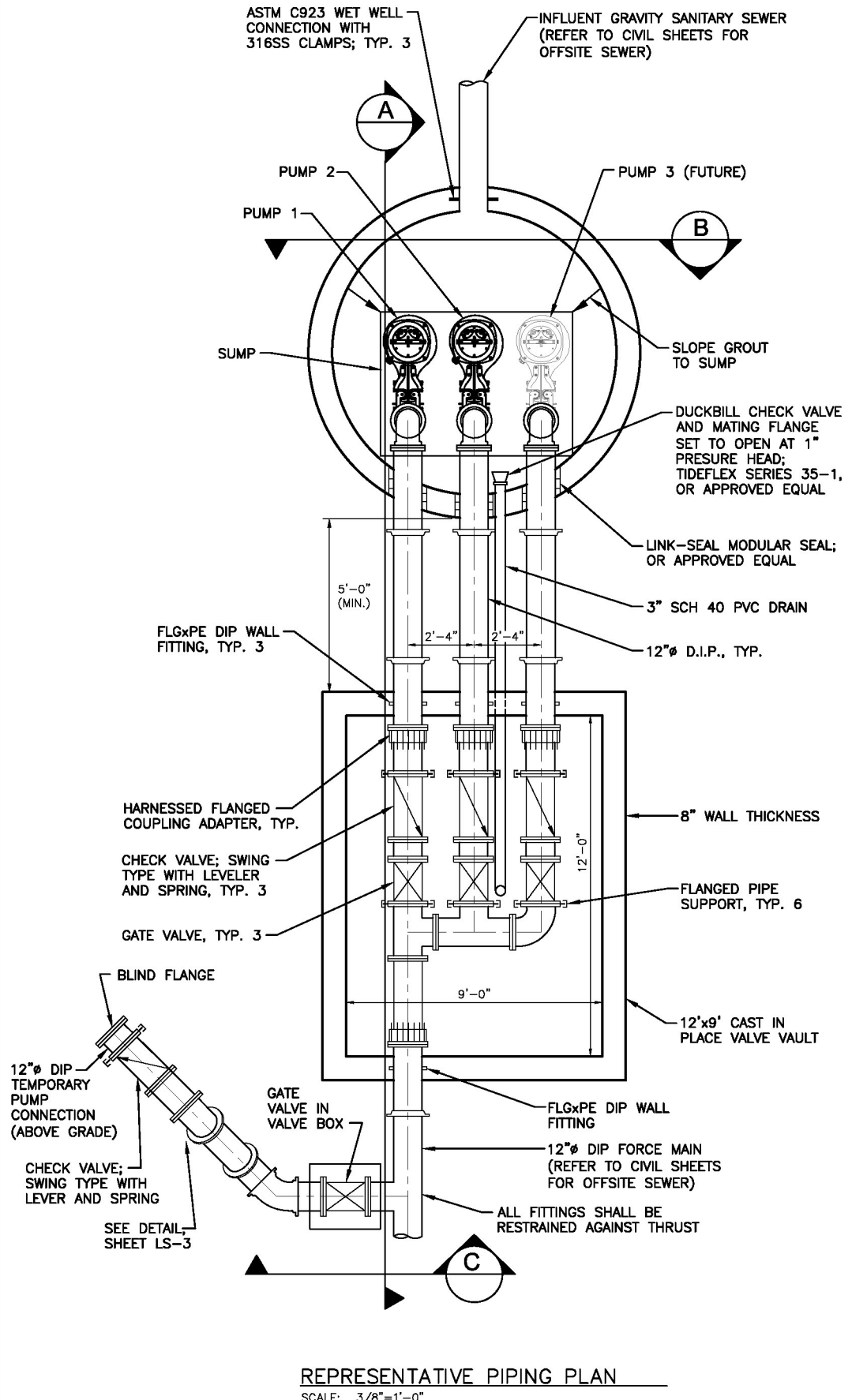


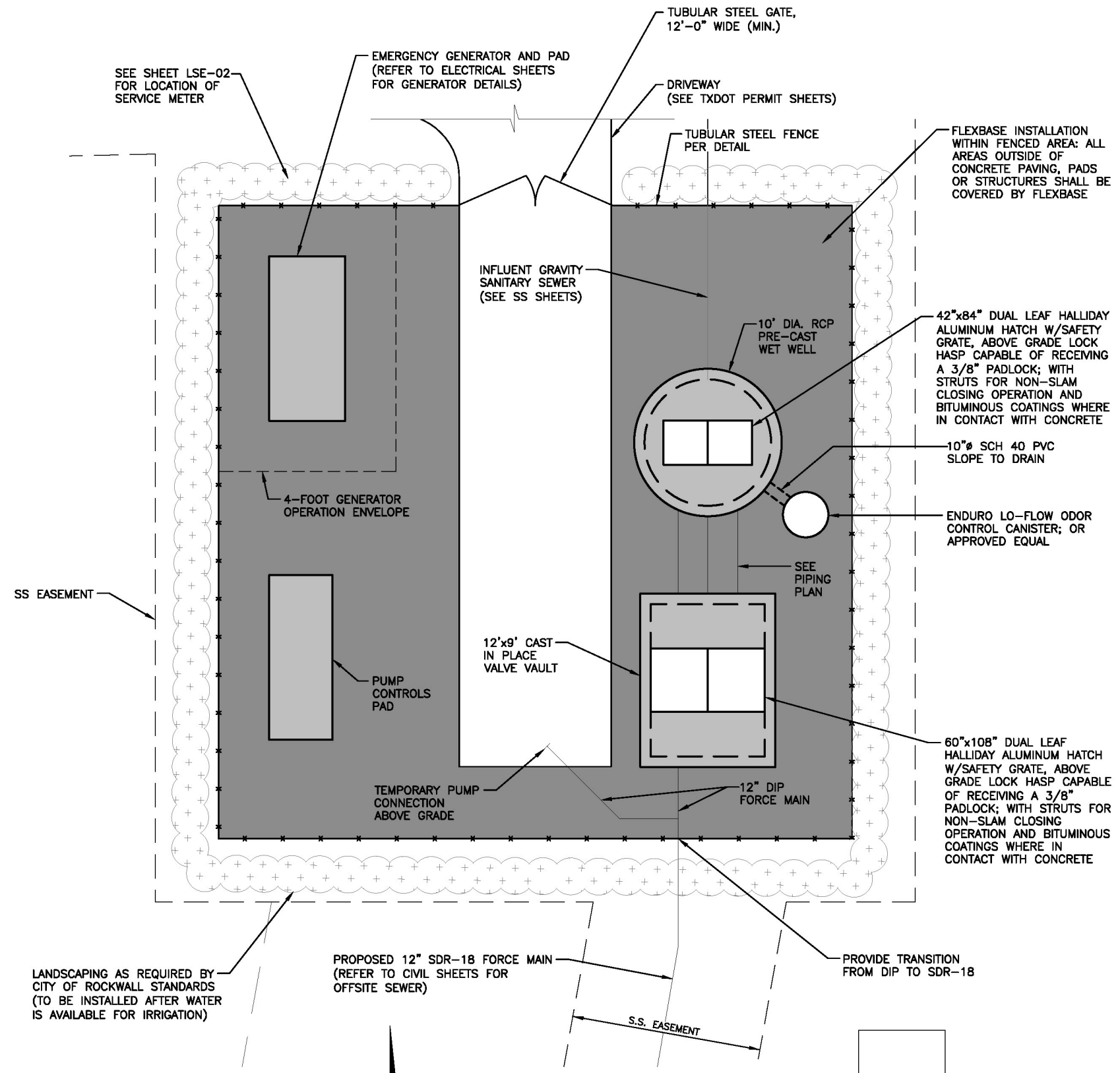
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REPRESENTATIVE PIPING PLAN
SCALE: 3/8"=1'-0"

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

ONE INCH



SITE PLAN
SCALE: 1"=5'

RECORD DRAWINGS

TO THE BEST OF OUR KNOWLEDGE TEAGUE NALL & PERKINS, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

DATE: 1/08/2018

Mark A. Perkins
 60329
 REGISTERED PROFESSIONAL ENGINEER
 2/1/2018

PERKINS ENGINEERING CONSULTANTS, INC.
 TBPE REGISTRATION NO. F-8699

NO.	DATE	DESCRIPTION

LIFT STATION SITE PLAN

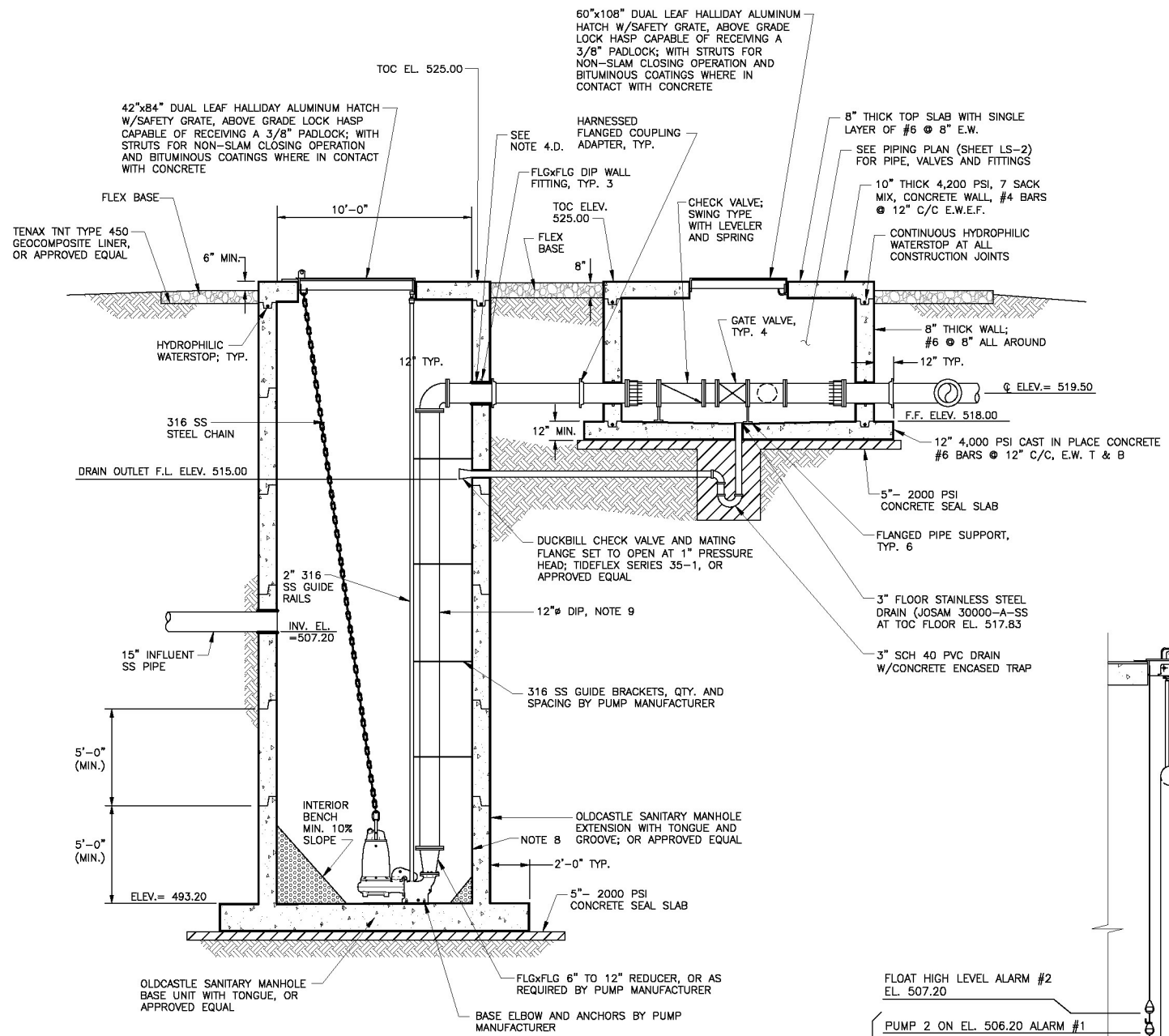
CITY OF ROCKWALL, TEXAS
SOMERSET PARK

PHASE I
LIFT STATION

Date:	2/1/2017	LIG	SRG	MAP	TWP 14-002	of
Designed:						
Drawn:						
Reviewed:						
PEC Proj. No.:						
SED						

SHEET NO. LS-2

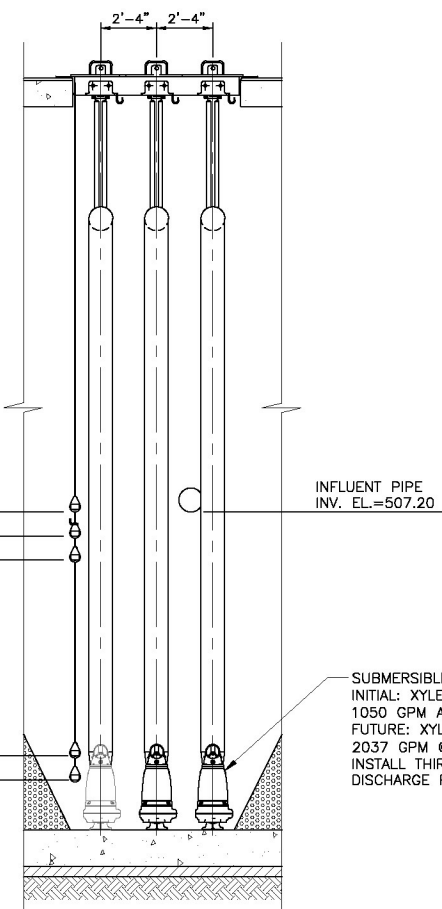
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REPRESENTATIVE SECTION A
SCALE: 1/4"=1'-0"

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

ONE INCH

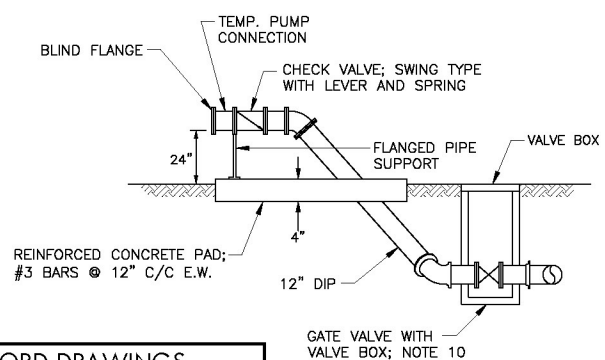


NOTE:
1. FLOATS SHALL BE FIELD ADJUSTED AS NECESSARY.

PARTIAL SECTION B
SCALE: 1/4"=1'-0"

- REQUIREMENTS FOR COATING OF INTERIOR SURFACES OF WETWELL IF CON SHIELD ADDITIVE IS NOT USED:**
- SURFACE PREPARATION:** AS REQUIRED BY THE MANUFACTURER FOR CAST-IN-PLACE CONCRETE SURFACES.
 - PRODUCT AND MANUFACTURER:** PROVIDE ONE OF THE FOLLOWING:
 - CHESTERTON**
1) PRIMER/FINISH: PF&L 2300 - TROWEL-APPLIED @ 1/16 TO 1/8"
 - RAVEN LINING SYSTEMS INC.**
1) PRIMER: AQUATAPOXY A-10 - 4 TO 8 MILS DFT
2) FINISH: RAVEN 405 - 125 TO 200 MILS DFT; 2 COATS REQUIRED TO ACHIEVE TOTAL DFT OF 125 MILS
 - SPECTRASHIELD**
1) PRIMER: MOISTURE-DISPLACEMENT BARRIER PRIMER, MODIFIED POLYMER MOISTURE BARRIER, POLYURETHANE/POLYMERIC BLEND FOAM "SURFACER"
2) FINISH: MODIFIED POLYMER FINAL CORROSION BARRIER
 - SAUREISEN**
1) PRIMER: SAUREISEN 210S - TO 80 MILS DFT
2) FINISH: SAUREISEN 210 GLAZE - @ 20 MILS DFT
 - TNEMEC**
1) PRIMER: TNEMEC 218 MORTAR CLAD @ 1/16"
2) FINISH: SERIES 436 PERMA-GLAZE FR @ 60-75 MILS DFT (TOTAL APPROX. 125 MILS DFT)
 - ENDURA-FLEX**
1) PRIMER: ENDURA-FLEX EF1988; EXPANDED FILM @ 200 MILS; SOLID FILM @ 50 MILS

- GENERAL NOTES:**
- ALL ITEMS IN VALVE BOX SHALL BE BLOCKED AND SUPPORTED AS NECESSARY.
 - PUMP STATION SHALL BE MANUFACTURED FROM TYPE V PORTLAND CEMENT. ALL OTHER CONCRETE SHALL BE MANUFACTURED FROM TYPE I/II PORTLAND CEMENT.
 - STEEL REINFORCEMENT SHALL BE ASTM A615 GRADE 60 DEFORMED EXCEPT AT MANHOLE SECTIONS.
 - MANHOLE SECTIONS:
 - MANHOLE MANUFACTURER SHALL DESIGN WALL THICKNESS AND REINFORCEMENT FOR THE SITE CONDITIONS.
 - RISER SECTION SHALL BE PER ASTM C478 (TYPE V PORTLAND CEMENT).
 - GASKETS AT JOINTS SHALL BE ASTM C443 O-RING AND SHALL BE SEALED WITH NON-SHRINK GROUT ON THE INTERIOR AND EXTERIOR.
 - CONNECTIONS TO GRAVITY SEWER LINE(S) SHALL CONFORM TO ASTM C923 WITH 316SS CLAMPS.
 - INTERIOR BENCH (FILLET SLOPE) SHALL BE CONSTRUCTED WITH 2000 PSI CONCRETE USING TYPE V PORTLAND CEMENT.
 - FILL COMPACTION:
 - CLAY SOILS WITH A PLASTICITY INDEX BELOW 25 SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) AND WITHIN THE RANGE OF 1% BELOW TO 3% ABOVE THE MATERIAL'S OPTIMUM MOISTURE CONTENT.
 - CLAY SOILS WITH A PLASTICITY INDEX EQUAL TO OR GREATER THAN 25 SHOULD BE COMPACTED TO A DRY DENSITY BETWEEN 95% AND 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE COMPACTED MOISTURE CONTENT OF THE CLAYS DURING PLACEMENT SHOULD BE WITHIN THE RANGE OF 2 TO 6% POINTS ABOVE OPTIMUM.
 - CLAY MATERIAL USED AS FILL SHOULD BE PROCESSED SUCH THAT THE LARGEST PARTICLE OR CLOD IS LESS THAN 6 INCHES PRIOR TO COMPACTION.
 - IN CASES WHERE EITHER MASS FILLS OR UTILITY LINES ARE MORE THAN 10 FT DEEP, THE FILL/BACKFILL BELOW 10 FT SHOULD BE COMPACTED TO AT LEAST 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) AND WITHIN 2% OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT. THE PORTION OF THE FILL/BACKFILL SHALLOWER THAN 10 FT SHOULD BE COMPACTED AS OUTLINED ABOVE.
 - COMPACTION SHOULD BE ACCOMPLISHED BY PLACING FILL IN ABOUT 8-INCH THICK LOOSE LIFTS AND COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. FIELD DENSITY AND MOISTURE CONTENT TESTS SHOULD BE PERFORMED ON EACH LIFT.
 - CHECK VALVES SHALL BE AMERICAN (ACIPCO) SERIES 600 WITH LEVER AND SPRING.
 - PIPE SUPPORTS SHALL BE STANDON MODEL S89 OR EQUAL FLANGED PIPE SUPPORT, OR SHALL BE PER FLANGED PIPE SUPPORT DETAIL.
 - AT THE CONTRACTOR'S OPTION, ALL INTERIOR CONCRETE COMPONENTS OF THE WET WELL SHALL EITHER BE CAST USING CON-SHIELD ADDITIVE OR CONTRACTOR MAY COAT ALL INTERIOR EXPOSED CONCRETE AND GROUT SURFACES OF WET WELL PER NOTES ON SHEET LS-5.
 - ALL DIP PIPE WITHIN THE WET WELL AND VALVE VAULT SHALL BE COATED WITH 2 EA. LAYERS OF 6 MIL. DFT DEVOE BAR-RUST 233H HIGH PERFORMANCE EPOXY, OR APPROVED EQUAL. D.I.P. SHALL BE LINED WITH 40 MILS PROTECTO 401 CERAMIC LINER.
 - INSTALL GATE VALVES WITH SHAFTS HORIZONTAL. PROVIDE HORIZONTAL TO VERTICAL GEARED OPERATOR WITH 2" OPERATOR NUT.
 - ALL BOLTS, NUTS, WASHERS, ANCHOR BOLTS, FASTENERS, AND RELIEF STRAIN GRIPS SHALL BE 316SS. ANCHOR BOLT SYSTEMS SHALL BE EPOXY OR ADHESIVE TYPE BY HILTI, OR APPROVED EQUAL.
 - WET WELL SHALL BE DESIGNED FOR LATERAL EARTH PRESSURE OF 110 PSF AND HYDROSTATIC FORCES PER ALPHA TESTING GEOTECHNICAL REPORT DATED MAY 20, 2015.
 - WET WELL AND VALVE VAULT SHALL BE MIN. 4,200 PSI CONCRETE WITH PIGMENT MIXED IN TERRA COTTA COLOR CON-SHIELD LINED; OTHERWISE WETWELL COATING SHALL BE AS DESCRIBED ON SHEET LS-5.



SECTION C
N.T.S.

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE TEAGUE NALL & PERKINS, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.
DATE: 1/08/2018



PERKINS ENGINEERING CONSULTANTS, INC.
TYPE REGISTRATION NO. F-86899

LIFT STATION PIPING AND SECTIONS

PHASE I LIFT STATION

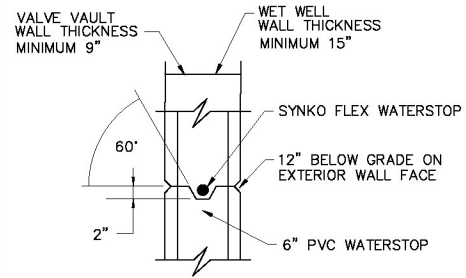
CITY OF ROCKWALL, TEXAS
SOMERSET PARK

DATE	BY	DESCRIPTION

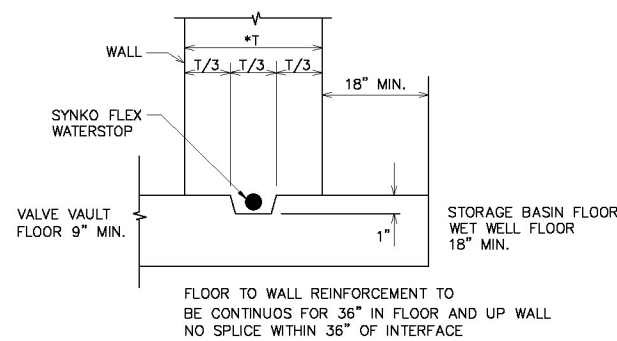
Date: 2/1/2017
 Design: LGK
 Drawn: SRG
 Reviewed: MAP
 PEC Proj. No. TYP 14-002
 of
 SED

SHEET NO. LS-3

WALLS SECTION

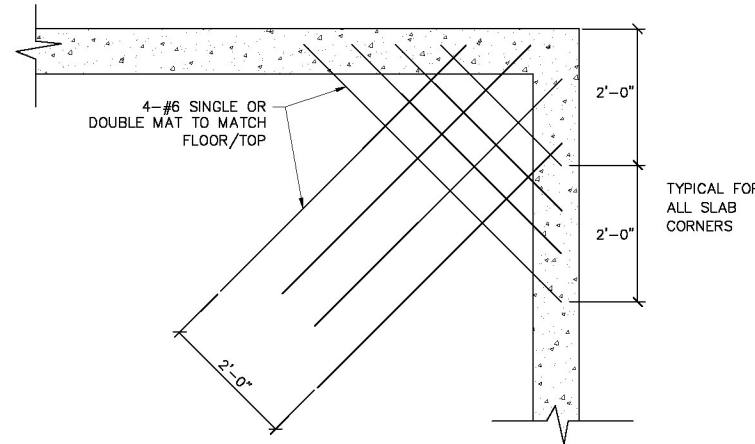


WALL - FLOOR CONNECTION



WATER-STOP CONSTRUCTION

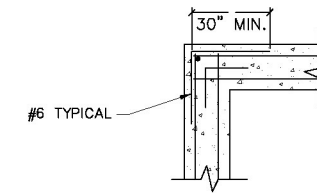
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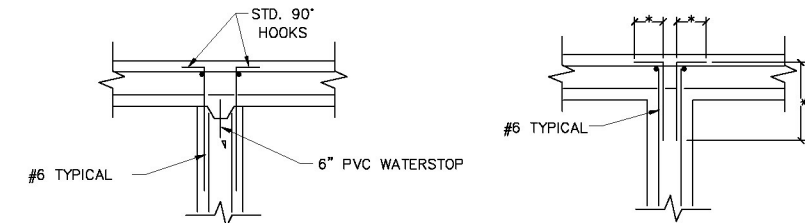
ADDITIONAL REINFORCING @ EXTERIOR CORNER

NOT TO SCALE

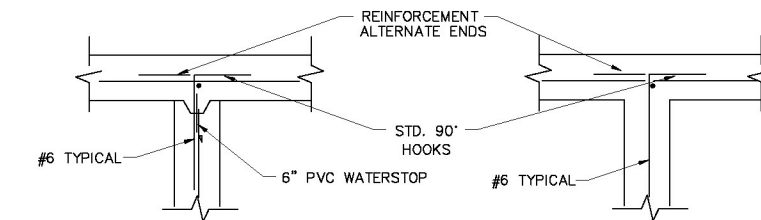
* MINIMUM LAP LENGTH
ALL 90° BENDS AS SHOWN UNLESS OTHERWISE INDICATED ON DESIGN DRAWINGS. INSTALL ADDITIONAL VERTICAL BARS AT HOOKS AS SHOWN.



TYPICAL CORNER REINFORCEMENT

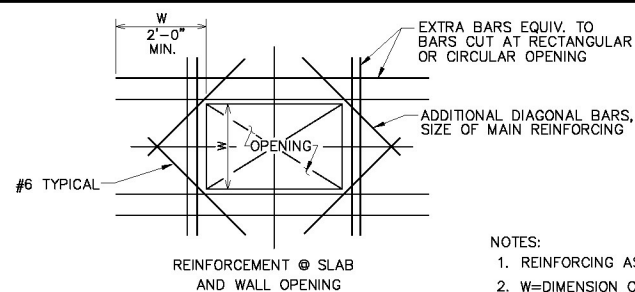


TYPICAL INTERSECTION FOR DOUBLE CURTAIN



CORNER REINFORCEMENT DETAILS

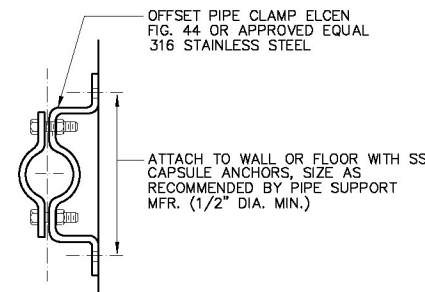
NOT TO SCALE



- NOTES:
1. REINFORCING AS INDICATED ON SECTION DETAIL
2. W=DIMENSION OF OPENING PERPENDICULAR TO BARS CUT.

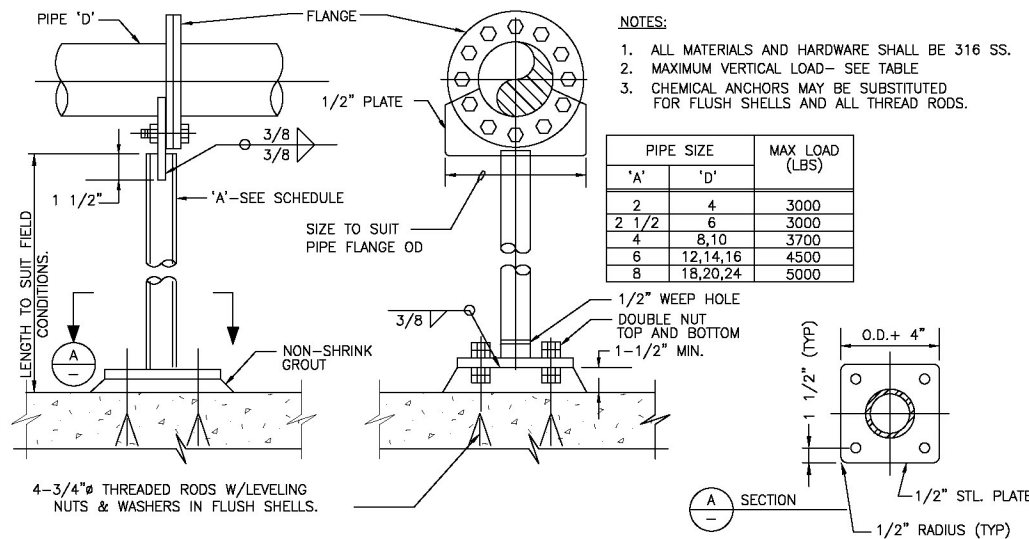
ADDITIONAL REINFORCING AROUND OPENINGS AND VALVE VAULT

NOT TO SCALE



TYPICAL OFFSET PIPE SUPPORT

NOT TO SCALE

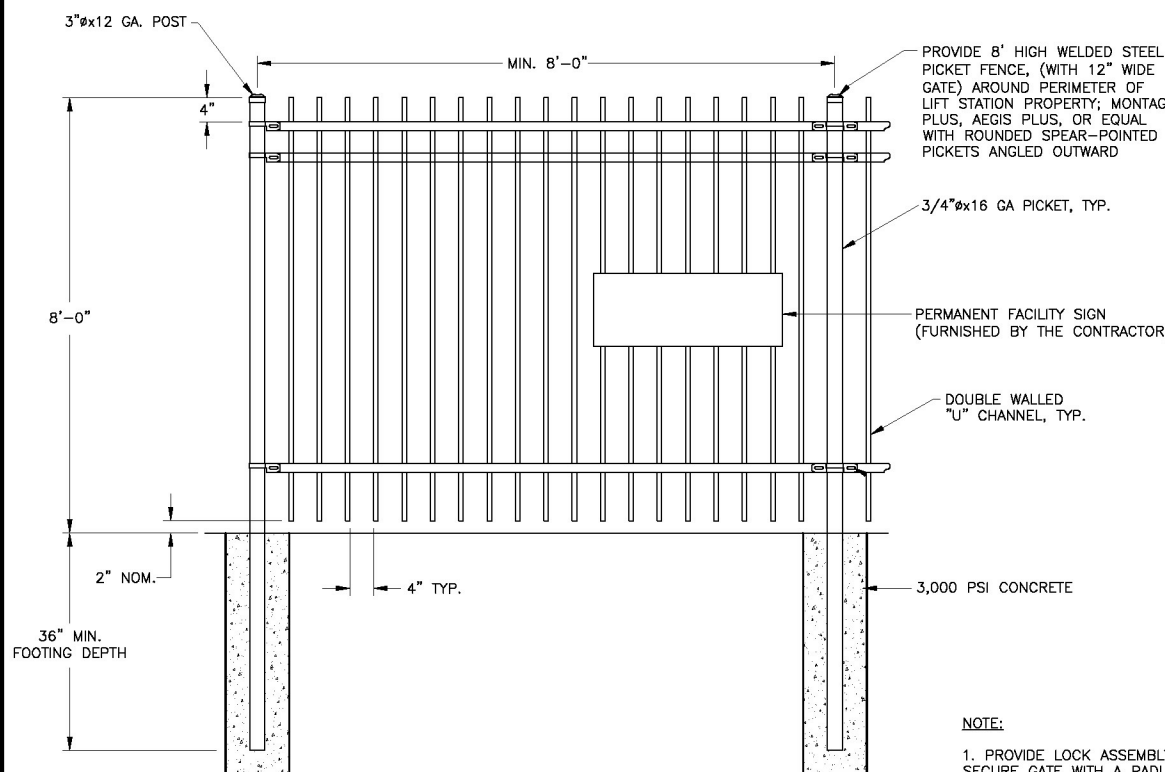


- NOTES:
1. ALL MATERIALS AND HARDWARE SHALL BE 316 SS.
2. MAXIMUM VERTICAL LOAD- SEE TABLE
3. CHEMICAL ANCHORS MAY BE SUBSTITUTED FOR FLUSH SHELLS AND ALL THREAD RODS.

PIPE SIZE		MAX LOAD (LBS)
'A'	'D'	
2	4	3000
2 1/2	6	3000
4	8,10	3700
6	12,14,16	4500
8	18,20,24	5000

FLANGED PIPE SUPPORT

NOT TO SCALE



- NOTE:
1. PROVIDE LOCK ASSEMBLY TO SECURE GATE WITH A PADLOCK.

TUBULAR STEEL FENCE DETAIL

NOT TO SCALE

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE TEAGUE NALL & PERKINS, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.
DATE: 1/08/2018

BY	DESCRIPTION	DATE	NO.

LIFT STATION DETAILS

CITY OF ROCKWALL, TEXAS
SOMERSET PARK
PHASE I
LIFT STATION

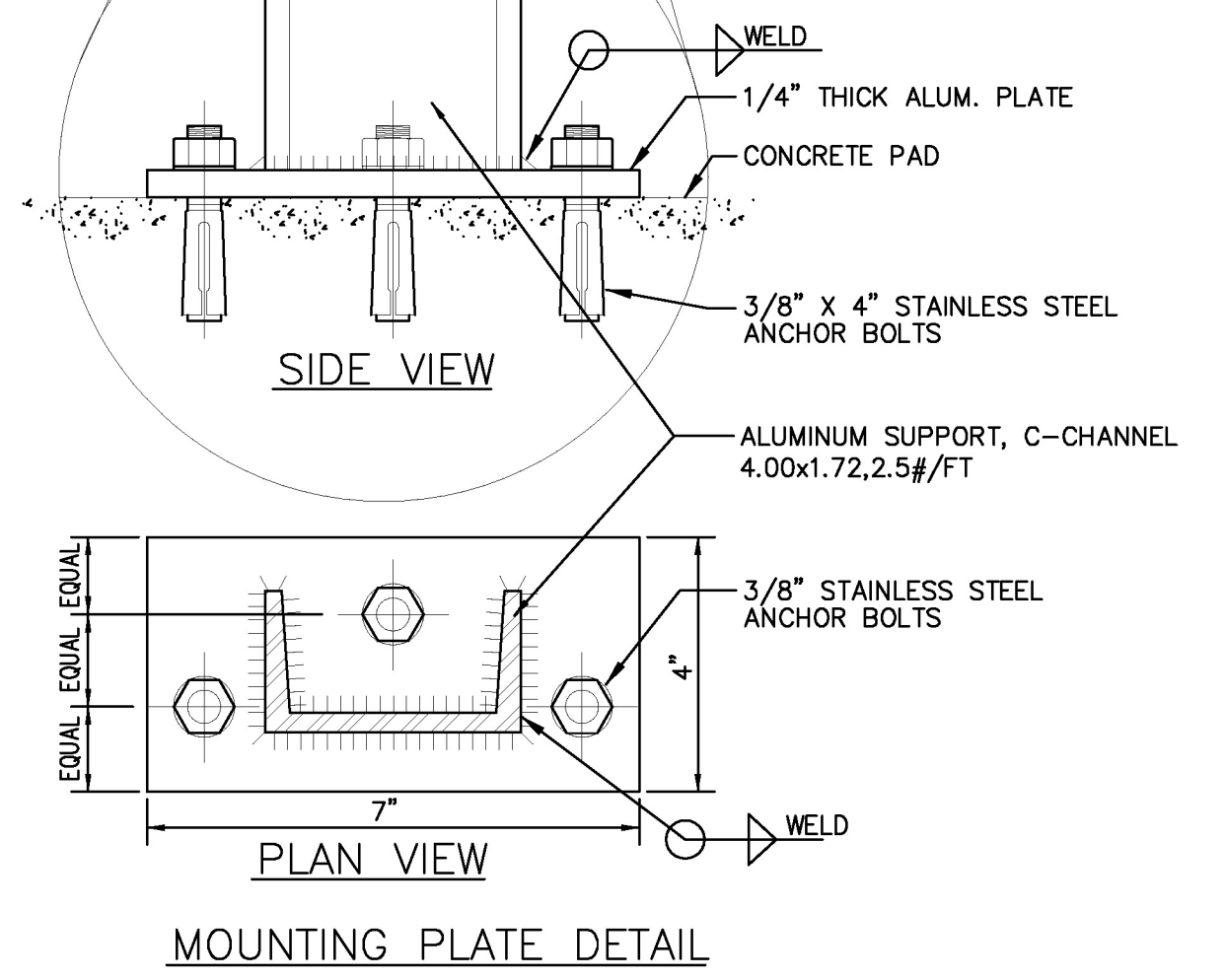
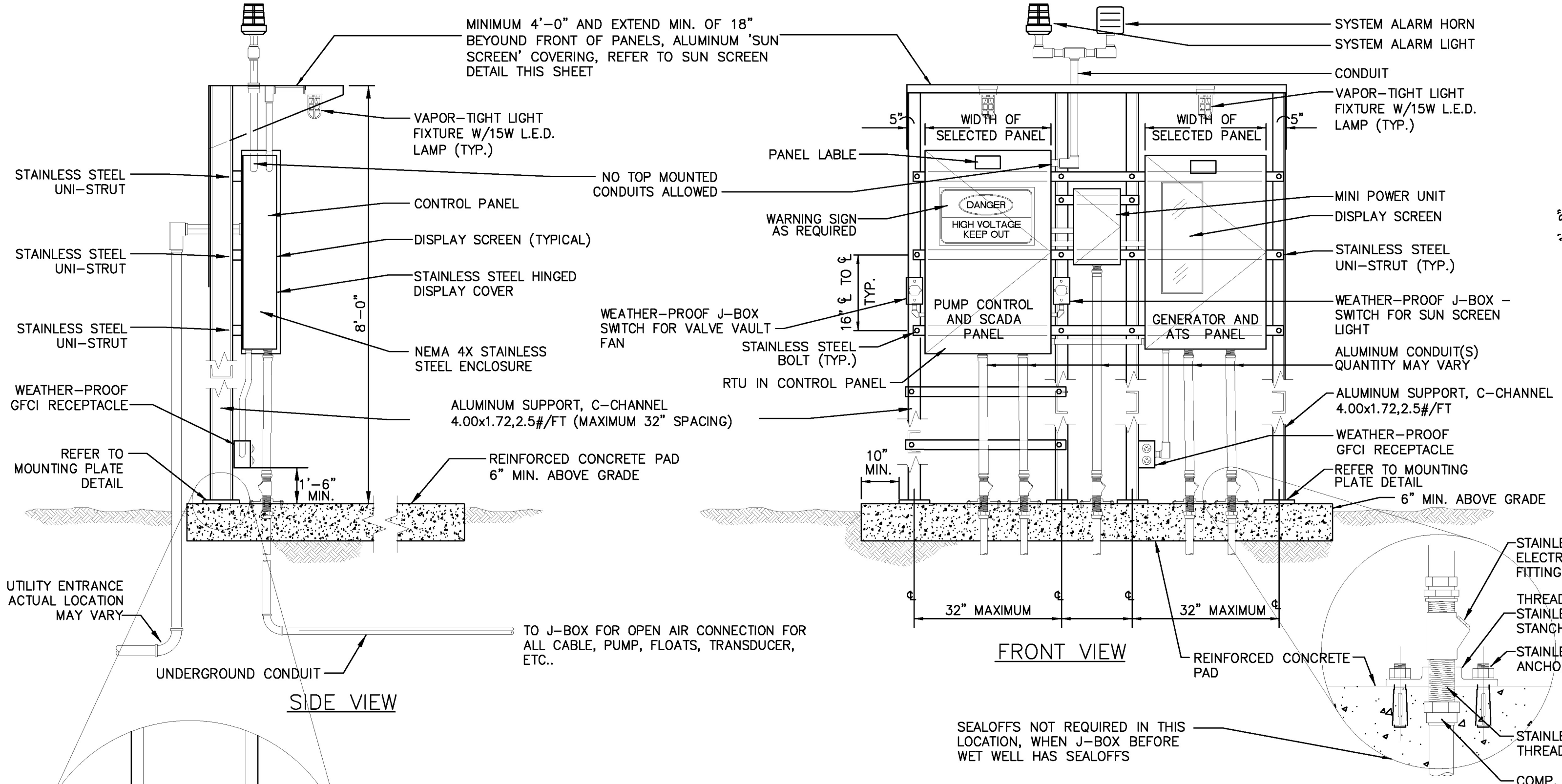
Date:	Designed:	Drawn:	Reviewed:	PEC Proj. No.	TWP	of
2/1/2017	LIG	SRG	MAP	TWP 14-002		



SHEET NO. LS-4

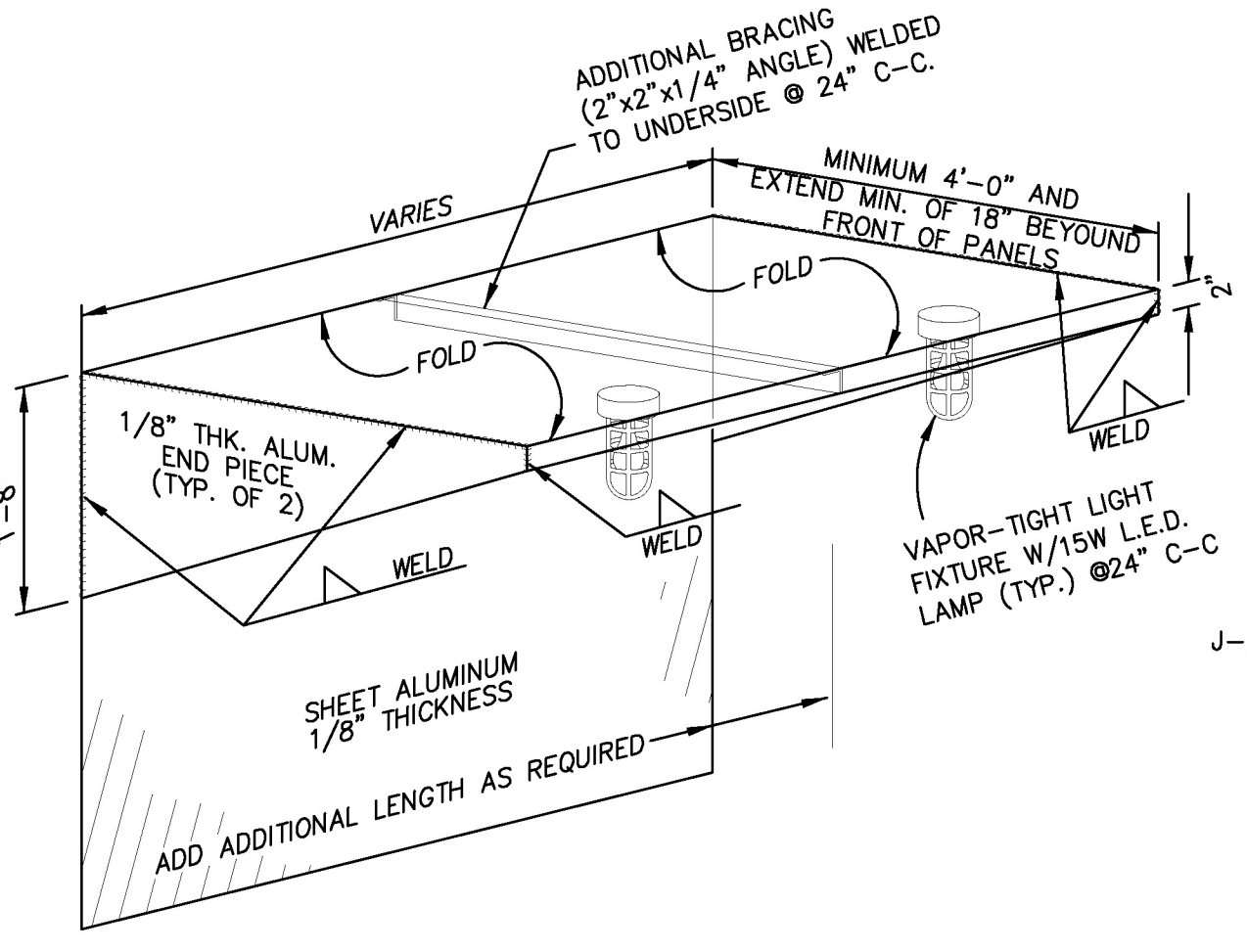
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BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.
ONE INCH

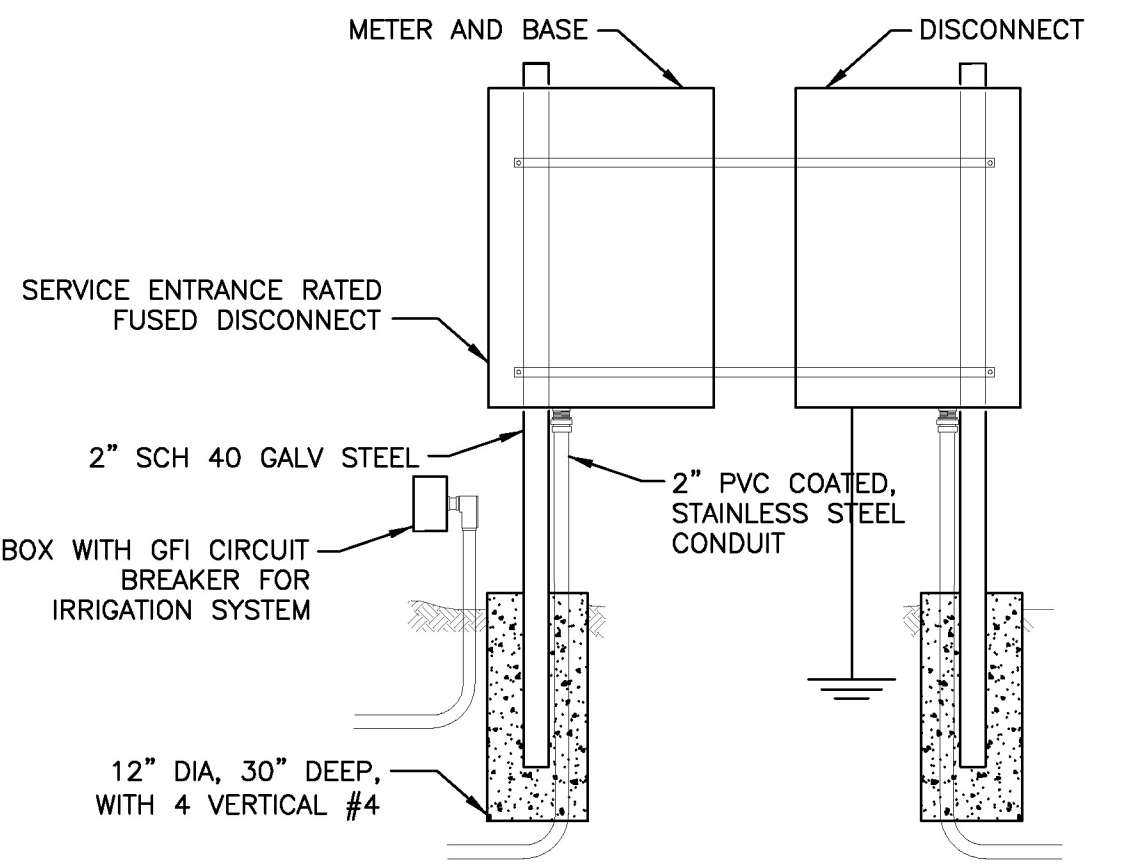


1 CONTROL PANEL MOUNTING WITH SUN SCREEN DETAIL
NO SCALE
DISPLAY SHALL FACE SOUTH

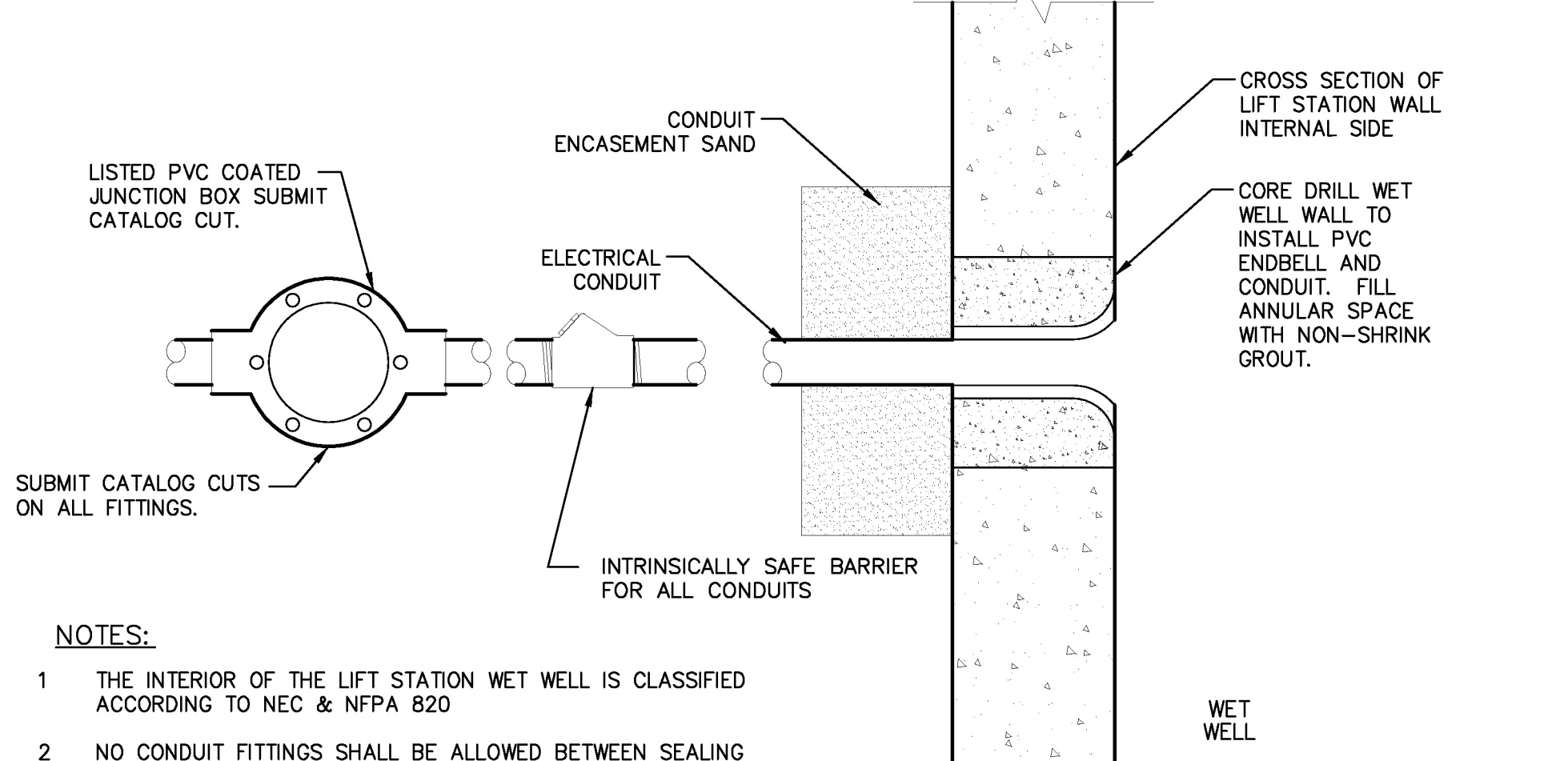
CONTRACTOR SHALL VERIFY PANEL DIMENSIONS AND REQUIRED CLEARANCES PRIOR SETTING OF SUPPORT COLUMNS OR CONSTRUCTION.



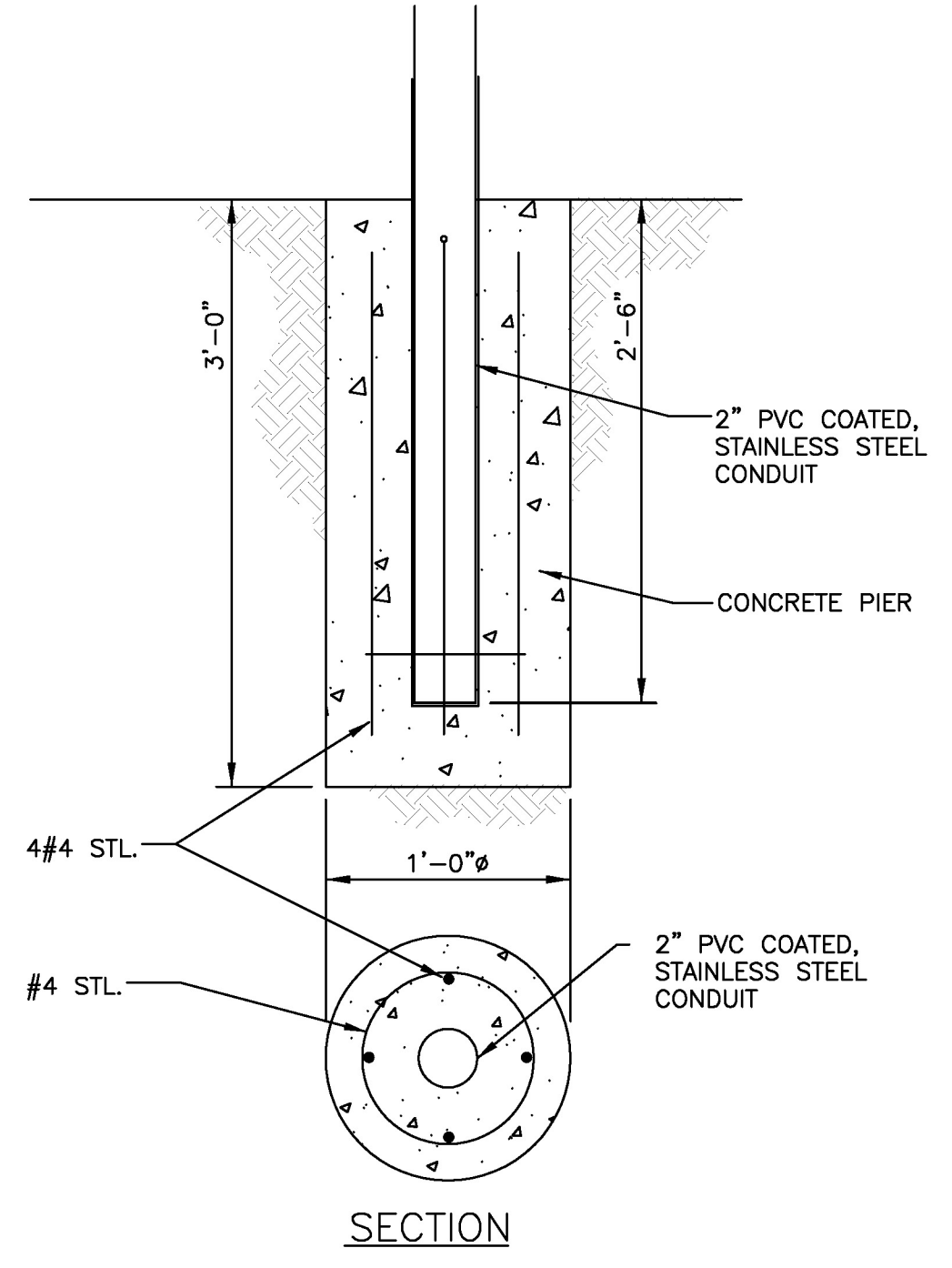
2 SUN SCREEN DETAIL
NO SCALE



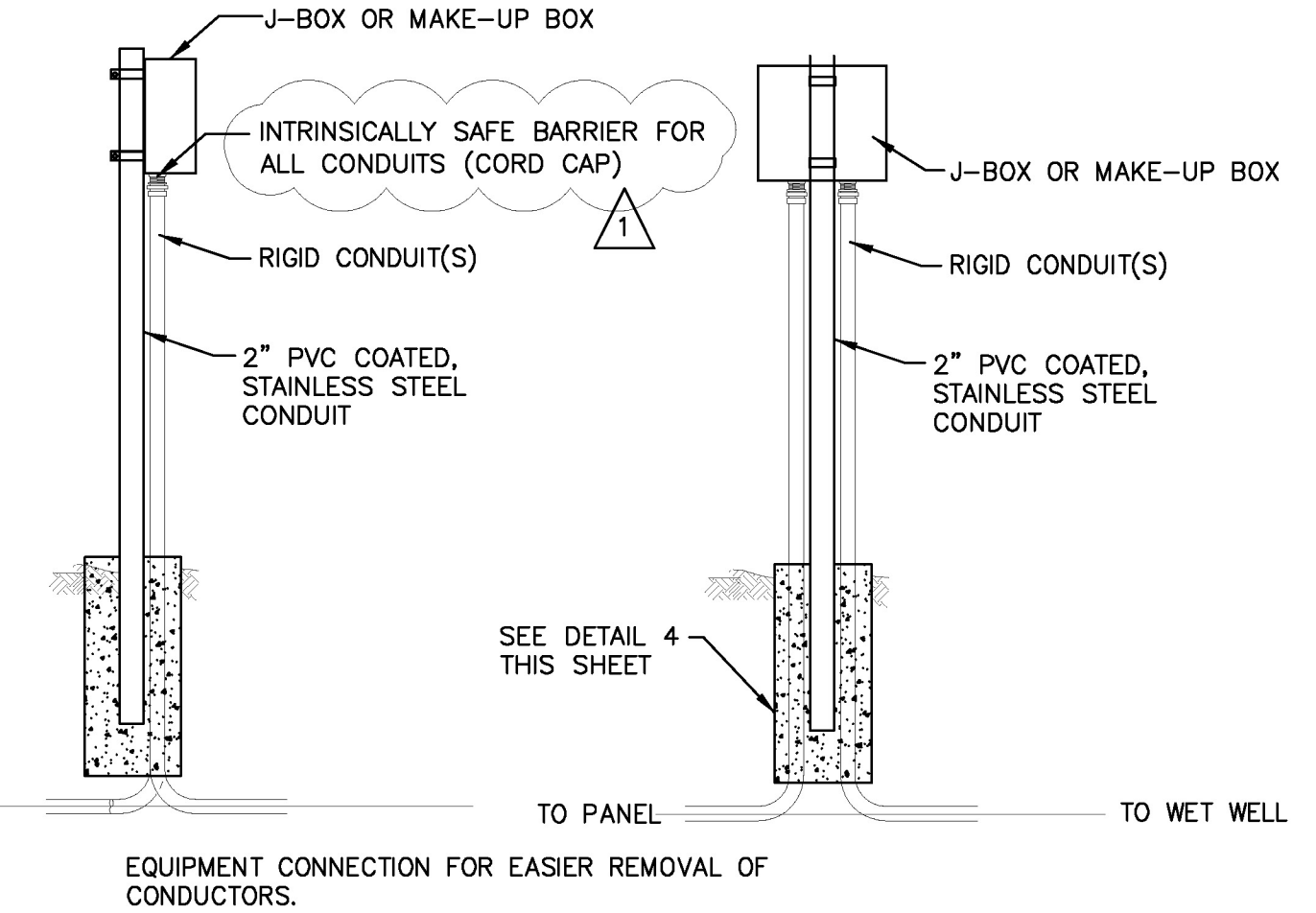
3 UNDERGROUND SERVICE METER PEDESTAL DETAIL
NO SCALE



- NOTES:**
- 1 THE INTERIOR OF THE LIFT STATION WET WELL IS CLASSIFIED ACCORDING TO NEC & NFPA 820
 - 2 NO CONDUIT FITTINGS SHALL BE ALLOWED BETWEEN SEALING FITTING AND CHANGE OF CLASSIFICATION.
 - 3 LOCATION OF CONDUIT PENETRATION INTO THE WET WELL SHALL BE LOCATED TO AVOID INSTALLATION WITHIN 12" VERTICALLY OF JOINTS.
 - 4 FLOATS CABLES SHALL BE IN DEDICATED CONDUIT.
 - 5 POWER CABLES SHALL BE IN DEDICATED CONDUIT.
 - 6 LEVEL TRANSMITTER CABLES SHALL BE IN DEDICATED CONDUIT.



5 CONCRETE PIER DETAIL
NO SCALE



4 EQUIPMENT CONNECTION DETAIL
NO SCALE

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.
ONE INCH

RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE TEAGUE HALL & PERKINS, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR. DATE: 1/08/2018

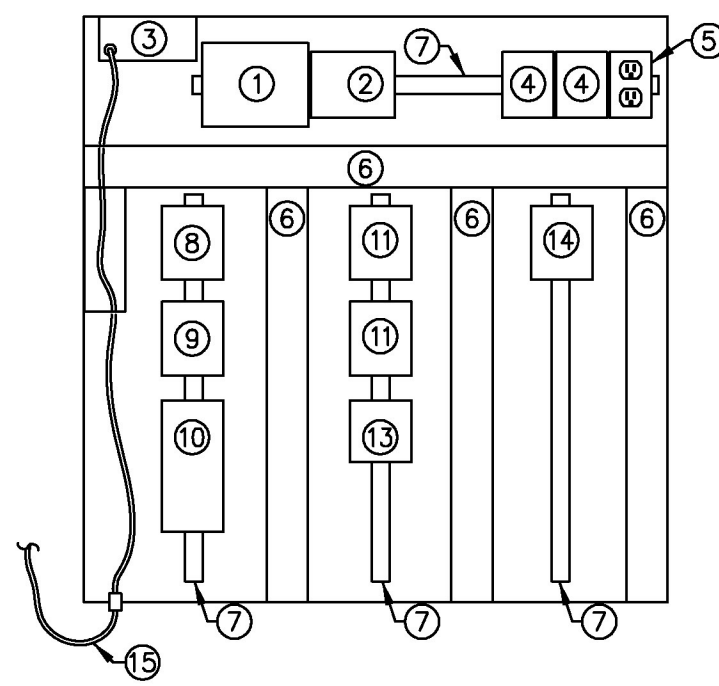


NO.	DATE	DESCRIPTION

ELECTRICAL CONTROL PANEL DETAILS

**CITY OF ROCKWALL, TEXAS
SOMERSET PARK
PHASE I
LIFT STATION**

Date:	02/01/2017	of
Designed:	TDT	
Drawn:	MLH, ED, CC	
Reviewed:	TDT	
PEC Proj. No.:	TNP 14-002	



RTU I/O SCHEDULE				
DESCRIPTION	I/O TYPE	FUNCTION	FIELD DEVICE	COMMENTS
WET WELL LEVEL	A/I	MONITOR	HYDRORANGER	FLOW RATE
FLOW TRANSMITTER	D/I	ALARM	HYDRORANGER	ALARM
INTRUSION ALARM INSTRUMENT ENCLOSURE	D/I	ALARM	SENSOR SWITCH	OPEN DOOR
INTRUSION ALARM INSTRUMENT ENCLOSURE	D/I	ALARM	SENSOR SWITCH	GATE OPEN
INTRUSION ALARM INSTRUMENT ENCLOSURE	D/I	ALARM	SENSOR SWITCH	HATCH OPEN
MANUAL TRANSFER SWITCH	D/I	ALARM	TRANSFER SWITCH	ONE PER ALARM
PUMP CONTROL PANEL	D/I	ALARM & MONITOR	PUMP CONTROL PANEL	ONE PER ALARM
POWER MONITOR	A/I & D/I	ALARM & MONITOR	POWER MONITOR	ONE PER ALARM

NOTES:
1. PROVIDE NECESSARY ANALOG TRANSDUCERS FOR POWER QUALITY METER (PQM) FOR MONITORING SIGNALS TO THE RTU.

2 RTU INSTRUMENT BLOCK DIAGRAM

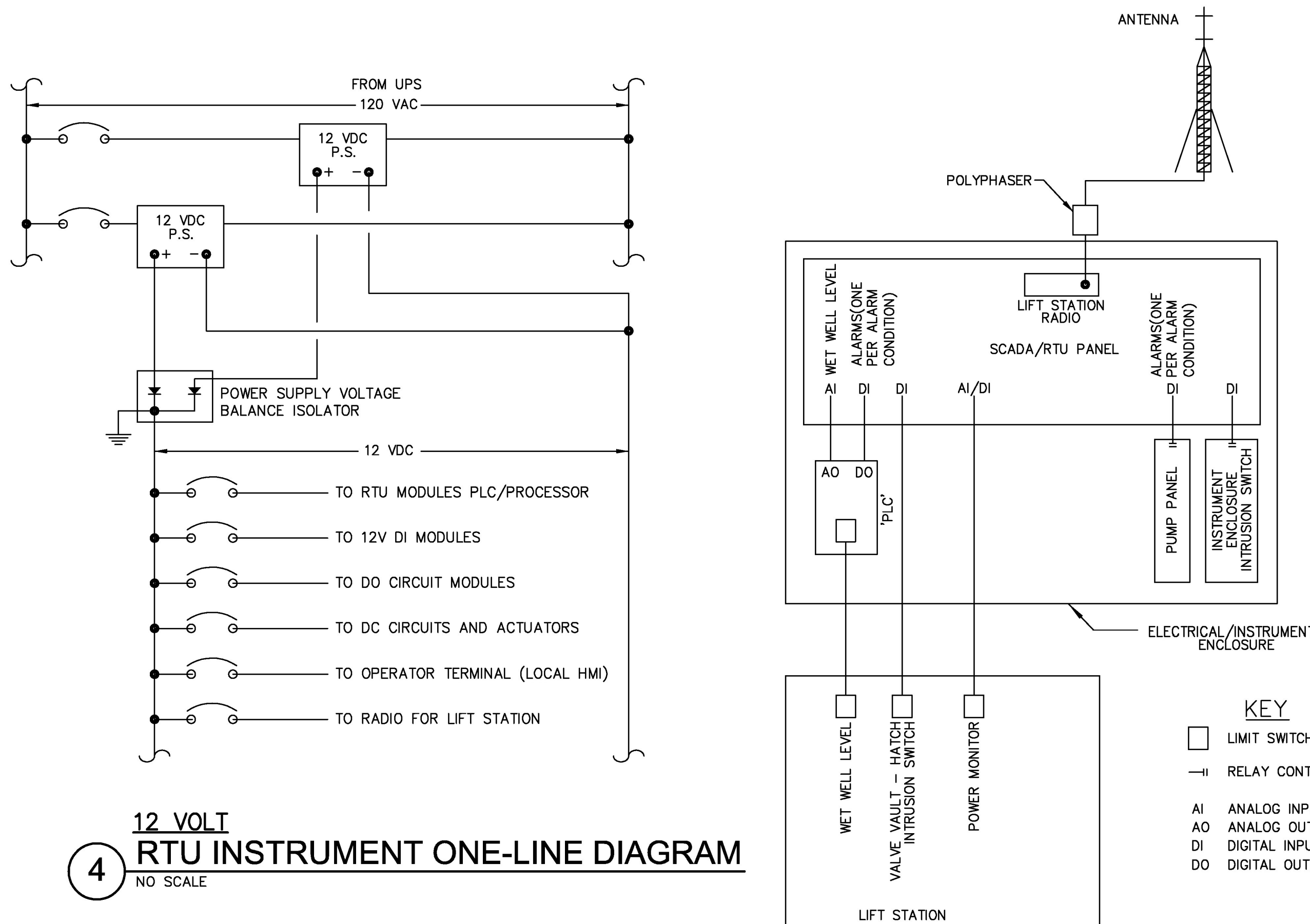
NO SCALE

TAG	DESCRIPTION	MANUFACTURER	MODULE / TYPE	COMMENTS
1	HSQ PROCESSOR		PROCESSOR	WITH ETHERNET PORT
2	HSQ PROCESSOR MODULE		AS REQUIRED	
3	RADIOS FOR METERING STATION		AS REQUIRED PER SCADA SYSTEM	
4	POWER SUPPLY	PHOENIX CONTACT	DIN RAIL MOUNTED	AS REQUIRED
5	120 VAC RECEPTACLE	PHOENIX CONTACT	DIN RAIL MOUNTED	AS REQUIRED
6	WIRE DUCT WITH COVER	PANDUIT	2" X 3" (WHITE)	AS REQUIRED
7	DIN RAILS	PHOENIX CONTACT	AS REQUIRED	
8	CIRCUIT BREAKER	PHOENIX CONTACT	SIZE AS REQUIRED	
9	SURGE PROTECTION DEVICE	PHOENIX CONTACT	TRAB TECH	AS REQUIRED
10	FUSE & TERMINAL BLOCKS	PHOENIX CONTACT	AS REQUIRED	
11	D/I RELAY MODULE	PHOENIX CONTACT	DIN RAIL MOUNTED	16 POINT D/I
12	ANALOG SURGE PROTECTORS	PHOENIX CONTACT	TRAB TECH	AS REQUIRED
13	D/O RELAYS	PHOENIX CONTACT	DIN RAIL MOUNTED	AS REQUIRED
14	POWER SUPPLY DIODES ISOLATOR	PHOENIX CONTACT	DIN RAIL MOUNTED	REDUNDANT PS DIODES
15	ANTENNA COAX SURGE ARRESTOR	POLYPHASER	AS REQUIRED	NOT SHOWN

NOTES:
1. OPERATOR INTERFACE PANEL (OIP) TO BE MOUNTED IN FRONT DOOR OF PANEL. SEE SPECIFICATION.
2. UPS TO MOUNT IN FRONT OF PANEL.
3. CAUTION PLATE TO BE MOUNTED ON EXTERIOR OF FRONT DOOR.

1 RTU / SCADA POWER SIMPLIFIED SCHEMATIC

NO SCALE



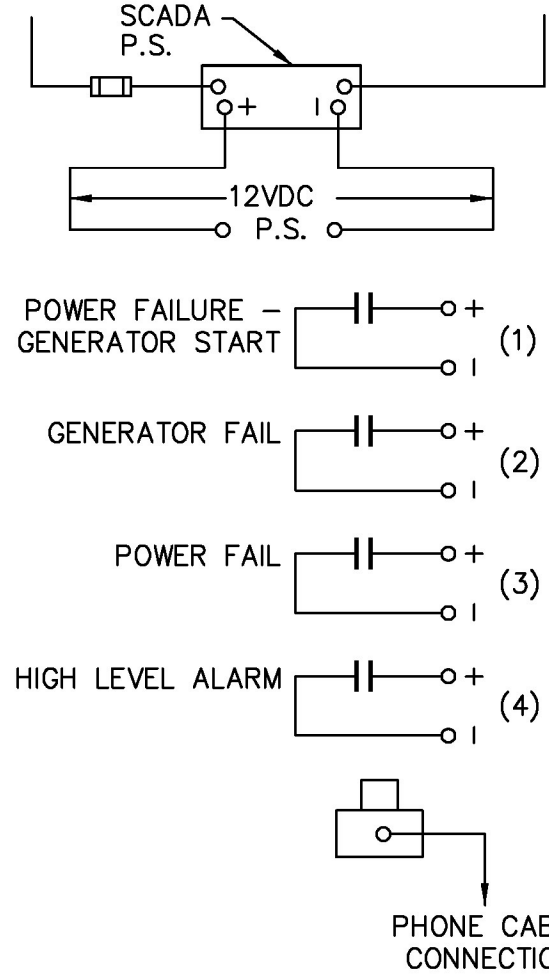
4 12 VOLT RTU INSTRUMENT ONE-LINE DIAGRAM

NO SCALE

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

3 SCADA RADIO ONE-LINE DIAGRAM

NO SCALE



CITY REQUIRED INSTRUCTIONS TO CONTRACTOR
SCADA CONNECTION TO OWNER'S SYSTEM. ALL PROGRAMMING SHALL COMPLY WITH OWNER'S REQUIREMENTS. SEE CITY SPECIFICATIONS FOR SCADA REQUIREMENTS.

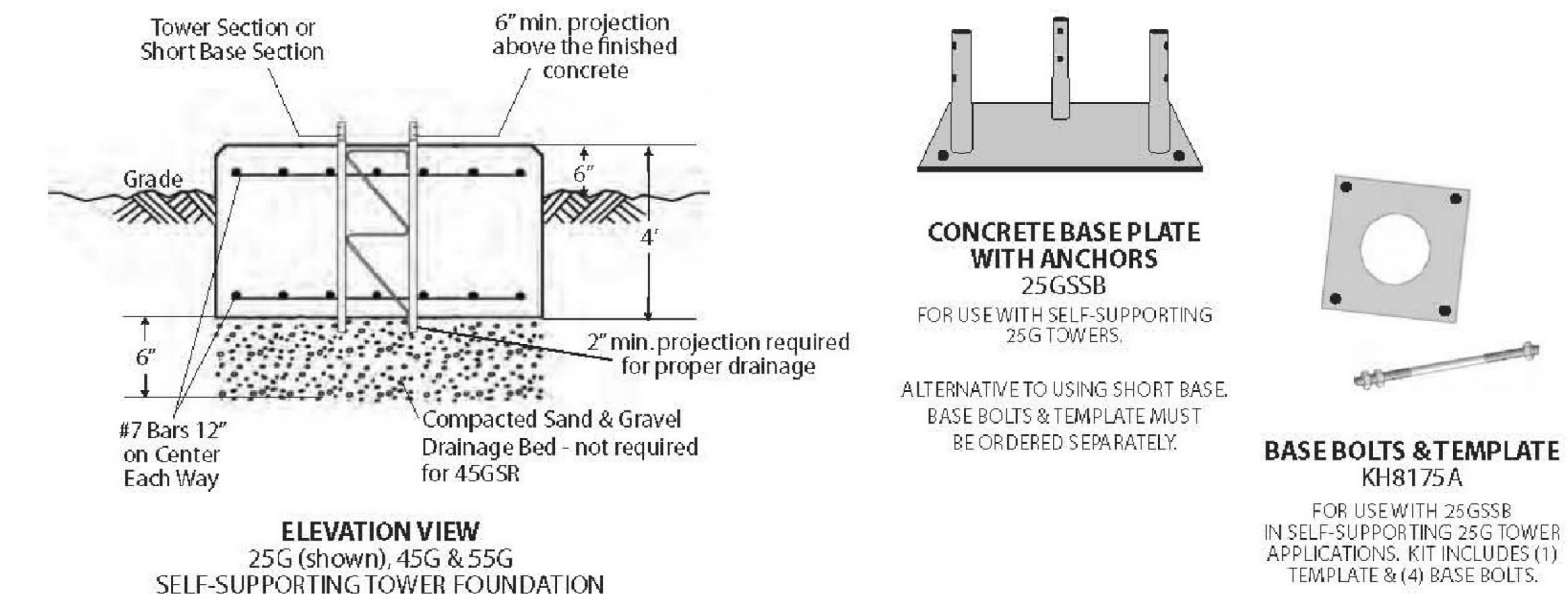
UPS SHALL BE APC-BR700G OR APPROVED EQUAL.
TVSS SHALL BE SIEMENS TPS3F1115D OR APPROVED EQUAL.
DC POWER SUPPLIES SHALL PHOENIX, MINIMUM 2.4AMP, 12 VOLT OR APPROVED EQUAL.
INTRUSION DETECTION SHALL BE SQUARE D, STAINLESS STEEL LIMIT SWITCHED OR APPROVED EQUAL.
RADIO SHALL MATCH THE EXISTING SYSTEMS RADIOS OR APPROVED EQUAL.
ANTENNA SHALL MATCH THE EXISTING SYSTEMS ANTENNAS, OR APPROVED EQUAL.
ANTENNA CABLE SHALL BE 1/2" DIAMETER IF LESS THAN 50 FT, OR 7/8" FOR GREATER THAN 50 FT.
SCADA SHALL MONITOR THE OPERATION OF THE LIFT STATION ONLY.
THE LIFT STATION SHALL BE CONTROLLED FROM THE LOCAL LEVELS.
AUTOMATIC PUMP ALTERNATOR SHALL NOT BE CONTROLLED BY THE "PLC".
INTRINSICALLY SAFE BARRIER ON ALL CABLES, OR CONDUCTORS TO WET WELL.

KEY
 LIMIT SWITCHES
 RELAY CONTACTS
 AI ANALOG INPUT
 AO ANALOG OUTPUT
 DI DIGITAL INPUT
 DO DIGITAL OUTPUT

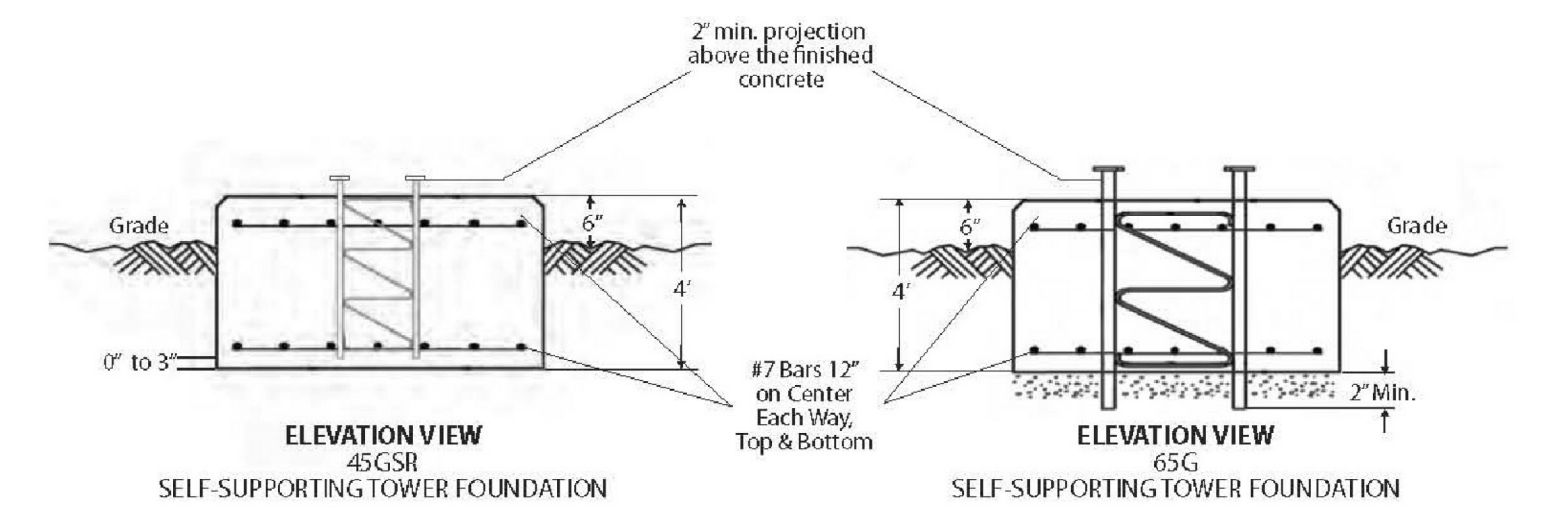
100 MPH
3-Second Gust

Height	100 MPH 3-Second Gust Wind Speed														
	25G		45G		45GSR		55G		65G						
	EPA	Part No.	EPA	Part No.	EPA	Part No.	EPA	Part No.	EPA	Part No.					
10'	20.7	16.4	25SS010	47.4	39.5	45SS010	82	66	45SR010	78	63	55SS010	95	95	65SS010
20'	14.0	9.9	25SS020	23.2	16.9	45SS020	74	55	45SR020	43	32	55SS020	95	95	65SS020
30'	5.3	2.2	25SS030	9.7	4.8	45SS030	66	43	45SR030	24	14	55SS030	81	55	65SS030
35'	2.1	-	25SS035	5.1	0.7	45SS035	59	38	45SR035	17	8	55SS035	61	40	65SS035
40'	-	-	-	-	-	45SS040	46	30	45SR040	10	3	55SS040	47	29	65SS040
45'	-	-	-	-	-	-	35	22	45SR045	5	-	55SS045	35	20	65SS045
50'	-	-	-	-	-	-	27	15	45SR050	-	-	-	26	13	65SS050
55'	-	-	-	-	-	-	20	9	45SR055	-	-	-	17	6	65SS055
60'	-	-	-	-	-	-	13	4	45SR060	-	-	-	11	1	65SS060

SELF-SUPPORTING TOWERS

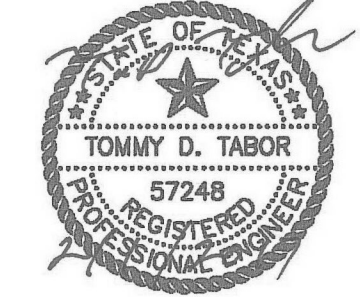


Tower	Mat Width (W)	Concrete Volume (Cu. Yds.)
25G	4'-0"	2.4
45G	5'-3"	4.1
55G	6'-0"	5.3
45GSR 65G	7'-9"	8.9



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RECORD DRAWINGS
TO THE BEST OF OUR KNOWLEDGE TEAGUE NALL & PERKINS, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR. DATE: 1/08/2018



PERKINS ENGINEERING CONSULTANTS, INC.
TBP# REGISTRATION NO. F-8699
BRAZOS ENVIRONMENTAL AND ENGINEERING SERVICES, INC.
(Firm # 838)

NO.	DATE	DESCRIPTION

SCADA DETAILS

CITY OF ROCKWALL, TEXAS
SOMERSET PARK
PHASE I
LIFT STATION

Date:	02/01/2017	of
Designed:	TDT	
Drawn:	MLH, ED, CC	
Reviewed:	TDT	
PEC Proj. No.:	TNP 14-002	

SHEET NO. LSE - 7