHEET	1 OF 1

8



**GRIZZLY FLATS COMMUNITY & SERVICES DISTRICT**

**DETAILS**

**NEW CLEARWELL STORAGE TANK**

**GRIZZLY FLATS** EL DORADO COUNTY CALIFORNIA

FOR REVIEW ONLY  
NOT FOR CONSTRUCTION  
FEBRUARY 9, 2026

0" 1"

WARNING: ADJUST SCALE IF THIS BAR DOES NOT MEASURE 1-INCH

**C6**

CADD BY: MLO  
DESIGNED BY: H2O  
CHECKED BY: SM  
JOB NO.: 4200-014  
SHEETS: C6 OF 6