

UTILITY IMPROVEMENT PLANS FOR:
NEVADA COUNTY PSYCHIATRIC HEALTH FACILITY
 NEVADA CITY, CALIFORNIA
 FEBRUARY 2026

GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, TECHNICAL SPECIFICATIONS AND THE FOLLOWING SPECIFICATIONS, CODES AND NOTES SHALL MEET THE REQUIREMENTS OF THE ADOPTED STANDARDS OF THE GOVERNING AGENCY, WHICH SHALL GOVERN IN CASE OF CONFLICT.
 - STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS CURRENT EDITIONS OF THE FOLLOWING:
 - CALIFORNIA BUILDING CODE: 2025
 - CALIFORNIA ENERGY CODE: 2025
 - NATIONAL FIRE PROTECTION ASSOCIATION: 2025
 - CALIFORNIA GREEN BUILDING STANDARDS CODE - "CALGREEN": 2025
- MILLENNIUM PLANNING AND ENGINEERING, EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO A THIRD PARTY WITHOUT THE EXPRESS WRITTEN CONSENT OF MILLENNIUM PLANNING AND ENGINEERING. IN THE EVENT OF UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD MILLENNIUM PLANNING AND ENGINEERING HARMLESS.
- MILLENNIUM PLANNING AND ENGINEERING, RESERVES THE RIGHT TO PERFORM OBSERVATION VISITS TO THE SITE AT ANY TIME. OBSERVATIONS ARE PERFORMED SOLELY FOR THE PURPOSE OF DETERMINING IF THE CONTRACTOR UNDERSTANDS DESIGN INTENT CONVEYED IN THE PLANS. OBSERVATIONS DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION OF THE PROJECT.
- ALL INSPECTIONS REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE PROVIDED BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT. SITE VISITS BY THE ENGINEER OF RECORD DO NOT CONSTITUTE AN INSPECTION, UNLESS SPECIFICALLY CONTRACTED.
- IN THE EVENT THAT CERTAIN EXISTING DIMENSIONS AND/OR CONDITIONS ARE FOUND TO BE DIFFERENT FROM THOSE SHOWN ON THE PLANS AND DETAILS, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED SO THAT THE PROPER REVISIONS CAN BE MADE IF NECESSARY. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WHICH THE CONTRACTOR FAILED TO NOTIFY MILLENNIUM PLANNING AND ENGINEERING, OF BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.
- THE DETAILS SHOWN ON THE DRAWINGS ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS. NO DEVIATIONS FROM DETAILS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF MILLENNIUM PLANNING AND ENGINEERING.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORM-WORK, ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.
- THESE PLANS HAVE BEEN PREPARED USING STANDARDS OF CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.
- PARKING SHALL BE MAINTAINED FREE OF FLAMMABLE VEGETATION AND CONSIST OF SURFACING CAPABLE OF SUPPORTING A 75,000 LB VEHICLE.

SITE WORK

- MILLENNIUM PLANNING AND ENGINEERING HAS NOT MADE A GEOTECHNICAL REVIEW OF THE BUILDING SITE AND IS NOT RESPONSIBLE FOR GENERAL SITE STABILITY OR SOIL SUITABILITY FOR THE PROPOSED PROJECT.
- BUILDING SITES ARE ASSUMED TO BE DRAINED AND FREE OF CLAY OR EXPANSIVE SOIL.
- ALL FINISH GRADES SHALL SLOPE A MIN. OF 5% AWAY FROM FOUNDATION, 2% MIN. AWAY FOR PAVED SURFACES FOR A MIN. OF 10 FEET AND DRAIN AWAY FROM BUILDING FOOTINGS. ADEQUATE DRAINAGE AWAY FROM THE STRUCTURE SHALL BE PROVIDED BY CONTRACTOR OR OTHERS, AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT. ANY DAMAGE TO AN EXISTING STRUCTURE AS A RESULT OF ANY ACTION OF THE CONTRACTOR SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE BARRICADES, WARNING SIGN, ETC. AS REQUIRED BY LOCAL CODES.
- CONTRACTOR SHALL LOCATE AND CLEARLY MARK THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL RELOCATE UTILITY LINES AS REQUIRED.
- NO CUTS OR FILLS ARE ALLOWED WITHIN 2' OF THE PROPERTY LINE.
- THIS OFFICE AND ENGINEER CAN NOT BE HELD RESPONSIBLE FOR CONSTRUCTION THAT TAKES PLACE ON THIS PROPERTY UNLESS THE CONSTRUCTION IS STAKED AND MONITORED BY THIS OFFICE.
- IF ANY SUSPECTED TRIBAL CULTURAL RESOURCES ARE DISCOVERED DURING GROUND DISTURBING CONSTRUCTION ACTIVITIES, ALL WORK SHALL CEASE WITHIN 100 FEET OF THE FIND, OR AN AGREED UPON DISTANCE BASED ON THE PROJECT AREA AND NATURE OF THE FIND. A TRIBAL REPRESENTATIVE FROM A CALIFORNIA NATIVE AMERICAN TRIBE THAT IS TRADITIONALLY AND CULTURALLY AFFILIATED WITH A GEOGRAPHIC AREA SHALL BE IMMEDIATELY NOTIFIED AND SHALL DETERMINE IF THE FIND IS A TOR (PRC §21074).

THE TRIBAL REPRESENTATIVE WILL MAKE RECOMMENDATIONS FOR FURTHER EVALUATION AND TREATMENT AS NECESSARY. TRIBAL REPRESENTATIVES ACT AS A REPRESENTATIVE OF THEIR TRIBAL GOVERNMENT AND ARE QUALIFIED PROFESSIONALS THAT HAVE THE AUTHORITY AND EXPERTISE TO IDENTIFY SITES OR OBJECTS OF CULTURAL VALUE TO NATIVE AMERICAN TRIBES AND RECOMMEND APPROPRIATE TREATMENT OF SUCH SITES OR OBJECTS. IF HUMAN REMAINS, OR SUSPECTED HUMAN REMAINS, ARE DISCOVERED THE APPROPRIATE STATE AND FEDERAL LAWS SHALL BE FOLLOWED. PRESERVATION IN PLACE IS THE PREFERRED OPTION FOR MITIGATION OF TCRS UNDER CEQA AND UAIC PROTOCOLS, AND EVERY EFFORT SHALL BE MADE TO PRESERVE THE RESOURCES IN PLACE, INCLUDING THROUGH PROJECT REDESIGN, IF FEASIBLE. WHEN AVOIDANCE IS INFEASIBLE, THE PREFERRED TREATMENT BY UAIC IS TO RECORD THE RESOURCE, MINIMIZE HANDLING OF CULTURAL OBJECTS, LEAVING OBJECTS IN PLACE WITHIN THE LANDSCAPE, OR RETURNING OBJECTS TO A LOCATION NEARBY WHERE THEY WILL NOT BE SUBJECT TO FUTURE IMPACTS.

WORK AT THE DISCOVERY LOCATION CANNOT RESUME UNTIL ALL NECESSARY INVESTIGATION AND EVALUATION OF THE DISCOVERY UNDER THE REQUIREMENTS OF CEQA HAVE BEEN SATISFIED. PRIOR TO BUILDING PERMIT FINAL APPROVAL, THE PROPERTY SHALL BE IN COMPLIANCE WITH THE VEGETATION MANAGEMENT REQUIREMENTS PRESCRIBED IN CALIFORNIA FIRE CODE SECTION 4906 AND LOCAL ENFORCING AGENCY.

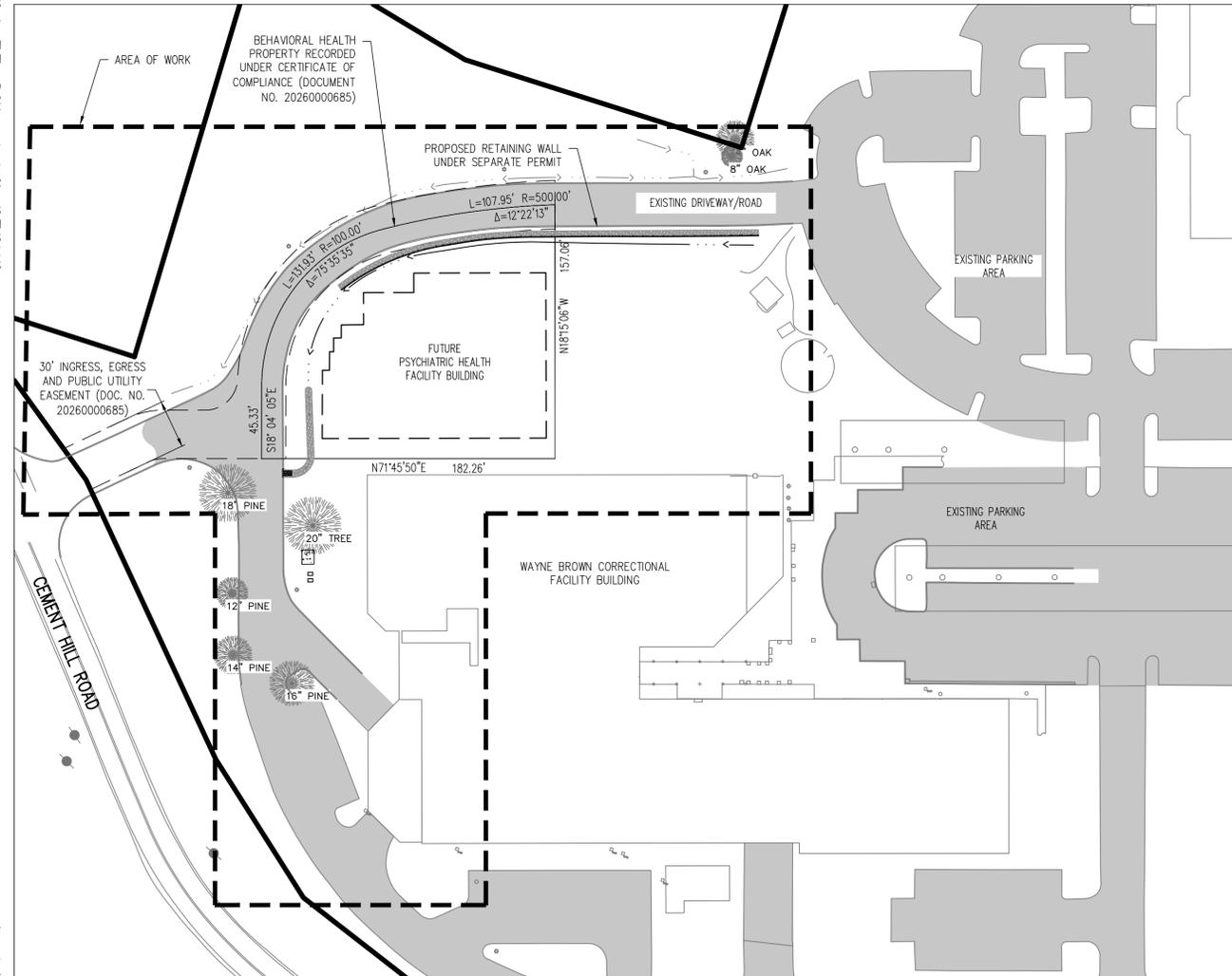
NORTHERN SIERRA AIR QUALITY NOTES

- THE APPLICANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL ADEQUATE DUST CONTROL MEASURES ARE IMPLEMENTED IN A TIMELY MANNER DURING ALL PHASES OF PROJECT DEVELOPMENT AND CONSTRUCTION.
- ALL MATERIAL EXCAVATED, STOCKPILED, OR GRADED SHALL BE SUFFICIENTLY WATERED, TREATED, OR COVERED TO PREVENT FUGITIVE DUST FROM LEAVING THE PROPERTY BOUNDARIES AND CAUSING A PUBLIC NUISANCE OR A VIOLATION OF AN AMBIENT AIR STANDARD. WATERING SHOULD OCCUR AT LEAST TWICE DAILY, WITH COMPLETE SITE COVERAGE.
- ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY FOR REGULAR STABILIZATION OF DUST EMISSIONS.
- ALL ON-SITE VEHICLE TRAFFIC SHALL BE LIMITED TO A SPEED OF 15 MPH ON UNPAVED ROADS.
- ALL LAND CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES ON A PROJECT SHALL BE SUSPENDED AS NECESSARY TO PREVENT EXCESSIVE WINDBLOWN DUST WHEN WINDS ARE EXPECTED TO EXCEED 20 MPH.
- ALL INACTIVE PORTIONS OF THE DEVELOPMENT SITE SHALL BE COVERED, SEEDDED, OR WATERED UNTIL A SUITABLE COVER IS ESTABLISHED. ALTERNATIVELY, THE APPLICANT MAY APPLY APPROVED NONTOXIC SOIL STABILIZERS (ACCORDING TO MANUFACTURERS SPECIFICATIONS) TO ALL INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS WHICH REMAIN INACTIVE FOR 96 HOURS) IN ACCORDANCE WITH THE LOCAL GRADING ORDINANCE.
- ALL MATERIAL TRANSPORTED OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT PUBLIC NUISANCE, AND THERE MUST BE A MINIMUM OF SIX (6) INCHES OF FREEBOARD IN THE BED OF THE TRANSPORT VEHICLE.
- PAVED STREETS ADJACENT TO THE PROJECT SHALL BE SWEEP AT THE END OF EACH DAY, OR MORE FREQUENTLY IF NECESSARY, TO REMOVE EXCESSIVE OR VISIBLY RAISED ACCUMULATIONS OF DIRT AND/OR MUD WHICH MAY HAVE RESULTED FROM ACTIVITIES AT THE PROJECT SITE.

FUEL MODIFICATION NOTE

- CONTRACTOR SHALL CREATE, AND OWNER SHALL MAINTAIN DEFENSIBLE SPACE OF 100 FEET FROM EACH SIDE AND FROM THE FRONT AND REAR OF THE STRUCTURE. THE INTENSITY OF FUELS MANAGEMENT MAY VARY WITHIN THE 100-FOOT PERIMETER OF THE STRUCTURE, THE MOST INTENSE BEING WITHIN THE FIRST 30' AROUND THE STRUCTURE IF POSSIBLE WITHIN THE PROPERTY BOUNDARY.
- ROADSIDE VEGETATION: A FUEL MODIFICATION AREA SHALL BE PROVIDED FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE DRIVEWAY.
- VERTICAL CLEARANCE: VERTICAL CLEARANCE SHALL BE 15 FEET MINIMUM, MEASURED FROM THE OUTSIDE EDGE OF THE SHOULDER.

THIS PARAGRAPH DOES NOT APPLY TO SINGLE SPECIMENS OF TREES OR OTHER VEGETATION THAT ARE WELL-PRUNED AND MAINTAINED SO AS TO EFFECTIVELY MANAGE FUELS AND NOT FORM A MEANS OF RAPIDLY TRANSMITTING FIRE FROM OTHER NEARBY VEGETATION TO A STRUCTURE OR FROM A STRUCTURE TO OTHER NEARBY VEGETATION. THE INTENSITY OF THE VEGETATION MANAGEMENT MAY VARY WITHIN THE 100-FOOT PERIMETER OF THE STRUCTURE, WITH THE MOST INTENSE BEING WITHIN THE FIRST 50 FEET AROUND THE STRUCTURE.



SITE PLAN
SCALE 1"=50'

EARTHWORK

ESTIMATED EXCAVATION QUANTITIES:
 CUT: 290 CUBIC YARDS
 FILL: 20 CUBIC YARDS
 NET: 270 CUBIC YARDS EXPORT

ASSUMPTIONS:

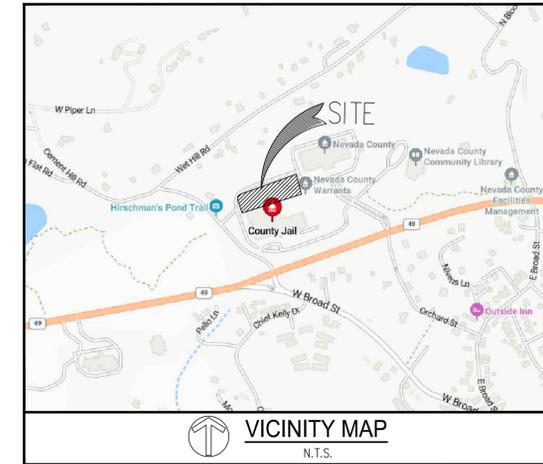
FILL FACTOR = 1.1
 CUT FACTOR = 1.0
 UTILITY TRENCH / FOOTING SPOLS ARE NOT INCLUDED IN THIS CALCULATION. DRAIN ROCK EXCAVATION INCLUDED IN THE VOLUME CALCULATION.

THE TOPOGRAPHY FROM WHICH THE ABOVE QUANTITIES WERE COMPUTED WAS OBTAINED FROM A FIELD TOPOGRAPHIC SURVEY, RESULTING IN A 1' CONTOUR INTERVAL MAP THAT WAS PROVIDED BY DUNDAS GEOMATICS, INC.

- THE CONTRACTOR IS ADVISED TO MAKE AN INDEPENDENT EVALUATION OF THE EARTHWORK QUANTITIES INVOLVED. THE OWNER AND MILLENNIUM PLANNING AND ENGINEERING DO NOT, EXPRESSLY OR BY IMPLICATION, AGREE THAT THE ACTUAL EARTHWORK QUANTITIES WILL CORRESPOND TO THOSE GIVEN ABOVE. EARTHWORK QUANTITIES MAY FLUCTUATE DEPENDING UPON SIZE AND AMOUNT OF ROCK ENCOUNTERED. ANY EXCESS OR UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE OWNER'S PROPERTY AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- FILL MATERIAL SHALL BE FREE FROM DEBRIS, VEGETATION, AND OTHER FOREIGN SUBSTANCES
- FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" IN COMPACTED THICKNESS, MOISTENED OR DRIED AS NECESSARY TO NEAR OPTIMUM MOISTURE CONTENT COMPACTED BY AN APPROVED METHOD. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION WITH MOISTURE CONTENT BETWEEN 2% AND 4% OF OPTIMUM LABORATORY VALUE. IN THE UPPER 8" OF SUBGRADE IN PAVEMENT, SOIL SHALL BE COMPACT AT SLIGHTLY ABOVE OPTIMUM VALUE. A.B. MATERIALS SHALL BE COMPACTED TO AT LEAST 95% R.C.
- SUBGRADE PREPARATION SHOULD EXTEND A MINIMUM OF 5 FEET BEYOND THE OUTERMOST LIMITS OF THE PROPOSED BUILDING AREAS AND ANY ADJOINING EXTERIOR FLATWORK. FOR EXTERIOR FLATWORK NOT CONNECTED TO BUILDINGS AND FOR PAVEMENT AREAS, SUBGRADE PREPARATION SHOULD EXTEND AT LEAST 2 FEET BEYOND THE LIMITS OF EXTERIOR FLATWORK OR PAVEMENTS.

ABBREVIATIONS

AC	ASPHALT CONCRETE	INV	INVERT
AB	AGGREGATE BASE	IRR	IRRIGATION
C	CONCRETE	HDPE	HIGH DENSITY POLYETHYLENE
CATV	CABLE TV	LF	LINEAR FEET
C.A.V.	CLEAN AIR VEHICLE	MAX	MAXIMUM
COMP	CORRUGATED METAL PIPE	MIN	MINIMUM
COMM.	COMMUNICATION BOX	MH	MAN HOLE
CF	CUBIC FEET	P	PAVEMENT
DET.	DETAIL	P.E.	POLYETHYLENE
DI	DRAIN INLET	SD	STORM DRAIN
D.I.P.	DUCTILE IRON PIPE	SDCB	STORM DRAIN CATCH BASIN
EG	EXISTING GROUND	SDMH	STORM DRAIN MANHOLE
ELEC.	ELECTRICAL	SMH	SANITARY SEWER MANHOLE
E.V.	ELECTRIC VEHICLE	STD.	STANDARD
EX., (E)	EXISTING	TC	TOP OF CURB
FF	FINISH FLOOR	TDPUO	TRUCKEE DONNER PUBLIC UTILITY DISTRICT
FG	FINISH GRADE	TSD	TRUCKEE SANITARY DISTRICT
FH	FIRE HYDRANT	TYP.	TYPICAL
FL	FLOW LINE	W	WATER
I.E.	INVERT ELEVATION	WV	WATER VALVE



OWNER/APPLICANT

NEVADA COUNTY FACILITIES DEPARTMENT
 CONTACT: PAT SOLIZA
 10014 N. BLOOMFIELD ROAD
 NEVADA CITY, CA 95959
 530-913-5491

SITE ADDRESS

925 MAIDU AVE
 NEVADA CITY, CA 95959

PROJECT DESCRIPTION

CONSTRUCTION OF RETAINING WALL, DRAINAGE IMPROVEMENTS AND UTILITY EXTENSIONS FOR FUTURE PSYCHIATRIC HEALTH FACILITY

MAP PREPARED BY

MILLENNIUM PLANNING & ENGINEERING
 159 S. AUBURN STREET
 GRASS VALLEY, CA 95945
 (530) 446-6765
 CONTACT: MICHELLE LAYSHOT, P.E.

ASSESSOR'S PARCEL NUMBER

005-020-024

ZONING

ZONING:
 P-SC NEVADITY, OP AN SC NEVADITY

ACREAGE

16.69 ACRES / 727,016 SF

AREA OF DISTURBANCE

8,000 SF

SERVICES

ELECTRICITY: PACIFIC GAS & ELECTRIC (PG&E)

WATER: NEVADA CITY

SEWER: NEVADA CITY

BASIS OF BEARING

THIS SURVEY ESTABLISHES A COORDINATE SYSTEM AS DEFINED BY THE 2011 (EPOCH 2010.00) ADJUSTMENT OF THE NAD83 STATE PLANE COORDINATES, HOLDING THE FOLLOWING FIXED: PONDEROSA, DELPHINE AND HPGN D CA 03 GK.

VERTICAL DATUM

THE VERTICAL DATUM IS BASED ON NAVD 88 DETERMINED USING POINT # 11 (2658.151) PER 17 ROS 122.

SHEET INDEX

C1.0	COVER SHEET & NOTES
C2.0	EXISTING TOPOGRAPHY AND DEMOLITION PLAN
C3.0	UTILITY PLAN
C4.0	GENERAL AND SEWER DETAILS
C4.1	WATER DETAILS



REV.	DESCRIPTION	DATE

PSYCHIATRIC HEALTH FACILITY
 925 MAIDU AVENUE
 NEVADA CITY, CA 95959
COVER SHEET



DATE SIGNED: 2-11-26

DESIGNED BY: MCL

DRAWN BY: DEC

PROJECT NO.: 24-1015

DATE: FEBRUARY 2026

SHEET NUMBER:

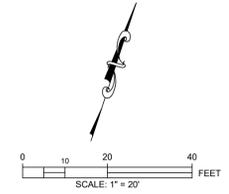
C1.0



LEGEND	
	PROPERTY LINE
	BUILDING SETBACK LINE (B.S.L.)
	EXISTING FLOW LINE
	EXISTING STORM DRAIN

DEMOLITION NOTES

- (D1) REMOVE EXISTING CURB AND INSTALL A CURB CUT.
- (D2) DEMO EXISTING CHAIN LINK FENCE
- (D3) REMOVE EXISTING RIP-RAP.

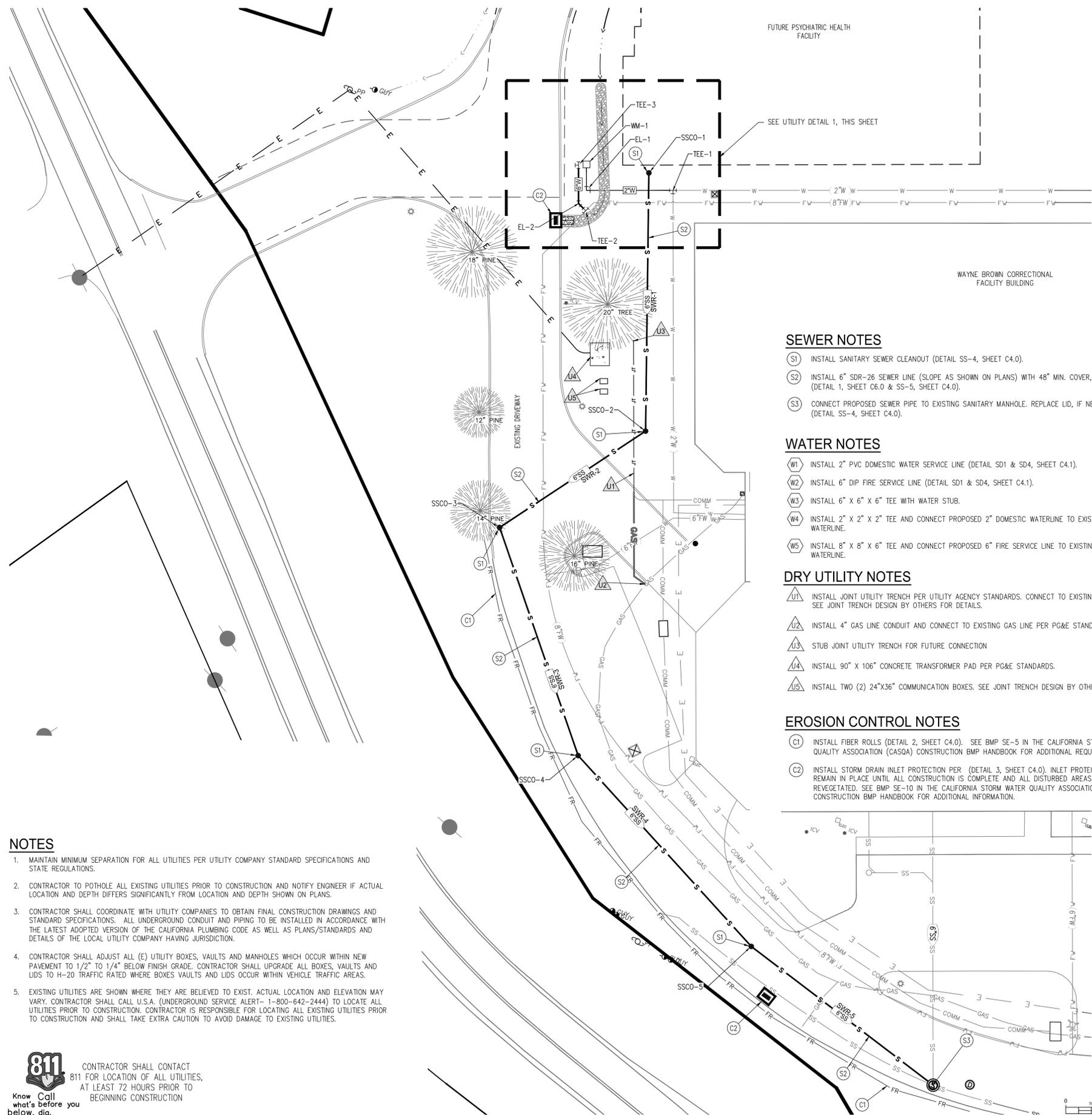


REV.	DESCRIPTION	DATE

PSYCHIATRIC HEALTH FACILITY
 925 MAIDU AVENUE
 NEVADA CITY, CA 95959
EXISTING TOPOGRAPHY AND DEMOLITION PLAN



DATE SIGNED: 2-11-26
DESIGNED BY: MCL
DRAWN BY: DEC
PROJECT NO.: 24-1015
DATE: FEBRUARY 2026
SHEET NUMBER: C2.0



SS PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
SWR-1	6"	100.0'	0.60%	SDR-26
SWR-2	6"	68.0'	0.80%	SDR-26
SWR-3	6"	93.5'	0.60%	SDR-26
SWR-4	6"	100.0'	0.87%	SDR-26
SWR-5	6"	88.9'	0.50%	SDR-26

LEGEND	
---	PROPERTY LINE
→ ... →	EXISTING FLOW LINE
→ ... ←	FLOW LINE
SD	EXISTING STORM DRAIN
SS	EXISTING SEWER LINE
FW (8"FW)	EXISTING FIRE LINE
W (2"W)	EXISTING DOMESTIC WATERLINE
COMM	EXISTING COMMUNICATION LINE
GAS	EXISTING GAS LINE
E	EXISTING ELECTRICAL LINE
[Pattern]	EXISTING CONCRETE
[Pattern]	EXISTING ASPHALT
[Symbol]	PROPOSED SANITARY SEWER LINE
[Symbol]	PROPOSED SANITARY SEWER CLEANOUT
[Symbol]	PROPOSED GAS LINE
[Symbol]	PROPOSED DOMESTIC WATERLINE
[Symbol]	PROPOSED FIRE WATERLINE
[Symbol]	PROPOSED FIRE HYDRANT
[Symbol]	PROPOSED JOINT UTILITY TRENCH
[Symbol]	PROPOSED DRAINAGE INLET
[Symbol]	SE-10-STORM DRAIN INLET PROTECTION (DETAIL 3, SHEET C4.0)
[Symbol]	SE-5-FIBER ROLLS (DETAIL 2, SHEET C4.0)
[Symbol]	PROPOSED ELECTRICAL LINE

SEWER NOTES

- (S1) INSTALL SANITARY SEWER CLEANOUT (DETAIL SS-4, SHEET C4.0).
- (S2) INSTALL 6" SDR-26 SEWER LINE (SLOPE AS SHOWN ON PLANS) WITH 48" MIN. COVER, TYPICAL (DETAIL 1, SHEET C6.0 & SS-5, SHEET C4.0).
- (S3) CONNECT PROPOSED SEWER PIPE TO EXISTING SANITARY MANHOLE. REPLACE LID, IF NECESSARY (DETAIL SS-4, SHEET C4.0).

WATER NOTES

- (W1) INSTALL 2" PVC DOMESTIC WATER SERVICE LINE (DETAIL SD1 & SD4, SHEET C4.1).
- (W2) INSTALL 6" DIP FIRE SERVICE LINE (DETAIL SD1 & SD4, SHEET C4.1).
- (W3) INSTALL 6" X 6" X 6" TEE WITH WATER STUB.
- (W4) INSTALL 2" X 2" X 2" TEE AND CONNECT PROPOSED 2" DOMESTIC WATERLINE TO EXISTING WATERLINE.
- (W5) INSTALL 8" X 8" X 6" TEE AND CONNECT PROPOSED 6" FIRE SERVICE LINE TO EXISTING WATERLINE.

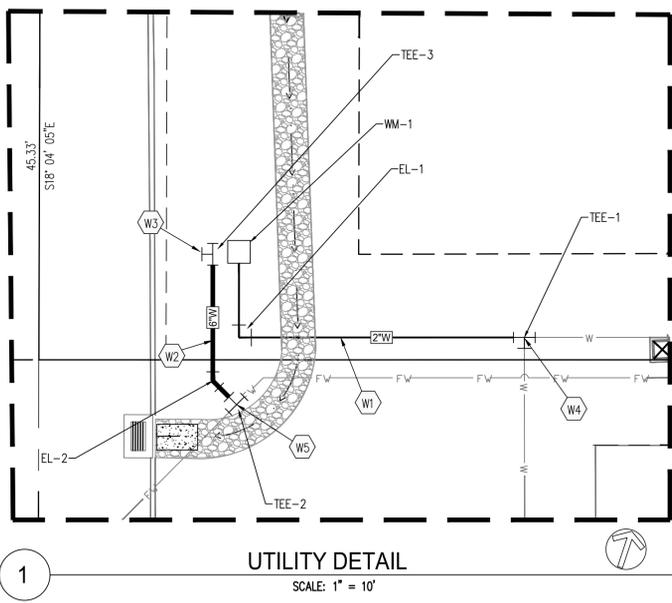
DRY UTILITY NOTES

- (U1) INSTALL JOINT UTILITY TRENCH PER UTILITY AGENCY STANDARDS. CONNECT TO EXISTING COMMUNICATION LINES. SEE JOINT TRENCH DESIGN BY OTHERS FOR DETAILS.
- (U2) INSTALL 4" GAS LINE CONDUIT AND CONNECT TO EXISTING GAS LINE PER PG&E STANDARDS AND SPECIFICATIONS.
- (U3) STUB JOINT UTILITY TRENCH FOR FUTURE CONNECTION
- (U4) INSTALL 90" X 106" CONCRETE TRANSFORMER PAD PER PG&E STANDARDS.
- (U5) INSTALL TWO (2) 24"X36" COMMUNICATION BOXES. SEE JOINT TRENCH DESIGN BY OTHERS FOR DETAILS.

EROSION CONTROL NOTES

- (C1) INSTALL FIBER ROLLS (DETAIL 2, SHEET C4.0). SEE BMP SE-5 IN THE CALIFORNIA STORM WATER QUALITY ASSOCIATION (CASQA) CONSTRUCTION BMP HANDBOOK FOR ADDITIONAL REQUIREMENTS.
- (C2) INSTALL STORM DRAIN INLET PROTECTION PER (DETAIL 3, SHEET C4.0). INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE REVEGETATED. SEE BMP SE-10 IN THE CALIFORNIA STORM WATER QUALITY ASSOCIATION (CASQA) CONSTRUCTION BMP HANDBOOK FOR ADDITIONAL INFORMATION.

WATER STRUCTURE TABLE	
STRUCTURE NAME	DETAILS
EL-1	INSTALL 90 DEG ELBOW (DETAIL SD3, SHEET C4.1)
EL-2	INSTALL 45-DEG ELBOW (DETAIL SD3, SHEET C4.1)
TEE-1	INSTALL 3-WAY 2 X 2 X 2 TEE AND CONNECT TO EXISTING WATERLINE PER NID STANDARDS (DETAIL SD3, SHEET C4.1)
TEE-2	CUT EXISTING FIRE LINE AND INSTALL 3-WAY 8 X 8 X 6 TEE (DETAIL SD3, SHEET C4.1)
TEE-3	INSTALL 3-WAY 6 X 6 X 6 TEE (DETAIL SD3, SHEET C4.1)
WM-1	INSTALL NEW WATER METER BOX



NOTES

1. MAINTAIN MINIMUM SEPARATION FOR ALL UTILITIES PER UTILITY COMPANY STANDARD SPECIFICATIONS AND STATE REGULATIONS.
2. CONTRACTOR TO POTHOLE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF ACTUAL LOCATION AND DEPTH DIFFERS SIGNIFICANTLY FROM LOCATION AND DEPTH SHOWN ON PLANS.
3. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO OBTAIN FINAL CONSTRUCTION DRAWINGS AND STANDARD SPECIFICATIONS. ALL UNDERGROUND CONDUIT AND PIPING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE CALIFORNIA PLUMBING CODE AS WELL AS PLANS/STANDARDS AND DETAILS OF THE LOCAL UTILITY COMPANY HAVING JURISDICTION.
4. CONTRACTOR SHALL ADJUST ALL (E) UTILITY BOXES, VAULTS AND MANHOLES WHICH OCCUR WITHIN NEW PAVEMENT TO 1/2" TO 1/4" BELOW FINISH GRADE. CONTRACTOR SHALL UPGRADE ALL BOXES, VAULTS AND LIDS TO H-20 TRAFFIC RATED WHERE BOXES VAULTS AND LIDS OCCUR WITHIN VEHICLE TRAFFIC AREAS.
5. EXISTING UTILITIES ARE SHOWN WHERE THEY ARE BELIEVED TO EXIST. ACTUAL LOCATION AND ELEVATION MAY VARY. CONTRACTOR SHALL CALL U.S.A. (UNDERGROUND SERVICE ALERT- 1-800-642-2444) TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND SHALL TAKE EXTRA CAUTION TO AVOID DAMAGE TO EXISTING UTILITIES.

811 Know Call what's before you dig.
 CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

REV.	DESCRIPTION	DATE



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NON-METALLIC WATER MAIN

METALLIC WATER MAIN & SERVICE LINE

TRENCH WIDTH "W" SCHEDULE	MIN. TRENCH WIDTH FOR TANGENTS AND CURVES OVER 1000' RADII	MIN. TRENCH WIDTH FOR CURVES LESS THAN 1000' RADII
1" - 11"	24"	24"
12" & LARGER	OD + 16"	OD + 16"

PIPE COVER "C" SCHEDULE	MIN.	MAX.
WATER MAIN	24"	48"
SERVICE LINE & LATERALS	30"	48"

1) SERVICE LINES OR LATERALS OVER 2" SHALL BE INSTALLED AS WATER MAINS.
2) THE PROFILE, WHERE SHOWN ON THE PLANS, SHALL GOVERN OVER THIS SCHEDULE.

CLASS #1	CLASS #2	CLASS #3	CLASS #4
CLEAN SAND-FREE FROM 1" SIEVE MATERIAL	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND PASSING 1" SCREEN	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND PASSING 2" SCREEN	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND PASSING 4" SCREEN

*SAND EQUIVALENT PER CALTRANS METHOD 217

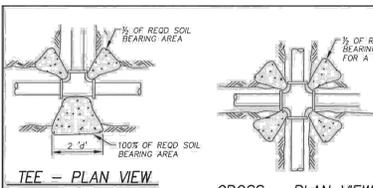
TRENCH BACKFILL COMPACTION SCHEDULE-STANDARD PROCTOR (90)	ITEM	INSIDE ROADWAY	OUTSIDE ROADWAY
WATER MAIN	95% MIN.	95% MIN.	95% MIN.
SERVICE LINES & ARV LATERALS	95% MIN.	95% MIN.	95% MIN.
HYDRANT LATERAL	95% MIN.	95% MIN.	95% MIN.

- NOTES:**
- ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "WATER MAINS" AND "SERVICE ASSEMBLIES" IN THE SPECIFICATIONS.
 - TRENCH DETAILS FOR PIPELINES LOCATED ALONG OR ACROSS ROADWAYS SHALL CONFORM TO REQUESTS OF THE APPROPRIATE REGULATORY BODY.
 - TRENCHES LOCATED OUTSIDE OF ROADWAYS SHALL HAVE BACKFILL SLIGHTLY MOUNDING OVER THE TRENCH UNLESS DETERMINED BY THE DISTRICT ENGINEER THAT A MOUND IS NOT NECESSARY.
 - LOCATING WIRE SHALL CONFORM TO DRAWING NID SD4.
 - COMMON TRENCH WITH OTHER UTILITIES WILL NOT BE ALLOWED.
 - TRENCHES IN COUNTY ROADWAYS SHALL FOLLOW COUNTY REQUIREMENTS.
 - CONTRACTOR SHALL COMPACT HAUNCHES OF PIPE IN SUCH WAY THAT MATERIAL BELOW THE CENTERLINE OF PIPE SUPPORTING PIPE WILL BE COMPACTED.
 - LOCATE TAPE SHALL BE PLACED A MINIMUM 12" ABOVE TOP OF PIPE, MINIMUM 3" WIDE AND SHALL CONTAIN LETTERING "CAUTION BURIED WATER LINE BELOW".
 - CLAY PLAGES SHALL BE USED IN THE TRENCH TO PREVENT MIGRATION OF WATER DOWN THE PIPELINE TRENCH, AS REQUIRED AND BY THE DIRECTION OF THE DISTRICT ENGINEER (SECTION 12 - WATER MAINS, 12-3.09-1).
 - CROSS COUNTRY PIPE INSTALLATION (NOT UNDER ROADWAYS) MAY HAVE DIFFERENT BACKFILL REQUIREMENTS AND AS APPROVED BY THE DISTRICT ENGINEER.

WATER MAIN, SERVICE LINE AND LATERAL TRENCH DETAILS

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VERTICAL ELBOW-PLAN VIEW

ELBOW - PLAN VIEW

1' = DEPTH OF SOIL BEARING SURFACE

- NOTES:**
- MATERIALS AND INSTALLATION SHALL CONFORM TO REACTION BLOCKING FOR "WATER MAINS" IN THE SPECIFICATIONS.
 - THRUST BLOCKS SHALL BE PLACED AT ALL HORIZONTAL DEFLECTIONS IN EXCESS OF 6 DEGREES AND ALL DOWNWARD VERTICAL DEFLECTIONS IN EXCESS OF 6 DEGREES (USE VALUES FOR 1 1/2 DEGREES IN TABLE).
 - SOIL BEARING AREAS ARE BASED ON A 2,000 PSI SOIL PRESSURE AND WORKING PRESSURE OF 150 PSI PLUS 1.50 FACTOR OF SAFETY (AND A 75 PSI SURGE (TOTAL 100 PSI)). CALCULATION FOR BEARING AREAS FOR WORKING PRESSURE HIGHER THAN 150 PSI MUST BE APPROVED BY THE DISTRICT ENGINEER. ADJUST SOIL BEARING PRESSURE AS NECESSARY, WITH APPROVAL FROM THE DISTRICT ENGINEER.
 - CONCRETE SHALL BE PLACED BETWEEN THE FITTING AND UNDISTURBED SOIL.
 - THRUST BLOCKS SHALL BE NEATLY FORMED USING PLYWOOD OR SANDBAGS. FORMING MATERIALS SHALL BE REMOVED UPON INITIAL CURE OF CONCRETE AND PRIOR TO BACKFILLING. CONCRETE TO CURE A MINIMUM 24 HOURS PRIOR TO ANY DISTURBANCE AND BACKFILL.
 - THRUST BLOCKS SHALL BE CONSTRUCTED USING A MINIMUM 2,000 PSI CONCRETE.
 - CONCRETE SHALL NOT BE PLACED ON OR AROUND PIPE BELLS, FLANGES OR OTHER JOINTS IF UNAVOIDABLE, AND WITH APPROVAL OF THE DISTRICT ENGINEER, THESE AREAS SHALL BE PROTECTED WITH A DOUBLE WRAP OF 6 MIL POLYETHYLENE FILM.
 - THRUST BLOCKS PLACED ON BLIND FLOORS ADJACENT TO OTHER THRUST BLOCKS ON THE SAME FITTING SHALL BE SEPARATED FROM THE PERMANENT THRUST BLOCKS WITH A PLYWOOD DIVIDER IN ORDER TO FACILITATE ITS REMOVAL.
 - THRUST BLOCKS FOR PIPES 14" AND LARGER TO BE APPROVED BY DISTRICT ENGINEER.
 - THRUST BLOCKS FOR REDUCERS TO BE APPROVED BY DISTRICT ENGINEER.
 - REBAR HOOPS FOR VERTICAL THRUST BLOCKS TO BE EPOXY COATED.
 - RESTRAINED PIPE CAN BE UTILIZED INSTEAD OF THRUST BLOCKS AND SHALL BE PRE-APPROVED BY THE DISTRICT ENGINEER.

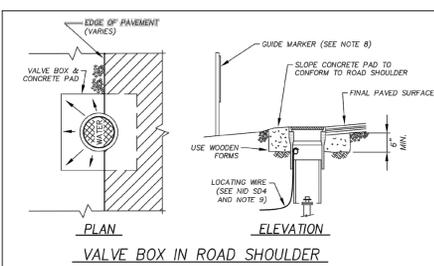
PIPE SIZE	REQUIRED SOIL BEARING (SQ. FT.) - SEE NOTE #4				
	BLIND END OR TEE	90°	45°	22 1/2°	11 1/4°
4" x 6"	5	6	4	2	1
6"	8	11	6	3	2
8"	12	17	10	5	3
12"	17	24	13	7	4

PIPE SIZE	CUBIC YARDS CONCRETE				
	90°	45°	22 1/2°	11 1/4°	REBAR
4" x 6"	2.5	1.5	1.0	0.5	#5
6"	4.5	2.5	1.5	1.0	#5
8"	6.5	4.0	2.5	1.5	#5
12"	9.0	5.5	3.0	2.0	#8

THRUST BLOCKS

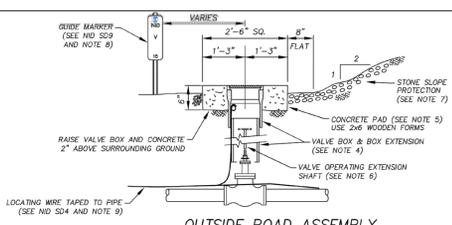
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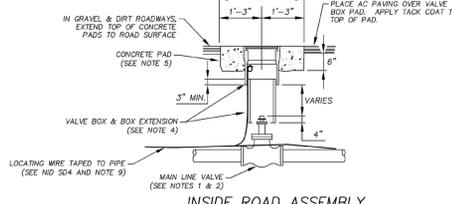


VALVE BOX IN ROAD SHOULDER

- NOTES:**
- ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO "MAIN LINE VALVE ASSEMBLIES" IN THE SPECIFICATIONS.
 - VALVES SHALL BE OF THE TYPE ALLOWED IN THE SPECIFICATIONS.
 - JOINTS SHALL BE FLANGED JOINTS EXCEPT WHERE SPECIFIC TYPES OF JOINTS ARE SHOWN ON THE PLANS OR DESIGNATED IN THE SPECIFICATIONS. ALL JOINTS SHALL BE PROTECTED FROM CORROSIONS AS REQUIRED IN THE SPECIFICATIONS.
 - VALVE BOXES SHALL BE CHRISTY CS WITH A RATTLEPROOF CAST IRON LID MARKED "WATER". BOX EXTENSIONS SHALL BE PRECAST CONCRETE OR 8" C900 P.C. PIPE WITH MINIMUM SDP OF 25 AND ENDS CUT SQUARE. BOX EXTENSIONS SHALL BE CENTERED OVER THE VALVE OPERATING NUT AND CONCENTRIC WITH THE VALVE STEM.
 - VALVE BOX PADS SHALL BE 3,000 PSI CONCRETE.
 - A VALVE OPERATOR EXTENSION SHAFT SHALL BE FURNISHED AND INSTALLED FOR ALL VALVES WITH OPERATING NUT PLACED 60" OR MORE BELOW THE TOP OF THE VALVE BOX. REFER TO DRAWING NID SD10.
 - PLACE STONE SLOPE PROTECTION OF NO. 3 BACKING ROCK PER CALTRANS SEC. 72 ON ALL CUT SLOPES SURROUNDING VALVE ASSEMBLIES AS DIRECTED.
 - A GUIDE MARKER SHALL BE FURNISHED AND INSTALLED AS DIRECTED. REFER TO DRAWING NID SD10.
 - LOCATING WIRE MUST BE ABLE TO EXTEND 12" ABOVE THE TOP OF THE VALVE BOX LID.



OUTSIDE ROAD ASSEMBLY

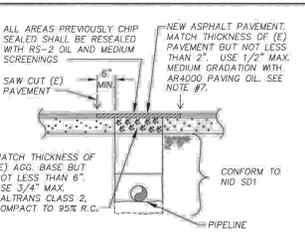


INSIDE ROAD ASSEMBLY

MAIN LINE VALVE ASSEMBLY

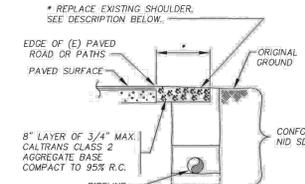
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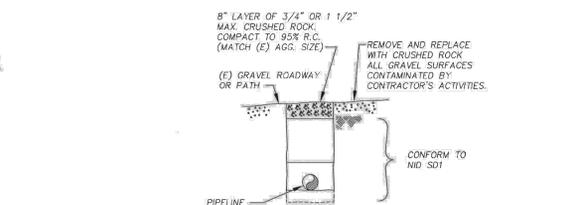
PIPELINES ALONG OR ACROSS PAVED ROADS OR PATHS

* REPLACE EXISTING SHOULDER. SEE DESCRIPTION BELOW.



PIPELINE ALONG GRAVELED SHOULDERS OF PAVED ROADS OR PATHS

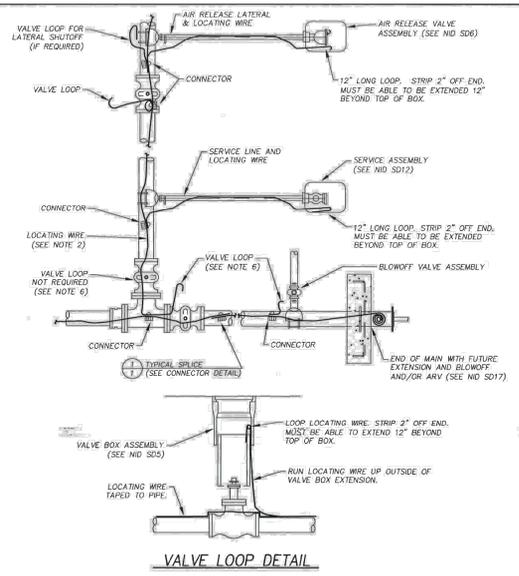
- NOTES:**
- ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "WATER MAINS" IN THE SPECIFICATIONS.
 - ALL DETAILS REFER TO EXISTING ROADS AND PATHS. THE STRUCTURE OVER PIPELINES INSTALLED IN CONJUNCTION WITH NEW ROADS AND PATHS SHALL CONFORM TO DETAILS SHOWN ELSEWHERE ON THE PLANS.
 - THE TERM "PIPELINE" REFERS TO ALL PIPELINES, INCLUDING, BUT NOT LIMITED TO, WATER MAINS, SERVICE LINES, ARV LATERALS, AND BLOWOFF DISCHARGE PIPES.
 - THE TERM "ROADS" REFERS TO ANY AREAS WITH PAVED OR GRAVELED SURFACES WHICH MAY BE SUBJECTED TO TRAFFIC LOADS INCLUDING, BUT NOT LIMITED TO, PRIVATE ROADS, DRIVEWAYS, PARKING AREAS, PAVED SHOULDERS, AND EMERGENCY VEHICLE ACCESS ROADS.
 - THE TERM "PATHS" REFERS TO ALL IMPROVED PATHS, PAVED OR GRAVELED, INCLUDING, BUT NOT LIMITED TO, BICYCLE PATHS (NOT INTEGRAL WITH A ROAD), PEDESTRIAN PATHS, WALK WAYS, AND LANDSCAPE PATHS.
 - PIPELINES CROSSING PAVED RESIDENTIAL DRIVEWAYS SHALL BE CONSIDERED AS PIPELINES ALONG PAVED ROADS, EXCEPT AS NOTED OTHERWISE ON THE PLANS.
 - ROADS OR PATHS PAVED WITH CONCRETE SHALL BE RECONSTRUCTED USING MATERIALS AND TECHNIQUES MATCHING THE ORIGINAL PAVEMENT.
 - SURFACE RESTORATION OF OTHER ROADS AND PATHS SHALL CONFORM TO THE REQUIREMENTS OF THE APPROPRIATE REGULATORY BODY.



SURFACE RESTORATION OF ROADS AND PATHS

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- NOTES:**
- ALL MATERIALS AND INSTALLATION SHALL CONFORM TO LOCATING WIRE AND CONNECTORS FOR "WATER MAINS" IN THE SPECIFICATIONS.
 - LOCATING WIRE SHALL BE COATED TO GAUGE SOLID COPPER.
 - LOCATING WIRE SHALL BE PLACED ABOVE AND CENTERED OVER ALL NON-METALLIC PIPE AND OVER ALL METALLIC PIPE USING 12" LONG JOINTS WITHOUT BONDING STRIPS.
 - LOCATING WIRE SHALL BE PLACED OVER ALL SERVICE LINES INCLUDING PRIVATE SERVICE LATERALS AND AIR RELEASE VALVE LATERALS.
 - ALL CONNECTORS FOR SPLICES AND OTHER CONNECTIONS TO THE LOCATING WIRES SHALL BE MADE WITH SPLIT BOLT OR PARALLEL CONNECTORS (NO WIDE NUTS). ALL SPLICES AND CONNECTIONS AND THE CONNECTOR SHALL BE WRAPPED THROUGHOUT WITH WATL ELECTRICAL TAPE. DISTRICT USES CRIMP CONNECTORS.
 - VALVE LOOPS ARE REQUIRED FOR ONLY ONE (1) VALVE IN A CLUSTER OF VALVES PROVIDING THEY ARE ALL WITHIN A 2' RADII.
 - ALL BLOWOFF VALVES AND AIR RELEASE LATERAL SHUTOFF VALVES (IF REQUIRED) SHALL BE INSTALLED WITH A LOCATING WIRE VALVE LOOP.
 - ALL LOCATING WIRE SHALL BE TESTED FOR CONTINUITY.
 - LOCATING WIRE SHALL BE CENTERED ON AND TAPED TO THE PIPE.

LOCATING WIRE

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