

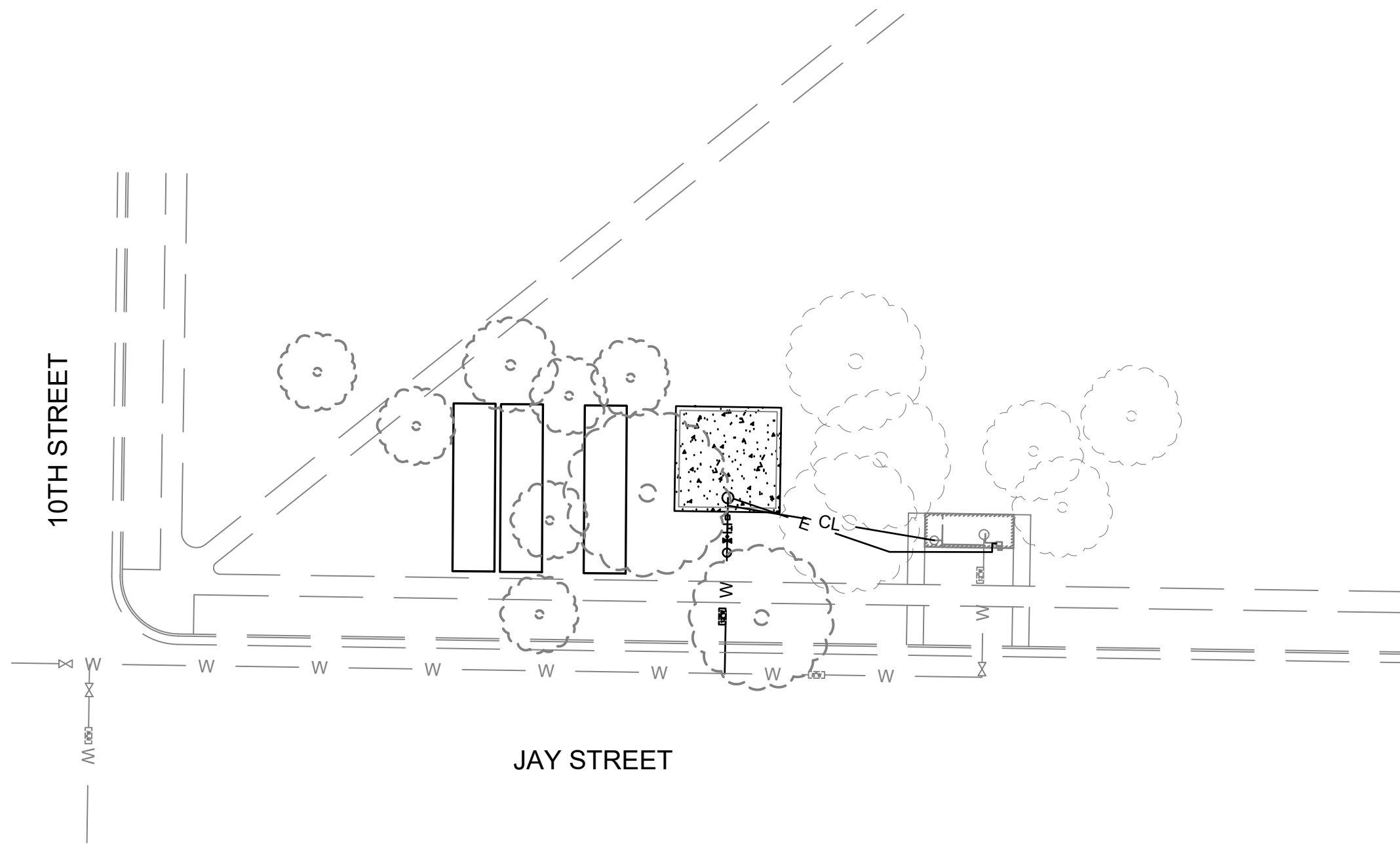
ABBREVIATIONS:

AC - ASPHALT CONCRETE	MH - MANHOLE
AB - AGGREGATE BASE	MON. - MONUMENT
APPROX. - APPROXIMATELY	OG - ORIGINAL GROUND
ARV - AIR RELEASE VALVE	P. - PROPOSED
AVE. - AVENUE	PC - POINT OF CURVATURE
BC - BEGIN CURVE	PCC - PORTLAND CEMENT CONC.
BFV - BACKFLOW VALVE	PL - PROPERTY LINE
C&G - CURB AND GUTTER	PP - POWER POLE
CL - CENTER LINE	PRV - PRESSURE REDUCING VALVE
C.O.T.G. - CLEAN OUT TO GRADE	PT - POINT OF TANGENCY
CR - CURB RETURN	PUE - PUBLIC UTILITY ESMT.
CULV. - CULVERT	R/W - RIGHT-OF-WAY
DTL. - DETAIL	SCH - SCHEDULE
D/W - DRIVEWAY	SD - STORM DRAIN
EC - END CURVE	SHT - SHEET
EL - ELEVATION	SS - SANITARY SEWER
ELB - ELBOW	ST. - STREET
EP - EDGE OF PAVEMENT	STA. - STATION
ESMT. - EASEMENT	STD. - STANDARD
EX. - EXISTING	S/W - SIDEWALK
EXP. - EXPIRES	TBC - TOP BACK OF CURB
F.E.S. - FLARED END SECTION	TBW - TOP BACK OF WALK
FH - FIRE HYDRANT	TOE - TOE OF SLOPE
FL - FLOW LINE	TOP - TOP OF SLOPE
FLG - FLANGE	TP - TELEPHONE POLE
FM - SEWER FORCE MAIN	VERT. - VERTICAL
FND. - FOUND	w/ - WITH
GB - GRADE BREAK	W - WATER
HORIZ. - HORIZONTAL	WM - WATER METER
HP - HIGH POINT	WSP - WELDED STEEL PIPE
INTX. - INTERSECTION	WV - WATER VALVE
INV. - INVERT	
I.P. - IRON PIPE	
JP - JOINT POLE	
LIP - LIP OF GUTTER	

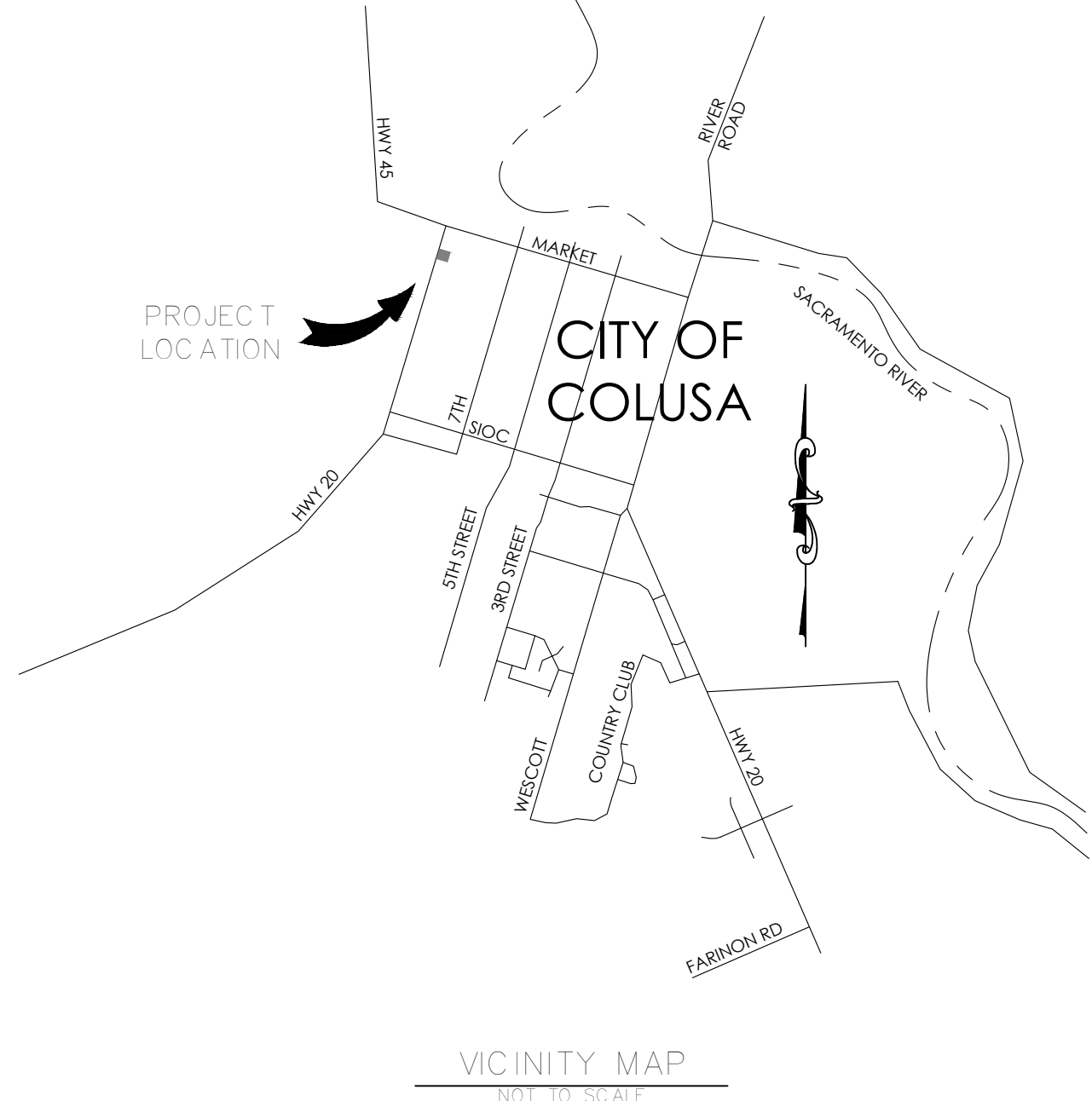
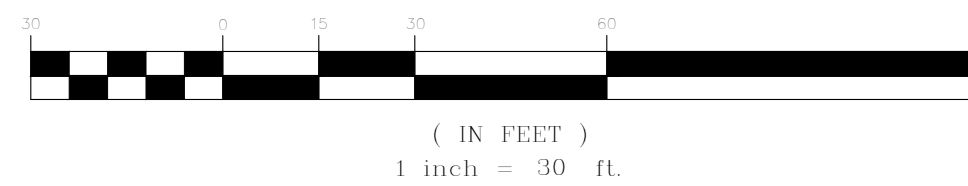
CITY OF COLUSA WELL NO. 6A CIVIL IMPROVEMENT PLANS

CITY OF COLUSA, COUNTY OF COLUSA, CALIFORNIA

FEBRUARY 2025



GRAPHIC SCALE



VICINITY MAP
NOT TO SCALE

SHEET INDEX:

- G1 COVER SHEET
- G2 GENERAL NOTES & LEGENDS
- C1 SITE PLAN - CITY WELL #6A
- C2 WELL DETAILS
- C3 WELL DETAILS
- E1 SITE POWER PLAN

CONTRACTOR TO CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600, 48 HOURS IN ADVANCE OF EXCAVATION

UTILITY REPRESENTATIVES

UTILITY	COMPANY	CONTACT	PHONE
SEWER	CITY OF COLUSA PUBLIC WORKS	STAFF	(530) 458-4941
DRAINAGE	CITY OF COLUSA PUBLIC WORKS	STAFF	(530) 458-2215
WATER	CITY OF COLUSA PUBLIC WORKS	STAFF	(530) 458-4941
IRRIG. WATER	CITY OF COLUSA PUBLIC WORKS	STAFF	(530) 458-4941
FIRE	COLUSA FIRE DEPARTMENT	STAFF	(530) 458-5890
CABLE TV	COMCAST	AGENT	(800) 934-6489
ELECTRICAL	PACIFIC GAS & ELECTRIC (PG&E)	STAFF	(877) 743-7782
GAS	PACIFIC GAS & ELECTRIC (PG&E)	STAFF	(877) 743-7782
PHONE	AT&T	STAFF	(855) 637-9525
USA	UNDERGROUND SERVICE ALERT	STAFF	(800) 227-2600

CEC GENERAL NOTES

- 1.) ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, CITY OF COLUSA STANDARD PLANS AND SPECIFICATIONS, AND TO THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION. THE CONTRACTOR SHALL OBTAIN A COPY OF THE CITY'S IMPROVEMENT AND CONSTRUCTION STANDARDS PRIOR TO CONSTRUCTION. IN THE ABSENCE OF A SPECIFICATION FOR AN ITEM IN THESE PLANS AND THE CITY OF COLUSA STANDARD PLANS AND SPECIFICATIONS, ALL APPLICABLE FEDERAL AND STATE LAWS ARE TO BE ADHERED TO AND MEET CURRENT ENGINEERING AND CONSTRUCTION STANDARD PRACTICES TO THE SATISFACTION OF THE CITY ENGINEER.
- 2.) THE TYPES, LOCATIONS, SIZES, AND DEPTHS OF EXISTING UTILITIES WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATIONS WILL REVEAL SUCH INFORMATION. A REASONABLE EFFORT WAS MADE TO DELINEATE UTILITIES, HOWEVER, CALIFORNIA ENGINEERING COMPANY, INC. ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE LOCATION OF THE EXISTING UTILITIES ON THE PLANS, NOR FOR OTHER UTILITIES THAT MAY BE ENCOUNTERED. THE CONTRACTOR IS HEREBY NOTIFIED THAT HE IS RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF ALL UTILITIES AT THE CONSTRUCTION SITE. IN THE EVENT THAT SUBSTANTIAL DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER FOR DIRECTION.
- 3.) IN THE EVENT THERE IS A DISCREPANCY OR TYPOGRAPHICAL ERROR WITHIN THESE PLANS, OR REQUEST FOR INFORMATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR DIRECTION. THE CONTRACTOR IS HEREBY NOTIFIED THAT THE ENGINEER SHALL BE ALLOWED A MINIMUM OF TWO WORKING DAYS TO ADDRESS THE ISSUE.
- 4.) ONLY SIGNED PLANS BY ALL PARTIES INVOLVED SHALL BE CONSIDERED APPROVED. THE CONTRACTOR SHALL NOT BEGIN WORK BEFORE THE PLANS HAVE BEEN APPROVED. THE CONTRACTOR SHALL HAVE ALL PERMITS AND APPROVED PLANS ON-SITE AT ALL TIMES DURING CONSTRUCTION.
- 5.) THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT BEFORE DIGGING (800-227-2600) AT LEAST 72 HOURS BEFORE BEGINNING WORK.
- 6.) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WORK WITH ALL SUBCONTRACTORS, UTILITY COMPANIES, AND THE CITY OF COLUSA.
- 7.) THE CONTRACTOR SHALL CONTACT THE CITY OF COLUSA PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS IN ADVANCE/PRIOR TO COMMENCEMENT OF WORK.
- 8.) ADJACENT STREET FRONTAGES SHALL BE SWEEPED AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES.
- 9.) ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL REQUIRED TESTS SHALL BE COORDINATED AND APPROVED BY THE PROJECT ENGINEER AND CITY OF COLUSA.
- 10.) ADDITIONAL NOTES AND DETAILS ARE LOCATED ON THE FOLLOWING SHEETS.
- 11.) OWNER, NOT THE ENGINEER, SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL LOCAL, STATE, AND FEDERAL APPROVALS AND PERMITS ASSOCIATED WITH WORK SHOWN IN THESE PLANS, AND ASSUMES ALL LIABILITY ASSOCIATED THEREWITH.
- 12.) CONTRACTOR TO FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS ON ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF ANY PIPE.

CALIFORNIA ENGINEERING COMPANY, INC.

SUBMITTED BY:
M Hewitt
MARISA HEWITT, P.E. # 91572
PROJECT ENGINEER
P.E. EXP. 09/30/2026
February 18, 2025
DATE

CITY OF COLUSA PUBLIC WORKS

APPROVED BY:
Jesse Cain
JESSE CAIN
PUBLIC WORKS
February 18, 2025
DATE

CITY OF COLUSA

APPROVED BY:
D L Swartz
DAVID L. SWARTZ, P.E. # C52840 - P.L.S. # 8401
CITY ENGINEER
P.E. EXP. 12/31/2026 - P.L.S. EXP. 06/30/2026
February 18, 2025
DATE

NO.	DATE	DESCRIPTION
2/18/2025	1"=30'	MARH
DATE:	SCALE:	DRAWN BY:
DESIGNED BY:	CHECKED BY:	DLS
<p>CALIFORNIA ENGINEERING COMPANY, INC. ESTD. 1968 CIVIL ENGINEERING LAND SURVEYING FUNDING PROCUREMENT CONSTRUCTION ADMINISTRATION www.cecausa.net 1110 Civic Center Blvd., Suite 404 Yuba City, CA 95993 (530) 751-0952 Office</p>		
PROJECT NUMBER 25-101	CITY OF COLUSA COVER	WELL NO. 6A CIVIL PLANS
SHEET G1 OF 5		

CEC GENERAL NOTES

- 1.) THE CONSTRUCTION CONTRACTOR SHALL AGREE, THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CONSULTING ENGINEER AND THE CITY OF COLUSA HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CONSULTING DESIGN PROFESSIONAL OR THE CITY OF COLUSA.
- 2.) ALL CONSTRUCTION MATERIALS, METHODS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF COLUSA PUBLIC WORKS IMPROVEMENT STANDARDS, ADOPTED LATEST EDITION OF CAL TRANS CONSTRUCTION SPECIFICATIONS (RANK SHALL BE IN ABOVE LISTED ORDER WHERE DISCREPANCIES EXIST), ALL WORK IS SUBJECT TO THE APPROVAL OF CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. CERTIFICATION FOR CONFORMANCE WITH CITY SPECIFICATIONS WILL BE REQUIRED FOR ALL MATERIALS USED ON THE PROJECT UNLESS SPECIFICALLY WAIVED BY THE CITY ENGINEER.
- 3.) THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER 72-HOURS PRIOR TO COMMENCING WORK AND 24-HOURS PRIOR TO RESUMPTION AFTER INTERRUPTION.
- 4.) THE CONTRACTOR SHALL OBTAIN ALL NECESSARY ENCROACHMENT PERMITS FOR THE PROJECT, AND BE IN RECEIPT OF SUCH PERMITS AND APPROVED PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 5.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODIES. FOR MORE INFORMATION, PLEASE CONTACT THE STATE INDUSTRIAL SAFETY DEPARTMENT (916-455-5818).
- 6.) THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO SEE THAT ALL SUBCONTRACTORS AND SUPPLIERS HAVE CURRENT COUNTY BUSINESS LICENSES. THE WORK WILL NOT BE ACCEPTED FOR COMPLETION UNTIL SUBMITTAL OF A COMPLETE LIST WITH LICENSE NUMBERS TO THE CITY ENGINEER.
- 7.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING PUBLIC AND PRIVATE IMPROVEMENTS WITHIN AND ADJACENT TO THE WORK AND SHALL ADEQUATELY BARRICADE PROJECT TO KEEP THE GENERAL PUBLIC FROM THE SITE. ANY DAMAGE TO CITY OR PRIVATE IMPROVEMENTS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO CURRENT CITY OF COLUSA STANDARDS.
- 8.) THE CONTRACTOR IS TO EXPOSE THE ENDS OF WATER MAINS, SEWER AND DRAIN LINES AND EXISTING GRAVITY LINES FOR THE SURVEYOR TO VERIFY LOCATION AND DEPTH OF FACILITIES PRIOR TO PLACEMENT OF PIPE.
- 9.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE CONSULTING ENGINEER IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE ENGINEER OR CITY ENGINEER, THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATIONS CAN BE MADE. ANY COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10.) THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT ON HIS BEHALF, ON THE JOB SITE DURING ALL WORKING HOURS.
- 11.) THE CITY OF COLUSA IS A MEMBER OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE CALL SYSTEM. THE CONTRACTORS SHALL NOTIFY THE U.S.A. CENTER 48-HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING 1-800-227-2600.
- 12.) THE CONTRACTOR SHALL MARK IN WHITE PAINT ALL AREAS TO BE EXCAVATED PRIOR TO CONTACTING U.S.A.
- 13.) CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT INSPECTOR A COPY OF THE COMPANY ANNUAL CALOSHA TRENCHING PERMIT AND A COPY OF THE COMPANIES LETTER INFORMING CALOSHA OF THE TIME OF TRENCHING PRIOR TO EXCAVATION OF TRENCHES 5' OR DEEPER.
- 14.) ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY'S NOISE ORDINANCE.
- 15.) IF ANY AMOUNT OF BONES, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 165 FEET OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED TO DEVELOP (IF NECESSARY) FURTHER MITIGATION MEASURES TO REDUCE ANY ARCHEOLOGICAL IMPACT TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
- 16.) CONTRACTOR SHALL PROVIDE THE CITY ENGINEER WITH SUBMITTALS FOR ALL MATERIALS TO BE USED. THE SUBMITTALS SHALL BE DELIVERED TO THE DEPARTMENT OF PUBLIC WORKS A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE.
- 17.) CERTIFICATION FOR CONFORMANCE WITH THE CITY OF COLUSA SPECIFICATIONS WILL BE REQUIRED OF ALL MATERIAL USED ON THE PROJECT UNLESS SPECIFICALLY WAIVED BY THE ENGINEER.
- 18.) CONTRACTOR SHALL ADEQUATELY BARRICADE PROJECT TO KEEP THE GENERAL PUBLIC FROM THE SITE.
- 19.) ALL APPLICABLE FEES TO BE PAID AND PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR BEFORE COMMENCEMENT OF CONSTRUCTION.
- 20.) A SOILS ENGINEER SHALL BE ENGAGED BY THE OWNER TO CERTIFY THAT THE VARIOUS ITEMS OF COMPACTION COMPLY WITH THE SPECIFICATIONS AND THAT SPECIAL WORK REQUIRED HAS BEEN DONE SATISFACTORILY.
- 21.) THE CONTRACTOR SHALL USE A WATER TRUCK WHEN REQUIRED TO MAINTAIN ADEQUATE DUST CONTROL.
- 22.) INTERMEDIATE TRENCH BACK FILL SHALL BE IN MAXIMUM LIFTS OF 8" AND SHALL HAVE A MINIMUM RELATIVE COMPACTION OF 90% OR AS DIRECTED BY THE SOILS ENGINEER. COMPACTION SHALL BE BY MECHANICAL MEANS.
- 23.) EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE PLANS AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- 24.) PRIOR TO THE BEGINNING OF EARTHWORK THE CONTRACTOR SHALL CLEAR ALL ROOTS, ORGANIC MATTER, DEBRIS, PAVING, CURB, AND VEGETATION DESIGNATED TO BE SAVED, FROM THE AREA WITHIN WHICH EXCAVATION AND GRADING ARE TO BE CONDUCTED OR STORAGE OF EXCAVATED MATERIALS OR FILL IS TO BE MADE. VEGETATION CLEARED FROM THESE AREAS SHALL BE DISPOSED OF BY THE CONTRACTOR, AND INCLUDED IN THE COST OF CLEARING AND GRUBBING.
- 25.) IN TRANSITION AREAS FROM ONE STREET WIDTH TO ANOTHER STREET WIDTH, THE HEAVIER STRUCTURAL SECTION SHALL BE USED.
- 26.) DIMENSIONS SHOWN ON PLANS ARE TO CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED.

CEC GENERAL NOTES CONTINUED

- 28.) SEWER AND WATER AND SERVICES TO HAVE A MINIMUM 10 FEET HORIZONTAL SEPARATION.
- 29.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES.
- 30.) CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND DEPTH. THE TYPES, LOCATIONS, SIZES AND DEPTH OF EXISTING UTILITIES WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY EXCAVATIONS WILL REVEAL ACTUAL INFORMATION. A REASONABLE EFFORT WAS MADE TO DELINEATE UTILITIES. HOWEVER, CALIFORNIA ENGINEERING COMPANY ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS, NOR ACCURACY, NOR FOR OTHER UTILITIES WHICH MAY BE ENCOUNTERED. THE CONTRACTOR IS HEREBY NOTIFIED THAT THEY ARE RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF ALL UTILITIES AT THE CONSTRUCTION SITE. IN THE EVENT CONFLICTS EXIST OR SUBSTANTIAL DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY AND ALLOW 2 WORKING DAYS FOR CHANGE TO BE MADE, COORDINATED AND APPROVED.
- 1.) A SOILS ENGINEER SHALL CERTIFY THAT THE VARIOUS ITEMS OF COMPACTION AND MATERIALS HAVE BEEN ACCOMPLISHED. GRADING SHALL CONFORM TO CHAPTER 70 UBC, LATEST EDITION, AND TO THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEERING REPORT, AND CITY REQUIREMENTS, WHICH EVER IS GREATER.
- 2.) ALL COMPACTION TESTING SHALL BE PERFORMED BY A LICENSED GEOTECHNICAL ENGINEER IN ACCORDANCE WITH THE GEOTECHNICAL AND CITY SPECIFICATIONS AND BE PAID FOR BY THE DEVELOPER (OR CONTRACTOR IN CASE OF RE-TESTING). THOSE TESTS WITHIN THE RIGHT-OF-WAY SHALL BE APPROVED BY THE CITY OF COLUSA AND ALL TESTING OUTSIDE THE RIGHT-OF-WAY CERTIFIED BY THE SOILS ENGINEER FOR THE PROJECT. THE RESULTS OF SOIL COMPACTION TESTING SHALL BE SUBMITTED TO THE CITY 8-MONTHLY.
- 3.) ALL UNSUITABLE AND SURPLUS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED.
- 4.) SUFFICIENT EQUIPMENT SHALL BE AVAILABLE TO PROVIDE DUST CONTROL AT ALL TIMES DURING CONSTRUCTION. A WATER TRUCK SHALL BE USED, WHEN REQUIRED, TO MAINTAIN ADEQUATE DUST CONTROL. AREAS SURROUNDING THE WORK SHALL BE KEPT CLEAN AND RETURNED TO ORIGINAL CONDITION UPON COMPLETION OF THE CONTRACT. THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT WATER METER PRIOR TO COMMENCEMENT OF WORK.
- 5.) ROUTES TO THE PROJECT SITE FOR HEAVY EQUIPMENT AND MATERIAL SHALL BE APPROVED BY THE CITY ENGINEER.
- 6.) EROSION CONTROL HYDROSEEDING SHALL BE APPLIED TO ALL GRADED OR DISTURBED SOILS WITHIN THE WORK AREA AFTER COMPLETION OF IMPROVEMENTS OR IF PRACTICAL AFTER GRADING ALSO TO REDUCE DUST.
- 7.) WINTERIZATION NOTE *THE FOLLOWING ARE REQUIRED IF GRADING AND CLEARING IMPROVEMENTS ARE INCOMPLETE BY OCTOBER 15TH: EROSION PROTECTION ON SLOPES 10:1 OR STEEPER AND SWALES WITH SLOPES 2% OR GREATER. NO SEDIMENT SHALL LEAVE THE PROJECT AREA. GRADE GUTTER SAG POINTS TO DRAIN. PROVIDE FOR DRAINAGE OF IMPROVEMENTS. PREVENT SEDIMENTATION IN EXISTING STORM DRAIN SYSTEM AND CLEAN PIPES PER SECTION S560-05 (CAL-TRANS SPECS). SEAL OFF ALL SANITARY SEWER CONNECTION TO EXISTING SYSTEMS. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN WINTERIZATION FACILITIES AT ALL TIMES OR UNTIL IMPROVEMENTS ARE FINAL.
- 8.) ALL EROSION CONTROL SHALL BE PLACED AS SPECIFIED ON THESE PLANS OR AS SHOWN ON THE SWPPP.
- 9.) TARPAULINS OR OTHER EFFECTIVE COVERS SHALL BE USED ON ALL STOCKPILED EARTH MATERIAL AND ON HAUL TRUCKS TO MINIMIZE DUST.
- 10.) THE CITY SHALL HAVE THE AUTHORITY TO STOP ALL GRADING OPERATIONS, IF, IN THE OPINION OF CITY STAFF, INADEQUATE DUST CONTROL MEASURES ARE BEING PRACTICED OR EXCESSIVE WIND CONDITIONS CONTRIBUTE TO FUGITIVE DUST EMISSIONS.
- 11.) ADJACENT STREET FRONTAGES SHALL BE SWEEPED AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES.
- 12.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT, AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE.
- 13.) PRIOR TO INITIATING CLEARING AND GRUBBING ALL PROTECTIVE FENCING SHALL BE INSTALLED.

CONSTRUCTION STAKING

- 1.) THE SURVEYOR FOR THIS PROJECT SHALL PROVIDE ONE (1) SET OF CONSTRUCTION STAKES FOR LINE AND GRADE UNLESS OTHERWISE REQUESTED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- 2.) IN THE EVENT OF A DISAGREEMENT OR DESTROYED STAKE OR MONUMENT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SURVEYOR PRIOR TO ANY FURTHER CONSTRUCTION. SURVEYOR: CALIFORNIA ENGINEERING COMPANY, INC.
- 3.) THE CONTRACTOR SHALL GIVE THE SURVEYOR 72-HOURS NOTICE PRIOR TO EACH PHASE OF CONSTRUCTION OR IN THE EVENT OF NEEDED RESTAKING. PRIOR TO REQUESTING ACCEPTANCE OF IMPROVEMENTS, THE SURVEYOR FOR THIS PROJECT SHALL SET SURVEY MONUMENTS AS SPECIFIED IN THE IMPROVEMENT STANDARDS.
- 4.) THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS.
- 5.) THE CONTRACTOR SHALL HAVE THE SITE STAKED PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS TO ENSURE PROPER ALIGNMENTS AND ELEVATIONS. CEC WILL ONLY ENSURE ACCURACY ON ALIGNMENTS AND ELEVATIONS IF IT IS HIRED TO PERFORM CONSTRUCTION STAKING. CEC SHALL NOT BE HELD RESPONSIBLE FOR ALIGNMENT AND ELEVATION ACCURACY IF ANOTHER FIRM PERFORMS THE CONSTRUCTION STAKING.

WATER FACILITIES NOTES

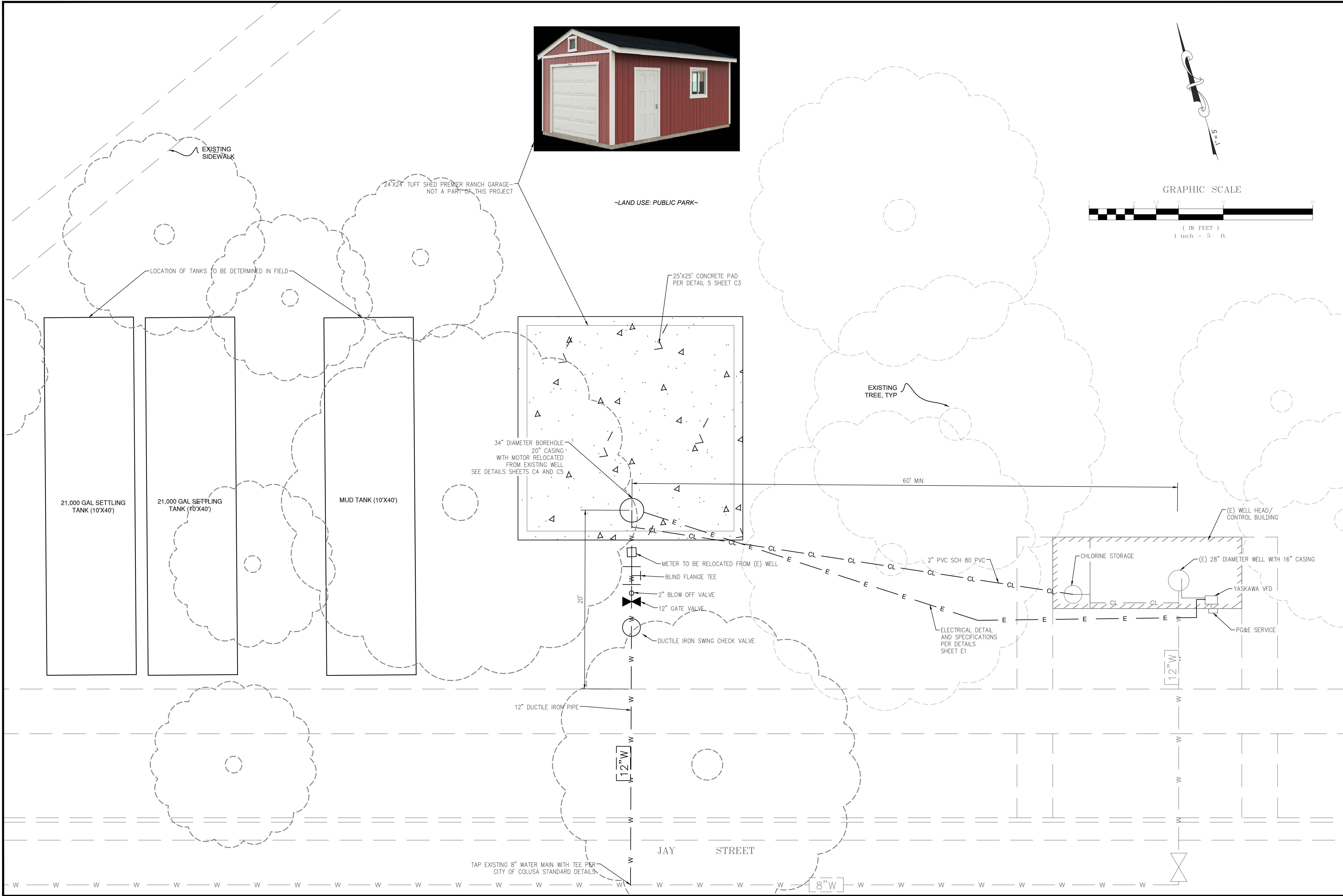
- 1.) ALL WATER FACILITIES INCLUDING BUT NOT LIMITED TO LINES, SERVICE BOXES, VALVES, AND ALL MISCELLANEOUS APPURTENANCES SHALL CONFORM TO THE CITY OF COLUSA PUBLIC WORKS IMPROVEMENT STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION, REQUIREMENTS, AND DRAWINGS NECESSARY TO BID AND COMPLETE THE WORK SHOWN ON THESE PLANS AND INSTALLED PER MANUFACTURERS SPECIFICATIONS. PIPE ALTERNATIVES SHALL BE: POLYVINYL CHLORIDE PIPE - AWWA - C900 CLASS 150 DUCTILE - IRON PIPE - AWWA 151 CLASS 50.
- 2.) FIRE HYDRANTS SHALL BE APPROVED BY THE CITY ENGINEER AND COLUSA FIRE DEPARTMENT.
- 3.) ALL RUNS OF SEWER FORCE MAIN AND WATER MAIN PIPE SHALL HAVE NO.10 GAUGE, SOLID INSULATED SOFT-DRAWN COPPER WIRE TAPED ALONG THE TOP OF PIPE. THE WIRE SHALL BE STUBBED UP INSIDE EACH VALVE BOX AND DEAD END BLOWOFF ASSEMBLY AND BE INSTALLED AS PER STANDARD DRAWING ASSEMBLY W-5. ALL SPLICES SOLDERED AND SHRINK-WRAPPED OR TAPPED.
- 4.) AT UTILITY CROSSING MAINTAIN A MINIMUM 12" VERTICAL CLEARANCE BETWEEN WATER LINES AND ALL OTHER FACILITIES. ALL SEWER/WATER CROSSINGS, INCLUDING SERVICES, SHALL CONFORM TO STATE HEALTH DEPARTMENT REQUIREMENTS WITH 10' MINIMUM HORIZONTAL CLEARANCE.
- 5.) ALL VALVES SHALL BE FLANGED TO TEES AND/OR CROSSES. ALL MAINLINE VALVES 16-INCH AND LARGER SHALL BUTTERFLY VALVES WHERE VALVE NUT IS GREATER THAN 30-INCH BELOW FINISHED GRADE. A VALVE OPERATING EXTENSION SHALL BE REQUIRED.
- 6.) ALL WATER SERVICES SHALL BE PER CITY OF COLUSA STANDARDS.
- 7.) WATER METER BOXES AND COVERS SUBJECT TO TRAFFIC SHALL BE REINFORCED CONCRETE.
- 8.) SERVICE CONNECTION TO EXISTING WATER MAIN (S), OR TO AN EXTENSION OF AN EXISTING WATER MAIN (S), WILL BE MADE BY A QUALIFIED CONTRACTOR. THE CONTRACTOR SHALL NOTIFY CITY 72 HOURS IN ADVANCE, SCHEDULE AND PROCEED WITH THE SERVICE CONNECTION WITH MINIMUM INTERFERENCE TO EXISTING WATER AND FIRE SERVICES. AN INSPECTION BY THE CITY CONSTRUCTION INSPECTOR OF ALL CONNECTIONS MADE BY THE CONTRACTOR IS REQUIRED PRIOR TO BACKFILLING.
- 9.) PIPE JOINTS WILL NOT BE ALLOWED WITHIN SIX FEET (6') OF VALVE, FITTING OR HYDRANT.
- 10.) UNDER NO CIRCUMSTANCES SHALL PIPE OR JOINT DEFLECTION EXCEED MANUFACTURERS RECOMMENDATION. DEFLECTION OF PIPE WILL NOT BE ALLOWED WITHIN TEN FEET (10') OF ANY FITTING OR VALVE.
- 11.) STANDARD PIPE LENGTHS (MINIMUM EIGHTEEN (18) TO TWENTY (20) FEET, SHALL BE USED FOR ALL HORIZONTAL AND VERTICAL DEFLECTIONS. PIPE LENGTHS LESS THAN STANDARD LENGTH SHALL BE APPROVED BY THE CITY ENGINEER.
- 12.) IN THE EVENT THAT THIS PROJECT INDICATES THAT WATER MAINS WILL BE CONSTRUCTED WITHOUT THE PROTECTION OF AN OVERLAYING PAVEMENT, PLASTICIZED METALLIC LOCATING TAPE SHALL BE PLACED EIGHTEEN INCHES (18") ABOVE ALL SAID WATER MAINS.
- 13.) WATER SYSTEM CONTRACTOR SHALL COORDINATE WITH THE STREET LIGHTING CONTRACTOR TO AVOID CONFLICTS WITH WATER SERVICES AND STREET LIGHT FOUNDATIONS AND ELECTRICAL PULLBOXES.
- 14.) CONTRACT TO PROVIDE 72-HOUR NOTIFICATION TO THE CITY DEPARTMENT OF PUBLIC WORKS PRIOR TO DISINFECTION.
- 15.) ALL WATER LINE FITTINGS 11-1/2 DEGREE OR GREATER, TEES, CROSSES, DEAD ENDS AND REDUCERS/INCREASERS SHALL BE PROVIDED WITH BOTH THRUST BLOCKS AND RESTRAINED JOINT PIPE LENGTHS
- 16.) ALL BACKFLOW PREVENTERS SHALL BE TESTED AND A BACKFLOW PREVENTER CERTIFICATION PERFORMED BY AN AWWA LICENSED TESTER SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT.

LEGEND - PROPOSED

	ASPHALT
	FENCE
	BUILDING
	STORM DRAIN W/ INLET
	STORM DRAIN W/ INLET
	WATER LINE

PROJECT NUMBER	CITY OF COLUSA	GENERAL NOTES AND LEGENDS	WELL NO. 6A CIVIL PLANS	NO.	DATE	DESCRIPTION
25-101	WELL NO. 6A CIVIL PLANS	GENERAL NOTES AND LEGENDS	WELL NO. 6A CIVIL PLANS	2/18/2025	NONE	
				DRAWN BY: MRH	DESIGNED BY: MRH	CHECKED BY: DLS
SHEET G2 OF 5						
		CIVIL ENGINEERING LAND SURVEYING CALIFORNIA ENGINEERING FUNDING PROCUREMENT CONSTRUCTION ADMINISTRATION www.cecusa.net ESTD. 1968				
1110 Civic Center Blvd., Suite 404 Yuba City, CA 95693 (530) 751-0952 Office						

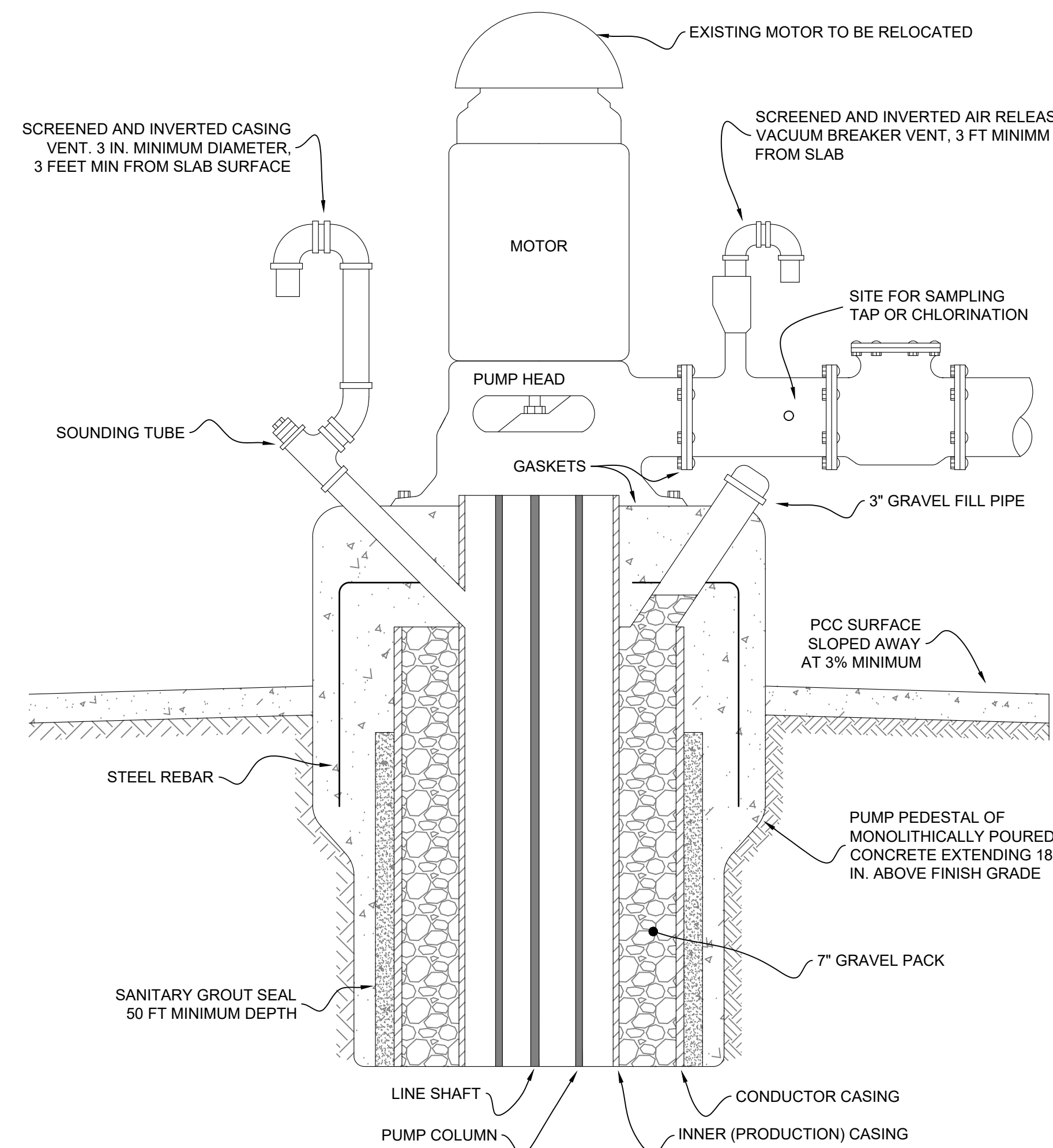
Y:\CEC\Job\Projects\25-101 Well No 6 Well Hole Design and test well CIP\Eng\Imp\Plan15-109 Improvement Plans.dwg Feb 18, 2025 02:00 pm mjayne



PROJECT NUMBER 25-101	CITY OF COLUSA		CALIFORNIA ENGINEERING COMPANY INC CIVIL ENGINEERING LAND SURVEYING FUNDING PROCUREMENT CONSTRUCTION ADMINISTRATION www.cecausa.net ESTD 1968 1110 Civic Center Blvd, Suite 404 Yuba City, CA 95993 (530) 751-0952 Office	
	SITE PLAN - CITY WELL #6A WELL NO. 6A CIVIL PLANS			
SHEET C3 OF 5	DATE: 2/18/2025	NO.	DESCRIPTION	
	SCALE: 1"=5'			
	DRAWN BY: MRH			
	DESIGNED BY: MRH			
	CHECKED BY: DLS			

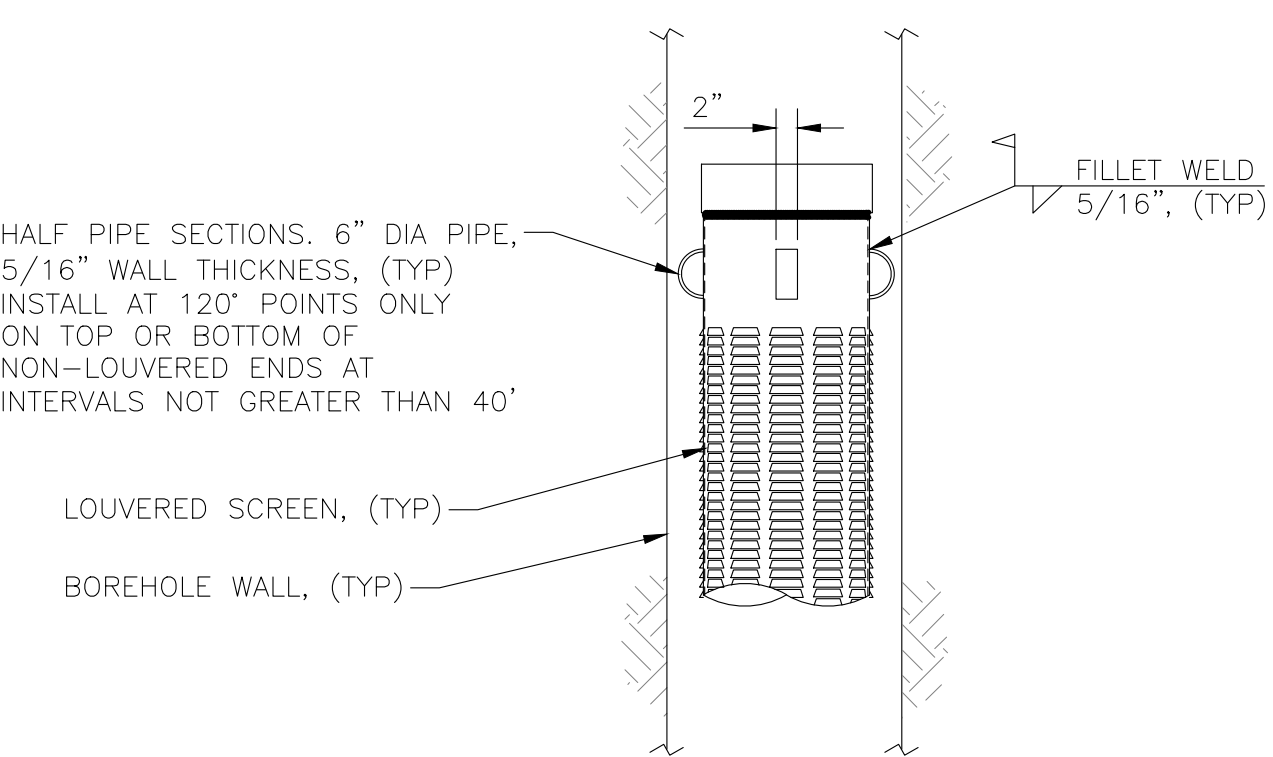
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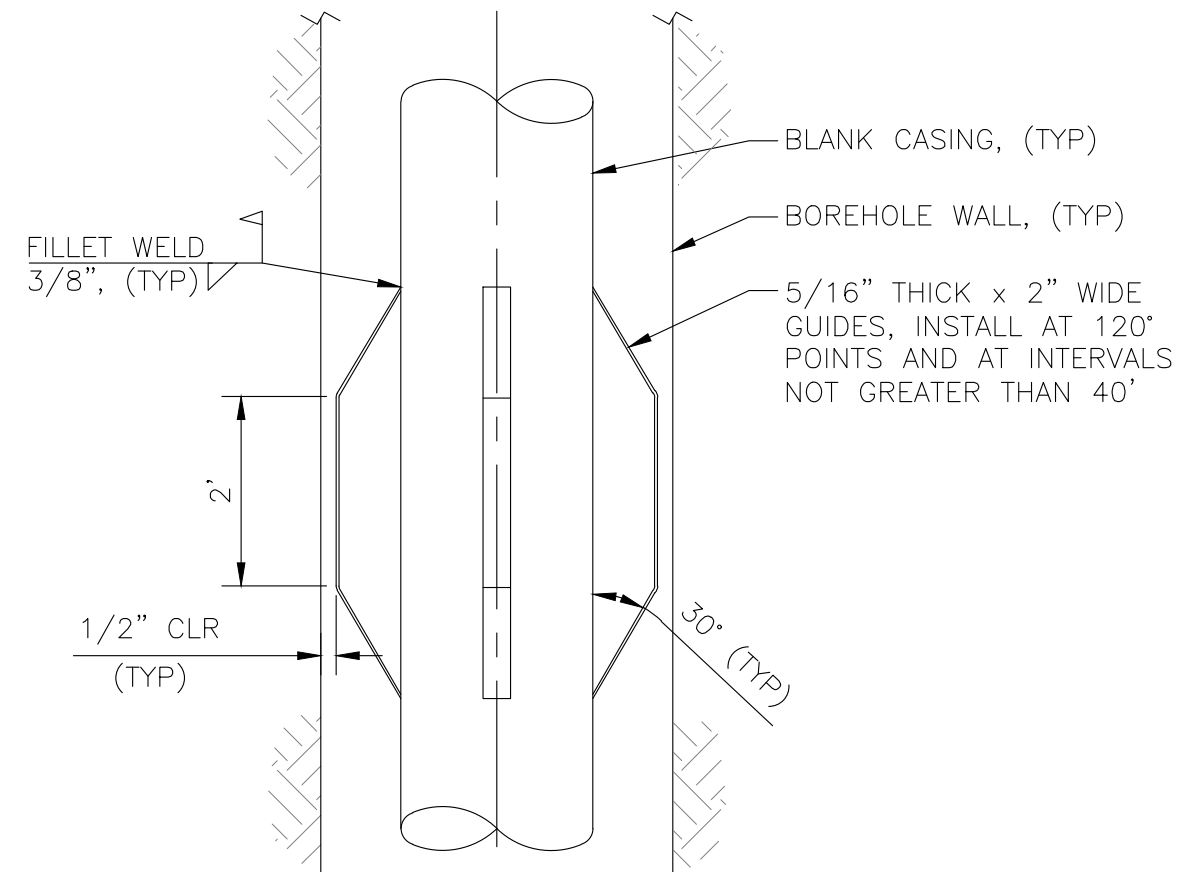


- NOTES:**
1. NO THREADED HOSE BIBB BETWEEN PUMP AND CHECK VALVE
 2. ALL VENT PIPES MUST BE COMPLETELY SEALED AT POINT OF ENTRY INTO WELL

1 WELL HEAD AND CASING DETAIL
NTS



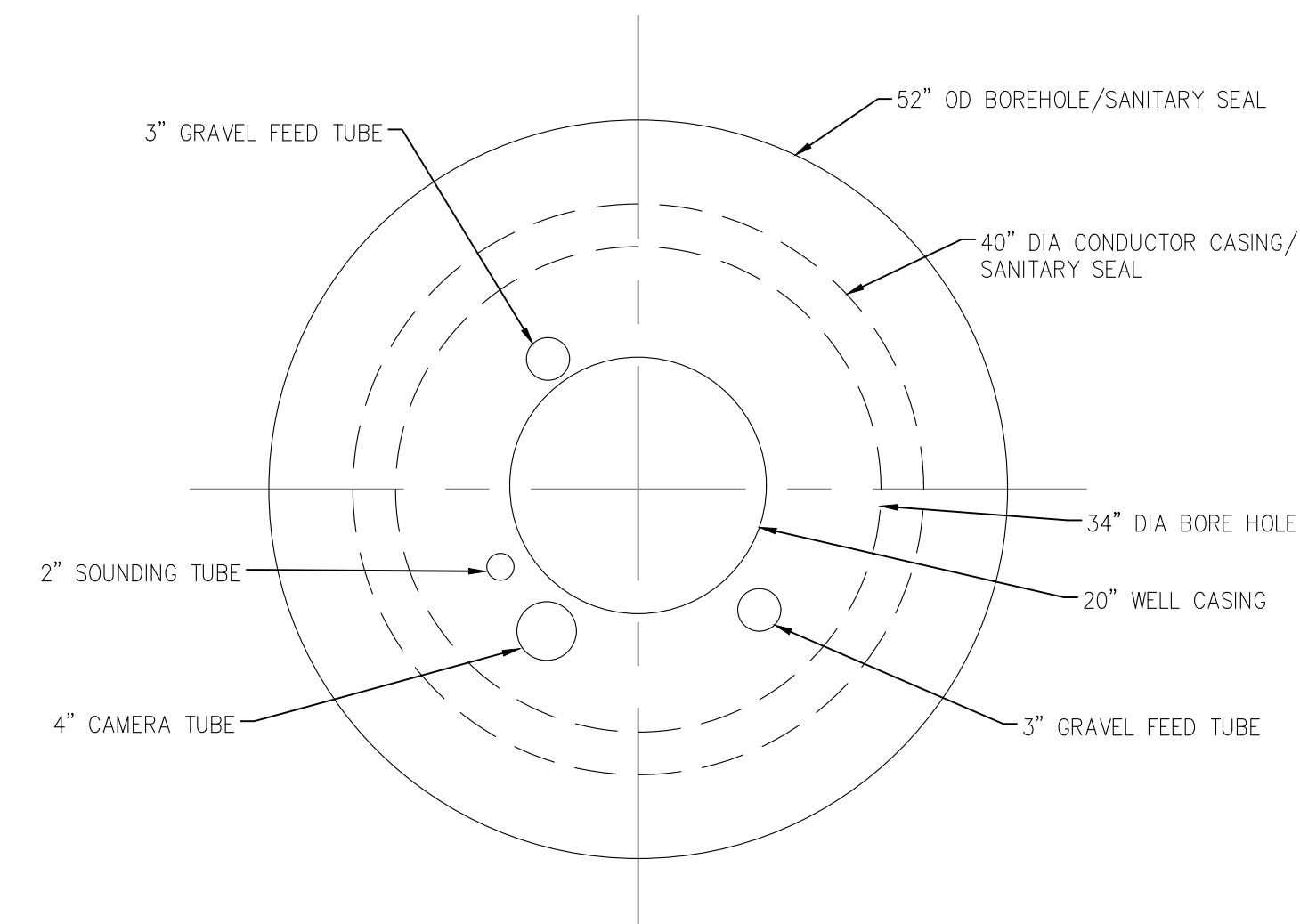
LOUVERED CASING



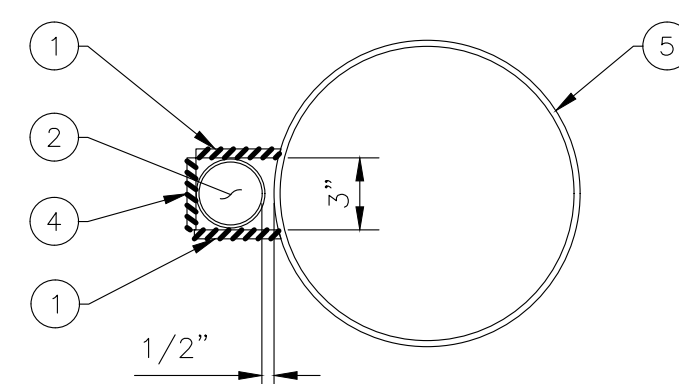
BLANK CASING

- NOTE:**
- ALL CENTRALIZER AND WELDING MATERIALS TO BE THE SAME TYPE AS THE CASING MATERIAL.

3 CASING CENTRALIZERS
NTS



2 WELL CASING AND TUBE LAYOUT PLAN VIEW
NTS

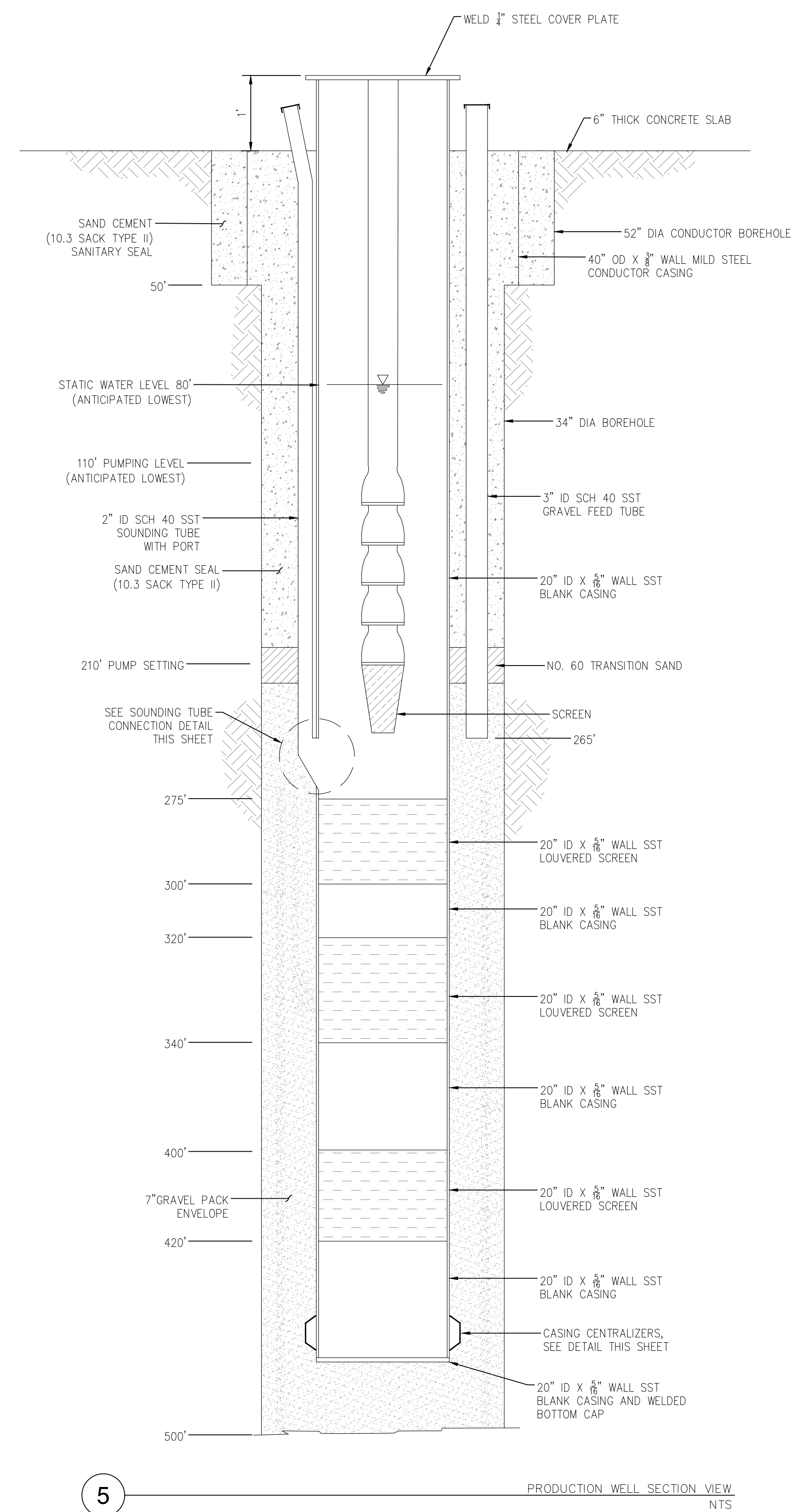


SECTION A-A



ITEM	DESCRIPTION
1	3-1/2" x 3/8" FLAT BAR SIDE PLATES
2	3" x 3/8" FLAT BAR TOP PLATE
3	2" NPS 304L WELD ON COUPLING
4	3" x 3/8" FRONT COVER
5	12.25" ID x 1/4" WALL TYPE 304L SST 304L STEEL CASING

- NOTES:**
1. ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.
 2. ALL PLATE MATERIAL 304L STAINLESS STEEL.

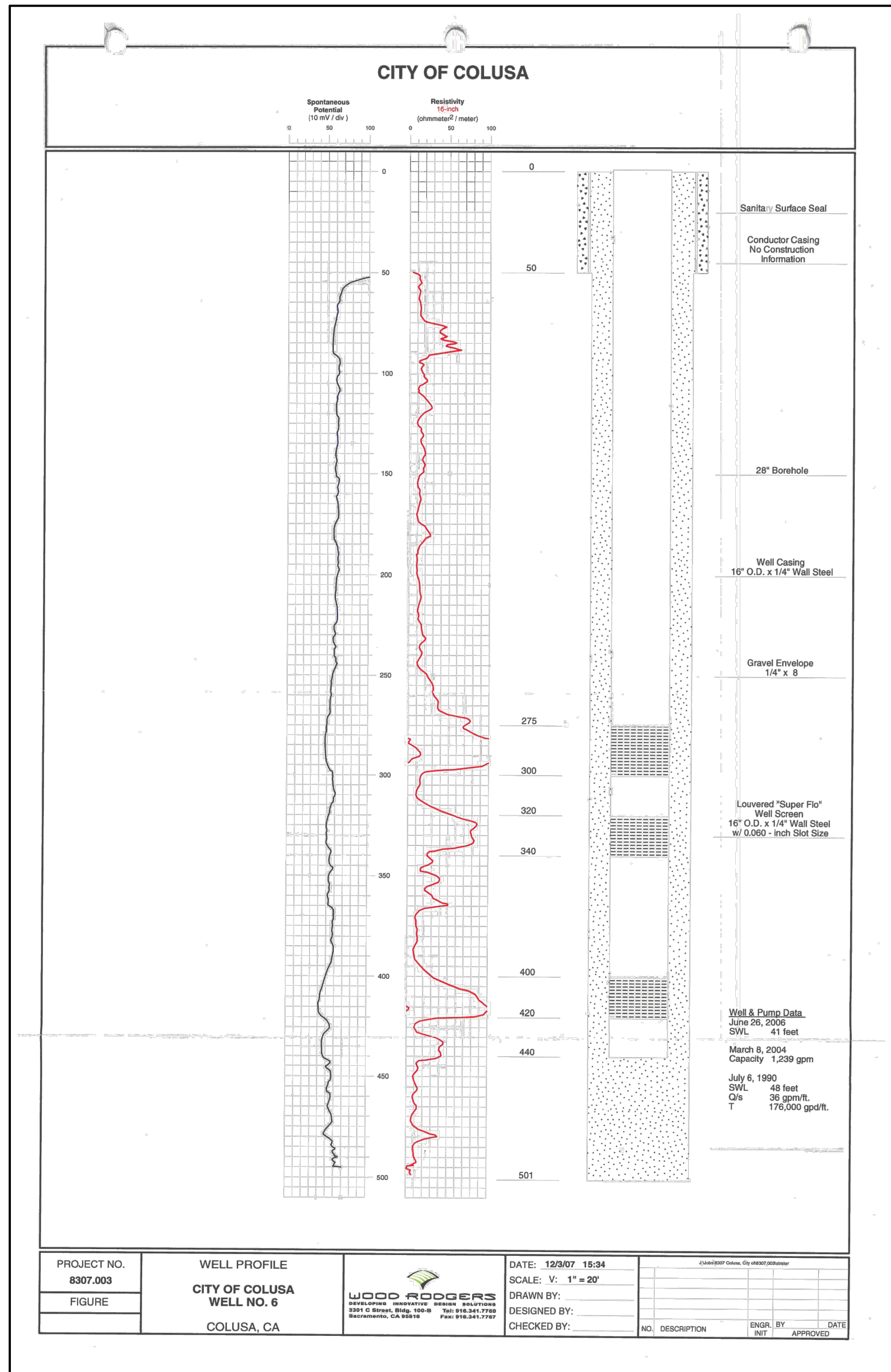
4 2" NPS SOUNDING TUBE CONNECTION
NTS



5 PRODUCTION WELL SECTION VIEW
NTS

PROJECT NUMBER 25-101	CITY OF COLUSA						NO.	DATE	
SHEET C2 OF 5	WELL DETAILS						DATE: 2/18/2025	SCALE: NONE	
WELL NO. 6A CIVIL PLANS								DRAWN BY: MRH	DESIGNED BY: MRH
 CALIFORNIA ENGINEERING COMPANY, INC. <small>ESTD. 1962</small>		CIVIL ENGINEERING LAND SURVEYING FUNDING PROCUREMENT CONSTRUCTION ADMINISTRATION www.cecausa.net						CHECKED BY: DLS	DATE: 2/18/2025
1110 Civic Center Blvd., Suite 404 Yuba City, CA 95993 (530) 751-0952 Office		California Engineering Company is not responsible for the accuracy or completeness of reproductions of this document generated by others from electronic media.							

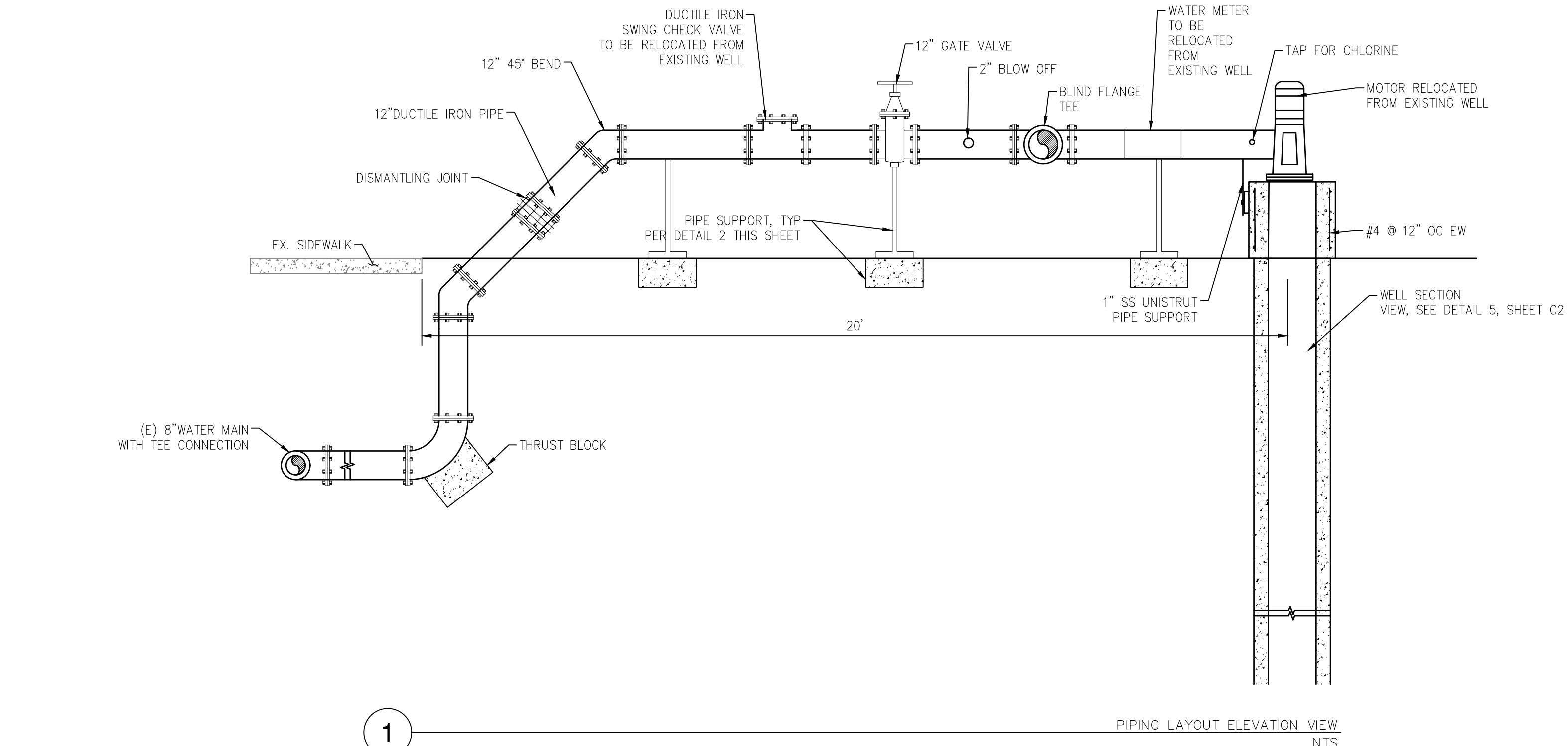
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4

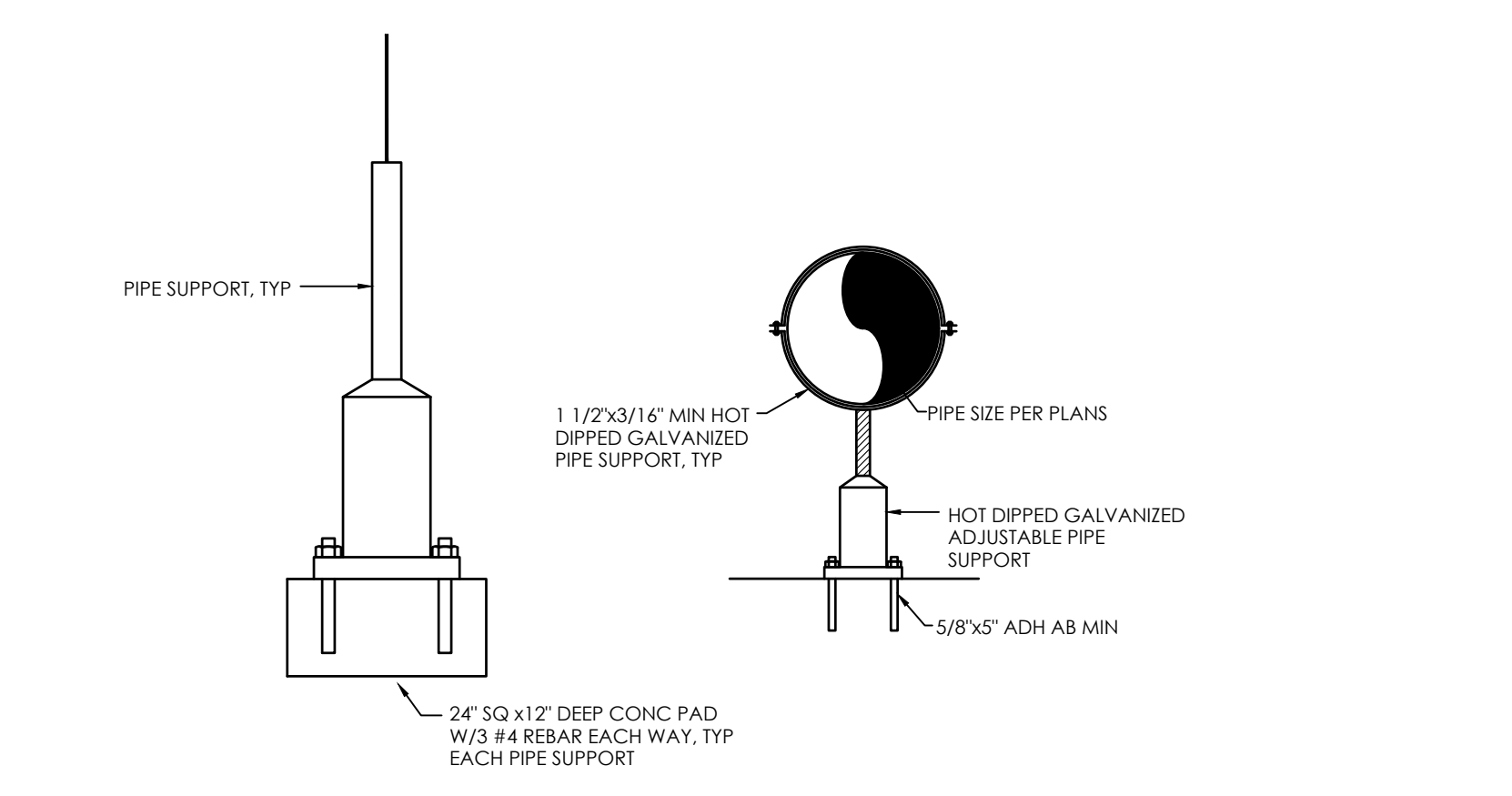
PREVIOUS WELL PROFILE LOG
NTS

PROJECT NO. 8307.003	WELL PROFILE CITY OF COLUSA WELL NO. 6 COLUSA, CA	 WOOD RODGERS CONSULTING ENGINEERS 2215 O Street, Suite 100-8 Sacramento, CA 95816 Tel: 916.441.7750 Fax: 916.241.7750	DATE: 12/3/07 15:34 SCALE: V: 1" = 20' DRAWN BY: DESIGNED BY: CHECKED BY:	<table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>ENGR. BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DESCRIPTION	ENGR. BY	DATE				
NO.	DESCRIPTION	ENGR. BY	DATE									



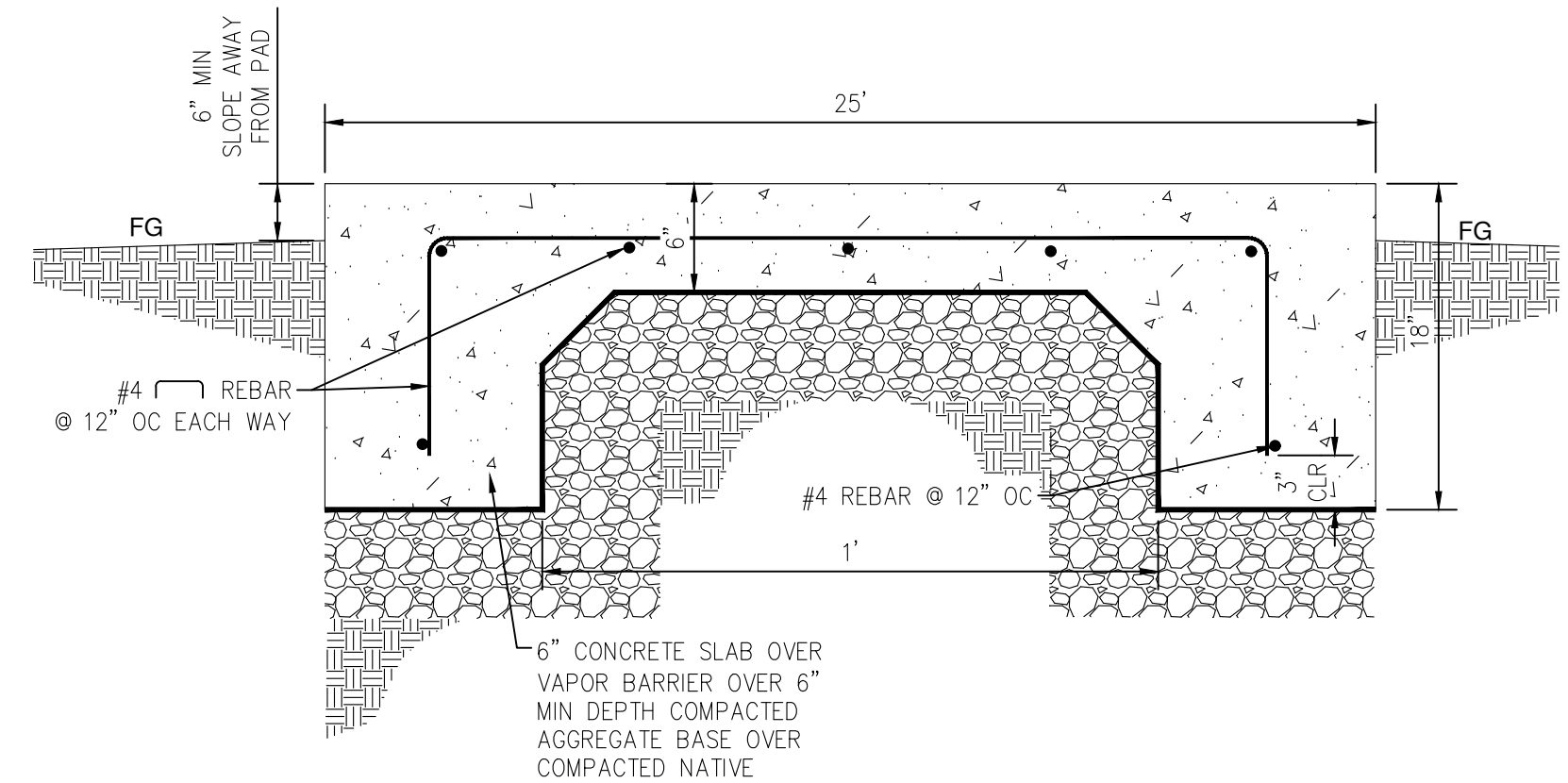
1

PIPING LAYOUT ELEVATION VIEW
NTS



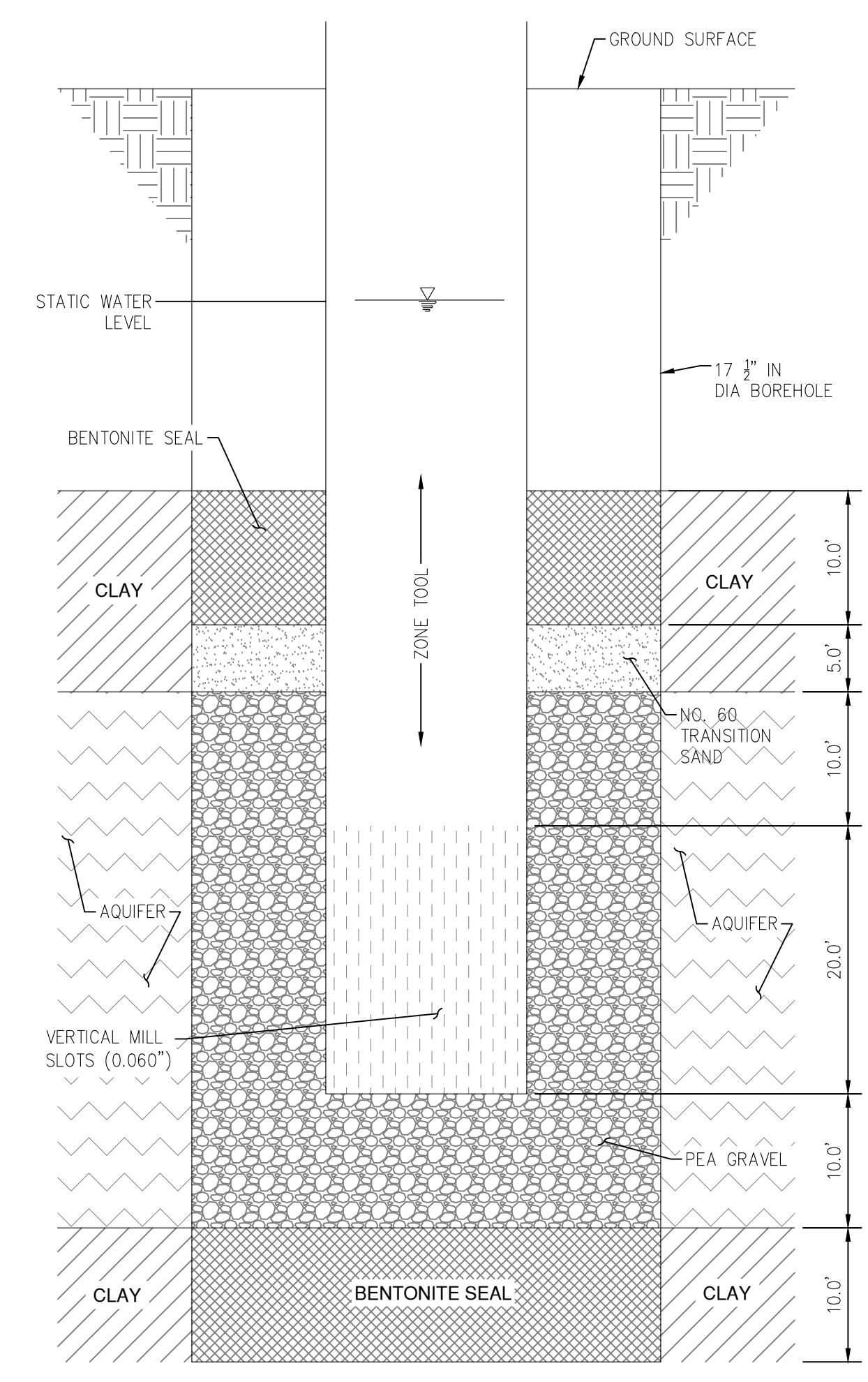
2

PIPE SUPPORT DETAIL
NTS



5

MONOLITHIC CONCRETE FOUNDATION
NTS



3

TYPICAL ISOLATED SAMPLE ZONE
NTS

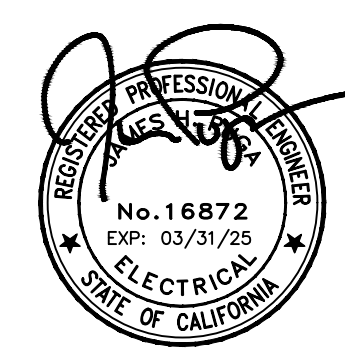
PROJECT NUMBER 25-101	SHEET C3 OF 5	CITY OF COLUSA WELL DETAILS WELL NO. 6A CIVIL PLANS	 CIVIL ENGINEERING LAND SURVEYING FUNDING PROCUREMENT CONSTRUCTION ADMINISTRATION www.cecusa.net ESTD. 1965 1110 Civic Center Blvd., Suite 404 Yuba City, CA 95993 (530) 751-0952 Office	DATE: 2/18/2025 SCALE: NONE DRAWN BY: MRH DESIGNED BY: MRH CHECKED BY: DLS	NO. 1 DATE:	DESCRIPTION:

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REVISIONS	BY

Project: COLUSA WELL #6 RELOCATION
 COLUSA, CA

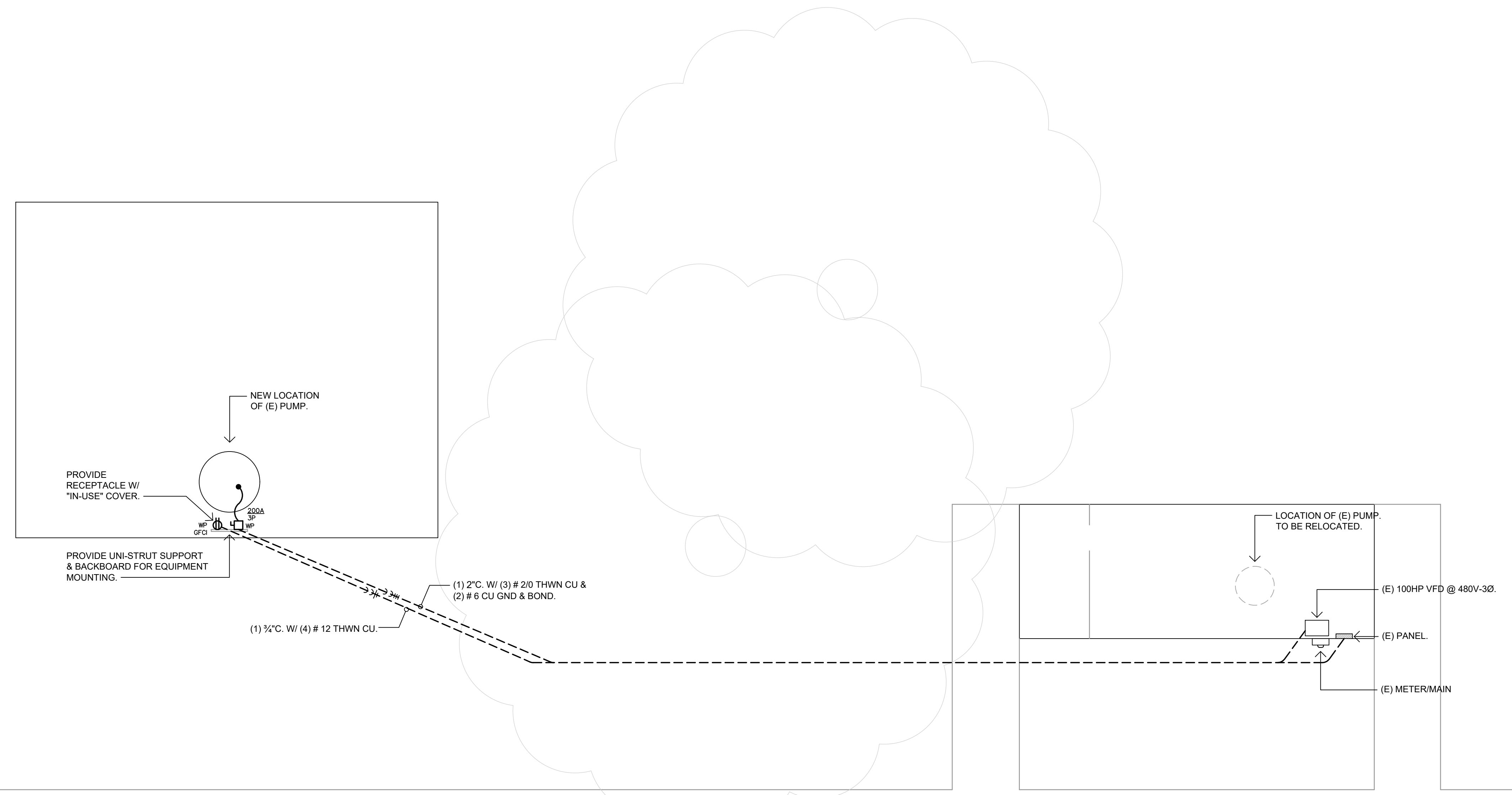
Drawing: SITE POWER PLAN



Date	02.11.25
Scale	AS NOTED
Drawn	JP
Job	25009
Sheet	E1.0
Of	Sheets

QUADRANT 'D' VOLTAGE DROP CALCS									
FROM	TO	VOLTAGE	TOTAL LOAD (W)	DISTANCE (FT)	TYPE	CONDUCTOR	# RUNS	VOLTAGE DROP	% Vd
VFD	WELL PUMP	480V-3Φ-3W	90,858	65	CU	2/0	1	1.24	0.26
PANEL	RECEPTACLE	120V-1Φ-2W	180	70	CU	12	1	0.43	0.36

EQUIPMENT IN *ITALICS* IS EXISTING.



1 SITE POWER PLAN
 SCALE: 1/4" = 1'-0"