WESTHAVEN COMMUNITY SERVICES DISTRICT TRINIDAD-WESTHAVEN EMERGENCY INTERTIE PROJECT

FUNDING AGREEMENT BETWEEN THE STATE OF CALIFORNIA (DEPARTMENT OF WATER RESOURCES) AND CITY OF TRINIDAD AGREEMENT NO. 4600014620 **URBAN & MULTIBENEFIT DROUGHT RELIEF GRANT**

CITY OF TRINIDAD CITY COUNCIL

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MAYOR MAYOR PRO-TEM COUNCIL MEMBER COUNCIL MEMBER COUNCIL MEMBER

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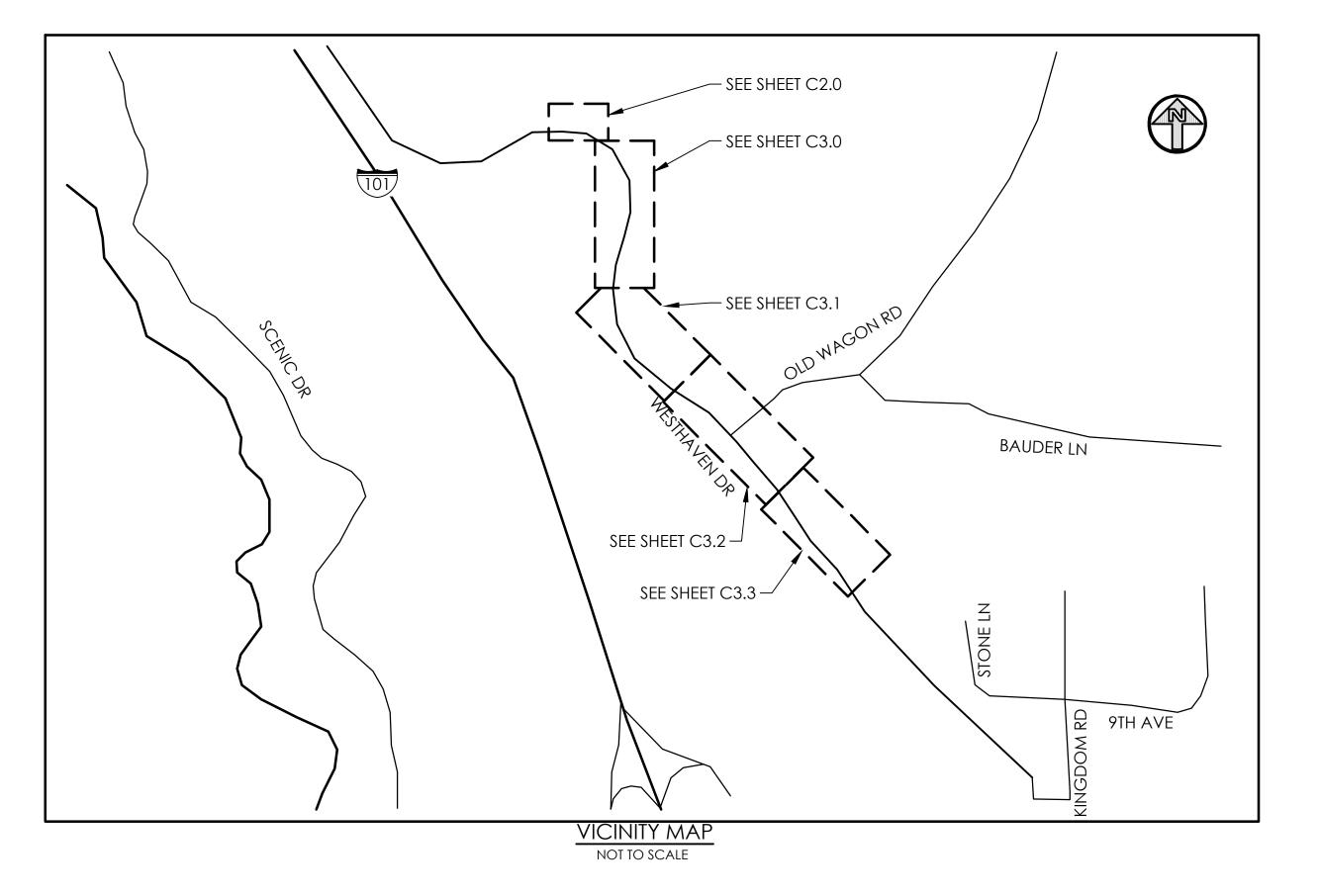
WESTHAVEN COMMUNITY SERVICES DISTRICT STAFF

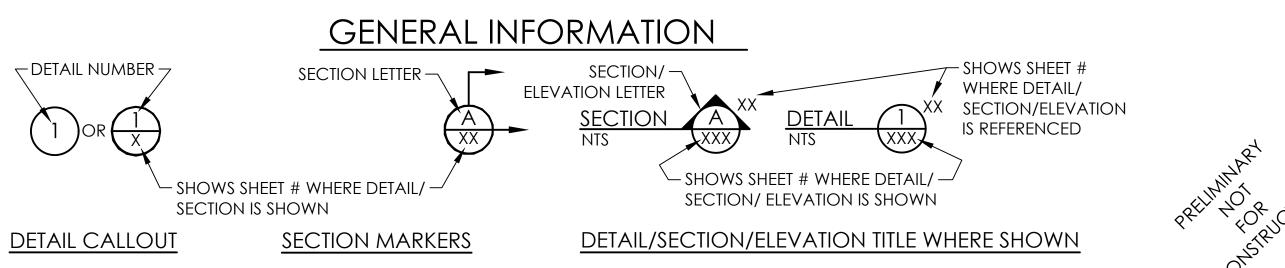
PAUL M. ROSENBLATT

KATRINA MARTIN MADISON HEWITT **ROXANNE LEVANG**

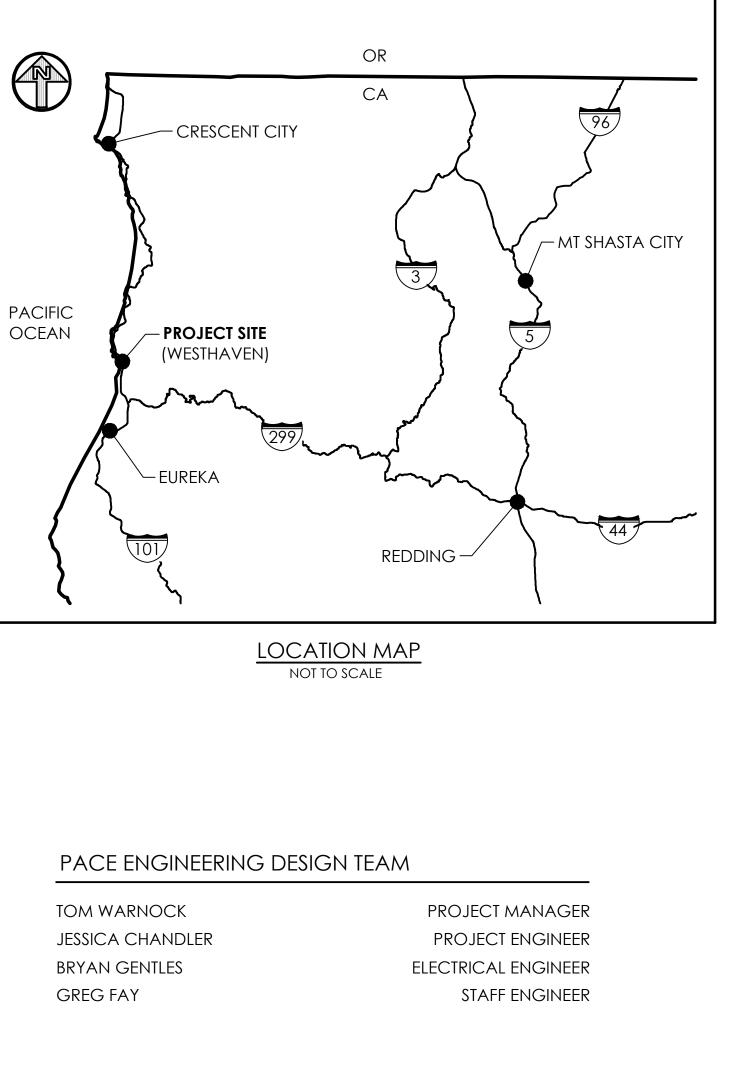
GENERAL MANAGER / CHEIF PLANT OPERATOR T2-34384/D2-42549 LEAD OPERATOR T2-44809/D1-55736 OPERATOR T2-46094/EIT SECRETARY / BOOKKEEPER

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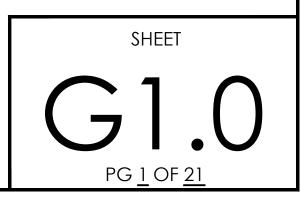




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ABBREVIATIONS - WATER/MECHANICAL

	. .	50
<u>@</u>		FD
ð Nor Dl		FEP
e or PL	PLATE OR PROPERTY LINE	FF
AB	ANCHOR BOLT, AGGREGATE BASE	FG
AC	ASBESTOS CEMENT PIPE or ASPHALT CONCRETE	FH
ADDN'L	ADDITIONAL	FIN
ADH AB	ADHESIVE ANCHOR BOLT	FLEX
4FF	ABOVE FINISH FLOOR	FLG
AGG or AGGR	AGGREGATE	FM
AGS	ABOVE GROUND SURFACE	FMJA
APPROX	APPROXIMATELY	FND
ARV	AIR RELEASE VALVE	FRP
ASTM	AMERICAN SOCIETY FOR TESTING OF MATERIALS	FTG
3&S	BELL & SPIGOT	FTGS
3DRY	BOUNDARY	GA
BGS	BELOW GROUND SURFACE	GAL
365 3KFL	BACKFILL	GALV
	-	
BLDG	BUILDING	GC
BLK	BLOCK	GSP
BLKG	BLOCKING	GV
BM	BENCH MARK OR BEAM	HC
30	BLOW OFF or BLOCK-OUT	HD
BOT or BOTT	BOTTOM	HMA
BUSH	BUSHING	HORIZ
SV	BALL VALVE	HP
SVCE	BEGIN VERTICAL CURVE ELEVATION	HT
SVCE SVCS		HVAC
_	BEGIN VERTICAL CURVE STATION	
C or C/L or 🕑	CENTERLINE	
C or COND	CONDUIT	ID
CAV	COMBINATION AIR RELEASE VALVE	IN
CHEM	CHEMICAL	INSUL
Cl	CAST IRON PIPE	INT
	CAST IN PLACE	INV
CISP	CAST IRON SOIL PIPE	IRRIG
	CONTROL JOINT or CEILING JOIST	JT
CL or CLR	CLEAR	L
	-	LF
		LG
CMP	CORRUGATED METAL PIPE	
CMU	CONCRETE MASONRY UNIT	M
COL	COLUMN	MECH
СОМВ	COMBINATION	MAX
COMP	COMPACTED or COMPOSITION SHINGLES	MFR
CONC	CONCRETE	MIN
CONST	CONSTRUCTION	MISC
CONT	CONTINUOUS	MJ
		MRS
CONTR	CONTRACTOR	MTL
CORP	CORPORATION	
CP	CONTROL PANEL OR CONTROL POINT	(N)
CTR	CENTER	NB&G
CU	COPPER	NF
CV	CHECK VALVE	NIC
CY	CUBIC YARD	No.
)	DRAIN	NPT
DB	DIRECT BURIAL	NTS
		0/
OBL		OC
DET		OD
DIP	DUCTILE IRON PIPE	
AIA	DIAMETER	OF
MIC	DIMENSION	OG
N	DOWN	ОН
DWG	DRAWING	OPG or OPNG
D/W	DRIVEWAY	OPP
	ELECTRICAL CONDUIT	P&ID or PID
E) or EXIST	EXISTING	PE
•	EACH	PER
A		PNL
G	EXISTING GRADE	PNL PNT
EL or ELEV	ELEVATION	
ELEC	ELECTRICAL	#
ELB	ELBOW	PP
EMBED	EMBED or EMBEDMENT	PR
N	EDGE NAILING	PREFAB
NGR	ENGINEER	PROJ
P	EDGE OF PAVEMENT	PRV
		PS
EQ		PSI
R	EDGE OF ROAD	PVC
SMT	EASEMENT	-
EVCE .	END VERTICAL CURVE ELEVATION	PVI
VCS	END VERTICAL CURVE STATION	PW
W	EACH WAY	R
XP AB	EXPANSIVE ANCHOR BOLT	RDW OR RDWI
EXP JT		RED
-	EXPANSION JOINT(S)	REINF
	FEMALE	REQ'D
С	FLEXIBLE COUPLING	REGD
CA	FLANGED COUPLING ADAPTOR	

FRENCH DRAIN OR FLOOR DRAI FLUORINATED ETHYLENE-PROPY FINISHED FLOOR or FAR FACE FINISH GRADE FIRE HYDRANT FINISH FLEXIBLE FLANGE FLOW METER FLANGE X MJ ADAPTER FOUNDATION FIBER REINFORCED POLYETHYLE FOOTING or FITTING FITTINGS GAGE GALLON GALVANIZED GROOVED COUPLING GALVANIZED STEEL PIPE GATE VALVE HALF COUPLING HOLDOWN or HOT DIPPED hot mix asphalt HORIZONTAL HORSE POWER HEIGHT HEATING, VENTILATION, AND AIR INSTRUMENTATION INSIDE DIAMETER INCHES INSULATION INTERIOR or INTERMEDIATE INVERT IRRIGATION JOINT STEEL ANGLE LINEAL FOOT LIP OF GUTTER MECHANICAL MECHANICAL MAXIMUM MANUFACTURER MINIMUM MISCELLANEOUS MECHANICAL JOINT MECHANICAL RUBBER SEAL METAL NEW NUTS, BOLTS, & GASKETS NEAR FACE NOT IN CONTRACT NUMBER NATIONAL PIPE THREAD NOT TO SCALE over ON CENTER OUTSIDE DIAMETER OUTSIDE FACE ORIGINAL GROUND OVERHEAD OPENING OPPOSITE or OPERATING PROCESS INSTRUMENTATION DIA PLAIN END PERIMETER PANEL PAINT POUND POWER POLE PAIR PREFABRICATED PROJECT PRESSURE RELIEF VALVE PIPE SUPPORT POUNDS PER SQUARE INCH POLYVINYL CHLORIDE PIPE POINT OF VERTICAL INTERSECTIO POTABLE WATER RADIUS REDWOOD REDUCER REINFORCEMENT STEEL, REBAR REQUIRED RESTRAINED

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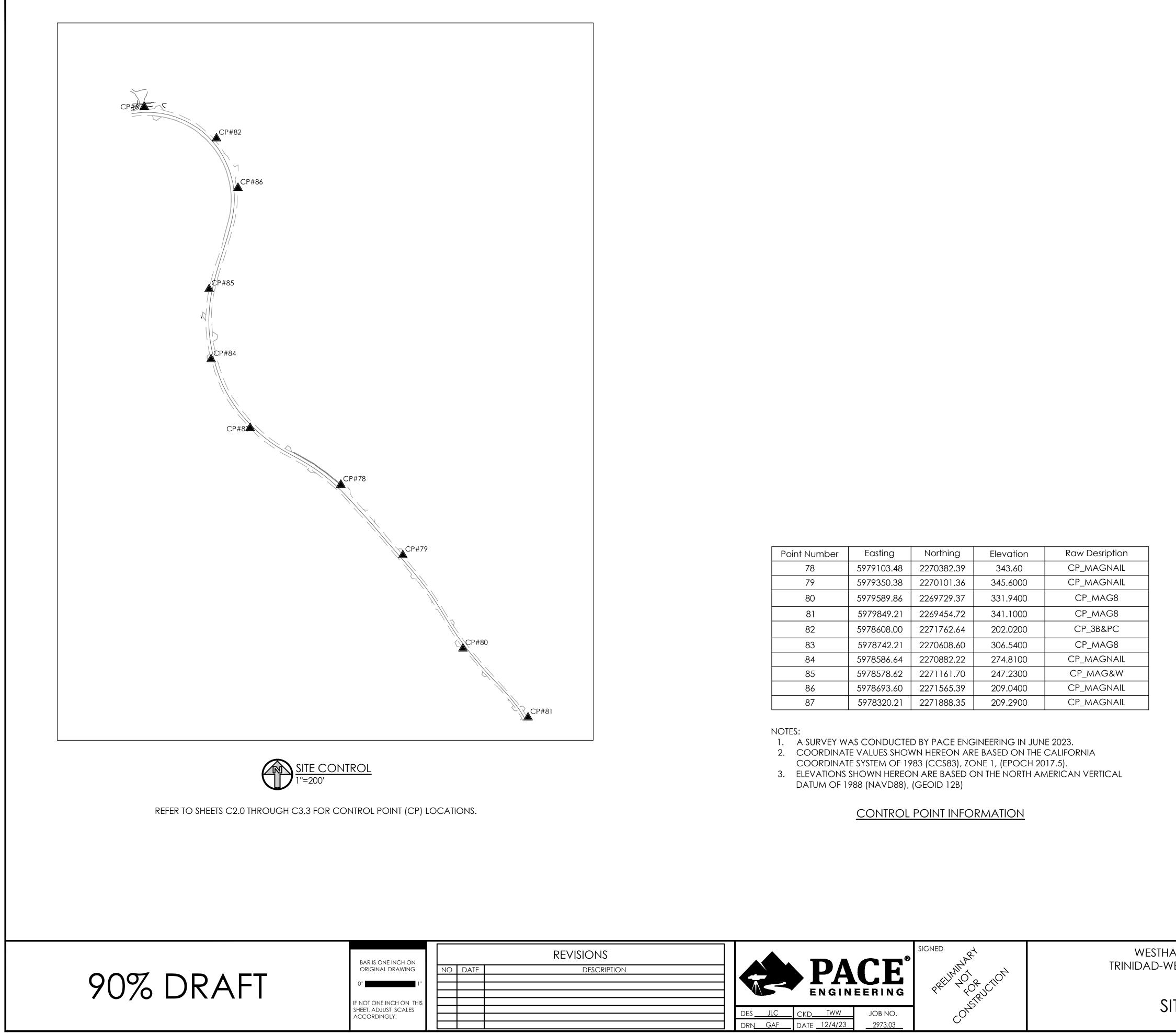
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			SYMBOL LEGEND	LINE LEGEND
PRAIN PPYLENE E YLENE	RFCA RFMJA RFG RMJ RO ROW or R/W S SCH or SCHED SD SECT SGL SH or SHT	RESTRAINED FLANGED COUPLING ADAPTER RESTRAINED FLANGED MECHANICAL JOINT ADAPTER ROOFING RESTRAINED MECHANICAL JOINT ROUGH OPENING RIGHT OF WAY SLOPE SCHEDULE STORM DRAIN SECTION SINGLE SHEET	 AREA DRAIN BOLLARD CENTERLINE CONTROL POINT CULVERT DRAINAGE DIRECTION ARROW ELECTRICAL PANEL / BOX FOUND MONUMENT AS NOTED 	
	SHTG SIM SMS SP SPEC'S SQ SS STA STD STL STRUCT SYM T T	SHEATHING, SHEETING SIMILAR SHEET METAL SCREW SPACE or SPACES SPECIFICATIONS SQUARE SANITARY SEWER or STAINLESS STEEL STATION STANDARD STEEL STRUCTURAL SYMMETRICAL TELEPHONE CONDUIT or TOP TOP, AND BOTTOM	 (E) FIRE HYDRANT (N) FIRE HYDRANT GUY ANCHOR + GRID TICK ⊕ HOSE BIB ↓ LIGHT POLE ○ POLE- JOINT UTILITY ○ POLE- POWER ○ SIGN 	
DAIR CONDITIONING	T&B TBC TBM TC TELE THD THK TL TN TOW TR TUBE TYP UG UNO V VC VC VC VERT W W/ W/ W/O WTP WV	TOP AND BOTTOM TOP BACK OF CURVE TEMPORARY BENCH MARK TOP OF CONCRETE TELEPHONE THREADED THICK or THICKNESS TRAFFIC LID TOE NAIL TOP OF WALL THRUST RESTRAINT TUBING TYPICAL UNDER GROUND UNLESS NOTED OTHERWISE VENT VERTICAL CURVE VERTICAL WATER WITH WITHOUT WATER TREATMENT PLANT WATER VALVE	 STORM DRAIN CATCH BASIN TREE/SHRUB WATER BLOWOFF OR AIR RELEASE VALVE WATER METER/BOX (E) WATER VALVE (N) WATER VALVE FIBER OPTIC MARKER 	
DIAGRAM CTION	1. 2. 3. 4.	NERAL NOTES UNLESS NOTED OTHERWISE (UNO), ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT MANUAL, THE 2021 EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OR "GREEN BOOK", AND CALTRANS STANDARD PLANS AND SPECIFICATIONS 2022 EDITION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT 811 AND ALL UTILITY COMPANIES ONE (1) WEEK BEFORE ANY TRENCHING TO DETERMINE THE LOCATION OF ALL UNDERGROUND FACILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING FACILITIES FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL FIELD LOCATE (POTHOLE) ALL UTILITY CROSSINGS A MINIMUM OF THREE (3) DAYS PRIOR TO CONSTRUCTION. ALL PROPERTY LINES AND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ALL UTILITY LOCATIONS INCLUDING WATER SERVICE LOCATIONS AND ALIGNMENTS AND DEPTHS, WHERE SHOWN, ARE APPROXIMATE. THE CONTRACTOR SHALL POTHOLE USING NON-DESTRUCTIVE MEANS AND SUBMIT WRITTEN FIELD OBSERVATION DRAWINGS OF THE PROPOSED AND EXISTING PIPE ALIGNMENTS AT LEAST FIVE (5) WORKING DAYS AHEAD OF THE PIPE INSTALLATION CREW. REFER TO THE PROJECT MANUAL. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE UNDERSIGNED ENGINEER AND OWNER.	 THE CONTRACTOR AGREES THAT THEY 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 AND THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURVEY MONUMENTS. ANY MONUMENTS DISCOVERED ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. ANY SURVEY MONUMENTS DISTURBED OUTSIDE THE IMMEDIATE WORK AREA DURING CONSTRUCTION SHALL BE REPLACED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. ALL CONTRACTOR'S REPRESENTATIVES, INCLUDING SUBCONTRACTORS, SHALL HAVE WRITTEN PERMISSION TO ENTER ANY PORTION OF PRIVATE PROPERTY. ALL RESIDENCES SHALL BE GIVEN A MINIMUM OF 24 HOURS, BUT NO MORE THEN 72 HOURS NOTICE, PRIOR TO ENTRY/WORK ON PRIVATE PROPERTY. CONTRACTOR SHALL SUBMIT COMPLETE AND ACCURATE AS-BUILT DRAWINGS. SEPARATION OF WATER AND STORM DRAIN FACILITIES SHALL CONFORM TO THE RULES AND REGULATIONS OF THE UNIFORM PLUMBING CODE AND STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD. 	 ALL NEW WATER MAIN INSTALLATION SHALL BE OPEN CUT UNLESS ALTERNATIVE METHOD IS APPROVED BY ENGINEER, OR NOTED OTHERWISE. CONTRACTOR SHALL INSTALL A PROJECT SIGN AT LEAST FOUR FEET TALL BY EIGHT FEET WIDE MADE OF ³/₄ INCH THICK EXTERIOR GRADE PLYWOOD OR OTHER APPROVED MATERIAL AND SHALL MAINTAIN THE SIGN IN GOOD CONDITION FOR THE DURATION OF THE CONSTRUCTION PERIOD, REFER TO PROJECT MANUAL. ALL TUNNELING UNDER (E) CONC CURB, GUTTER, OR SIDEWALK SHALL BE BACKFILLED WITH SLURRY BACKFILL OR CONC. PER THE REQUIREMENTS OF PUBLIC RESOURCES CODE SECTION 4442, CONTRACTOR'S INTERNAL COMBUSTION ENGINES SHALL BE EQUIPPED WITH AN OPERATIONAL SPARK ARRESTOR, OR THE ENGINE MUST BE EQUIPPED FOR THE PREVENTION OF FIRE. PIPES TO BE ABANDONED SHALL NOT TAKE PLACE UNTIL (N) WATER MAIN AND SERVICES HAVE BEEN FULLY TESTED, APPROVED FOR SERVICE AND CONNECTED.
IONS description	DES	SIGNED SI	WESTHAVEN COMMUNITY SERV TRINIDAD-WESTHAVEN EMERGENCY LEGEND & NO	TES GIAN
	DRN	GAF DATE 12/4/23 2973.03		PG <u>2</u> OF <u>21</u>



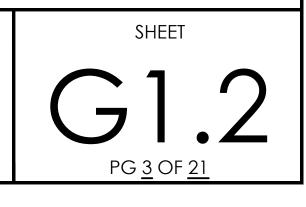
	LINE LEGEND	
		— — (E) EP
		—— (N) EP
		(E) CONC
		(N) CONC
		PROPERTY LINE
WC		FLOWLINE
	(E)W	(E) WATER MAIN
ſED		(N) WATER MAIN
		— — (E) STORM DRAIN
		(N) STORM DRAIN
	· ·	(E) GAS LINE
	· ·	. — (N) GAS LINE
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	———— F/O ———	FIBER OPTIC
	X	CHAIN LINK FENCE

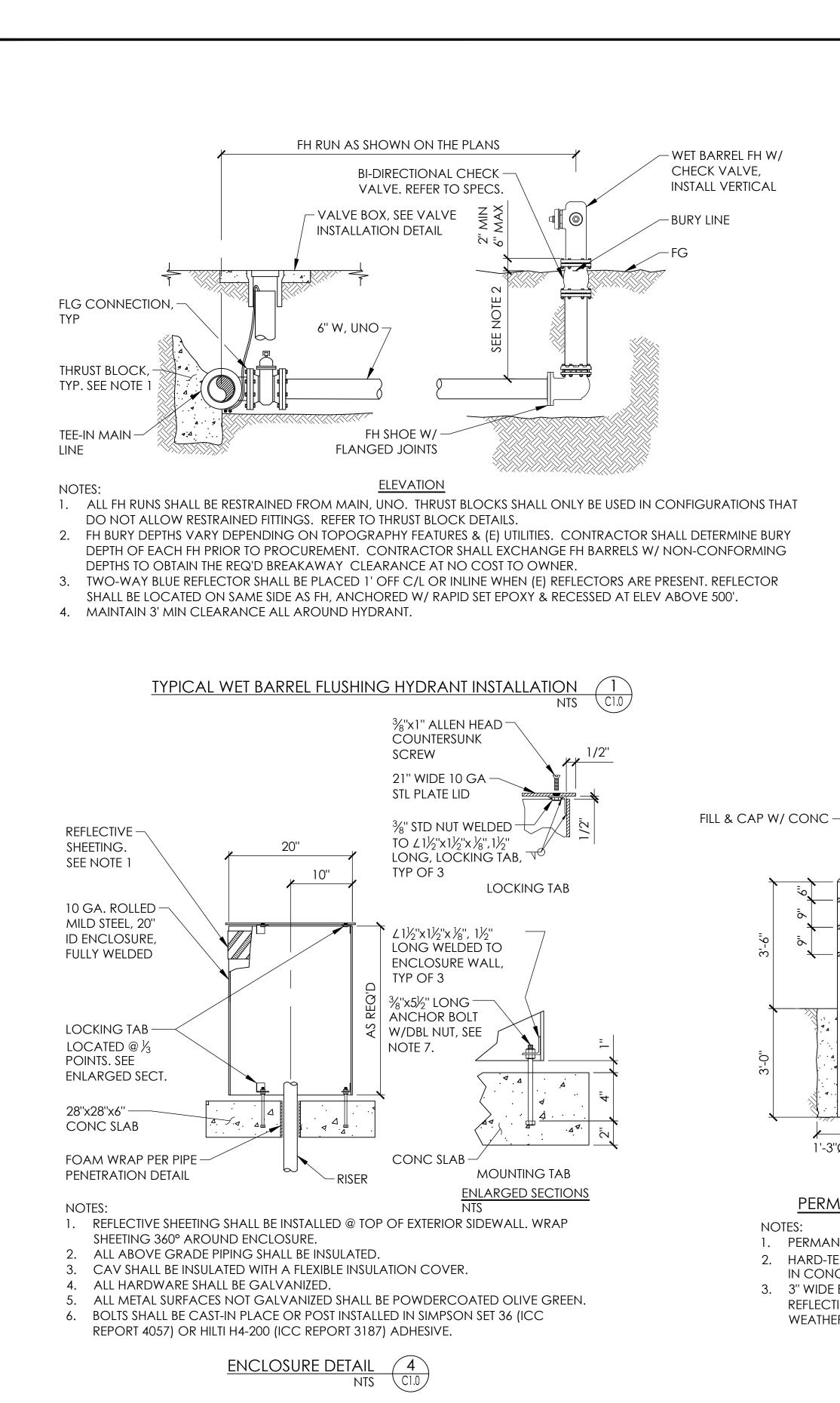


Point Number	Easting	Northing	Elevation	Raw Desription
78	5979103.48	2270382.39	343.60	CP_MAGNAIL
79	5979350.38	2270101.36	345.6000	CP_MAGNAIL
80	5979589.86	2269729.37	331.9400	CP_MAG8
81	5979849.21	2269454.72	341.1000	CP_MAG8
82	5978608.00	2271762.64	202.0200	CP_3B&PC
83	5978742.21	2270608.60	306.5400	CP_MAG8
84	5978586.64	2270882.22	274.8100	CP_MAGNAIL
85	5978578.62	2271161.70	247.2300	CP_MAG&W
86	5978693.60	2271565.39	209.0400	CP_MAGNAIL
87	5978320.21	2271888.35	209.2900	CP_MAGNAIL

SITE SURVEY CONTROL

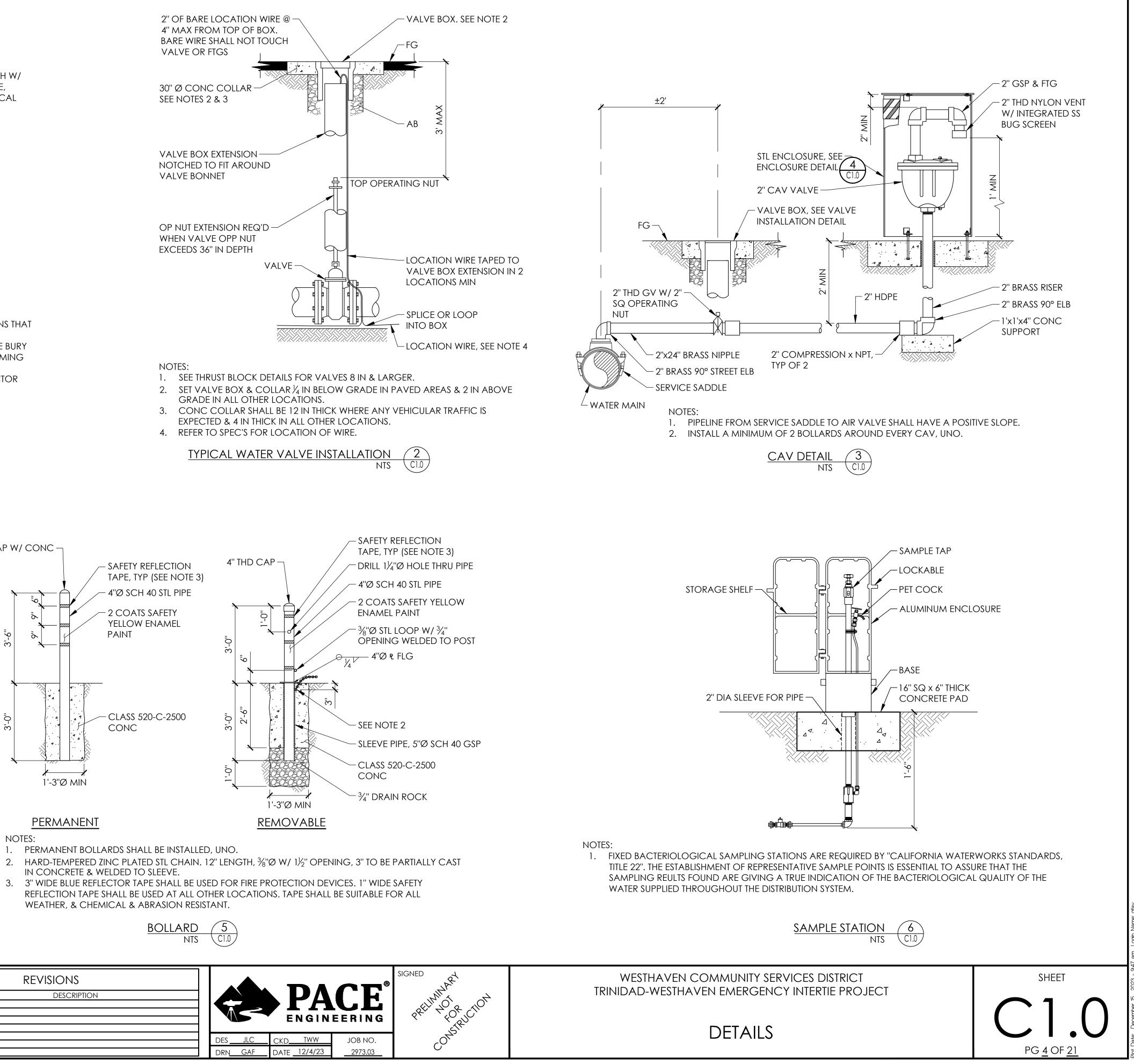
WESTHAVEN COMMUNITY SERVICES DISTRICT TRINIDAD-WESTHAVEN EMERGENCY INTERTIE PROJECT



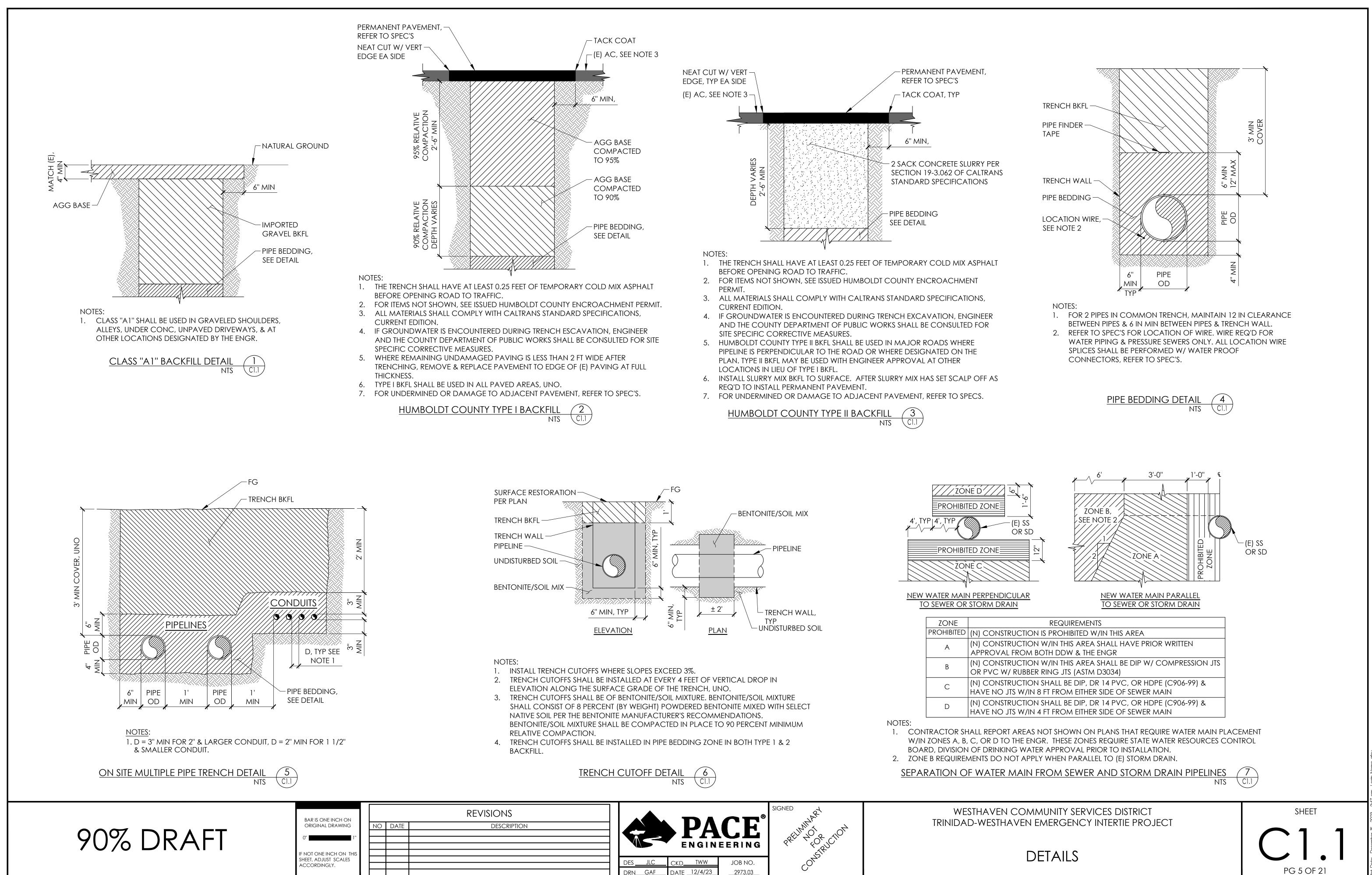


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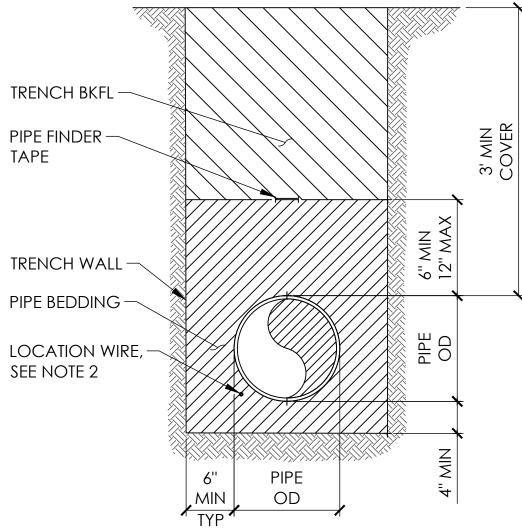
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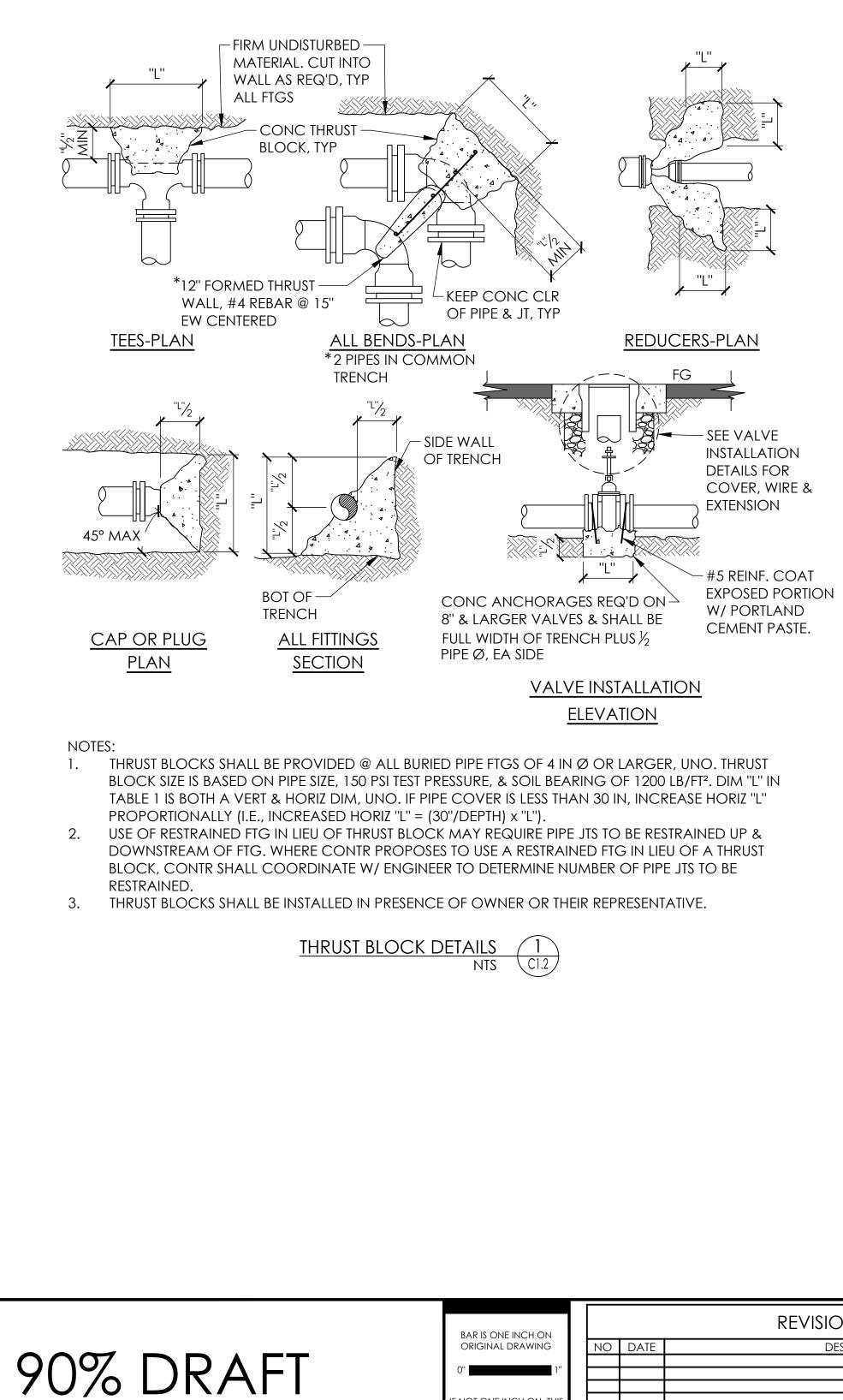


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TABLE 1	
STD THRUST BLOCK MIN DIM "L" IN ING	CHES
FTGS	

NOMINAL				FTGS			
PIPE Ø INCHES	TEE, WYE, OR PLUG	90° BEND	45° BEND	22 ½° BEND	11¼° BEND	reducer (based on largest Ø)	VALVE
4''	18	22	16	11	8		
6''	26	31	23	16	12		
8"	34	41	30	21	15	17	12
10''	42	50	37	26	19	21	12
12"	50	59	44	31	22	25	16
14''	58	68	50	36	26	30	16
16"	66	78	57	41	29	33	18
18"	73	87	64	46	33	37	REQUIRES
20''	81	97	71	51	36	41	Special
24''	97	115	85	61	43	49	DESIGN

NOTES:

1. INCREASE ALL DIMS IN TABLE 1 BY 10% TO ALLOW FOR INCREASE IN PRESSURE TO 175 PSI.

TABLE 2 VERT FTG THRUST BLOCKS

WHERE VERT BENDS ARE DIRECTED W/ THRUST TOWARD BOT OF THE TRENCH, BENDS SHALL HAVE THRUST BLOCKS PER HORIZ BENDS EXCEPT CONC SHALL BEAR AGAINST TRENCH BOT.

WHERE VERT BENDS ARE DIRECTED W/ THRUST TOWARD TOP OF TRENCH, BENDS SHALL BE INSTALLED PER THE FOLLOWING DETAIL. MIN ROD EMBED SHALL BE 30" FOR 12" & SMALLER PIPE & 36" FOR 14" & LARGER PIPE.

CY CONC FOR VERTIFIGS (SEE DETAIL BELOW)									
BEND	PIPE Ø								
ANGLE	4''	6''	8''	10''	12"	14''	16'' & OVER		
11¼°	0.2	0.4	0.7	1.1	1.5	2.0			
22 ½°	0.4	0.8	1.4	2.1	3.0	4.0	REQUIRES SPECIAL		
45 [°]	0.8	1.6	2.8	4.2	5.9	7.9	DESIGN		
90°	1.4	3.0	5.1	7.7	10.9	14.6	DESIGN		
STL RODS. TWO ⁵ / ₈ " Ø MIN. ADD EXTRA ROD FOR EVERY 2 CY CONC OVER 4 CY. COAT EXPOSED RODS W/ PORTLAND CEMENT PASTE. ELEVATION CONC PER TABLE 2.									
THRUST BLOCK TABLES 2 NTS C1.2									

CY CONC FOR VERT FTGS (SEE DETAIL BELOW)

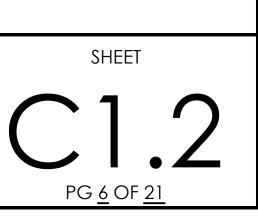
ONS DESCRIPTION	PACE ENGINEERIN	© SIGNED SIGNED PRELIMITAR PRELIMITAR FORUCION STRUCTION	WESTHAVEN (TRINIDAD-WESTHA
	DES JLC CKD TWW JOB NC DRN GAF DATE 12/4/23 2973.03	()	

NOTE: 2.

RESTRAINT LENGTH TABLES FOR PIPE JOINTS AND FITI

DETAILS

I COMMUNITY SERVICES DISTRICT HAVEN EMERGENCY INTERTIE PROJECT



PVC ALLOWABLE BENDING RADIUS 20' LENGTHS 4 NTS C1.2

	TABLE 4	
SIZE	MINIMUM BEND RADIUS, R (FT)	MAXIMUM END OFFSET, Z (FT)
4''	150	1.3
6''	215	0.9
8"	285	0.6
10"	350	0.5

tings	$\overline{(3)}$
NTS	C1.2

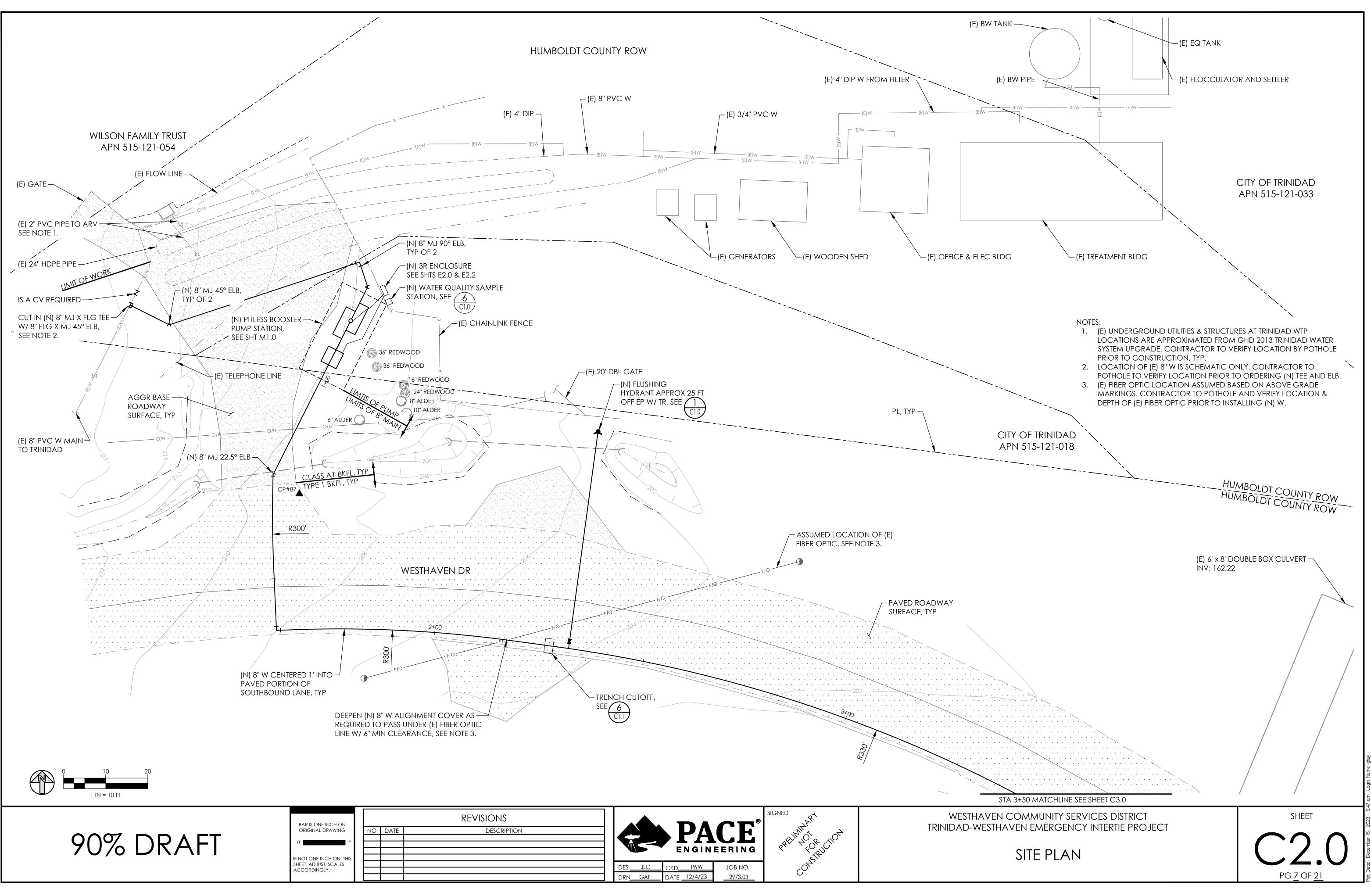
3. TEE RESTRAINT LENGTH VALUES REFLECT THE LENGTH OF PIPE ALONG THE BRANCH WHERE ALL FITTINGS AND JOINTS SHALL BE RESTRAINED. THE RESTRAINT LENGTH ALONG THE BRANCH WAS CALCULATED ASSUMING 10 LF OF RESTRAINED JOINTS EACH WAY ALONG THE PIPE RUN, UNO. RESTRAINED PIPE LENGTH ALONG THE BRANCH WILL CHANGE AS RESTRAINED LENGTH ALONG THE PIPE RUN CHANGES. CONTRACTOR SHALL SUBMIT CALCULATIONS TO ENGINEER FOR APPROVAL IF RESTRAINED PIPE LENGTH ALONG THE RUN IS GREATER THAN OR LESS THAN 10 LF.

DEPTH OF BURY = 3 FT.

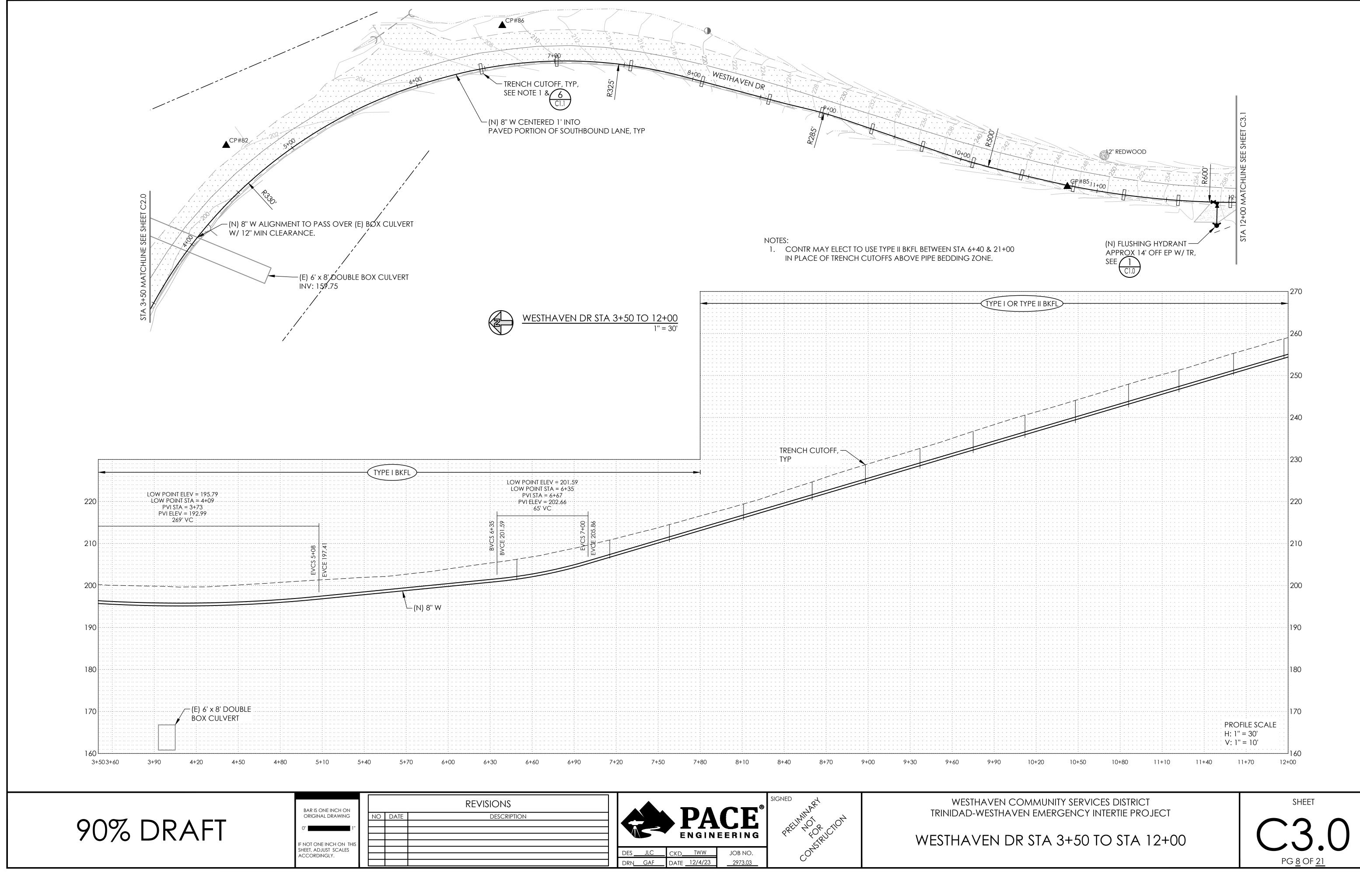
TEST PRESSURE = 150 PSI.

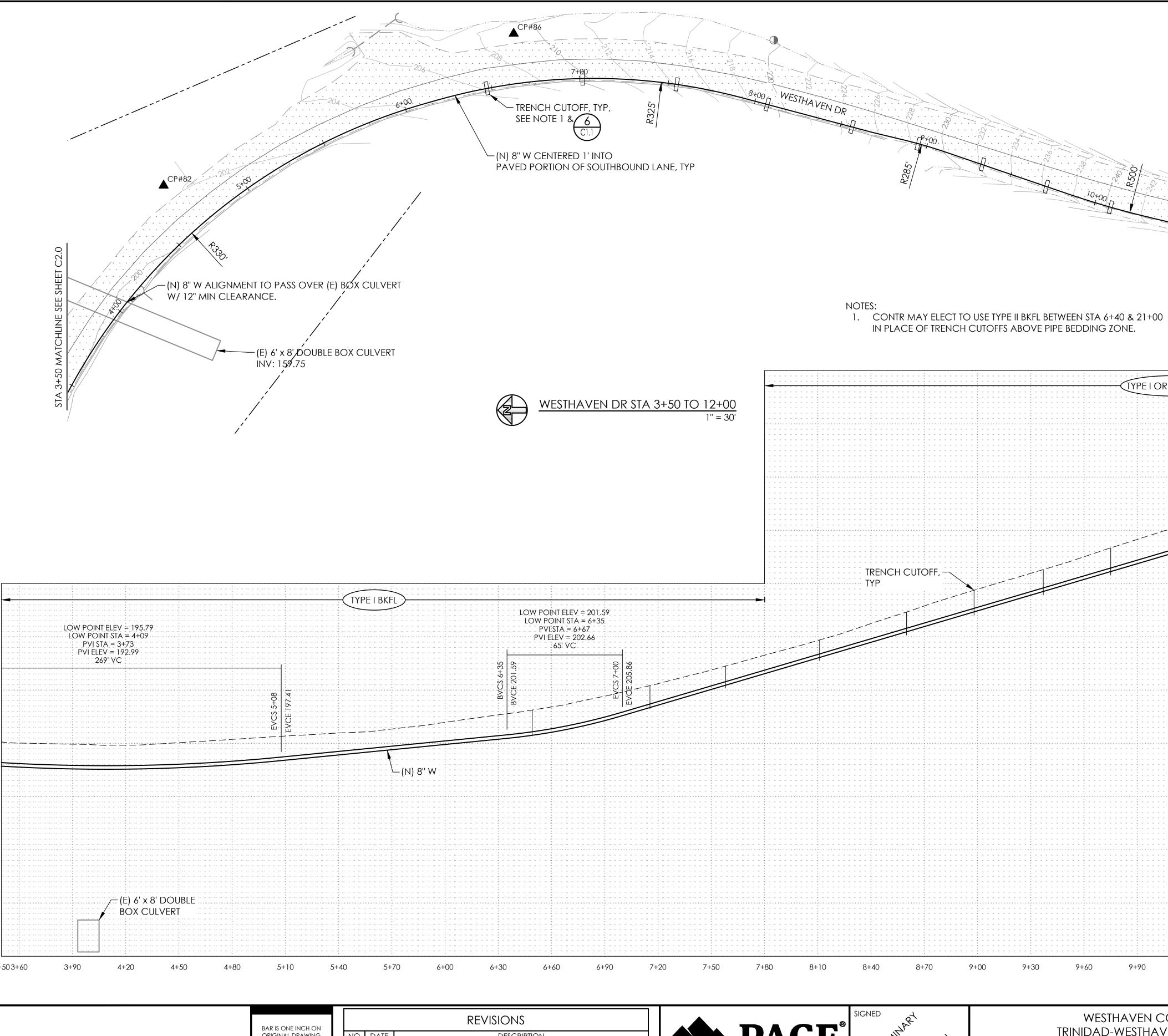
SIZE	PIPE FITTING	MIN. RESTRAINED PIPE LENGTH (FT)
10"	TEE	6
10"	90° ELB	30
10"	45° ELB	13
10"	11.25° ELB	5
10"x6"	TEE	5
8"	TEE	5
8"	90° ELB	25
8"	45° ELB	11
8"	11.25° ELB	5
8"	CAP	80
8"x6"	TEE	5
8"x4"	TEE	5
6"	TEE	5
6"	90° ELB	19
6"	45° ELB	8
6"	11.25° ELB	5
6"	CAP	60
6"x4"	TEE	5
4"	TEE	5
4''	90° ELB	14
4''	45° ELB	6
4''	11.25° ELB	5
4''	CAP	45

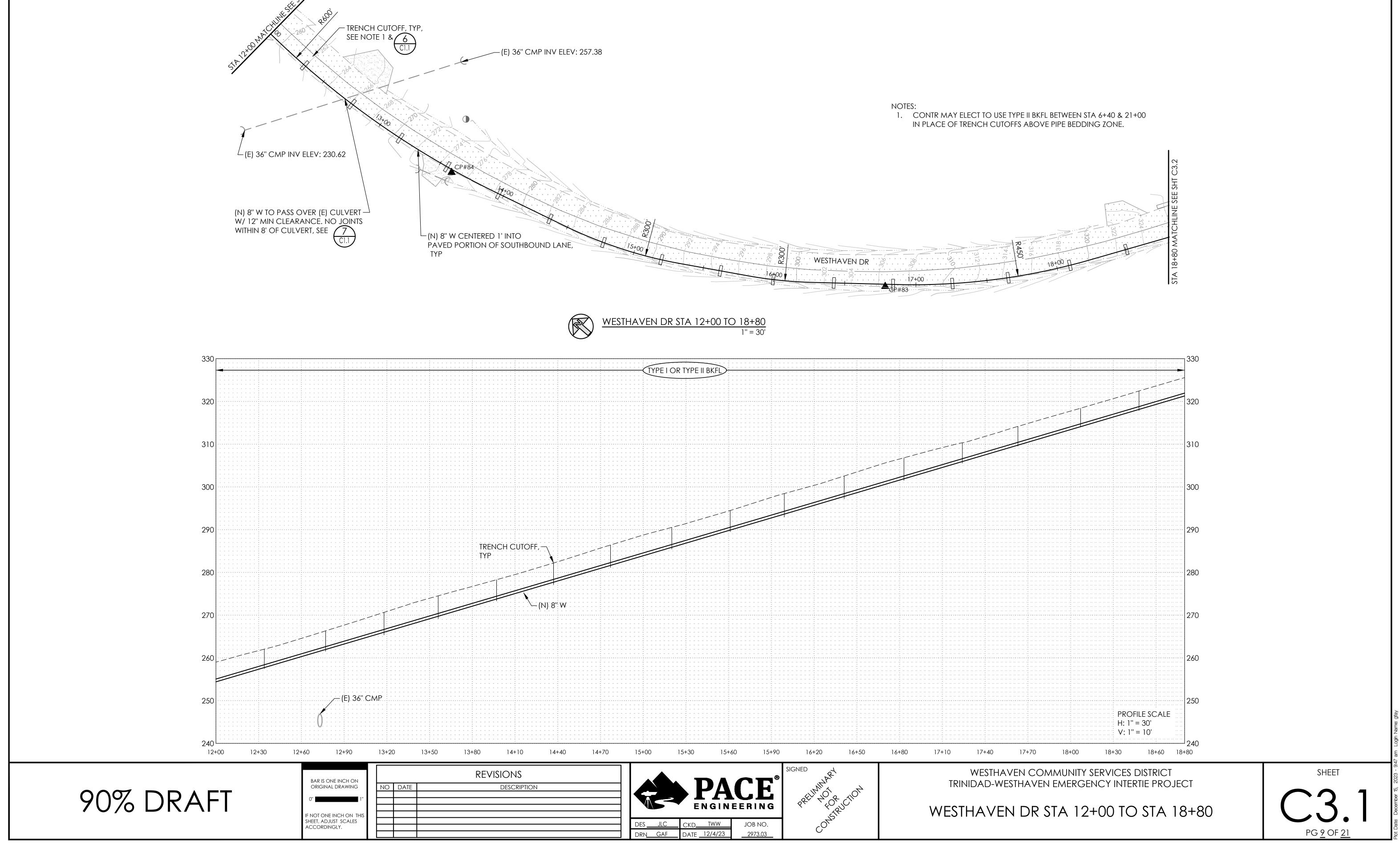
TABLE 3

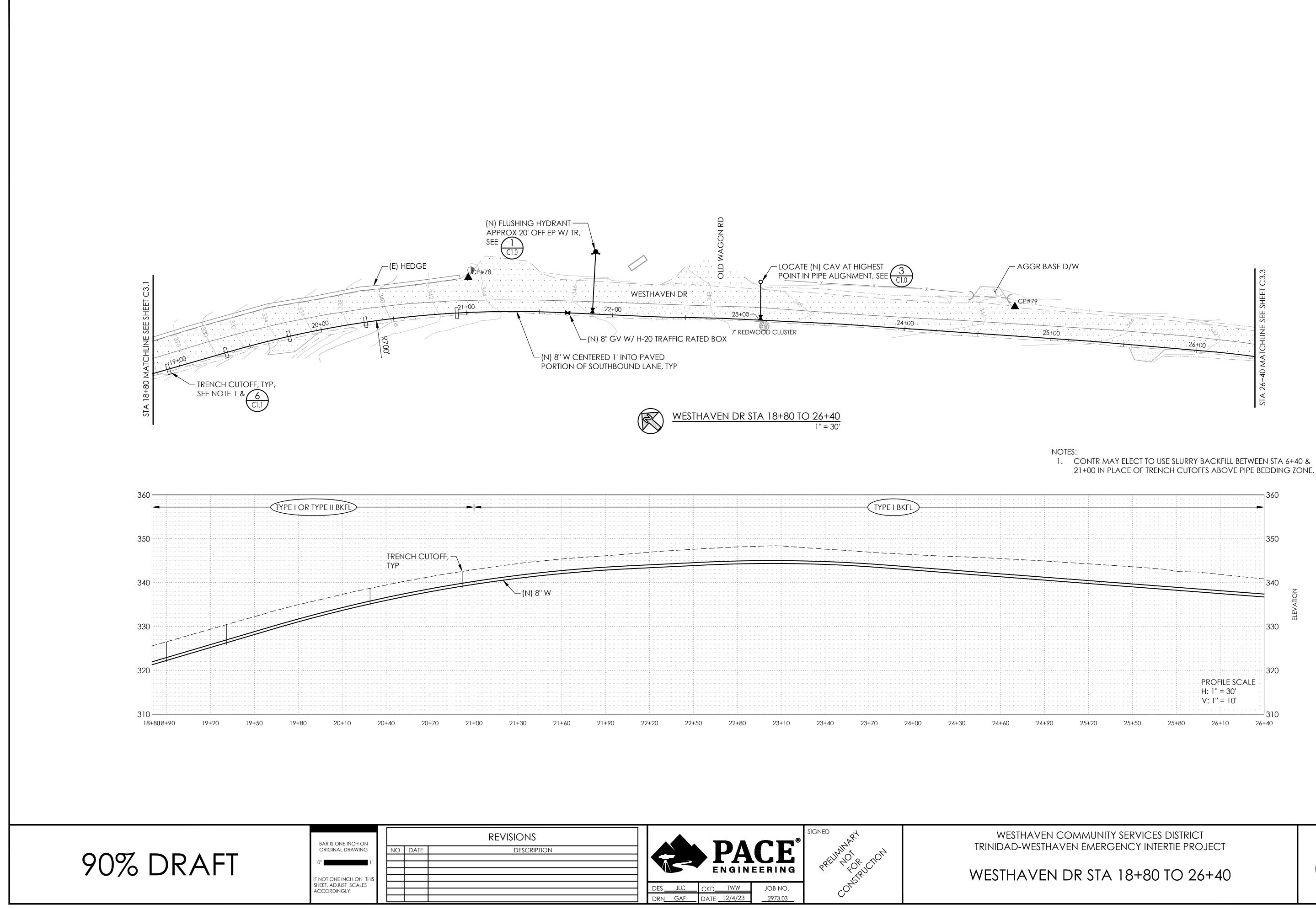


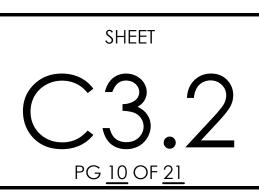
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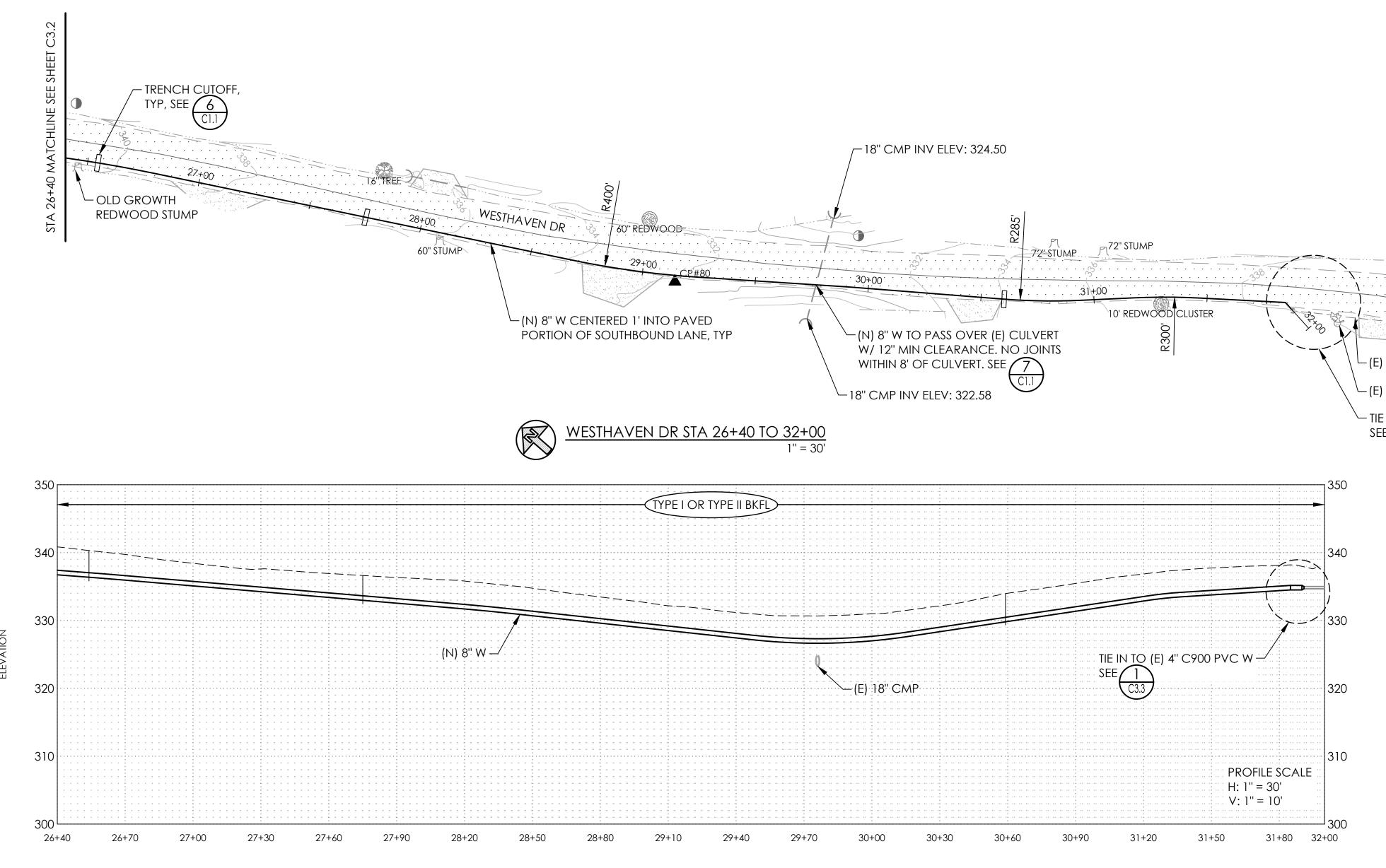








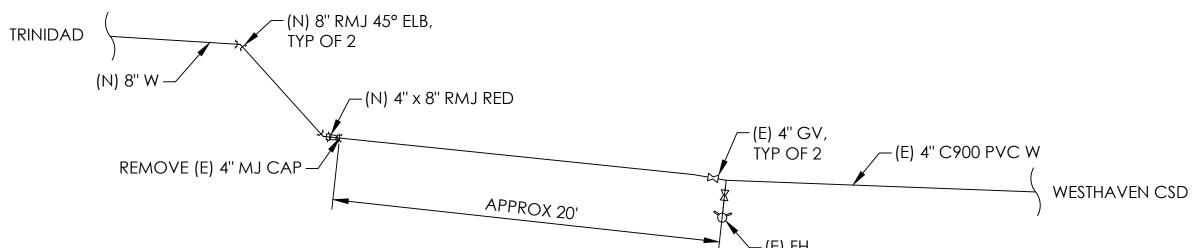


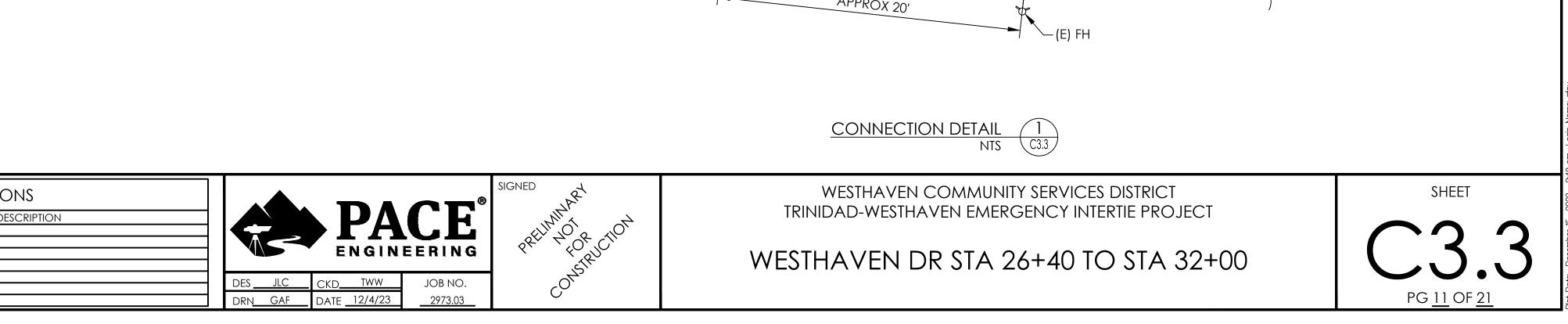


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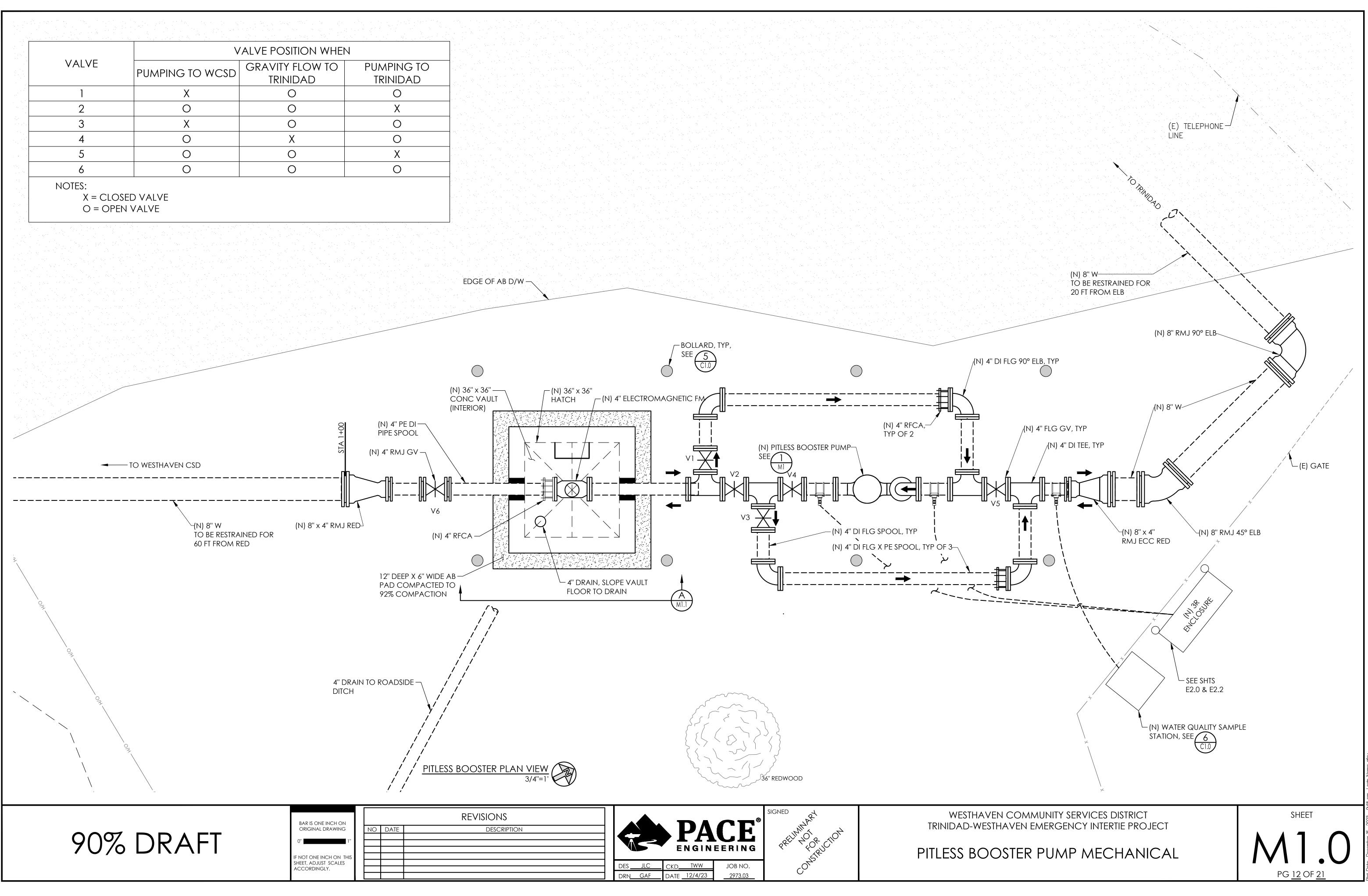




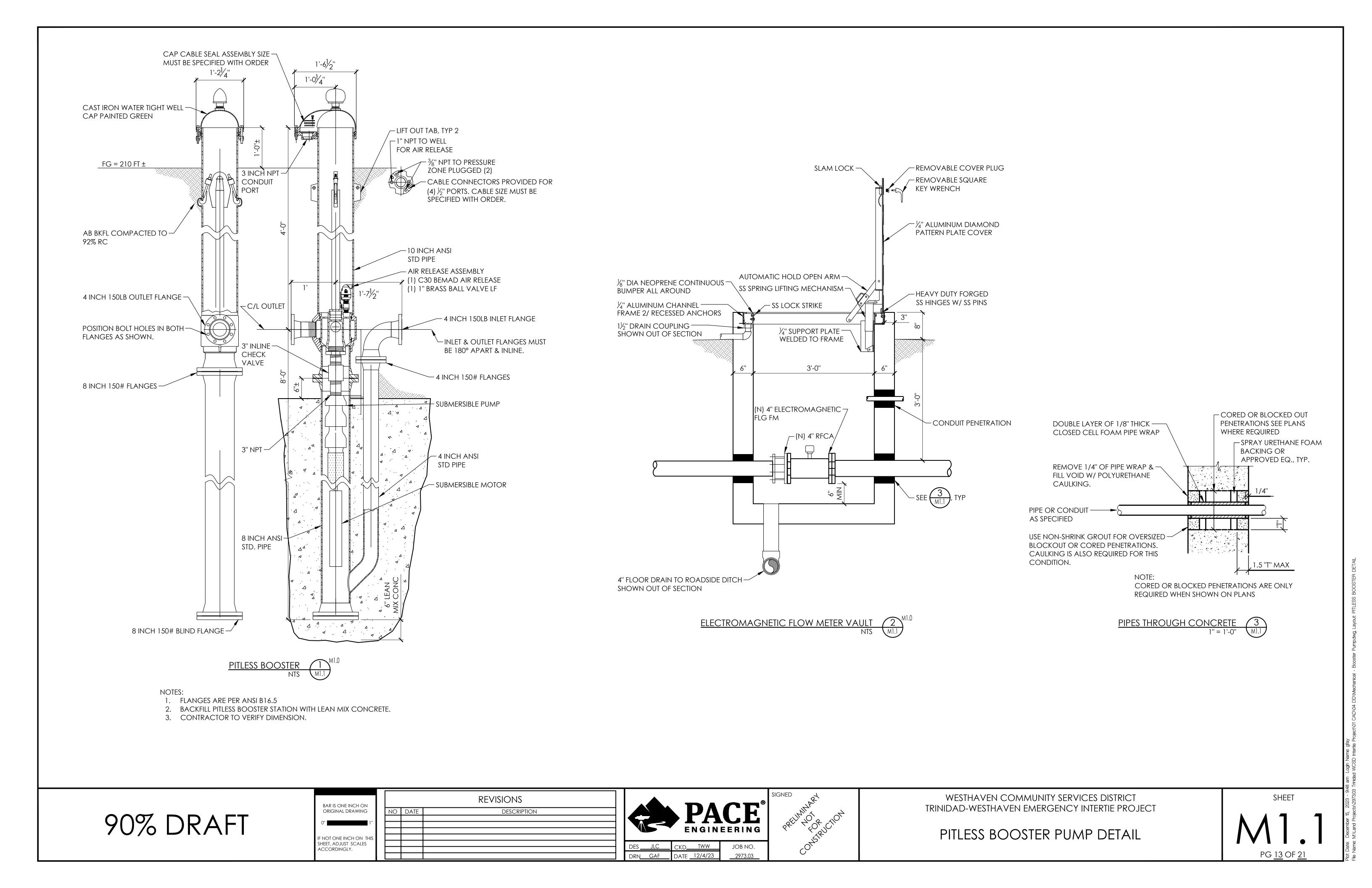
—(E) 4" C900 PVC W (E) FIRE HYDRANT - TIE IN TO (E) 4" C900 PVC W SEE 1

CP#81

C3.3

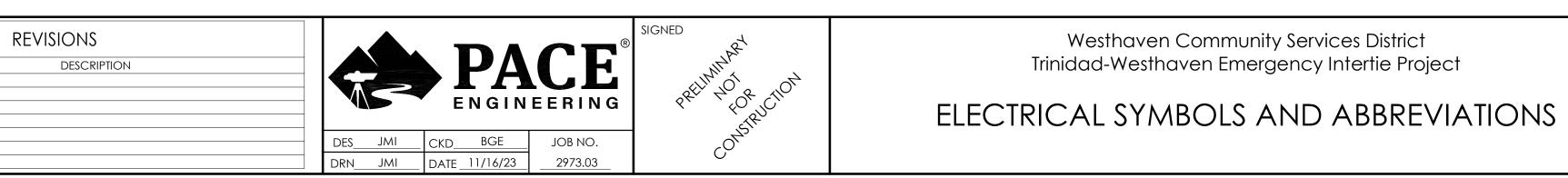


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STORY CONDUIT EXPOSED CONDUIT CONCEALED or BURIED CONDUIT CONCEALED or BURIED INDICATES FIRE RATED WALL CONDUIT UP CONDUIT DOWN	
LA-2 HOME RUN-DESTINATION SHOWN	
)
SQUE IICK MARKS W/BARS INDICATES NUMBER OF #10 CONDUCTORS WITH #10 GROUND IICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS OF #12 CONDUCTORS WITH #12 GROUND III TICK MARKS OF #12 CONDUCTORS WITH #12 GROUND IIII TICK MARKS OF #12 CONDUCTORS WITH #12 GROUND IIII TICK MARKS OF #12 CONDUCTORS WITH #12 GROUND	ROUN
L "L" INDICATES 0-10V DIMMING CABLE, "5E" INDICATES CAT5E CABLE, "CL" INDICATES AND COLOR TUNING CABLE.	0-10)
Image: Solution point (Contractor shall determine connection configuration) Image: Solution point (Contractor shall determine connection) Image: Solution point (Contractor shall	
LOW VOLTAGE DEVICE BOX	
DUPLEX RECEPTACLE	
Image: Second state Image: Second state Imag	
Image: Controlled split duplex receptacle Image: Controlled split duplex receptac	REC
SINGLE OR THREE PHASE RECEPTACLE, SEE PLAN SHEETS TYPE PER LOCATION	
FB FLOOR BOX	
HAND HOLE	
PULLBOX	
MAGNETIC STARTER W/ NEMA SIZE INDICATED	
L L FUSED DISCONNECT XXA/XXF 60AS/20F 60A DISCONNECT / 20A FUSE NON-FUSED DISCONNECT XX WP 60AS/20F 60A DISCONNECT / 20A FUSE NON-FUSED DISCONNECT XX WP 60AS/20F 60A DISCONNECT / 20A FUSE	
NON-FUSED DISCONNECT XX 60AS/20F 60A DISCONNECT NEMA 3R	
MAJOR ELECTRICAL COMPONENT OR DEVICE NAME OR IDENTIFYING SYMBOL AS SHOWN	
SURFACE MOUNT PANELBOARD	
FLUSH MOUNT PANELBOARD	
EXOTHERMIC WELD, TERMINATION OR SPLICE POINT	
GROUND ROD	
GROUNDING ELECTRODE	
CIRCUIT BREAKER	
CURRENT TRANSFORMER, NUMBER INDICATED	
Z (#) KEYNOTE	
(A : B) INDICATES INTERCONNECTION OF PATHWAYS AND/OR CONDUCTORS, E.G., 4"C-4# INDICATES CONDUIT AND CONDUCTORS ROUTED FROM THE MAIN SWITCHBOARD TO RECIFIC ATION NUMBER REFERENCE TAC. CONFORMANCE TO PROJECT SPECIFICA	
26 00 00 SPECIFICATION NUMBER REFERENCE TAG. CONFORMANCE TO PROJECT SPECIFICA TAGS ARE SHOWN ON THE DRAWINGS, IT IS THE ENGINEER'S INTENT TO RAISE ADDITI PRODUCTS OR EXECUTION METHODS THAT ARE CRITICAL, ATYPICAL OR NOT EXPRES DRAWINGS.	ONA
NOTE: THIS IS A SUPPLEMENTAL STANDARD ELECTRICAL LEGEND. SOME SYMBOLS MAY APPEAR ON THIS LEGE PLANS. SEE LIGHTING CONTROL SHEET FOR LIGHTING LEGEND.	ND A

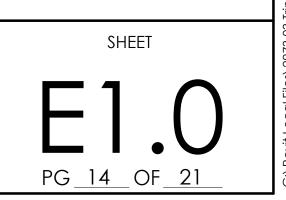


ID	
/ DIMMING	
	BE 18" E NOTEE
	Shall I Ierwise
	BOXES ESS OTH
EPTACLE	DEVICE BOXES SHALL BE 18" OD UNLESS OTHERWISE NOTED
	00
#3G (MSB : PNL A) NELBOARD A.	
S IS REQUIRED. WHI AWARENESS TO DETAILED ON THE	ERE
ND NOT ON THE	

ELECTRIC	CAL ABBREVIATIONS
A	
AC ACH	- ALTERNATING CURRENT - ABOVE COUNTER HEIGHT
AFCI	- ARC FAULT CIRCUIT INTERRUPT
AFF	- ABOVE FINISHED FLOOR OR GRADE
AIC	- AMPS INTERRUPTING CAPACITY
AL	- ALUMINUM
ATS	- AUTOMATIC TRANSFER SWITCH
	- BUILDING GROUND ELECTRODE SYSTEM
BRKR	
BOD C or COND	- BOTTOM OF DEVICE - CONDUIT
CAB	- CONDON - CABINET
CEC	- CALIFORNIA ELECTRIC CODE
CKT	- CIRCUIT
COD	- CENTER OF DEVICE
CR	- CONTROLLED RECEPTACLE
CT	- CURRENT TRANSFORMER
DC	
\	- EXISTING
EEB EEOR	- EQUIPMENT EMERGENCY BRANCH - ELECTRICAL ENGINEER OF RECORD
EGC	- ELECTRICAL ENGINEER OF RECORD - EQUIPMENT GROUNDING CONDUCTOR
EGC	- EQUIFMENT GROUNDING CONDUCTOR - ENCLOSURE
(F)	- FUTURE
G	- EQUIPMENT GROUNDING CONDUCTOR
GEC	- GROUNDING ELECTRODE CONDUCTOR
GFCI	- GROUND FAULT CIRCUIT INTERRUPT
GND	- GROUND
J	- JUNCTION BOX
LCP	- LIGHTING CONTROL PANEL
ltg mbj	- LIGHTING - MAIN BONDING JUMPER
MCB	- MAIN BONDING JUMPER - MAIN CIRCUIT BREAKER
MFR	- MANUFACTURER
MLO	- MAIN LUG ONLY
MOCP	- MAXIMUM OVERCURRENT PROTECTION
MSB	- MAIN SWITCH BOARD
MTS	- MANUAL TRANSFER SWITCH
NEC	- NATIONAL ELECTRIC CODE
NEMA	- NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
N (NI)	- NEUTRAL
(N) OFCI	- NEW - OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	- OWNER FURNISHED, OWNER INSTALLED
PB	- PULLBOX
PNL	- PANELBOARD
RCPT	- RECEPTACLE
SWBD	- SWITCHBOARD
SBJ	- SYSTEM BONDING JUMPER
SSBJ	- SUPPLY SIDE BONDING JUMPER
SP T	- STARTER PANEL
t TOD	- THERMOSTAT OR TELE CONDUIT - TOP OF DEVICE
TR	- TAMPER
TYP	- TYPICAL
V	- VOLTMETER, VOLT
W	- WATT
WW	- WIREWAY
WP	- WEATHERPROOF (NEMA 3R)
XFMR	- TRANSFORMER
NOTE: THIS IS A	SUPPLEMENTAL STANDARD LEGEND. SOME SYMBOLS OR
	S MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS

С	OMPLY WITH APPLICABLE CODES
#	CODE
1. 2. 3. 4. 5. 6. 7. 8. 9. 10	DTE: USE LATEST EDITION OF LISTED CODES. NFPA 30: FLAMMABLE AND COMBUSTIBLE LIQUIDS. NFPA 37: STATIONARY ENGINES. NFPA 54: FUEL GAS CODE. NFPA 58: LIQUEFIED PETROLEUM GAS. NFPA 72: FIRE ALARM AND SIGNALLING CODE. NFPA 110: EMERGENCY AND STANDBY POWER. NFPA 111: STANDBY POWER SYSTEMS. CALIFORNIA BUILDING CODE. CALIFORNIA ELECTRIC CODE. . CALIFORNIA ENERGY CODE. . CALIFORNIA FIRE CODE.

Westhaven Community Services District Trinidad-Westhaven Emergency Intertie Project



(E) BRANCH PANEL SUB PANEL										
LOCATIO			VOLTS			120/240	SINGLE			Al
MOUNTIN	NG TYPE SURFA	CE	WIRES			3				Βl
enclosu	JRE TYPE NEMA	CIRCUI	TS		30				Μ	
		(LABEL PAN	ELBOAF	RDS ACCO	ORDING TO	NAMING C	ONVENTION	<u>s listed in e</u>		<u>AL</u>
CKT	HOME RUN	LOAD NAME	TRIP	INT TYPE	А	В	A	В	INT TYPE	-
1	(E)	(E) PLANT RCPTS	20 A		500 VA		500 VA			
3	(E)	(E) OFFICE LIGHTS	20 A			500 VA		500 VA		
5	(E)	(E) OFFICE RCPTS	20 A		500 VA		0 V A			
7	(E)	(E) OFFICE RCPTS	20 A			500 VA		0 VA		
9	(E)	(E) PLC CONTROLS	20 A		500 VA		0 VA			
11	(5)		00.4			250 VA		0 VA		
13	(E)	(E) BASEBOARD HEATER	20 A		250 VA		0 VA			
15	(E)	(E) RECYCLE FLOWMETER & CONTROL	20 A			500 VA		0 VA		
17		SPARE	20 A		0 V A		0 V A			
19		SPACE						3360 VA		
21		SPACE					3360 VA			'
23		SPACE								
25		SPACE								
27		SPACE								
29		SPACE								
		•			PHA	SE A	PHA	SE B	Notes:	Ē
		Ţ	OTAL LC	DAD (VA)	561	0 VA	561	0 VA		
		TOTA	AL LOAD	d (AMPS)	4	7	4	7		

		bar is one inch on				RE	visions
		ORIGINAL DRAWING	N	0	DATE		DESCRIPTION
90% DRAFT	90% DRAFI	0"					
		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES					
		ACCORDINGLY					

	CE E E R I N G	PRELIMINART PRELIMINART	Westnaven Community Trinidad-Westhaven Emerge ONE-LINE DIA
DES JMi CKD BGe DRN JMi DATE 11/16/23	JOB NO. 2973.03	CONSTR	

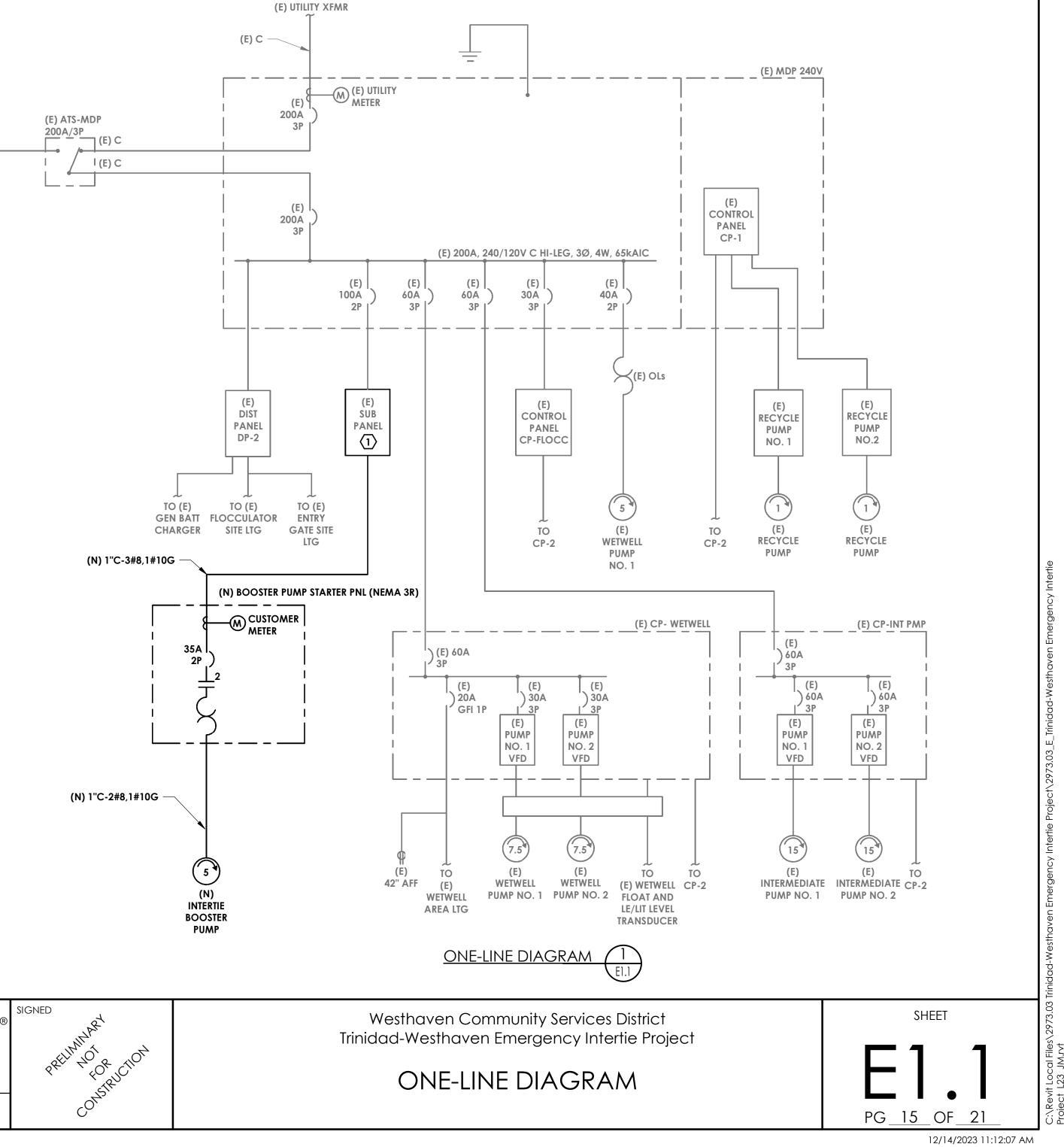
CRA),000	
US RAI		00 A	
	REAKER M IFICATIONS)	LO	
TRIP		HOME RUN	CKT
20 A	(E) DIALER	(E)	2
20 A	(E) WET WELL LIGHTS	(E)	4
20 A	SPARE		6
20 A	SPARE		8
20 A	SPARE		10
20 A	SPARE		12
20 A	SPARE		14
20 A	SPARE		16
20 A	SPARE		18
35 A	(N) BOOSTER PUMP STARTER PNL	(N) 1"C-3#8, 1#10G	20
			22
	SPACE		24
	SPACE		26
	SPACE		28
	SPACE		30

(E)GENERATOR

50kW, 240V 3Ø

(E) C

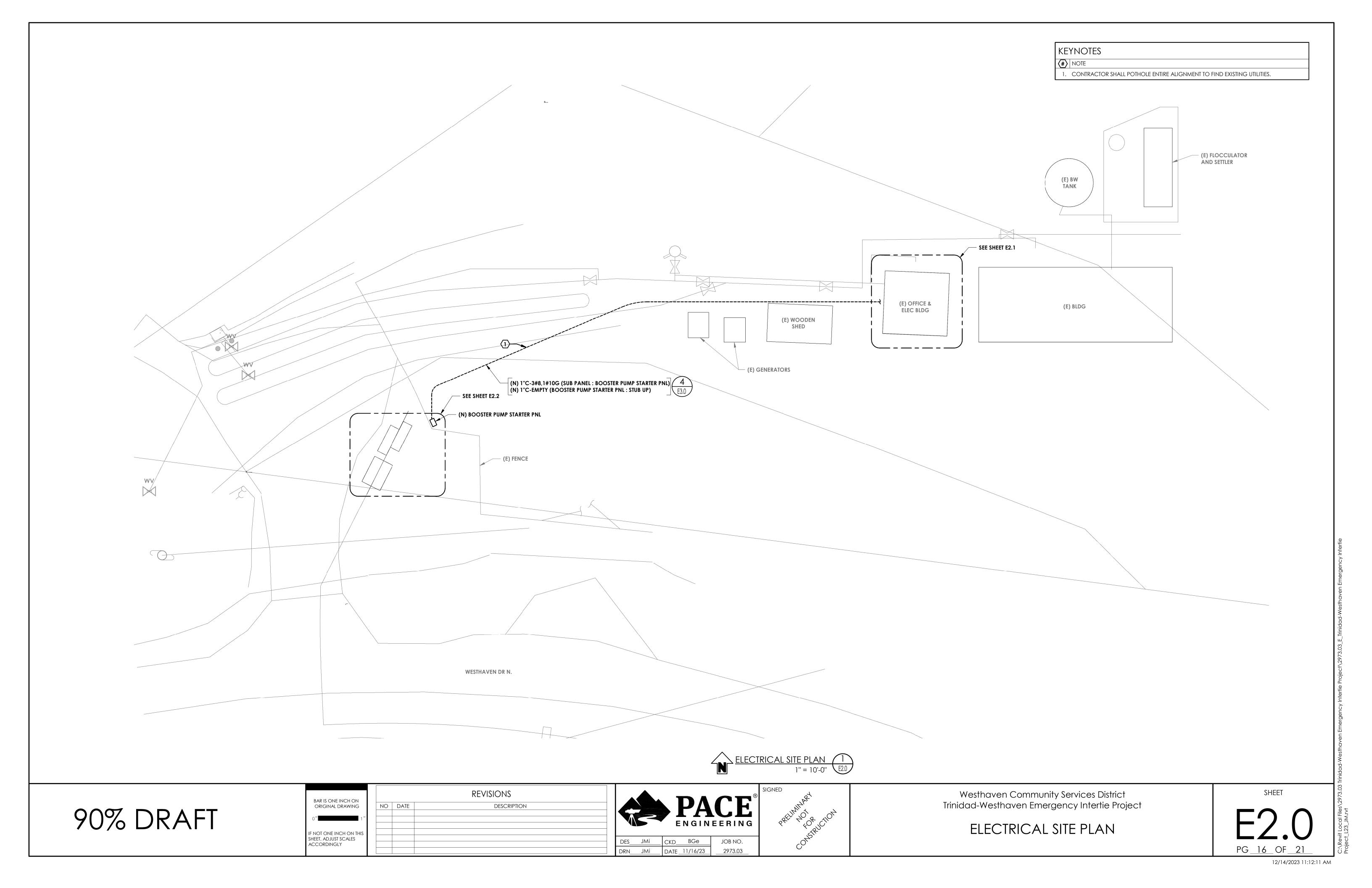
(G)-





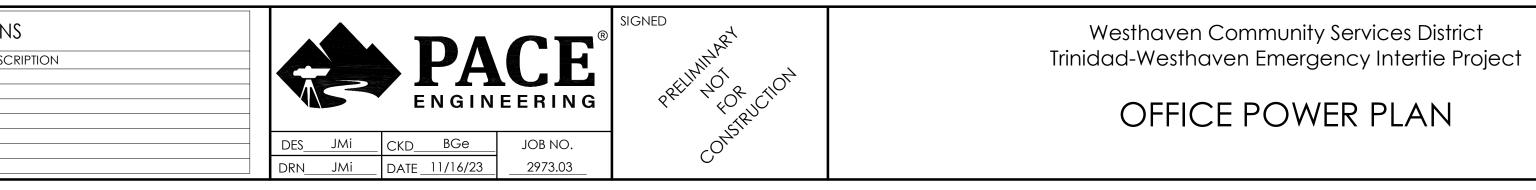
(#) NOTE

- 1. MODIFY EXISTING PANEL AS INDICATED ON SCHEDULE.
- 2. PROVIDE AND INSTALL NEW CIRCUIT BREAKER IN EXISTING PANEL SPACES. NEW BREAKER SHALL BE OF THE SAME TYPE AND RATING AS THE EXISTING BREAKERS. RELABEL PANEL SCHEDULE AS SHOWN.

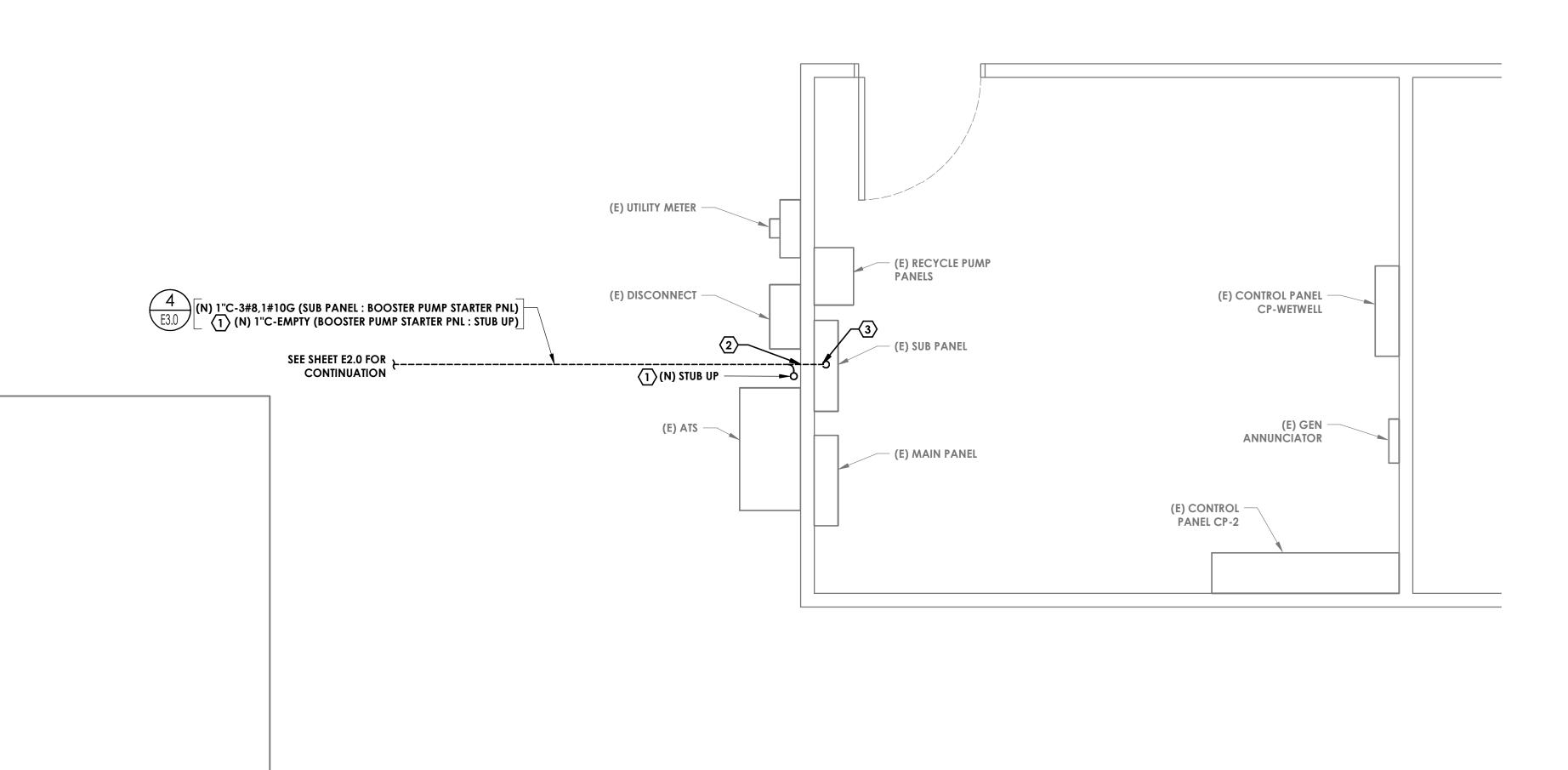


				REVISIONS
90% DRAFT	BAR IS ONE INCH ON ORIGINAL DRAWING 0" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	NO	DATE	DESCRIF

(E) SHED







KEYNOTES

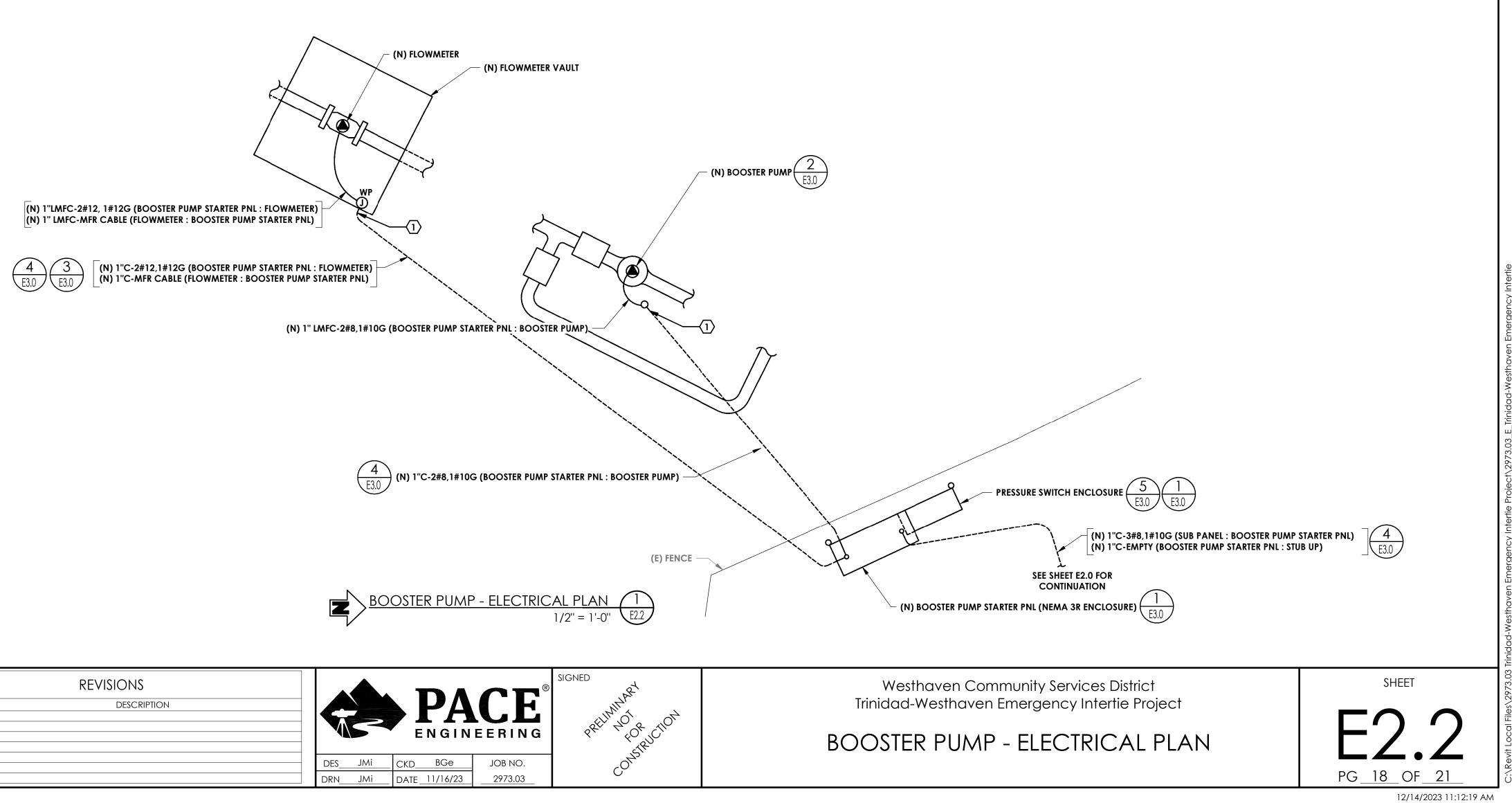
(#) NOTE

- STUB CONDUIT 1' 0" ABOVE GRADE ON THE OUTSIDE OF THE BUILDING IN THE LOCATION SHOWN. PROVIDE AND INSTALL GALVANIZED UNISTRUT AND CONDUIT CLAMP AT A MINIMUM OF ONE LOCATION TO SUPPORT CONDUIT. AFTER INSTALLATION, CAP CONDUIT FOR FUTURE USE.
- PROVIDE AND INSTALL CONDUIT/CONDUCTORS FROM SUB PANEL TO THE LOCATION SHOWN ON THE EXTERIOR OF THE BUILDING. PENETRATE WALL AT MAXIMUM 2' AFF. USING AN LB CONDULET. SUPPORT AT A MINIMUM OF TWO LOCATIONS UTILIZING GALVANIZED UNISTRUT AND CONDUIT CLAMPS. PAINT SURROUNDING WALL TO MATCH EXISTING, AND SEAL PENETRATION WITH APPROVED SEALANT OR CAULK.
 PROVIDE AND INSTALL APPROVED CONDUIT SEALING BUSHING AT LOCATION SHOWN.

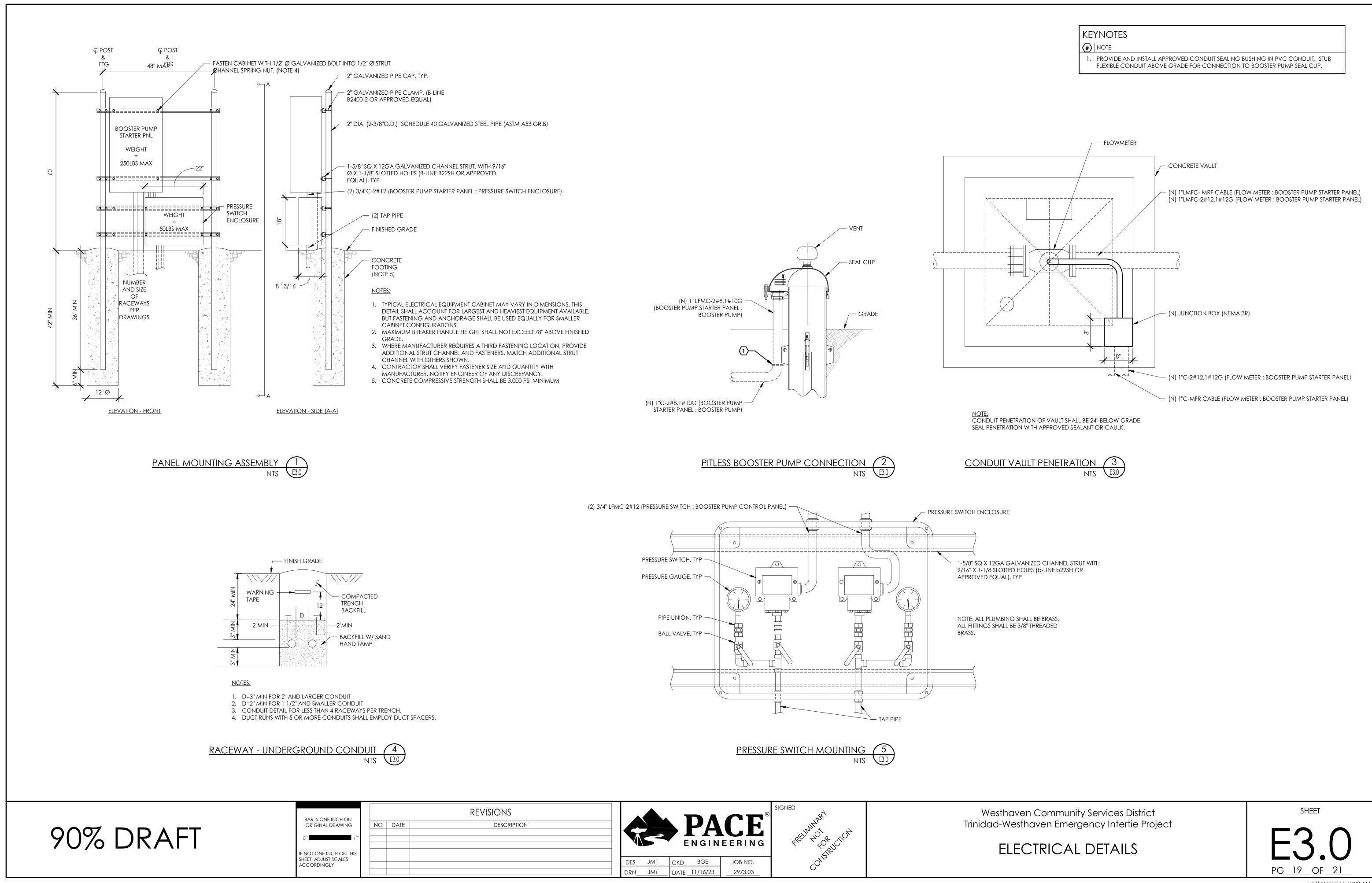
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				REVISION
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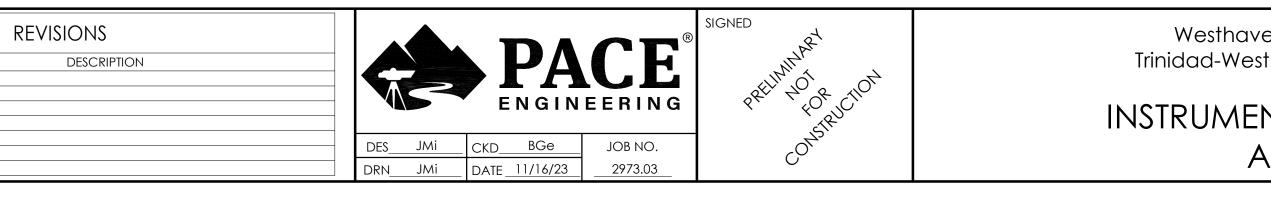
(#) NOTE 1. PROVIDE AND INSTALL APPROVED CONDUIT SEALING BUSHING AT LOCATION SHOWN.



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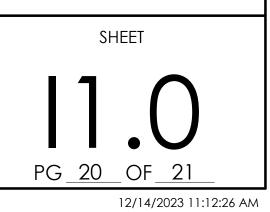
	bar is one inch on			REV	ISION
	ORIGINAL DRAWING	NO	DATE		DESC
70% DRAFI	IF NOT ONE INCH ON THIS				
	SHEET, ADJUST SCALES ACCORDINGLY				

	CONDUIT EXPOSED CONDUIT CONCEALED OR BURIED	— A		- AMMETER, AMPERE
	CONDUIT CONCEALED OK BUKIED			- ALTERNATING CURRENT
		AI		- ANALYZER INDICATING CONTROLLER - AIR OR AIR COMPRESSOR
	MOTOR, HORSEPOWER INDICATED	Al [®]		- ANALYZER INDICATING TRANSMITTER - BLOWER
	CONVENIENCE RECEPTACLE. DUPLEX UNLESS SPECIFIED OTHERWISE	BF	CV/S	- SOLENOID BUTTERFLY CONTROL VALVE
I	NON-FUSED DISCONNECT, SIZE INDICATED 3-POLE UNLESS INDICATED OTHERWISE	BF	V/M V/P	- MOTORIZED BUTTERFLY CONTROL VALVE - PNEUMATIC BUTTERFLY CONTROL VALVE
- -	FUSED DISCONNECT, SIZE INDICATED (60/40, 60=SWITCH RATING: 40=FUSE RATING) 3-POLE UNLESS INDICATED OTHERWISE	BV BV BV	/M	- BALL VALVE - MOTORIZED BALL VALVE - SOLENOID BALL VALVE
	STARTER MAGNETIC, NEMA SIZE INDICATED	BV		- BACKWASH
	COMBINATION MAGNETIC STARTER, NEMA SIZE INDICATED	C CE		- CONTACTOR/CONDUIT - CIRCUIT BREAKER
_	CONTACT-NORMALLY OPEN W/ NEMA SIZE INDICATED AS APPLICABLE	CE Ck	T	- CABLE - CIRCUIT
_	CONTACT-NORMALLY CLOSED W/ NEMA SIZE INDICATED AS APPLICABLE		DMP DN	- COMPRESSOR - CONVEYOR
_	TIME DELAY RELAY CONTACT, TIMED TO CLOSE		OND ,	- CONDUIT - CONTROL PANEL
_	TIME DELAY RELAY CONTACT, TIMED TO OPEN		Υ	- CONTROL PANEL TRANSFORMER - CONTROL RELAY
	REMOTE DEVICE		2	- DIRECT CURRENT - DIGITAL INPUT
	RELAY COIL: CR=CONTROL RELAY TDR=TIME DELAY RELAY)	- DISSOLVED OXYGEN OR DIGITAL OUTPUT
_	OVERLOAD RELAY, E=ELECTRONIC	DF		- DIFFERENTIAL PRESSURE TRANSMITTER - DOOR SWITCH
	MAGNETIC STARTER W/ NEMA SIZE INDICATED	EF		- EXISTING - EXHAUST FAN
	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, FRAME SIZE SHOWN, 3-POLE UNLESS INDICATED OTHERWISE	EN ET/		- ENCLOSURE - ELAPSED TIME METER
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3-POLE UNLESS INDICATED OTHERWISE		or FAN	- FAN - FLOW INDICATING TRANSMITTER
	SWITCH-CURRENT RATING INDICATED, 3-POLE UNLESS INDICATED OTHERWISE	— FS		- FLOW SWITCH
-	LIGHTNING ARRESTOR	FU G		- FUSE - GROUND
		GF	-]	- GROUND FAULT CIRCUIT INTERRUPT - HEATER OR HEAT TRACE
_	FUSE	HS		- HAND SWITCH - LINE POWER
	GROUNDED SHIELD CONNECTION	LA LS LIT		- LIGHTNING ARRESTOR - LEVEL SWITCH OR LIMIT SWITCH - LEVEL INDICATING TRANSMITTER
1	GROUND	M	CC	- MOTOR OR FLOW METER ELEMENT - MOTOR CONTROL CENTER
/240V	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE	N NA		- MANUFACTURER - NEUTRAL - NON-AUTOMATIC
_	PUSH BUTTON SWITCH, NORMALLY OPEN	NE NE	C MA	- NATIONAL ELECTRIC CODE - NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
_	PUSH BUTTON SWITCH, NORMALLY CLOSED		Т	- OPERATOR INTERFACE TERMINAL - OVERLOAD RELAY
	PUSH-TO-TEST INDICATING LIGHT / LETTER INDICATES COLOR: A-AMBER, B-BLUE, C-CLEAR, G-GREEN, R-RED, W-WHITE	P		- PUMP - PULL BOX
A t	SELECTOR SWITCH-MAINTAINED CONTACT: X=CLOSED CONTACT POSITION	PIT PL' PN	C L	 PRESSURE INDICATING TRANSMITTER PROGRAMMABLE LOGIC CONTROLLER PANELBOARD
*	MOTOR SPACE HEATER	PS PV	/M	- PRESSURE SWITCH - MOTORIZED PLUG VALVE
-	FLOW SWITCH OPENS ON INCREASE IN FLOW	Ql RE	CEPT	- INDICATING LIGHT - RECEPTACLE
-	FLOW SWITCH CLOSES ON INCREASE IN FLOW	RT RV		- REMOTE TELEMETRY UNIT - RECYCLE WATER
	FLOAT SWITCH OPENS ON RISING LEVEL	SP SV		- SURGE PROTECTION DEVICE - SOLENOID VALVE
	FLOAT SWITCH CLOSES ON RISING LEVEL	SW SW		- SWITCH - TELE CONDUIT OR TURBIDIMETER
	PRESSURE OR VACUUM SWITCH OPENS ON RISING PRESSURE		R	- TIME DELAY RELAY
	PRESSURE OR VACUUM SWITCH CLOSES ON RISING PRESSURE	TS П	_	- THERMOSTAT OR TEMPERATURE SWITCH - TEMPERATURE INDICATING TRANSMITTER
	TEMPERATURE SWITCH OPENS ON RISING TEMPERATURE	TY UH		- TYPICAL - UNIT HEATER
-	TEMPERATURE SWITCH CLOSES ON RISING TEMPERATURE	UI ⁻ UF		 - ULTRAVIOLET TRANSMITTANCE TRANSMITTER - UNINTERRUPTIBLE POWER SUPPLY
		U\ U\	1	- ULTRAVIOLET - ULTRAVIOLET TRANSMITTANCE
	RTU/PLC DISCRETE OUTPUT			- VOLTMETER, VOLT - VARIABLE FREQUENCY DRIVE
	RTU/PLC DISCRETE INPUT	VI W		- VACUUM INDICATING TRANSMITTER - WATT
	ELECTRICALLY OPERATED VALVE S-SOLENOID M-MOTORIZED			- WEIGHT INDICATING TRANSMITTER - WEATHERPROOF (NEMA 4)
	ELECTRICALLY OPERATED 3-WAY VALVE S-SOLENOID M-MOTORIZED		MR	- WEATHERFROOF (NEMA 4) - TRANSFORMER - ZERO SPEED SWITCH
	MOTOR		TE: THIS IS A	- ZERO SPEED SWITCH SUPPLEMENTAL STANDARD LEGEND. SOME SYMBOLS OR
	FLOW TRANSMITTER	-		IS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS
	LEVEL TRANSMITTER: RANGE INDICATED			

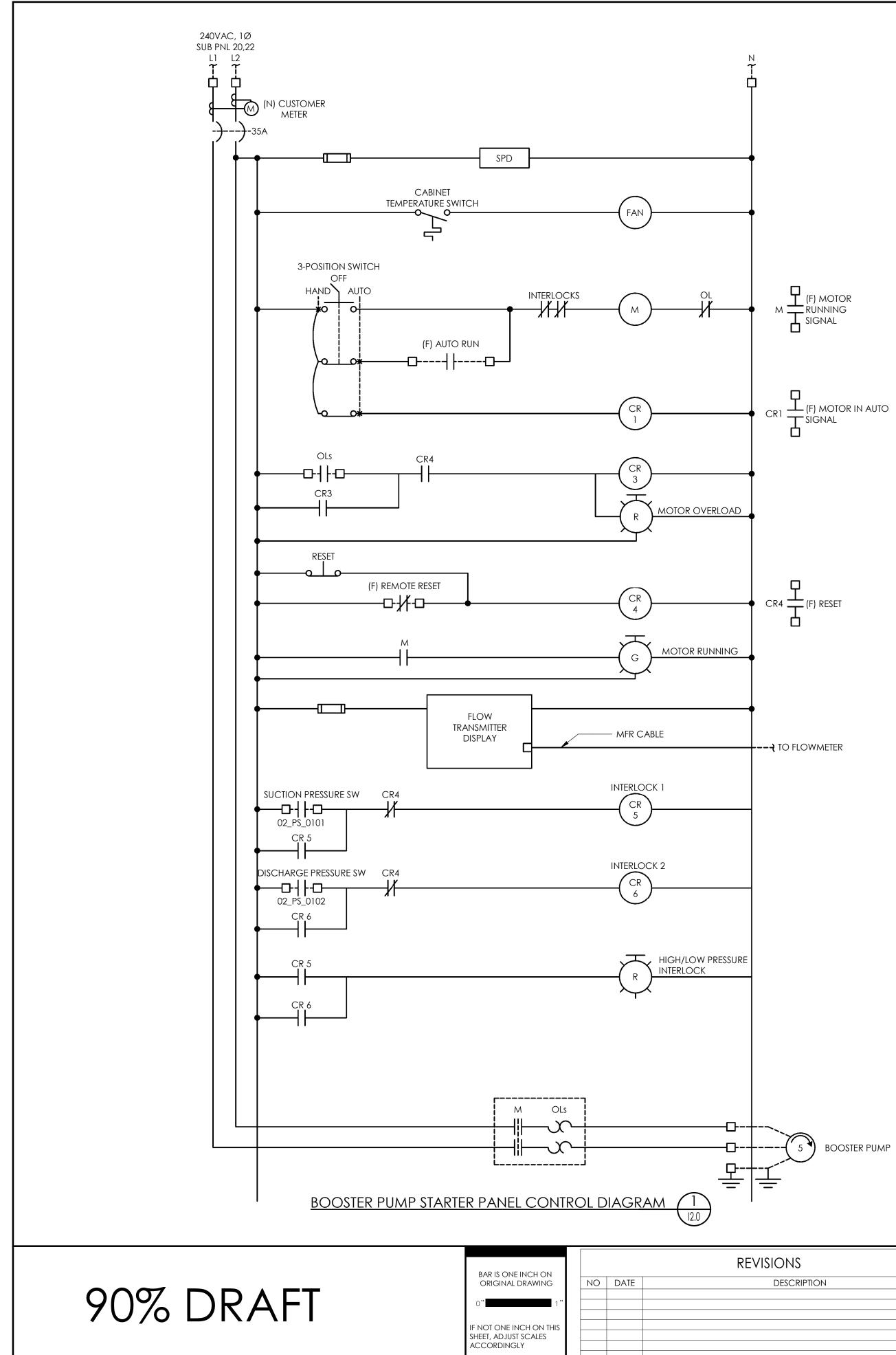


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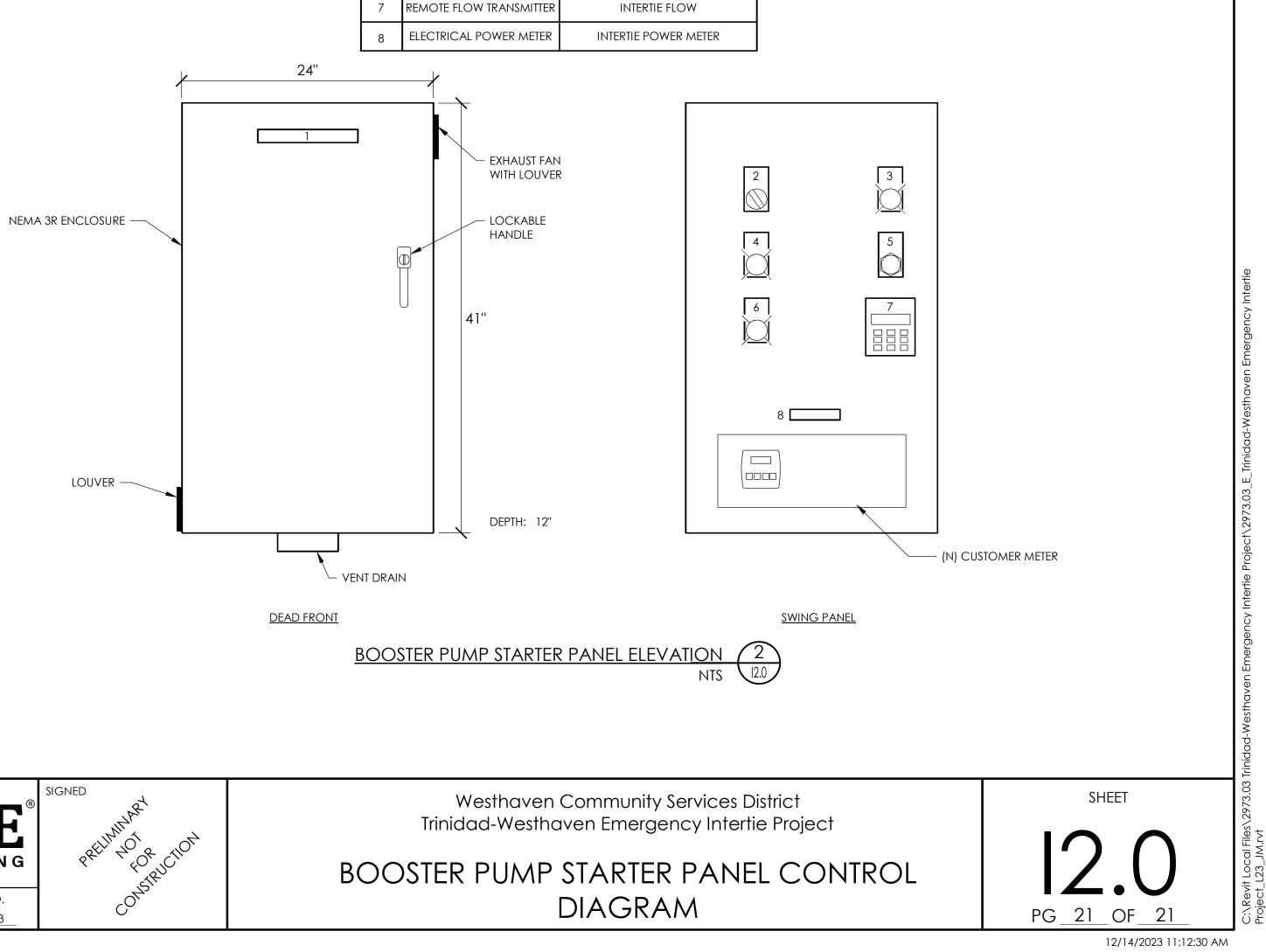


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PACE ENGINEERING DES___JMi__CKD___BGe JOB NO. DATE 11/16/23 DRN JMi 2973.03

BOOSTER PUMP



NAMEPLATE SCHEDULE						
DEVICE	NAMEPLATE/INSCRIPTION					
IAMEPLATE	BOOSTER PUMP STARTER PNL					
SITION SWITCH	MOTOR CONTROL HAND - OFF - (F) AUTO					
CATOR LIGHT	MOTOR RUNNING					
CATOR LIGHT	MOTOR OVERLOAD					
JSH BUTTON	ALARM RESET					
CATOR LIGHT	HIGH/LOW PRESSURE INTERLOCK					
LOW TRANSMITTER	INTERTIE FLOW					
CAL POWER METER	INTERTIE POWER METER					

DEVICE

NAMEPLATE

3 POSITION SWITCH

INDICATOR LIGHT

INDICATOR LIGHT

PUSH BUTTON

INDICATOR LIGHT

ITEM