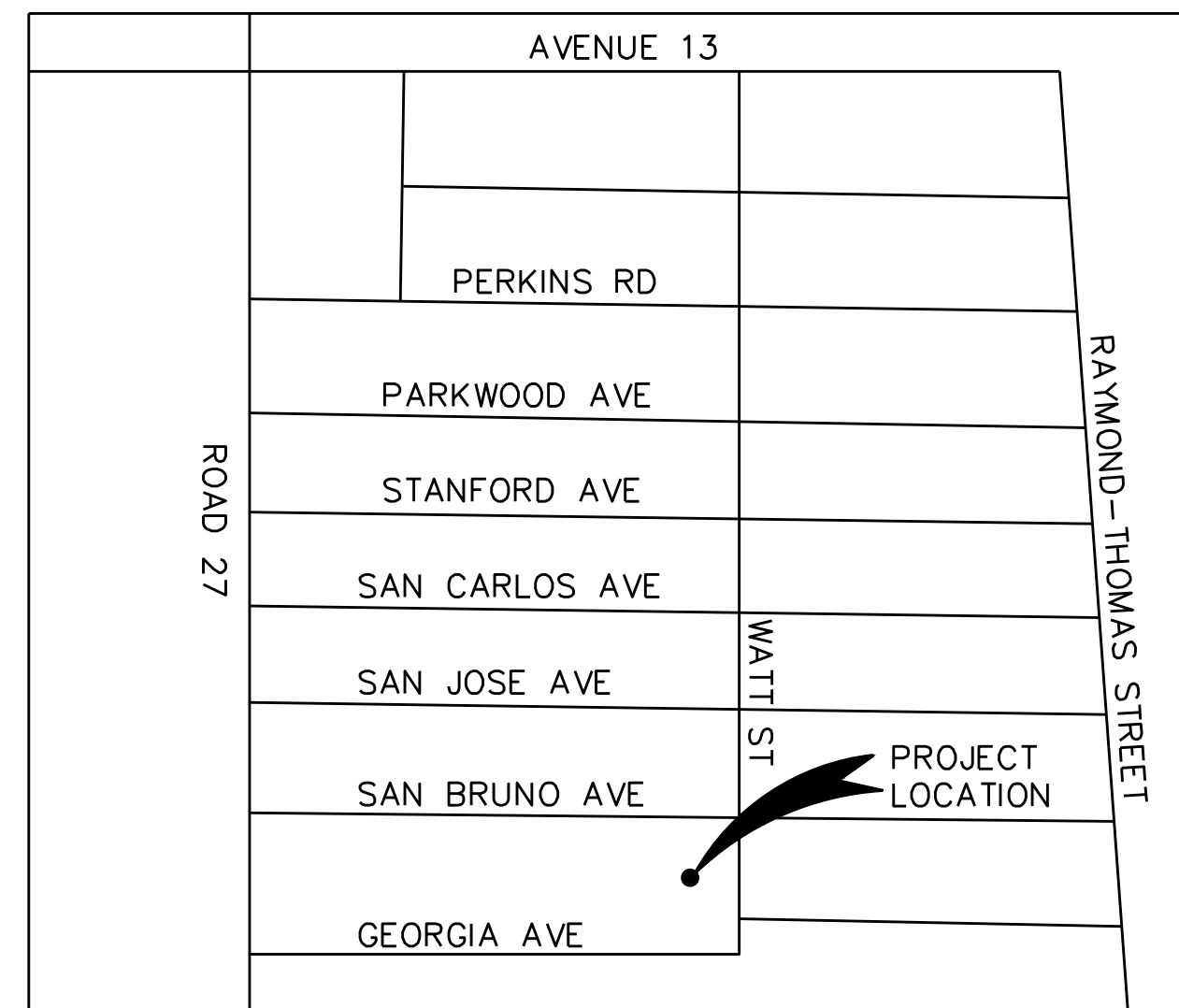


MADERA COUNTY MAINTAINENCE DISTRICT 19A&B PARKWOOD - WATER SYSTEM IMPROVEMENTS

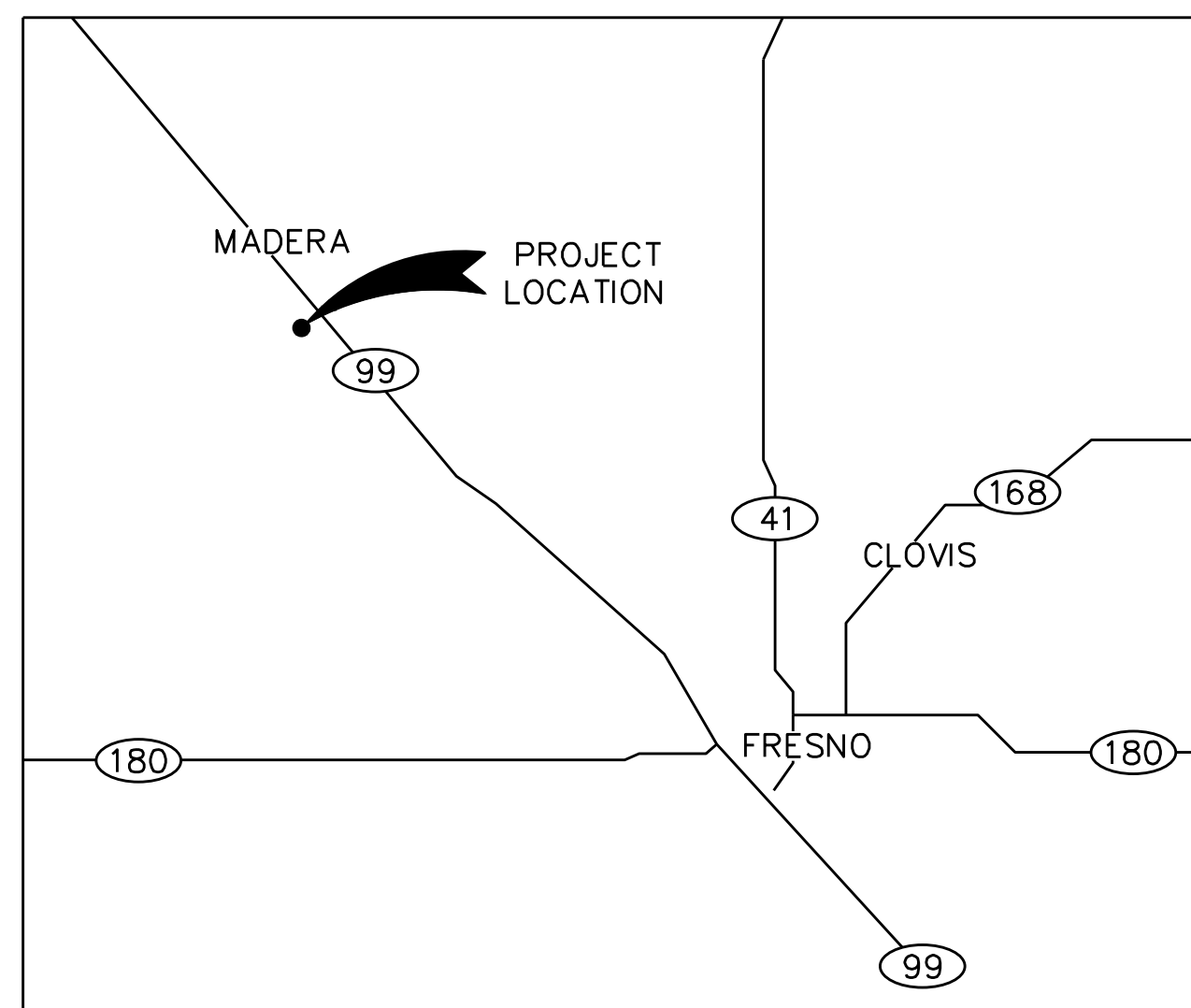
MAY 2019



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



AREA MAP
NOT TO SCALE

COUNTY APPROVALS:

PUBLIC WORKS DIRECTOR

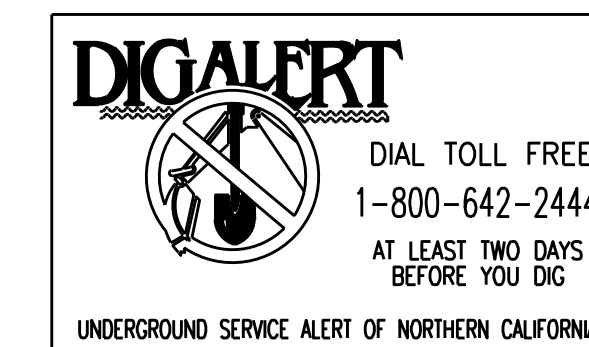
DATE

MUNICIPAL SERVICES DIVISION

DATE

DESIGN & CONSTRUCTION SECTION

DATE



CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.), (TOLL FREE 800-642-2444) PRIOR TO TRENCHING, GRADING, EXCAVATION, DRILLING, PIPE PUSHING, PLANTING TREES, DIGGING POST HOLES FOR FENCES, ETC., (U.S.A.) WILL SUPPLY INFORMATION OR LOCATE AND MARK ANY UNDERGROUND FACILITIES.

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS" CONTAINED IN THE SPECIAL PROVISIONS.

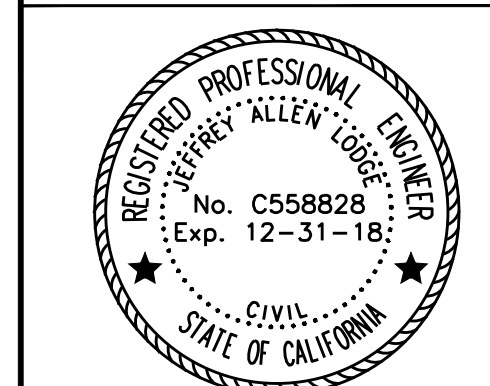
SHEET INDEX

DRAWING NO.	DRAWING DESCRIPTION
GENERAL	
G-1	COVER SHEET
G-2	GENERAL NOTES
G-3	GENERAL SYMBOLS AND ABBREVIATIONS
CIVIL	
C-1	EXISTING SITE PLAN
C-2	SITE DEMOLITION PLAN
C-3	SITE IMPROVEMENTS AND YARD PIPING PLAN
MECHANICAL	
M-1	MECHANICAL DETAILS
M-2	MECHANICAL SECTIONS AND DETAILS
M-3	WELL 4A MECHANICAL PLAN AND SECTION
M-4	WELL 4A DISCHARGE TIE-IN CONNECTION

DATE: MAY 2019
SCALE: H: N/A V: N/A
DRAWN BY: D. DASTOUM
DESIGNED BY: E. GOSSE
CHECKED BY: J. LODGE

IMPROVEMENT PLANS FOR
**MD19A&B - PARKWOOD
WATER SYSTEM IMPROVEMENTS
COVER SHEET**

WOOD RODGERS



DATE: _____

PROJECT NO.
8489.015

DRAWING
G-1

SHT 1 OF 10

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WORK WITH THE APPROPRIATE UTILITY SERVICE PROVIDER WHEN WORKING NEAR POWER LINES, POWER POLES, GAS MAINS, WATER TRANSMISSION FACILITIES OR ANY OTHER UTILITY STRUCTURES, BOXES, ETC.
2. UTILITY INFORMATION WAS COMPILED FROM DATA PROVIDED BY THE UTILITY OWNERS AND LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND OPERATIONS, UNLESS OTHERWISE NOTED. REFER TO IRRIGATION SYSTEM DRAWINGS INCLUDED WITH THE BID DOCUMENTS FOR APPROXIMATE LOCATIONS OF EXISTING IRRIGATION PIPING.
3. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES INVOLVED WITH THIS PROJECT. IN ADDITION, THE CONTRACTOR IS TO REQUEST TO HAVE ALL UNDERGROUND UTILITIES WHICH MAY POSSIBLY CONFLICT WITH THE ABOVEGROUND OR BELOWGROUND IMPROVEMENTS IDENTIFIED IN THE FIELD. THE CONTRACTOR IS REQUIRED TO NOTIFY UNDERGROUND SERVICE ALERT (U.S.A) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION BY CALLING (800) 227-2600.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONTRACT ACTIVITIES.
5. CAL-OSHA SAFETY REQUIREMENTS SHALL BE IN EFFECT DURING ALL CONSTRUCTION ACTIVITIES.
6. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL WARNING SIGNS, DEVICES, AND FEATURES NECESSARY TO PROTECT THE HEALTH AND SAFETY OF THE GENERAL PUBLIC AND WORKERS AND TO PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS APPLICABLE TO ALL WORK PERFORMED UNDER THE CONTRACT.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SIZES, AND LOCATIONS OF ALL EXISTING FACILITIES AND FEATURES BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
9. ALL CONSTRUCTION MATERIALS SHALL CONFORM TO THE CONTRACT SPECIFICATIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. MONUMENTS AND SURVEY MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROVIDE SURVEYORS WITH AT LEAST 48 HOURS ADVANCE NOTICE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE OF ALL IMPROVEMENTS AND FILLS THAT ARE CONSTRUCTED AND COPIES SHALL BE DELIVERED TO THE AGENCY PRIOR TO THE ACCEPTANCE OF THE WORK AS INDICATED IN THE SPECIFICATIONS.
12. DRAWINGS SHOWN WITH AERIAL PHOTOGRAPHS ARE PROVIDED FOR REFERENCE ONLY. ALL FACILITIES MAY NOT BE SHOWN ON PHOTOGRAPHS. THE CONTRACTOR SHALL SATISFY ITSELF AS TO THE LOCATION OF EXISTING FACILITIES THAT MAY BE AFFECTED BY CONSTRUCTION.
13. THE CONTRACTOR IS REQUIRED TO DEVELOP AND MAINTAIN A WATER POLLUTION CONTROL PROGRAM (WPCP) FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROLS IN COMPLIANCE WITH THE NPDES CONSTRUCTION GENERAL PERMIT (Order No. 2012-2006-DWQ).
14. THE CONTRACTOR SHALL PROVIDE DUST CONTROL AT ALL TIMES.
15. A SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
16. UNLESS OTHERWISE NOTED, STATIONING SHOWN ON THE PLANS ARE IN REFERENCE TO THE CENTERLINE OF THE PROPOSED STRUCTURE.
17. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS FOR THE SAFE PASSAGE BY THE PUBLIC ALONG ALL PUBLIC UTILITY EASEMENTS AND ACCESS EASEMENTS USED IN CONNECTION WITH CONSTRUCTION ACTIVITIES.
18. ALL FITTINGS SHALL BE RESTRAINED.
19. THE CONTRACTOR SHALL ALLOW THE OWNER, OWNER'S REPRESENTATIVE, ENGINEER, AND UTILITY OWNERS ACCESS TO THE WORK WHENEVER IT IS IN PREPARATION AND PROGRESS.


BASIS OF DESIGN

1. GEOTECHNICAL INFORMATION USED FOR THIS DRAWING SET WAS PROVIDED BY SALEM ENGINEERING GROUP, INC. IN THE FOLLOWING DOCUMENT:
 - A. GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED STORAGE TANK AT PARKWOOD PARK NWC GEORGIA AVENUE & WATT STREET, JANUARY 2016.

60% DESIGN

NO.	DESCRIPTION	INIT	DATE

DATE: MAY 2019
 SCALE: H: N/A V: N/A
 DRAWN BY: D. DASTOUM
 DESIGNED BY: E. GOSSE
 CHECKED BY: J. LODGE



WOOD RODGERS
 DEVELOPING INNOVATIVE DESIGN SOLUTIONS
 3301 C St. Bldg. 100-B Tel 916.341.7760
 Sacramento, CA 95816 Fax 916.341.7767

CALIFORNIA

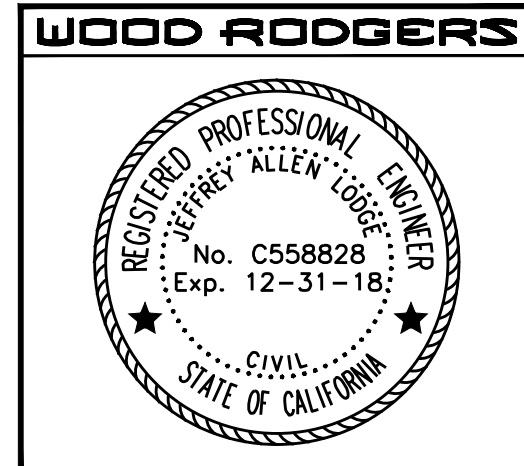
IMPROVEMENT PLANS FOR
**MD19A&B - PARKWOOD
 WATER SYSTEM IMPROVEMENTS
 GENERAL NOTES**

MADERA COUNTY

PROJECT NO.
8489.015

DRAWING
G-2

SHT **2** OF **10**



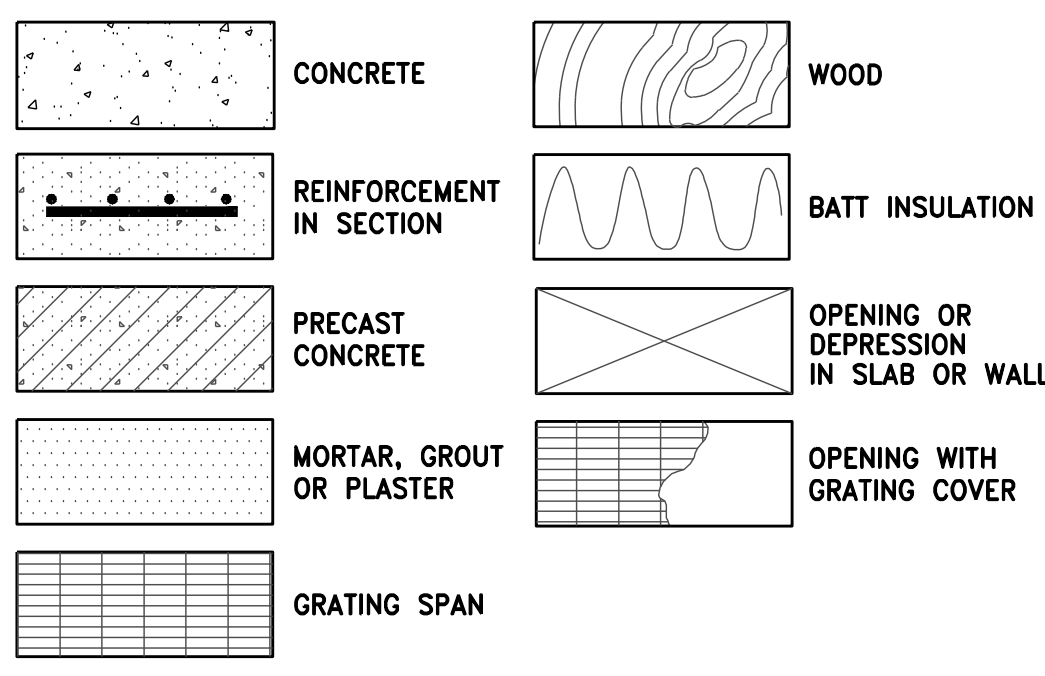
DATE: _____

J:\Jobs\8489 - Madera County\8489 015 MD19A&B Parkwood\Gen\DWG\MD19A&B_WA_A_G02.dwg 5/9/2019 3:03 PM Doris Dastoum

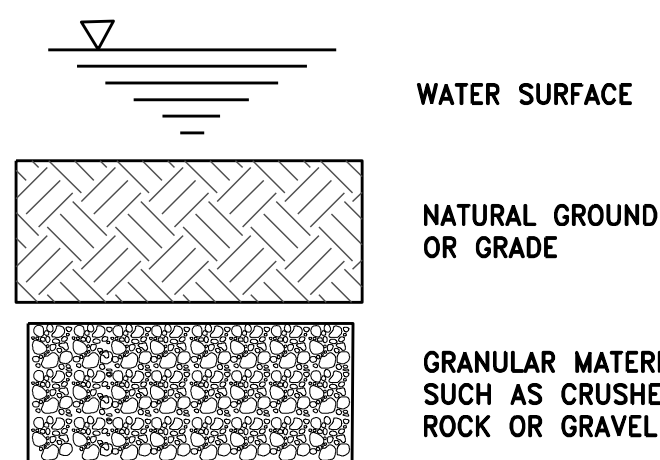
ABBREVIATIONS

<p>A AIR</p> <p>AB AGGREGATE BASE</p> <p>AC ASPHALTIC CONCRETE</p> <p>ADPTR ADAPTER</p> <p>AGG AGGREGATE</p> <p>AL ALUMINUM</p> <p>ALT ALTERNATE</p> <p>APPROX APPROXIMATE</p> <p>AUX AUXILIARY</p> <p>AL, ALUM ALUMINUM</p> <p>APN ASSESSOR'S PARCEL NUMBER</p> <p>ARCH ARCHITECTURAL</p> <p>ASTM AMERICAN SOCIETY OF TESTING MATERIALS</p> <p>AR/AV AIR RELEASE/VACUUM VALVE</p> <p>AWG AMERICAN WIRE GAUGE</p> <p>AWWA AMERICAN WATER WORKS ASSOCIATION</p> <p>BC BEGIN CURVE</p> <p>BF BLIND FLANGE</p> <p>BFV BUTTERFLY VALVE</p> <p>BKFL BACKFILL</p> <p>BL BASELINE</p> <p>BLDG BUILDING</p> <p>BM BENCH MARK</p> <p>BO BLOWOFF</p> <p>BOT BOTTOM</p> <p>BOW BACK OF WALK</p> <p>BVC BEGIN VERTICAL CURVE</p> <p>CARV COMBINATION AIR VALVE</p> <p>CB CATCH BASIN</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>C&G CUB & GUTTER</p> <p>CI CAST IRON</p> <p>CL CENTER LINE</p> <p>CL CLASS</p> <p>CL2 SODIUM HYPOCHLORITE</p> <p>CLR CLEARANCE</p> <p>CLSM CONTROLLED LOW STRENGTH MATERIAL</p> <p>CML&C CEMENT MORTAR LINED & COATED</p> <p>CMP CORRUGATED META PIPE</p> <p>CMU CONCRETE MASONRY UNIT</p> <p>CNTRL CONTROL</p> <p>CO CLEAN OUT</p> <p>CONC CONCRETE</p> <p>COND CONDUIT</p> <p>CONN CONNECTION</p> <p>CONST CONSTRUCTION</p> <p>CONT CONTINUOUS OR CONTROLLED</p> <p>COORD COORDINATE</p> <p>CORP CORPORATION</p> <p>CP CONTROL POINT</p> <p>CPLG COUPLING</p> <p>CR CURB RETURN</p> <p>CTR CENTER</p> <p>CU COPPER</p> <p>CV CHECK VALVE</p> <p>CW COLD WATER</p> <p>CY CUBIC YARD</p> <p>D DEPTH OR DRAIN</p> <p>DBL DOUBLE</p> <p>DEG DEGREE</p> <p>DEPT DEPARTMENT</p> <p>DET DETAIL</p> <p>DI DRAINAGE INLET OR DUCTILE IRON</p> <p>DIA OR Ø DIAMETER</p> <p>DIM DIMENSION</p> <p>DIP/DI DUCTILE IRON PIPE</p> <p>DMH DRAIN MANHOLE</p> <p>DN DOWN</p> <p>DS DOWNSTREAM</p> <p>DWG DRAWING</p> <p>DWY DRIVEWAY</p> <p>E EAST OR EXISTING</p> <p>EA EACH</p> <p>EC END CURVE</p> <p>ECC ECCENTRIC</p> <p>EFF EFFLUENT</p> <p>EG EXISTING GROUND</p> <p>EL/ELEV ELEVATION</p> <p>ELL/ELB ELBOW</p> <p>ELEC ELECTRICAL</p> <p>EMERG EMERGENCY</p> <p>EP EDGE OF PAVEMENT</p> <p>EW EACH WAY</p> <p>EX/EXST EXISTING</p> <p>EXT EXTERIOR</p> <p>EVC END OF VERTICAL CURVE</p> <p>EXP EXPANSION</p> <p>(F) FUTURE</p> <p>FA FOUL AIR</p> <p>FC FLEXIBLE COUPLING</p> <p>FCA FLANGED COUPLING ADAPTOR</p> <p>FCO FLOOR CLEANOUT</p> <p>FCV FLOW CONTROL VALVE</p> <p>FD FLOOR DRAIN</p> <p>FF FINISH FLOOR</p> <p>FG FINISH GRADE</p> <p>FH FIRE HYDRANT</p> <p>FIG(S) FIGURE(S)</p> <p>FIN FINISHED</p> <p>FLEX FLEXIBLE</p>	<p>FLG FLANGED</p> <p>FL FLOWLINE</p> <p>FLR FLOOR</p> <p>FM FORCE MAIN</p> <p>FND FOUNDATION</p> <p>FT FEET OR FOOT</p> <p>FTG FOOTING</p> <p>GA GAUGE</p> <p>GAL GALLON</p> <p>GAW GRADE AT WALL</p> <p>GALV GALVANIZED</p> <p>GB GRADE BREAK</p> <p>GIP GALVANIZED IRON PIPE</p> <p>GND GROUND (ELEC)</p> <p>GPM GALLONS PER MINUTE</p> <p>GS(P) GALVANIZED STEEL (PIPE)</p> <p>GV GATE VALVE</p> <p>GWB GYPSUM WALL BOARD</p> <p>H HEIGHT</p> <p>HA HIGH PRESSURE AIR</p> <p>HB HOSE BIBB</p> <p>HDPE HIGH DENSITY POLYETHYLENE PIPE</p> <p>HL HIGH LEVEL</p> <p>HORIZ HORIZONTAL</p> <p>HP HORSEPOWER</p> <p>HPT HIGH POINT</p> <p>HR HOUR</p> <p>HT HEIGHT</p> <p>HVAC HEATING, VENTILATION, AIR CONDITIONING</p> <p>HW HOT WATER</p> <p>HWL HIGHWATER LEVEL</p> <p>HDR HYDRAULIC</p> <p>ID INSIDE DIAMETER</p> <p>IE INVERT ELEVATION</p> <p>IN INCHES</p> <p>INT INTERIOR</p> <p>INVT INVERT</p> <p>IPS IRON PIPE SIZE</p> <p>JCT JUNCTION</p> <p>JT JOINT</p> <p>L LENGTH OR LEFT</p> <p>LA LOW PRESSURE AIR</p> <p>LB POUND</p> <p>LF LINEAR FEET</p> <p>LPT LOWPOINT</p> <p>LSH LEVEL SWITCH HIGH</p> <p>LSL LEVEL SWITCH LOW</p> <p>LT LEFT OR LIGHT</p> <p>LWL LOW WATER LEVEL</p> <p>MAG MAGNETIC</p> <p>MATL MATERIAL</p> <p>MAX MAXIMUM</p> <p>MCC MOTOR CONTROL CENTER</p> <p>ME MATCH EXISTING</p> <p>MFR MANUFACTURER</p> <p>MG MILLION GALLONS</p> <p>MH MANHOLE</p> <p>MIN MINIMUM</p> <p>MJ MECHANICAL JOINT</p> <p>MRGWB MOISTURE RESISTANT GYPSUM WALL BOARD</p> <p>MSTR MASTER</p> <p>N NEW OR NORTH</p> <p>NO OR # NUMBER</p> <p>NPT NATIONAL PIPE THREAD</p> <p>NRS NON-RISING STEM</p> <p>NTS NOT TO SCALE</p> <p>OC ON CENTER</p> <p>OD OUTSIDE DIAMETER</p> <p>OF OVERFLOW</p> <p>(OH) OVERHEAD</p> <p>OPNG OPENING</p> <p>OS&Y OUTSIDE STEM & YOKE</p> <p>P POWER</p> <p>P&ID PROCESS & INSTRUMENTATION DIAGRAM</p> <p>PC PIECE</p> <p>PE PLAIN END OR POLYETHYLENE PIPE</p> <p>PERF PERFORATED</p> <p>PG PRESSURE GAUGE</p> <p>PI PRESSURE INDICATOR OR POINT OF INTERSECTION</p> <p>PL OR R PLATE OR PROPERTY LINE</p> <p>PLC PROGRAMMABLE LOGIC CONTROLLER</p> <p>PM PRESSURE MAIN</p> <p>P/P POWER POLE/UTILITY POLE</p> <p>PRESS PRESSURE</p> <p>PS PIPE SUPPORT</p> <p>P/S PUMPING STATION</p> <p>PSF POUNDS PER SQUARE FOOT</p> <p>PSI POUNDS PER SQUARE INCH</p> <p>PT POINT</p> <p>PVC POLYVINYL CHLORIDE</p> <p>PVMT PAVEMENT</p> <p>PUE PUBLIC UTILITY EASEMENT</p> <p>R RADIUS</p> <p>RCP REINFORCED CONCRETE PIPE</p> <p>RD ROAD</p> <p>RED REDUCER</p> <p>REINF REINFORCING</p>	<p>REL RELATIVE</p> <p>REQD REQUIRED</p> <p>RESTR RESTRAINED</p> <p>REV REVISION</p> <p>ROW RIGHT OF WAY</p> <p>RPBP REDUCED PRESSURE BACKFLOW PREVENTER</p> <p>RT RIGHT</p> <p>RW RAW WATER</p> <p>S SOUTH OR SLOPE</p> <p>SA SAMPLE</p> <p>SCH SCHEDULE</p> <p>SD STORM DRAIN</p> <p>SDMH STORM DRAIN MANHOLE SECTION</p> <p>SHT SHEET</p> <p>SHWR SHOWER</p> <p>SMH SEWER MANHOLE SPECIFICATIONS</p> <p>SPEC SQUARE</p> <p>SO SANITARY SEWER</p> <p>SST STAINLESS STEEL</p> <p>STA STATION</p> <p>STD STANDARD</p> <p>STL STEEL</p> <p>STRUCT STRUCTURAL</p> <p>SUBM SUBMERSION</p> <p>SV SOLENOID VALVE</p> <p>SW SOUTHWEST, SWITCH, OR SIDEWALK</p> <p>T OR TEL TELEPHONE</p> <p>T&B TOP & BOTTOM</p> <p>TBC TOP BACK OF CURB</p> <p>TEMP TEMPORARY</p> <p>TF TOP OF FOOTING</p> <p>THD THREADED</p> <p>TOC TOP OF CONCRETE OR CURB</p> <p>TOE TOE OF SLOPE</p> <p>TOG TOP OF GROUND ELEVATION</p> <p>TOPE TOP OF PAVEMENT ELEVATION</p> <p>TOS TOP OF SLAB</p> <p>TOSE TOP OF SLAB ELEVATION</p> <p>TP TELEPHONE POLE</p> <p>TRANS TRANSFORMER OR TRANSITION</p> <p>TRW TOP OF RETAINING WALL</p> <p>TW TREATED WATER</p> <p>TYP TYPICAL</p> <p>UBC UNIFORM BUILDING CODE</p> <p>UG UNDERGROUND</p> <p>VCP VITRIFIED CLAY PIPE</p> <p>VERT VERTICAL</p> <p>-V -VOLT</p> <p>VB VALVE BOX</p> <p>VTR VENT THROUGH ROOF</p> <p>W WATER, WATT, WEST, OR WIDTH</p> <p>WA WASTE</p> <p>WH WHARF HYDRANT, WATER HEATER</p> <p>WP WEATHERPROOF</p> <p>WS WATER SURFACE, WATER STOP</p> <p>WSP WELDED STEEL PIPE WEIGHT</p> <p>WT WATER TREATMENT PLANT</p> <p>WWF WELDED WIRE FABRIC</p> <p>WWM WELDED WIRE MESH</p> <p>XING CROSSING</p> <p>YD YARRD</p> <p>@ AT</p> <p>& AND</p> <p>W/ WITH</p> <p>W/O WITHOUT</p>
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ARCHITECTURAL STRUCTURAL



GENERAL

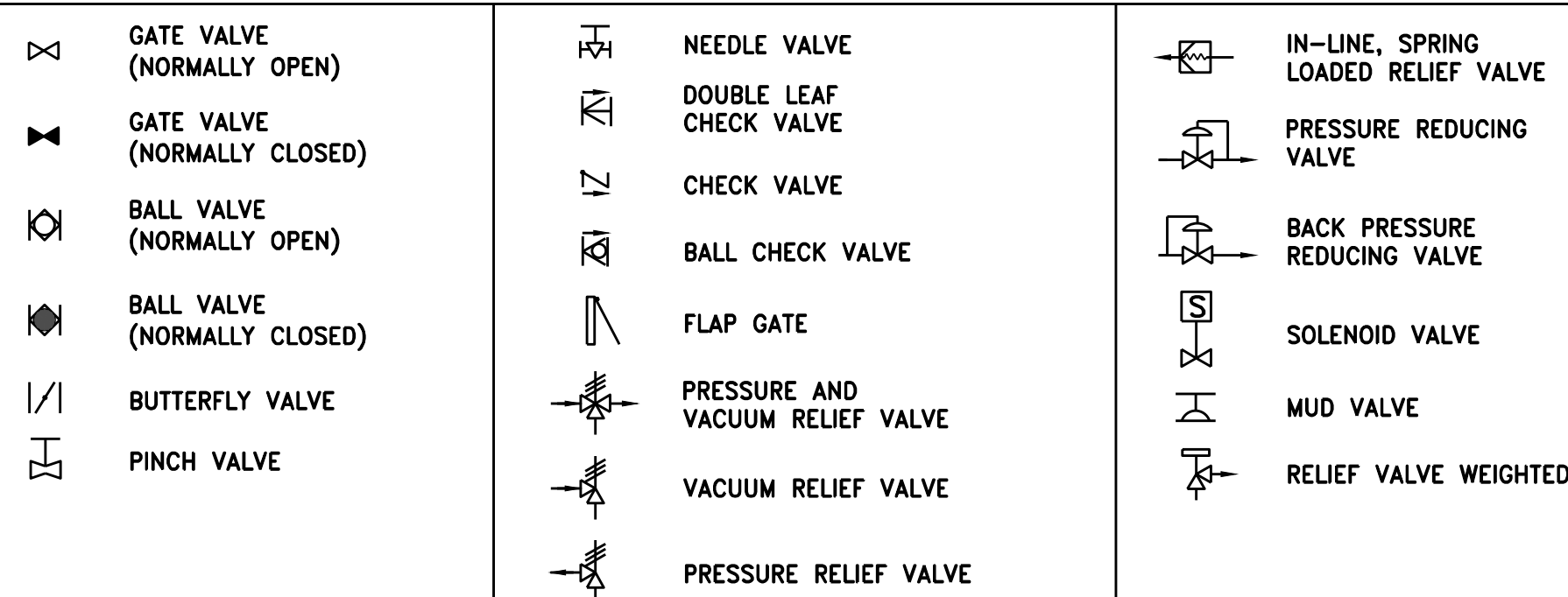


CIVIL LEGEND

EXISTING	PROPOSED	DESCRIPTION
○	●	DRAIN MANHOLE
○	●	SEWER MANHOLE
□	■	DRAIN INLET
—	—	CLEAN OUT
— 6" S —	— 6" S —	CENTERLINE
— 12" D —	— 12" D —	SEWER LINE AND SIZE
— 6" W —	— 6" W —	DRAIN LINE AND SIZE
—	—	WATER LINE AND SIZE
—	—	WATER SERVICE
—	—	VALVE BOX
—	—	VENT THROUGH ROOF
—	—	WATER SERVICE
—	—	WATER VALVE
—	—	FIRE HYDRANT
—	—	CHAIN LINK FENCE
—	—	DRIVEWAY
—	—	TRAFFIC SIGN AS NOTED
—	—	SEWER SERVICE
—	—	R.P. BACKFLOW PREVENTER
—	—	DOUBLE CHECK VALVE
—	—	AIR RELEASE VALVE
—	—	BLOW-OFF
—	—	GAS, TELEPHONE OR ELECTRIC
—	—	PROPERTY LINE
—	—	MONUMENT
—	—	STREET LIGHT
—	—	FLUSHING BRANCH
—	—	SIDEWALK RAMP
— 31.25 —	— 31.25 —	SPOT ELEVATION
—	—	STREET NAME SIGN (PERMANENT)
—	—	30" R1 SIGN (STOP)
— P= —	— P= —	PAD GRADE ELEVATION
—	—	FINISH GRADE CONTOURS
—	—	FINISH GRADE SPOT ELEVATION

MECHANICAL

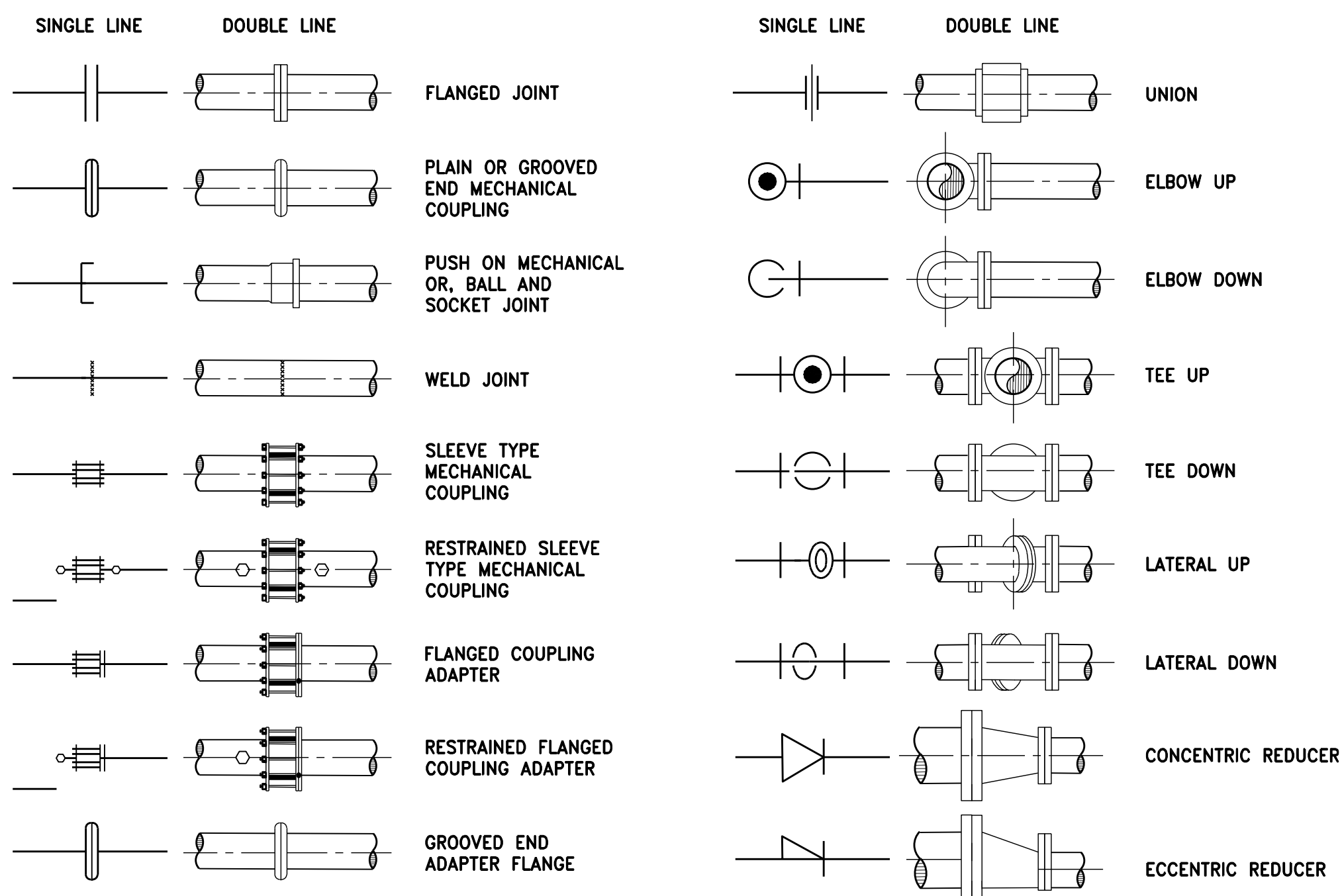
VALVES AND DEVICES



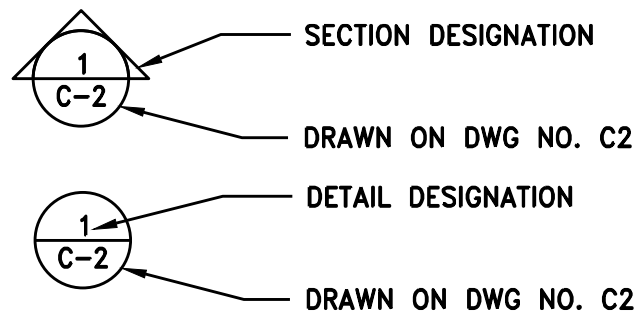
PIPE LINE DEVICE SYMBOLS



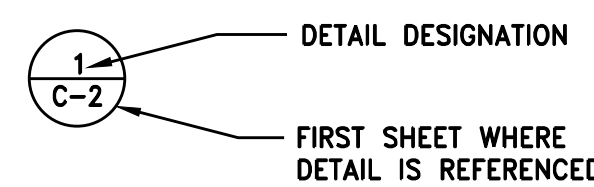
PIPE AND FITTINGS



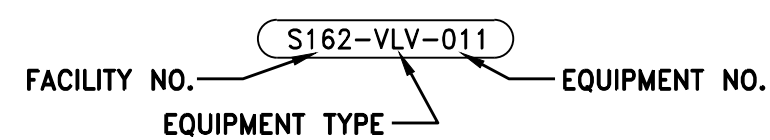
REFERENCE SYMBOL



DETAIL SYMBOL



IDENTIFICATION TAG



WOOD RODGERS



DATE: _____

DATE: MAY 2019
 SCALE: H: N/A V: N/A
 DRAWN BY: D. DASTOUM
 DESIGNED BY: E. GOSSE
 CHECKED BY: J. LODGE

WOOD RODGERS
 DEVELOPING INNOVATIVE DESIGN SOLUTIONS
 3301 C St. Bldg. 100-B Sacramento, CA 95816
 Tel 916.341.7760 Fax 916.341.7767

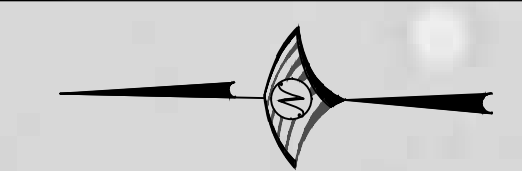
IMPROVEMENT PLANS FOR
MD19A&B - PARKWOOD
WATER SYSTEM IMPROVEMENTS
GENERAL SYMBOLS AND ABBREVIATIONS
 CALIFORNIA
 MADERA COUNTY

PROJECT NO. 8489.015

DRAWING **G-3**

SHT 3 OF 10

60% DESIGN



HORIZ SCALE: 1" = 10'

WATT STREET

EXISTING ELECTRICAL PANEL

(E) TREE (TYP)

EXISTING SAND SEPARATOR TO BE REMOVED SEE SHEET C-2

EXISTING HYDROPNEUMATIC TANK

EXISTING BOOSTER PUMP STATION

EXISTING BASKETBALL COURT TO BE PROTECTED DURING CONSTRUCTION

EXISTING WATER STORAGE TANK

PRODUCTION WELL 4A

WOOD RODGERS



DATE: _____

NO.	DESCRIPTION	INIT	BY	DATE

DATE: MAY 2019
 SCALE: H: 1" = 10' V: N/A
 DRAWN BY: D. DASTOUM
 DESIGNED BY: E. GOSSE
 CHECKED BY: J. LODGE

WOOD RODGERS
 DEVELOPING INNOVATIVE DESIGN SOLUTIONS
 3301 O ST. BLDG. 100-B TEL 916.341.7760
 SACRAMENTO, CA 95816 FAX 916.341.7767

CALIFORNIA

IMPROVEMENT PLANS FOR
MD19A&B - PARKWOOD
WATER SYSTEM IMPROVEMENTS
EXISTING SITE PLAN

MADERA COUNTY

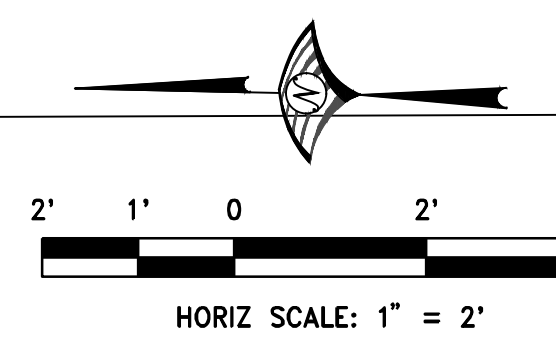
PROJECT NO. 8489.015

DRAWING C-1

SHT 4 OF 10

J:\Jobs\8489 - Madera County\8489 015 MD19A&B Parkwood\Civil\DWG\MD19A&B_WA_C1.dwg 5/9/2019 5:05 PM Dorus Dastoum

60% DESIGN



NOTES:

- 1. INFORMATION HAS BEEN COMPILED FROM DATA PROVIDED BY THE OWNER AND THE LOCATIONS SHOWN ARE APPROXIMATE. THE ACTUAL LOCATIONS OF THE EXISTING FACILITIES AND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND OPERATIONS. UNLESS OTHERWISE NOTED

DEMO (E) SAND SEPARATOR, AND ASSOCIATED PIPING AND APPURTENANCES

(E) ELECTRICAL PANEL TO REMAIN

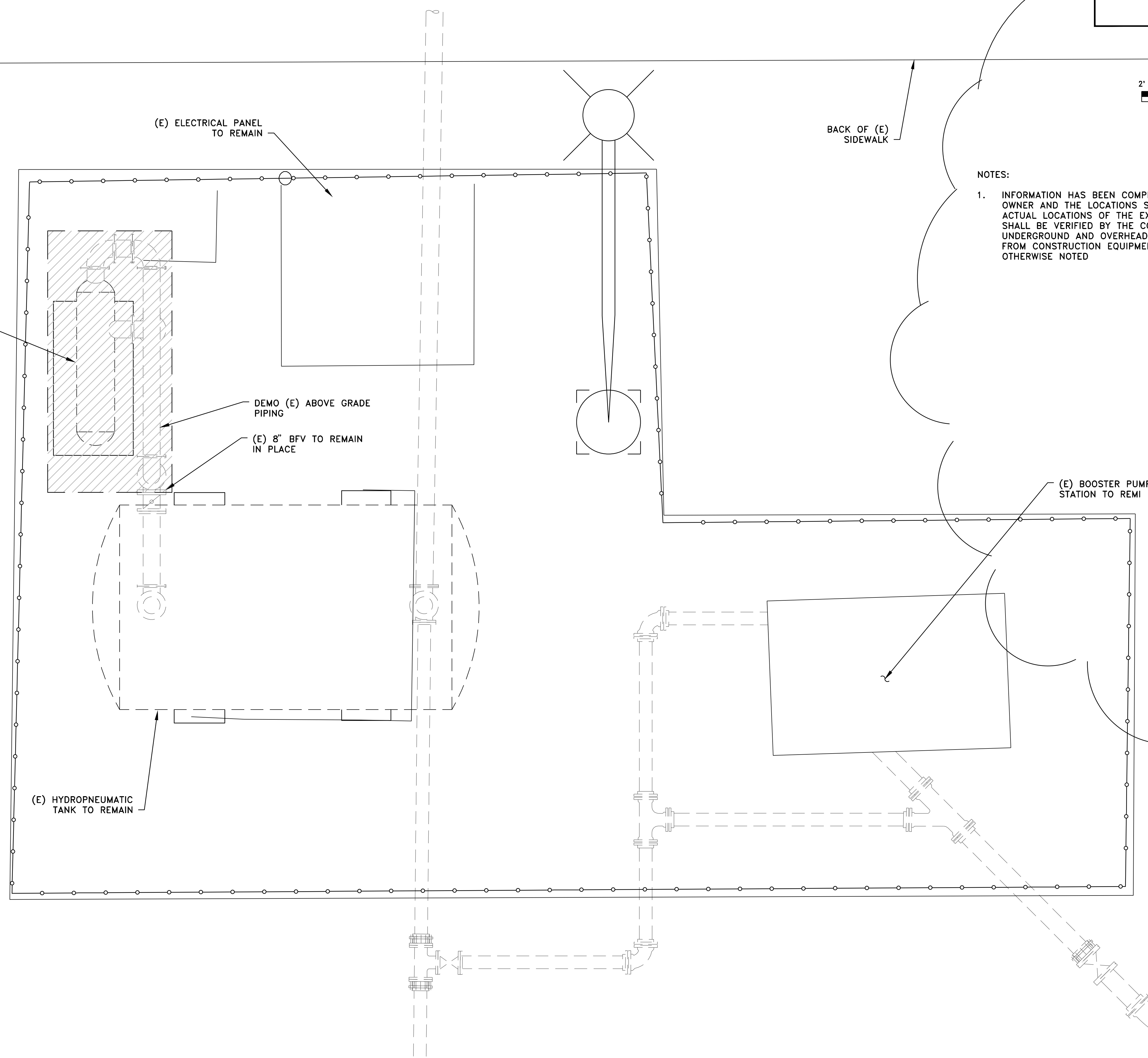
BACK OF (E) SIDEWALK

DEMO (E) ABOVE GRADE PIPING

(E) 8" BFV TO REMAIN IN PLACE

(E) BOOSTER PUMP STATION TO REMI

(E) HYDROPNEUMATIC TANK TO REMAIN



DATE: MAY 2019	SCALE: H: 1" = 2' V: N/A	DRAWN BY: D. DASTOUM	DESIGNED BY: E. GOSSE	CHECKED BY: J. LODGE
<p>WOOD RODGERS DEVELOPING INNOVATIVE DESIGN SOLUTIONS 3301 C ST., BLDG. 100-B TEL 916.341.7750 SACRAMENTO, CA 95816 FAX 916.341.7757</p>				
<p>IMPROVEMENT PLANS FOR MD19A&B - PARKWOOD WATER SYSTEM IMPROVEMENTS SITE DEMOLITION PLAN</p>				
<p>MADERA COUNTY CALIFORNIA</p>				
<p>PROJECT NO. 8489.015</p>				
<p>DRAWING C-2</p>				
<p>SHT 5 OF 10</p>				

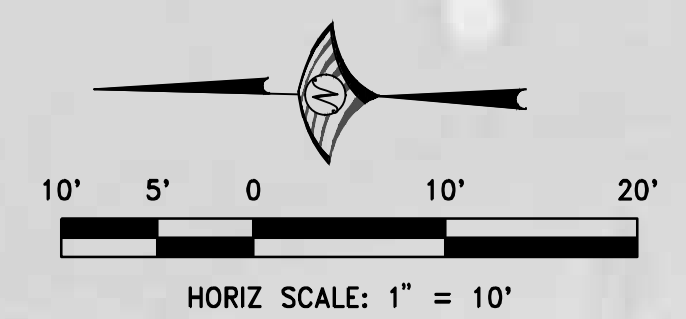
WOOD RODGERS



DATE:

J:\Jobs\8489_Madera_County\8489.012_MD19A&B_Parkwood\Civil_Dwg\MD19A&B_W4A_C2.dwg, 5/9/2019 3:04 PM Dorius Dastoum

60% DESIGN



WATT STREET

(E) TREE (TYP)

TO DISTRIBUTION

6' DOUBLE SWING GATE

10'-2"

27'-9" SECTION 1

EXTENDED FENCE

WELL 4A CONNECTION
SEE SHEET M-4

DIESEL GENERATOR

(E) 8" WATER

NOTES:

- 1. LENGTH OF NEW FENCE AROUND GENERATOR SHOWN IS FOR BIDDING PURPOSES ONLY. MATCH LENGTH OF EXISTING PARALLEL FENCE, AND EXTEND NEW FENCE FROM EXISTING CORNER POSTS.
- 2. WHEN TRENCHING THROUGH SIDEWALK, REMOVE AND REPLACE SIDEWALK SECTION FROM EXPANSION JOINT TO EXPANSION JOINT.

INSTALL 8" WATER AND ELECTRICAL CONDUITS BELOW (E) SIDEWALK SEE NOTE 2 (TYP)

8" W

8" W

8" WATER

EXISTING WATER STORAGE TANK

(E) TREE TO BE REMOVED

12' WIDE DOUBLE SWING GATE

21'

WELL 4A DISCHARGE
SEE SHEET M-3

AC DRIVEWAY

12" SD

36" SDMH
RIM EL=259.0'
INV EL 254.4'

12" PVC SDR PIPE
MIN 36" COVER

36" DIAMETER PRECAST
CONCRETE MANHOLE W/
GRATED TOP (TYP)
RIM EL=264'±
INV EL=259.5'

WOOD RODGERS



DATE: _____

DATE: MAY 2019
 SCALE: H: 1" = 10' V: N/A
 DRAWN BY: D. DASTOUM
 DESIGNED BY: E. GOSSE
 CHECKED BY: J. LODGE

WOOD RODGERS
 DEVELOPING INNOVATIVE DESIGN SOLUTIONS
 3301 D ST. BLDG. 100-B TEL 916.341.7760
 SACRAMENTO, CA 95816 FAX 916.341.7767

IMPROVEMENT PLANS FOR
MD19A&B - PARKWOOD
WATER SYSTEM IMPROVEMENTS
SITE IMPROVEMENTS AND YARD PIPING PLAN
 CALIFORNIA
 MADERA COUNTY

PROJECT NO. 8489.015

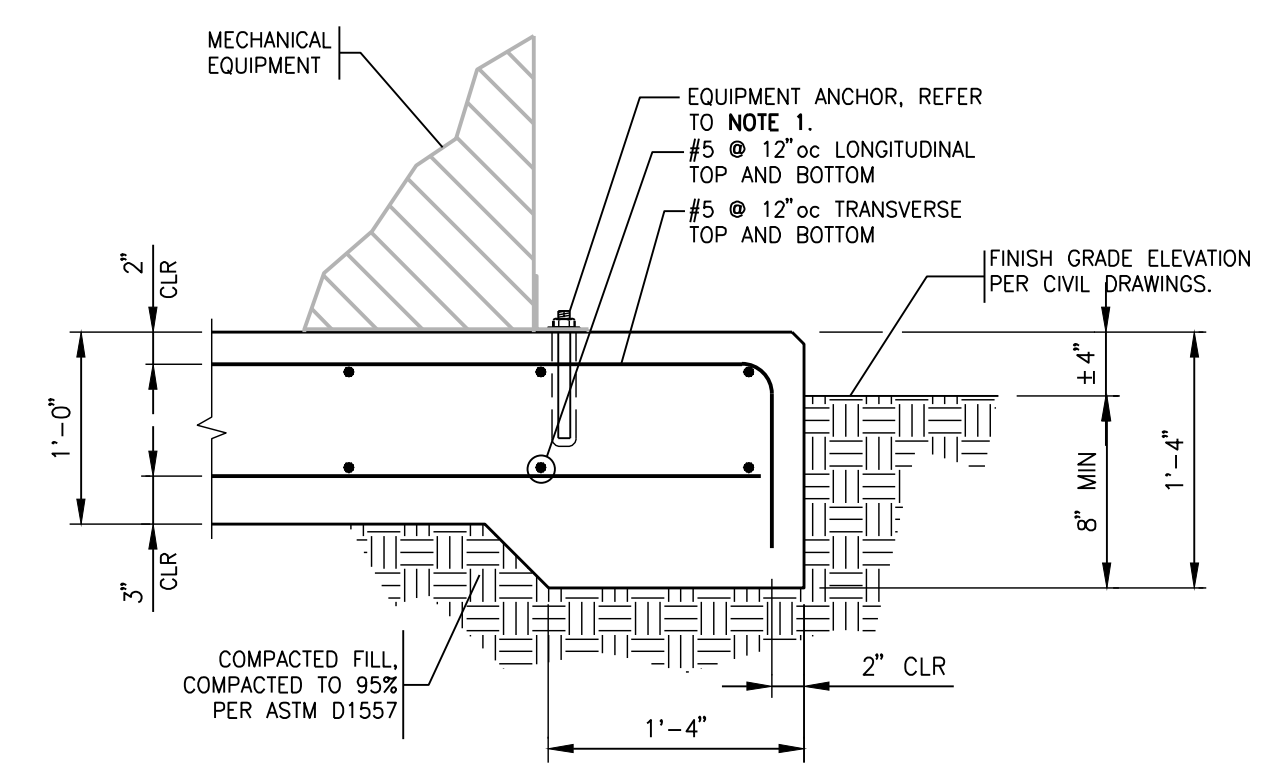
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SHT 6 OF 10

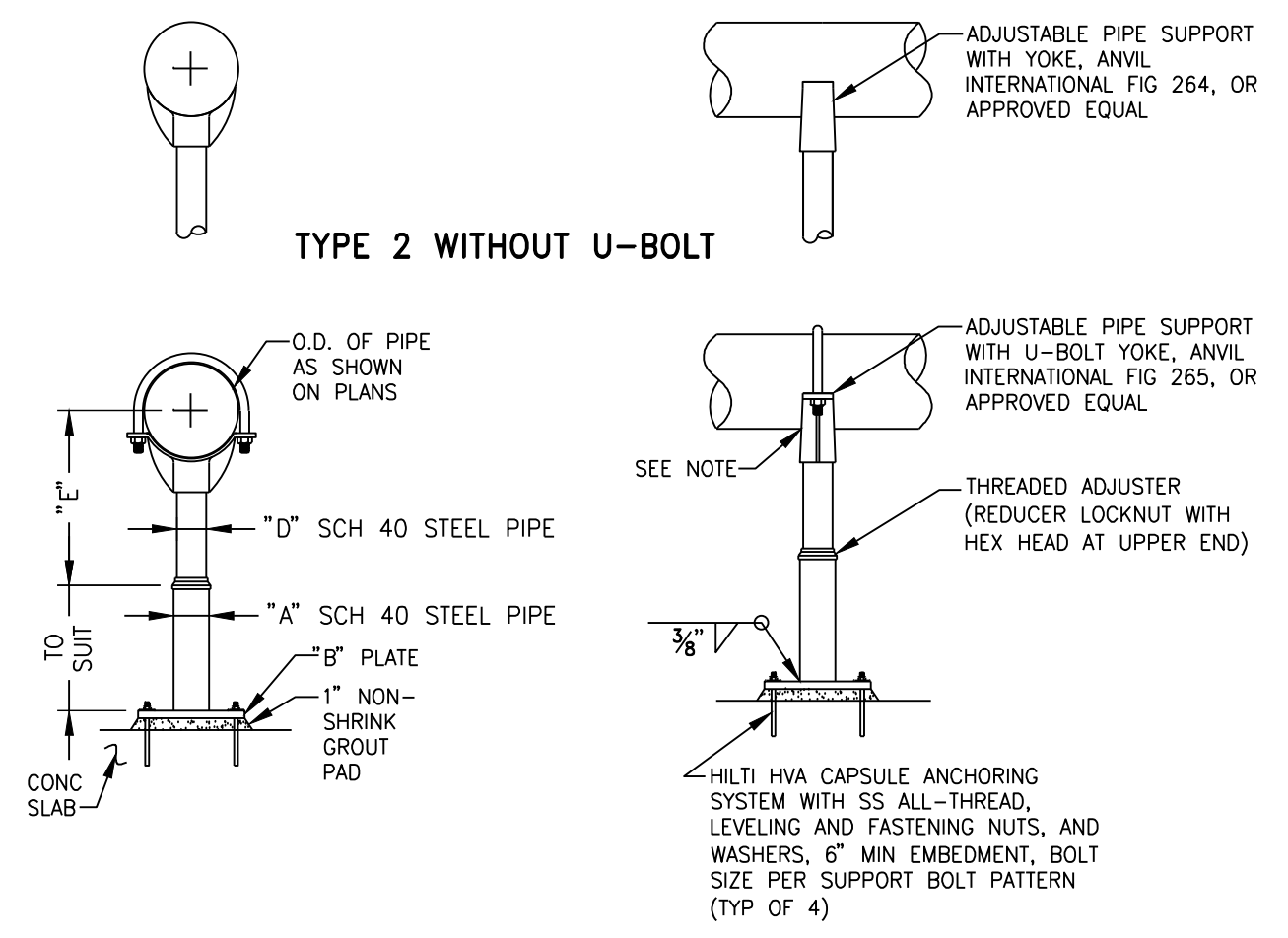
J:\Jobs\8489 - Madera County\8489.015_MD19A&B_Parkwood\Civil\Drawg\MD19A&B_WA_C3.dwg 5/19/2019 5:05 PM Dorus Dastoum

60% DESIGN

NOTES:
 1. ALL EQUIPMENT ANCHORAGE SHALL BE A MINIMUM OF 15" FROM EDGE OF SLAB UNLESS APPROVED BY THE ENGINEER



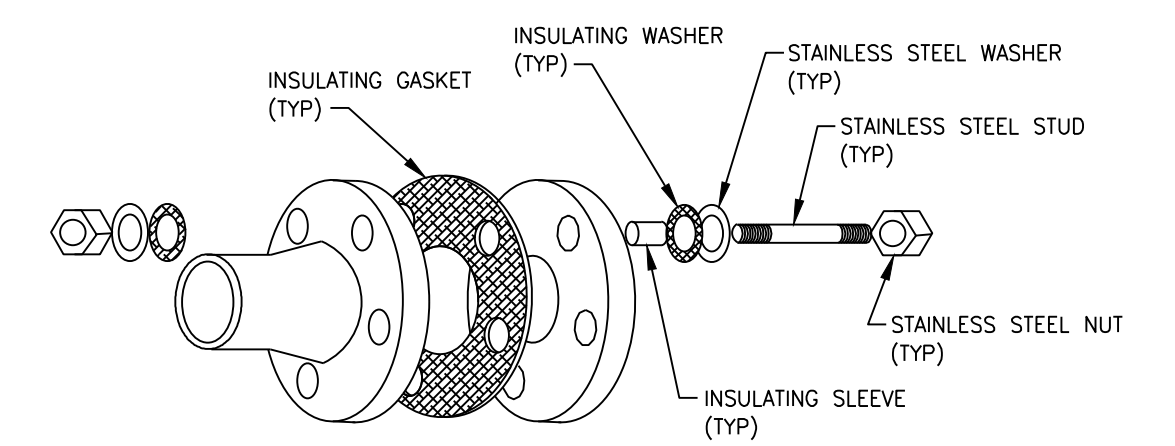
1 TYPICAL SLAB ON GROUND
 SCALE: N/A



PIPE SIZE	DIMENSIONS (INCHES)		D	E		MAX LOAD
	A	B		MIN	MAX	
2-1/2	2-1/2	3/8x8x8	1-1/2	8	13	1,800
3				8-1/4	13-1/4	
3-1/2				8-1/2	13-1/2	
4	3	3/8x10x10	2-1/2	9-1/4	14	3,800
5				10	14-3/4	
6				10-1/2	15-1/4	
8				11-3/4	16-1/2	
10				13-1/2	18-1/4	
12	4	1/2x12x12	3	15	19-3/4	5,300
14				16-1/4	20-3/4	
16				17-3/4	22-1/4	
18				19-1/2	24	
20				21	25-1/2	
22				21-5/16	25-13/16	
24				23-3/4	28-1/4	
26	24-5/16	28-13/16	7,300			
30	27	31-1/2				
32	28-1/4	32-3/4				
36				30-1/4	34-3/4	

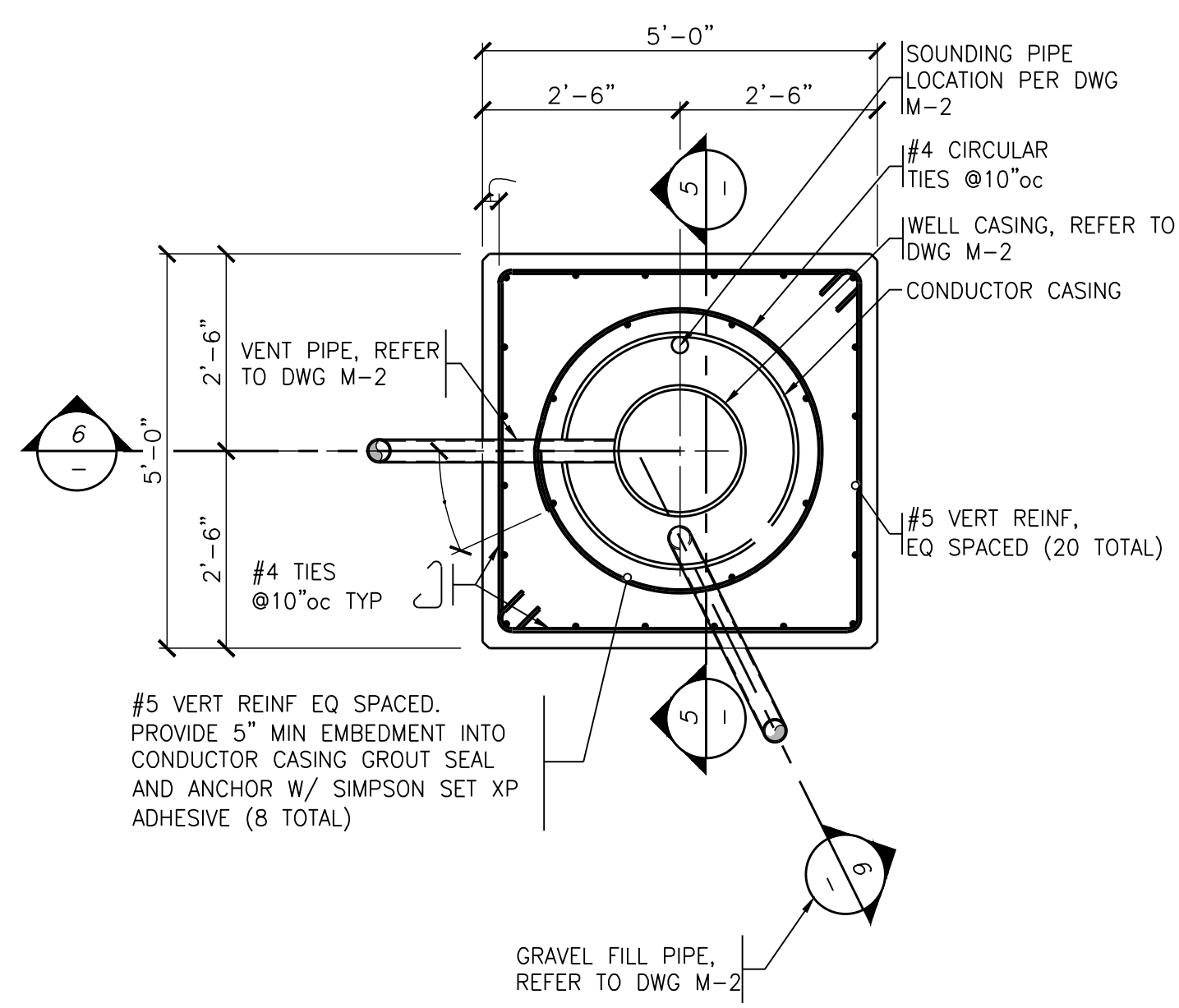
NOTES:
 1. FOR TYPE 1 SUPPORTS WITH U-BOLTS ONLY; PROVIDE TYPE 316 SS PIPE SHIELDS 6" WIDE, AT ADJUSTABLE PIPE SUPPORTS, AND AROUND ALL NON-METALLIC PIPE. PROVIDE TAPE COAT MOLDABLE SEALANT BETWEEN ENTIRE CONTACT SURFACE OF SHIELDS AND PIPE. WRAP COPPER PIPE WITH 1/8" THICK NEOPRENE STRIP.
 2. ALL COMPONENTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE.

2 PIPE SUPPORT W/ OR W/O U-BOLTS
 SCALE: N/A



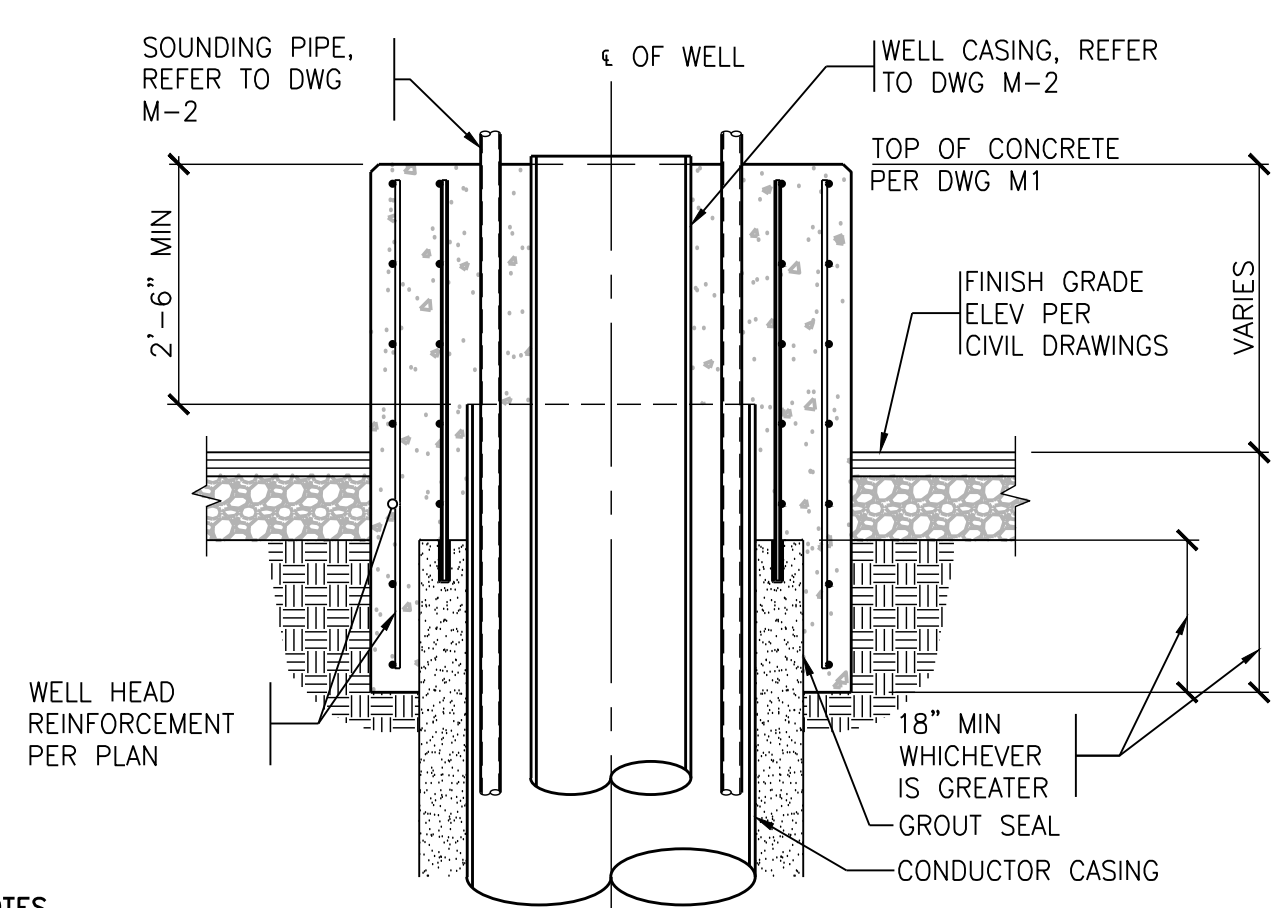
NOTE:
 PROVIDE INSULATED JOINT AT ALL STEEL TO DUCTILE IRON PIPE CONNECTIONS AND WHERE OTHERWISE SHOWN ON PLANS.

3 INSULATING JOINT FLANGE
 SCALE: N/A



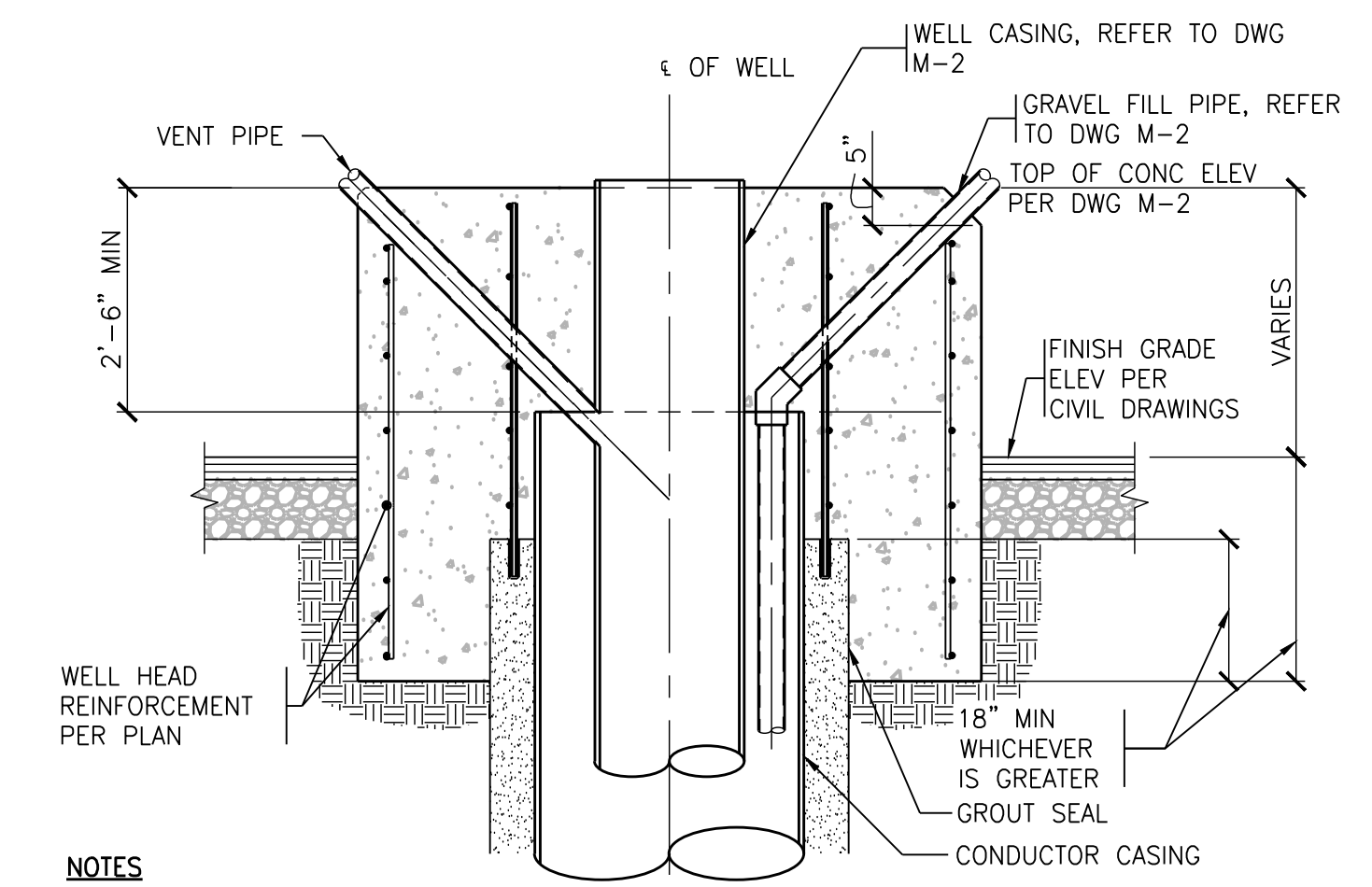
#5 VERT REINF EQ SPACED. PROVIDE 5" MIN EMBEDMENT INTO CONDUCTOR CASING GROUT SEAL AND ANCHOR W/ SIMPSON SET XP ADHESIVE (8 TOTAL)

4 DOMESTIC WATER WELL HEAD PLAN
 SCALE: 1/2" = 1'-0"



NOTES:
 1. PUMP, VENT PIPE, AND PUMP COLUMN PIPE INFORMATION IS NOT SHOWN FOR CLARITY. REFER TO DRAWING M-2.

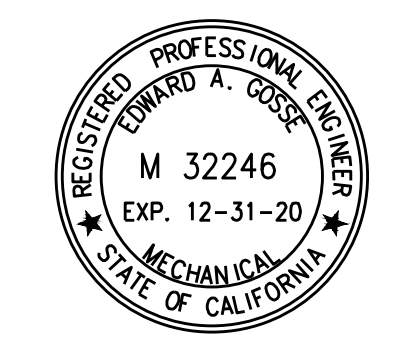
5 DOMESTIC WATER WELL HEAD SECTION
 SCALE: 1/2" = 1'-0"



NOTES:
 1. PUMP, SOUNDING PIPE, AND PUMP COLUMN PIPE INFORMATION IS NOT SHOWN FOR CLARITY. REFER TO DRAWING M-2.

6 DOMESTIC WATER WELL HEAD DIAGONAL SECTION
 SCALE: 1/2" = 1'-0"

WOOD RODGERS



DATE: _____

DATE: MAY 2019
 SCALE: H: AS SHOWN V: N/A
 DRAWN BY: D. DASTOUM
 DESIGNED BY: E. GOSSE
 CHECKED BY: J. LODGE

WOOD RODGERS
 DEVELOPING INNOVATIVE DESIGN SOLUTIONS
 3301 C St. Bldg. 100-B Tel 916.341.7760
 Sacramento, CA 95816 Fax 916.341.7767

IMPROVEMENT PLANS FOR
MD19A&B - PARKWOOD
WATER SYSTEM IMPROVEMENTS
MECHANICAL DETAILS

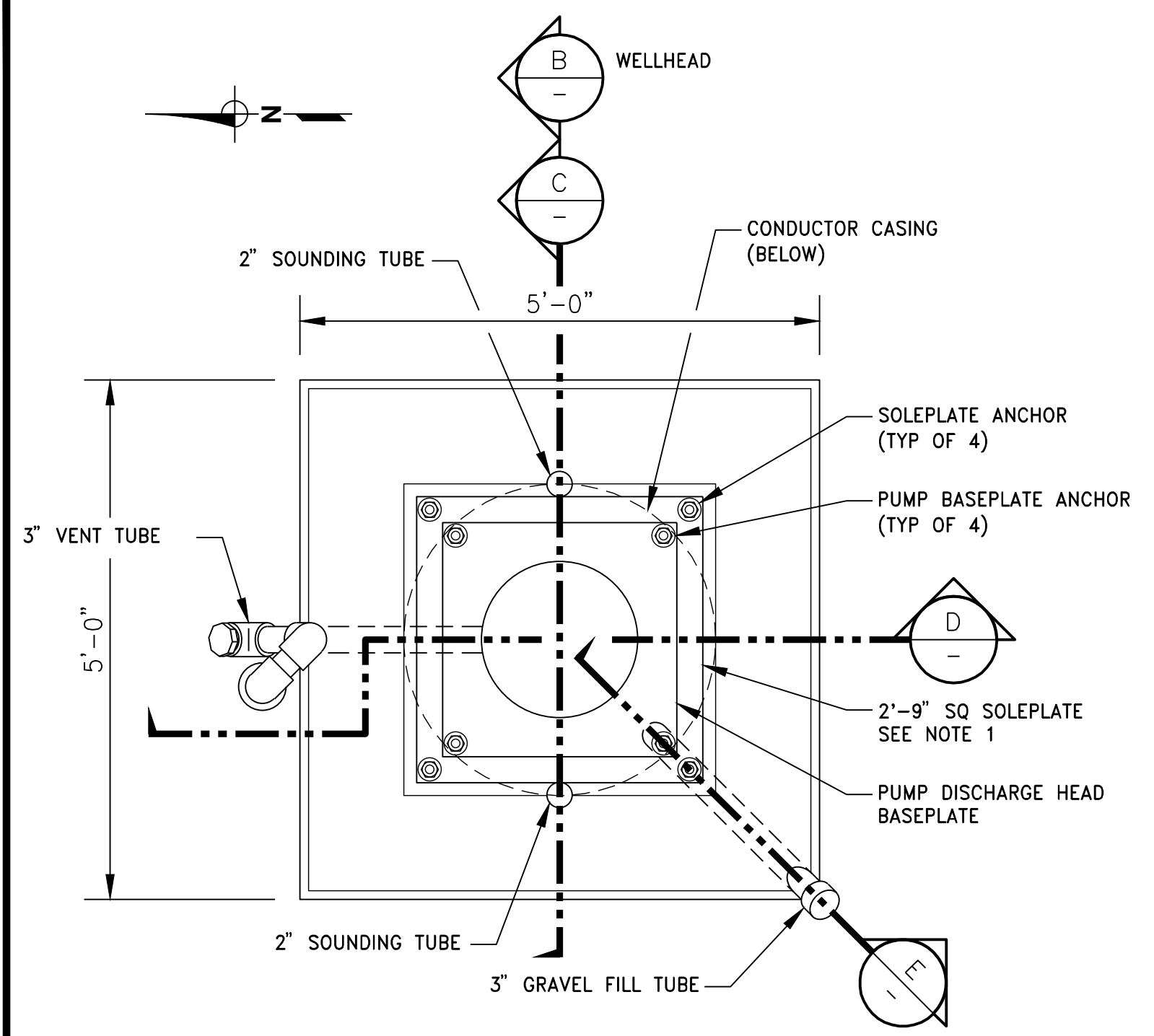
MADERA COUNTY
 CALIFORNIA

PROJECT NO. 8489.015
 DRAWING **M-1**
 SHT 7 OF 10

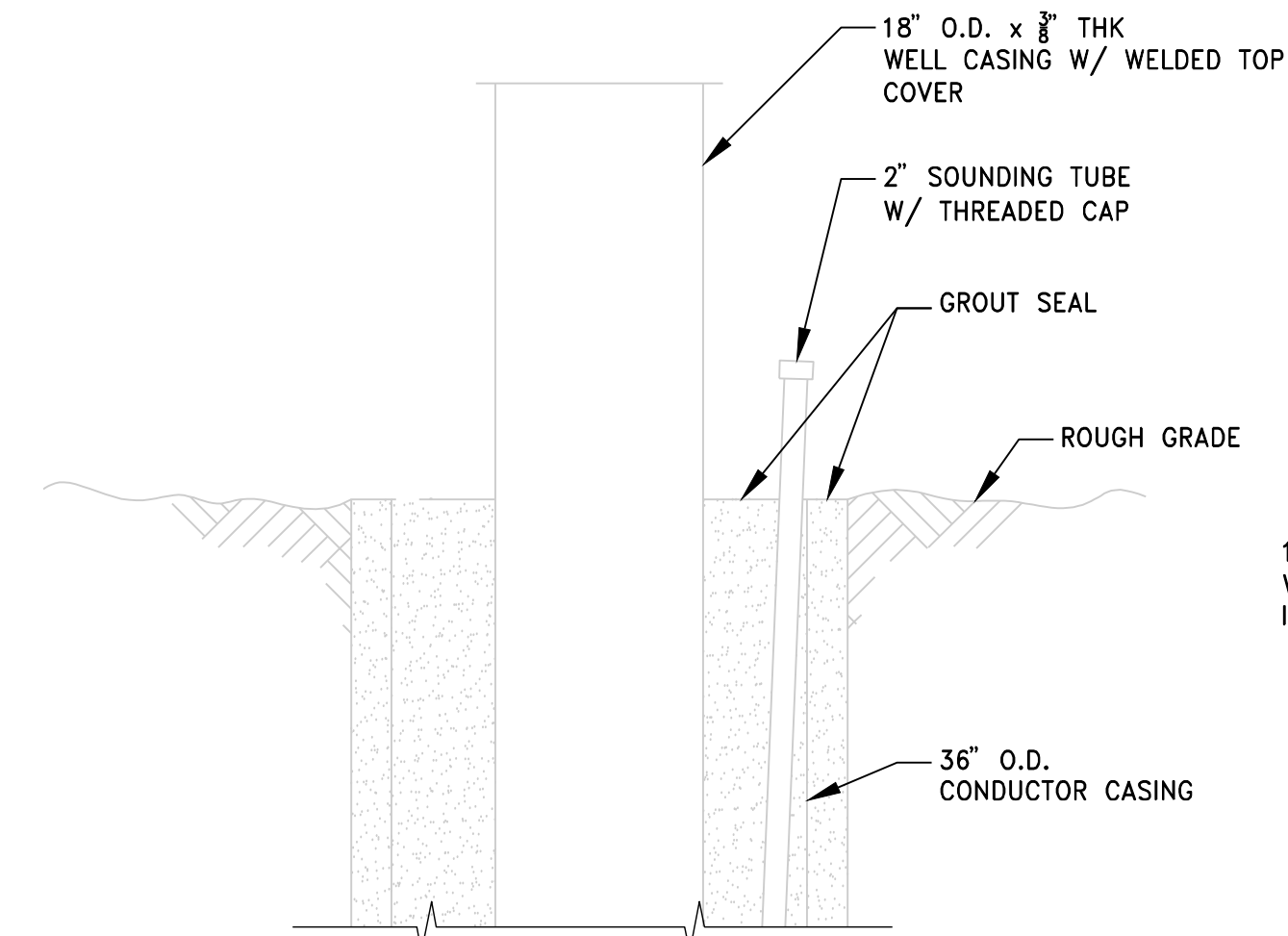
60% DESIGN

NOTES:

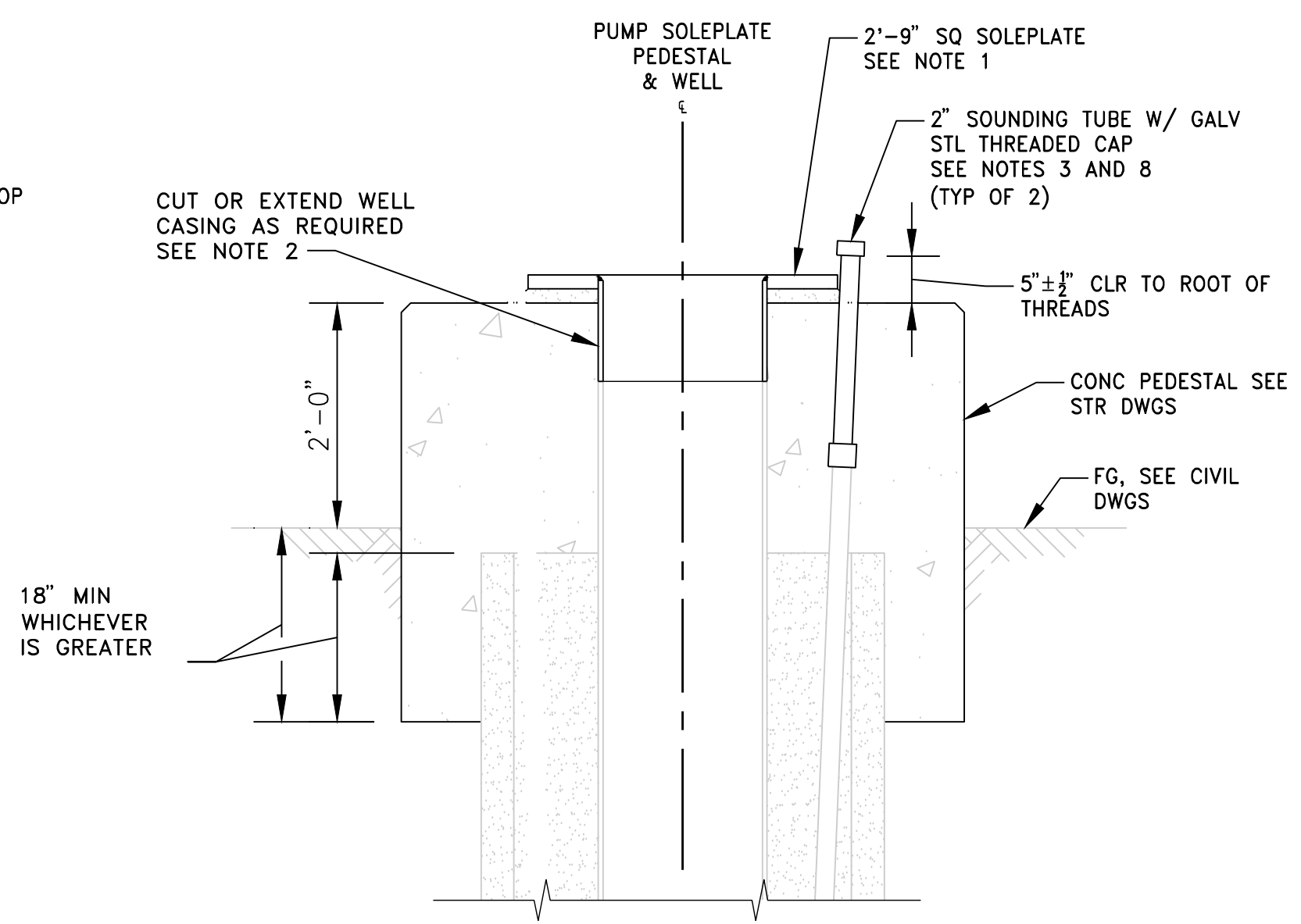
- SOLEPLATE SHALL BE PROVIDED BY PUMP MANUFACTURER. CONFIRM DIMENSIONS OF SOLEPLATE SHOWN WITH THE MANUFACTURER. THICKNESS SHALL BE DETERMINED BY THE MANUFACTURER.
- FINAL HEIGHT OF TOP OF WELL CASING SHALL BE WITHIN THE THICKNESS OF THE SOLEPLATE. SEAL WELD O.D. OF WELL CASING TO I.D. OF SOLEPLATE OPENING. REMOVE ALL WELD SPATTER AND GRIND SMOOTH ANY WELDS PROTRUDING ABOVE THE TOP SURFACE OF THE SOLEPLATE.
- REMOVE 2" THREADED CAPS ON 2" SOUNDING TUBES, TWO TOTAL. EXTEND SOUNDING TUBES WITH 2" GALVANIZED STEEL THREADED COUPLERS, AND 2" SCHEDULE 40 GALVANIZED STEEL THREADED PIPE OF THE REQUIRED LENGTH FOR THE FINAL INSTALLATION AS SHOWN. PROVIDE A GALVANIZED STEEL CAP ON TOP OF EACH SOUNDING TUBE.
- REMOVE GALVANIZED COATING ON SKEWERED END OF 3" VENT PIPE TO ALLOW PIPE TO BE WELDED TO THE WELL CASING AT APPROXIMATELY 45' FROM HORIZONTAL. PRIOR TO WELDING, CUT OBLONG HOLE AT LOCATION OF VENT PIPE WELDMENT. SEAL WELD VENT PIPE SKEWER TO WELL CASING. USE OF A WELDOLET AT THE INTERFACE IS AT THE CONTRACTOR'S OPTION.
- REMOVE 3" THREADED CAP ON 3" GRAVEL FILL TUBE. EXTEND GRAVEL FILL TUBE BY WELDING A 3" SOCKET-WELD 45' STEEL ELBOW AND ADDITIONAL LENGTH OF 3" PLAIN-END BY THREADED-END SCHEDULE 40 GALVANIZED STEEL PIPE AS SHOWN. REMOVE GALVANIZED COATING ON UNTHREADED LOWER END OF 3" PIPE TO ALLOW PIPE TO BE WELDED TO THE SOCKET-WELD ELBOW. PROVIDE 3" GALVANIZED STEEL THREADED CAP ON TOP OF GRAVEL FILL TUBE.
- GRAVEL FILL TUBE MUST BE CUT TO LOCATE SOCKET-WELD ELBOW LOW AS SHOWN TO AVOID INTERFERENCE BETWEEN THE NEW EXTENDED PORTION OF THE GRAVEL FILL TUBE AND THE SOLEPLATE ANCHOR AT THE SAME CORNER.
- PROVIDE BOLTS IN PLACE OF STUDS AT LOCATION OF PUMP BASE PLATE STUDS IN SOLEPLATE. TREAT ENDS OF BOLTS WITH ANTI-SIEZE COMPOUND AND INSERT TO A DEPTH OF 1 FULL THREAD BELOW THE UNDERSIDE OF THE SOLEPLATE PRIOR TO GROUTING THE SOLEPLATE IN PLACE. AFTER GROUT PLACEMENT AND CURING, REMOVE BOLTS AND REPLACE WITH STUDS TO ALLOW FOR PUMP PLACEMENT. STUD, NUT AND WASHER GRADES AND SIZES SHALL MEET PUMP MANUFACTURER REQUIREMENTS, AND A MINIMUM OF TWO COMPLETE THREADS SHALL REMAIN EXPOSED ABOVE EACH NUT AFTER COMPLETION OF PUMP INSTALLATION.
- CONTRACTOR SHALL WELD CHAIN AND LINKS TO THE GALVANIZED STEEL THREADED CAP OR PLUG, AND TO THE ADJACENT MATING PIPE AT EACH LOCATION SHOWN. A SINGLE CHAIN LINK IS TO BE WELDED TO THE CAP OR PLUG. CONTRACTOR SHALL WELD THE FIRST LINK OF A FOUR LINK STRAND CHAIN TO THE PIPE ADJACENT TO THE CAP OR PLUG. CHAIN STRAND AND LINK SHALL BE LOCKABLE BY OWNER PROVIDED PADLOCK SUCH THAT CAP OR PLUG CANNOT BE REMOVED WHILE PADLOCK IS IN PLACE. CHAIN STRANDS AND LINK SHALL BE GALVANIZED STEEL OR ZINC PLATED STEEL, McMASTER-CARR PART NO. 3594T96, OR EQUAL. REPAIR WELDED AREAS WITH A COLD GALVANIZING SPRAY.
- VENT PIPE ASSEMBLY MUST BE AT LEAST 36" ABOVE FINISH GRADE AND SCREENED WITH #24 STAINLESS STEEL MESH.



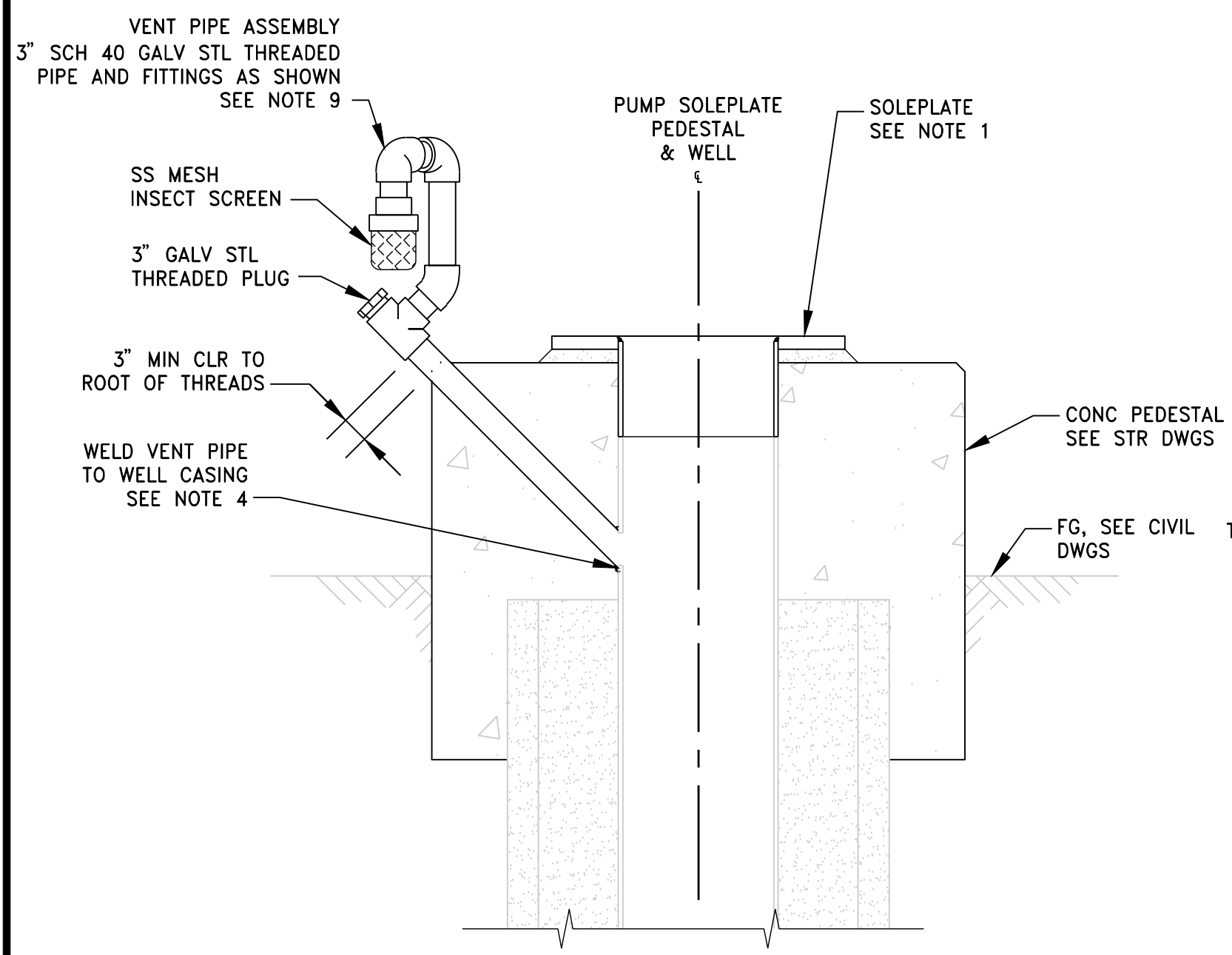
2 WELL HEAD PLAN
SCALE: 3/4"=1'-0"



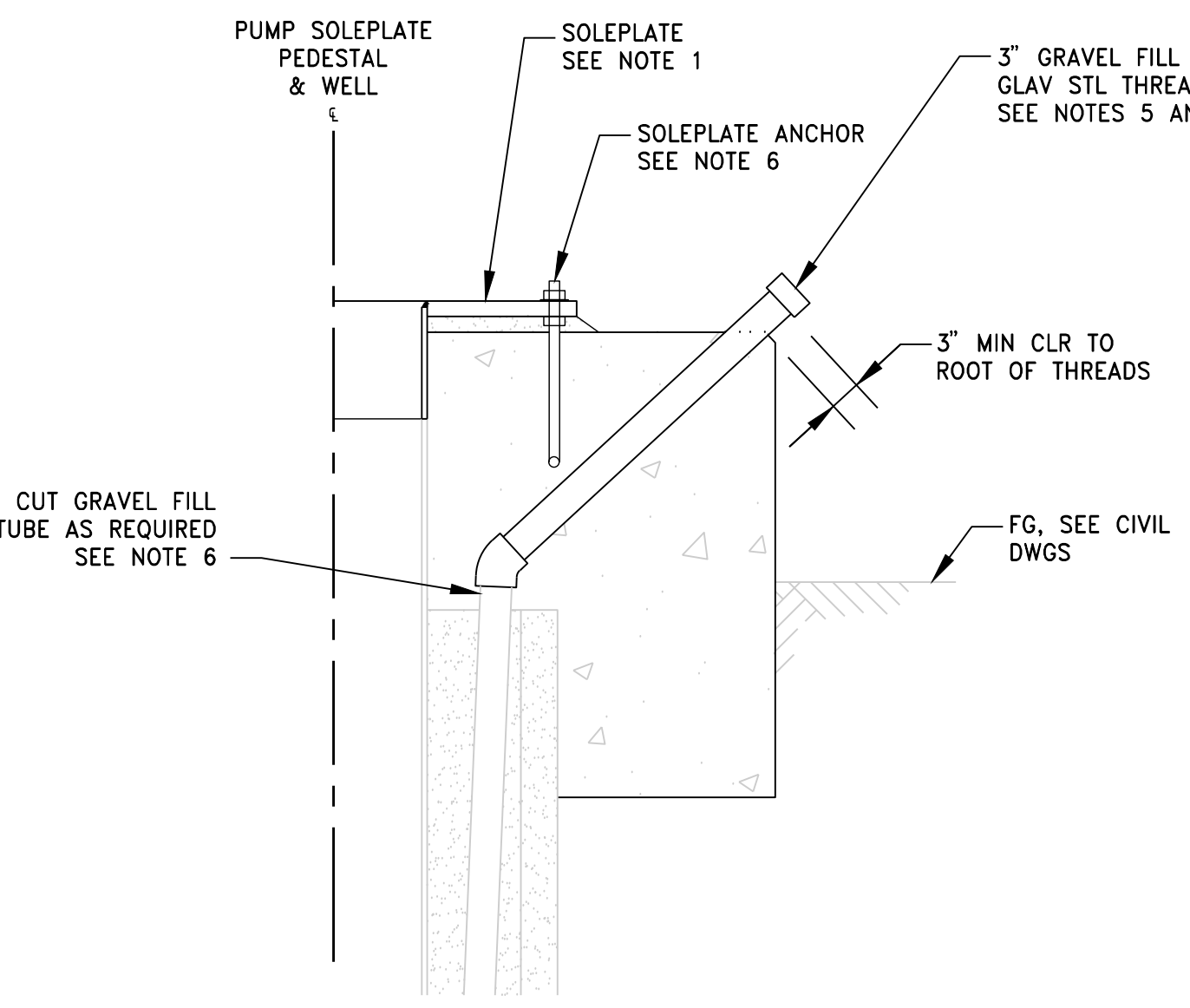
B SECTION (WELLHEAD SHOWN)
SCALE: NTS



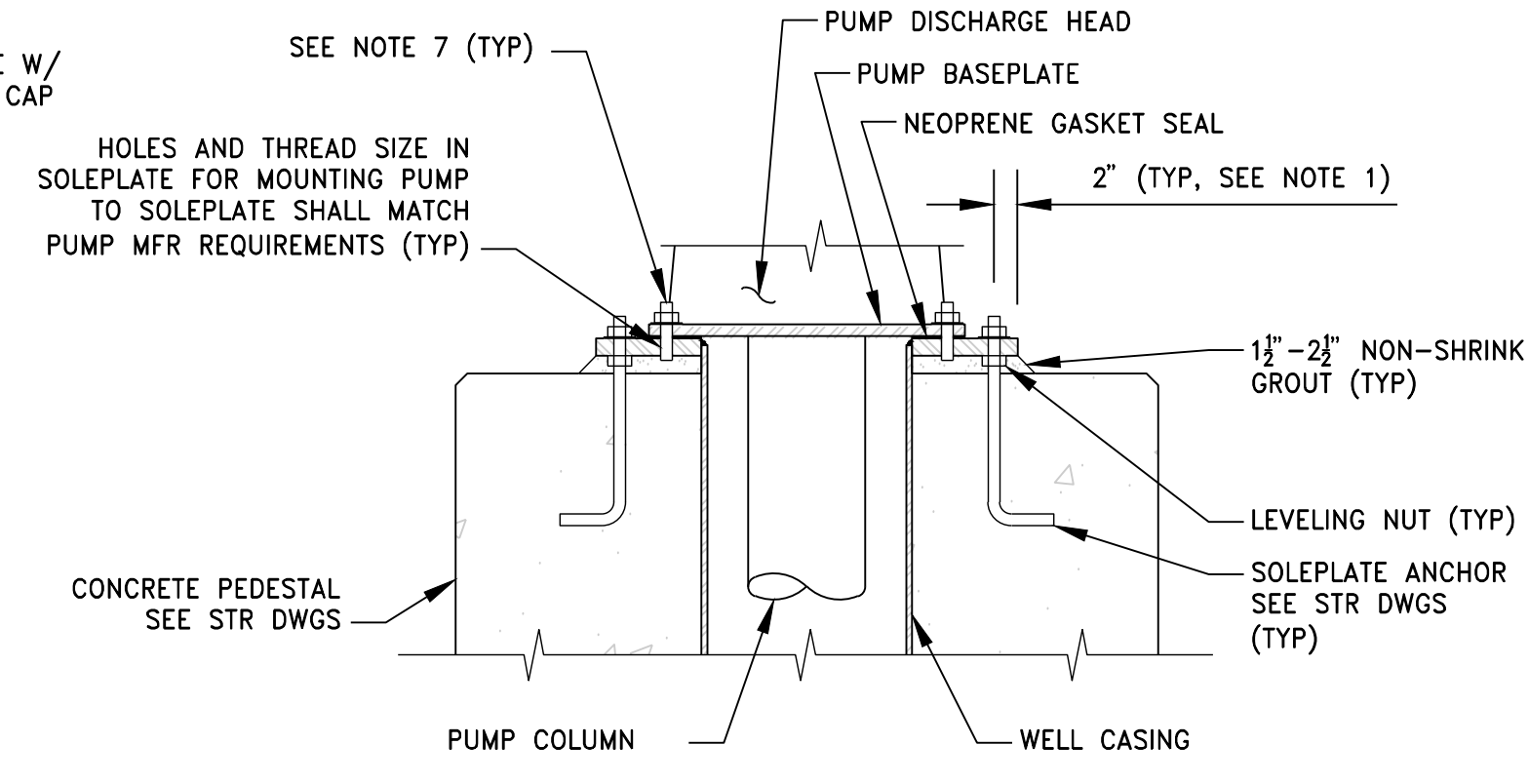
C SECTION
SCALE: 3/4"=1'-0"



D SECTION
SCALE: 3/4"=1'-0"



E SECTION
SCALE: 3/4"=1'-0"

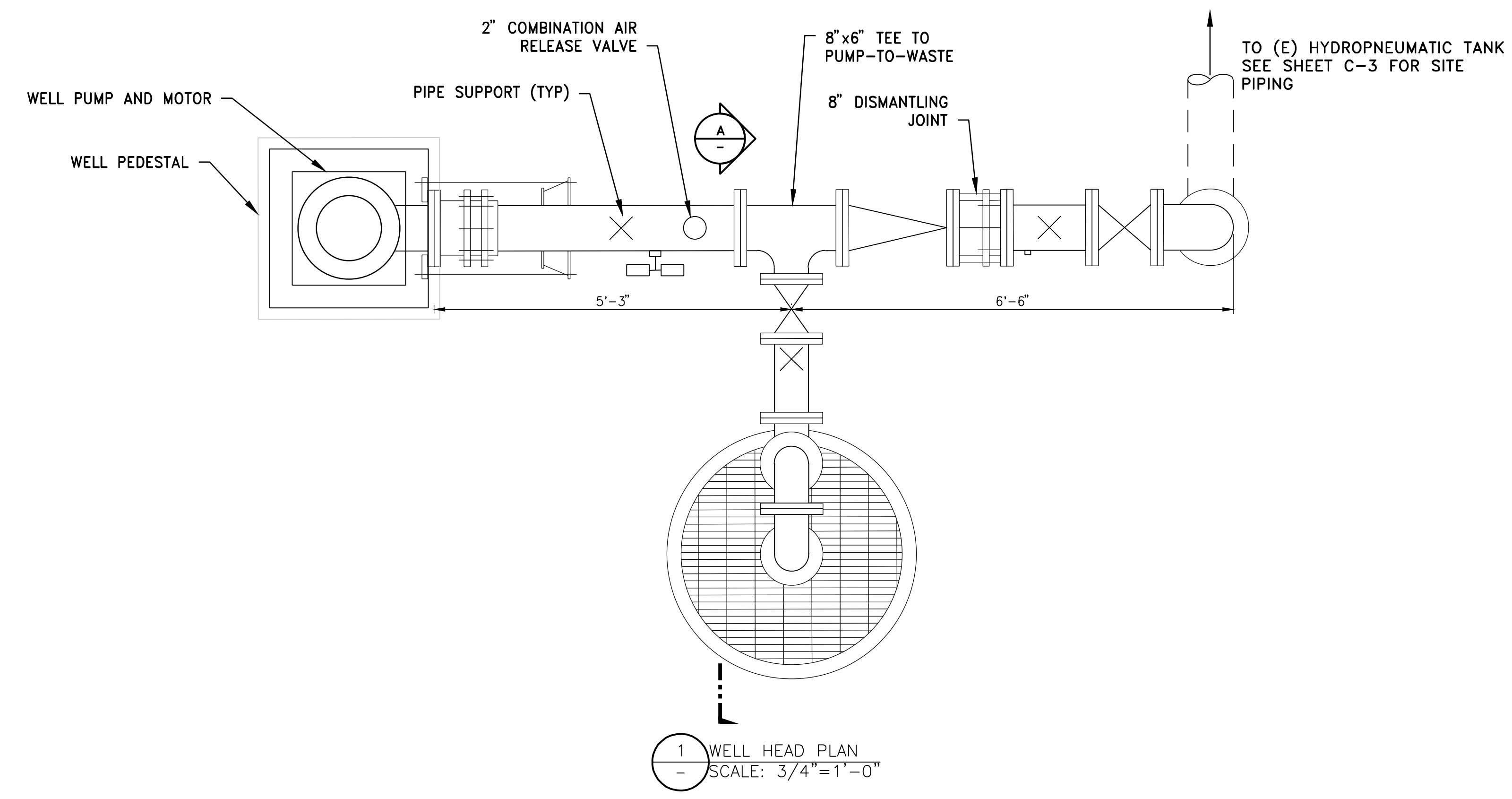
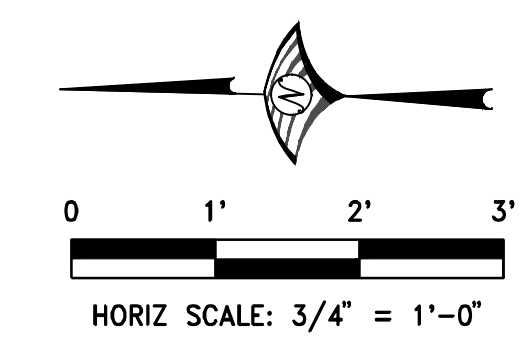


2 ANCHORAGE DETAIL
SCALE: 3/4"=1'-0"

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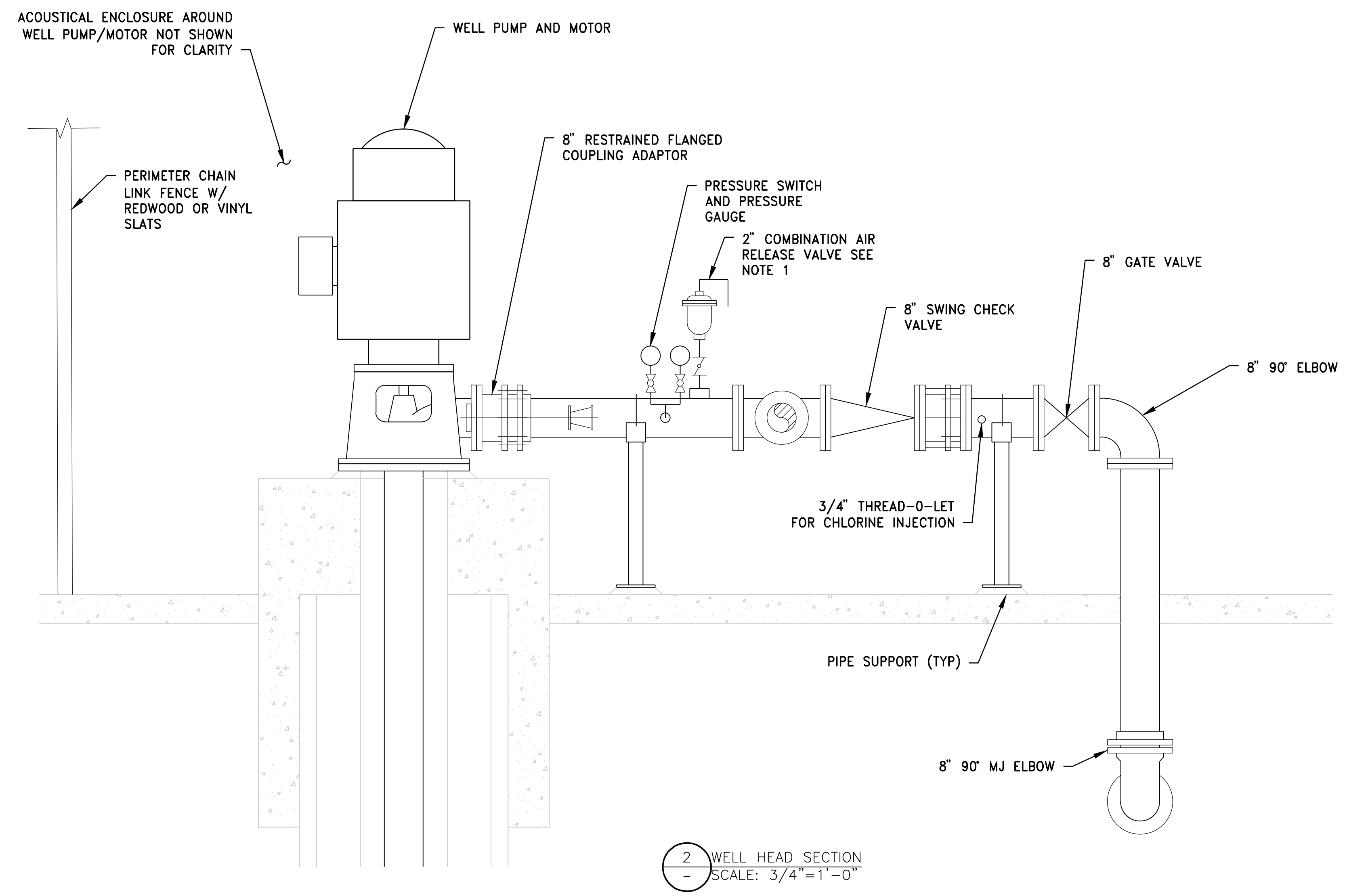
DATE: MAY 2019	SCALE: H. AS SHOWN V. N/A	DRAWN BY: D. DASTOUM	DESIGNED BY: E. GOSSE	CHECKED BY: J. LODGE
WOOD RODGERS DEVELOPING INNOVATIVE DESIGN SOLUTIONS				
3301 C St. Bldg. 100-B Sacramento, CA 95816				
IMPROVEMENT PLANS FOR MD19A&B - PARKWOOD WATER SYSTEM IMPROVEMENTS MECHANICAL SECTIONS AND DETAILS				
MADERA COUNTY CALIFORNIA				
WOOD RODGERS				
REGISTERED PROFESSIONAL ENGINEER FORWARD A. GOSSE M 32246 EXP. 12-31-20 STATE OF CALIFORNIA				
PROJECT NO. 8489.015				
DRAWING M-2				
SHT 8 OF 10				

60% DESIGN

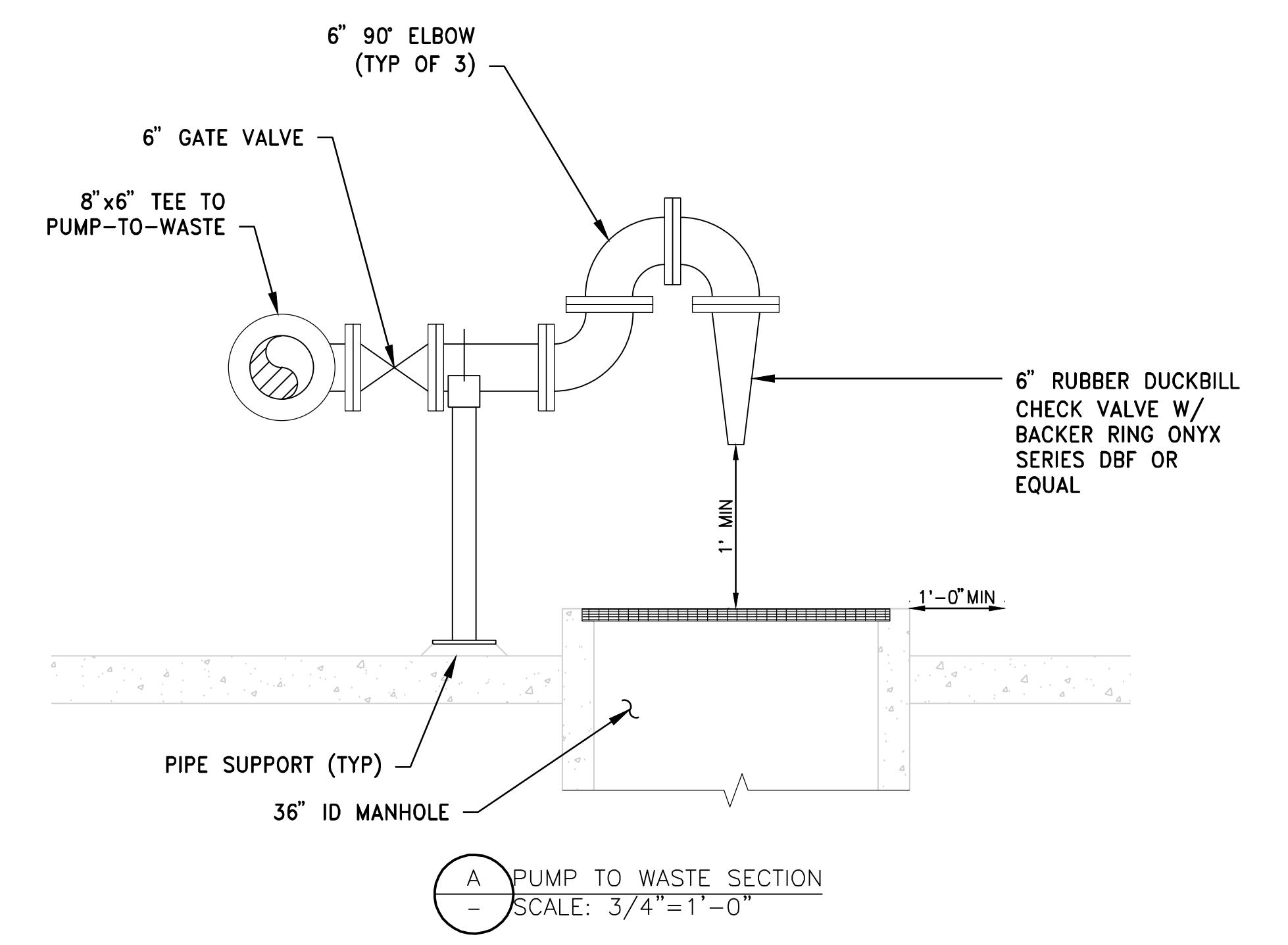


1 WELL HEAD PLAN
SCALE: 3/4"=1'-0"

- NOTES:**
- COMBINATION AIR RELEASE VALVE VENTS MUST BE AT LEAST 36" ABOVE FINISH GRADE AND SCREENED WITH #24 STAINLESS STEEL MESH



2 WELL HEAD SECTION
SCALE: 3/4"=1'-0"



A PUMP TO WASTE SECTION
SCALE: 3/4"=1'-0"

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DATE:	MAY 2019
SCALE:	HI: 3/4" = 1' V: N/A
DRAWN BY:	D. DASTOUM
DESIGNED BY:	E. GOSSE
CHECKED BY:	J. LODGE
ENGR. BY:	
COUNTY APPROVED:	
DESCRIPTION:	
NO.	

WOOD RODGERS
DEVELOPING INNOVATIVE DESIGN SOLUTIONS
3301 D ST. BLDG. 100-B TEL 916.341.7760
SACRAMENTO, CA 95816 FAX 916.341.7767

IMPROVEMENT PLANS FOR
MD19A&B - PARKWOOD
WATER SYSTEM IMPROVEMENTS
WELL 4A MECHANICAL PLAN AND SECTION
MADERA COUNTY CALIFORNIA

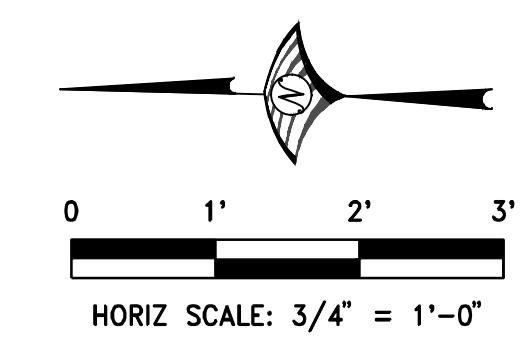
PROJECT NO.	8489.015
DRAWING	M-3
SHT	9 OF 10

WOOD RODGERS

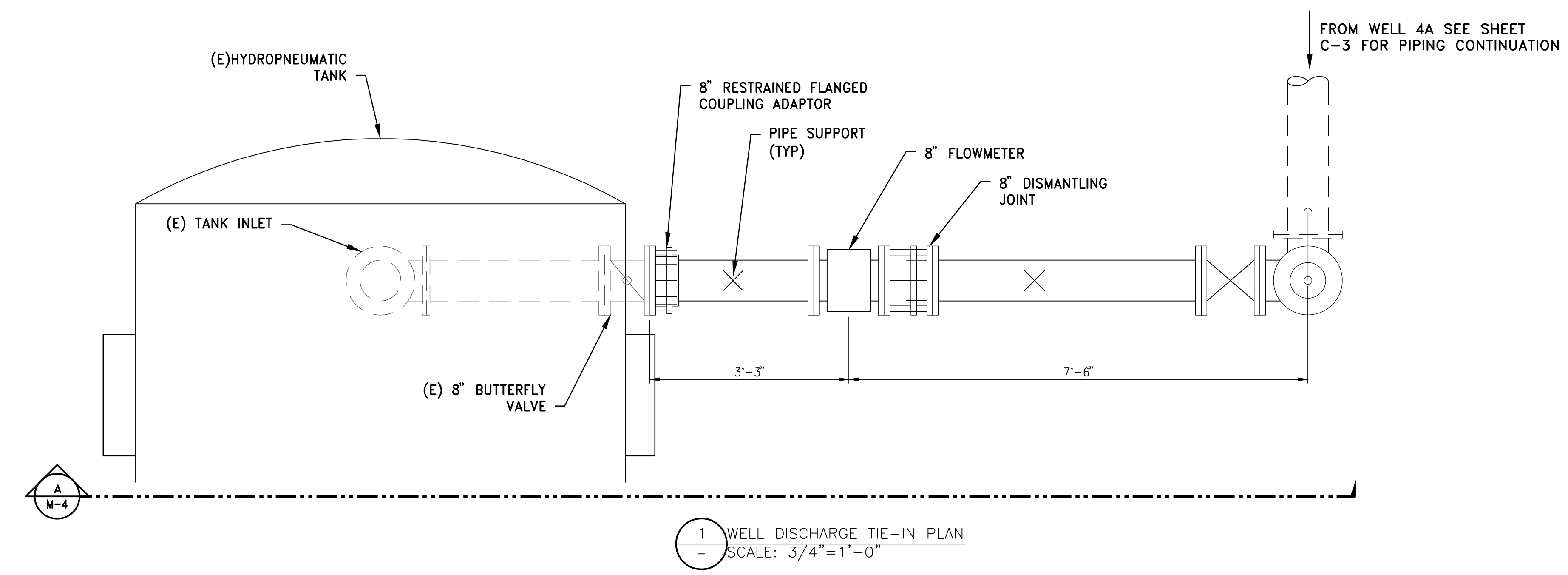
REGISTERED PROFESSIONAL ENGINEER
EDWARD A. GOSSE
M 32246
EXP. 12-31-20
MECHANICAL
STATE OF CALIFORNIA

DATE: _____

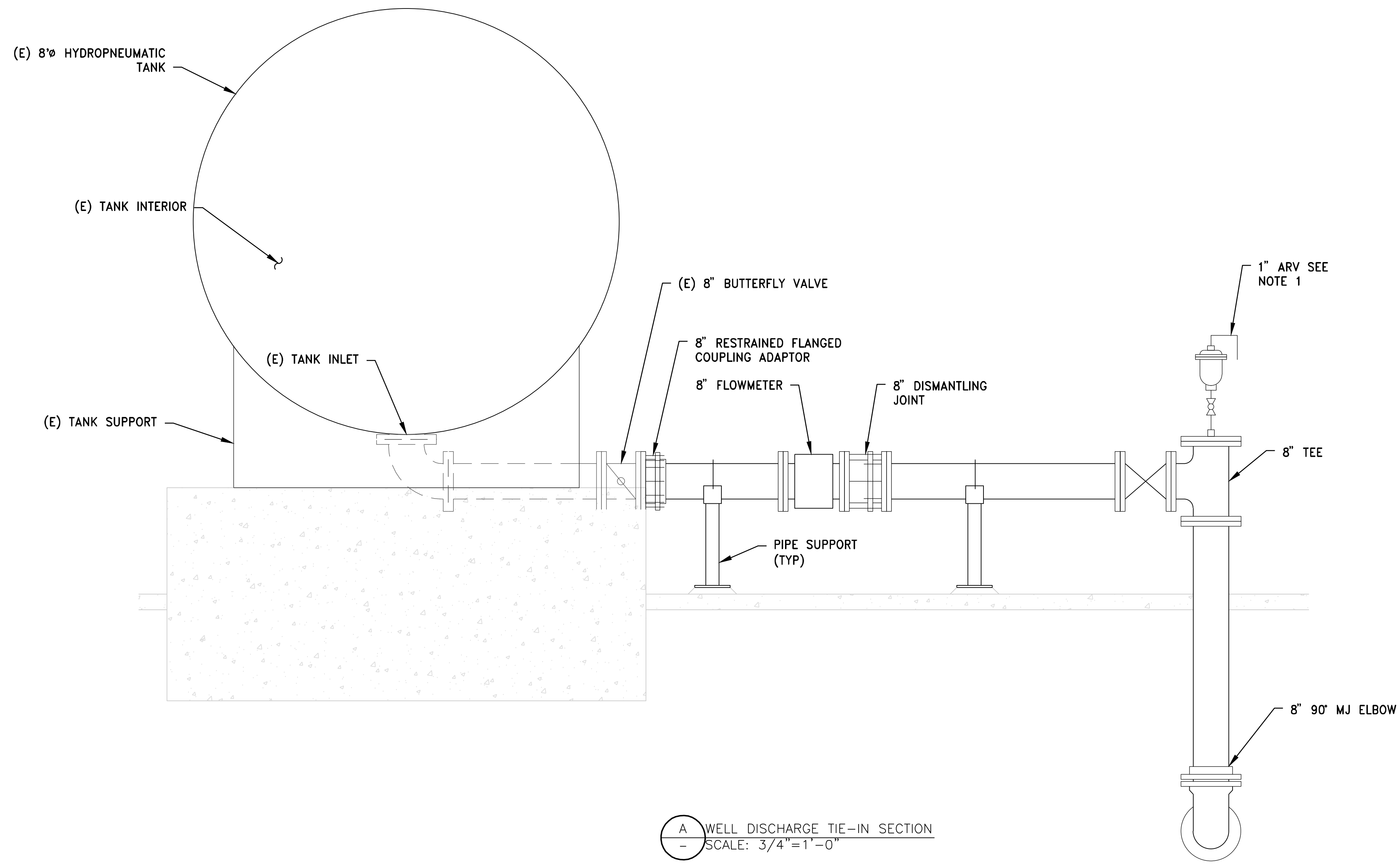
60% DESIGN



- NOTES:
- AIR RELEASE VALVE VENTS MUST BE AT LEAST 36" ABOVE FINISH GRADE AND SCREENED WITH #24 STAINLESS STEEL MESH



1 WELL DISCHARGE TIE-IN PLAN
SCALE: 3/4"=1'-0"



A WELL DISCHARGE TIE-IN SECTION
SCALE: 3/4"=1'-0"

DATE:	MAY 2019
SCALE:	HI: 3/4" = 1' V: N/A
DRAWN BY:	D. DASTOUM
DESIGNED BY:	E. GOSSE
CHECKED BY:	J. LODGE
NO.	
DESCRIPTION	
ENGR	INIT
BY	DATE
COUNTY	APPROVED

IMPROVEMENT PLANS FOR
MD19A&B - PARKWOOD
WATER SYSTEM IMPROVEMENTS
WELL 4A DISCHARGE TIE-IN CONNECTION
CALIFORNIA
MADERA COUNTY

WOOD RODGERS
REGISTERED PROFESSIONAL ENGINEER
EDWARD A. GOSSE
M 32246
EXP. 12-31-20
MECHANICAL
STATE OF CALIFORNIA

PROJECT NO. 8489.015
DRAWING M-4
SHT 10 OF 10

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