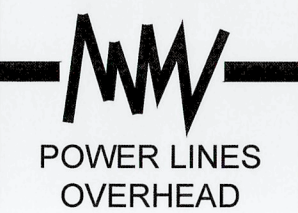




Know what's below.
Call before you dig.

WARNING



TOPOGRAPHY NOTE

TOPOGRAPHY SHOWN WAS COLLECTED BY PROVOST & PRITCHARD CONSULTING GROUP DURING A FIELD SURVEY CONDUCTED IN JANUARY OF 2025.

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

BOUNDARY NOTE

PROJECT BENCHMARK
FD CUT IN CURB ON NORTH SIDE OF WILMOT AVENUE
ELEVATION = 112.50' NAVD88

CONTROL TABLE CCS ZONE 3(NAD83) STATE PLANE COORDINATES (USFT) VERT. DATUM=NAVD88				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	1847865.70	6458525.56	112.50	FD CUT
102	1847843.97	6458564.64	113.23	FD MAG NAIL
103	1847820.62	6458579.19	112.76	FD CUT
104	1847866.49	6458399.77	112.02	FD CUT

SPECIAL NOTE

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

SITE SAFETY AND PROTECTION NOTES

THE DUTY OF THE ENGINEER, OWNER OR ITS AGENTS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE AND THE UNDERTAKING OF INSPECTIONS OR THE GIVING OF INSTRUCTIONS AS AUTHORIZED HEREIN IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF THE ACTUAL CONSTRUCTION NOR MAKE THE ENGINEER, OWNER OR ITS AGENTS RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

THE CONTRACTOR SHALL HAVE AT THE WORK SITE, COPIES OR SUITABLE EXTRACTS OF CONSTRUCTION SAFETY ORDERS, ISSUED BY CAL-OSHA. CONTRACTOR SHALL COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, PROMULGATED BY THE SECRETARY OF LABOR UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, AS SET FORTH IN TITLE 29 C.F.R.

TO PROTECT THE LIVES AND HEALTH OF CONTRACTOR'S EMPLOYEES UNDER THE CONTRACT, THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., AND SHALL MAINTAIN AN ACCURATE RECORD OF ALL CASES OF DEATH, OCCUPATIONAL DISEASE, AND INJURY REQUIRING MEDICAL ATTENTION OR CAUSING LOSS OF TIME FROM WORK, ARISING OUT OF AND IN THE COURSE OF EMPLOYMENT OR WORK UNDER THE CONTRACT.

THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF CONTRACTOR'S FACILITIES, APPLIANCES, AND METHODS AND FOR ANY DAMAGE, WHICH MAY RESULT FROM THEIR FAILURE OR THEIR IMPROPER CONSTRUCTION, MAINTENANCE OR OPERATION.

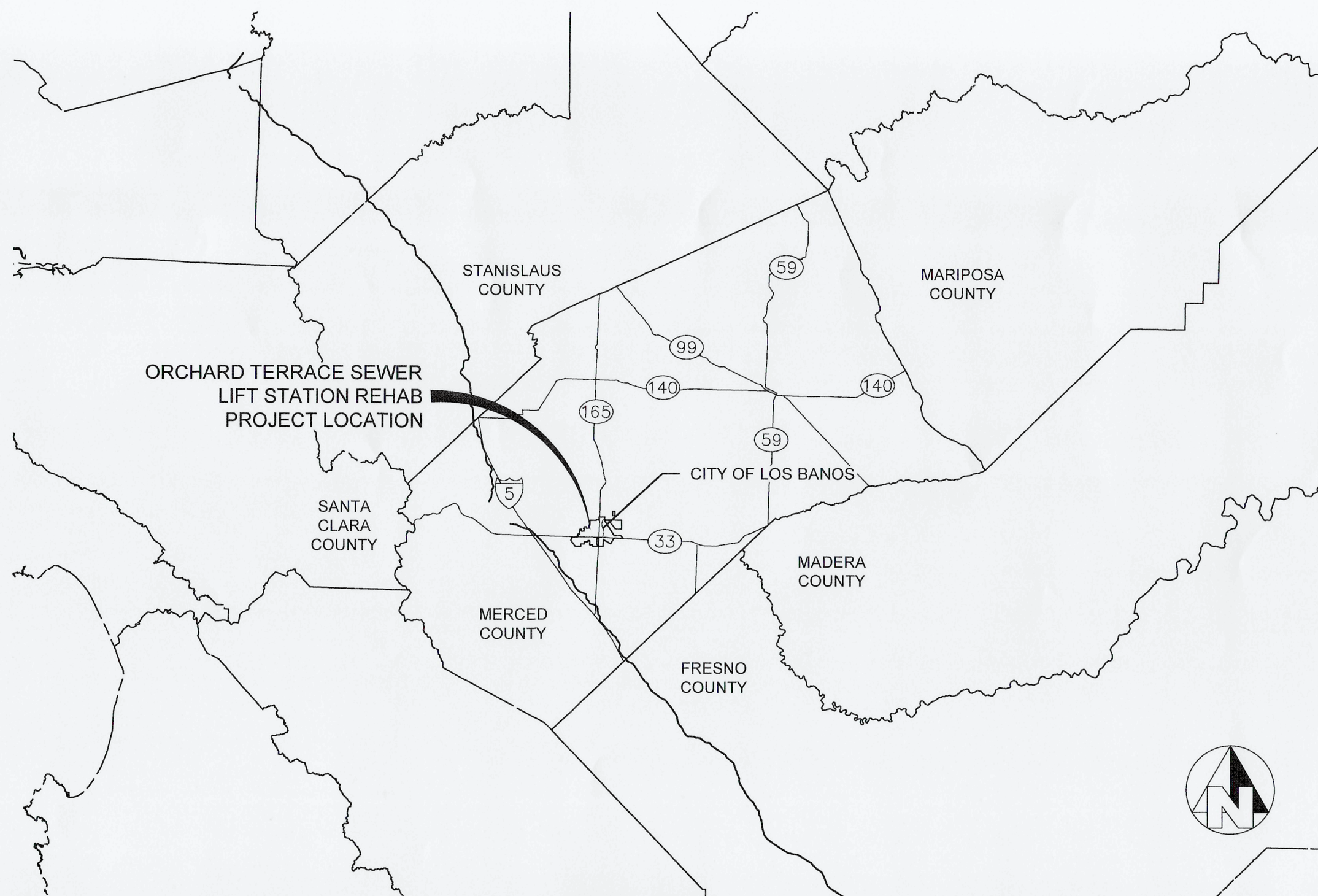
THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, PROVOST & PRITCHARD CONSULTING GROUP, AND THEIR RESPECTIVE AGENTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER, ENGINEER, OR THEIR RESPECTIVE AGENTS.

THE OWNER AND ITS AGENTS' SITE RESPONSIBILITIES ARE LIMITED SOLELY TO THE ACTIVITIES OF THEIR EMPLOYEES ON SITE. THESE RESPONSIBILITIES SHALL NOT BE INFERRED BY ANY PARTY TO MEAN THAT THE OWNER OR ITS AGENTS HAVE RESPONSIBILITY FOR SITE SAFETY, SAFETY IN, ON, OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE. THE CONTRACTOR'S METHODS OF WORK PERFORMANCE, SUPERINTENDENCE AND THE CONTRACTOR'S EMPLOYEES, AND SEQUENCING OF CONSTRUCTION ARE ALSO THE SOLE AND EXCLUSIVE RESPONSIBILITIES OF THE CONTRACTOR ALONE.

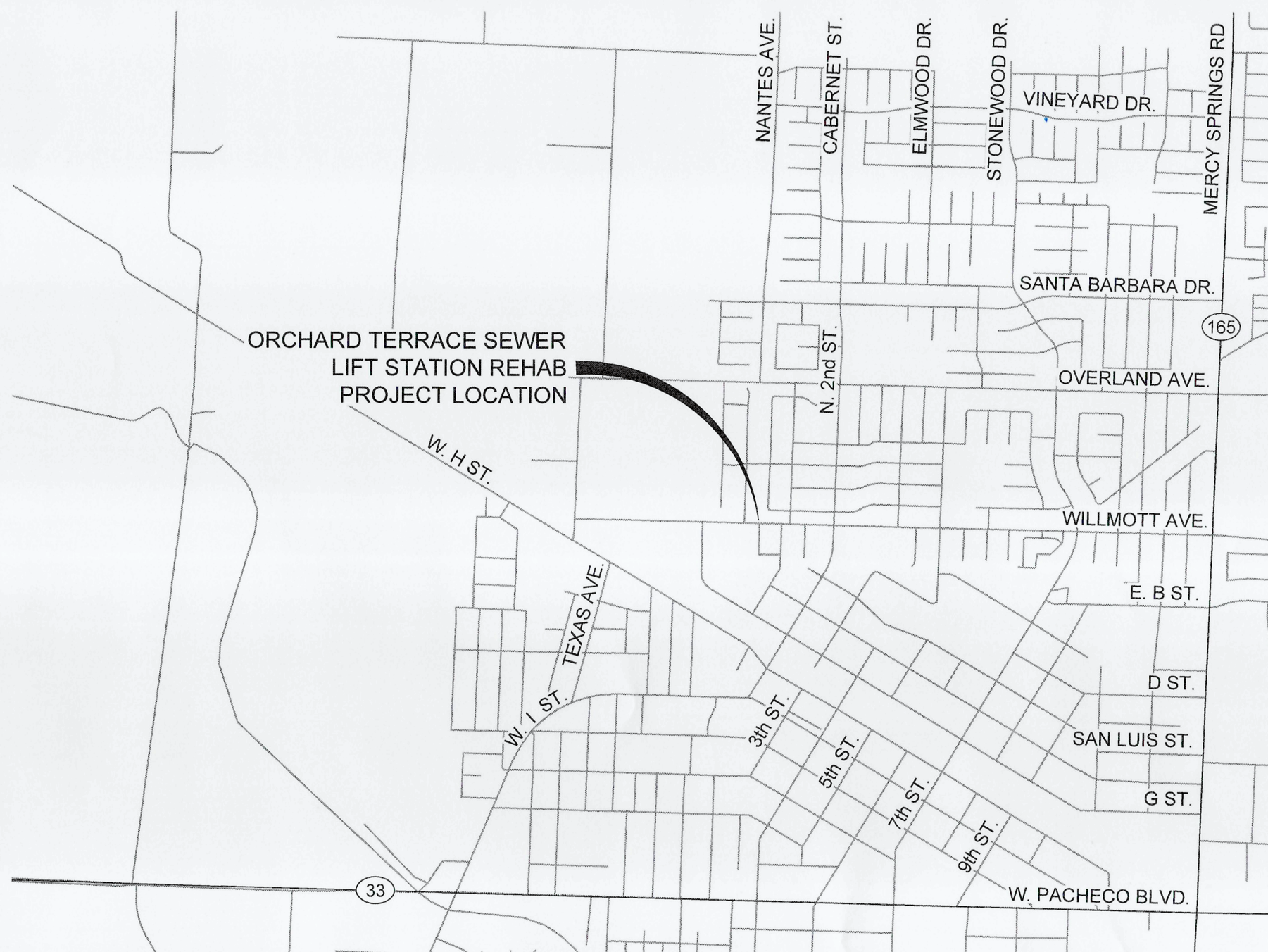
CITY OF LOS BANOS

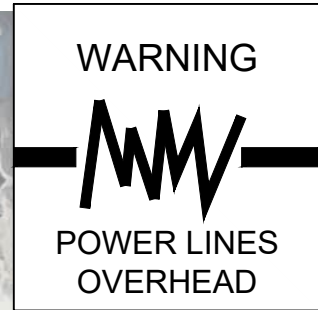
MERCED COUNTY

ORCHARD TERRACE SEWER LIFT STATION REHABILITATION



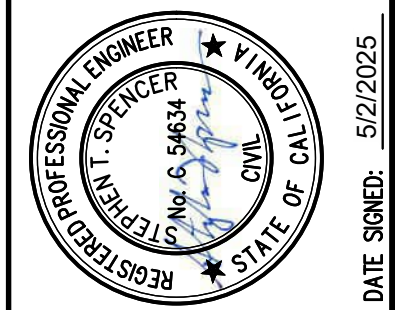
SITE MAP
NOT TO SCALE





COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC. THE USER OF THIS DOCUMENT AGREES TO HOLD PROVOST & PRITCHARD ENGINEERING, INC. HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DOCUMENT. THE USER SHALL HOLD PROVOST & PRITCHARD ENGINEERING, INC. HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DOCUMENT.

BID SET
05/02/2025

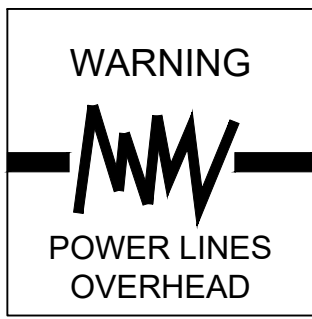
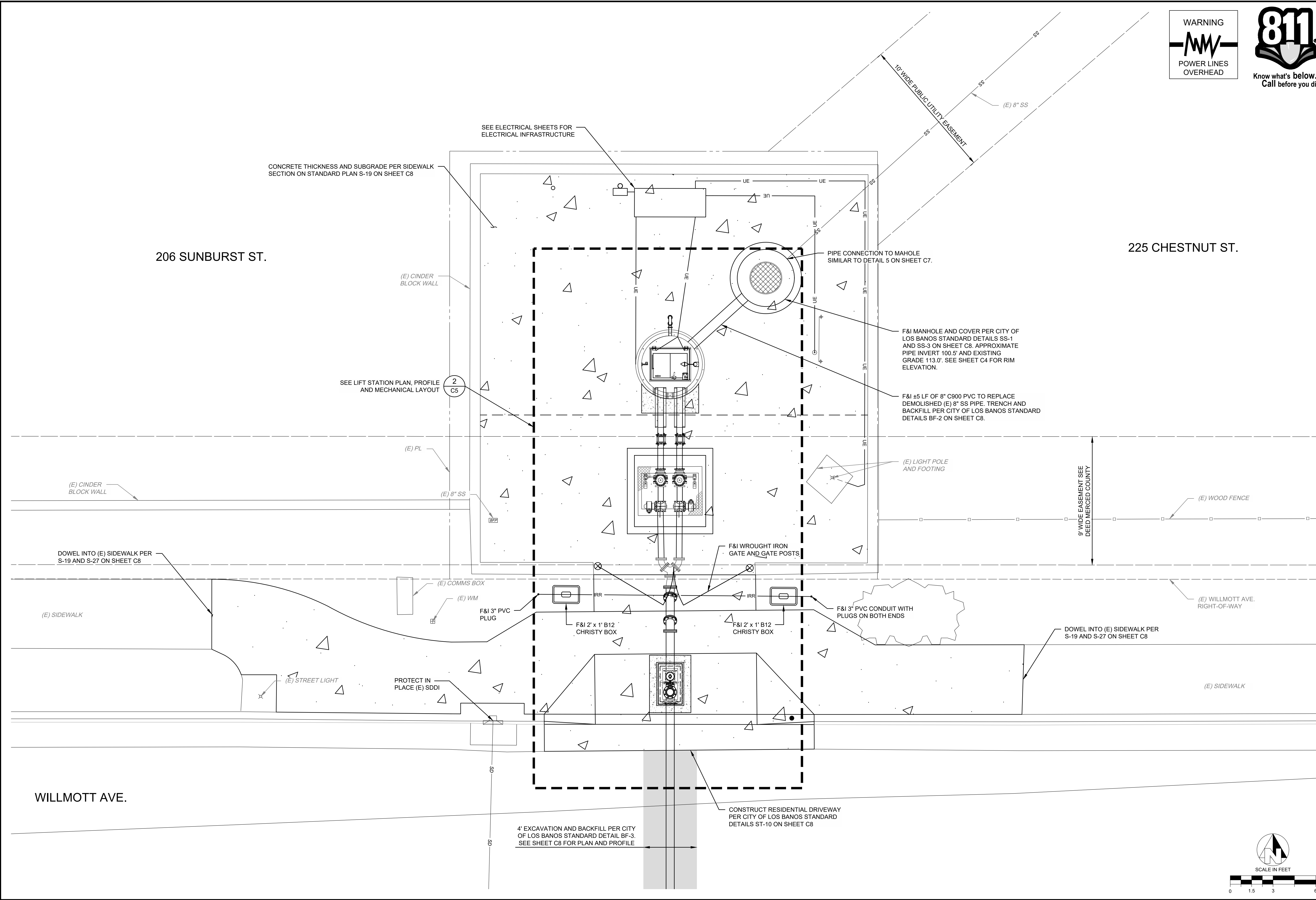


ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
CONSTRUCTION PLANS
TOPOGRAPHY AND DEMOLITION PLAN

PROVOST & PRITCHARD
249 W. PACIFIC BLVD., SUITE B
LOS BANOS, CA 93801
PHONE (209) 824-1885
FAX (209) 824-1885
www.provostandpritchard.com

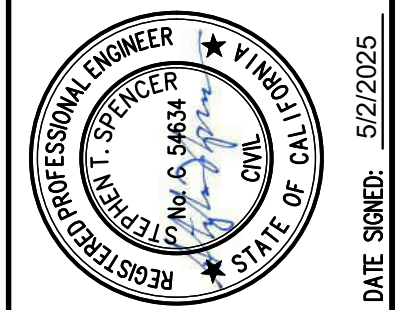
DESIGN ENGINEER:
STEVE SPENCER
LICENSE NO.:
CE 54634
DRAFTED BY: LAJ
CHECKED BY: JMG
DATE: 05/02/2025
JOB NO: 350124010
PROJECT NO: 350124010
PHASE: DES
0 1"
ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.
SHEET
C2

2 OF 18



COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED. THIS PLAN IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC. THE THIRD PARTY SHALL HOLD THE FIRM OF PROVOST & PRITCHARD ENGINEERING, INC. HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS PLAN. PROVOST & PRITCHARD ENGINEERING, INC. IS A LEGAL FIRM ASSOCIATED WITH DEFENDING AND ENFORCING THESE RIGHTS.

BID SET
05/02/2025



ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
CONSTRUCTION PLANS
LIFT STATION SITE PLAN AND
HORIZONTAL CONTROL

PROVOST & PRITCHARD
249 W. PACIFIC BLVD., SUITE B
LOS BANOS, CA 93801
PHONE (209) 824-1885
FAX (209) 824-1885
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER

LICENSE NO:
CE 54634

DRAFTED BY: LAJ
CHECKED BY: JMG

DATE: 05/02/2025

JOB NO: 350124010

PROJECT NO: 350124010

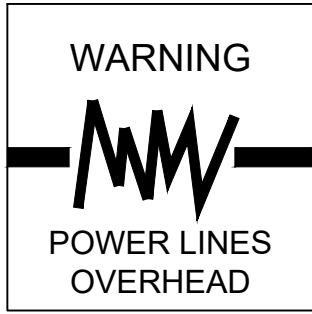
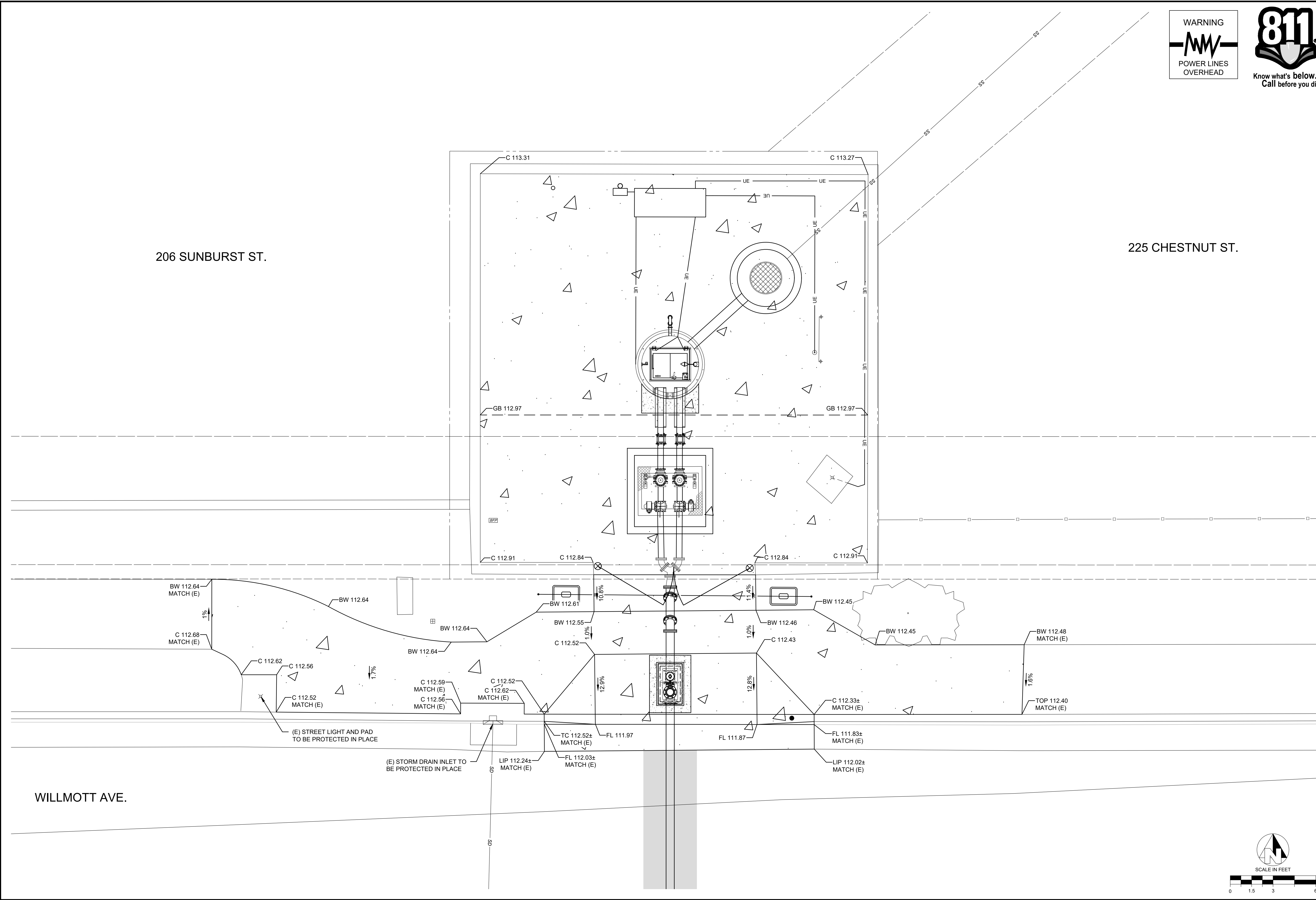
PHASE: DES

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

SHEET
C3

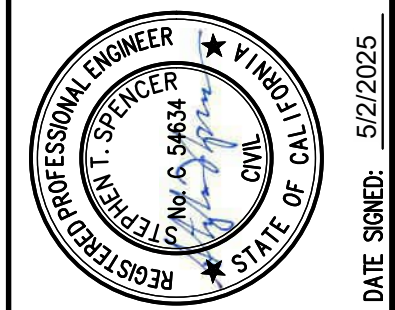
3 OF 18

5/2/2025 1:44 PM G:\Los Banos_City of 350124010-Orchard Terrace Sewer Lift Station Construction Plans\350124010-Orchard Terrace Sewer Lift Station Site Plan and Horizontal Control.dwg -Dylan Morales



COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED. THIS PLAN IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC. THE THIRD PARTY SHALL HOLD THE FIRM OF PROVOST & PRITCHARD ENGINEERING, INC. HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS PLAN. PROVOST & PRITCHARD ENGINEERING, INC.'S LEGAL FEES ASSOCIATED WITH DEFENDING AND ENFORCING THESE RIGHTS.

BID SET
05/02/2025



ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
CONSTRUCTION PLANS
LIFT STATION SITE GRADING PLAN

PROVOST & PRITCHARD
249 W. PACIFIC BLVD., SUITE B
LOS BANOS, CA 93801
PHONE (209) 824-1885
FAX (209) 824-1885
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER

LICENSE NO:
CE 54634

DRAFTED BY: LAJ
CHECKED BY: JMG

DATE: 05/02/2025

JOB NO: 350124010

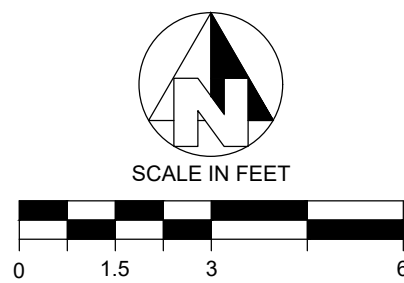
PROJECT NO: 350124010

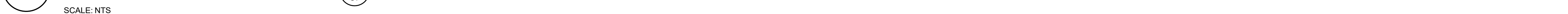
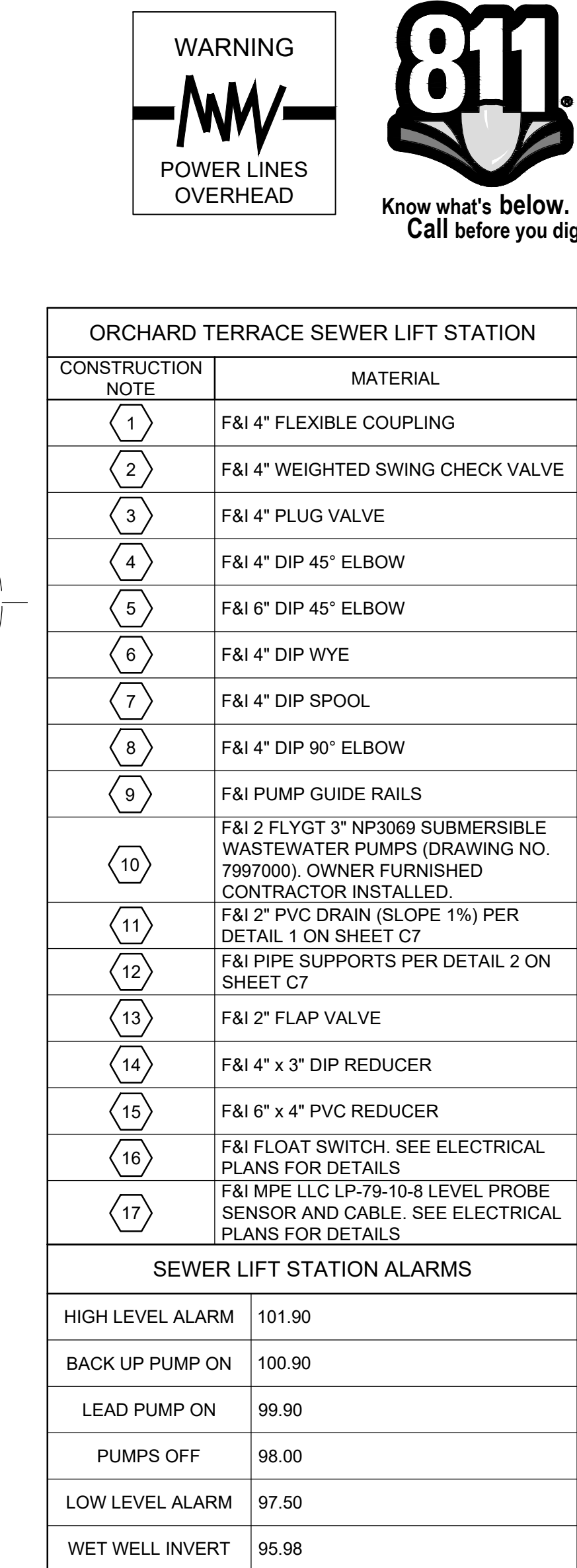
PHASE: DES

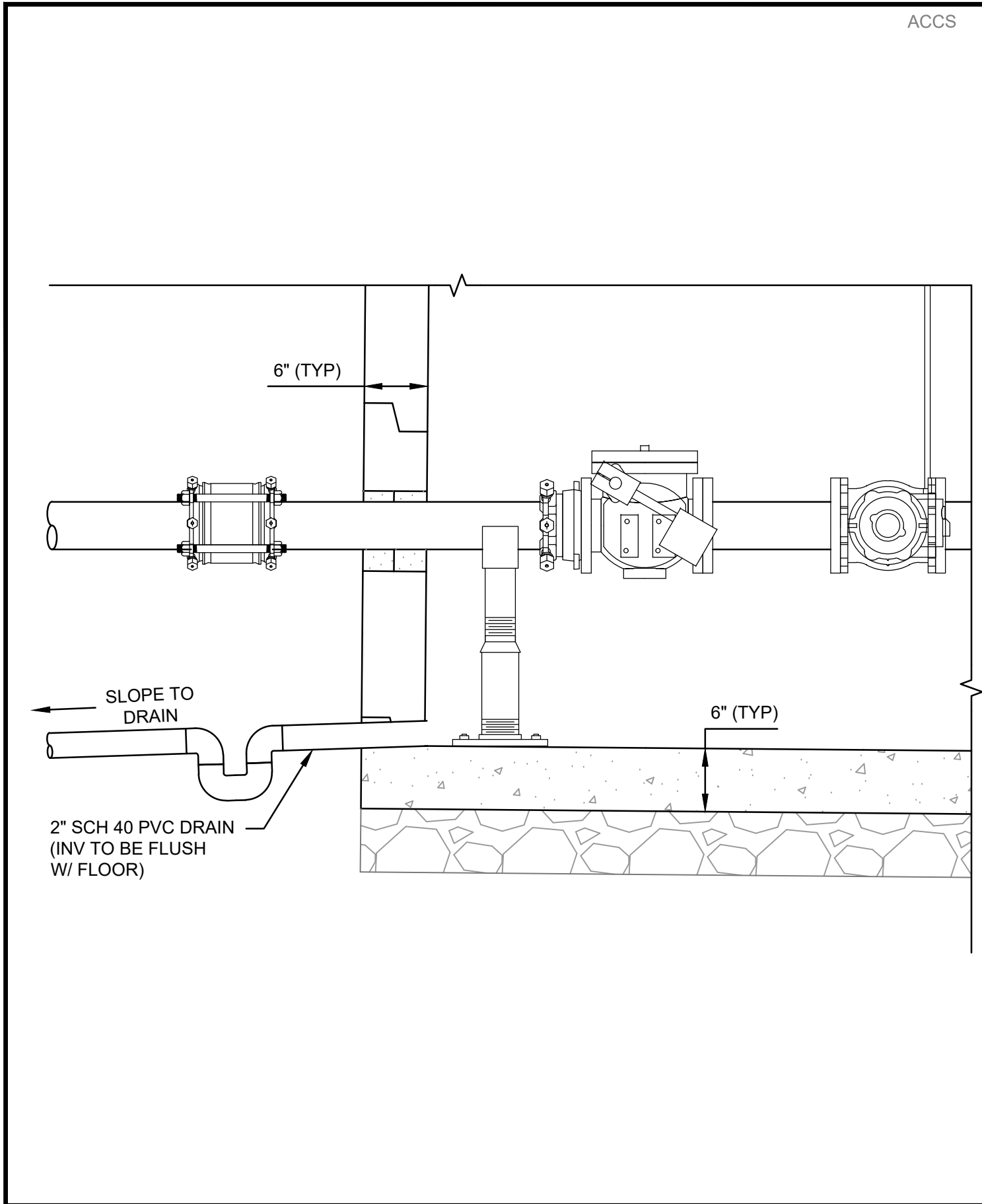
0 1" = 1" ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET **C4**

4 OF 18



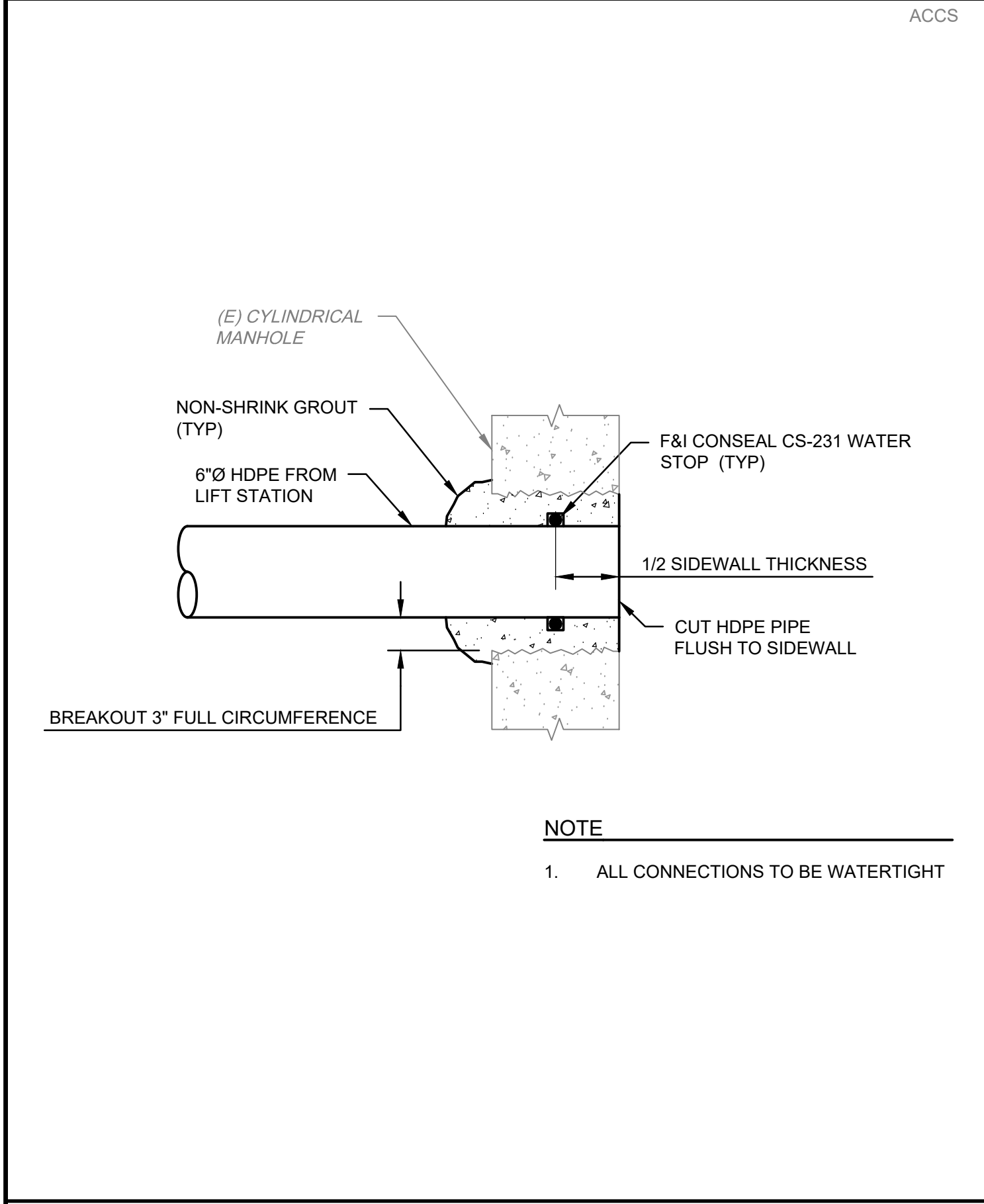




1
C7

VAULT DRAIN

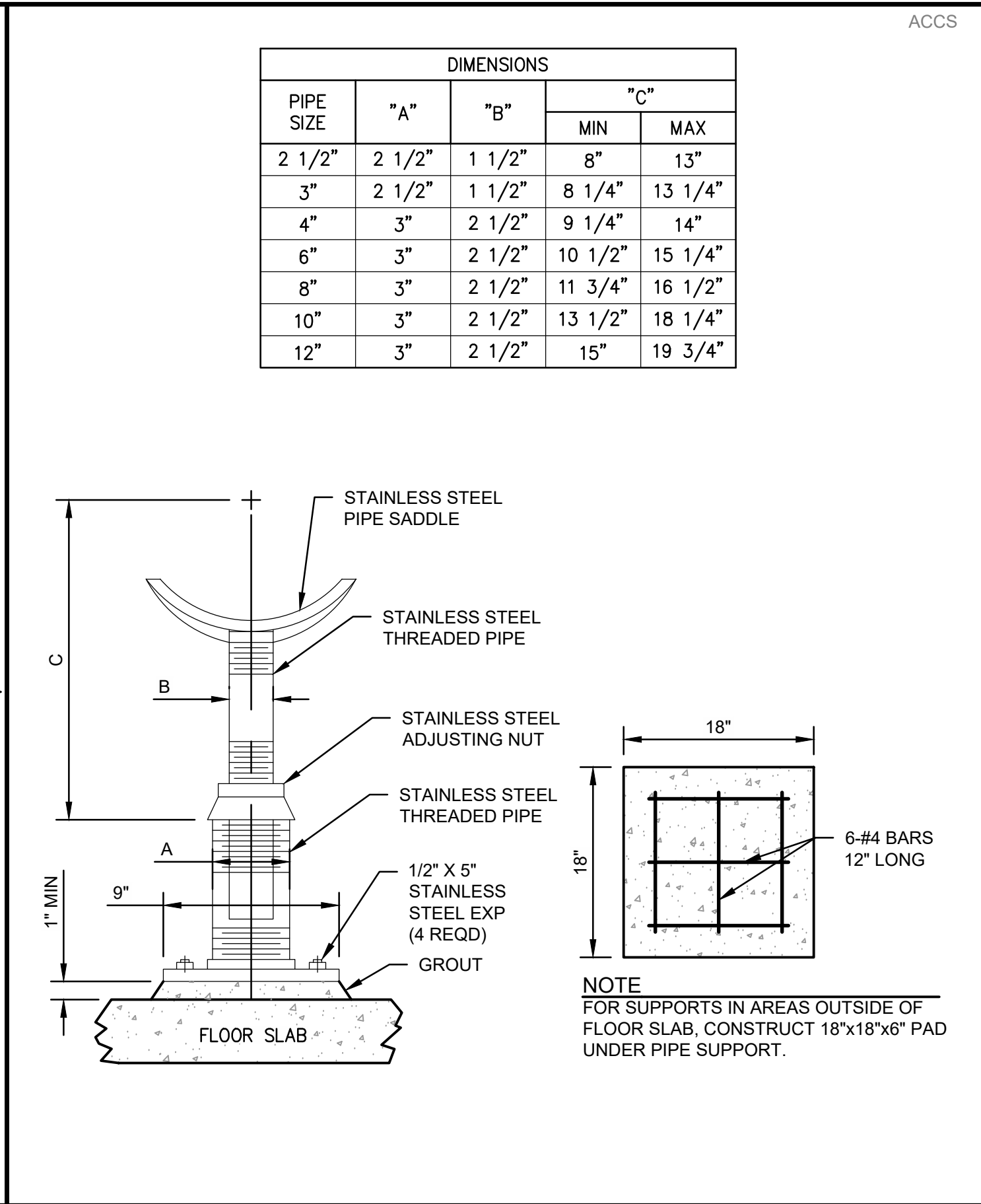
SCALE: NTS



5
C7

FORCE MAIN TO MANHOLE CONNECTION

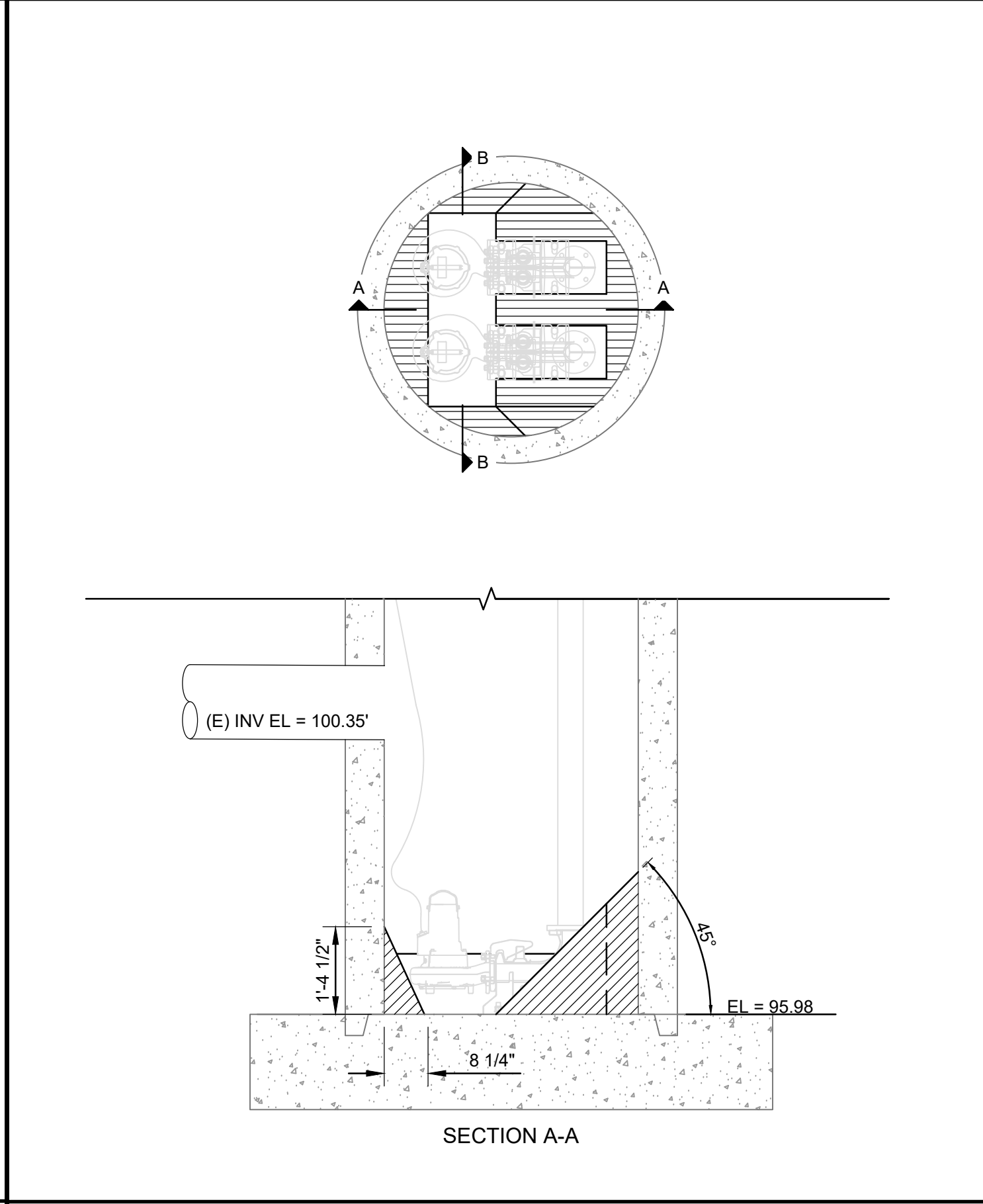
SCALE: NTS



2
C7

PIPE SUPPORT

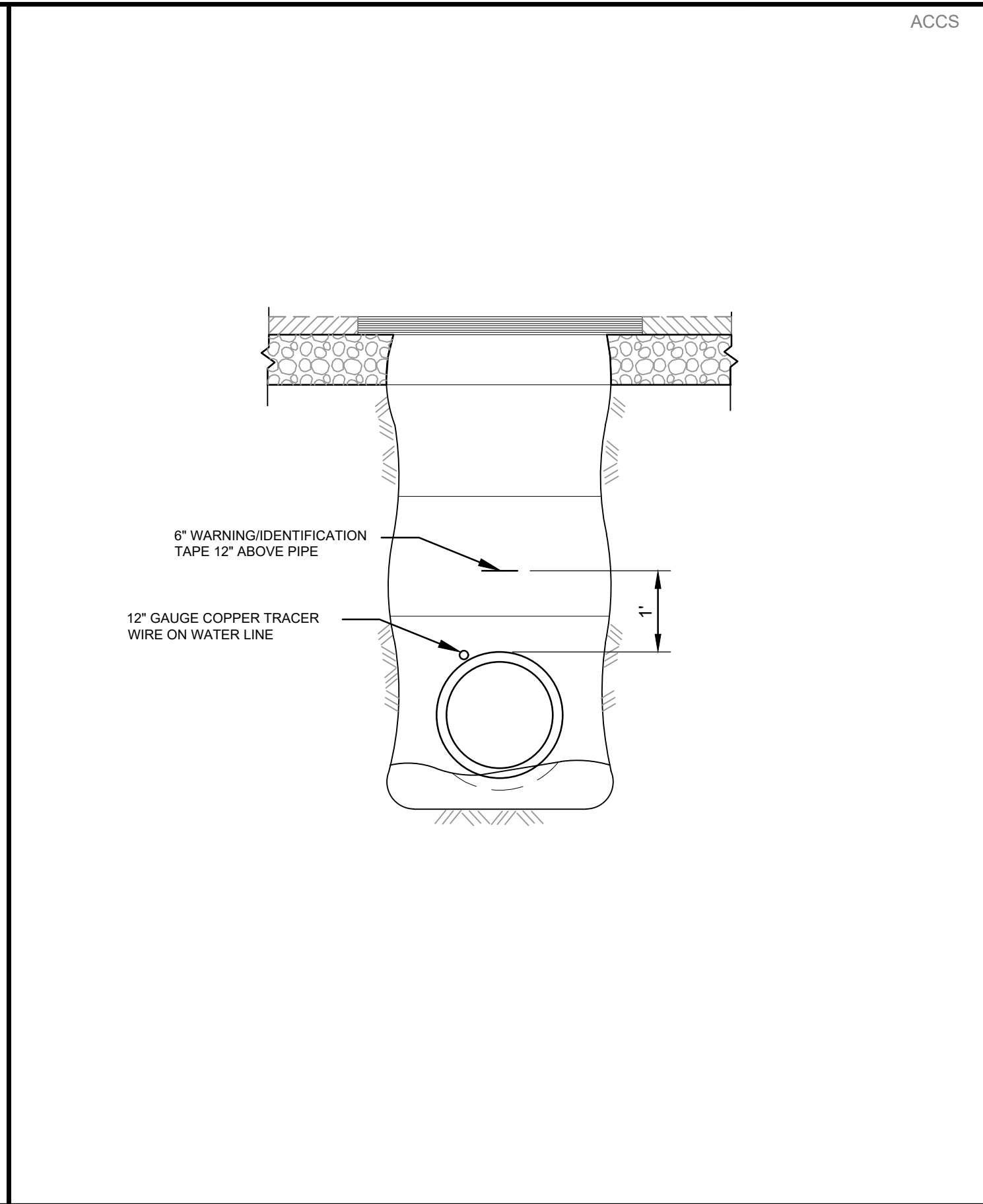
SCALE: NTS



6
C7

LIFT STATION BOTTOM RECONFIGURATION

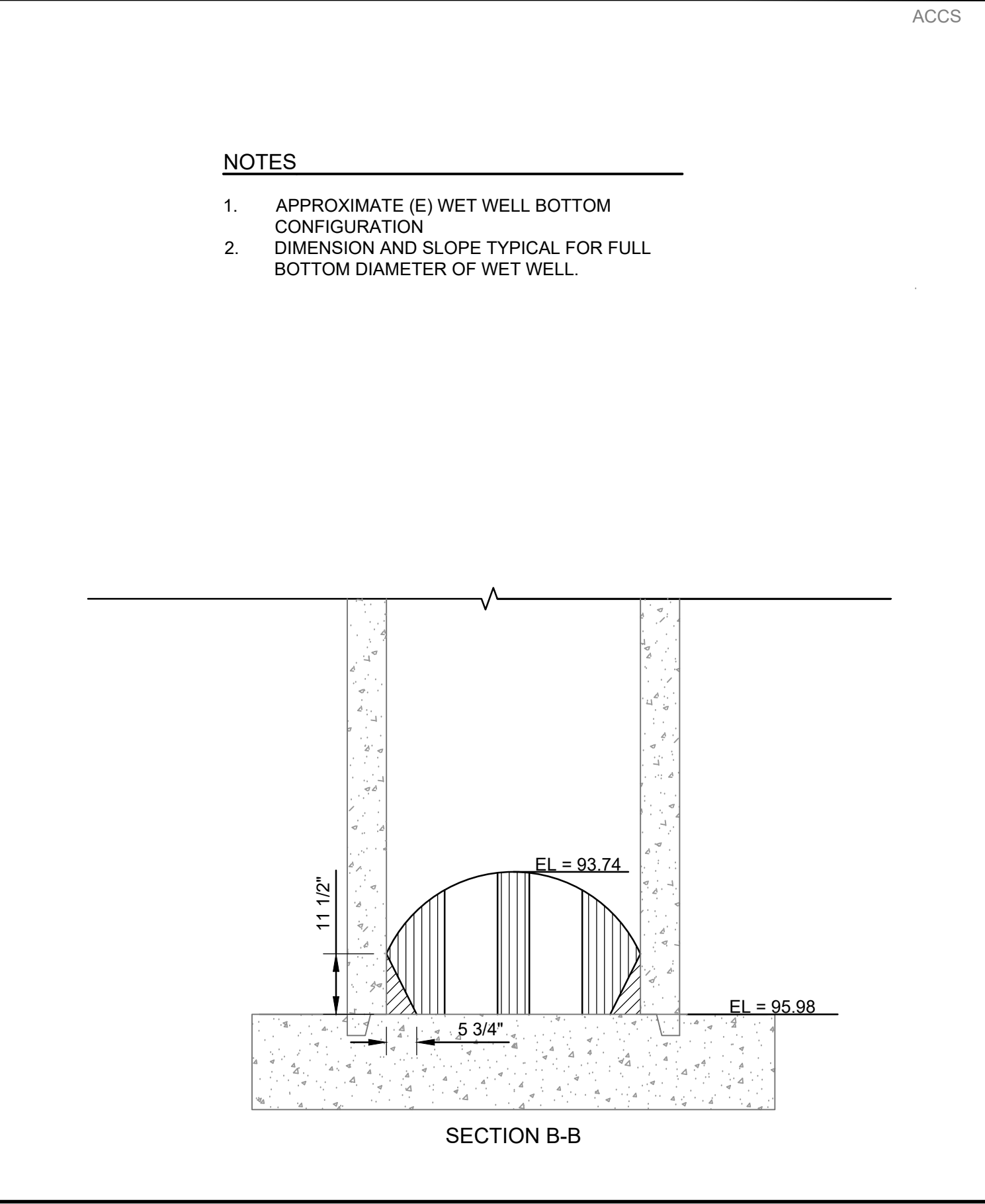
SCALE: NTS



3
C7

WARNING TAPE AND TRACER WIRE

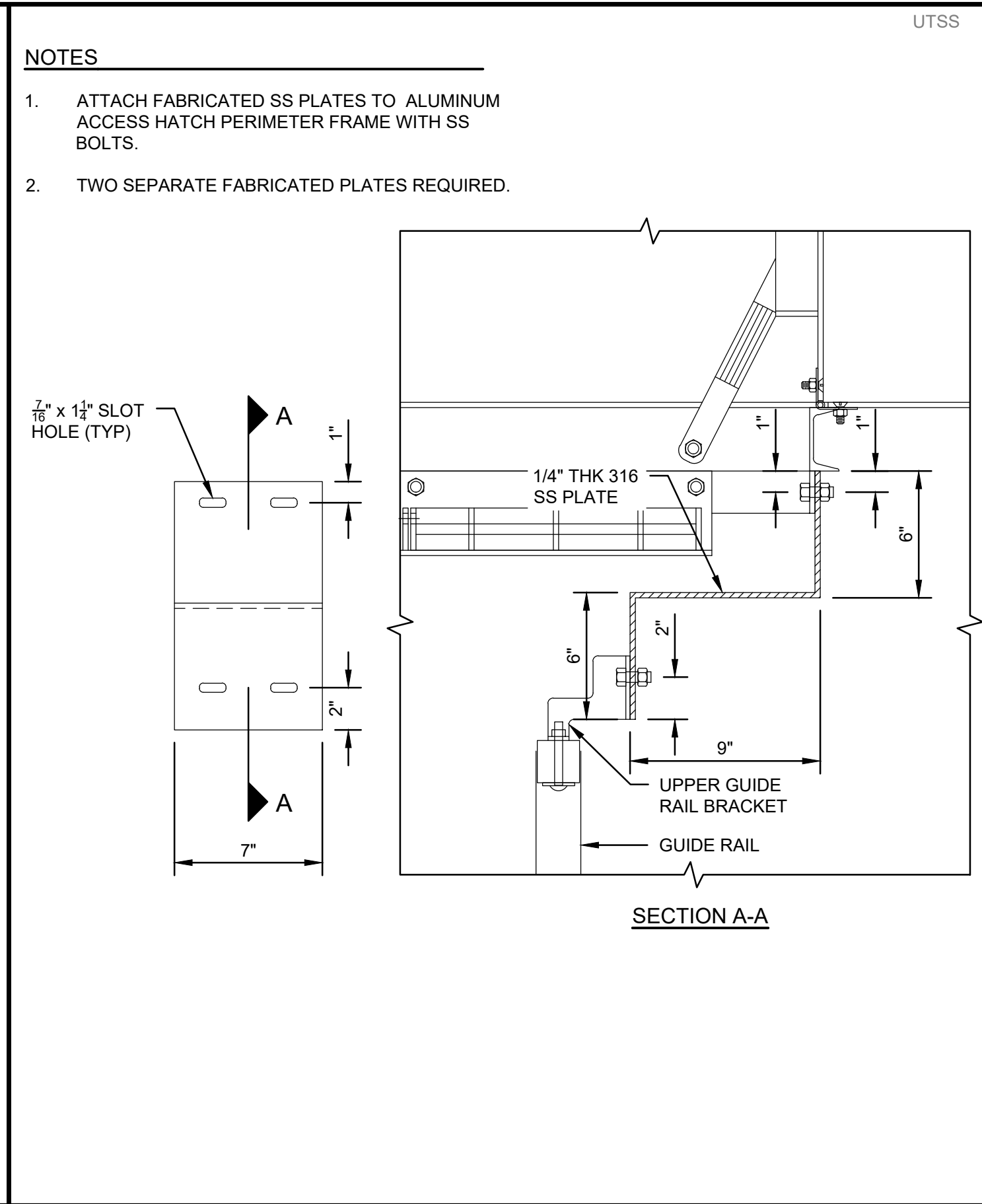
SCALE: NTS



7
C7

LEVEL PROBE AND FLOAT SWITCH CONFIGURATION

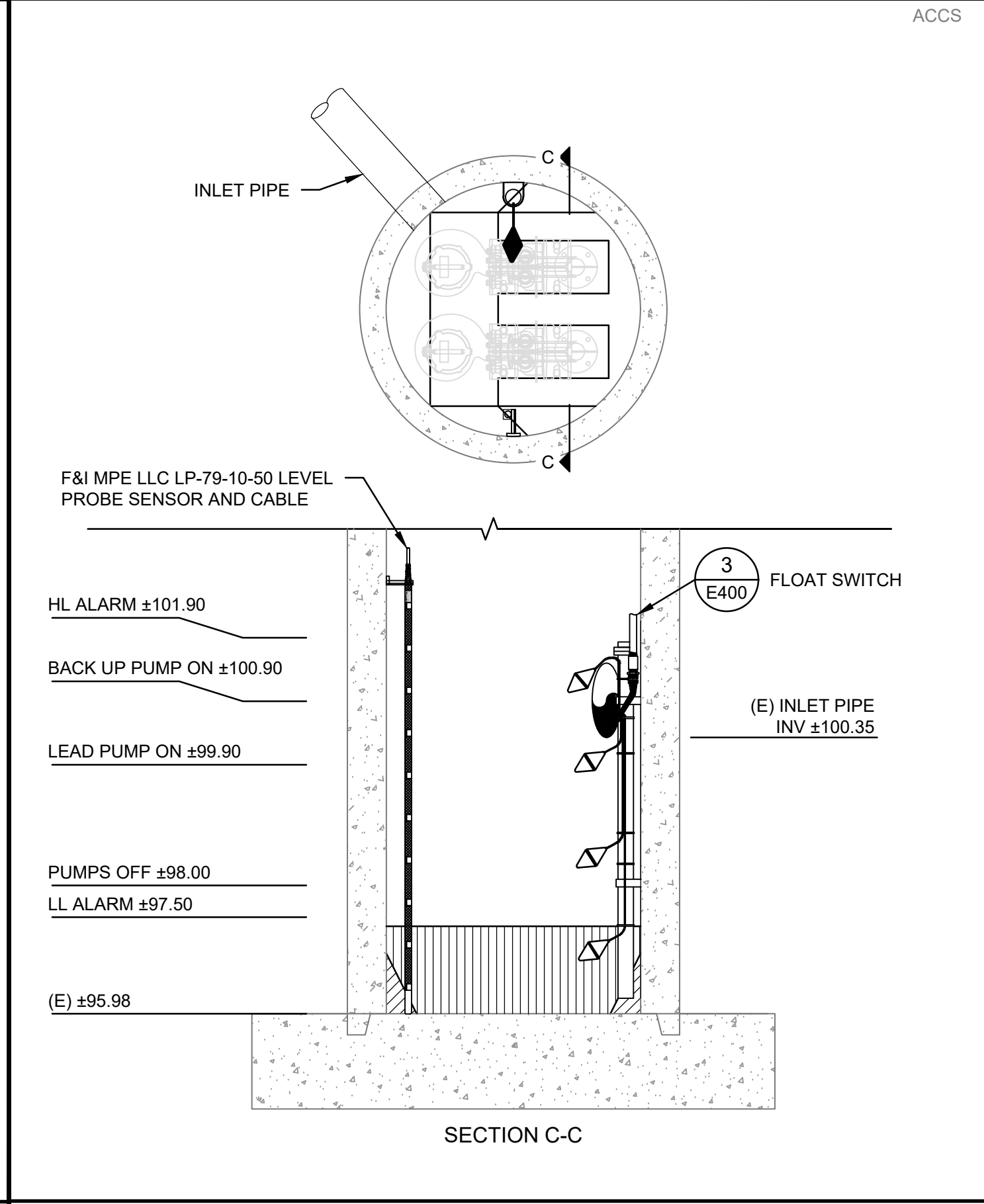
SCALE: NTS



4
C7

FABRICATED SS PLATE

SCALE: NTS



7
C7

LEVEL PROBE AND FLOAT SWITCH CONFIGURATION

SCALE: NTS

COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC. THE USER OF THIS DOCUMENT AGREES TO HOLD PROVOST & PRITCHARD ENGINEERING, INC. HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DOCUMENT. PROVOST & PRITCHARD ENGINEERING, INC. IS A LEGAL FIRM ASSOCIATED WITH DEFENDING AND ENFORCING THESE RIGHTS.

BID SET
05/02/2025

PROFESSIONAL ENGINEER
STEVE SPENCER
No. 54634
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 5/2/2025

ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERED COUNTY
CONSTRUCTION PLANS

DETAILS

DESIGN ENGINEER:
STEVE SPENCER
LICENSE NO:
CE 54634

DRAFTED BY:
LAJ

CHECKED BY:
JMG

DATE: 05/02/2025

JOB NO: 350124010

PROJECT NO: 350124010

PHASE: DES

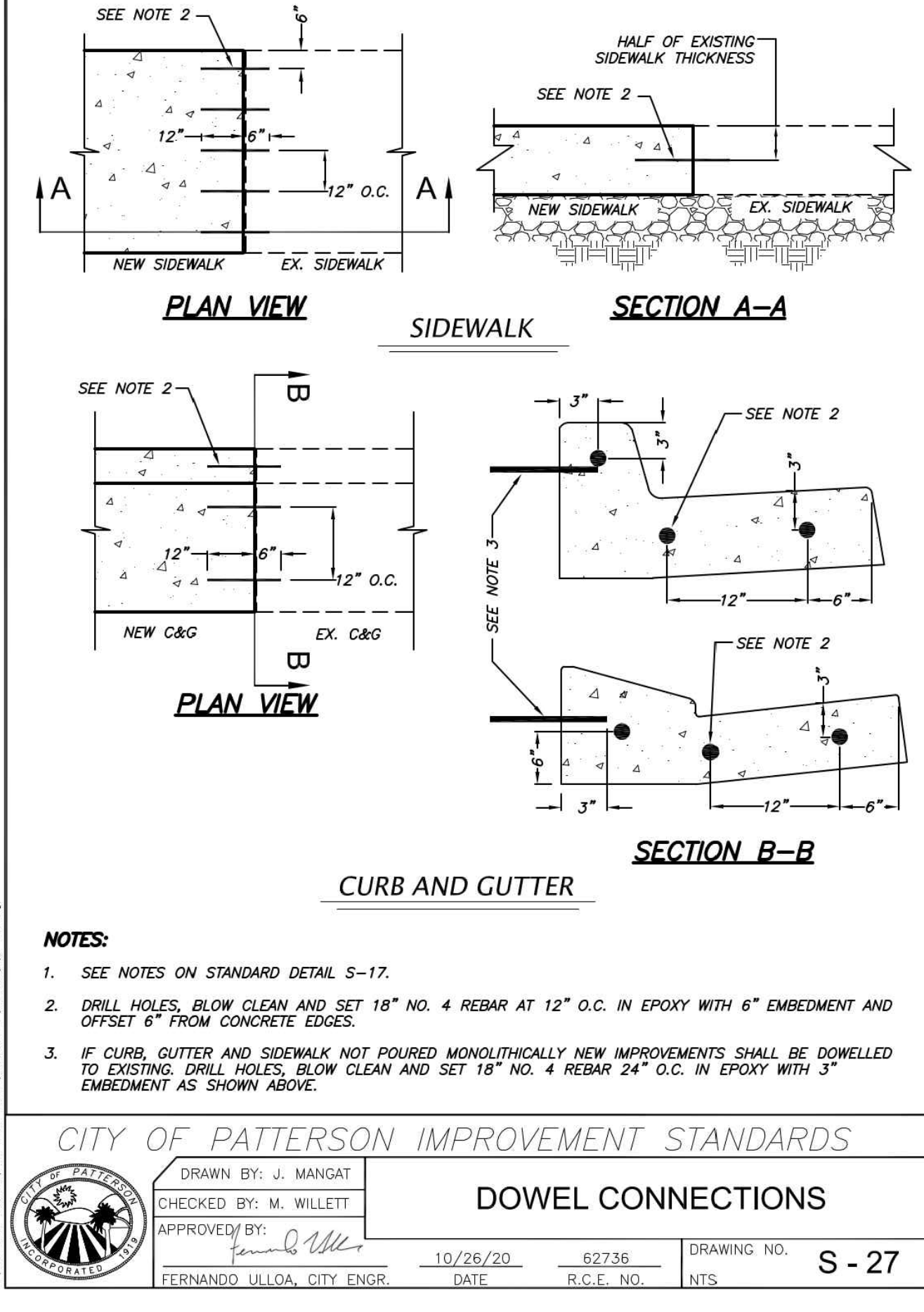
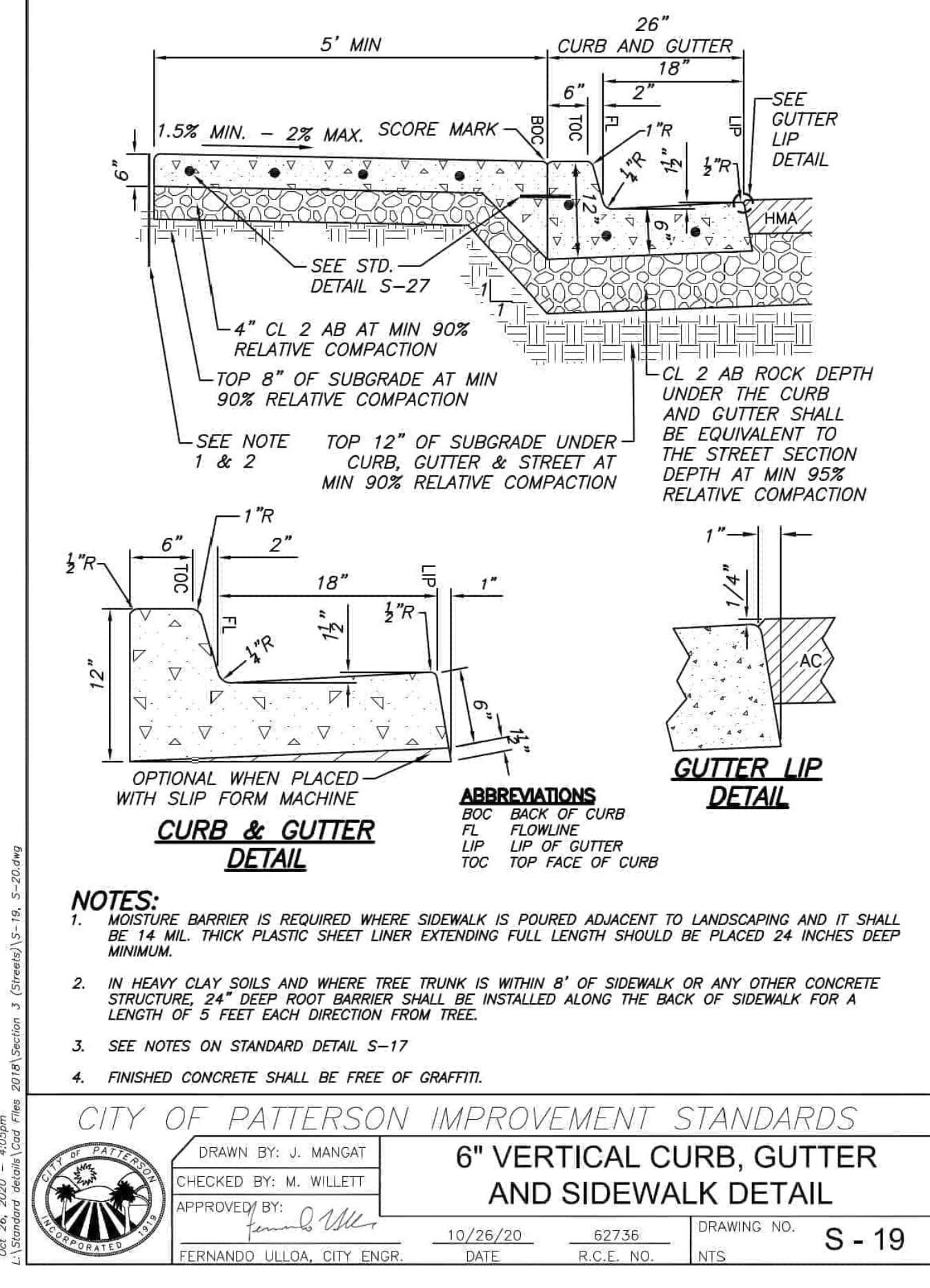
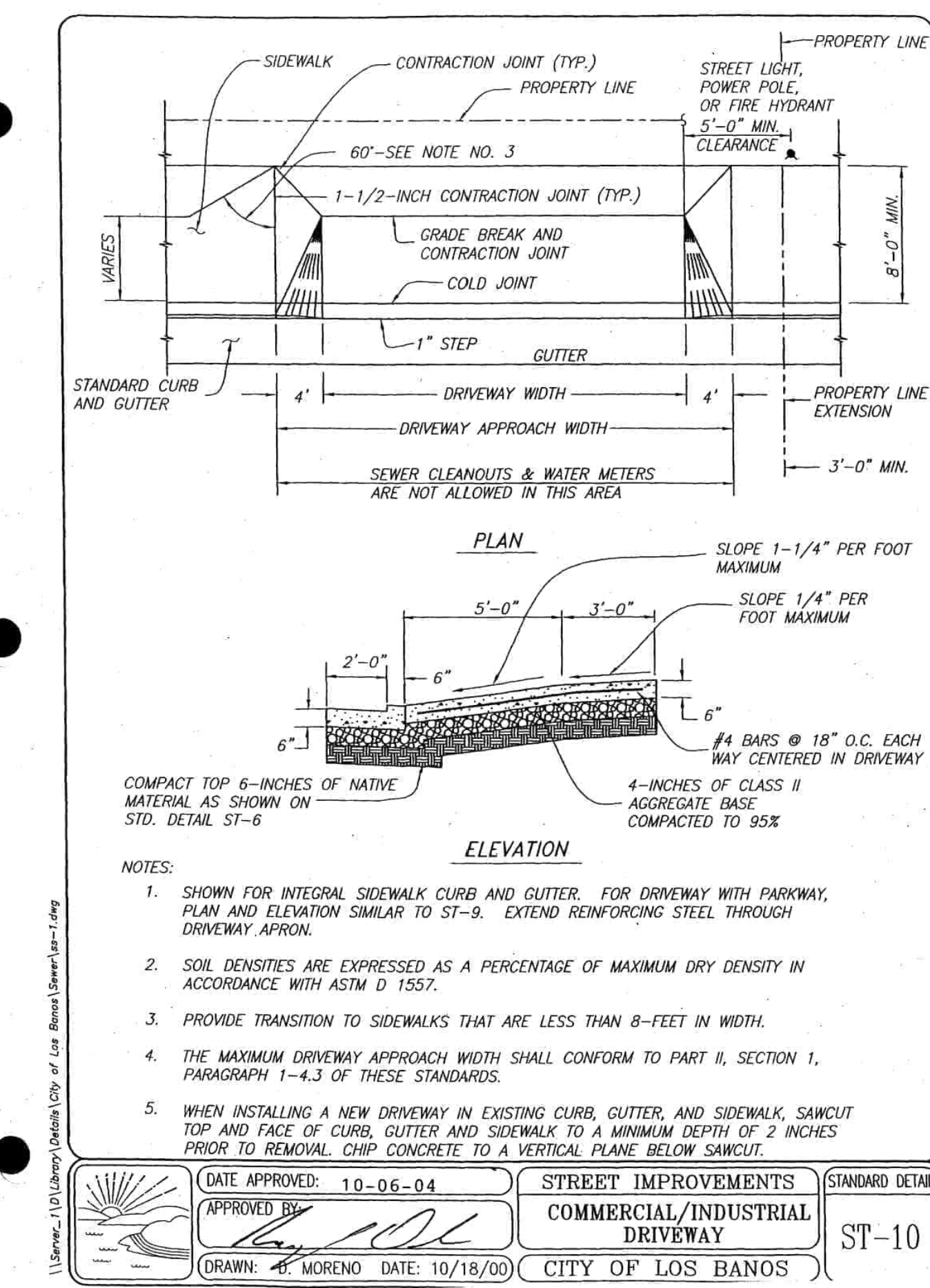
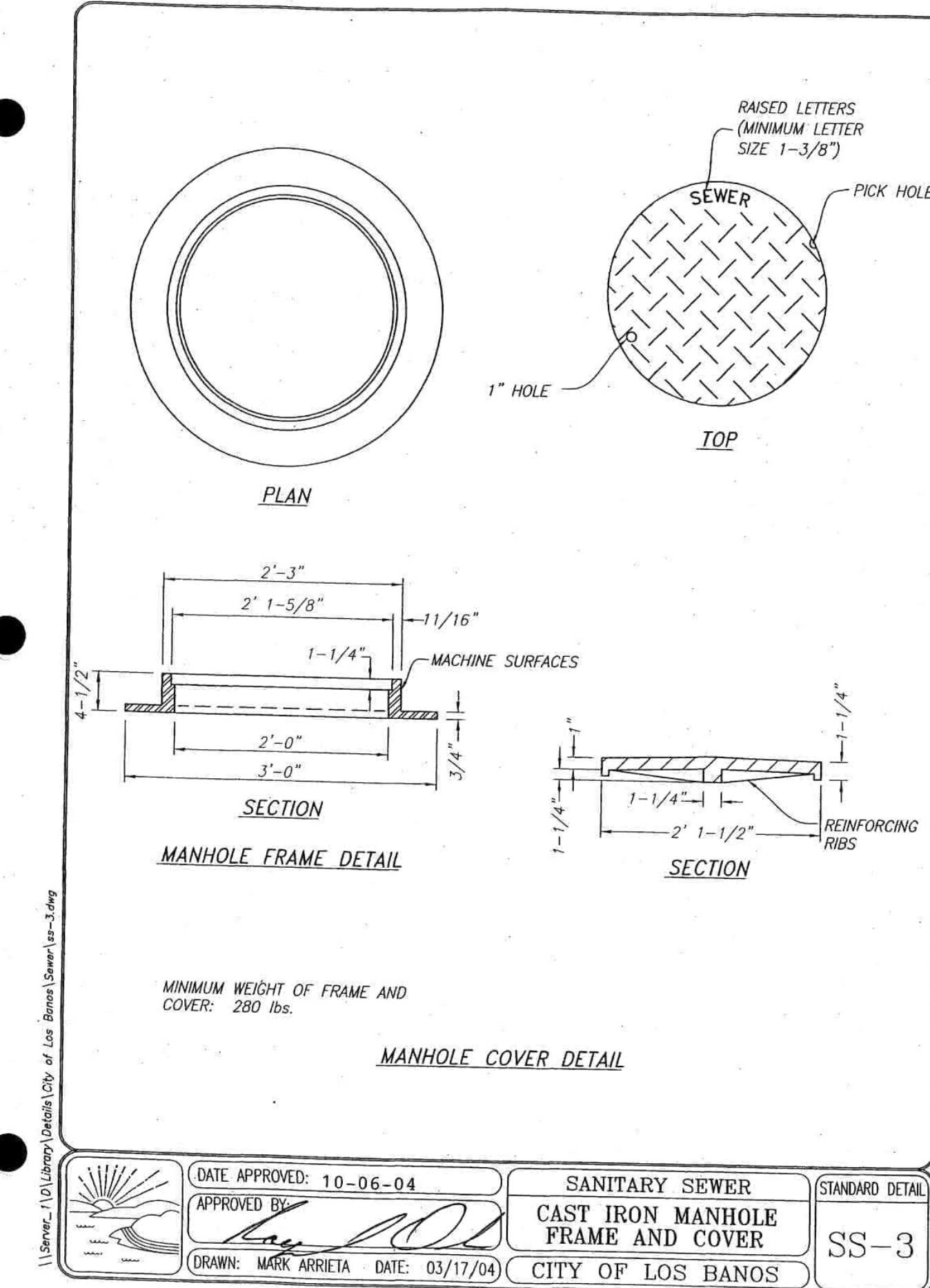
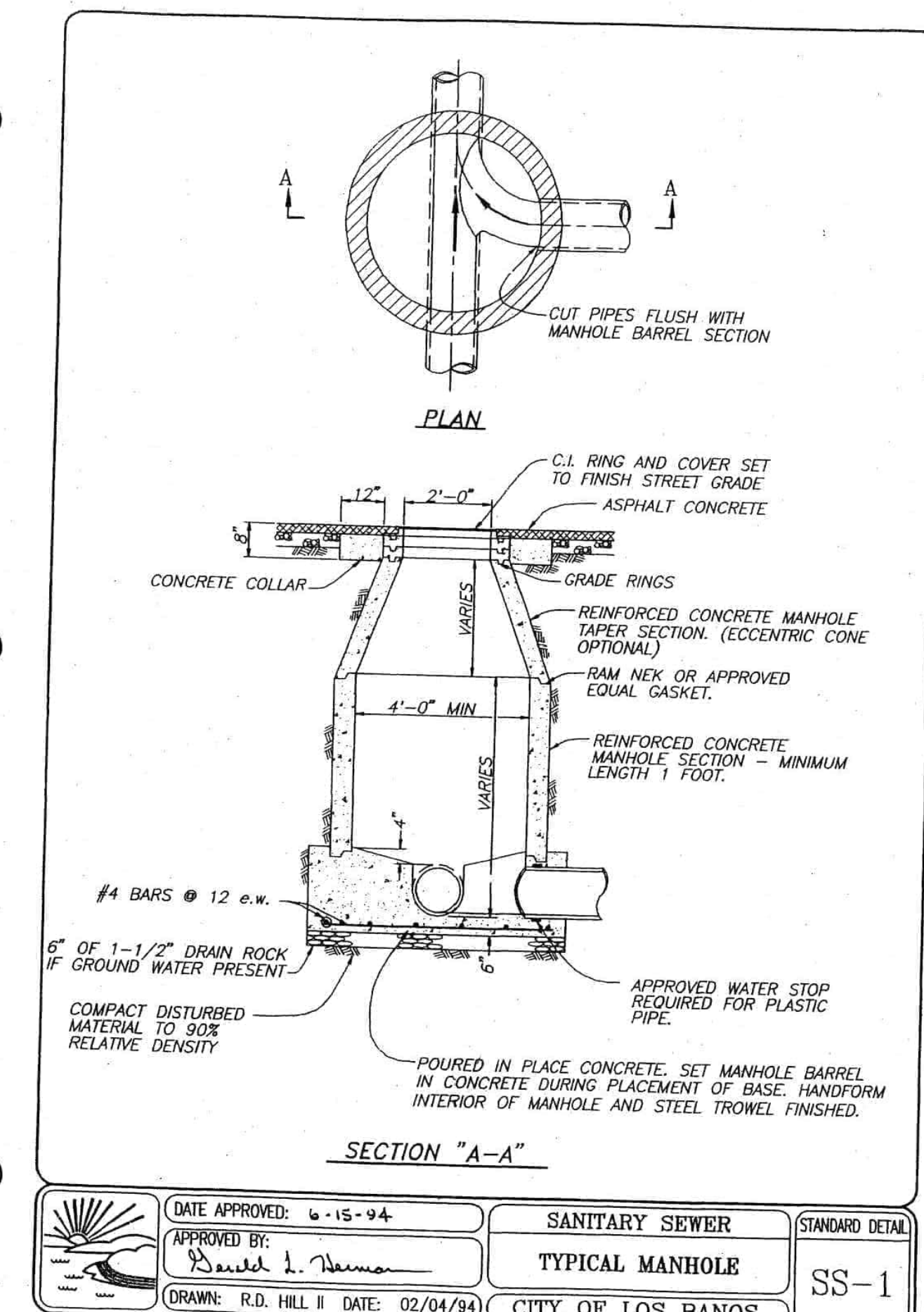
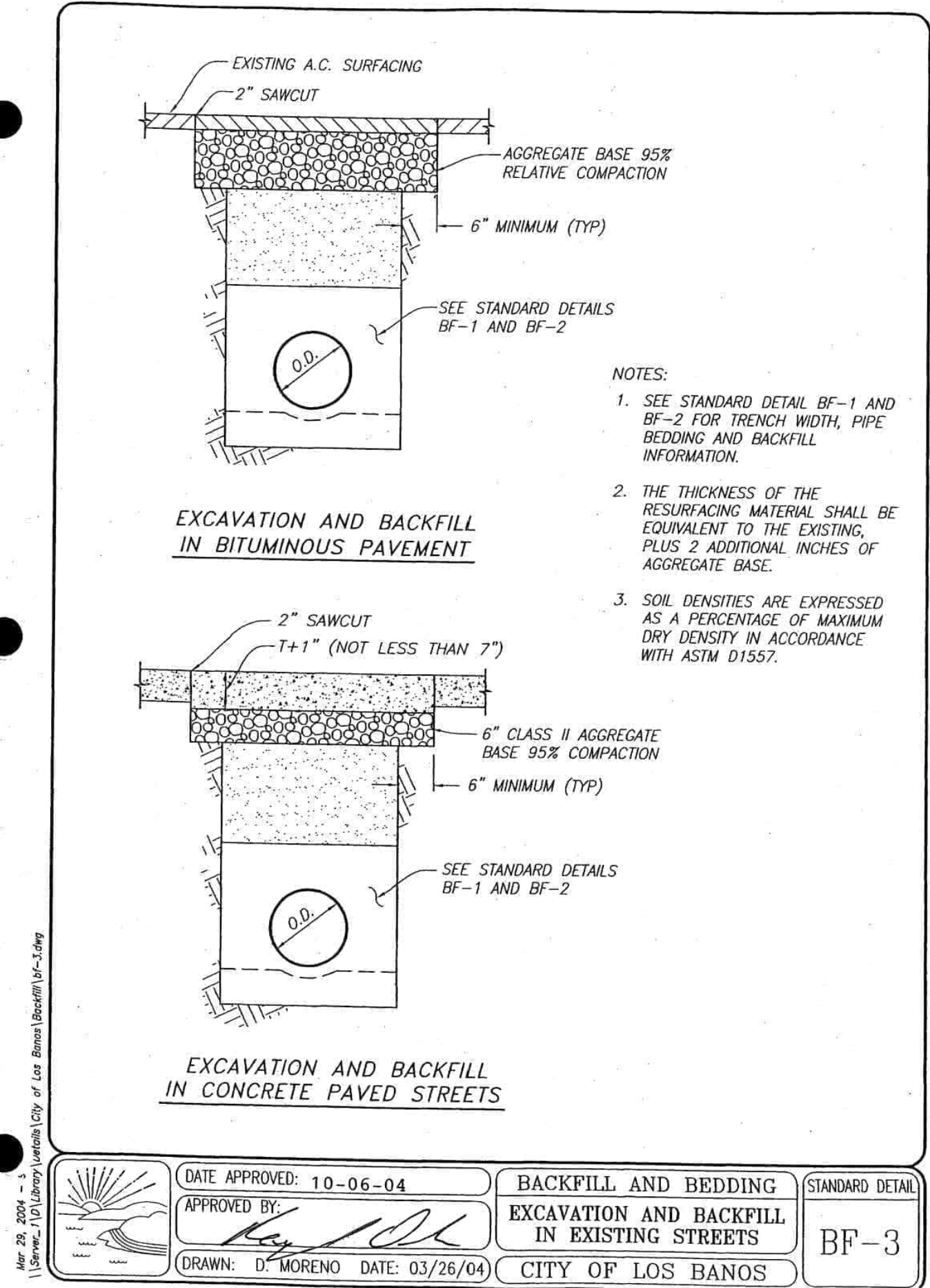
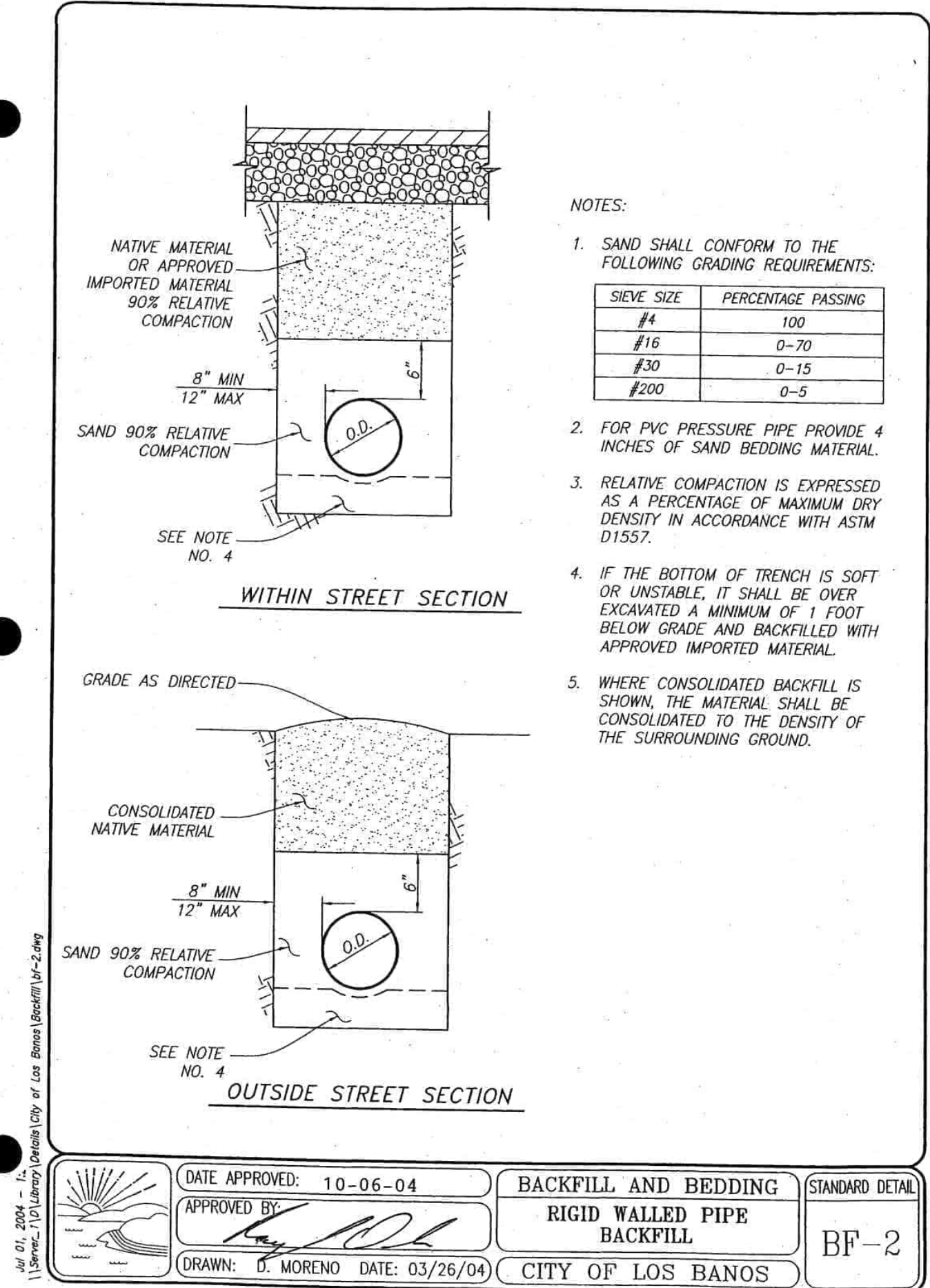
0 1"

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

SHEET
C7

7 OF 18

5/2/2025 1:48 PM G:\Los Banos_City of 350119301\24010-Orchard Terrace SLS\Sheet\CONSTRUCTION PLANS\C7 DETAILS.dwg Dylan Morillas



BID SET
05/02/2025

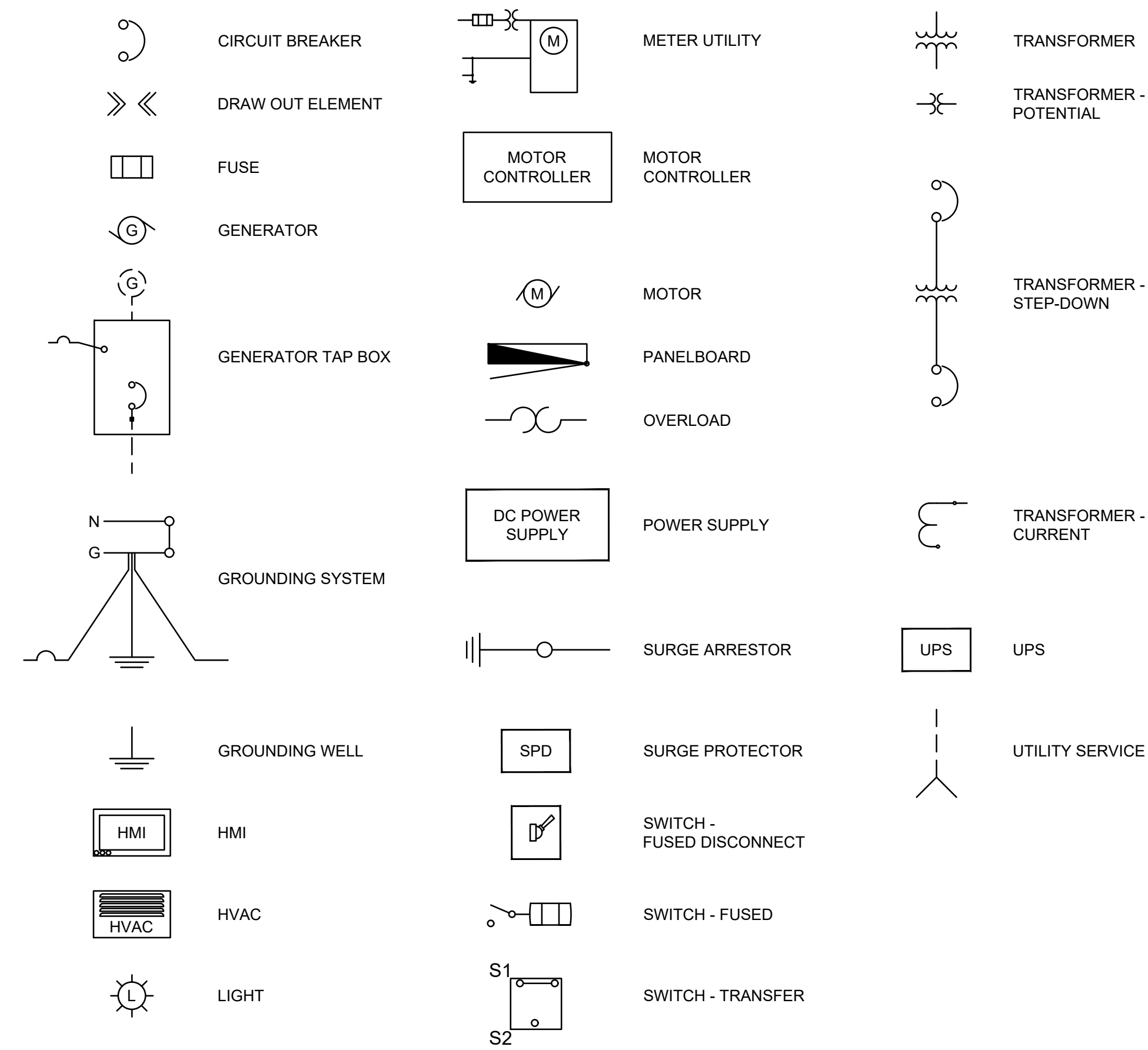
ORCHARD TERRACE SEWER LIFT STATION REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
CONSTRUCTION PLANS

PROVOST & PRITCHARD
249 W. PACHECO BLVD. SUITE B
LOS BANOS, CA 93801
PHONE (209) 824-1885
FAX (209) 824-1875
www.provostandpritchard.com

DESIGN ENGINEER: STEVE SPENCER
LICENSE NO.: CE 54634
DRAFTED BY: LAJ
CHECKED BY: JMG
DATE: 05/02/2025
JOB NO.: 350124010
PROJECT NO.: 350124010
PHASE: DES
ORIGINAL SCALE SHOWN IS ONE INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.
SHEET C8
8 OF 18

DATE SIGNED: 5/2/2025
DATE:

AAP	ALARM ANNUNCIATOR PANEL	FA	FIRE ALARM	M/G	MOTOR GENERATOR	S	SHIELD
ABAN	ABANDON	FACP	FIRE ALARM CONTROL PANEL	MA	MILLIAMPERE	SA	SURGE ARRESTER
ABCB	AIR BLAST CIRCUIT BREAKER	FBO	FURNISHED BY OTHERS	MAN	MANUAL	SC	SHORT CIRCUIT
ABS	ABSOLUTE	FC	FOOT CANDLE / FAIL CLOSED	MATV	MASTER ANTENNA TELEVISION SYSTEM	SDBC	SOFT DRAWN BARE COPPER
ABSW	AIR BREAK SWITCH	FDR	FEEDER	MAX	MAXIMUM	SEC	SECOND
ABT	AIR BLAST TRANSFORMER	FLA	FULL LOAD AMPS	MC	MODULATE-CLOSE	S-F	SLOWER-FASTER
AC	ALTERNATING CURRENT	FLP	FAIL TO LAST POSITION	MCA	MOTOR CIRCUIT AMPS	SFL	SUB FEED LUGS
ACB	AIR CIRCUIT BREAKER	FLUOR	FLOUORESCENT	MCB	MAIN CIRCUIT BREAKER	SIG	SIGNAL
ACK	ACKNOWLEDGE	FLX	FLEXIBLE CONDUIT	MCCB	MOLDED CASE CIRCUIT BREAKER	SLT	SEALTIGHT LIQUIDTIGHT FLEXIBLE CONDUIT
ACK-X	AREA/AUXILIARY CONTROL PANEL NO.X	FM	FREQUENCY MODULATION / FLOOR MOUNTED	MCC-X	MOTOR CONTROL CENTER NO.X	SM	SURFACE MOUNTED
ACTR	ACTUATOR	FO	FAIL OPEN / FIBER OPTIC	MCP	MOTOR CIRCUIT PROTECTOR	SP	SINGLE POLE
ADDL	ADDITIONAL	F-O-S	FAST-OFF-SLOW	MERC	MERCURY VAPOR	SPD	SURGE PROTECTIVE DEVICE
ADDM	ADDITIONAL	F-O-S-A	FAST-OFF-SLOW-AUTO	MGO	MAGNETICALLY OPERATED	SPOT	SINGLE POLE DOUBLE THROW
AF	AMP FRAME	F-O-S-R	FAST-OFF-SLOW-REMOTE	MH	MANHOLE / MOUNTING HEIGHT	SPKR	SPEAKER
AFC	AUTOMATIC FREQUENCY CONTROL	FP-X	FIELD PANEL NO.X	MLO	MAIN LUGS ONLY	SPST	SINGLE POLE SINGLE THROW
AFF	ABOVE FINISHED FLOOR	FRC	FIBERGLASS RIGID CONDUIT	MO	MANUALLY OPERATED	SS	SOLID STATE
AFG	ABOVE FINISHED GRADE	FREQ	FREQUENCY	MOD	MOTOR OPERATED DAMPER	S-S	START-STOP
AHC	AUTO-HOLD-CLOSED	FS	FLOAT SWITCH	MOT	MOTOR	SSC	SUPERVISORY SET POINT CONTROL
AHM	AMPERE HOUR METER	FU	FUSE	MOV	METAL OXIDE VARNISTOR	STB	SHORTING TERMINAL BLOCK
AIC	AMP INTERRUPTING CAPACITY	FUSW	FUSED SWITCH	MPR	MOTOR PROTECTION RELAY	SV	SOLENOID VALVE
AM	AMMETER	FUT	FUTURE	MSP	MOTOR STARTING PANEL	SW	SWITCH
AMB	AMBIENT	FVNR	FULL VOLTAGE NON-REVERSING	MS-X	MOTOR STARTER NO.X	SWBD	SWITCHBOARD
ANN	ANNUNCIATOR	FVR	FULL VOLTAGE REVERSING	MTO	MANUAL THROW OVER	SWGR	SWITCHGEAR
ANT	ANTENNA	FWD	FORWARD	MTR-X	MOTOR NO.X	SYMM	SYMMETRICAL
APU	AUXILIARY POWER UNIT	G	GROUND	MTS	MANUAL TRANSFER SWITCH	SYM	SYMBOL
ARM	ARMORED CABLE	GEN	GENERATOR	MV	MEGAVOLT	SYS	SYSTEM
AS	AMMETER SWITCH	GFCI	GROUND FAULT CIRCUIT INTERRUPTER (RECEPTACLE)	MVA	MEGAVOLT-AMPERES	S1	SOURCE 1
ASU	AIR SUPPLY UNIT	GFCR	GROUND FAULT RELAY	MVS	MEDIUM VOLTAGE SWITCH	S2	SOURCE 2
ASYM	ASYMMETRICAL	GRC	GALVANIZED STEEL RIGID CONDUIT	MW	MEGAWATT		
AT	AMP TRIP	GS	GOVERNOR SWITCH	MWH	MOTOR WINDING HEATER	TACH	TACHOMETER
ATO	AUTOMATIC THROW OVER			M-X	MOTOR CONTROLLER NO.X	TB-X	TERMINAL BLOCK - UNIT X
ATP	AMMETER TEST POINT	H	HOT-LEG	N	NORMAL, NEUTRAL	TC	THERMOCOUPLE / TIME CLOCK / TRAY CABLE
ATS	AUTOMATIC TRANSFER SWITCH	HF	HIGH FREQUENCY	NC	NORMALLY CLOSED	TD	TEMPERATURE DETECTOR RELAY
AUX XFMR	AUTOMATIC TRANSFORMER	Hg	MERCURY	NCTO	NORMALLY CLOSED TIME OPEN	TDR	TIME DELAY RELAY
AUX	AUXILIARY	HID	HIGH INTENSITY DISCHARGE	NEC	NATIONAL ELECTRICAL CODE	TE	TOTALLY ENCLOSED
AWG	AMERICAN WIRE CAGE	HMI	HUMAN MACHINE INTERFACE	NEG	NEGATIVE	TEFC	TOTALLY ENCLOSED FAN COOLED
		HO	HIGH OUTPUT	NEUT	NEUTRAL	TEMP	TEMPORARY
B	BELL	H-O-A	HAND-OFF-AUTO	NFC	NONMETALLIC FLEXIBLE CONDUIT	TENV	TOTALLY ENCLOSED NON-VENTILATED
BAT	BATTERY	H-O-R	HAND-OFF-REMOTE	NIC	NOT IN CONTRACT	TERM	TERMINAL
BCT	BUSHING CURRENT TRANSFORMER	HORIZ	HORIZONTAL	N-J	NORMAL-JOG	TJB	TERMINAL JUNCTION BOX
BDC	BUS DIFFERENTIAL CURRENT TRANSFORMER	HP	HORSEPOWER	N-L	NIGHT LIGHT	TM	THERMAL MAGNETIC
BFG	BELOW FINISHED GRADE	HPF	HIGH POWER FACTOR	NO	NORMALLY OPEN	TOT	TOTAL
BHP	BRAKE HORSEPOWER	HPS	HIGH PRESSURE SODIUM	NOTC	NORMALLY OPEN TIMED CLOSED	TP	TWISTED PAIR
BKR	BREAKER	HR	HOUR	NP	NAMEPLATE	TS	TEMPERATURE SWITCH
BPD	BUSHING POTENTIAL DEVICE	HS	HAND OPERATED SELECTOR SWITCH			TSW	TWO SPEED CONSEQUENT POLE, TWO WINDING
BRF	BELOW RAISED FLOOR	HSTAT	HUMIDISTAT	O	OPEN OR CLOSED	TSW	TWO SPEED SEPARATE WINDING
		HV	HIGH VOLTAGE	O-C	OPEN-CLOSE	TSIW	TWO SPEED CONSEQUENT POLE, ONE WINDING
C	CONDUIT	HVAC	HEATING/VENTILATION/AIR CONDITIONING	O-C-A	OPEN-CLOSE-AUTO	TSTAT	THERMOSTAT
C-A-M	COMPUTER-AUTO MANUAL	I	FREQUENCY (HERTZ)	OCB	OIL CIRCUIT BREAKER	TU OR TURB	TURBIDITY
CB	CIRCUIT BREAKER	IZ	INSTANTANEOUS LOAD	OCB	OIL CIRCUIT BREAKER	UHF	ULTRA HIGH FREQUENCY
CC	CONTROL CABLE	J	INSTANTANEOUS/CONTINUOUS LOAD	OCR	OIL CIRCUIT RECLOSURE	UNG	UNGROUND
CCS	CENTRAL CONTROL SYSTEM	IC	INTERRUPTING CAPACITY	OH	OVERHEAD	UPS	UNINTERRUPTIBLE POWER SUPPLY
CCT	CENTRAL CIRCUIT TRANSFORMER	IGN	IGNITION	OHGW	OVERHEAD GUY WIRE	UVR	UNDER VOLTAGE RELAY
CCTV	CLOSED CIRCUIT TELEVISION	IB	INSTRUMENT JUNCTION BOX	OL	OVERLOAD RELAY		
CW	COUNTER CLOCKWISE	IMC	INTERMEDIATE METAL CONDUIT	O-O	ON-OFF		
CFP	CHEMICAL FEED PUMP	INCAND	INCANDESCENT	O-O-A	ON-OFF-AUTO	V	VOLT
OKT	CIRCUIT	INST	INSTANTANEOUS	O-O-R	ON-OFF-REMOTE	VA	VOLT AMPERE
C-M	COMPUTER MANUAL	INSTR	INSTRUMENT	OPT	OPTIONAL	VAR	VARMETER
CO	CUT OFF SWITCH	INT	INTERLOCK	O-R	OFF-REMOTE	VB	VACUUM BREAKER
COAX	COAXIAL CABLE	INTERCOM	INTERCOMMUNICATION	O-S-C	OPEN-STOP-CLOSE	VCO	VOLTAGE CONTROLLED OSCILLATOR
COEF	COEFFICIENT	ISP	INTERNET SERVICE PROVIDER	P	POLE	VCP	VENDOR CONTROL PANEL
COM	COMMON	IPB	INSTRUMENT PULL BOX	PA	PUBLIC ADDRESS	VEL	VELOCITY
COMM	COMMUNICATION	IW#	IN WALL (#INCHES AFF OR AFG)	PB	PUSHBUTTON/PULL BOX	VFD	VARIABLE FREQUENCY DRIVE
CPT	CONTROL POWER TRANSFORMER	IWP	IN WALL WEATHERPROOF	PCM	PROCESS CONTROL MODULE	VHF	VERY HIGH FREQUENCY
CP-X	CONTROL PANEL DESIGNATION X			PCP-X	PUMP CONTROL PANEL NO.X	VHO	VERY HIGH OUTPUT
CR-X	CONTROL RELAY DESIGNATION X			PCS	PVC COATED GALVANIZED STEEL CONDUIT	VIB	VIBRATION
CS	CONTROL SWITCH	J	JUNCTION BOX	PE	PHOTOCELL	VM	VOLTMETER
CT	CURRENT TRANSFORMER	K	KEY INTERLOCK	PF	POWER FACTOR	VP	VAPORPROOF
CTC	CURRENT TRANSFORMER CABINET	KA	KILOAMP	PFCC	POWER FACTOR CORRECTION CAPACITOR	VR	VOLTAGE REGULATOR
CTRL	CONTROL	KV	KILOVOLT	PH	PHASE	VS	VOLTAGE SWITCH
CV	CONTROL VALVE	KVA	KILOVOLT AMPERE	PLC	PROGRAMMABLE LOGIC NUMBER	VT	VOLTAGE TRANSFORMER
CW	CLOCKWISE / COOL WHITE	KVAR	KILOVOLT (REACTANCE)	PNL	PANEL	VTP	VOLTAGE TEST POINT
		KW	KILOWATT	PPSC	PACKAGED POWER SUPPLY CENTER	W	WATT / WEST
DC	DIRECT CURRENT	KWD	KILOWATT DEMAND	PPX	POWER PANEL NO.X	WHD	WATTHOUR DEMAND METER
DCS	DISTRIBUTED CONTROL SYSTEM	KWH	KILOWATT HOUR	PRI	PRIMARY	WHM	WATTHOUR METER
DCU-X	DISTRIBUTED CONTROL UNIT NO.X			PS	PRESSURE SWITCH	WM	WATTMETER
DDU	DELAY UPON DE-ENERGIZING	L	LONG-TIME	PT	POTENTIAL TRANSFORMER	WP	WEATHER PROOF
DE	DELAY UPON ENERGIZING	L1,L2,L3	LIGHTING PANEL BRANCH CIRCUIT	PVC	POLYVINYL CHLORIDE RIGID PLASTIC CONDUIT	WT	WATER TIGHT
DEEN	DE-ENERGIZE	LA	LIGHTNING ARRESTOR	PWR	POWER		
DEMO	DEMOLITION	LB	POUND			XFMR	TRANSFORMER
DISC	DISCONNECT SWITCH	L-B	LINE-BUS	RAC	RIGID ALUMINUM CONDUIT		
DIV	DIVISION	LBL	LABEL	RECPT	RECEPTACLE	ZS	POSITION SWITCH
DM	DEMAND METER	LC	LIGHTING CONTACTOR	REV	REVERSE		
DPDT	DOUBLE POLE DOUBLE THROW	LCP-X	LOCAL CONTROL PANEL NO.X	RF	RADIO FREQUENCY		
DPST	DOUBLE POLE SINGLE THROW	LDR	LOADING RELAY	RH	RELATIVE HUMIDITY		
DS	DOOR SWITCH	LEL	LOWER EXPLOSIVE LIMIT	RMS	ROOT MEAN SQUARED		
DX	DIRECT EXPANSION	L-G	LINE-GROUND	RM-X	REMOTE MODULE NO.X		
		LL	LEAD-LAG LOAD REACTOR	R-O-A	REMOTE-ON-AUTO		
E/G	EMERGENCY GENERATOR	LLCO	LOW LEVEL CUT-OFF	RS	RAPID START		
EC	ELECTRICAL CONTRACTOR	LOR	LOCAL OFF REMOTE	RTD	RESISTIVE TEMPERATURE DETECTOR		
EM	EMERGENCY	LOS	LOCK-OUT STOP	RUNN	RUNNING		
EMF	ELECTROMOTIVE FORCE	LP	LIGHT POLE	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER		
EMT	ELECTRICAL METALLIC TUBING	LP-X	LIGHTING PANEL NO.X	RVNR	REDUCED VOLTAGE NON-REVERSING		
EN	ENERGIZED	LR	LATCHING RELAY LINE REACTOR	RVSS	REDUCED VOLTAGE SOFT START		
ENAM	ENAMEL	LRA	LOCKED ROTOR AMPS	R-X	RESISTOR OR POTENTIOMETER NO.X		
ENCL	ENCLOSURE	LS	LIMIT SWITCH				
ENG	ENGINE	LTG	LIGHTING				
ENMT	ELECTRICAL NON-METALLIC TUBING	LV	LOW VOLTAGE				
EP	EXPLOSION PROOF	LVL	LOW VOLTAGE LEVEL				
ESD	EMERGENCY STOP DEPRESSED						
ESR	EMERGENCY STOP RELAY						
ETM	ELAPSED TIME METER						



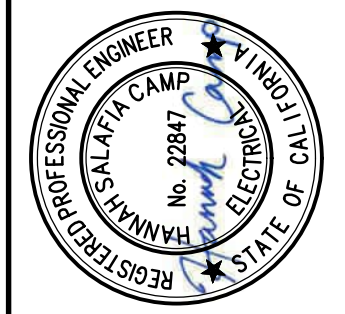
CAT6	CAT6 COPPER ETHERNET CABLE
ENET	DATA COMMUNICATIONS CABLE, ETHERNET
FO	SINGLE MODE FIBER OPTIC CABLE
	COAXIAL CABLE
S	SERIAL CABLE
	COPPER

1. INSTRUMENTS AND EQUIPMENT ARE SHOWN IN THE GENERAL VICINITY, VERIFY LOCATIONS WITH OWNER AND RUN CONDUITS AND CONDUCTORS ACCORDINGLY.
2. CONDUIT SHALL BE CONCEALED, WHEREVER POSSIBLE.
3. PROVIDE SEPARATE GROUNDING CONDUCTOR IN EVERY CONDUIT, UNLESS NOTED OTHERWISE.
4. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.

COPYRIGHT NOTICE BY PROVOIST & PRITCHARD ENGINEERING GROUP, INC. ALL RIGHTS RESERVED

The firm of Provoist & Pritchard Engineering Group, Inc. expressly reserves its common law copyright and other applicable property rights in these plans. These plans are not to be reproduced, changed or copied in any form or manner whatsoever, nor are they to be assigned to a third party without first obtaining the written permission of and consent of Provoist & Pritchard Engineering Group, Inc. The firm of Provoist & Pritchard Engineering Group, Inc. and its employees, agents, representatives, successors and assigns shall hold the firm of Provoist & Pritchard Engineering Group, Inc. harmless, and shall bear the cost of Provoist & Pritchard Engineering Group, Inc.'s legal fees associated with defending and enforcing these rights.

BID SET
05/02/2025



URRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
ELECTRICAL PLANS

LEGEND AND ABBREVIATIONS

**PROVOST &
PRITCHARD**
249 W. PACHECO BLVD., SUITE B
LOS BANOS, CALIFORNIA 93635
PHONE (209) 829-1685
FAX (209) 829-1675
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER
LICENSE NO:
CE 54634

DRAFTED BY: LAJ	CHECKED BY: JMG
--------------------	--------------------

DATE: 05/02/2025

PROJECT NO: 350124010

PHASE: DES

0 1"

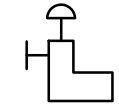
ORIGINAL SCALE SHOWN IS
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED P

SHEET **E000**

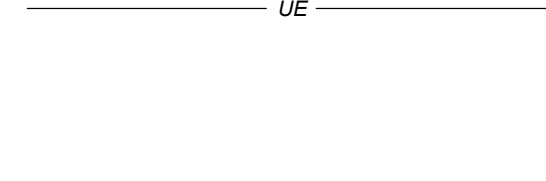
9 OF 18



 PRESSURE VALVE (SELF CONTAINED)



CHEMICAL DOSING PUMP



CAT6 COPPER ETHERNET CABLE
DATA COMMUNICATIONS CABLE, ETHERNET
SINGLE MODE FIBER OPTIC CABLE
COAXIAL CABLE
SERIAL CABLE
COPPER
FUTURE
COMMUNICATIONS (AERIAL)
COMMUNICATIONS (BURIED)
POWER (AERIAL)
POWER (BURIED)

1. INSTRUMENTS AND EQUIPMENT ARE SHOWN IN THE GENERAL VICINITY, VERIFY LOCATIONS WITH OWNER AND RUN CONDUITS AND CONDUCTORS ACCORDINGLY.
2. CONDUIT SHALL BE CONCEALED, WHEREVER POSSIBLE.
3. PROVIDE SEPARATE GROUNDING CONDUCTOR IN EVERY CONDUIT, UNLESS NOTED OTHERWISE.
4. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.

INSTRUMENT IDENTIFICATION LETTERS SCHEDULE											
		ALARM	ELEMENT	TRANSMITTER	INDICATOR	RECORDER	CONTROLLER	SWITCH	VALVE	GAUGE	LIGHT
A	ANALYSIS	AA	AE	AT	AI	AR	AC	AS			AL
B	BURNER, COMBUST.	BA	BE	BT	BI	BR	BC	BS			BL
C	CONDUCTIVITY	CA	CE	CT	CI	CR	CC	CS			CL
D	DENSITY	DA	DE	DT	DI	DR	DC	DS			DL
F	FLOW	FA	FE	FT	FI	FR	FC	FS	FCV	FG	FL
FF	FLOW RATIO				FFI						FFL
G	GAUGE, DIMENSION										
I	CURRENT	IA		IT	II	IR	IC	IS			IL
P	POWER										
K	TIME	KA			KI	KR	KC	KS	KCV		KL
L	LEVEL	LA	LE	LT	LI	LR	LC	LS	LCV	LG	LL
M	MOISTURE, HUMIDITY	MA	ME	MT	MI	MR	MC	MS			ML
N	EMERG, SHUTDOWN										
P	PRESSURE	PA	PE	PT	PI	PR	PC	PS	PCV		PL
PD	PRESSURE DIFFERENTIAL	PDA			PDI	PDR	PDC	PDS	PDCV		PDL
Q	QUANTITY	QA	QE	QT	QI	QR		QS			
R	RADITATION										
S	SPEED	SA	SE	ST	SI	SR	SC	SS			
T	TEMPERATURE	TA	TE	TT	TI	TR	TC	TS	TCV		TL
TD	TEMPERATURE DIFFERENTIAL	TDA		TDI	TDI	TDR	TDC	TDS	TDCV		TDL
U	MULTI-VARIABLE				UI	UR	UC	US			UL
V	VISCOSITY	VA	VE	VT	VI	VR	VC	VS			VL
W	WEIGHT	WA	WE	WT	WI	WR		WS			WL
U	UNCLASSIFIED	XA	XE	XT	XI	XR	XC	XS	XCV	XG	XL
XV	VIBRATION		XVE	XVT	XVI	XVR		XVS			XVL
Y	STATUS				YI						YL
Z	POSITION		ZE	ZT	ZI			ZS			ZL

BID SET
05/02/2025



DATE SIGNED: 5/2/2025

ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
ELECTRICAL PLANS

**PROVOST &
PRITCHARD**
249 W. PACHECO BLVD, SUITE B
LOS BANOS, CALIFORNIA 93635
PHONE (209) 829-1685
FAX (209) 829-1675
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER

LICENSE NO:
CE 54634

DRAFTED BY: LAJ	CHECKED BY: JMG
--------------------	--------------------

DATE: 05/02/2025

JOB NO: 350124010
PROJECT NO: 350124010

PHASE: DES

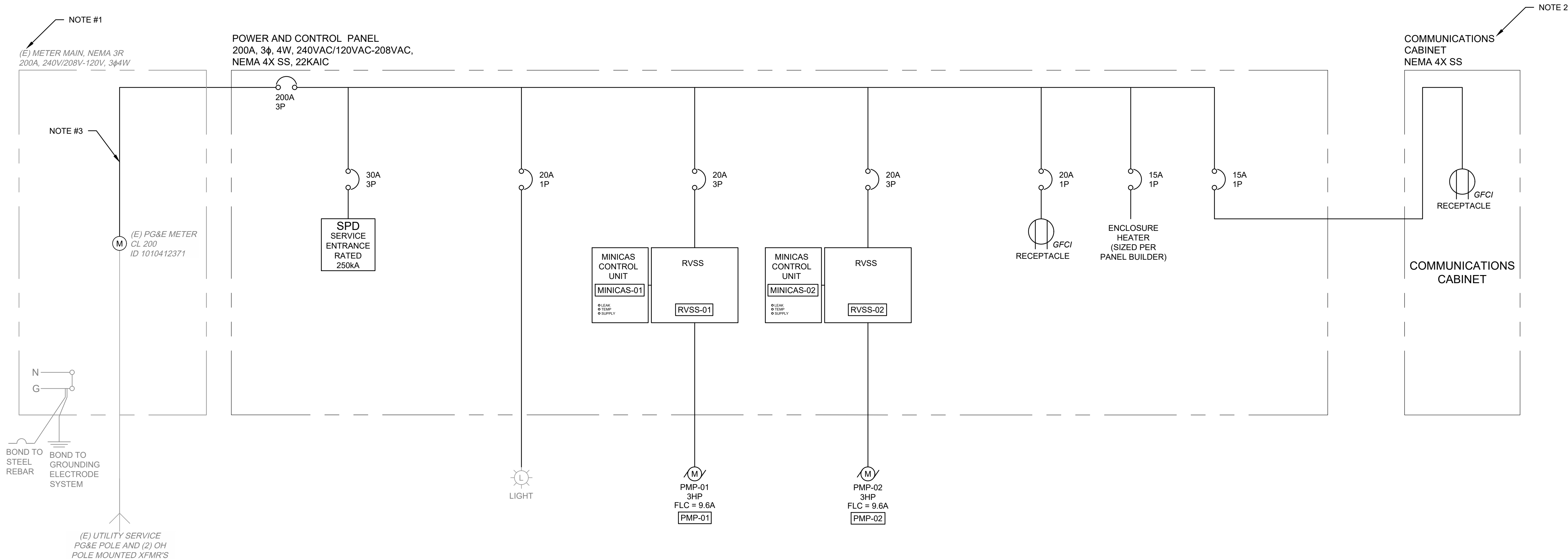
A horizontal number line with a vertical tick mark at the left end labeled '0' and a vertical tick mark at the right end labeled '1'. There are three additional vertical tick marks between 0 and 1, dividing the segment into four equal parts.

ORIGINAL SCALE SHOWN IN
INCH. ADJUST SCALE FOR

REDUCED OR ENLARGED P
SHEET—

SHEET E001

10 OF 19



NOTES

- EXISTING PG&E METER AND MAIN SHALL BE PROTECTED IN PLACE. TERMINATE CONDUCTORS ON EXISTING METER MAIN.
- PROVIDE A 24" X 24" X 8" STAINLESS STEEL, HINGED, NEMA 4X CABINET FOR FUTURE USE, TO HOUSE COMMUNICATION ELEMENTS.
- CONTRACTOR SHALL COORDINATE DISCONNECT/RECONNECT WITH PG&E, TO ALLOW FOR PROVISION OF MAIN BREAKER LINE SIDE CONDUCTORS.

SITE LOAD CALCULATIONS						
ELECTRIC LOADS	1Ø			3Ø		
	LOAD			LOAD		
1 Phase Motors	LOAD	0	KVA	LOAD	-	KVA
3 Phase Motors	LOAD	-	KVA	LOAD	8	KVA
Ag Pump 3 Phase	LOAD	-	KVA	LOAD	0	KVA
Air Conditioning/Heat Pumps	LOAD	0	KVA	LOAD	0	KVA
Arc Welders (Largest unit)	LOAD	0	KVA	LOAD	0	KVA
Arc Welders (remaining units)	LOAD	0	KVA	LOAD	0	KVA
Battery Energy Storage System	LOAD	0	KVA	LOAD	0	KVA
Commercial Cooking	LOAD	0	KVA	LOAD	0	KVA
Data Center/Server Farm	LOAD	0	KVA	LOAD	0	KVA
Elevators	LOAD	0	KVA	LOAD	0	KVA
Level 2 EV Charger	LOAD	0	KVA	LOAD	0	KVA
Level 3 EV Chargers	LOAD	-	KVA	LOAD	0	KVA
Lighting	LOAD	1	KVA	LOAD	0	KVA
Other	LOAD	2	KVA	LOAD	0	KVA
Receptacles	LOAD	1	KVA	LOAD	0	KVA
Receptacles with Office Equipment	LOAD	0	KVA	LOAD	0	KVA
Refrigeration	LOAD	0	KVA	LOAD	0	KVA
Resistance Welders	LOAD	0	KVA	LOAD	0	KVA
Water Heaters	LOAD	0	KVA	LOAD	0	KVA
TOTAL ELECTRIC LOADS	1Ø	4	KVA	3Ø	8	KVA

COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC. THE THIRD PARTY SHALL HOLD THE FIRM OF PROVOST & PRITCHARD ENGINEERING, INC. HARMLESS FROM ALL LIABILITY, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, IN CONNECTION WITH THE ENFORCEMENT OF THESE TERMS AND CONDITIONS.

BID SET
05/02/2025

PROFESSIONAL ENGINEER
RES. 1000
ALABAMA STATE ELECTRICAL BOARD
No. 29847
DATE SIGNED: 5/2/2025

ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERED COUNTY
ELECTRICAL PLANS
SINGLE LINE DIAGRAM AND LOAD
SCHEDULE

PROVOST & PRITCHARD
249 W. PACHECO BLVD., SUITE B
LOS BANOS, CA 93605
PHONE: (209) 824-1855
FAX: (209) 824-1855
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER
LICENSE NO:
CE 54634

DRAFTED BY:
LAJ

CHECKED BY:
JMG

DATE: 05/02/2025

JOB NO: 350124010

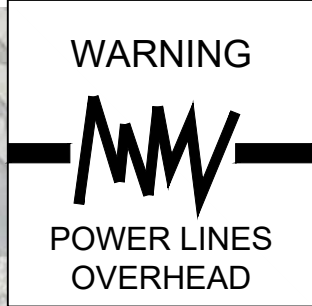
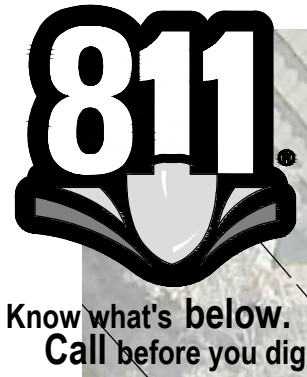
PROJECT NO: 350124010

PHASE: DES

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

SHEET
E100

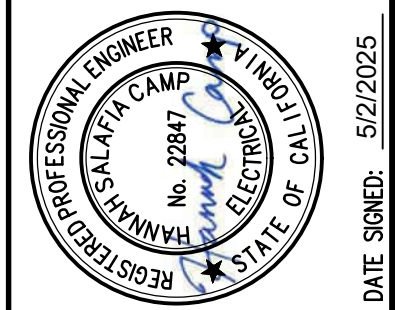
11 OF 18



- NOTES
- CONTRACTOR TO INSTALL PUMPS FURNISHED BY THE CITY OF LOS BANOS

COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC. THE CITY OF LOS BANOS HAS BEEN ADVISED THAT THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC.

BID SET
05/02/2025



ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
ELECTRICAL PLANS

PROVOST & PRITCHARD
249 W. PACIFIC BLVD. SUITE B
LOS BANOS, CA 93801
PHONE (209) 825-1855
FAX (209) 825-1875
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER

LICENSE NO:
CE 54634

DRAFTED BY: LAJ CHECKED BY: JMG

DATE: 05/02/2025

JOB NO: 350124010

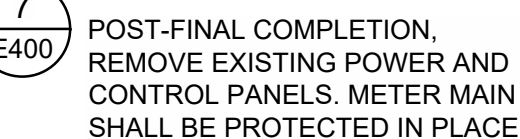
PROJECT NO: 350124010

PHASE: DES

0 2.5 5 10
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET **E200**

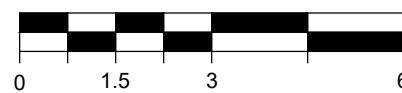
12 OF 18



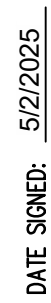
(E) PG&E METER 1010412371 (PROTECT IN PLACE) FED FROM PG&E POLE AND (2) POLE MOUNTED XFMR'S (SEE NOTE 2). RETERMINATE TO EXISTING GROUNDING ELECTRODE CONDUCTORS, OR PROVIDE NEW GROUNDING ELECTRODE SYSTEM PER CEC REQUIREMENTS SEE DETAIL 5 ON SHEET E400

– (E) POLE MOUNTED SITE LIGHT
(PROTECT IN PLACE) (NOTE 3)

1. CONTRACTOR TO INSTALL PUMPS FURNISHED BY THE CITY OF LOS BANOS.
2. EXISTING PG&E METER AND MAIN TO BE PROTECTED IN PLACE. TERMINATE NEW CONDUCTORS IN EXISTING PG&E METER MAIN.
3. TERMINATE CONDUCTORS IN EXISTING POLE MOUNTED SITE LIGHT. CONTRACTOR SHALL VERIFY INTERCONNECTION DETAILS PRIOR TO MOBILIZATION AND SHALL DIRECT ANY INTERCONNECTION QUESTIONS TO OWNER.
4. PROVIDE SUPPORT FOR CABLES ROUTED IN WET WELL, TO ENSURE THEY ARE SUPPORTED AND NOT AT RISK OF DAMAGE.
5. P-005 IS LOCATED INSIDE OF THE POWER AND CONTROL PANEL, TO PROVIDE POWER TO RECEPTACLE.



BID SET
05/02/2025



ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
ELECTRICAL PLANS

SITE PLAN

**PROVOST &
PRITCHARD**
249 W. PACHECO BLVD, SUITE B
LOS BANOS, CALIFORNIA 93835
PHONE (209) 829-1685
FAX (209) 829-1675
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER

LICENSE NO:
CE 5463

DRAFTED BY: LAJ	CHECKED BY: IMG
--------------------	--------------------

DATE: 05/02/2025

JOB NO: 350124010

PROJECT NO: 350124010

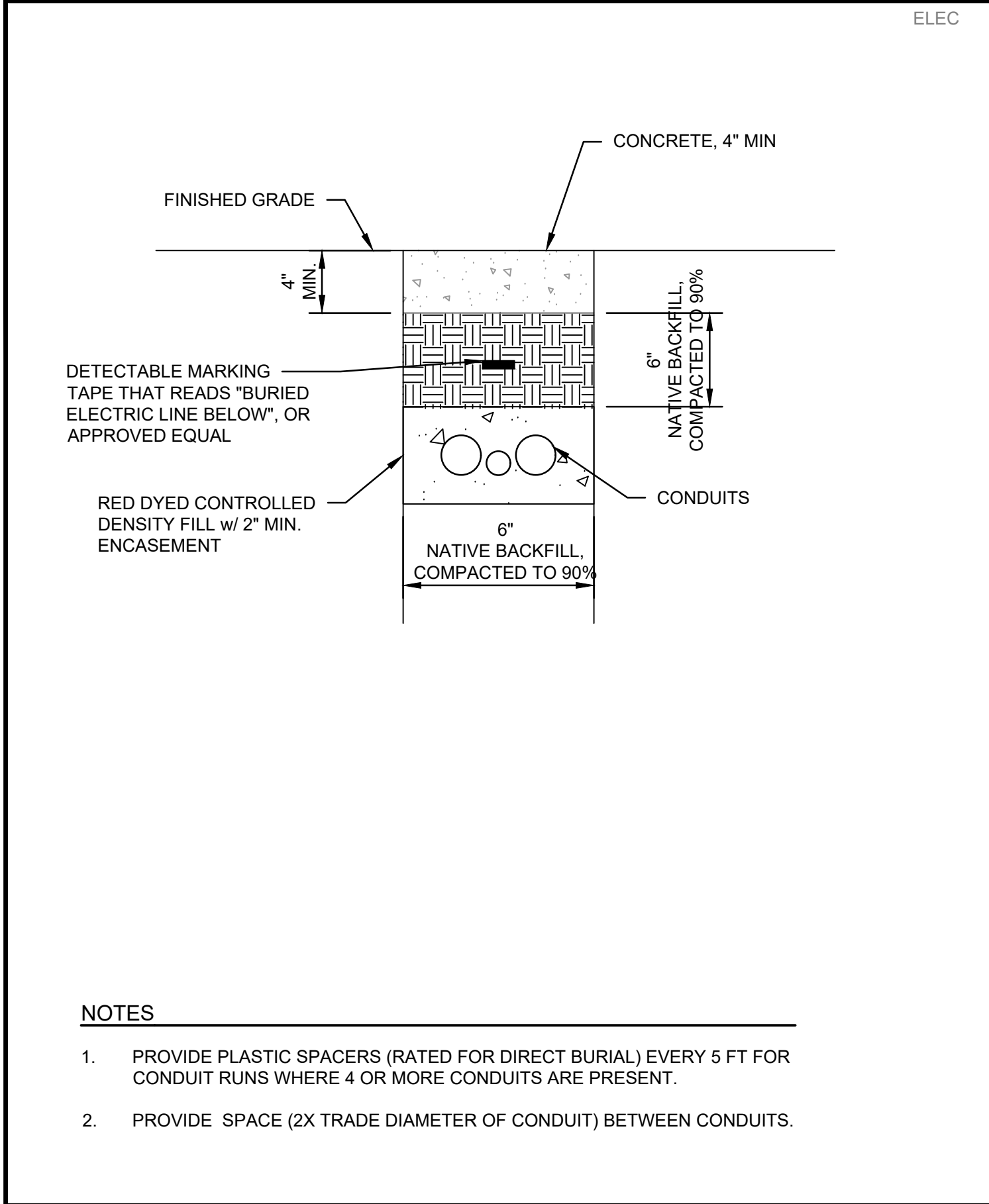
PHASE: DES

0 1"

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

SHEET **E201**

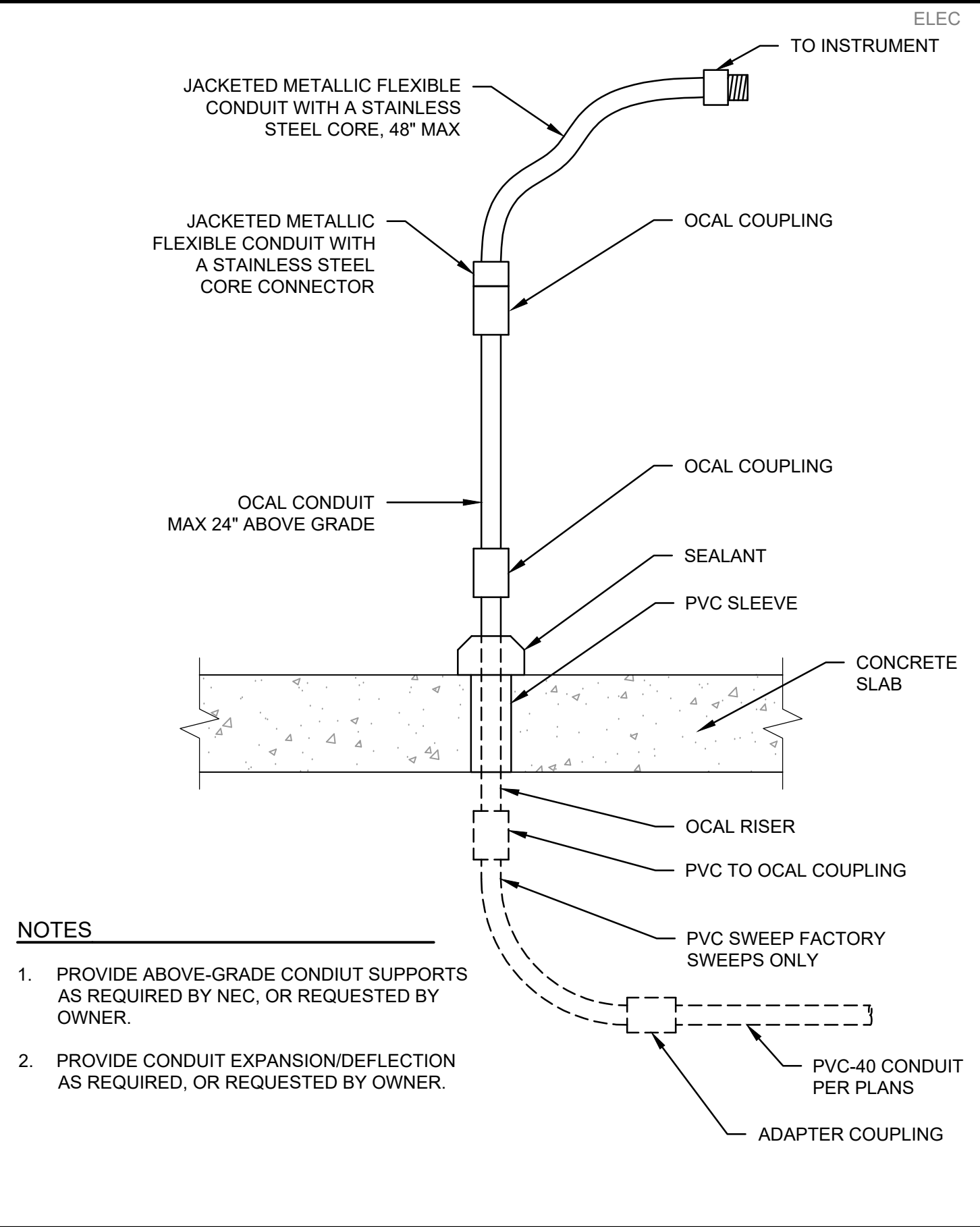
13 OF 18



1
E400

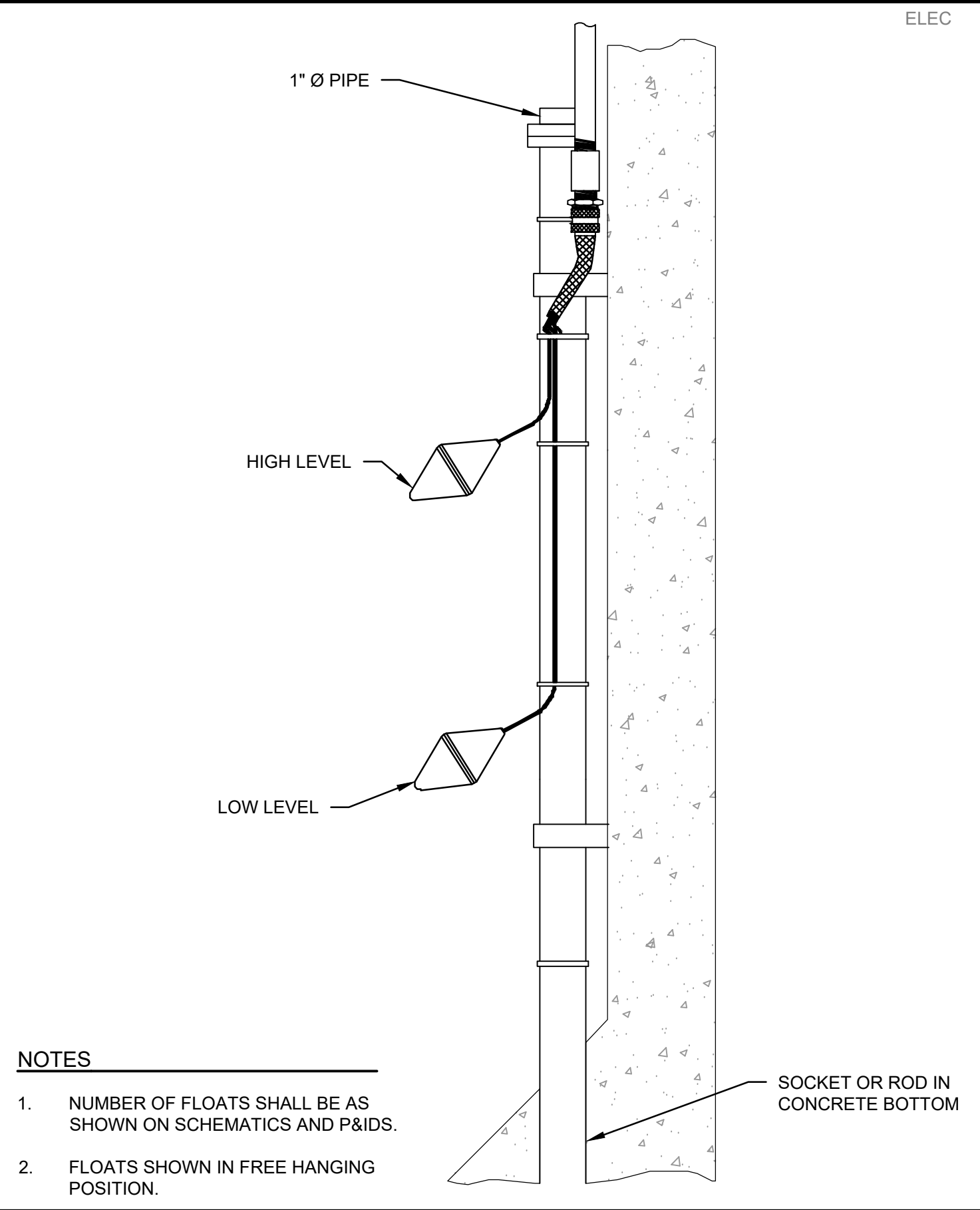
CONCRETE ENCASED CONDUITS

SCALE: 1 1/2" = 1'-0"



2
E400

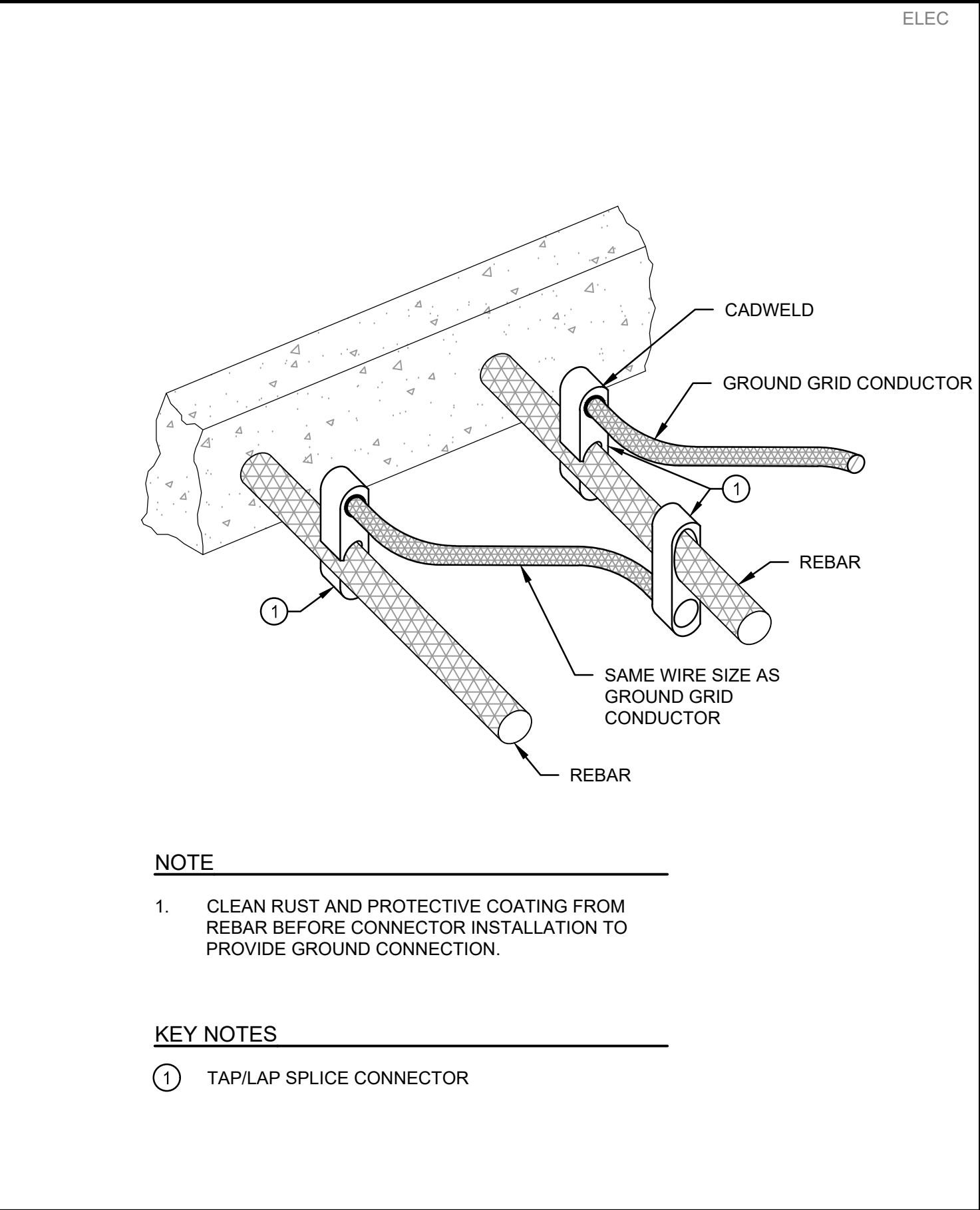
CONDUIT TRANSITION PVC TO RGS



3
E400

FLOAT SWITCH INSTALLATION

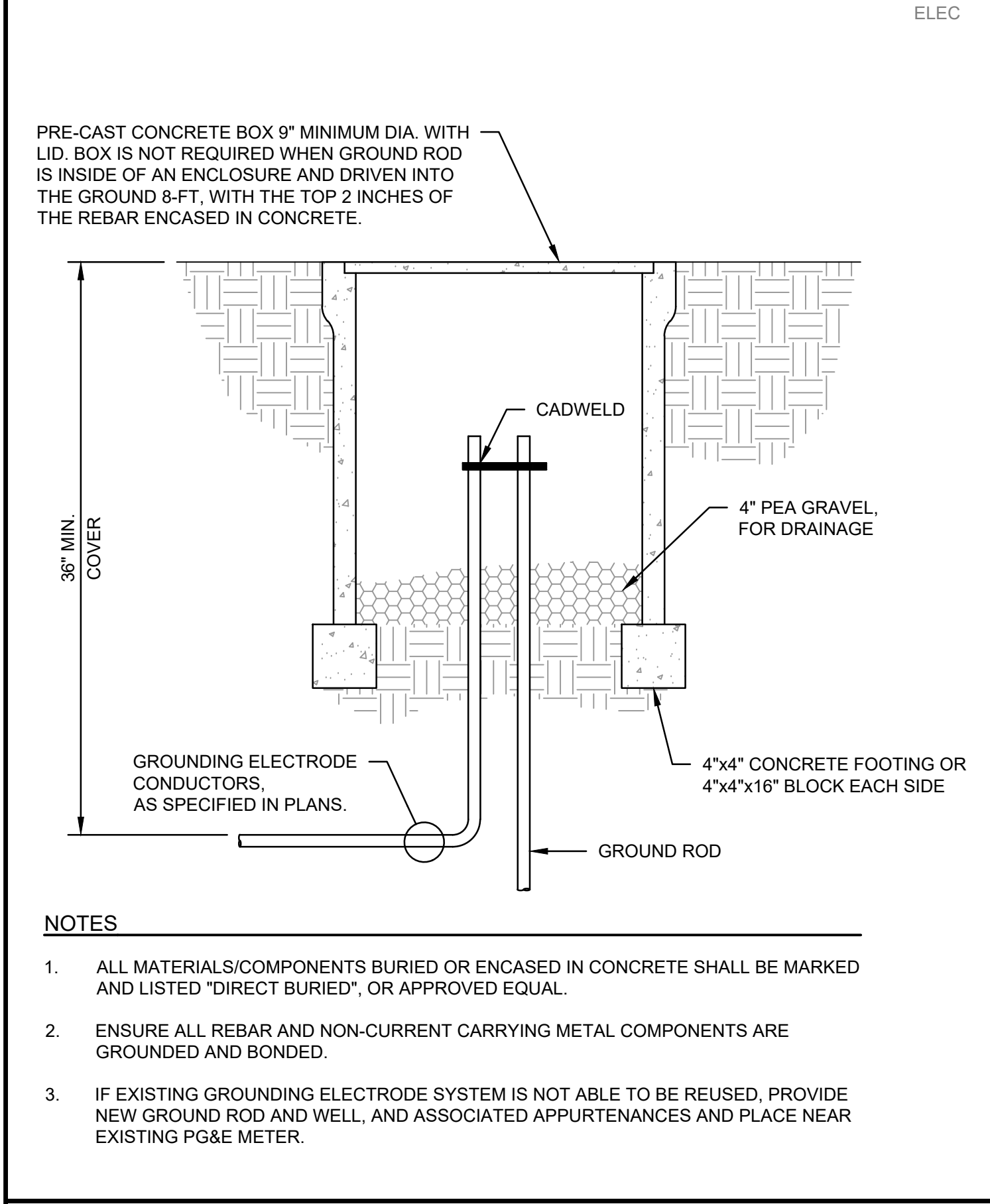
SCALE: 1 1/2" = 1'-0"



4
E400

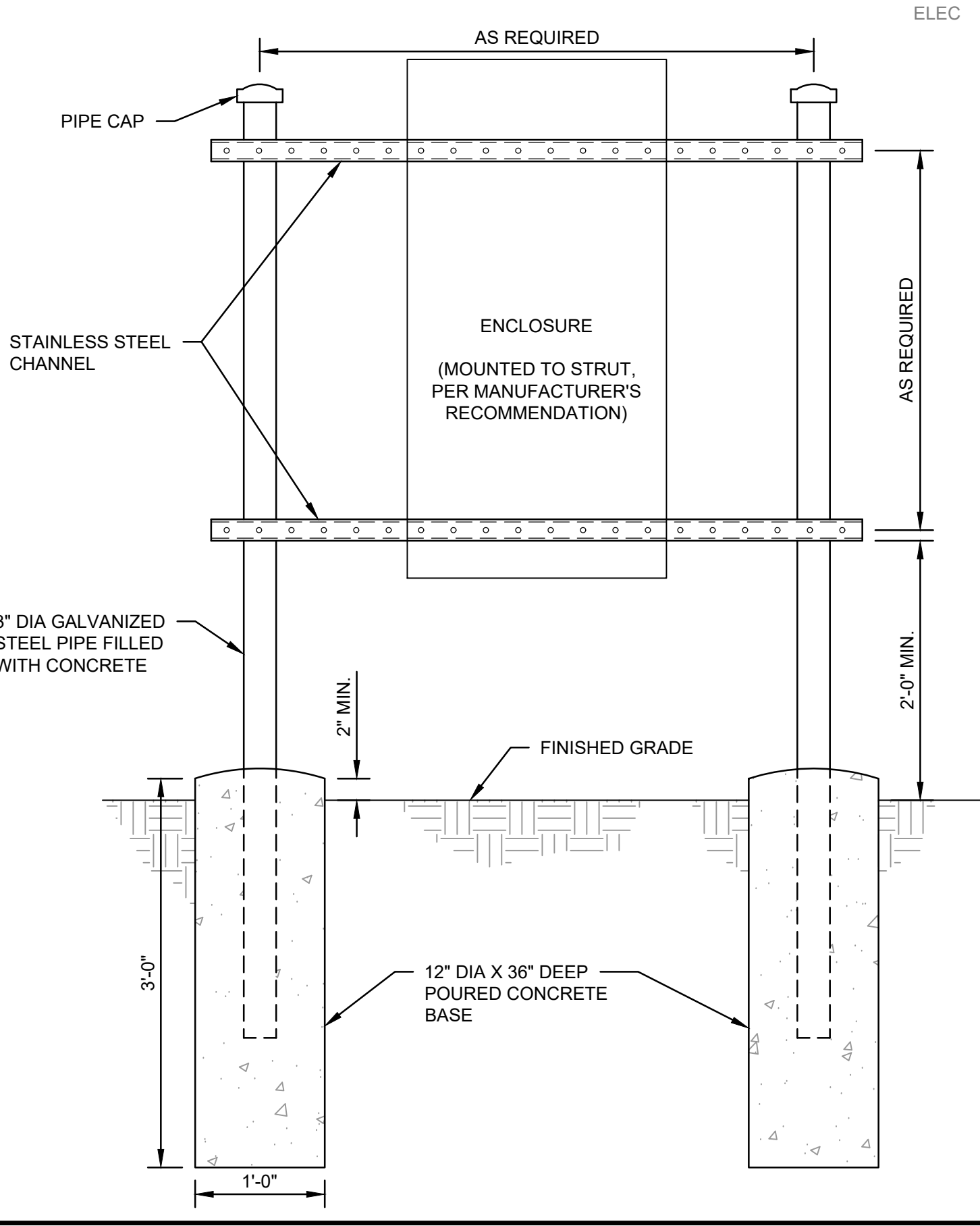
REBAR GROUNDING

SCALE: 1 1/2" = 1'-0"



5
E400

GROUND ROD AND WELL



6
E400

ENCLOSURE MOUNTED ON STRUT AND POSTS

SCALE: 1" = 1'-0"



7
E400

EXISTING PG&E METER AND POWER AND CONTROL PANELS

NOT TO SCALE

COPYRIGHT 2022 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC. THE THIRD PARTY SHALL HOLD THE FIRM OF PROVOST & PRITCHARD ENGINEERING, INC. AND ITS ASSOCIATES, AGENTS, AND EMPLOYEES, HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DOCUMENT.

BID SET
05/02/2025

PROFESSIONAL ENGINEER
HAWAII
SALVATORE CAMP
No. 22947
ELECTRICAL
STATE OF HAWAII

DATE SIGNED: 5/2/2025

ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
ELECTRICAL PLANS

DETAILS

DESIGN ENGINEER:
STEVE SPENCER
LICENSE NO:
CE 54634

DRAFTED BY: LAJ
CHECKED BY: JMG

DATE: 05/02/2025

JOB NO: 350124010

PROJECT NO: 350124010

PHASE: DES

0 1"

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

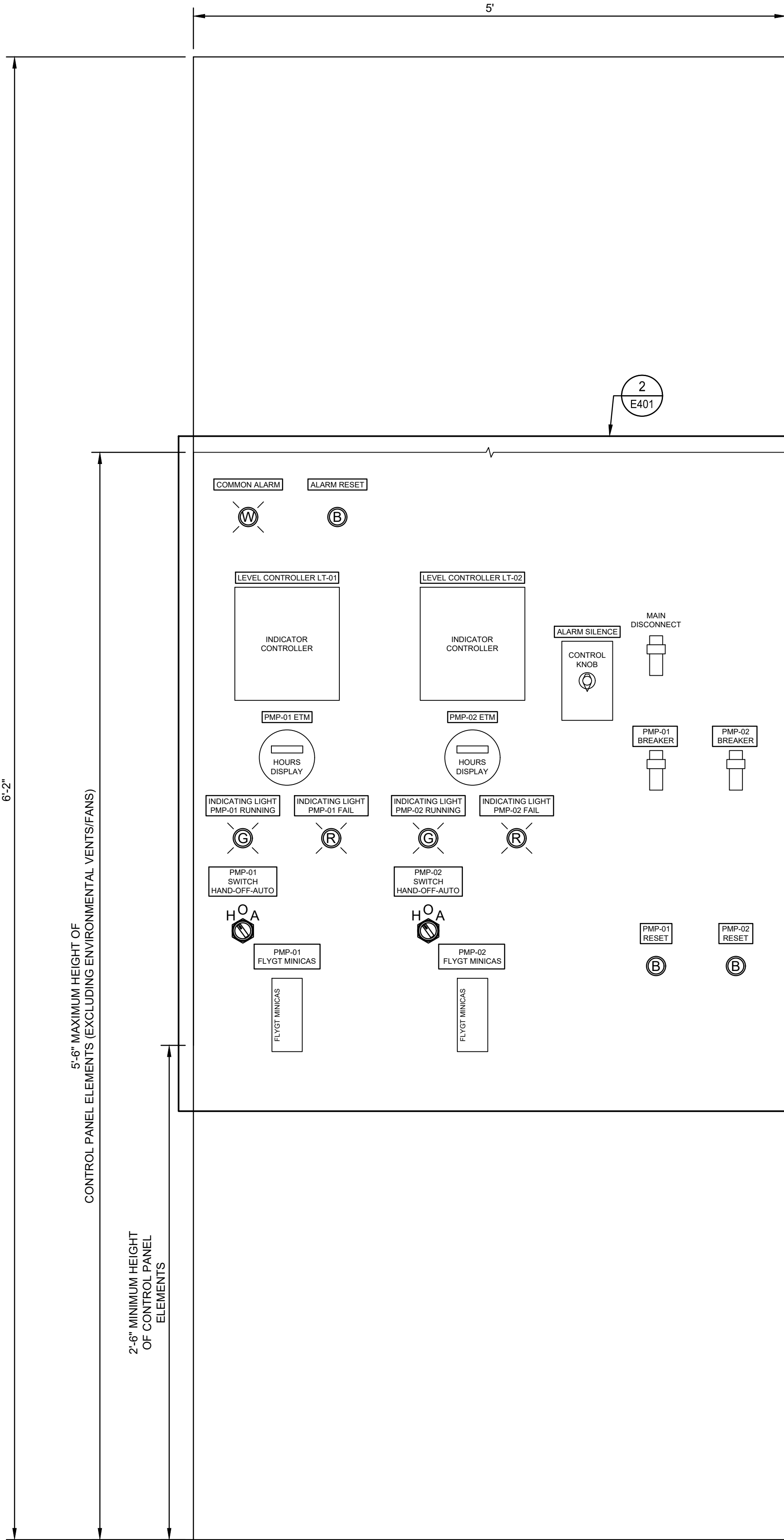
SHEET
E400

15 OF 18

5/2/2025 1:47 PM G:\Los Banos_City of 35010350124010-Orchard Terrace Sewer Electrical Plans\E400 DETAILS.dwg - Dylan Morillas

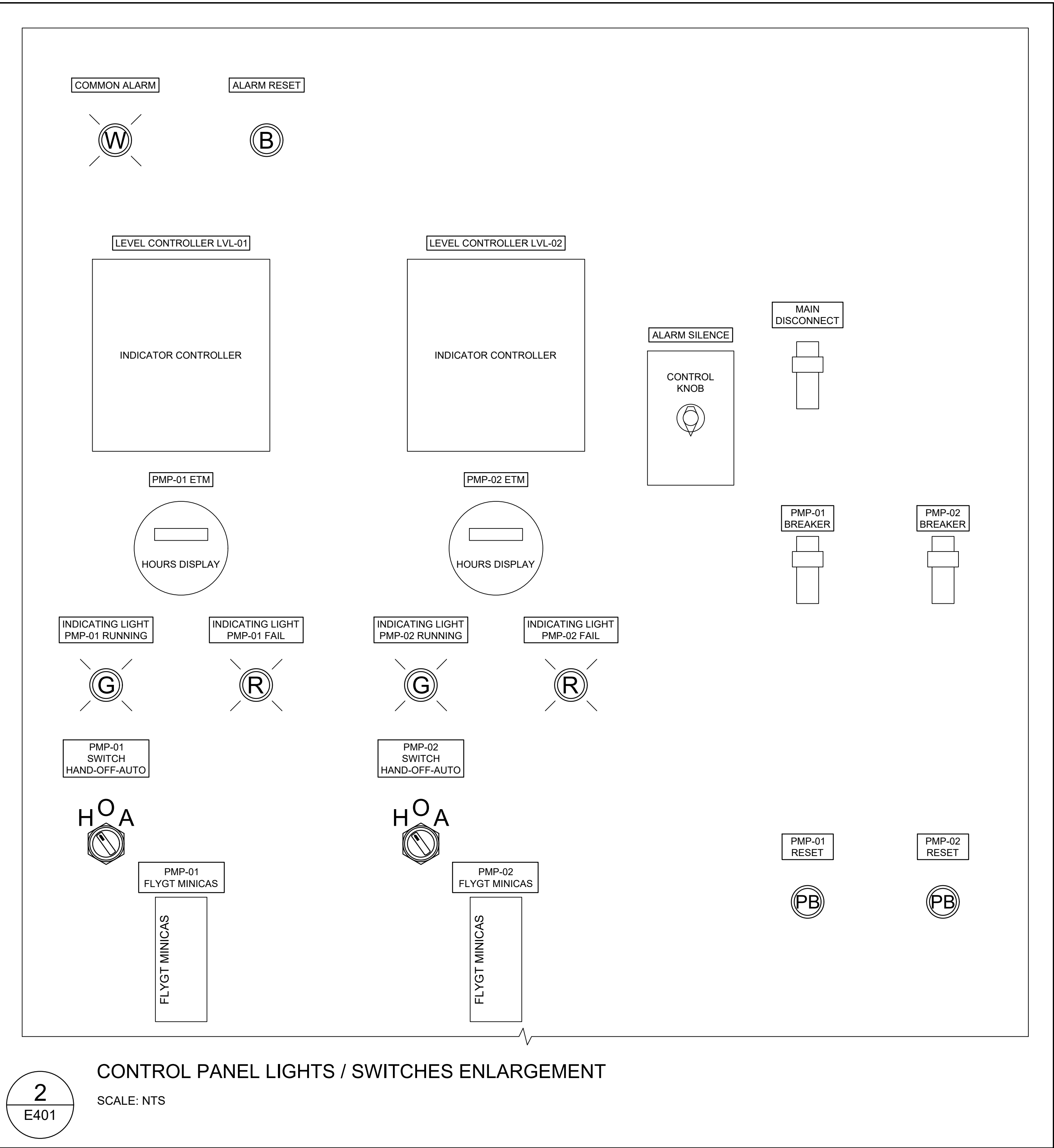
CONTROL PANEL

SCALE: NTS



CONTROL PANEL LIGHTS / SWITCHES ENLARGEMENT

SCALE: NTS



NOTES

- CONTRACTOR SHALL PROVIDE CABINET HEATING/COOLING/CIRCULATION ELEMENTS, TO ENSURE CONTROL ELEMENTS ARE OPERATING WITHIN ENVIRONMENTAL CONDITIONS.
- PROVIDE A DEADFRONT DOOR ON CABINET, TO PROTECT CONTROL ELEMENTS.
- CONTRACTOR SHALL PROVIDE ALL WIRING AND DEVICES IN POWER & CONTROL PANEL, TO ALLOW FOR INTERCONNECTION OF ALL ELEMENTS.

PROVOST & PRITCHARD
249 W. PACHECO BLVD. SUITE B
LOS ANGELES, CA 90007
PHONE (213) 824-1885
FAX (213) 824-1875
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER

LICENSE NO:
CE 54634

DRAFTED BY: LAJ
CHECKED BY: JMG

DATE: 05/02/2025

JOB NO: 350124010

PROJECT NO: 350124010

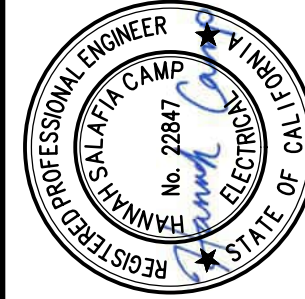
PHASE: DES

0 1"
ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET **E401**

16 OF 18

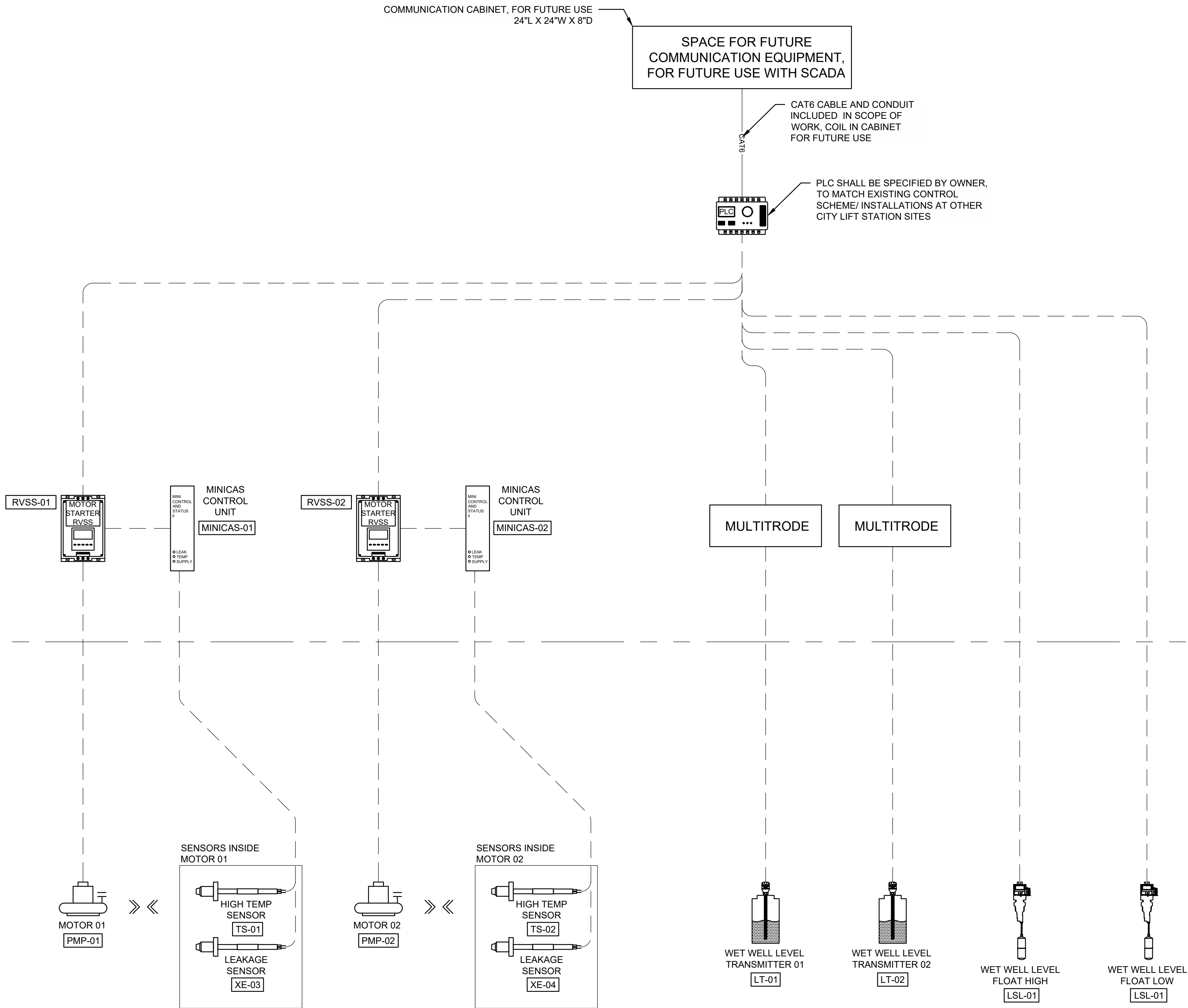
ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS ANOS
MERCED COUNTY
ELECTRICAL PLANS



BID SET
05/02/2025

COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING GROUP, INC. ALL RIGHTS RESERVED.
THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING GROUP, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING GROUP, INC. THE THIRD PARTY SHALL HOLD THE FIRM OF PROVOST & PRITCHARD ENGINEERING GROUP, INC. HARMLESS FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DOCUMENT. PROVOST & PRITCHARD ENGINEERING GROUP, INC. IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DOCUMENT. THE USER OF THIS DOCUMENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. PROVOST & PRITCHARD ENGINEERING GROUP, INC. IS NOT RESPONSIBLE FOR ANY CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DOCUMENT.

CONTROL PANEL
FIELD INSTRUMENTS

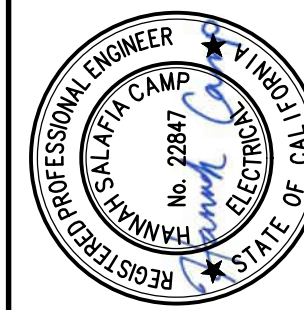


NOTES

1. CONTRACTOR SHALL PROVIDE ALL WIRING AND DEVICES IN POWER & CONTROL PANEL, TO ALLOW FOR INTERCONNECTION OF ALL ELEMENTS.

COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED.
THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC. THE THIRD PARTY SHALL HOLD THE FIRM OF PROVOST & PRITCHARD ENGINEERING, INC. AND ITS ASSOCIATES, ENGINEERS, ARCHITECTS, AND CONSULTANTS, LIABLE FOR ANY AND ALL DAMAGES, LOSSES, AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, INCURRED BY PROVOST & PRITCHARD ENGINEERING, INC. IN ENFORCING THESE RIGHTS.

BID SET
05/02/2025



ORCHARD TERRACE SEWER LIFT STATION
REHABILITATION
CITY OF LOS BANOS
MERCED COUNTY
ELECTRICAL PLANS

PROVOST & PRITCHARD
249 W. PACIFIC BLVD., SUITE B
LOS BANOS, CA 93801
PHONE: (209) 824-1885
FAX: (209) 824-1875
www.provostandpritchard.com

DESIGN ENGINEER:
STEVE SPENCER

LICENSE NO:
CE 54634

DRAFTED BY: LAJ
CHECKED BY: JMG

DATE: 05/02/2025

JOB NO: 350124010

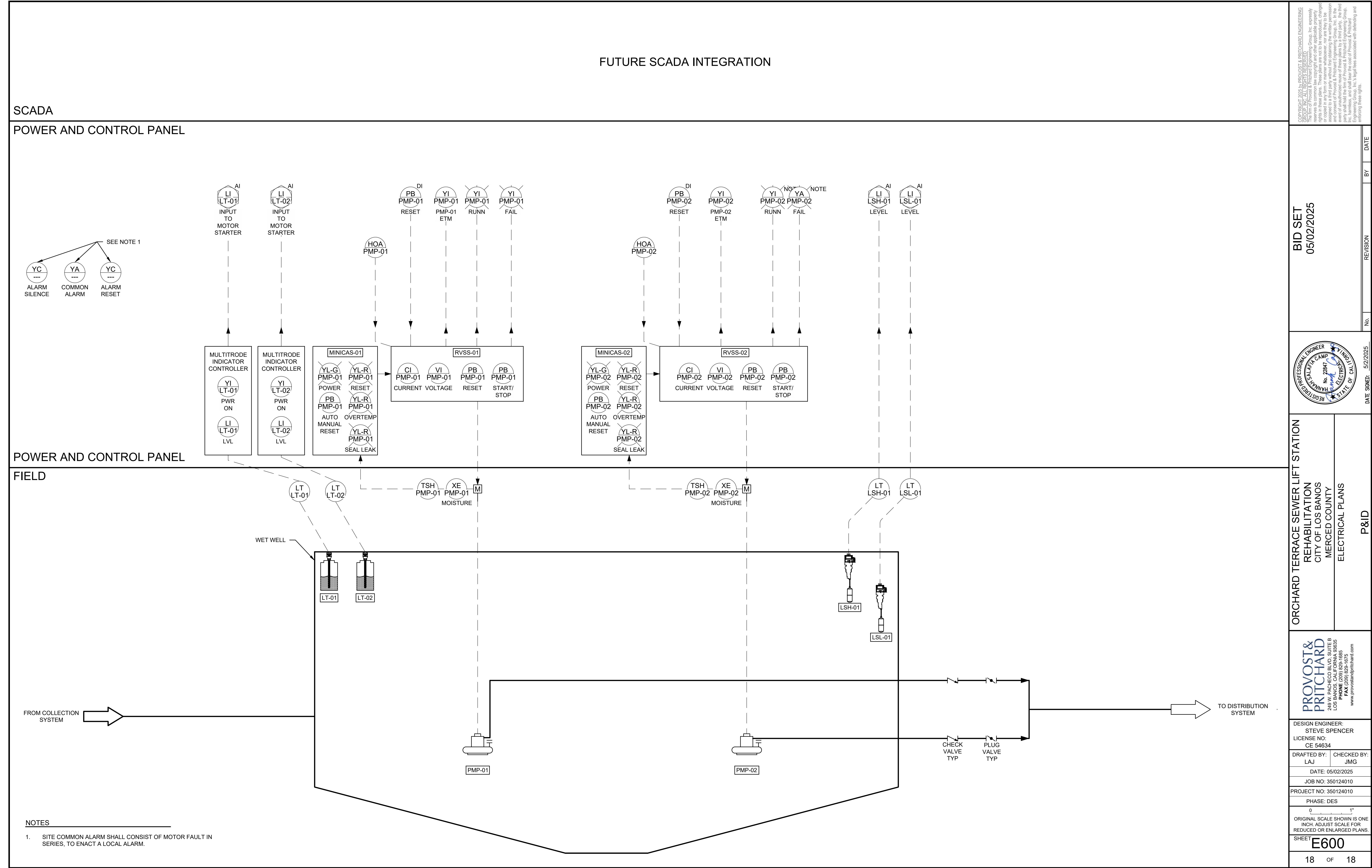
PROJECT NO: 350124010

PHASE: DES

0 1" = 1"
ORIGINAL SCALE SHOWN IS ONE
INCH. ADJUST SCALE FOR
REDUCED OR ENLARGED PLANS.

SHEET
E500

17 OF 18



COPYRIGHT 2025 BY PROVOST & PRITCHARD ENGINEERING, INC. ALL RIGHTS RESERVED. THIS DOCUMENT IS THE PROPERTY OF PROVOST & PRITCHARD ENGINEERING, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF PROVOST & PRITCHARD ENGINEERING, INC., NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS. THE THIRD PARTY SHALL HOLD THE FIRM OF PROVOST & PRITCHARD ENGINEERING, INC. HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DOCUMENT. PROVOST & PRITCHARD ENGINEERING, INC. ACCEPTS NO LIABILITY FOR ANY ERRORS OR OMISSIONS IN THIS DOCUMENT. THE USER OF THIS DOCUMENT SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.

BID SET

05/02/2025

PROFESSIONAL ENGINEER

RES. 522025

RECEIVED

5/2/2025

DATE SIGNED

ORCHARD TERRACE SEWER LIFT STATION

REHABILITATION

CITY OF LOS BANOS

MERCED COUNTY

ELECTRICAL PLANS

P&ID

PROVOST & PRITCHARD

249 W. PACHECO BLVD. SUITE B

LOS BANOS, CA 93801

PHONE (209) 824-1885

FAX (209) 824-1875

www.provostandpritchard.com

DESIGN ENGINEER:

STEVE SPENCER

LICENSE NO:

CE 54634

DRAFTED BY:

LAJ

CHECKED BY:

JMG

DATE:

05/02/2025

JOB NO:

350124010

PROJECT NO:

350124010

PHASE:

DES

0 1"

INCH. ADJUST SCALE FOR REDUCED OR ENLARGED PLANS.

SHEET

E600

18 OF 18

5/2/2025 1:47 PM G:\Los Banos_City of 350124010-Orchard Terrace Sewer\ELECTRICAL PLANS\E600 P&ID.dwg - Dylan Morillas