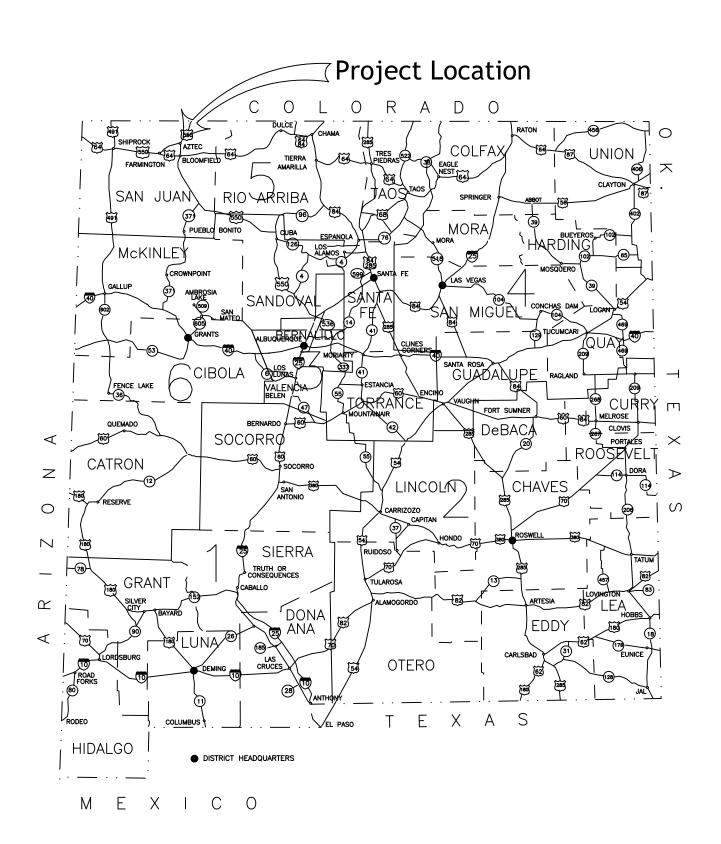
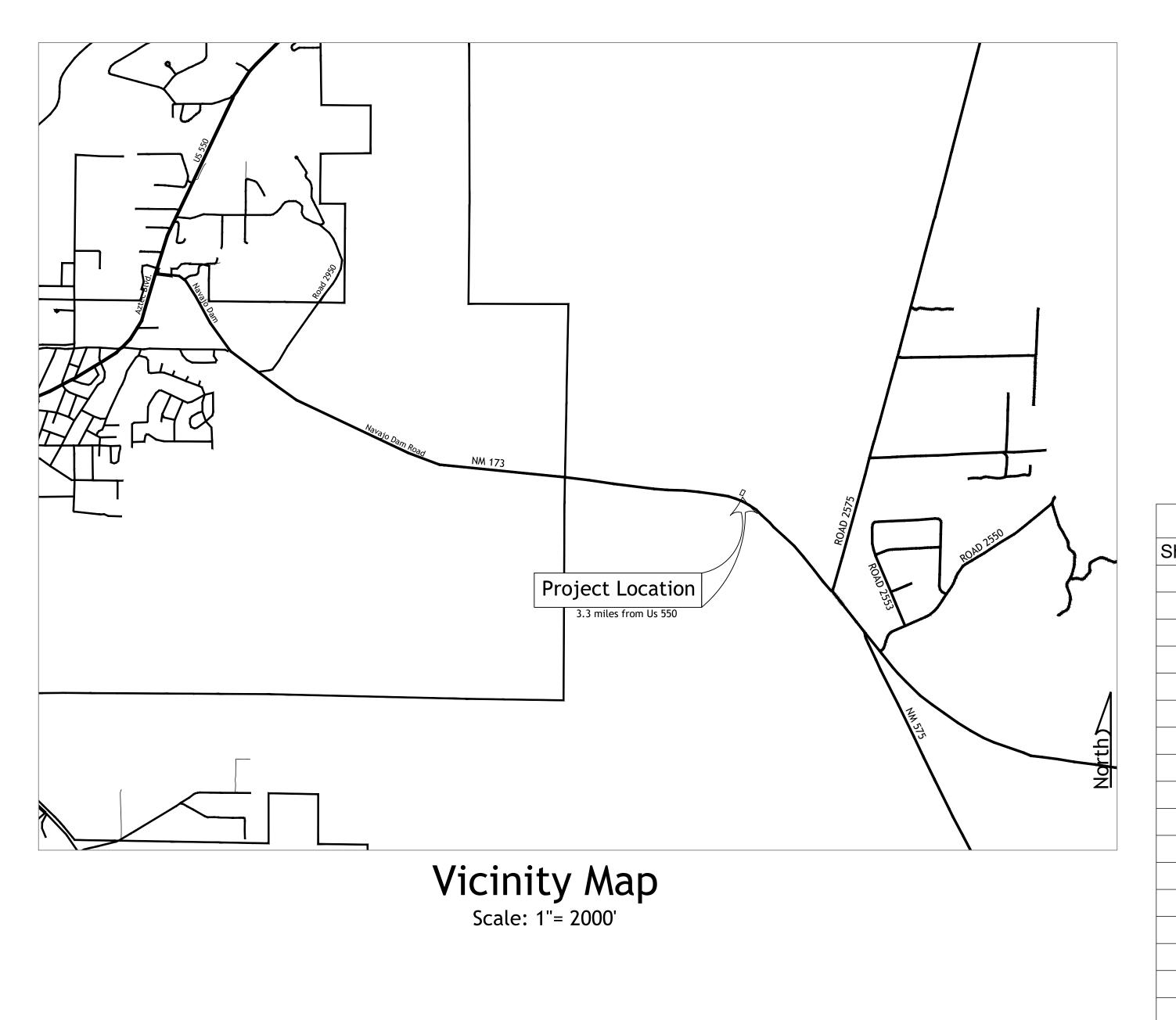
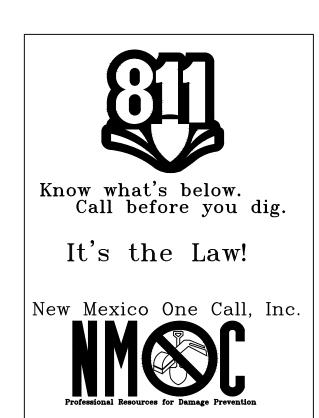
# East Aztec Pump Station City of Aztec, New Mexico San Juan County







UTILITY OWNERS CITY OF AZTEC DEPARTMENT OF PUBLIC WORKS (505) 334–7660 CITY OF AZTEC ELECTRIC DEVELOPMENT (505) 334–7660 QWEST (TELEPHONE) (505) 325–2311 COMCAST CABLE VICTOR APPLEGATE 505–402–0055 PNM (GAS) 505–324–3783

# D:\CHC Engineers\19003 Upper East Pump Station\CAD\COV Upper East.dwg Date: 12/18/2019 - 3:05pm

		Revision Log	1       .       .         2       .       .         3       .       .         4       .       .         5       .       .         6       .       .         Plot Date: 12/18/2019 - 3:05pm							
		Owner:	City of Aztec							
	  	Project:	EAST AZTEC PUMP STATION							
	Sheet List Table									
heet Number	Sheet Title									
1-1	Cover Sheet	tion:	EET							
1-2	Overview	)escrip	۶ SH							
2-1	Site Plan	Sheet Description:	COVER SHEET							
3-1	Pump House Piping - Plan View	S	Ŭ							
3-2	1 1 5									
E000	Electric Sheet Title & Index									
E001	Electric Power One Line 480VAC & 240VAC									
E002	Electric Panel Schedules 480VAC & 240VAC	┣								
E003										
E004	Electric Motor Schematic 480VAC Pump P-110		14238 0 Z							
E005	Equipment Layout & Conduit Routing Plan		12/18/14 S							
E006	Interior Elevation & Bill Of Materials		RED AROFESSIONAL							
E007	Interior Elevation & Bill Of Materials	┢								
E008	Lighting & Power Plan									
E009	Electric Conduit & Cable Schedule		HC Engineers, LLC							
E010	Pump House Grounding Plan	C								
S1 S2	Foundation & Roof Plans & Details		50 Valley Court Durango, CO							
32	General Structural Specs & Details	-	970-387-8765 Project Date:							
		<b> </b>	12/18/19							

Proj: 19003

1-1





- Control Panel SCADA

- Stub up and Cap Conduit

- Existing Pressure Transducer Abandon, leave in place.

Existing 6" Gate Valve Protect in Place

- Existing Buried Pump To be Removed and Djsposed

- Existing 6" Gate Valve Demo to City - Remove 45lf existing pipe and appurtenances after pump station is operational. Install Cap at Tees both ends. Pressure Gauge

 Provide (1) 2" PVC Conduit, glued connections with long sweep radius. Bury 24" deep. Provide wiring and connect to cathodic protection system to new pump house.

- Electric Panel - Stub up and Cap Conduit

Demo to City

New 6" Gate Valve with Valve Box (Temporary - Demo to City)
New 8"x6" Reducer (Temporary - Demo to City)

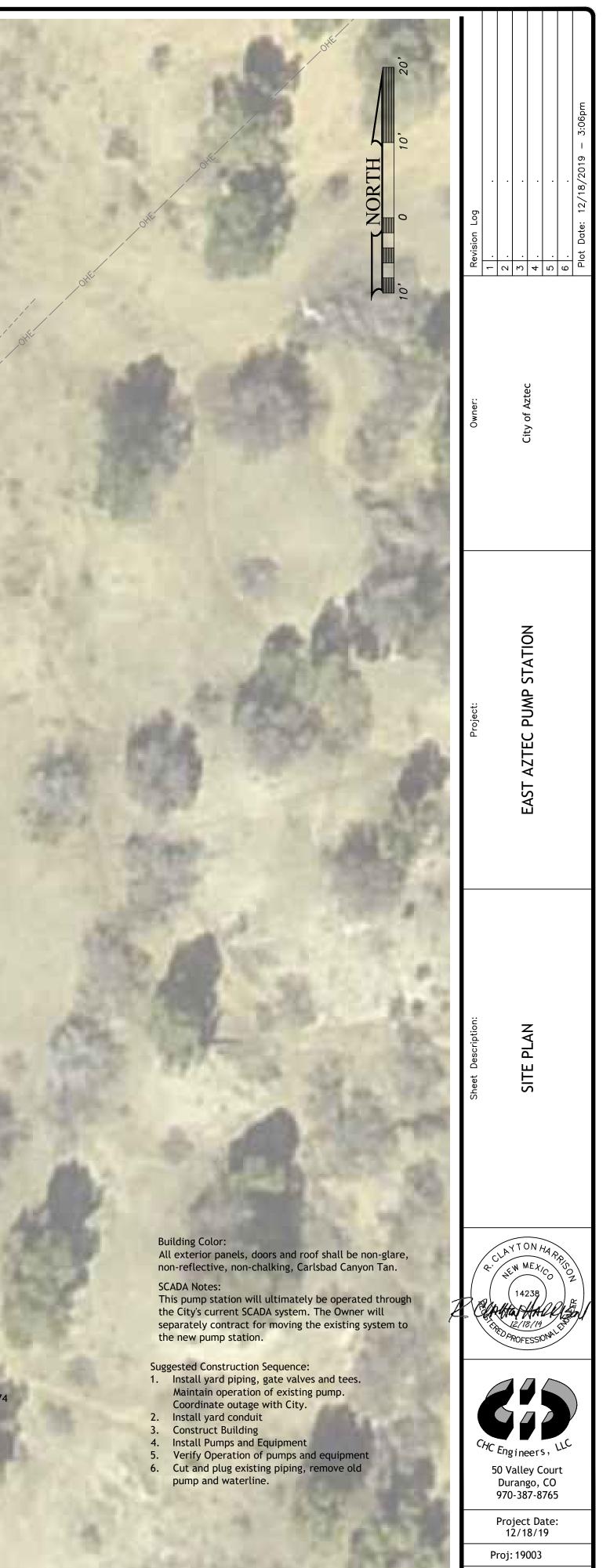
Remove and Replace Fence as Required.

- Existing Line to the Upper East Tank

Provide (3) 2" PVC Conduits, glued connections with long sweep radius. Bury 24" deep.

> Bench Mark-EL:6197.44

Topographic Survey performed by: JOHNSON MAPPING AND SURVEYING, LLC PO BOX 2174, FARMINGTON NM 87499-2174 505-360-8029 alex@johnsonmapping.biz

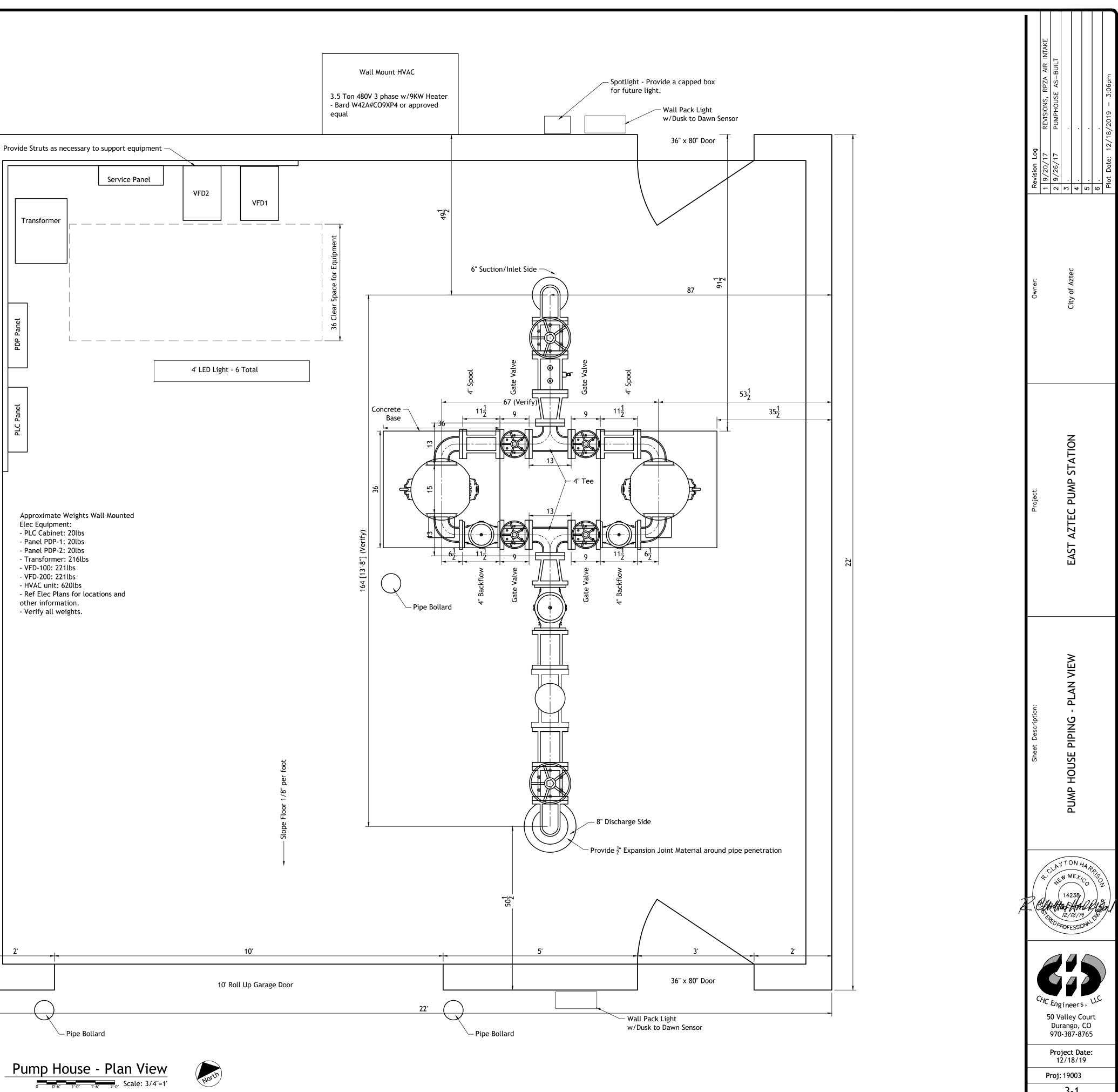


2-1

### Note:

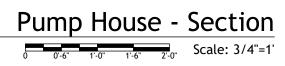
• All Fittings shall be AWWA C110 PC 250 with Flanged Ends.

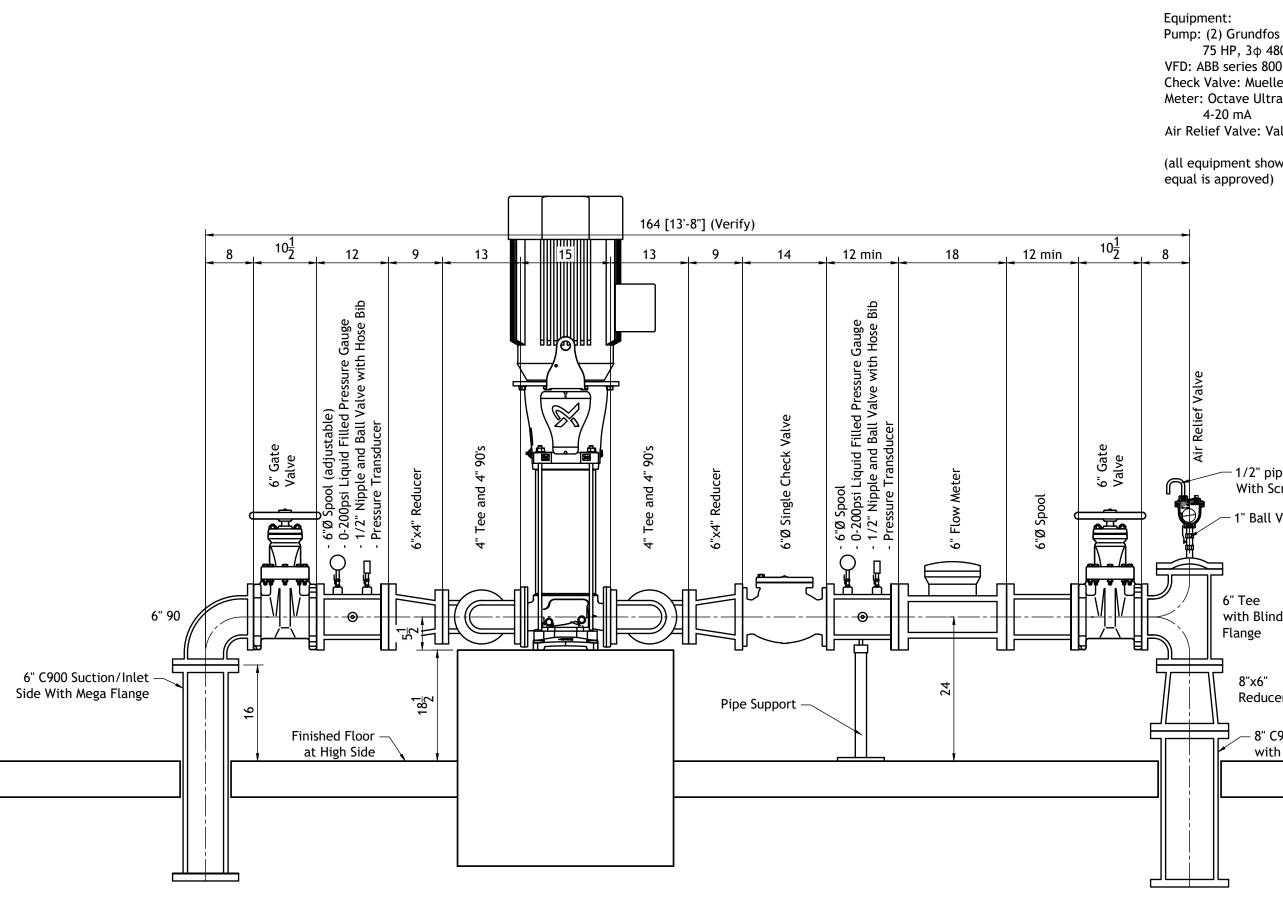
- Provide 1" Threadolets welded to spools for gauges and testing ports with appropriate sized inserts.
  All necessary fittings, bolts, gaskets, adjustments, etc. necessary for completion of the project not
- specifically called out are considered incidental to the project.
- Spools called out as adjustable shall be FLxPE with Mega Flange to be field cut to length.





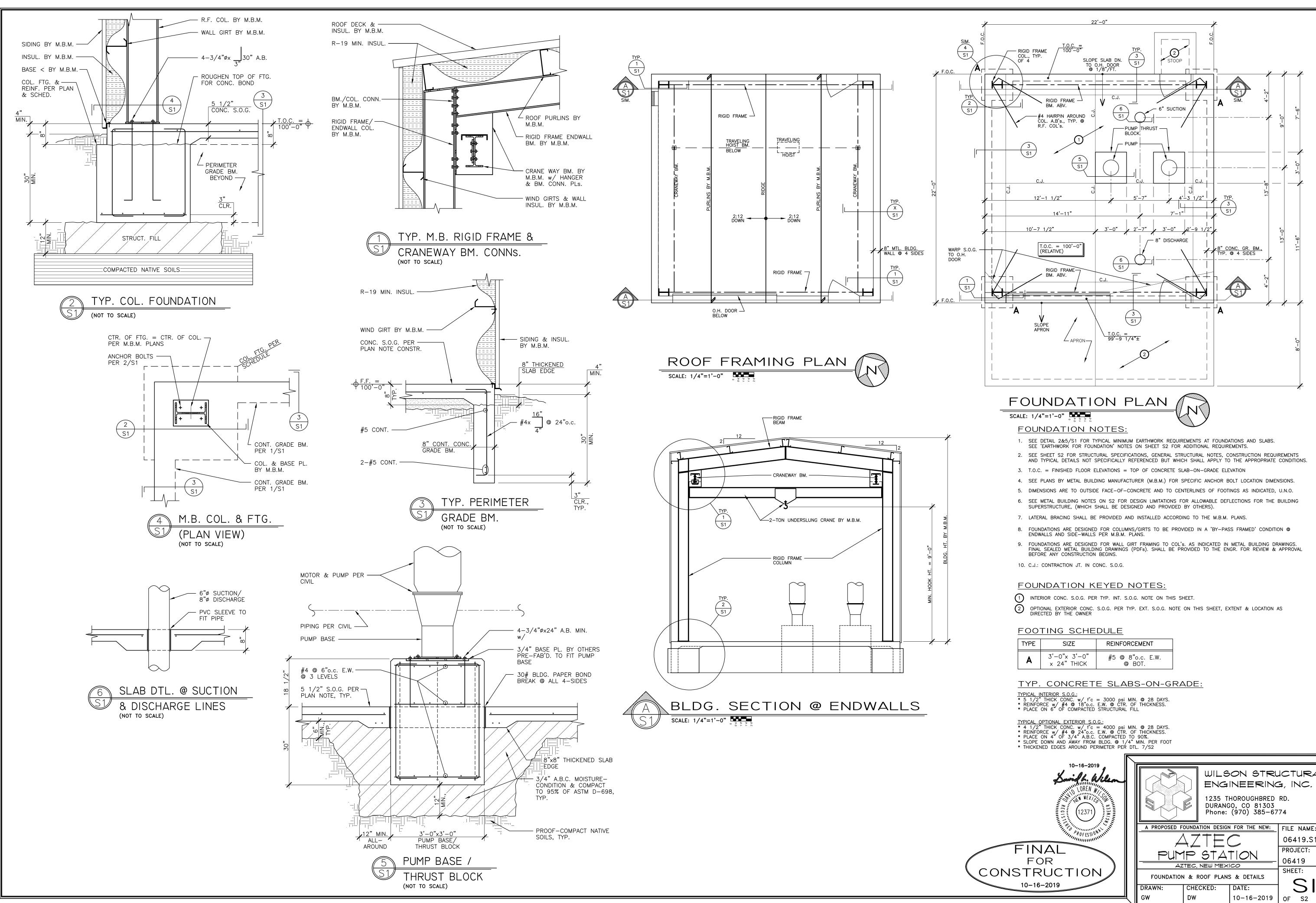
3-1



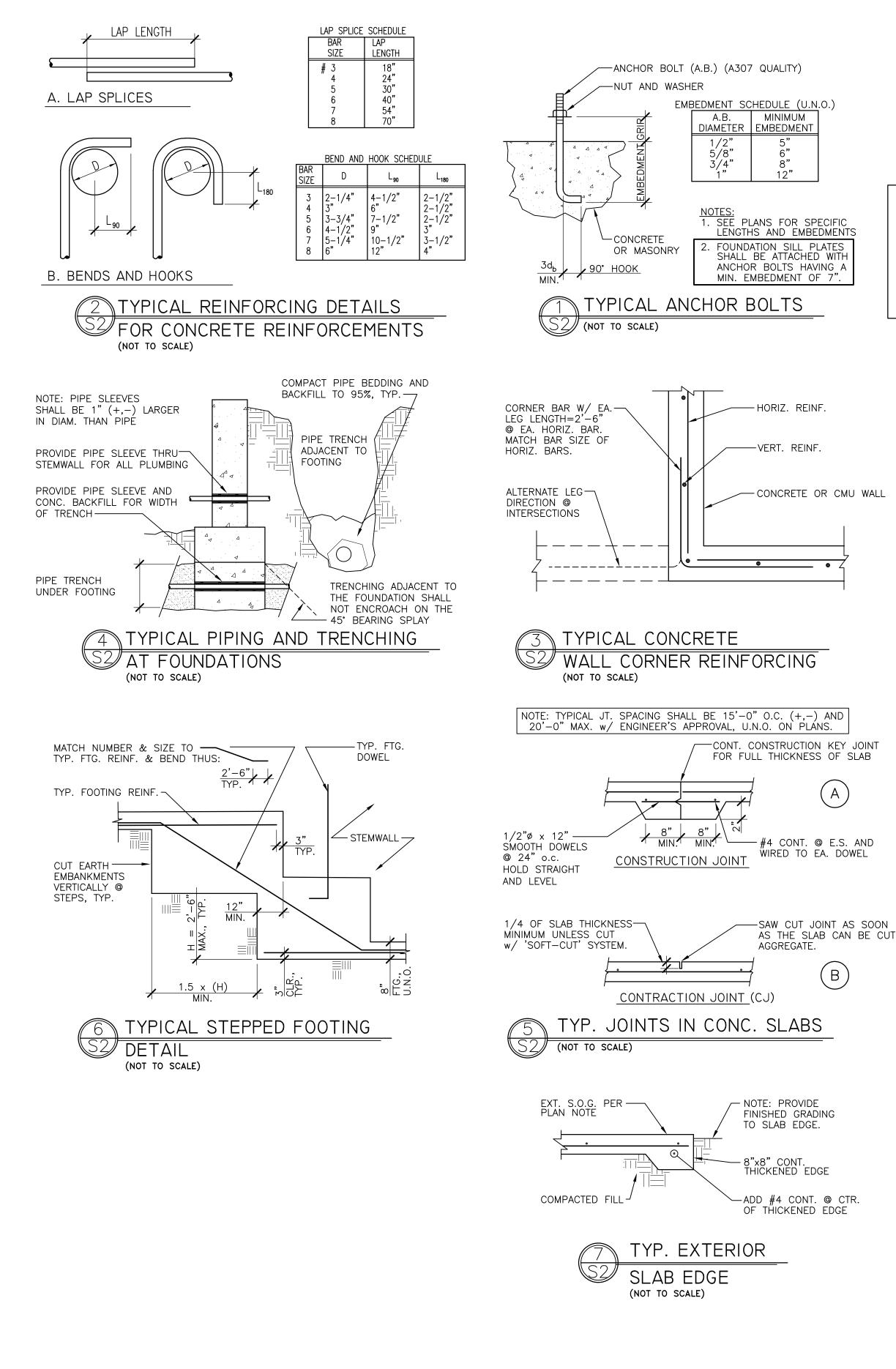


- Note:
  All Fittings shall be AWWA
  Provide 1" Threadolets well
  All necessary fittings, bolt specifically called out are
  Spools called out as adjust

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		Revision Log       1     9/20/17       2     0.26.17	s/ 20/ 17 FUMFRICUSE 
		Owner:	City of Aztec
fos CR 95-5-1A-G-A-E-HQQE 480V 800 eller A-2600-6-01B1 ltrasonic Epoxy Coated DI Val-Matic 15, 1" hown is expected unless d)		Project:	EAST AZTEC PUMP STATION
piping Screen III Valve lind ," ucer " C900 Discharge Pipe rith Mega Flange		Sheet Description:	PUMP HOUSE PIPING LAYOUT - SECTION VIEW
		CHC EN	ATTON HARRON WMEXICO 14238 14238 14238 PROFESSIONAL
/WA C110 PC 250 with Flanged Ends. welded to spools for gauges and tes bolts, gaskets, adjustments, etc. ne are considered incidental to the pro Ijustable shall be FLxPE with Mega Fl	sting ports with appropriate sized inserts. cessary for completion of the project not oject.	D 97  Pr	Valley Court urango, CO 70-387-8765 roject Date: 12/18/19 oj: 19003 <b>3-2</b>



WILSON STRUCTURAL A PROPOSED FOUNDATION DESIGN FOR THE NEW: FILE NAME: 06419.S1



**RECOMMENDED OBSERVATIONS** 

- 1. The agreement for the design of these structural plans does not include a fee for construction observation or inspections of any kind to verify compliance. However, it is recommended that the owner/contractor contract with the Engineer or other qualified third party observer to make the
- following observations. 2. Exposed native bearing soils shall be observed and approved by a Soils Engineer before placing structural fill or forming for concrete. 3. Material for structural backfill shall be observed and approved by a Soils Engineer before use.
- Structural backfill placement and compaction shall be observed, tested, and approved by a Soils Engineer before placing foundations.
- 4. Concrete reinforcing and formwork shall be observed and approved by the Engineer before placing concrete. 5. The metal building components shall be observed and approved relative to materials and
- connections by a representative approved by the Metal Building Manufacturer.
- 6. Contractor shall provide 24 hour notice for observations.

### <u>NOTICE</u>:

ABBREVIATIONS

A.B. = anchor bolt

AB = post above

ABV. = above

ADJ = adjacent

AGG = aggregate

B.B. = bond beam

or = backfill

BLDG = building

BLKG. = blocking

BTWN = betweer B.U. = built-up

CJ = construction joint or,

= ceiling joist

CLG. = ceiling

COL. = column

CTR. = center

DBL.= double

DIA. = diameter

DL = dead load

DWG. = drawing DWL. = dowel

EE = each end

E.F. = each face

E.J. = expansion joint

ENGR. = engineer

DTL. = detail

EA = each

CTR'D = centered

CONC. = concrete

CONN. = connection

CONT. = continuous

CONTR. = contractor

= contraction joint or

CMU = concrete masonry unit

DAS = deformed anchor stud

D.F. = Douglas Fir - Larch

BLK = block

BM = beam

BRG = bearing

ARCHT = architect

A.A. = Adhesive anchor

ABC = aggregate base course

B.F. = bottom of footing elev.,

These plans by Wilson Structural Engineering, Inc. are <u>only of the foundation design,</u> The Metal Building shall be designed and provided by others. No check or warranty will be offered or implied by Wilson Structural Engineering, Inc. in any regard to the Metal Building superstructure. These plans indicate the appropriate minimum loads and other minimum requirements for which the building shall be designed and for which the foundation is designed. However, it is the responsibility of the Contractor ordering the building and the Metal Building Manufacturer designing and providing the building to insure that all the proper loads and combination of loads are accounted for in the actual building design. The Metal Building Manufacturer shall provide a separate engineered and stamped set of plans and calculations for the building superstructure.

> EQ. = equal E.S. = each side E.W. = each way EXP = expansion EXT = exterior FDN = foundation FF = finished floor elevation F.J. = floor joist FG = finished grade elevation F.O. = face of FOC = face of concrete FOS = face of stud FOM = face of masonry FRMG = framing F.S. = far side FTG. = footing GA = gage GALV = galvanized G.B. = Grade Beam GL = glue laminated beam GR. = grade HAS = headed anchor stud HDR. = header H.F. = Hem-fir HORIZ = horizontal H.S. = high strength INFO = information INT = interior JST. = joist JT. = joint KS = king stud LD = load LL = live load LLH = long leg horizontal LLV = long leg vertical LVL = laminated veneer lumber MAS = masonrv MAT = material MAX = maximum M.B.M. = metal building mfr. Mfr. = manufacturer MIN = minimum

> > NA = not applicable

NLG = nailing N.S. = near side NTS = not to scale O/ = over O.C. = on center O.H. = opposite hand OPNG. = opening OSB = oriented strand board P/C = precast PL = plate PLYWD = plywood PNL = panel P.T. = pressure treated REINF. = reinforcing R.J. = roof joist SH/ = Simpson hardware SHT. = sheet SHTG. = sheathing SIM = similar SPA = space STL = steel SL = snow load S.O.G. = slab-on-grade S.S. = steel stud SW = shearwall T.B. = top of beam T.J. = top of joist T.L. = top of ledger T.M. = top of masonry TN = toe nail T.O. = top of T.O.C. = top of concrete T.O.S. = top of steel T.O.SHTG. = top of sheathing T.O.W. = top of wall T.P. = top of parapet T. PL = top of plate T.R. = threaded rod TS = trim studs or, = tube steel TYP = typical UNO = unless noted otherwise VERT = vertical WWF = welded wire fabric

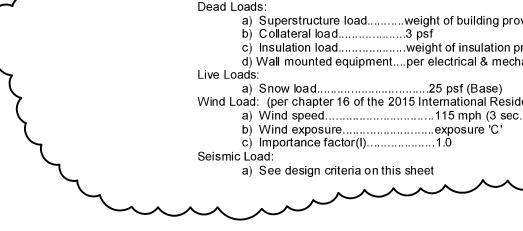
### CONCRETE AND REINFORCING

- 1. Concrete shall be made from an approved commercial mix of aggregates, pote Portland Cement (type II) meeting ASTM C150 specifications. Admixtures n
- ASTM requirements may be used when approved by the Engineer. 2. The Concrete shall have a minimum of 517 lb. of Portland Cement per yard ar water to cementitious material ratio of 0.52. Fly ash meeting ASTM specifica substituted for up to 15% of the Portland Cement in the mix designs at ratio of 1.0 lb. of Portland Cement. The Concrete Mix design shall be provided to the approval.
- 3. Concrete shall achieve the following minimum compressive strengths (f'c) in footings, stemwalls. . 3000 psi interior slabs on grade... ..3000 psi exterior slabs on grade. ..4000 psi 4. Provide the following minimum thickness of concrete coverage around reinforce footings:
  - to earth. to formed surfaces.... slabs: to earth.. stemwalls: 3/4" interior face.
  - exterior face .. ..1 1/2" face exposed to earth... .....2"
- Maximum allowable slump of concrete at the point of placement shall be 4" un
- approved otherwise by the Engineer and designed accordingly. All concrete (including slabs-on-grade) shall be thoroughly consolidated by med
- Reinforcing bars shall conform to ASTM A615. Reinforcing to be welded shall A706
- #3 to #5.....grade 40(U.N.O.)
- #6 to #11.....grade 60 8. All reinforcing, anchorages and embedments shall be securely wired in place placement.
- 9. Reinforcing shall not be heated to be bent.
- 10. See typical details for reinforcing bending and splicing requirements. 11. Reinforcing shall be held above earth on concrete adobes, chairs or by suspen
- the earth shall not be used to support reinforcing 12. All openings in slabs or walls shall be reinforced with a minimum of 2-#5 on 4 s
- minimum beyond opening corners. 13. Chamfer all exposed concrete edges unless detailed or noted otherwise.
- 14. Openings in concrete shall be formed, cored or sawcut. Chipping and breaking unless specifically approved. 15. Concrete exposed to freezing en vironment either during construction or in place
- entrained. Air entrainment of the mix shall be 5% minimum to 8% maximum b 16. Typical slab on grade: See sheet S1 for different slabs and their locations.
- 17. Concrete Curing: Final concrete quality is highly dependant on curing. Inadec excessive shrinkage, cracking, low strength, slab curling and other detrimental shall be cured as follows: slabs shall be moist cured with water and an imperr water saturated cover. No portion of the slab shall be allowed to dry for 7 days be moist cured or cured with a curing compound conforming to ASTM C309 ap after form work is removed. Special protection measures shall be provided du conditions to prevent rapid drying before curing procedures can begin. Inadeq concrete will be adequate cause for rejection
- 18. Cold weather protection: Concrete shall not be allowed to freeze. Concrete ter maintained above 40 degrees for the first 7 days. The criteria presented in these specifications are minimum requirements for the concrete mix design. These adequate in all conditions of cold weather concreting. It shall be the responsibil Contractor to provide additional means to insure the concrete doesn't freeze, re degrees for a minimum of 7 days, achieves the minimum required strength and servicable. Additional measures which may used include, but are not limited to protection blankets, tenting and heating, accelerating admixtures, and addition
- the mix design above the minimum requirement 19. Concrete shall be tested as follows: 3 standard ASTM Concrete test cylinders 75 cubic yards of placed concrete with a minimum of 3 cylinders cast for each c placed. One slump and one air entrainment test shall be made for each set of o engineer shall be notified immediately of failing tests. Deviations shall not be m without the consent of the Engineer.

### METAL BUILDING

- 1. All dimensions for footing locations, anchors bolts, and all other entities of the shown relative to the metal building connections shall be cross-checked and ve
- shop drawings by the Metal Building Manufacturer before excavation, earthwork 2. If the Metal Building Manufacturer wishes to use an alternate framing layout to the assumed and designed for in this set of structural plans, the metal building desi
- notify Wilson Structural Engineering before submitting the shop drawings and o Otherwise, the shop drawings will be rejected. 3. All structural components and the lateral resisting systems shall be designed fo
- and criteria described in the contract documents 4. Concentrated loads such as mechanical units and any others which are not spe structural plans but are supported by the metal building structure shall be accou of the supporting members. The Owner shall coordinate the location and weig
- Building Manufacturer (M.B.M.). 5. The metal building design shall be done under the direct supervision of an Eng the design of metal buildings for at least 5 years. The Engineer shall be license the building is to be erected and shall stamp and sign the calculations, shop dra drawings. Stamped copies shall be submitted to the Architect for approval befor according to the specification requirements.
- 6. Structural steel shall be detailed, fabricated, and erected in accordance with the construction, the latest edition, using either the ASD or LFRD design. The meta also be in conformance with the "Metal Building System Manual" by the Metal E Association. The most stringent criteria for design shall apply when there is diff two standards.
- 7. Minimum anchor bolts sizes shall be determined by the M.B.M. and shown in th based on the design requirements for the superstructure. Anchor bolts of great required governed by the foundation design. The contractor shall provide the la the design.
- 8. All required field modifications required shall be brought to the attention of the Repairs shall be approved. Specific repair details may be required. The expen and detailing shall be borne by the Contractor.
- 9. Reactions of all metal building components directly supported by the foundation the calculations for approval and comparison to design assumptions. The reac loads from each individual load case with a description of case. 10. Deflection of flexural members due to gravity loads shall not exceed the span
- Deflection of the lateral system shall not exceed 1.0" under wind or seismic load otherwise by the Architect or Engineer.
- 11. The deflection limits of 10, above for gravity loads are for total dead load plus s 12. The M.B.M. shall determine, design, and locate the buildings lateral load resisting system shall limit movements to those described in 8. above. Components sha windows, doors or other architectural features. All Lateral shears, uplift loads, submitted with their locations to the Engineer for approval before fabrication. A design because of the system requirements or loads in excess of the foundation be paid for by the contractor.

### Design loads for metal building:





								I
table water and neeting appropriate	1.	In the absence of specif any questions remain ca					or similar details for	information. If
nd have a maximum	2.	The plans and details in Contractor shall notify th The Engineer shall also	ne E	ngineer immediatel	y if con	ditions are fo	und different from th	ose assumed.
ations maybe f 1.1 lb. of fly ash for e Engineer for	3.	case detail changes ma The plans shall not be s	iy be	e required before wo	ork can	proceed.	<b>U</b>	
n 28 days:		get clarification from the plans. All layout dimension	e Eng	gineer. Cross-chec s shall be closed fro	k all dir m both	mensions wit directions.	h the Metal Building I	Manufacturers
		All openings or modifica Engineer before doing to The Contractor shall rep	he v	vork.			ai pians snail be vern	ied with the
cement:		The Contractor shall no and specifications ). Cla	tify t arific	the Engineer of any cations shall be rece	discrep eived fro	oancies found om the Engin	eer before proceedir	
	7.	work. The most restrict All mechanical unit weig	phts	shall be verified wit	h loads	shown on th	e structural drawings	
	8.	Engineer, if weights are structural drawings. These plans represent a						
		to account for all constru- safety considerations, C	uctic )SH	on conditions, loads A regulations, and a	, seque all other	ences, tempo applicable s	rary bracing requiren tandards.	nents, all
nless specifically	9.	Construction shall follow responsible for uncorrec Engineer will be availab	cted	errors or deviations	s from t	he plans with	out the Engineers ap	proval. The
echanical vibration.	10.	contract documents sha Each sub-contractor sha	all be all in	e paid for by the Con respect the condition	ntractor s and w	<sup>.</sup> . /ork in place	before they begin. E	rrors,
I conform to ASTM	11	problems and unaccept the new work shall be in When shon drawings ar	nterp	preted as acceptance	e of the	e previous wo	ork and conditions.	
during concrete	11.	When shop drawings ar Contractor shall allow 2 are provided in large for	wee	eks for the review pe	eriod. \	Nhen shop d	rawings and product	information
		with 3 sets of bluelines the Contractor to allow for h	for n	nark-ups and stamp	oing. Th	ne reproducik	oles will be returned t	o the
nsion. Bars driven into		SIGN CRITERIA						$\frown$
sides extending 2'-0"	1.			For foundation d				$\sim$
ng out shall not be done		Roof Snow Load = Applicable Building Cod						_ کر
ce shall be air	3.	Wind Load: a) Basic wind spee b) Exposure catego	d∧. Drv.		bt (Sse	engust/	$\sim$	
based on volume. quate curing can cause	4.	c) Importance facto Seismic Load:	or(Iw	<i>v</i> )1.0				
l effects. Concrete meable barrier or with a		a) Use Group b) Site Class c) Short Period Spe			D	% п		
s. Other concrete shall pplied immediately	5.	d) Importance factor Earthwork per 'Earthwork	or(le	e)	1.0	-		
uring windy and or hot quately cured								
mperature shall be ese notes and the		ECIALTY CONNECTION Expansion bolts, adhesi					(HAS), self-tanning	screws and
minimums will not be ility of the General emains above 40	•.	other proprietary devices use information shall be	s sh	all have ICBO appr	ovals.	These appro	vals along with load	capacities and
emains above 40 d remains durable and b: Insulation and		proposed. Devices shall be used in Headed anchor studs sh	hall b	be welded all aroun	d the ba	ase of the stu	id with a 5/16" fillet ເ	
of Portland Cement in	4.	otherwise. Stud guns m Typical acceptable anch Expansion Bolts:	ors	(when called out in	plans)	unless noted	velop the strength of otherwise: nimum embedment o	
shall be made for every day that concrete is cylinders made. The		Shotpins: 0.145" di and a mi	iame nim	eter minimum by Hi um safe working loa	lti or Ra ad in sh	am set with 1" hear of 200 lb	minimum embedme	
nade from this schedule		Headed Anchor St Adhesive Anchors Self-Tapping Screv	: Hi	Iti HIT or HVA syste				
	EA							
foundation system		RTHWORK FOR FOUN			06.2 of	the 2015 Inte	ernational Building C	ode.
erified with the final k or forming is begun.		Allowable s @ 3'-0'' mir	oil b nimu	bearing pressure on Im depth below low	native est adja	soils: acent ext. gra	de = <u>1500 psf</u>	
that which has been sign engineer shall calculations.	2.	All column foundations Slabs shall bear on a st fill shall be compacted t	ruct	ural backfill pad pla	ced ove	er proof-com	pacted native soils.	The structural
or the loads, factors,	3.	for specifics. Unless noted otherwise						
pecifically shown in the punted for in the design	4.	minimum below original All earthwork cuts and f	l nat ïlls s	tive grade unless ap shall be made in lev	proved el benc	l otherwise. ches.		
ghts with the Metal	5.	All structural backfill ma approved otherwise, im material meeting the fol	port	ed structural (or en	gineere	d) backfill sh	all be granular non-e	xpansive
gineer experienced in ed in the state where		shall pass a 2 inch scre gravel. Some site mate	en,	and the material sh	all be w	/ell graded u	nless it is sand or 3/4	inch washed
awings and erection ore production	6.	Structural backfill shall Lifts shall not exceed 6'						
e AISC manual for steel tal building design shall	7. 8.	the machinery used. Backfill shall be uniform Unless noted otherwise						
Building Manufacturer's fferences between the	0.	as determined by ASTM maximum density per A	/I me	ethod D-1557. All c	ompact	tion densities	noted in the plans a	re relative to
he erection drawings iter size may be	9.	otherwise. Foundations shall be co						
argest size governing Architect and Engineer.	10.	in secure formwork if th Reinforcement for conc Reinforcement shall not	rete	foundations shall b	e supp	orted 3" mini	mum from earth on a	II sides.
nse of the repair design	11.	approved chairs or adol Foundations shall not b	bes e pla	or suspended from aced on frozen eart	above. h or un	stable condit	ions. Frozen earth s	hall be thawed
n shall be reported in ctions shall include the		and re-compacted before as directed by the Soils	Eng	gineer and replaced	with co	ompacted en		
divided by 240, (L/240). ads unless approved	12.	fabric shall be provided Water shall not be allow provide de-watering.					vations. The Contrac	ctor shall
snow load. ing system. The		The Contractor shall be Exterior grades adjacer	nt str	ructures without pay	/ing sha	all slope awa	y from the structure of	
all not interfere with and moments shall be	45	a minimum slope of 109 water courses. Provide Planters shall not be ad	swa	ales where necessa	ary. No	ponding of v	vater shall be allowe	
Any foundation re- on design capacity shall		Planters shall not be ad Roof drains shall not en leaders, concrete swale	npty	onto exterior grade	e within	five feet of th	ne foundations. Spla	
v v		least 5'-0" from the strue Deep rooted vegetation	cture sha	e. all not be placed clo	ser tha	n 8-0" to the	structure.	
ovided by the M.B.M.	<b>)</b> <sup>18.</sup>	Backfill shall be tested f tested. Failing tests sha provided for every 32 ct	all b	e paid for by the ea	rthwork	contractor.	One compaction tes	t shall be
provided by the M.B.M. chanical plans	)	all foundations where th made for every 50 linea	ne na	ative earth is scarifi	ed and	re-compacte	d. One compaction	test shall be
idential Code)	)	the Engineer.						
ec. gust)	/	10-16-2019						
کر ا	S	if h. Willen	,		$\sum_{n}$		ON STRU INEERING	
	in the second se	LOREN WI					HOROUGHBRED	
	REGI	(12371)				DURANG	60, CO 81303 (970) 385–67	
	515.	12371) <i>PROFESSION</i>		A PROPOSED F	OUNDA		FOR THE NEW:	FILE NAME:
	<i>"</i> 11,	PROFESSIONA MININ			$\overline{17}$	· <b>†=</b> (		06419.NOT
FINA					₹≠ 1₽		TION	PROJECT:
FOR ONSTRU		, TIONI )∥				NEW MEX		06419 SHEET:
JNS I RU 10-16-20'				AND	) TYPI	ICAL DETA		STEELS
				DRAWN: TS	CHE DW	CKED:	DATE: 10-16-2019	OF S2

GENERAL NOTES

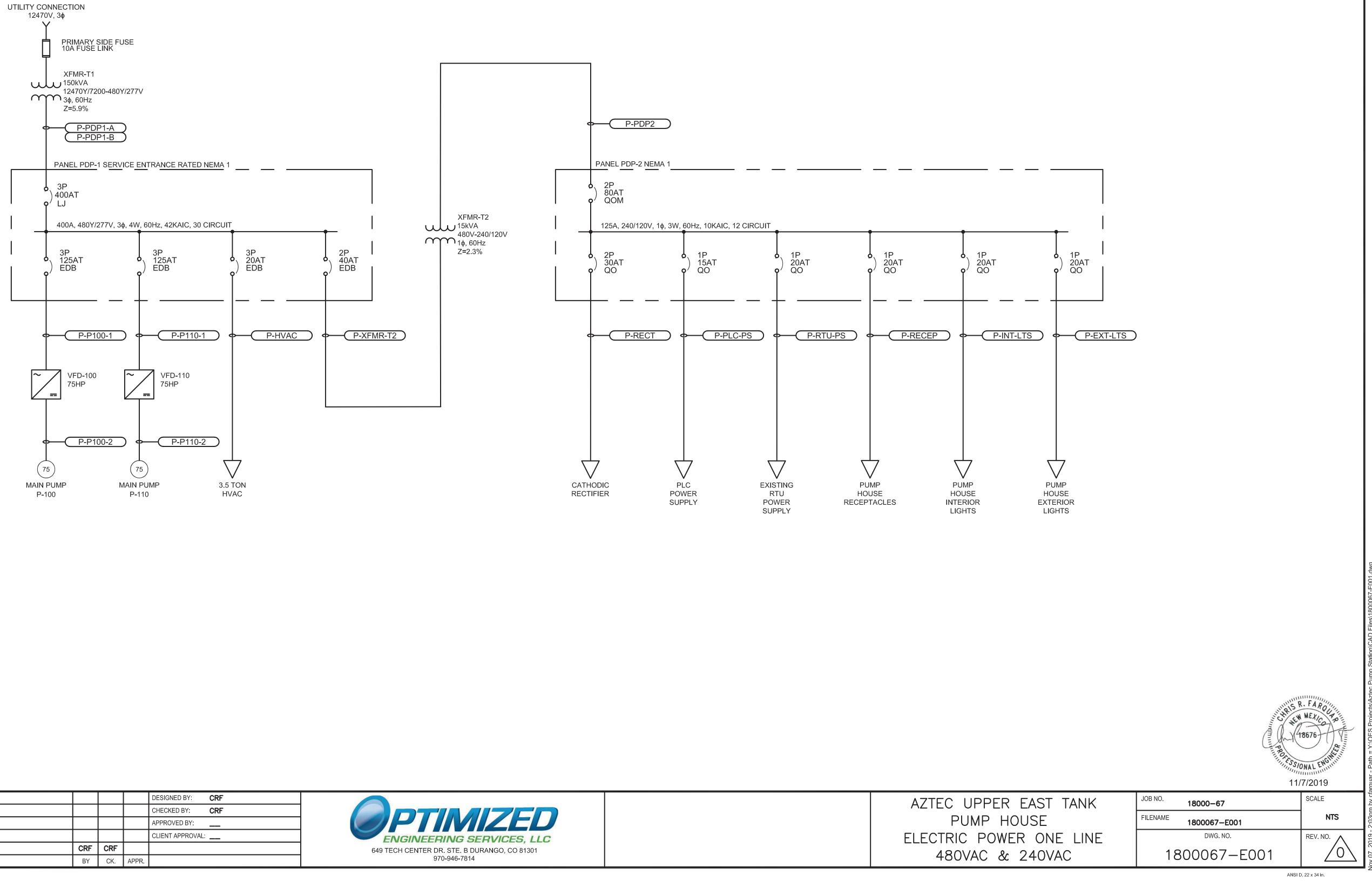
DRAWING LIST												
DRAWING NUMBER	REV	DATE	DATE DESCRIPTION									
1800067-E000	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	SHEET TITLE & INDEX								
1800067-E001	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC POWER ONE LINE 480VAC & 240VAC								
1800067-E002	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC PANEL SCHEDULES 480VAC & 240VAC								
1800067-E003	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC MOTOR SCHEMATIC 480VAC PUMP P-100								
1800067-E004	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC MOTOR SCHEMATIC 480VAC PUMP P-110								
1800067-E005	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	EQUIPMENT LAYOUT & CONDUIT ROUTING PLAN								
1800067-E006	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	INTERIOR ELEVATION & BILL OF MATERIALS								
1800067-E007	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	INTERIOR ELEVATION & BILL OF MATERIALS								
1800067-E008	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	LIGHTING & POWER PLAN								
1800067-E009	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC CONDUIT & CABLE SCHEDULE								
1800067-E010	0	11/7/2019	AZTEC UPPER EAST TANK PUMP HOUSE	ELECTRIC GROUNDING PLAN								

						DESIGNED BY: CRF
						CHECKED BY: CRF
						APPROVED BY:
						CLIENT APPROVAL:
0	11/7/2019	ISSUED FOR CONSTRUCTION	CRF	CRF		
NO	DATE	REVISION	BY	CK.	APPR.	

# CITY OF AZTEC UPPER EAST TANK PUMP HOUSE ELECTRICAL DESIGN DRAWING PACKAGE



C UPPER EAST TANK	JOB NO. <b>18000–67</b>	SCALE	
PUMP HOUSE	FILENAME 1800067-E000	NTS	0.50
EET TITLE & INDEX	DWG. NO.	REV. NO.	
	1800067-E000		00000



1.

						DESIGNED BY: CRF
						CHECKED BY: CRF
						APPROVED BY:
						CLIENT APPROVAL:
0	11/7/2019	ISSUED FOR CONSTRUCTION	CRF	CRF		
NO	DATE	REVISION	BY	CK.	APPR.	



PANEL	PDP-1				400		BU	S		480	1	277		.TS	S	URFACE	MOUNTED	
LOCATION	PUMP H	OUSE			400		MA	IN		3	1	4	_ <b>PH</b> /	WIRE		42,000 A	BRACING	
EQUIPMENT DESCRIPTION	PH A (VA)	PH B (VA)	PH C (VA)	TYPE *	COUNT	BREAKER	POLES	CIR #	CIR #	POLES	BREAKER	COUNT	ТҮРЕ *	PH A (VA)	PH B (VA)	PH C (VA)		
BOTTOM FEED THRU					1	400	3	FT	FT								BLANK TOP FEED THRU	
POSITION MAIN BRKR					1	400	3	FT	FT								POSITION	
					1	400	3	FT	FT									
	26,592			M1	1	125	3	1	2	3	20	1	Μ	4,432				
75 HP WATER PUMP P-100		26,592		M1	1	125	3	3	4	3	20	1	M		4,432		3.5 TON HVAC	
			26,592		1	125	3	5	6	3	20	1	M			4,432		
	26,592			M	1	125	3	7	8								BLANK	
75 HP WATER PUMP P-110		26,592		M	1	125	3	9	10									
	4.0.40		26,592	M	1	125	3	11	12									
15 KVA XFMR T-2 BLANK	4,040				1	40	2	13	14									
		3,020		L	1	40	2	15	16								BLANK	
BLANK								17	18									
BLANK								19	20								BLANK	
BLAINK								21 23	22									
								23 25	24 26									
BLANK								25 27	28								BLANK	
BLAINK									30									
* LOAD TYPE	CODE	DEMAND						23	00	<u> </u>				100%				
	-	100%	<b>PH A</b> 4,040		<b>H B</b> 020	PH C		-					BUS:	100% 50%				
RECEPTACLES	L R	100%	4,040 0	) 3,U										NONE				
MISC	R O	100%	0										RCE:					
	M1	100 %	26,592		5 592	26,5						500						
MOTORS	M	100 %	20,092 31,024		024	31,0					TOT	ΔΙΙά	OAD:	179.9	KVΔ			
STANDBY	S	0%	01,024	01,   (										170.0	•••			
HEATERS	н	100%	0								TOT		OAD:	217	AMPS			
	ĸ	100%	0								. • 1/			<u> </u>	/ <b>V</b>			
KITCHEN							-											

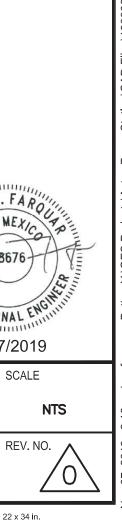
NOTES:

1.

						DESIGNED BY: CRF
						CHECKED BY: CRF
						APPROVED BY:
						CLIENT APPROVAL:
0	11/7/2019	ISSUED FOR CONSTRUCTION	CRF	CRF		
NO	DATE	REVISION	BY	CK.	APPR.	

PANEL	125 AMP BUS						240 / 120 VOLTS			rs	SURFACE MOUNTED					
LOCATION	PUMP H	OUSE			80		P MA	IN		1	1	3	_ <b>PH / \</b>		10,000 A	BRACING
EQUIPMENT DESCRIPTION	PH A (VA)		PH B (VA)	TYPE *	COUNT	BREAKER	POLES	CIR #	CIR #	POLES	BREAKER	COUNT	TYPE *	PH A (VA)	PH B (VA)	EQUIPMENT DESCRIPTION
CATHODIC RECTIFIER	1	,920		L	1	30	2	1	2	1	30	1	L	600		P/H EXTERIOR LIGHTS
CATHODIC RECTIFIER			1,920	L	1	30	2	3	4	1	30	1	L		300	P/H INTERIOR LIGHTS
P/H RECEPTACLES	1	,200		R	1	20	1	5	6	1	20	1	L	800		PLC POWER SUPPLY
EXISTING RTU P/S			800	L	1	20	1	7	8							BLANK
BLANK								9	10							BLANK
BLANK								11	12							BLANK
* LOAD TYPE	CODE	DEMA				Pł	НB			N	IEUTI	RAL	BUS: ´	100%		
LONG CONTINOUS LOAD	L	100	% 3,320			3,0	020	1		(	GROL	JND	BUS: 5	50%		
RECEPTACLES	R	60%	% 720				0			SO. (	GROL	JND	BUS: 1	NONE		
MISC	0	100	% 0				0			FEE	DER	SOU	RCE:			
AIR HANDLING EQUIP	M1	80%	% 0				0									
MOTORS	Μ	100	% 0				0				ΤΟΤ		OAD:	7.1	KVA	
STANDBY	S	0%	6 0				0									
HEATERS	н	100	% 0				0				ΤΟΤ		OAD:	29	AMPS	
KITCHEN	κ	100	% 0				0									
TOTAL LOAD PER PHASE			4,040	1		3,0	020	1							PANEL:	PDP-2
·			·			•										



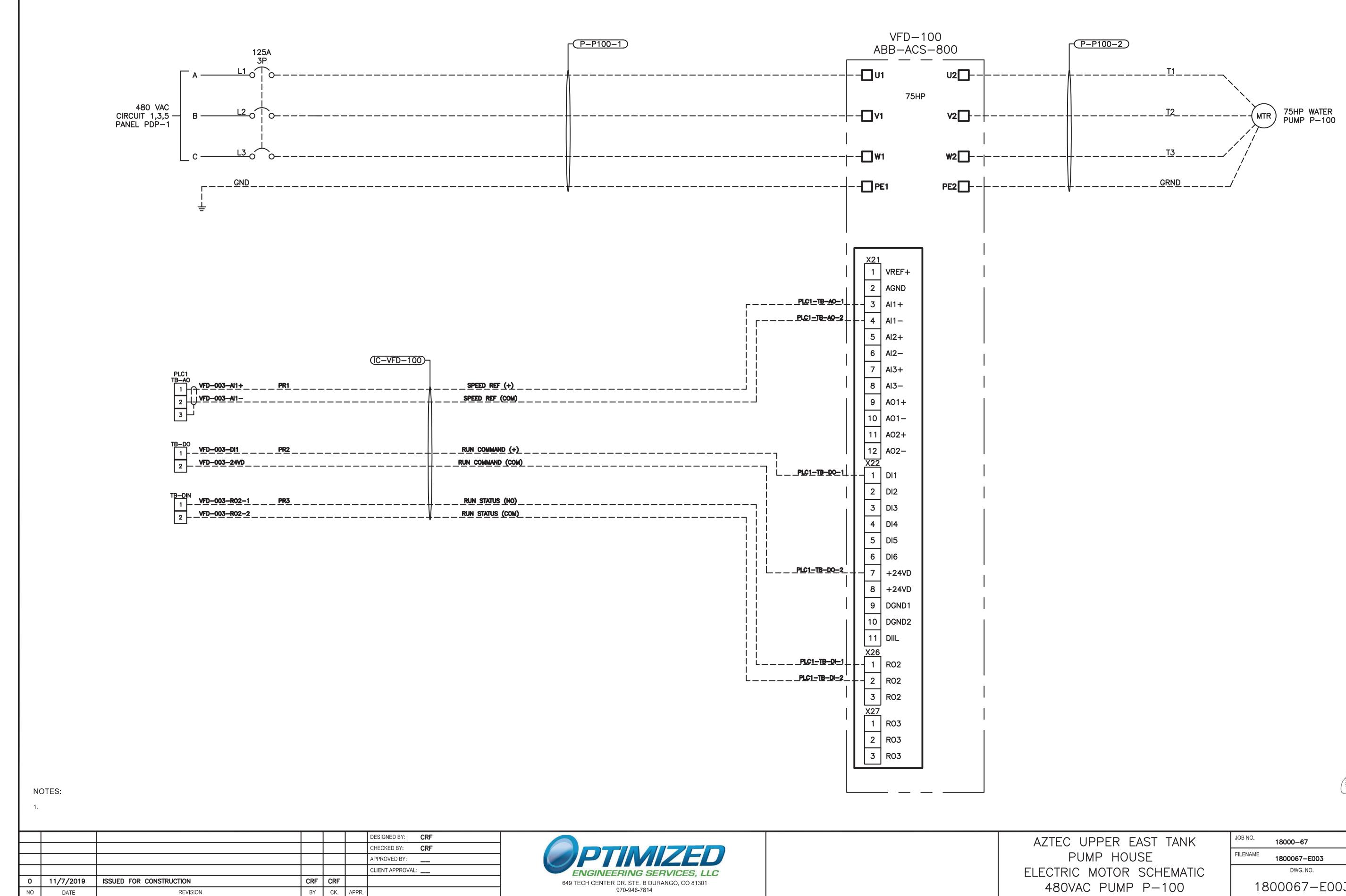


AZTEC UPPER EAST TANK PUMP HOUSE ELECTRIC PANEL SCHEDULES 480VAC & 240VAC

JOB NO.	18000-67						
FILENAME	1800067-E002						
	DWG. NO.						
1800067-E002							

11/7/2019

SCALE



480VAC PUMP P-100

NO.	18000-67	
NAME	1800067-E003	
	DWG. NO.	
18	300067-E003	

ANSI D, 22 x 34 in.

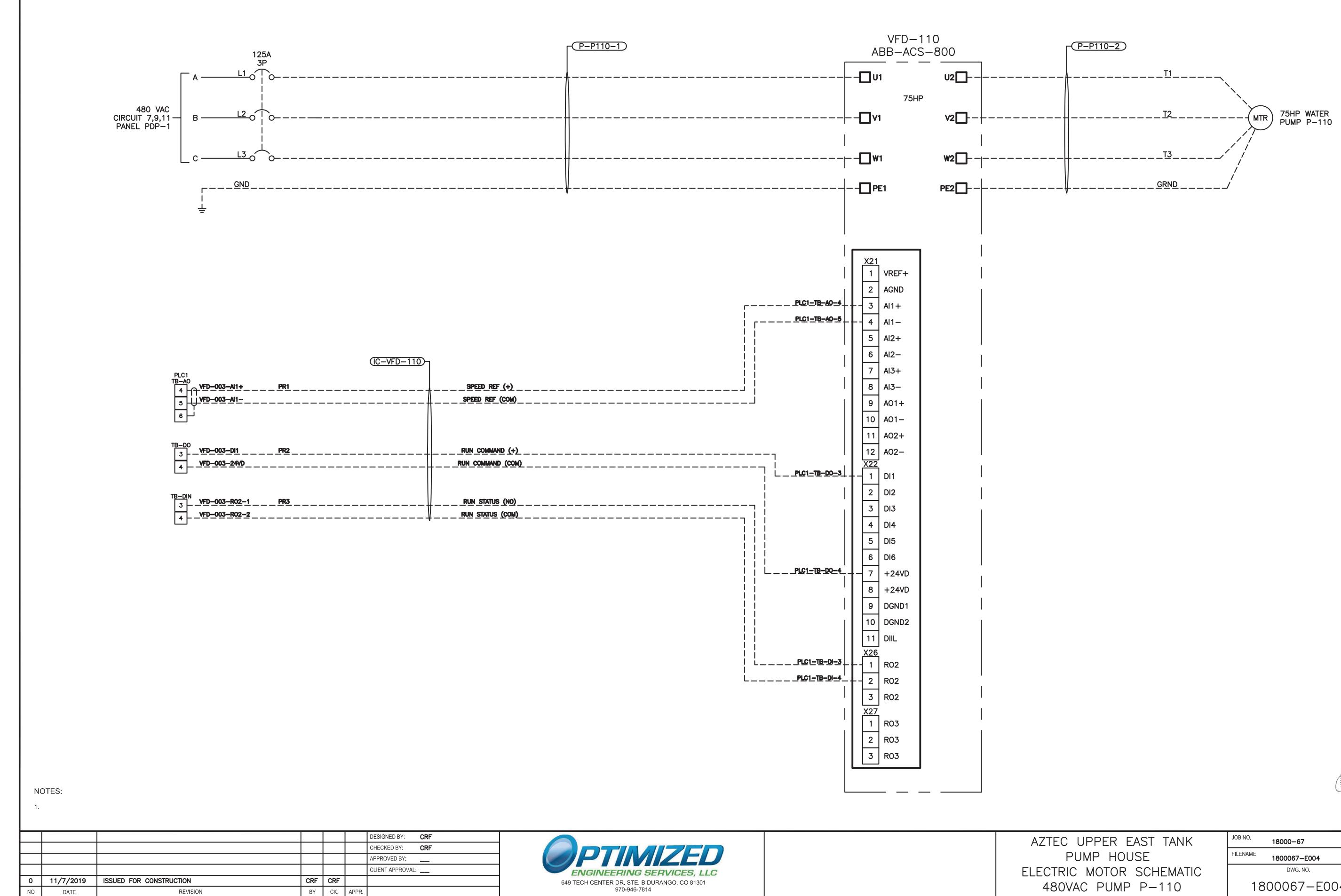
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11/7/2019

SCALE

NTS

REV. NO. 🔨





Ю.	18000-67	SCALE
AME	1800067-E004	NT
	DWG. NO.	REV. NO.
18	300067-E004	

ANSI D, 22 x 34 in.

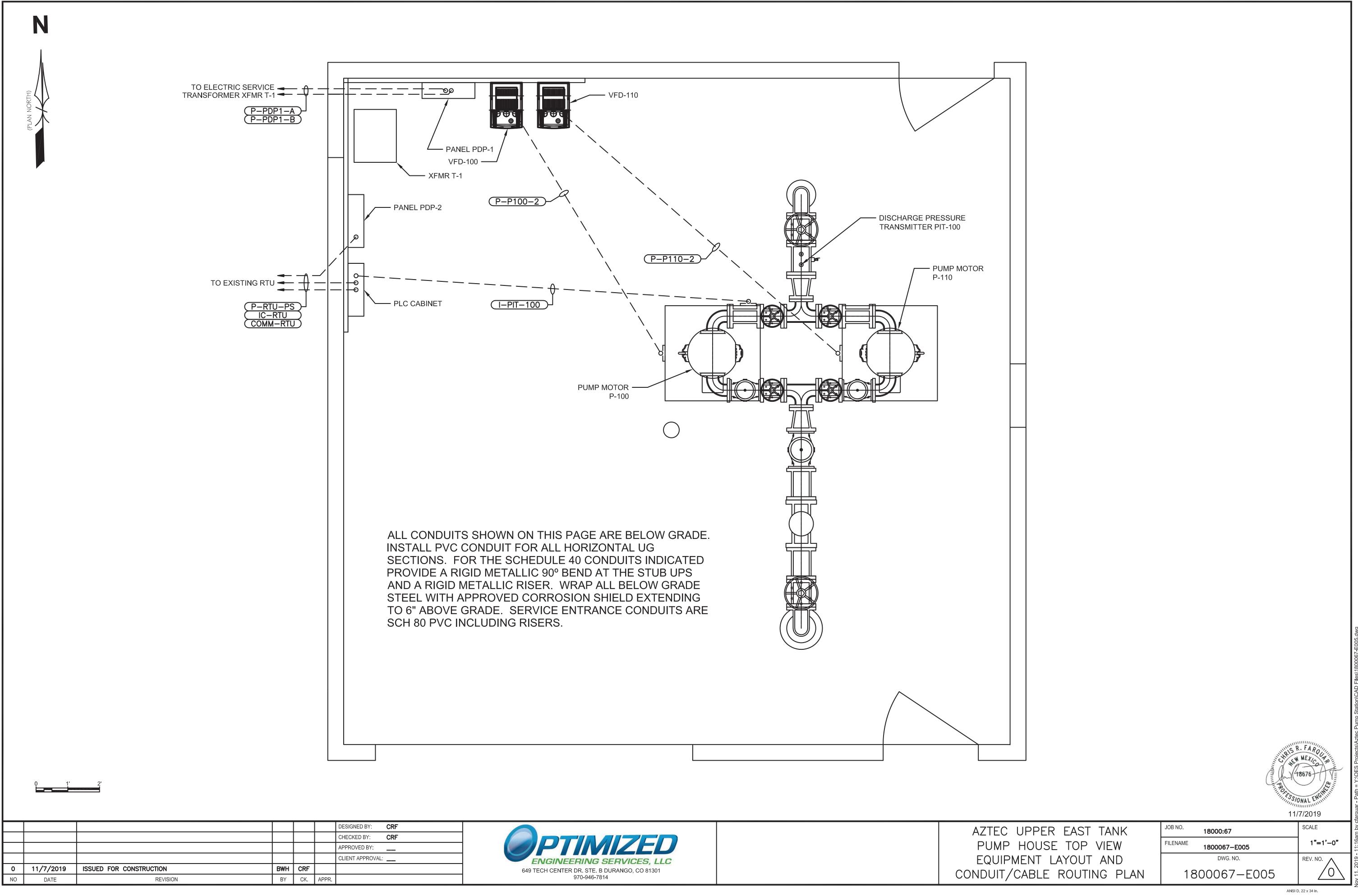
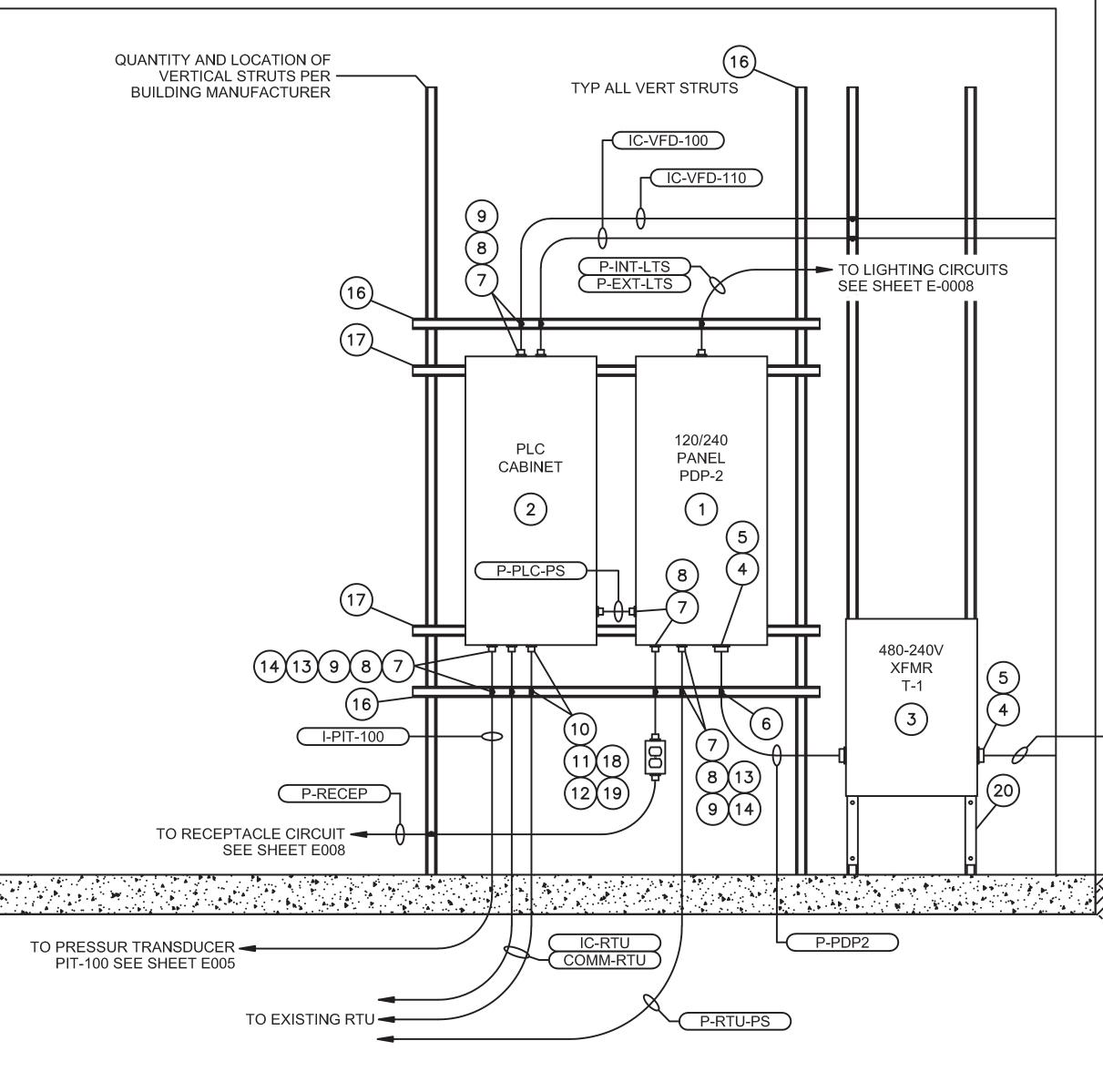


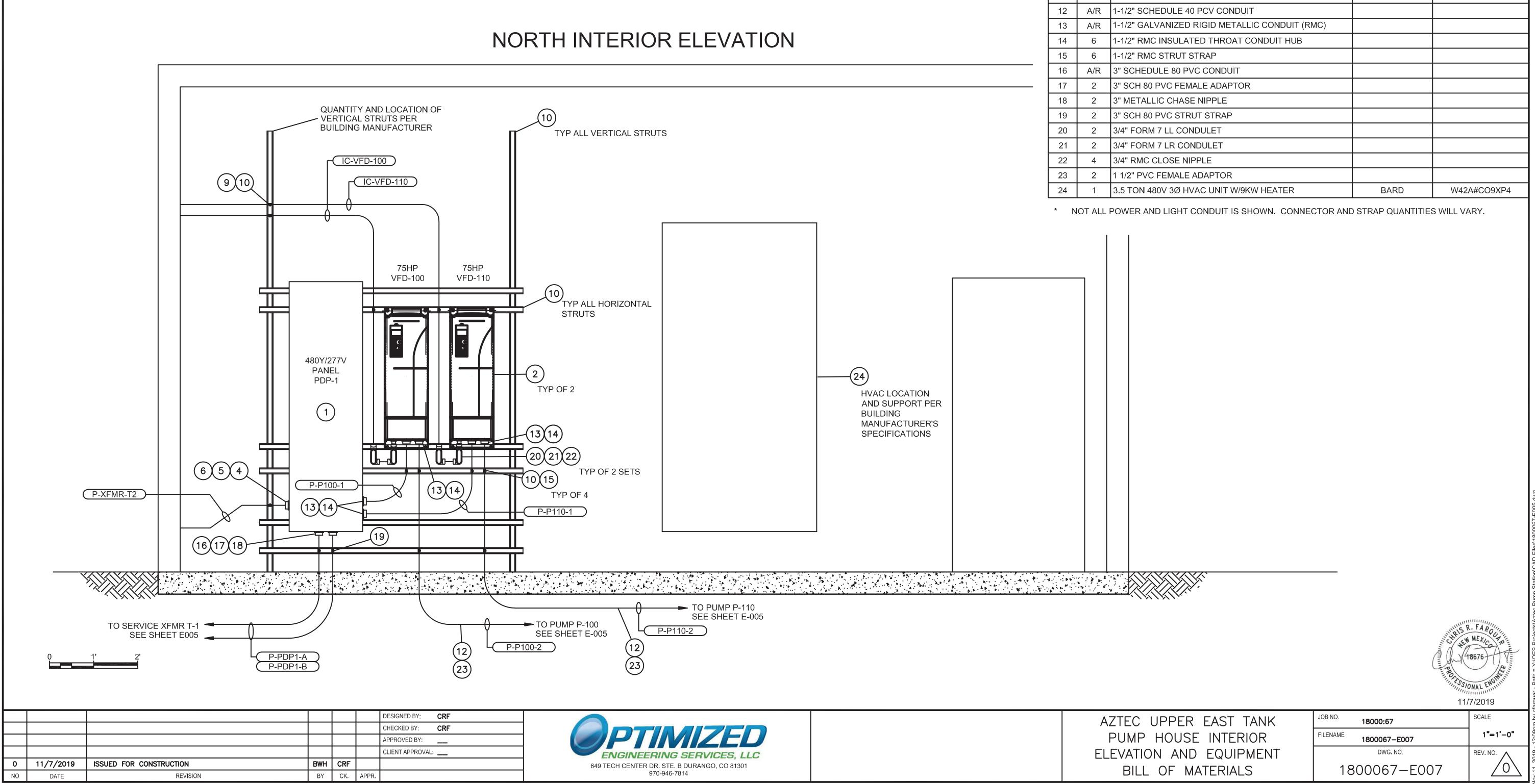
Image: 1Image:		QTY.	DESCRIPTION	MANU	FACTURER	PART
21VENDOR SUPPLIED PLC CABINET (SUPPLIED BY OTHERS)E3115KVA, 240/480 X 120/240VAC, DRY TYPE TRANSFORMERSQUARE DEE15S3H410 FT1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC)531" LFMC INSULATED THROAT CONNECTOR611" LFMC STRUT STRAP7A/R3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC)810"3/4" RMC INSULATED THROAT CONDUIT (RMC)98"3/4" RMC STRUT STRAP10A/R1" GALVANIZED RIGID METALLIC CONDUIT (RMC)1121" RMC INSULATED THROAT CONDUIT (RMC)1221" UNI-STRUT STRAP13A/R3/4" SCHEDULE 40 PVC CONDUIT1423/4" PVC FEMALE ADAPTOR1521" UNI-STRUT STRAP16A/R1-5/8" X 1-5/8" GALVANIZED STRUT17A/R1-5/8" X 7/8" GALVANIZED STRUT1821" SCHEDULE 40 PVC CONDUIT1921" PVC FEMALE ADAPTOR1921" PVC FEMALE ADAPTOR1921" PVC FEMALE ADAPTOR202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362	10.					NUMBER
3115KVA, 240/480 X 120/240VAC, DRY TYPE TRANSFORMERSQUARE DEE15S3H410 FT1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC)531" LFMC INSULATED THROAT CONNECTOR611" LFMC STRUT STRAP7A/R3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC)810*3/4" RMC INSULATED THROAT CONDUIT HUB98*3/4" RMC STRUT STRAP10A/R1" GALVANIZED RIGID METALLIC CONDUIT (RMC)1121" RMC INSULATED THROAT CONDUIT (RMC)1221" UNI-STRUT STRAP13A/R3/4" SCHEDULE 40 PVC CONDUIT1423/4" PVC FEMALE ADAPTOR1521" UNI-STRUT STRAP16A/R1-5/8" X 1-5/8" GALVANIZED STRUT17A/R1-5/8" X 7/8" GALVANIZED STRUT1821" SCHEDULE 40 PVC CONDUIT1921" PVC FEMALE ADAPTOR1921" PVC FEMALE ADAPTOR202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362						
410 FT1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC)Image: constraint of the second	3			SQ	UARE D	EE15S3H
531" LFMC INSULATED THROAT CONNECTOR611" LFMC STRUT STRAP7A/R3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC)810*3/4" RMC INSULATED THROAT CONDUIT HUB98*3/4" RMC STRUT STRAP10A/R1" GALVANIZED RIGID METALLIC CONDUIT (RMC)1121" RMC INSULATED THROAT CONDUIT HUB1221" UNI-STRUT STRAP13A/R3/4" SCHEDULE 40 PVC CONDUIT1423/4" PVC FEMALE ADAPTOR1521" UNI-STRUT STRAP16A/R1-5/8" X 1-5/8" GALVANIZED STRUT17A/R1-5/8" X 7/8" GALVANIZED STRUT1821" SCHEDULE 40 PVC CONDUIT1921" PVC FEMALE ADAPTOR202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362						
611" LFMC STRUT STRAPImage: constraint of the structure7A/R3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC)Image: constraint of the structure810*3/4" RMC INSULATED THROAT CONDUIT HUBImage: constraint of the structure98*3/4" RMC STRUT STRAPImage: constraint of the structure10A/R1" GALVANIZED RIGID METALLIC CONDUIT (RMC)Image: constraint of the structure1121" RMC INSULATED THROAT CONDUIT (RMC)Image: constraint of the structure1221" UNI-STRUT STRAPImage: constraint of the structure13A/R3/4" SCHEDULE 40 PVC CONDUITImage: constraint of the structure1423/4" PVC FEMALE ADAPTORImage: constraint of the structure1521" UNI-STRUT STRAPImage: constraint of the structure16A/R1-5/8" X 1-5/8" GALVANIZED STRUTImage: constraint of the structure1821" SCHEDULE 40 PVC CONDUITImage: constraint of the structure1921" PVC FEMALE ADAPTORImage: constraint of the structure202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362						
7A/R3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC)Image: constraint of the system810*3/4" RMC INSULATED THROAT CONDUIT HUBImage: constraint of the system98*3/4" RMC STRUT STRAPImage: constraint of the system10A/R1" GALVANIZED RIGID METALLIC CONDUIT (RMC)Image: constraint of the system1121" RMC INSULATED THROAT CONDUIT (RMC)Image: constraint of the system1221" UNI-STRUT STRAPImage: constraint of the system13A/R3/4" SCHEDULE 40 PVC CONDUITImage: constraint of the system1423/4" PVC FEMALE ADAPTORImage: constraint of the system1521" UNI-STRUT STRAPImage: constraint of the system16A/R1-5/8" X 1-5/8" GALVANIZED STRUTImage: constraint of the system1821" SCHEDULE 40 PVC CONDUITImage: constraint of the system1921" PVC FEMALE ADAPTORImage: constraint of the system202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362						
810*3/4" RMC INSULATED THROAT CONDUIT HUBImage: constraint of the system98*3/4" RMC STRUT STRAPImage: constraint of the system10A/R1" GALVANIZED RIGID METALLIC CONDUIT (RMC)Image: constraint of the system1121" RMC INSULATED THROAT CONDUIT HUBImage: constraint of the system1221" UNI-STRUT STRAPImage: constraint of the system13A/R3/4" SCHEDULE 40 PVC CONDUITImage: constraint of the system1423/4" PVC FEMALE ADAPTORImage: constraint of the system1521" UNI-STRUT STRAPImage: constraint of the system16A/R1-5/8" X 1-5/8" GALVANIZED STRUTImage: constraint of the system1821" SCHEDULE 40 PVC CONDUITImage: constraint of the system1921" PVC FEMALE ADAPTORImage: constraint of the system202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362						
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A/R1" GALVANIZED RIGID METALLIC CONDUIT (RMC)Image: constraint of the system1121" RMC INSULATED THROAT CONDUIT HUBImage: constraint of the system1221" UNI-STRUT STRAPImage: constraint of the system13A/R3/4" SCHEDULE 40 PVC CONDUITImage: constraint of the system1423/4" PVC FEMALE ADAPTORImage: constraint of the system1521" UNI-STRUT STRAPImage: constraint of the system16A/R1-5/8" X 1-5/8" GALVANIZED STRUTImage: constraint of the system17A/R1-5/8" X 7/8" GALVANIZED STRUTImage: constraint of the system1821" SCHEDULE 40 PVC CONDUITImage: constraint of the system1921" PVC FEMALE ADAPTORImage: constraint of the system202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362	-					
1121" RMC INSULATED THROAT CONDUIT HUB111221" UNI-STRUT STRAP1113A/R3/4" SCHEDULE 40 PVC CONDUIT111423/4" PVC FEMALE ADAPTOR111521" UNI-STRUT STRAP1116A/R1-5/8" X 1-5/8" GALVANIZED STRUT1117A/R1-5/8" X 7/8" GALVANIZED STRUT111821" SCHEDULE 40 PVC CONDUIT111921" PVC FEMALE ADAPTOR11202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362						
1221" UNI-STRUT STRAP1113A/R3/4" SCHEDULE 40 PVC CONDUIT111423/4" PVC FEMALE ADAPTOR111521" UNI-STRUT STRAP1116A/R1-5/8" X 1-5/8" GALVANIZED STRUT1117A/R1-5/8" X 7/8" GALVANIZED STRUT111821" SCHEDULE 40 PVC CONDUIT111921" PVC FEMALE ADAPTOR11202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362						
13A/R3/4" SCHEDULE 40 PVC CONDUIT1421423/4" PVC FEMALE ADAPTOR151521" UNI-STRUT STRAP1616A/R1-5/8" X 1-5/8" GALVANIZED STRUT1717A/R1-5/8" X 7/8" GALVANIZED STRUT171821" SCHEDULE 40 PVC CONDUIT171921" PVC FEMALE ADAPTOR17202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362	12	2				
1521" UNI-STRUT STRAP116A/R1-5/8" X 1-5/8" GALVANIZED STRUT117A/R1-5/8" X 7/8" GALVANIZED STRUT11821" SCHEDULE 40 PVC CONDUIT11921" PVC FEMALE ADAPTOR1202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362	13	A/R				
16A/R1-5/8" X 1-5/8" GALVANIZED STRUTImage: constraint of the strut of the struct of the str	14	2				
16A/R1-5/8" X 1-5/8" GALVANIZED STRUT117A/R1-5/8" X 7/8" GALVANIZED STRUT11821" SCHEDULE 40 PVC CONDUIT11921" PVC FEMALE ADAPTOR1202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362				1		
17A/R1-5/8" X 7/8" GALVANIZED STRUT11821" SCHEDULE 40 PVC CONDUIT11921" PVC FEMALE ADAPTOR1202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362				1		
1821" SCHEDULE 40 PVC CONDUIT11921" PVC FEMALE ADAPTOR1202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362				1		
1921" PVC FEMALE ADAPTOR1"202TRANSFORMER WALL MOUNT BRACKETSQUARE DWMB361362	18			1		1
	19		1" PVC FEMALE ADAPTOR			
	20	2	TRANSFORMER WALL MOUNT BRACKET	SQ	UARE D	WMB361362
DESIGNED BY: CRF						-
CHECKED BY: CRF					CHECKED	BY: CRF
					CHECKED APPROVED	BY: <b>CRF</b>

# WEST INTERIOR ELEVATION





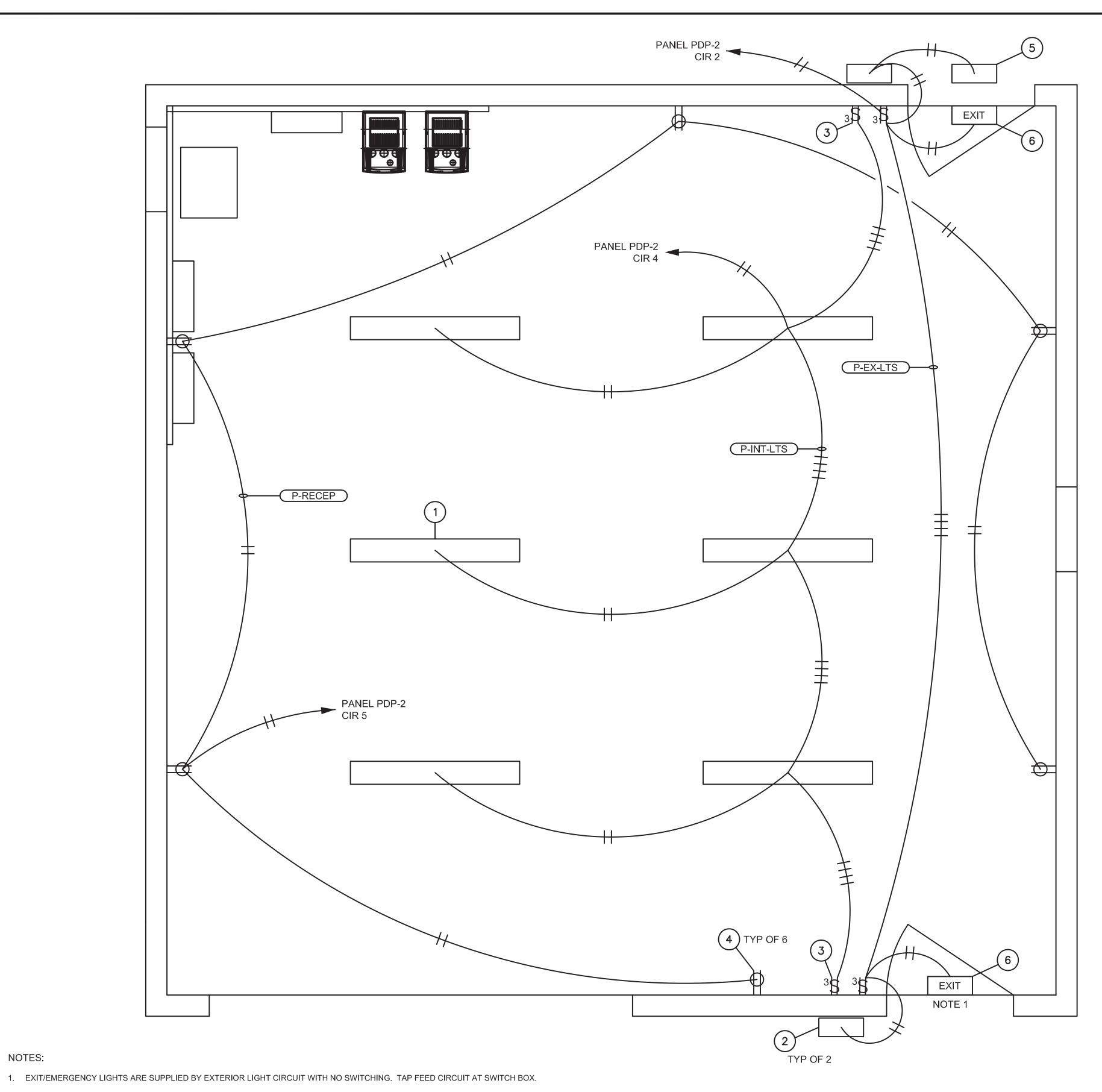
- P.XFMR-T2	T1/	by cfarquar - Path = Y:\OES Projects/Aztec Pump Station/CAD Files/1800067-E005.dwg
C UPPER EAST TANK	JOB NO. 18000:67	
IP HOUSE INTERIOR	FILENAME 1800067-E006	<b>1"=1'-0"</b>
TION AND EQUIPMENT	DWG. NO.	REV. NO
ILL OF MATERIALS	1800067-E006	REV. NO.
	ANSI	⊃, 22 x 34 in.



(	)	BILL OF MATERIAL				
NO.	QTY.	DESCRIPTION	MANUFACTURER	PART NUMBER		
1	1	400A, 3Ø, 4W, 480Y/277V, 30 SPACE PANELBOARD	SQUARE D	NF MB 400A		
2	2	75HP, 480V, 3Ø, ACTIVE FRONT END VFD	ABB	ACS800-U31-0100		
3	N/A	NOT USED				
4	N/A	1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC)				
5	1	1" LFMC INSULATED THROAT CONNECTOR				
6	1	1" LFMC STRUT STRAP				
7	A/R	3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC)				
8	N/A	3/4" RMC INSULATED THROAT CONDUIT HUB				
9	6*	3/4" RMC STRUT STRAP				
10	A/R	1-5/8" X 1-5/8" GALVANIZED STRUT				
11	A/R	1-5/8" X 7/8" GALVANIZED STRUT				
12	A/R	1-1/2" SCHEDULE 40 PCV CONDUIT				
13	A/R	1-1/2" GALVANIZED RIGID METALLIC CONDUIT (RMC)				
14	6	1-1/2" RMC INSULATED THROAT CONDUIT HUB				
15	6	1-1/2" RMC STRUT STRAP				
16	A/R	3" SCHEDULE 80 PVC CONDUIT				
17	2	3" SCH 80 PVC FEMALE ADAPTOR				
18	2	3" METALLIC CHASE NIPPLE				
19	2	3" SCH 80 PVC STRUT STRAP				
20	2	3/4" FORM 7 LL CONDULET				
21	2	3/4" FORM 7 LR CONDULET				
22	4	3/4" RMC CLOSE NIPPLE				
23	2	1 1/2" PVC FEMALE ADAPTOR				
24	1	3.5 TON 480V 3Ø HVAC UNIT W/9KW HEATER	BARD	W42A#CO9XP4		

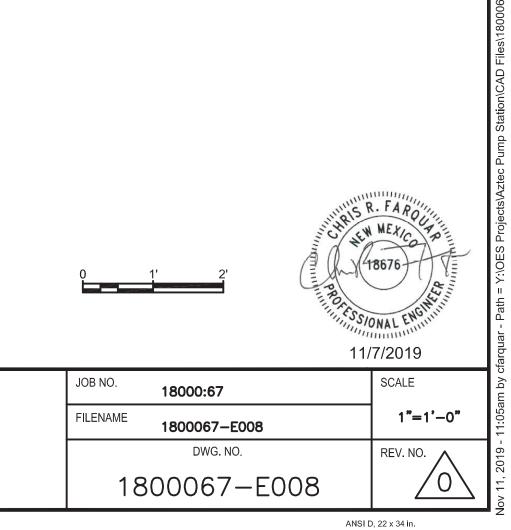
					DESIGNED BY: CRF
					CHECKED BY: CRF
					APPROVED BY:
					CLIENT APPROVAL:
11/7/2019	ISSUED FOR CONSTRUCTION	BWH	CRF		
DATE	REVISION	BY	CK.	APPR.	
					Image: Construction         Image: Construction

NOTES:



		BILL OF MATERI	AL	
NO.	QTY.	DESCRIPTION	MANUFACTURER	PART NUMBER
1	6	38W MULTI-VOLTAGE VAPOR TIGHT 4' LED SURFACE MT	EATON	4VT2-LD4-4-DR-UNV-840-CD1-WL-U
2	2	76W MULTI-VOLTAGE WALL PACK	EATON	WPMLED
3	2	2-GANG SWITCH BOX W/2-3WAY SWITCHES & IND COVER		
4	6	1-GANG SWITCH BOX W/1-DUPLEX RECEPTACLE & IND COVER		
5	1	WALL MOUNT 120V SPOT LIGHT PER OWNERS SPECIFICATION		
6	2	WALL MOUNT COMBO EMERGENCY/EXIT LIGHT	EATON	RCS182LED





			ELEC	TRICAL CONDUIT AN	D CABLE SCHEDULE	
CABLE #	CONDUIT	SIZE & NUMBERS OF CONDUCTORS	INSULATION	VOLTAGE RATING	FROM	ТО
P-PDP1-A	3" SCH 80 PVC	3-1C #3/0 & 1-1C #1/0 GC	XHHW-2	600	150KVA TRANSFORMER XFMR-T1	480 VOLT PANEL PD-1 MAIN CB
P-PDP1-B	3" SCH 80 PVC	3-1C #3/0 & 1-1C #1/0 GC	XHHW-2	600	150KVA TRANSFORMER XFMR-T1	480 VOLT PANEL PD-1 MAIN CB
P-P100-1	1-1/2" RMC	3-1C #1 & 1-1C #6 EGC	THHN	600	480 VOLT PANEL PD-1	75HP WATER PUMP VFD VFD-100
P-P100-2	1-1/2" RMC/SCH 40 PVC	3-1C #1 & 1-1C #6 EGC	THHN	600	75HP WATER PUMP VFD VFD-100	75HP WATER PUMP MOTOR P-100
P-P110-1	1-1/2" RMC	3-1C #1 & 1-1C #6 EGC	THHN	600	480 VOLT PANEL PD-1	75HP WATER PUMP VFD VFD-110
P-P110-2	1-1/2" RMC/SCH 40 PVC	3-1C #1 & 1-1C #6 EGC	THHN	600	75HP WATER PUMP VFD VFD-110	75HP WATER PUMP MOTOR P-110
P-HVAC	3/4" RMC	3-1C #10 & 1-1C #10 EGC	THHN	600	480 VOLT PANEL PD-1	3.5 TON HVAC UNIT #1
P-XFMR-T2	1" RMC/LFMC	2-1C #8 & 1-1C #10 EGC	THHN	600	480 VOLT PANEL PD-1	15KVA TRANSFORMER XFMR-T2
P-PDP2	1" RMC/LFMC	2-1C #4, 1C-#4 GC & 1-1C #8 EGC	THHN	600	15KVA TRANSFORMER XFMR-T2	240/120V PANEL PD-2
P-RECT	3/4" RMC	2-1C #10 & 1-1C #10 EGC	THHN	600	240/120V PANEL PD-2	CATHODIC RECTIFIER
P-PLC-PS	3/4" RMC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	PLC POWER SUPPLY
P-RTU-PS	3/4" RMC/SCH 40 PVC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	EXISTING RTU CABINET
P-RECEP	3/4" RMC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	PUMP HOUSE RECEPTACLES
P-INT-LTS	3/4" RMC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	PUMP HOUSE INTERIOR LIGHTS
P-EXT-LTS	3/4" RMC	2-1C #12 & 1-1C #12 EGC	THHN	600	240/120V PANEL PD-2	PUMP HOUSE EXTERIOR LIGHTS

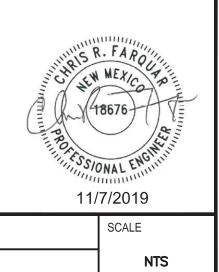
	CONTROLS CONDUIT AND CABLE SCHEDULE					
CABLE #	CONDUIT	SIZE & NUMBERS OF CONDUCTORS	INSULATION	VOLTAGE RATING	FROM	то
I-PIT-100	3/4" RMC/SCH 40 PVC	1-4C #18 CABLE W/OS	TC-TFN	600	PLC CABINET	DISCHARGE PRESSURE TRANSDUCER P-100
IC-VFD-100	3/4" RMC	1-4PR #18 CABLE W IS-OS	TC-TFN	600	PLC CABINET	WATER PUMP P-100 DRIVE VFD-100
IC-VFD-110	3/4" RMC	1-4PR #18 CABLE W IS-OS	TC-TFN	600	PLC CABINET	WATER PUMP P-100 DRIVE VFD-110
IC-RTU	1" RMC/SCH 40 PVC	2-1PR #16 OS & 5-1C #16	TC-ITC/THWN	600	PLC CABINET	EXISTING RTU CABINET
COMM-RTU	1" RMC/SCH 40 PVC	1-4PR #22 CAT 5 OUTDOOR RATED	CAT 5	300	PLC CABINET	EXISTING RTU CABINET

NOTES:

1. GC = GROUNDED CONDUCTOR (NEUTRAL), EGC = EQUIPMENT GROUNDING CONDUCTOR

						DESIGNED BY: CRF
						CHECKED BY: CRF
						APPROVED BY:
						CLIENT APPROVAL:
0	11/7/2019	ISSUED FOR CONSTRUCTION	CRF	CRF		
NO	DATE	REVISION	BY	CK.	APPR.	



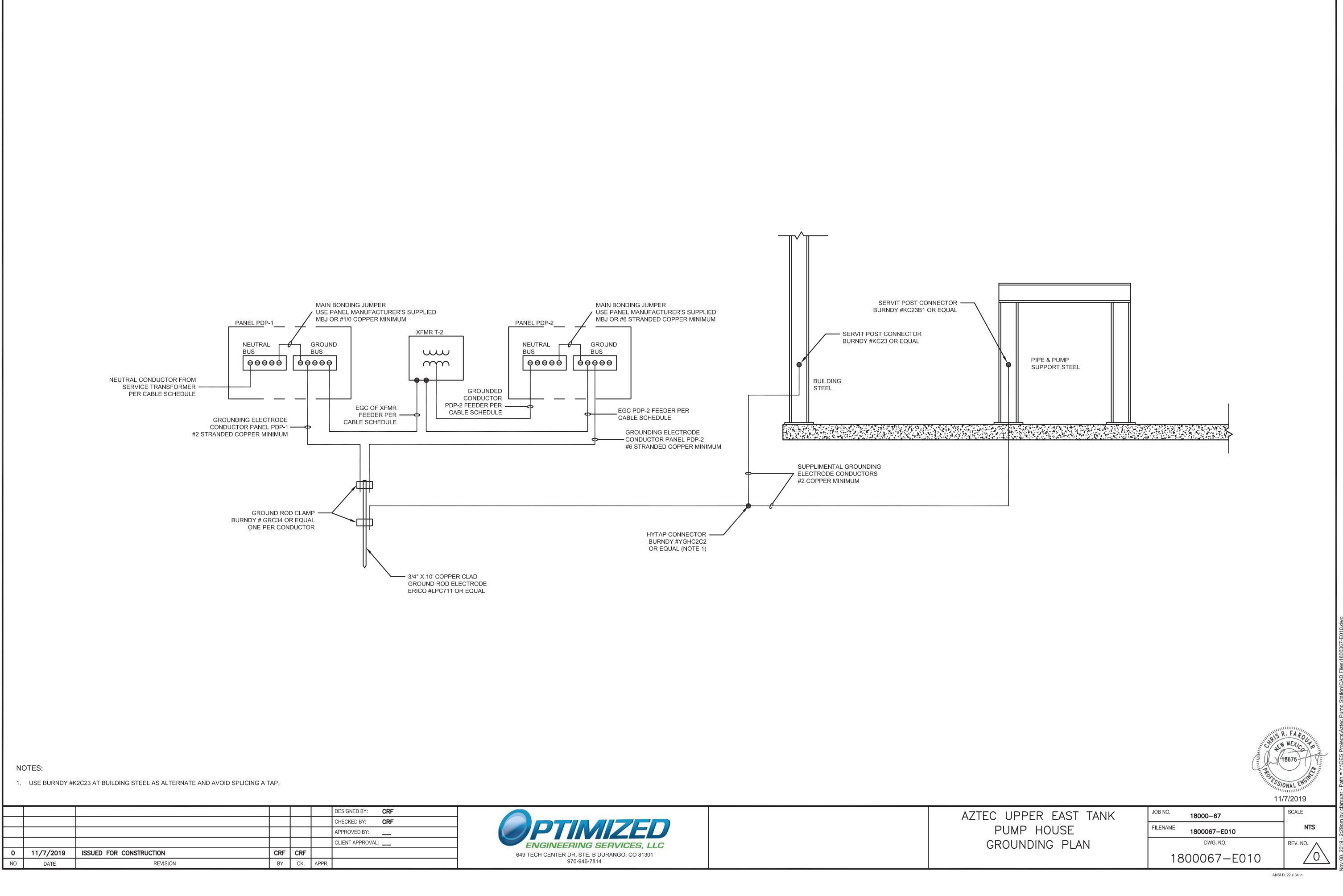


AZTEC UPPER EAST TANK PUMP HOUSE ELECTRIC CONDUIT & CABLE SCHEDULE

JOB NO. <b>18000–67</b>
FILENAME 1800067-E009
DWG. NO.
1800067-E009

ANSI D, 22 x 34 in.

REV. NO. 🔨



AZTEC
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