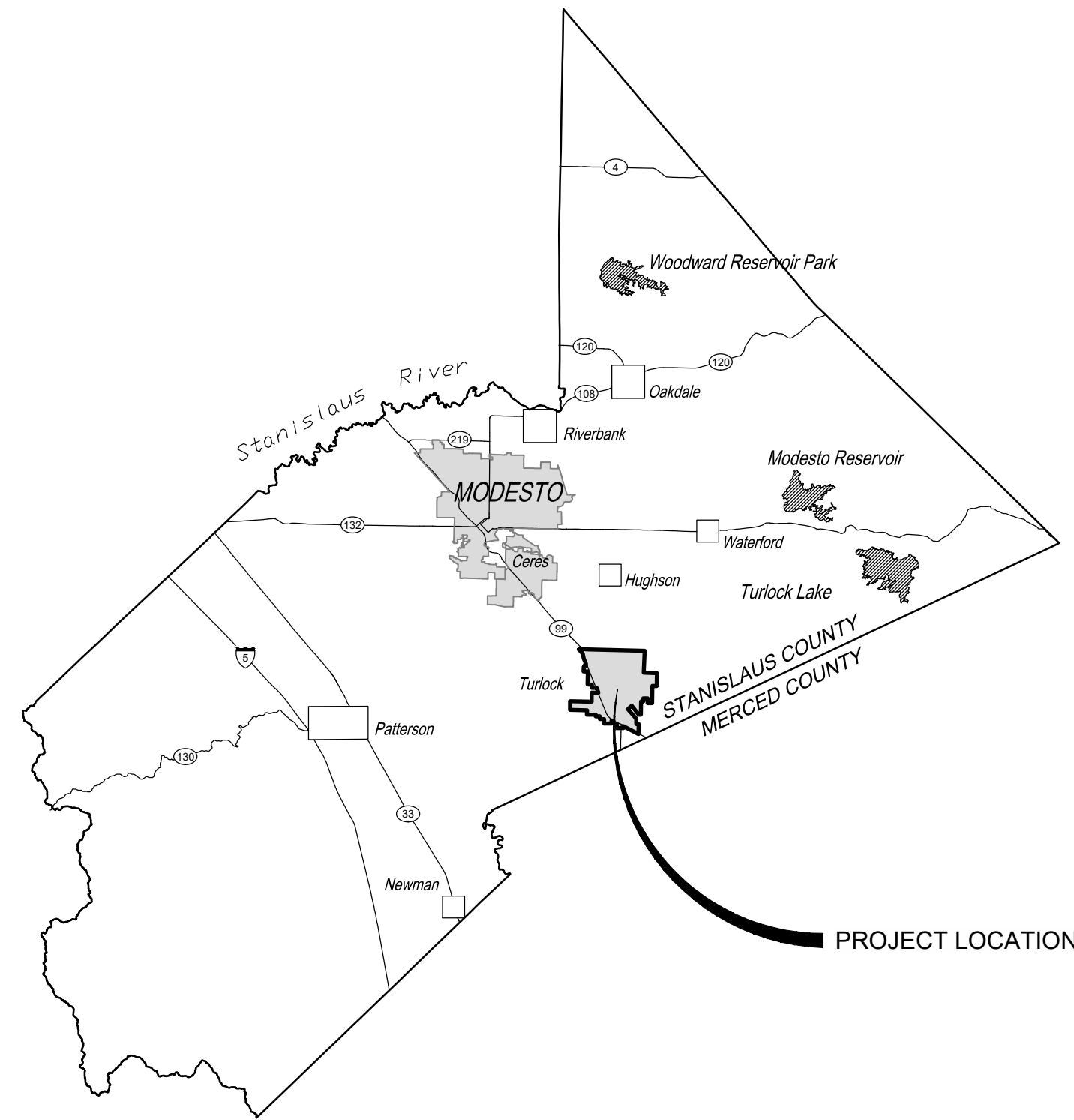
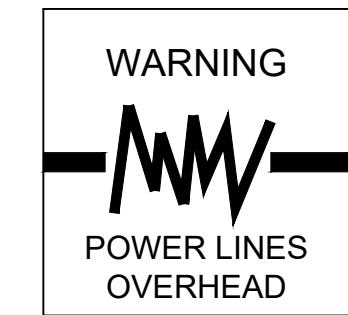


CITY OF TURLOCK

CITY PROJECT NO. 23-046

WELL 29 CHLORINATION



VICINITY MAP
NOT TO SCALE



SITE MAP
NOT TO SCALE

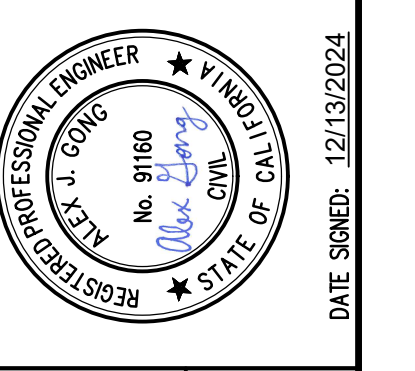
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APPROVALS

	1/7/2025
WILLIAM D. MORRIS, R.C.E., P.L.S., CITY ENGINEER	DATE
	12/16/2024
CARLOS GUERRERO, UTILITIES MANAGER	DATE

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DECEMBER 2024



WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
GENERAL
COVER SHEET

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DATE: DECEMBER 2024
JOB NO: 229223003

PROJECT NO:
PHASE: CD
0 1"
INCH, ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET **G-1**
1 OF 35

ABBREVIATIONS

AB	AGGREGATE BASE	HDW	HEADWALL	T&B	TOP & BOTTOM
AC	ASPHALT CONCRETE	HGL	HYDRAULIC GRADE LINE	TB	TOP OF BANK
ACP	ASBESTOS-CEMENT PIPE	HORIZ	HORIZONTAL	TBM	TEMPORARY BENCHMARK
AD	ALUMINUM DISK	HP	HINGE POINT, HIGH POINT, HORSEPOWER	TC	TOP OF CURB
AGG	AGGREGATE	HP GAS	HIGH PRESSURE GAS	TCE	TEMPORARY CONSTRUCTION EASEMENT
AH	AHEAD	HPS	HIGH PRESSURE SWITCH	TDI	TENSILE DUCTILE IRON
ALT	ALTERNATE	HR	HANDRAIL	TELE	TELEPHONE
AP	ANGLE POINT	HT	HUB & TACK	TF	TOP OF FOOTING
APPROX	APPROXIMATE	HWL	HIGH WATER LEVEL	TFC	TOP FACE OF CURB
APN	ASSESSOR'S PARCEL NUMBER	HYDRO	HYDRO-PNEUMATIC	TG	TOP OF GRATE
ARV	AIR RELIEF VALVE	ID	INSIDE DIAMETER	TH	THREAD
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IN	INCH	TL	TOP OF LINING
AV	AIR VENT	INV	INVERT	TOE	TOE OF SLOPE
AVE	AVENUE	IP	IRON PIPE	TOP	TOP OF SLOPE
AWWA	AMERICAN WATER WORKS ASSOCIATION	IRR	IRRIGATION	TP	TELEPHONE POLE
BAR	BARRIER	JP	JUNCTION POLE	TR	TELEPHONE RISER
BC	BEGIN CURVE	LBS	POUNDS	TRANS	TRANSFORMER
BD	BRASS DISK	LC	LENGTH OF CURVE	TRFC	TRAFFIC
BFP	BACKFLOW PREVENTER	LCW	LONG CRESTED WEIR	TS	TOP OF STRUCTURE
BK	BACK	LF	LINEAR FEET	TSB	TELEPHONE SPLICE BOX
BLDG	BUILDING	LG	LONG	TYP	TYPICAL
BM	BENCHMARK	LT	LEFT	TWL	TOP OF WALL
BO	BOLLARD	LPG	LIQUEFIED PETROLEUM GAS	UG	UNDERGROUND
BS	BORING SITE	MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
BTM	BOTTOM	MB	MAILBOX	UP	UTILITY POLE
BVC	BEGIN VERTICAL CURVATURE	MCC	MOTOR CONTROL CENTER	UT	UTILITY
BW	BACK OF WALK	MFR	MANUFACTURER	UIS	UPSTREAM
BWL	BACK OF WALL	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
BWR	BARB WIRE	MIN	MINIMUM	VERT	VERTICAL
C, CONC	CONCRETE	MISC	MISCELLANEOUS	VG	VALLEY GUTTER
CA	CALIFORNIA	MJ	MECHANICAL JOINT	VL	VAULT
CAB	CABINET	MN	MAG NAIL	VLV	VALVE
CBL	CABLE	MP	MEDIUM PRESSURE GAS LINE	(W)	WEST
CFS	CUBIC FEET PER SECOND	MPT	MALE PIPE THREAD	W	WATER
C&G	CURB & GUTTER	MRKR	MARKER	WL	WATER LINE
CHK	CHECK	MS	MILD STEEL	WM	WATER METER
CHLK	CHAIN LINK	(N)	NORTH	WS	WATER SERVICE
CI	CAST IRON	NAVD	NORTH AMERICAN VERTICAL DATUM	WV	WATER VALVE
CIP	CAST IRON PIPE	NC	NORMALLY CONSOLIDATED	WW	WASTE WATER
CIPCP	CAST-IN-PLACE CONCRETE PIPE	NGVD	NATIONAL GEODETIC VERTICAL DATUM	W/	WITH
CL	CLASS	NIC	NOT IN CONTRACT	W/O	WITHOUT
CLVT	CULVERT	NPT	NATIONAL PIPE THREAD		
℄	CENTERLINE	NTS	NOT TO SCALE		
CLF	CHAIN LINK FENCE	OC	ON CENTER		
CLR	CLEAR, CLEARANCE	OD	OUTSIDE DIAMETER		
CMLC	CEMENT MORTAR LINED & COATED	OH	OVERHEAD		
CMP	CORRUGATED METAL PIPE	OP	OPERATING		
CN	CONCRETE NAIL	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION		
CNS	COMPACTED NATIVE SOIL	O&M	OPERATIONS & MAINTENANCE		
CO	SEWER CLEAN OUT	(P)	PROPOSED		
CONT	CONTINUOUS	PB	PULL BOX		
CONST	CONSTRUCT/CONSTRUCTION	PC	POINT OF CURVATURE		
COR	CORNER	PCC	POINT OF COMPOUND CURVATURE		
CORP	CORPORATION	PCC	PORTLAND CEMENT CONCRETE		
COL	COLUMN	PE	PERMANENT EASEMENT		
COUP	COUPLING	PER	PERIMETER		
CP	CONTROL POINT	PI	POINT OF INTERSECTION		
CR	CROWN	PIP	PLASTIC IRRIGATION PIPE		
CU	CUBIC	PLC	PROGRAMMABLE LOGIC CONTROLLER		
CY	CUBIC YARDS	℄	PROPERTY LINE		
DA	DRIVE APPROACH	PNL	PANEL		
DEC	DECIDUOUS	POC	POINT ON CURVE		
DEMO	DEMOLISH/DEMOLITION	POL	POINT ON LINE		
DI	DROP INLET	POT	POINT ON TANGENT		
DIA, Ø	DIAMETER	PP	POWER POLE		
DIM	DIMENSION	PRC	POINT OF REVERSE CURVATURE		
DIP	DUCTILE IRON PIPE	PRV	PRESSURE REDUCING VALVE		
D/S	DOWNSTREAM	PSF	POUNDS PER SQUARE FOOT		
DW	DRIVEWAY	PSI	POUNDS PER SQUARE INCH		
DWG	DRAWING	PT	POINT OF TANGENCY		
(E)	EXISTING, EAST	PVC	POLYVINYL CHLORIDE		
EA	EACH	PVCC	POINT OF VERTICAL COMPOUND CURVATURE		
EC	END CURVE	PVMT	PAVEMENT		
ECC	ECCENTRIC	PVRC	POINT OF VERTICAL REVERSE CURVATURE		
EF	EACH FACE	PVI	POINT OF VERTICAL INTERSECTION		
EG	EXISTING GRADE	R	RADIUS		
EL, ELEV	ELEVATION	RBR	REBAR		
ELC	EPOXY LINED & COATED	RC	RADIUS OF CURVE		
ELC	ELECTRIC	RCP	REINFORCED CONCRETE PIPE		
ELL	ELBOW	RD	RELATIVE DENSITY		
EM	ELECTRIC METER	RD	ROAD		
EOL	END OF LINE	RE	REFERENCE		
EP	EDGE OF PAVEMENT	REQD	REQUIRED		
EQUIV	EQUIVALENT	RET	RETURN		
ESMT	EASEMENT	REV	REVISION		
EUC	EUCALYPTUS	RGRCP	RUBBER GASKETED REINFORCED CONCRETE PIPE		
EVC	END VERTICAL CURVE	RGS	RIGID GALVANIZED STEEL		
EW	EACH WAY	RP	RADIUS POINT		
EX	EXPOSED	RR	RAILROAD		
(F)	FUTURE	RT	RIGHT		
F&I	FURNISH & INSTALL	RTU	REMOTE TERMINAL UNIT		
FD	FOUND	R/W	RIGHT OF WAY		
FDC	FIRE DEPARTMENT CONNECTION	(S)	SOUTH, SOLVENT WELD		
FF	FINISHED FLOOR	S	SLIP		
FG	FINISHED GRADE	S=	SLOPE		
FH	FIRE HYDRANT	SCH	SCHEDULE		
℄, FL	FLOW LINE	SCP	STANDARD CONCRETE PIPE		
FLG	FLANGE	SD	STORM DRAIN		
FLGD	FLANGED	SDMH	STORM DRAIN MANHOLE		
FM	FORCE MAIN	SEC	SECTION		
FNC	FENCE	SERV	SERVICE		
FRP	FIBER REINFORCED POLYESTER PIPE	SF	SQUARE FEET		
FT	FOOT/FEET	SP	SERVICE POLE		
FW	FRONT OF WALK	SPEC	SPECIFICATION		
FWL	FACE OF WALL	SPNDL	SPINDLE		
GA	GAUGE	SQ	SQUARE		
GAL	GALLON	SS	SANITARY SEWER		
GALV	GALVANIZED	SS OR STS	STAINLESS STEEL		
GB	GRADE BREAK	SSMH	SANITARY SEWER MANHOLE		
GM	GAS METER	STA	STATION		
GPM	GALLONS PER MINUTE	STD	STANDARD		
GRVL	GRAVEL	STL	STEEL		
GS	GAS	STP	STAND PIPE		
GSV	GAS VALVE	STRC	STRUCTURE		
GUY	GUY WIRE	STRP	STRIPING		
GV	GATE VALVE	SWL	SWALE		
HD	HEAD	STWL	STILLING WELL		
HDPE	HIGH DENSITY POLYETHYLENE	(T)	THREADED		
HDR	HEADER	T	THREAD		

LINETYPES

EXISTING	LINETYPE	NEW	DESCRIPTION
			WATER LEVEL
			BARRICADE
			CONTOUR (DEPRESSION)
			CONTOUR (MAJOR)
			CONTOUR (MINOR)
			EMBANKMENT TOE
			EMBANKMENT TOP
			FENCE (BLOCK WALL)
			FENCE (CHAIN LINK)
			FENCE (WOOD)
			FENCE (WIRE)
			FENCE (SILT)
			GATE SWING
			GRADE BREAK
			GUARDRAIL
			RAILROAD
			RETAINING WALL
			SWALE CENTERLINE
			SWALE W/FLOW ARROWS
			WATER (LAKE/POND)
			WATER (MARSH/SWAMP)
			COMPUTER/COMM. (BURIED)
			ELECTRIC (AERIAL)
			ELECTRIC (BURIED)
			FIBER-OPTIC
			GAS
			IRRIGATION
			OIL
			SANITARY SEWER
			SANITARY SEWER FORCE MAIN
			SANITARY SEWER LATERAL
			SIGNAL INTERCONNECT (BURIED)
			STEAM
			STORM DRAINAGE
			TELEPHONE (AERIAL)
			TELEPHONE (BURIED)
			TELEVISION (AERIAL LINE)
			TELEVISION (BURIED LINE)
			WATER
			CENTERLINE
			EASEMENT
			MEANDER LINE
			PROPERTY LINE
			RESERVATION/PARK/FOREST
			RIGHT-OF-WAY
			RELINQUISH ACCESS LINE
			SECTION LINE
			STATE/COUNTY/CORPORATE LIMIT
			REVISION CLOUD
			SAWCUT LINE
			DEMO LINE
			WORK LIMITS

EXISTING	HATCH TYPE	NEW	DESCRIPTION
			AGGREGATE
			AC PAVEMENT
			CONCRETE
			CONCRETE LINING (PLAN VIEW)
			EARTH
			RIP RAP
			SAND
			GRATING
			EXPANDED METAL

PIPE FITTINGS

	FLANGED JOINT
	MECHANICAL JOINT
	ABOVE GRADE PIPE
	BELOW GRADE PIPE

SYMBOLS

EXISTING	NEW	DESCRIPTION
		ELECTRIC METER
		PAD MOUNTED TRANSFORMER
		ELECTRIC VAULT
		UTILITY POLE
		UTILITY POLE ANCHOR
		ELECTRIC MANHOLE
		GAS METER
		GAS VALVE
		SANITARY SEWER CLEAN OUT
		SANITARY SEWER MANHOLE
		SSMH (ECCENTRIC CONE)
		STORM DRAIN CATCH BASIN
		STORM DRAIN INLET
		STORM DRAIN CULVERT
		STORM DRAIN MANHOLE
		MAIL BOX
		SIGN
		YARD LIGHT
		GUARD POST
		CONTROL POINT
		BENCH MARK
		IRON PIPE
		MONUMENT
		MONUMENT (OPTIONAL)
		OWNERSHIP TIE
		LOT NUMBER
		TELEPHONE RISER
		TELEPHONE VAULT
		2-NOZZLE HYDRANT
		3-NOZZLE HYDRANT
		FIRE DEPT. CONNECTION
		FIRE VAULT
		WATER METER
		WELL
		WATER VALVE
		BLOW-OFF
		AIR RELIEF VALVE
		BACK FLOW PREVENTOR
		GATE VALVE HANDLE
		STILLING WELL
		FENCE POST
		FENCE GATE
		REVISION
		CONSTRUCTION CALLOUT
		DETAIL CALLOUT
		LINE BREAK
		PIPE END (SCHEMATIC)
		PIPE END
		EMBANKMENT ARROW
		HIGH WATER LINE
		SPOT ELEVATION
		SECTION VIEW

ISSUED FOR BIDDING PURPOSES
DECEMBER 2024

WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
GENERAL

LEGENDS AND ABBREVIATIONS

GENERAL CITY NOTES

- DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN HORIZONTAL PLANE. GRADES ARE GIVEN FROM THE TOP OF STAKES OR NAILS UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PRESERVE ALL STAKES AND POINTS SET FOR LINES, GRADES OR MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
- ALL WORK TO BE DONE IN ACCORDANCE WITH CITY OF TURLOCK STANDARDS.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL SAFETY AND LABOR CODES.
- CONTRACTOR SHALL OBTAIN ENCROACHMENT PERMIT FROM THE CITY OF TURLOCK PRIOR TO BEGINNING WORK (NO FEE).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION AND PROTECTION OF ALL UNDERGROUND PIPES, CONDUITS AND OTHER IMPROVEMENTS WHETHER SHOWN ON THE PLANS OR NOT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY:
 - UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 TO LOCATE EXACT POSITION OF UNDERGROUND TELEPHONE CABLE, GAS LINES, SEWER LINES AND WATER LINES.
 - TURLOCK IRRIGATION DISTRICT AT (209) 883-8464 TO LOCATE UNDERGROUND ELECTRICAL CONDUIT.
 - CHARTER CABLE AT (209) 656-2124 TO LOCATE UNDERGROUND CABLE T.V.
 - FIRE DEPARTMENT AT (209) 668-5580, POLICE DEPT. AT (209) 668-5550 AND AMBULANCE AT (209) 632-2271.
- ANY UTILITY TO BE RELOCATED OR REMOVED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
- WHERE EXISTING PAVEMENT IS SCHEDULED TO BE REMOVED ADJACENT TO EXISTING PAVEMENT TO REMAIN IN PLACE, THE CONTRACTOR SHALL SAWCUT THE EXISTING PAVEMENT TO INSURE CLEAN VERTICAL EDGE TO PAVE AGAINST.
- LOCATION AND DEPTH OF EXISTING SUB—SURFACE STRUCTURE ARE NOT GUARANTEED. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING BURIED UTILITIES SHOWN ON THE PLANS PRIOR TO DIGGING NEAR EXISTING BURIED UTILITIES.
- ALL REFERENCES AND WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.

DEMOLITION

- UNLESS NOTED OTHERWISE ON THE PLANS, ALL DEMOLISHED MATERIALS AND DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR.
- DEMOLISH CONCRETE & ASPHALT SURFACING REQUIRED FOR UNDERGROUND PIPING, REPAIR TO EXISTING CONDITION.

LANDSCAPING

- THE CONTRACTOR SHALL REPLACE ALL LANDSCAPE IRRIGATION COMPONENTS (E.G. IRRIGATION PIPE, VALVES, CONTROLS, CONTROL WIRING, SPRAY HEADS, ETC.) DISTURBED DURING CONSTRUCTION.
- REPLACEMENT SPRAY HEADS SHALL BE OF A TYPE SUITABLE FOR PROVIDING FULL COVERAGE OF LANDSCAPING ACCOUNTING FOR CHANGES IN SPRAY HEAD AND PLANT LOCATIONS IF REQUIRED.

GENERAL

- BEFORE COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND SIZE OF ALL UTILITIES IN THE WORK AREA. THE WORK SHALL NOT BE COMMENCED UNTIL THE CONTRACTOR HAS FIRST BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER FOR SUB-SURFACE INSTALLATIONS AS SPECIFIED IN SECTION 4216 OF THE GOVERNMENT CODE.
- CONTRACTOR SHALL NOTIFY AND COORDINATE ALL RELATED WORK WITH THE FOLLOWING AGENCIES:
 - CITY OF TURLOCK
 - CITY OF TURLOCK PUBLIC WORKS DEPARTMENT
 - CITY OF TURLOCK PARKS DEPARTMENT
 - PACIFIC GAS AND ELECTRIC COMPANY
 - AT&T
 - TURLOCK IRRIGATION DISTRICT
- ALL WATER DISTRIBUTION SYSTEM MAINS AND SERVICE CONNECTIONS SHALL BE KEPT IN CONSTANT SERVICE DURING THE WORK.
- THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS FOR ALL PROJECT IMPROVEMENTS.
- DETAILS AND NOTES ON TYPICAL SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS.
- ALL DIMENSIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK OR FABRICATION. IF ANY CONDITION EXISTS THAT IS NOT AS SHOWN ON THE DRAWINGS THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DRAWINGS.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTOR(S) USING MATERIALS AND METHODS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE 2023 CALIFORNIA BUILDING CODE (CBC), LOCAL CODES AND ORDINANCES.
- ANY CHANGES TO THE APPROVED SET OF PLANS WITHOUT NOTIFYING THE ENGINEER PRIOR TO SUCH CHANGES ABSOLVES SAID ENGINEER FROM ANY AND ALL RESPONSIBILITY WITH RESPECT TO THE LIABILITY, DAMAGE OR EXTRA WORK RESULTING FROM SAID CHANGES.
- ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF OSHA AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.
- THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER OR FIELD REPRESENTATIVES DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

PIPING

- PIPE MATERIALS
 - ALL BURIED PRESSURE PIPING WITHIN THE SITE PROPERTY LINES SHALL BE DUCTILE IRON PIPE CONFORMING TO SPECIFICATION 40 05 00 UNLESS OTHERWISE NOTED.
 - ALL ABOVE GRADE PIPING 4 INCHES AND LARGER SHALL BE FBELC WELDED STEEL PIPE WITH FLANGED OR GROOVED CONNECTIONS CONFORMING TO SPECIFICATION 40 05 00 UNLESS OTHERWISE NOTED
 - ALL CHEMICAL PIPING SHALL BE 1/2-INCH POLYETHYLENE TUBING INSIDE OF EPVC CONDUIT CONFORMING TO SPECIFICATION 40 20 90 OR DOUBLE CONTAINED PIPING UNLESS OTHERWISE NOTED.
 - DRAIN PIPING 4 INCHES AND SMALLER SHALL BE ASTM D 3034, SDR 35, UNLESS NOTED OTHERWISE.
- RESTRAIN ALL ON-SITE PRESSURE PIPING IN ACCORDANCE WITH SPECIFICATION 40 05 00. THRUST BLOCKS WILL NOT BE ACCEPTABLE.
- THE WORK CONTAINED HEREIN SHALL COMPLY WITH TITLE 22 SECTION 64572 OF THE CALIFORNIA CODE OF REGULATIONS. REFER TO WATER MAIN SEPARATION REQUIREMENTS DETAIL.
- ALL HARDWARE FOR BURIED PIPE CONNECTIONS SHALL BE STAINLESS STEEL REGARDLESS OF TYPE (RESTRAINED MJ, FLANGE, ETC.).
- NEW WATER MAINS, TANKS, AND TREATMENT EQUIPMENT SHALL BE DISINFECTED AND TESTED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO BEING PLACED INTO SERVICE.

GRADING

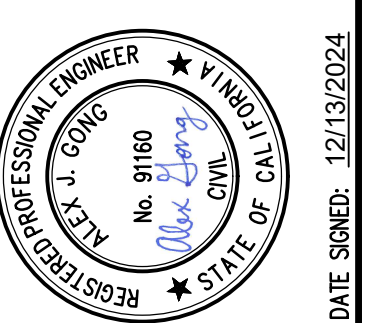
- THE WORK EMBRACED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF CHAPTER 33 OF 2023 CALIFORNIA BUILDING CODE AS ADOPTED.
- THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM ANY PROPERTY OWNER GIVING HIM PERMISSION TO ENTER HIS PROPERTY FOR THE PURPOSES OF CONSTRUCTING THE IMPROVEMENTS DELINEATED ON THE PLANS AND TRANSITIONS THERETO OR STAGING MATERIALS AND EQUIPMENT TO SUPPORT CONSTRUCTION. CONTRACTOR SHALL SUBMIT A LETTER SIGNED BY THE PROPERTY OWNER THAT THE PROPERTY HAS BEEN PROPERLY RESTORED TO ITS PRE-CONSTRUCTION CONDITION.
- ANY DIRT OR DEBRIS TRACKED ONTO ANY EXISTING ROAD FROM THIS PROJECT SHALL BE CLEANED OFF AT THE END OF EACH WORKING DAY TO THE SATISFACTION OF THE CITY.
- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL NOTIFY U.S.A. TWO (2) DAYS PRIOR TO BEGINNING ANY EXCAVATION.
- PROVIDE THE CITY OF TURLOCK WITH "AS BUILT" PLANS UPON COMPLETION OF GRADING
- ANY VERTICAL CUT OR FILL DIFFERENTIAL EQUAL TO OR GREATER THAN TWELVE (12) INCHES BETWEEN ADJACENT PROPERTIES SHALL BE SUPPORTED BY AN APPROVED RETAINING WALL.
- DIFFERENTIALS LESS THAN TWELVE (12) INCHES ARE TO HAVE A MAXIMUM SLOPE OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL.
- GRADING CONTRACTOR SHALL REMOVE ALL ORGANIC MATTER, DEBRIS, AND OTHER DELETERIOUS OR EXCESS MATERIAL FROM THE SITE AND DISPOSE OF AT AN APPROVED LOCATION. SUBSURFACE DEBRIS NOT VISIBLE FROM THE SURFACE THAT IS NOT SUITABLE TO REMAIN ONSITE OR USED AS BACKFILL MATERIAL SHALL BE REMOVED AT ENGINEER'S DIRECTION AS EXTRA WORK.
- CONTRACTOR SHALL PRESERVE SURVEY MONUMENTS TO THE EXTENT POSSIBLE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY SURVEY MONUMENTS THAT WILL BE DISTURBED AS A RESULT OF CONSTRUCTION. MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION WILL BE RESET BY A LICENSED LAND SURVEYOR RETAINED BY THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR DUST CONTROL FOR THE DURATION OF THE WORK. DUST CONTROL MEASURES SHALL BE FULLY AND ADEQUATELY CARRIED OUT ON WEEKDAYS, WEEKENDS AND HOLIDAYS, AND WHEN NECESSARY, BEFORE OR AFTER NORMAL WORKING HOURS.
- PRIOR TO THE LAYING OF THE SUB BASE OR BASE ON THE ROADWAY, THE CITY'S ENGINEER SHALL CERTIFY THAT THE SUB GRADE ELEVATIONS ARE IN CONFORMANCE WITH THE APPROVED PLANS.
- ALL SEWER, STORM DRAIN AND UTILITY MANHOLES AFFECTED BY THIS PROJECT SHALL BE ADJUSTED TO GRADE AS NECESSARY BY THE CONTRACTOR AND INCLUDED IN THIS WORK. ALL WATER MAIN VALVES (CAP AND LID) SHALL BE ADJUSTED TO GRADE AS NECESSARY BY THE CONTRACTOR AND INCLUDED IN THIS WORK.
- THE COSTS OF ALL REPEAT TESTING REQUIRED FOR ACCEPTANCE OF WORK SHALL BE FULLY BORNE BY THE CONTRACTOR.
- PERMANENT TRENCH RESURFACING TO BE PER CITY STANDARD, OR AS DETAILED.
- TEMPORARY TRENCH RESURFACING TO BE A MINIMUM 4" THICK COLD MIX.
- TRENCH CUTS IN EXISTING STREETS THAT ARE NOT TO BE RECONSTRUCTED OR OVERLAID SHALL HAVE PERMANENT TRENCH RESURFACING INSTALLED WITHIN SEVEN (7) DAYS AFTER INITIAL STREET CUT.
- OVER EXCAVATE 1 FOOT BELOW BOTTOM OF FOUNDATIONS (NOT INCLUDING ANY PIER TYPE FOOTING) AND EXTEND OUT TO 5 FEET MAX BEYOND THE STRUCTURE, BUT NOT BEYOND ANY ADJACENT SITE WORK, AND NOT WITHIN 2 FEET OF ANY ADJACENT STRUCTURE.

PIPING SCHEDULE											
PROCESS ABBREVIATIONS	SERVICE	LOCATION	CLASSIFICATION	PIPE MATERIAL	THICKNESS/ PRESSURE CLASS	RESTRAINED JOINTS	JOINTS/ FITTINGS	TEST PRESSURE	TEST METHOD	LINING	COATING
SD	STORM DRAIN	BURIED	GRAVITY	PVCG	PER \$40 05 00	UNRESTRAINED	PO or MJ	3 PSI	PER \$40 05 20	-	-
PW	POTABLE WATER	BURIED	PRESSURE	DIP	PER \$40 05 00	RESTRAINED	PO or MJ	100 PSI	PER \$40 05 20	CM	BSC, PEE
		BURIED	PRESSURE	C900	PER \$40 05 00	RESTRAINED	PO or MJ	100 PSI	PER \$40 05 20	-	-

C900	AWWA C900 STANDARD	FLG	FLANGE	BSC	BITUMINOUS SEAL COATED PER AWWA C105	FBE	FUSION BONDED EPOXY 40 05 00
DIP	DUCTILE IRON PIPE	GE	GROOVED END	CM	CEMENT MORTAR PER AWWA C104	PEE	POLYETHYLENE ENCASEMENT 40 05 00 PER AWWA
PVCG	POLYVINYL CHLORIDE GRAVITY	MJ	MECHANICAL JOINT	EP	EPOXY POLYURETHANE 40 05 00 SYSTEM 2		
WSP	WELDED STEEL PIPE	PO	PUSH ON JOINT				

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ISSUED FOR BIDDING PURPOSES
 DECEMBER 2024



WELL 29 CHLORINATION
 CITY OF TURLOCK
 CITY PROJECT NO. 23-046
 GENERAL
 GENERAL NOTES

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 91160

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 CHECKED BY: KMM

DATE: DECEMBER 2024
 JOB NO: 229223003

PROJECT NO:
 PHASE: CD

ORIGINAL SCALE SHOWN IS ONE INCH ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET **G-3**
 3 OF 35

LOADING CRITERIA

RISK CATEGORY OF BUILDING:	III
1. WIND LOAD: ULTIMATE DESIGN WIND SPEED EXPOSURE	100 MPH C
2. SEISMIC LOAD: SPECTRAL RESPONSE ACCELERATION S_s	0.665g
SPECTRAL RESPONSE ACCELERATION S_1	0.264g
SPECTRAL RESPONSE COEFFICIENTS S_{D1}	0.562g
SPECTRAL RESPONSE COEFFICIENT S_{D2}	0.365g
SEISMIC IMPORTANCE FACTOR I_s	1.25
SITE CLASS	D (DEFAULT)
SEISMIC DESIGN CATEGORY	D

SPECIAL INSPECTION NOTES

- THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE 48 HOURS BEFORE PLACEMENT OF REINFORCING STEEL AND CONCRETE SO THAT THE SUBGRADE OR EXCAVATIONS MAY BE INSPECTED BY THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL VERIFY BACKFILL MATERIAL, BACKFILLING PROCEDURES AND SOIL COMPACTION TESTS.
- STRUCTURAL OBSERVATION SHALL BE PROVIDED BY THE DESIGN ENGINEER(S) OF RECORD OR THEIR AUTHORIZED REPRESENTATIVES IN ACCORDANCE WITH CBC 2023, SECTION 1704. STRUCTURAL OBSERVATION SHALL CONSIST OF SITE VISITS AT INTERVALS APPROPRIATE TO THE STAGE OF CONSTRUCTION TO OBSERVE CONSTRUCTION IN PROGRESS AND REVIEW OF TESTING AND INSPECTION REPORTS FOR GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS RELATING TO THE STRUCTURAL WORK AND THE NONSTRUCTURAL COMPONENTS AND EQUIPMENT ANCHORAGE.
- SPECIAL INSPECTION IN ACCORDANCE WITH CBC 2023 SECTIONS 1704 & 1705, SHALL BE REQUIRED AS INDICATED IN THE SPECIAL INSPECTION AND TESTING SCHEDULE ON THIS SHEET.
- ALL SPECIAL INSPECTIONS REQUIRED MUST BE BY APPROVED INDEPENDENT INSPECTORS WHO SHALL BE **RETAINED BY THE OWNER**. INSPECTORS SHALL SUBMIT THEIR REPORTS DIRECTLY TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THESE INSPECTORS ARE IN ADDITION TO ANY REQUIRED OWNER INSPECTIONS. CONTRACTOR SHALL COORDINATE INSPECTIONS AND ALLOW ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM REQUIRED INSPECTIONS.
- SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC 360.
- MASONRY SHALL REQUIRE LEVEL B FREQUENCY INSPECTIONS.

REQUIRED VERIFICATION AND INSPECTION OF SOILS (CBC TABLE 1705.6)				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		CBC 1705.6 CBC 1804
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		

CONCRETE NOTES

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONSISTING OF TYPE II/IV PORTLAND CEMENT, FINE AGGREGATE, COARSE AGGREGATE, AND WATER (WATER-CEMENT RATIO SHALL NOT EXCEED 0.45 ABSOLUTE BY WEIGHT, AND SLUMP SHALL NOT EXCEED 4 INCHES ± 1 INCH). THE CONCRETE SHALL BE PLACED WITHIN ONE AND ONE-HALF HOURS FROM THE TIME WATER IS INTRODUCED. TO YIELD AT 28 DAYS A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS:

PAVING, SLABS, AND SIDEWALKS 3,000 PSI
STRUCTURAL FOOTINGS 4,000 PSI
ALL OTHER STRUCTURAL CONCRETE 4,000 PSI
- CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318 (LATEST EDITION).
- CONCRETE MIXING SHALL COMPLY WITH ASTM C94.
- SUBMIT CONCRETE LIFT DRAWINGS SHOWING THE LOCATION OF CONSTRUCTION JOINTS AND OTHER TYPES OF JOINTS OTHER THAN SPECIFIED OR SHOWN ON THE DRAWINGS FOR FAVORABLE REVIEW BY THE ENGINEER BEFORE START OF WORK ON FORMS, REINFORCING STEEL OR PLACING CONCRETE. ANY ADDITIONAL VERTICAL OR HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE A STANDARD KEYWAY AND SHALL BE REVIEWED BY THE ENGINEER. REFER TO SPECIFICATIONS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO 1/4" AMPLITUDE.
- OPENINGS, PIPE SLEEVES, CONDUITS, INSERTS, AND OTHER EMBEDDED ITEMS SHALL BE IN PLACE BEFORE CONCRETE IS PLACED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, LANDSCAPING, HVAC, PLUMBING, INSTRUMENTATION, AND OTHER PLANS FOR ITEMS REQUIRING SLEEVES AND EMBEDMENTS IN CONCRETE WHICH ARE NOT INDICATED OR SHOWN ON STRUCTURAL DRAWINGS. NO PIPES OR SLEEVES SHALL PASS THROUGH STRUCTURAL MEMBERS UNLESS SHOWN ON STRUCTURAL DRAWINGS. COORDINATE WITH EQUIPMENT MANUFACTURER'S DRAWINGS FOR ANCHORING DEVICES.
- CONCRETE SHALL BE PREVENTED FROM PREMATURE DRYING FOR A CURING PERIOD OF AT LEAST SEVEN DAYS AFTER IT IS PLACED. EXPOSED SURFACES SHALL BE KEPT CONTINUOUSLY MOIST FOR THE ENTIRE PERIOD. IN LIEU OF WATER CURING, THE CONCRETE SHALL BE PROTECTED BY SPRAYING WITH AN APPROVED CURING COMPOUND. ALL SURFACES SHALL BE KEPT MOIST UNTIL THE COMPOUND IS APPLIED.
- CONTROL JOINTS SHALL BE PLACED NO GREATER THAN 20 FEET APART IN BOTH DIRECTIONS WITHIN 8 HOURS OF THE CONCRETE PLACEMENT ON ALL CONCRETE SLABS. PROVIDE CONTROL JOINTS IN UNREINFORCED SLABS PER PCA GUIDELINES. NO CONTROL JOINTS REQUIRED IN VESSEL PADS.
- ALL EXTERIOR SLABS SHALL BE SLOPED TO ALLOW DRAINAGE OF RUNOFF WATER TO PREVENT PONDING.
- UNLESS NOTED OTHERWISE, ALL EXPOSED EDGES AND CORNERS SHALL BE CHAMFERED 3/4 INCH. INTERIOR FLOORS AND EXTERIOR SIDEWALKS SHALL HAVE TOOLED 3/8 INCH RADIUS CONSTRUCTION JOINTS.

SOIL AND FOUNDATION NOTES

- ALL CONCRETE FOOTINGS AND SLABS SHALL BEAR UPON AND/OR PENETRATE INTO PROPERLY COMPACTED FILL WHICH SHALL HAVE A MINIMUM IN-PLACE DENSITY OF 90% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AT THE PROJECT SITE. IN CASE OF EXPANSIVE CLAY SOIL CONDITIONS, THE OWNER MUST CONSULT WITH A GEOTECHNICAL ENGINEER AND THE FOUNDATION PLAN MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.
- FOUNDATION WORK TO BE DONE PER 2023 CBC, CHAPTER 18.
- ENGINEERING DESIGN OF FOUNDATION IS AS FOLLOWS:
a) ASSUMED ALLOWABLE SOIL BEARING CAPACITY
CONTINUOUS FOOTING 1500 PSF INCLUDING WIND OR SEISMIC 1500 PSF

SHOULD THE ACTUAL SOIL CONDITIONS NOT BE EQUAL TO OR BETTER THAN THE MINIMUM REQUIREMENTS SHOWN ABOVE, NOTIFY THE ENGINEER OF RECORD IMMEDIATELY.
- SOIL SHALL BE EXCAVATED TO THE ELEVATIONS INDICATED ON THE DRAWINGS FOR STRUCTURE FOUNDATIONS.
- ALL FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROVED PRIOR TO PLACEMENT OF CONCRETE.
- CONCRETE SLABS-ON-GRADE IN THE MAINTENANCE AND CHEMICAL STORAGE BUILDINGS SHALL HAVE A 6" THICK AGGREGATE BASE LAYER ON TOP OF THE PREPARED SUBGRADE. SEE THE FOUNDATION PLANS AND DETAILS FOR THE SAND AND VAPOR BARRIER LAYERS OVER THE SUBBASE.

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (CBC TABLE 1705.3)				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT		X		ACI 318, 5.5, 7.1-7.7 CBC 1910.4
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED		X		ACI 318, 8.1.3, 21.2.8 CBC 1908.5, 1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX		X		ACI 318, CH.4, 3.2-5.4 CBC 1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172 ASTM C81 ACI 318, 5.6, 5.8 CBC 1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X			ACI 318, 5.9, 5.10 CBC 1705.3.4, 1705.5.5, 1705.5.6, 1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318, 5.11-5.13 CBC 1910.9
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318, 6.11
13. MATERIAL VERIFICATION OF REINFORCEMENT STEEL			MANUFACTURER SHALL PROVIDE MILL TEST REPORTS-SEE CBC FOR EXCEPTIONS	CBC 1705.12.1

STEEL NOTES

- ALL EXPOSED STEEL SHALL BE HOT DIP GALVANIZED.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS SPECIFIED OTHERWISE:
a. STRUCTURAL SHAPES M, S, HP, C, MC, L, AS PER AISC MANUAL 15th EDITION, TO COMPLY WITH ASTM A36 (Fy=36 ksi) UNLESS NOTED OTHERWISE.
b. STRUCTURAL SHAPES W, AISC MANUAL 15th EDITION, TO COMPLY WITH ASTM A992 (Fy=50 ksi) UNLESS NOTED OTHERWISE.
c. STRUCTURAL STEEL TUBING, AS PER AISC MANUAL 15th EDITION, TO COMPLY WITH ASTM A500 GRADE B (Fy=46 ksi) UNLESS NOTED OTHERWISE.
d. STRUCTURAL STEEL PIPE, AS PER AISC MANUAL 15th EDITION, TO COMPLY WITH ASTM A53 GRADE B (Fy=35 ksi) UNLESS NOTED OTHERWISE.
- ANY MATERIAL REQUEST WITH DIFFERENT SPECIFICATIONS THAN NOTED ABOVE ARE TO BE DIRECTED TO THE DESIGNER, IN A TIMELY MANNER, PRIOR TO CONSTRUCTION AND/OR INSTALLATION. ANY ITEM OF A DIFFERENT SPECIFICATION INSTALLED, WITHOUT SPECIFIC PRIOR WRITTEN APPROVAL MAY NOT MEET THE PROJECT ENGINEERING REQUIREMENTS NECESSITATING A REMOVAL AND/OR SIGNIFICANT REVISION TO ITEMS INSTALLED.
- STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL AND THE LATEST EDITION OF STRUCTURAL STEEL DETAILING BY THE AISC.
- A STEEL BUILDING IS STRUCTURALLY STABLE WHEN ALL ASPECTS OF THE DESIGN SHOWN ON THESE DRAWINGS ARE COMPLETED. THE CONTRACTOR SHALL DETERMINE WHEN AND WHERE TEMPORARY BRACING IS NEEDED.
- WELDS SHALL BE MADE WITH WIRE OR ELECTRODE HAVING A MINIMUM TENSILE STRENGTH OF 70,000 PSI, UNLESS NOTED OTHERWISE.

CONCRETE MASONRY

- FURNISH AND INSTALL MASONRY MATERIALS IN CONFORMANCE WITH TMS 602, SPECIFICATION FOR MASONRY STRUCTURES.
- CMU: ASTM C90 LIGHTWEIGHT.
- MORTAR: ASTM C270, TYPE S BY PROPORTION
- COARSE GROUT: ASTM C476, MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI OR MASONRY DESIGN STRENGTH, FM, WHICHEVER IS GREATER.
- IF PLACEMENT OF GROUT IS STOPPED FOR ONE HOUR OR LONGER, PROVIDE HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUP A MINIMUM OF 1 1/2 INCHES BELOW THE TOP OF THE BLOCK.
- HORIZONTAL CONTRACTION JOINTS: AS INDICATED ON DRAWINGS WITH MAXIMUM SPACING OF 25 FT OR 1.5 TIMES MASONRY PANEL HEIGHT.
- SUBMIT WRITTEN PROCEDURES FOR GROUTING PRIOR TO THE START OF CONSTRUCTION.

REQUIRED VERIFICATION AND INSPECTION OF ANCHORS				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS		X		ACI 318, 3.8.6, 8.1.5, 21.2.8 CBC 1909.1

REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION (LEVEL B)			
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS
MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X	
PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X	
SIZE AND LOCATION OF STRUCTURAL MEMBERS		X	
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	
WELDING OF REINFORCEMENT	X		

CONCRETE REINFORCEMENT COVER	
SIZE	COVER (IN)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	
ALL SIZES	3
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 - #18 BAR	2
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
#14 & #18 BARS	1 1/2
#11 BAR & SMALLER	3/4

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ISSUED FOR BIDDING PURPOSES
DECEMBER 2024

PROFESSIONAL ENGINEER
 No. 91160
 CIVIL
 STATE OF CALIFORNIA

DATE SIGNED: 12/13/2024
 NO. BY DATE
 REVISION

WELL 29 CHLORINATION
 CITY OF TURLOCK
 CITY PROJECT NO. 23-046
 GENERAL
GENERAL NOTES

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DESIGN ENGINEER:
 A/JG
 LICENSE NO:
 91160

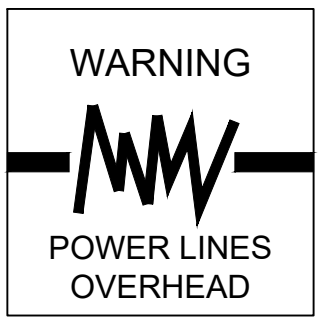
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DATE: DECEMBER 2024
 JOB NO: 229223003

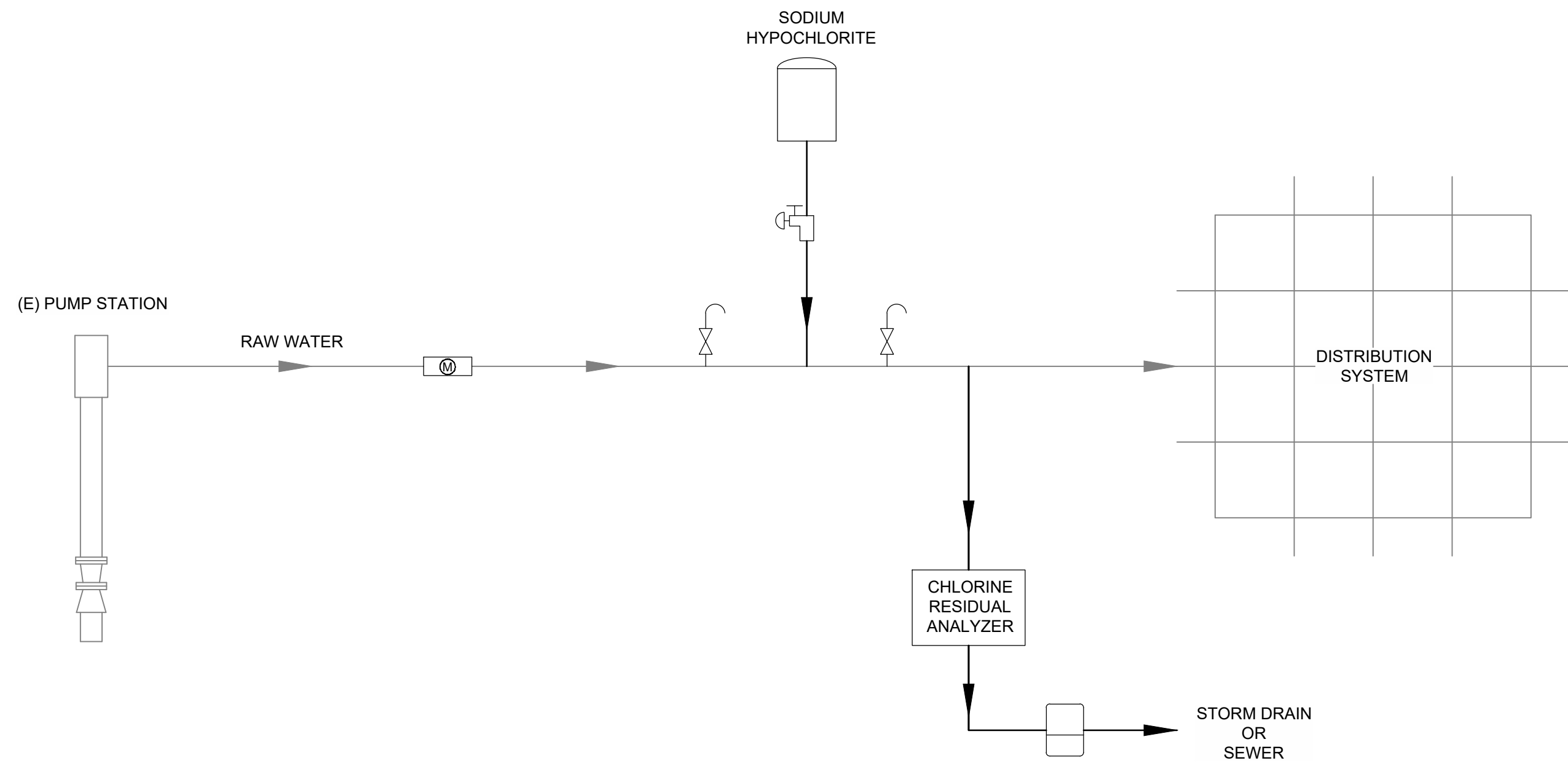
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ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

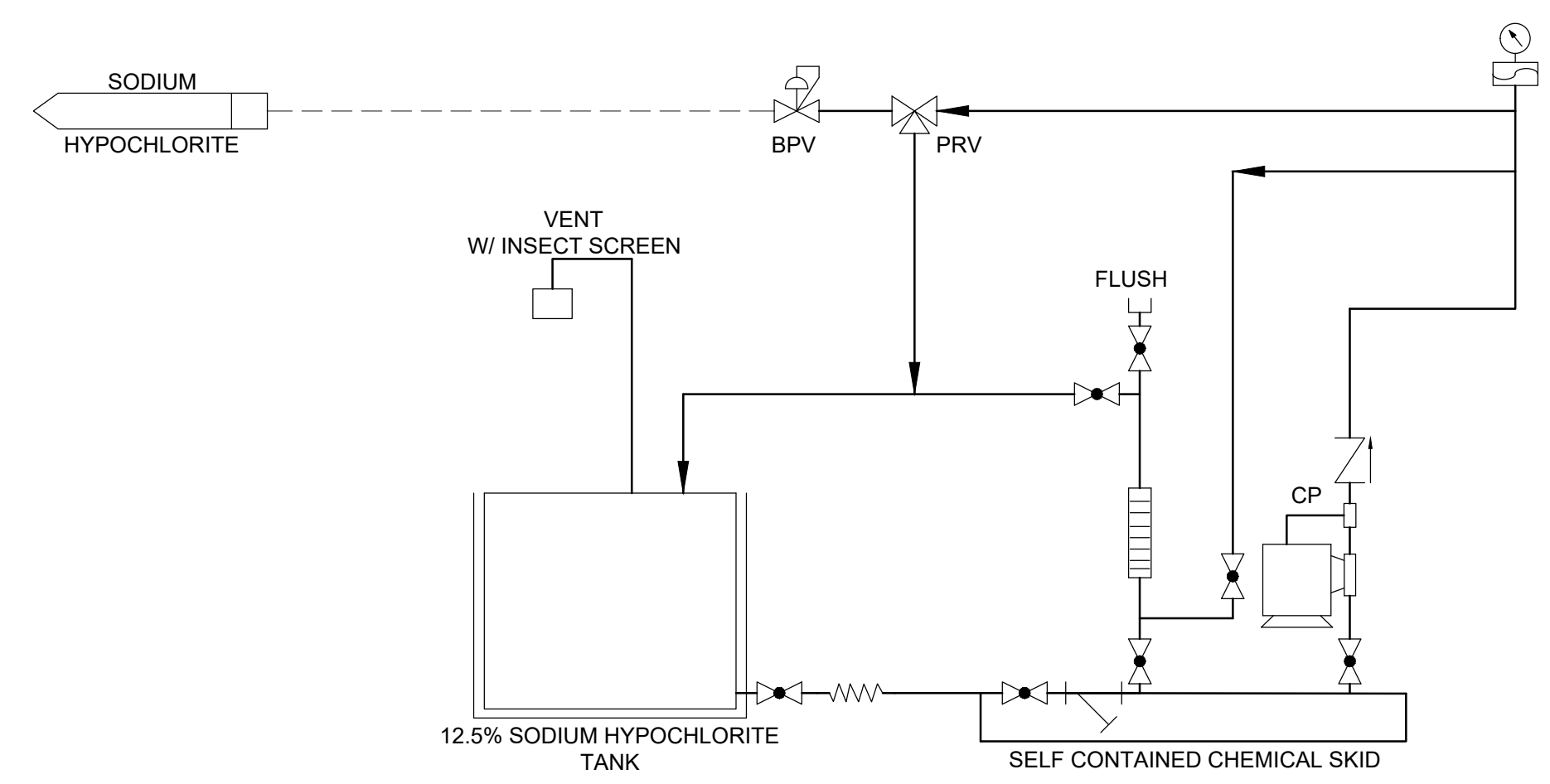
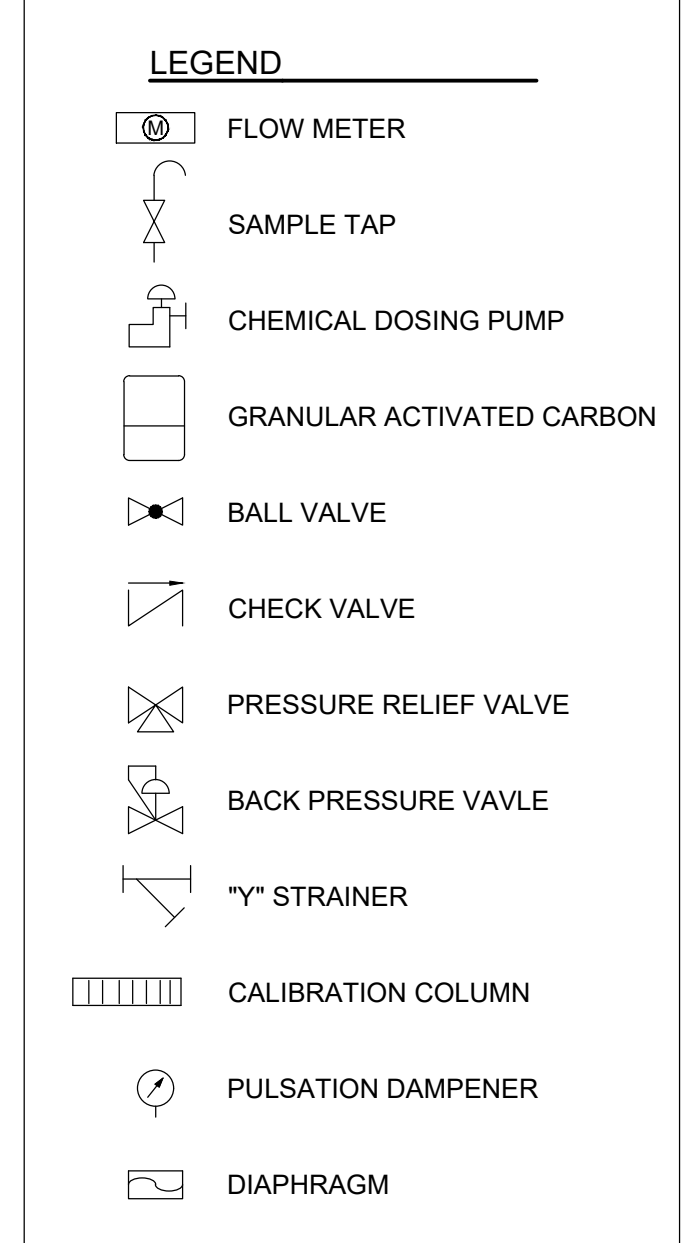
SHEET **G-4**
 4 OF 35



DISINFECTANT DESIGN CRITERIA	
DESCRIPTION	WELL 29
WELL PUMP	
CAPACITY, GPM	1100
DRIVE TYPE	SS
DISCHARGE PRESSURE, PSI	60
SODIUM HYPOCHLORITE	
CHEMICAL CONCENTRATION	12.50%
MAXIMUM DOSE, MG/L	1.00
CHEMICAL STORAGE VOLUME, GAL	250
CHEMICAL PUMPS	
QUANTITY	1
PUMP TYPE	DDA
MAXIMUM CAPACITY, GPH	0.55



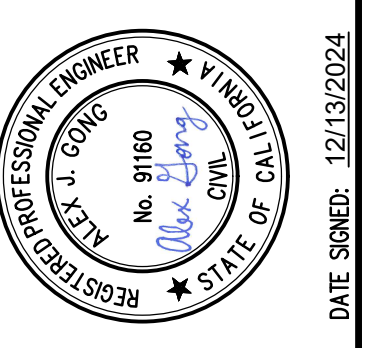
PROCESS FLOW DIAGRAM



CHEMICAL INJECTION PROCESS FLOW DIAGRAM

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DECEMBER 2024



WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
GENERAL
DESIGN CRITERIA

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A/JG
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91160

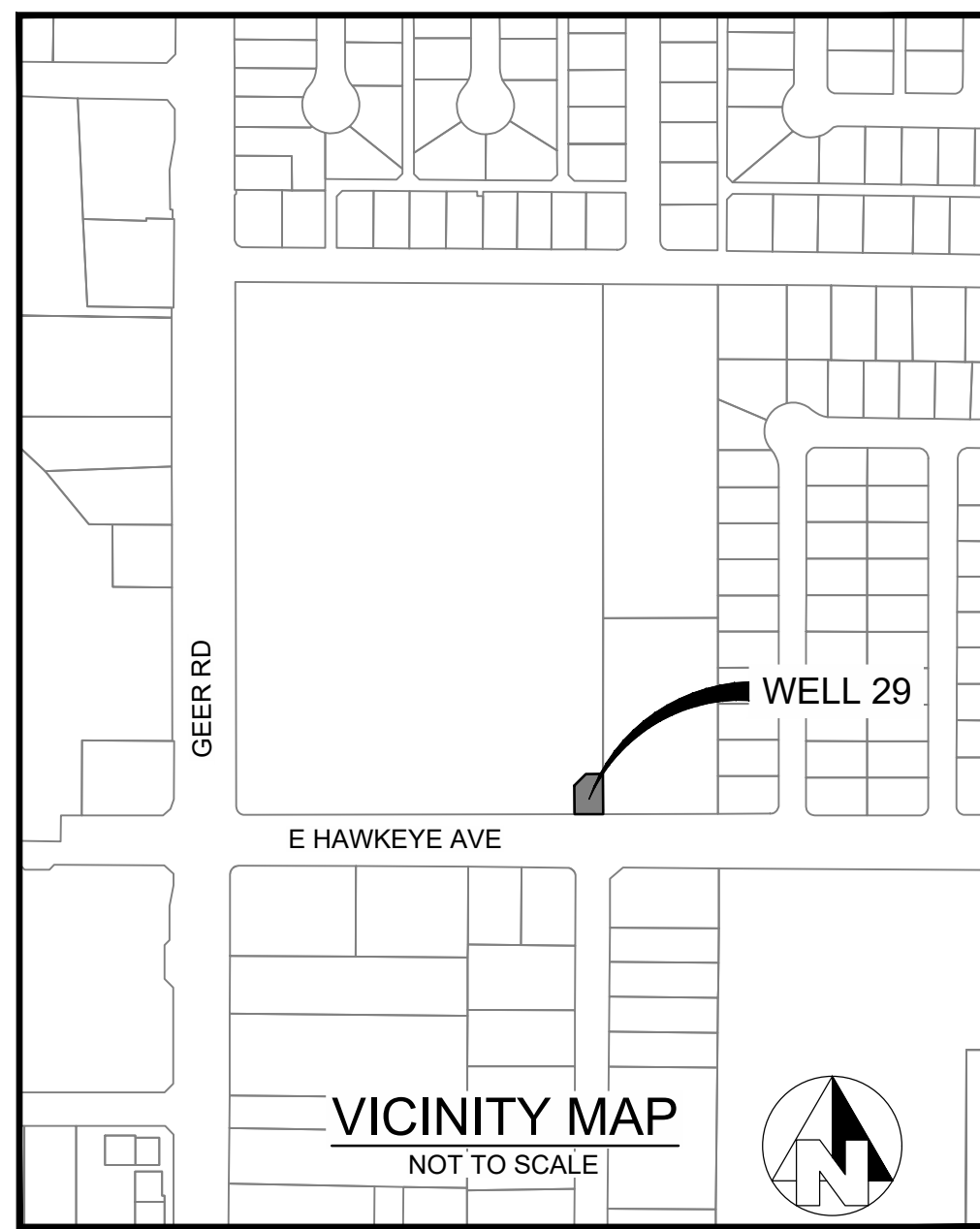
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PROJECT NO:
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0 1"
INCH ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET **G-5**
5 OF 35



STREET ADDRESS

141 E HAWKEYE AVE
TURLOCK, CA 95380

NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS AND UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL REPLACE IN-KIND ALL EXISTING SURFACING OR LANDSCAPING DAMAGED DURING CONSTRUCTION.
- SAWCUT AND REMOVE EXISTING PAVEMENT IN CLEAN STRAIGHT LINES. REMOVE EXISTING SIDEWALK TO THE JOINT OR SCORE LINE NEAREST THE LOCATION DEPICTED AND ADJUST LIMITS OF NEW SIDEWALK AS NECESSARY TO JOIN EXISTING SIDEWALK TO SIDEWALK AROUND NEW DRIVE APPROACH.
- SAWCUT AND REMOVE EXISTING ASPHALT IN CLEAN STRAIGHT LINES. SAWCUT 2' BEYOND EXTENTS OF NEW CONSTRUCTION, MIN.

EXISTING SITE LEGEND

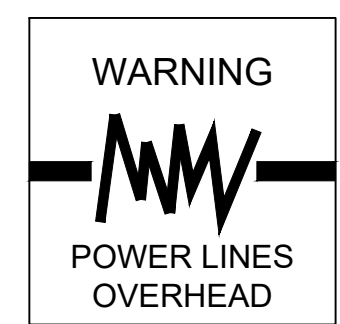
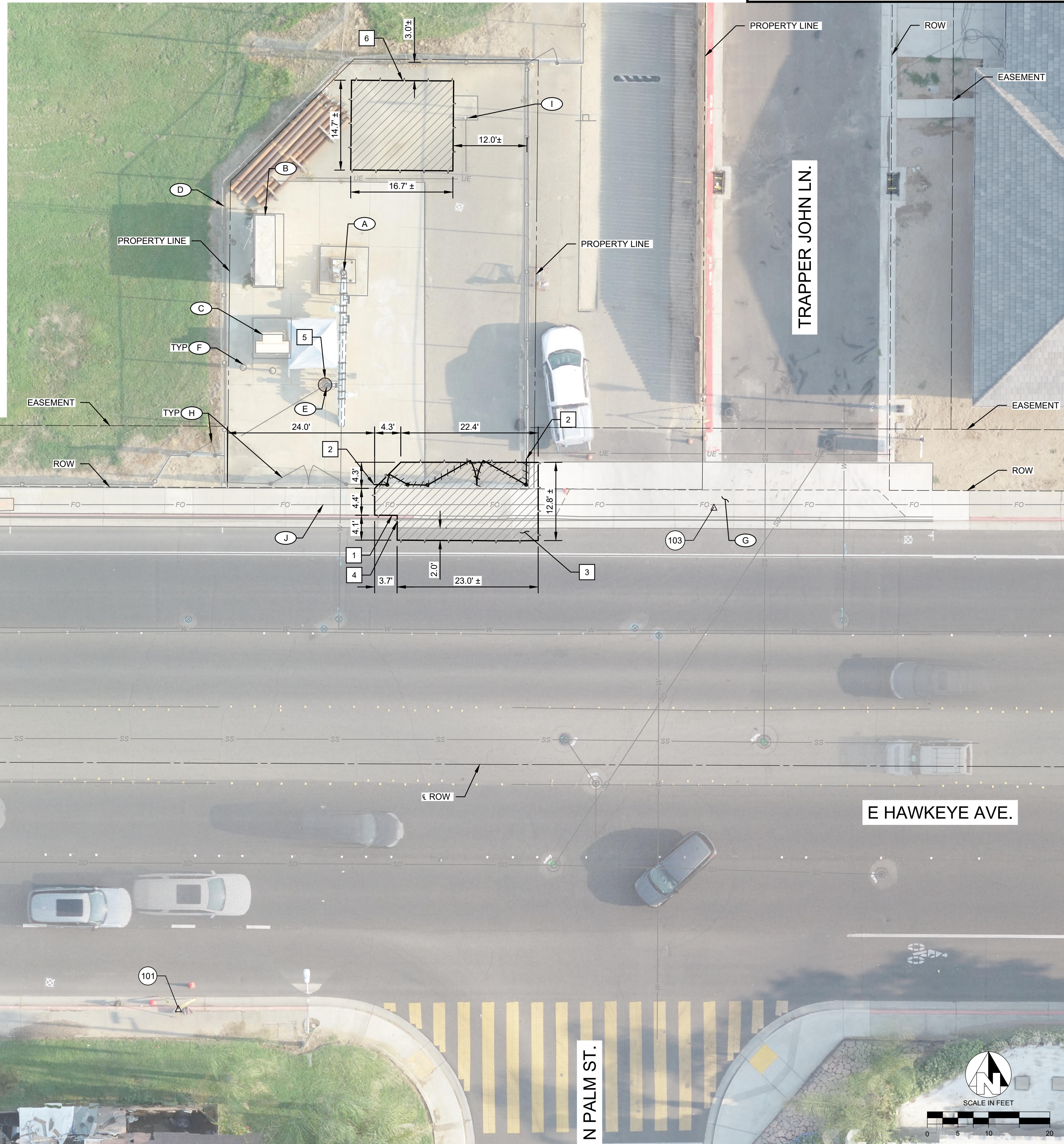
- (A) (E) WELL 29
- (B) (E) ELECTRIC CABINET
- (C) (E) TRANSFORMER
- (D) (E) CHAIN LINK FENCE
- (E) (E) STORM DRAIN MANHOLE
- (F) (E) BOLLARD
- (G) (E) DRIVE APPROACH
- (H) (E) GATE
- (I) (E) ELECTRIC STUB-UP
- (J) (E) FIBER OPTIC, PROTECT IN PLACE

LEGEND

- DENOTES APPROXIMATE AREA TO BE DEMOLISHED AND DISPOSED OF OR SALVAGED
- APPROXIMATE SAWCUT LINE
- DENOTES UTILITY OR FENCE TO BE DEMOLISHED AND DISPOSED OF OR SALVAGED

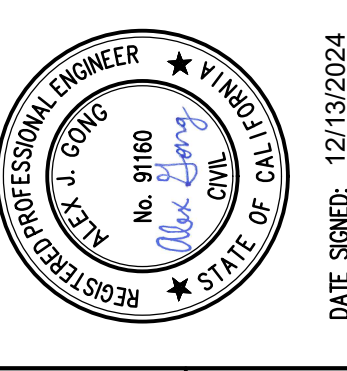
DEMOLITION CALLOUTS

- 1 SAWCUT AROUND PERIMETER OF NEW DRIVE APPROACH. REMOVE AND DISPOSE OF (E) SIDEWALK & (E) DRIVE APPROACH (SEE NOTE 3)
- 2 REMOVE AND DISPOSE OF (E) CHAINLINK FENCE AND GATE. LOCATED BETWEEN CALLOUTS AND WHERE REPLACED WITH METAL FENCE
- 3 SAWCUT, REMOVE AND DISPOSE OF (E) AC PAVEMENT (SEE NOTE 3)
- 4 SAWCUT, REMOVE AND DISPOSE OF (E) CURB AND GUTTER (SEE NOTE 3)
- 5 CORE AND DISPOSE OF (E) MANHOLE AS NECESSARY FOR INSTALLING DRAIN LINE
- 6 SAWCUT, REMOVE AND DISPOSE OF (E) AC AT CHEMICAL ENCLOSURE (SEE NOTE 4)



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DECEMBER 2024**



**WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
CIVIL**

PROVOST & PRITCHARD
425 W FIR AVENUE
TURLOCK, CA 95380
PHONE (559) 449-2700
FAX (559) 449-2715
www.provostandpritchard.com

DESIGN ENGINEER: A/JG
LICENSE NO: 91160
DRAFTED BY: ENA
CHECKED BY: KMM
DATE: DECEMBER 2024
JOB NO: 229223003
PROJECT NO:
PHASE: CD
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.
SHEET **C-1**
6 OF 35

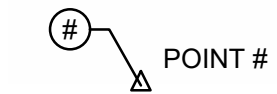
TOPOGRAPHY NOTE
TOPOGRAPHY SHOWN WAS COLLECTED BY PROVOST & PRITCHARD CONSULTING GROUP DURING A FIELD SURVEY CONDUCTED IN AUGUST OF 2023.

BOUNDARY NOTE
THE BOUNDARY/EASEMENT INFORMATION SHOWN ON THESE PLANS IS BASED UPON RECORD INFORMATION TIED TO PHYSICAL MONUMENTS, AND WAS PREPARED UNDER THE DIRECTION OF BRYAN W. BOWERS, PLS 8469.

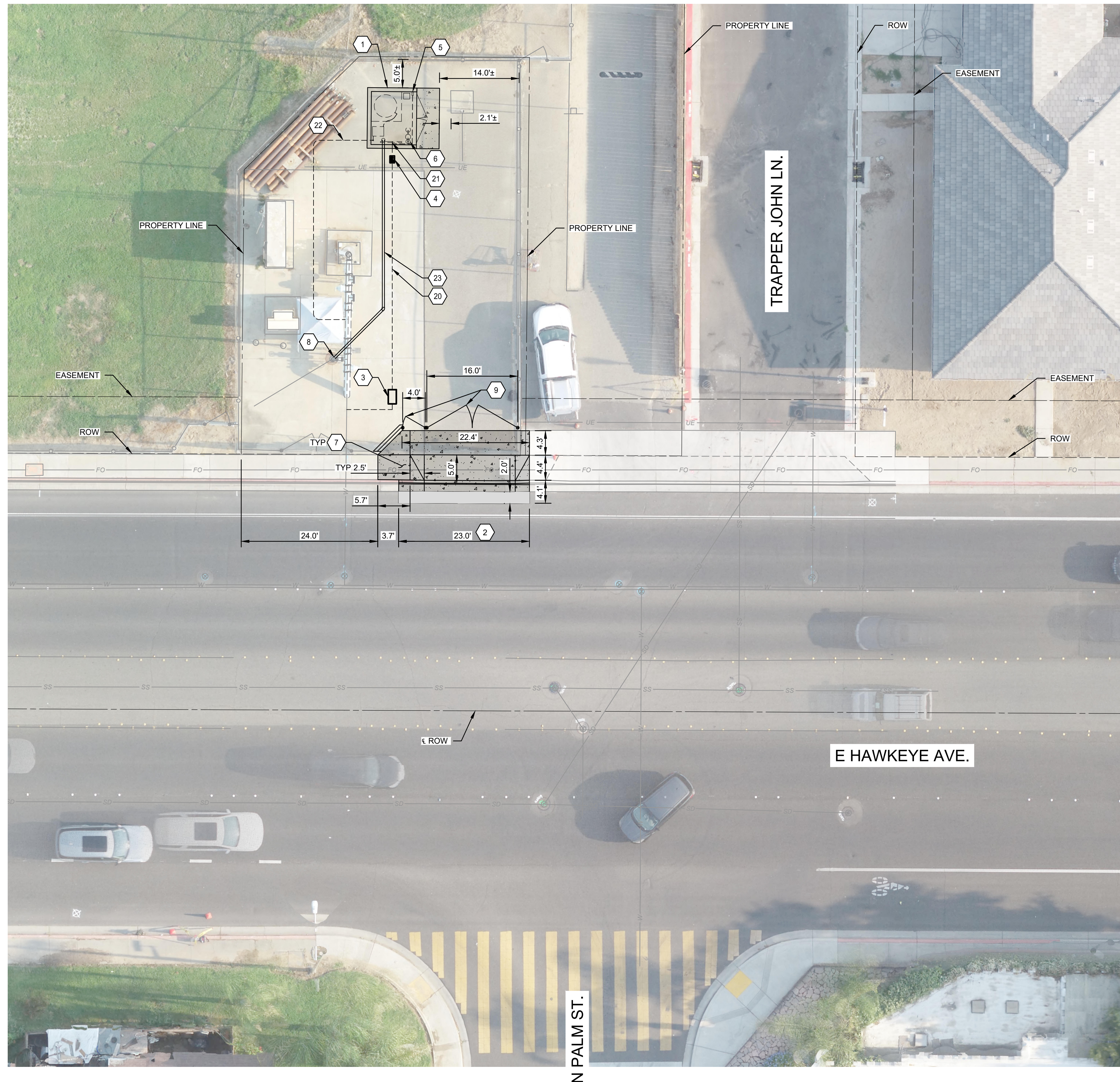
PRIMARY BENCHMARK
CITY OF TURLOCK BENCHMARK 22-4-2
1" BRASS CAP MARKED 22-4-2, SW CORNER OF ORANGE AND HIGH STREET
RECORD ELEVATION=98.282'

CONTROL TABLE LOCAL GROUND COORDINATES (USFT)				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	2007325.41	6461078.04	104.53	SET MAG NAIL
102	2007406.48	6460932.98	104.29	SET MAG NAIL
103	2007407.26	6461165.41	103.71	SET MAG NAIL

HORIZONTAL CONTROL LEGEND



DATE SIGNED: 12/13/2024



STREET ADDRESS

141 E HAWKEYE AVE
TURLOCK, CA 95380

NOTES

1. SITE PIPING LINEWORK IS SCHEMATIC.
2. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS AND UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
3. DRAINAGE PIPING TO HAVE MINIMUM SLOPE OF 0.5%. ESTIMATED ELEVATION DROP = 0.21 FT
4. CONTRACTOR SHALL REPLACE IN-KIND ALL EXISTING SURFACING OR LANDSCAPING DAMAGED DURING CONSTRUCTION.
5. CONTRACTOR SHALL REPLACE EXISTING ASPHALT PER DETAIL 7 SHEET D-5

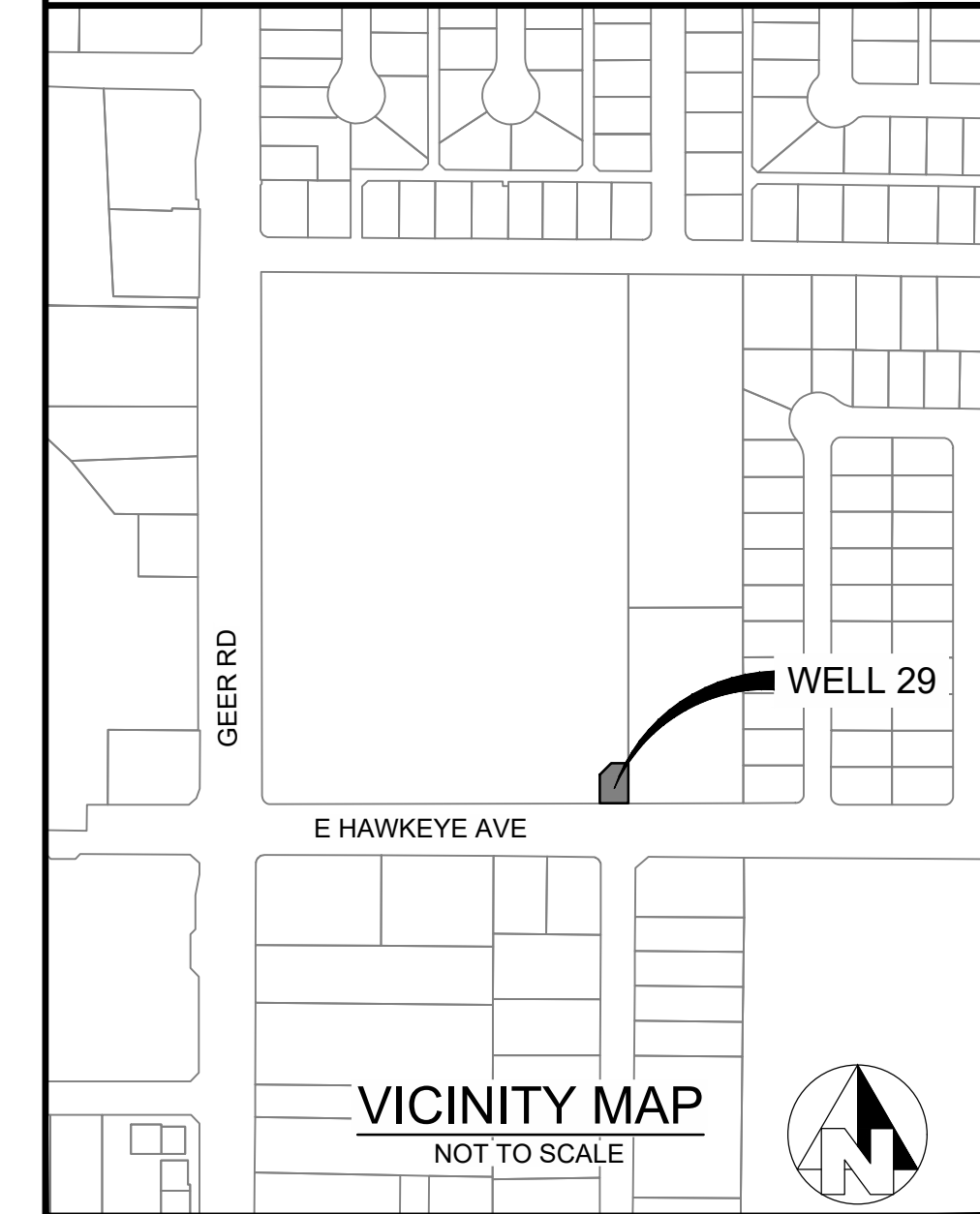
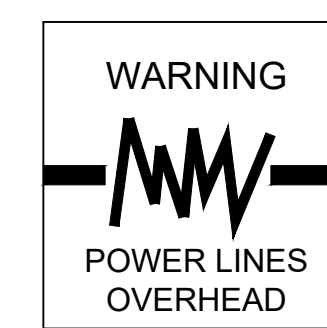
PIPING LEGEND			
No.	PIPE	MATERIAL	COMMENT
20	1"	HDPE	SITE UTILITY WATER
21	1"	HDPE	ANALYZER SAMPLE LINE
22	2"	PVC ELECTRICAL CONDUIT	SODIUM HYPOCHLORITE FEED WITH 1/2" OD TUBING (SEE DETAIL 1 SHEET D-2)
23	4"	SDR 35	ANALYZER DRAIN LINE (SEE NOTE 3)

CONSTRUCTION SITE LEGEND

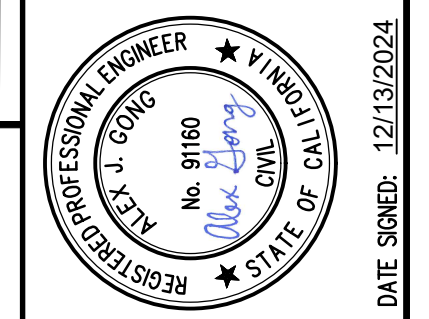
- 1 CHEMICAL STORAGE BUILDING PAD (SEE SHEET D-1)
- 2 ALLEY APPROACH (SEE CITY OF TURLOCK STANDARD DETAIL C-7 SHEET D-8)
- 3 1" WATER SERVICE ASSEMBLY (SEE CITY OF TURLOCK STANDARD DETAILS W-10 & W-11 SHEET D-9)
- 4 1" REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY (SEE CITY OF TURLOCK STANDARD DETAIL W-13 SHEET D-9)
- 5 HOSE BIBB & RACK (SEE DETAILS 2 & 3 SHEET D-3)
- 6 EMERGENCY EYEWASH STATION (SEE DETAIL 1 SHEET D-3)
- 7 SIDEWALK (SEE CITY OF TURLOCK STANDARD DETAIL C-3 SHEET D-8)
- 8 CONNECTION TO (E) MANHOLE (SEE DETAIL 5 SHEET D-2)
- 9 METAL FENCE AND GATE WITH MOWSTRIP (SEE CITY OF TURLOCK STANDARD DETAIL M-6 SHEET D-8)

LEGEND

- CONCRETE IMPROVEMENTS
- CONSTRUCT AC PAVEMENT (SEE DETAIL 7 SHEET D-5)



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DECEMBER 2024



WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
CIVIL
SITE PLAN

PROVOST & PRITCHARD
425 W FIR AVENUE
TURLOCK, CA 95380
PHONE (530) 449-2700
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www.provostandpritchard.com

DESIGN ENGINEER:
A/JG
LICENSE NO:
91160

DRAFTED BY: ENA
CHECKED BY: KMM

DATE: DECEMBER 2024

JOB NO: 229223003

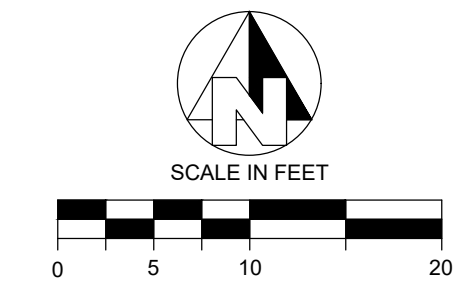
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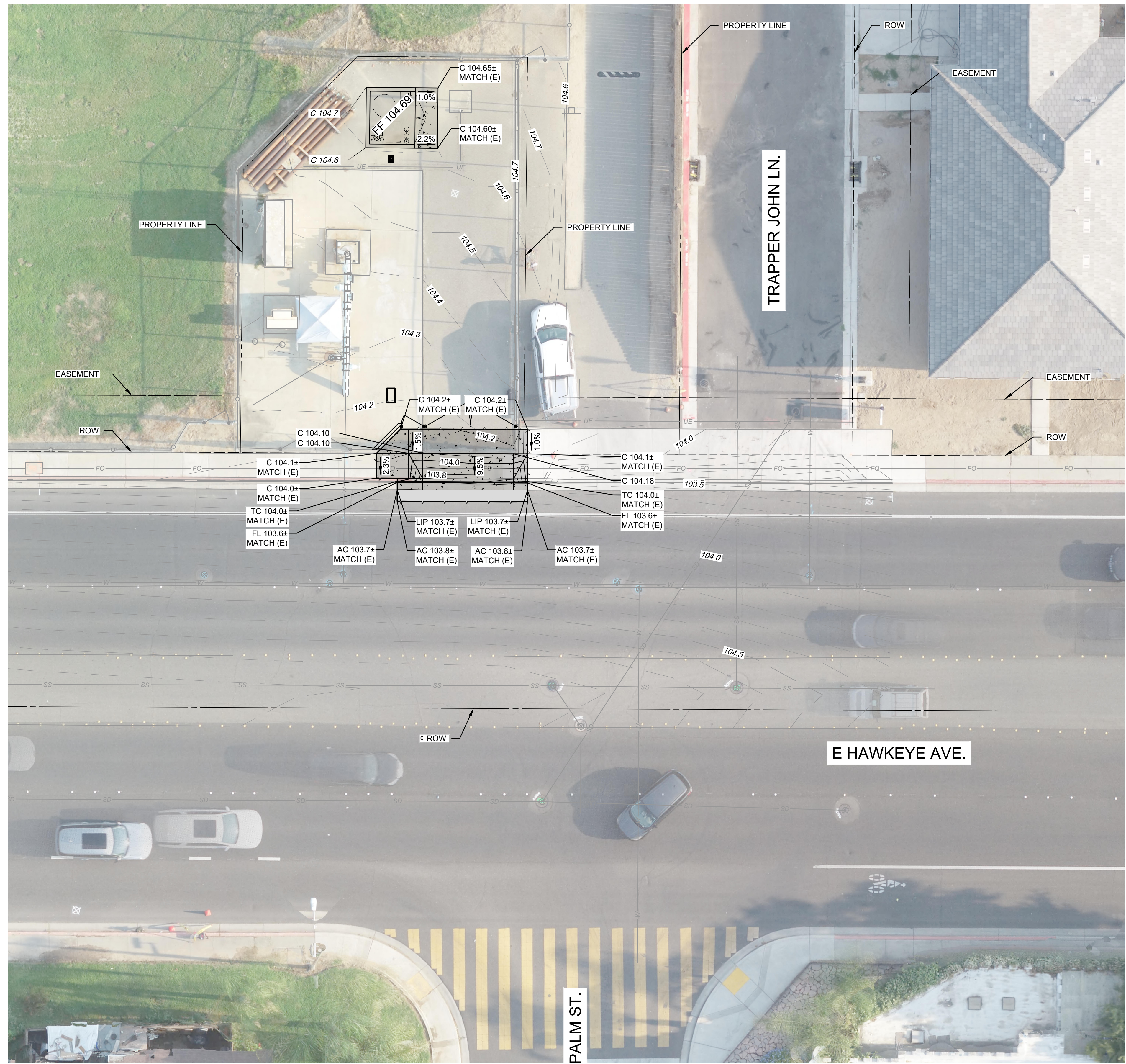
PHASE: CD

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SHEET **C-2**

7 OF 35





TRAPPER JOHN LN.

E HAWKEYE AVE.

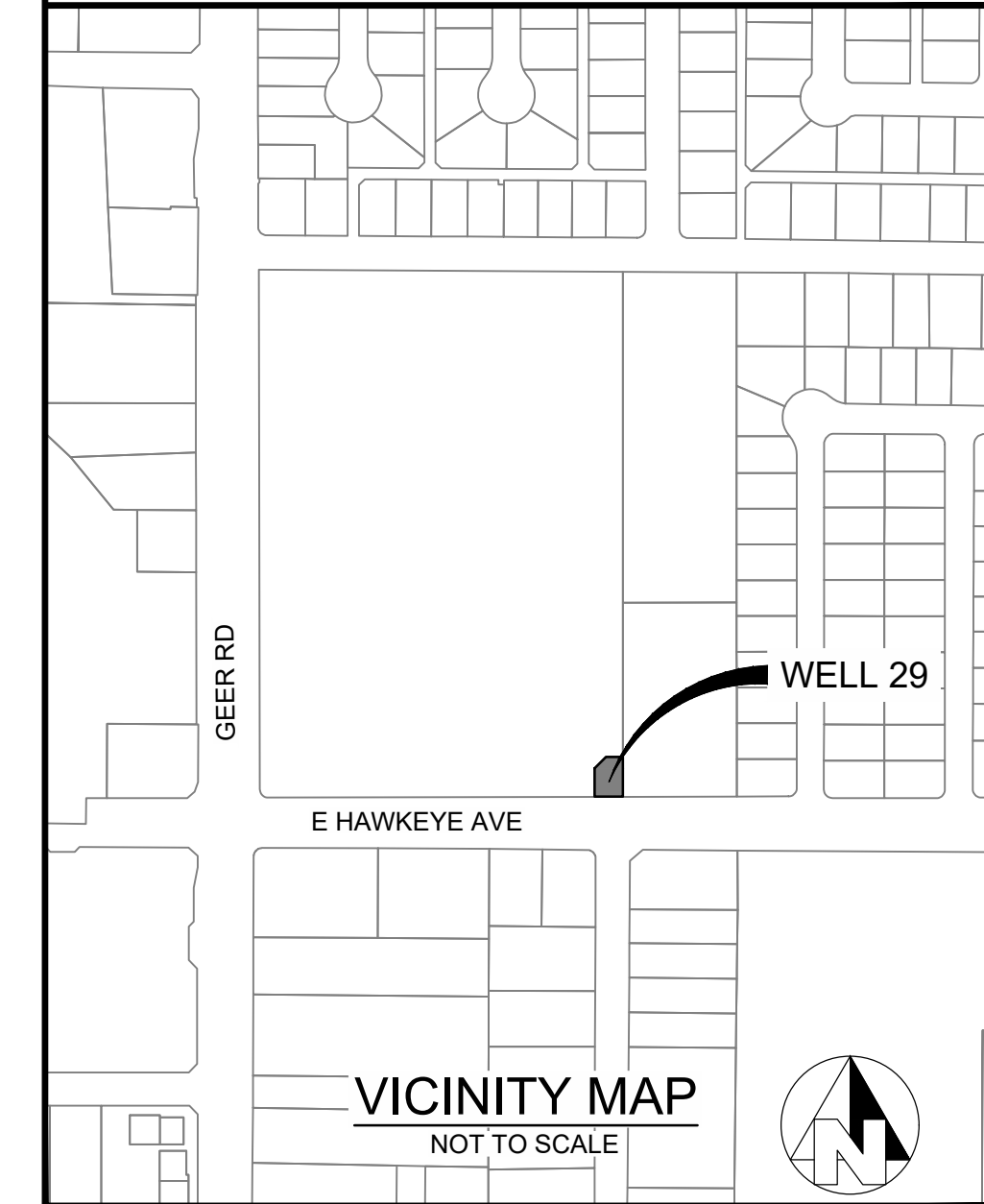
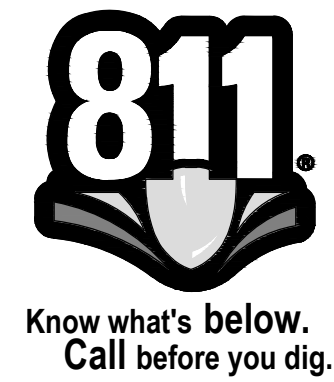
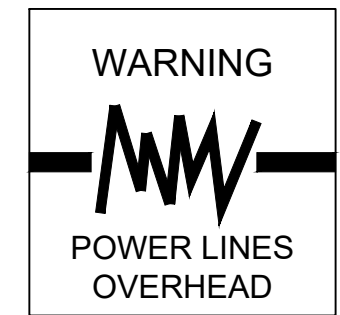
N PALM ST.

STREET ADDRESS

141 E HAWKEYE AVE
TURLOCK, CA 95380

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS AND UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL REPLACE IN-KIND ALL EXISTING SURFACING OR LANDSCAPING DAMAGED DURING CONSTRUCTION.
3. SAWCUT AND REMOVE EXISTING PAVEMENT IN CLEAN STRAIGHT LINES. REMOVE EXISTING SIDEWALK TO THE JOINT OR SCORE LINE NEAREST THE LOCATION DEPICTED AND ADJUST LIMITS OF NEW SIDEWALK AS NECESSARY TO JOIN EXISTING SIDEWALK TO SIDEWALK AROUND NEW DRIVE APPROACH.

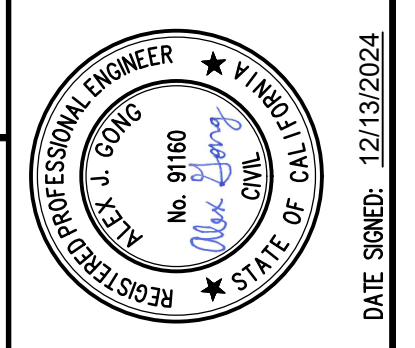


GRADING SITE LEGEND

- CONCRETE IMPROVEMENTS
- CONSTRUCT AC PAVEMENT (SEE DETAIL 7 SHEET D-5)
- AC ASPHALT CONCRETE
- C CONCRETE
- (E) EXISTING
- FL FLOW LINE
- LIP LIP OF GUTTER
- TC TOP OF CURB

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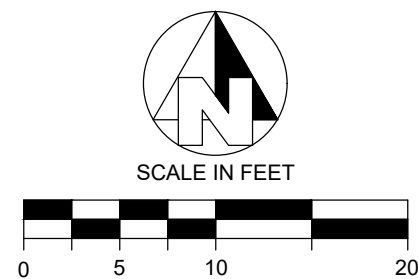
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DECEMBER 2024



WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
CIVIL
GRADING PLAN

PROVOST & PRITCHARD
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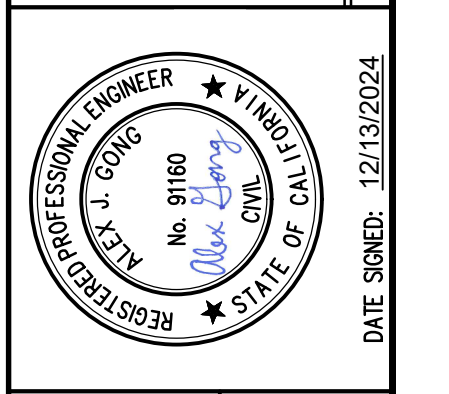
DESIGN ENGINEER:
A/JG
LICENSE NO:
91160
DRAFTED BY: ENA
CHECKED BY: KMM
DATE: DECEMBER 2024
JOB NO: 229223003
PROJECT NO:
PHASE: CD
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.
SHEET **C-3**



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NO.	REVISION	BY	DATE



WELL 29 CHLORINATION
 CITY OF TURLOCK
 CITY PROJECT NO. 23-046
 DETAILS

CHLORINATION ENCLOSURE DETAILS

PROVOST & PRITCHARD
 425 W. FIR AVENUE
 CHICO, CA 95926
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DESIGN ENGINEER:
 A/JG
 LICENSE NO:
 91160

DRAFTED BY:
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CHECKED BY:
 KMM

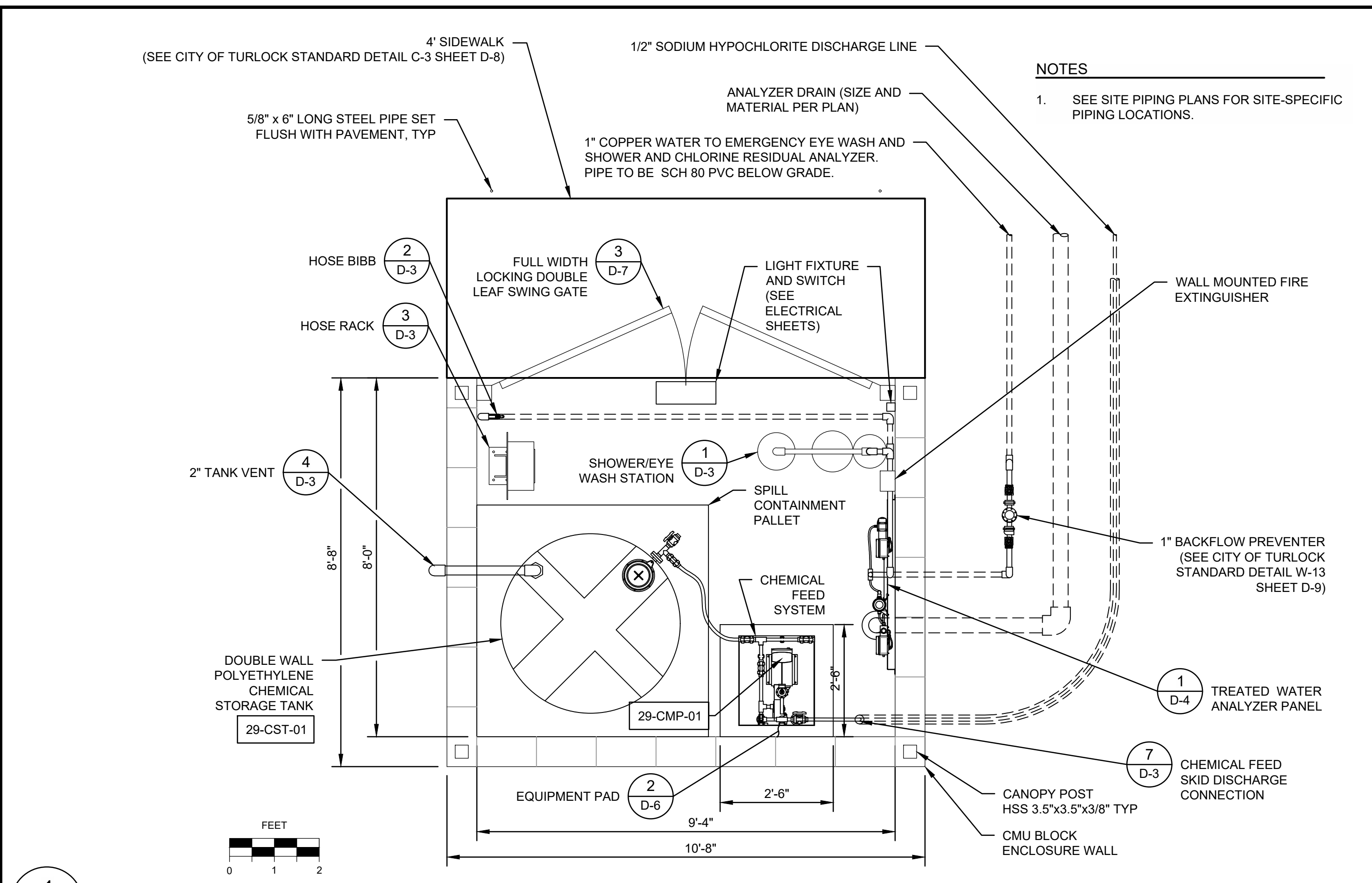
DATE: DECEMBER 2024
 JOB NO: 229223003

PROJECT NO:
 PHASE: CD

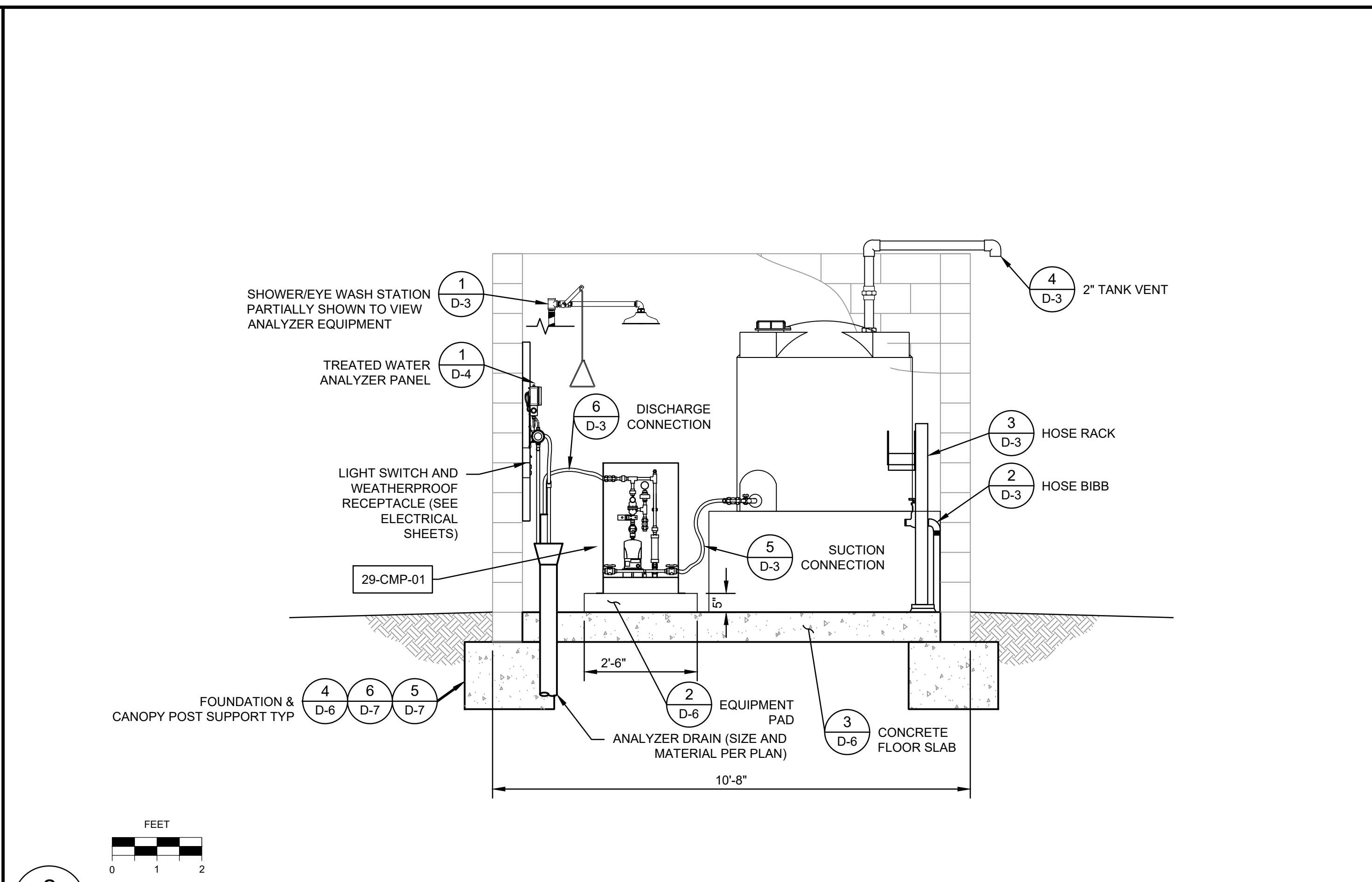
ORIGINAL SCALE SHOWN IS ONE
 INCH. ADJUST SCALE FOR
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SHEET **D-1**
 9 OF 35

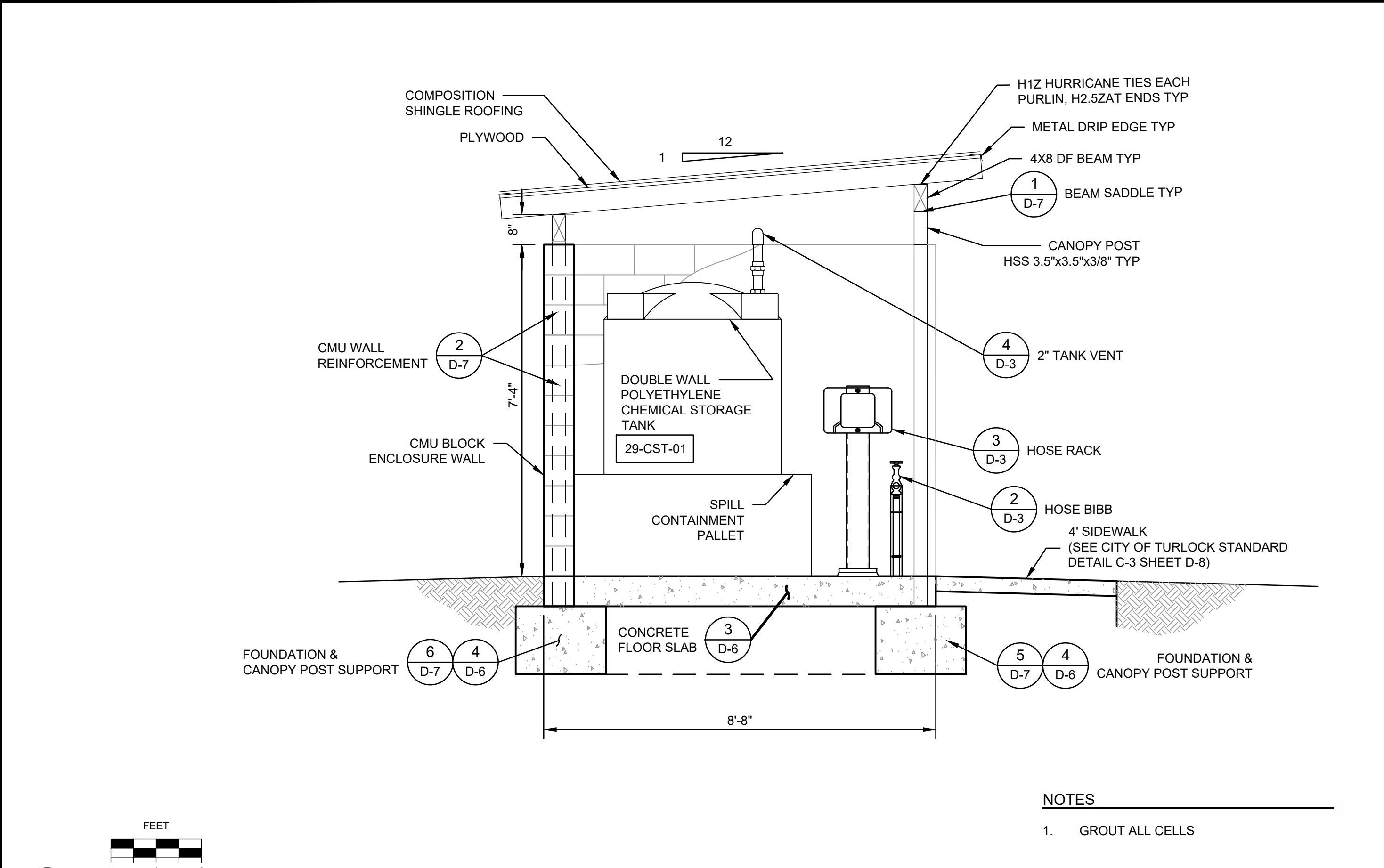
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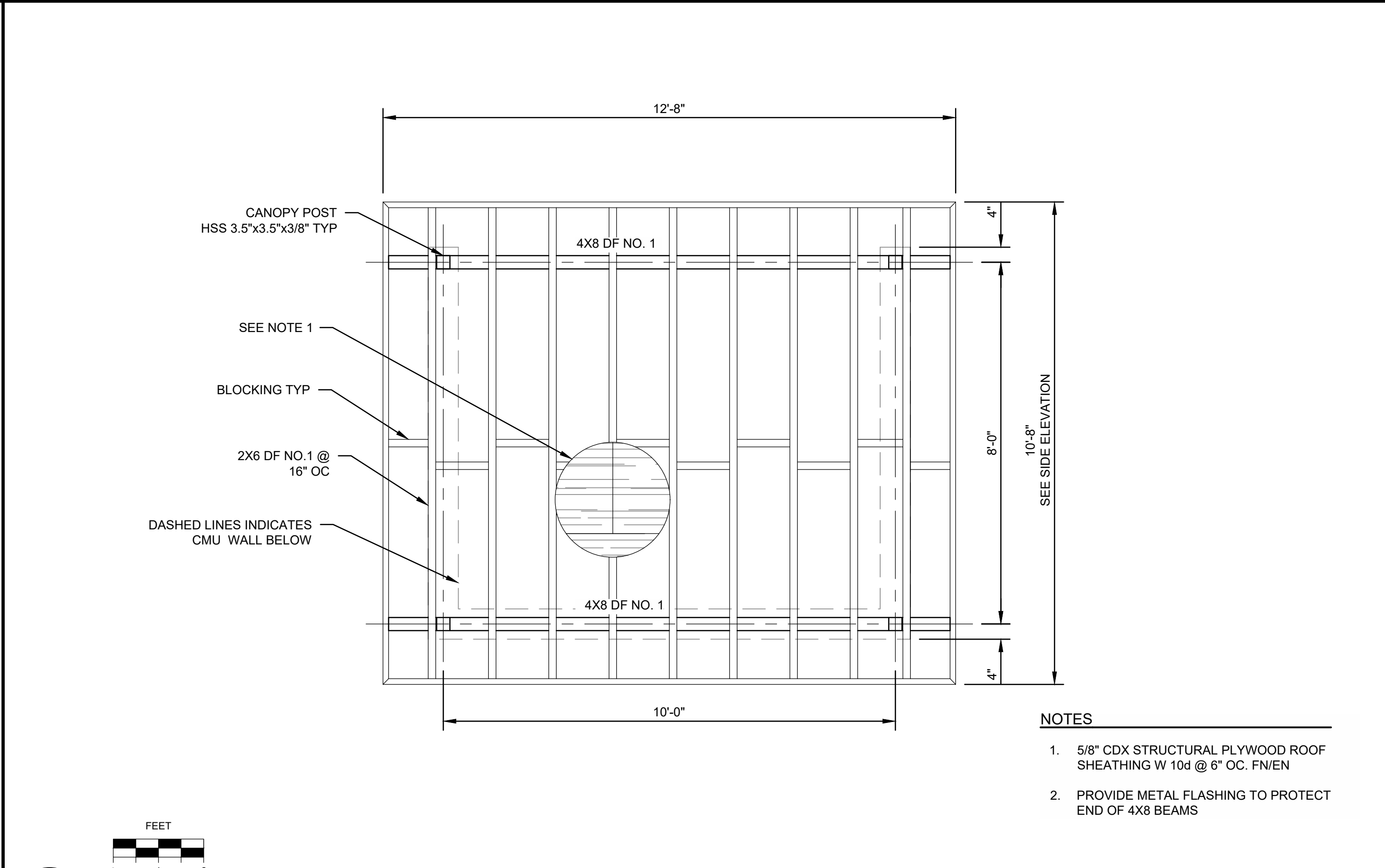
1
D-1
CHEMICAL STORAGE ENCLOSURE PLAN



2
D-1
CHEMICAL ENCLOSURE FRONT ELEVATION



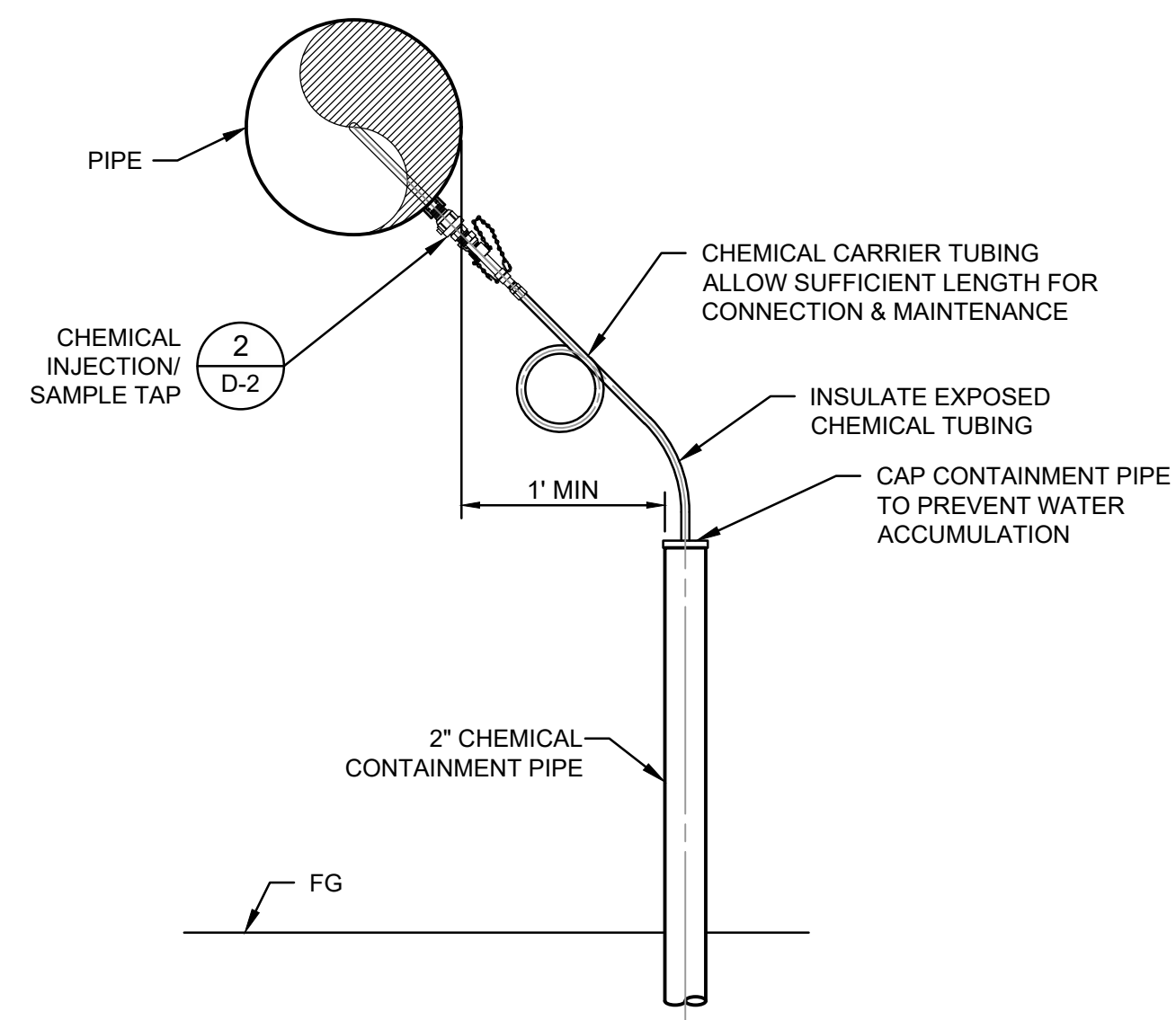
3
D-1
CHEMICAL ENCLOSURE SIDE SECTION



4
D-1
CHEMICAL ENCLOSURE ROOFING PLAN

NOTES

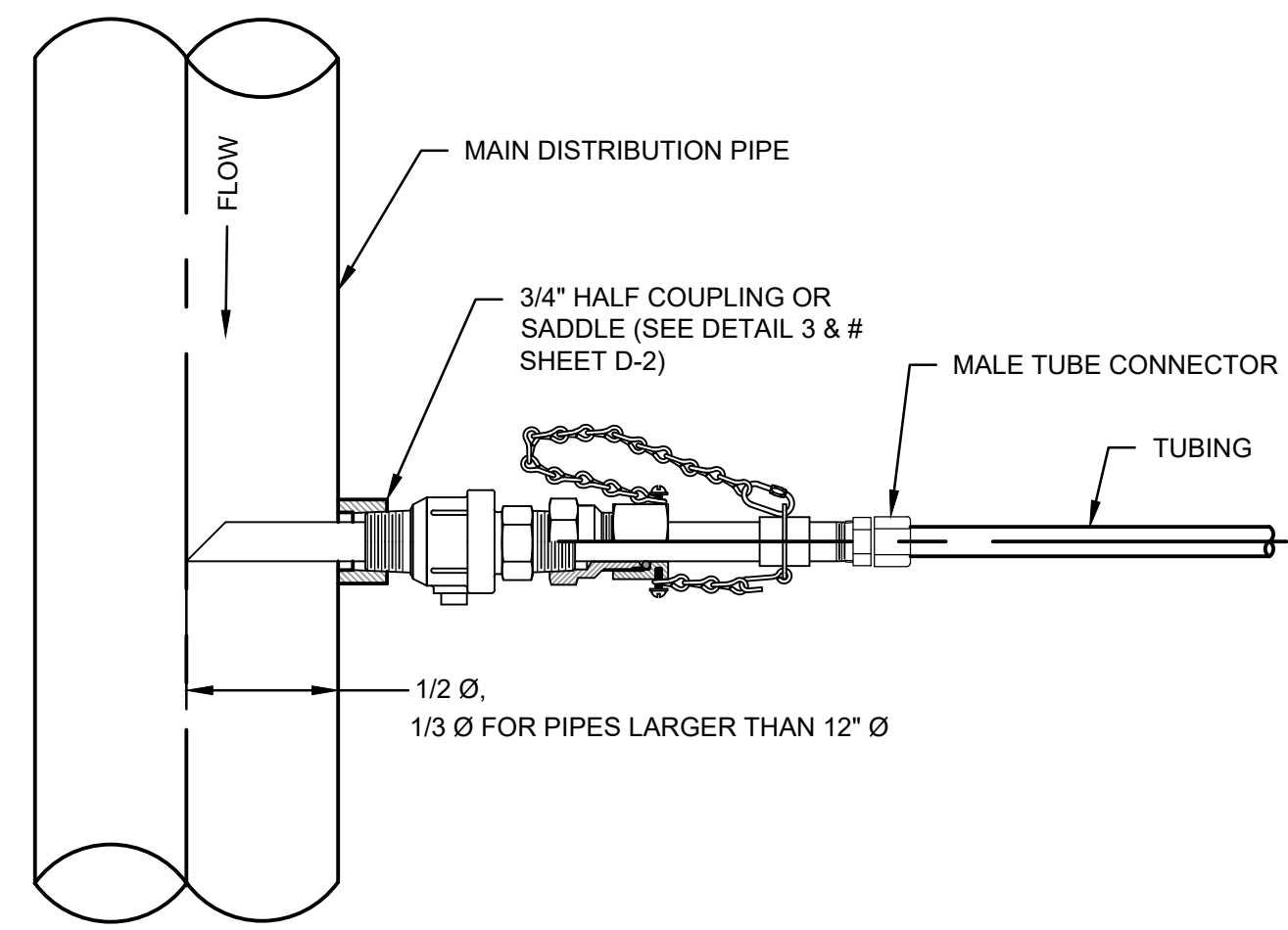
- 5/8" CDX STRUCTURAL PLYWOOD ROOF SHEATHING W 10d @ 6" OC. FNEN
- PROVIDE METAL FLASHING TO PROTECT END OF 4X8 BEAMS



NOT TO SCALE

1
D-2

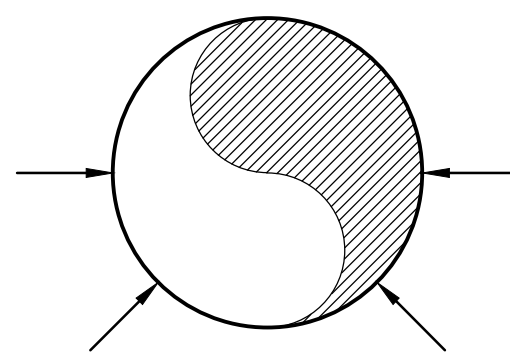
CHEMICAL INJECTION/SAMPLE TAP CONNECTION



NOTES

- CHEMICAL INJECTION TAPS SHALL BE SAF-T-FLO MODEL EB-125 INJECTION ASSEMBLY OR APPROVED EQUAL.
- SAMPLE TAPS SHALL BE SAF-T-FLO MODEL SP-075 OR APPROVED EQUAL.
- TUBE CHAMFER SHALL FACE UPSTREAM.

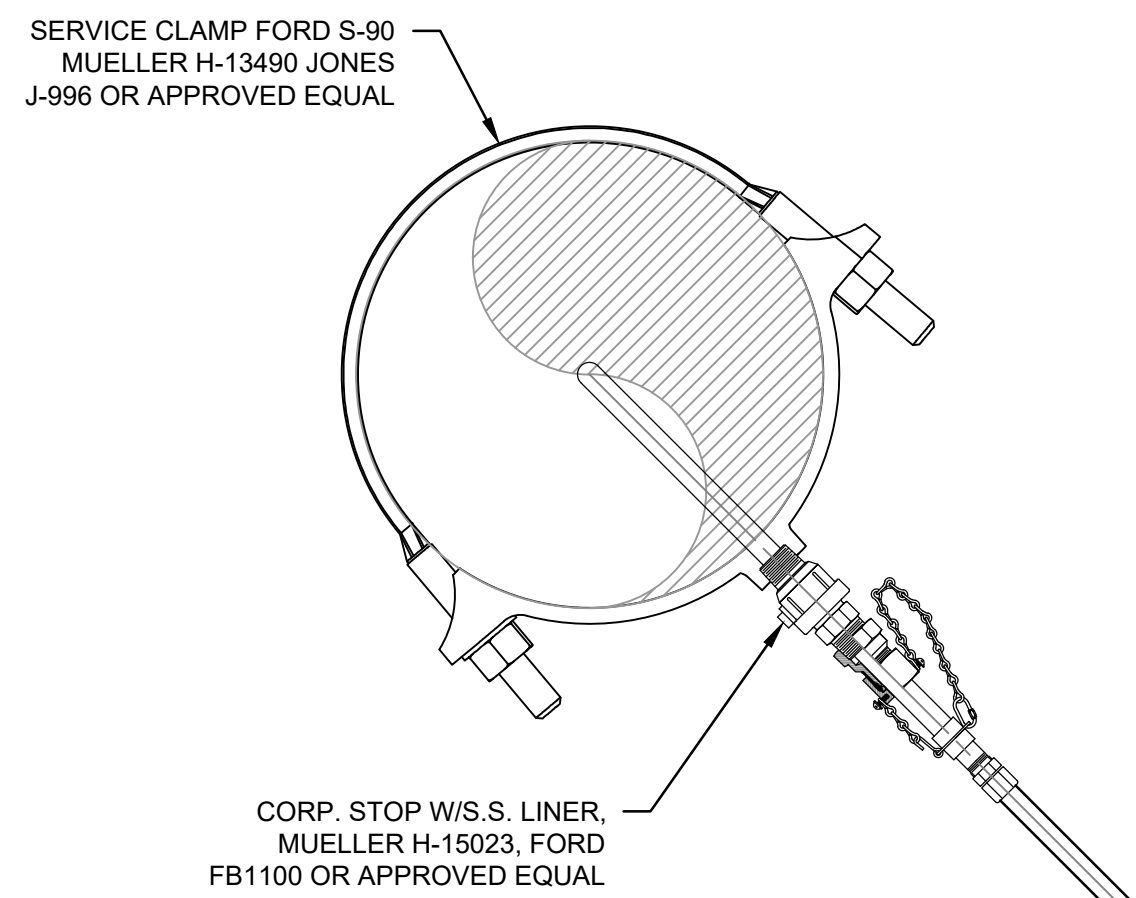
NOTE: ORIENT QUILL AT 45° FROM VERTICAL AS SHOWN BELOW



NOT TO SCALE

2
D-2

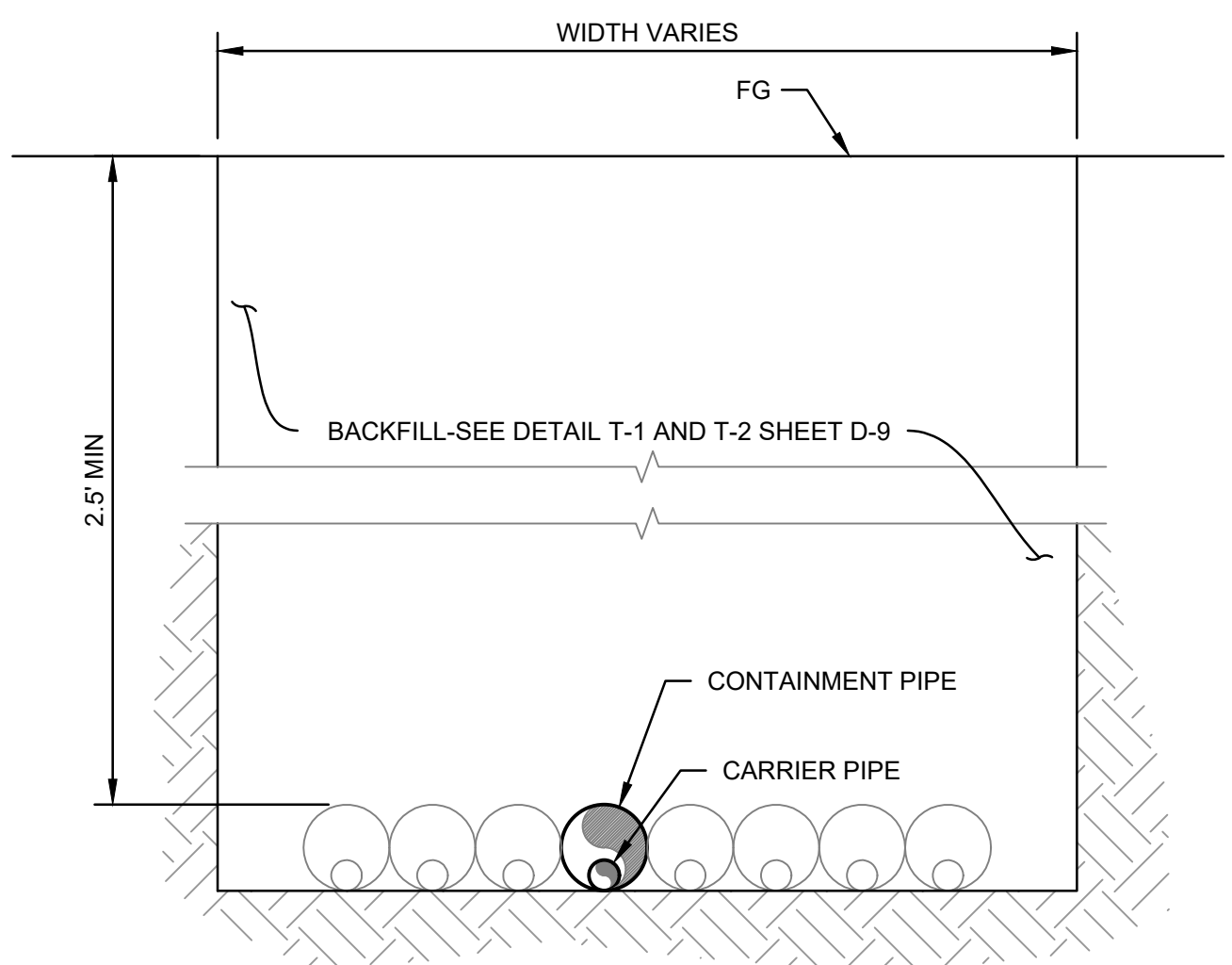
CHEMICAL INJECTION/SAMPLE TAP



NOT TO SCALE

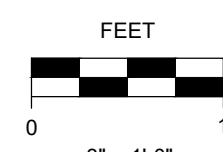
3
D-2

CHEMICAL INJECTION SADDLE



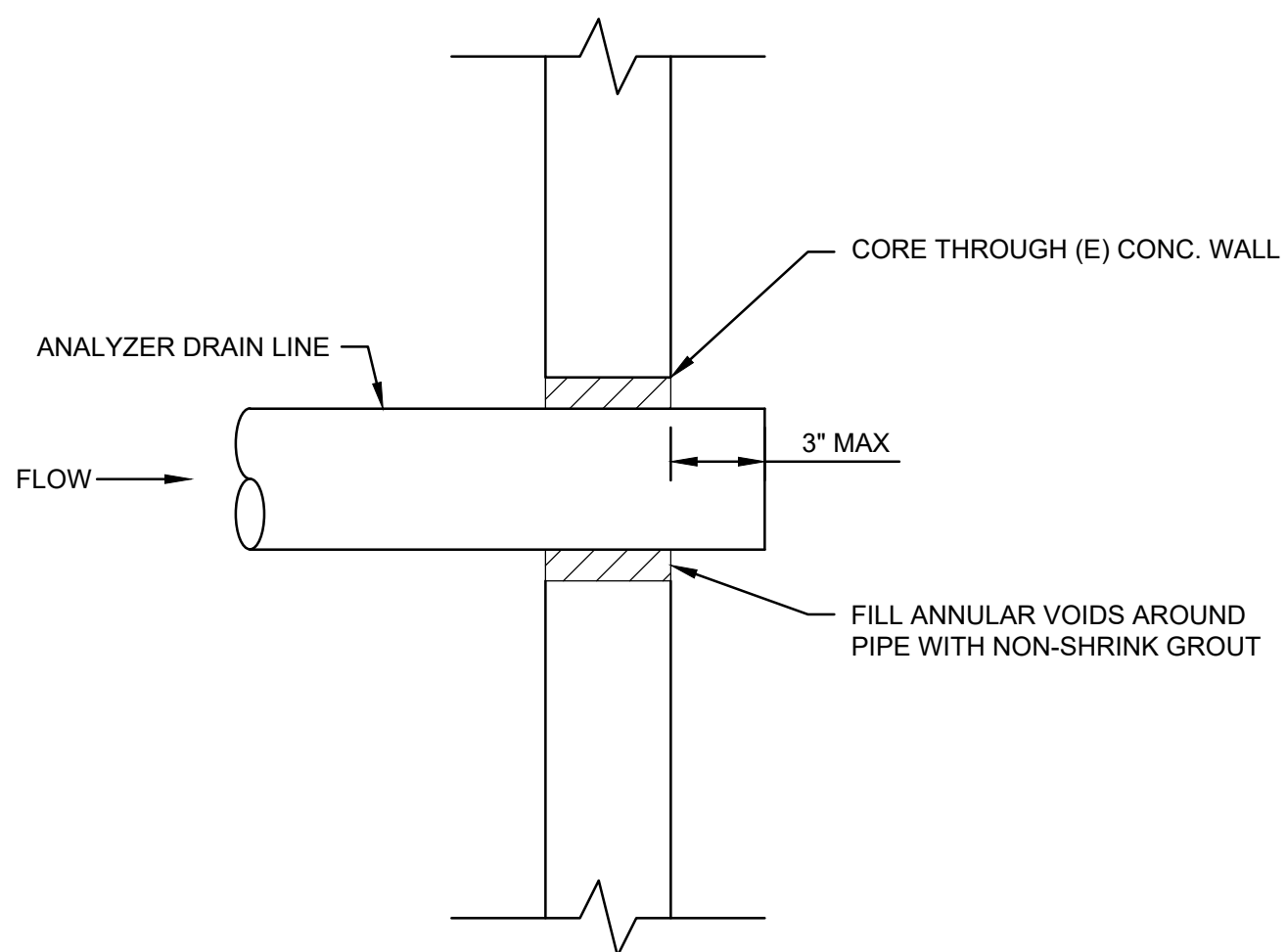
NOTES

- TRENCH MAY CONTAIN AS MANY SETS OF CONTAINMENT/CARRIER PIPES AS NECESSARY FOR CONSTRUCTION.



4
D-2

CHEMICAL AND SAMPLING PIPES



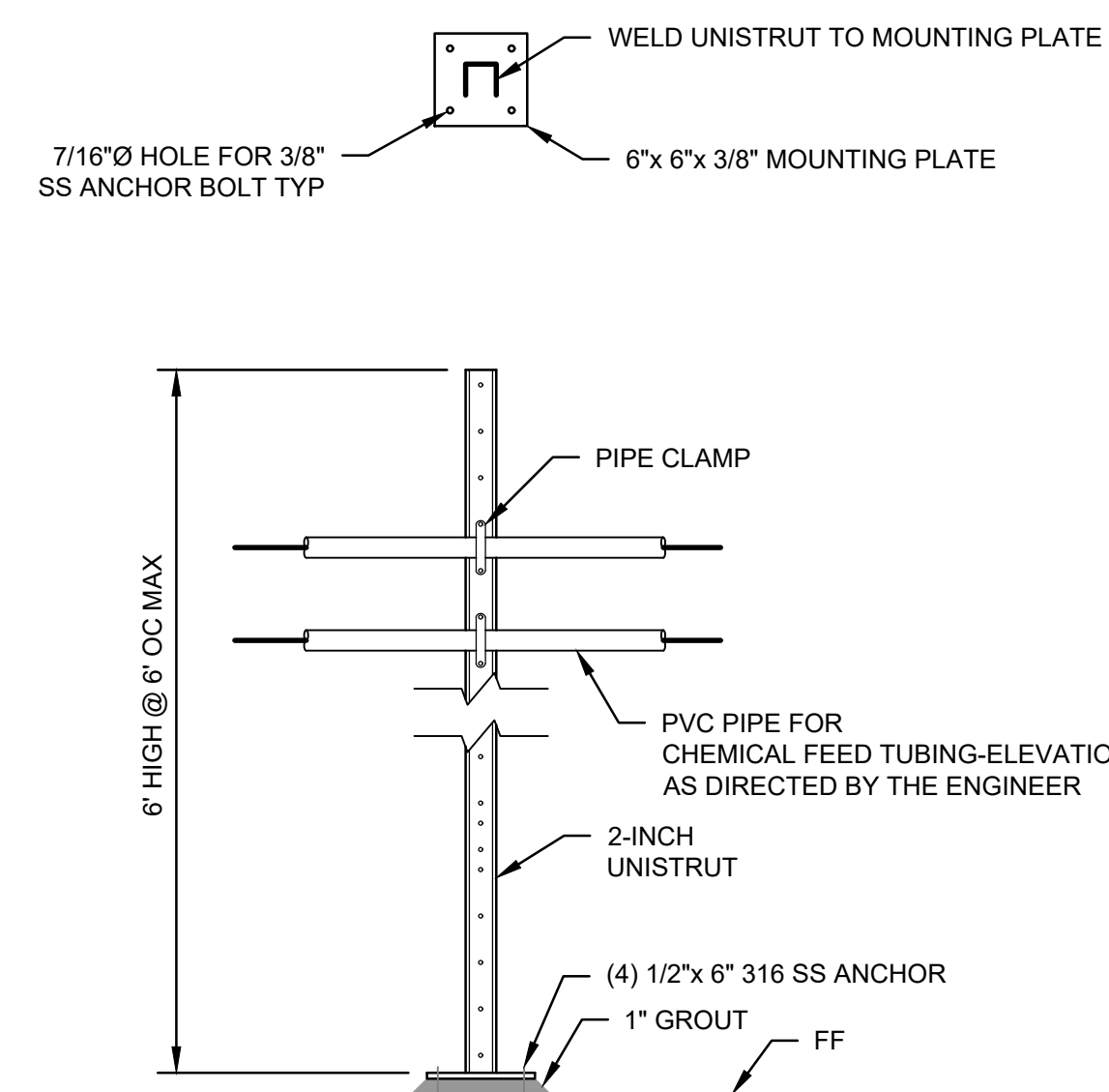
NOTES

- CONTRACTOR TO LOCATE (E) REBAR IN WALL AND LOCATE (N) DRAIN LINE SUCH THAT CORING THE WALL DOES NOT CUT THRU ANY (E) BARS

NOT TO SCALE

5
D-2

CONNECTION INTO (E) STORM DRAIN INLET



NOTES

- UNISTRUT SUPPORTS LOCATED IN CHEMICAL ENCLOSURE SHALL BE FRP WITH STAINLESS STEEL FASTENERS AND CLIPS.

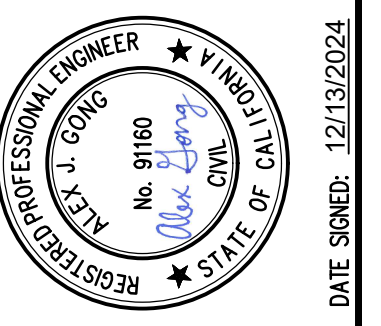
NOT TO SCALE

6
D-2

UNISTRUT PIPE MOUNT

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WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
DETAILS

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DESIGN ENGINEER:
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DRAFTED BY: ENA
CHECKED BY: KMM

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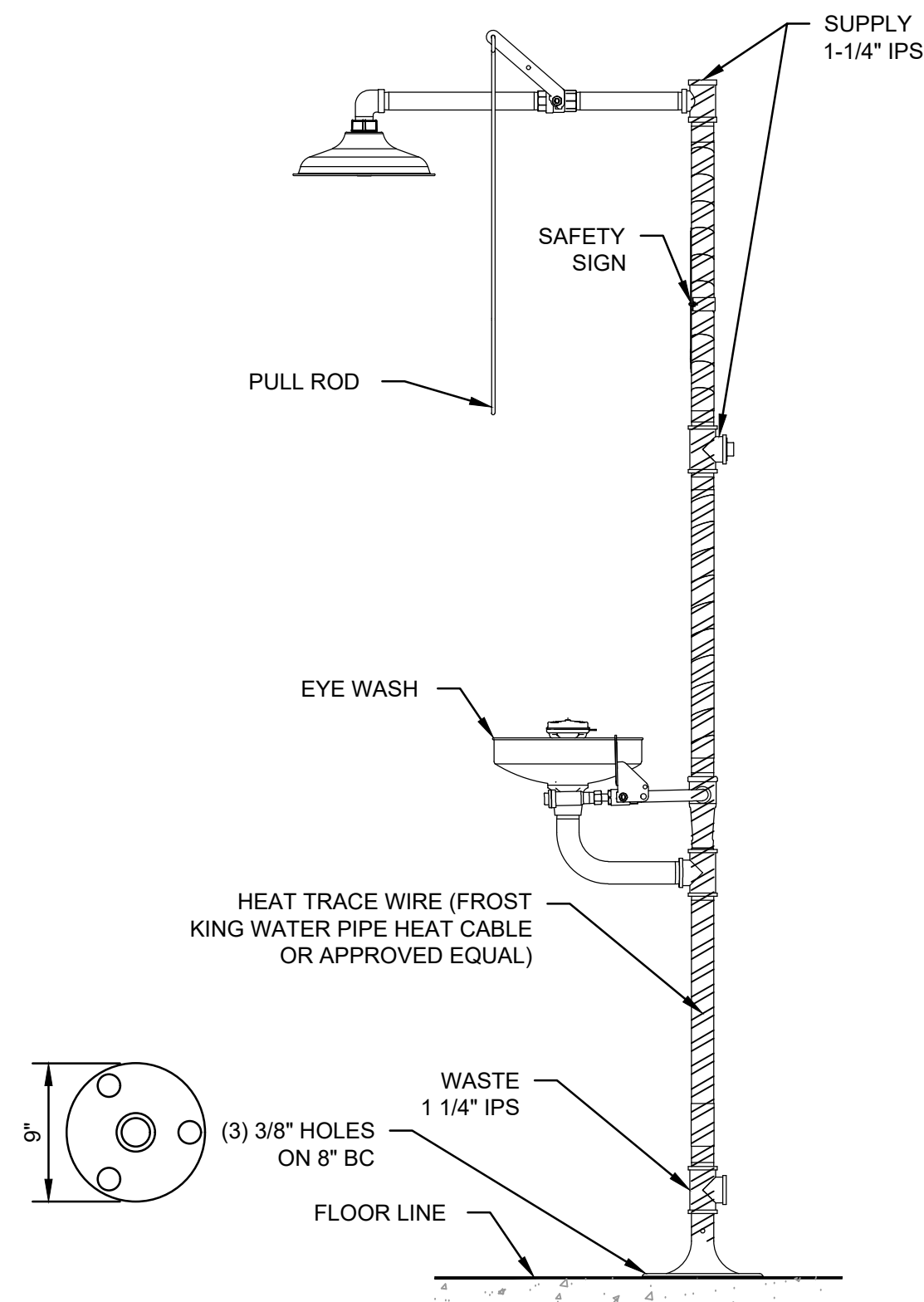
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ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

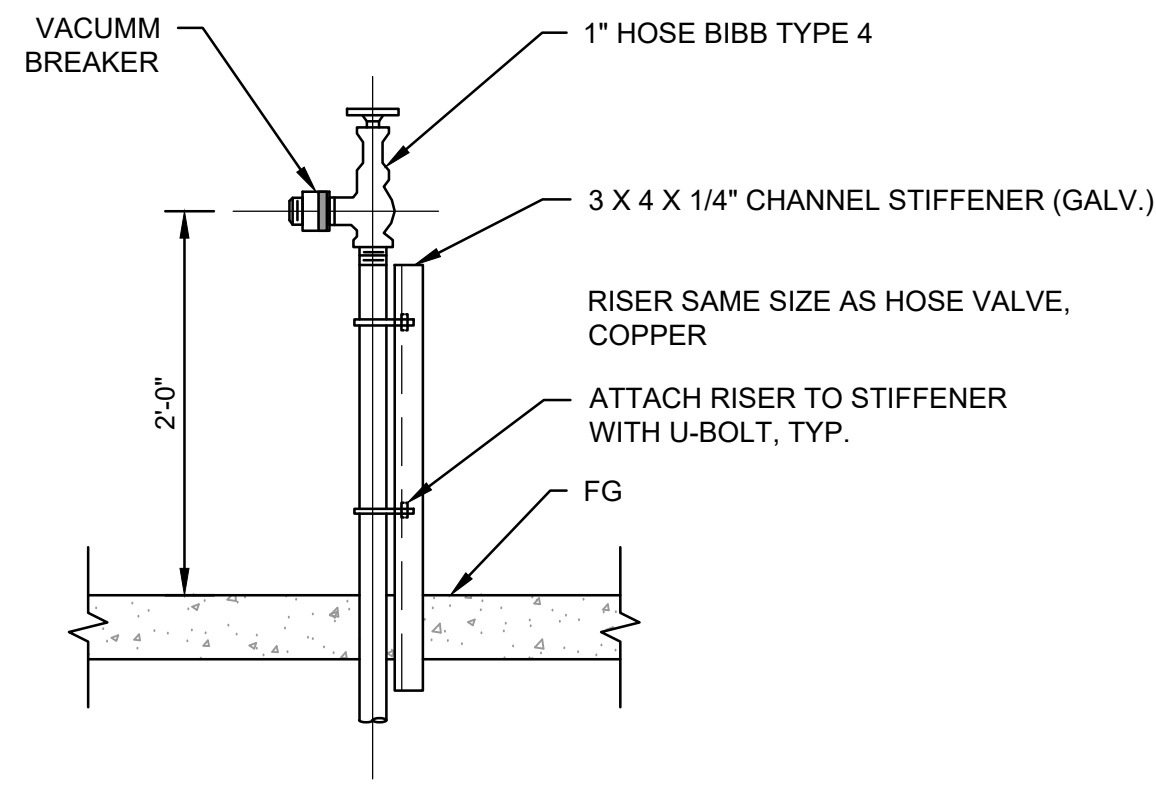
SHEET D-2

10 OF 35

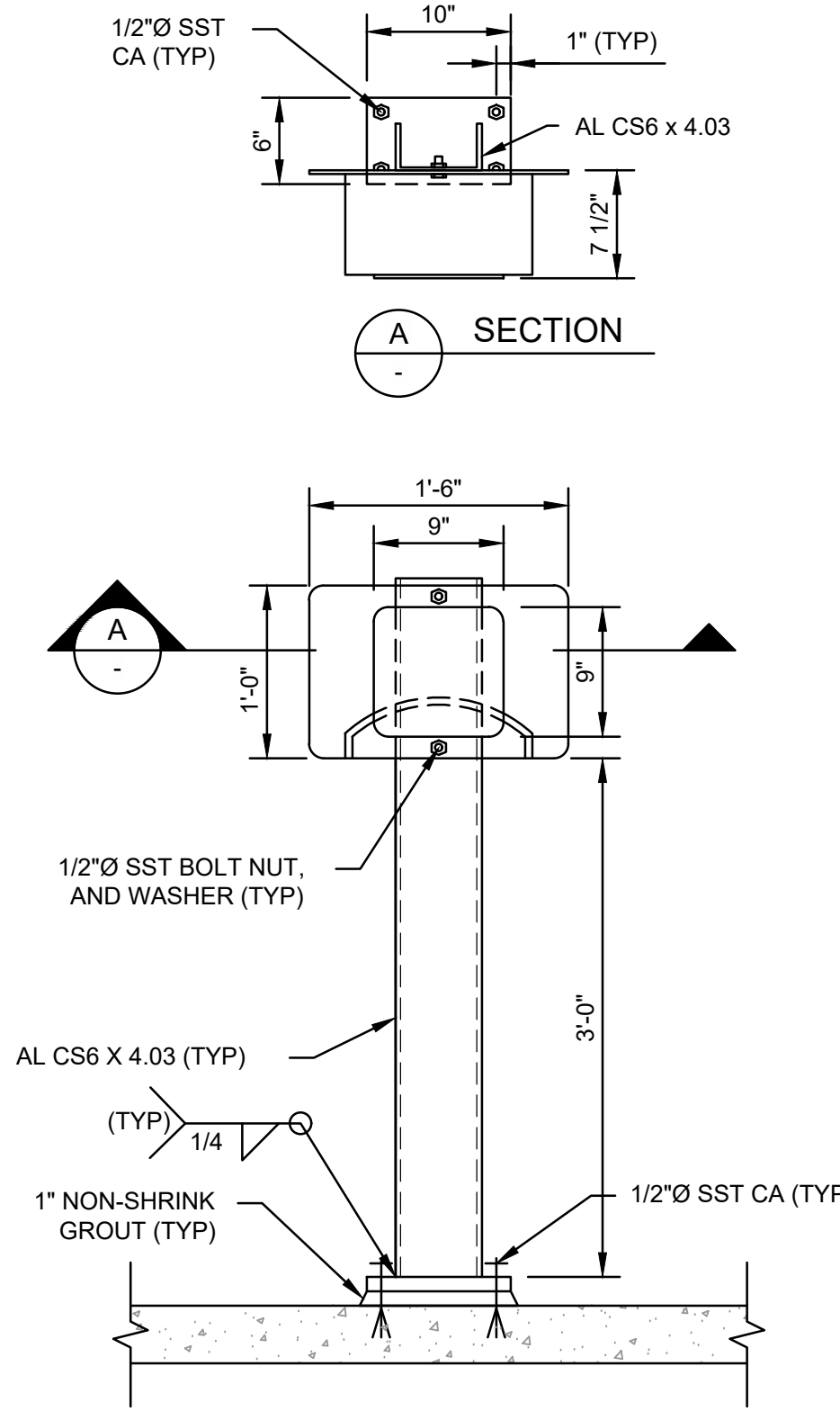
EYE WASH/SHOWER WITH STAINLESS STEEL BOWL
HAWS 8300-8309 OR EQUAL



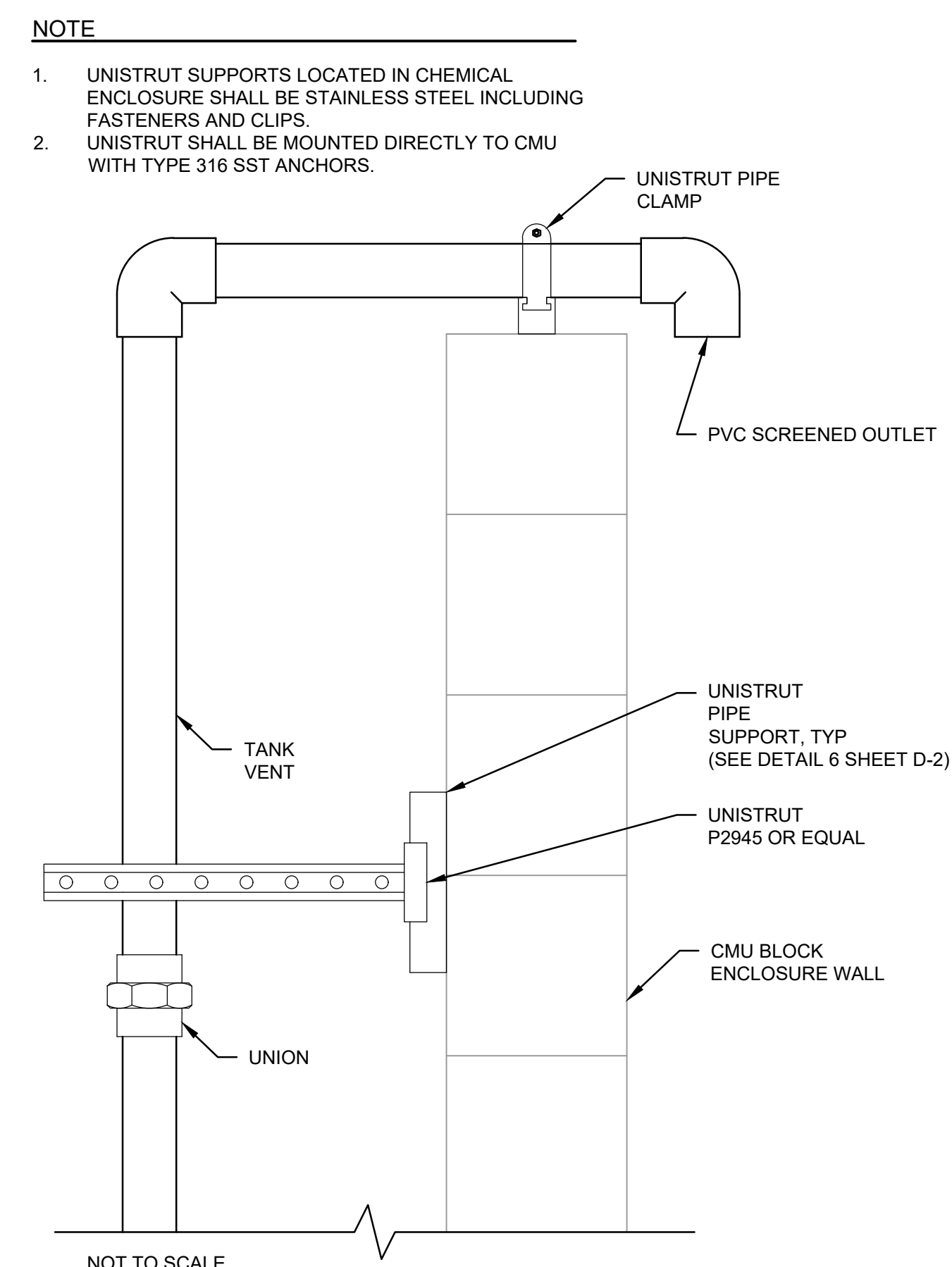
1
D-3
EMERGENCY EYE WASH & SHOWER



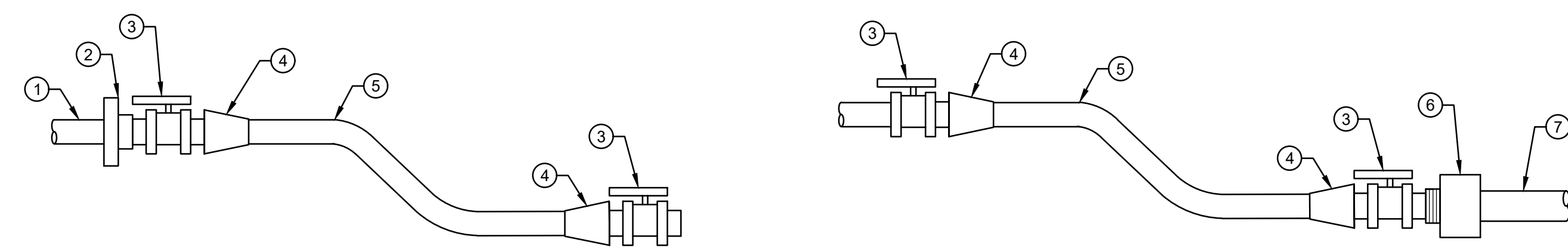
2
D-3
HOSE BIBB



3
D-3
FLOOR MOUNTED HOSE RACK



4
D-3
TANK VENT SUPPORT

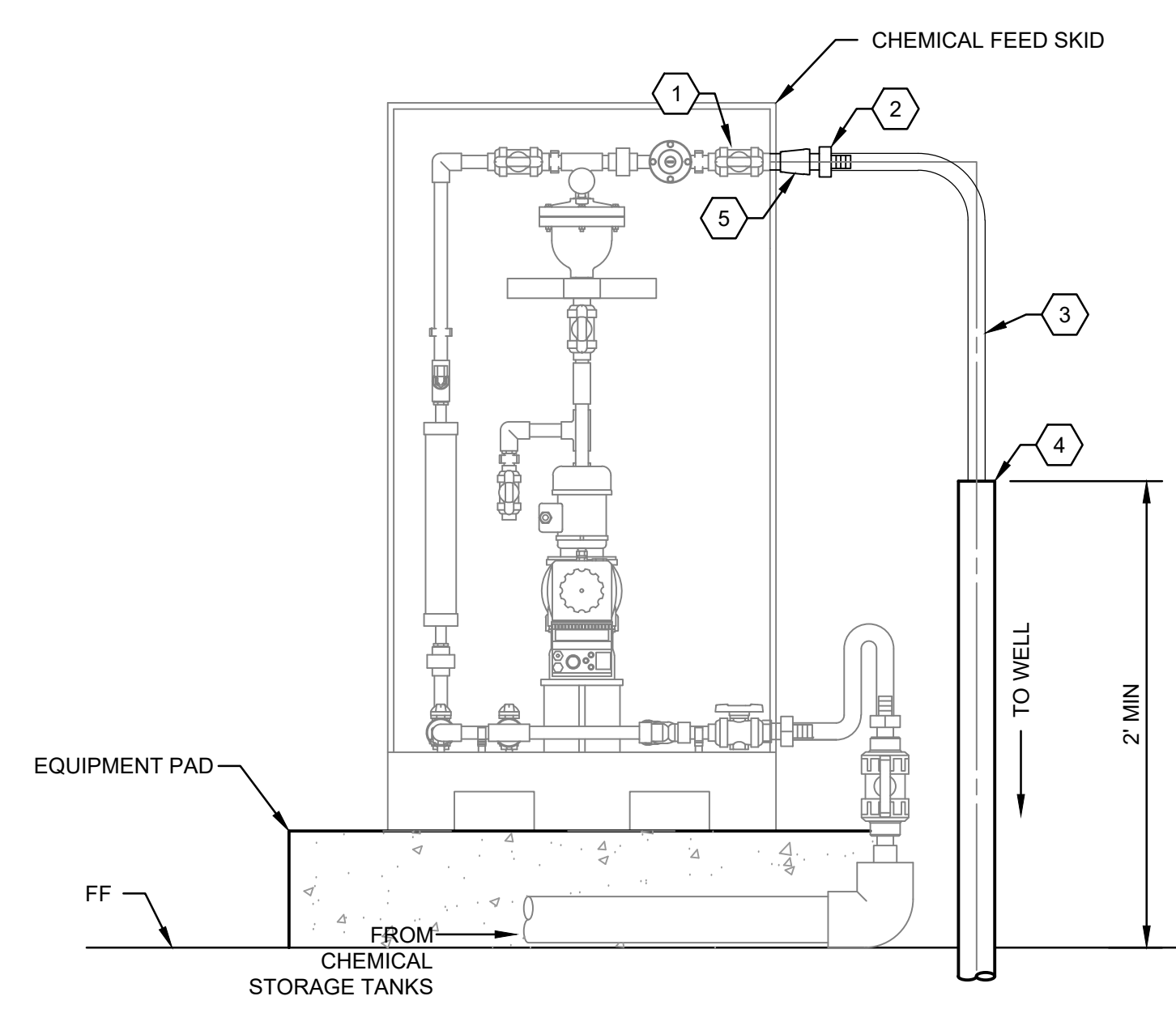


5
D-3
SUCTION CONNECTION

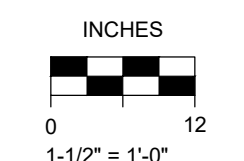
6
D-3
DISCHARGE CONNECTION

- CONNECTION SIZING:**
- ① 1" SCH 80 PVC
 - ② 2" X 1/2" NPT BUSHING
 - ③ 1/2" NPT BALL VALVE (SEE NOTE 1)
 - ④ 1/2" NPT HOSE BARB W/ SST WORM GEAR HOSE CLAMP
 - ⑤ 1/2" PVC TUBING
 - ⑥ 3/4" SxNPT ADAPTER
 - ⑦ 3/4" SCH 80 PVC
- NOTE**
- 1. NO BALL VALVES REQUIRED FOR VENT CONNECTIONS

MATERIAL LIST	
ID	DESCRIPTION
①	1/2" TYPE 6 BALL VALVE
②	3/4 HOSE BARB W/ WORM GEAR HOSE CLAMP
③	CHEMICAL TUBING
④	1-1/2" SCH 40 PVC PIPE
⑤	3/4" x 1/2" REDUCER



7
D-3
TYPICAL CHEMICAL FEED SKID DISCHARGE CONNECTION DETAIL



ISSUED FOR BIDDING PURPOSES
 DECEMBER 2024

WELL 29 CHLORINATION
 CITY OF TURLOCK
 CITY PROJECT NO. 23-046
 DETAILS

CHLORINATION DETAILS

DESIGN ENGINEER:
 A/JG
 LICENSE NO:
 91160

DRAFTED BY:
 ENA
 CHECKED BY:
 KMM

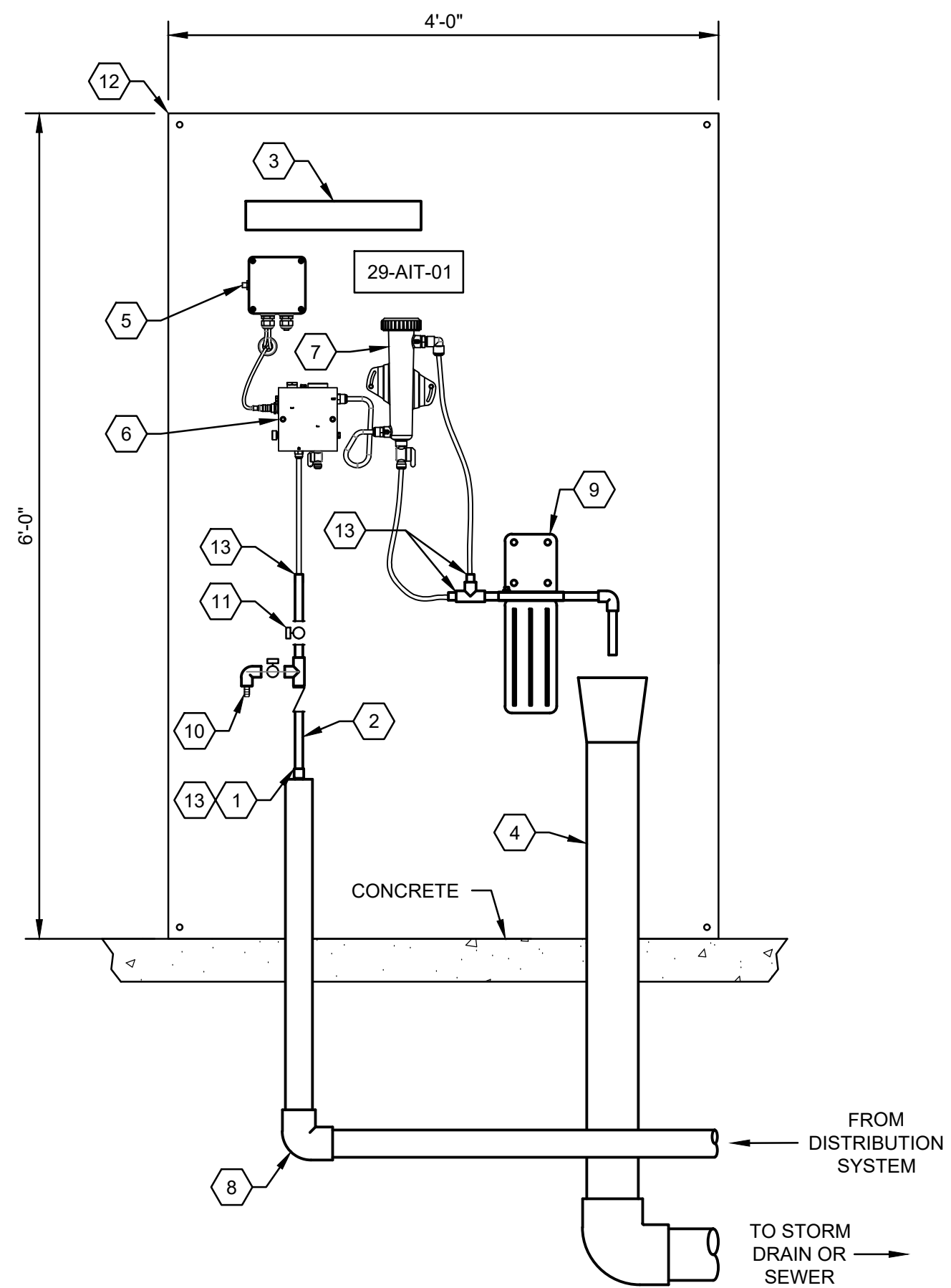
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 JOB NO: 229223003

PROJECT NO:
 PHASE: CD

ORIGINAL SCALE SHOWN IS ONE
 INCH. ADJUST SCALE FOR
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SHEET
D-3
 11 OF 35

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MATERIAL LIST	
ID	DESCRIPTION
1	1" x 1/2" REDUCER
2	ANALYZER FEED WATER PIPE
3	ANALYZER NAMEPLATE (TYP)
4	DRAIN LINE (SIZE & MATERIAL PER PLAN)
5	CHLORINE ANALYZER CONTROLLER
6	CHLORINE FLOW CELL
7	pH FLOW CELL
8	1" SITE WATER
9	WATTS 70,000 GALLON ACTIVATED BLOCK CARTRIDGE WITH HEAVY DUTY FILTER HOUSING OR APPROVED EQUAL
10	SAMPLE TAP (TYP)
11	BALL VALVE (TYP)
12	1/2" BACKBOARD, SEE NOTE 2
13	TUBING ADAPTER

- NOTES**
- ALL ANALYZERS TO BE EQUIPPED WITH MANUFACTURER'S RECOMMENDED SAMPLE CONDITIONING ACCESSORIES.
 - ANALYZER BACKBOARD TO BE COVERED WITH WATERPROOF POLYMER, OR EXTERIOR GRADE PLYWOOD WITH 12 GAUGE STAINLESS STEEL SHEET FROM THE FLOOR TO THE HIGHEST PIECE OF EQUIPMENT. RIGIDLY MOUNT EQUIPMENT, ACCESSORIES, CABLES, AND TUBING/PIPES TO BACKBOARD USING STAINLESS STEEL CLIPS AND FASTENERS. MOUNTING USING ADHESIVES IS NOT ACCEPTABLE. MOUNT BACKBOARD TO CMU WALL OR TO TWO UNISTRUT SUPPORTS.
 - ELECTRICAL JUNCTION BOXES FOR POWER AND SIGNAL TO/FROM THE ANALYZERS SHALL BE MOUNTED TO THE BACKBOARD NEAR THE ANALYZERS WITH CONDUIT/CABLE ROUTED NEATLY BETWEEN THE JUNCTION BOXES AND ANALYZERS.

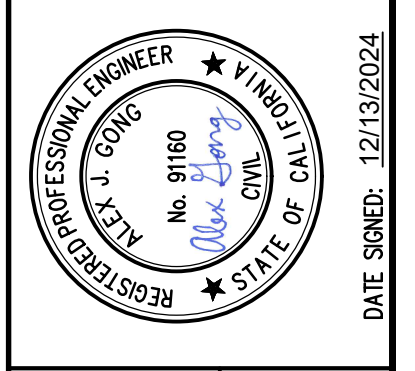
1
D-4

NOT TO SCALE

WATER SAMPLING STATION

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APPLICABLE PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE
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ISSUED FOR BIDDING PURPOSES
DECEMBER 2024



WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
DETAILS

SAMPLING STATION DETAILS

PROVOST & PRITCHARD
425 W. FIR AVENUE
TURLOCK, CA 95354
PHONE (559) 449-2700
FAX (559) 449-2715
www.provostandpritchard.com

DESIGN ENGINEER:
A.J.G.
LICENSE NO:
91160

DRAFTED BY: ENA CHECKED BY: KMM

DATE: DECEMBER 2024

JOB NO: 229223003

PROJECT NO:
PHASE: CD

0 1"

ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET D-4

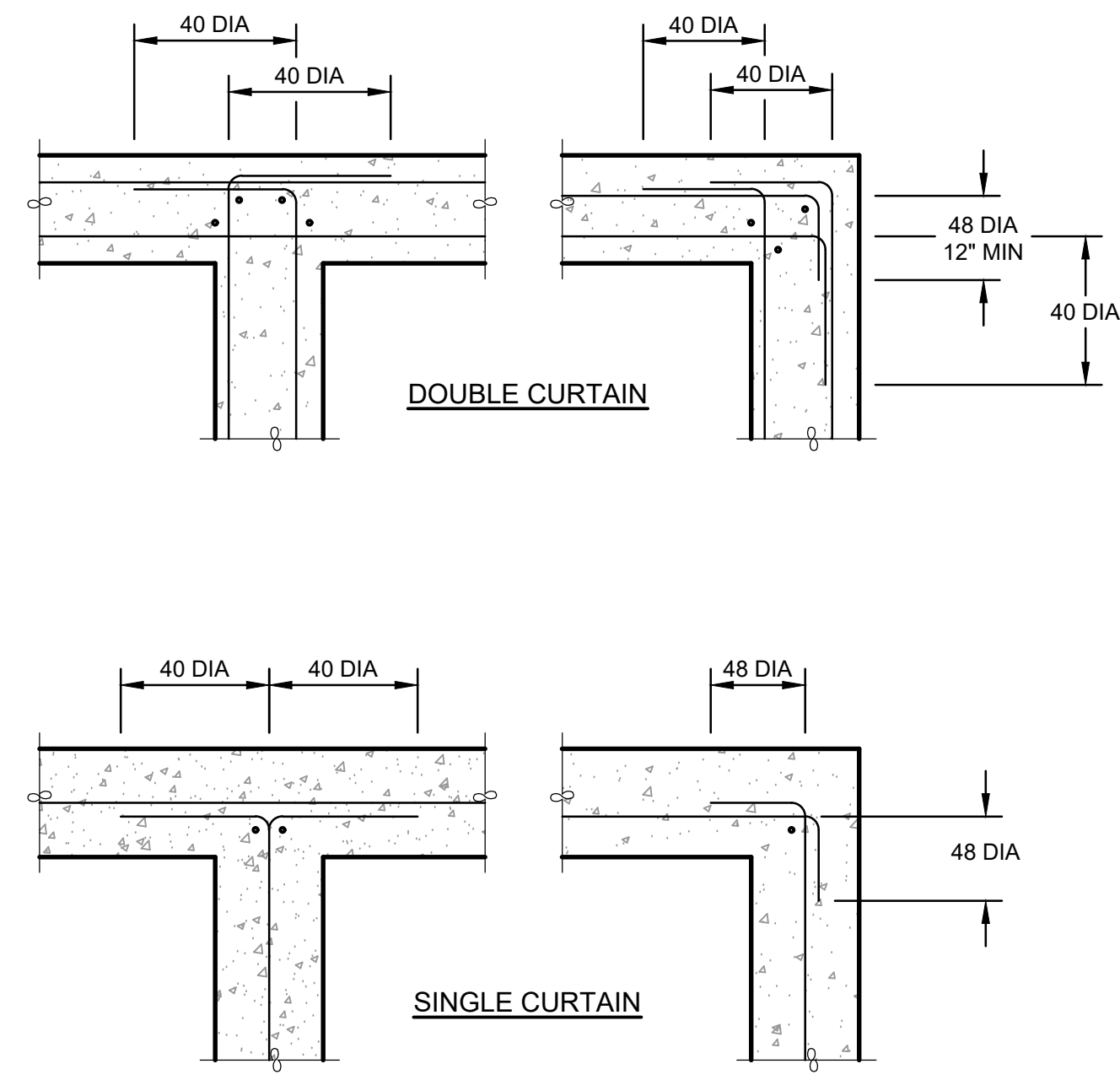
12 OF 35

DATE SIGNED: 12/13/2024

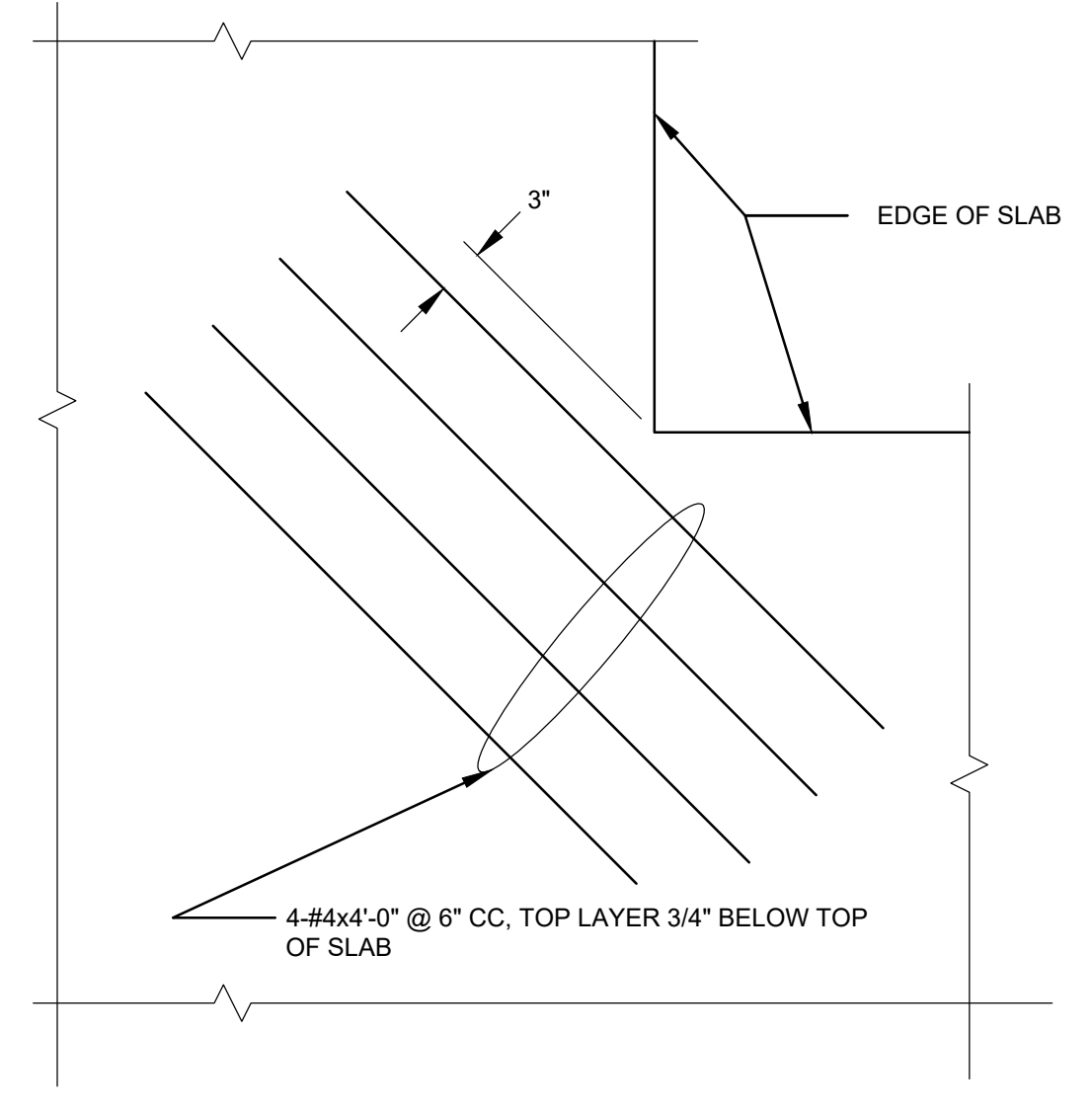
NO. BY DATE

REVISION

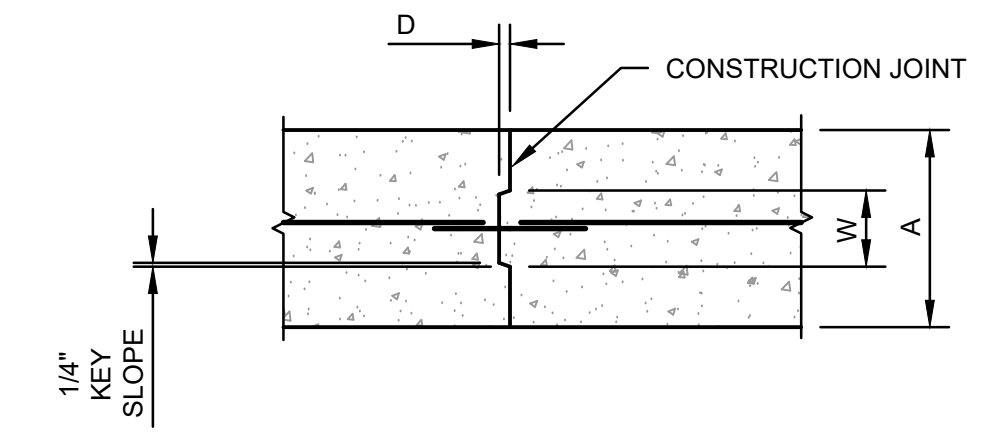
12/13/2024 11:44 AM G:\Turlock_City-229223003-Sheet\04-Civil_Details\04-SAMPLING STATION DETAILS.dwg -Alex Gong



1
D-5
NOT TO SCALE
REINFORCEMENTS WITH NO WATERSTOPS



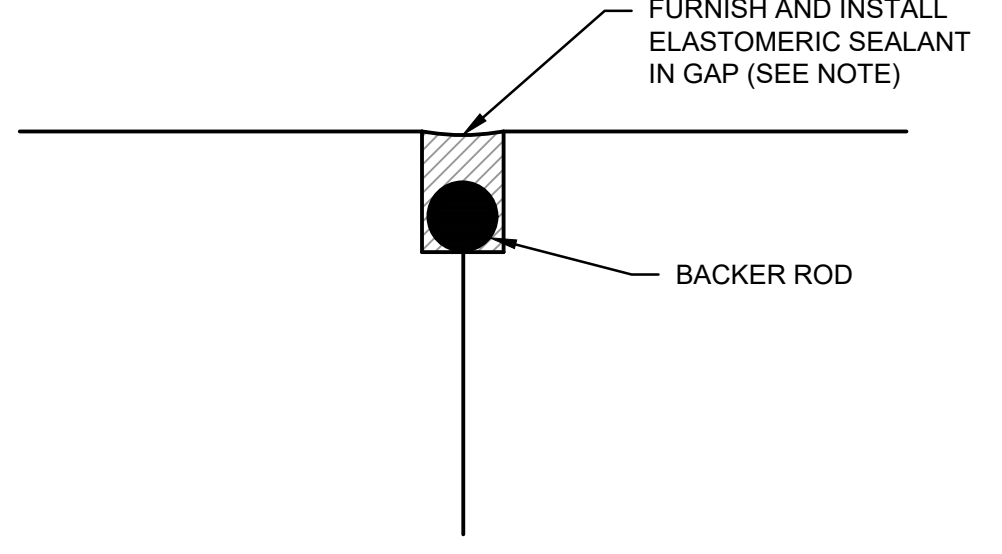
2
D-5
FEET
0 5 1
NOT TO SCALE
INTERIOR SLAB CORNERS



- NOTES
- KEYS ARE REQUIRED FOR HORIZONTAL CONSTRUCTION JOINTS.
 - FOR SUSPENDED SLABS, PROVIDE A KEY FOR AT LEAST 50% OF THE CONSTRUCTION JOINT LENGTH.

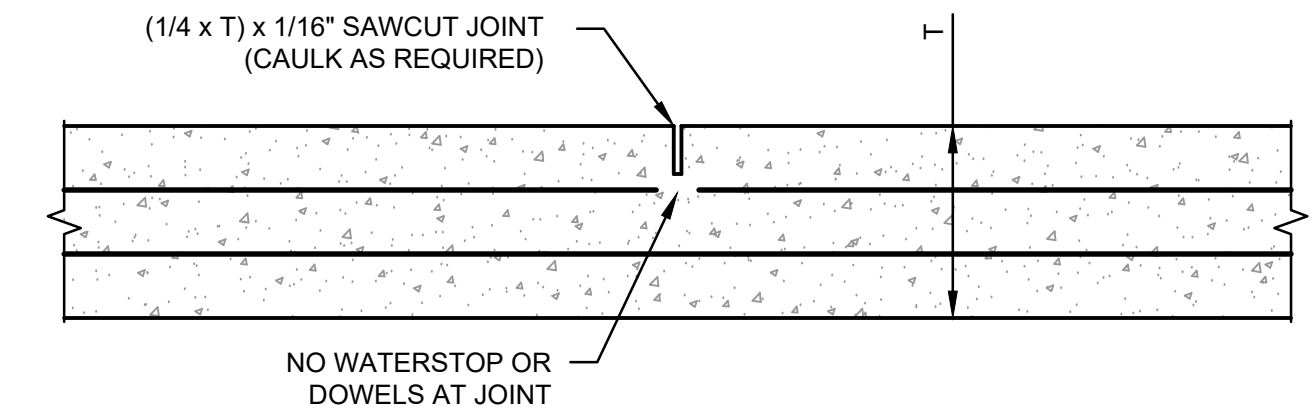
THICKNESS OF SLAB OR WALL "A"	NOMINAL KEY SIZE DxW
LESS THAN 8"	2x3
9" TO 12"	2x4
13" TO 18"	2x6
19" TO 24"	2x8
MORE THAN 24"	2x12

3
D-5
NOT TO SCALE
CONCRETE LONGITUDINAL JOINT



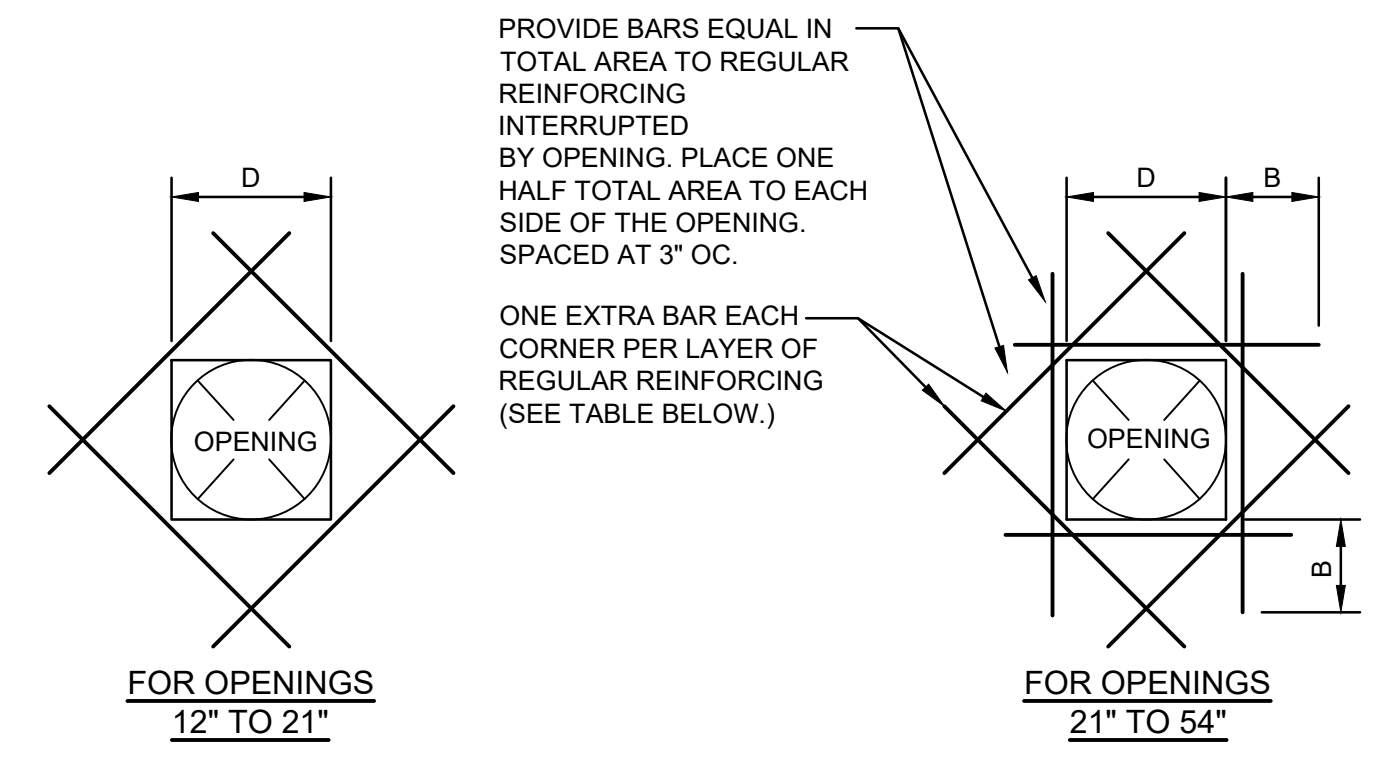
- SEALANT NOTES:
- REFER TO CALTRANS 2015 STANDARD PLAN P20 FOR LIQUID JOINT SEALANT/BACKER ROD DIMENSIONS
 - ALL COLD JOINT INTERFACES BETWEEN CONCRETE SURFACES SHALL BE FILLED WITH "SIKAFLEX 1A" ELASTOMERIC SEALANT OR APPROVED EQUAL. CONCRETE SHALL CURE FOR AT LEAST 72 HOURS PRIOR TO SEALANT PLACEMENT. CLEAN OUT GAP PRIOR TO SEALANT PLACEMENT AND APPLY ACCORDING TO PRODUCT MANUFACTURER REQUIREMENTS. SEALANT SHALL FILL JOINT COMPLETELY.

4
D-5
NOT TO SCALE
CONCRETE JOINT SEAL



- NOTES
- IF SINGLE LAYER REINFORCEMENT, EVERY OTHER BAR IS DISCONTINUOUS AT JOINT.
 - IF 2 LAYERS REINFORCEMENT, TOP LAYER IS COMPLETELY DISCONTINUOUS AT JOINT.
 - JOINT FORMED WITH TOOL OR INSERT STRIP MAY BE SUBSTITUTED FOR SAWED TYPE ONLY WITH PRIOR ACCEPTANCE BY THE ENGINEER.
 - SAWED JOINT MUST BE CONSTRUCTED WITHIN 12 HOURS OF CONCRETE PLACEMENT.

5
D-5
NOT TO SCALE
CONCRETE CONTROL JOINT

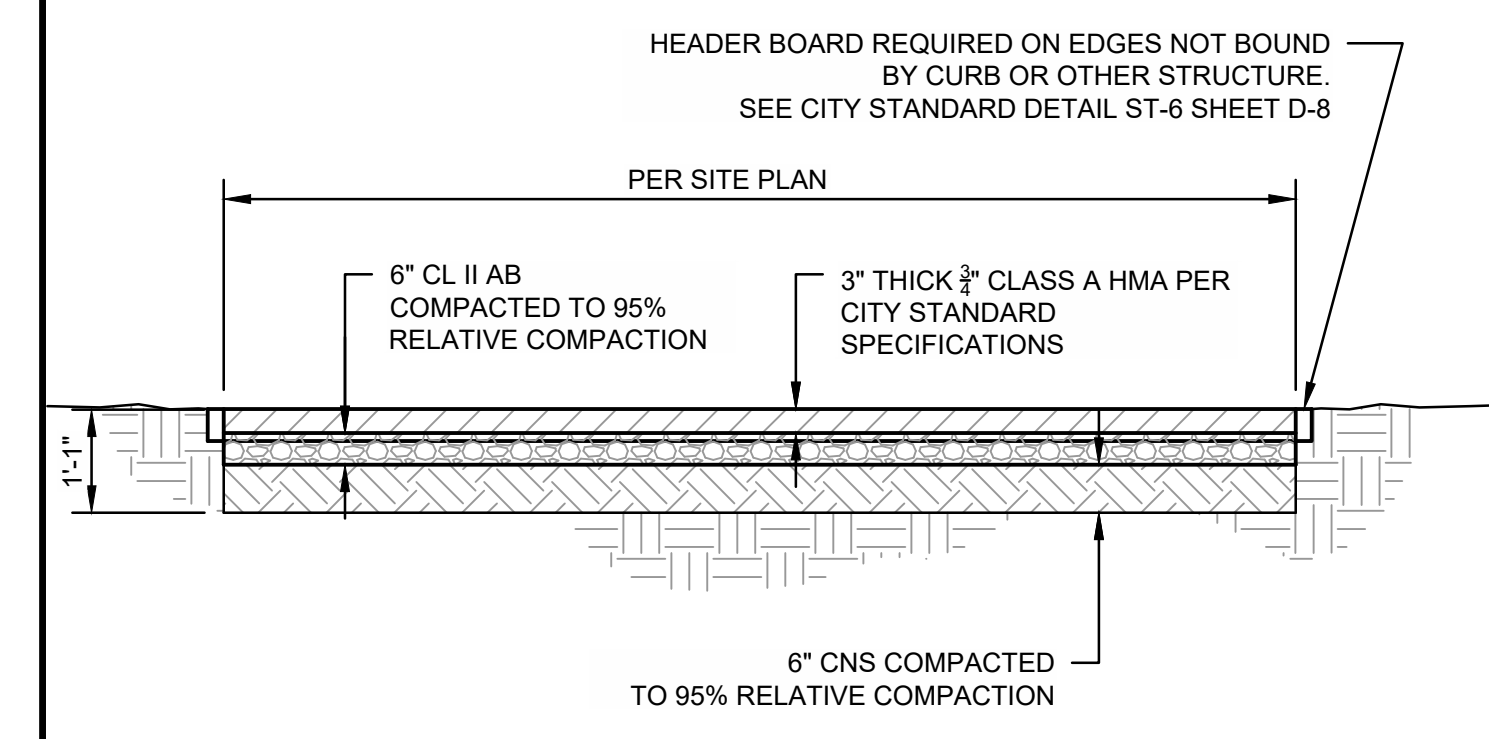


THICKNESS OF CONCRETE	BAR LENGTH		
	BAR SIZE	RECT. OPENING	CIRCLE OPENING
< 12"	#4	3'-0"	D+24"
12" - 18"	#5	3'-0"	D+24"
> 18"	#6	3'-8"	D+24"

B = THE REQUIRED LENGTH FOR LAPPED SPLICE FOR TOP BARS AS SHOWN IN CONC. REINFORCEMENT SPLICE TABLE.

NOTE
THIS DETAIL APPLIES TO ALL OPENINGS IN WALLS AND SLABS THAT DO NOT RETAIN LIQUID OR SOIL.

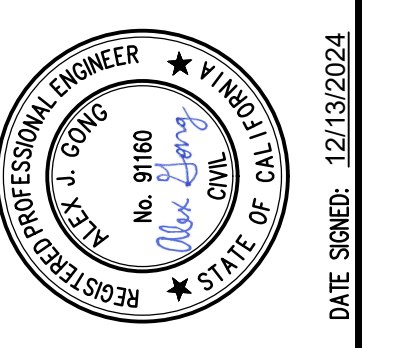
6
D-5
NOT TO SCALE
CONCRETE OPENING REINFORCEMENT WITHOUT LIQUID OR SOIL



7
D-5
NOT TO SCALE
AC PAVEMENT SECTION

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DECEMBER 2024

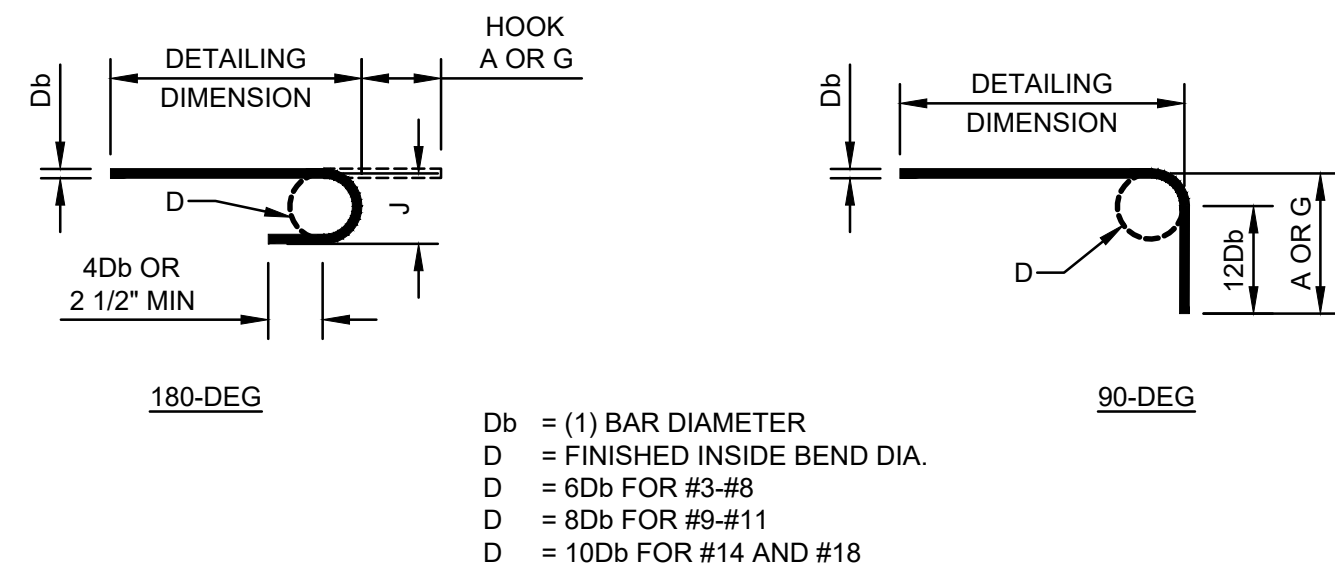


WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
DETAILS
STRUCTURAL DETAILS

PROVOST & PRITCHARD
425 W. FIR AVENUE
TURLOCK, CA 95354
PHONE (559) 449-2700
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www.provostandpritchard.com

DESIGN ENGINEER:
A/JG
LICENSE NO:
91160
DRAFTED BY: ENA
CHECKED BY: KMM
DATE: DECEMBER 2024
JOB NO: 22923003
PROJECT NO:
PHASE: CD
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.
SHEET D-5
13 OF 35

SL-0106

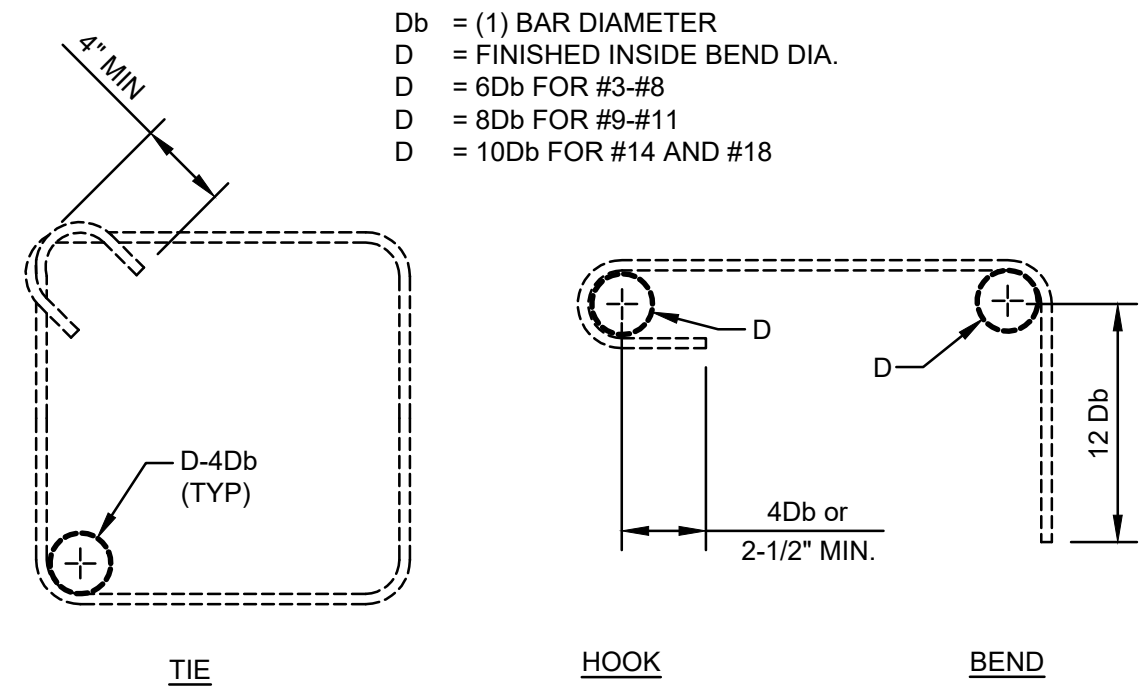


180-DEG

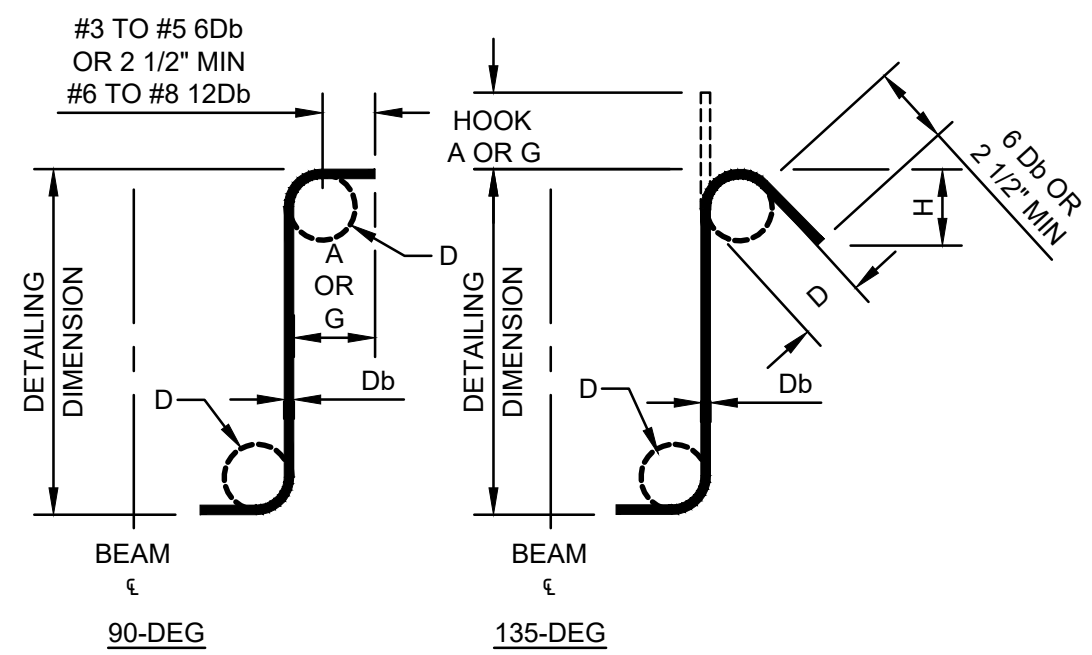
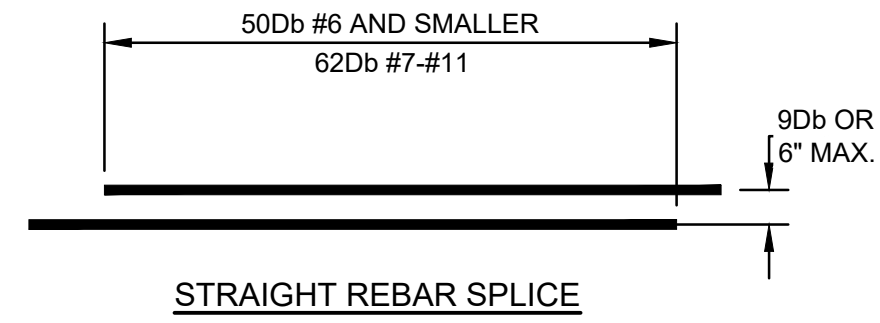
90-DEG

Db = (1) BAR DIAMETER
 D = FINISHED INSIDE BEND DIA.
 D = 6Db FOR #3-#8
 D = 8Db FOR #9-#11
 D = 10Db FOR #14 AND #18

SIZE	DIMENSION OF STANDARD 180° HOOKS, ALL GRADES			DIMENSION OF STANDARD 90° HOOKS, ALL GRADES	
	D	J	A OR G	D	A OR G
#3	2 1/4"	3"	5"	2 1/4"	6"
#4	3"	4"	6"	3"	8"
#5	3 3/4"	5"	7"	3 3/4"	10"
#6	4 1/2"	6"	8"	4 1/2"	12"
#7	5 1/4"	7"	10"	5 1/4"	14"
#8	6"	8"	11"	6"	16"
#9	9 1/2"	11 3/4"	15"	9 1/2"	19"
#10	10 3/4"	13 1/4"	17"	10 3/4"	22"
#11	12"	14 3/4"	19"	12"	24"
#14	18 1/4"	21 3/4"	27"	18 1/4"	31"
#18	24"	28 1/2"	36"	24"	41"



REINFORCEMENT BENDS



STIRRUP HOOKS
(TIE BENDS SIMILAR)

SIZE	90°		135°	
	D	A OR G	A OR G	ARROX. H
#3	1 1/2"	4"	4"	2 1/2"
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"
#7	5 1/4"	14"	9"	5 1/4"
#8	6"	16"	10 1/2"	6"

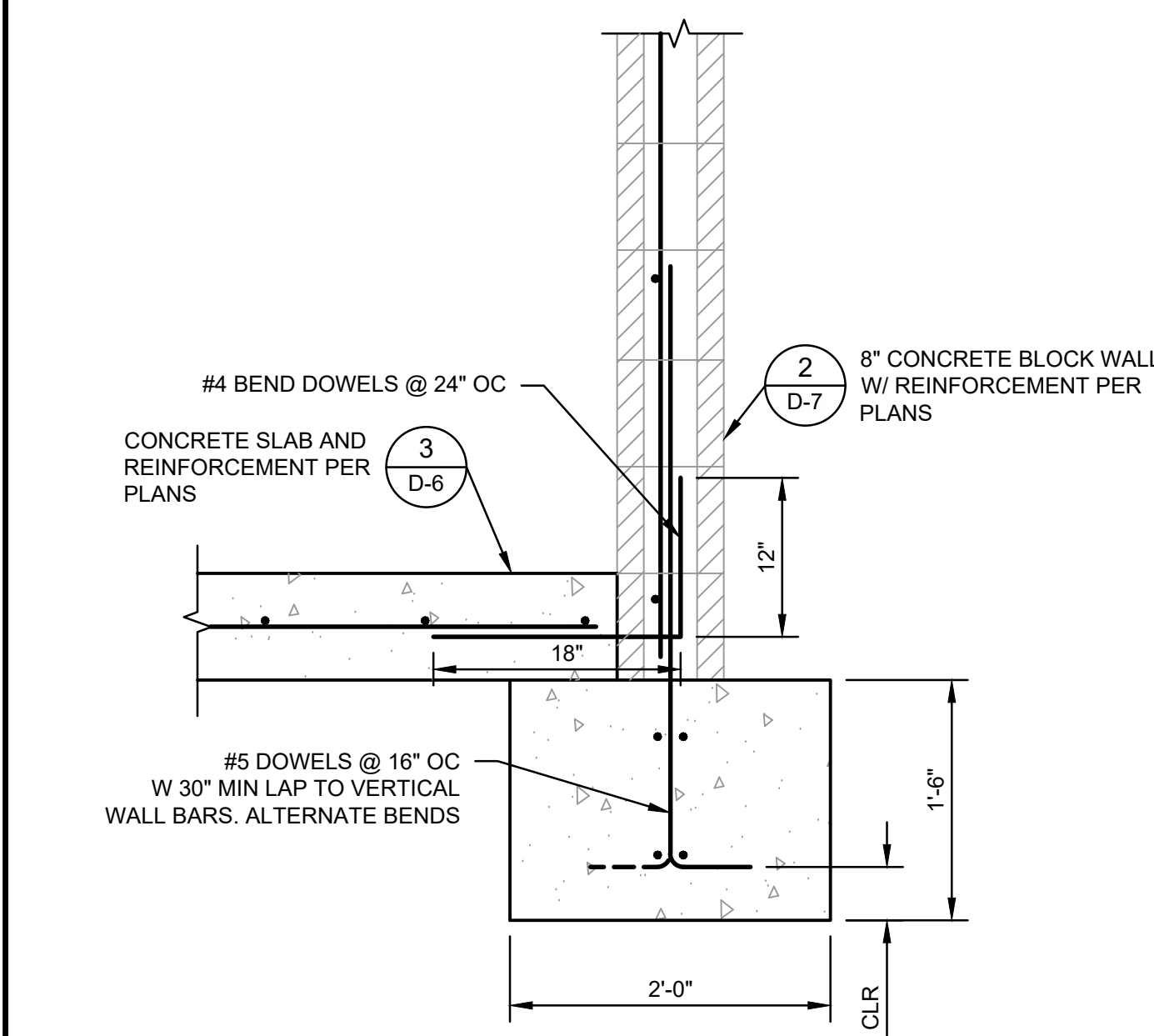
SPLICE LENGTH / Db (NO. OF BAR DIAMETERS)	CONCRETE STRENGTH (PSI)				
	2500	3000	3500	4000	5000
#6 AND SMALLER	63	57	53	50	45
#7-#11	78	72	66	62	56

1
D-6

REINFORCEMENT BENDS & SPLICES

2
D-6

EQUIPMENT PAD

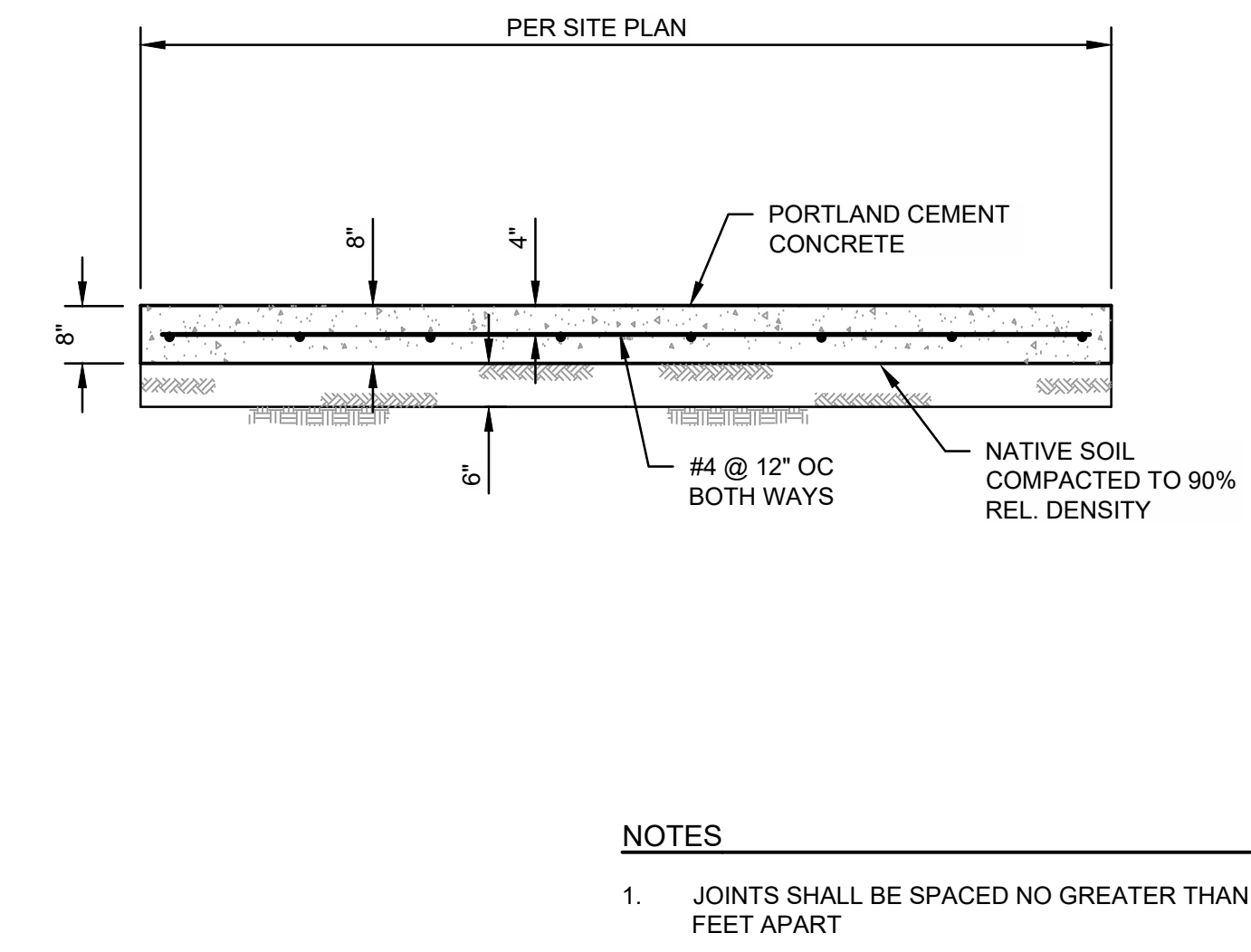


4
D-6

FOUNDATION

3
D-6

CONCRETE FLOOR SLAB



- NOTES
- JOINTS SHALL BE SPACED NO GREATER THAN 30 FEET APART

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ISSUED FOR BIDDING PURPOSES
DECEMBER 2024

RES. ENG. A.J.G. No. 91160
PROVOST & PRITCHARD
CIVIL ENGINEER
STATE OF CALIFORNIA

WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
DETAILS

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A.J.G.
LICENSE NO:
91160

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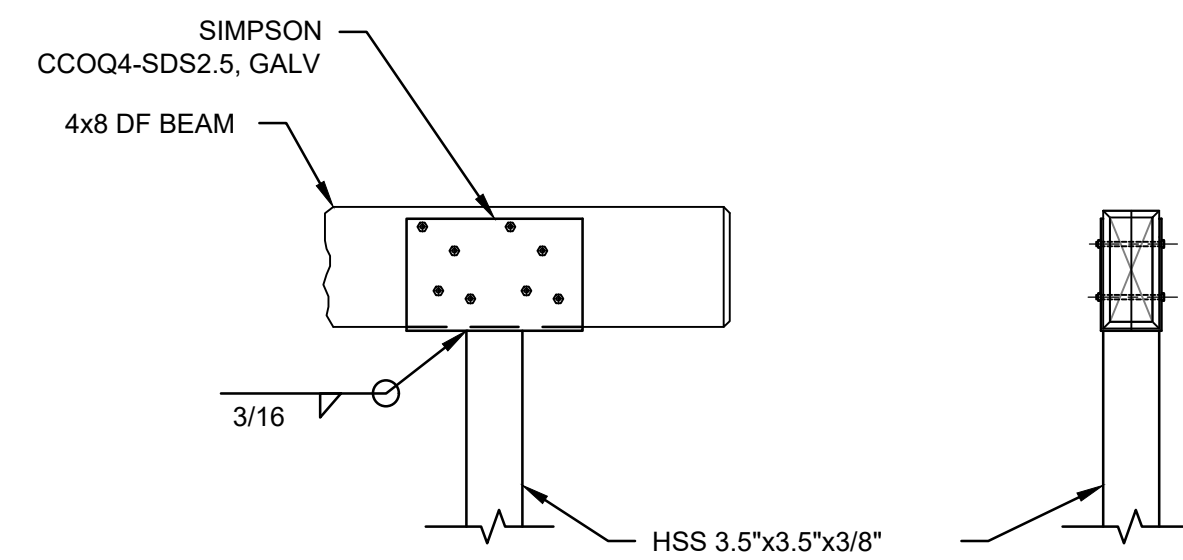
0 1"

ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET D-6

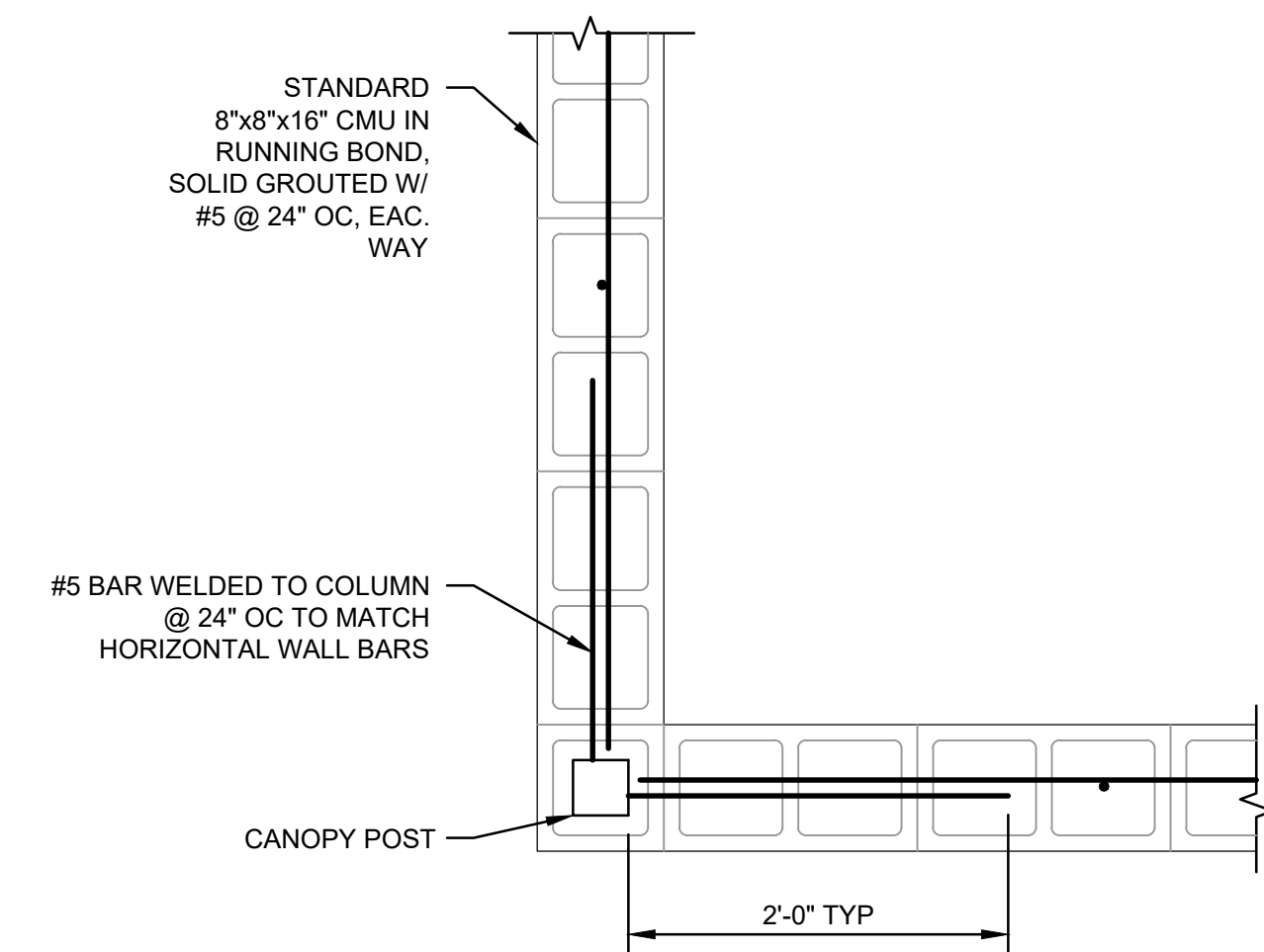
14 OF 35

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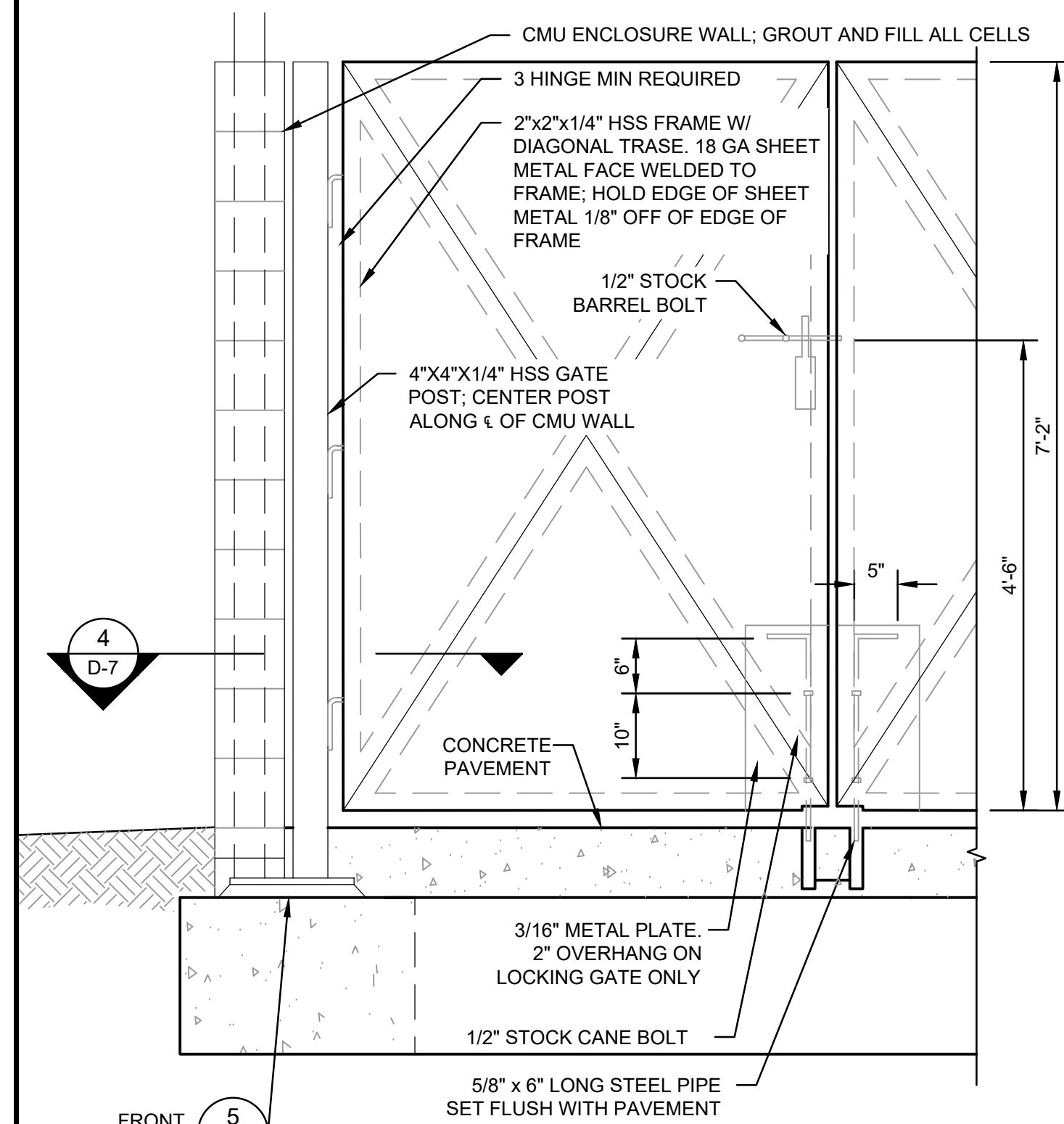
1
D-7
NOT TO SCALE

BEAM SADDLE



2
D-7
NOT TO SCALE

REINFORCEMENT AT CMU WALL

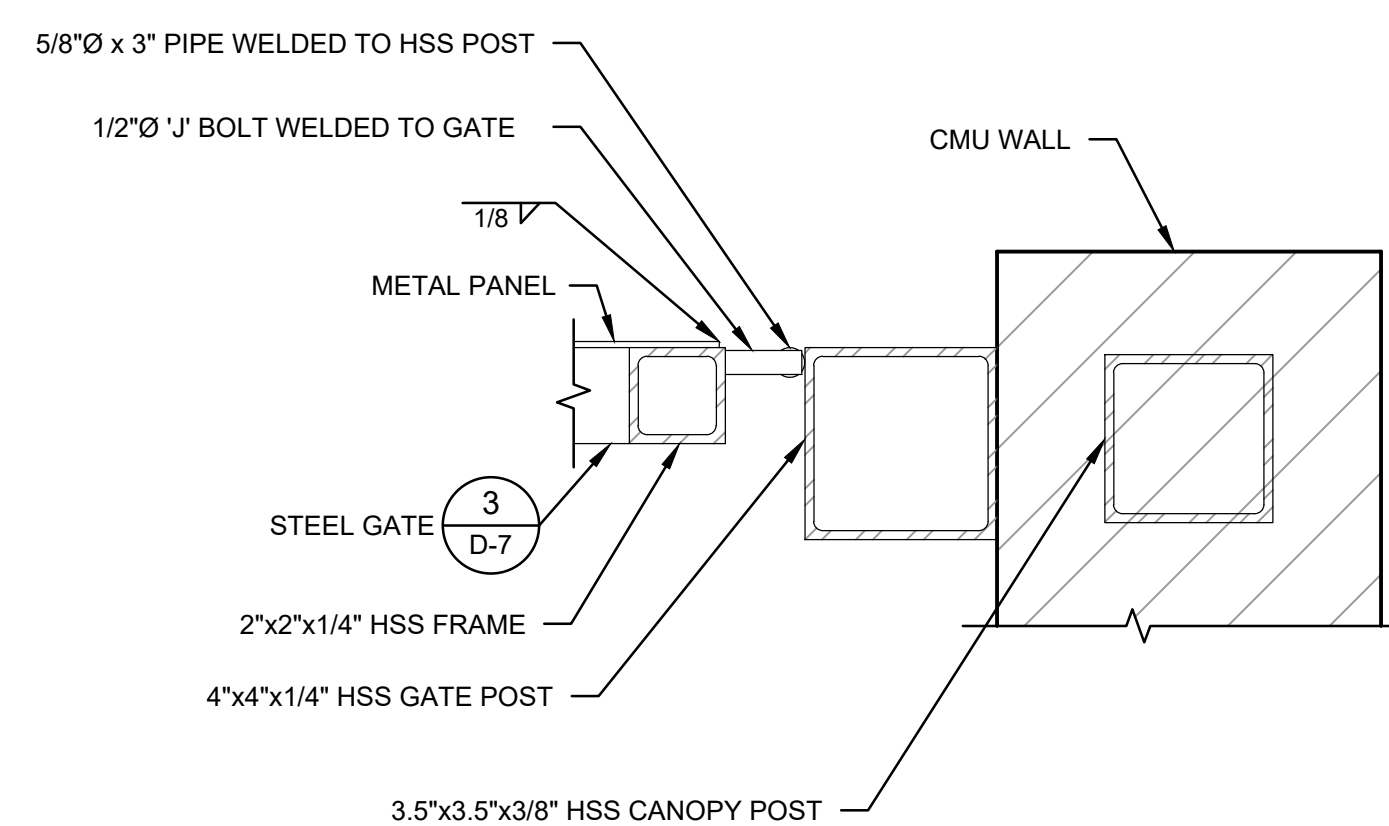


3
D-7
NOT TO SCALE

GATE/POST AT ENCLOSURE

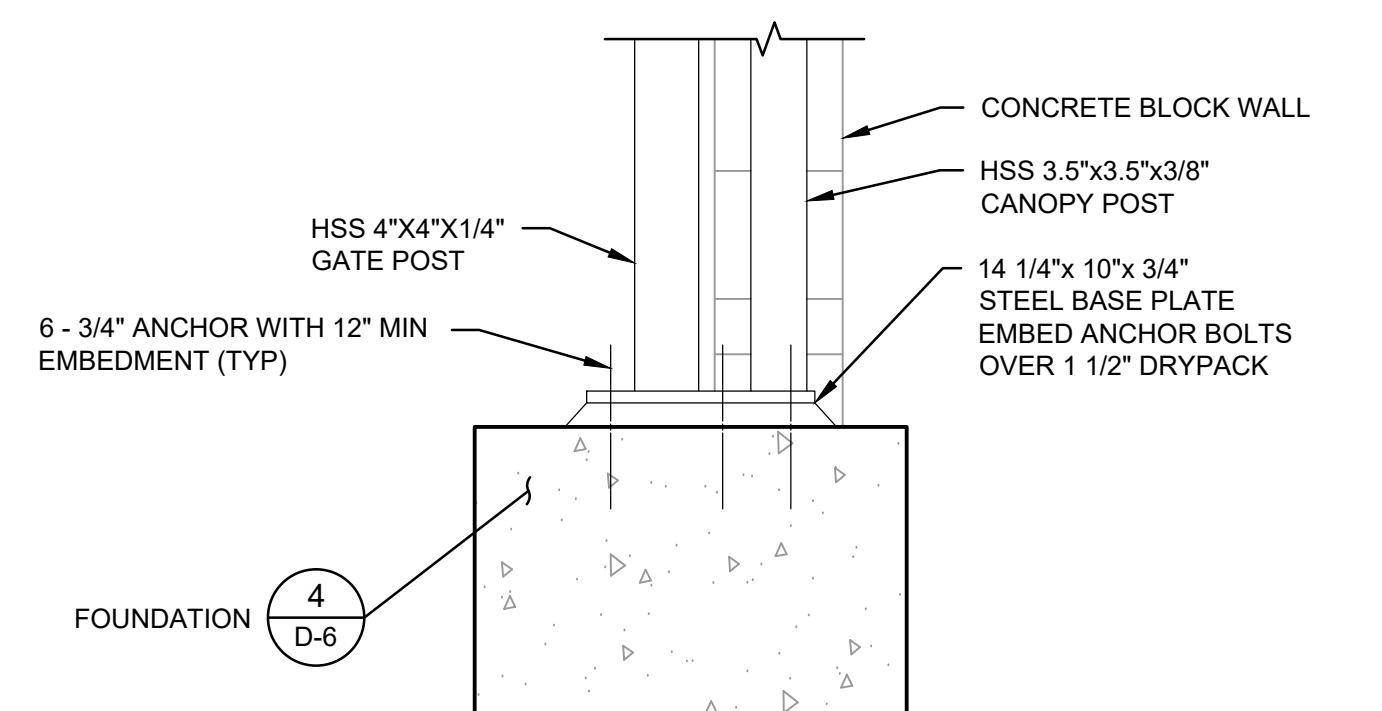
NOTES

1. SLIDE BOLT IS NOT REQUIRED.
2. CANE BOLT REQUIRED ON EACH GATE MOUNTED ON THE OUTSIDE.
3. 2" OVERHANG ON METAL PLATE IS REQUIRED



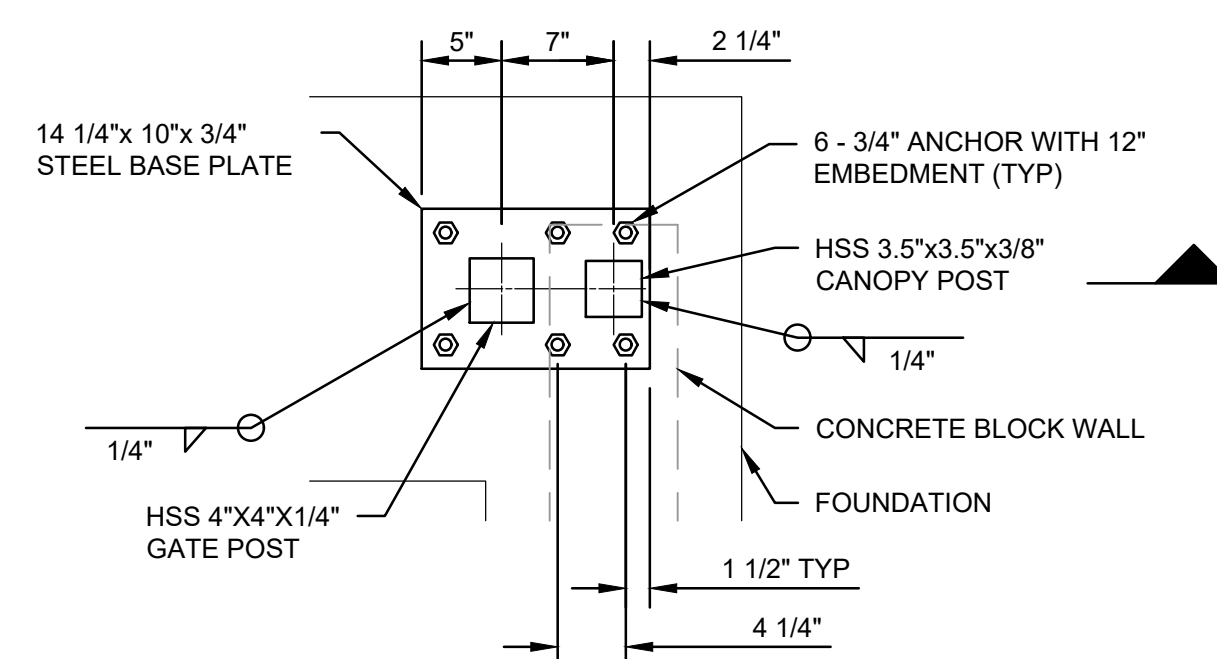
4
D-7
NOT TO SCALE

ENCLOSURE GATE



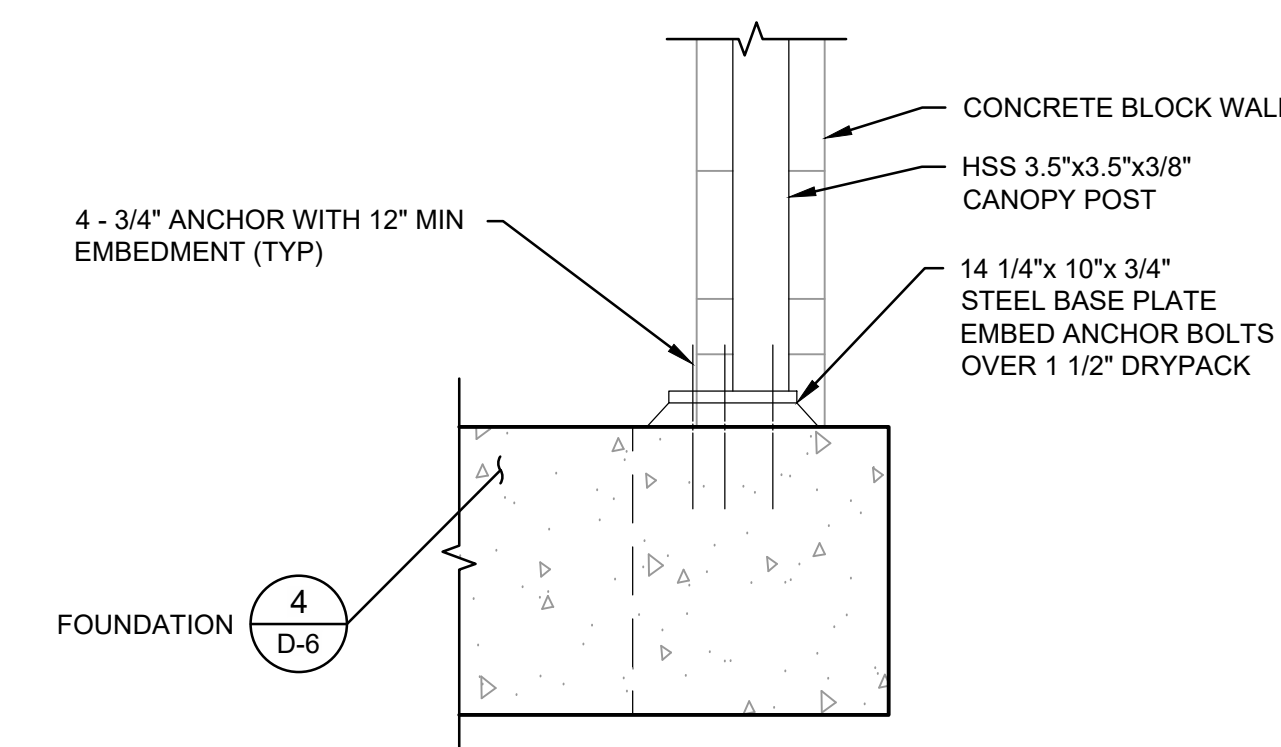
5
D-7
NOT TO SCALE

FOUNDATION AND FRONT SUPPORT



6
D-7
NOT TO SCALE

FOUNDATION AND REAR SUPPORT



ISSUED FOR BIDDING PURPOSES
DECEMBER 2024

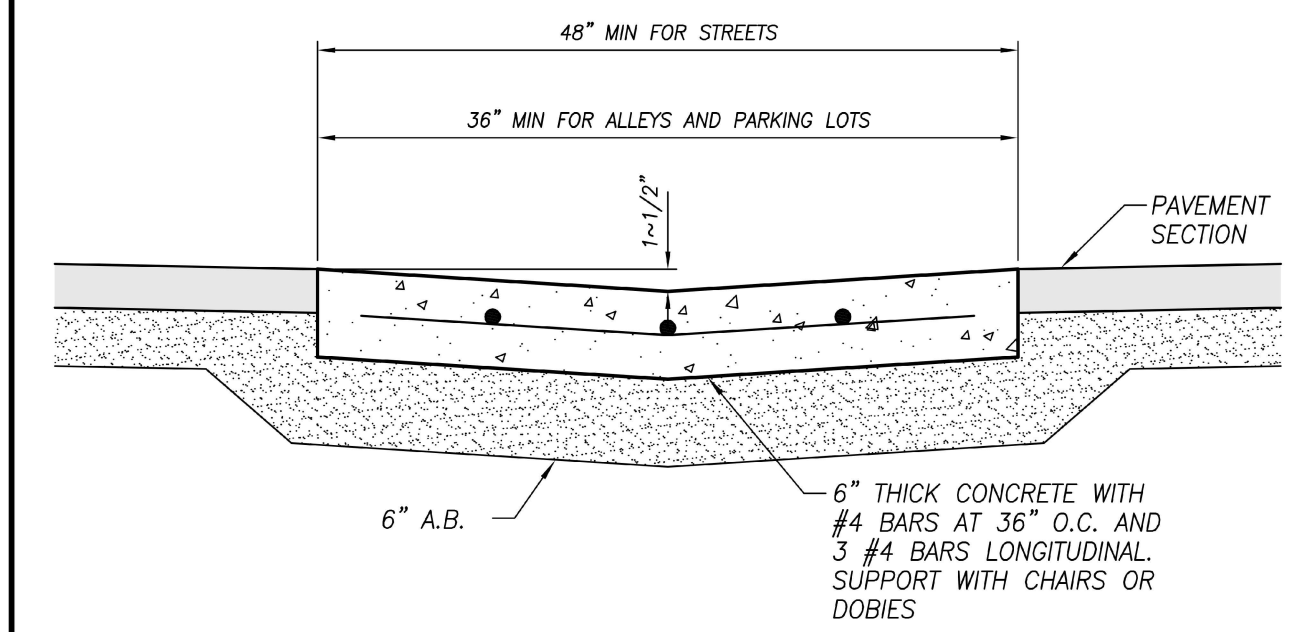
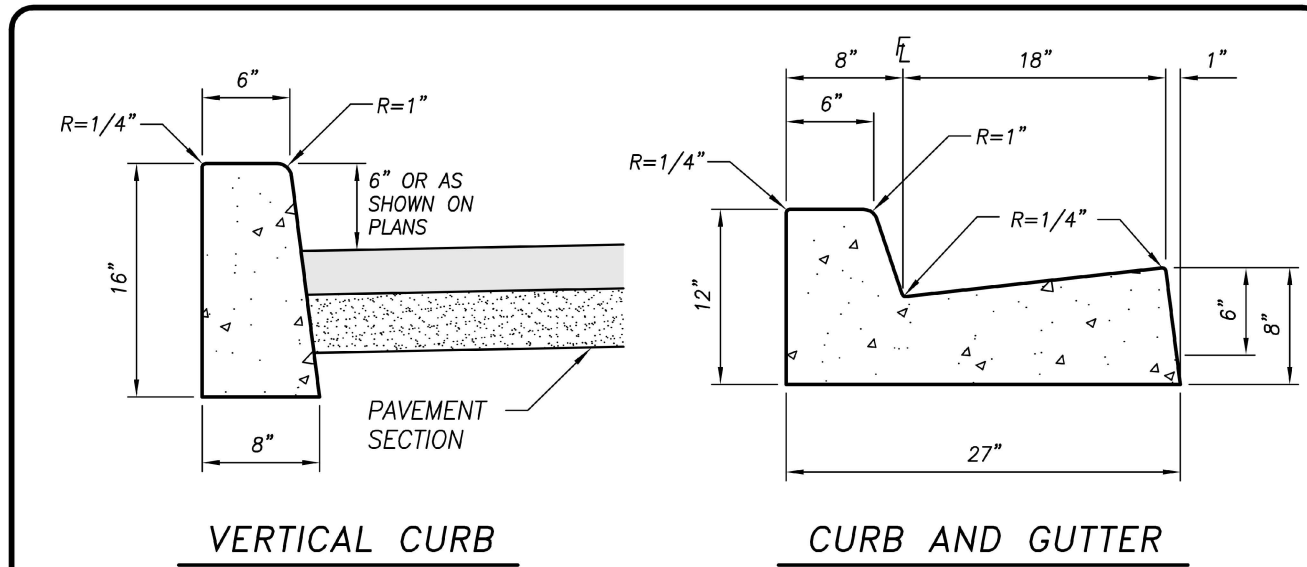
WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
DETAILS

STRUCTURAL DETAILS

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TURLOCK, CA 95354
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FAX (559) 448-2715
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A/JG
LICENSE NO:
91160
DRAFTED BY:
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CHECKED BY:
KMM
DATE: DECEMBER 2024
JOB NO: 229223003
PROJECT NO:
PHASE: CD
ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.
SHEET D-7
15 OF 35

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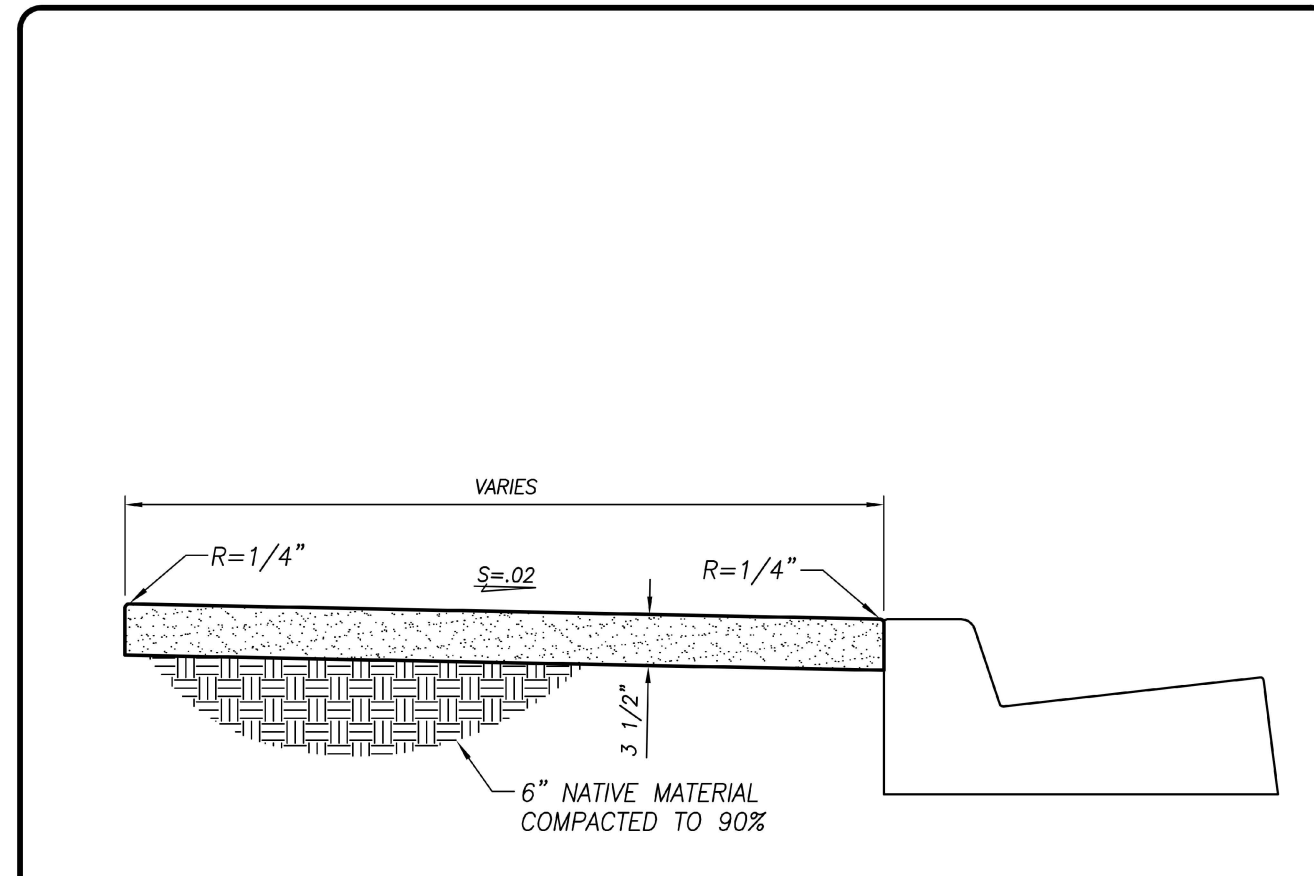
- NOTES:**
1. INSTALL WEAKENED PLANE JOINT AT 10' INTERVALS
 2. GUTTER FLOW LINES SHALL BE WATER TESTED FOR FLOW
 3. FLOW LINE OF GUTTERS SHALL SLOPE AT 0.20% MIN. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER

CURB AND GUTTERS
CITY OF TURLOCK

DRAWN BY: JSH
CHECK BY: NBB
SCALE: NONE

APPROVED BY: *M. Pritchard*
CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694

DRAWING NO. C-1
COUNCIL APPROVAL DEC, 2015



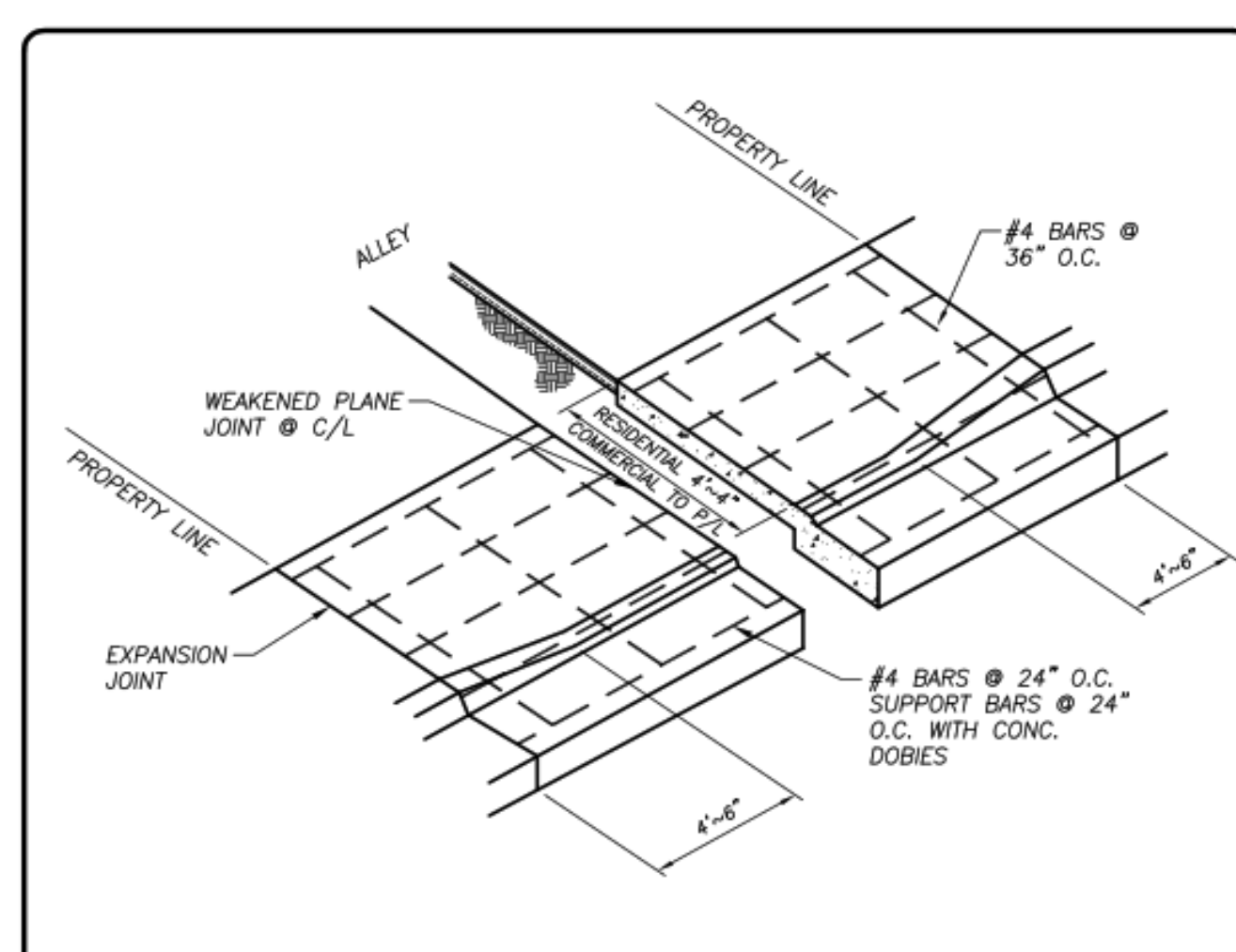
- NOTES:**
1. ALL CONCRETE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS
 2. SEE ST-1 FOR ADDITIONAL INFORMATION REGARDING SIDEWALK LOCATION
 3. SEE C-2 FOR LOCATIONS OF JOINTS AND SCORE MARKS
 4. PROVIDE MIN 48" OF CLEARANCE AROUND OBSTRUCTIONS. SEE C-4.

RESIDENTIAL AND COMMERCIAL SIDEWALK
CITY OF TURLOCK

DRAWN BY: JSH
CHECK BY: NBB
SCALE: NONE

APPROVED BY: *M. Pritchard*
CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694

DRAWING NO. C-3
COUNCIL APPROVAL DEC, 2015



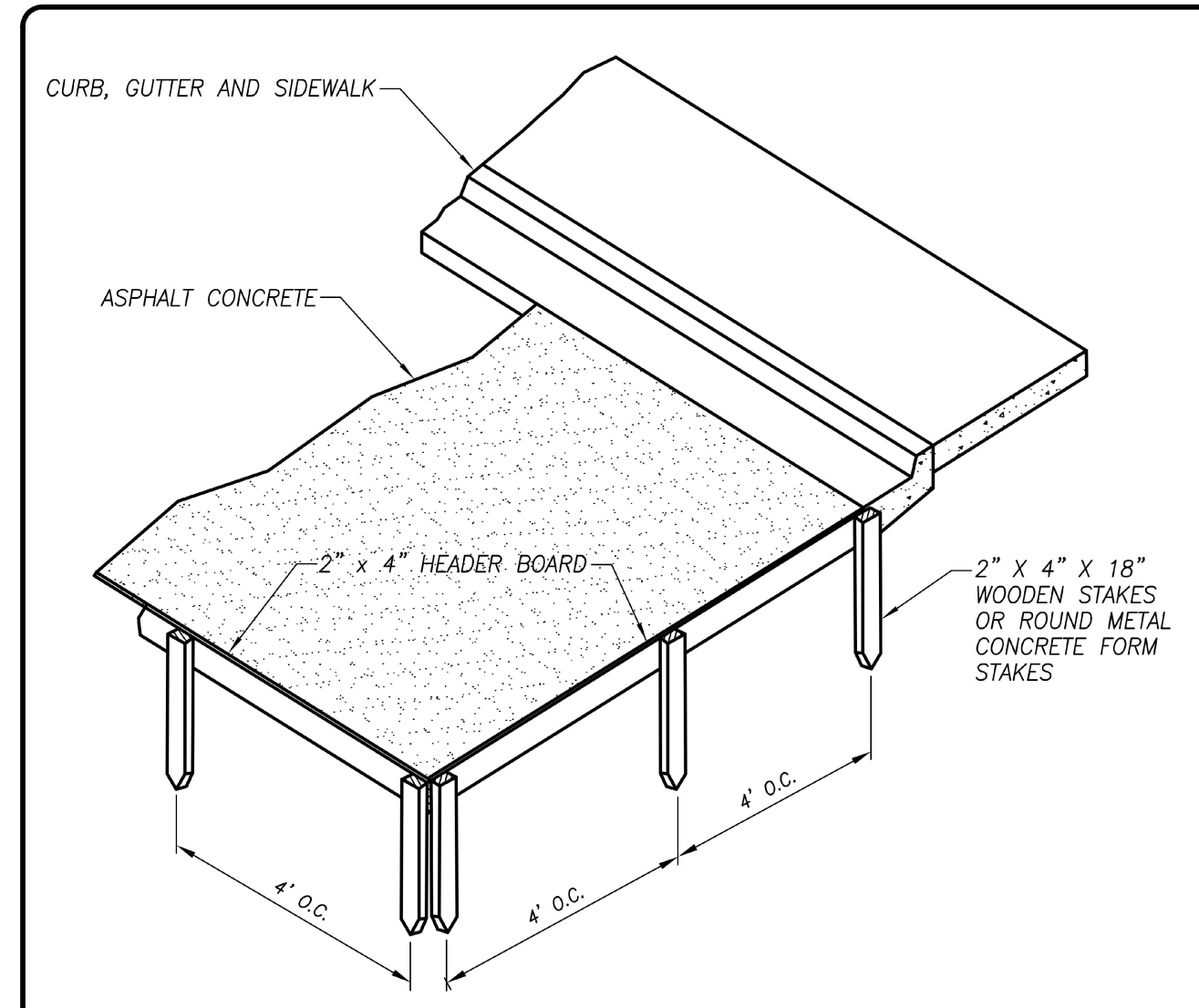
- NOTES:**
1. COMMERCIAL ALLEYS SHALL HAVE A SLOPE OF 1% MIN. AND A CROSS SLOPE OF 2% MAX.
 2. ALL ALLEY APPROACHES SHALL HAVE A MINIMUM THICKNESS OF 7-1/2".
 3. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
 4. GUTTER FLOW LINE & VALLEY GUTTER SHALL BE WATER TESTED FOR FLOW.
 5. FINISH GRADE AT BACK OF DRIVEWAY SHALL MATCH ALLEY PAVEMENT.
 6. WEAKENED PLANE JOINT SHALL BE 1-1/2" MIN. DEPTH AND 1/8" MAX. WIDTH.

ALLEY APPROACH
CITY OF TURLOCK

DRAWN BY: JSH
CHECK BY: NBB
SCALE: NONE

APPROVED BY: *M. Pritchard*
CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694

DRAWING NO. C-7
COUNCIL APPROVAL DEC, 2015



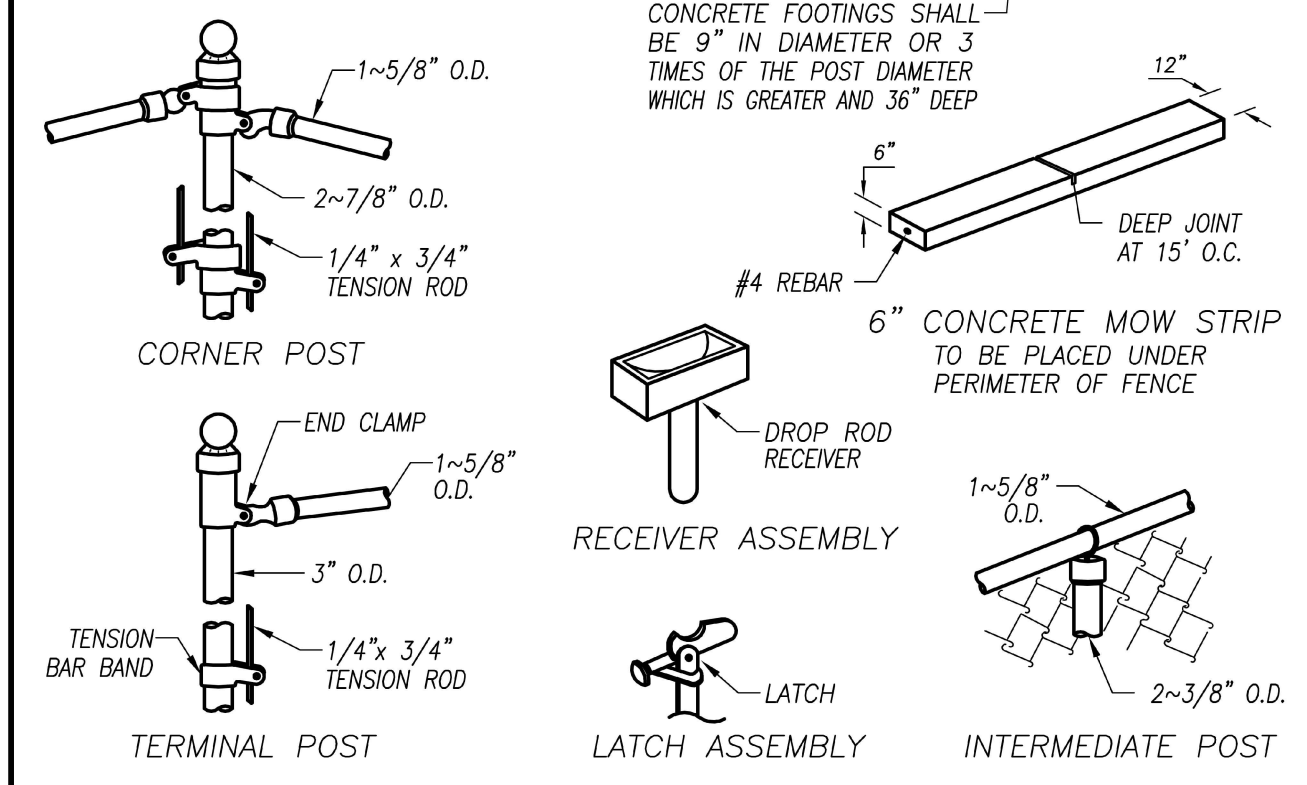
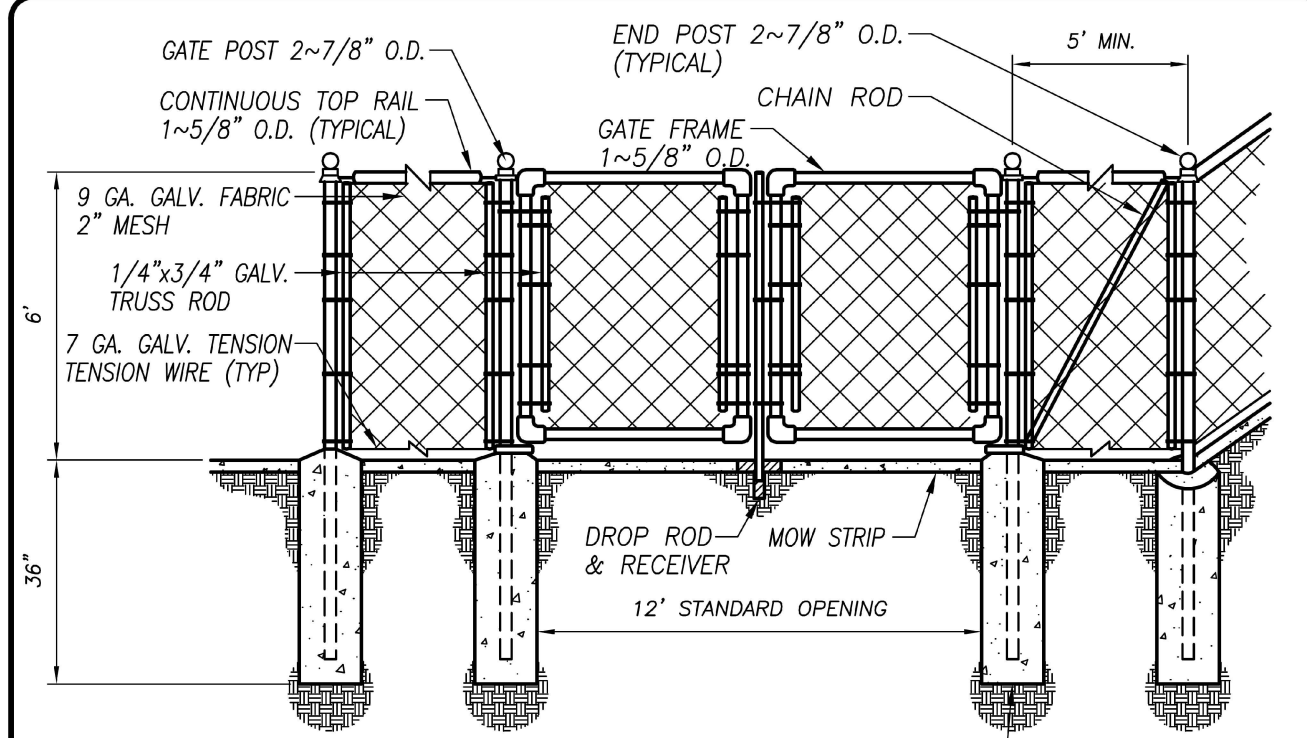
- NOTES:**
1. HEADER BOARD SHALL BE INSTALLED AT EDGES OF PAVEMENT EXCEPT WHERE JOINING EXISTING PAVEMENT.
 2. HEADER BOARD TO BE INSTALLED TO FINISHED GRADE AND BACK FILLED PRIOR TO PAVING OPERATIONS.
 3. HEADER BOARD SHALL BE PRESSURE-TREATED DOUGLAS FIR OR REDWOOD.
 4. 2" x 4" x 18" STAKES SHALL BE REDWOOD OR PRESSURE-TREATED DOUGLAS FIR.

HEADER BOARD
CITY OF TURLOCK

DRAWN BY: JSH
CHECK BY: NBB
SCALE: NONE

APPROVED BY: *M. Pritchard*
CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694

DRAWING NO. ST-6
COUNCIL APPROVAL DEC, 2015



FENCE DETAILS
CITY OF TURLOCK

DRAWN BY: JSH
CHECK BY: NBB
SCALE: NONE

APPROVED BY: *M. Pritchard*
CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694

DRAWING NO. M-6
COUNCIL APPROVAL DEC, 2015

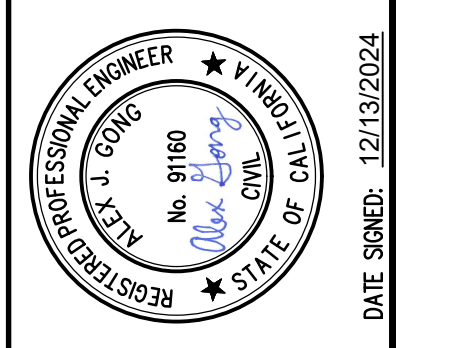
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ISSUED FOR BIDDING PURPOSES
DECEMBER 2024

NO. BY DATE

REVISION

DATE SIGNED: 12/13/2024



WELL 29 CHLORINATION
CITY OF TURLOCK
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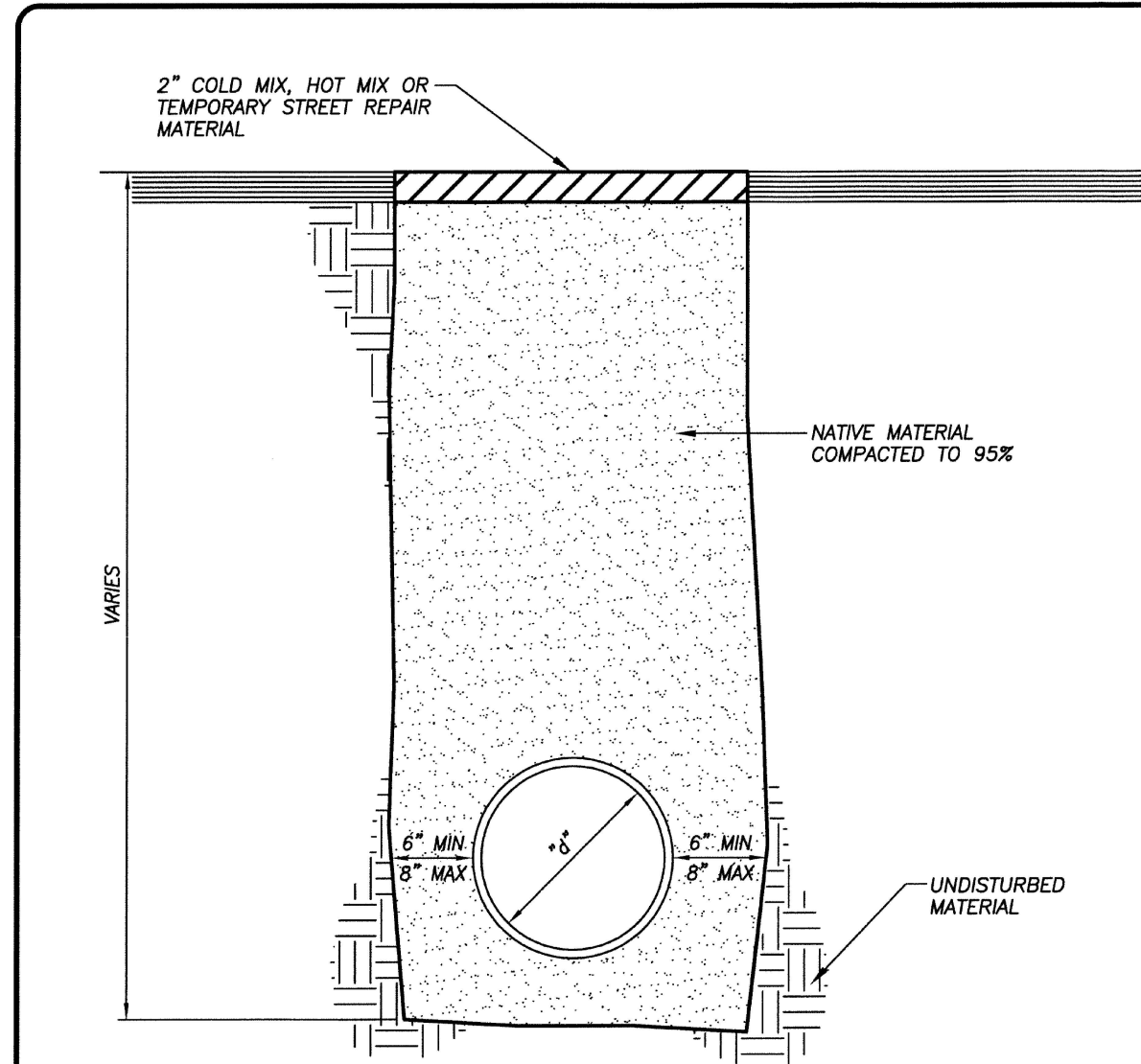
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PHASE: CD

0 1"
INCH ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

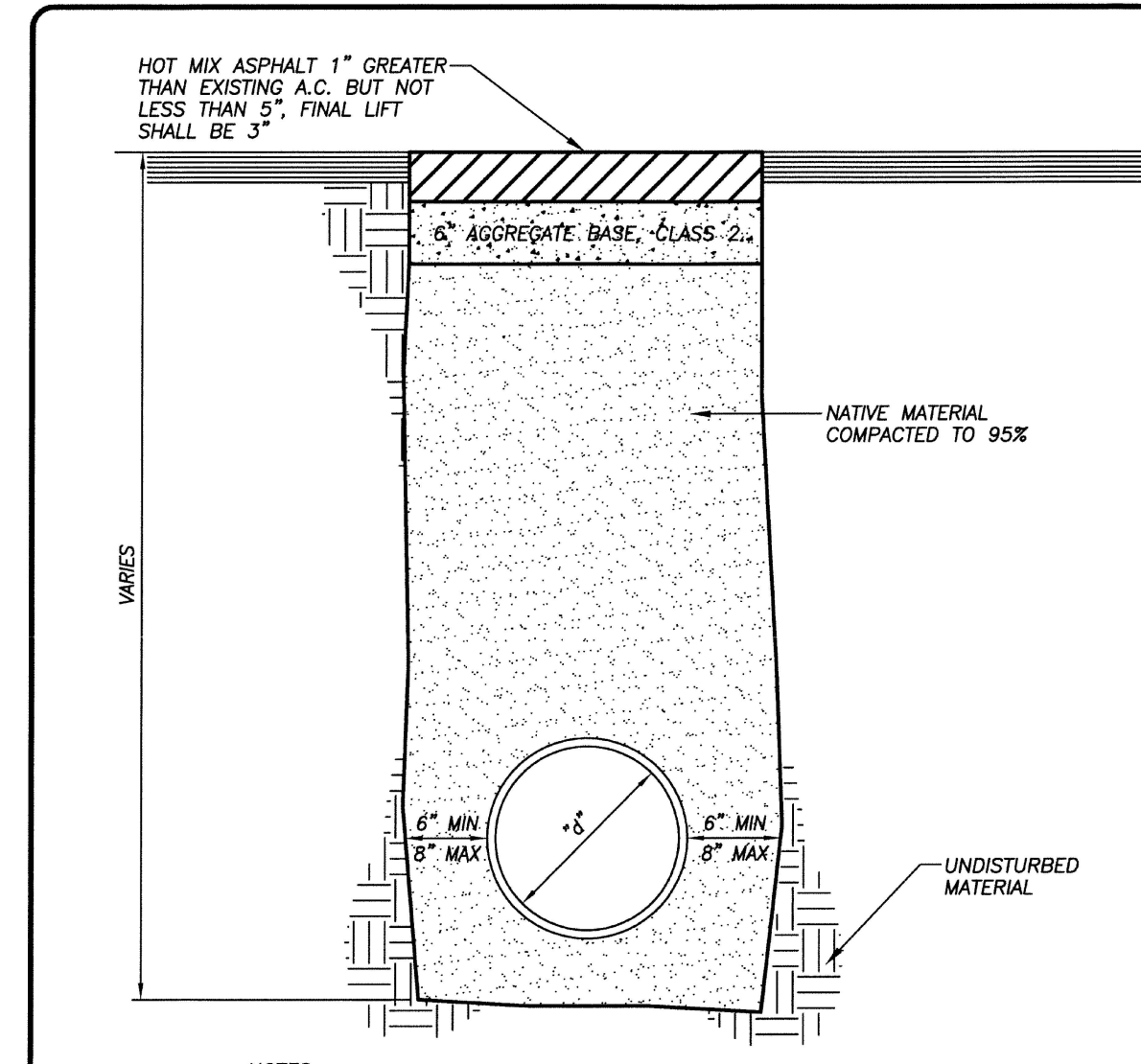
SHEET **D-8**



- NOTES:
1. COMPACTION TESTS SHALL BE APPROVED BY THE CITY BEFORE PAVING.
 2. TRENCHES 5 FEET OR MORE IN DEPTH SHALL BE SHORED.
 3. MAXIMUM LIFT THICKNESS FOR BEDDING AND BACKFILL SHALL BE 12" BEFORE COMPACTION.
 4. TRENCHES WHICH ARE LESS THAN 30" IN DEPTH OR LESS THAN 18" IN WIDTH SHALL BE BACKFILLED WITH TWO SACK CEMENT SLURRY.
 5. ALL STEPS OF TRENCHING SHALL BE REPEATED WHEN REPAIRING A SECTION OF PIPE.

3 STEP TRENCH REPAIR ~ STEP 1
CITY OF TURLOCK

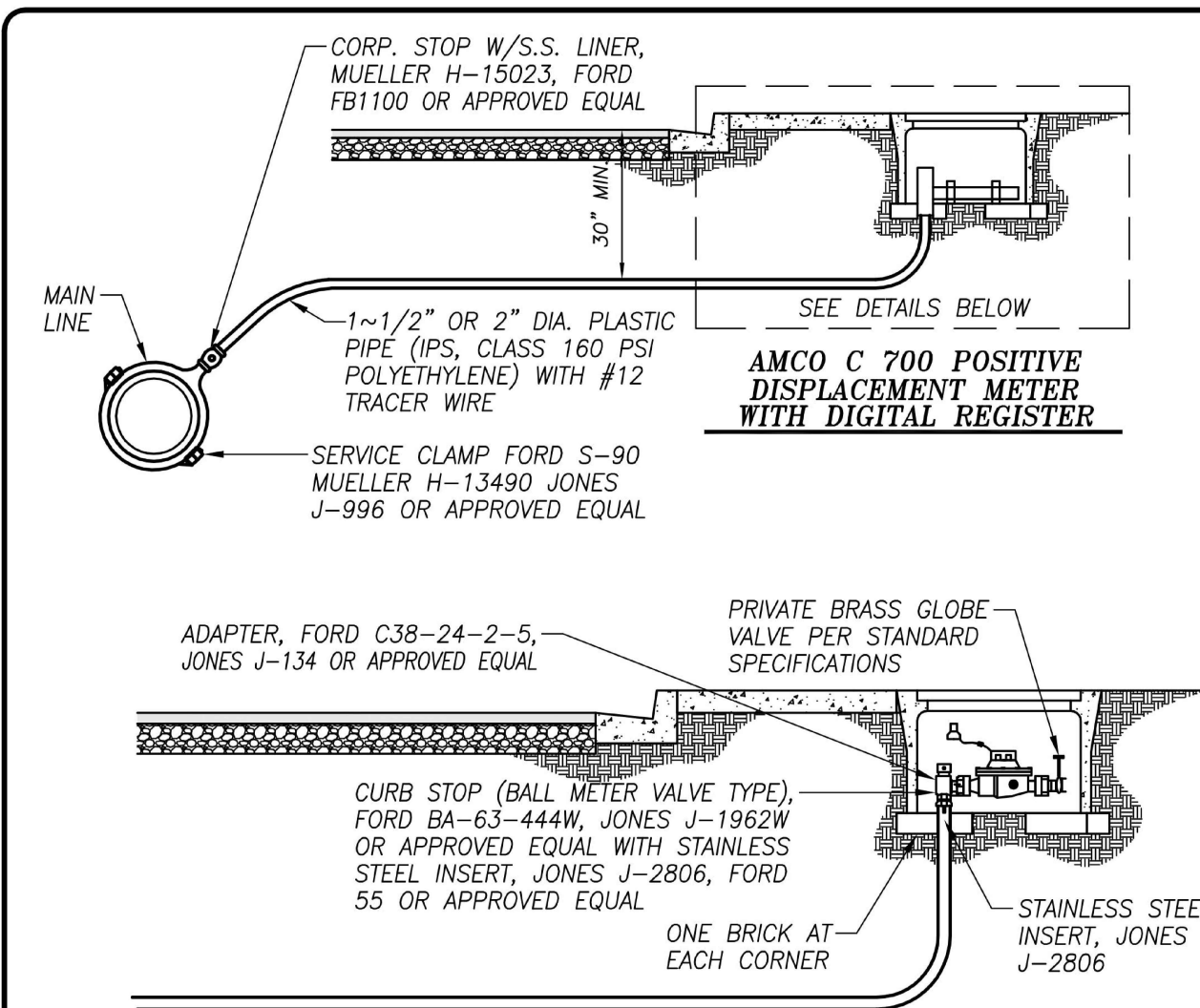
DRAWN BY: JSH	APPROVED BY: <i>[Signature]</i>	DRAWING NO. T-1
CHECK BY: NBB	INTERIM CITY ENGINEER - NATHAN B. BRAY - RCE 76842	COUNCIL APPROVAL FEB, 2019
SCALE: NONE		



- NOTES:
1. STEP 1 MAY BE OMITTED IF STEP 2 IS PERFORMED SAME DAY AS TRENCH EXCAVATION
 2. COMPACTION TESTS SHALL BE APPROVED BY THE CITY BEFORE PAVING.
 3. TRENCHES 5 FEET OR MORE IN DEPTH SHALL BE SHORED.
 4. MAXIMUM LIFT THICKNESS FOR BEDDING AND BACKFILL SHALL BE 12" BEFORE COMPACTION.
 5. TRENCHES WHICH ARE LESS THAN 30" IN DEPTH OR LESS THAN 18" IN WIDTH SHALL BE BACKFILLED WITH TWO SACK CEMENT SLURRY.
 6. ALL STEPS OF TRENCHING SHALL BE REPEATED WHEN REPAIRING A SECTION OF PIPE.
 7. HMA SHALL BE PG 64-10, TYPE A

3 STEP TRENCH REPAIR ~ STEP 2
CITY OF TURLOCK

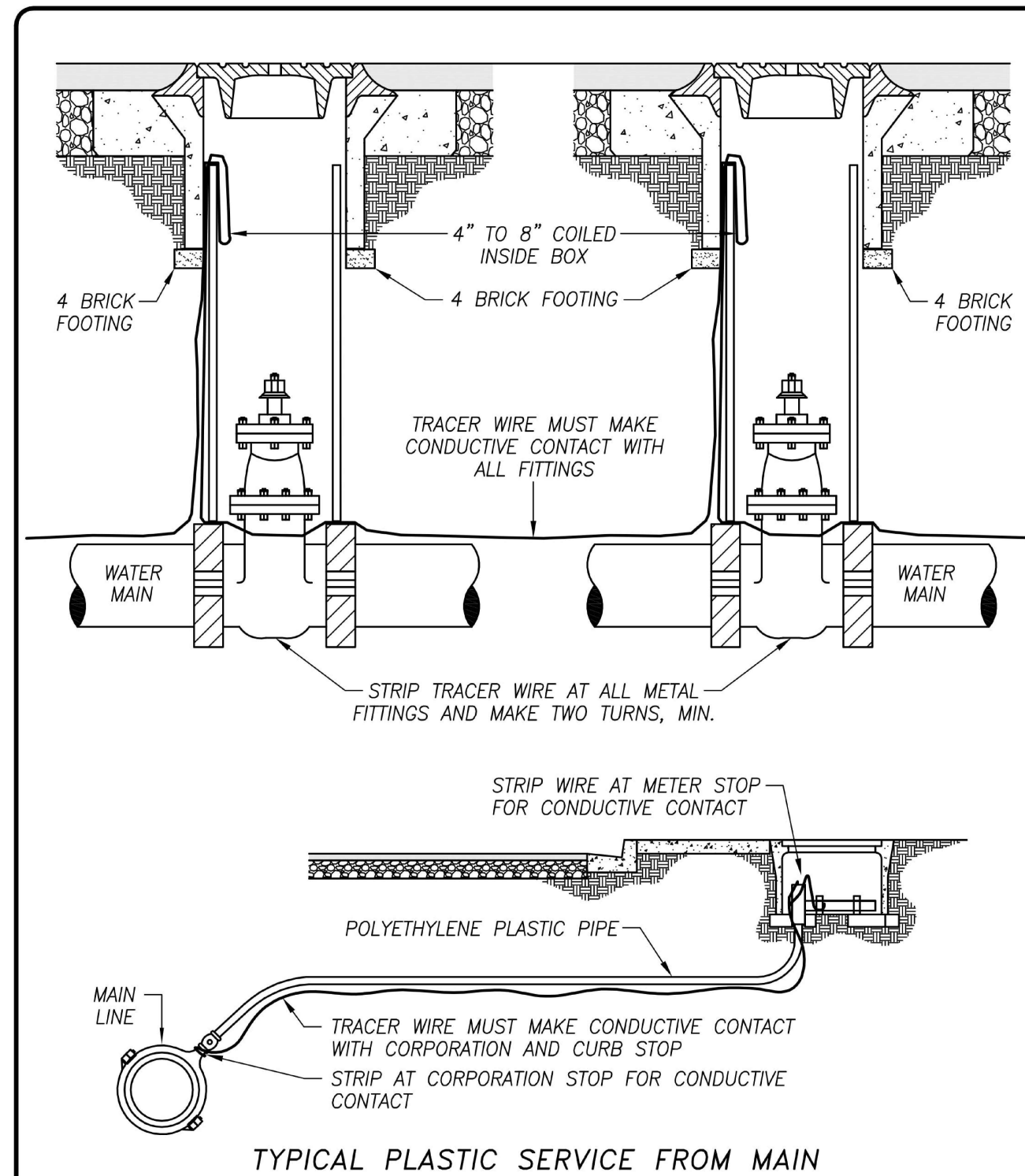
DRAWN BY: JSH	APPROVED BY: <i>[Signature]</i>	DRAWING NO. T-2
CHECK BY: NBB	INTERIM CITY ENGINEER - NATHAN B. BRAY - RCE 76842	COUNCIL APPROVAL FEB, 2019
SCALE: NONE		



- *BFA 43-777W
- NOTES:
1. ALL BOX COVERS SHALL BE SET TO GRADE AND SHALL NOT BE SITUATED IN DRIVEWAYS.
 2. METER STOP SHALL VARY BETWEEN 6" AND 10" FROM BOTTOM OF LID.
 3. POLYETHYLENE PLASTIC OR PLOYMER CONCRETE VALVE BOX AND LID SHALL BE USED.
 4. A "W", 3" HIGH, SHALL BE STAMPED OR CHISELED ON THE CURB FACE OVER SERVICE LINES.
 5. PLACE A #12 TRACER WIRE IN THE SERVICE TRENCH TO MAKE CONDUCTIVE CONTACT WITH THE CORPORATION AND CURB (METER) STOP.

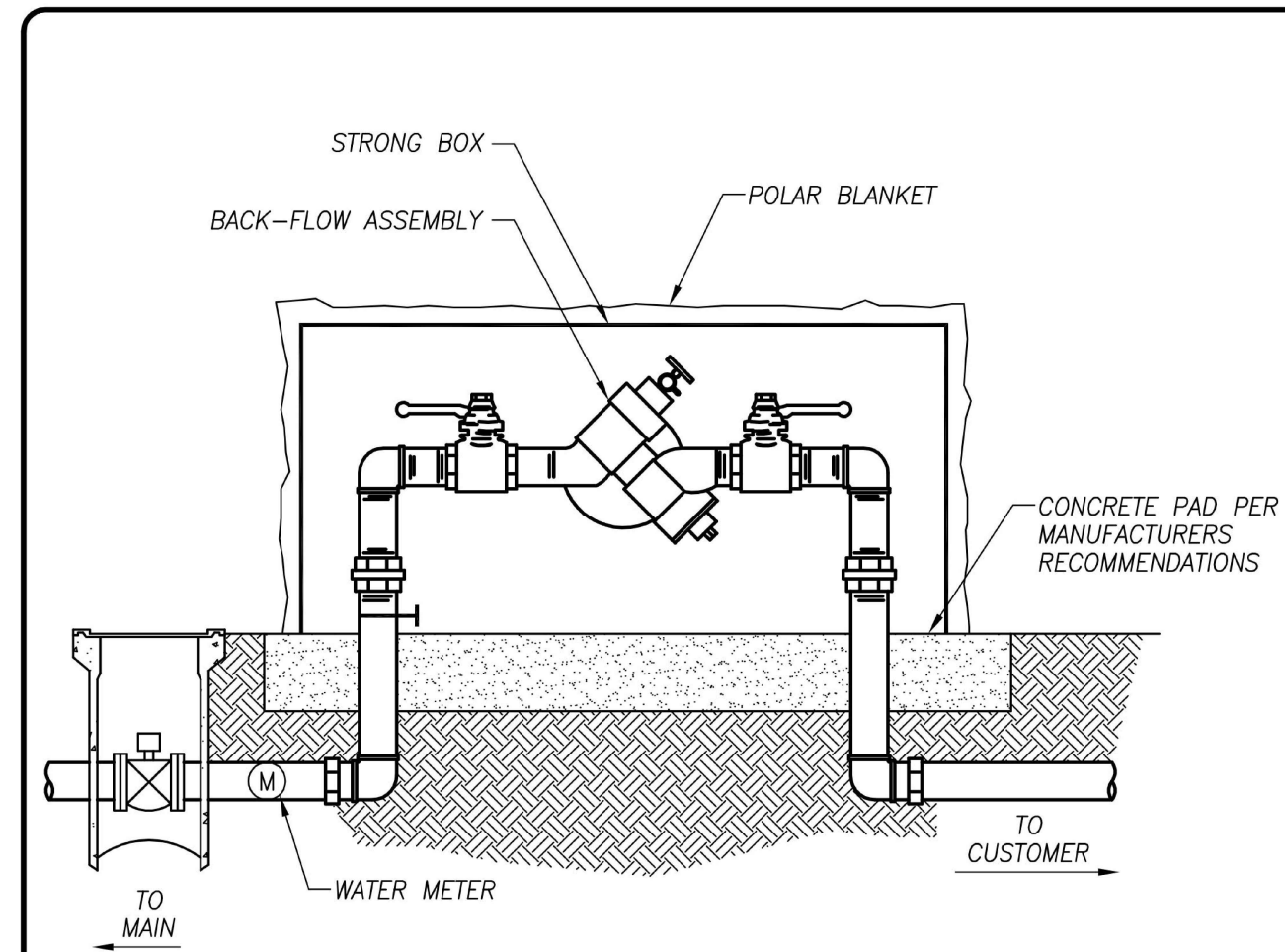
1~1/2" OR 2" PLASTIC WATER SERVICE CONNECTION
CITY OF TURLOCK

DRAWN BY: JSH	APPROVED BY: <i>[Signature]</i>	DRAWING NO. W-10
CHECK BY: NBB	CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694	COUNCIL APPROVAL DEC, 2015
SCALE: NONE		



TYPICAL TRACER WIRE INSTALLATION
CITY OF TURLOCK

DRAWN BY: JSH	APPROVED BY: <i>[Signature]</i>	DRAWING NO. W-11
CHECK BY: NBB	CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694	COUNCIL APPROVAL DEC, 2015
SCALE: NONE		



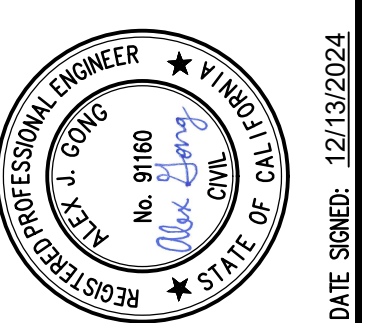
- NOTES:
1. FOR INSTALLATIONS LESS THAN 3"
 2. EQUIPMENT TO BE INSTALLED AT A MINIMUM OF 24" FROM ANY STRUCTURES OR HARDSCAPING.
 3. COVER BACKFLOW ASSEMBLY WITH POLAR BLANKET TO PREVENT FREEZE DAMAGE.
 4. ENCLOSE ENTIRE BACKFLOW DEVICE WITH STRONG BOX BC-45-CR OR APPROVED EQUAL WHEN UNIT IS NEXT TO A STRUCTURE (I.E. WALL, BUILDING, ETC.) MOUNT TEST COCKS ON OPEN OR NON STRUCTURE SIDE.
 5. ALL FITTINGS SHALL COMPLY WITH CALIFORNIA HEALTH AND SAFETY CODE, 116875 (NO LEAD BRASS)

BACKFLOW PREVENTER ASSEMBLY DETAIL
CITY OF TURLOCK

DRAWN BY: JSH	APPROVED BY: <i>[Signature]</i>	DRAWING NO. W-13
CHECK BY: NBB	CITY ENGINEER - MICHAEL G. PITCOCK - RCE 52694	COUNCIL APPROVAL DEC, 2015
SCALE: NONE		

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DECEMBER 2024



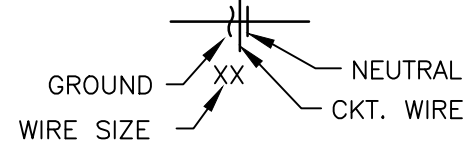
WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
DETAILS
CITY STANDARD DETAILS

PROVOST & PRITCHARD
425 W. FIFTH AVENUE
CITY OF TURLOCK, CA 95226
PHONE (530) 449-2700
FAX (530) 449-2715
www.provostandpritchard.com

DESIGN ENGINEER: AJG
LICENSE NO: 91160
DRAFTED BY: ENA
CHECKED BY: KMM
DATE: DECEMBER 2024
JOB NO: 229223003
PROJECT NO:
PHASE: CD
0 1"
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.
SHEET D-9

GENERAL ELECTRICAL LEGEND

- CONCRETE PULL BOX -SIZE AS NOTED - LIDS AS NOTED 'P' POWER, 'S' SIGNAL, 'F' FIRE ALARM & 'D' DATA; '-T' DENOTES TRAFFIC LID
- CONDUIT -SURFACE MOUNTED OR ABOVE CEILING -EMT WITH COMPRESSION FITTING UNLESS NOTED ON PLANS
- CONDUIT -CONCEALED BELOW FLOOR IN EMT OR UNDERGROUND IN PVC SCH 40 WITH IMC ELBOWS
- HOMERUN TO PERSPECTIVE PANEL OR CABINET -BRANCH CIRCUIT WITH OUT FURTHER DESIGNATION IS A #12 WIRE CIRCUIT
- FLEX
- TERMINAL CABINET
- PANEL BOARD -SEE SCHEDULE
- MOTOR/EXHAUST FAN -N.I.E.S. -CONNECT AS REQUIRED
- DUPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
- QUADPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
- HALF SWITCHED DUPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
- HALF SWITCHED QUADPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
- FLOOR POWER RECEPTACLE -WALKER OR EQUAL
- 30A. -4 WIRE GROUND RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
- GFCI DUPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
- GFCI QUADPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
- EQUIPMENT AND/OR CONTROL CONNECTION POINT. MAKE CONNECTION TO EQUIPMENT AS REQUIRED.
- JUNCTION BOX - SINGLE GANG.
- MOTOR RATED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH -SIZE AS NOTED -30A. SHOWN
- FULL VOLTAGE STARTER -SIZE AS NOTED -SIZE 3 SHOWN
- PLUG LOAD ROOM CONTROLLER. WATTSTOPPER #LMPL-101 OR EQUAL



ELECTRICAL COMPLIANCE NOTES

THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO CONSTRUCT THE PROPOSED BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR
BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR
BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR
BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC)
2022 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR
BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC)
2022 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR
BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC)
2022 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE
v/ CALIFORNIA AMENDMENTS.

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

GENERAL ELECTRICAL NOTES

- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND ALL PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE COMPLETE AND OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
- UNDERWRITERS LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE.
- CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE AS NOTED ON CONSTRUCTION DOCUMENTS.
- ALL CONDUITS SHALL BE SUPPORTED AND BRACED PER OPM #OPM-0052-13, THE "B-LINE/TOLCO SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES" FOR PIPES AND CONDUITS ONLY. LAYOUT DRAWINGS, SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS FOR PIPING/DUCTS/CONDUITS EXCEPT FIRE SPRINKLERS, NEED TO BE SUBMITTED FOR USE BY THE IOR AND OSHPD STAFF. THE LAYOUT DRAWINGS NEED TO BE REVIEWED AND ACCEPTED BY THE AOR AND SECOR PRIOR TO STARTING INSTALLATION OF THE BRACING/SUPPORT. IOR SHALL ENSURE THE ABOVE REQUIREMENTS ARE SATISFIED.
- DO NOT PENETRATE STRUCTURAL MEMBERS, INCLUDING BEAMS, COLUMNS, OR FOOTINGS, WITHOUT PRIOR WRITTEN CONSENT OF THE DISTRICT'S STRUCTURAL ENGINEER. SHOULD IT BECOME NECESSARY TO PENETRATE SUCH MEMBERS, NOTIFY THE DISTRICT IN WRITING WITHOUT DELAY, PRIOR TO PROCEEDING WITH CONSTRUCTION AROUND SUCH MEMBERS.
- ALL ELECTRICAL WORK SHALL CONFORM WITH THE 2022 CALIF. ELECTRICAL CODE CALIFORNIA TITLE 17, 19 & 24 ALONG WITH N.F.P.A. STANDARDS AND THE STATE FIRE MARSHAL'S REQUIREMENTS.
- ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF STATE & GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
- WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
- WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO PUBLIC AND TO OCCUPANTS OF EXISTING BUILDING.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDOUS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
- CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
- OPERATED DEVICES SUCH AS, BUT NOT LIMITED TO, TELE/DATA OUTLETS, RECEPTACLE OUTLETS AND LIGHT SWITCHES INSTALLED IN AREAS NOT RESTRICTED TO AUTHORIZED MAINTENANCE PERSONAL SHALL BE MOUNTED AT A MINIMUM OF +15" AFF., AS MEASURED FROM THE BOTTOM OF THE DEVICE OUTLET BOX, AND MAXIMUM OF +48" AFF., AS MEASURED FROM THE TOP OF THE DEVICE OUTLET BOX.
- ALL CHANGE ORDER PROPOSALS AND CHANGE ORDERS, BOTH ADDITIVE AND DEDUCTIVE, SHALL BE BASED UPON AND BE ACCOMPANIED BY A DETAILED MATERIALS AND LABOR BREAKDOWN FOR EACH SPECIFIC TASK AND/OR ITEM. THE BREAKDOWN SHALL INCLUDE ACTUAL MATERIALS COSTS PLUS OVERHEAD AND PROFIT, AS WELL AS LABOR UNITS BASE UPON THE MOST RECENT NECA MANUAL OF LABOR UNITS (NECA INDEX #4090) OR EQUIVALENT PUBLICATION FOR EACH SPECIFIC TASK AND ITEM. LABOR COSTS SHALL BE COMPUTED AS OUTLINED WITHIN THE GENERAL CONDITIONS, BASED UPON THE NECA LABOR TABLES FOR EACH TASK REQUIRED. MATERIALS COSTS SHALL INCLUDE ACTUAL CONTRACTOR INVOICE PLUS NO MORE THAN 15% MARKUP. THE OWNER AND CONTRACTOR AGREE TO THE ABOVE CHANGE ORDER COST PROCEDURE, FOR BOTH ADDITIVE AND DEDUCTIVE CHANGE ORDERS.
- ALL PERSONNEL WORKING WITH ENERGIZED EQUIPMENT WITHIN THE RESTRICTED ZONE PER NFPA-70E SHALL COMPLY WITH ALL NFPA-70E AND OSHA REQUIREMENTS AND BE ARC FLASH SAFETY CERTIFIED.



ELECTRICAL ABBREVIATIONS

Δ	DELTA CONNECTED	CATV	CABLE TELEVISION	ENCL	ENCLOSURE	IDF	INTERMEDIATE DISTRIBUTION FRAME	MIN	MINIMUM	PS	PRESSURE SWITCH	TH	THERMOSTAT
Y	WYE CONNECTED	CKT	CIRCUIT	EP	EXPLOSION PROOF	INCAN	INCANDESCENT	MPOE	MAIN POINT OF ENTRY	PWR	POWER	TRANSF	TRANSFORMER
0	PHASE	CLG	CEILING	EQUIP	EQUIPMENT	IDC	INITIATING DEVICE CIRCUIT	MSB	MAIN SWITCHBOARD	(R)	REMOVE(D)	TYP	TYPICAL
&	AND	CO	CONDUIT ONLY	ETC	ET CETERA	IN	INCHES	N	NEUTRAL	RA	REMOTE ANNUNCIATOR	TSP	TWISTED SHIELDED PAIR
⊙	AT	COMM	COMMUNICATION	EVAP	EVAPORATOR	INST	INSTANTANEOUS	(N)	NEW	RD	ROAD	THRU	THROUGH
'	FEET	CONC	CONCRETE	(F)	FUTURE	J	JUNCTION BOX	NA	NON-AUTOMATIC	REQD	REQUIRED	UG	UNDERGROUND
"	INCHES	CONN	CONNECT	FA	FIRE ALARM	KV	KILOVOLTS	NAC	NOTIFICATION APPLIANCE CIRCUIT	REQMTS	REQUIREMENTS	UNO	UNLESS NOTED OTHERWISE
A	AMPERES	CONT	CONTINUATION OR CONTINUED	FACP	FIRE ALARM CONTROL PANEL	KVA	KILOVOLT AMPERES	NC	NORMALLY CLOSED	RGP	REDUNDANT GROUND PATH	V	VOLTS
AC	ALTERNATING CURRENT	COORD	COORDINATE	FAT	FIRE ALARM TERMINAL CABINET	KW	KILOWATTS	NIES	NOT IN ELECTRICAL SECTION	RM	ROOM	VA	VOLT AMPS
ACT	ABOVE COUNTERTOP/BACKSPLASH	CR	CONTROL RELAY	FIXT	FIXTURE	L	LINE	NIC	NOT IN ELECTRICAL CODE	RECP	RECEPTACLE	VFD	VARIABLE FREQUENCY DRIVE
ADJ	ADJACENT, ADJOINING	CT	CURRENT TRANSFORMER	FLA	FULL LOAD AMPS	LB	ELBOW	NO., #	NUMBER	RT	RAIN TIGHT	VM	VOLT METER
AFD	ADJUSTABLE FREQUENCY DRIVE	COMP	COMPRESSOR	FLEX	FLEXIBLE	LF	LINEAR FEET	NO	NORMALLY OPEN	SCH	SCHEDULE	W	WIRE
AFF	ABOVE FINISHED FLOOR	CU	COPPER	FLUOR	FLUORESCENT	LOS	LOCKOUT-STOP	NL	NIGHT LIGHT	SEC	SECONDS, SECONDARY	W/	WITH
AL	ALUMINUM	DC	DIRECT CURRENT	FS	FLOW SWITCH	LOH	LOCK-OFF-HALT	OC	ON CENTER	SHT	SHEET	W/O	WITHOUT
APPROX	APPROXIMATE	DET	DETAIL	FOR	FORWARD-OFF-REVERSE	LV	LOW VOLTAGE	OH	OVERHEAD	SIG	SIGNAL	WP	WEATHERPROOF
ARCH	ARCHITECT	DISC	DISCONNECT	FT	FEET	M	MOTOR	OL	THERMAL OVERLOAD RELAY	SPECS	SPECIFICATIONS	WHD	WATT HOUR DEMAND METER
AUTO	AUTOMATIC	DIST	DISTRIBUTION	GALV	GALVANIZED	MAX	MAXIMUM	OT	OVER TEMPERATURE	SW	SWITCH	WM	WATT METER
AUX	AUXILIARY	DSA	DIVISION OF THE STATE ARCHITECT	GND	GROUND	MCA	MINIMUM CIRCUIT AMPS	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT	SWD	SWITCHED	WH	WATER HEATER
ALT	ALTERNATE	DWG	DRAWING	GC	GENERAL CONTRACTOR	MCC	MOTOR CONTROL CENTER	PA	PUBLIC ADDRESS	SP	SPARE	XFMR	TRANSFORMER
AWG	AMERICAN WIRE GAUGE	(E), EXIST	EXISTING	HI	HIGH	MCM	THOUSAND CIRCULAR MILLS	PB	PULL BOX	STD	STANDARD	(XR)	REMOVE AND RELOCATE(D)
B	BARE	EC	ELECTRICAL CONTRACTOR	HOA	HAND-OFF-AUTO	MDF	MOTOR CIRCUIT PROTECTOR	PNL	PANEL	STR	STRANDED		
BC	BARE COPPER GROUND	EL, ELEV	ELEVATION	HOS	HAND-OFF-STANDBY	MDF	MAIN DISTRIBUTION FRAME	PH	PHASE	SWBD	SWITCHBOARD		
BKBD	BACKBOARD	EL	EMERGENCY LIGHT	HV	HIGH VOLTAGE	MECH	MECHANICAL	PR	PAIR	TELE	TELEPHONE		
BRKR	BREAKER	ELECT	ELECTRICAL	HVAC	HEATING, VENTILATION, AIR CONDITIONING	MFG	MANUFACTURER	PAIR	TEMPERATURE	TEMP	TEMPERATURE		
BLDG	BUILDING	EMS	ENERGY MANAGEMENT SYSTEM					TOA	TEST OFF AUTOMATIC				
C	CONDUIT OR CONTRACTOR	EMT	ELECTRICAL METALLIC TUBING										
CAB	CABINET	EOL	END OF LINE										

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DECEMBER 2024



PEZZONI ENGR. PROJECT # 24-046

WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
GENERAL NOTES AND ABBREVIATIONS

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DESIGN ENGINEER:
K. PEZZONI
LICENSE NO:
16269

DRAFTED BY:
CCM
CHECKED BY:
K. PEZZONI

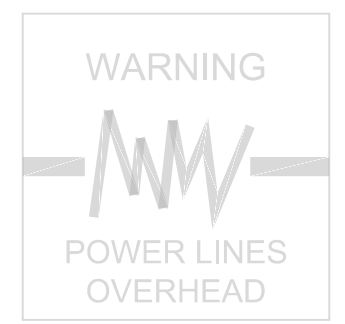
DATE: DEC. 2024
JOB NO: 229223003

PROJECT NO:
PHASE: CD

ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET
EG-1

18 OF 35

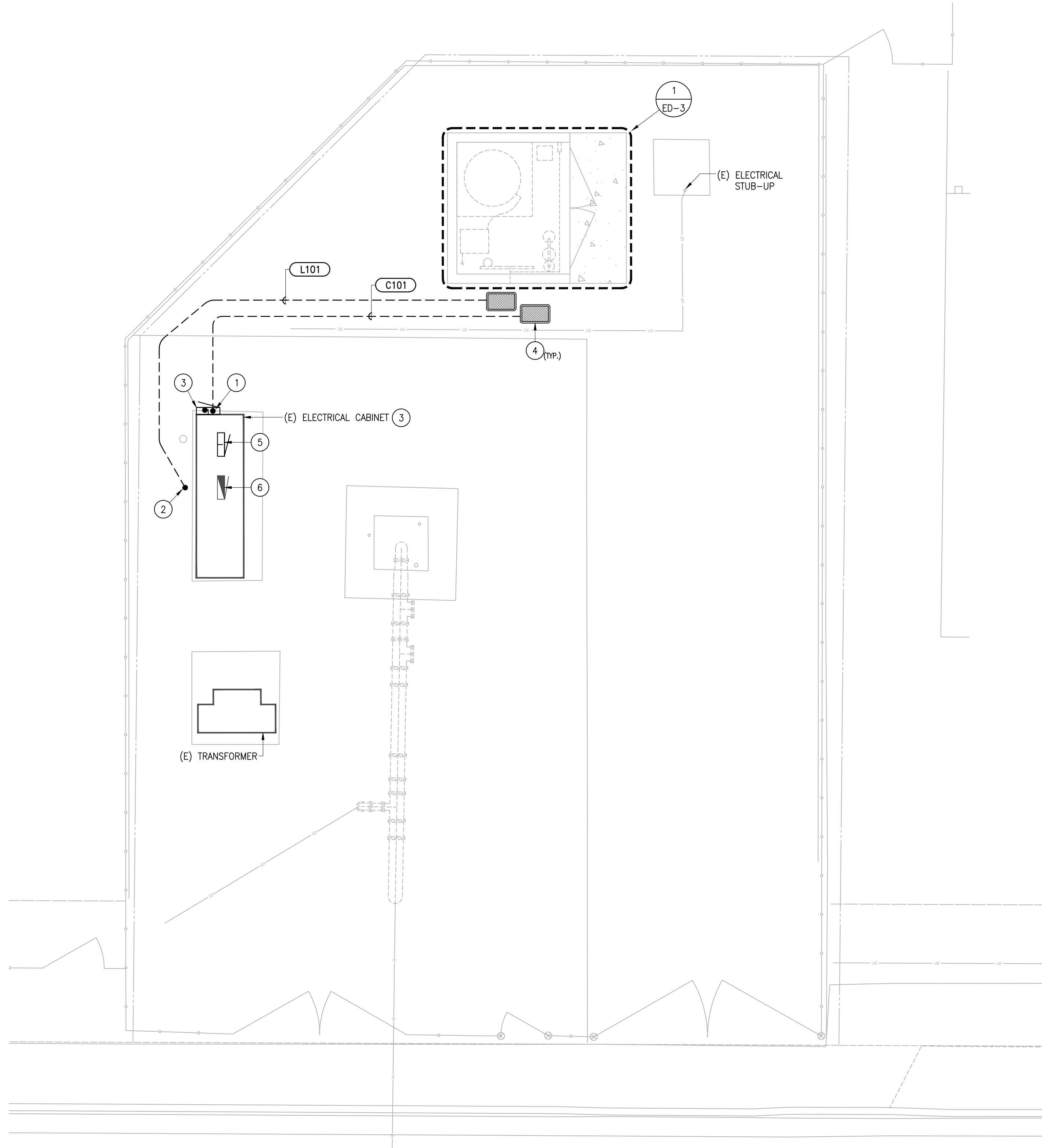


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12/06/24 4:30:22 PM F:\24\148 CITY OF TURLOCK CHLORINATION WELL #29\ENGR\SHEETS\148_E-1 PARTIAL SITE PLAN.DWG kpezzoni

CONDUIT & CABLE SCHEDULE -WELL #29											
CONDUIT ID#	FROM	TO	CONDUIT QNTY	SIZE	TYPE	CONDUCTOR QNTY	SIZE	GND	CABLE QNTY	TYPE	NOTES
L 101 A	(E) PANEL	(N) PULLBOX	1	1 1/4"	RMC	4	#10	#10			[2]
C 101 A	(E) PANEL	(N) PULLBOX	1	1 1/2"	RMC	10	#14	#14	3	2C/16AWG STP	[2]

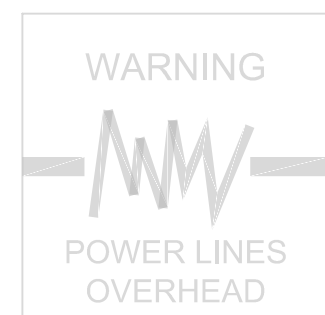
- NOTES:
 [1] = PROVIDE CONDUCTOR/CABLES IN ALL CONDUITS
 [2] = CONDUIT BELOW GRADE MAYBE PVC SCH40
 [3] = ROUTE (N) CABLE/CONDUCTOR(S) THROUGH (E) RACEWAYS WHERE POSSIBLE
 [4] = PROVIDE SS CONNECTORS & TYPE LFMC FLEX TO EQUIPMENT



1 PARTIAL SITE PLAN
 SCALE: 1"=5'-0"

PLAN NOTES:

- (N) RMC RISER INTO (N) PLC CABINET.
- LB INTO MCC +8'AFG NEAR EDGE OF HOUSEKEEPING PAD.
- REPLACE (E) PLC CABINET W/(N) PLC CABINET -RECONNECT (E) 120V POWER CKT & ALL (E) & (N) I/O ON SITE -SEE SHEET ED-2 FOR PANEL REQUIREMENTS.
- (N) N16 PULLBOXES FOR POWER & SIGNAL -SEE DETAIL 3/ED-2.
- REMOVE (E) CHART RECORDER & INSTALL (N) HMI CABINET -CONNECT ONTO (E) 120V CKT. & PROVIDE (N) CAT-6 SHIELDED & 6C/18AWG CABLE FOR PUMP CONTROL.
- CONNECT (N) 120V CIRCUITS ONTO (E) SPARE 20A-1P BREAKERS -LABEL AS 'RECP/LT -CL2 ENCLOSURE' & 'CL2 PUMP & ANALYZER'.



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ISSUED FOR BIDDING PURPOSES
 DECEMBER 2024



WELL 29 CHLORINATION
 CITY OF TURLOCK
 CITY PROJECT NO. 23-046
 ELECTRICAL
 PARTIAL SITE PLAN

PROVOST & PRITCHARD
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DESIGN ENGINEER:
 K. PEZZONI
 LICENSE NO:
 16269
 DRAFTED BY: CCM
 CHECKED BY: K. PEZZONI
 DATE: DEC. 2024
 JOB NO: 229223003

PROJECT NO:
 PHASE: CD
 ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.
 SHEET **E-1**



12/06/2024 4:30 PM F:\24\148 City of Turlock Chlorination Well #29\Engr\Sheets\148_E-1 PARTIAL SITE PLAN.DWG -Kevin Pezzoni

12/06/24 4:30:22 PM F:\24\148 CITY OF TURLOCK CHLORINATION WELL #29\ENGR\SHEETS\148_E-2 WELL 29 FLOOR PLAN-ELECTRICAL.DWG kpezzoni

CONDUIT & CABLE SCHEDULE -WELL 29											
CONDUIT ID#	FROM	TO	CONDUIT			CONDUCTOR			CABLE		NOTES
			QNTY	SIZE	TYPE	QNTY	SIZE	GND	QNTY	TYPE	
L 101 B	(N) J-BOX/PULLBOX	DT-AE/AIT-001	1	3/4"	CRMC	2	#10	#10			[2][4]
L 101 C	DT-AE/AIT-001	CMP-001	1	3/4"	CRMC	2	#10	#10			[2][4]
L 101 D	(N) J-BOX/PULLBOX	RECP/SWITCH/LT	1	3/4"	CRMC	2	#10	#10			[2][4]
C 101 B	(N) J-BOX/PULLBOX	DT-AE/AIT-001	1	1"	CRMC				1	2C/16AWG STP	[2][4]
C 101 C	(N) J-BOX/PULLBOX	CMP-001	1	1 1/4"	CRMC	10	#14	#14	2	2C/16AWG STP	[2][4]

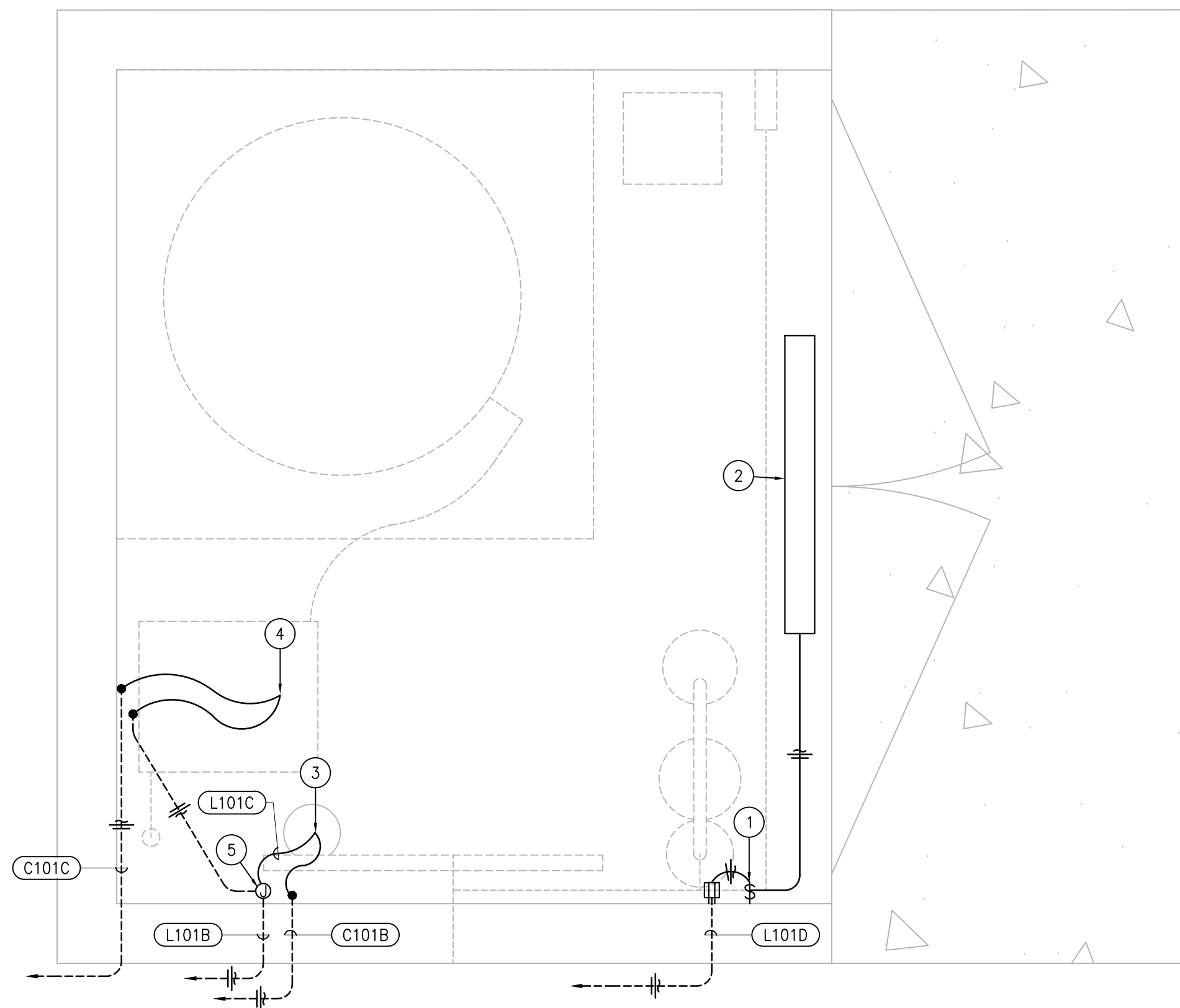
- NOTES:
 [1] = PROVIDE CONDUCTOR/CABLES IN ALL CONDUITS
 [2] = CONDUIT BELOW GRADE MAYBE PVC SCH40
 [3] = ROUTE (N) CABLE/CONDUCTOR(S) THROUGH (E) RACEWAYS WHERE POSSIBLE
 [4] = PROVIDE SS CONNECTORS & TYPE LPMC FLEX TO EQUIPMENT

NOTES:

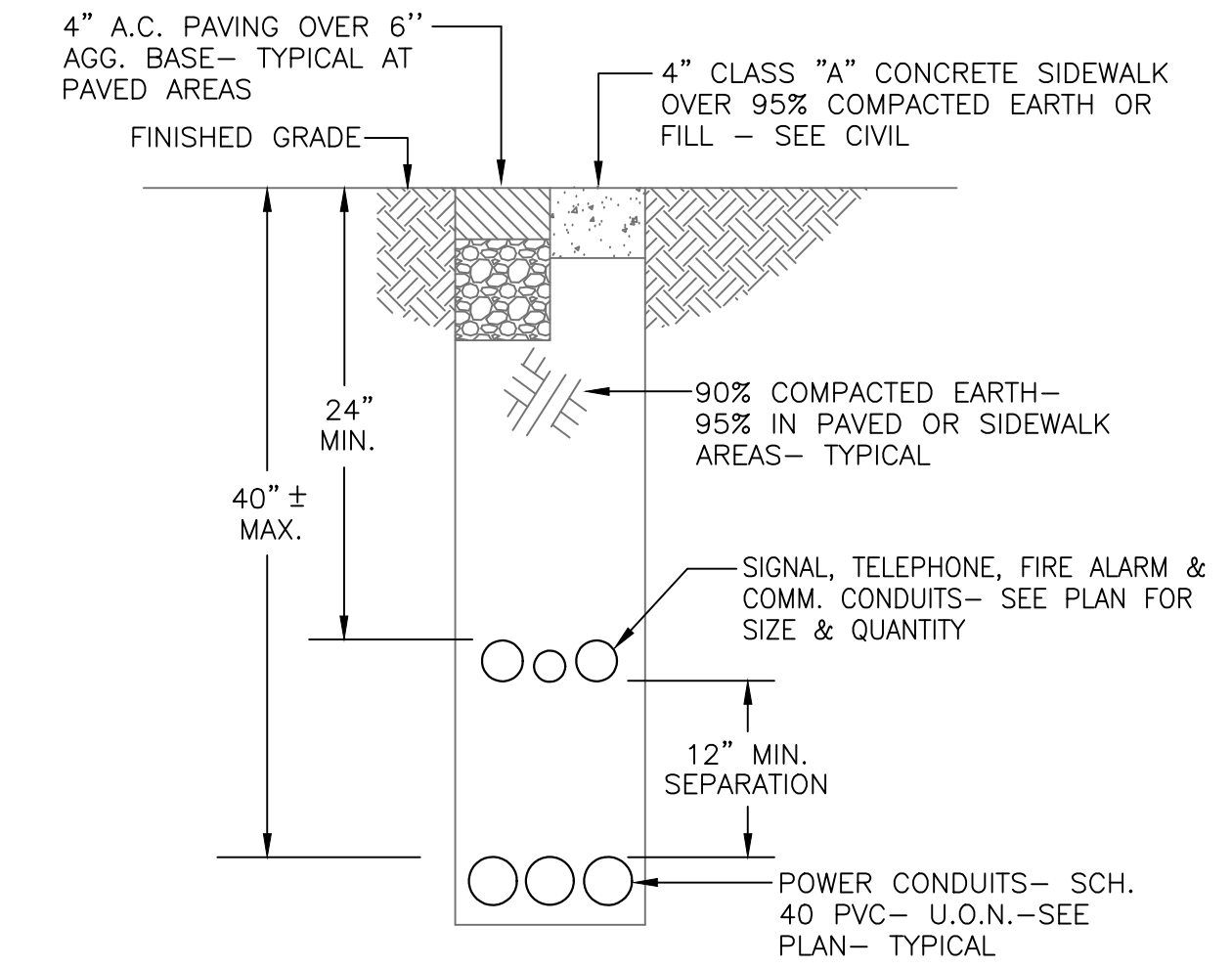
- LOCATE COATED WP LT SWITCH & GFCI RECEPTACLE W/COVER AT +42" AFF.
- (N) HEW #96-4-L40/840-HIAFR-WET/1-DIM-120 OR EQUAL (4000lm, 4000K, 30W) GASKETED WET FIBERGLASS LED FIXTURE.
- CONNECT (N) ANALYZER DT-AE/AIT-001 -COORDINATE W/SHEET D-4.
- CONNECT (N) CHEMICAL FEED -COORDINATE W/SHEET D-1.
- MOUNT 4 SQ CRMC BOX BELOW ANALYZER BACKBOARD.

GENERAL NOTES

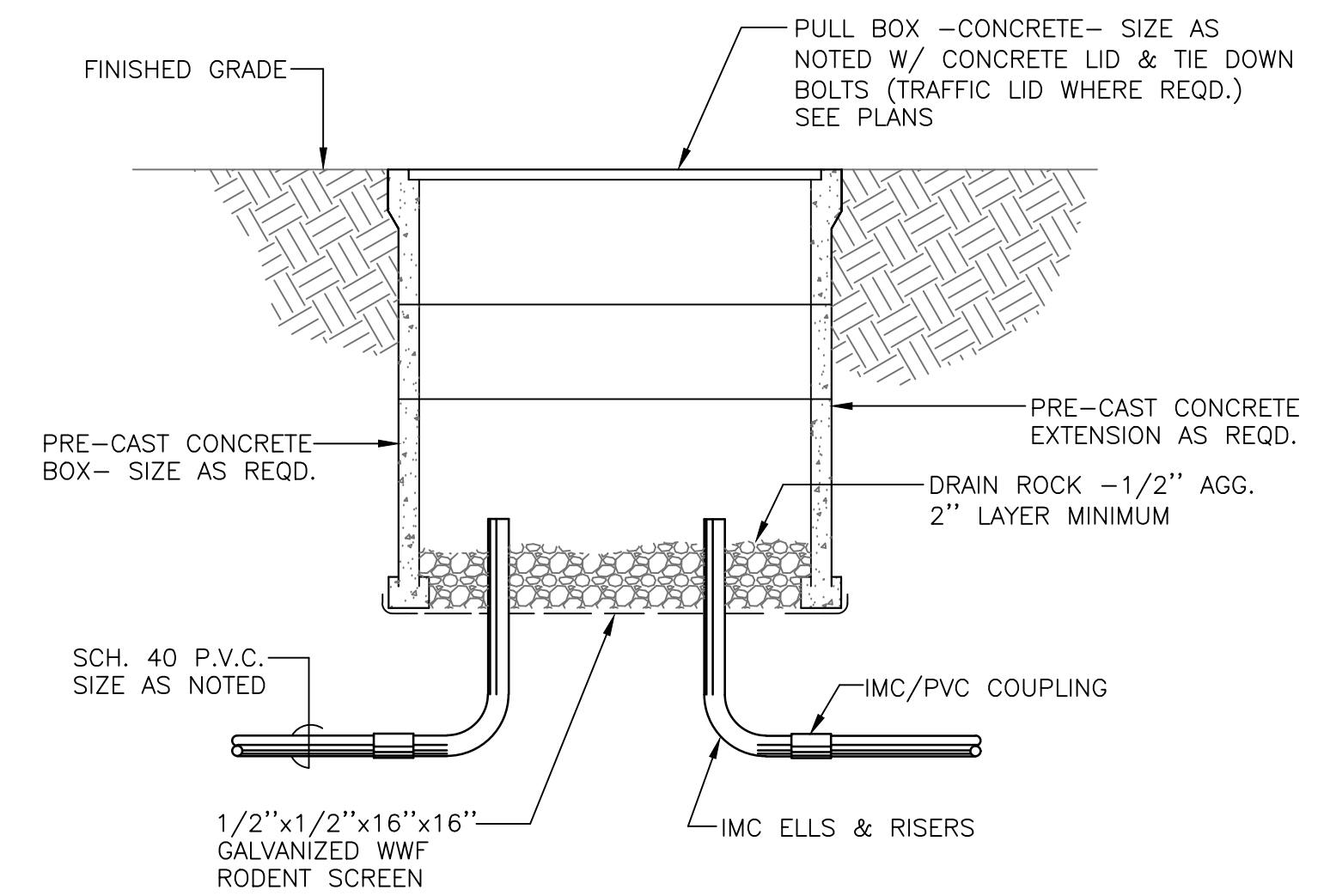
- NO SPLICING OF 120V CIRCUITS WITHIN PULLBOX/BELOW GRADE.
- COORDINATE HOMERUN ORIENTATION W/SITE SPECIFIC PLAN FOR J-BOX/PULLBOX LOCATION.



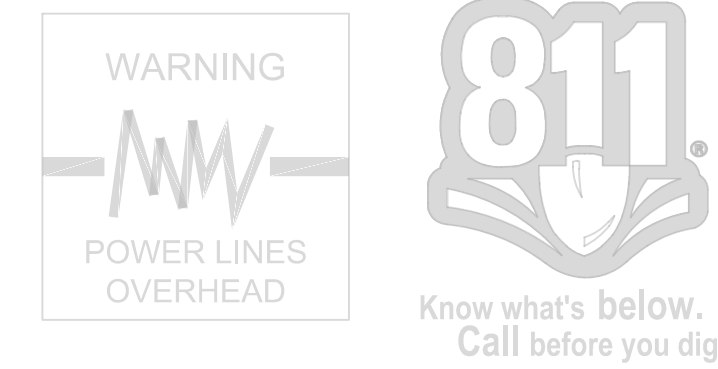
1 WELL 29 PUMP EQUIPMENT LAYOUT
SCALE: 3/4"=1'-0"



2 ELECTRICAL TRENCH SECTION (TYP.)
SCALE: NTS



3 PULL BOX (TYP.)
SCALE: NTS



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 REVISION _____

REGISTERED PROFESSIONAL ENGINEER
 KEVIN L. PEZZONI
 No. 14800
 STATE OF CALIFORNIA
 PEZZONI ENGR. PROJECTS & PLAN.

WELL 29 CHLORINATION
 CITY OF TURLOCK
 CITY PROJECT NO. 23-046
 ELECTRICAL
 WELL 29 EQUIPMENT PLAN LAYOUT

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 www.provostandpritchard.com

DESIGN ENGINEER:
 K. PEZZONI
 LICENSE NO:
 16269

DRAFTED BY: CCM
 CHECKED BY: K. PEZZONI

DATE: DEC. 2024
 JOB NO: 22923003

PROJECT NO:
 PHASE: CD

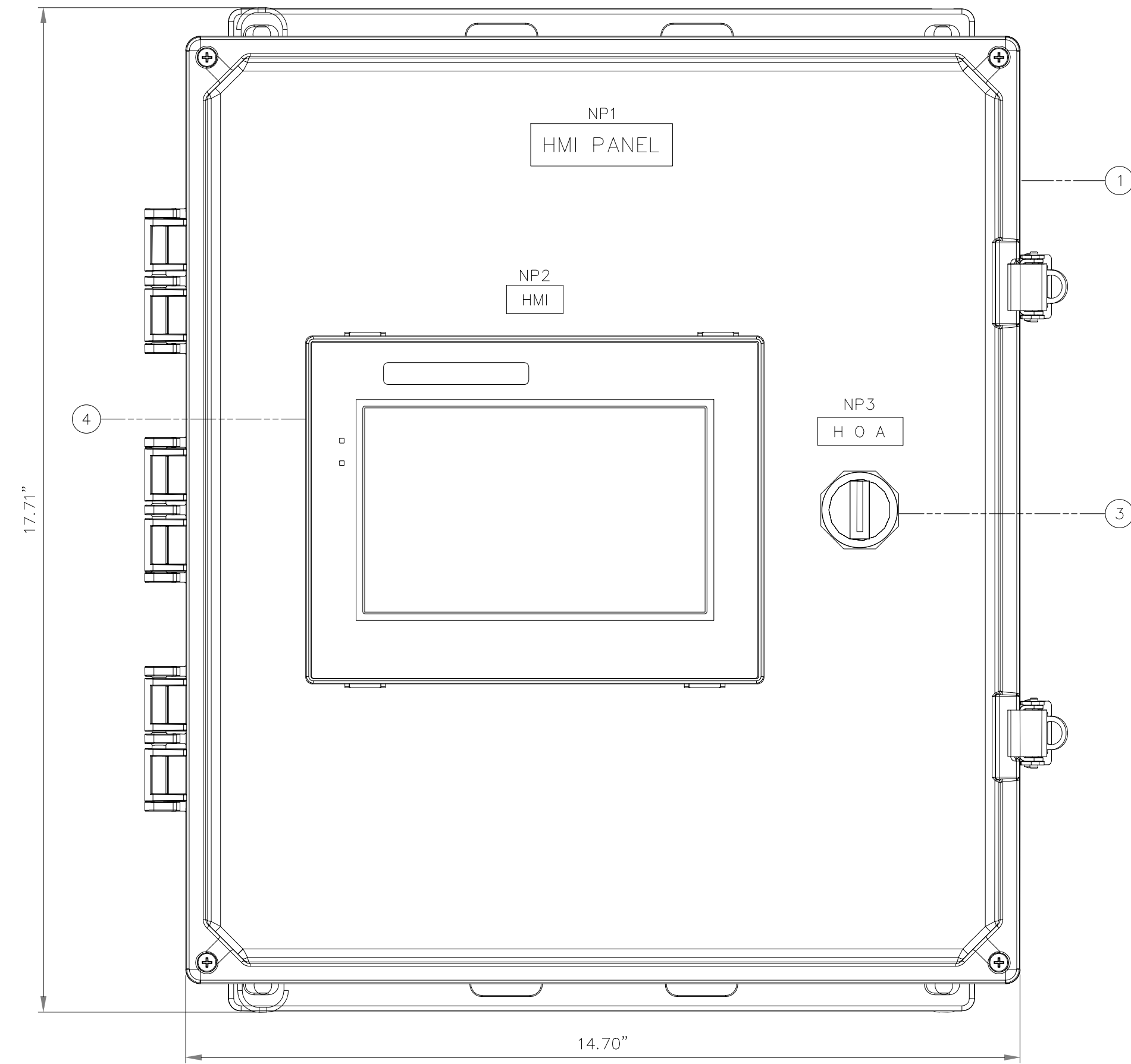
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SHEET **E-2**

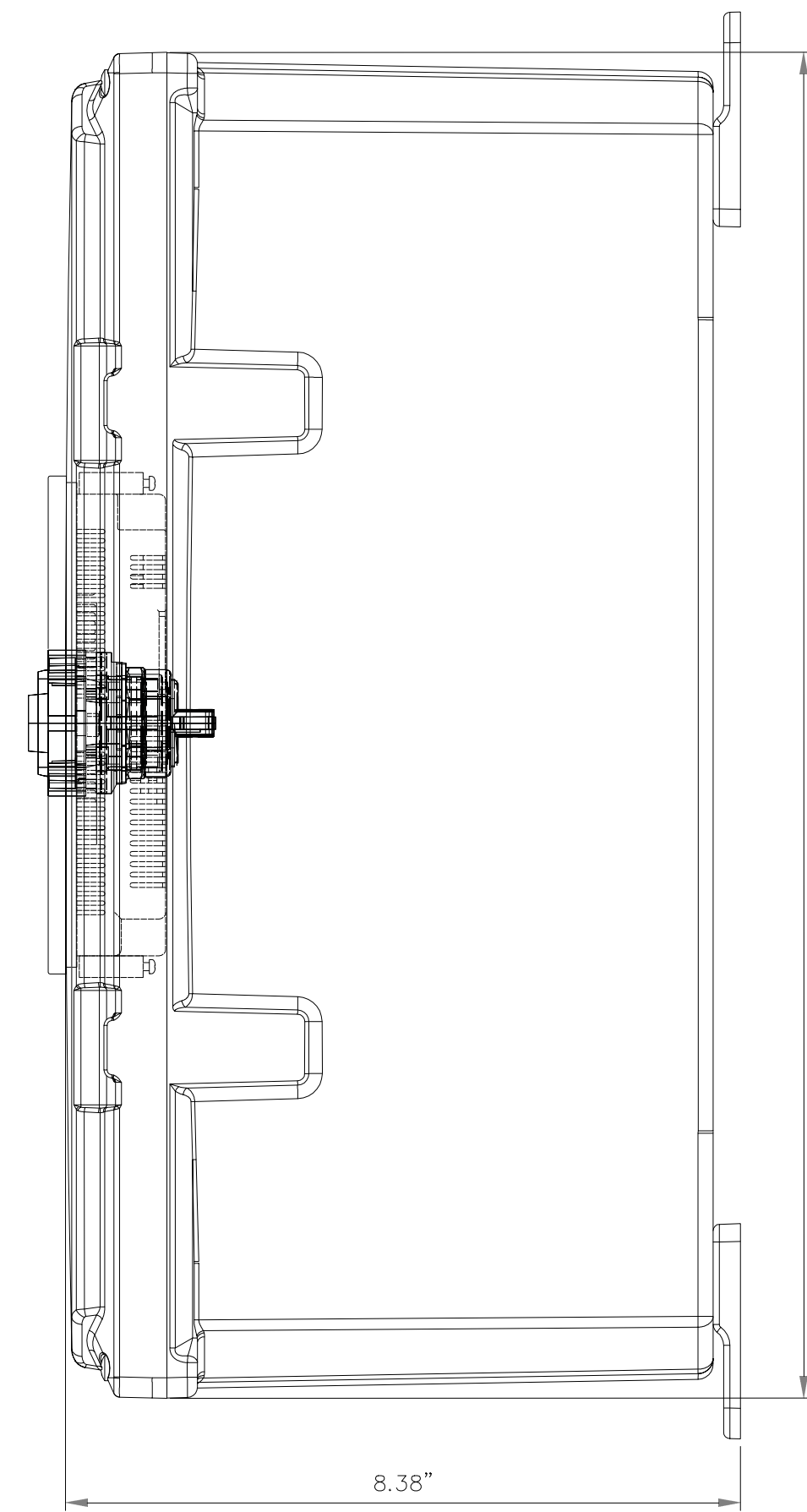
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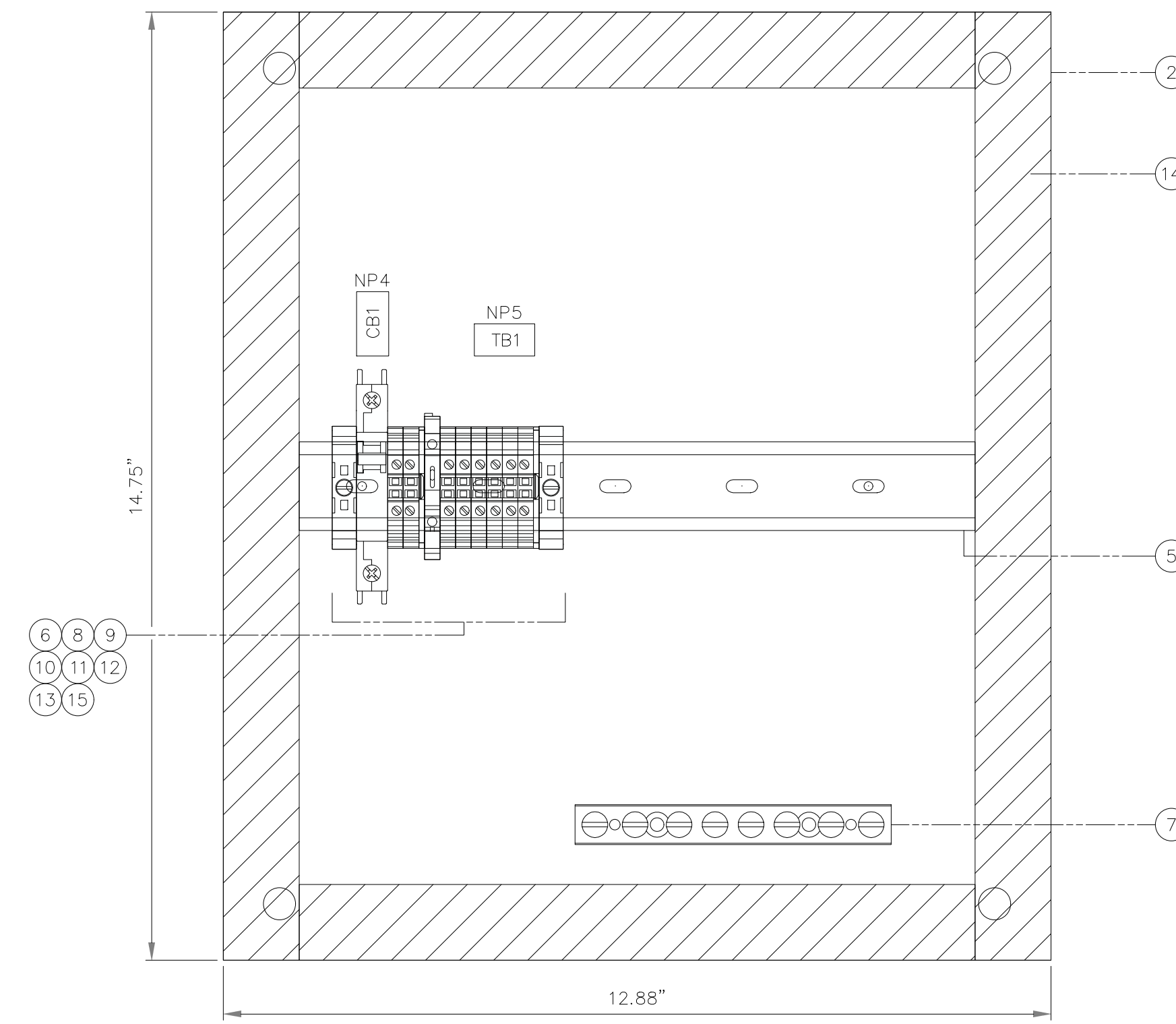
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FRONT PANEL LAYOUT



RIGHT SIDE VIEW



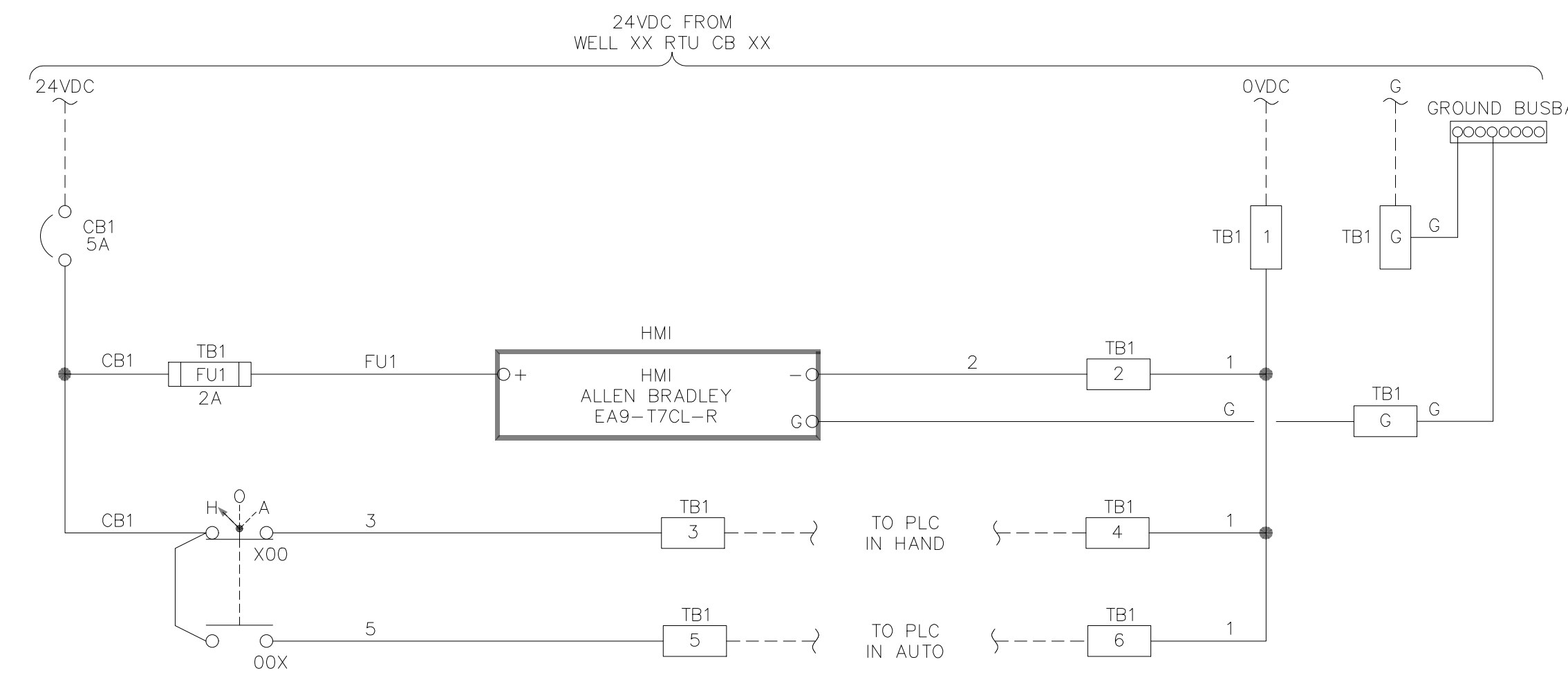
BLACKPLATE LAYOUT

1 HMI CABINET LAYOUT

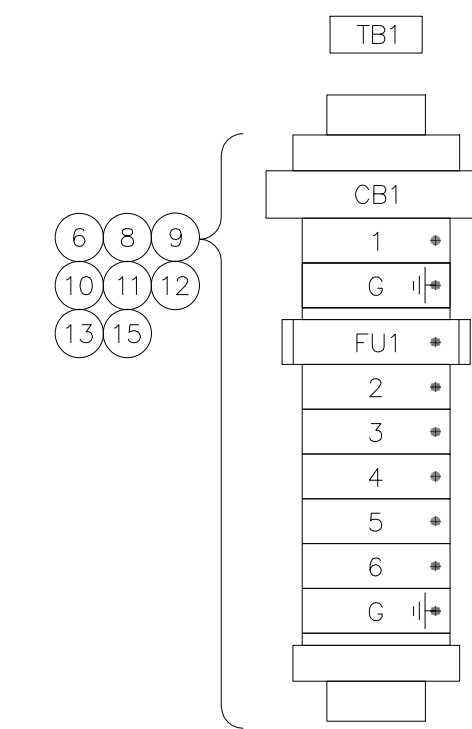
SCALE: NTS

ITEM	QTY.	DESCRIPTION	MANUFACTURER	PART NUMBER
1	1	ENCLOSURE, 16.71" (H) X 14.70" (W) X 8.38" (D)	INTEGRA	H161407H
2	1	BACKPLATE, 14.75"(H) X 12.88" (W)	INTEGRA	PVCBP1614
3	1	SECTOR SWITCH, 3-POSITION, MAINTAINED, 2NO+2NC	ALLEN BRADLEY	800T-J2B
4	1	TOUCH SCREEN HMI, 7" COLOR TFT LCD	AUTOMATION DIRECT	EA9-T7CL-R
5	A/R	DIN RAIL	AUTOMATION DIRECT	DN-R35S1
6	1	CIRCUIT BREAKER, 24VDC, 5A, 1 POLE	WEIDMULLER	9626251905
7	1	GROUND BAR	PANDUIT	UGB20-414-6
8	6	FEED THROUGH TERMINAL BLOCK, UT 4	PHOENIX CONTACT	3044102
9	2	GROUND TERMINAL BLOCK, UT4-PE	PHOENIX CONTACT	3044128
10	2	END COVER - D-UT 2.5/10	PHOENIX CONTACT	3047028
11	2	END CLAMP - E/NS 35 N	PHOENIX CONTACT	0800886
12	A/R	JUMPER FOR TERMINAL BLOCKS	PHOENIX CONTACT	3030271
13	A/R	MARKER FOR TERMINAL BLOCKS	PHOENIX CONTACT	0828736
14	A/R	WIRE DUCT 1" (W) X 2" (H) WITH COVER	PHOENIX CONTACT	3240280
15	1	FUSE 2A	BUSSMANN	GMC-2-R

NP NO.	SIZE	QTY	TEXT	ENGRAVING		
				1st LINE	2nd LINE	3rd LINE
1	2.5" X 0.75"	1	1/4"	HMI PANEL		
2	1" X 0.5"	1	3/16"	HMI		
3	1.5" X 0.5"	1	3/16"	H O A		
4	1" X 0.5"	1	3/16"	CB1		
5	1" X 0.5"	1	3/16"	TB1		



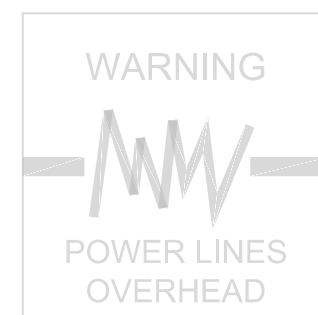
DIAGRAM



TB LAYOUT

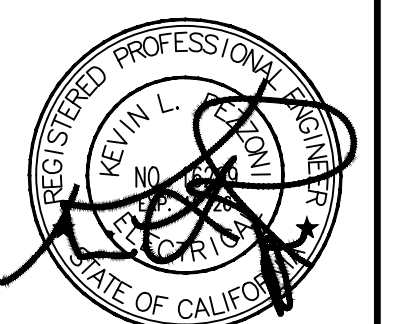
2 POWER DISTRIBUTION WIRING DIAGRAM & TB LAYOUT

SCALE: NTS



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DECEMBER 2024



WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
HMI CABINET PANEL LAYOUT

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DATE: DEC. 2024
JOB NO: 229223003

PROJECT NO:
PHASE: CD

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SHEET ED-1

21 OF 35

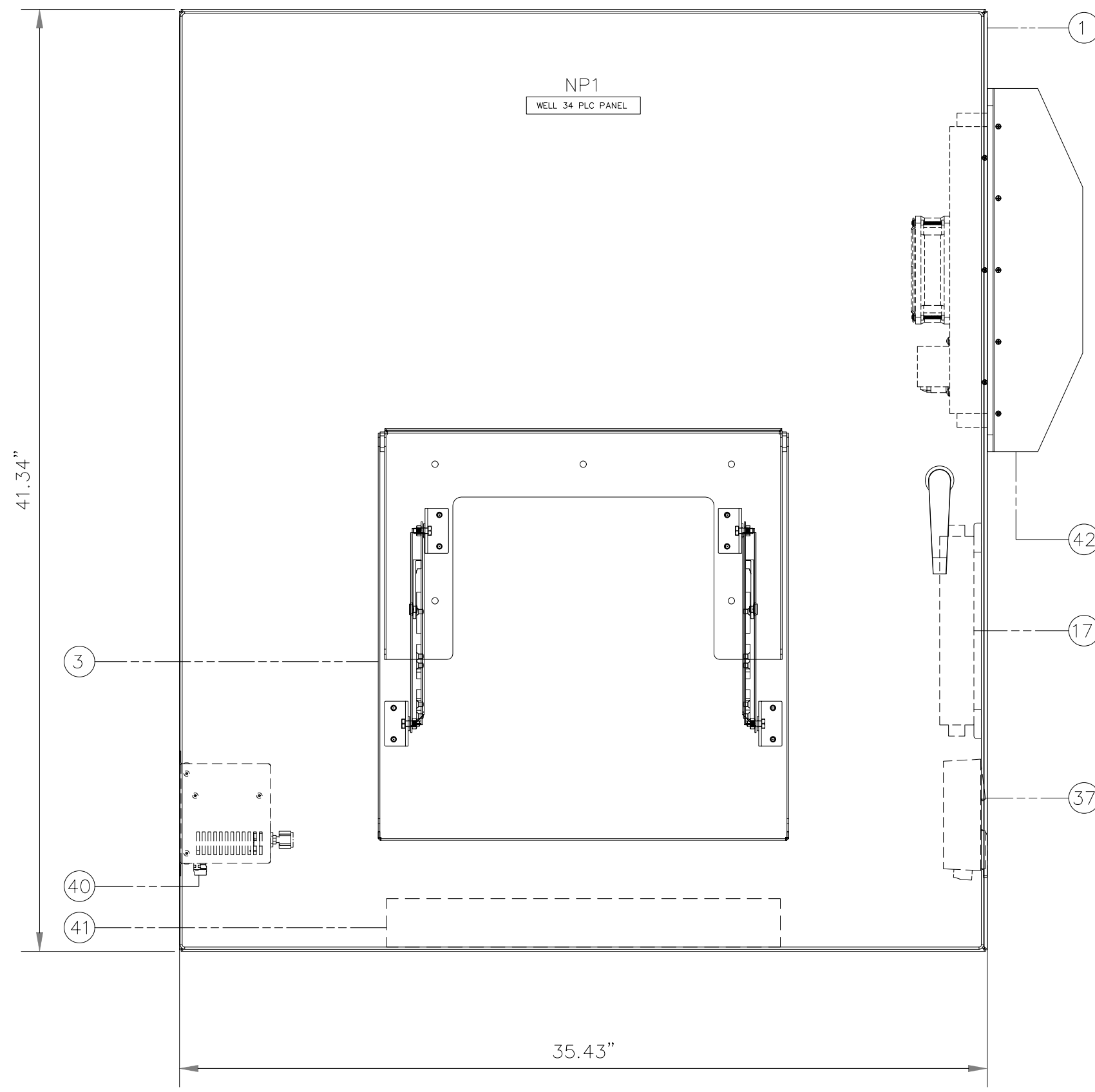


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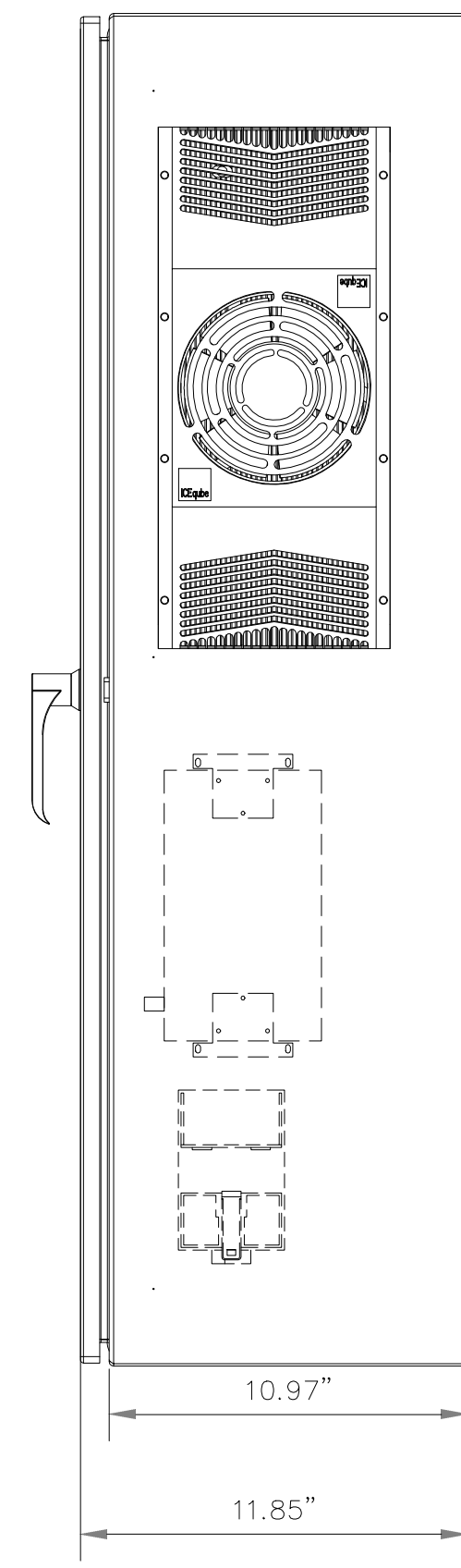
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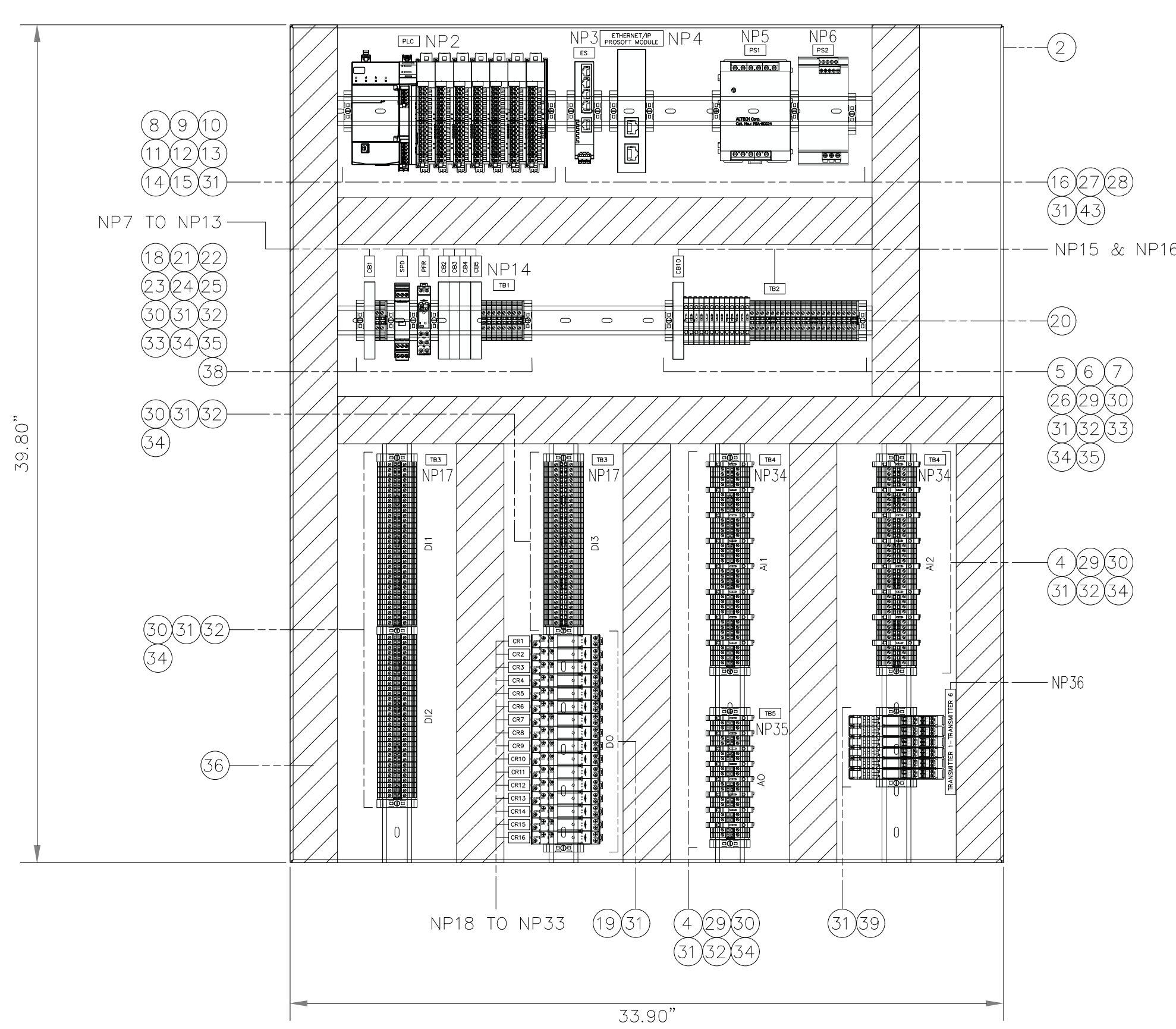
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FRONT PANEL LAYOUT



SIDE VIEW



BLACKPLATE LAYOUT

1 PLC PANEL LAYOUT

SCALE: NTS

ITEM	QTY.	DESCRIPTION	MANUFACTURER	PART NUMBER
1	1	ENCLOSURE, 41.34" H X 35.43" W X 11.90" D	RITTAL	WM423612N6
2	1	SUB PANEL, 39.80" H X 33.90" W	RITTAL	
3	1	FOLDING SHELF	HOFFMAN	AASHLF1818
4	24	FUSE ACTING FUSE 63mA	BUSSMANN	GMC-63mA
5	2	FAST ACTING FUSE 0.5A	BUSSMANN	GMC-500mA
6	4	FAST ACTING FUSE 1A	BUSSMANN	GMC-1A
7	7	FAST ACTING FUSE 2A	BUSSMANN	GMC-2A
8	1	CON TROLLER, COMPACTLOGIX 5380, 1 MB USER MEMORY, 8 I/Os, 24 ETHERNET/TIP DEVICES	ALLEN BRADLEY	5069-L310ER
9	3	16 CHANNEL DIGITAL INPUT MODULE, 24VDC	ALLEN BRADLEY	5069-IB16
10	1	16 CHANNEL DIGITAL OUTPUT MODULE, 24VDC	ALLEN BRADLEY	5069-OB16
11	2	8 CHANNEL ANALOG INPUT MODULE	ALLEN BRADLEY	5069-IF8
12	1	8 CHANNEL ANALOG OUTPUT MODULE	ALLEN BRADLEY	5069-OF8
13	1	RIGHT END CAP	ALLEN BRADLEY	5069-ECR
14	1	POWER RTB	ALLEN BRADLEY	5069-RTB64-SCREW
15	7	18 PIN RTB	ALLEN BRADLEY	5069-RTB18-SCREW
16	1	DISTRIBUTED NETWORK PROTOCOL (DNP3) GATEWAY	PROSOFT	PLX51-DNP5
17	1	ORBIT SERIES MCR RADIO WITH BRACKET	GE	MXNCL9CN4GYNNS1FIDUNN
18	1	CON TROL RELAY, 120VAC SPDT	FINDER	4C.01.8.120.0060
19	16	CON TROL RELAY, SPDT, 24VDC WITH BASE	FINDER	4C.01.9.024.0050
20	A/R	DIN RAIL	AUTOMATION DIRECT	DN-R3551
21	1	CIRCUIT BREAKER, 1P, 20A, 120VAC	WEIDMULLER	9926251030
22	1	CIRCUIT BREAKER, 1P, 15A, 120VAC	WEIDMULLER	9926251015
23	1	CIRCUIT BREAKER, 1P, 8A, 120VAC	WEIDMULLER	9926251008
24	1	CIRCUIT BREAKER, 1P, 3A, 120VAC	WEIDMULLER	9926251003
25	1	CIRCUIT BREAKER, 1P, 1A, 120VAC	WEIDMULLER	9926251001
26	1	CIRCUIT BREAKER, 1P, 25A, 24VDC	WEIDMULLER	9926251925
27	1	ETHERNET SWITCH, 5 PORT	PHOENIX CONTACT	1085039
28	1	POWER SUPPLY 24VDC, 10A	PHOENIX CONTACT	2866763
29	37	FUSE TERMINAL WITH INDICATOR 24VDC	PHOENIX CONTACT	3046090
30	195	FEED THROUGH TERMINAL BLOCK, UT4	PHOENIX CONTACT	3044102
31	30	TERMINAL BLOCK END BRACKET E/NS 35 N	PHOENIX CONTACT	0800886
32	9	TERMINAL BLOCK END COVER, D-UT 2.5/10	PHOENIX CONTACT	3047028
33	A/R	JUMPER FOR TERMINAL BLOCK	PHOENIX CONTACT	3090271
34	A/R	MARKER FOR TERMINAL BLOCK	PHOENIX CONTACT	0828736
35	13	GROUND TERMINAL BLOCK, UT4	PHOENIX CONTACT	3044128
36	A/R	WIREWAY 2"W X 3"H WITH COVER	PHOENIX CONTACT	3240263
37	1	RECEPTACLE, 15A	PHOENIX CONTACT	5600461
38	1	AC LINE SURGE PROTECTOR	PHOENIX CONTACT	2907918
39	6	CURRENT/MILLIVOLT INPUT TWO-WIRE/THREE-WIRE TRANSMITTER	ACROMAG	TT236
40	1	PANEL HEATER, 100 WATT	HOFFMAN	DAH1001A
41	1	FLEX PDU AND MAINTENANCE BYPASS SWITCH	EATON	EHBP1500R-PDU1U
42	1	AC UNIT, 24VDC	ICEQUIBE	IQ300TE
43	1	AC UNIT POWER SUPPLY, 25A	ALTECH CORP	PSA-60024

NP NO.	SIZE	QTY.	TEXT	NAMEPLATE SCHEDULE		
				1st LINE	2nd LINE	3rd LINE
1	8" X 0.75"	1	14"	WELL 29 PLC PANEL		
2	1" X 0.5"	1	316"	FLC		
3	1" X 0.5"	1	316"	ES		
4	3" X 0.75"	1	316"	ETHERNET/TIP	FRONT/RT MODULE	
5	1" X 0.5"	1	316"	PS1		
6	1" X 0.5"	1	316"	PS2		
7	1" X 0.5"	1	316"	CB1		
8	1" X 0.5"	1	316"	BRD		
9	1" X 0.5"	1	316"	FRF		
10	1" X 0.5"	1	316"	CR2		
11	1" X 0.5"	1	316"	CR3		
12	1" X 0.5"	1	316"	CR4		
13	1" X 0.5"	1	316"	CR5		
14	1" X 0.5"	1	316"	TR1		
15	1" X 0.5"	1	316"	CR10		
16	1" X 0.5"	1	316"	TR2		
17	1" X 0.5"	2	316"	TR3		
18	1" X 0.5"	1	316"	CR1		
19	1" X 0.5"	1	316"	CR2		
20	1" X 0.5"	1	316"	CR3		
21	1" X 0.5"	1	316"	CR4		
22	1" X 0.5"	1	316"	CR5		
23	1" X 0.5"	1	316"	CR6		
24	1" X 0.5"	1	316"	CR7		
25	1" X 0.5"	1	316"	CR8		
26	1" X 0.5"	1	316"	CR9		
27	1" X 0.5"	1	316"	CR10		
28	1" X 0.5"	1	316"	CR11		
29	1" X 0.5"	1	316"	CR12		
30	1" X 0.5"	1	316"	CR13		
31	1" X 0.5"	1	316"	CR14		
32	1" X 0.5"	1	316"	CR15		
33	1" X 0.5"	1	316"	CR16		
34	1" X 0.5"	2	316"	TR4		
35	1" X 0.5"	1	316"	TR5		
36	5" X 0.5"	1	316"	TRANSMITTER 1-TRANSMITTER 6		
37	3" X 1"	1	316"	RECEPTACLE	FLA 15A	CONVENIENCE USE
38	1.5" X 0.5"	1	316"	HEATER		
39	1" X 0.5"	1	316"	RADIO		



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WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC PANEL LAYOUT AND BACKPLATE

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DESIGN ENGINEER:
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LICENSE NO.:
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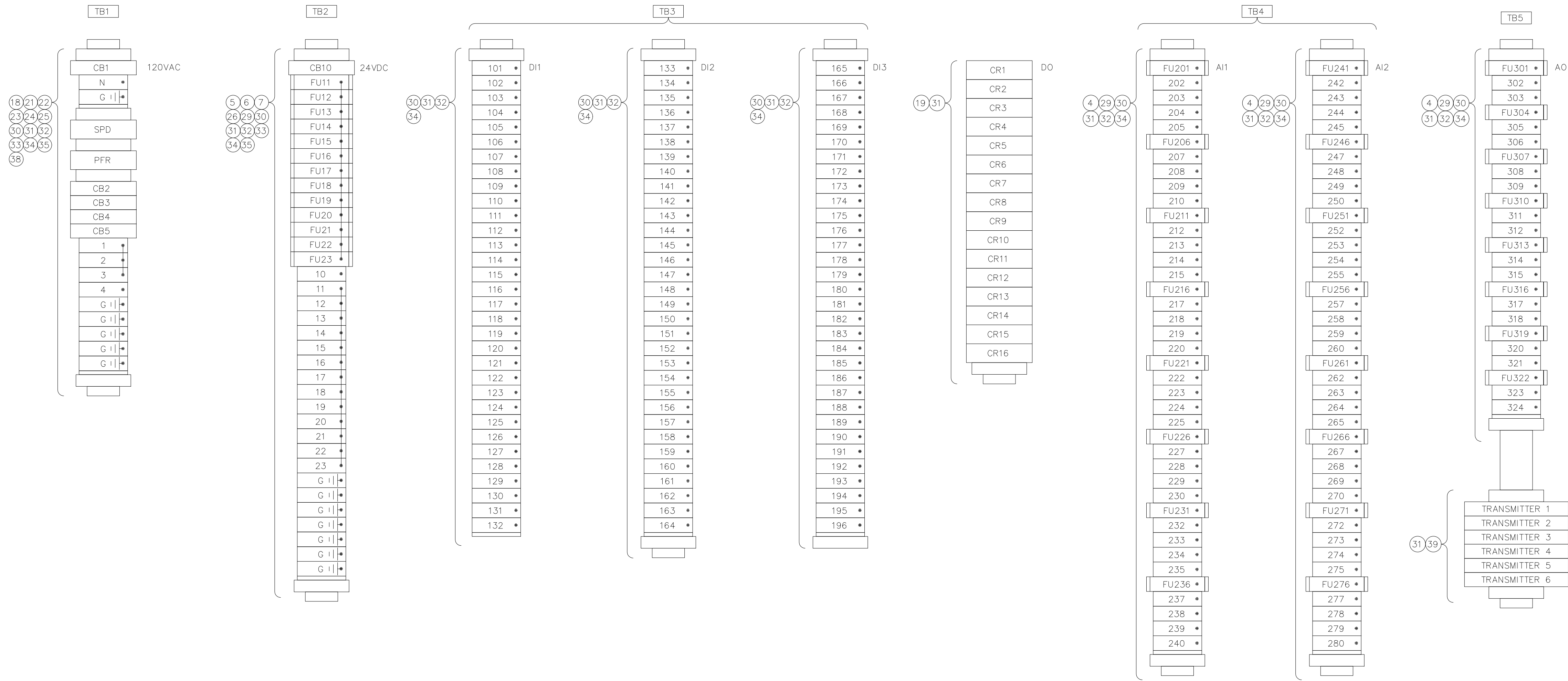
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DATE: DEC. 2024
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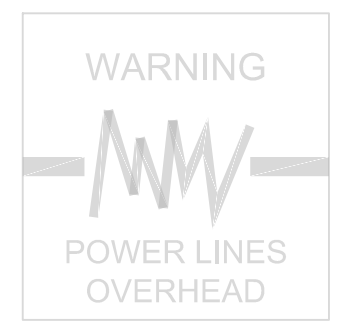
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SHEET **ED-2**
22 OF 35

12/26/2024 4:30 PM F:\24\148 City of Turlock Chlorination Well #29\Engr\Sheets\148_ED-2 PLC PANEL LAYOUT.dwg -Kevin Pezzoni



1 **PLC CABINET TERMINAL LAYOUT**
SCALE: NTS



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WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC PANEL BILL OF MATERIALS

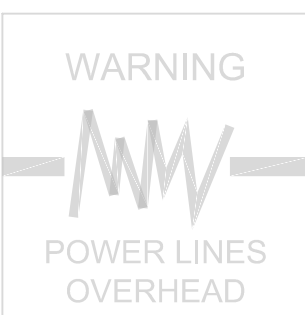
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LICENSE NO:
16269
DRAFTED BY: CCM
CHECKED BY: K. PEZZONI
DATE: DEC. 2024
JOB NO: 229223003

PROJECT NO:
PHASE: CD
0 1"
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SHEET **ED-2.1**
23 OF **35**



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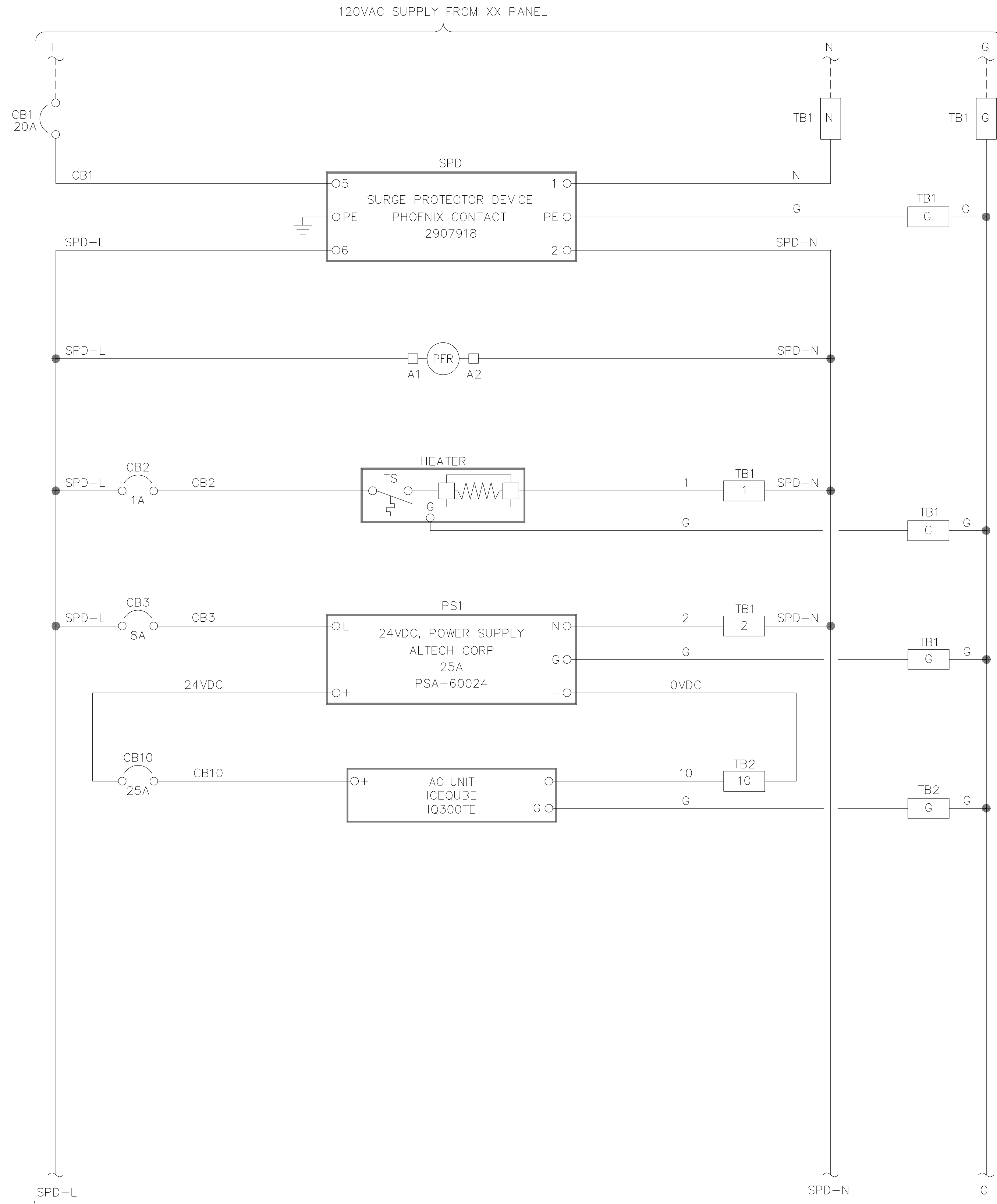
1 POWER DISTRIBUTION DIAGRAM
SCALE: NTS



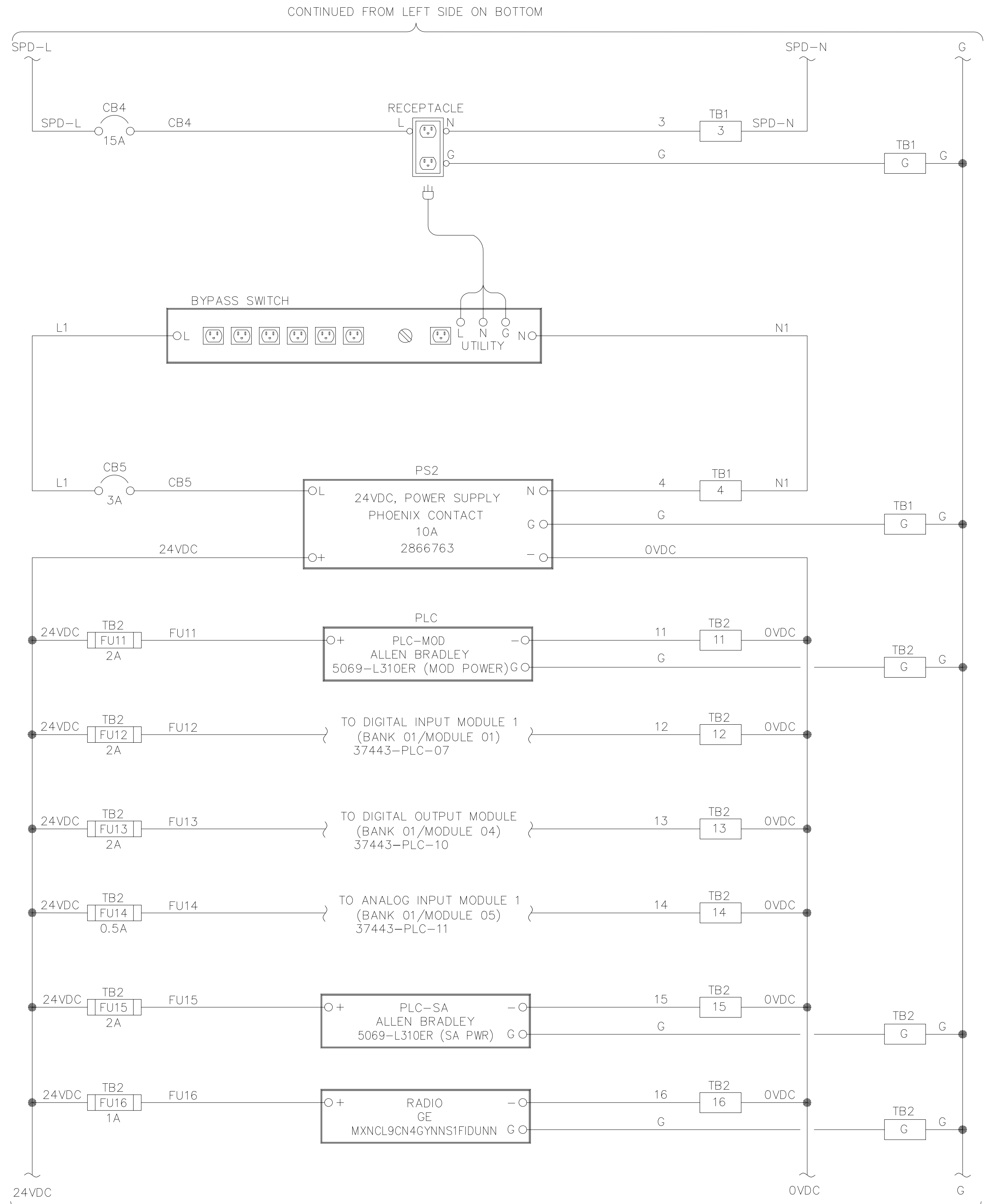
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SHEET **ED-2.2**
24 OF 35

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CONTINUED TO 10-2.1 (CONT.) POWER DISTRIBUTION DIAGRAM

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WELL 29 CHLORINATION
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CITY PROJECT NO. 23-046
ELECTRICAL
PLC POWER DISTRIBUTION DIAGRAM

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DATE: DEC. 2024
JOB NO: 229223003

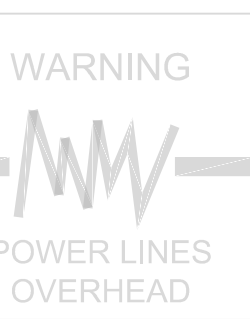
PROJECT NO:
PHASE: CD

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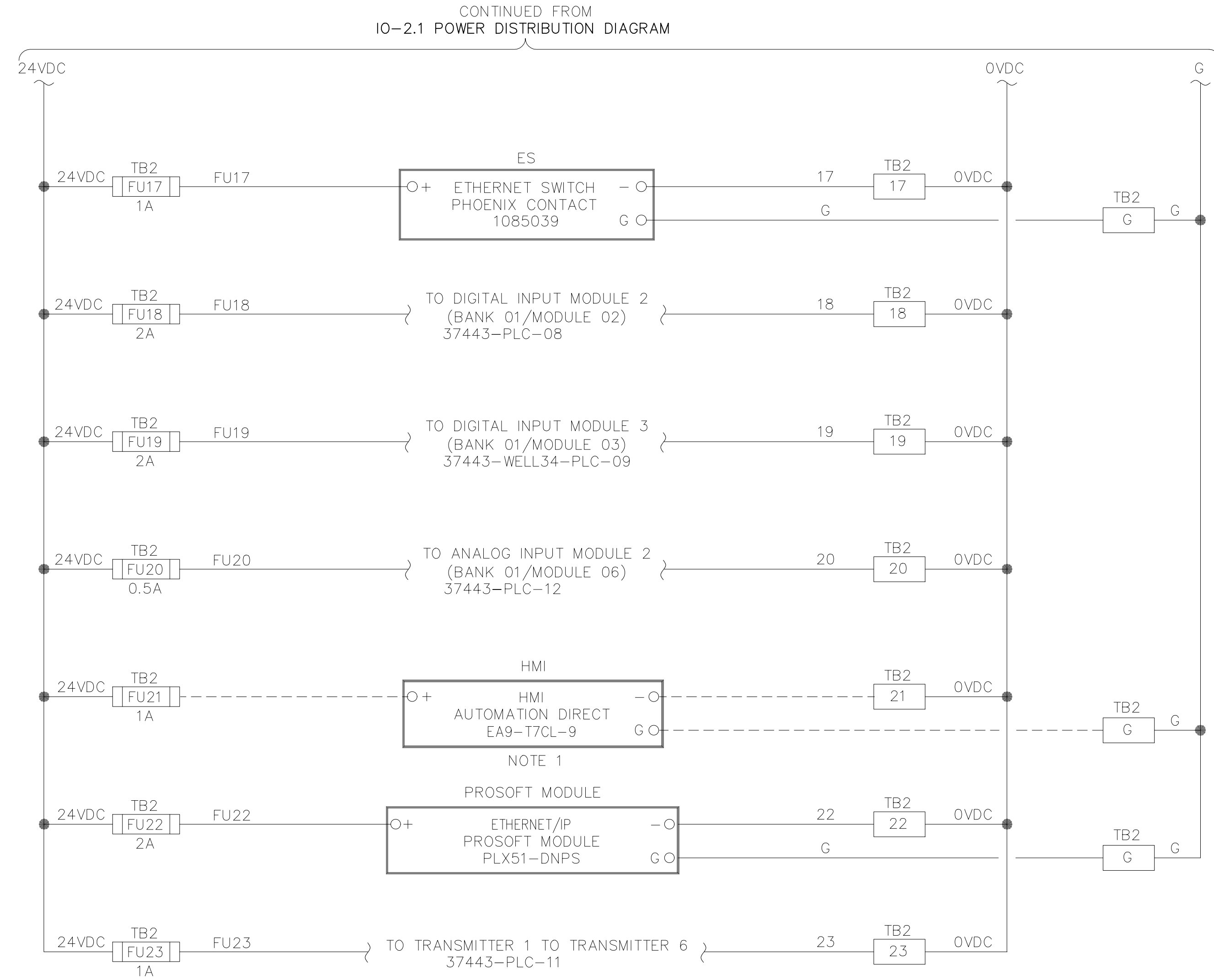
SHEET **ED-2.2**

24 OF 35

12/06/24 4:30:26 PM F:\24\148 CITY OF TURLOCK CHLORINATION WELL #29\ENGR\SHEETS\148_ED-2.3 PLC PANEL POWER DIST DIAGRAM.DWG kpezzoni



1 POWER DISTRIBUTION DIAGRAM (CONT.)
SCALE: NTS



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PEZZONI ENGR. PROJECT # 24-046

WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC POWER DISTRIBUTION DIAGRAM

PROVOST & PRITCHARD

455 W FIR AVENUE
CLOVIS, CA 95326
PHONE (559) 449-2700
FAX (559) 449-2715
www.provostandpritchard.com

DESIGN ENGINEER:
K. PEZZONI
LICENSE NO:
16269

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DATE: DEC. 2024

JOB NO: 229223003

PROJECT NO:
PHASE: CD

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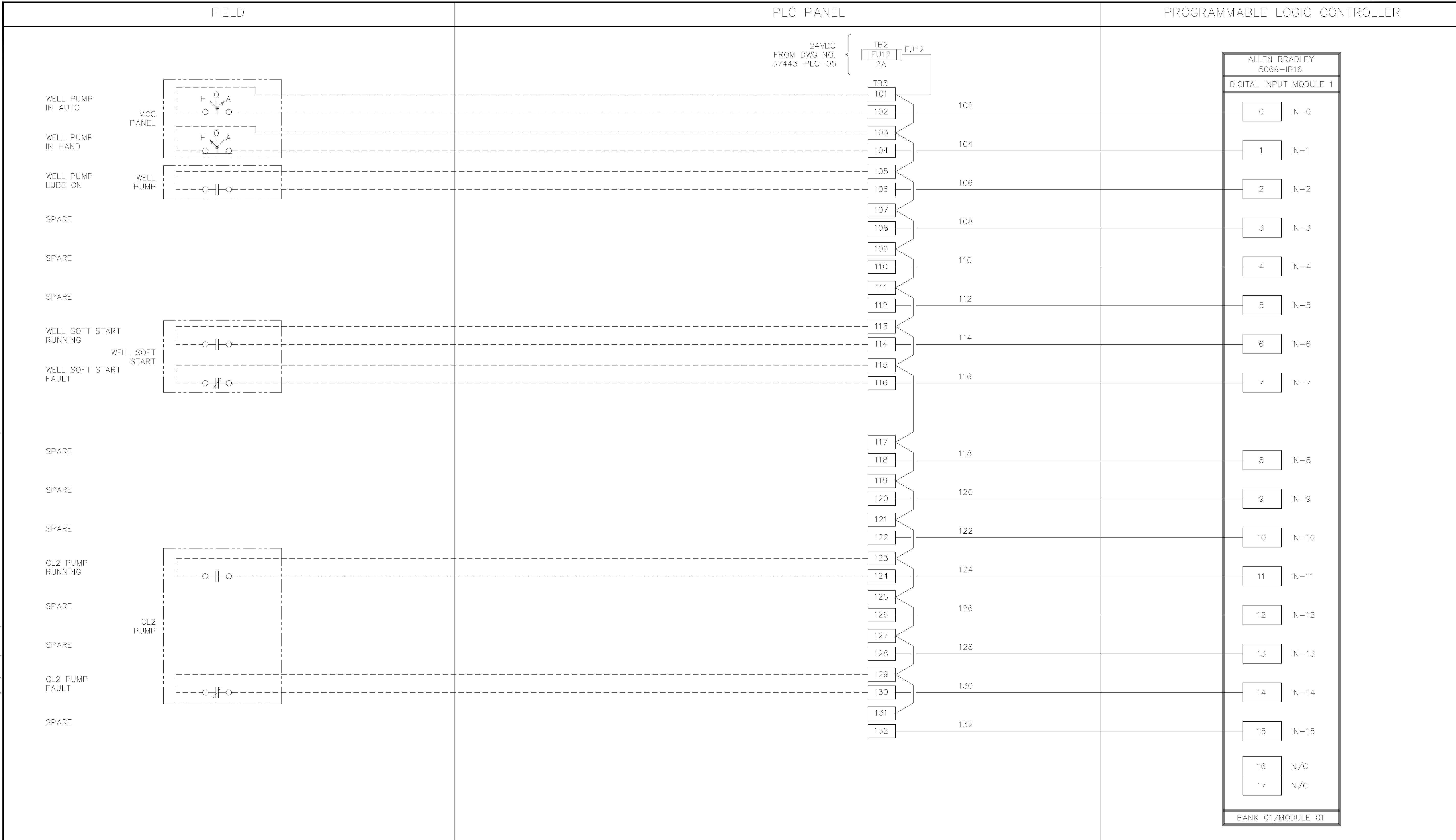
SHEET **ED-2.3**

25 OF 35



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12/06/24 4:30:38 PM F:\24\148 CITY OF TURLOCK CHLORINATION WELL #29\ENGR\SHEETS\148_ED-2.4 DIGITAL INPUT MODULE 1 DIAGRAM.DWG kpezioni



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REGISTERED PROFESSIONAL ENGINEER
KEVIN L. PEZZONI
STATE OF CALIFORNIA
PEZZONI ENGR. PROJECTS & PLANS

WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC DIGITAL INPUT MODULE 1 DIAGRAM

PROVOST & PRITCHARD
455 W. FIR AVENUE
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LICENSE NO:
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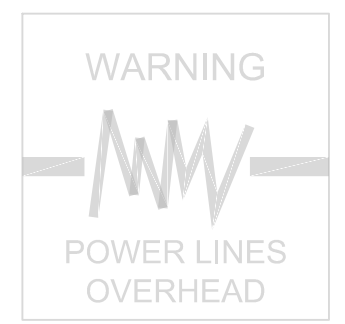
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SHEET **ED-2.4**

26 OF 35

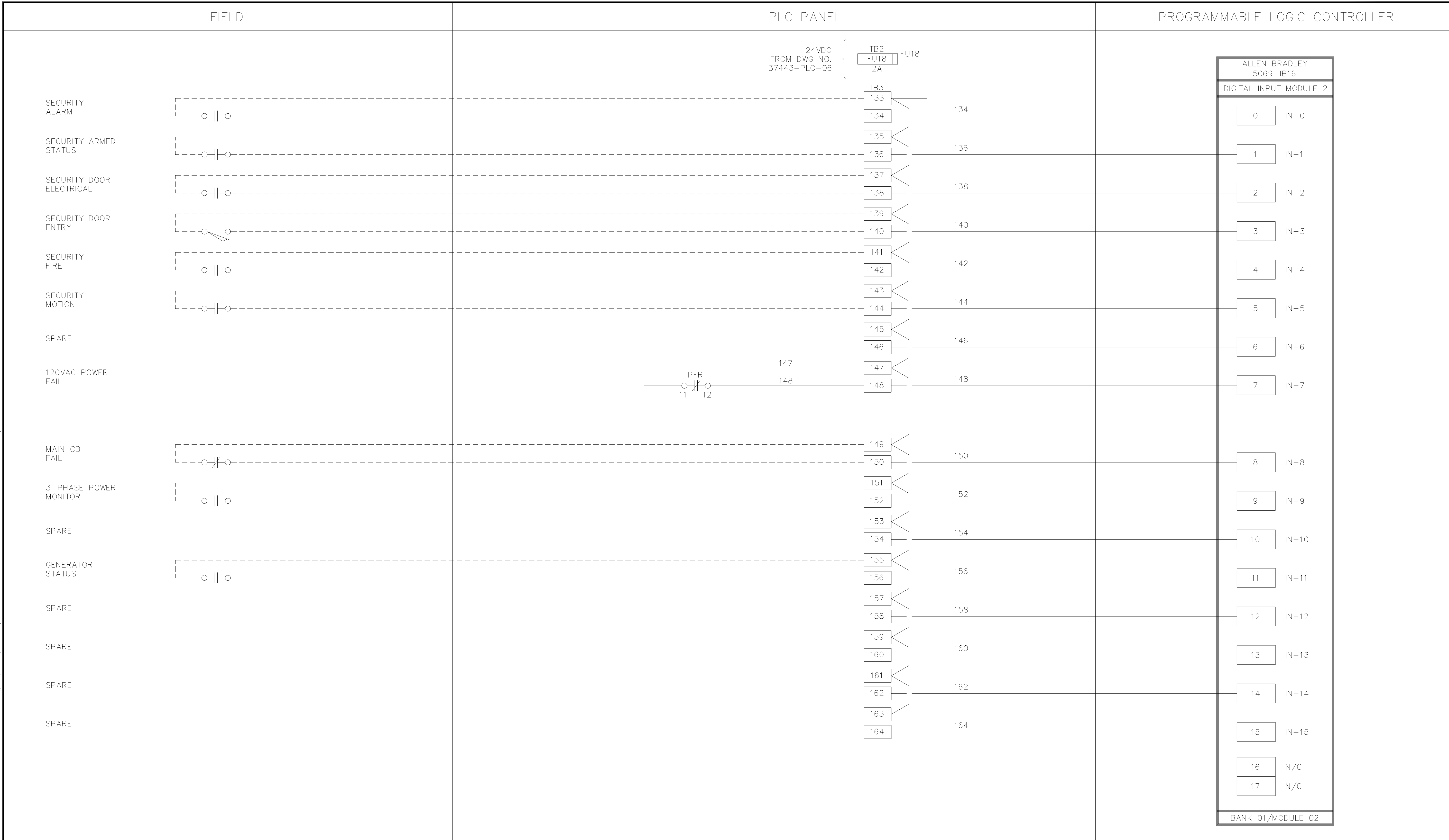
PEZZONI ENGINEERING, INC. CONSULTING ELECTRICAL ENGINEERS
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1 DIGITAL INPUT MODULE 1 WIRING DIAGRAM
SCALE: NTS



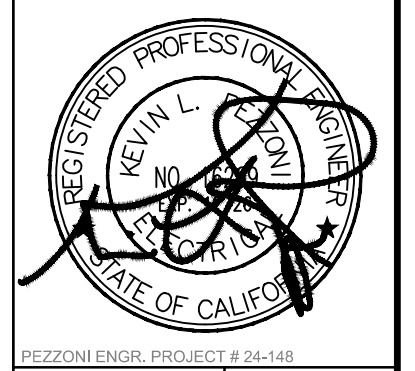
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WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC DIGITAL INPUT MODULE 2 DIAGRAM

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CITY OF TURLOCK, CA 95354
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JOB NO: 229223003

PROJECT NO:
PHASE: CD

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SHEET ED-2.5
27 OF 35



1 DIGITAL INPUT MODULE 2 WIRING DIAGRAM
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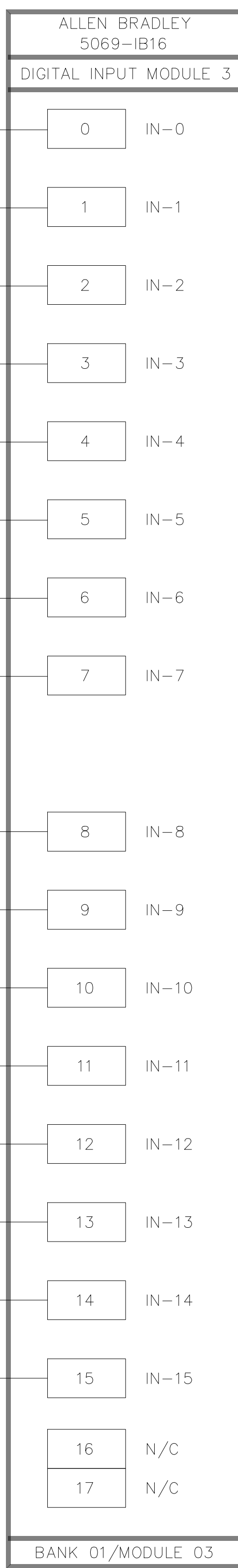
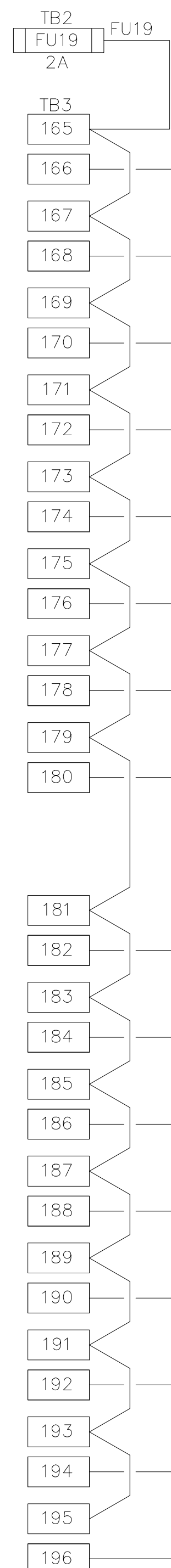
FIELD

PLC PANEL

PROGRAMMABLE LOGIC CONTROLLER

SPARE
SPARE
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37443-PLC-06



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WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC DIGITAL INPUT MODULE 3 DIAGRAM

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CLACKAMAS, OR 97015
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LICENSE NO:
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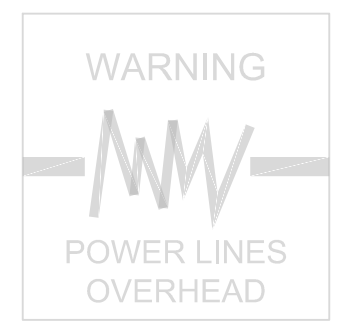
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JOB NO: 229223003

PROJECT NO:
PHASE: CD

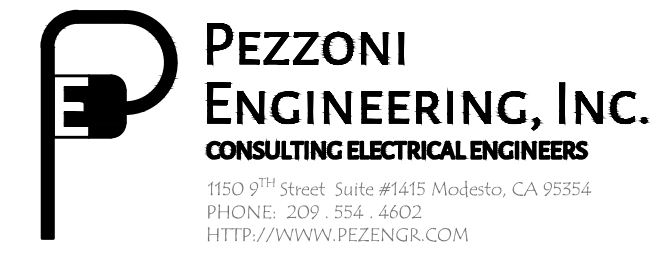
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SHEET **ED-2.6**

28 OF 35



1 DIGITAL INPUT MODULE 3 WIRING DIAGRAM
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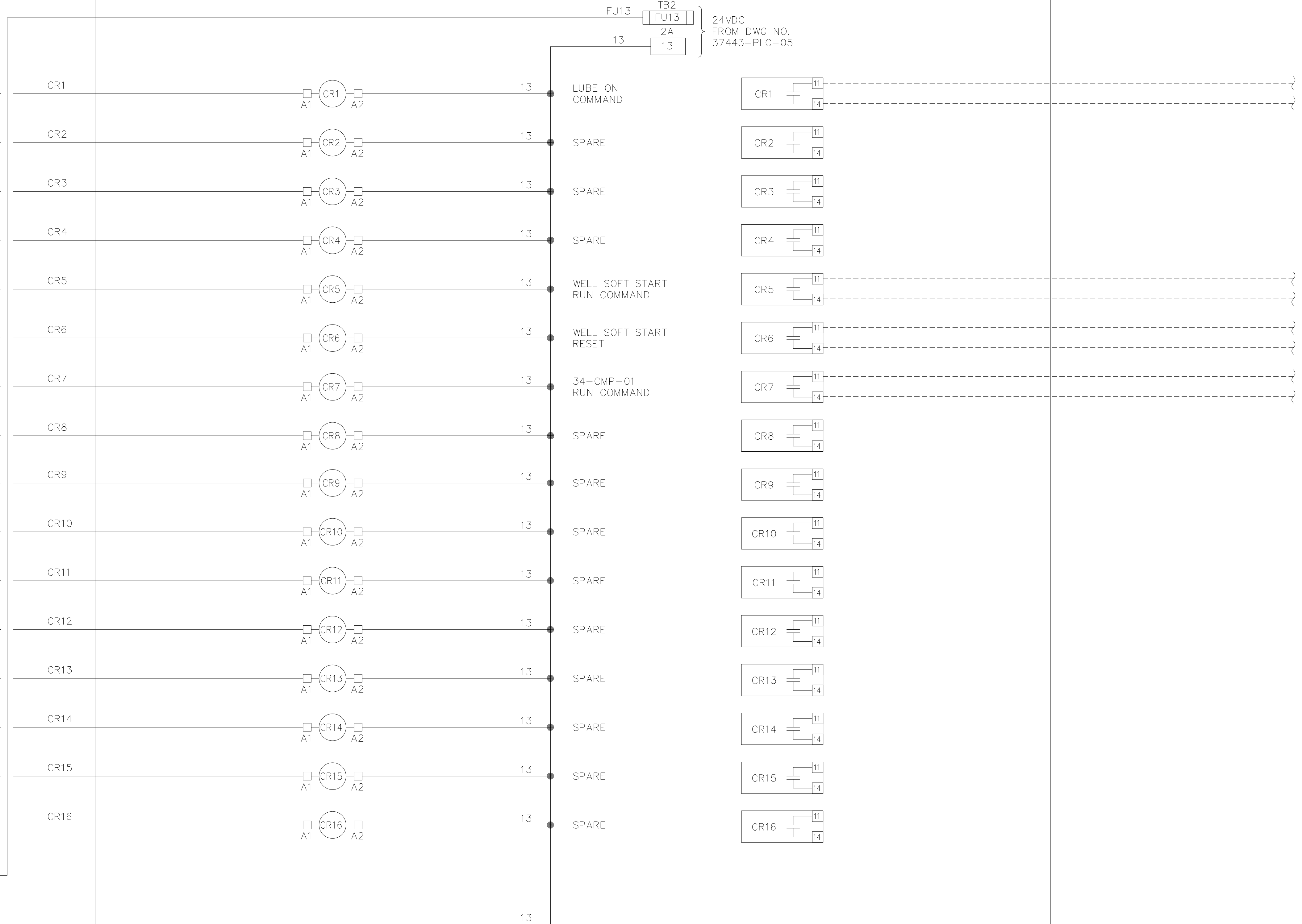
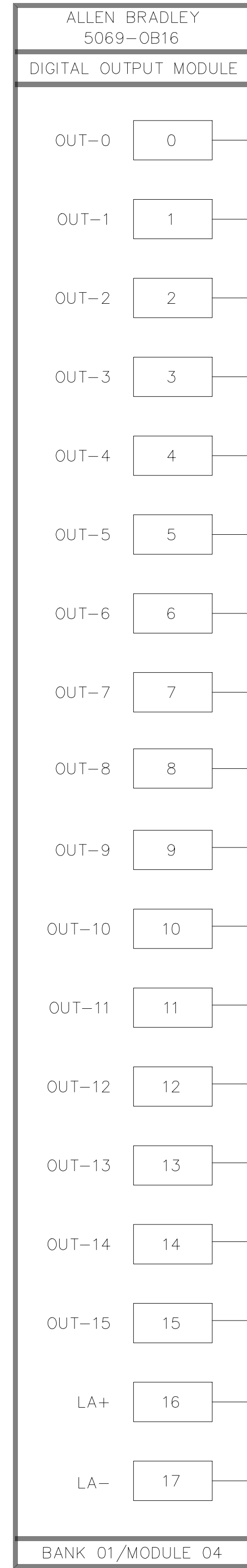
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12/06/24 4:30:50 PM F:\24\148 CITY OF TURLOCK CHLORINATION WELL #29\ENGR\SHEETS\148_ID-ED-2.7 DIGITAL OUTPUT DIAGRAM.DWG kpezzoni

PROGRAMMABLE LOGIC CONTROLLER

PLC PANEL

FIELD



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WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC DIGITAL OUTPUT DIAGRAM

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455 W FIR AVENUE
CLACKAMAS, OR 97015
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DESIGN ENGINEER:
K. PEZZONI
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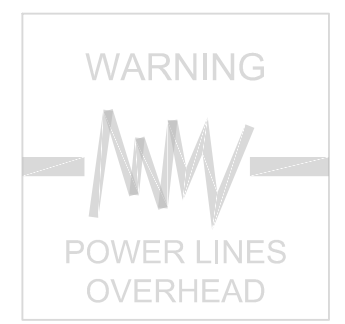
JOB NO: 229223003

PROJECT NO:
PHASE: CD

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SHEET **ED-2.7**

29 OF 35



1 DIGITAL OUTPUT MODULE WIRING DIAGRAM
SCALE: NTS



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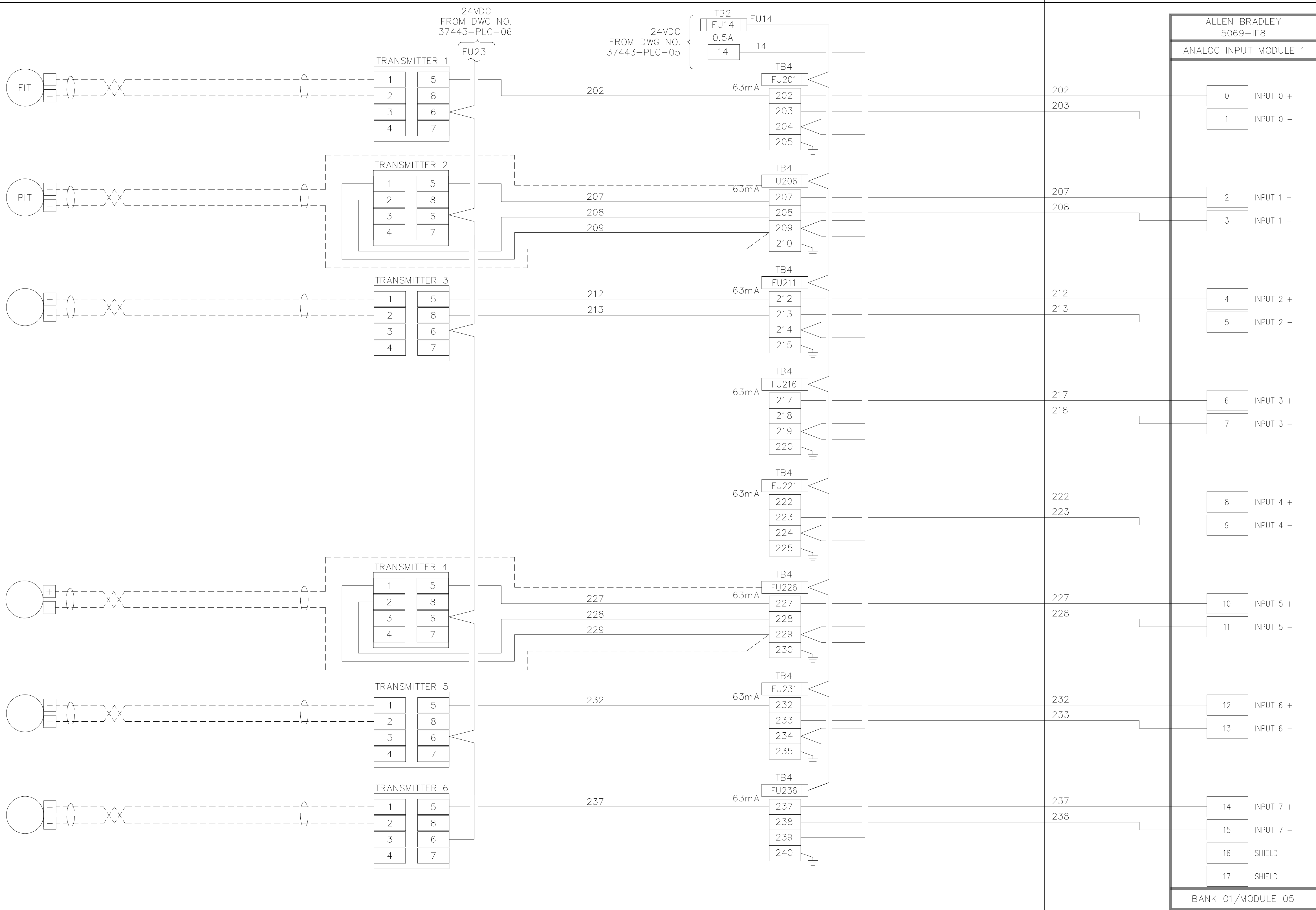
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FIELD

PLC PANEL

PROGRAMMABLE LOGIC CONTROLLER

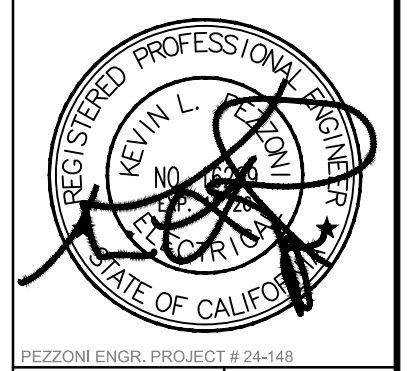
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- WELL PUMP PRESSURE PSI (4W)
- WELL PUMP CURRENT AMPS (4W)
- SPARE
- SPARE
- WELL LEVEL FEET (2W)
- CL2 PUMP SPEED - % (4W)
- CL2 RESIDUAL - mg/L (4W)



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WELL 29 CHLORINATION
 CITY OF TURLOCK
 CITY PROJECT NO. 23-046
 ELECTRICAL
PLC ANALOG INPUT MODULE 1 DIAGRAM

PROVOST & PRITCHARD
 455 W FIR AVENUE
 CLACKAMAS, OR 97005
 PHONE (503) 445-2700
 FAX (503) 445-2715
 www.provostandpritchard.com

DESIGN ENGINEER:
 K. PEZZONI
 LICENSE NO:
 16269

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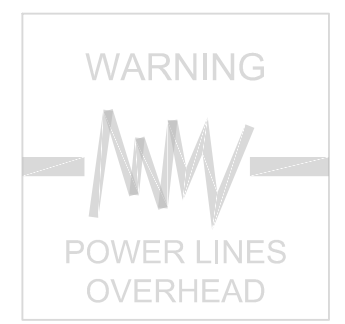
JOB NO: 22923003

PROJECT NO:
 PHASE: CD

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SHEET **ED-2.8**

30 OF 35



1 ANALOG INPUT MODULE 1 WIRING DIAGRAM
 SCALE: NTS



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FIELD

PLC PANEL

PROGRAMMABLE LOGIC CONTROLLER

SPARE

SPARE

SPARE

SPARE

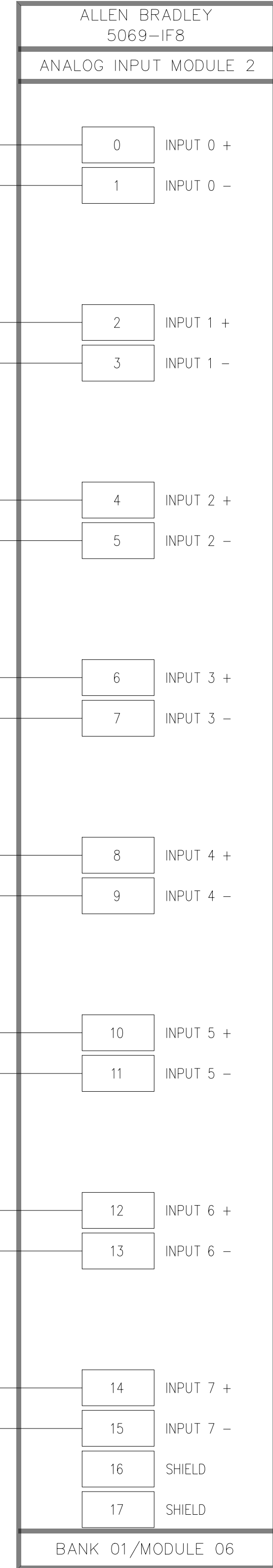
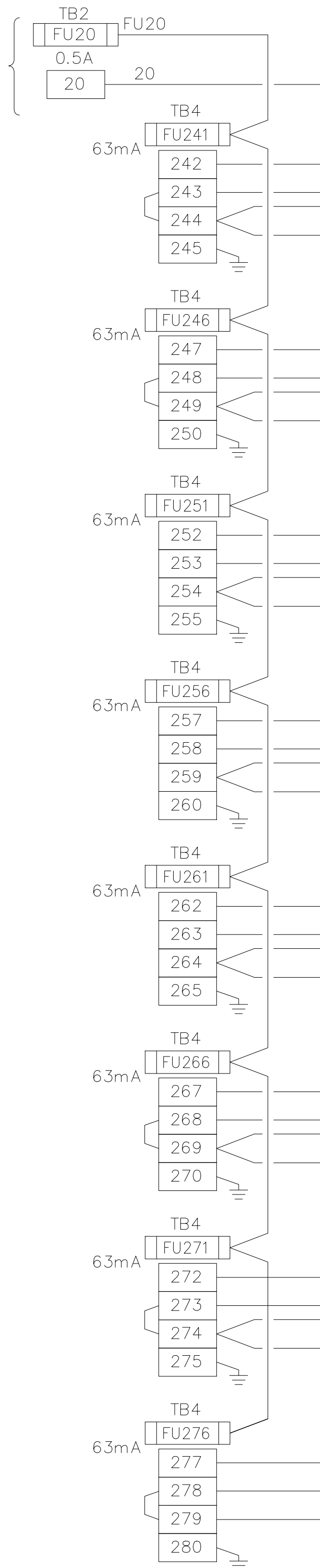
SPARE

SPARE

SPARE

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37443-PLC-06



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WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC ANALOG INPUT MODULE 2 DIAGRAM

PROVOST & PRITCHARD
455 W FIR AVENUE
CLAYTON, CA 94520
PHONE (925) 449-2700
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LICENSE NO:
16269

DRAFTED BY: CCM CHECKED BY: K. PEZZONI

DATE: DEC. 2024

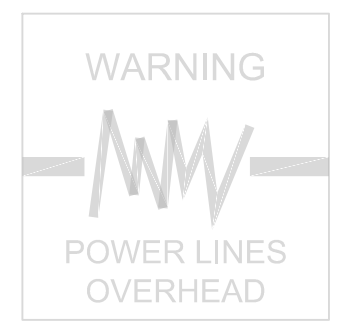
JOB NO: 22923003

PROJECT NO:
PHASE: CD

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SHEET **ED-2.9**

31 OF 35



1 ANALOG INPUT MODULE 2 WIRING DIAGRAM
SCALE: NTS

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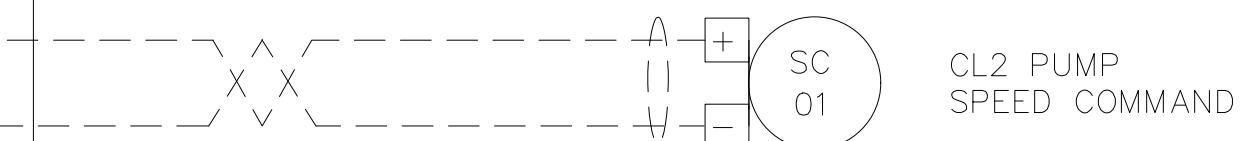
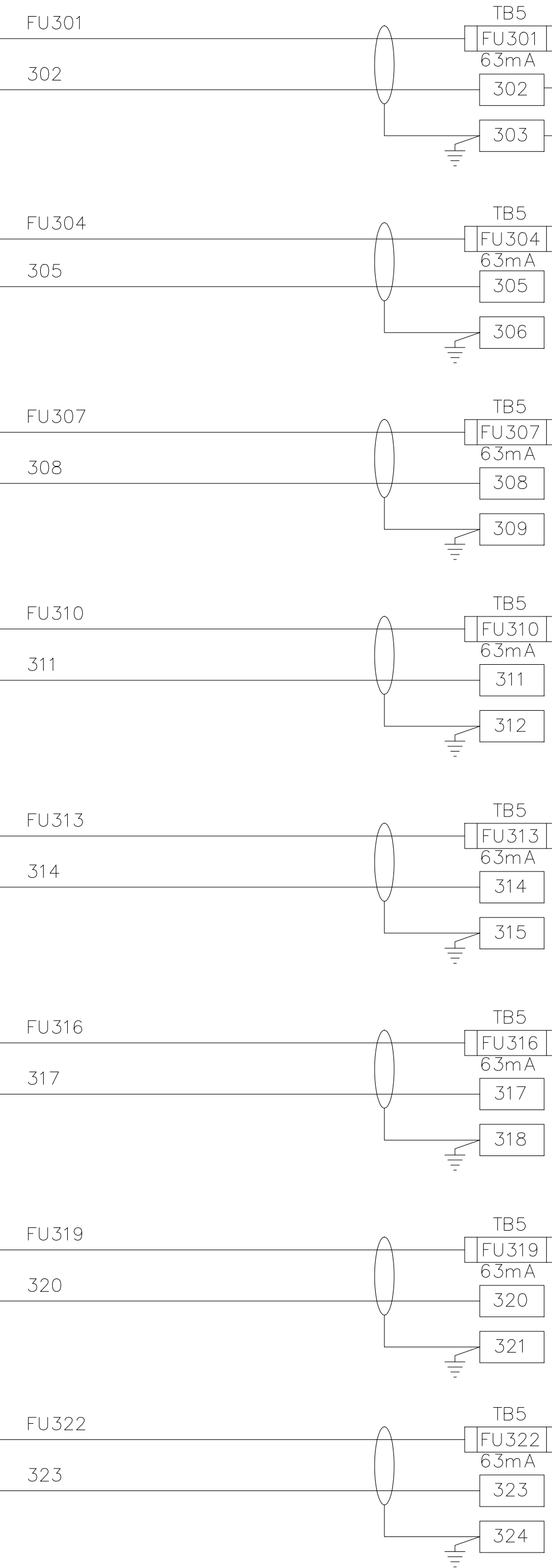
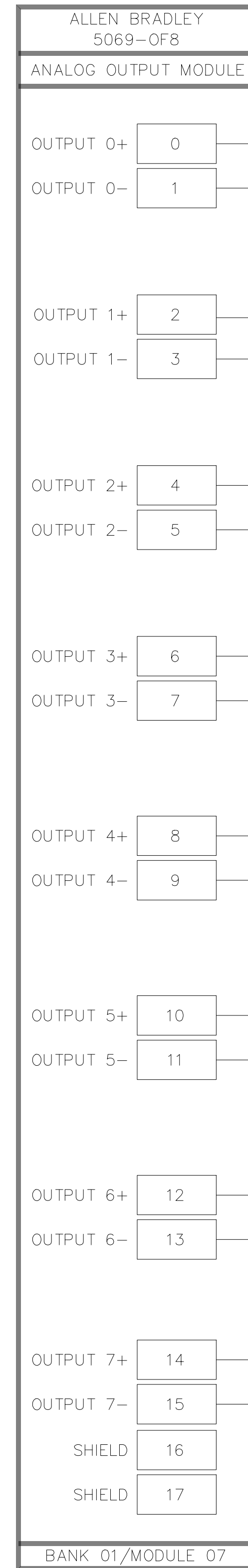
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PROGRAMMABLE LOGIC CONTROLLER

PLC PANEL

FIELD



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WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
PLC ANALOG OUTPUT MODULE DIAGRAM

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455 W FIR AVENUE
CLAYTON, CA 94520
PHONE (925) 448-2700
FAX (925) 448-2715
www.provostandpritchard.com

DESIGN ENGINEER:
K. PEZZONI
LICENSE NO:
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SHEET **ED-2.10**

32 OF 35



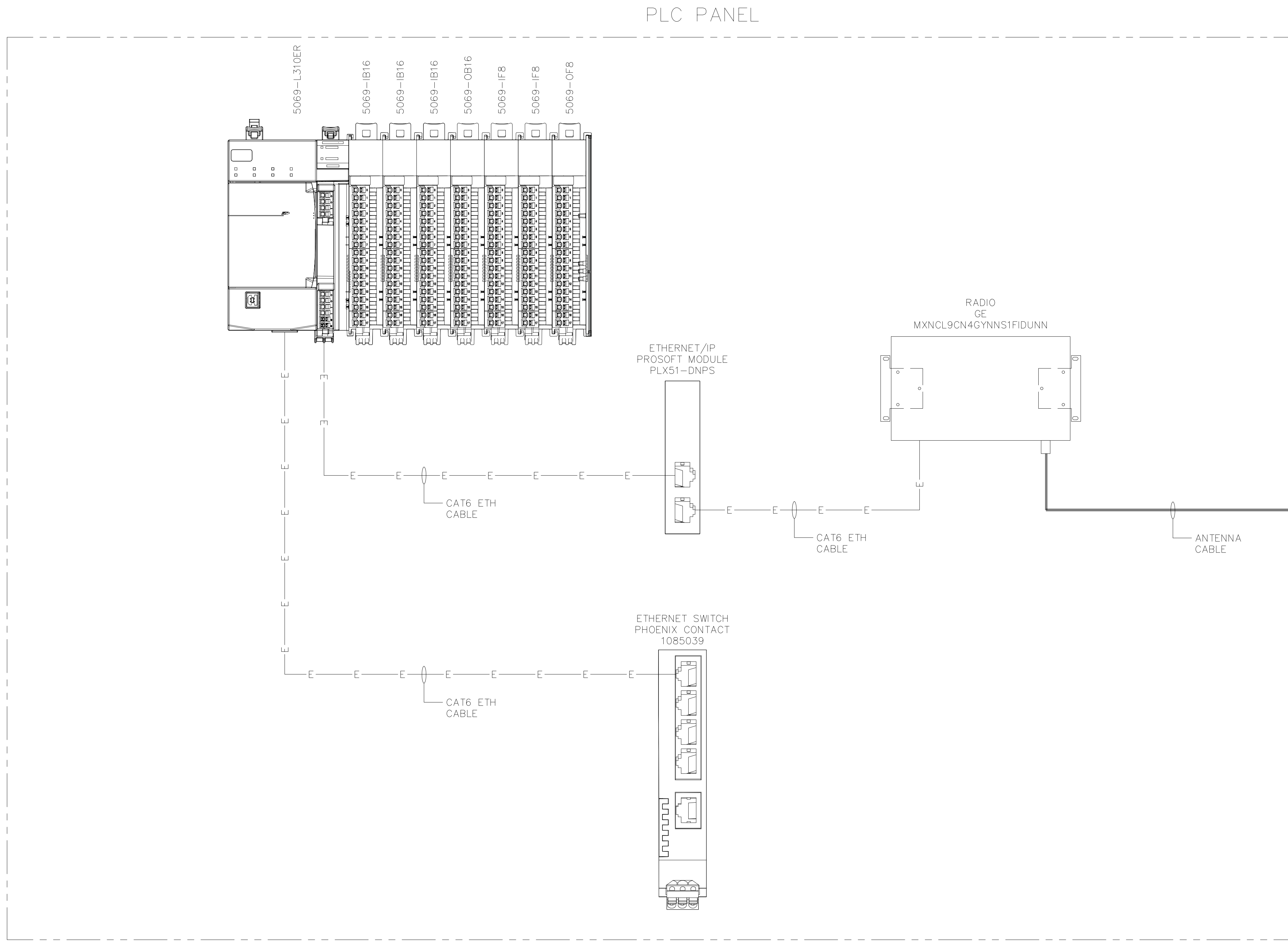
1 ANALOG OUTPUT MODULE WIRING DIAGRAM
SCALE: NTS



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1 PLC PANEL NETWORK DIAGRAM
SCALE: NTS



LEGEND
 —E—E—E— CAT6 ETH CABLE
 ——— ANTENNA CABLE

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DECEMBER 2024

WELL 29 CHLORINATION
 CITY OF TURLOCK
 CITY PROJECT NO. 23-046
ELECTRICAL
PLC PANEL NETWORK DIAGRAM

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SHEET **ED-2.11**

33 OF 35

REVISION
 No. BY DATE

REGISTERED PROFESSIONAL ENGINEER
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 PEZZONI ENGR. PROJ. 23-046

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OPERATOR IDENTIFICATION LETTERS SCHEDULE

	LOCAL-OFF-REMOTE (LOR)	STOP (SP)	START (ST)	HAND-OFF-AUTO (HOA)	OFF-ON (OO)	SELECT (SEL)	OPEN-STOP-CLOSE (OSC)	LOC. PEN-HOLD-CLOSE (PHC)	SEMI-AUTO-MANUAL (SAM)	LEAD-STANDBY (LS)	JOG OPEN-JOG CLOSE (JOC)	ONLINE-OFFLINE (OLO)	AUTO-MANUAL (AM)	FIXED RATE-LEVEL RATE (FLR)	OPEN-CLOSE (OC)	LOW-HIGH (LH)	RESET (RST)	SPEED (SPD)	START-STOP (SS)	(TEST) EMERGENCY STOP	BYPASS (BYP)	LEAD-LAG-STANDBY (LLS)	READY (RDY)	POSITION (POS)
HAND SWITCH/PILOT DEVICE	HSLOR	HSSP	HSST	HSHOA	HSOO	HSEL	HSOSC	HSJHC	HSSAM	HSLS	HSJOC	HSOLOL	HSAM	HSFLR	HSOC	HSLH	HSRST	HSSPD	HSSS	HSEST	HSBYP	HSLLS	HSRDY	HSPOS
SCADA/HMI ACTION TAG	HALOR	HASP	HAST	HAHOA	HAOO	HASEL	HAOSC	HASJHC	HASAM	HALS	HASJOC	HAOLOL	HAAM	HAFLR	HAOC	HALH	HARST	HASPD	HASS	HAEST	HABYP	HALLS	HARDY	HAPOS

INSTRUMENT IDENTIFICATION LETTERS SCHEDULE

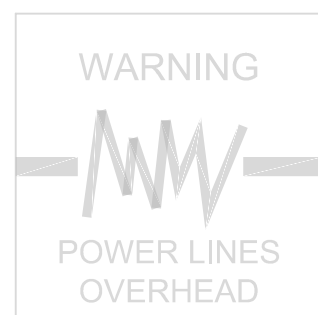
	ELEMENT	TRANSMITTER	TRANSMITTER INDICATING	INDICATOR	RECORDER	CONTROLLER	CONTROLLER INDICATING	CONTROLLER RECORDING	SWITCH	SWITCH LOW-LOW	SWITCH LOW	SWITCH HIGH	SWITCH HIGH-HIGH	SWITCH HIGH-LOW	ALARM LOW-LOW	ALARM LOW	ALARM HIGH	ALARM HIGH-HIGH	VALVE	GAUGE	LIGHT		
A	ANALYSIS	AE	AT	AIT	AI	AR	AC	AIC	ARC	AS	ASLL	ASL	ASH	ASHH	ASHL	AALL	AAL	AAH	AAHH			AL	
B	BURNER, COMBUST.	BE	BT	BIT	BI	BR	BC	BIC	BRC	BS	BSLL	BSL	BSH	BSHH	BSHL	BALL	BAL	BAH	BAHH			BL	
C	CONDUCTIVITY	CE	CT	CIT	CI	CR	CC	CIC	CRC	CS	CSLL	CSL	CSH	CSHH	CSHL	CALL	CAL	CAH	CAHH			CL	
D	DENSITY	DE	DT	DIT	DI	DR	DC	DIC	DRC	DS	DSLL	DSL	DSH	DSHH	DSHL	DALL	DAL	DAH	DAHH			DL	
F	FLOW	FE	FT	FIT	FI	FR	FC	FIC	FRC	FS	FSLL	FSL	FSH	FSHH	FSHL	FALL	FAL	FAH	FAHH	FCV	FG	FL	
FF	FLOW RATIO				FFI			FFC	FFIC													FFL	
G	GAUGE, DIMENSION																						
I	CURRENT		IT	IIT	II	IR	IC	IIC	IRC	IS	ISLL	ISL	ISH	ISHH		IALL	IAL	IAH	IAHH				IL
P	POWER																						
K	TIME				KI	KR	KC	KIC	KRC	KS	KSLL	KSL	KSH	KSHH		KALL	KAL	KAH	KAHH	KCV			KL
L	LEVEL	LE	LT	LIT	LI	LR	LC	LIC	LRC	LS	LSLL	LSL	LSH	LSHH		LALL	LAL	LAH	LAHH	LCV	LG		LL
M	MOISTURE, HUMIDITY	ME	MT	MIT	MI	MR	MC	MIC	MRC	MS	MSLL	MSL	MSH	MSHH		MALL	MAL	MAH	MAHH				ML
N	EMERG. SHUTDOWN																						
P	PRESSURE	PE	PT	PIT	PI	PR	PC	PIC	PRC	PS	PSLL	PSL	PSH	PSHH	PSHL	PALL	PAL	PAH	PAHH	PCV			PL
PD	PRESSURE DIFFERENTIAL				PDI	PDR	PDC	PDIC	PDRC	PDS	PDSLL	PDSL	PDSH	PDSHH	PDALL	PDAL	PDH	PDHH	PDCV				PDL
Q	QUANTITY	QE	QT	QIT	QI	QR				QS	QSLL	QSL	QSH	QSHH	QALL	QAL	QAH	QAAH					
R	RADIATION																						
S	SPEED	SE	ST	SIT	SI	SR	SC	SIC	SRC	SS	SSLL	SSL	SSH	SSHH		SALL	SAL	SAH	SAHH				
T	TEMPERATURE	TE	TT	TIT	TI	TR	TC	TIC	TRC	TS	TSLL	TSL	TSH	TSHH	TSHL	TALL	TAL	TAH	TAHH	TCV			TL
TD	TEMPERATURE DIFFERENTIAL		TDT	TDIT	TDI	TDR	TDC	TDIC	TDRC	TDS	TDSLL	TDSL	TDSH	TDSHH	TDALL	TDAL	TDH	TDHH	TDCV				TDL
U	MULTI-VARIABLE				UI	UR	UC	UIC	URC	US													UL
V	VISCOSITY	VE	VT	VIT	VI	VR	VC	VIC	VRC	VS	VSLL	VSL	VSH	VSHH		VALL	VAL	VAH	VAHH				VL
W	WEIGHT	WE	WT	WIT	WI	WR				WS	WSLL	WSL	WSH	WSHH		WALL	WAL	WAH	WAHH				WL
U	UNCLASSIFIED	XE	XT	XIT	XI	XR	XC	XIC	XRC	XS	XSLL	XSL	XSH	XSHH	XALL	XAL	XAH	XAAH	XCV	XG			XL
XV	VIBRATION	XVE	XVT		XVI	XVR				XVS			XVSH	XVSHH		XVAH	XVAHH						XVL
Y	STATUS				YI																		YL
Z	POSITION	ZE	ZT	ZIT	ZI					ZS													ZL

GENERAL PROCESS INSTRUMENT DIAGRAM SYMBOLS

MAIN PROCESS FLOW		HMI (HUMAN MACHINE INTERFACE)	
SECONDARY PROCESS FLOW		PILOT LIGHT R =RED, A =AMBER, G =GREEN	
INSTRUMENT OR CONNECTION TO PROCESS		FLOWMETER	
PNEUMATIC SYMBOL		BLOWER/FAN	
ELECTRICAL SIGNAL		VERTICAL PUMP	
GUIDE ELECTROMAGNETIC OR SONIC SIGNAL		CENTRIFUGAL PUMP	
NON-GUIDE ELECTROMAGNETIC OR SONIC SIGNAL		SUBMERSIBLE PUMP	
FIBER OPTIC ETHERNET		CHEMICAL FEED/DOSING PUMP	
COPPER ETHERNET			
REMOTE I/O COMM BUS			
INTERNAL SYSTEM/PROGRAM LINK			
ELECTRICAL FEED/CONNECTION			
CONTINUATION TAG (1) UNIQUE I.D. (2) CONTINUATION FROM SHEET # (3) CONTINUATION TO SHEET #			
CONTINUATION TAG (1) CONTINUATION TO SHEET #			
EQUIPMENT TAG			
VALVE (GENERAL)			
VALVE (GATE)			
CHECK VALVE (GENERAL)			
SOLENOID VALVE			

INSTRUMENT DEVICE & FUNCTION SYMBOLS

DESCRIPTION	SYMBOL	DESCRIPTION FIELDS	DESCRIPTION FIELD (1)	DESCRIPTION FIELD (2)	DESCRIPTION FIELD (3)	DESCRIPTION FIELD (4)	DESCRIPTION FIELD (5)
SCADA/HMI		(1) TAG LOOP # (2) FUNCTION DESCRIPTION 1 (3) FUNCTION DESCRIPTION 2	SEE INSTRUMENT & OPERATOR IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	ACTION ALARM NUM =NUMBER SET =SET POINT STATUS TREND	DESCRIPTION	DESCRIPTION
MCC/PLC HMI		(1) TAG LOOP # (2) FUNCTION DESCRIPTION 1 (3) LOCATION	SEE INSTRUMENT & OPERATOR IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	ACTION ALARM NUM =NUMBER SET =SET POINT STATUS	DESCRIPTION	DESCRIPTION
CONTROL ELEMENT OPERATOR ACCESSIBLE		(1) TAG LOOP # (2) FUNCTION DESCRIPTION 1 (3) FUNCTION DESCRIPTION 2	SEE OPERATOR IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	LCP =LOCAL CONTROL PANEL MCC =MOTOR CONTROL CENTER VCP =VENDOR/3RD PARTY PANEL	DESCRIPTION	DESCRIPTION
INSTRUMENT PRIMARY ELEMENT		(1) TAG LOOP # (2) FUNCTION DESCRIPTION 1 (3) FUNCTION DESCRIPTION 2	SEE INSTRUMENT IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	INSTRUMENT READING VALUE/TYPE	DESCRIPTION	DESCRIPTION
INSTRUMENT PRIMARY ELEMENT OPERATOR ACCESSIBLE		(1) TAG LOOP # (2) FUNCTION DESCRIPTION 1 (3) FUNCTION DESCRIPTION 2	SEE INSTRUMENT IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	INSTRUMENT READING VALUE/TYPE	DESCRIPTION	DESCRIPTION
INSTRUMENT AUXILIARY ELEMENT OPERATOR ACCESSIBLE		(1) TAG LOOP # (2) FUNCTION DESCRIPTION 1 (3) FUNCTION DESCRIPTION 2	SEE INSTRUMENT & OPERATOR IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	INSTRUMENT READING VALUE/TYPE	DESCRIPTION	DESCRIPTION
INSTRUMENT PRIMARY ELEMENT OPERATOR INACCESSIBLE		(1) TAG LOOP # (2) FUNCTION DESCRIPTION 1 (3) FUNCTION DESCRIPTION 2	SEE INSTRUMENT & OPERATOR IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	INSTRUMENT READING VALUE/TYPE	DESCRIPTION	DESCRIPTION
INSTRUMENT AUXILIARY ELEMENT OPERATOR INACCESSIBLE		(1) TAG LOOP # (2) FUNCTION DESCRIPTION 1 (3) FUNCTION DESCRIPTION 2	SEE INSTRUMENT & OPERATOR IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	INSTRUMENT READING VALUE/TYPE	DESCRIPTION	DESCRIPTION
PLC I/O		(1) TAG LOOP # (2) I/O FUNCTION DESCRIPTION 1 (3)	SEE INSTRUMENT & OPERATOR IDENTIFICATION LETTERS SCHEDULE	IDENTIFICATION NUMBER PER PLANS	SYMBOL TYPE △ DISCRETE INPUT ▽ DISCRETE OUTPUT ▲ ANALOG INPUT ▼ ANALOG OUTPUT	DESCRIPTION	N.A.



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DECEMBER 2024



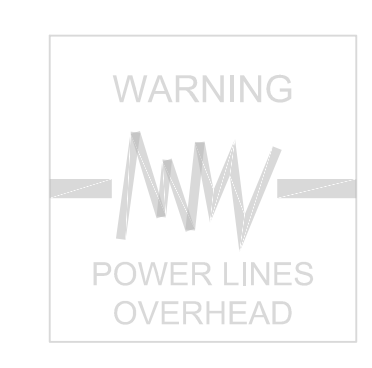
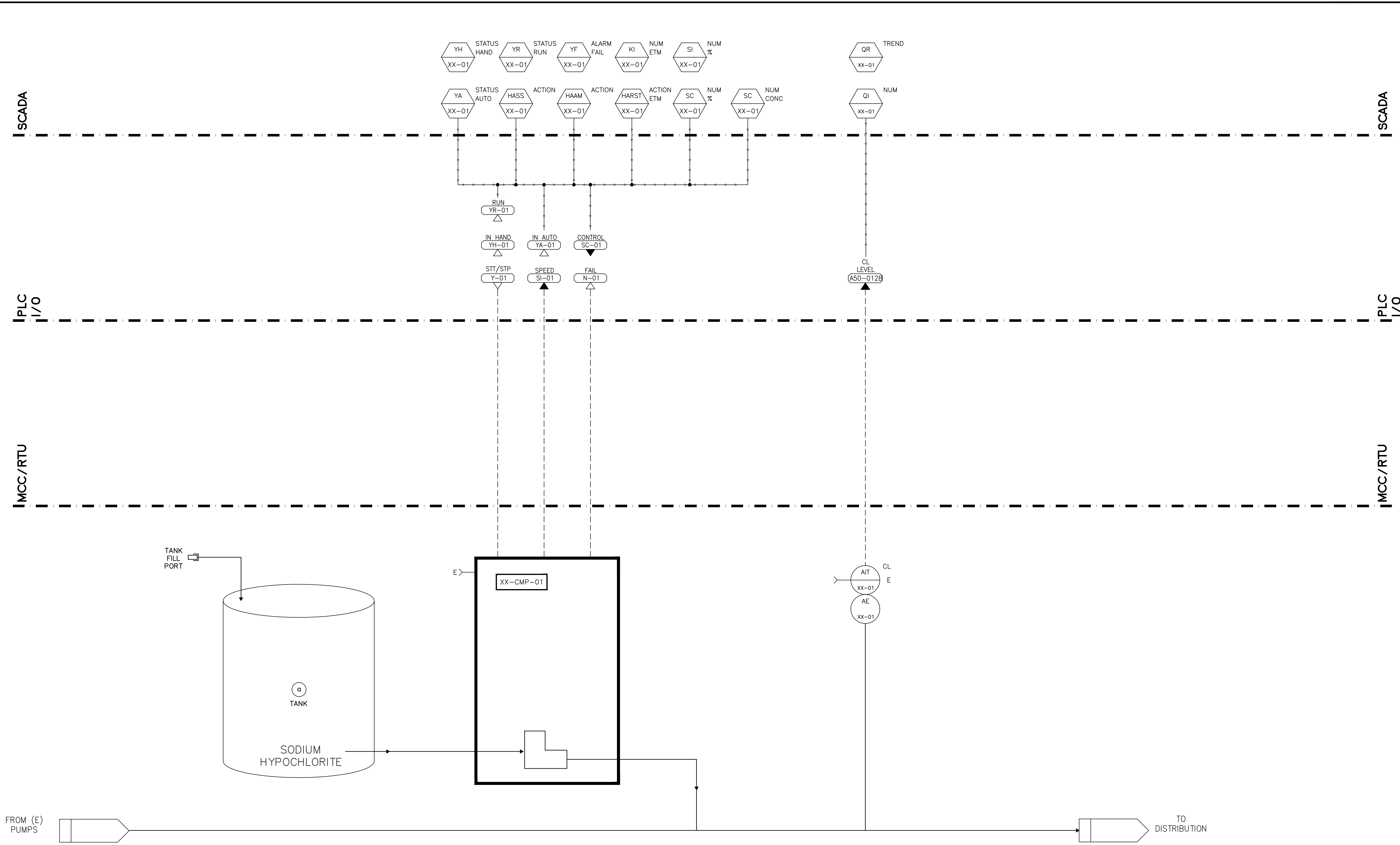
PEZZONI ENGR. PROJECT # 24-046

WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
INSTRUMENT SYMBOLS

PROVOST & PRITCHARD
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CLARKVILLE, CA 95926
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DESIGN ENGINEER:
K. PEZZONI
LICENSE NO:
16269
DRAFTED BY:
CCM
CHECKED BY:
K. PEZZONI

DATE: DEC. 2024
JOB NO: 229223003
PROJECT NO:
PHASE: CD
0 1" = 1' SCALE
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.
SHEET **N-1.0**



ISSUED FOR BIDDING PURPOSES
DECEMBER 2024

WELL 29 CHLORINATION
CITY OF TURLOCK
CITY PROJECT NO. 23-046
ELECTRICAL
INSTRUMENT CONTROLS

DESIGN ENGINEER:
K. PEZZONI
LICENSE NO:
16269

DRAFTED BY: CCM
DATE: DEC. 2024

CHECKED BY: K. PEZZONI
JOB NO: 229223003

PROJECT NO:
PHASE: CD

ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET **N-1.1**

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KEVIN L. PEZZONI
STATE OF CALIFORNIA
PEZZONI ENGR. PROJECT # 23-046

REVISION
BY DATE

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