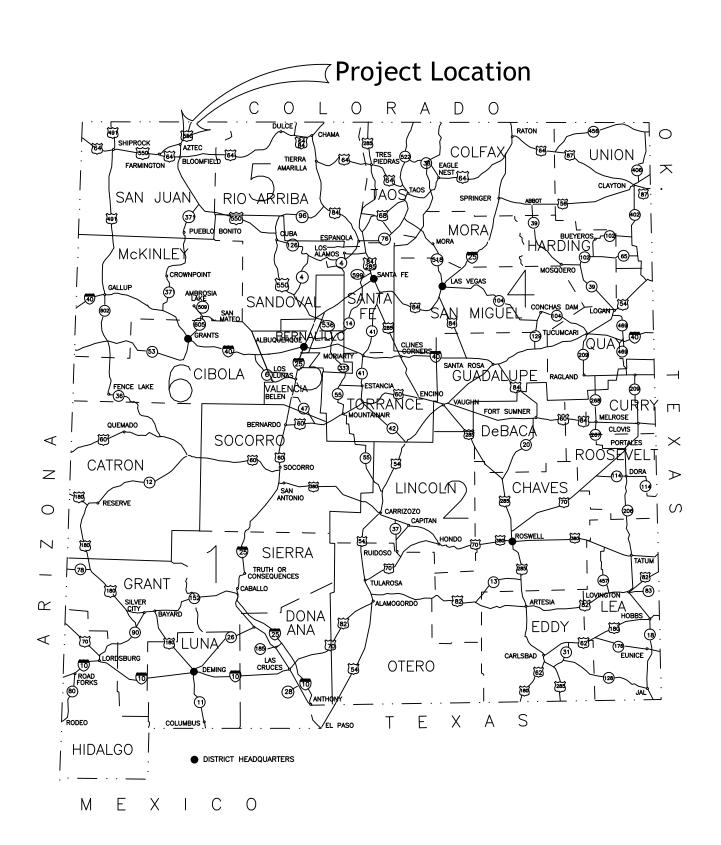
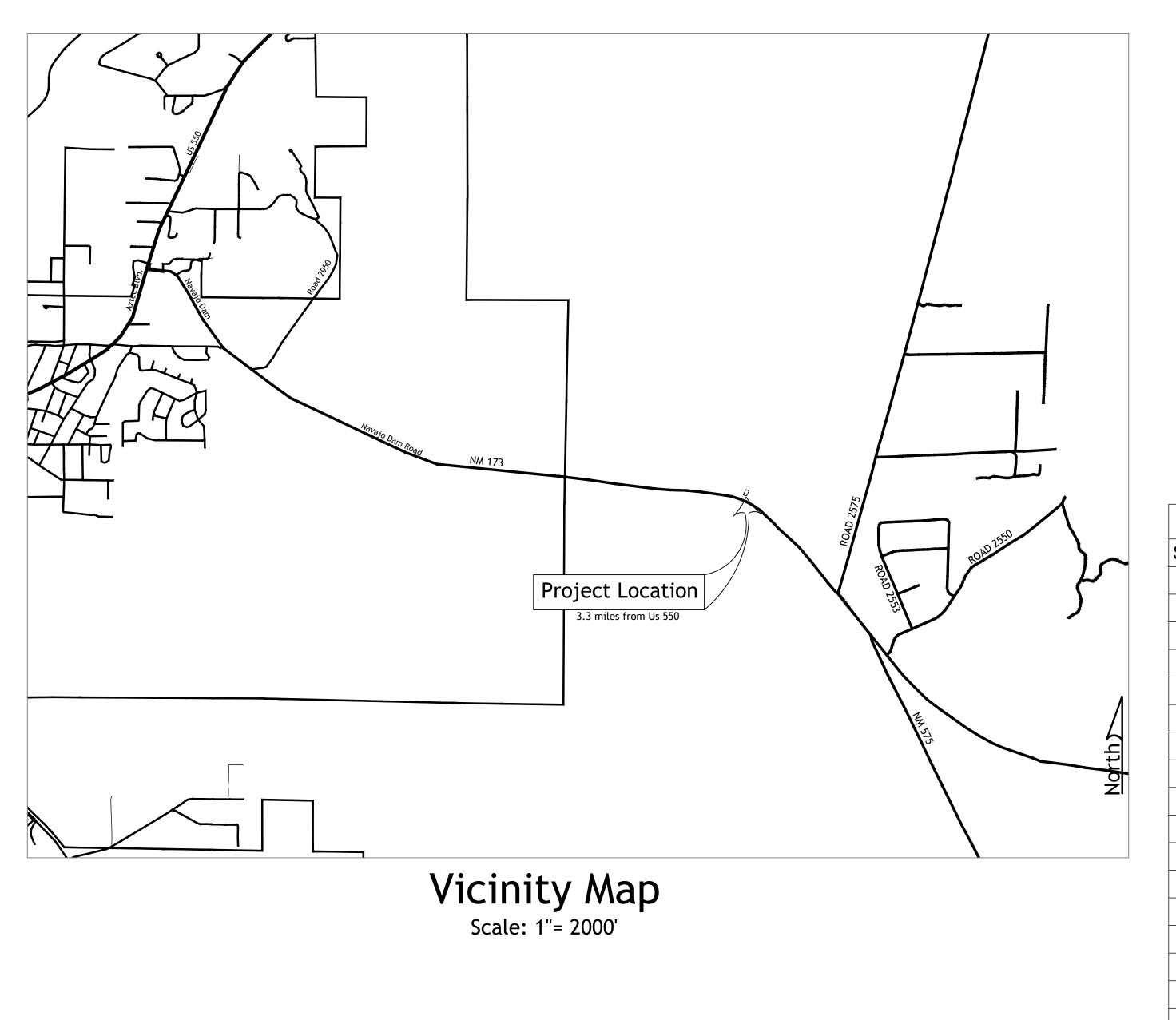
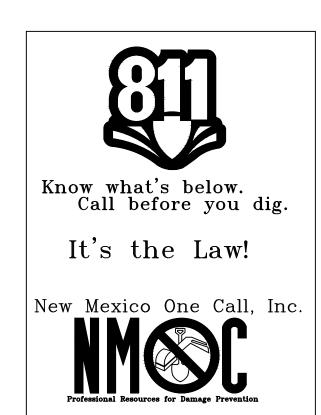
East Aztec Pump Station City of Aztec, New Mexico San Juan County







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: 02/22/2021 - 11:40am

| | | Revision Log | 1 . . 2 . . 3 . . 4 . . 5 . . 6 . . Plot Date: 02/22/2021 - 11:40am |
|---------------------|---|--------------------|---|
| | City () of <u>City</u> () of <u>City</u> () | Owner: | City of Aztec |
| | | Project: | EAST AZTEC PUMP STATION |
| | Sheet List Table | | |
| | | | |
| Sheet Number 1-1 | Sheet Title Cover Sheet | ion: | ET |
| 1-1 | Overview | Sheet Description: | COVER SHEET |
| 2-1 | Site Plan | heet D | OVEF |
| 3-1 | Pump House Piping - Plan View | S | Ũ |
| 3-2 | Pump House Piping Layout - Section View | | |
| E000 | Electric Sheet Title & Index | | |
| E001 | Electric Power One Line 480VAC & 240VAC | | |
| E002 | Electric Panel Schedules 480VAC & 240VAC | ┣─ | |
| E003 | Electric Motor Schematic 480VAC Pump P-100 | | |
| E004 E005 | Electric Motor Schematic 480VAC Pump P-110 Equipment Layout & Conduit Routing Plan | | WE HAVE INCORPORATED FORMATION PROVIDED BY |
| E005 | Interior Elevation & Bill Of Materials | | HE PROJECT CONTRACTOR AND BY PERIODIC FIELD VISITS. |
| E000 | Interior Elevation & Bill Of Materials | | |
| E008 | Lighting & Power Plan | | |
| E009 | Electric Conduit & Cable Schedule | | |
| E010 | Pump House Grounding Plan | C, | HC Engineers, LLC |
| S1 | Foundation & Roof Plans & Details | | 50 Valley Court Durango, CO |
| S2 | General Structural Specs & Details | | 970-387-8765 |
| | | | Project Date: 12/18/19 |

Proj: 19003

1-1





- Control Panel SCADA

- Stub up and Cap Conduit Provide (3) 2" PVC Conduits, Siglued connections with long sweep radius. Bury 24" deep

New 6" Gate Valve with Valve Box -Install 6" Tee Connect to -Existing 6" SDR21

- Existing Pressure Transducer Abandon, leave in place.

UGE-

- Existing 6" Gate Valve Protect in Place

- Existing Buried Pump To be Removed and Disposed

- 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 Demo to City

 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

- 8" Tee with plug - Remove and Replace Fence as Required. Incidental - New 8"x6" Reducer - New 6" Gate Valve with Valve Box

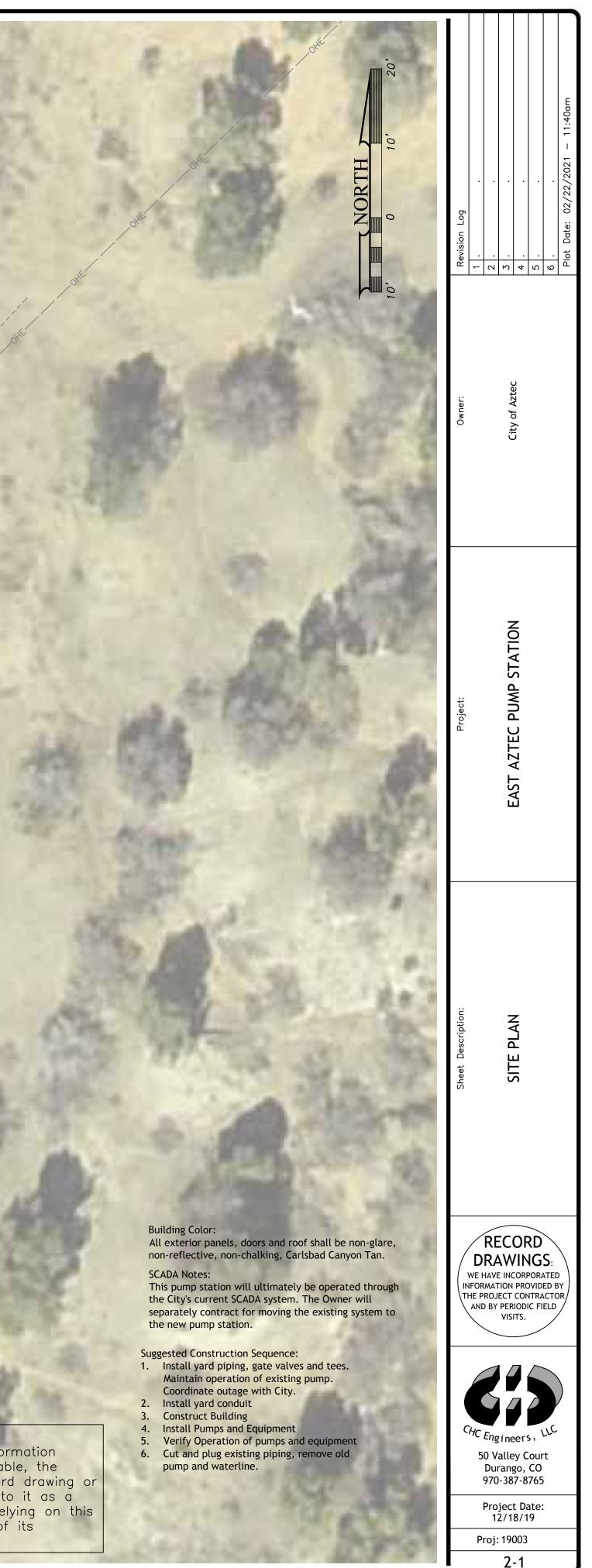
- Existing Line to the Upper East Tank

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

RECORD DRAWING

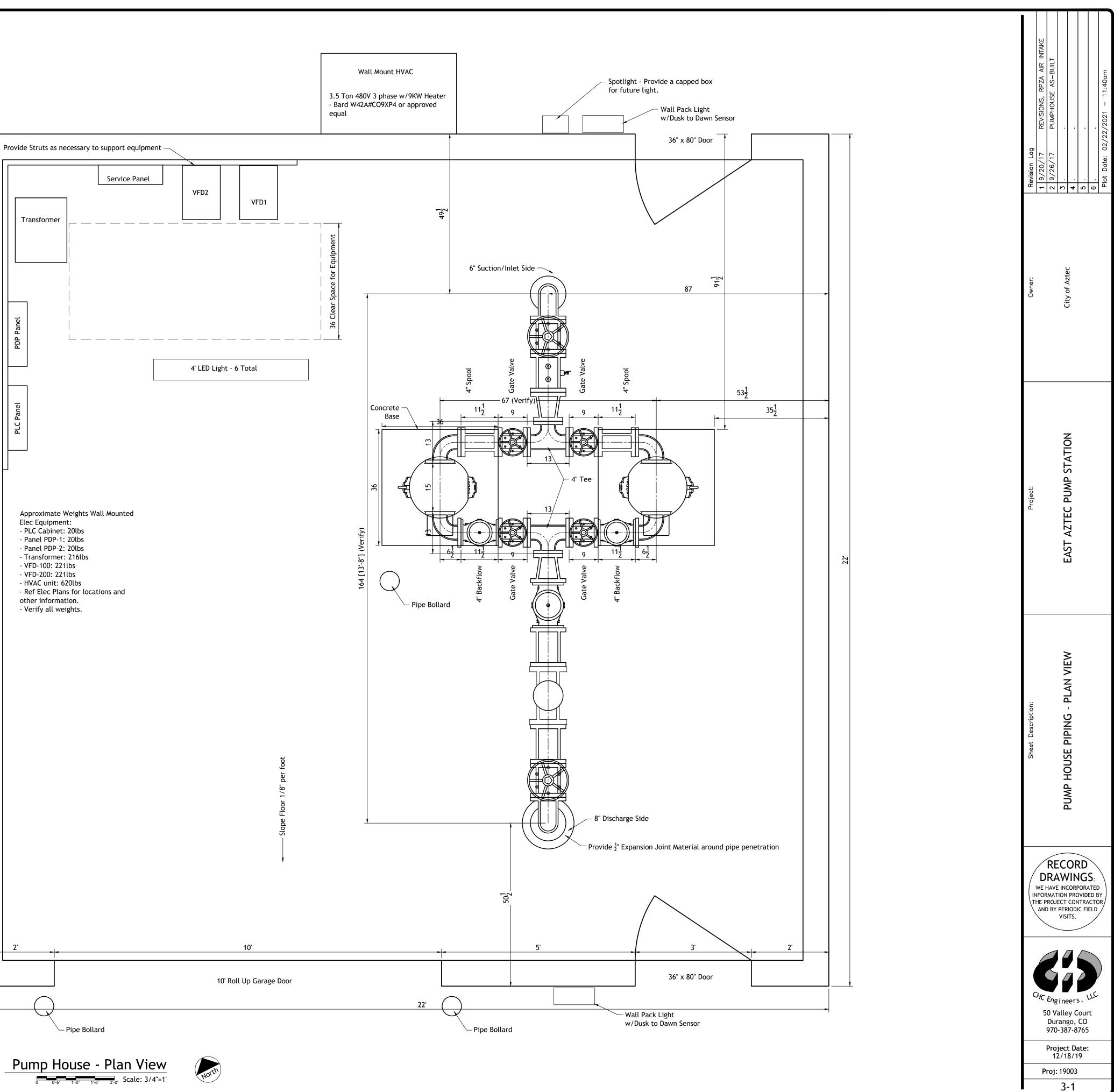
This record drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, the Engineer assumes no responsibility for the accuracy of this record drawing or for any errors or omissions that may have been incorporated into it as a result of incorrect information provided to the Engineer. Those relying on this record/document are advised to obtain independent verification of its accuracy.



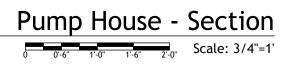
Note:

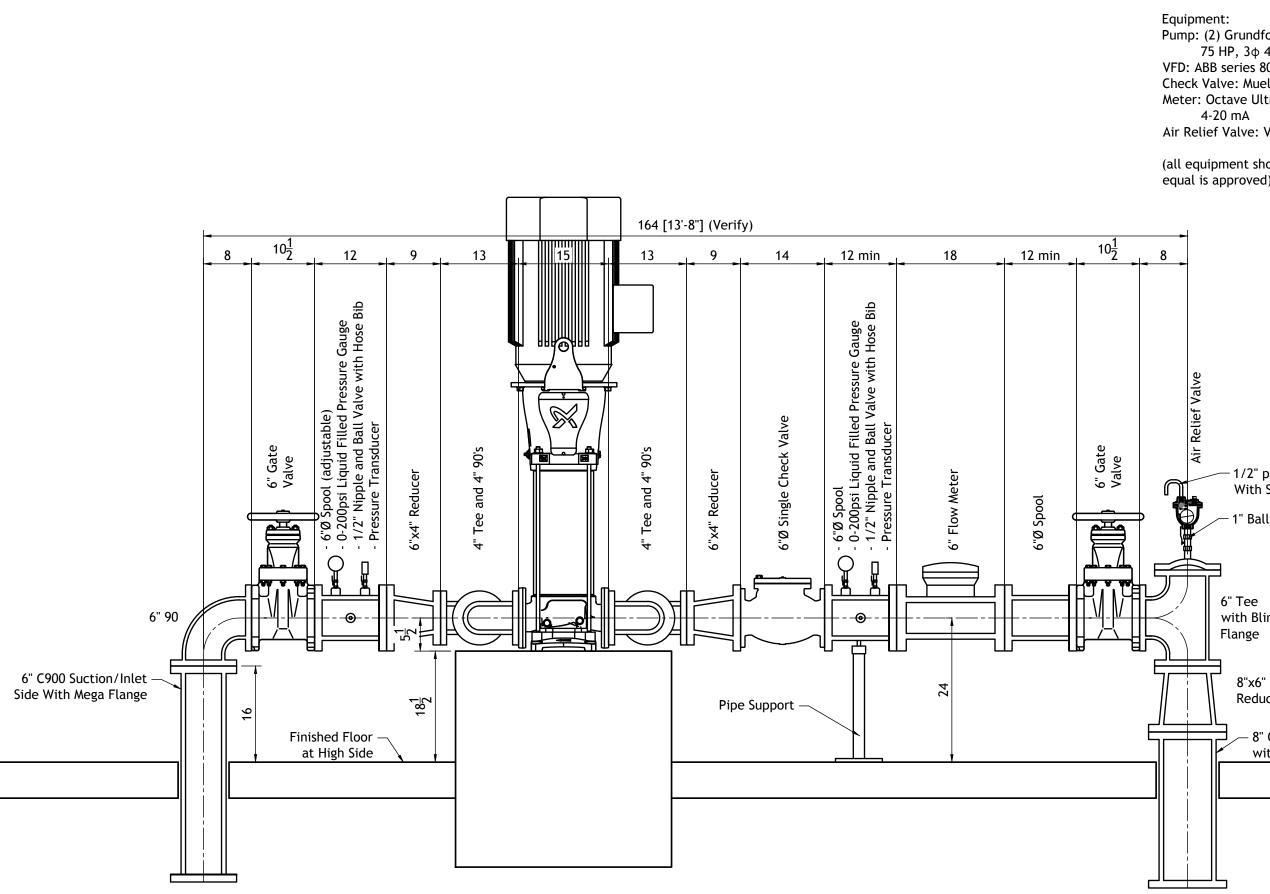
• All Fittings shall be AWWA C110 PC 250 with Flanged Ends.

- 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.



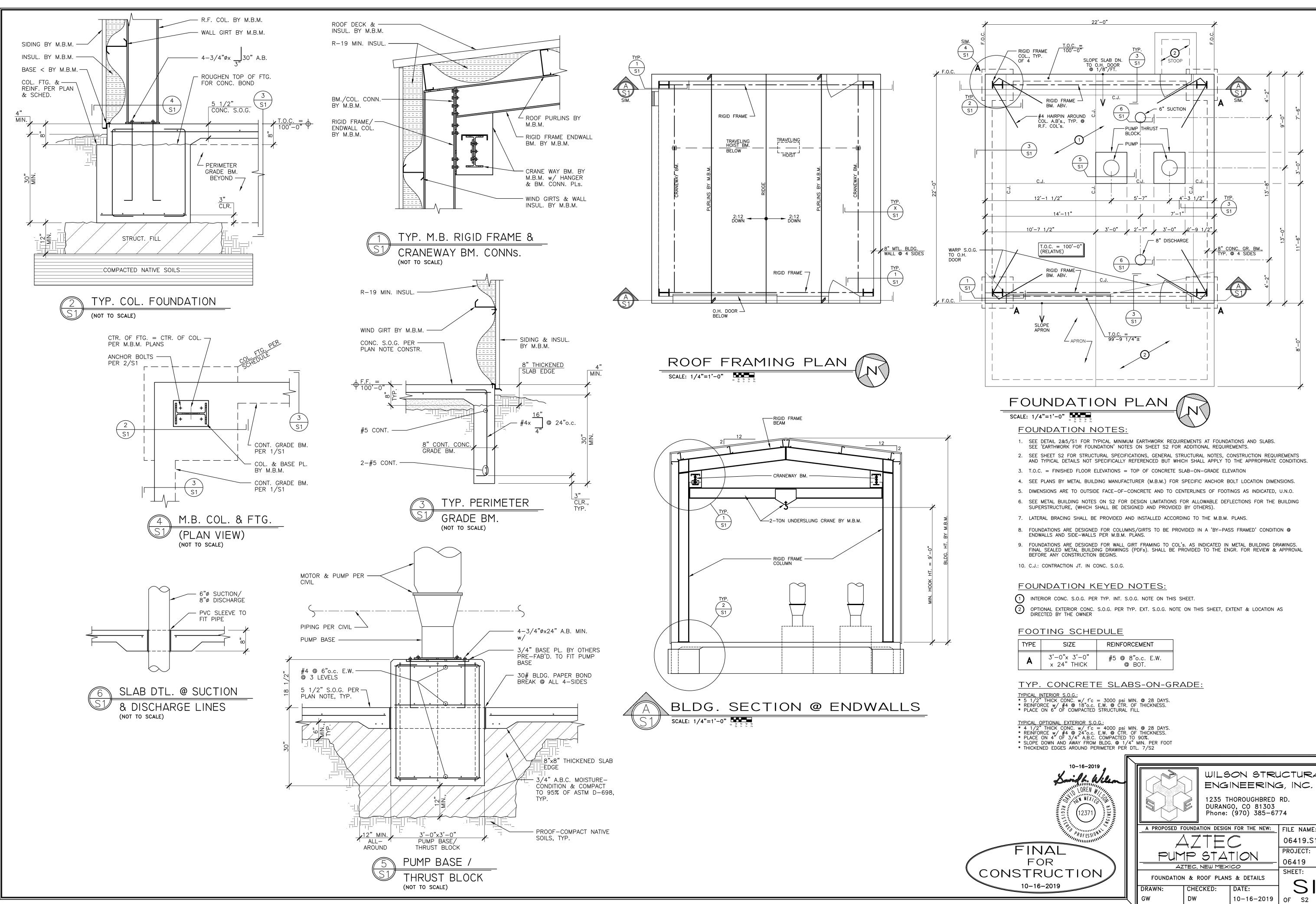




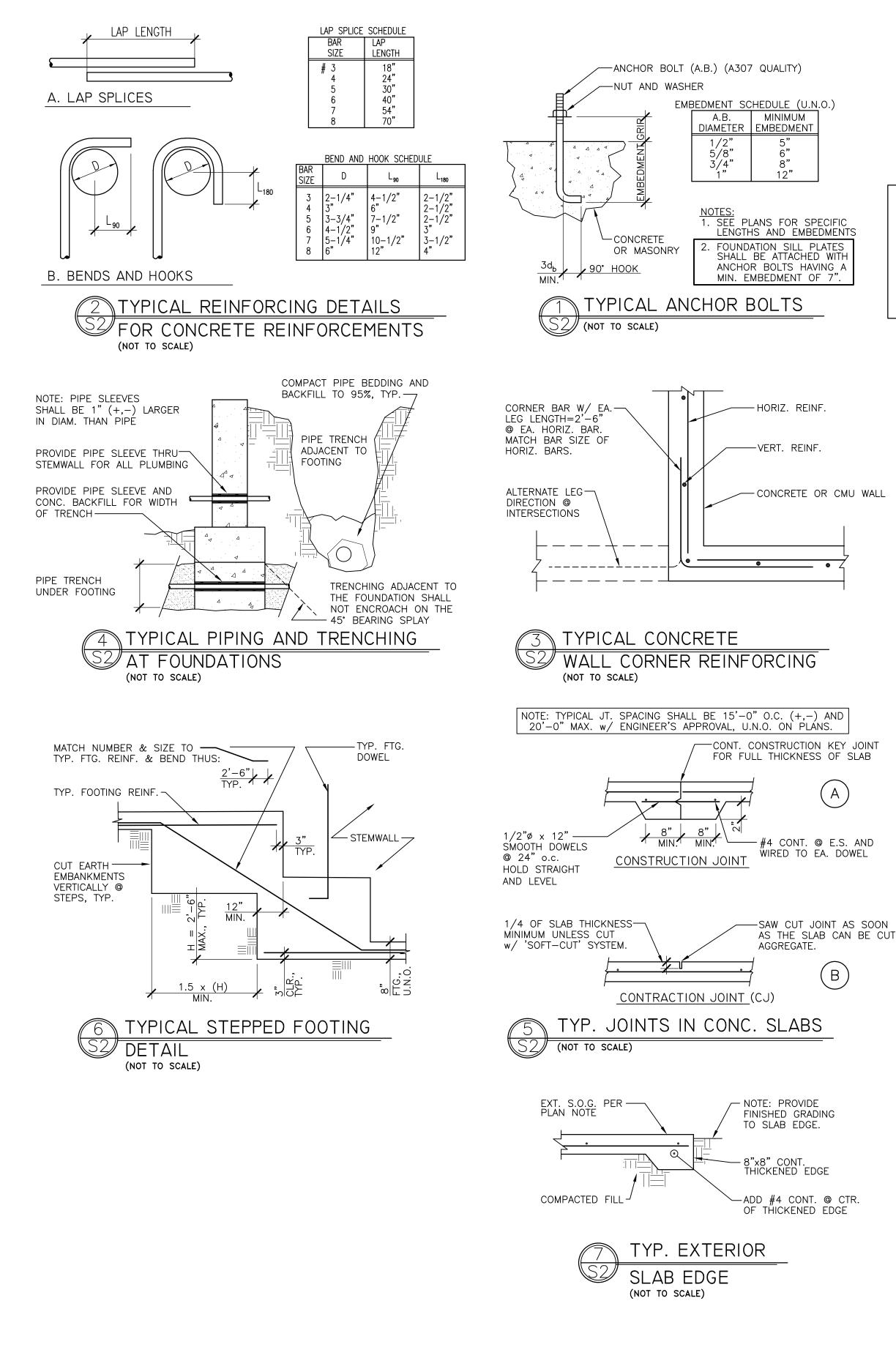


Note:
All Fittings shall be AWW
Provide 1" Threadolets w
All necessary fittings, be specifically called out ar
Spools called out as adju

| | Owner: 1 9/20/17 REVISIONS, RPZA AIR INTAKE | 2 9/26/17 PUMPHOUSE AS-BUILT 3 . . 4 . . 5 . . 6 . . Plot Date: 02/22/2021 - 11:40am |
|---|--|--|
| | Ó | City o |
| Idfos CR 95-5-1A-G-A-E-HQQE \$\phi 480V \$ 800 weller A-2600-6-01B1 Ultrasonic Epoxy Coated DI \$\text{e}: Val-Matic 15, 1" \$shown is expected unless fed) | Project: | EAST AZTEC PUMP STATION |
| t" piping th Screen Ball Valve e Blind e K6" ducer 8" C900 Discharge Pipe with Mega Flange | Sheet Description: | PUMP HOUSE PIPING LAYOUT - SECTION VIEW |
| | (D) WE H INFOR THE P | RECORD RAWINGS: HAVE INCORPORATED MATION PROVIDED BY ROJECT CONTRACTOR D BY PERIODIC FIELD VISITS. |
| | 5 | Engineers, LLC 0 Valley Court Durango, CO 970-387-8765 |
| WWA C110 PC 250 with Flanged Ends. ts welded to spools for gauges and testing ports with appropriate sized inserts. , bolts, gaskets, adjustments, etc. necessary for completion of the project not t are considered incidental to the project. adjustable shall be FLxPE with Mega Flange to be field cut to length. | | Project Date: 12/18/19 roj: 19003 3-2 |



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.
- 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

ABBREVIATION

A.B. = anohor boll

AB = postabove

ABV. = nbovo

ADJ = ndincont

AGG = municipality

B.B. = bond boom

or = book/ill

BLDG building

BLKG. • blocking

BTWN = belweel

CJ = construction total or,

= contraction joint or

CMU = concrete manonry unit

DAS = deformed anchor shull

D.F. = Douglas Firs Larch

= colling joint

CLG. = colling

COL. = mhumn

CTR. = IIIIIII

DBL.= IIIIIIII

DIA. = Illinninini

DL = dmml imml

DWG. DWL. ⊨ driwnl

DTL. = IIIIIII

EA = em h

FF = each and

E.F. = each face

E.J. = expansion joint

ENGR

CTRD = unified

CONC = concrete

CONN CONNECTION

CONT.

CONTH.

BLK = block

BM = boom

BRG = boolog

ARCHI mobiliod

A.A. = Adhenive anchor

ABC = aggregate base course

B.F. = boltom of footing elev.,

- Engineer before placing foundations. 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.
- Contractor shall provide 24 hour notice for observations.

NOTICE

These plans by Wilson Structural Engineening, 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 in plied by Wilson Structural Engineering, Inc. in any regard to the Wetall Building superstructure. These plans indicate the appropriate minimum loads and other in inimum 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 Wetal 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.

> 0, = equal 0, = each side VV. = each way EXP = expansion EXT = exterior FDN = foundation FF = finished floor elevation I J = floor joiet FQ = finished grade elevation F.O. = face of FOC = face of concrete FOB = face of alud FOM = face of masonry FRMG = framing F.B. = far bide FTO: = footing OA = gage OALV = galvanized G.B. = Grade Beam 3L = glue laminated beam OR. = grade HAS = headed anchor stud HDR. = header H.F. = Hem-fir HORIZ = horizontal H.S. = high strength INFO = information INT = interior JBT. = joiet f. = joint KB = king stud LD = load LL = live load LLH = Iong leg horizontal LLV = long leg vertical LVL = laminated veneer MAB = masonry MAT = malerial MAX = maximum M.B.M. = metal building mfr. Mfr. = manufacturer MIN = minimum

NA = not applicable

NLG = nailing N_G = near side NTS = not to scale O/ = OVerI.C. = on center H = opposite hand OPNG = opening 36B = oriented strand board P/C = precest PL = plate -PLYWD = plywood PNL = panel P.T. = pressure treated REINF. = reinforcing R.J. = roof joiet SH/ = Simpson hardware SHT. = sheet SHTO, = sheathing SIM = similar BPA = space STL = steel BL = snow load 1.O.G. = slab-on-grade 5.5. = steel stud SW = shearwall T.B. = top of beam .J. = top of joint L. = top of ledger T.M. = top of masonry TN = loe hall O. = lep of O.C. = top of concrete O.S. = top of steel O.SHTG. = top of sheathing T.O.W. = top of wall T.P. = top of parapet . PL = top of plate T.R. = threaded rod TB = trim studs or, = tube steel TYP = typical UNO = unless noted otherwise VERT = vertical WWF = welded wire fabric

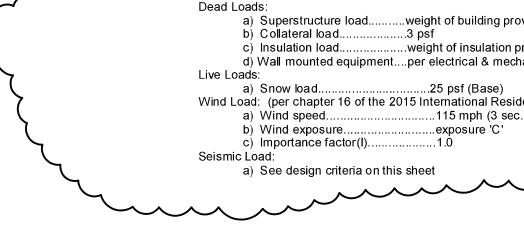
CONCRETE AND REINFORCING

- 1. Concrete shall be made from an approved commercial mix of aggregates, pote Portland Cement (type II) meeting ASTM C150 specifications. Admixtures m
- 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. ..1 1/2"
 - exterior face ... 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 imperm 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. Inadequ concrete will be adequate cause for rejection.
- 18. Cold woilthor protection: Concrete shall not be allowed to freeze. Concrete ter maintained above 40 degrees for the first 7 days. The criteria presented in these Aphol/IoAllona are minimum requirements for the concrete mix design. These r ad equale 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 dogroot for a minimum of 7 days, achieves the minimum required strength and nervicable. Additional measures which may used include, but are not limited to: protoction blankets, tenting and heating, accelerating admixtures, and addition
- the mix design above the minimum requirement. 10. Concrete the inhall be tested as follows: 3 standard ASTM Concrete test cylinders : 76 (UDX) y III (I) of placed concrete with a minimum of 3 cylinders cast for each of placed. One slump and one air entrainment test shall be made for each set of e onghoor 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 ver
- 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 c 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 licensed 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 Building 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 the based on the design requirements for the superstructure. Anchor bolts of greate 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 d 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 si 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:





| able water and neeting appropriate | In the absence of specific details refer to appropriate typical details or similar details for information. If any questions remain call the Engineer for clarification. |
|--|---|
| nd ha ve a maximum | The plans and details in some areas represent assumptions made of existing conditions. The Contractor shall notify the Engineer immediately if conditions are found different from those assumed. The Engineer shall also be notified if field conditions necessitate changes from the plans. In either |
| ations maybe f 1.1 lb. of fly ash for | case detail changes may be required before work can proceed.3. The plans shall not be scaled to obtain working dimensions. If dimensions are missing from the plans |
| e Engineer for | get clarification from the Engineer. <u>Cross-check all dimensions with the Metal Building Manufacturers</u> <u>plans</u> . All layout dimensions shall be closed from both directions. |
| n 28 days: | 4. All openings or modifications to structure not shown on the structural plans shall be verified with the Engineer before doing the work. |
| cement: | The Contractor shall repair or replace all damaged materials. The Contractor shall notify the Engineer of any discrepancies found in the contract documents (plans |
| | and specifications). Clarifications shall be received from the Engineer before proceeding with the work. The most restrictive condition shall govern when clarification is not obtained. |
| | All mechanical unit weights shall be verified with loads shown on the structural drawings. Notify the Engineer, if weights are different than those shown or units are required where not shown on the structural drawings. |
| | These plans represent a design for final in-place conditions. It shall be the Contractors' responsibility to account for all construction conditions, loads, sequences, temporary bracing requirements, all |
| | safety considerations, OSHA regulations, and all other applicable standards. 9. Construction shall follow the plans, details, notes and specifications. The Contractor shall be directly |
| nless specifically | responsible for uncorrected errors or deviations from the plans without the Engineers approval. The Engineer will be available for considerations and repairs. Excessive repair detailing or revision to the |
| echanical vibration. | contract documents shall be paid for by the Contractor. 10. Each sub-contractor shall inspect the conditions and work in place before they begin. Errors, problems and upgementable conditions about the repeired before beginning the new work. Paginning |
| I conform to ASTM | problems and unacceptable conditions shall be repaired before beginning the new work. Beginning the new work shall be interpreted as acceptance of the previous work and conditions. 11. When shop drawings and product information are required for review by the Architect/Engineer, the |
| during concrete | Contractor shall allow 2 weeks for the review period. When shop drawings and product information are provided in large format (i.e. larger than 8 1/2" x 11"), one set of reproducibles shall be included |
| | with 3 sets of bluelines for mark-ups and stamping. The reproducibles will be returned to the Contractor to allow for his printing of as many sets of marked-up drawings as he shall require. |
| nsion. Bars dri <i>v</i> en into | |
| sides extending 2'-0" | 1. Superimposed Design Loads: |
| Z | Roof DL = 10 psfFor foundation design only Roof Snow Load = 25 psf (Importance factor Is = 1.0) |
| ig out shall not be done | 2. Applicable Building Code = 2015 International Building Code 3. Wind Load: a) Basic wind speed |
| ce shall be air based on volume. | a) Basic who speed |
| quate curing can cause | 4. Seismic Load: a) Use GroupII |
| l effects. Concrete meable barrier or with a | b)Site ClassD c)Short Period Spectral response (Ss)17.9% g |
| s. Other concrete shall pplied immediately uring windy and or hot | d) Importance factor(Ie)1.0 5. Earthwork per 'Earthwork for Foundations' on this sheet. |
| uring windy and or not quately cured | |
| mperature shall be se notes and the | BPECIALTY CONNECTIONS / ANCHORAGES / FASTENERS |
| minimums will not be ility of the General | Expansion bolts, adhesive anchors, shotpins, headed anchor studs (HAS), self-tapping screws and other proprietary devices shall have ICBO approvals. These approvals along with load capacities and use information shall be submitted to the Engineer when materials other than those specified are |
| emains above 40 d remains durable and | proponed. 2. Devices shall be used in full accordance with manufacturer's requirements. |
| Insulation and of Portland Cement in | Headed anchor studs shall be welded all around the base of the stud with a 5/16" fillet unless noted (IN0/WIN0 Stud guns may be used provided the attachment will develop the strength of the stud. Typi001 00(eptable anchors (when called out in plans) unless noted otherwise. |
| shall be made for every | Ixpansion Bolts: 5/8" diameter by Hilti or Redhead with a minimum embedment of 4" Bholpins: 0.145" diameter minimum by Hilti or Ramset with 1" minimum embedment in concrete |
| day that concrete is cylinders made. The mode from this schedule | and a minimum safe working load in shear of 200 lb. Headed Anchor Studs: 1/2" diameter x 6" long by Nelson Stud |
| nade from this schedule | Adhenive Anchors: Hitti HIT or HVA system sized for bolts required Bell Tapping Screws: #10 TEK screws |
| | EARTHWORK FOR FOUNDATIONS |
| formulation or stars | |
| foundation system erified with the final k or forming is begun | The foundation designs are based on Table 1806.2 of the 2015 International Building Code. Allowable soil bearing pressure on native soils: @ 3'-0" minimum depth below lowest adjacent ext. grade = <u>1500 psf</u> |
| k or forming is begun. that which has been sign engineer shall | 2. All column foundations shall bear entirely on structural backfill over proof-compacted native soils. Slabs shall bear on a structural backfill pad placed over proof-compacted native soils. The structural |
| calculations. | fill shall be compacted to a minimum of 90% of ASTM D-1557. See minimum earthwork detail A/S1 for specifics. |
| or the loads, factors, | Unless noted otherwise footings shall bear a minimum of <u>30</u>" below lowest adjacent grade and 12" minimum below original native grade unless approved otherwise. |
| becifically shown in the bunted for in the design | All earthwork cuts and fills shall be made in level benches. All structural backfill materials (where necessary) shall be approved by a Soils Engineer. Unless |
| ghts with the Metal | approved otherwise, imported structural (or engineered) backfill shall be granular non-expansive material meeting the following minimum criteria: no more than 5% shall pass a 200 screen, 100% |
| gineer experienced in ed in the state where awings and erection | shall pass a 2 inch screen, and the material shall be well graded unless it is sand or 3/4 inch washed gravel. Some site material may be useable for structural backfill when approved by a Soils Engineer. |
| ore production | 6. Structural backfill shall be moisture conditioned, placed in thin lifts and mechanically compacted. Lifts shall not exceed 6" of compacted depth and shall be of depths compatible with the capabilities of |
| e AISC manual for steel al building design shall | the machinery used.Backfill shall be uniformly moisture controlled to maintain specified compaction densities. |
| Building Manufacturer's ferences between the | Unless noted otherwise all backfill shall be compacted to a minimum of 90% of the maximum density as determined by ASTM method D-1557. All compaction densities noted in the plans are relative to maximum density per ASTM D 1557 at antimum mainture content plus or minus 2% uplace noted. |
| ne erection drawings | maximum density per ASTM D-1557 at optimum moisture content plus or minus 3% unless noted otherwise. |
| lter size may be argest size governing | Foundations shall be constructed of concrete cast in clean trenches cut neally in engineered earth or in secure formwork if the native soils and compacted backfill won't allow clean open trenches. Reinforcement for concrete foundations shall be supported 3" minimum from earth on all sides. |
| Architect and Engineer. nse of the repair design | 10. Reinforcement for concrete foundations shall be supported 3" minimum from earth on all sides. Reinforcement shall not be supported on bars driven into the earth. It shall be supported on approved chairs or adobes or suspended from above. |
| nshall be reported in | approved chairs or adobes or suspended from above. 11. Foundations shall not be placed on frozen earth or unstable conditions. Frozen earth shall be thawed and re-compacted before placing foundations. All soft materials discovered shall be over-excavated |
| ctions shall include the | and re-compacted before placing foundations. All soft materials discovered shall be over-excavated as directed by the Soils Engineer and replaced with compacted engineered material. Geotextile fabric shall be provided for stabilization when conditions dictate. |
| divided by 240, (L/240). Ids unless approved | Water shall not be allowed from any source to accumulate in excavations. The Contractor shall provide de-watering. |
| now load. | The Contractor shall be responsible for safely retaining all earth embankments. Exterior grades adjacent structures without paving shall slope away from the structure on all sides at |
| ing system.The all not_interfere with and moments_shall be | a minimum slope of 10% for 20 feet. A positive water flow shall be provided for all locations to natural water courses. Provide swales where necessary. No ponding of water shall be allowed. |
| and moments shall be Any foundation re- on <u>d</u> esign <u>capacit</u> y shall | Planters shall not be adjacent structure except when a design is specifically provided. Roof drains shall not empty onto exterior grade within five feet of the foundations. Splash blocks, |
| Solar Change and Sugar | leaders, concrete swales, or other means shall be used to direct water away from the structure for at least 5'-0" from the structure. |
| ovided by the M.B.M. | Deep rooted vegetation shall not be placed closer than 8-0" to the structure. Backfill shall be tested for compaction. Material failing the tests shall be re-compacted and then re- |
| provided by the M.B.M. | tested. Failing tests shall be paid for by the earthwork contractor. One compaction test shall be provided for every 32 cubic yards of backfill material. Compaction densities shall also be made under |
| chanical plans | all foundations where the native earth is scarified and re-compacted. One compaction test shall be made for every 50 linear feet of footing. Deviations from this schedule shall require the approval of |
| idential Code) | the Engineer. |
| c. gust) | |
| ۲ ۲ | WILSON STRUCTURA |
| | LOREN WILL ENGINEERING, INC. |
| | 1235 THOROUGHBRED RD. DURANGO, CO 81303 |
| | 12371 12371 A PROPOSED FOUNDATION DESIGN FOR THE NEW: FILE NAME: |
| | |
| | |
| FINA | PLIMP STATION PROJECT: |
| FOR SNSTRU | CTION (CENERAL STRUCTURAL SPECIFICATIONS) SHEET: |
| JNS I RUV 10-16-201 | AND TYPICAL DETAILS |
| 10-10-201 | DRAWN: CHECKED: DATE: JATE: |

10-16-2019 | OF S2

DW

GENERAL NOTES

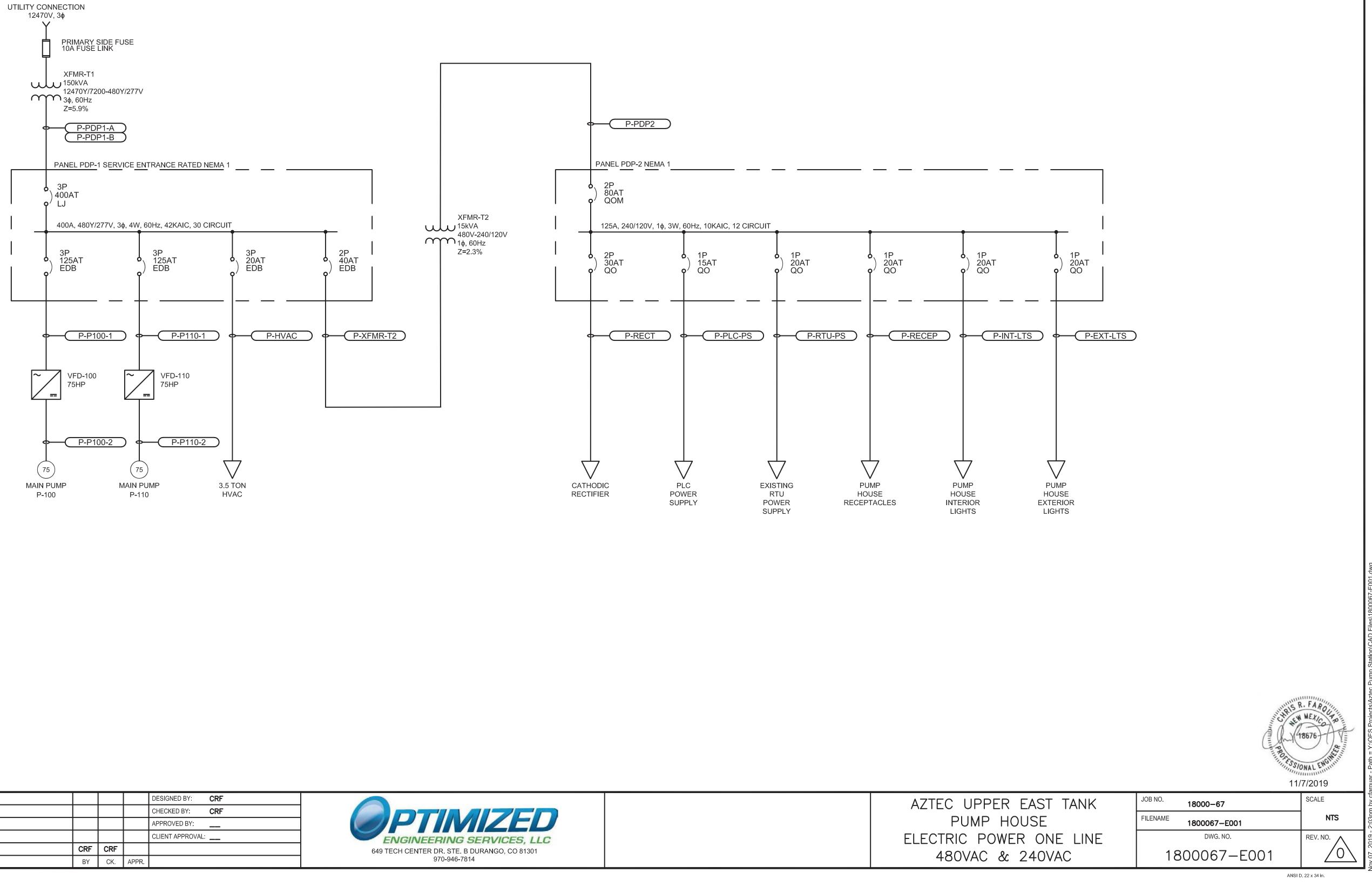
| DRAWING LIST | | | | | | | | | |
|----------------|-----|-----------|----------------------------------|--|--|--|--|--|--|
| DRAWING NUMBER | REV | DATE | D | ESCRIPTION | | | | | |
| 1800067-E000 | 0 | 11/7/2019 | AZTEC UPPER EAST TANK PUMP HOUSE | SHEET TITLE & INDEX | | | | | |
| 1800067-E001 | 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. 18000–67 | SCALE | hv cf |
|-------------------|-------------------------|----------|----------|
| PUMP HOUSE | FILENAME 1800067-E000 | NTS | 2-50nr |
| EET TITLE & INDEX | DWG. NO. | REV. NO. | 010 |
| | 1800067-E000 | | 01 08 21 |



1.

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



| PANEL | | | 400 | AMF | P BU | S | | 480 / 277 VOLTS | | | | | S | URFACE | MOUNTED | | | |
|------------------------|--------------|--------------|--------------|--------------|-------|---------|-------|-----------------|-------|--------------------|---------|-------|--------|--------------|--------------|--------------|---------------------|--|
| LOCATION PUMP HOUSE | | | | 400 AMP MAIN | | | | | | <u>3 / 4</u> PH/WI | | | WIRE | | 42,000 A | | | |
| EQUIPMENT DESCRIPTION | PH A (VA) | PH B (VA) | PH C (VA) | TYPE * | COUNT | BREAKER | POLES | CIR # | CIR # | POLES | BREAKER | COUNT | TYPE * | 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 | M | 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 | | | | | | | | | |
| 75 HP WATER PUMP P-110 | | 26,592 | | M | 1 | 125 | 3 | 9 | 10 | | | | | | | | BLANK | |
| | | | 26,592 | M | 1 | 125 | 3 | 11 | 12 | | | | | | | | | |
| 15 KVA XFMR T-2 | 4,040 | | | L | 1 | 40 | 2 | 13 | 14 | | | | | | | | | |
| | | 3,020 | | L | 1 | 40 | 2 | 15 | 16 | | | | | | | | BLANK | |
| BLANK | | | | | | | | 17 | 18 | | | | | | | | | |
| | | | | | | | | 19 | 20 | - - | | | - | | | | | |
| BLANK | | | | | | | | 21 | 22 | | | | | | | | BLANK | |
| | | | | | | | | 23 | 24 | | | | | | | | | |
| | | | | | | | | 25 | 26 | | | | | | | | | |
| BLANK | | | | | | | | 27 | 28 | | | | | | | | BLANK | |
| | | | | | | | | 29 | 30 | | | | | | | | | |
| * LOAD TYPE | CODE | DEMAND | PH A | PH | B | PH | C | | | N | EUTI | RAL I | BUS: | 100% | | | | |
| LONG CONTINOUS LOAD | L | 100% | 4,040 | 3,0 |)20 | 0 |) | | | C | GROL | IND I | BUS: | 50% | | | | |
| RECEPTACLES | R | 100% | 0 | (|) | (|) | | I | SO. (| BROL | JND I | BUS: | NONE | | | | |
| MISC | 0 | 100% | 0 | (|) | (|) | | | FEEI | DER | SOUI | RCE: | | | | | |
| LARGEST MOTOR | M1 | 100% | 26,592 | | 592 | 26, | | | | | | | | | | | | |
| MOTORS | М | 100% | 31,024 | 31,0 | 024 | 31,0 | 024 | | | | TOT | AL LO | CAD: | 179.9 | KVA | | | |
| STANDBY | S | 0% | 0 | (|) | (|) | | | | | | | | | | | |
| HEATERS | н | 100% | 0 | |) | (| | | | | TOT | AL LO | OAD: | 217 | AMPS | | | |
| KITCHEN | к | 100% | 0 | (| | (| | - | | | | | | | | | | |
| TOTAL LOAD PER PHASE | | | 61,656 | 60,0 | 636 | 57,0 | 616 | | | | | | | | | PANEL: | PDP-1 | |

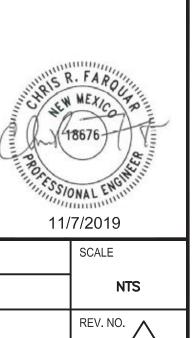
NOTES:

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| | | | | | | 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 | | P BU | S | | 240 | 1 | 120 | | .TS | SURFACE | MOUNTED | | | |
|-----------------------|--------------|------|--------------|--------|-------|---------|-------|-------|-----------------|----------------------------------|---------|---------|---------|--------------|--------------|-----------------------|
| LOCATION | PUMP H | OUSE | | | 80 | | P MA | IN | | 1 / 3 PH / WIRE 10,000 A BRACING | | | | | 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 | D 1,920 | | | L | 1 | 30 | 2 | 1 | 2 | 1 | 30 | 1 | L | 600 | | P/H EXTERIOR LIGHTS |
| CATHODIC RECTITIER | | | 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 | IEUTF | RAL I | BUS: | 100% | | |
| LONG CONTINOUS LOAD | L | 100 | % 3,320 | | | 3,0 | 020 | 1 | GROUND BUS: 50% | | | | | | | |
| RECEPTACLES | R | 60% | 6 720 | | | | 0 | | I | SO. | GROL | IND I | BUS: | NONE | | |
| MISC | Ο | 100 | % 0 | | | (| 0 | | | FEE | DER | soui | RCE: | | | |
| AIR HANDLING EQUIP | M1 | 80% | 6 0 | | | , | 0 | | | | | | | | | |
| MOTORS | М | 100 | % 0 | | | | 0 | | | | тот | AL LO | DAD: | 7.1 | KVA | |
| STANDBY | S | 0% | 6 0 | | | | 0 | | | | | | | | | |
| HEATERS | н | 100 | % 0 | | | | 0 | | | | тот | | DAD: | 29 | AMPS | |
| KITCHEN | К | 100 | % 0 | | | | 0 | | | | | | | | | |
| TOTAL LOAD PER PHASE | | | 4,040 | | | 3,0 | 020 | 1 | | | | | | | PANEL: | PDP-2 |

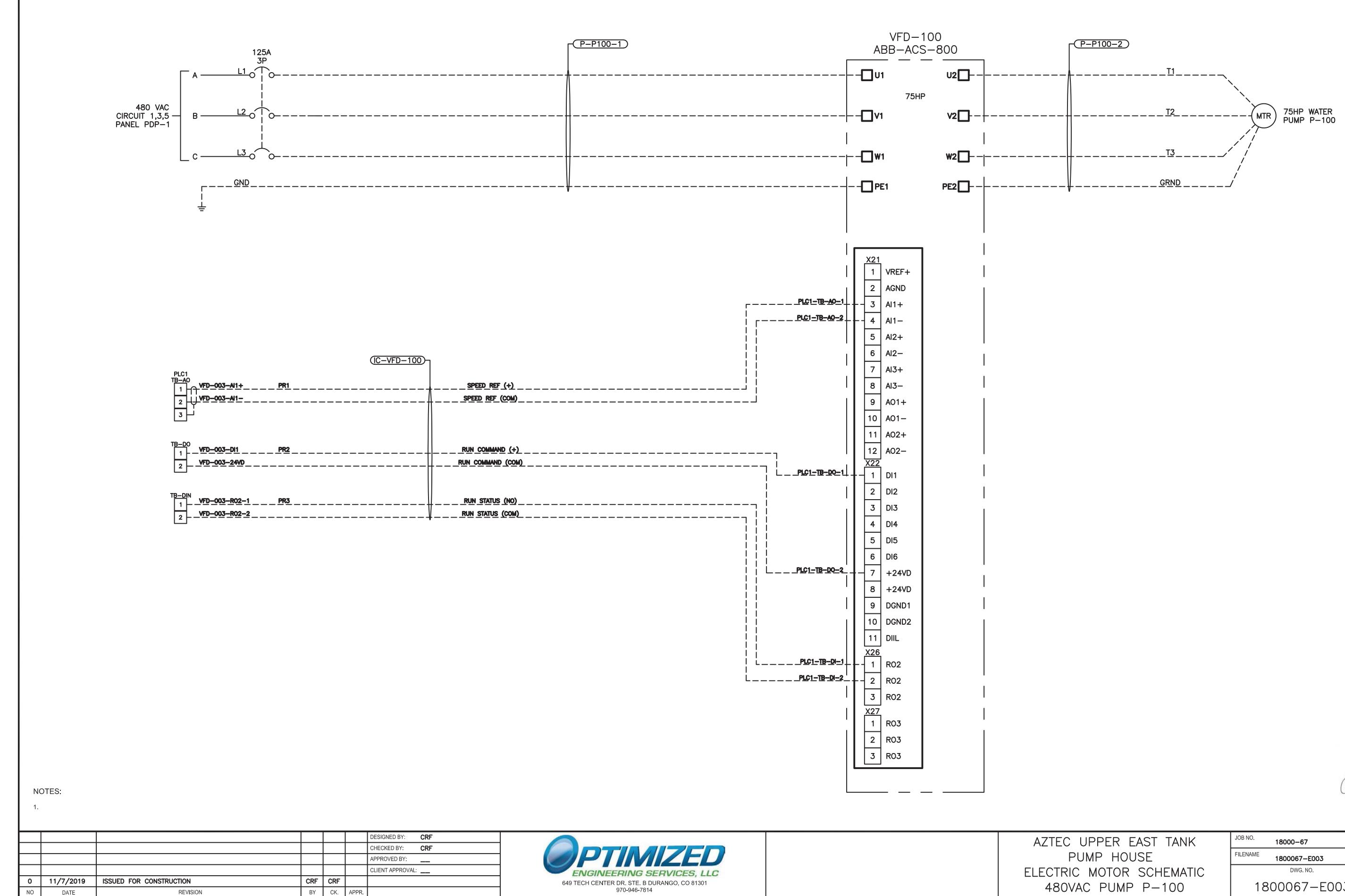




AZTEC UPPER EAST TANK PUMP HOUSE ELECTRIC PANEL SCHEDULES 480VAC & 240VAC

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

ANSI D, 22 x 34 in.



480VAC PUMP P-100



| NO. | 18000-67 | |
|------|--------------|--|
| NAME | 1800067-E003 | |
| | DWG. NO. | |
| 1 | 800067-E003 | |

ANSI D, 22 x 34 in.

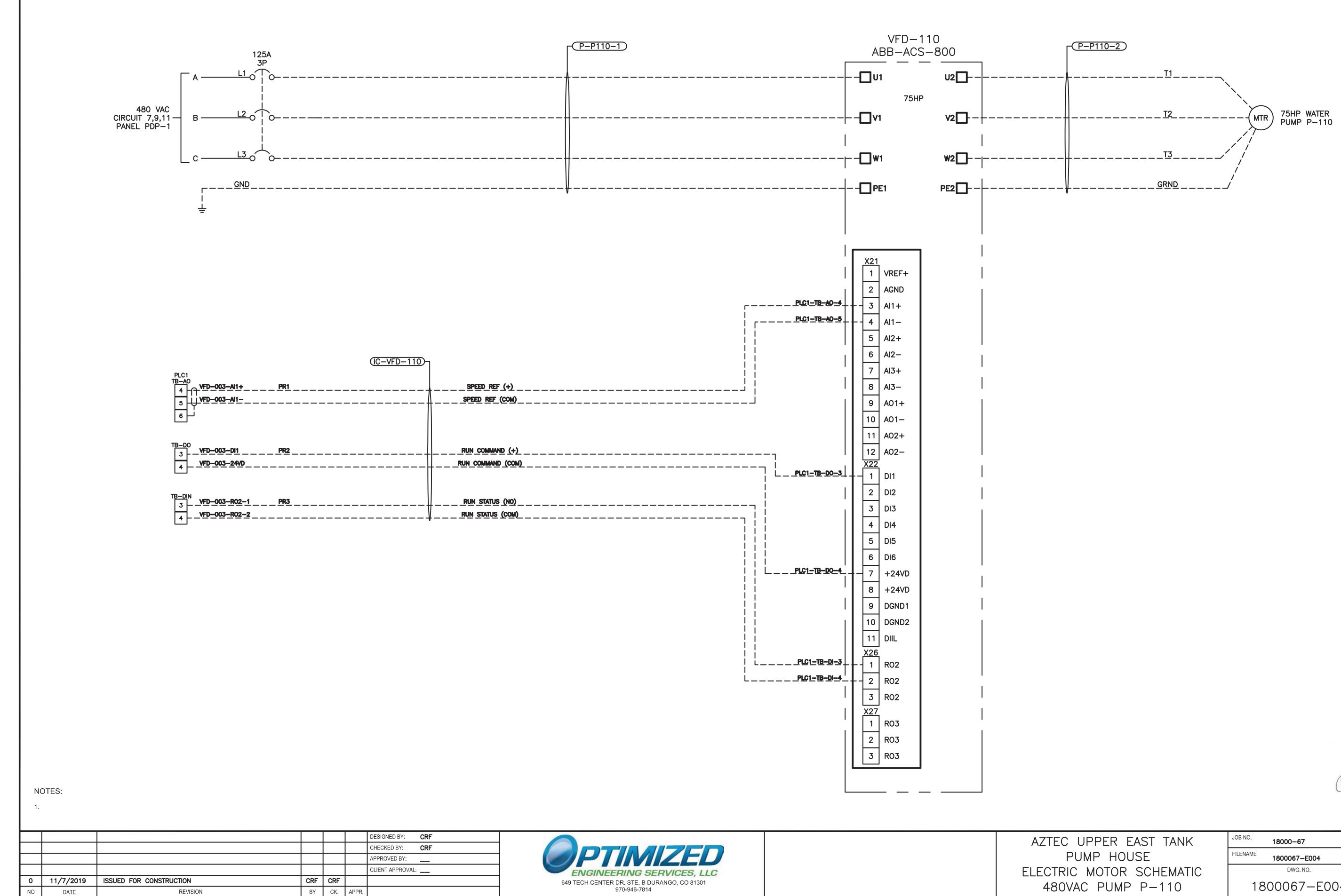
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SCALE

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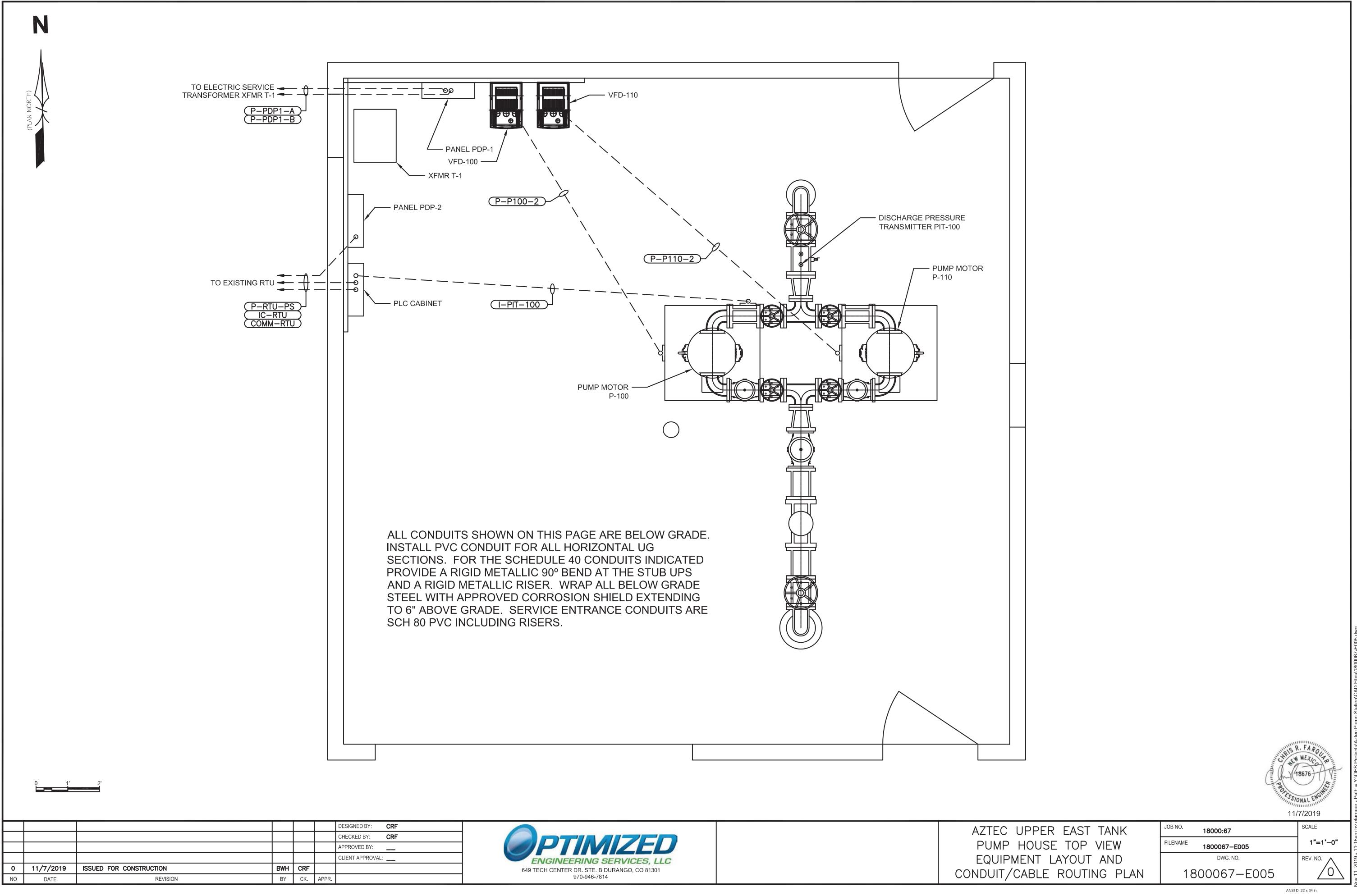
REV. NO. 🔨





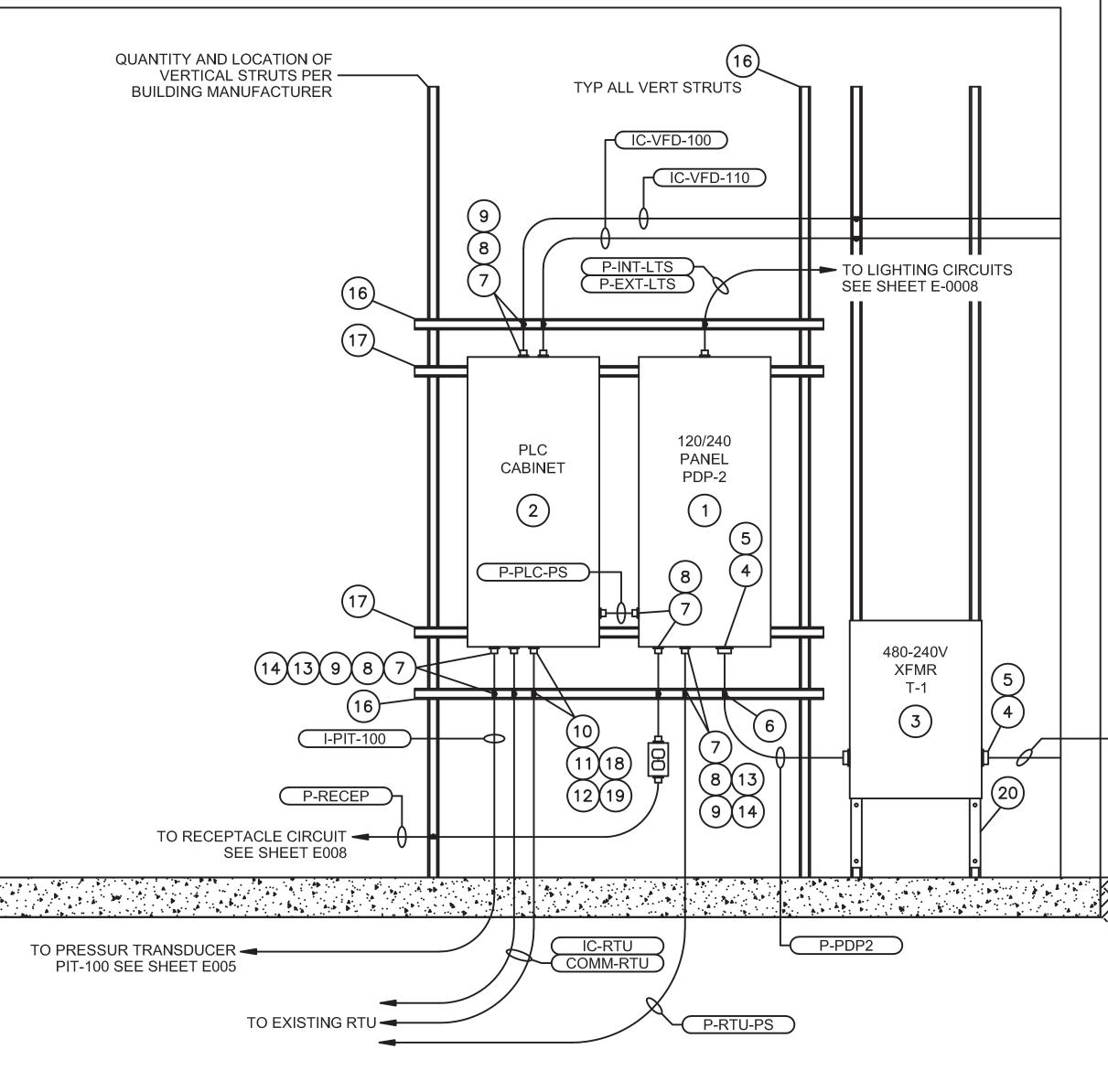
| ^{O.} 18000–67 | SCALE |
|-------------------------------|----------|
| AME 1800067–E004 | NTS |
| DWG. NO. | REV. NO. |
| 1800067-E004 | |

ANSI D, 22 x 34 in.



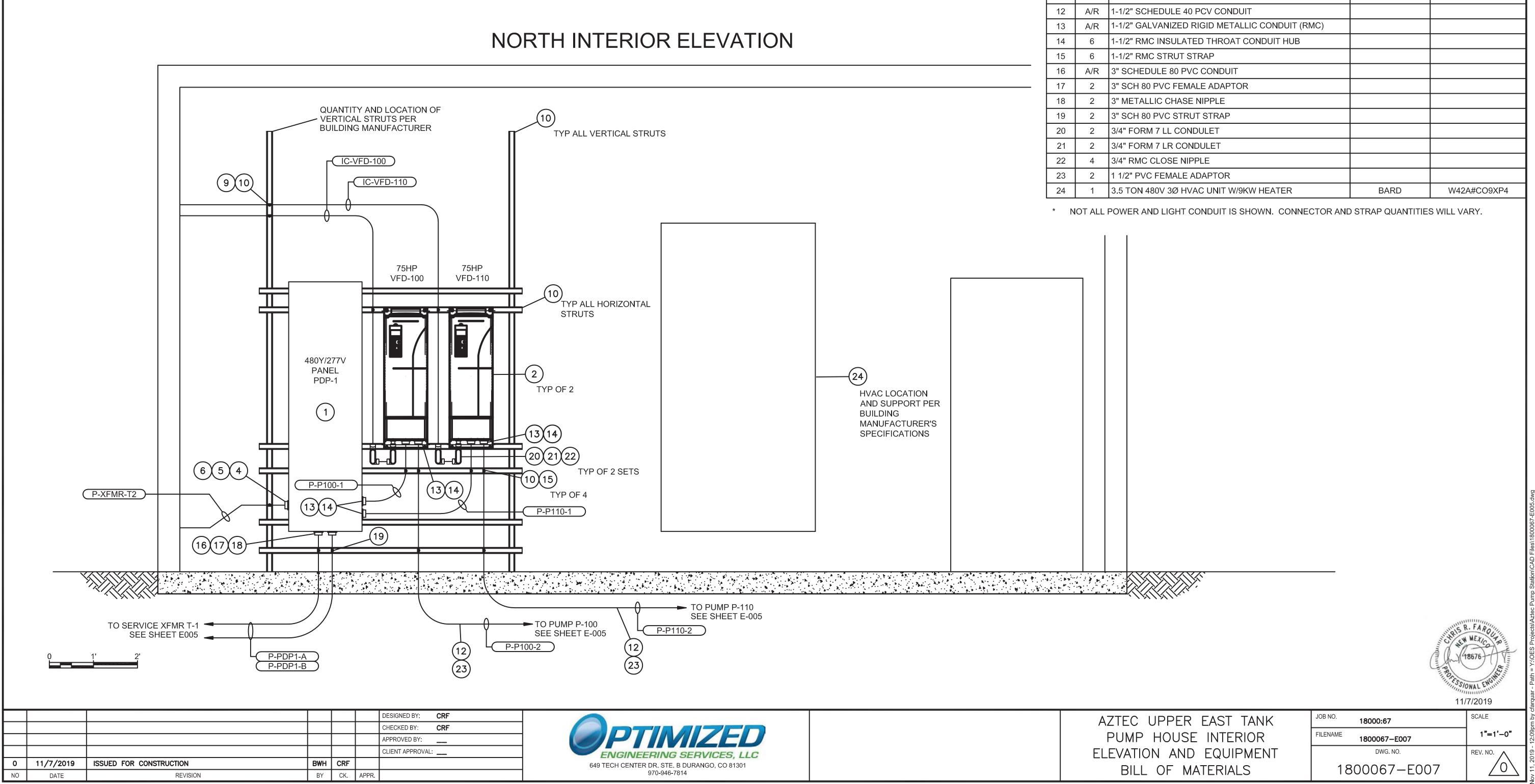
|). | QTY. | DESCRIPTION | MANUFACTU | JRER | PART NUMBER |
|----|----------|---|-----------|---------------------------|----------------|
| | 1 | 125A, 1Ø 3W 240V 30 SPACE PANELBOARD | SQUARE | D | QO112L125G |
| | 1 | VENDOR SUPPLIED PLC CABINET (SUPPLIED BY OTHERS) | | | |
| | 1 | 15KVA, 240/480 X 120/240VAC, DRY TYPE TRANSFORMER | SQUARE | D | EE15S3H |
| | 10 FT | 1" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) | | | |
| | 3 | 1" LFMC INSULATED THROAT CONNECTOR | | | |
| | 1 | 1" LFMC STRUT STRAP | | | |
| | A/R | 3/4" GALVANIZED RIGID METALLIC CONDUIT (RMC) | | | |
| 4 | 10* | 3/4" RMC INSULATED THROAT CONDUIT HUB | | | |
| 4 | 8* | 3/4" RMC STRUT STRAP | | | |
| ┥ | A/R 2 | 1" GALVANIZED RIGID METALLIC CONDUIT (RMC) 1" RMC INSULATED THROAT CONDUIT HUB | | | |
| ┥ | 2 | 1" UNI-STRUT STRAP | | | |
| ┥ | A/R | 3/4" SCHEDULE 40 PVC CONDUIT | | | |
| ┨ | 2 | 3/4" PVC FEMALE ADAPTOR | | | |
| 1 | 2 | 1" UNI-STRUT STRAP | | | |
| 1 | A/R | 1-5/8" X 1-5/8" GALVANIZED STRUT | | | |
| 1 | A/R | 1-5/8" X 7/8" GALVANIZED STRUT | | | |
|] | 2 | 1" SCHEDULE 40 PVC CONDUIT | | | |
| | 2 | 1" PVC FEMALE ADAPTOR | | | |
| | 2 | TRANSFORMER WALL MOUNT BRACKET | SQUARE | D | WMB361362 |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | DESIGNED BY | - |
| | | | | DESIGNED BY CHECKED BY | CRF |

WEST INTERIOR ELEVATION





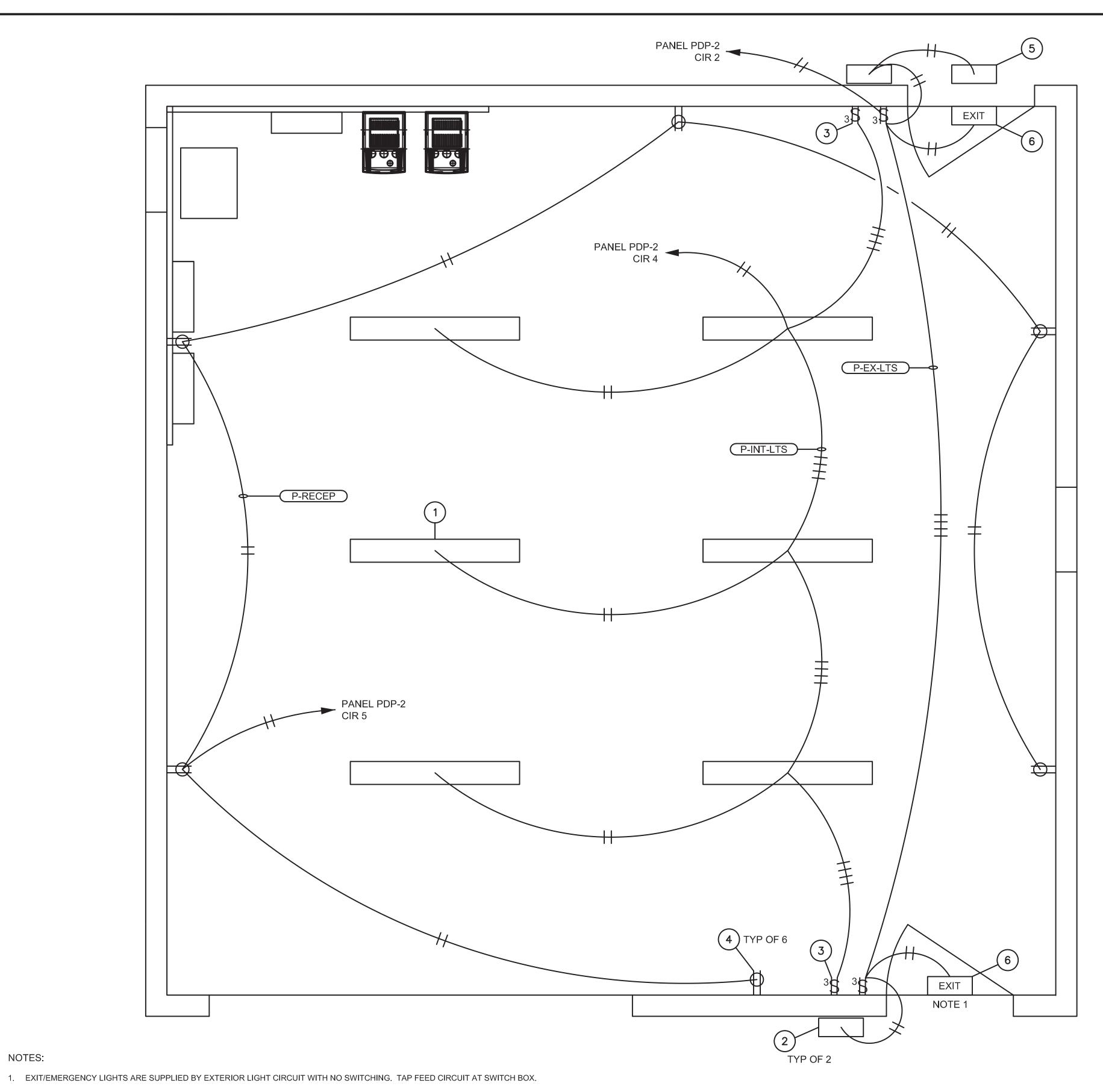
| - P.XFMR-T2 | PROFESSI | R. FAROUTINI MEXICO 18676 0NAL ENGINITION 77/2019 |
|--------------------|-------------------------|---|
| C UPPER EAST TANK | JOB NO. 18000:67 | SCALE |
| IP HOUSE INTERIOR | FILENAME 1800067–E006 | 1"=1'-0" |
| TION AND EQUIPMENT | DWG. NO. | REV. NO. |
| ILL OF MATERIALS | 1800067-E006 | |
| | ANSI | D, 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 Image: Construction 11/7/2019 ISSUED FOR CONSTRUCTION BWH CRF |

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 |



| AZ | Τ | E | (|
|----|---|---|---|
| | | | |

EC UPPER EAST TANK PUMP HOUSE LIGHTING & POWER PLAN





JOB NO.

FILENAME 1800067-E008 DWG. NO. 1800067-E008

18000:67

ANSI D, 22 x 34 in.

| | | | ELEC | FRICAL 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. | |



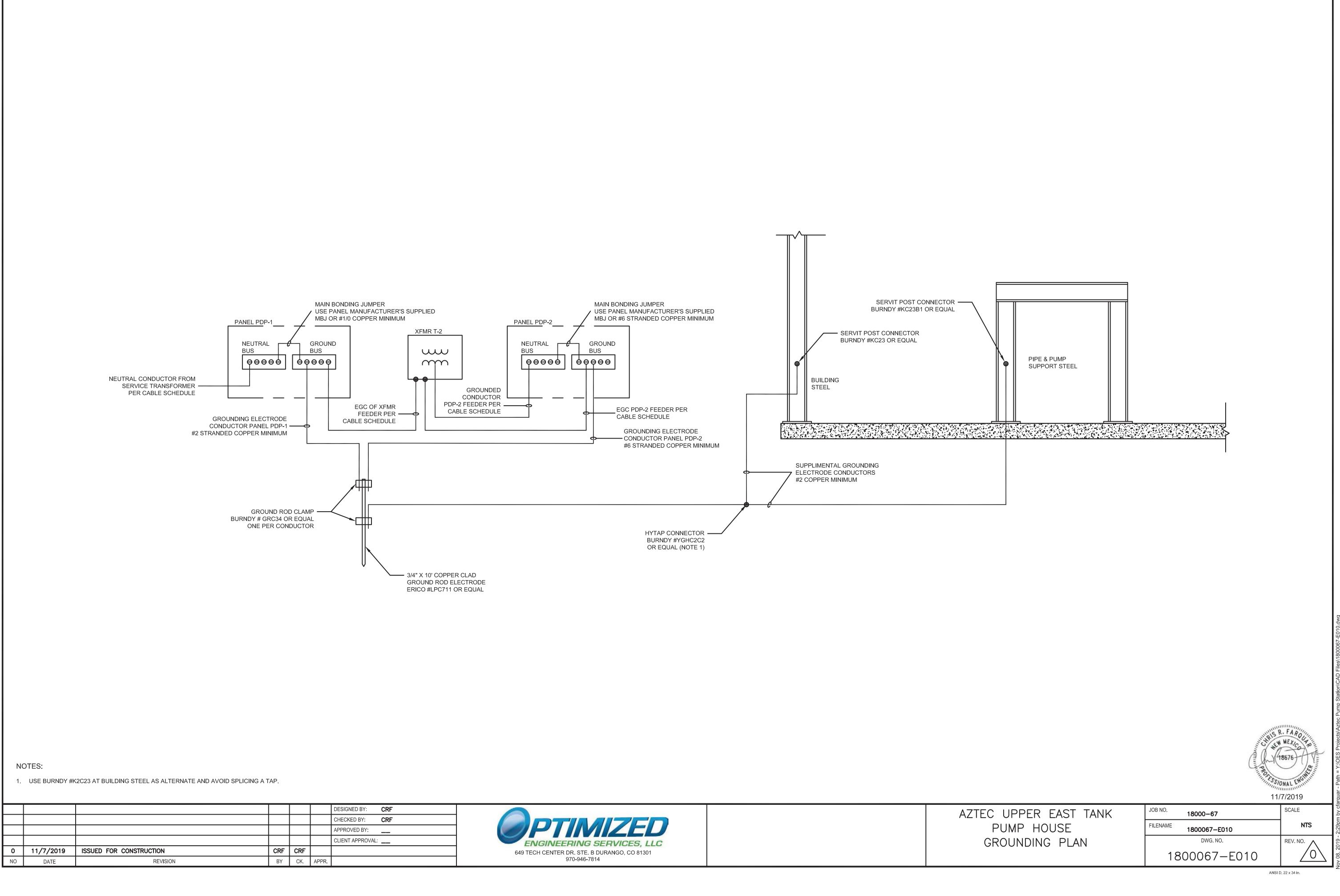


AZTEC UPPER EAST TANK PUMP HOUSE ELECTRIC CONDUIT & CABLE SCHEDULE

| JOB NO. 18000–67 | |
|-------------------------|-------|
| FILENAME 1800067-E | 009 |
| DWG. NC | |
| 1800067 | -E009 |

REV. NO. 🔨

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| AZTEC |
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