

East Aztec Water Pump Station
ITB # 2020-735

Addendum #2
April 1, 2020



NOTICE TO BIDDERS

The following corrections, revisions, additions, and/or information for the above referenced project and shall be incorporated into the Plans, Specifications, and/or Contract Documents for the project as described below. The corrections, revisions, additions, and/or information shall henceforth be regarded as an integral part of the project, carrying the same weight and force as original sections of the plans, specifications, and/or contract documents.

Ensure that you indicate receipt of this Addendum on your Bid.

Due to the recent development of the COVID-19 Virus in New Mexico and guidance from the Governor, bids and proposals must be submitted via Vendor Registry. The link to Vendor Registry is available on the City's website, right side of page:

<http://www.aztecnm.gov/purchasing.html>

Last Day for Question: **Thursday, April 9, 2020 10:00 AM**
Bid Due Date: **Monday, April 20, 2020, 3:00 PM**
Bid Opening Date: **Tuesday, April 21, 2020 3:00 PM**

Bid opening will be closed for public attendance to maintain social distancing and public gatherings requirements; however, the opening will be broadcast on YouTube, search for City of Aztec live stream.

This addendum extends the dates for questions, bid due date, bid submission requirement and bid opening date. Revised building foundation plans (2 pgs) are included, wage decision with prevailing rate schedules, and responses to questions received since addendum #1 was issued.

Questions:

1. Is there a list of customer supplied equipment? Such as pump motor, etc.

All equipment listed and required for a fully operating pump station will be contractor supplied unless specifically stated in the plans as owner-supplied.

2. Item #6 of Addendum #1 calls the building panel & trim colors to be "BLM regulations of Carlsbad Canyon Tan." The BLM colors, are an above "premium" color and typically cost more than the standard color or premium "kynar" colors and generally are a very long lead time.

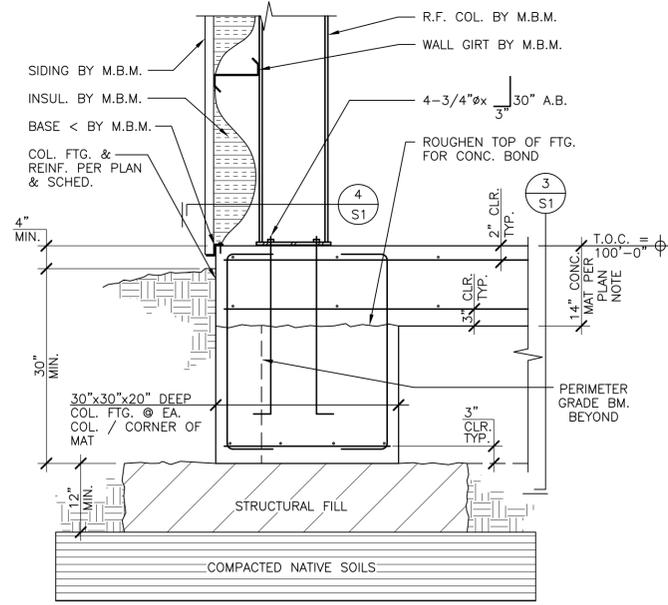
Our standard colors include a "tan" and "buckskin" colors which have been approved as an equal on other projects. This is a product we produce in house. Another option would be the Metal Sales color "Carlsbad Canyon"(see attached color chart) which is a stand color and readily available. It too has been successfully been approved as an equal for the BLM colors, without the premium costs and extra lead times.

We possibly can provide for the Standard B&C colors and option for Metal Sales Carlsbad Canyon.

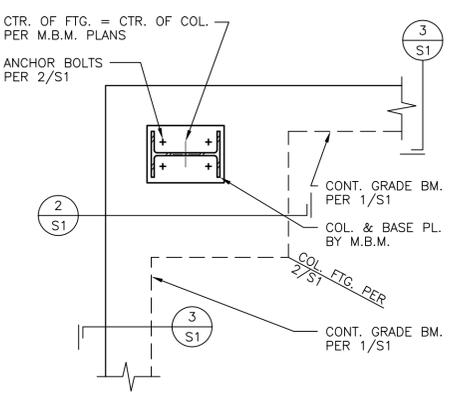
Both the B&C Tan and the Metal Sales Carlsbad Canyon appear to match Carlsbad Canyon (2.5Y 6/ 2).

End Addendum #2

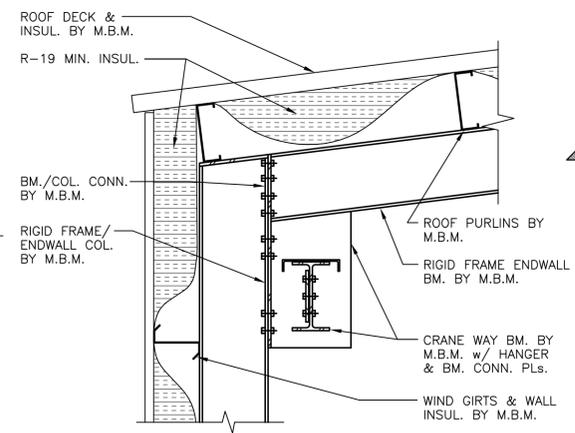
Issued 04-01-2020
Kathy Lamb
Finance Director



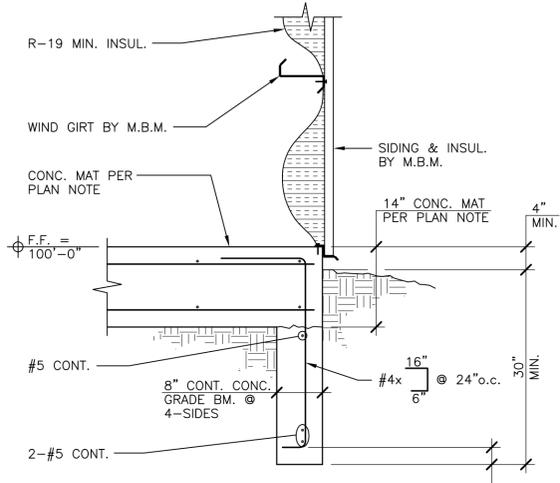
2 TYP. COL. FOUNDATION
(NOT TO SCALE)



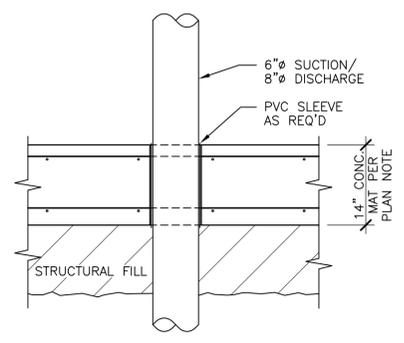
4 M.B. COL. & FTG.
(PLAN VIEW)
(NOT TO SCALE)



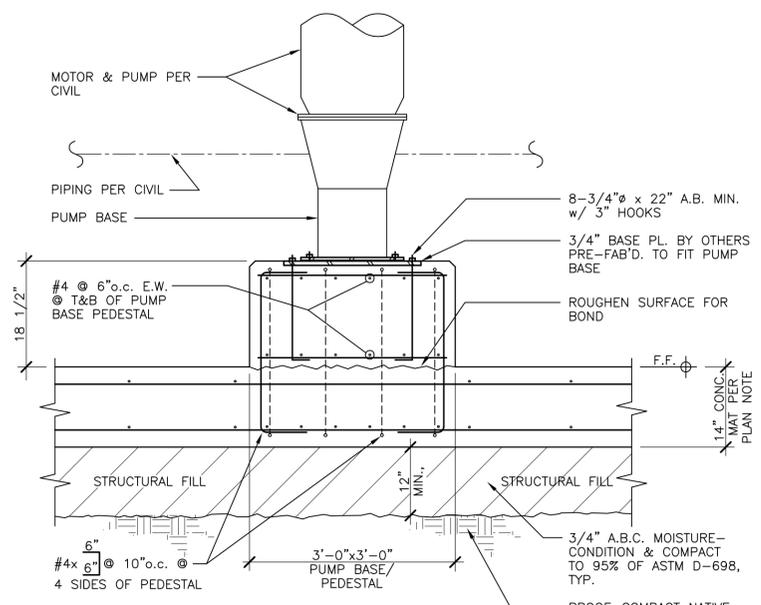
1 TYP. M.B. RIGID FRAME & CRANEWAY BM. CONNS.
(NOT TO SCALE)



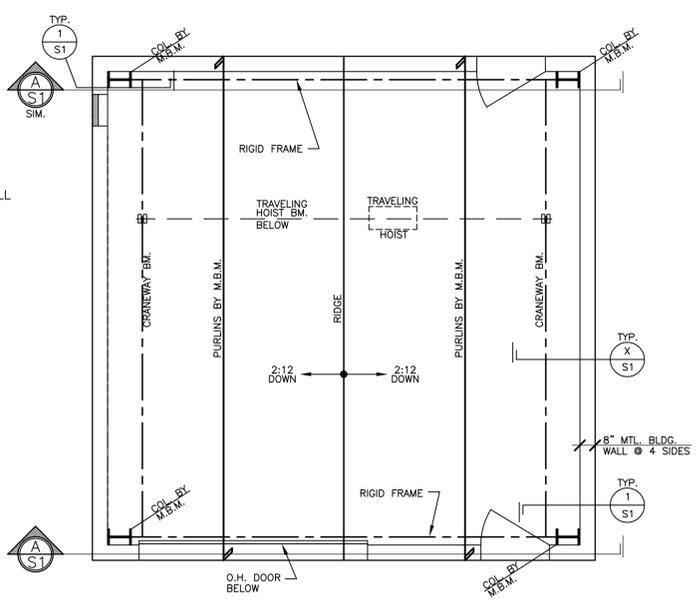
3 TYP. PERIMETER GRADE BM.
(NOT TO SCALE)



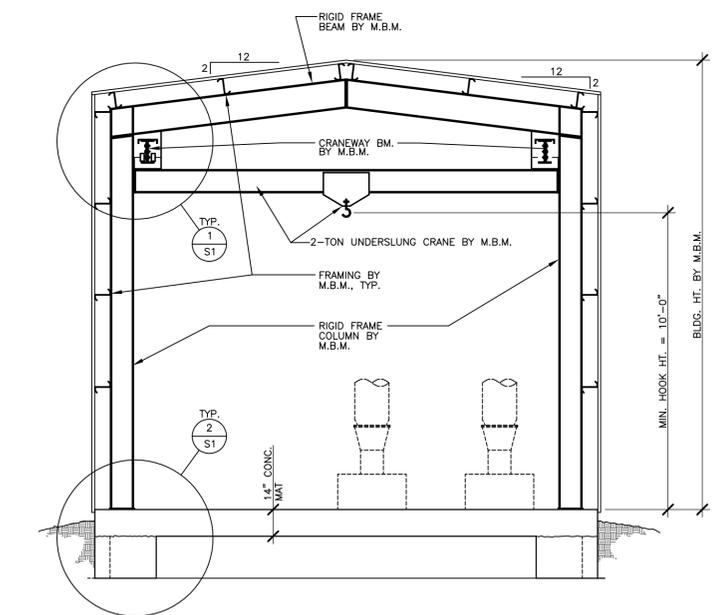
6 SLAB DTL. @ SUCTION & DISCHARGE LINES
(NOT TO SCALE)



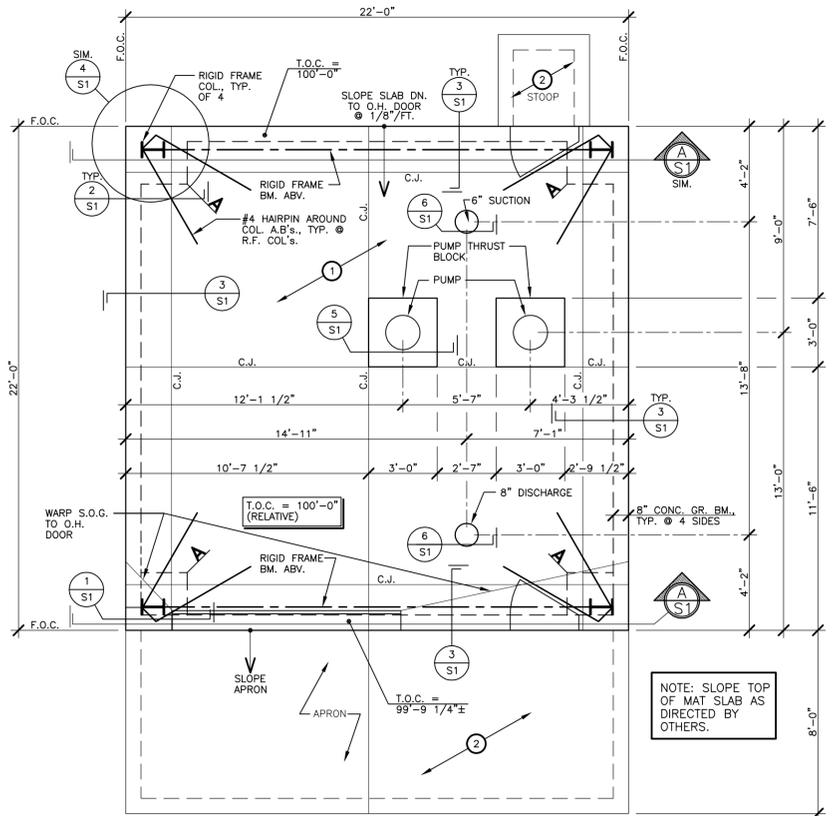
5 PUMP BASE / THRUST BLOCK
(NOT TO SCALE)



ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



BLDG. SECTION @ ENDWALLS
SCALE: 1/4"=1'-0"



FOUNDATION PLAN
SCALE: 1/4"=1'-0"

FOUNDATION NOTES:

- SEE DETAIL 2&5/S1 FOR TYPICAL MINIMUM EARTHWORK REQUIREMENTS AT FOUNDATIONS AND SLABS. SEE 'EARTHWORK FOR FOUNDATION' NOTES ON SHEET S2 FOR ADDITIONAL REQUIREMENTS.
- SEE SHEET S2 FOR STRUCTURAL SPECIFICATIONS, GENERAL STRUCTURAL NOTES, CONSTRUCTION REQUIREMENTS AND TYPICAL DETAILS NOT SPECIFICALLY REFERENCED BUT WHICH SHALL APPLY TO THE APPROPRIATE CONDITIONS.
- T.O.C. = FINISHED FLOOR ELEVATIONS = TOP OF CONCRETE SLAB-ON-GRADE ELEVATION
- SEE PLANS BY METAL BUILDING MANUFACTURER (M.B.M.) FOR SPECIFIC ANCHOR BOLT LOCATION DIMENSIONS.
- DIMENSIONS ARE TO OUTSIDE FACE-OF-CONCRETE AND TO CENTERLINES OF FOOTINGS AS INDICATED, U.N.O.
- SEE METAL BUILDING NOTES ON S2 FOR DESIGN LIMITATIONS FOR ALLOWABLE DEFLECTIONS FOR THE BUILDING SUPERSTRUCTURE, (WHICH SHALL BE DESIGNED AND PROVIDED BY OTHERS).
- LATERAL BRACING SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE M.B.M. PLANS.
- FOUNDATIONS ARE DESIGNED FOR COLUMNS/GIRTS TO BE PROVIDED IN A 'BY-PASS FRAMED' CONDITION @ ENDWALLS AND SIDE-WALLS PER M.B.M. PLANS.
- FOUNDATIONS ARE DESIGNED FOR WALL GIRT FRAMING TO COL'S. AS INDICATED IN METAL BUILDING DRAWINGS. FINAL SEALED METAL BUILDING DRAWINGS (PDFS), SHALL BE PROVIDED TO THE ENGR. FOR REVIEW & APPROVAL BEFORE ANY CONSTRUCTION BEGINS.
- C.J.: CONTRACTION JT. IN CONC. S.O.G.

FOUNDATION KEYED NOTES:

- INTERIOR CONC. MAT FOUNDATION PER TYP. INT. MAT FDN. NOTE ON THIS SHEET.
- OPTIONAL EXTERIOR CONC. S.O.G. PER TYP. EXT. S.O.G. NOTE ON THIS SHEET, EXTENT & LOCATION AS DIRECTED BY THE OWNER

FOOTING SCHEDULE

TYPE	SIZE	REINFORCEMENT
A	3'-0" x 3'-0" x 20" THICK	#5 @ 8"o.c. E.W. @ BOT.

TYP. CONCRETE MAT / SLAB:

- TYPICAL INTERIOR MAT FOUNDATION:
- 14" THICK CONC. w/ f'c = 4000 psi MIN. @ 28 DAYS.
 - REINFORCE w/ #2 GR.60 @ 18"o.c. E.W. @ TOP & BOT. MATS
 - PLACE ON 12" OF COMPACTED STRUCTURAL FILL
- TYPICAL OPTIONAL EXTERIOR S.O.G. APRON / STOOP:
- 5" THICK CONC. w/ f'c = 4000 psi MIN. @ 28 DAYS.
 - REINFORCE w/ #4 @ 18"o.c. E.W. @ CTR. OF THICKNESS.
 - PLACE ON 6" OF 3/4" A.B.C. COMPACTED TO 90%.
 - SLOPE DOWN AND AWAY FROM BLDG. @ 1/4" MIN. PER FOOT
 - THICKENED EDGES AROUND PERIMETER PER DTL. 7/S2



REVISED FOR CONSTRUCTION
3-10-2020

WILSON STRUCTURAL ENGINEERING, INC.
1235 THOROUGHBRD RD.
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Phone: (970) 385-6774

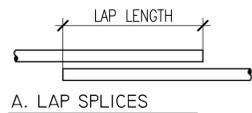
A PROPOSED FOUNDATION DESIGN FOR THE NEW:

AZTEC PUMP STATION
AZTEC, NEW MEXICO

FOUNDATION & ROOF PLANS & DETAILS

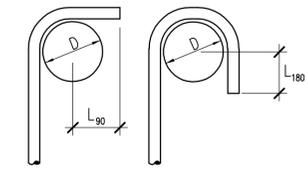
DRAWN: GW CHECKED: DW DATE: 3-10-2020

FILE NAME: 06419.S1
PROJECT: 06419
SHEET: S1 OF S2



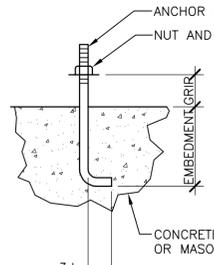
A. LAP SPLICES

LAP SPLICE SCHEDULE		
BAR SIZE	LAP LENGTH	LAP LENGTH
# 3	18"	
# 4	24"	
# 5	30"	
# 6	40"	
# 7	54"	
# 8	70"	



B. BENDS AND HOOKS

BEND AND HOOK SCHEDULE			
BAR SIZE	D	L ₉₀	L ₁₈₀
3	2-1/4"	4-1/2"	2-1/2"
4	3"	6"	2-1/2"
5	3-3/4"	7-1/2"	2-1/2"
6	4-1/2"	9"	3"
7	5-1/4"	10-1/2"	3-1/2"
8	6"	12"	4-1/2"



1 TYPICAL ANCHOR BOLTS (NOT TO SCALE)

EMBEDMENT SCHEDULE (U.N.O.)	
A.B. DIAMETER	MINIMUM EMBEDMENT
1/2"	5"
5/8"	6"
3/4"	8"
1"	12"

NOTES:
1. SEE PLANS FOR SPECIFIC LENGTHS AND EMBEDMENTS
2. FOUNDATION SILL PLATES SHALL BE ATTACHED WITH ANCHOR BOLTS HAVING A MIN. EMBEDMENT OF 7".

NOTICE:

These plans by Wilson Structural Engineering, Inc. are only of the foundation design. 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.

ABBREVIATIONS

- A.A. = Adhesive anchor
- A.B. = anchor bolt
- EXP = expansion
- ABC = aggregate base course
- ABV = above
- ADJ = adjacent
- AGG = aggregate
- ARCHT = architect
- B.B. = bond beam
- B.F. = bottom of footing elev. or = backfill
- BLK = block
- BLDG = building
- BLKG = blocking
- BM = beam
- BRG = bearing
- BTWN = between
- BU = built-up
- CJ = construction joint or = contraction joint
- CLO = ceiling
- CMU = concrete masonry unit
- COL = column
- CONC. = concrete
- CONN. = connection
- CONT. = continuous
- CONTR. = contractor
- CTR = center
- CTRD = centered
- DAS = deformed anchor stud
- DBL = double
- D.F. = Douglas Fir - Larch
- DIA. = diameter
- DL = dead load
- DTL = detail
- DWG = drawing
- DWL = dowel
- EA = each
- EE = each end
- E.F. = each face
- E.J. = expansion joint
- ENGR. = engineer
- EQ. = equal
- E.S. = each side
- E.W. = each way
- OR = over
- EXT = exterior
- FDN = foundation
- FF = finished floor elevation
- F.J. = floor joint
- FG = finished grade elevation
- F.O. = face of
- FOC = face of concrete
- FOS = face of stud
- FWM = face of masonry
- FRMG = framing
- F.S. = far side
- FTG. = footing
- GA = gage
- GALV = galvanized
- GB = 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 = masonry
- MAT = material
- M.B.M. = metal building mfr.
- Mfr. = manufacturer
- MIN = minimum
- NA = not applicable
- NLG = nailing
- N.S. = near side
- NTS = not to scale
- OR = over
- O.C. = on center
- O.H. = opposite hand
- OPNG. = opening
- OSB = oriented strand board
- PC = precast
- PL = plate
- PLYWD = plywood
- PNL = panel
- PT = pressure treated
- REINF. = reinforcing
- R.J. = roof joint
- 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

- Concrete shall be made from an approved commercial mix of aggregates, potable water and Portland Cement (type I) meeting ASTM C150 specifications. Admixtures meeting appropriate ASTM requirements may be used when approved by the Engineer.
- The Concrete shall have a minimum of 517 lb. of Portland Cement per yard and have a maximum water to cementitious material ratio of 0.52. Fly ash meeting ASTM specifications may be substituted for up to 15% of the Portland Cement in the mix designs at ratio of 1.1 lb. of fly ash for 1.0 lb. of Portland Cement. The Concrete Mix design shall be provided to the Engineer for approval.
- Concrete shall have the following minimum compressive strengths (F_c) in 28 days:
 - footings, stemwalls..... 4000 psi
 - interior mat / slabs on grade..... 4000 psi
 - exterior slabs on grade..... 4000 psi
- Provide the following minimum thickness of concrete coverage around reinforcement:
 - footings:
 - to earth..... 3"
 - to formed surfaces..... 2"
 - slabs:
 - to earth..... 1"
 - stemwalls:
 - interior face..... 3/4"
 - exterior face..... 1 1/2"
 - face exposed to earth..... 2"
- Maximum allowable slump of concrete at the point of placement shall be 4" unless specifically approved otherwise by the Engineer and designed accordingly.
- All concrete (including slabs-on-grade) shall be thoroughly consolidated by mechanical vibration.
- Reinforcing bars shall conform to ASTM A615. Reinforcing to be welded shall conform to ASTM A705:
 - #3 to #5..... grade 40 (U.N.O.)
 - #6 to #11..... grade 60
- All reinforcing, anchorages and embedments shall be securely wired in place during concrete placement.
- Reinforcing shall not be heated to be bent.
- See typical details for reinforcing bending and splicing requirements.
- Reinforcing shall be held above earth on concrete adobes, chairs or by suspension. Bars driven into the earth shall not be used to support reinforcing.
- All openings in slabs or walls shall be reinforced with a minimum of 2-#5 on 4 sides extending 2'-0" minimum beyond opening corners.
- Chamfer all exposed concrete edges unless detailed or noted otherwise.
- Openings in concrete shall be formed, cored or sawcut. Chipping and breaking out shall not be done unless specifically approved.
- Concrete exposed to freezing environment either during construction or in place shall be air entrained. Air entrainment of the mix shall be 5% minimum to 8% maximum based on volume.
- Typical slab on grade: See sheet S1 for different slabs and their locations.
- Concrete Curing: Final concrete quality is highly dependent on curing. Inadequate curing can cause excessive shrinkage, cracking, low strength, slab curling and other detrimental effects. Concrete shall be cured as follows: slabs shall be moist cured with water and an impermeable barrier or with a water saturated cover. No portion of the slab shall be allowed to dry for 7 days. Other concrete shall be moist cured or cured with a curing compound conforming to ASTM C309 applied immediately after form work is removed. Special protection measures shall be provided during windy and/or hot conditions to prevent rapid drying before curing procedures can begin. Inadequately cured concrete will be adequate cause for rejection.
- Cold weather protection: Concrete shall not be allowed to freeze. Concrete temperature shall be maintained above 40 degrees for the first 7 days. The criteria presented in these notes and the specifications are minimum requirements for the concrete mix design. These minimums will not be adequate in all conditions of cold weather concreting. It shall be the responsibility of the General Contractor to provide additional means to insure the concrete doesn't freeze, remains above 40 degrees for a minimum of 7 days, achieves the minimum required strength and remains durable and serviceable. Additional measures which may include, but are not limited to: insulation and protection blankets, testing and heating accelerating admixtures, and addition of Portland Cement in the mix design above the minimum requirement.
- Concrete shall be tested as follows: 3 standard ASTM Concrete test cylinders shall be made for every 75 cubic yards of placed concrete with a minimum of 3 cylinders cast for each day that concrete is placed. One slump and one air entrainment test shall be made for each set of cylinders made. The engineer shall be notified immediately of failing tests. Deviations shall not be made from this schedule without the consent of the Engineer.

GENERAL NOTES

- 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.
- 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 case, all changes may be required before work can proceed.
- The plans shall not be scaled to obtain working dimensions. If dimensions are missing from the plans get clarification from the Engineer. Cross-check all dimensions with the Metal Building Manufacturers plans. All layout dimensions shall be closed from both directions.
- All openings or modifications to structure not shown on the structural plans shall be verified with the Engineer before doing the work.
- 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.
- Construction shall follow the plans, details, notes and specifications. The Contractor shall be directly responsible for the protection of the structure and deviations from the Engineers approval. The Engineer will be available for considerations and repairs. Excessive repair detailing or revision to the contract documents shall be paid for by the Contractor.
- Each sub-contractor shall inspect the conditions and work in place before they begin. Errors, 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.
- When shop drawings and product information are required for review by the Architect/Engineer, the 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 reproducible shall be included with 3 sets of blueprints for mark-ups and stamping. The reproducible will be returned to the Contractor to allow for his printing of as many sets of marked-up drawings as he shall require.

DESIGN CRITERIA

- Superimposed Design Loads:
 - Roof DL = 10 psf..... For foundation design only
 - Roof Snow Load = 25 psf (importance factor I_s = 1.0)
- Applicable Building Code = 2015 International Building Code
- Wind Load:
 - a) Basic wind speed..... 115 mph (3 sec. gust)
 - b) Exposure category..... C
 - c) Importance factor (I_w)..... 1.0
- Seismic Load:
 - a) Use Group..... II
 - b) Site Class..... D
 - c) Short Period Spectral response (S_s)..... 17.9% g
 - d) Importance factor (I_e)..... 1.0
- Earthwork per 'Earthwork for Foundations' on this sheet.

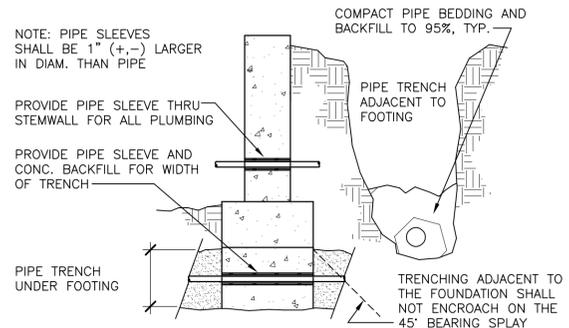
SPECIALTY CONNECTIONS / ANCHORAGES / FASTENERS

- Expansion bolts, adhesive anchors, shotpins, headed anchor studs (HAS), self-tapping screws and other proprietary devices shall have ICCB approvals. These approvals along with load capacities and use information shall be submitted to the Engineer when materials other than those specified are proposed.
- Devices shall be used in full accordance with manufacturer's requirements.
- Headed anchor studs shall be welded all around the base of the stud with a 5/16" fillet unless noted otherwise. Stud guns may be used provided the attachment will develop the strength of the stud.
- Typical acceptable anchors (when called out in plans) unless noted otherwise:
 - Expansion Bolts: 5/8" diameter by Hilti or Redhead with a minimum embedment of 4"
 - Shotpins: 0.145" diameter minimum by Hilti or Ramset with 1" minimum embedment in concrete and a minimum safe working load in shear of 200 lb.
 - Headed Anchor Studs: 1/2" diameter x 6" long by Nelson Stud
 - Adhesive Anchors: Hilti HIT or HVA system sized for bolts required
 - Self-Tapping Screws: #10 TEK screws

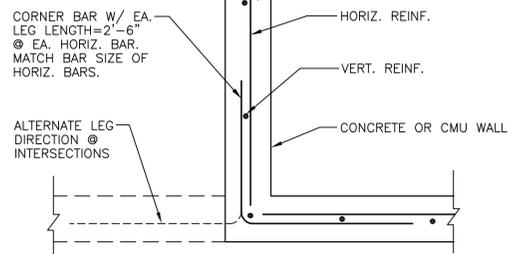
EARTHWORK FOR FOUNDATIONS

- 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 = 1500 psf
- 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 fill shall be compacted to a minimum of 90% of ASTM D-1557. See minimum earthwork detail A/S1 for specifics.
- Unless noted otherwise footings shall bear a minimum of 30" below lowest adjacent grade and 12" minimum below original native grade unless approved otherwise.
- 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 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% 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.
- 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 the machinery used.
- Backfill shall be uniformly moisture controlled to maintain specified compaction densities.
- 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 optimum moisture content plus or minus 3% unless noted otherwise.
- Foundations shall be constructed of concrete cast in clean trenches cut or neatly 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. Reinforcement shall not be supported on bars driven into the earth. It shall be supported on approved chairs or adobes or suspended from above.
- 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 as directed by the Soils Engineer and replaced with compacted engineered material. Geotextile fabric shall be provided for stabilization when conditions dictate.
- Water shall not be allowed from any source to accumulate in excavations. The Contractor shall provide de-watering.
- 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 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.
- 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, leaders, concrete swales, or other means shall be used to direct water away from the structure for at least 5' from the structure.
- 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-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 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 the Engineer.

2 TYPICAL REINFORCING DETAILS FOR CONCRETE REINFORCEMENTS (NOT TO SCALE)

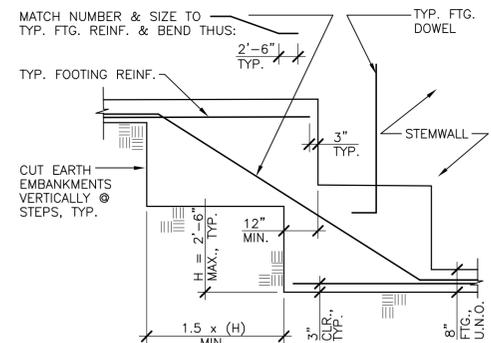


4 TYPICAL PIPING AND TRENCHING AT FOUNDATIONS (NOT TO SCALE)

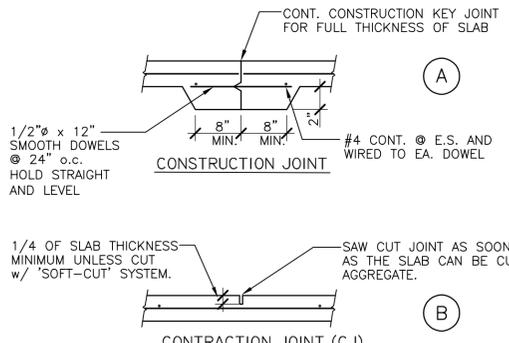


3 TYPICAL CONCRETE WALL CORNER REINFORCING (NOT TO SCALE)

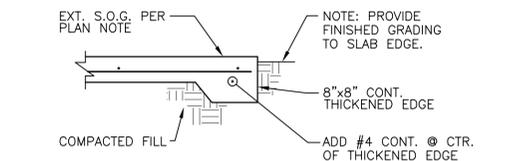
NOTE: TYPICAL JT. SPACING SHALL BE 15'-0" O.C. (+,-) AND 20"-0" MAX. w/ ENGINEER'S APPROVAL, U.N.O. ON PLANS.



6 TYPICAL STEPPED FOOTING DETAIL (NOT TO SCALE)



5 TYP. JOINTS IN CONC. SLABS (NOT TO SCALE)



7 TYP. EXTERIOR SLAB EDGE (NOT TO SCALE)

METAL BUILDING

- All dimensions for footing locations, anchors bolts, and all other entities of the foundation system shown relative to the metal building connections shall be cross-checked and verified with the final shop drawings by the Metal Building Manufacturer before excavation, earthwork or forming is begun.
- If the Metal Building Manufacturer wishes to use an alternate framing layout to that which has been assumed and designed for in this set of structural plans, the metal building design engineer shall notify Wilson Structural Engineering before submitting the shop drawings and calculations. Otherwise, the shop drawings will be rejected.
- All structural components and the lateral resisting systems shall be designed for the loads, factors, and criteria described in the contract documents.
- Concentrated loads such as mechanical units and any others which are not specifically shown in the structural plans but are supported by the metal building structure shall be accounted for in the design of the supporting members. The Owner shall coordinate the location and weights with the Metal Building Manufacturer (M.B.M.).
- The metal building design shall be done under the direct supervision of an Engineer experienced in the design of metal buildings for at least 5 years. The Engineer shall be licensed in the state where the building is to be erected and shall stamp and sign the calculations, shop drawings and erection drawings. Stamped copies shall be submitted to the Architect for approval before production according to the specification requirements.
- Structural steel shall be detailed, fabricated, and erected in accordance with the AISC manual for steel construction, the latest edition, using either the ASD or LRFD design. The metal building design shall also be in conformance with the "Metal Building System Manual" by the Metal Building Manufacturer's Association. The most stringent criteria for design shall apply when there is differences between the two standards.
- Minimum anchor bolts sizes shall be determined by the M.B.M. and shown in the erection drawings based on the design requirements for the superstructure. Anchor bolts of greater size may be required governed by the foundation design. The contractor shall provide the largest size governing the design.
- All required field modifications required shall be brought to the attention of the Architect and Engineer. Repairs shall be approved. Specific repair details may be required. The expense of the repair design and detailing shall be borne by the Contractor.
- Reactions of all metal building components directly supported by the foundation shall be reported in the calculations for approval and comparison to design assumptions. The reactions shall include the loads from each individual load case with a description of case.
- Deflection of flexural members due to gravity loads shall not exceed the span divided by 240, (L/240). Deflection of the lateral system shall not exceed 1.0" under wind or seismic loads unless approved otherwise by the Architect or Engineer.
- The deflection limits of 10. above for gravity loads are for total dead load plus snow load.
- The M.B.M. shall determine, design, and locate the buildings lateral load resisting system. The system shall limit movements to those described in 8. above. Components shall not interfere with windows, doors or other architectural features. All lateral shears, uplift loads, and moments shall be submitted with their locations to the Engineer for approval before fabrication. Any foundation re-design because of the system requirements or loads in excess of the foundation design capacity shall be paid for by the contractor.

- Design loads for metal building:
- Dead Loads:
 - a) Superstructure load..... weight of building provided by the M.B.M.
 - b) Collateral load..... 3 psf
 - c) Insulation load..... weight of insulation provided by the M.B.M.
 - d) Wall mounted equipment..... per electrical & mechanical plans
 - Live Loads:
 - a) Snow load..... 25 psf (Base)
 - Wind Load: (per chapter 16 of the 2015 International Residential Code)
 - a) Wind speed..... 115 mph (3 sec. gust)
 - b) Wind exposure..... exposure 'C'
 - c) importance factor (I_w)..... 1.0
 - Seismic Load:
 - a) See design criteria on this sheet

FINAL FOR CONSTRUCTION
3-9-2020



WILSON STRUCTURAL ENGINEERING, INC.
1235 THOROUGHCREED RD.
DURANGO, CO 81303
Phone: (970) 385-6774

A PROPOSED FOUNDATION DESIGN FOR THE NEW:

AZTEC PUMP STATION
AZTEC, NEW MEXICO

GENERAL STRUCTURAL SPECIFICATIONS AND TYPICAL DETAILS

FILE NAME: 06419.NOT
PROJECT: 06419
SHEET: S2
OF S2

DRAWN: TS
CHECKED: DW
DATE: 3-9-2020



LABOR RELATIONS DIVISION

401 Broadway NE
Albuquerque, NM 87102
Phone: 505-841-4400
Fax: 505-841-4424

226 South Alameda Blvd
Las Cruces, NM 88005
Phone: 575-524-6195
Fax: 575-524-6194

WWW.DWS.STATE.NM.US

1596 Pacheco St, Suite 103
Santa Fe, NM 87505
Phone: 505-827-6817
Fax: 505-827-9676

Wage Decision Approval Summary

1) Project Title: East Aztec Pump Station Upgrades
Requested Date: 02/18/2020
Approved Date: 02/19/2020
Approved Wage Decision Number: SJ-20-0337-B/H

Wage Decision Expiration Date for Bids: 06/18/2020

2) Physical Location of Jobsite for Project:
Job Site Address: 1011 Navajo Dam Road
Job Site City: Aztec
Job Site County: San Juan

3) Contracting Agency Name (Department or Bureau): CITY OF AZTEC
Contracting Agency Contact's Name: Kathleen Lamb
Contracting Agency Contact's Phone: (505) 334-7653 Ext.

4) Estimated Contract Award Date: 03/17/2020

5) Estimated total project cost: \$176,000.00
a. Are any federal funds involved?: No
b. Does this project involve a building?: Yes - Pre-Engineered building will house water pumps, meters and controls
c. Is this part of a larger plan for construction on or appurtenant to the property that is subject to this project?: No
d. Are there any other Public Works Wage Decisions related to this project?: No
e. What is the ultimate purpose or functional use of the construction once it is completed?: Upgrade of pump station facility to meet current and future water distribution requirements

6) Classifications of Construction:

Classification Type and Cost Total	Description
General Building (B) Cost: \$40,000.00	Metal building construction in place including insulation, foundation, pump bases, crane and doors.
Heavy Engineering (H) Cost: \$136,000.00	Improvements to include a pre-engineered metal building pump house to provide for above ground piping, pump, and electrical component installation and two VFD pumps with sensors, meters and valving.



TYPE "B" – GENERAL BUILDING

Effective January 1, 2020

Trade Classification	Base Rate	Fringe Rate	Apprenticeship
Asbestos Workers/Heat and Frost insulators	32.26	12.06	0.60
Asbestos Workers/Heat and Frost insulators-Los Alamos County	34.69	12.06	0.60
Boilermaker/ blacksmith	34.97	28.85	0.60
Bricklayer/Block layer/Stonemason	24.46	8.81	0.60
Carpenter/Lather	24.63	11.24	0.60
Carpenter-Los Alamos County	27.80	13.19	0.60
Millwright/ pile driver	33.16	25.24	0.60
Cement Mason	21.07	10.33	0.60
Electricians-Outside Classifications-Zone 1			
Ground man	23.27	12.67	0.60
Equipment Operator	33.39	15.35	0.60
Lineman/Tech	39.28	16.91	0.60
Cable Splicer	43.21	17.95	0.60
Electricians-Outside Classification: Zone 2			
Ground man	23.27	12.67	0.60
Equipment Operator	33.39	15.35	0.60
Lineman/ technician	39.28	16.91	0.60
Cable Splicer	43.21	17.95	0.60



Electricians-Outside Classifications: Los Alamos			
Ground man	23.94	12.85	0.60
Equipment Operator	34.35	15.60	0.60
Lineman/ Technician	40.41	17.21	0.60
Cable Splicer	44.45	18.28	0.60
Electricians-Inside Classifications: Zone 1			
Wireman/ low voltage technician	32.70	11.18	0.60
Cable Splicer	35.97	11.28	0.60
Electricians-Inside Classification: Zone 2			
Wireman/ low voltage technician	35.64	11.27	0.60
Cable Splicer	38.91	11.37	0.60
Electricians-Inside Classification: Zone 3			
Wireman/ low voltage technician	37.61	11.33	0.60
Cable Splicer	40.88	11.43	0.60
Electricians-Inside Classification: Zone 4			
Wireman/ low voltage technician	41.20	11.44	0.60
Cable Splicer	44.47	11.53	0.60
Electricians-Inside Classification: Los Alamos			
Wireman/ low voltage technician	37.61	13.21	0.60
Cable Splicer	40.88	13.47	0.60
Elevator Constructor	43.80	35.25	0.60
Elevator Constructor Helper	35.04	35.25	0.60
Glazier			
Journeyman/ Fabricator	20.25	5.35	0.60



Delivery Driver	9.00	5.35	0.60
Ironworker	27.00	15.75	0.60
Painter (Brush/Roller/Spray)	17.00	6.88	0.60
Paper Hanger	17.00	6.88	0.60
Drywall- Light Commercial & Residential			
Ames tool operator	25.08	7.10	0.60
Hand finisher/machine texture	24.08	7.10	0.60
Plasterer	23.17	8.99	0.60
Plumber/Pipefitter	30.76	11.62	0.60
Roofer	25.23	7.97	0.60
Sheet metal worker			
Zone 1	31.03	17.26	.60
Zone 2 – Industrial	32.03	17.26	.60
Zone 3 – Los Alamos	33.03	17.26	.60
Soft Floor Layer	19.94	17.26	0.60
Sprinkler Fitter	30.90	22.29	0.60
Tile Setter	24.46	8.81	0.60
Tile Setter Helper/Finisher	16.53	8.81	0.60
Laborers			
Group I- Unskilled and semi-skilled	17.50	6.27	0.60
Group II- Skilled	18.50	6.27	0.60
Group III- Specialty	20.75	6.27	0.60
Masonry Laborers			
Group I- Unskilled and Semi-Skilled	18.00	6.27	0.60
Group II- Skilled	19.75	6.27	0.60
Group III- Specialty	20.25	6.27	0.60
Reinforcing iron workers and post tension	24.00	6.27	0.60



Operators			
Group I	20.95	7.27	0.60
Group II	23.11	7.27	0.60
Group III	23.57	7.27	0.60
Group IV	24.01	7.27	0.60
Group V	24.20	7.27	0.60
Group VI	24.41	7.27	0.60
Group VII	24.52	7.27	0.60
Group VIII	27.56	7.27	0.60
Group IX	29.95	7.27	0.60
Group X	33.35	7.27	0.60
Truck Drivers			
Group I-VII	16.45	7.87	0.60
Group VIII	16.51	7.87	0.60
Group IX	18.45	7.87	0.60

NOTE: All contractors are required to pay SUBSISTENCE, ZONE AND INCENTIVE PAY according to the particular trade. Details are located in a PDF attachment at WWW.DWS.STATE.NM.US. Search Labor Relations/Labor Information/Public Works/Prevailing Wage Rates.

For more information about the Subsistence, Zone, and Incentive Pay rates, or to file a wage claim, contact the Labor Relations Division at (505) 841-4400 or visit us online at www.dws.state.nm.us.



Type "H - Heavy Engineering

Effective January 1, 2020

Trade Classification	Base Rate	Fringe Rate	Apprenticeship
Asbestos workers/Heat & Frost Insulators	32.26	12.06	0.60
Asbestos workers/Heat & Frost Insulators- Los Alamos County	34.69	12.06	0.60
Boilermaker	34.97	27.35	0.60
Bricklayer/Block layer/Stonemason	25.54	8.81	0.60
Carpenter/Lather	24.63	11.24	0.60
Carpenter- Los Alamos County	27.80	13.19	0.60
Millwright/Pile driver	33.16	25.24	0.60
Cement Mason	21.00	9.38	0.60
Electricians-Outside Classifications: Zone 1			
Ground man	23.27	12.67	0.60
Equipment Operator	33.39	15.35	0.60
Lineman/Tech	39.28	16.91	0.60
Cable Splicer	42.21	17.95	0.60
Electricians-Outside Classifications: Zone 2			
Ground man	23.27	12.67	0.60
Equipment Operator	33.39	15.35	0.60
Lineman/Tech	39.28	16.91	0.60
Cable Splicer	42.21	17.95	0.60
Electricians-Outside Classifications: Los Alamos			
Ground man	23.94	12.85	0.60
Equipment Operator	34.35	15.60	0.60
Lineman/Tech	40.41	17.21	0.60
Cable Splicer	44.45	18.28	0.60
Electricians-Inside Classifications: Zone 1			



Wireman/low voltage technician	32.70	11.18	0.60
Cable Splicer	35.97	11.28	0.60
Electricians-Inside Classifications: Zone 2			
Wireman/low voltage technician	35.64	11.27	0.60
Cable Splicer	38.91	11.37	0.60
Electricians-Inside Classifications: Zone 3			
Wireman/low voltage technician	37.61	11.33	0.60
Cable Splicer	40.88	11.43	0.60
Electricians-Inside Classifications: Zone 4			
Wireman/low voltage technician	41.20	11.44	0.60
Cable Splicer	44.47	11.53	0.60
Electricians-Inside Classifications: Los Alamos			
Wireman/low voltage technician	37.61	13.21	0.60
Cable Splicer	40.88	13.47	0.60
Glazier			
Glazier/Fabricator	20.25	5.35	0.60
Delivery Driver	9.00	5.35	0.60
Ironworker	27.00	15.75	0.60
Painter- Industrial	21.25	9.17	0.60
Paperhanger	18.75	9.17	0.60
Drywall-Industrial			
Ames tool Operator	25.93	7.10	0.60
Hand finisher/machine texture	24.93	7.10	0.60
Plumber/Pipefitter	30.76	11.62	0.60
Roofer	25.23	7.97	0.60
Sheet metal Worker	31.03	17.26	0.60
Operators			
Group I	20.55	6.34	0.60
Group II	20.75	6.34	0.60
Group III	20.94	6.34	0.60
Group IV	21.08	6.34	0.60
Group V	21.19	6.34	0.60
Group VI	21.37	6.34	0.60



Group VII	21.39	6.34	0.60
Group VIII	23.29	6.34	0.60
Group IX	28.96	6.34	0.60
Group X	32.19	6.34	0.60
Laborers			
Group I-Unskilled	17.06	6.22	0.60
Group II-Semi-Skilled	17.81	6.22	0.60
Group III-Skilled	19.32	6.22	0.60
Group IV-Specialty	19.72	6.22	0.60
Laborers-Underground			
Group I	18.97	6.22	0.60
Group II	19.34	6.22	0.60
Group III	19.69	6.22	0.60
Truck Drivers			
Group I-VII	16.45	7.87	0.60
Group VIII	16.51	7.87	0.60
Group IX	18.45	7.87	0.60

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