# NTUA Headquarters Complex Office Building

Fort Defiance, Arizona Dyron Murphy Architects Project No. 2015.05

# ADDENDUM No. 3

November 11, 2016



This addendum forms part of the Contract Documents and modifies the Bid Documents dated, October 6, 2016, as noted below. All Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

# **BIDDER QUESTIONS:**

1. Regarding Glass Railing Assembly at Stair S1. Elevations A3, A5, A6/A304 show lay-outs and materials for this. The hand rail is called out as 05 5000.G1, "Aluminum, Brushed Anodized" Spec Section 05-7300 Glass Railing Assemblies call for 304 Stainless Steel at

- 1) Top Guard Rails
- 2) Handrails
- 3) End Post/Balustrade Post

4) Exposed Bottom Rails: Extruded aluminum structural member, brushed finish to match top rail...Which material are they to be, Brushed Aluminum or Brushed Stainless Steel? At interior stairs, S1, hand rail system to be per specification section 05 7300 Glass Railing Assemblies.

2. The specs call for the Top Rail to be  $1 \frac{1}{2}$ " dia. Round w/ a channel for glass. Detail A6/A311 shows a Square Top Rail at the Glass Railing. Which is correct? Provide 1-1/2 inch diameter round top rail as noted in specifications.

3. In Addendum #2 it was stated that the IT Server room was to receive a Dry System. Just want to confirm you did not mean a Pre-Action Fire Sprinkler System complete with Detection, as this is the typical preference for Server Rooms. Please confirm? Provide system as noted on Addendum No. 2.

4. There are three major steel curtain wall manufacturers in the US. They each make very different shapes and sizes. Was a particular manufacturer required?

A particular manufacturer is not required. Design as shown on drawings is based on TGP (Technical Glass Products) as basis of design. Bidder is responsible to submit design to meet the design intent and requirements.

5. Exterior frame type K at office 1432 (A101c) is not present in elevation K (C6/A605). Should this be frame type U?

Window type at Office 1432, south wall, and as shown on elevation E5/A203 to be Window Type 'U'. However, window type to be 9'-0'' height at this location only.

6. There is a window type at exterior wall of Offices 1428 thru 1431 which has no tag (lower right of elevation E5/A203)?

Window type is missing from Window Types. Refer to attached sketch with required dimensions and information.

7. Cannot find aluminum frame type T? Window type 'T' is not used.

8. There is an aluminum-framed sliding pocket door (type N) but no spec for this door type? The requirements of the wood sliding door system are to be per the drawings and specification section 08 1416 Flush Wood Doors. The track requirements and other components are noted in the Door Hardware Schedule and specification section 08 7100. 9. Fire-rated doors #1311, 1411, 1529, 1810a, 2211, 2318, 2423A2423B, C01b, S2B, and V02a are scheduled as aluminum frames (doors also at some of them). Is this correct? Fire-rated aluminum costs about \$300/sq.ft. and \$12,000 per door leaf.

Doors at locations noted are wood doors per the Door Schedule. Provide as indicated on drawings.

10. There is a spec section for aluminum sun shades (10 7113), but none appear on the plan elevations or wall sections. Where are these located?

The aluminum sun shades, 10 7113, are clearly shown on the various building elevations, building sections, wall sections and details.

11. Frame types XX are listed as "Clerestory Windows at Lobby". There isn't a clear view anywhere which shows how many of each window type is required? The location and quantities of window types 'XX' are clearly shown on sheet A102c and E5/A405.

12. Cannot find frame type Y. Window type 'Y' is not used.

13. The other question has to do with the 'k' class extinguisher. The spec 10 4400, 2.02, C7 says there are (3) required. I only saw one in the kitchen (G101). Could you provide the page(s) that show the other locations? There are two (2) locations shown on G101c in the Ktichen/Serving area. The third location will be determined at a later date.

14. Sheet A101A note indicates to "provide 3"-4" size smooth black river rock below all of stair \$1, 3" deep. Coordinate with landscaping where black river rock extends to exterior. I do not see where the landscape plans address this item. Please provide sketch to define area of black river rock. Refer to attached sketch for extent of river rock on the exterior.

15. Sheet A101B Meeting Room A 1814: Note indicates there is a motorized projector lift, but does not note a projector. Are we to provide a projector at every projector lift location? Please confirm and provide spec. for projector.

Projectors will be provided by Owner.

16. Is there going to be a VoiP Telephone system to be installed and if so, what is the manufacturer? The VoiP telephone system will be provided by Owner.

17. Is there a wage determination rate through Navajo Nation for the low voltage portion to bid? All wages are per wage rate included in the bid documents.

18. On page 10 of the Instructions to Bidders, section 8.1 Submission Materials, I cannot find a Certification Form in the bid documents. Please advise.

The letter of certification is to be provided by the bidder/contractor on their company letterheard indicating compliance with the requirements noted in the section.

19. Will the state/county tax be required on top of the Navajo Nation Tax, or will only the Navajo 5% Tax be required?

The Navajo Nation 5% service tax is what is required with the project located on Navajo. The companies are responsible for the cost of other taxes associated with it business transactions, ie state or county. Those taxes may be more associated with the material cost, which are not purchased on the Navajo Nation.

20. Will there be Federal Funds involved in the project that will require Davis Bacon Wages Rates, or should the Wage Rates listed be used?

With RUS loans the Davis Bacon Wage Rates are not required—the Wage Rate listed should be used.

21. Is the gas line going to the Hogan listed in the Allowance #2 included in the Base Bid or is it accounted for in the Allowance.

The extension of the gas line to the Hogan is part of the allowance and should be accounted for in that cost. Refer to sheet C201 for point of termination and extension.

22. Is there a specification for the Wood Stair Treads and landing that can be provided. The requirements for the wood treads are included in the specification section 05 5100 Metal Stairs.

23. Please clarify what the edge conditions are to be for the gravel mulch ground cover that is shown on the Landscaping plans sheet L200-L202. There is currently no callout as to if we are to provide metal or concrete edger at the edge of the edge of the landscape rock mulch or between the two different types of rock mulch.

There are no edge conditions between the various gravel materials.

24. On L201, there appears to be no rock mulch at the plantings along the north edge of the parking lot along the fence as well as around the fleet vehicle parking lot, please confirm that there is not rock mulch at these locations.

Provide 1" Sierra Rose gravel mulch (as indicated on Material Schedule on L202) at the north edge of the parking lot between the curb and fence.

Rock mulch is not required around the fleet vehicle parking.

25. Please clarify if detail B5/S301 applies to the foundation required for the mechanical equipment enclosure, as the schedule provided on S701 only provides foundation sheets for walls that extend up to 10' above grade only. The Mechanical Equipment Enclosure is called out to be 16' tall walls. Please clarify. Refer to revised sheet S601 provided as part of Addendum No. 1 for revised information regarding the mechanical enclosure. In addition, refer to Addendum No. 1 for correct wall height (18'-0").

26. A4/A404, there is a callout for SS-1 pointing to the wall as if there is to be a solid surface backsplash between the countertop and wall cabinet, however, there cut section that are provided do not show a detail for this condition. Please provide a detail with the solid surface backsplash if that is the intent. Provide solid surface backsplash at locations noted on the drawings and schedules. Attachment to wall to be per manufacturer recommendations.

27. On the above mentioned hardware spec, there is no hardware sets for Doors C09 and C10. Also, Doors G01a, G01b, and 1810e are not on the door schedule. Please advise.

Doors C09 and C10 are to be deleted.

Doors G01 and G01b are hardware set 4 as noted on the hardware schedule (specification section 08 7100). These are exterior doors to the mechanical enclosure and service yard enclosure. Door 1810e is hardware set 36 as noted on the hardware schedule (specification section 08 7100). Door is located in Kitchen (Alternate 01).

## DRAWING + SPECIFICATION CLARIFICATIONS:

CIVIL:

1. Refer to civil addendum included herein.

- Bidder questions clarifications.
- Revised specification section 21 4123B

#### MECHANICAL:

1. Refer to mechanical and plumbing addendum included herein.

Revised sheets: M003, M101a, M101b, M101c, M102a, M102b, M102c, M104, M501, M502, P002, P101a, P101b, P101c, P102a, P102b, P102c, P111c, P112c, P304, P401.

### ELECTRICAL:

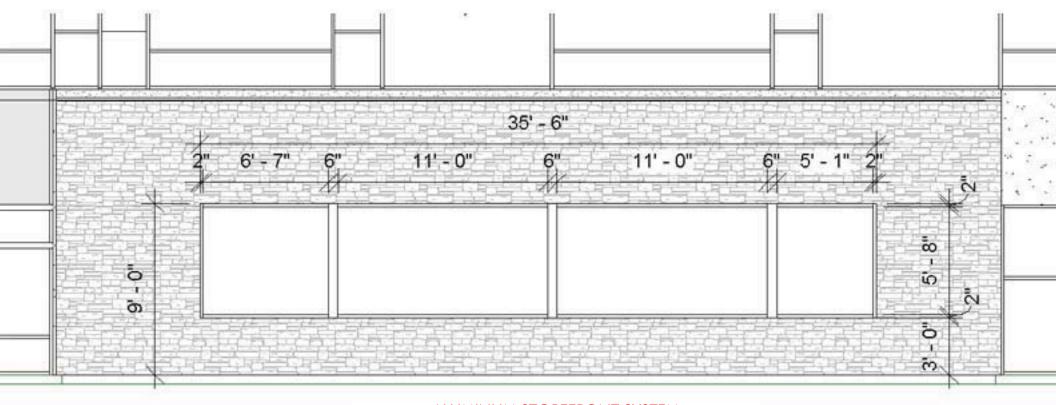
- 1. Refer to electrical addendum included herein.
  - Bidder questions clarifications.

# END OF ADDENDUM NO.3

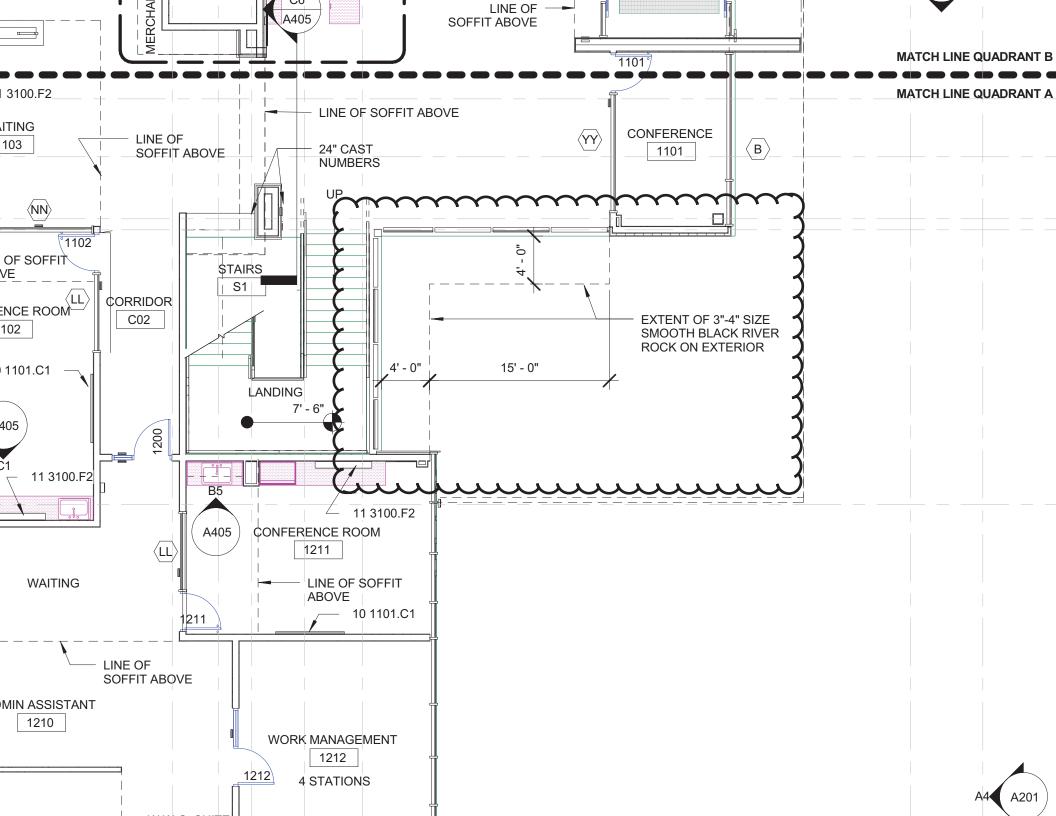
Oscar Tovar, Project Manager Dyron Murphy Architects, P.C

### Attachments:

- 1. Architectural sketches.
- 2. Civil addendum.
- 3. Mechanical addendum.
- 4. Electrical addendum



ALUMINUM STOREFRONT SYSTEM GLAZING: IG-1 ELEVATION E5/A203 (OFFICES 1428-1431) ADDENDUM NO. 3



# Bohannan 🛦 Huston

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November 9, 2016

Oscar Tovar Sr. Project Manager Dyron Murphy Architects, P.C. 4505 Montbel Place NE Albuquerque, NM 87107

Re: NTUA HQ – Addendum 02 REVISED Responses to Comments

### SPECIFICATIONS

**Questions from Engineering America** 

The following comments are:

1. 1.03 Qualifications item D. and E. to be removed and replaced with: The tank manufacturer shall submit with bid that it is compliant with EPA AIS; steel sheets made from American steel.

Response: Modify Specification 1.03.D to the following:

"D. Certification from the tank manufacturer that all steel and aluminum used for the tank shall be smelted and produced in the U.S.A., or is otherwise compliant with American Iron and Steel Guidelines, as defined by the US EPA for Clean Water State Revolving Fund projects. Contractor shall provide all documentation for this certification or compliance.

- 1. Only bids from manufactured tank suppliers who comply with this subsection and have successfully pre-qualified will be considered."
- 3. 1.07 Coatings item 4.a. and 5.a.b. remove and replace CST Storage with: Tank Manufacture.
  - Response: Modify 5a and 5b to the following (4a was previously modified):
    - *5. Measurement of Color* 
      - a. The exterior color of the sheets shall be measured using a colorimeter approved by Manufacturer. The colorimeter shall have a valid calibration record.
      - b. The color must fall within the tolerance specified by Manufacturer; else the panel shall be rejected."

- Engineering
- Spatial Data 🔺
- Advanced Technologies **A**

# SECTION 21 41 23 B BOLTED STEEL TANK

### PART 1 GENERAL

#### 1.01 SCOPE

Furnish and erect a glass-fused-to-steel bolted water storage tank, including foundation, tank structure and tank appurtenances as shown on the Drawings and described herein.

- A. All required labor, materials and equipment shall be included.
- B. All materials furnished by the tank manufacturer, which are in contact with the stored water shall be certified and listed by the National Sanitation Foundation (NSF) to meet ANSI/NSF Additives Standard No. 61. Certification of a coating type alone will not be sufficient to meet this requirement.

### 1.02 REFERENCES

- A. SSPC SP-10 Surface Preparation Standard Near-White Metal Blast Cleaning
- B. ASTM C633-79 Standard Test Method for Adhesion or Cohesive Strength of Flame-Sprayed Coatings
- C. ISO 28706-1:2008 Vitreous and Porcelain Enamels Determination of Resistance to Chemical Corrosion
- D. ISO 2859 Sampling Procedures for Inspection by Attributes
- E. EN 14430:2004 Vitreous and Porcelain Enamels High Voltage Test
- F. ISO 6370-2 Vitreous and Porcelain Enamels Determination of Resistance to Abrasion

### 1.03 QUALIFICATIONS OF TANK SUPPLIER

- A. The Engineer's selection of factory applied glass-fused-to-steel bolted tank construction for this facility has been predicated upon specific criteria, construction methods, and an optimum coating for resistance to internal and external tank corrosion. Deviations from the specified design, construction or coating details, will not be permitted.
- B. The tank manufacturer shall submit with its proposal a drawing showing major dimensions and plate thickness upon which the bid is based and a site specific foundation design based on the soils report showing preliminary dimensions and approximate quantities of concrete and reinforcing steel. The tank and foundation drawings shall be signed and sealed by a Professional Engineer licensed in the state of Arizona.
- C. Strict adherence to the standards of design, fabrication, erection, product quality, and long term performance established in this Specification will be required by the Owner and Engineer.
- D. Certification from the tank manufacturer that all steel and aluminum used for the tank shall be smelted and produced in the U.S.A., or is otherwise compliant with American Iron and Steel Guidelines, as defined by the US EPA for Clean Water State Revolving Fund projects. Contractor shall provide all documentation for this certification or compliance.
  - 1. Only bids from manufactured tank suppliers who comply with this subsection and have successfully pre-qualified will be considered.
- E. The Engineer reserves the right to evaluate all bids based on long term, 50-year minimum operation, coatings and maintenance costs. Values to be used in this evaluation will be at the discretion of the Engineer, as detailed in this specification and bid tabulation form. The Engineer will add such costs, dependent upon the type of tank offered, to the bidder's price to determine the effective low bid for purposes of making the award.

#### 1.04 RELATED WORK

A. Section 21 41 23 – Fire Protection Tank

### 1.05 DESIGN CODES AND GUIDES

- A. The most recent editions of the publications listed in the following text form a part of the specification to the extent referenced. The publications are referred to by the following abbreviation:
  - 1. ANSI/AWWA D103 Standard for Factory Coated Bolted Steel Tanks.
  - 2. NFPA 22 Water Tanks for Private Fire Protection.
  - 3. 2009 NFPA 5000 Building Construction and Safety Code
  - 4. IBC 2006 International Building Code
    - a. ASCE 7-05 Minimum Design Loads for Buildings and Other Structures
    - b. ACI 318-05 Building Code Requirements for Structural Concrete
- B. Specific design criteria in addition to that specified on the contract drawings:
  - 1. Occupancy and Use Category: IV Fire Suppression Facility
  - 2. Minimum frost depth: 30 inches
  - 3. Minimum thickness: 20 inches
  - 4. Allowable soil bearing pressure (on engineered fill): 2,500 psf
  - 5. Foundation type: Reinforced Concrete Bottom with Embedded Steel Base Setting Ring per Paragraph 1.09.A of this Section.

### 1.06 SUBMITTALS

The following shall be submitted in accordance with Administrative Requirements of the project, Section 01 3000 of the Project Manual.

- A. Shop Drawings:
  - 1. Dimensioned tank fabrication drawings indicating all appurtenances with necessary plan and elevation views.
  - 2. Engineering calculations for tank and foundation by registered professional engineer in the State of Arizona.
  - 3. Tank foundation plan.
  - 4. Tank foundation materials of construction.
  - 5. Include the following tank finish data:
    - a. Manufacturer's standard product data, performance characteristics and material safety data sheet.
    - b. List of materials to be used under this section.
    - c. Exception to or deviations from specified requirements, if any, and reasons for same.
- B. Tank inspection report including test results.
- C. Tank manufacturer qualifications including listing of 3 similar installations within the last 5 years.
- D. Operations and Maintenance manual.
- E. Tank Warranty.
- F. Certification from the tank manufacturer that the tank meets the requirements of the standards listed in Section 1.03.

### 1.07 COATING

A. GLASS COATING

The tank shall be provided with a glass fused-to-steel coating per AWWA D103.

**B. FACTORY INSPECTION** 

- 1. The manufacturer's quality system shall be ISO 9001 certified and refer to ISO (International Organization for Standardization) for the following testing and procedures.
- 2. Chemical Resistance of Glass Coating
  - a. Frits shall be individually tested in accordance with pertinent sections of ISO 28706-1:2008.
- 3. Factory Holiday Test
  - a. A dry volt test using a minimum of 1100 volts is required.
  - b. Frequency of the test shall be every sheet. Any sheet registering a discontinuity on the interior surface of floor shall be rejected.
- 4. Measurement of Glass Thickness
  - a. Glass thickness shall be measured using an electronic dry film thickness gage (magnetic induction type) approved by Manufacturer. The thickness gage shall have a valid calibration record.
  - b. The thickness of the glass shall be between 10.0 and 18.0 mils (0.010 and 0.018 inches).
- 5. Measurement of Color
  - a. The exterior color of the sheets shall be measured using a colorimeter approved by Manufacturer. The colorimeter shall have a valid calibration record.
  - b. The color must fall within the tolerance specified by Manufacturer; else the panel shall be rejected.
- 6. Impact Adherence Test
  - a. The adherence of the glass coating to the steel shall be tested in accordance with ISO standards. Any sheet that has poor adherence shall be rejected.
- 7. Fishscale Test
  - a. The glass coating shall be tested in-house for fishscale by placing the full size production sheets in an oven at 400° F for one hour. The sheets will then be examined for signs of fishscale. Any sheet exhibiting fishscale shall be rejected and all sheets from that gage lot will be similarly tested.

#### 1.08 SHIPPING AND HANDLING

- A. All sheets that pass Factory Inspection and Quality Control checks shall be protected from damage prior to packing for shipment.
- B. Heavy paper or plastic foam sheets shall be placed between each panel to eliminate sheet-to-sheet abrasion during shipment.
- C. Individual stacks of panels will be wrapped in heavy mil plastic and steel banded to special wood pallets built to maintain the roll-radius of the tank panels and minimize contact or movement of finished panels during shipment.
- D. Shipment from the factory will be by truck, hauling the tank components exclusively.

### 1.09 ERECTION

- A. FOUNDATION
  - 1. The tank foundation shall be either:
    - a. Type 1, Steel-bottom tanks supported on ringwalls per AWWA D103.

Or

- b. Type 6, Concrete-bottom with embedded steel base setting ring per AWWA D103
- 2. The tank foundation is a part of this contract and shall be installed by the Authorized

Tank Dealer. A site specific foundation design signed and sealed by a Professional Engineer licensed in the state of Arizona, based on the soils report, shall be submitted for review and approval.

- 3. The tank foundation shall be designed by the manufacturer to safely sustain the structure and its live loads.
- 4. Tank footing design shall be based on the soil bearing capacity given in the geotechnical report. Copies of the soil report are to be provided to the bidder prior to bid date by the Owner or Engineer.
- B. Sidewall Structure
  - 1. Field erection of the glass-coated, bolted-steel tank shall be in strict accordance with the procedures outlined in the manufacturer's erection manual, and performed by an authorized dealer of the tank manufacturer, regularly engaged in erection of these tanks, using factory trained erectors.
  - 2. Specialized erection jacks and building equipment developed and manufactured by the tank manufacturer shall be used to erect the tanks.
  - 3. Particular care shall be taken in handling and bolting of the tank panels, structural members, and appurtenances to avoid abrasion of the coating system. Prior to a liquid test, all surface areas shall be visually inspected by the Engineer.
  - 4. No backfill shall be placed against the tank sidewall without prior written approval of the tank manufacturer. Any backfill allowed shall be placed according to the strict instructions of the tank manufacturer.
- C. Roof
  - 1. The roof shall be a structurally supported dome roof per AWWA D103.
    - a. The dome shall be clear span and designed to be self-supporting from the periphery structure with primary horizontal thrust contained by an integral tension ring.
    - b. The dome and tank shall be designed to act as an integral unit. The tank shall be designed to support an aluminum dome roof including all specified live loads.
  - 2. Roof Vent
    - a. A properly sized vent assembly in accordance with AWWA D103 shall be furnished and installed above the maximum water level of sufficient capacity so that at maximum design rate of water fill or withdrawal, the resulting interior pressure or vacuum will not exceed ½ inch water column.
    - b. The overflow pipe shall not be considered to be a tank vent.
    - c. The vent shall be constructed of aluminum such that the hood can be unbolted and used as a secondary roof access.
    - d. The vent shall be so designed in construction as to prevent the entrance of birds and/or animals by including an expanded aluminum screen (½ inch) opening. An insect screen of 23 to 25 mesh polyester monofilament shall be provided and designed to open should the screen become plugged by ice formation.

### D. APPURTENANCES

- 1. Pipe Connections
  - a. Where pipe connections are shown to pass through tank panels, they shall be field located, saw cut, (acetylene torch cutting or welding is not permitted), and utilize an interior and exterior flange assembly. Tank shell reinforcing shall comply with AWWA D103 latest edition. A single component urethane sealer shall be applied on any cut panel edges or bolt connections.
  - b. Overflow piping shall be sized as shown on the Drawings and shall be seamless aluminum tubing.
- 2. Outside Tank Ladder

- a. An outside tank ladder shall be furnished and installed as shown on the submittal drawings.
- b. Ladders shall be fabricated of aluminum and utilize grooved, skid-resistant rungs.
- c. Safety cage and step-off platforms shall be fabricated of galvanized steel. Ladders shall be equipped with a hinged lockable entry device.
- 3. Shell Manways
  - a. One bottom access door shall be provided as shown on the submittal drawings in accordance with AWWA D103.
  - b. The manhole opening shall be a minimum of 30 inches in diameter. The access door (shell manhole) and the tank shell reinforcing shall comply with AWWA D103 latest edition, Sec. 5.1.
- 4. Cathodic Protection
  - a. A passive cathodic protection system shall be designed and supplied by the tank manufacturer based upon information supplied by the Engineer or Owner.

### E. HYDROSTATIC FIELD TESTING

- 1. Following completion of erection and cleaning of the tank, the structure shall be tested for liquid tightness by filling tank to its overflow elevation.
- 2. Any leaks disclosed by this test shall be corrected by the authorized dealer in accordance with the manufacturer's recommendations.
- 3. Water required for testing shall be furnished by the Owner at the time of tank erection completion, and at no charge to the tank erector. Disposal of test water shall be the responsibility of the Owner.
- 4. Labor and equipment necessary for hydrostatic tank testing is to be included in the price of the tank.

#### F. TANK MANUFACTURER'S WARRANTY

The tank manufacturer shall include a warranty for the tank materials and coating. As a minimum, this warranty shall provide assurance against defects in workmanship and materials, under normal and proper use, maintenance and operation, during the period expiring on the earlier of (i) one year after liquid is first introduced into the tank or (ii) 14 months after shipment from the factory.

The manufacturer shall further warrant that the glass coated product zone surfaces (that portion of the tank interior below the normal high elevation of the contained liquid) will not corrode, under normal and proper use, maintenance and operation, during the period expiring on the earlier of (i) 12 months after liquids is first introduced into the tank or (ii) 14 months after shipment from the factory.



Date: November 10, 2016

Project: NTUA-HQ COMPLEX OFFICE BUILDING Fort Defiance, Arizona

AEG Project #: 15037

Re:

From: Brian Arnold, P.E.

ADDENDA #03

 Mechanical & Plumbing Revisions to ISSUE FOR CONSTRUCTION Documents

This Addendum revises the documents for the Issue For Construction (IFC) documentation, issued October 06, 2016. This Addendum modifies portions of the original IFC documents as noted below, and forms a part of the IFC documents. All other items included in the original IFC documents remain in effect for this Project.

DOCUMENT:	DESCRIPTION:
Drawing M003	- ADDS: At WSHP Schedule:
MECHANICAL EQUIPMENT	SMOKE DETECTORS AT ALL UNITS
SCHEDULES	DUCTED FILTER RACK SECTION – FACTORY
	PROVIDED
Drawings	- ADDS:
M101a	RETURN AIR OPENINGS THRU WALLS, ABOVE CEILINGS.
M101b	
M101c M102a	
M102b	
M102c	
MECHANICAL	
HVAC PLANS	
Drawing M104	- ADDS:
MECHANICAL	MECHANCIAL HEAT PUMP WATER PIPING
HVAC PLAN ADDITIVE ALT #02	
ADDITIVE ALT #02	
Drawing M501	- ADDS:
MECHANICAL	Detail M1 / M501: Electrical Power Monitor – NORMAL / EMERGENCY
BUILDING AUTOMATION	Detail M4 / M501: Outdoor Air Temperature (dry-bulb and wet-bulb)
SYSTEM	
Drawing M502	- REVISES:
	Detail M2 / M502 – revises ERV Points List Schedule

MECHANICAL BUILDING AUTOMATION SYSTEM	<ul> <li>ADDS: Detail M3 / M502: AC-101 &amp; AC-102 HVAC at IT Server Room [1113] Detail M4 / M502: AC-103 at Call Center Room [1700] Detail M5 / M502: AC-105 at Electrical Room [ELEC1] Detail M6 / M502: AC-104 at UOC [1610] and Programmer [1611] Detail M7 / M502: Split-System Cooling Units at IT Closet [1114]; ELEV EQUIP [1107]; IT Closet [2116]; IT Closet [2410]</li> </ul>
Drawing P002 PLUMBING SCHEDULES	- RE-ISSUE THE ENTIRE DRAWING FOR CLARIFICATION
Drawings P101a P101b P101c P102a P102b P102c WASTE PIPING PLANS – Levels 1 & 2	- ADDS: Condensate piping for Water Source Heat Pump Units
Drawing P111c PLUMBING WATER & GAS PLAN – Level 1	<ul> <li>ADDS: Water piping (CW &amp; HW) up to sinks on 2<sup>nd</sup> floor above.</li> </ul>
Drawing P112c PLUMBING WATER & GAS PLAN – Level 1	<ul> <li>ADDS:</li> <li>Sink Designations</li> <li>Water piping (CW &amp; HW) up to sinks on 2<sup>nd</sup> floor above</li> </ul>
Drawing P304 PLUMBING FITNESS CENTER ADDITIVE ALT #02	- ADDS: Condensate piping for Water Source Heat Pump Units
Drawing P401 PLUMBING DETAILS	<ul> <li>ADDS: Condensate drain at trap for Lav detail</li> <li>REVISES: Water Heater Flue Vent Detail</li> </ul>

If there are any questions or comments related to this information, do not hesitate to contact our office.

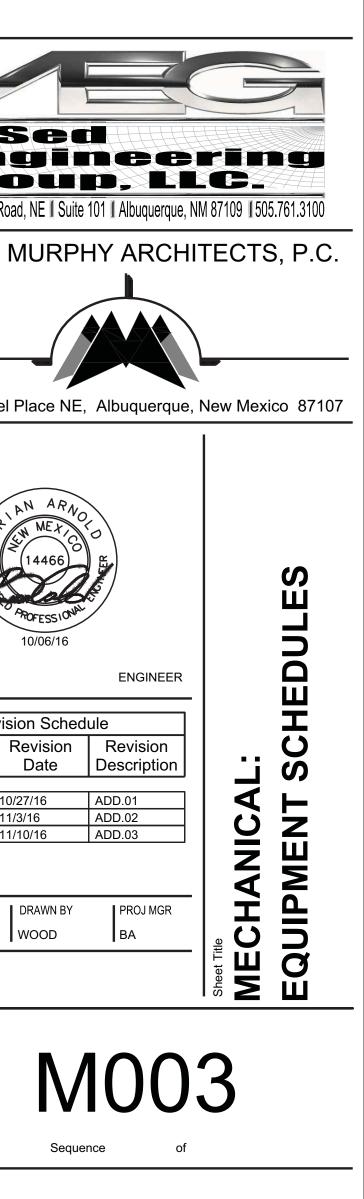
# **END OF MECHANICAL ADDENDA #03 ITEMS**

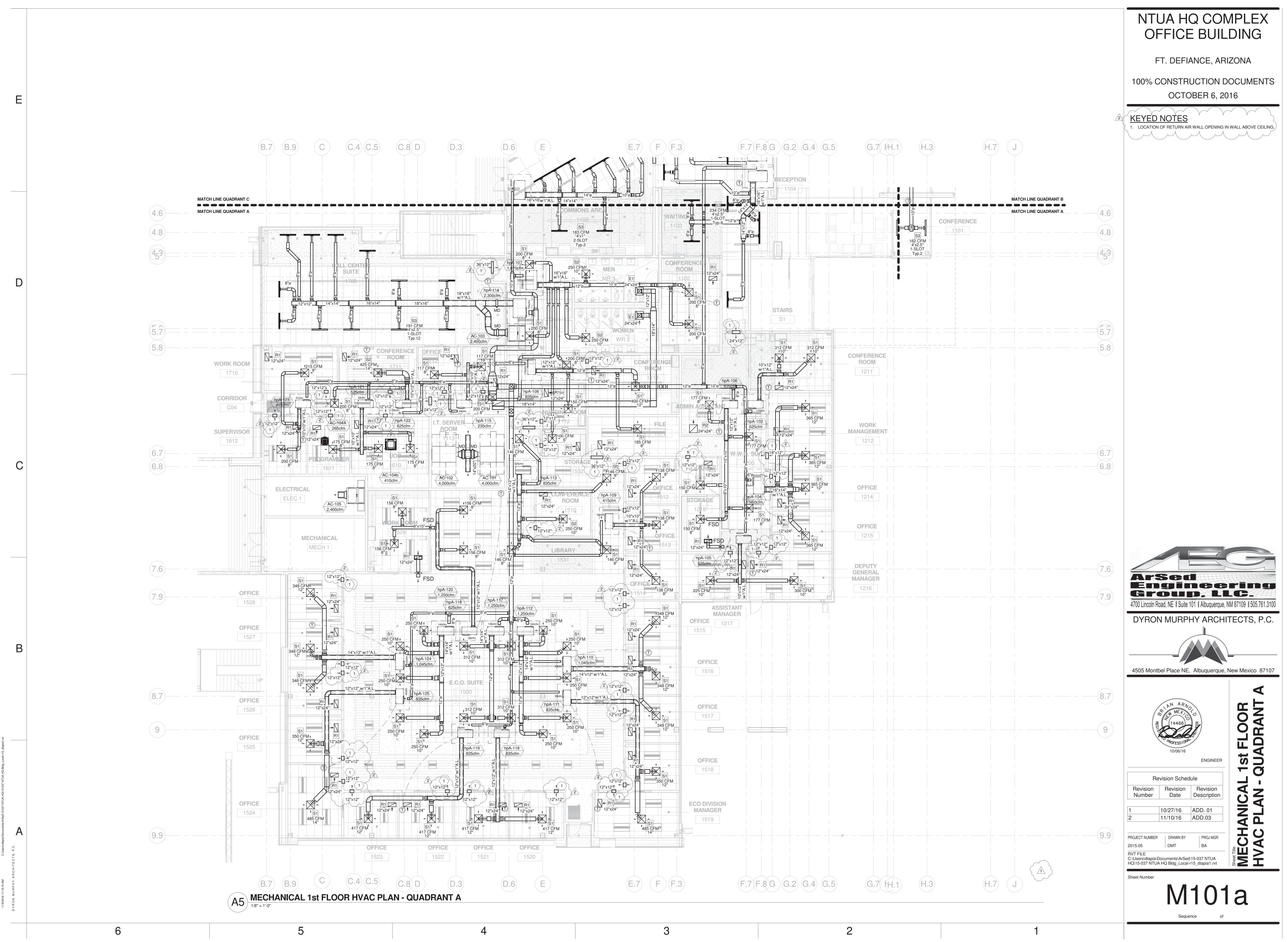
	WATER SOURCE HEAT PUMP SCHEDULE	PLATE AND FRAME HEAT EXCHANGER SCHED         SYM       TACO       TOTAL       HEAT       HOT SIDE       COLD SIDE
	Trane (mfgr) Nominal Model capacity Number       Design factor       External Static static press       WATER       External CAPACITY       EFFICIENECY       EFFICIENECY       EFFICIENECY       EFFICIENECY       GENERAL         Model Number       Number       Static press       Static press       Net       Net       Net       Clg       Clg       Net       Heat       Heat       Heat       Heat       Heat       Heat       Heat       EFFICIENECY       Clg       Net       Net       Net       Net       Net       Clg       Clg       Net       Net       Net       Net       Clg       LAT       Heat       Heat       Heat       Heat       Heat       EFFICIENECY       EFFICIENECY       Static press       Net	SYM       TACO (mfgr) MODEL       TYPE       SVC       IOTAL HEAT       TRNSFR IEAT       LMTD (°F)       HOT SIDE       COLD SIDE         NO:       NO:       V       FLOW       RATE       COLD SIDE       COLD SIDE
	rate rate cooling cooling cpcty cpct	HX-01         PF82-129-4         PLATE & FRAME         COND. WATER         3,155         1,108         1.37         95.0         85.0         550         8.5         83.0         93.0         680         15.2
	cfm       in h2o       in h2o       gpm       ft h2o       mbh       mbh       db °F       vb °F       vb °F       vb °F       vb °F       vb °F       vb °F       vF       vF <t< td=""><td>HEAT PUMP WATER CIRCULATING PUMP SCHEDUL</td></t<>	HEAT PUMP WATER CIRCULATING PUMP SCHEDUL
E	EXHF0097       3/4 ton       315       0.4       0.47       1.8       2.8       8.3       7.6       80.0       52.3       51.8       84.0       95.9       9.65       10.68       7.0       68.0       10.3       55.0       46.89       14.9       5.4       0.68       0.69       0.68       0.75       265/60/1       4.1       3.4       15       1.6       Yes         EXHF0127       1 ton       415       0.4       0.5       2.4       2.9       10.8       9.9       84.0       95.5       12.64       13.81       9.45       68.0       102.8       55.0       47.13       15.5       5.2       0.68       0.94       0.1       0.93       265/60/1       4.1       3.4       15       1.6       Yes	SYMBOL       MANUFACTURER       MODEL       TYPE       SYSTEM       GPM       HEAD FT.       IMPELLER DIA.       SUCTION X DISCHARGE       EFF.       RPM       HP
	x = 1         x = 1 <th< td=""><td>(HPWP-01)         TACO         CI4009         CLOSE COUPLED BASE MOUNTED         HEAT PUMP CIRCULATING WATER         550         75         9.25         5.0"x4.0"         79.0%         1750         15.           (HPWP-02)         TACO         CI4009         CLOSE COUPLED BASE MOUNTED         HEAT PUMP CIRCULATING WATER         550         75         9.25         5.0"x4.0"         79.0%         1750         15.</td></th<>	(HPWP-01)         TACO         CI4009         CLOSE COUPLED BASE MOUNTED         HEAT PUMP CIRCULATING WATER         550         75         9.25         5.0"x4.0"         79.0%         1750         15.           (HPWP-02)         TACO         CI4009         CLOSE COUPLED BASE MOUNTED         HEAT PUMP CIRCULATING WATER         550         75         9.25         5.0"x4.0"         79.0%         1750         15.
	EXHF0187       1 1/2 ton       625       0.4       0.5       3.6       3.2       17.1       15.5       80.0       62.0       51.4       84.0       95.9       20.27       21.40       15.2       68.0       105.2       55.0       46.49       16.7       5.1       1.23       1.45       0.15       1.35       265/60/1       10.9       9.0       15.5       Yes         EXHF0147       2 ton       835       0.4       0.54       4.8       4.7       21.2       18.9       62.0       51.4       18.91       68.0       105.8       55.0       46.49       16.7       5.1       1.45       0.45	MISCELLANEOUS ITEMS TO BE FURNISHED BY MECHANICAL CONTRACTOR:
	EXHF0307         2 1/2 ton         1,045         0.4         0.57         6.0         7.0         27.6         25.1         80.0         62.0         52.4         51.8         84.0         95.4         31.52         34.29         24.18         68.0         102.7         55.0         46.94         16.8         5.4         1.94         2.16         0.36         2.21         265/60/1         16.4         13.7         25         3.3         Yes	BASE MOUNTED       BRONZE FITTED       INTERNAL SELF FLUSHING MECHANICAL SEAL       EFFICIENCY MOTOR         SPLIT CASE       175 PSI WORKING PRESSURE       REPLACEABLE GREASEABLE BALL BEARINGS
	EXHF0424       3 1/2 ton       1,460       0.5       0.68       8.4       6.0       37.4       33.7       80.0       62.0       53.5       52.2       84.0       95.2       46.53       46.50       104.6       55.0       46.57       2.13       0.51       2.12       400/60/3       10.3       9.1       11.3       9.1 <th< td=""><td>COOLING TOWER CIRCULATING PUMP SCHEDULE</td></th<>	COOLING TOWER CIRCULATING PUMP SCHEDULE
	EXHF0484       4 ton       1,650       0.5       0.72       9.6       6.3       42.5       38.3       80.0       62.0       53.7       52.3       84.0       95.3       54.02       39.70       68.0       103.8       55.0       46.73       16.1       5.3       3.33       3.65       0.71       3.8       460/60/3       12.0       10.5       15.2       Yes	SYMBOL     MANUFACTURER     MODEL     TYPE     SYSTEM     GPM     HEAD FT.     IMPELLER DIA.     SUCTION X DISCHARGE     EFF.     RPM     HP
	EXHF0704         6 ton         2,300         0.5         0.79         14.1         5.6         56.4         80.0         62.0         51.8         51.5         84.0         94.5         71.08         75.63         55.0         47.33         15.5         4.6         0.21         4.79         460/60/3         18.1         15.7         25         7.6         Yes	CTP-01         TACO         CI4011         CLOSE COUPLED BASE MOUNTED         COOLING TOWER CIRCULATING WATER         680         95         11.0"         5.0"x4.0"         81.0%         1750         25.           CTP-02         TACO         CI4011         CLOSE COUPLED BASE MOUNTED         COOLING TOWER CIRCULATING WATER         680         95         11.0"         5.0"x4.0"         81.0%         1750         25.
	AREA "A" WSHP's     AREA "C" WSHP's       Level 1     Level 2       Level 1     Level 2	MISCELLANEOUS ITEMS TO BE FURNISHED BY MECHANICAL CONTRACTOR:
	Equip       Trane       Nominal       Design       Equip	BASE MOUNTED BRONZE FITTED INTERNAL SELF FLUSHING MECHANICAL SEAL EFFICIENCY MOTOR SPLIT CASE 175 PSI WORKING PRESSURE REPLACEABLE GREASEABLE BALL BEARINGS
	hpA101         EXHF0187         1 1/2 ton         625         hpA201         EXHF0704         6 ton         2,300         hpB101         EXHF0307         2 1/2 ton         1,045         hpB201         EXHF0364         3 ton         1,250         hpC101         EXHF0097         3/4 ton         315         hpC201         EXHF0127         1 ton         415	TRIPLE DUTY VALVE SCHEDULE
D	InpArtor         EXHIBITION         InpArtor         EXHIBITION         EXHIBITION<	SYMBOL     MANUFACTURER (OR APPROVED EQUAL)     MODEL     SIZE     FLOW GPM     SYSTEM     COMMENTS       (TDV-01)     TACO     MPV030-5     5.0"     550     HEAT PUMP ORDOUTLATION UNATED     2.37 PSI PRESSURE DROF
	hpA103       EXHF0187       1 1/2 ton       625       hpA203       EXHF0307       2 1/2 ton       1,045       hpB103       EXHF0604       5 ton       1,870       hpB203       EXHF0127       1 ton       415       hpC103       EXHF0247       2 ton       835       hpC203       EXHF0127       1 ton       415         hpA104       EXHF0424       3 1/2 ton       1,460       hpA204       EXHF0187       1 1/2 ton       625       hpC104       EXHF0704       6 ton       2,300       hpC204       EXHF0127       1 ton       415	TDV-01TACOMPV030-55.0"550HEAT PUMP CIRCULATING WATER2.37 PSI PRESSURE DROF MISCELLANEOUS: Flanged connections.TDV-02TACOMPV030-55.0"550HEAT PUMP CIRCULATING WATER2.37 PSI PRESSURE DROF MISCELLANEOUS: Flanged connections.
	hpA105       EXHF0157       1 1/4 ton       525       hpA205       EXHF0127       1 ton       415	TDV-03TACOMPV030-55.0"680COOLING TOWER CIRCULATING WATERTDV-04TACOMPV030-55.0"680COOLING TOWER CIRCULATING WATER
	hpA106       EXHF0247       2 ton       835       hpA206       EXHF0187       1 1/2 ton       625         hpA107       EXHF0604       5 ton       1,870       hpA207       EXHF0127       1 ton       415       hpC207       EXHF0247       2 ton       835	
	hp-field         Extended         field	SUCTION DIFFUSER SCHEDULE
	hpA109       EXHF0127       1 ton       415       hpA209       EXHF0247       2 ton       835         hpA110       EXHF0307       2 1/2 ton       1,045       hpA200       EXHF0187       1 1/2 ton       625         hpA110       EXHF0307       2 1/2 ton       1,045       hpA200       EXHF0187       1 1/2 ton       625	SD-01       TACO       SD060040-6       6.0"x5.0"       550       HEAT PUMP CIRCULATING WATER       1.62 PSI PRESSURE DROP MISCELLANEOUS:
	Image: A state       Image	SD-02       TACO       SD060040-6       6.0"x5.0"       550       HEAT PUMP CIRCULATING WATER       Flanged connections Furnish with start-up screen.         SD-03       TACO       SD060040-6       6.0"x5.0"       680       COOLING TOWER CIRCULATING WATER       Flanged connections
	hpA112       EXHF0364       3 ton       1,250       hpA212       EXHF0307       2 1/2 ton       1,045         hpA113       EXHF0247       2 ton       835       hpA213       EXHF0247       2 ton       835       hpA213       EXHF0247       2 ton       1,460       hpC212       EXHF0307       2 1/2 ton       1,045	SD-04     TACO     SD060040-6     6.0"x5.0"     680     COOLING TOWER CIRCULATING WATER
	And the set of the se	AIR SEPARATOR SCHEDULE
	hpA115       EXHF0067       1/2 ton       235       hpA215       EXHF0424       4 ton       1,650         hpA116       EXHF0187       1 1/2 ton       625       hpA216       EXHF0307       2 1/2 ton       1,045	SYMBOL       MANUFACTURER (OR APPROVED EQUAL)       MODEL       SERVICE       FLOW GPM       PIPE CONN.       PROVIDE WITH: STRAINER, ASME, BRACKET SUPPORTS METRAFLEX MODEL MV15A 3/4" AUTO AIR VENT
С	hpA117       EXHF0364       3 ton       1,250       hpA217       EXHF0307       2 1/2 ton       1,045         hpC117       EXHF0187       1 1/2 ton       625       hpC217       EXHF0187       1 1/2 ton       625	AS-02     TACO     4906A     COOLING TOWER CIRCULATING WATER     680     6 in
	hpA118       EXHF0247       2 ton       835       hpA218       EXHF0307       2 1/2 ton       1,045         hpA119       EXHF0247       2 ton       835       hpA218       EXHF0307       2 1/2 ton       1,045         hpA119       EXHF0247       2 ton       835       hpA218       EXHF0307       2 1/2 ton       1,045         hpA119       EXHF0247       2 ton       835       hpA218       EXHF0307       2 1/2 ton       1,045         hpA119       EXHF0247       2 ton       835       EXHF0307       2 1/2 ton       1,045         hpA119       EXHF0247       2 ton       835       EXHF0307       2 1/2 ton       1,045         hpA119       EXHF0247       2 ton       835       EXHF0307       2 1/2 ton       1,045         hpA119       EXHF0247       2 ton       835       EXHF0484       4 ton       1,650         hpA119       EXHF0247       3 ton       1,250       hpC218       EXHF0497       3/4 ton       315	EXPANSION TANK SCHEDULE
	hpA120       EXHF0364       3 ton       1,250         hpC120       EXHF0127       1 ton       415	SYMBOL     MANUFACTURER (OR APPROVED EQUAL)     MODEL     SERVICE     DIMENSIONS (IN)     VOLUME (GAL)     ACCEPT (GAL)     MOUNTING     TYPE
	hpA121       EXHF0157       1 1/4 ton       525         hpA122       EXHF0187       1 1/2 ton       625         hpC121       EXHF0307       2 1/2 ton       1,045	EXT-01       TACO       CBX254-125       HEAT PUMP CIRCULATING WATER       24"       40"       68       34       VERTICAL       DIAPHRAGM
	hpA123       EXHF0127       1 ton       415         hpA124       EXHF0307       2 1/2 ton       1,045	EXT-02       TACO       CBX254-125       COOLING TOWER CIRCULATING WATER       24"       40"       68       34       VERTICAL       DIAPHRAGM         REMARKS: CONSTRUCTED PER ASME SECTION VII, DIV.1; MAX OPERATING TEMPERATURE: 240°F; MIN. OPERATING TEMP: 40°F
	InpA 124         EXHF0247         2 ton         835	VARIABLE FREQUENCY DRIVE SCHEDULE
	ADD ALT 02: (Level 2)       ADD ALT 01: (Level 1)         hpA219       EXHF0247       2 ton       835       hpB104       EXHF0364       3 ton       1,250	SYMBOL     SERVICE     MFG'R     MODEL     HP     VOLTAGE     PROVIDE WITH:       VFD-01     HEAT PUMP CIRCULATING WATER     TACO/SCHNEIDER ELECTRIC SQUARE D     DSJ4YOBD     15.0     460/3/60     NEMA 1 VFD with 3 contactor bypass, LCD text keypad, Reduced harmonic
	hpA220       EXHF0604       5 ton       1,870       hpB105       EXHF0364       3 ton       1,250	VFD-02         HEAT PUMP CIRCULATING WATER         TACO/SCHNEIDER ELECTRIC SQUARE D         DSJ4YOBD         15.0         460/3/60         technology (line reactor), overcurrent circuit breaker, 0-20mA speed reference.
	hpA221       EXHF0424       3 1/2 ton       1,460       hpB106       EXHF0364       3 ton       1,250         hpA222       EXHF0307       2 1/2 ton       1,045       Image: Comparison of the compari	VFD-03COOLING TOWER CIRCULATING WATERTACO/SCHNEIDER ELECTRIC SQUARE DDSJ4YOBD25.0460/3/60VFD-04COOLING TOWER CIRCULATING WATERTACO/SCHNEIDER ELECTRIC SQUARE DDSJ4YOBD25.0460/3/60
	MISCELLANEOUS ITEMS TO BE FURNISHED BY MECHANICAL CONTRACTOR :         MISCELLANEOUS ITEMS TO BE FURNISHED BY MECHANICAL CONTRACTOR :         HIGH EFFICIENCY HORIZONTAL         OPPER HEAT EXCHANGER         MOTE:         FOR ALL 2ton, 2.5ton, 3ton, 3.5ton, 4ton, 5ton, 6ton WSHP's SPECIFIED:         1. PROVIDE AND INSTALL A WATER-SIDE ECONOMIZER.         a. WATERSIDE ECONOMIZER HAS THE ABILITY TO TAKE ADVANTAGE OF ANY LOOP CONDITION THAT         a. WATERSIDE ECONOMIZER HAS THE ABILITY TO TAKE ADVANTAGE OF ANY LOOP CONDITION THAT	MISCELLANEOUS ITEMS TO BE FURNISHED BY MECHANICAL CONTRACTOR: NEMA 1 ENCLOSURE 4-20mA INPUT SIGNAL MAIN AND DRIVE FUSES
В	RESULTS IN COOL WATER TEMPERATURES. A PRIME EXAMPLE WOULD BE DURING FALL, WINTER AND SEE PLANS FOR AIR DISCHARGE CONFIGURATION EXTENDED TEMPERATURE DISCHARGE CONFIGURATION EXTENDED TEMPERATURE DISCHARGE CONFIGURATION DISCHARGE CONFIGURATIO	VERTICAL ENCLOSURE X LINE REACTOR
	RANGE PACKAGE       HEATING MODE, FORCING THE BUILDING LOOP TEMPERATURE TO DECREASE.         ≥ 4V CONTROLS       HEATING MODE, FORCING THE BUILDING LOOP TEMPERATURE TO DECREASE.         ≥ REFRIGERANT: R-410A       HEATING MODE, FORCING THE BUILDING LOOP TEMPERATURE TO DECREASE.         PRE-WIRED READY FOR TURN-KEY INSTALLATION TO THE UNIT.       PRE-PIPED AND	
	a. THE WATER-SIDE ECONOMIZER WILL BE FIELD INSTALLED ON THE RETURN AIR INLET SIDE OF THE WSHP SMOKE DETECTOR ENHANCED SOUND ATTENUATION PACKAGE A. THE WATER-SIDE ECONOMIZER WILL BE FIELD INSTALLED ON THE RETURN AIR INLET SIDE OF THE WSHP UNIT. 3. THE ECONOMIZING COIL SHALL BE DESIGNED TO PERFORM WITH THE WSHP AT UNIT MEASURED FLOW RATE OF 80.6°F DB/66.2°F WB WITH 45°F EWT.	
	<ul> <li>STANDARD PIPING CONFIGURATION</li> <li>DIGITAL MANUAL &amp; AUTO CHANGEOVER</li> <li>T DAY PROGRAMMABLE;</li> <li>3-HEAT/2-COOL, DDC THERMOSTAT</li> <li>A LL HYDRONIC COILS SHALL BE OF 5/8" COPPER AND ALUMINUM PLATE FIN COMBINATION. ALL COILS SHALL</li> <li>A LL HYDRONIC COILS SHALL BE OF 5/8" COPPER AND ALUMINUM PLATE FIN COMBINATION. ALL COILS SHALL</li> <li>BE PROOF AND LEAK TESTED FROM THE MANUFACTURER. THE PROOF TEST SHALL BE PERFORMED AT 1.5</li> <li>T DAY PROGRAMMABLE;</li> <li>BE PROOF AND LEAK TESTED FROM THE LEAK TEST AT THE MAXIMUM OPERATING PRESSURE.</li> <li>A DUAL SLOPED NON CORROSIVE DRAIN PAN SHALL BE EASILY ACCESSIBLE AND CLEANABLE FOR THE</li> </ul>	
	CONDENSATE PUMP PROVIDED WITH EACH UNIT MECH SUPPLY FAN MOTOR 6. AN ELECTRONIC TWO-POSITION, 3-WAY VALVE SHALL METER WATER FLOW TO THE ECONOMIZING COIL	
	DURING THE ECONOMIZING MODE. IT SHALL BE FACTORY SET TO ENERGIZE THE ECONOMIZING MODE AT BACnet PROTOCOL DUCTED FILTER RACK SECTION - FURNISHED WITH EACH HEAT PUMP UNIT. DROVIDE AND INSTALL PRE-MANUFACTURED HOSE	$\wedge$
	PIPING KITS AS MANUFACTURED BY HAYS FLUID CONTROLS, "3-SERIES". HOSE KITS TO INCLUDE:	
	<ul> <li>- ISOLATION VALVE(S): BALL VALVE, BOTH SUPPLY AND RETURN.</li> <li>- STRAINER.</li> <li>- AUTOMATIC FLOW CONTROL VALVE, ("MESURFLO"),</li> </ul>	
	<ul> <li>ON RETURN LINE.</li> <li>SOLENOID VALVE: 24V, ATC VALVE ON RETURN LINE.</li> <li>LINE SIZE PER THE FOLLOWING SCHEDULE:</li> </ul>	
	FLOW:         LINE SIZE:           UP TO 7.5GPM:         3/4"           7.6 GPM TO 12.0GPM:         1.0"	
A	12.1 GPM TO 20.0GPM: 1-1/4" NOTE: DISCONNECTS BY ELECTRICAL CONTRACTOR.	
сі di		
CHITECT		
ИКРНҮ АF		
DYRON M		

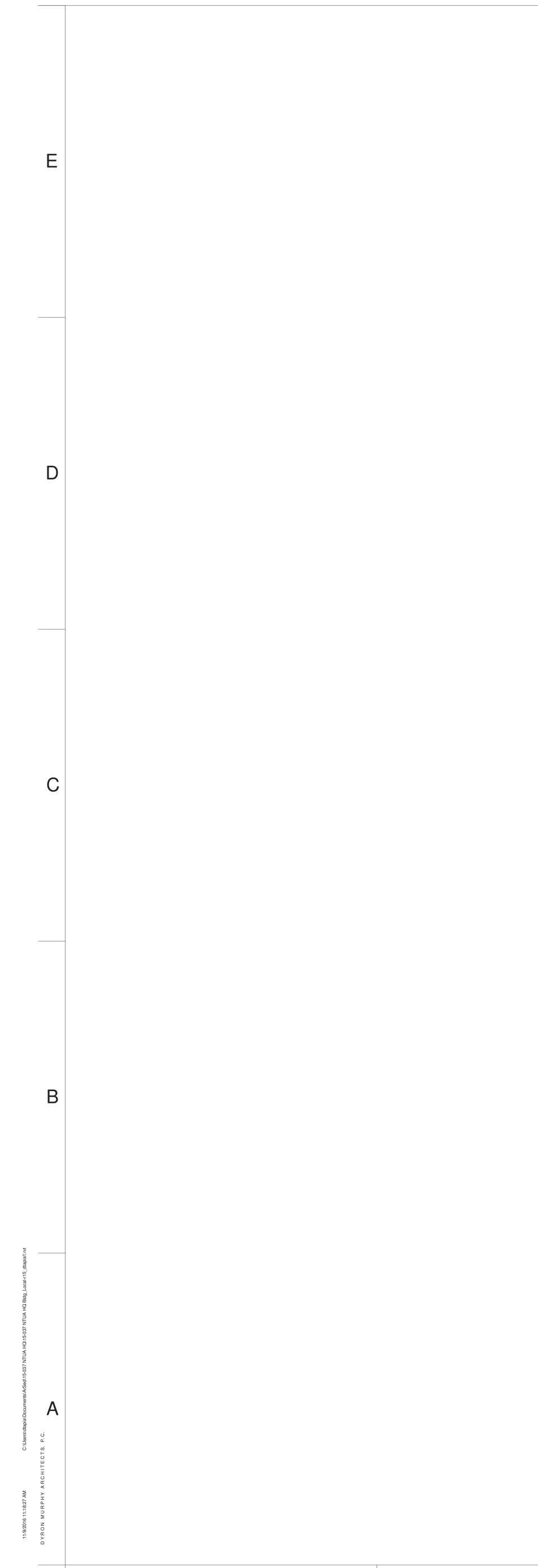
EDULE:		DLING	то	WE	R (I	FLU	JID (	COC	DL	ER	) S	CHE	ΞD	UL	E:		NT	
S. P	CT-01 FXV-	COIL (mfgr) EL NO: 1212C-16D-K	(wb °F) 68	HEAT REJECTIC (mbh) 3,150	DN FLUIE FLOW (gpm) 680	D EWT L V (°F) ( )	/ATER WT PRES °F) DRC (psi 83 13.	P FLOW ) (gpm)	/ MTR	PUMF MTR (hp) 7.5		N v/ph/h: R 460/60/			3.	P		FF.
JLE HP ELECTRICAL V/PH/HZ		LE COIL			<ul> <li>VFE</li> <li>FAN</li> <li>DIS<sup>1</sup></li> </ul>	O ON ONE MOTOR CHARGE	STEEL PA E (1) DISC AIR DAM HARGE F	HARGE	L	ENSIOI x W x H (ft) 12'x16'-	NS I	OPER. WEIGHT (lbs) 23,840				0	100% (	20
15.0     460/3/60       15.0     460/3/60	HEA		HO	ΤW	/AT	ER								y shut-r	off feature 1	main das		
	a. Raypak 2 b. The boild c. The boild efficiency d. The boild registere maximur	Therm™ conde er(s) shall be fired er(s) shall be CS/ y of 96 percent at er(s) shall be ASI d for 160 PSIG n n allowable temp	d with gas at A tested and full fire (99	t a rated in I certified v % at part k	nput of BT with a min oad)	U/hr. imum ther		a. The • •	following High lim Flow sw PSIG AS drain	it contro it contro itch, mo SME pre	controls of with m ounted ar essure re	shall be pr anual rese nd wired lief valve,	rovided: t piped b	y the in		approved		
IP ELECTRICAL	a. Regulato	er(s) shall have a SSURANCE ry Requirements SI Z21.13/CSA 4 al and national ai ssions) boilers ions	9				PM NOx	•	Firing M	ı. lode: Pri er	ovide ele	ectronic mo	odulatin	g contro	) ating tempe djustable ection and three water I of the gas	input to		
V/PH/HZ           .0         460/3/60           .0         460/3/60	Exc ISO 3. HEAT EXCH a. Limited f b. Limited t c. Limited t d. Limited t 4. PRIMARY H a. The prim design a efficiency powder-c	ME H Stamp and ME U Stamp and hanger 9001 HANGER WARR ive-year warranty wenty-five-year to en-year seconda IEAT EXCHANG hary heat exchang nd shall complete y The tubes shall coated. ASME bo	ANTY (copper) fro hermal shoc ystem heat of ry heat exch ER ger shall be ely enclose t I be set vert iler quality.	om date of k warranty exchanger nanger war of a single the combu ically and carbon ste	f installation y warranty e-bank, ve istion char shall be ro sel tube sh	on Intical mult mber for m olled into a neet.	i-pass naximum a	1.BOILER a. Prov b. Prov line,	DIAGN ide exter Power o Call for I Burner f Service ide intern 20 chara System Conden: Manual Auto res Low wat Blocked	OSTICS rnal LEI n - Gree heat - A iring - B - Red nal circu acter, L0 status sate blo set high ter cut-c vent	S panel c mber lue uit board CD displa ckage gh limit limit	lisplaying t indicating ay:	he follo	wing bo	iler status/f afety faults	aults:		
	b. The prim headers (bronze l c. The low the wate shock. d. The head nuts to p	ary heat exchan with silicone "O" headers optional water volume pri r side and shall c ders shall be sec ermit inspection a	ger shall be rings, havin ary heat e arry a twent ured to the t and mainten	sealed to g a temper xchanger s y-five-yea cube sheet ance with	160 PSIG rature rati shall be e: r warranty by stud b out remov	rated cas ng over 50 xplosion-p against th polts with fl	00°F proof on hermal lange rnal	• • • •	High gas Controlle Flow sw Air press Factory External Cold Wa	s pressi er alarm itch sure option l interloo ater Stal	ure switc n ck rt/Cold W							
i i i i i i i i i i i i i i i i i i i	e. The flue connecti f. connecti g. The prim hose bib 5. SECONDAF a. The sect construc b. The boile low as 56 6. CONDENSA a. The boile boiler(s)	nnections. A heap ombustion gas flo connection, com ons, electrical ons and condens lary heat exchang s to drain the wai XY HEAT EXCH/ Y HEAT EXCH/ brdary heat exch ted of stainless s er(s) shall be cap 0°F. ATE DRAIN er(s) will feature a if the condensate	w across th bustion air c ate drain sh ger shall hav er section o NGER anger shall teel and bea able of oper a condensat	e copper-i opening, ga vall be loca ve accessi f the prima be a single ars the AS ating at in e drain sw	tinned tub as connec ated on the ble boiler ary heat e e-bank, m ME U star let water t	es. ction, wate drain valv xchanger. ulti-pass c mp. emperatu	er 1 es with lesign res as down the	2.COMBL a. The a. The bake a. The bake appli louve b. The c. The throu d. The MER 4.BOILER	ISTION combust tion loss T corrosion d-on epo ed prior ers in the boiler(s) boiler(s) ugh the b boiler sh boiler sh V 8 (>95 PUMP	CHAME tion chases, red n-resista by pow to asse outer p outer p if locat shall cc back of t ball have 5% arres	BER: mber wra ucing jac ant galva der coat mbly for banels to ed on a se. bnnect ba he unit. e as stan stance).	ket losses nized-stee , which is s complete of divert air p combustibl oth the con dard an int	and ind suitable coverag past he le floor, nbustion ternal, c	creasing s shall t for outo le, and s ated sur shall no n air and combust	ot require a d flue produ ion air filter	ncy. with a ation, orate separate ucts rated to		
	the Rayp vertical c b. The burn maximur reduced. supplied c. The burn mixture f The com burner ig combust d. The blow	bustion chamber bak high tempera prientation. In gas and air inp The burner mus with 4.0" WC of mand conditions for maximum effic bustion air blower on maximum effic bustion and a post ion chamber. ver shall infinitely	ture FeCrAld ble of firing a ut as well as t be capable nlet gas pre ; no excepti mbustion ai tiency throug r shall oper -purge perio vary its out	by woven the act both a construction of firing an arrow of firing a sesure, so ons. In blower to ghout the eate for a pload after buot the respondent in respondent the security of a first both and after buot the respondent the security of	mesh buri complete b ared wher at 100% of as to main o precisely entire rang re-purge p rner opera- ponse to a	ner, moun olue flame n gas and f rated inp ntain servi / control th ge of mod period before ation to cle 4-20 mA	mploying ted in a with air are ut when ce under ne fuel/air ulation. ore ear the 1 signal	a. The b. Cold • 5.BOILER a. The	boiler(s) Water F The boil proportio tempera damagir The colo variable control t boiler loo PID con of the bo OPERA boiler(s)	Protectic er(s) sh onal byp atures in ng cond d water -speed hat inje op to m op to m op to m op to m op to m foller. ATING ( shall fe	on Syster all be co bass sysi excess ensation protectio pumps the cts the c aintain the emperatu CONTRC ature a r	n nfigured w em that er of 120°F ir n n system s nat are cor prrect amo ne required ire sensor NLS	vith a consures to shall be shall be trolled ount of co d minimu shall be digital	Id water he boile an 7 mi by a sys old water um inlet b located controlle	d pump sys r protection rr will exper nutes to av red with tw stem-match er directly in temperatu d in the inle	automatic ience inlet oid o ed PID nto the re. The t header		
	supplied electroni combust 8. PILOT CON a. The boild b. The ignit remote s three-try c. The ignit device fr d. The ignit individua e. An exter burner o 9. GAS TRAIN a. The boild	directly from the cally and precise ion. Minimum fire TROL SYSTEM er(s) shall be equ ion shall be Hot s ensing separate -for-ignition sequ er will be located om condensation ion control modu I diagnostic flash nal viewing port s peration. er(s) shall have a	PID modula ly adjusting shall be 25 ipped with a Surface Ignit from the ign ence, to ens to the side during star le shall inclu codes. shall be prov	ting tempo the volume percent o a 100 percent tion type w ition source sure consis of the hea t-up. ude an LEI vided, perm	erature co e of air an if rated inp ent safety vith full fla ce, with a stent oper t exchang D that indi nitting visi	ontroller, th d gas sup out. shutdowr me rectific ration. Jer to prote icates six ( ual observ	nereby plied for 1. 1 cation by ect the (6) ration of	b. Syst for fi facto 6.DIRECT a. The by th 15-1 7.SOURC a. The ship b. The Data	em sens eld insta ry-instal VENT boiler(s) e 2006 t 2994, sec E QUAL boiler(s) nent fror boiler(s) Report(	or and o llation b led. shall m Uniform tion 8.1 .ITY CC shall be m the fa shall be s), inspo	eet safe Mechan 3.6. NTROL comple	air tempera ng contrac y standarc ical Code, tely assem ed with the eet, wiring	ature se tor. Inle ds for di section nbled, w	rect ver 1100tlet 1107.6 vired, ar	all be shipp sensors ar , and ASHF d fire-teste SME Manu g plate and	e nt as noted RAE d prior to		
	b. The boile	bỳ CSD-1. er(s) shall have d DCATION		main gas v MODEL	/alve. MBH INPUT @ S.L.	MBH OUTF @ AL	UT EW		/т	LUE II	NTAKE	V/PH/HZ		ELEC VER & TROLS	TRICAL BOILEF			
	B-01 [10 MISCELLAN MECHANIC/ AGA LIS PACKAO CONTR MODUL 96% EF S CONDE CAT IV VERTIC INTAKE • AL25	264] X EOUS ITEMS T AL CONTRACTO STED GED, FACTORY OLS ATING GAS VA FICIENCY NSING TYPE B VENTING: SAL VENT AND KIT: 2-4C VENT MAT VANIZED STEE	O BE FUR OR: ( UVE ( OILER ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	TEN N FLAM ASME HI LIN LOW WATE TEMF Z TEMF	WITH EQ WITH EQ E SAFEG E RELIEF MIT CONT AIR PRE ER FLOW P & PRES PERATUF D NEUTF R BOILEF	ARRANTY GUARD VALVE TROL SSURE S / SWITCH SSURE G/ RE CONT	T BY SWITCH H AUGES ROL ON KITS:		TANDAF DJUSTA AGNOS DT SUR DPPER JMP RE TERFAC RONZE I IMP:	BLE IN FIC AN FACE I FIN-TU LAY CO CE WIT FITTED	S TRAIN LET AIF INUCIA GNITIO IBE HEA ONTAC TH DDC	FOR BOI R SHUTTE FOR N/5:1 TUF T EXCHA	ER RNDOV ANGER	ATE PO ND PUI	1.0 WER SUP MP REQUI			
		RGY	OUN	TED,										JLE	Ξ			
	SYMBOL	GREENHECK mfgr (O.A.E): MODEL #:	SIDI (OUTSID INTO BUII AIR	E E AIR LDING) F EXT.	AIR	E ST AIR ILDING)	PERFOF EFFECTI (% SUMMER (TOTAL)	VENESS	МОТ	OR	ELECT	RICAL	MCA (A)	MOCP (A)	PHYS LxWxF (in)	SICAL	4700 Linco DYRO	oln Roa
Manhan	ERV-A101	PVe-35-SC	2,760	0.75	(cfm) 2,485	(in w.c.) 0.60	55	65	(hr SPLY 5.0	EXH 3.0		460/3/60	10.7	15.0	98x104x5	6 1,800		
	ERV-A201 ERV-B101 ERV-B201 ERV-C101	PVe-35-SC PVe-45-SC ECV-10-VG PVe-35-SC	2,160 1,920 720 2,200	0.75 0.75	1,950 1,730 650 1,980	0.60 0.60 0.60 0.60	55 55 55 55 55	65 65 65 65	3.0 3.0 1.0 3.0	3.0 1.5 0.5 3.0	BELT BELT BELT	460/3/60 460/3/60 460/3/60	10.7 16.9 10.7	20.0 15.0	98x80x50 98x104x5 98x30x50 98x80x50	6 2,000 6 650 6 2,000	4505 Mon	
	FUSED DI SWITCH UL LISTEN BLOWERS MOTORS	D BELT-DRIVE S W/ ADJ SHEA I EFFICIENCY / SUPPLIED & O VFD'S - OA STREAMS STARTERS		0.75 IISHED B MOKE DE UTSIDE A XHAUST , AMPERS EQUIRED ND SWITO ILTER MA IDICATOF IDICATOF ' PLEATE ERV 8 LEXIBLE	ETECTOF AIR AND AIR -MOTOR O RELAYS CHES AINTENAI R SWITC D FILTEF	RS X IZED S NCE X H	SINGLE CONNE SINGLE CONTA CONNE FACTO INTERF DDC CO	-POINT F CTION A -POINT 2 CTOR CC CTION RY CONT ACE w/ B DNTROLS	A VAC NTROLS ACnet	-	BELT	460/3/60	16.9	20.0	98x80x54	6 2,000		de REGISTE
			- c	ONNECT	IONS	ΞΑΤ		T. ELEV		DL	JLE	, 					Revision Number	Revisi R
	TAG SEF EUH-101 RC [M UL APPROVE HEATING EL TOTALLY EN DIRECT DRIV	RVICE MFG'R ECH OOM QMARK ECH1] ED UNIT HEATE EMENTS AND / ICLOSED, WITH /E, AND STATIO	MODEL MW UH7504 ER WITH G ADJUSTAB HINTERNA CALLY BAL	HEATING CAPACI <sup>®</sup> 25,600 ALVANIZ LE AIRFL LE AIRFL L THERM ANCED.	G WATTS TY 0 7,500 ED STEE OW LOU IAL PRO UNITS S	S FAN WATTS 6 EL CABIN IVERS. 1 TECTION 6HALL HA	240V/1F 240V/1F ET AND E THE BALL I. PROPE AVE CON	PH/60HZ PH/60HZ POXY PA BEARING CLLER SH	LOV LOV THI WA AINT FIN G MOTO ALL BE	W VOL ERMOS LL BRA NISH, T DR SHA OF ST	T. TRAN T. HEAT STAT ACKET UBULAI UBULAI LL BE EEL, MERS,	ISFORME ING R	R				1 2 3 PROJECT NUMBE 2015.05	R
		ITED THERMOS	•						<u>-</u> PUIN <sup>-</sup>		NEC 110					ų.	RVT FILE	

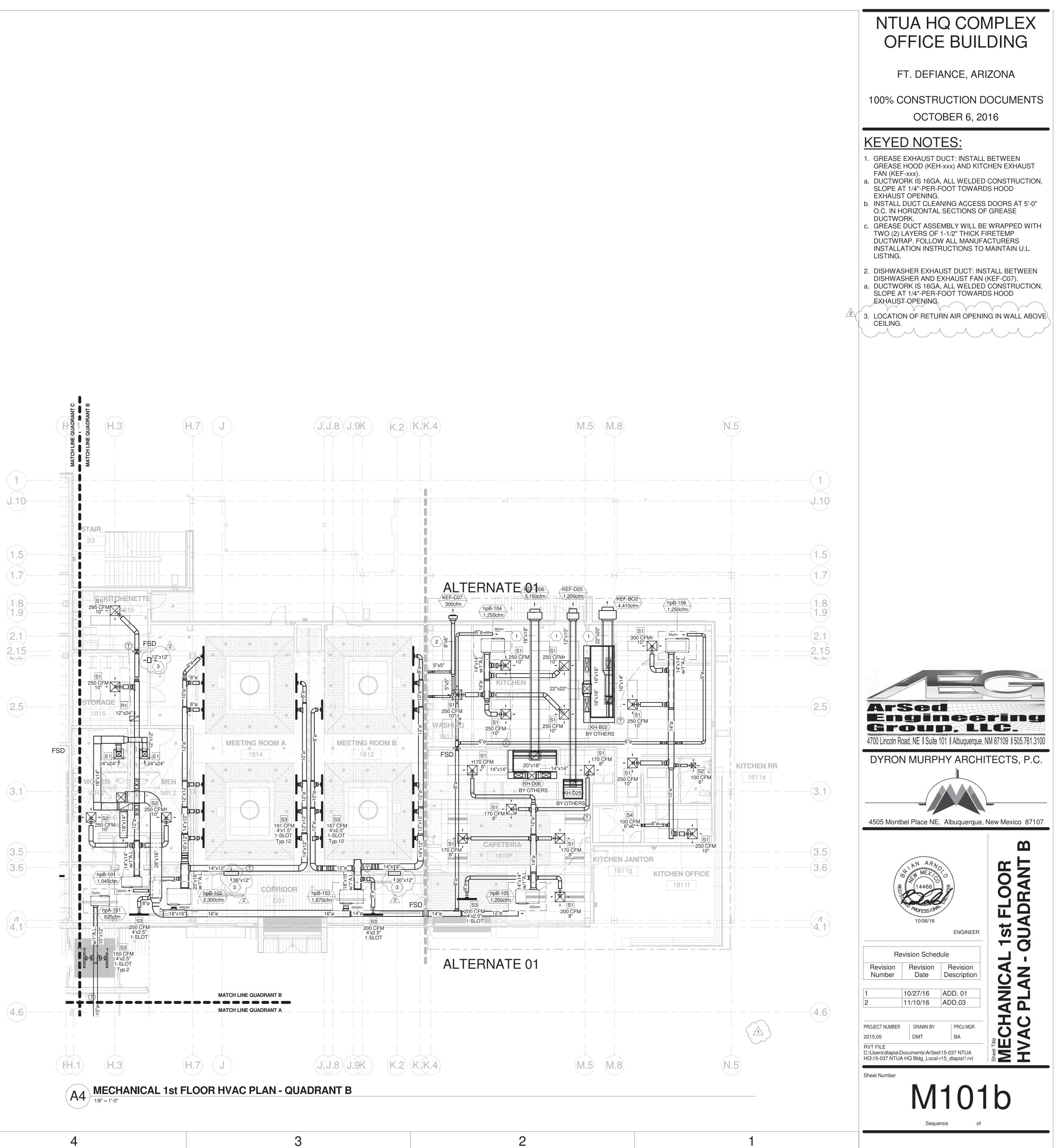


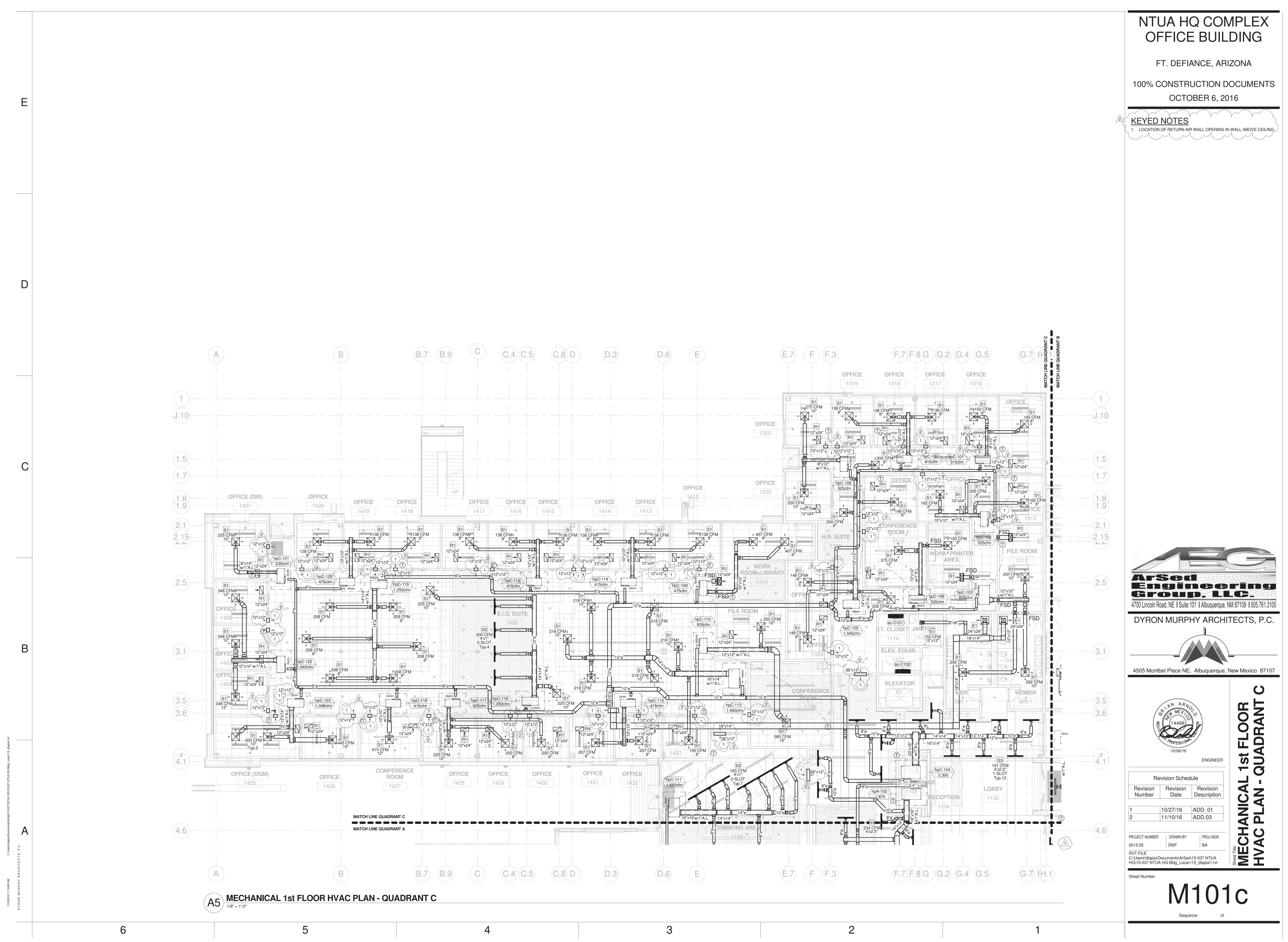
. DEFIANCE, ARIZONA INSTRUCTION DOCUMENTS OCTOBER 6, 2016





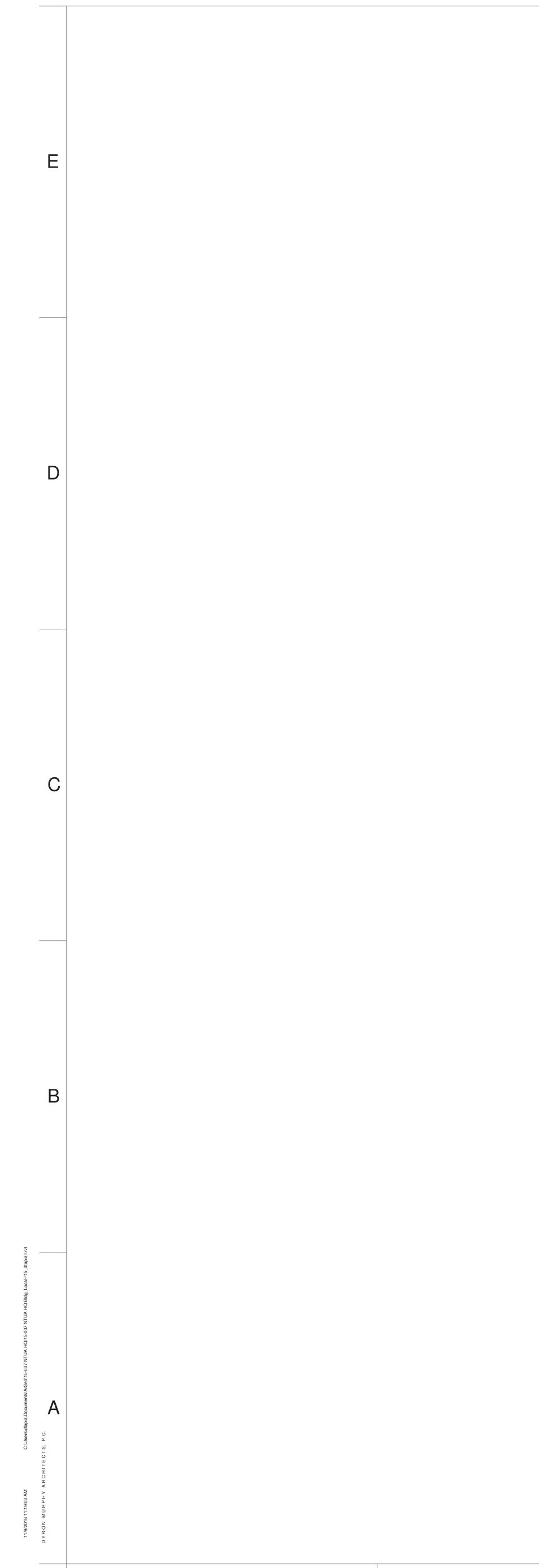


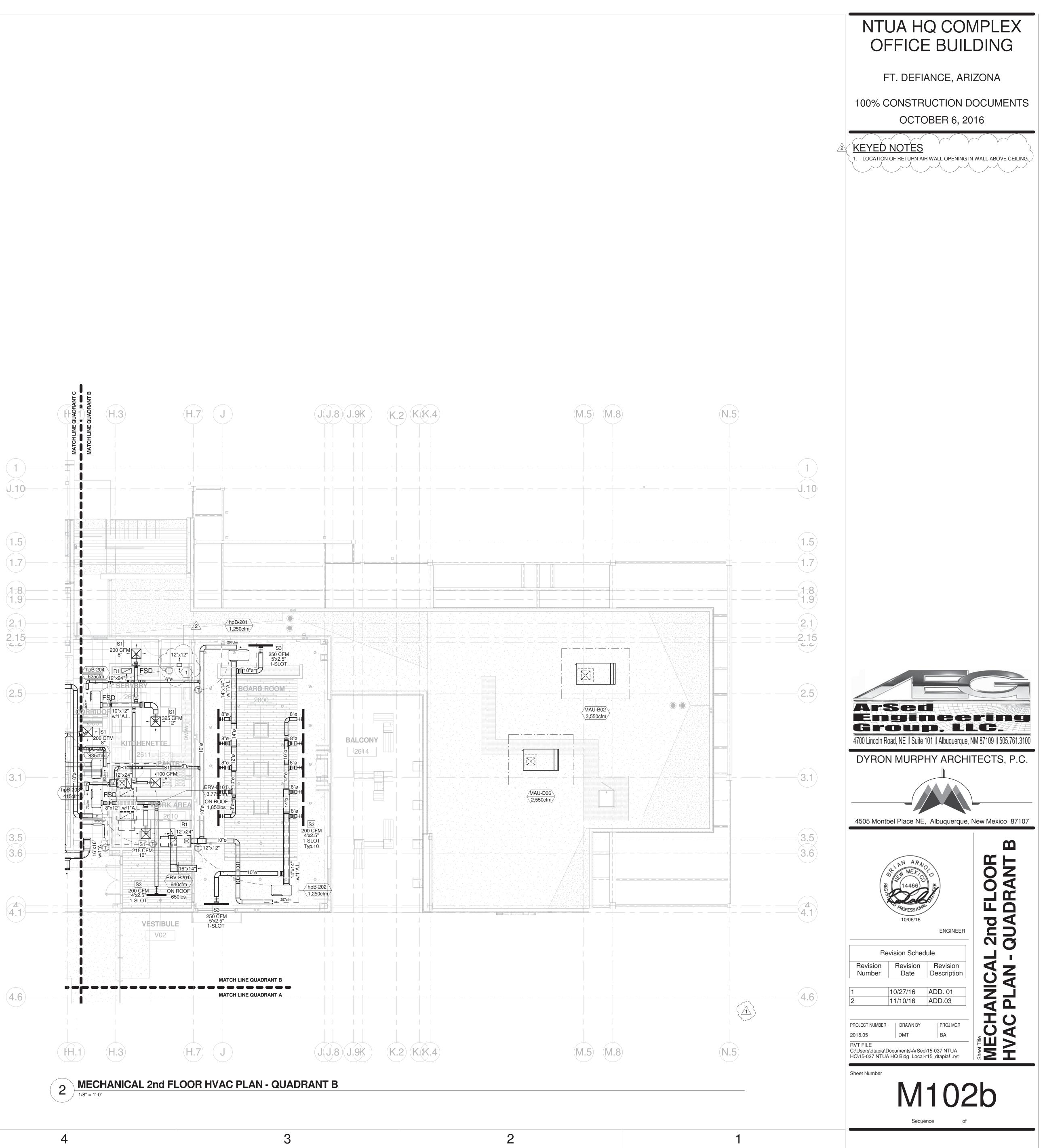




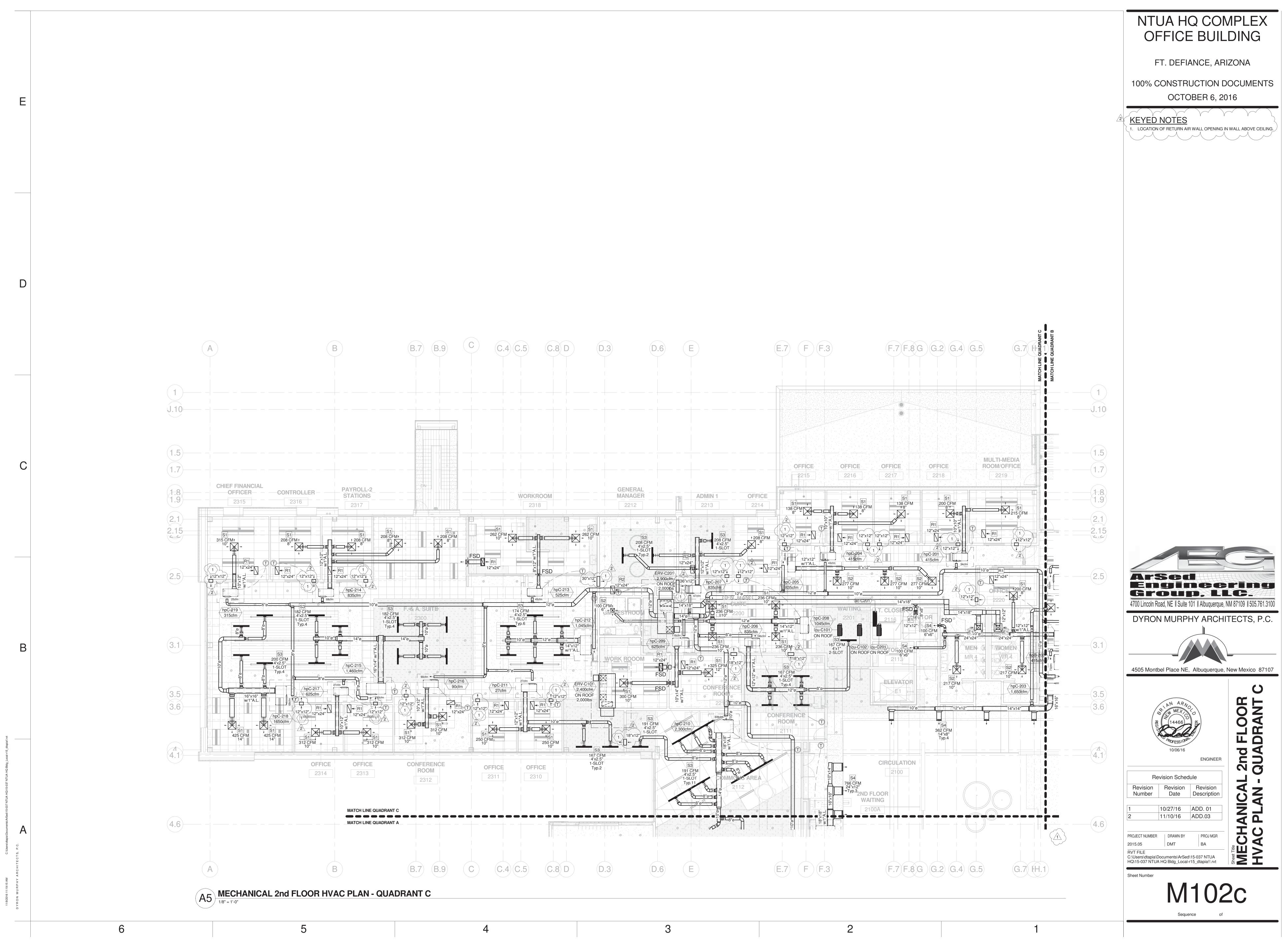


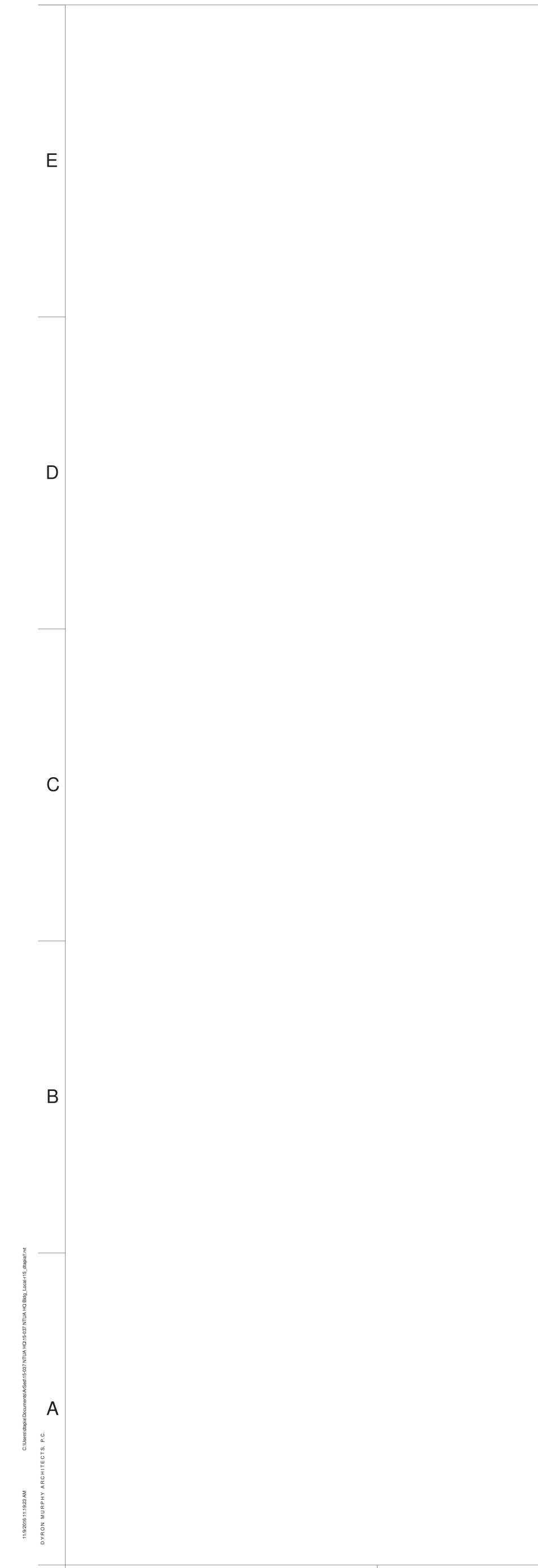


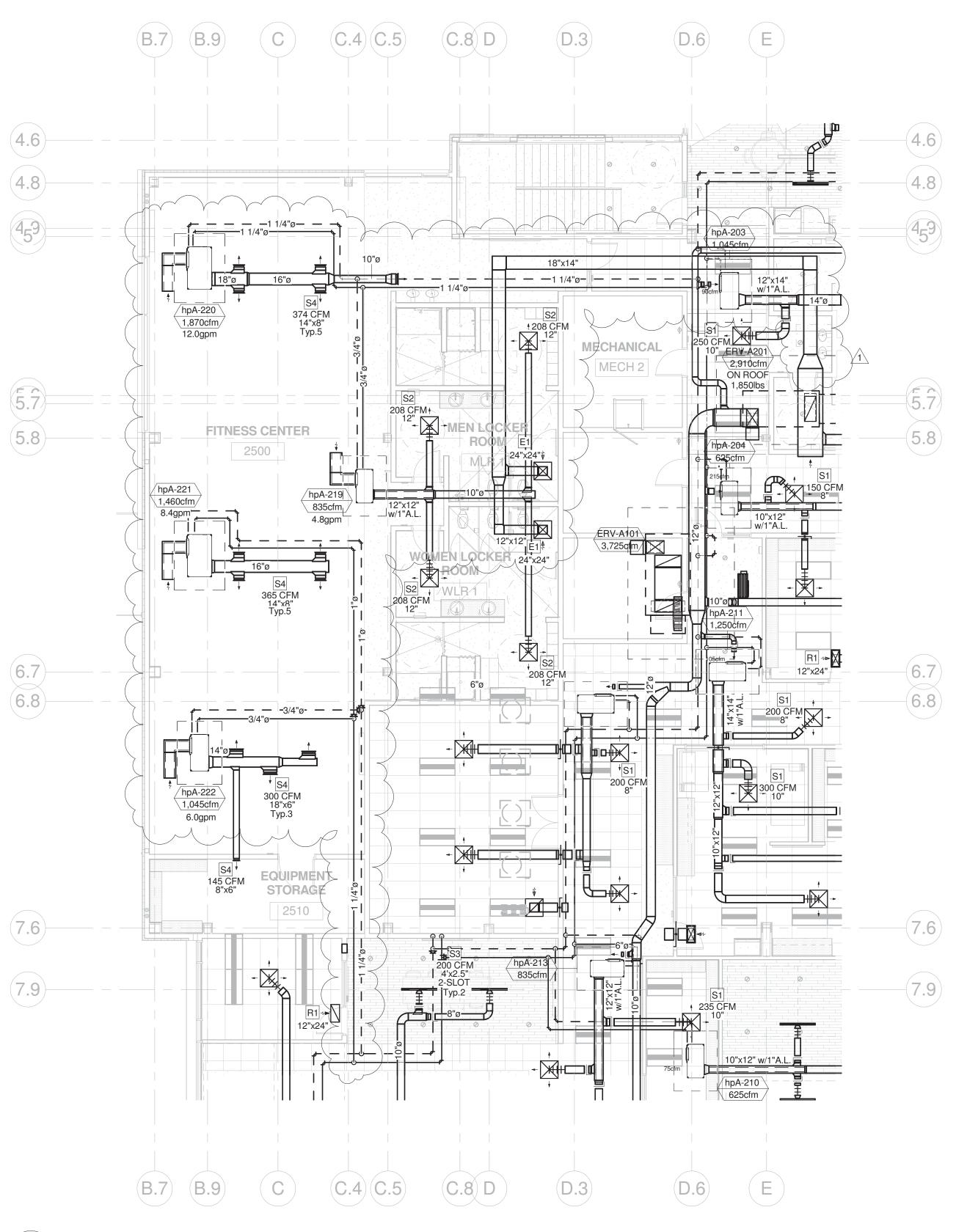








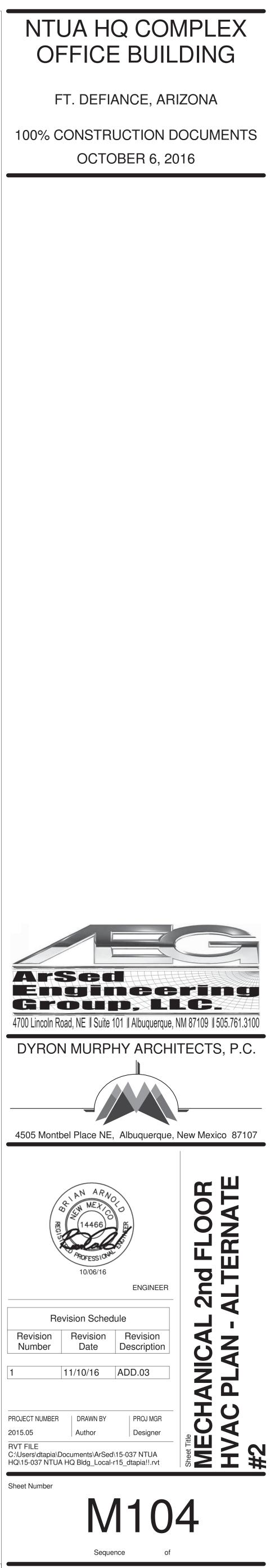


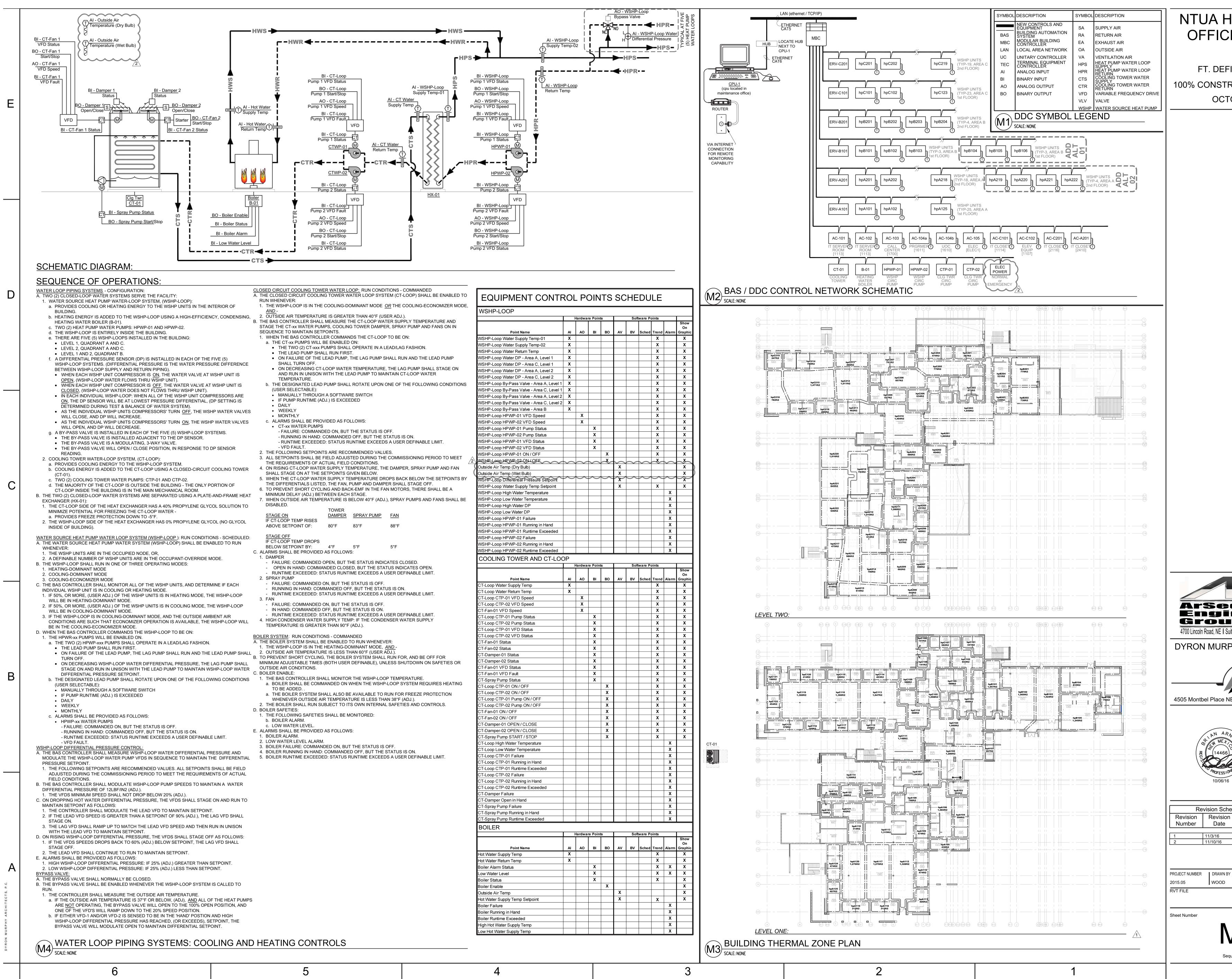


A4 MECHANICAL 2nd FLOOR HVAC PLAN - FITNESS - Alt 2



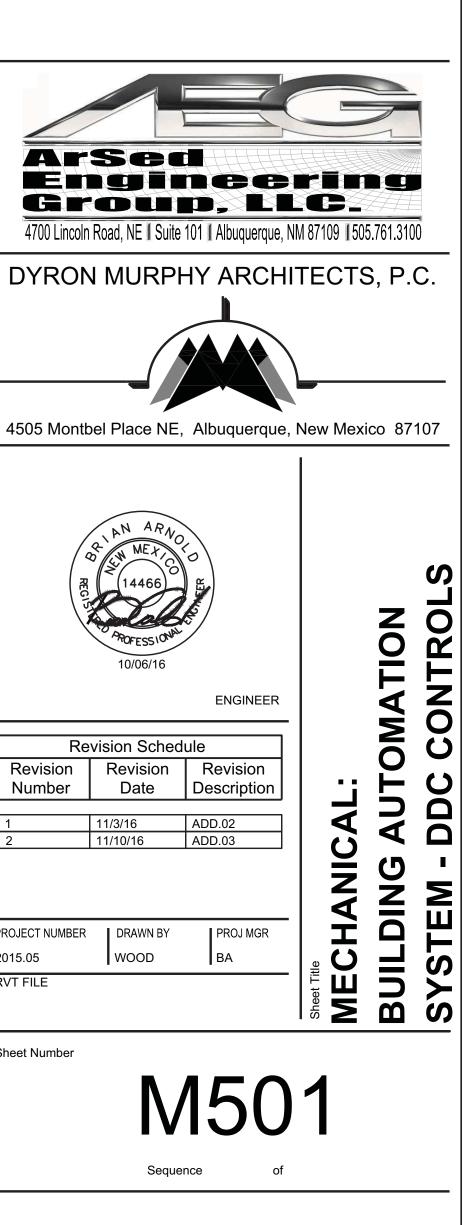
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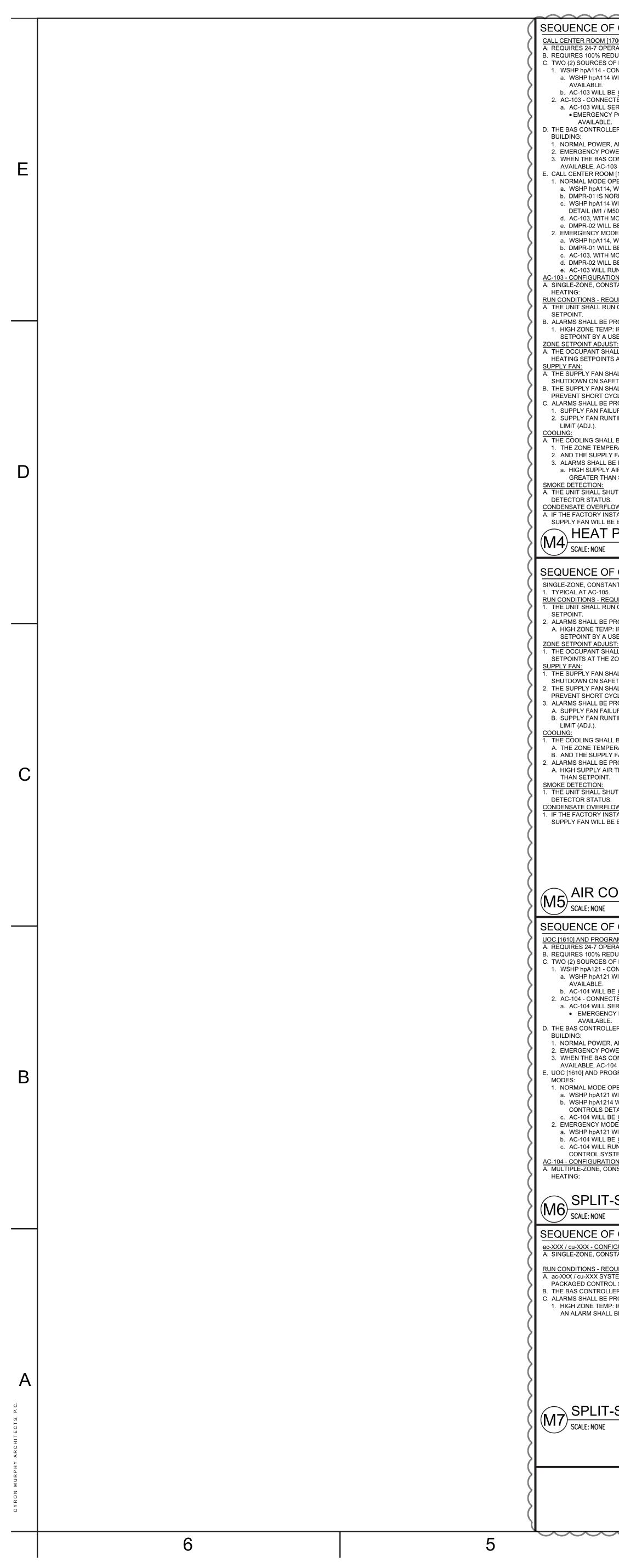




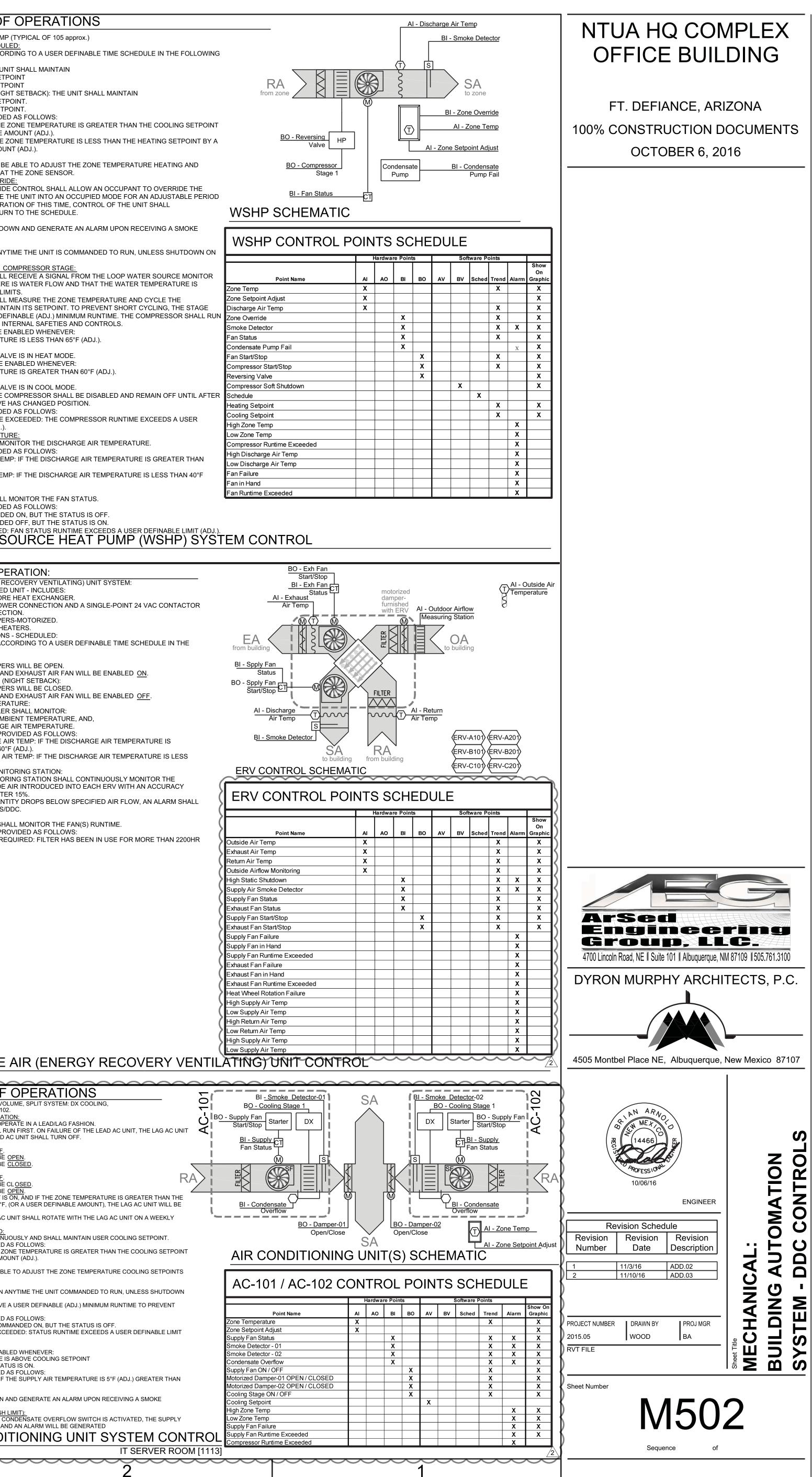


FT. DEFIANCE, ARIZONA **100% CONSTRUCTION DOCUMENTS** OCTOBER 6, 2016





OPERATION: 00] HVAC - CONFIGURATION:	WSHP hpA114	SEQUENCE OF
ATION, 365-DAYS-PER-YEAR. JNDANT / BACK-UP HVAC.		WATER SOURCE HEAT PUMP
NNECTED TO NORMAL ELECTRIC POWER	from zone $\xi \equiv \xi$	THE UNIT SHALL RUN ACCOR MODES:
/ILL SERVE HVAC WHEN NORMAL ELECTRIC POWER IS	BO - Dmpr-01	OCCUPIED MODE: THE UN     74°F (ADJ.) COOLING SET
<u>OFF</u> . ED TO EMERGENCY ELECTRIC POWER. RVE HVAC WHEN NORMAL ELECTRIC POWER IS NOT AVAILABLE.	AC-103 BI - Smoke Detector	<ul> <li>70°F (ADJ.) HEATING SET</li> <li>UNOCCUPIED MODE (NIG</li> </ul>
POWER IS ENABLED ON WHEN NORMAL POWER IS NOT AVAILABLE.	BO - Electric Heat BO - Cooling Stage 1	- 85°F (ADJ.) COOLING SET - 55°F (ADJ.) HEATING SET
R SHALL MONITOR THE ELECTRICAL POWER SOURCE TO THE	BO - Supply Fan to zone	
AND ER		<ul> <li>BY A USER DEFINABLE A</li> <li>LOW ZONE TEMP: IF THE I</li> </ul>
DNTROLLER SENSES EMERGENCY ELECTRICAL POWER IS 3 SYSTEM WILL BE ENABLED <u>ON.</u>	Fan Status ELEC BO - Dmpr-02 Open/Close (NC)	USER DEFINABLE AMOU ZONE SETPOINT ADJUST:
[1700] HVAC SYSTEM WILL OPERATE IN ONE-OF-TWO MODES: ERATION - (NORMAL ELECTRIC POWER MODE):		THE OCCUPANT SHALL BI COOLING SETPOINTS A
	from zone	ZONE UNOCCUPIED OVERRI     A TIMED LOCAL OVERRID
/ILL RUN AND OPERATE AS DESCRIBED IN THE WSHP CONTROLS 02). OTORIZED DAMPER (DMPR-02), WILL BE OFF.	BI - Condensate AI - Zone Setpoint Adjust	SCHEDULE AND PLACE OF TIME. AT THE EXPIRA
BE <u>CLOSED</u> , (NC). E OPERATION - (EMERGENCY ELECTRIC POWER MODE):	BI - Condensate Overflow Air Temp	AUTOMATICALLY RETUR
VITH MOTORIZED DAMPER (DMPR-01), WILL BE <u>OFF</u> . BE CLOSED.	HEAT PUMP UNIT SCHEMATIC	SMOKE DETECTION:     THE UNIT SHALL SHUT DO
OTORIZED DAMPER (DMPR-02), WILL BE <u>ON</u> . BE <u>OPEN</u> .		DETECTOR STATUS. FAN:
N AND OPERATE AS DESCRIBED IN THIS DETAIL N:	AC-103 CONTROL POINTS SCHEDULE	THE FAN SHALL RUN ANY     SAFETIES.
ANT AIR VOLUME, SPLIT SYSTEM: DX COOLING, ELECTRIC	Hardware Points Software Points Software Points Show On	<ul> <li>HEATING AND COOLING - 1 C</li> <li>THE CONTROLLER SHALL</li> </ul>
<u>JESTED:</u> CONTINUOUSLY AND SHALL MAINTAIN USER COOLING	Point NameAIAOBIBOAVBVSchedTrendAlarmGraphicZone TemperatureXXXX	INDICATING THAT THER WITHIN ACCEPTABLE LI
ROVIDED AS FOLLOWS:	Zone Setpoint AdjustXXXDischarge Air TemperatureXXX	THE CONTROLLER SHALL     COMPRESSOR TO MAIN
IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING ER DEFINABLE AMOUNT (ADJ.). 	Supply Fan Status         X	SHALL HAVE A USER DE SUBJECT TO ITS OWN IN
L BE ABLE TO ADJUST THE ZONE TEMPERATURE COOLING AND AT THE ZONE SENSOR.	Smoke Detector - 02         X	• THE HEATING SHALL BE E - OUTSIDE AIR TEMPERATU
ALL RUN ANYTIME THE UNIT COMMANDED TO RUN, UNLESS	Electric Heat ON / OFF         X         X         X           Supply Fan ON / OFF         X         X         X	<ul> <li>AND THE FAN IS ON.</li> <li>AND THE REVERSING VAL</li> </ul>
TIES. ALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME TO	Dmpr-01 OPEN / CLOSED X X X	• THE COOLING SHALL BE I
CLING. ROVIDED AS FOLLOWS:	Cooling Stage ON / OFF         X         X         X	OUTSIDE AIR TEMPERATU     AND THE FAN IS ON.
IRE: COMMANDED ON, BUT THE STATUS IS OFF. IME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE	Cooling Setpoint         X         X           High Zone Temp         X         X         X	<ul> <li>AND THE REVERSING VAL</li> <li>ON MODE CHANGE, THE C</li> </ul>
	Low Zone Temp     X     X       Supply Fan Failure     X     X	THE REVERSING VALVE ALARMS SHALL BE PROVIDE
BE ENABLED WHENEVER: RATURE IS ABOVE COOLING SETPOINT	Supply Fan Runtime Exceeded     X     X       Compressor Runtime Exceeded     X     X	<ul> <li>COMPRESSOR RUNTIME DEFINABLE LIMIT (ADJ.).</li> </ul>
FAN STATUS IS ON. PROVIDED AS FOLLOWS: IR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.)		DISCHARGE AIR TEMPERATU
I SETPOINT.		ALARMS SHALL BE PROVIDE
T DOWN AND GENERATE AN ALARM UPON RECEIVING A SMOKE		120°F (ADJ.). - LOW DISCHARGE AIR TEM
W, (HIGH LIMIT): ALLED CONDENSATE OVERFLOW SWITCH IS ACTIVATED, THE		(ADJ.). FAN STATUS:
ENABLED OFF, AND AN ALARM WILL BE GENERATED PUMP UNIT W/ELEC HEAT CON	TROL SYSTEM	• THE CONTROLLER SHALL     ALARMS SHALL BE PROVIDE
SIME SIME W/LLLO HEAT CON	CALL CENTER ROOM [1700]	FAN FAILURE: COMMANDI
		- FAN IN HAND: COMMANDE - FAN RUNTIME EXCEEDED
	BI - Smoke Detector BO - Cooling Stage 1	
IT AIR VOLUME, SPLIT SYSTEM: DX COOLING,	BO - Supply Fan Statter	SCALE; NUNE
<u>JESTED:</u> CONTINUOUSLY AND SHALL MAINTAIN USER COOLING		A. OUTSIDE AIR (ENERGY R
ROVIDED AS FOLLOWS: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING	BI - Supply CT Fan Status	1. FACTORY ASSEMBLED a. STATIC PLATE COR
ER DEFINABLE AMOUNT (ADJ.).	M S AI - Zone Setpoint Adjust	b. SINGLE-POINT POW CONTROL CONNEC
L BE ABLE TO ADJUST THE ZONE TEMPERATURE COOLING ONE SENSOR.		c. OA AND RA DAMPE d. ELECTRIC DUCT HE
ALL RUN ANYTIME THE UNIT COMMANDED TO RUN, UNLESS	from zone	B. ERV-xxx RUN CONDITION THE UNIT SHALL RUN AC
TIES. ALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME TO	BI - Condensate Overflow	FOLLOWING MODES: 1. OCCUPIED MODE:
CLING. ROVIDED AS FOLLOWS:	AIR CONDITIONING UNIT SCHEMATIC	a. OA AND RA DAMPE b. SUPPLY AIR FAN AN
IRE: COMMANDED ON, BUT THE STATUS IS OFF. IME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE		2. UNOCCUPIED MODE (1 a. OA AND RA DAMPE
BE ENABLED WHENEVER:	AC-105 CONTROL POINTS SCHEDULE	b. SUPPLY AIR FAN AN C. DISCHARGE AIR TEMPER
RATURE IS ABOVE COOLING SETPOINT FAN STATUS IS ON.	Hardware Points Software Points	1. THE BAS CONTROLLED a. THE OUTDOOR AM
ROVIDED AS FOLLOWS: TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER	Point Name     AI     AO     BI     BO     AV     BV     Sched     Trend     Alarm     Show On Graphic       Zone Temperature     X           X      X     X     X     X     X     X     X     X	b. THE SA DISCHARGE 2. ALARMS SHALL BE PR
	Zone Setpoint Adjust X X	a. HIGH DISCHARGE A GREATER THAN 60
T DOWN AND GENERATE AN ALARM UPON RECEIVING A SMOKE	Supply Fan Status     X     X     X       Smoke Detector - 01     X     X     X	b. LOW DISCHARGE A THAN 40°F (ADJ.).
W, (HIGH LIMIT): ALLED CONDENSATE OVERFLOW SWITCH IS ACTIVATED, THE	Condensate Overflow         X	D. OUTSIDE AIRFLOW MONI 1. OUTSIDE AIR MONITOR
ENABLED OFF, AND AN ALARM WILL BE GENERATED	Cooling Stage ON / OFF         X         X         X         X           Cooling Setpoint         X	AMOUNT OF OUTSIDE EQUAL TO OR GREATE
	High Zone Temp         X         X           Low Zone Temp         X         X	2. IF OUTSIDE AIR QUAN BE SENT TO THE BAS/
	Supply Fan Failure     X     X       Supply Fan Runtime Exceeded     X     X	E. FILTER HOURS: 1. THE CONTROLLER SH
	Compressor Runtime Exceeded X	2. ALARMS SHALL BE PR a. FILTER CHANGE RE
NDITIONING UNIT SYSTEM CO		(ADJ.).
	ELECTRICAL ROOM [ELEC1]	K
OPERATION:	WSHP hpA121	K
MMER [1611] HVAC - CONFIGURATION: ATION, 365-DAYS-PER-YEAR.	RA ELEC PWR	K
UNDANT / BACK-UP HVAC. F HVAC SERVE UOC [1610] AND PROGRAMMER [1611]: NNECTED TO NORMAL ELECTRIC POWER	from zone from zone SA to zone SA to zone ELEC PWR NORMAL / EMERGENCY	K
/ILL SERVE HVAC WHEN NORMAL ELECTRIC POWER IS		K
OFF. ED TO EMERGENCY ELECTRIC POWER.	AC-104	K
RVE HVAC WHEN NORMAL ELECTRIC POWER IS NOT AVAILABLE. ' POWER IS ENABLED ON WHEN NORMAL POWER IS NOT	CU-104 ON / OFF	K
R SHALL MONITOR THE ELECTRICAL POWER SOURCE TO THE	AI - Zone Setpoint Adjust	6
AND ER.	AC-104a	0
ER. DNTROLLER SENSES EMERGENCY ELECTRICAL POWER IS I SYSTEM WILL BE ENABLED <u>ON.</u>	PRGRMER UOC T [1611] [1610]	D
GRAMMER [1611] HVAC SYSTEM WILL OPERATE IN ONE-OF-TWO	AIR CONDITIONING UNIT SCHEMATIC	D
ERATION - (NORMAL ELECTRIC POWER MODE): /ILL BE <u>ON</u> . WILL BLIN AND OPERATE AS DESCRIBED IN THE WSHR		P
WILL RUN AND OPERATE AS DESCRIBED IN THE WSHP AIL (M1 / M502). OFF	AC-104 CONTROL POINTS SCHEDULE	
<u>OFF</u> . E OPERATION - (EMERGENCY ELECTRIC POWER MODE): /ILL BE <u>OFF</u> .	Hardware Points Software Points Show On	(M2) SCALE: NONE
ON. N AND OPERATE ACCORDING TO IT'S OWN FACTORY PACKAGED	Point NameAIAOBIBOAVBVSchedTrendAlarmGraphicZone TemperatureXXXX	SEQUENCE OF
ЕМ. N:	Zone Setpoint Adjust         X         Image: Constraint of the set o	SINGLE-ZONE, CONSTANT AIR VO 1. TYPICAL AT AC-101 AND AC-10
ISTANT AIR VOLUME, SPLIT SYSTEM: DX COOLING, ELECTRIC	AC-104 - ON / OFF         X         X         X         X           High Zone Temp         X         X         X         X	TYPICAL AT AC-101 AND AC-10     AC-101/AC-102 LEAD/LAG OPERAT     THE TWO AC UNITS SHALL OPERAT
	Low Zone Temp X X	A. THE LEAD AC UNIT SHALL R SHALL RUN AND THE LEAD
SYSTEM (MULTI-ZONE) CONTR	UOC [1610] AND PROGRAMMER [1611]	<ul> <li>a. WHEN AC-101 IS <u>ON</u>:</li> <li>AC-102 WILL BE <u>OFF</u>.</li> </ul>
		<ul> <li>M-DAMPR-01 WILL BE</li> <li>M-DAMPR-02 WILL BE</li> <li>b. WHEN AC-102 IS <u>ON</u>:</li> </ul>
OPERATION: GURATION:	ac-XXX / cu-XXX	<ul> <li>AC-101 WILL BE OFF.</li> <li>M-DAMPR-01 WILL BE</li> </ul>
ANT AIR VOLUME, SPLIT SYSTEM: DX COOLING	Cu-XXX AI - Zone Temp	M-DAMPR-02 WILL BE B. WHEN THE LEAD AC UNIT IS COOLING SETPOINT BY 5°E
JESTED: EM WILL RUN AND OPERATE ACCORDING TO IT'S OWN FACTORY		COOLING SETPOINT BY 5°F, ENABLED ON. C. THE DESIGNATED LEAD AC
. SYSTEM. R SHALL MONITOR THE ZONE SPACE TEMPERATURE.	ac-XXX	BASIS. RUN CONDITIONS - REQUESTED:
ROVIDED AS FOLLOWS: IF THE ZONE TEMPERATURE IS GREATER THAN 85°F, (USER ADJ), RE GENERATED THEIL THE BAS SYSTEM	(T)	<ol> <li>THE UNIT SHALL RUN CONTINU</li> <li>ALARMS SHALL BE PROVIDED</li> </ol>
BE GENERATED THRU THE BAS SYSTEM.	AIR CONDITIONING UNIT SCHEMATIC	A. HIGH ZONE TEMP: IF THE ZO BY A USER DEFINABLE AMC ZONE SETPOINT ADJUST:
		1. THE OCCUPANT SHALL BE ABL AT THE ZONE SENSOR.
	ac-XXX / cu-XXX CONTROL POINTS SCHEDULE	SUPPLY FAN: 1. THE SUPPLY FAN SHALL RUN /
	Hardware Points Software Points Show On	ON SAFETIES. 2. THE SUPPLY FAN SHALL HAVE
	Point NameAIAOBIBOAVBVSchedTrendAlarmGraphicZone TemperatureXXXX	SHORT CYCLING. 3. ALARMS SHALL BE PROVIDED A. SUPPLY FAN FAILURE: COM
	High Zone Temp X X	<ul> <li>B. SUPPLY FAN RUNTIME EXC (ADJ.).</li> </ul>
SYSTEM (SINGLE-ZONE) CON		COOLING: 1. THE COOLING SHALL BE ENAB
	ac/cu-C101 - IT CLOSET [1114] ac/cu-C102 ELEV EQUIP [1107]	A. THE ZONE TEMPERATURE I B. AND THE SUPPLY FAN STAT
	ac/cu-C201 - IT CLOSET [2116]	<ol> <li>ALARMS SHALL BE PROVIDED         <ul> <li>A. HIGH SUPPLY AIR TEMP: IF <sup>-</sup> SETPOINT.</li> </ul> </li> </ol>
	ac/cu-A201 - IT CLOSET [2410]	SMOKE DETECTION: 1. THE UNIT SHALL SHUT DOWN
		DETECTOR STATUS. CONDENSATE OVERFLOW, (HIGH
		1. IF THE FACTORY INSTALLED C FAN WILL BE ENABLED OFF, AN
		M3 AIR CONDI
		SCALE: NONE
1 4	3	



														] [								
					DOMES						1			-	I		FIXTURE		G FIXT		SCHEI	
SYN		ACTURER EQUAL)	M	IODEL	CAPACITY GALLONS	1ST HOUR DELIVERY	INPUT BTUH		HW OUTLET	FLUE/INTAKE DIAMETER		GAS CONN	T&P RELIEF	SYMBO	FIXTURE TYPE	MANUF/MODEL (OR EQUAL)	MOUNTING		W HW		VENT	COMMENTS
WH WH		SMITH	вт	H-100	75	166 GALLONS	100,000	) 1"	1"	4"/4"	VOLTSPHASE1201	3/4"	3/4"	P-1		AMERICAN STANDARD NO. 3451.001 "MADERA"	15" TOP OF RIM	1'	'	4"	2" OR 4"	VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET ACTION, WHITE FINISH. OLSONITE NO. 95 OPEN FRONT SEAT, SLOAN CROWN NO. 111-1.28, 1.28 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED).
WH	-3 A.O.	SMITH		H-150	100	297 GALLONS	150,000	) 1-1/2"	1-1/2"	4"/4"	120 1	1"	1"	P-1A	WATER CLOSET (ADA)	AMERICAN STANDARD NO. 3461.001	16-1/2" TOP OF RIM	1'	·	4"	2" OR 4" SEE DWG.	VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET ACTION, WHITE FINISH. OLSONITE NO. 95 OPEN FRONT SEAT, SLOAN CROWN NO. 111-1.28, 1.28 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED).
	IENTS													P-2		"MADERA" AMERICAN STANDARD NO. 6950.005	24" TOP OF RIM	3/4'	'	2"	1-1/2"	VITREOUS CHINA, FLUSH VALVE, WALL HUNG, TOP SPUD, WASHOUT FLUSH ACTION, WHITE FINISH. SLOAN CROWN NO. 186-0.125, 0.125 GPF HIGH EFF. WATER SAVER FLUSH VALVE
CONT STEE FITTII SET F	ISH COMPLETE PACH ROLS, ASME RELIEF - TANK CONSTRUCTI IGS. COMPLETE ASS OR OPERATION AT S PMENT, STANDARD C	VALVE, HEAT E ON, INLET AND EMBLY SHALL ITE ELEVATION	EXCHANGER, 1 D OUTLET THE FACTORY ASS N, AGA RATED,	TANK THERMO RMOMETERS, & EMBLED. HEA LOW WATER (	METER, GLASS & PRE-PIPED W TERS SHALL BE CUTOFF, STANI	-LINED ITH E DARD								P-3	LAVATORY (ADA)	"WASHBROOK" AMERICAN STANDARD	UNDERCOUNTE SEE ARCH. FOR COUNTER HEIG	1/2	" 1/2"	2"	1-1/2"	(PISTON ACTIVATED). ZURN OR SMITH URINAL CARRIER SYSTEM. VITREOUS CHINA, 21.25"x15.25"x6.75", SELF-RIMMING, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F PER ASSE 1070.
	ER: 2.2 AMPS, IGNITE RACTOR TO PROVID		S AND SEISMIC	RESTRAINT ST	TRAPS.									P-4		STANDARD	WALL MOUNTED 34" TO RIM	1/2	" 1/2"	2"	1-1/2"	VITREOUS CHINA, 20"x18", CONCEALED ARM, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F PER ASSE 1070.
				Ε>	(PANSIC		SCHEI	DULE						P-5	LAVATORY (ADA)		COUNTERTOP SEE ARCH. FOR COUNTER HEIG		" 1/2"	2"	1-1/2"	VITREOUS CHINA, 20"x17" OVAL, SELF-RIMMING, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F
SYMI		JFACTURER EQUAL)	MODEL _	DIMENSIONS DIA.	V	TANK OLUME MOUNT (GAL)	'ING T`	YPE	MIN.	MAX. MIN.		MMENTS		P-6	DRINKING	HAWS MODEL	WALL MOUNTED SEE ARCH. FOR	) 1/2	)"	2"	1-1/2"	#102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105 F         PER ASSE 1070.         WALL MOUNTED BARRIER-FREE, 18 GAUGE TYPE 304 SATIN STAINLESS STEEL         FINISH WITH BUBBLER HEAD, FRONT PUSH-BUTTON, GRID STRAINER, VANDAL
EXF	-1 AM	TROL	ST-20V-C	12"	19-1/2"	8.0 VERTIC	AL BL	ADDER	-	125 -		NSTRUCTED F			FOUNTAIN (ADA)	NO. 1001MS	MOUNTING HEIG	GHTS				RESISTANT BOTTOM PLATES AND ACCESS PANELS TO TRAP AND STOP. FURNISH WITH DF1 MOUNTING PLATE. PROVIDE WALL STOP & SUPPLY, AND P-TRAP.
EXF	-2 AM FOR BID AL	TROL TERNATE 1	ST-12-C	12"	12-1/2"	4.0 IN-LIN	E BL	ADDER	-	125 -	180 SI	ECTION VII, DI	V.1	P-7	SINGLE SINK (ADA)	ELKAY MODEL LRAD2522	COUNTERTOP SEE ARCH. FOR HEIGHT	1/2	" 1/2"	2"	1-1/2"	25"x22"x6.5" DEEP, SINGLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 3 HOLES. LK35 DRAIN. FURNISH WITH MOEN MODEL NO. 8790 HIGH-ARC FAUCET WITH 1.0 GPM AERATOR. PROVIDE WITH LOOSE KEY STOPS & SUPPLIES, P-TRAP, AND TRUBRO #102 HANDI LAV-GUARD KIT (IF REQUIRED).
	MANUFAG		НОТ	WATE	R CIRCL	JLATION F	PUMP	SCHED	ULE					P-8	DOUBLE SINK (ADA)	LRAD250	Countertop See Arch. For Height	1/2		2"	1-1/2"	33"x22"x6.5" DEEP, DOUBLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 HOLES. LK35 DRAIN. FURNISH WITH MOEN MODEL NO. 8792 HIGH-ARC FAUCET WITH SIDE SPRAY AND 1.0 GPM AERATOR. PROVIDE WITH IN-SINK-ERATOR BADGER 5, 1/2 HP MOTOR, 8.0 AMPS, 120V-1 PH-60 HZ DISPOSAL. PROVIDE WITH CONTINUOUS WASTE, LOOSE KEY STOPS & SUPPLIES, P-TRAP, AND TRUBRO #102 HANDI LAV-GUARD KIT & #107 CONTINUOUS WASTE COVER (IF REQUIRED)
SYMI HWC	OL (OR EQ	UAL)	MODEL 008	GPM 10	(FT.) HP		ASE HZ		CONNECTIONS	, IN-LINE UNIT, AL OCK AND AQUAST	L BRONZE CONSTRUCT AT.	ion.		P-9	SHOWER	COMFORT DESIGN MODEL XSS-3636 SH 4.0	STANDARD	1/2"	1/2"	2"	1-1/2"	POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. NON-ADA WITH 4" THRESHOLD, AND CURTAIN ROD. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB VALVE W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VAC. BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH. CURTAIN AND HOOKS FURNISHED BY OTHERS. PROVIDE WITH ZURN Z-415 DRAIN WITH ROUND STRAINER.
					·	LEX SUMI	P PUM	1PS						<b>D</b> 10			STANDARD	4/01	4/01	0"	1 1/2"	POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. ADA: BACK AND SIDE GRAB BARS, L-SHAPED FOLD-UP SEAT. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB VALVE W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD
MBOL MA	NUFACTURER	10DEL GPN	Λ (FT.) HF	ELECT P VOLTS PI			OMMENTS	LOCKED TO OP	ERATE AS DUF		SH COMPLETE WITH 30"	DIAx24" SUMF	2	P-10	SHOWER (ADA)	XST-6232-BF-5P	STANDARD	1/2"	1/2"	2"	1-1/2"	SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VAC. BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH. CURTAIN ROD AND CURTAIN WITH HOOKS BY OTHERS. PROVIDE WITH ZURN Z-415 DRAIN WITH ROUND STRAINER.
-1 -1A	LIBERTY ELV	/-280 50	10 1/2	2 115	1 60	ELEVATOR 20 PF	NCLOSURE, V FLOAT CI ROVIDE WIT	LOCKABLE LA RCUIT, UL 508 H ALARM LIGH	ΓCH, H-O-A SW RATED PANEL, Γ AND HORN IN	ITCHES, CIRCUIT AND PUMP RUN ( IDICATION, HIGH )	NTROL PANEL-SEE OIL E BREAKER, STARTERS, ( DPERATION INDICATION WATER ALARM ACTIVAT RACKET. FURNISH WIT	OVERLOAD RE I LIGHTS. TION, TIMER M	ELAYS,	P-11	MOP BASIN	FIAT MODEL TSBC6010	FLOOR	1/2	." 1/2"	3"	2"	WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL.
						SY	STEM COM	IPLETE WITH C	ONTROL PANE		I TO BE LOCATED AT A					MIS	SCELLAN	IEOU		<b>MBIN</b>	G FIXT	URE SCHEDULE
		KITCI	HEN EQ			MBING SC	HEDU	ILE						SYMBO	OL FIXTURE TY	PE MODEL	CW		IECTIONS	VENT	COM	MMENTS
SYMBOL	FIXTURE TYPE*		ROU	GH-IN CONNEC	CTIONS				COM	IENTS				FCO	FLOOR CLEANO (BUILDING, SEE ARCH. FOR FIN	E ZN-1400 NH			SEE PLANS			IO. ZN-1400-X NH, RECESSED FOR TILE. IO. ZN-1400-CF NH FOR CARPET, WITH MARKER
2.1, A03.1	WALK-IN EVAP. CO	CW	HW	WASTE	VENT	GAS HEAT	TAPE INSU	JLATE & JACKI		RAIN INSULATE 8	JACKET COOLER DRAI		FI OOR SINK	со	CLEANOUT (OUTSIDE OR A UNFINISHED A	ZURN NO. TZ-1400-HD N REA) CAST IRON	Н		SEE PLANS		BRONZE	E TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS.
, C02, D01, D39	HAND SINKS	1/2"	1/2"	2"	1-1/2"									wco					SEE PLANS		REQUIR   BRONZE	L WHERE C.O. BELOW FIXTURE CONNECTION IS RED BY CODE AND WHERE SHOWN ON PLANS. E PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS.
2.1, D06.1 B03	FIRE SUPP. SYSTE			 INDIRECT		(2) 3/4" (2)					D SUPPRESSION SYSTE			FD-1	FLOOR DRAIN	ZURN ZN-415 W/TYPE B			2"	2"	ROUND	PROOF SCREWS. TOP WITH VENTED P-TRAP. DE WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN)
B04	30 GAL TILT SKILL		1/2"			1/2"		,		, DUMPS TO FLOC				FS-1	FLOOR SINK	ZURN NO. Z-1900			3" OR 4"	2"		BODY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET BUARD (EXCEPT IN KITCHEN)
B05 306, D15	FLOOR TROUGH GRIDDLE RANGE			3" MIN.	2"	3/4"				ASE WASTE REQU AL GAS LOAD EAC				WHA-	1 WATER HAMME ARRESTOR	ER ZURN SHOKTROL	AS REQ'D				SIZED P	PER FIXTURE UNIT LOAD
B07 , B17, B24,	6 BURNER RANGE/O					3/4"				H TOTAL GAS LOA				AP	ACCESS PANE	L ELMDOR SLK 8"x8"					SPRING	ALL INSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC B BOLT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER TOR IN WALL.
D37 , D24, D28	TABLE AND SINK	S 1/2"		INDIRECT					RECT DRAINS F	ROUTED TO FLOO	R SINK(S)				WALL HYDRAN FREEZE RESIS	T ZURN TANT NO. Z-1310	3/4"				NON-FR AND LO	REEZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, OSE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT.
B35, B35.1 C03	ICE BIN, MAKER, FIL			INDIRECT INDIRECT						AINS TO FLOOR S				PRV-1	PRESSURE REDUCING VAL	VE FEBCO 500YSBR	3"					5 PSI SPRING, 110 GPM AT 15 PSI PRESSURE DROP, SET TO R 55 PSI TO BUILDING. PROVIDE WITH STRAINER AT INLET.
C05, C06	DISPOSER, PRE-WA			2"	1-1/2"			COLD WATE			ER TO PRE-WASH					SSURE FEBCO 880V VERTIO	CAL 3"				REDUCI SEATS.	ED PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE BRONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI.
C07	DISH MACHINE 3-COMP. SINK, PRE-V	 VASH 3/4"	1/2"	INDIRECT		110°l					ATER, DRAIN WATER TE	MPERING WIT	H UNIT	RPBP-2		SSURE FEBCO	6"				REDUCI	RTIFIED. DOMESTIC WATER SERVICE. ED PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE BRONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI.
D05	SODA SYSTEM	1/2"		INDIRECT					. ,	R SINK (GREASE	,				PRÉVENTER ROOF DRAIN	880V VERTIO		_	SEE	_	USC CE	RETIFIED. FIRE PROTECTION WATER SERVICE. METER DUAL OUTLET ROOF DRAIN WITH PRIMARY OUTLET CONNECTION. COATED CAST IRON DEEP SUMP WITH COMBINATION MEMBRANE FLASHING CLAMP/
D11						3/4"			•	H TOTAL GAS LOAD	AD					NO. Z-100			PLANS		GRAVEL	GUARD, AND LOW SILHOUTTE CAST IRON DOME.
D14 D42	CHARBROILER RAN SODA/ ICE DISPENS			INDIRECT		3/4"				OTAL GAS LOAD	NK				OVERFLOW ROOF DRAIN	ZURN NO. Z-100-W	2		SEE PLANS		DURA-C	COATED CAST IRON DEEP SUMP WITH ORIMARY OUTLET CONNECTION. COATED CAST IRON DEEP SUMP WITH COMBINATION MEMBRANE FLASHING CLAMP/ GUARD, 2" HIGH INTERNAL WATER DAM, AND LOW SILHOUTTE CAST IRON DOME.
43, D43.1	ICE MACHINE/FILT	ER 1/2"		INDIRECT					INDIRECT DF	AIN TO FLOOR SI	NK				DOWNSPOUT NOZZLE	ZURN NO. Z199-SS			SEE PLANS		NICKEL	BRONZE BODY, THREADED INLET AND DECORATIVE FACE WALL FLANGE AND NOZZLE, SCREEN
D45 D47	ICED TEA BREWE									VATER FROM D47 /4" WATER TO D4				GI-1	GREASE INTERCEPTOF	SCHIER MO NO. GB-250 TRAFFIC	DEL		4"	2"	BUILT-I	M FLOW RATE, 1060 LBS. MAXIMUM CAPACITY, SEAMLESS MOLDED POLYETHYLENE TANK WITH N FLOW CONTROL, INLET AND OUTLET DIFFUSERS REMOVABLE FOR INSPECTING AND CLEANING, RAL AIR RELIEF/ANTI-SIPHON/VISUAL INSPECTION. PROVIDE RISERS AS REQUIRED. TRAFFIC RATED
/IUA-B02	MAKE-UP AIR UNIT (	B02)				3/4"			254,500 BTU	H TOTAL GAS LOA	٩D			TMV-1	THERMOSTATI MIXING VALVE	C LEONARD N TM-186-8015 PRV-RO-0		1"			1-1/4" O	UTLET, HIGH-LOW MANIFOLD FACTORY PREASSEMBLED/TESTED
IUA-D06	MAKE-UP AIR UNIT (	D06)				3/4"			176,200 BTU	H TOTAL GAS LOA	AD					<sup>KV-KU-U</sup>						

DOMESTIC WATER HEATER													PLUMBING FIXTURE SCHEDULE										
SYM	/BOL MANUFACTUR (OR EQUAL)	ER	MODEL	TANK CAPACITY GALLONS	1ST HOUR DELIVERY	INPUT BTUH	CW H INLET OUT		R –	ELECTF		GAS CONN	T&P RELIEF	SYMBOL	FIXTURE TYPE	MANUF/MO (OR EQUA		FIXTURE MOUNTING HEIGHT	CW	CONN	ECTIONS	VENT	COMMENTS
WH- WH-			BTH-100	75	166 GALLONS	100,000	1" 1"	4"/4"		OLTS	PHASE	3/4"	3/4"	P-1	WATER CLOSET	AMERICAN STANDARD NO. 3451.001	15" T	TOP OF RIM	1"		4"	2" OR 4"	VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET ACTION, WHITE FINISH. OLSONITE NO. 95 OPEN FRONT SEAT, SLOAN CROWN NO. 111-1.28, 1.28 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED).
WH-		NATE 1	BTH-150	100	297 GALLONS	150,000	1-1/2" 1-1	2" 4"/4"		120	1	1"	1"	P-1A (	NATER CLOSET ADA)	"MADERA" AMERICAN STANDARD NO. 3461.001 "MADERA"		1/2" TOP RIM	1"		4"	2" OR 4" SEE DWG.	VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET ACTION, WHITE FINISH. OLSONITE NO. 95 OPEN FRONT SEAT, SLOAN CROWN NO. 111-1.28, 1.28 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED).
COMM	MENTS		R AND ASME STORA							I		I		P-2	JRINAL	AMERICAN STANDARD NO. 6950.005	5 24" T	OP OF RIM	3/4"		2"	1-1/2"	VITREOUS CHINA, FLUSH VALVE, WALL HUNG, TOP SPUD, WASHOUT FLUSH ACTION, WHITE FINISH. SLOAN CROWN NO. 186-0.125, 0.125 GPF HIGH EFF. WATER SAVER FLUSH VA (PISTON ACTIVATED). ZURN OR SMITH URINAL CARRIER SYSTEM.
CONTF STEEL FITTIN SET FC	ROLS, ASME RELIEF VALVE, L TANK CONSTRUCTION, INL NGS. COMPLETE ASSEMBLY OR OPERATION AT SITE ELE	HEAT EXCHANC ET AND OUTLET SHALL FACTOR` VATION, AGA RA	IGER, TANK THERMO T THERMOMETERS, RY ASSEMBLED. HEA RATED, LOW WATER	OMETER, GLASS-L , & PRE-PIPED WIT ATERS SHALL BE CUTOFF, STANDA	LINED TH ARD										AVATORY ADA)	"WASHBROO AMERICAN STANDARD NO. 0614.003 "STUDIO"		DERCOUNTER E ARCH. FOR JNTER HEIGHT	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 21.25"x15.25"x6.75", SELF-RIMMING, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVI WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F PER ASSE 1070.
BLOW	PMENT, STANDARD CONTRO /ER: 2.2 AMPS, IGNITER: 4.0 A RACTOR TO PROVIDE HEAT	MPS													AVATORY ADA)	AMERICAN STANDARD NO. 0321.075 "DECYLN"	5 WAL 34" T	LL MOUNTED TO RIM	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 20"x18", CONCEALED ARM, WHITE FINISH. ZURN Z-86500-XL-25M METERIN FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F PER ASSE 1070.
			E	XPANSIO	ON TANK S	SCHEDL	ILE								AVATORY ADA)	AMERICAN STANDARD NO. 0491.019 "RONDALYN"		JNTERTOP E ARCH. FOR JNTER HEIGHT	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 20"x17" OVAL, SELF-RIMMING, WHITE FINISH. ZURN Z-86500-XL-25M METE FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F
SYMB	BOL MANUFACTU (OR EQUAL)	RER MODE		vo	TANK DLUME MOUNT GAL)	ING TYPE	OPER. PRES		DPER. TEN	MP. (°F)	COMMEN	TS		P-6	DRINKING FOUNTAIN (ADA)	HAWS MODE	EL SEE	L MOUNTED	1/2"		2"	1-1/2"	PER ASSE 1070. WALL MOUNTED BARRIER-FREE, 18 GAUGE TYPE 304 SATIN STAINLESS STEEL FINISH WITH BUBBLER HEAD, FRONT PUSH-BUTTON, GRID STRAINER, VANDAL
EXP-	-1 AMTROL	ST-20V-	/-C 12"	19-1/2"	8.0 VERTIC	AL BLADD	ER -	125	-	180		ICTED PEF N VII, DIV.1			BINGLE SINK	ELKAY MODE		JNTING HEIGHTS JNTERTOP ARCH. FOR	\$ 	1/0"	2"	1 1/2"	RESISTANT BOTTOM PLATES AND ACCESS PANELS TO TRAP AND STOP. FURNISH WITH DF1 MOUNTING PLATE. PROVIDE WALL STOP & SUPPLY, AND P-TRAP. 25"x22"x6.5" DEEP, SINGLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 3 HOLES. LK35 DRAIN. FURNISH WITH MOEN MODEL NO. 8790 HIGH-ARC FAUCET
EXP-	-2 AMTROL FOR BID ALTERNA	ST-12-0	-C 12"	12-1/2"	4.0 IN-LIN	E BLADD	ER <sup>-</sup>	125	-	180					ADA)		HEIG	GHT	1/2"	1/2"			WITH 1.0 GPM AERATOR. PROVIDE WITH LOOSE KEY STOPS & SUPPLIES, P-TRAP, AND TRUBRO #102 HANDI LAV-GUARD KIT (IF REQUIRED).
0.445	MANUFACTURER				ILATION F										ADA)	ELKAY MODE LRAD250	SEE HEIG	JNTERTOP ARCH. FOR GHT	1/2"	1/2"	2"	1-1/2"	33"x22"x6.5" DEEP, DOUBLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 HOLES. LK35 DRAIN. FURNISH WITH MOEN MODEL NO. 8792 HIGH-ARC FAUCET WITH SIDE SPRAY AND 1.0 GPM AERATOR. PROVIDE WITH IN-SINK-ERATOR BADGER 5, 1/2 HP MOTOR, 8.0 AMPS, 120V-1 PH-60 HZ DISPOSAL. PROVIDE WITH CONTINUOUS WAST LOOSE KEY STOPS & SUPPLIES, P-TRAP, AND TRUBRO #102 HANDI LAV-GUARD KIT & #107 CONTINUOUS WASTE COVER (IF REQUIRED)
SYMB HWCP	(OR EQUAL)	008	IODEL GPM	(FT.) HP 12 1/8	VOLTS PHA	ASE HZ		TIONS, IN-LINE UNIT 1E CLOCK AND AQU	•	ONZE CO	ISTRUCTION.			P-9	SHOWER	COMFORT DESIGN MOE XSS-3636 SH		NDARD	1/2"	1/2"	2"	1-1/2"	POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. NON-ADA WITH 4" THRESHOLD, AND CURTAIN ROD. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB VALVE W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VAC. BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH. CURTAIN AND HOOKS FURNISHED BY OTHERS. PROVIDE WITH ZURN Z-415 DRAIN WITH ROUND STRAINER.
L MAN	NUFACTURER MODEL	GPM (FT.)			LEX SUMI	P PUMP	S							P-10	SHOWER (ADA)	COMFORT DESIGN MOE XST-6232-BF		NDARD	1/2"	1/2"	2"	1-1/2"	POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. ADA: BACK AND SIDE GRAB BARS, L-SHAPED FOLD-UP SEAT. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB VALVE W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VAC. BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH.
														1									CURTAIN ROD AND CURTAIN WITH HOOKS BY OTHERS. PROVIDE WITH ZURN
L	LIBERTY ELV-280	50 10	1/2 115	1 60 EI	ELEVATOR OF 20 PR FC	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX	NCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED ARM LIGHT AND H ALARM CONTACT	S DUPLEX UNIT. FU SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH	CONTRO CUIT BREA CUN OPER IGH WATE	OL PANEL AKER, ST RATION IN ER ALARN XET. FUR	SEE OIL DETEC RTERS, OVER DICATION LIGH ACTIVATION, <sup>-</sup> NISH WITH OIL	TION BELC OAD RELA S. IMER MET DETECTION	NYS, ERS N	P-11	MOP BASIN	FIAT MODEL TSBC6010	FLOO	DR	1/2"	1/2"	3"	2"	CURTAIN ROD AND CURTAIN WITH HOOKS BY OTHERS. PROVIDE WITH ZURN Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL.
	LIBERTY ELV-280	50 10	1/2 115	1 60 El	ELEVATOR ELEVATOR PR FC SY	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX (STEM COMPLE)	NCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED ARM LIGHT AND H ALARM CONTACT TE WITH CONTRO	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO	DL PANEL AKER, STA RATION IN ER ALARN CKET. FUR D BE LOCA	SEE OIL DETEC RTERS, OVER DICATION LIGH ACTIVATION, <sup>-</sup> NISH WITH OIL	TION BELC OAD RELA S. IMER MET DETECTION	NYS, ERS N	P-11	MOP BASIN	FIAT MODEL TSBC6010					<sup>3"</sup>	2"	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP
			1/2 115 EQUIPME		ELEVATOR 20 PR FC SY ME	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX (STEM COMPLE ECHANICAL FLO	NCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED ARM LIGHT AND H ALARM CONTACT TE WITH CONTRO AT TO SHUT-DOW	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO	DL PANEL AKER, STA RATION IN ER ALARN CKET. FUR D BE LOCA	SEE OIL DETEC RTERS, OVER DICATION LIGH ACTIVATION, <sup>-</sup> NISH WITH OIL	TION BELC OAD RELA S. IMER MET DETECTION	NYS, ERS N	P-11		TSBC6010			OUS CONNEC	PLUN	3" 1BINC	2" G FIXTI	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL.
	K				ELEVATOR 20 PR FC SY ME	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX (STEM COMPLE ECHANICAL FLO	NCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED ARM LIGHT AND H ALARM CONTACT TE WITH CONTRO AT TO SHUT-DOW	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO	DL PANEL AKER, STA RATION IN ER ALARN CKET. FUR D BE LOCA	SEE OIL DETEC RTERS, OVER DICATION LIGH ACTIVATION, <sup>-</sup> NISH WITH OIL	TION BELC OAD RELA S. IMER MET DETECTION	NYS, ERS N			YPE N OUT ZURN E ZN-14		ELLANE	OUS CONNEC HW			2" <b>FIXTU</b> COMM ZURN NO	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL.
1BOL			EQUIPME		ELEVATOR BING SC GAS	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX STEM COMPLE ECHANICAL FLO	NCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED ARM LIGHT AND H ALARM CONTACT TE WITH CONTRO AT TO SHUT-DOW	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO TION OF (	DL PANEL AKER, ST RATION IN ER ALARN KET. FUR D BE LOCA OIL.	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, <sup>-</sup> NISH WITH OIL TED AT ADMINI	TION BELC OAD RELA 'S. IMER MET DETECTION STRATION.	NYS, ERS N	SYMBOL	FIXTURE T	YPE M OUT ZURN E ZN-14 NISH) ZURN AT Z-140	MISCI MODEL		OUS CONNEC HW SP	PLUN TIONS WASTE	VENT	2" <b>FIXTU</b> COMM ZURN NO ZURN NO	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE MENTS
ИВОL А03.1 2, D01, 9	FIXTURE TYPE* WALK-IN EVAP. COIL HAND SINKS	CW       H             1/2"       1	EQUIPME         ROUGH-IN CONNE         HW       WASTE          INDIRECT         1/2"       2"	ECTIONS VENT 1-1/2"	ELEVATOR OF EN 20' PR FC SY ME ME GAS HEAT 	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE	ENCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED ARM LIGHT AND F ALARM CONTACT TE WITH CONTRO AT TO SHUT-DOW	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA	CONTRO CUIT BREA IGH WATE IES/BRAC LARM TO TION OF (	DL PANEL AKER, ST RATION IN ER ALARN CKET. FUR D BE LOCA OIL.	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI	TION BELC OAD RELA 'S. IMER MET DETECTION STRATION.	NYS, ERS N	SYMBOL FCO	FIXTURE T FLOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR	TSBC6010 YPE M OUT ZURN E ZN-14 NISH) ZURN AT Z-140 CAST ZURN	MODEL N NO. 100-HD NH F IRON TAP		OUS CONNEC HW S P S P	PLUN TIONS WASTE PLANS	VENT	2" <b>FIXTU</b> COMM ZURN NO ZURN NO BRONZE 1 INSTALL N REQUIRE BRONZE	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE WENTS 2. ZN-1400-X NH, RECESSED FOR TILE. 2. ZN-1400-CF NH FOR CARPET, WITH MARKER TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH
/IBOL A03.1 2, D01, 19 D06.1	FIXTURE TYPE* WALK-IN EVAP. COIL HAND SINKS FIRE SUPP. SYSTEM	CW     H        1       1/2"     1       1"	EQUIPME         ROUGH-IN CONNE         HW       WASTE          INDIRECT	ECTIONS VENT 1-1/2"	ELEVATOR OF EN 20' PR FC SY ME ME ME CAS HEAT I	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE	VATTS LF009 BFP,	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO TION OF ( TION OF ( 	DL PANEL AKER, ST RATION IN ER ALARN XET. FUR D BE LOCA OIL. OIL.	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, " NISH WITH OIL TED AT ADMINI ED AT ADMINI	TION BELC OAD RELA TS. IMER METH DETECTION STRATION.	NYS, ERS N	SYMBOL FCO CO	FIXTURE T FLOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR UNFINISHED	TSBC6010 YPE M OUT ZURN E ZN-14 NISH) ZURN AT Z-140 CAST OUT ZURN Z-146 ZURN	MODEL MODEL N NO. 400 NH N NO. 20-HD NH F IRON TAP N NO. 58 ZS N 15	ELLANE	OUS CONNEC HW S P S P	PLUN TIONS WASTE SEE PLANS SEE	VENT	2" <b>FIXTU</b> COM ZURN NO ZURN NO ZURN NO BRONZE 1 BRONZE 1 NSTALL N REQUIRE BRONZE 1 VANDAL-F ROUND T	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE MENTS 2. ZN-1400-X NH, RECESSED FOR TILE. 2. ZN-1400-CF NH FOR CARPET, WITH MARKER FOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS
/IBOL A03.1 2, D01, 9 D06.1 3 C 4	FIXTURE TYPE* WALK-IN EVAP. COIL HAND SINKS FIRE SUPP. SYSTEM COMBIN. OVEN/STEAMER 30 GAL TILT SKILLET	CW       H             1/2"       1         4) 3/4"          1/2"       1	EQUIPME         ROUGH-IN CONNE         HW       WASTE         INDIRECT         1/2"       2"          INDIRECT         1/2"          1/2"          1/2"          1/2"	ECTIONS VENT 1-1/2"	ELEVATOR OF EN 20' PR FC SY ME ABING SC HEAT HEAT (2) 3/4" (2)	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH E	PNCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED I ARM LIGHT AND H ALARM CONTACT TE WITH CONTRON AT TO SHUT-DOW	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA  ALARM SWITCH TO AL GAS LOAD, INDIF LOAD, DUMPS TO F	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO TION OF ( TION OF ( ATE & JAC HOOD SU RECT DRA FLOOR TF	DL PANEL AKER, ST RATION IN ER ALARM XET. FUR D BE LOCA OIL. DIL. CKET COO JPPRESSI AINS ROU ROUGH BU	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI	TION BELC OAD RELA TS. IMER METH DETECTION STRATION.	NYS, ERS N	SYMBOL FCO CO WCO	FIXTURE T FLOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR UNFINISHED WALL CLEANO	TSBC6010 YPE M OUT ZURN E ZN-14 NISH) ZURN AT Z-140 CAST OUT ZURN Z-146 DUT ZURN Z-146	MODEL MODEL N NO. 400 NH N NO. 20-HD NH F IRON TAP N NO. 58 ZS N 15 (PE B N NO.	ELLANE	OUS CONNEC HW S P S P	PLUN TIONS WASTE SEE PLANS SEE	VENT	2" <b>FIXTU</b> COMP ZURN NO ZURN NO ZURN NO BRONZE 1 VANDAL-F BRONZE 1 VANDAL-F ROUND T PROVIDE A.R.E. BO	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE WENTS 2. ZN-1400-X NH, RECESSED FOR TILE. 2. ZN-1400-CF NH FOR CARPET, WITH MARKER TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP.
ИВОL А03.1 2, D01, 9 D06.1 3 С	FIXTURE TYPE* WALK-IN EVAP. COIL HAND SINKS FIRE SUPP. SYSTEM COMBIN. OVEN/STEAMER	CW       H             1/2"       1         1"          4) 3/4"          1/2"       1	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT INDIRECT	ECTIONS VENT 1-1/2"	ELEVATOR OF EN 20' PR FC SY ME ABING SC HEAT HEAT (2) 3/4" (2) 2	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH E	PNCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTRON AT TO SHUT-DOW E E FE, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA  ALARM SWITCH TO	CONTRO CUIT BREA IGH WATE IGH WATE IES/BRAC LARM TO TION OF ( TION OF ( ATE & JAC HOOD SU RECT DRA FLOOR TF	DL PANEL AKER, ST RATION IN ER ALARM XET. FUR D BE LOCA OIL. DIL. CKET COO JPPRESSI AINS ROU ROUGH BU	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI	TION BELC OAD RELA TS. IMER METH DETECTION STRATION.	NYS, ERS N	SYMBOL FCO CO WCO FD-1	FIXTURE T FLOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR UNFINISHED / WALL CLEANO FLOOR DRAIN	TSBC6010 YPE M OUT ZURN ZN-14 VISH) AT Z-140 CAST DUT ZURN Z-146 VISH UT ZURN ZURN ZURN Z-146 VISH UT ZURN ZURN ZURN ZURN Z-140 CAST DUT ZURN Z-140 ZURN Z-190	MODEL MODEL N NO. 400 NH N NO. 20-HD NH F IRON TAP N NO. 58 ZS N 15 (PE B N NO. 20	ELLANE	OUS CONNEC HW S P S P	PLUN TIONS WASTE EE PLANS EE PLANS EE PLANS 2"	VENT 2"	2" <b>FIXTU</b> COMM ZURN NO ZURN NO ZURN NO BRONZE I VANDAL-F ROUND T PROVIDE A.R.E. BO TRAP GU,	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE MENTS 2. ZN-1400-X NH, RECESSED FOR TILE. 2. ZN-1400-CF NH FOR CARPET, WITH MARKER FOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP. WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) DDY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET
//BOL A03.1 2, D01, 9 D06.1 3 C 4 5 D15 7	FIXTURE TYPE*  FIXTURE TYPE*  WALK-IN EVAP. COIL HAND SINKS FIRE SUPP. SYSTEM  KINE SUPP. SYSTEM  GRIDDLE RANGE  GRIDDLE RANGE  BURNER RANGE/OVEN	CW       H             1/2"       1         1"          (4) 3/4"          1/2"       1	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT 1/2" INDIRECT 1/2" INDIRECT 1/2" INDIRECT 1/2" INDIRECT	ECTIONS  VENT  1-1/2"  1-1/2"  2"  2"   2"	ELEVATOR OF EN 20' PR FC SY ME ABING SC AS HEAT  (2) 3/4" (2) - (2) - 1/2" (2) - (2) -	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH E	PNCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED I ARM LIGHT AND H ALARM CONTACT TE WITH CONTROL AT TO SHUT-DOW TO SHUT-DOW TO SHUT-DOW TO SHUT-DOW TO SHUT-DOW ATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA  ALARM SWITCH TO AL GAS LOAD, INDIF LOAD, DUMPS TO F , GREASE WASTE R D TOTAL GAS LOAD 10 BTUH TOTAL GAS	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO TION OF ( TION OF ( ATE & JAC HOOD SU RECT DRA FLOOR TR EACH EACH S LOAD	DL PANEL- AKER, ST/ RATION IN ER ALARM XET. FUR D BE LOCA OIL. CKET COO JPPRESSI AINS ROU ROUGH BU	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI	TION BELC OAD RELA TS. IMER METH DETECTION STRATION.	NYS, ERS N	SYMBOL FCO CO WCO FD-1 FS-1	FIXTURE T FLOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR UNFINISHED) WALL CLEANO FLOOR DRAIN FLOOR SINK	TSBC6010 YPE M OUT ZURN ZN-14 VISH) AT ZURN Z-140 CAST DUT ZURN Z-146 VISH UT ZURN ZURN Z-146 VISH UT ZURN ZURN Z-146 VISH ZURN Z-146 VISH	MODEL MODEL N NO. 400 NH N NO. 20-HD NH F IRON TAP N NO. 38 ZS N 15 (PE B N NO. 20 N KTROL	ELLANE CW	OUS CONNEC HW S P S P	PLUN TIONS WASTE DEE DLANS DEE DLANS 2" 3" OR 4"	VENT 2"	2" <b>FIXTU</b> COMM ZURN NO ZURN NO ZURN NO BRONZE 1 BRONZE 1 BRONZE 1 NSTALL N REQUIRE BRONZE 1 VANDAL-F ROUND T PROVIDE A.R.E. BO TRAP GU SIZED PE DRY WAL SPRING E	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. <b>JRE SCHEDULE</b> WENTS 2. ZN-1400-X NH, RECESSED FOR TILE. 2. ZN-1400-CF NH FOR CARPET, WITH MARKER TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP. WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) DDY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET ARD (EXCEPT IN KITCHEN)
ABOL A03.1 2, D01, 9 D06.1 3 C 4 5 D15	FIXTURE TYPE*  FIXTURE TYPE* WALK-IN EVAP. COIL HAND SINKS FIRE SUPP. SYSTEM COMBIN. OVEN/STEAMER 30 GAL TILT SKILLET FLOOR TROUGH GRIDDLE RANGE	CW       H             1/2"       1         1"          (4) 3/4"          1/2"       1             1/2"       1             1/2"       1             1/2"       1             1/2"       1         1/2"       1	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT 1/2"	ECTIONS          VENT         1-1/2"            2"	ELEVATOR OF EN 20' PR FC SY ME ABING SC 4 GAS HEAT  (2) 3/4" (2) - (2) - 1/2" (2) -	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH E	PNCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTROI AT TO SHUT-DOW E, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 INDIRECT DF	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA  ALARM SWITCH TO AL GAS LOAD, INDIF LOAD, DUMPS TO F , GREASE WASTE R D TOTAL GAS LOAD	CONTRO CUIT BREA IGH WATE IES/BRAC LARM TO TION OF ( TION OF ( ATE & JAC HOOD SU RECT DRA FLOOR TF EQUIRED EACH S LOAD	DL PANEL- AKER, ST/ RATION IN ER ALARM XET. FUR D BE LOCA OIL. CKET COO JPPRESSI AINS ROU ROUGH BI D	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI	TION BELC OAD RELA TS. IMER METH DETECTION STRATION.	NYS, ERS N	SYMBOL FCO CO WCO FD-1 FS-1 WHA-1	FILOOR DRAIN FLOOR SINK CLEANOUT (OUTSIDE OR UNFINISHED) FLOOR DRAIN FLOOR SINK WATER HAMM ARRESTOR ACCESS PAN WALL HYDRA	TSBC6010 YPE M OUT ZURN ZN-14 NISH) AT Z-140 CAST DUT ZURN Z-140 CAST DUT ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 ZURN Z-190 ZURN Z-190	MODEL MODEL N NO. 400 NH N NO. 20-HD NH F IRON TAP N NO. 58 ZS N 15 (PE B N NO. 58 ZS N 15 (PE B N NO. 20 N KTROL	ELLANE CW	OUS CONNEC HW S P S P	PLUN TIONS WASTE DEE DLANS DEE DLANS 2" 3" OR 4"	VENT 2" 2"	2" <b>FIXTU</b> COMM ZURN NO ZURN NO ZURN NO BRONZE 1 AREQUIRE BRONZE 1 VANDAL-F ROUND T PROVIDE A.R.E. BO TRAP GU SIZED PE DRY WAL SPRING E ARRESTO NON-FRE	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE WENTS . ZN-1400-X NH, RECESSED FOR TILE. . ZN-1400-CF NH FOR CARPET, WITH MARKER TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP. WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) DY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET ARD (EXCEPT IN KITCHEN) R FIXTURE UNIT LOAD LINSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC BOLT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER
ABOL A03.1 2, D01, 9 D06.1 3 C 4 5 D15 7 7 7, B24, 7 7, B24, 7 7, B24, 7 4, D28 5, B35.1	FIXTURE TYPE* K FIXTURE TYPE* 1 WALK-IN EVAP. COIL 1 HAND SINKS 1 FIRE SUPP. SYSTEM 1 COMBIN. OVEN/STEAMER 1 30 GAL TILT SKILLET 1 SOUTH STEAMER 1 GRIDDLE RANGE 1 GRIDDLE RANGE 1 GRIDDLE RANGE 1 1 GRIDDLE RANGE 1 1 GRIDDLE RANGE 1 1 GRIDDLE RANGE 1 1 GRIDDLE RANGE 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CW       H             1/2"       1         1"          4) 3/4"          1/2"       1             1/2"       1             1/2"       1         1/2"       1             3/4"	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT 1/2" 2" INDIRECT I/2" 3" MIN. INDIRECT I/2" INDIRECT I/2" INDIRECT I/2" INDIRECT I/2" INDIRECT I/2" INDIRECT I/2" INDIRECT	ECTIONS	ELEVATOR OF EN 200 PR 500 PR FC SY ME ABING SC 400 PR FC SY ME 400 PR FC SY PR FC SY ME 400 PR FC SY PR SY PR FC SY PR FC SY PR FC SY PR FC SY PR FC SY PR FC SY PR FC SY PR FC SY PR FC SY PR FC SY PR FC SY SY PR FC SY PR FC SY SY PR FC SY PR FC SY SY PR SY SY SY SY SY SY SY SY SY SY SY SY SY	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL OR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH E	PNCRETE FORMED KABLE LATCH, H-( IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTRON AT TO SHUT-DOW E, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 INDIRECT DI INDIRECT DI INDIRECT DI INDIRECT DI	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA  ALARM SWITCH TO AL GAS LOAD, INDIF LOAD, DUMPS TO F , GREASE WASTE R D TOTAL GAS LOAD 0 BTUH TOTAL GAS AINS ROUTED TO F AINS FOUTED TO F AINS FOUTED TO F	CONTRO CUIT BREA RUN OPER IGH WATE ISS/BRAC LARM TO TION OF O TION OF O TION OF O LARM TO TION OF O TION OF O COR SINK	DL PANEL- AKER, ST/ RATION IN ER ALARM XET. FUR D BE LOCA OIL. CKET COO JPPRESSI AINS ROU ROUGH BU D NK(S)	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI	TION BELC OAD RELA TS. IMER METH DETECTION STRATION.	NYS, ERS N	SYMBOL FCO CO WCO FD-1 FS-1 WHA-1 AP	FILOOR DRAIN FLOOR DRAIN CLEANOUT (OUTSIDE OR UNFINISHED FLOOR DRAIN FLOOR SINK WATER HAMN ARRESTOR ACCESS PAN WALL HYDRA FREEZE RESI	TSBC6010 YPE M OUT ZURN ZN-14 NISH) AT ZURN Z-140 CAST DUT ZURN Z-140 CAST DUT ZURN Z-146 VT ZURN Z-190 IER ZURN SHOP EL ELME SLK 8	MODEL MODEL N NO. 400 NH N NO. 20-HD NH F IRON TAP N NO. 58 ZS N 15 PE B N NO. 58 ZS N 15 PE B N NO. 58 ZS N 15 PE B N NO. 58 ZS N 15 PE B N NO. 58 ZS N 15 PE B N NO. 58 ZS N 15 PE B N NO. 58 ZS N 15 PE B N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 N N NO. 20 NO. 20 N N N NO. 20 NO. 20 N N N N N N N N N N N N N N N N N N	ELLANE         CW                     AS REQ'D            3/4"	OUS         CONNEC         HW            P            P            P            P            P            P            P            P            P            P      P	PLUN TIONS WASTE SEE PLANS 2" 3" OR 4" 	VENT 2" 2"	2" <b>FIXTU</b> COMM ZURN NO ZURN NO ZURN NO ZURN NO BRONZE I VANDAL-F BRONZE I VANDAL-F	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE WENTS 2. ZN-1400-ZNH, RECESSED FOR TILE. 2. ZN-1400-CF NH FOR CARPET, WITH MARKER FOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP. WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) DY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET ARD (EXCEPT IN KITCHEN) R FIXTURE UNIT LOAD L INSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC BOLT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER R FIXTURE UNIT LOAD L INSTALLATION, AND AUTOMATIC DRAINING, WITH P.B. BOX, SE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. FISI SPRING, 110 GPM AT 15 PSI PRESSURE DROP, SET TO
ABOL A03.1 2, D01, 9 D06.1 3 C 4 5 D15 7 7 7, B24, 7, B24, 7, B24, 7, B24, 7, B24, 7, B24, 10 5, B35.1 3	FIXTURE TYPE* K FIXTURE TYPE* 1 WALK-IN EVAP. COIL 1 HAND SINKS 1 FIRE SUPP. SYSTEM 1 COMBIN. OVEN/STEAMER 1 30 GAL TILT SKILLET 1 SOLED DISH TABLE 1	CW       H             1/2"       1         1/2"       1             1/2"       1             1/2"       1         1/2"       1         1/2"       1         1/2"       1             3/4"              3/4"	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT 1/2" 2" 3" MIN 3" MIN 1/2" INDIRECT 1/2" INDIRECT 1/2" INDIRECT	ECTIONS	ELEVATOR OF EN 200 PR 500 PR FC SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY ME 500 SY SY ME 500 SY SY ME 500 SY SY SY SY SY SY SY SY SY SY SY SY SY	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH E	NCRETE FORMED KABLE LATCH, H-G IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTROL AT TO SHUT-DOW E, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 INDIRECT DI INDIRECT DI INDIRECT DI INDIRECT DI INDIRECT DI	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA  ALARM SWITCH TO AL GAS LOAD, INDIF LOAD, DUMPS TO F , GREASE WASTE R D TOTAL GAS LOAD 0 BTUH TOTAL GAS AINS FOUTED TO F AINS FOUTED TO F	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO TION OF ( TION OF ( A TE & JAC HOOD SU RECT DRA FLOOR TF EQUIRED EACH CACH COOR SINK OR SINK	DL PANEL- AKER, ST/ RATION IN ER ALARM XET. FUR D BE LOCA OIL. CKET COO JPPRESSI AINS ROU ROUGH BU D NK(S) NK(S)	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI ED TO FLOOR 5	TION BELC OAD RELA TS. IMER METH DETECTION STRATION.	NYS, ERS N	SYMBOL FCO CO WCO FD-1 FS-1 WHA-1 AP WHY-1 PRV-1	FLOOR DRAIN FLOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR UNFINISHED) WALL CLEANO FLOOR DRAIN FLOOR SINK FLOOR SINK WATER HAMN ARRESTOR ACCESS PAN ACCESS PAN WALL HYDRA FREEZE RESI WALL HYDRA FREEZE RESI	TSBC6010 YPE M OUT ZURN ZN-14 OUT ZURN Z-140 CAST OUT ZURN Z-140 CAST OUT ZURN Z-140 CAST OUT ZURN Z-140 CAST VT ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 ZURN Z-190 IER ZURN Z-190 IER ZURN Z-190 ZURN	MODEL MODEL MODEL N NO. 400 NH N NO. 20-HD NH FIRON TAP N NO. 208 ZS N 15 YPE B N NO. 200 N KTROL DOR 8"x8" N Z-1310 CO	ELLANE CW	OUS         CONNEC         HW            P            P            P            P            P            P            P            P            P            P      P	PLUN TIONS WASTE DEE DLANS 2" 3" OR 4" 	VENT 2" 2"	2" <b>FIXTU</b> COMM ZURN NO ZURN NO ZURN NO ZURN NO BRONZE 1 KEQUIRE BRONZE 1 VANDAL-F ROUND T PROVIDE A.R.E. BO TRAP GU SIZED PE DRY WAL SPRING E ARRESTO NON-FRE AND LOO 25 TO 75 DELIVER REDUCEE SEATS. B	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. <b>JRE SCHEDULE</b> WENTS . ZN-1400-X NH, RECESSED FOR TILE. . ZN-1400-CF NH FOR CARPET, WITH MARKER TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP. WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) IDY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET ARD (EXCEPT IN KITCHEN) R FIXTURE UNIT LOAD L INSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC 30LT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER PRINCE IN COCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER PRINCE, SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. EZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, SE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. PSI SPRING, 110 GPM AT 15 PSI PRESSURE DROP, SET TO 55 PSI TO BUILDING. PROVIDE WITH STRAINER AT INLET. D PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI.
ABOL A03.1 2, D01, 9 D06.1 3 C06 4 5 D15 7 7 7, B24, 7 7, B24, 7 7, B24, 7 7, B24, 7 7, B24, 7 7 8 5, B35.1 3 C06 7	FIXTURE TYPE*       I         FIXTURE TYPE*       I         WALK-IN EVAP. COIL       I         HAND SINKS       I         FIRE SUPP. SYSTEM       I         GOMBIN. OVEN/STEAMER       I         30 GAL TILT SKILLET       I         GRIDDLE RANGE       I         GRIDDLE RANGE/OVEN       I         ABLE AND SINK       I         ICE BIN, MAKER, FILTER       I         JOISH MACHINE       I	CW       H             1/2"       1         1"          4) 3/4"          4) 3/4"          1/2"       1             1/2"       1         1/2"       1             1/2"       1      1/2"       1      1/2" <td>EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT 1/2" 1 INDIRECT I/2" 1 INDIRECT I/2" INDIRECT</td> <td>ECTIONS</td> <td>ELEVATOR OF EN 200 PR FC SY ME ABING SC AS  HEAT  1 (2) 3/4" (2) 7 (2) 7 (2) 3/4" (2) 7 (1/2" (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2</td> <td>R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH EA CC F WATER MINIM</td> <td>NCRETE FORMED KABLE LATCH, H-G IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTRON AT TO SHUT-DOW E, &amp; JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 INDIRECT DI INDIRECT DI INDIRECT DI INDIRECT DI UNDIRECT DI UNDIRECT DI UNDIRECT DI UNDIRECT DI UNDIRECT DI</td> <td>SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA  ALARM SWITCH TO AL GAS LOAD, INDIF LOAD, DUMPS TO F I GREASE WASTE R D TOTAL GAS LOAD 0 BTUH TOTAL GAS AINS ROUTED TO F AINS FOUTED TO F AINS FOUTED TO F CT DRAINS TO FLOC POSER AND COLD W MENDED, BOOSTEF</td> <td>CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO TION OF ( TION OF ( ATE &amp; JAC HOOD SU RECT DRA FLOOR TR EACH CACH COOR SINK DR SINK WATER TO R SINK</td> <td>DL PANEL- AKER, ST/ RATION IN ER ALARM XET. FUR D BE LOCA OIL. CKET COO JPPRESSI AINS ROU ROUGH BU D NK(S) NK(S) NK(S)</td> <td>SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI CON SYSTEM TED TO FLOOR 5 SH ATER TEMPER</td> <td>TION BELC OAD RELA TS. IMER METION DETECTION STRATION.</td> <td>NYS, ERS N -OOR SINK</td> <td>SYMBOL FCO CO WCO FD-1 FS-1 WHA-1 WHA-1 AP WHY-1 PRV-1</td> <td>FLOOR DRAIN FLOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR UNFINISHED) WALL CLEANO FLOOR DRAIN FLOOR DRAIN FLOOR SINK WATER HAMN ARRESTOR ACCESS PAN ACCESS PAN BRESSURE REDUCED PR BACKFLOW PREVENTER REDUCED PR</td> <td>TSBC6010         YPE         OUT         ZURN         AT         XISH)         ZURN         ZURN      &lt;</td> <td>MODEL MODEL MODEL N NO. 400 NH N NO. 20-HD NH FIRON TAP N NO. 20-HD NH FIRON TAP</td> <td>ELLANE CW</td> <td>OUS         CONNEC         HW            P            SP            SP         SP         SP         SP         SP         SP         SP         SP         SP         SP         SP         SP         SP         SP         SP         SP      SP<td>PLUN TIONS WASTE DEE DLANS 2" 3" OR 4"  </td><td>VENT 2" 2"</td><td>2" <b>FIXTU</b> COMM ZURN NO ZURN NO ZURN NO ZURN NO BRONZE 1 ARCUIRE BRONZE 1 VANDAL-F ROUND T PROVIDE A.R.E. BO TRAP GU SIZED PE SIZED PE DRY WAL SPRING E ARRESTO NON-FRE AND LOO 25 TO 75 DELIVER REDUCEE SEATS. B USC CER</td><td>Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE WENTS 2 ZN-1400-CP NH FOR CARPET, WITH MARKER TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAILLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP. WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) DY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET ARD (EXCEPT IN KITCHEN) R FIXTURE UNIT LOAD L INSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC BOT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER R IN WALL. EZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, SE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. EZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, SE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. EZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, SE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. EZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, SE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. EZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, SE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. EZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, SE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT. EZE, ANTI-SIPHON, AND AUTOMATIC DRAINING RESSURE OF 175 PSI. TIFED. DOMESTIC WATER SERVICE. D PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFED. DOMESTIC WATER SERVICE. D PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE</td></td>	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT 1/2" 1 INDIRECT I/2" 1 INDIRECT I/2" INDIRECT	ECTIONS	ELEVATOR OF EN 200 PR FC SY ME ABING SC AS HEAT 1 (2) 3/4" (2) 7 (2) 7 (2) 3/4" (2) 7 (1/2" (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2) 7 (1/2") (2	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH EA CC F WATER MINIM	NCRETE FORMED KABLE LATCH, H-G IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTRON AT TO SHUT-DOW E, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 INDIRECT DI INDIRECT DI INDIRECT DI INDIRECT DI UNDIRECT DI UNDIRECT DI UNDIRECT DI UNDIRECT DI UNDIRECT DI	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. 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OVEN/STEAMER       I         GRIDDLE RANGE       I         GRIDDLE RANGE       I         GRIDDLE RANGE/OVEN       I         ICE BIN, MAKER, FILTER       I         SOILED DISH TABLE       I         DISPOSER, PRE-WASH       I	CW       H             1/2"       1         1"          4) 3/4"          4) 3/4"          1/2"       1             1/2"       1         1/2"       1             3/4"          3/4"       1          1         3/4"          3/4"       3          1         3/4"       3          1         3/4"       3	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT 1/2" 2" 3" MIN 3" MIN 3" MIN 1/2" 1NDIRECT 1/2" INDIRECT INDIRECT INDIRECT INDIRECT INDIRECT INDIRECT INDIRECT INDIRECT	ECTIONS	ELEVATOR OF EN 200 PR FC SY ME ABING SC GAS HEAT  (2) 3/4" (2) 7 (2) 7 (2) 3/4" (2) 7 (2) 7	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH EA CC F WATER MINIM	PNCRETE FORMED KABLE LATCH, H-G IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTROL AT TO SHUT-DOW E. 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FSI SPRING, 110 GPM AT 15 PSI PRESSURE DROP, SET TO 55 PSI TO BUILDING. PROVIDE WITH STRAINER AT INLET. PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE RODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFED. DING STRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFED. FIRE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE RODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFED. FIRE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE RODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFED. DING STRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFED. FIRE PRONCER SERVICE. D PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE RODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFED. FIRE PROTECTION WATER SERVICE. D PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE RODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFED. TIFED. TOMAL RESERVICE. 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ABOL A03.1 2, D01, 3 D06.1 3 C06.1 4 5 D15 7 7 4, D28 5, B35.1 3 C06 7 C14 3 5 C06 7 C14 3 5 C14 3	FIXTURE TYPE*	CW       H             1/2"       1         1"          1/2"       1         1/2"       1             1/2"       1             1/2"       1             1/2"       1         1/2"       1             1/2"       1         1/2"       1         3/4"          3/4"       3         1/2"       1         3/4"       3         1/2"       1	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT 1/2" 2" INDIRECT I/2" 3" MIN. III INDIRECT I/2" INDIRECT	ENT PLUM ECTIONS VENT 1-1/2" 1-1/2" 1-1/2" 2" 1 1-1/2" 1-1/2" 1-1/2" 1-1/2" 1-1/2" 1-1/2"	ELEVATOR OF EN 200 PR 50 PR 500 PR 500 PR 5	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH EA CC F WATER MINIM	PNCRETE FORMED KABLE LATCH, H-G IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTRON AT TO SHUT-DOW E, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 INDIRECT DF INDIRECT DF	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA  ALARM SWITCH TO AL GAS LOAD, INDIF LOAD, DUMPS TO F , GREASE WASTE R D TOTAL GAS LOAD 0 BTUH TOTAL GAS AINS ROUTED TO F AINS FOUTED TO F AINS FOUTED TO F CT DRAINS TO FLOC POSER AND COLD W MENDED, BOOSTEF FLOOR SINK (GREA	CONTRO CUIT BREA IGH WATE IGH WATE IS/BRAC LARM TO TION OF O LARM TO TION OF O LOON OF O EACH SLOOR SIN COR SINK OR SINK WATER TO R SINK	DL PANEL- AKER, ST/ RATION IN ER ALARM XET. FUR D BE LOCA OIL. CKET COO JPPRESSI AINS ROU ROUGH BU D NK(S) NK(S) NK(S)	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI CON SYSTEM TED TO FLOOR 5 SH ATER TEMPER	TION BELC OAD RELA TS. IMER METION DETECTION STRATION.	NYS, ERS N -OOR SINK	SYMBOL SYMBOL FCO CO WCO FD-1 FS-1 WHA-1 FS-1 WHA-1 AP WHY-1 RPBP-1	FLOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR UNFINISHED) WALL CLEANO FLOOR DRAIN FLOOR DRAIN FLOOR SINK WATER HAMN ARRESTOR ACCESS PAN ACCESS PAN BACKESS PAN REDUCED PR BACKFLOW PREVENTER REDUCED PR BACKFLOW	TSBC6010 YPE M OUT ZURN ZN-14 OUT ZURN Z-140 CAST DUT ZURN Z-140 CAST DUT ZURN Z-140 CAST DUT ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 CAST ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-140 ZURN Z-190 IER ZURN Z-190 IER	MODEL MODEL MODEL MODEL NO. 400 NH NO. 20-HD NH FIRON TAP NO. 20-HD NH FIRON TAP	CW         CW                     AS REQ'D         AS REQ'D         3/4"         3/4"         3"         3"         6"	OUS         CONNEC         HW            P            P            P            P            P            P            P            P            P            P      P	PLUN TIONS WASTE DEE DEANS 2" 3" OR 4"   	VENT 2" 2"	2" <b>FIXTU</b> COMM ZURN NO ZURN NO ZURN NO ZURN NO ZURN NO BRONZE I NSTALL N REQUIRE BRONZE I VANDAL-F ROUND T PROVIDE A.R.E. 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D PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFIED. DOMESTIC OF ORAN WITH PRIMENTION MEMBRANE FLASHING CLAMP/ SUARD, AND LOW SILHOUTTE CAST IRON DOME.
//BOL         A03.1         2, D01,         9         D06.1         3         2, D01,         9         D06.1         3         4         5         D15         7         4, D28         5, B35.1         3         C06         13         13         13         14	FIXTURE TYPE*	CW       H             1/2"       1         1"          4) 3/4"          1/2"       1             1/2"       1             1/2"       1         1/2"       1             3/4"          3/4"          3/4"          3/4"          1/2"       1         1/2"       1         1/2"          3/4"          1          1/2"       1             1          1/2"	EQUIPME ROUGH-IN CONNE HW WASTE INDIRECT 1/2" 2" INDIRECT I/2" 2" INDIRECT I/2" 3" MIN. I.I.INDIRECT I/2" 3." MIN. I.I.INDIRECT I/2" INDIRECT I.I.INDIRECT I.I.IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ECTIONS	ELEVATOR ABING SC GAS HEAT GAS HEAT 1 (2) 3/4" (2) - (2) 3/4" (2) - (2) 3/4" (2) - (2) - (2) 3/4" (2) - (2) - (2) - (2) 3/4" (2) - (2) - (2	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH EA CC F WATER MINIM	NCRETE FORMED KABLE LATCH, H-G IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTROL AT TO SHUT-DOW E, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 104,000 TOTAL GAS FOR B04 72,00 210,0 100 RECT DR INDIRECT DI INDIRECT DI INDIRECT DI INDIRECT DI INDIRECT DI INDIRECT DI INDIRE DLD WATER TO DIS UM, 140° F RECOM RECT DRAIN(S) TO INDIR 220,0 8	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA 	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO TION OF ( ATE & JAC HOOD SU RECT DRA FLOOR TH EACH CACH COOR SINK COR SINK OR SINK WATER TO R SINK WATER TO R SINK WATER TO R SINK	DL PANEL- AKER, ST/ RATION IN ER ALARM XET. FUR D BE LOCA OIL. CKET COO JPPRESSI AINS ROU ROUGH BU D NK(S) NK(S) NK(S)	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI CON SYSTEM TED TO FLOOR 5 SH ATER TEMPER	TION BELC OAD RELA TS. IMER METION DETECTION STRATION.	NYS, ERS N -OOR SINK	SYMBOL           FCO           CO           WCO           FD-1           FS-1           WHA-1           AP           WHY-1           PRV-1           RPBP-1           RPBP-2	FILOOR CLEAN (BUILDING, SE ARCH. FOR FI CLEANOUT (OUTSIDE OR UNFINISHED) WALL CLEANO FLOOR DRAIN FLOOR DRAIN FLOOR SINK FLOOR SINK WATER HAMN ARRESTOR ACCESS PAN ACCESS PAN PRESSURE REDUCED PR BACKFLOW PREVENTER REDUCED PR BACKFLOW PREVENTER	TSBC6010         YPE         OUT         ZURN         NT         ZURN         STANT         ZURN         SSURE         FEBC         880V         ZURN         ZURN         SSURE         FEBC         880V         ZURN         NO. Z         ZURN         ZURN         ZURN         ZURN         ZURN         ZURN         ZURN         ZURN         ZURN	MODEL MODEL MODEL NO. 400 NH NO. 00-HD NH FIRON TAP NO. 58 ZS N 15 (PE B N NO. 58 ZS N 15 (PE B N NO. 50 20 N COR 8"x8" N 2-1310 CO VERTICAL	CW         CW                        AS REQ'D         AS REQ'D         3'/4"         3''         3''            3''	DUS         CONNEC         HW            P            P            P            P            P            P            P            P            P            P            P <tr tr="">  P&lt;</tr>	PLUN TIONS WASTE ELANS EE LANS 2" 3" OR 4"	VENT 2" 2"	2" 2" COMM COMM ZURN NO ZURN NO ZURN NO ZURN NO BRONZE 1 ARCUIRE BRONZE 1 VANDAL-F ROUND T PROVIDE A.R.E. BO TRAP GU SIZED PE SIZED PE DRY WAL SPRING E ARRESTO A.R.E. BO TRAP GU SIZED PE DRY WAL SPRING E ARRESTO A.R.E. BO TRAP GU SIZED PE BRONZE 1 VANDAL-F ROUND T PROVIDE A.R.E. BO TRAP GU SIZED PE SIZED PE ARRESTO ARRESTO DRY WAL SPRING E ARRESTO IST DIAME DURA-CO IST DIAME DURA-CO	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42° AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRE SCHEDULE WENTS ZN-1400-X NH, RECESSED FOR TILE. ZN-1400-CP NH FOR CARPET, WITH MARKER TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C. O. BELOW FIXTURE CONNECTION IS D BY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP. WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) DY (12°X12°X8°) TOP GRATE, 8° DEEP SUMP, WITH PROSET ARD (EXCEPT IN KITCHEN) R FIXTURE UNIT LOAD LINSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC SOLT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER PRI SPRING, 110 GPM AT 15 PSI PRESSURE DROP, SET TO 55 PSI TO BUILDING. PROVIDE WITH STRAINER AT INLET. PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFIED. DOMESTICHEN WATER SERVICE. PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFIED. DOMESTICH AND AUTOMATIC DRAINING, WITH P. STRAINER AND REPLACABLE RONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFIED. DOMESTIC WATER SERVICE. PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFIED. DOMESTIC WATER SERVICE. PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE RONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. TIFIED. DASK IGON DEEP SUMP WITH TOMMARY OUTLET CONNECTION. ATTER DAJ OUTLET ROF PSINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE TER DUAL OUTLET ROF PSINW TH PRINARY OUTLET CONNECTION. ATTER DUAL OUTLET ROF PSINW TH PRINARY OUTLET CONNECTION. ATTER DUAL OUTLET ROF SUMP WITH TOMINARY OUTLET CONNECTION.
ABOL A03.1 2, D01, 3 D06.1 3 D06.1 3 C06 7 4 2, D28 5, B35.1 3 C06 7 C14 3 C06 7 C14 3 C06 7 C14 3 C06 7 C14 3 C06 7 C14 3 C06 C14 C14 C14 C14 C14 C14 C14 C14 C14 C14	FIXTURE TYPE*	CW       H             1/2"       1         1"          1/2"       1         1/2"       1             1/2"       1             1/2"       1             1/2"       1             1/2"       1         1/2"       1             3/4"          3/4"       3         1/2"          1/2"          1/2"          1/2"          1/2"          1/2"          1/2"          1/2"          1/2"          1/2"          1/2"          1/2"          1/2"              1/2"                   <	EQUIPME ROUGH-IN CONNE MW WASTE INDIRECT I/2" 2" I/2" 101 I/2" 2" INDIRECT I/2" 101 INDIRECT I/2" 101 INDIRECT I/2" INDIRECT I/2	ENT PLUM ECTIONS VENT 1-1/2" 1-1/2" 1-1/2" 2" 1 1-1/2" 1 1 1 1 1 1 1 1-	ELEVATOR ABING SC GAS HEAT GAS HEAT 1 (2) 3/4" (2) - (2) 3/4" (2) - (2) 3/4" (2) - (2) - (2) 3/4" (2) - (2) - (2) - (2) 3/4" (2) - (2) - (2	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH EA CC F WATER MINIM	NCRETE FORMED KABLE LATCH, H-G IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTRON AT TO SHUT-DOW E, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 1NDIRECT DI 1NDIRECT DI 1NDIRECT DI 1NDIRECT DI 1NDIRECT DI 1NDIRE DLD WATER TO DIS UM, 140° F RECOM RECT DRAIN(S) TO 1NDIR 220,0 8 1NDIR	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. REMOTE A I PUMPS AT DETEC COMMENTS ZER DRAIN, INSULA 	CONTRO CUIT BREA RUN OPER IGH WATE IES/BRAC LARM TO TION OF ( IES/BRAC LARM	DL PANEL- AKER, ST/ RATION IN ER ALARM XET. FUR D BE LOCA OIL. CKET COO JPPRESSI AINS ROU ROUGH BU D NK(S) NK(S) NK(S)	SEE OIL DETEC RTERS, OVERI DICATION LIGH ACTIVATION, T NISH WITH OIL TED AT ADMINI ED AT ADMINI CON SYSTEM TED TO FLOOR 5 SH ATER TEMPER	TION BELC OAD RELA TS. IMER METION DETECTION STRATION.	NYS, ERS N -OOR SINK	SYMBOL         SYMBOL         FCO         CO         WCO         FD-1         FS-1         WHA-1         AP         WHY-1         AP         WHY-1         RPBP-1         RPBP-2         RD	FLOOR CLEAN (BUILDING, SE ARCH. 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//BOL         A03.1         2, D01,         9         D06.1         3         4         5         D15         7         7, B24,         7         4, D28         5, B35.1         3         C06         7         C14         3         C06         7         1         4         2	FIXTURE TYPE*	CW       H             1/2"       1         1"          1/2"       1 <tr td=""></tr>	EQUIPMEROUGH-IN CONNEHWWASTEINDIRECT1/2"11/2"11/2"11/2"3" MIN3" MIN3" MIN11/2"<	ECTIONS	ELEVATOR ABING SC GAS HEAT 1 (2) 3/4" (2) 7 1/2" (	R 30"x30"x24" CC NCLOSURE, LOC V FLOAT CIRCU ROVIDE WITH AL DR PUMPS, AUX STEM COMPLE ECHANICAL FLO HEDULE TAPE, INSULAT PROVIDE V 190,000 BTUH EA CC F WATER MINIM	PNCRETE FORMED KABLE LATCH, H-G IT, UL 508 RATED I ARM LIGHT AND F ALARM CONTACT TE WITH CONTRON AT TO SHUT-DOW E, & JACKET FREE VATTS LF009 BFP, ACH = 380,000 TOT 104,000 TOTAL GAS FOR B04 72,00 210,0 1NDIRECT DF INDIRECT DF	SUMP, CSI DUPLEX -A SWITCHES, CIRC ANEL, AND PUMP R DRN INDICATION, H AND FLOAT SWITH PANEL. 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MODEL	ELLANE         CW                     AS REQ'D         AS REQ'D         3'/4"         3'/4"         3''         3''            1	CONNEC         HW <td< td=""><td>PLUN TIONS WASTE DEE LANS 2" 3" OR 4"</td><td>VENT 2" 2"</td><td>2" FIXTU COMM C</td><td>2.415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO, 830-AA FAUCET AT 42" AFF, NO, 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO, 889-CA MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL. JRESCHEDULE WENTS 2.71-1400-X NH, RECESSED FOR TILE. 2.71-1400-CF NH FOR CARPET, WITH MARKER FOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS. WHERE C.O. BELOW FIXTURE CONNECTION IS DBY CODE AND WHERE SHOWN ON PLANS. PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH PROOF SCREWS. OP WITH VENTED P-TRAP. WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) IDY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET ARD (EXCEPT IN KITCHEN) R FIXTURE UNIT LOAD L INSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. 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			DOMESTIC WATER HEATER														PLUM	BING	FIXTI	JRE	SCHE	EDULE
ACTURER		MODEL	TANK	1ST HOUR	HOUR INPUT CW HW FLUE/INTAKE ELECTRICAL GAS T&P								SYMBO	OL FIXTURE TYPE	MANUF/MG		FIXTURE MOUNTING		CONN	ECTION	6	COMMENTS
EQUAL)			GALLONS	DELIVERY	/ BTUH	INLET	OUTLE	ET DIAMETER	VOLTS	PHASE	CONN	RELIEF			(OR EQUA AMERICAN STANDARD	,		CW	HW	WAST	E VENT 2" OR 4"	VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET
SMITH SMITH		TH-100 TH-150	75	166 GALLONS		1"	1"	4"/4"	120	1	3/4"	3/4"	P-1	WATER CLOSET	NO. 3451.001 "MADERA" AMERICAN STANDARD		0P OF RIM	1"		4	SEE DW	G. 1.28 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED). VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET
ALTERNATE 1														(ADA)	NO. 3461.001 "MADERA" AMERICAN STANDARD					+	SEE DW	VITREOUS CHINA, FLUSH VALVE, WALL HUNG, TOP SPUD, WASHOUT FLUSH ACTION,
			AGE TANK WITH AL IOMETER, GLASS-L										- P-2	URINAL	NO. 6950.005 "WASHBROO	)	OP OF RIM	3/4"		2"	1-1/2"	WHITE FINISH. SLOAN CROWN NO. 186-0.125, 0.125 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED). ZURN OR SMITH URINAL CARRIER SYSTEM.
EMBLY SHALL I	FACTORY AS I, AGA RATED	SEMBLED. HE ), LOW WATE	S, & PRE-PIPED WIT ATERS SHALL BE R CUTOFF, STAND	ARD									P-3	LAVATORY (ADA)	AMERICAN STANDARD NO. 0614.003 "STUDIO"	、 SEE	DERCOUNTER E ARCH. FOR JNTER HEIGHT	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 21.25"x15.25"x6.75", SELF-RIMMING, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F PER ASSE 1070.
ER: 4.0 AMPS E HEAT TRAPS			5 YEAR WARRANT STRAPS.	Υ.									P-4	LAVATORY (ADA)	AMERICAN STANDARD NO. 0321.075 "DECYLN"		LL MOUNTED TO RIM	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 20"x18", CONCEALED ARM, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F
		E	XPANSIO	N TANK	SCHEDU	JLE							]	LAVATORY	AMERICAN STANDARD NO. 0491.019	、 SEE	JNTERTOP ARCH. FOR	1/2"	1/2"	2"	1-1/2"	PER ASSE 1070. VITREOUS CHINA, 20"x17" OVAL, SELF-RIMMING, WHITE FINISH. ZURN Z-86500-XL-25M METERIN FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO
FACTURER	MODEL	DIMENSIC				OPER	. PRESS (	(PSIG) OPEF	. TEMP. (°F)	СОМ	MENTS			(ADA)	"RONDALYN"		JNTER HEIGHT	- 				#102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F PER ASSE 1070.
	ST-20V-C	DIA. 12"	HEIGHT (C	GAL) 8.0 VERT			MIN.	MAX. MIN. 125 <sup>-</sup>	MAX 180	K			P-6	DRINKING FOUNTAIN (ADA)	HAWS MODE NO. 1001MS	EL SEE	L MOUNTED ARCH. FOR JNTING HEIGH	1/2"		2"	1-1/2"	WALL MOUNTED BARRIER-FREE, 18 GAUGE TYPE 304 SATIN STAINLESS STEEL FINISH WITH BUBBLER HEAD, FRONT PUSH-BUTTON, GRID STRAINER, VANDAL RESISTANT BOTTOM PLATES AND ACCESS PANELS TO TRAP AND STOP. FURNISH WITH DF1 MOUNTING PLATE. PROVIDE WALL STOP & SUPPLY, AND P-TRAP.
IROL TERNATE 1	ST-12-C	12"	12-1/2"	4.0 IN-L			-	125 -	180		STRUCTED P CTION VII, DIV		P-7	SINGLE SINK (ADA)	ELKAY MODE LRAD2522	EL COU SEE HEI0	JNTERTOP ARCH. FOR GHT	1/2"	1/2"	2"	1-1/2"	25"x22"x6.5" DEEP, SINGLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 3 HOLES. LK35 DRAIN. FURNISH WITH MOEN MODEL NO. 8790 HIGH-ARC FAUCET WITH 1.0 GPM AERATOR. PROVIDE WITH LOOSE KEY STOPS & SUPPLIES, P-TRAP, AND TRUBRO #102 HANDI LAV-GUARD KIT (IF REQUIRED).
I	HO		ER CIRCU	LATION	PUMP S	CHEDI	JLE	. 1					] P-8	DOUBLE SINK (ADA)	ELKAY MODE LRAD250	EL COU SEE HEI0	JNTERTOP ARCH. FOR GHT	1/2"	1/2"	2"	1-1/2"	33"x22"x6.5" DEEP, DOUBLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 HOLES. LK35 DRAIN. FURNISH WITH MOEN MODEL NO. 8792 HIGH-ARC FAUCET WITH SIDE SPRAY AND 1.0 GPM AERATOR. PROVIDE WITH IN-SINK-ERATOR BADGER 5, 1/2 HP MOTOR, 8.0 AMPS, 120V-1 PH-60 HZ DISPOSAL. PROVIDE WITH CONTINUOUS WASTE, LOOSE KEY STOPS & SUPPLIES, P-TRAP, AND TRUBRO #102 HANDI LAV-GUARD KIT & #107 CONTINUOUS WASTE COVER (IF REQUIRED)
TURER JAL)	MODE	L GPM	HEAD (FT.) HP	MOTOR VOLTS P		COMMENTS																KIT & #107 CONTINUOUS WASTE COVER (IF REQUIRED)         POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. NON-ADA WITH 4" THRESHOLD,         AND CURTAIN ROD. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB VALVE
0	008	10	12 1/8	120	1 60 1			IONS, IN-LINE UNIT, AL E CLOCK AND AQUAST		ONSTRUCTIC	DN.		P-9	SHOWER	COMFORT DESIGN MOD XSS-3636 SH		NDARD	1/2"	1/2"	2"	1-1/2"	W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VAC. BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH. CURTAIN AND HOOKS FURNISHED BY OTHERS. PROVIDE WITH ZURN
	E	ELEVA	FOR DUPI	_EX SUN	/IP PUMP	S							]									Z-415 DRAIN WITH ROUND STRAINER. POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. ADA: BACK AND SIDE GRAB BARS, L-SHAPED FOLD-UP SEAT. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB
ODEL GPM	HEAD (FT.) H		CTRICAL S	SYSTEM (	COMMENTS								P-10	SHOWER (ADA)	COMFORT DESIGN MOD XST-6232-BF		NDARD	1/2"	1/2"	2"	1-1/2"	VALVE W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VAC. BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH. CURTAIN ROD AND CURTAIN WITH HOOKS BY OTHERS. PROVIDE WITH ZURN
-280 50	10 1,	/2 115	1 60 E		OR 30"x30"x24" CO ENCLOSURE, LOO	ONCRETE F	ORMED S CH, H-O-A	S DUPLEX UNIT. FURNI SUMP, CSI DUPLEX COI A SWITCHES, CIRCUIT NEL, AND PUMP RUN (	ITROL PANEL BREAKER, ST	L-SEE OIL DE TARTERS, O\	TECTION BE	LOW, NEC 1	P-11	MOP BASIN	FIAT MODEL TSBC6010	- FLOO	DR	1/2"	1/2"	3"	2"	Z-415 DRAIN WITH ROUND STRAINER. WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP
					PROVIDE WITH AI FOR PUMPS, AUX	LARM LIGHT	<sup>-</sup> AND HOF NTACT, A	RN INDICATION, HIGH AND FLOAT SWITHES/E PANEL. REMOTE ALARI	WATER ALARI RACKET. FUF	RM ACTIVATION RNISH WITH	ON, TIMER ME OIL DETECTI	ION										HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL.
								PUMPS AT DETECTION					]			MISC	ELLANE	EOUS	PLUN	1BIN	G FIX	TURE SCHEDULE
KITCH	HEN EC	QUIPME	ENT PLUM	IBING SO	CHEDULE	Ξ							SYMI	BOL FIXTURE T	YPE N	MODEL	CW		CTIONS WASTE	VENT		OMMENTS
	RO	UGH-IN CONN	ECTIONS				C	COMMENTS					FCC	D FLOOR CLEAN (BUILDING, SE ARCH. FOR FIL	E ZN-14	N NO. 400 NH			SEE PLANS			NO. ZN-1400-X NH, RECESSED FOR TILE. NO. ZN-1400-CF NH FOR CARPET, WITH MARKER
CW	HW	WASTE INDIRECT		GAS	AT TAPE, INSULA	TE, & JACKE	_	ER DRAIN, INSULATE 8	JACKET COC	OLER DRAIN	ROUTED TO	FLOOR SINK	со	CLEANOUT (OUTSIDE OR UNFINISHED /	ZURN AT Z-140 AREA) CAST	N NO. 00-HD NH T IRON TAP		:	SEE PLANS		BRON	ZE TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS.
1/2"	1/2"	2"	1-1/2"										wc		, 711DN	N NO.			SEE PLANS		REQU	LL WHERE C.O. BELOW FIXTURE CONNECTION IS IRED BY CODE AND WHERE SHOWN ON PLANS. ZE PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH
M 1"								LARM SWITCH TO HOC					FD-	1 FLOOR DRAIN	ZURN	N			2"	2"	ROUN	AL-PROOF SCREWS. D TOP WITH VENTED P-TRAP.
MER (4) 3/4" ET 1/2"	1/2"	INDIRECT		(2) 3/4" (2 1/2"	•			L GAS LOAD, INDIRECT			OOR SINK				W/TY	PE B						IDE WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN) BODY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET
		3" MIN.	2"					GREASE WASTE REQU					FS-		Z-190	00			3" OR 4"	2"	TRAP	GUARD (EXCEPT IN KITCHEN)
				3/4"			72,000	TOTAL GAS LOAD EAC	Н				- WH4	A-1 ARRESTOR	SHOK	N KTROL	AS REQ'D				SIZED	PER FIXTURE UNIT LOAD
/EN				3/4"			•	) BTUH TOTAL GAS LO						ACCESS PAN							SPRIN	VALL INSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC IG BOLT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER STOR IN WALL.
1/2"           6         1/2"	1/2"	INDIRECT						INS ROUTED TO FLOO	. ,				WHY	-1 WALL HYDRAI	NT ZURN STANT NO. Z	N Z-1310	3/4"				NON-I	FREEZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, OOSE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT.
TER 3/4"		INDIRECT					INDIREC	T DRAINS TO FLOOR S	INK				]          PRV-	PRESSURE			3"					75 PSI SPRING, 110 GPM AT 15 PSI PRESSURE DROP, SET TO
E SH (2) 1/2"		INDIRECT	1-1/2"					CT DRAIN TO FLOOR S						REDUCING VA								ER 55 PSI TO BUILDING. PROVIDE WITH STRAINER AT INLET.
SH (2) 1/2" 	1/2"	INDIRECT		110				ENDED, BOOSTER HE			PERING WITH	H UNIT		-1 BACKFLOW PREVENTER	880V	CO VERTICAL	3"				SEATS USC C	S. BRONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. CERTIFIED. DOMESTIC WATER SERVICE.
/ASH 3/4"	3/4"	INDIRECT			IND		IN(S) TO F	FLOOR SINK (GREASE	WASTE REQU	JIRED)			RPBP-	-2 REDUCED PRI BACKFLOW PREVENTER	FEBC	CO VERTICAL	6"				SEAT	CED PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE S. BRONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. CERTIFIED. FIRE PROTECTION WATER SERVICE.
1/2"		INDIRECT						CT DRAIN TO FLOOR S					RD	ROOF DRAIN	ZURN NO. Z	N Z-100			SEE PLANS		15" DI DURA	AMETER DUAL OUTLET ROOF DRAIN WITH PRIMARY OUTLET CONNECTION. -COATED CAST IRON DEEP SUMP WITH COMBINATION MEMBRANE FLASHING CLAMP/ EL GUARD, AND LOW SILHOUTTE CAST IRON DOME.
GE				3/4"			•	000 TOTAL GAS LOAD						OVERFLOW ROOF DRAIN	ZURN NO. Z	N Z-100-W2			SEE PLANS		15" DI DURA	AMETER DUAL OUTLET ROOF DRAIN WITH PRIMARY OUTLET CONNECTION. -COATED CAST IRON DEEP SUMP WITH COMBINATION MEMBRANE FLASHING CLAMP/
ER 1/2"															ZURI	N			SEE			EL GUARD, 2" HIGH INTERNAL WATER DAM, AND LOW SILHOUTTE CAST IRON DOME.
ER 1/2" R 1/4"		INDIRECT						OT DRAIN TO FLOOR S					GI-1	GREASE	SCHI	Z199-SS IER MODEL GB-250			PLANS 4"		100 G	PM FLOW RATE, 1060 LBS. MAXIMUM CAPACITY, SEAMLESS MOLDED POLYETHYLENE TANK WITH
R 1/2"								ICH 1/4" WATER TO D4						THERMOSTAT		FFIC					INTEC	GRAL AIR RELIEF/ANTI-SIPHON/VISUAL INSPECTION. PROVIDE RISERS AS REQUIRED. TRAFFIC RAT
D06)				3/4"				) BTUH TOTAL GAS LOA BTUH TOTAL GAS LOA						-1 MIXING VALVE		86-8015-	1"	1"			1-1/4"	OUTLET, HIGH-LOW MANIFOLD FACTORY PREASSEMBLED/TESTED
- /													]									

				DOMES	STIC WAT	ER HE	ATER											PLUM	BING	FIXT	URE	SCHE	DULE
SYN	MANUFACTURER	M	NODEL	TANK CAPACITY	. 1ST HOUR			W HW	FLUE/INTAKE	ELEC	TRICAL	GAS	T&P	SYMBC	L FIXTURE TY	PE MAN	NUF/MODEL	FIXTURE MOUNTING		CONN	NECTION	S	COMMENTS
	(OR EQUAL)			GALLONS	DELIVERY	<sup>r</sup> BTUH	H INL	ET OUTLET	DIAMETER	VOLTS	PHASE	CONN	RELIEF	_		AMERI	R EQUAL)	HEIGHT	CW	HW	WAST		VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET
WH WH	H-2 A.O. SMITH	BT	ГН-100	75	166 GALLON	S 100,000	00 1"	1"	4"/4"	120	1	3/4"	3/4"	P-1	WATER CLOS	MO. 34 "MADE AMERI	51.001 ERA" ICAN	15" TOP OF RIM	1"		4"	2" OR 4" SEE DWG	ACTION, WHITE FINISH. OLSONITE NO. 95 OPEN FRONT SEAT, SLOAN CROWN NO. 111-1.28, 1.28 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED). VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED BOWL, SIPHON JET ACTION, WHITE FINISH. OLSONITE NO. 95 OPEN FRONT SEAT, SLOAN CROWN NO. 111-1.28,
WH	FOR BID ALTERNATE		ГН-150	100	297 GALLON	S 150,000	00 1-1/	/2"   1-1/2"	4"/4"	120	1	1"	1"	P-1A	WATER CLOS (ADA)	SET STAND NO. 34 "MADE AMERI	61.001 RA"	16-1/2" TOP OF RIM	1"		4"	2" OR 4" SEE DWG	1.28 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED).
FURN	IMENTS NISH COMPLETE PACKAGED WATE TROLS, ASME RELIEF VALVE, HEAT													P-2	URINAL	STAND NO. 69	DARD 50.005 IBROOK"	24" TOP OF RIM	3/4"		2"	1-1/2"	VITREOUS CHINA, FLUSH VALVE, WALL HUNG, TOP SPUD, WASHOUT FLUSH ACTION, WHITE FINISH. SLOAN CROWN NO. 186-0.125, 0.125 GPF HIGH EFF. WATER SAVER FLUSH VALVE (PISTON ACTIVATED). ZURN OR SMITH URINAL CARRIER SYSTEM.
STEE FITTIN SET F	EL TANK CONSTRUCTION, INLET AN INGS. COMPLETE ASSEMBLY SHALL FOR OPERATION AT SITE ELEVATION IPMENT, STANDARD CONTROLS-12	ND OUTLET THE L FACTORY ASS DN, AGA RATED	RMOMETERS, SEMBLED. HEA , LOW WATER	& PRE-PIPED \ TERS SHALL B CUTOFF, STAN	WITH BE NDARD									P-3	LAVATORY (ADA)	AMERI STAND NO. 06 "STUD	DARD 514.003	UNDERCOUNTER SEE ARCH. FOR COUNTER HEIGHT	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 21.25"x15.25"x6.75", SELF-RIMMING, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F PER ASSE 1070.
BLOW	WER: 2.2 AMPS, IGNITER: 4.0 AMPS TRACTOR TO PROVIDE HEAT TRAP													P-4	LAVATORY (ADA)	AMERI STAND NO. 03 "DECY	DARD 21.075	WALL MOUNTED 34" TO RIM	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 20"x18", CONCEALED ARM, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F PER ASSE 1070.
		I I	E	XPANSI	ON TANK	SCHE	DULE							P-5	LAVATORY (ADA)	AMERI STAND NO. 04	DARD 91.019	COUNTERTOP SEE ARCH. FOR COUNTER HEIGHT	1/2"	1/2"	2"	1-1/2"	VITREOUS CHINA, 20"x17" OVAL, SELF-RIMMING, WHITE FINISH. ZURN Z-86500-XL-25M METERING FAUCET WITH ADA PUSH-BUTTON HANDLES AND 0.35 GPM VP AERATOR. PROVIDE WITH LOOSE KEY STOPS AND SUPPLIES, 1-1/4" P-TRAP, GRID STRAINER, TRUEBRO #102 LAV-GUARD KIT, & WATTS MMV THERMOSTATIC MIXING VALVE SET AT 105°F
SYME	IBOL MANUFACTURER (OR EQUAL)	MODEL -	DIMENSION DIA.	S (IN) HEIGHT	TANK VOLUME (GAL)	NTING T	TYPE	OPER. PRESS (PS	MAX. MIN	R. TEMP. (°F)		MENTS		P-6	DRINKING	"ROND	MODEL	WALL MOUNTED SEE ARCH. FOR	1/2"		2"	1-1/2"	WALL MOUNTED BARRIER-FREE, 18 GAUGE TYPE 304 SATIN STAINLESS STEEL FINISH WITH BUBBLER HEAD, FRONT PUSH-BUTTON, GRID STRAINER, VANDAL
EXP	P-1 AMTROL	ST-20V-C	12"	19-1/2"	8.0 VERT	ICAL BL	LADDER	-	125 -	180	CONS	STRUCTED F	PER ASME		FOUNTAIN (A	ADA) NO. 10	001MS	MOUNTING HEIGHT	TS		2	1-1/2	RESISTANT BOTTOM PLATES AND ACCESS PANELS TO TRAP AND STOP. FURNISH WITH DF1 MOUNTING PLATE. PROVIDE WALL STOP & SUPPLY, AND P-TRAP.
EXP	P-2 AMTROL FOR BID ALTERNATE 1	ST-12-C	12"	12-1/2"	4.0 IN-L	INE BL	LADDER	-	125 -	180		CTION VII, DI	V.1	P-7	SINGLE SINK (ADA)	ELKAY	( MODEL 2522	COUNTERTOP SEE ARCH. FOR HEIGHT	1/2"	1/2"	2"	1-1/2"	25"x22"x6.5" DEEP, SINGLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 3 HOLES. LK35 DRAIN. FURNISH WITH MOEN MODEL NO. 8790 HIGH-ARC FAUCET WITH 1.0 GPM AERATOR. PROVIDE WITH LOOSE KEY STOPS & SUPPLIES, P-TRAP, AND TRUBRO #102 HANDI LAV-GUARD KIT (IF REQUIRED).
		НОТ	Γ WATE		ULATION MOTOF		SCHE	EDULE						P-8	DOUBLE SINI (ADA)	K ELKAY LRAD2	Y MODEL 250	COUNTERTOP SEE ARCH. FOR HEIGHT	1/2"	1/2"	2"	1-1/2"	33"x22"x6.5" DEEP, DOUBLE BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 HOLES. LK35 DRAIN. FURNISH WITH MOEN MODEL NO. 8792 HIGH-ARC FAUCET WITH SIDE SPRAY AND 1.0 GPM AERATOR. PROVIDE WITH IN-SINK-ERATOR BADGER 5, 1/2 HP MOTOR, 8.0 AMPS, 120V-1 PH-60 HZ DISPOSAL. PROVIDE WITH CONTINUOUS WASTE, LOOSE KEY STOPS & SUPPLIES, P-TRAP, AND TRUBRO #102 HANDI LAV-GUARD KIT & #107 CONTINUOUS WASTE COVER (IF REQUIRED)
	(OR EQUAL)	008	- GPM 10	HEAD (FT.) H 12 1/	P VOLTS P	HASE HZ			NS, IN-LINE UNIT, AI LOCK AND AQUAS <sup>-</sup>		ONSTRUCTIC	DN.		P-9	SHOWER		ORT IN MODEL 636 SH 4.0	STANDARD	1/2"	1/2"	2"	1-1/2"	POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. NON-ADA WITH 4" THRESHOLD, AND CURTAIN ROD. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB VALVE W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VAC. BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH. CURTAIN AND HOOKS FURNISHED BY OTHERS. PROVIDE WITH ZURN
		E	ELEVAT				MPS							_									Z-415 DRAIN WITH ROUND STRAINER.         POLYESTER GELCOATED SURFACE WITH CENTER DRAIN. ADA: BACK AND SIDE GRAB
/BOL MA	ANUFACTURER MODEL GP	HEAD		TRICAL	SYSTEM	COMMENTS								P-10	SHOWER (A	, I	ORT IN MODEL 232-BF-5P	STANDARD	1/2"	1/2"	2"	1-1/2"	BARS, L-SHAPED FOLD-UP SEAT. PROVIDE WITH AMERICAN STANDARD NO. 1662.211 PB VALVE W/ STOPS, VALVE TRIM W/ LEVER HANDLE, 1.5 GPM HANDHELD SHOWERHEAD WITH FLEXIBLE 60" METAL HOSE, WALL CONNECTION WITH FLANGE, VAC. BREAKER, 36" SLIDE BAR-POLISHED CHROME FINISH. CURTAIN ROD AND CURTAIN WITH HOOKS BY OTHERS. PROVIDE WITH ZURN Z-415 DRAIN WITH ROUND STRAINER.
1 1A	LIBERTY ELV-280 50	0 10 1/2	2 115	1 60	ELEVATOR	OR 30"x30"x2 ENCLOSURE 20V FLOAT C PROVIDE WIT	24" CONCRE E, LOCKABLI CIRCUIT, UL ITH ALARM I	ETE FORMED SUN E LATCH, H-O-A S 508 RATED PANE LIGHT AND HORN	UPLEX UNIT. FURN IP, CSI DUPLEX CO WITCHES, CIRCUIT EL, AND PUMP RUN INDICATION, HIGH D FLOAT SWITHES/	NTROL PANE BREAKER, S OPERATION WATER ALAF	EL-SEE OIL DE STARTERS, OV INDICATION L RM ACTIVATIO	ETECTION BE VERLOAD RE LIGHTS. DN, TIMER M	ELOW, NEC 1 ELAYS, ETERS	P-11	MOP BASIN	FIAT M TSBC6	10DEL 6010	FLOOR	1/2"	1/2"	3"	2"	WITH 1453-BB STRAINER, NO. 830-AA FAUCET AT 42" AFF, NO. 832-AA HOSE AND HOSE BRACKET, STAINLESS STEEL CAP, NO. 889-CC MOP HANGER, AND SEALED AROUND WITH NO. 833-AA SILICONE SEAL.
						SYSTEM CON	MPLETE WI	TH CONTROL PAR	NEL. REMOTE ALAR	RM TO BE LOC							MI	ISCELLANE			/IBIN	G FIXT	URE SCHEDULE
	KITC	HEN EG	QUIPME	NT PLU	MBING S	CHEDL	JLE							SYME		RE TYPE	MODEL	L CW	CONNEC	WASTE	VENT		MMENTS
SYMBOL	FIXTURE TYPE*	ROL	JGH-IN CONNE	CTIONS				CO	MMENTS					FCC	FLOOR CL (BUILDING ARCH. FO	G, SEE	ZURN NO. ZN-1400 NH	н	S	EE LANS			IO. ZN-1400-X NH, RECESSED FOR TILE. IO. ZN-1400-CF NH FOR CARPET, WITH MARKER
2.1, A03.1	WALK-IN EVAP. COIL	HW	WASTE	VENT	GAS	AT TAPE INS			DRAIN. INSULATE					со		E OR AT	ZURN NO. Z-1400-HD I CAST IRON	NH	S	EE LANS		BRONZE	E TOP IN OUTSIDE AREAS, CAST IRON TOP, VANDAL PROOF SCREWS.
C02, D01, D39	HAND SINKS 1/2"	1/2"	2"	1-1/2"			,	-								,	ZURN NO. Z-1468 ZS		S	EE LANS		REQUIF   BRONZ	L WHERE C.O. BELOW FIXTURE CONNECTION IS RED BY CODE AND WHERE SHOWN ON PLANS. E PLUG WITH STAINLESS STEEL FACE WALL PLATE, WITH L-PROOF SCREWS.
2.1, D06.1 B03	FIRE SUPP. SYSTEM1"COMBIN. OVEN/STEAMER(4) 3/4	 t"	INDIRECT		(2) 3/4" (2)				RM SWITCH TO HOO AS LOAD, INDIREC					FD-1	FLOOR D	RAIN	ZURN ZN-415 W/TYPE B			2"	2"	ROUND	TOP WITH VENTED P-TRAP. DE WITH PROSET TRAP GUARD. (EXCEPT IN KITCHEN)
B04	30 GAL TILT SKILLET 1/2"	1/2"			1/2"		104,00	0 TOTAL GAS LO	AD, DUMPS TO FLO	OR TROUGH	B05			FS-1	FLOOR S	INK	ZURN NO. Z-1900			3" OR 4"	2"		BODY (12"X12"X8") TOP GRATE, 8" DEEP SUMP, WITH PROSET GUARD (EXCEPT IN KITCHEN)
B05	FLOOR TROUGH		3" MIN.	2"										- WHA	.1 WATER H	IAMMER DR	ZURN SHOKTROL	AS REQ'D				SIZED F	PER FIXTURE UNIT LOAD
06, D15 B07 , B17, B24,	GRIDDLE RANGE 6 BURNER RANGE/OVEN				3/4" 3/4"			210,000 B	TAL GAS LOAD EA	DAD				AP	ACCESS	PANEL	ELMDOR SLK 8"x8"					SPRING	ALL INSTALLATION, 14 GA MILD STEEL WITH PRIME COAT FINISH. PROVIDE AUTOMATIC B BOLT TYPE LOCK AND KEY. INSTALL DOOR DIRECTLY IN FRONT OF WATER HAMMER TOR IN WALL.
D37 D24, D28	TABLE AND SINK     1/2"       HOT FOOD WELLS     1/2"		INDIRECT INDIRECT						S ROUTED TO FLOO					WHY-	1 WALL HYI FREEZE F	DRANT RESISTANT	ZURN NO. Z-1310	3/4"				NON-FF	REEZE, ANTI-SIPHON, AND AUTOMATIC DRAINING, WITH P.B. BOX, DOSE KEY. SEE ARCH. PLAN FOR WALL THICKNESS. 18" MOUNTING HEIGHT.
	ICE BIN, MAKER, FILTER 3/4"													PRV-1	PRESSUR REDUCIN	RE G VALVE	FEBCO 500YSBR	3"					5 PSI SPRING, 110 GPM AT 15 PSI PRESSURE DROP, SET TO R 55 PSI TO BUILDING. PROVIDE WITH STRAINER AT INLET.
C03 05, C06	SOILED DISH TABLEDISPOSER, PRE-WASH(2) 1/2	2" 1/2"	INDIRECT	 1-1/2"			COLD W		DRAIN TO FLOOR S		WASH						FEBCO	2"				REDUC	ED PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE BRONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI.
C07	DISH MACHINE	1/2"	INDIRECT		11	0°F WATER M	MINIMUM, 14	40° F RECOMMEN	DED, BOOSTER HE	ATER, DRAIN	WATER TEM	PERING WIT	H UNIT	RPBP-	PREVENT	TER D PRESSURE	880V VERT					USC CE REDUC	ERTIFIED. DOMESTIC WATER SERVICE. ED PRESSURE PRINCIPLE BACKFLOW PREVENTER, Y STRAINER AND REPLACABLE
13, C14	3-COMP. SINK, PRE-WASH 3/4"						INDIRECT	(	OOR SINK (GREASE		UIRED)			RPBP-:	2 BACKFLO PREVENT		880V VERT	FICAL				USC CE	BRONZE BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE OF 175 PSI. RTIFIED. FIRE PROTECTION WATER SERVICE.
D05 D11	SODA SYSTEM     1/2"       FRYER SYSTEM		INDIRECT		3/4"				DRAIN TO FLOOR S 					- RD	ROOF DF	RAIN	ZURN NO. Z-100		S	SEE PLANS		DURA-0	METER DUAL OUTLET ROOF DRAIN WITH PRIMARY OUTLET CONNECTION. COATED CAST IRON DEEP SUMP WITH COMBINATION MEMBRANE FLASHING CLAMP/ L GUARD, AND LOW SILHOUTTE CAST IRON DOME.
D14	CHARBROILER RANGE				3/4"			80,000	TOTAL GAS LOAD					ORD	OVERFLC			N/2	5	SEE		DURA-0	METER DUAL OUTLET ROOF DRAIN WITH PRIMARY OUTLET CONNECTION. COATED CAST IRON DEEP SUMP WITH COMBINATION MEMBRANE FLASHING CLAMP/
D42	SODA/ ICE DISPENSER 1/2"		INDIRECT						DRAIN TO FLOOR S								NO. Z-100-V			PLANS			L GUARD, 2" HIGH INTERNAL WATER DAM, AND LOW SILHOUTTE CAST IRON DOME.
43, D43.1 D45	ICE MACHINE/FILTER 1/2"		INDIRECT						DRAIN TO FLOOR S					DSN			ZURN NO. Z199-S		Ì	SEE PLANS			BRONZE BODY, THREADED INLET AND DECORATIVE FACE WALL FLANGE AND NOZZLE, SCREEN
D47	COFFEE BREWER 1/2"							BRANCH	I 1/4" WATER TO D4	15				GI-1	GREASE	PTOR	SCHIER MC NO. GB-250 TRAFFIC	0		4"	2"	BUILT-I	M FLOW RATE, 1060 LBS. MAXIMUM CAPACITY, SEAMLESS MOLDED POLYETHYLENE TANK WITH IN FLOW CONTROL, INLET AND OUTLET DIFFUSERS REMOVABLE FOR INSPECTING AND CLEANING RAL AIR RELIEF/ANTI-SIPHON/VISUAL INSPECTION. PROVIDE RISERS AS REQUIRED. TRAFFIC RATE
1UA-B02	MAKE-UP AIR UNIT (B02)				3/4"				TUH TOTAL GAS LO					TMV-	I THERMOS MIXING V	'AI VE	LEONARD N TM-186-801 PRV-RO-0	15-   1"	1"			1-1/4" O	UTLET, HIGH-LOW MANIFOLD FACTORY PREASSEMBLED/TESTED
JA-D06	MAKE-UP AIR UNIT (D06)				3/4"			176,200 B	TUH TOTAL GAS LO						I			I	I			I	

\*KITCHEN EQUIPMENT FURNISHED BY OTHERS, ROUGH-INS AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR-COORDINATE WITH FOOD SERVICE DRAWINGS FOR SIZES & LOCATIONS

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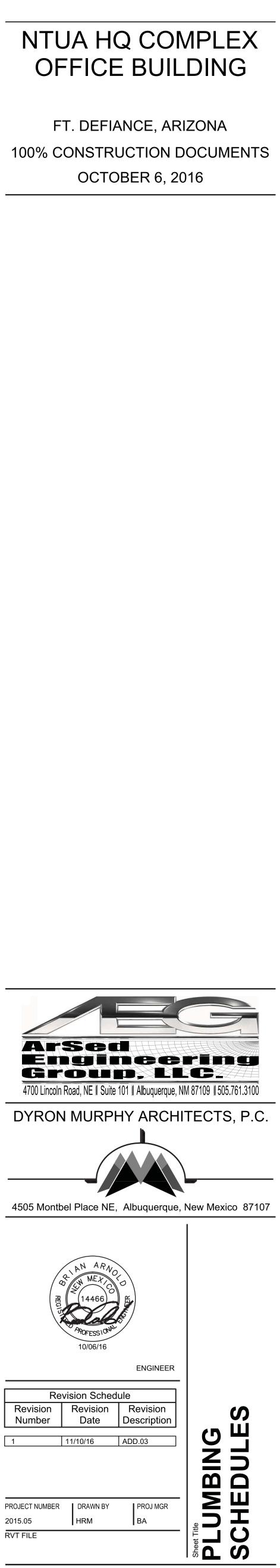
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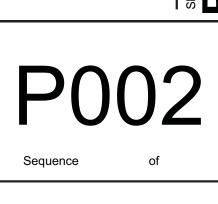


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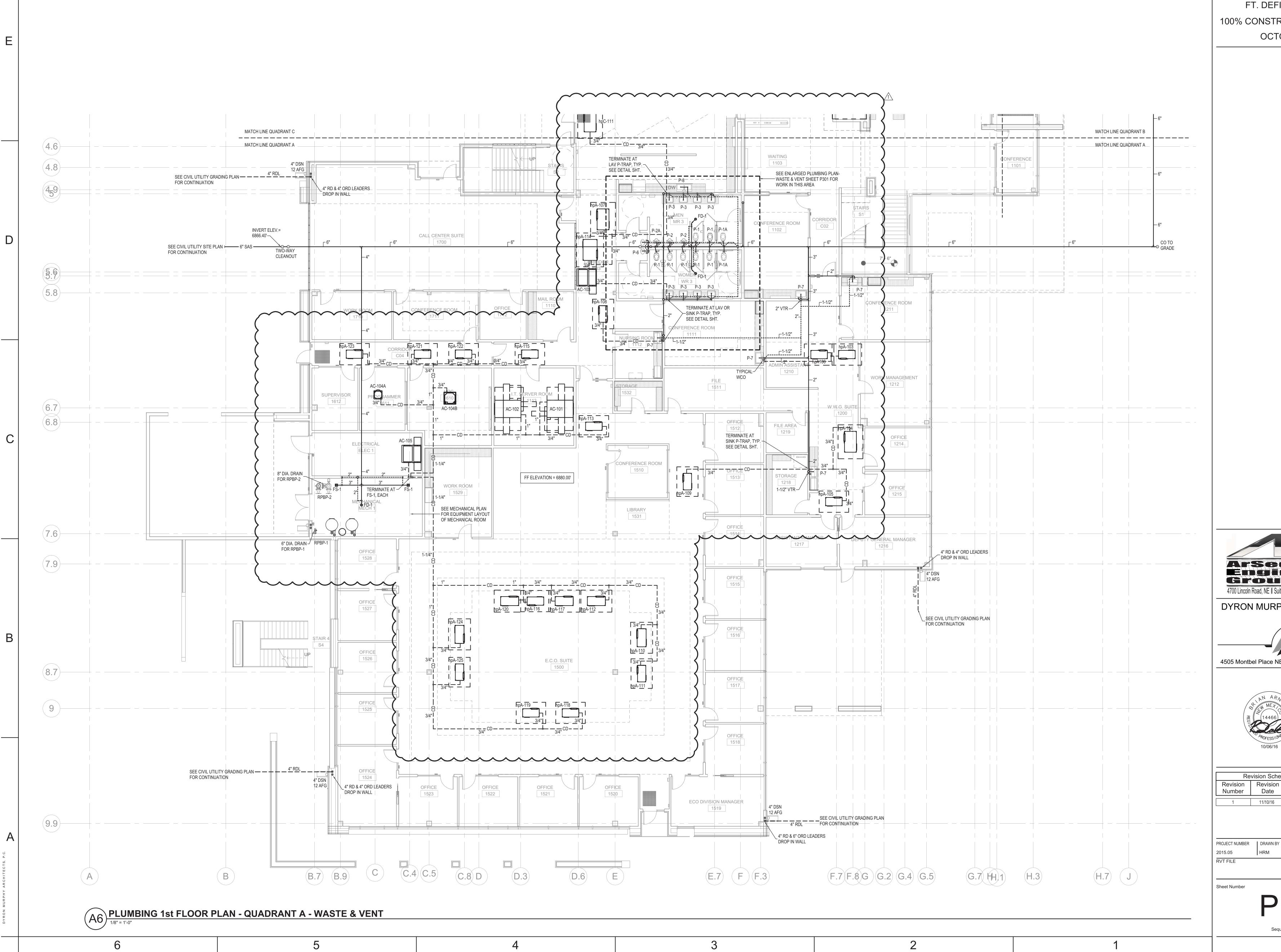
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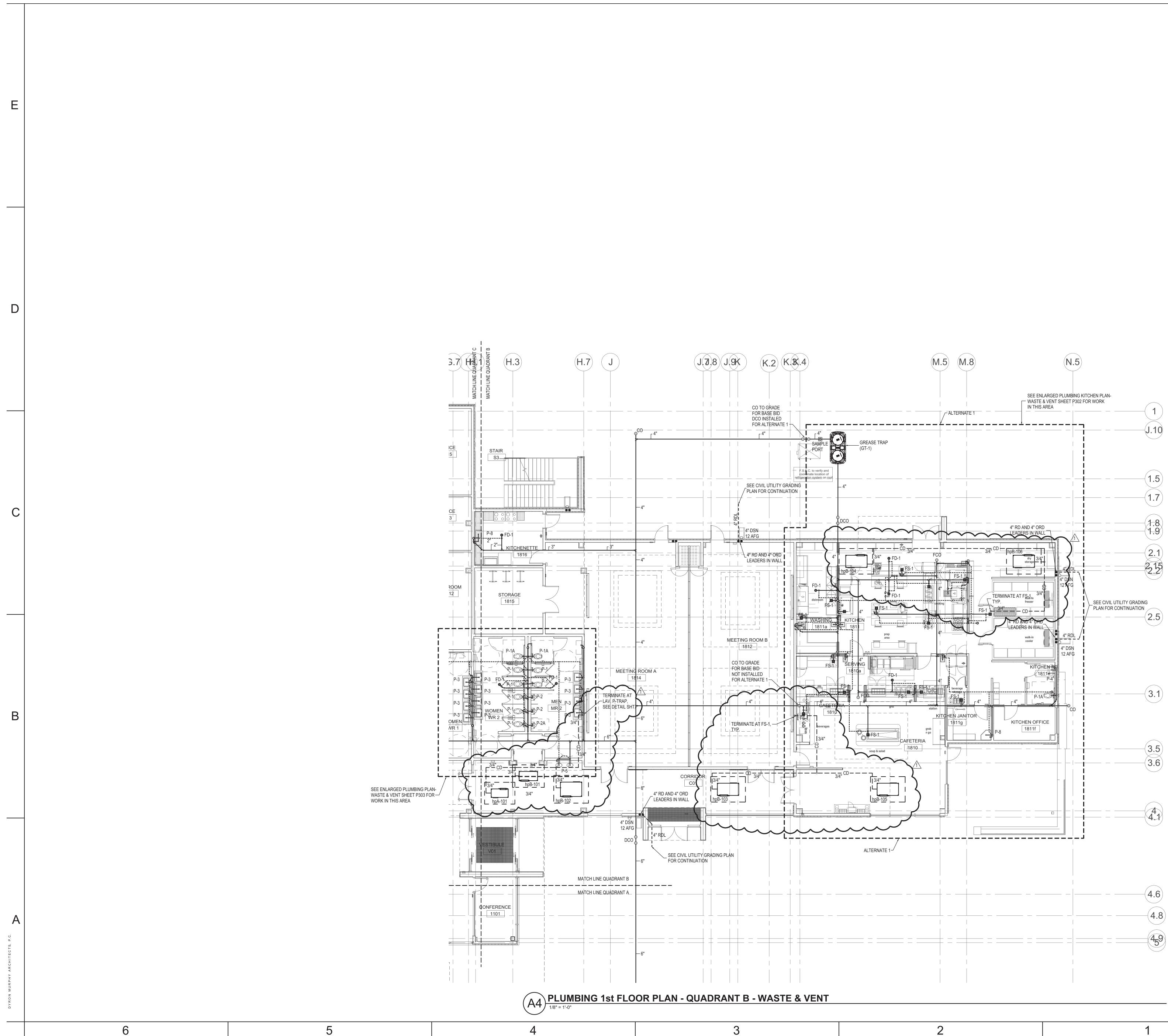




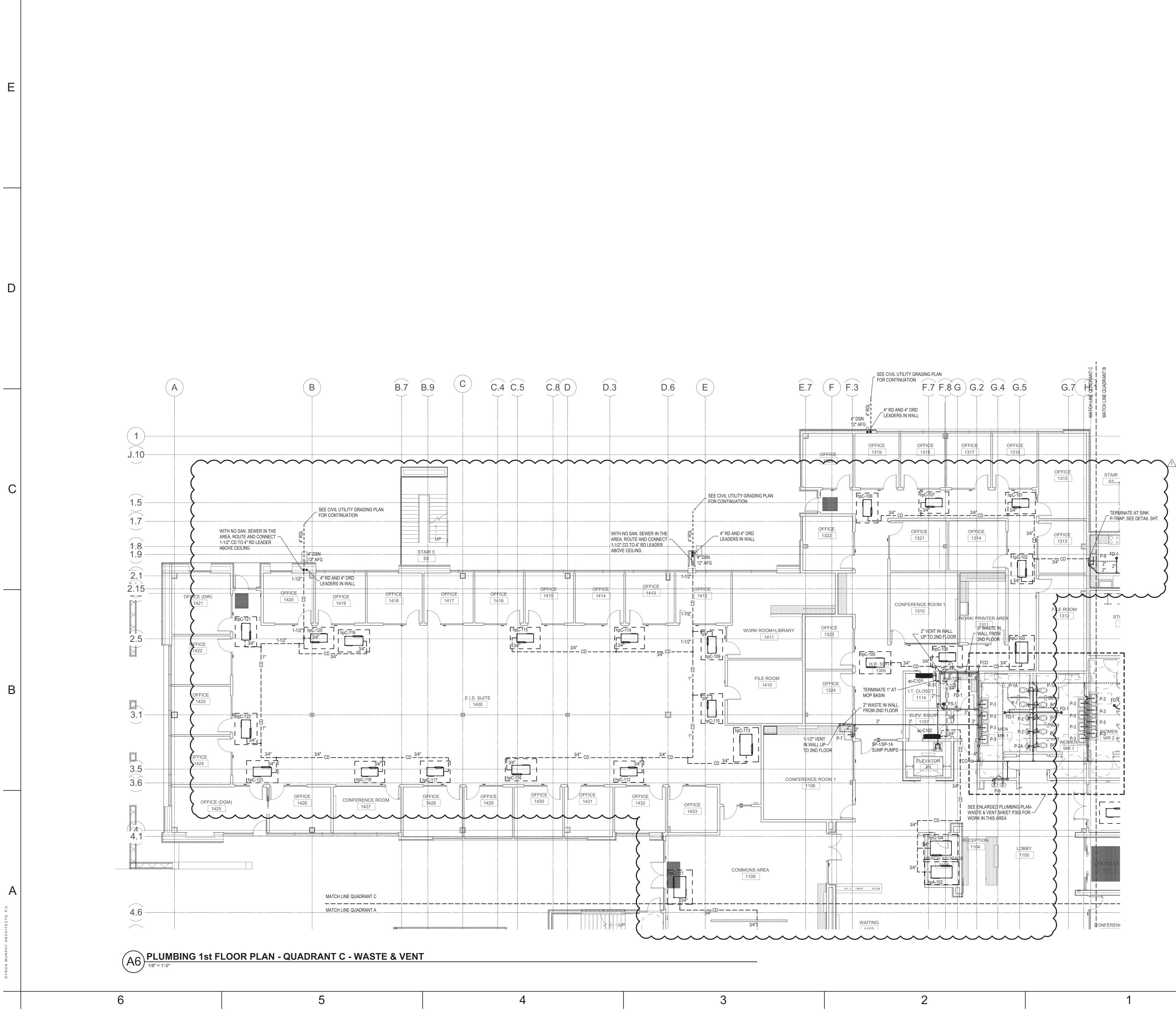
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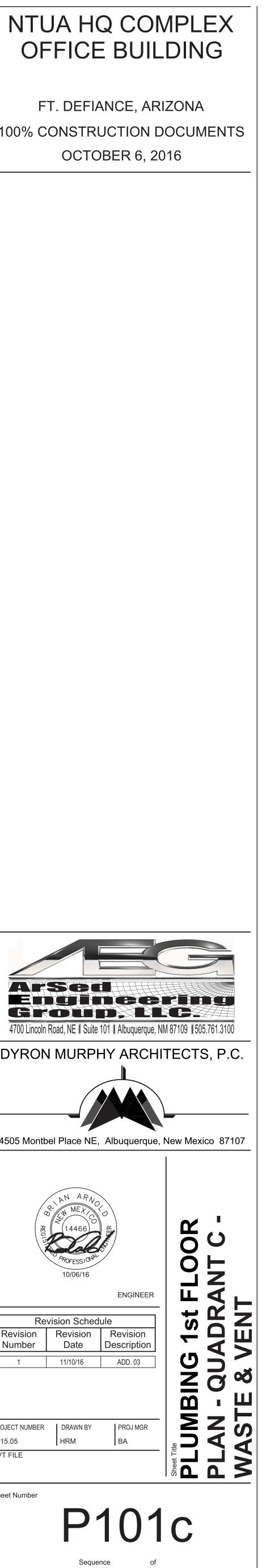


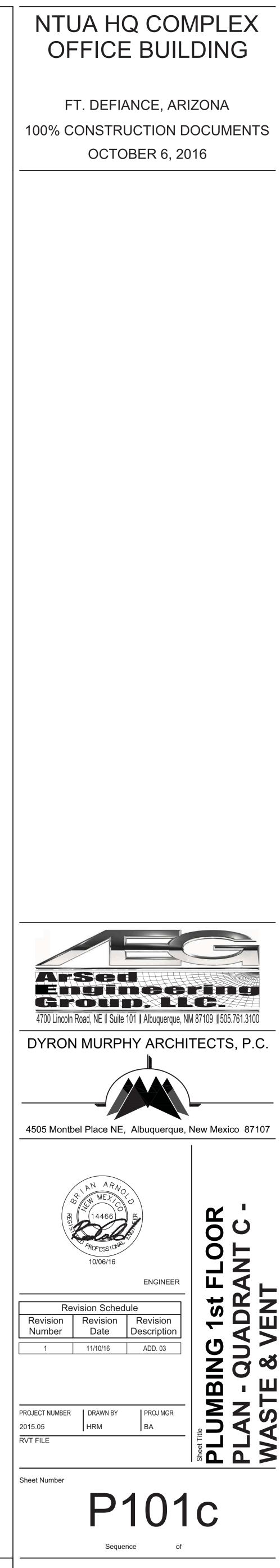


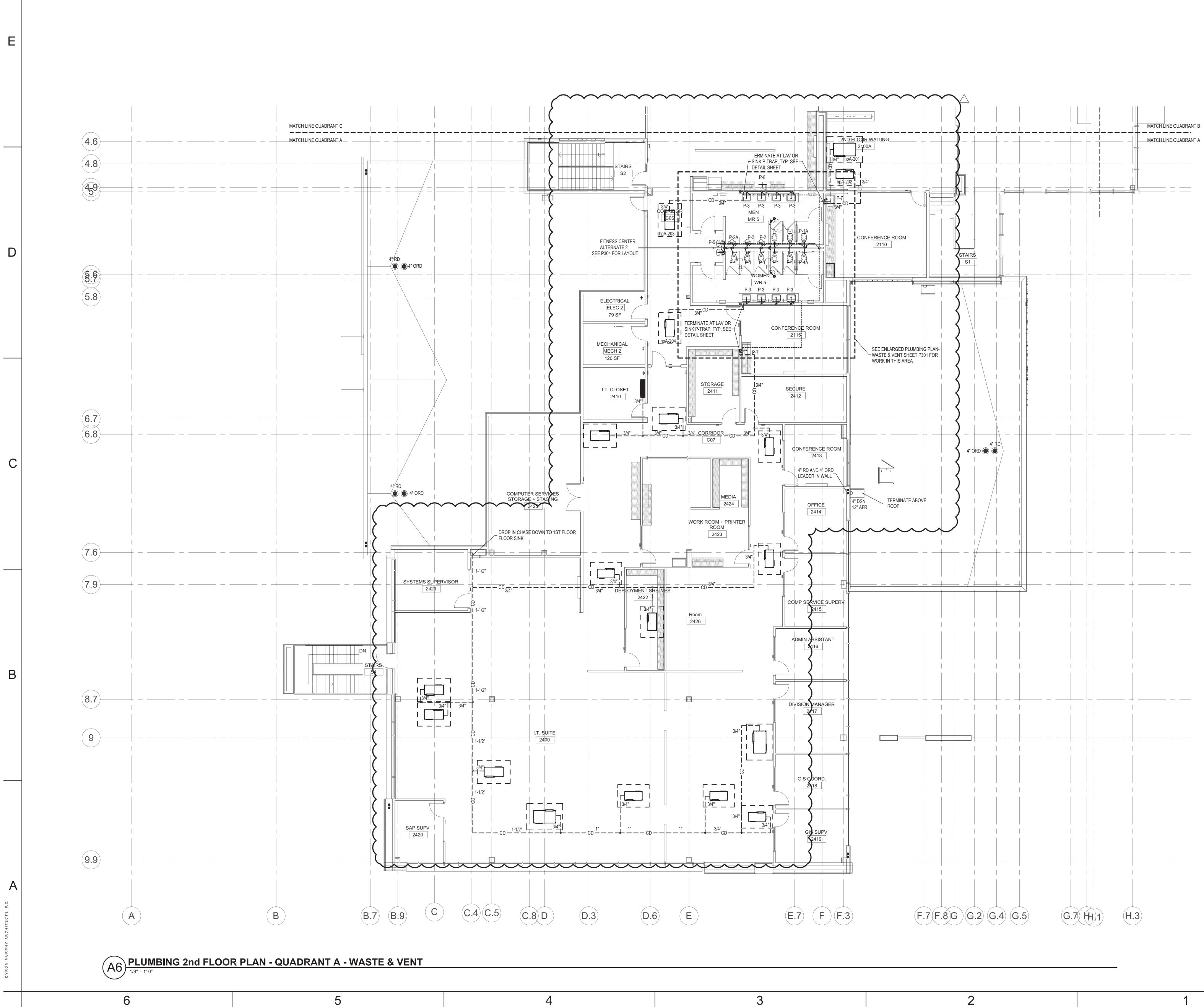


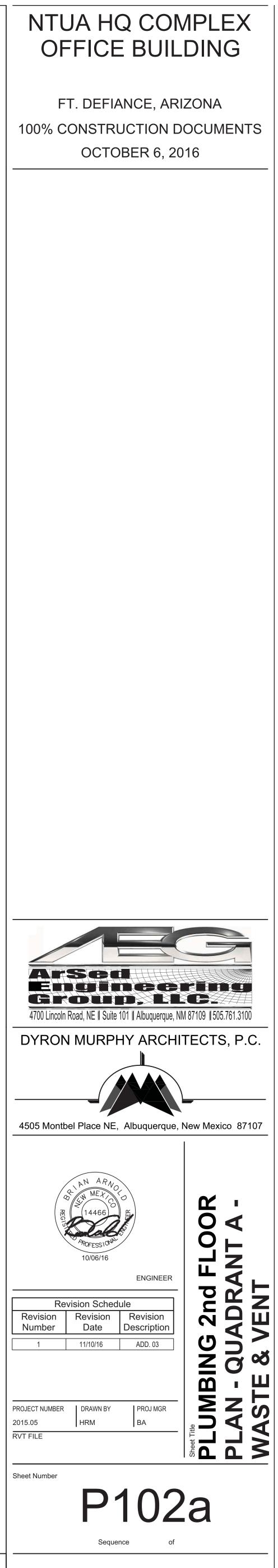


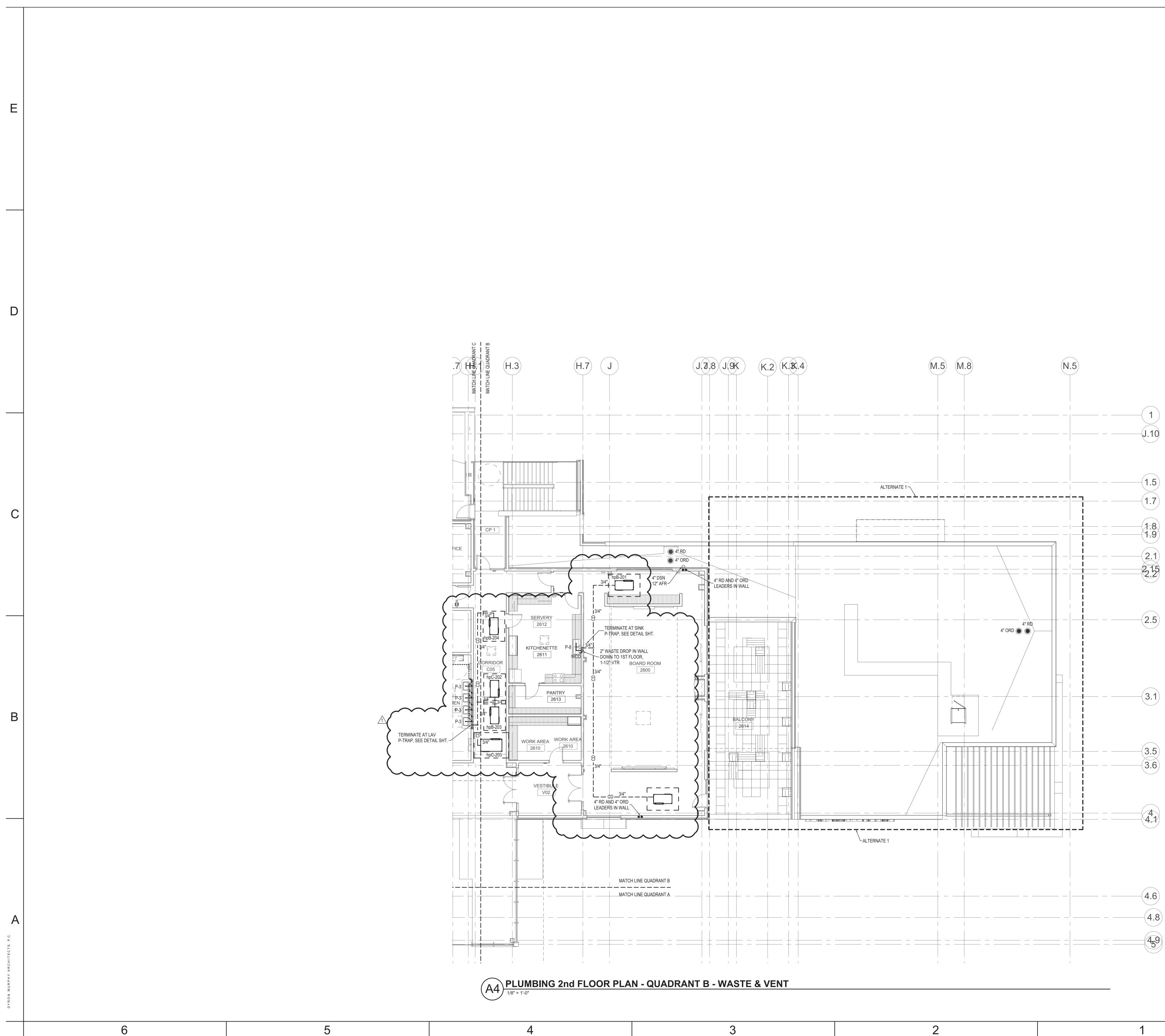
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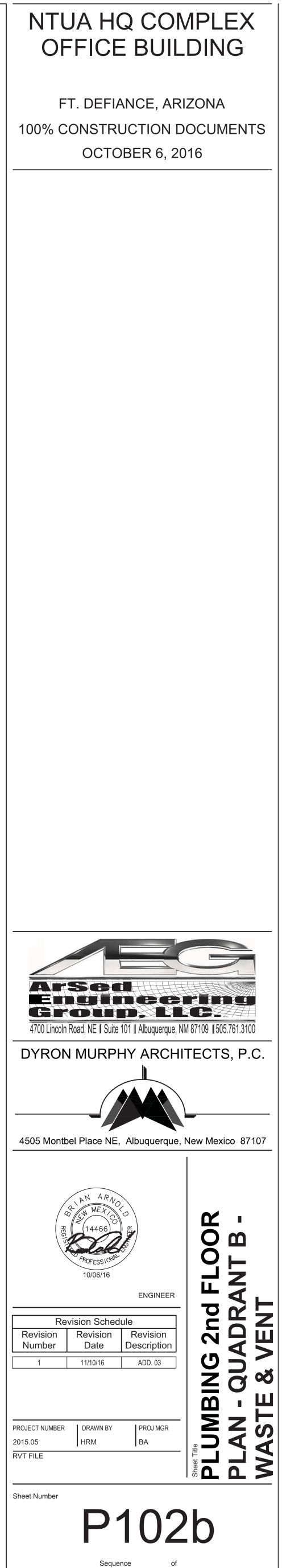


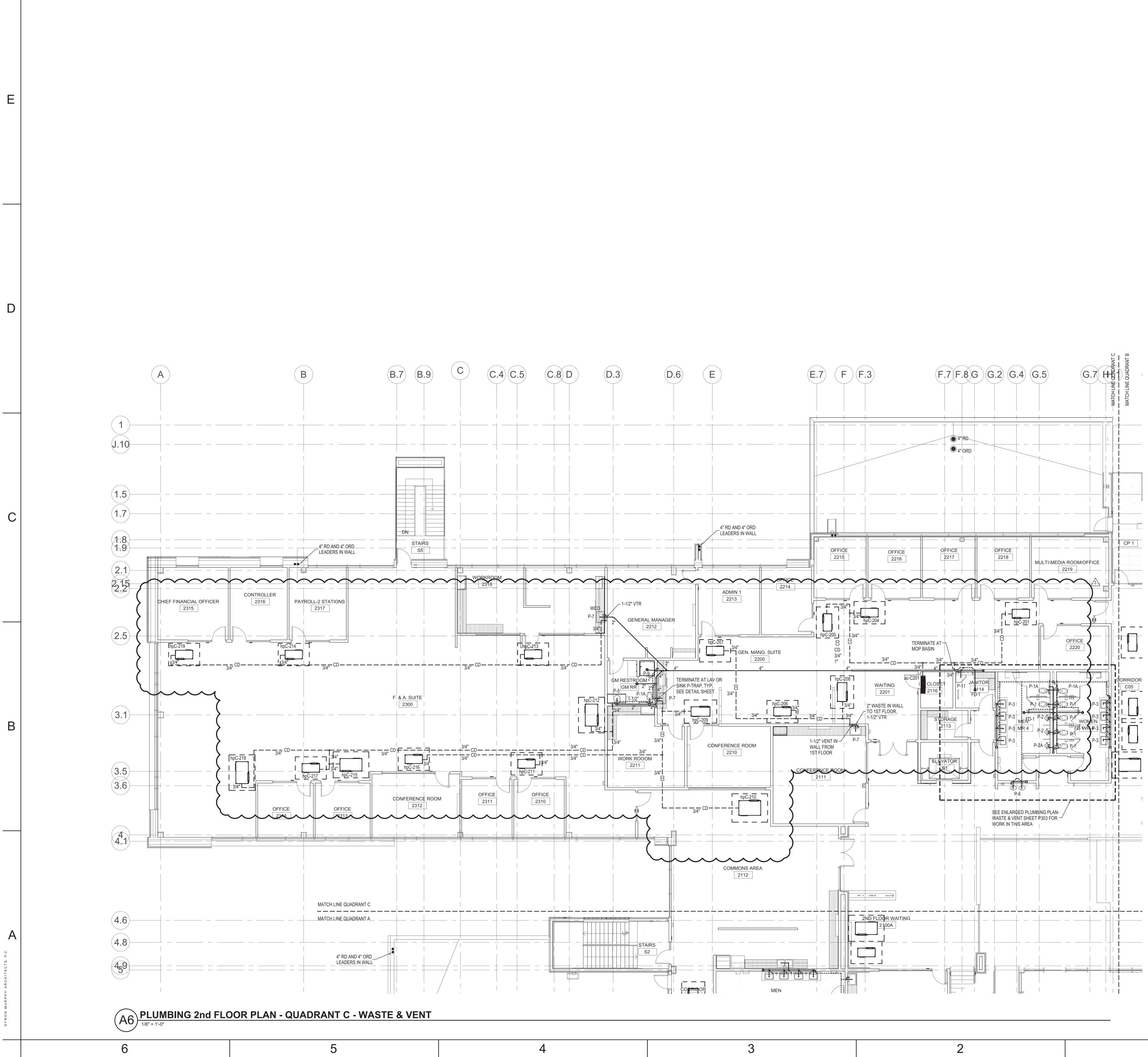




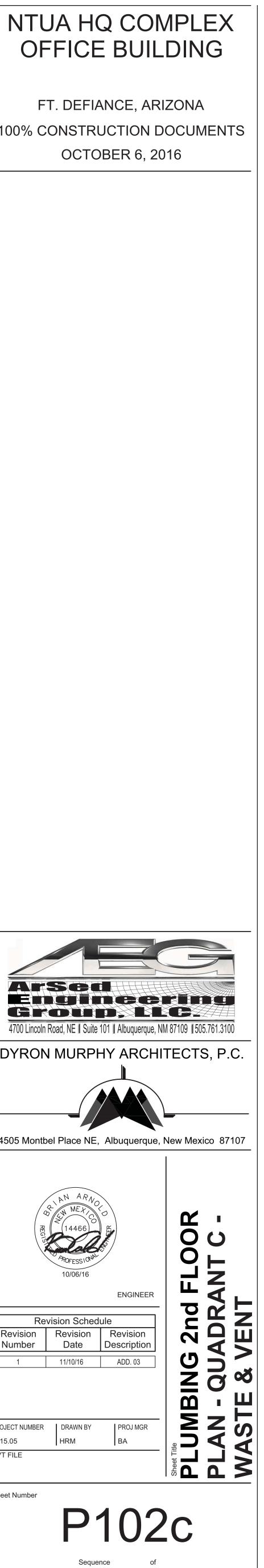


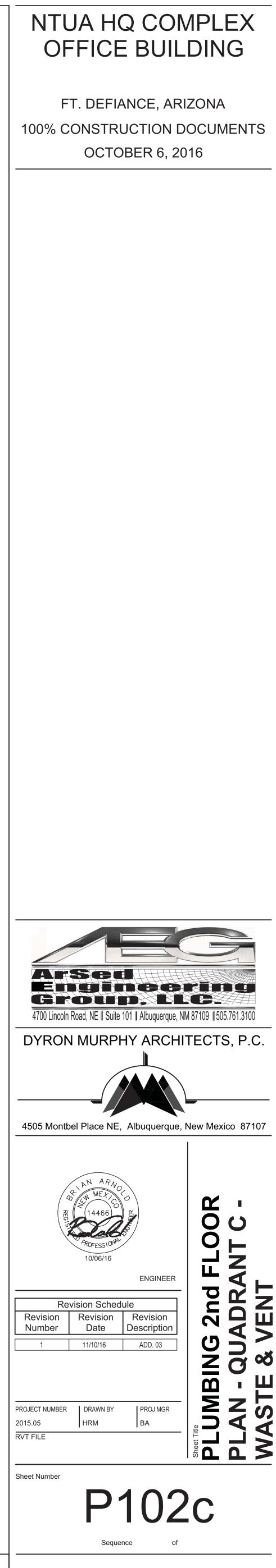


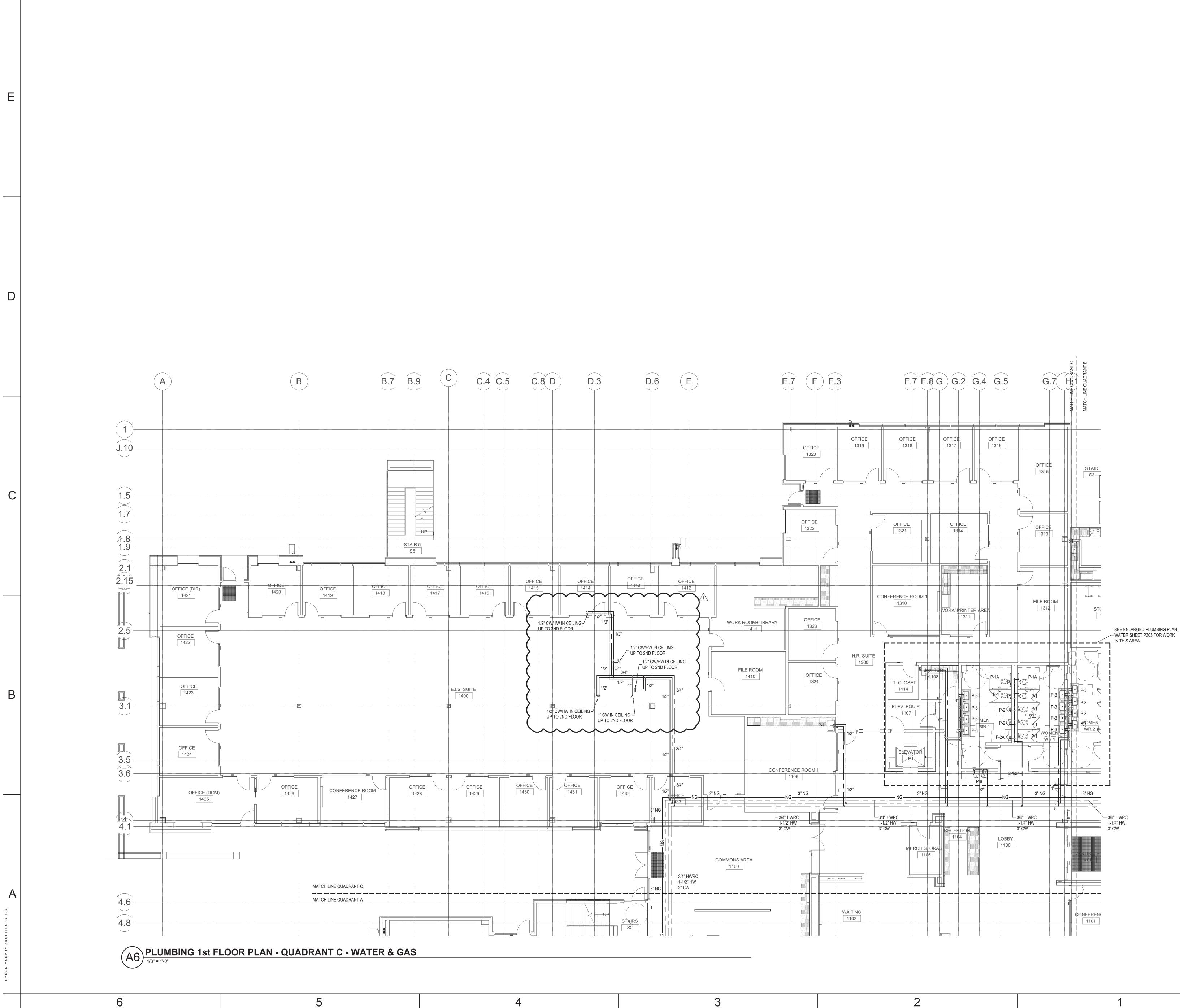




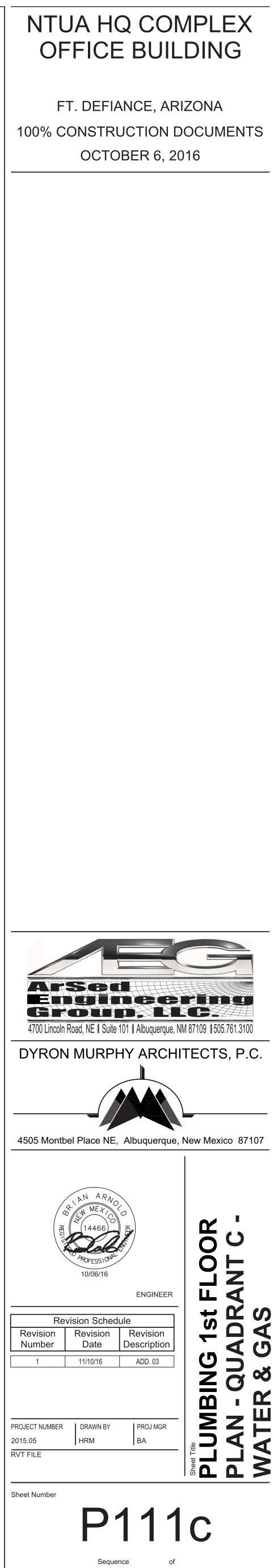
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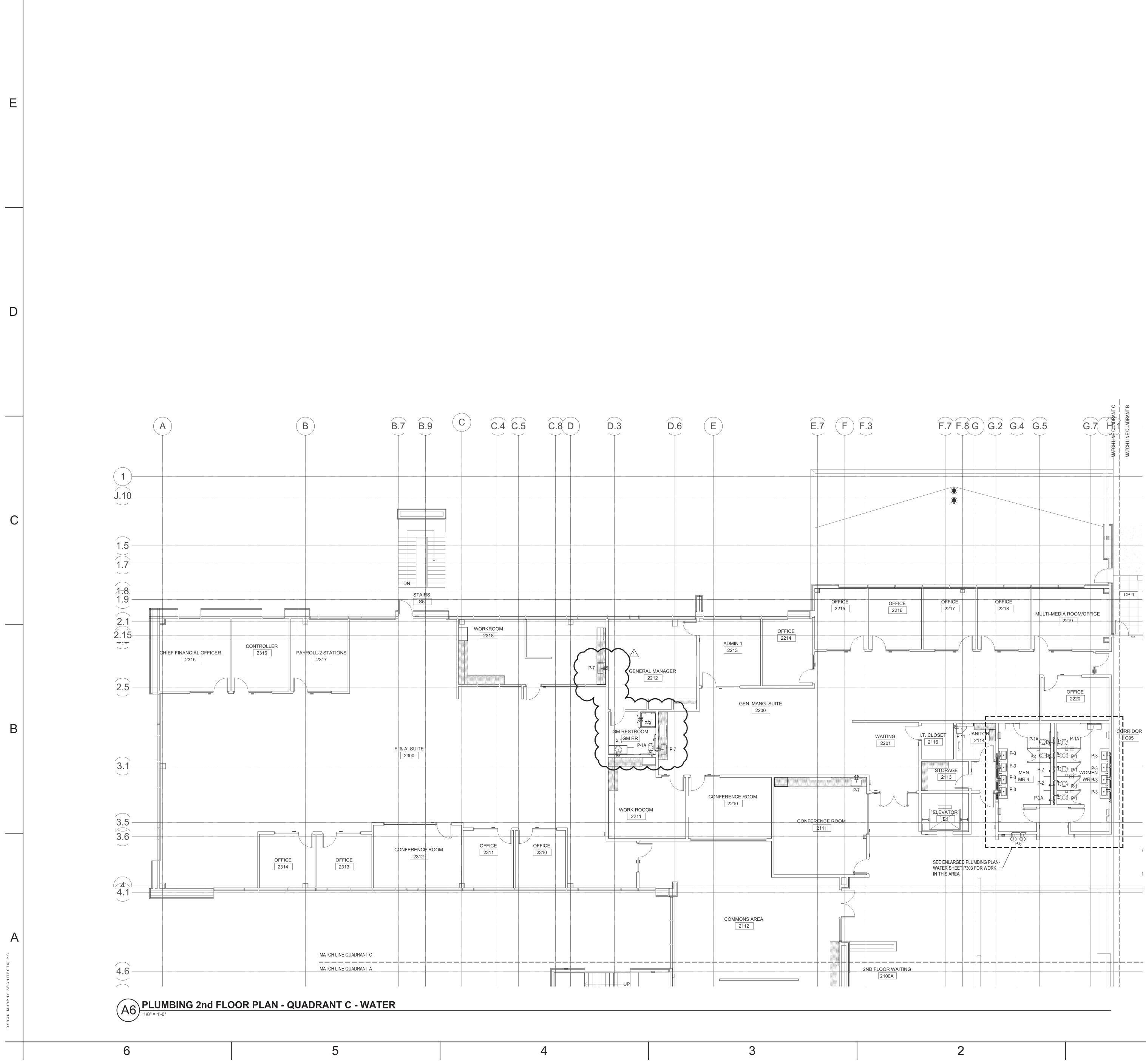


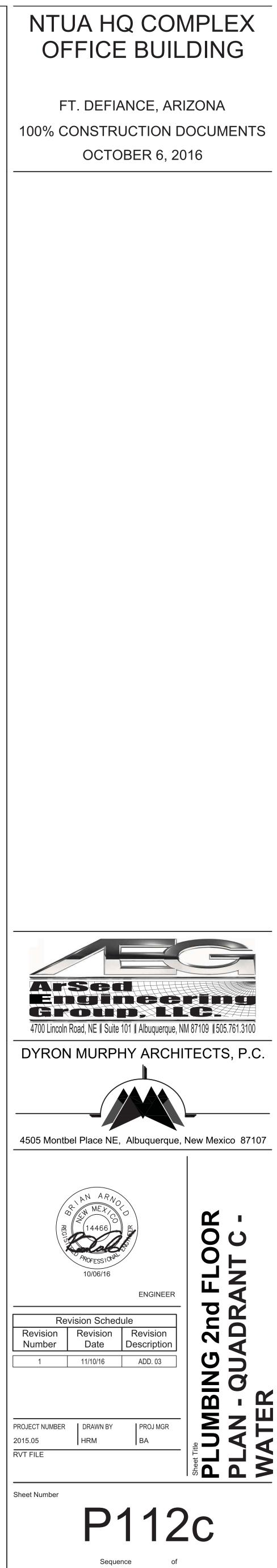


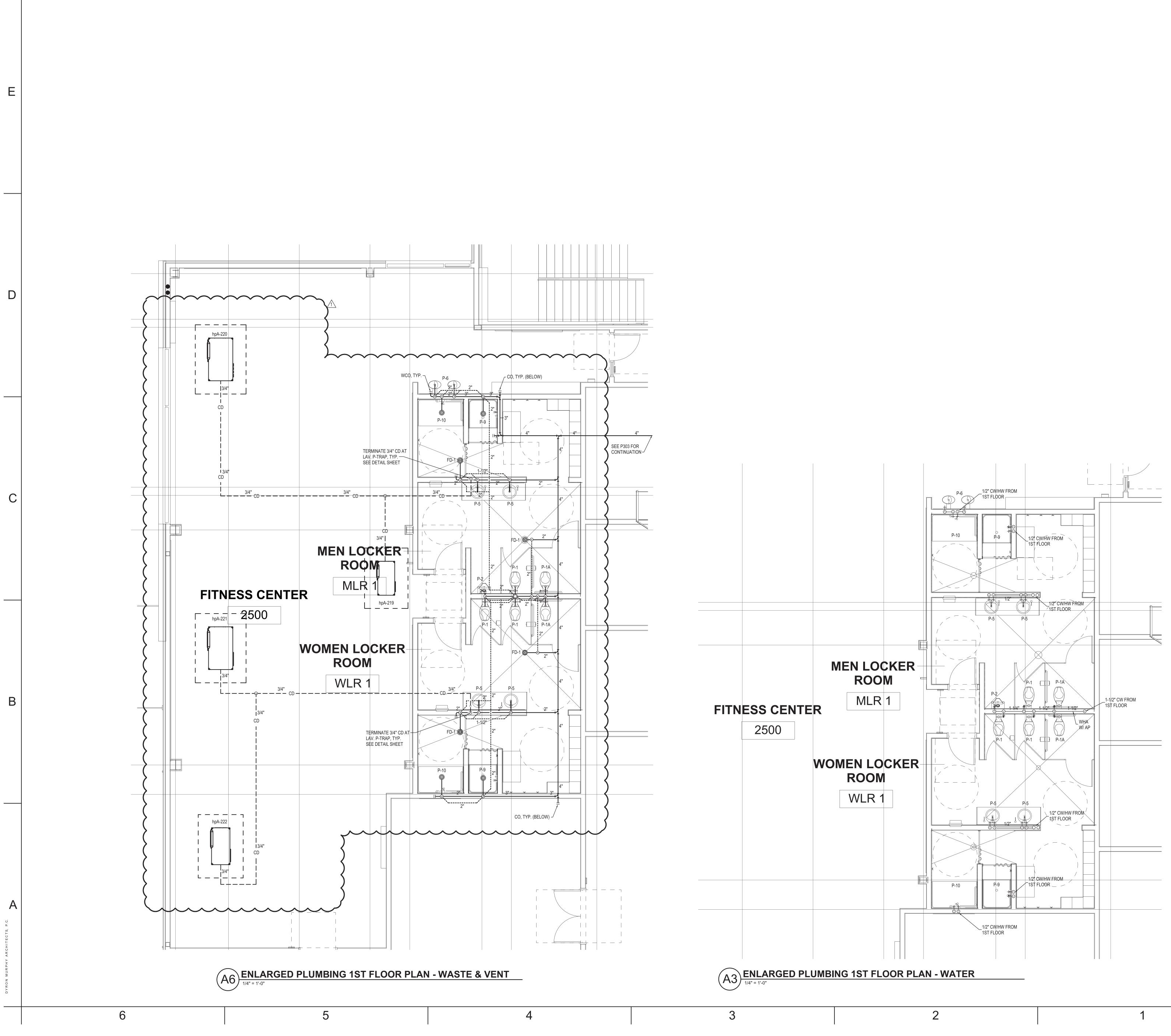


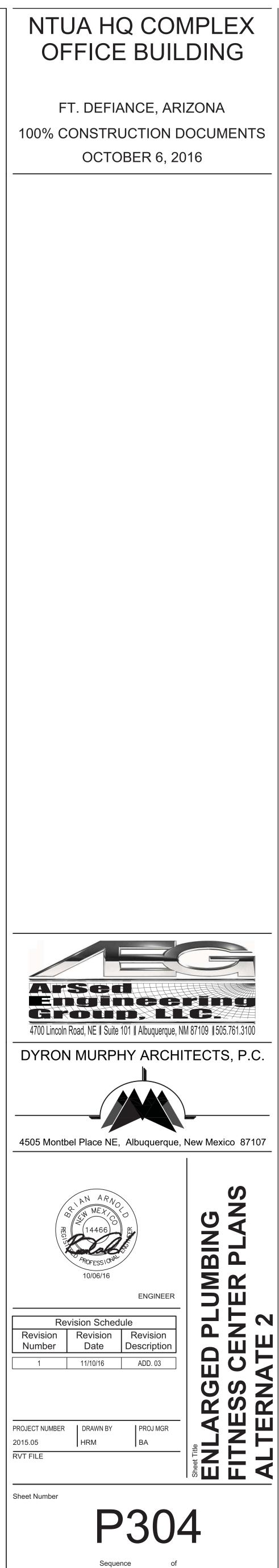


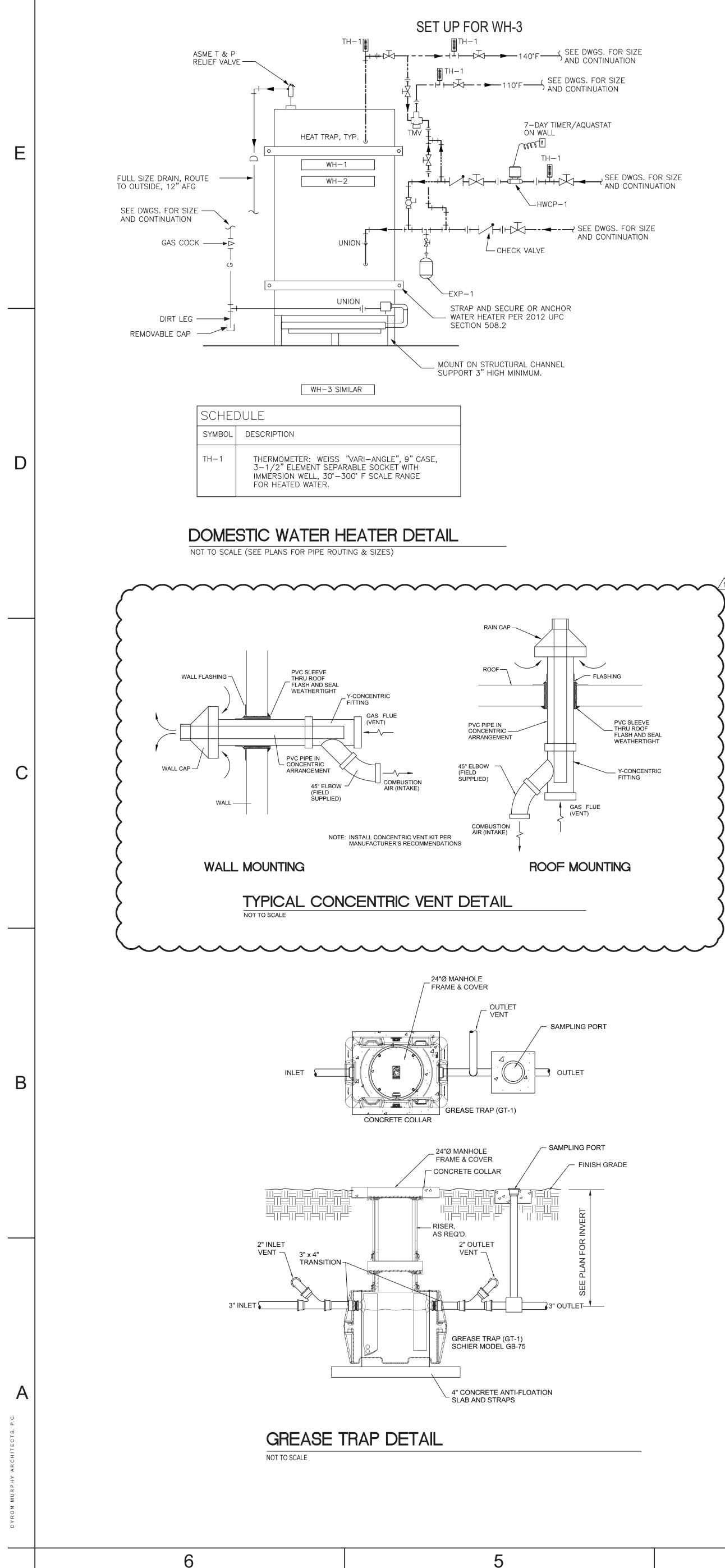


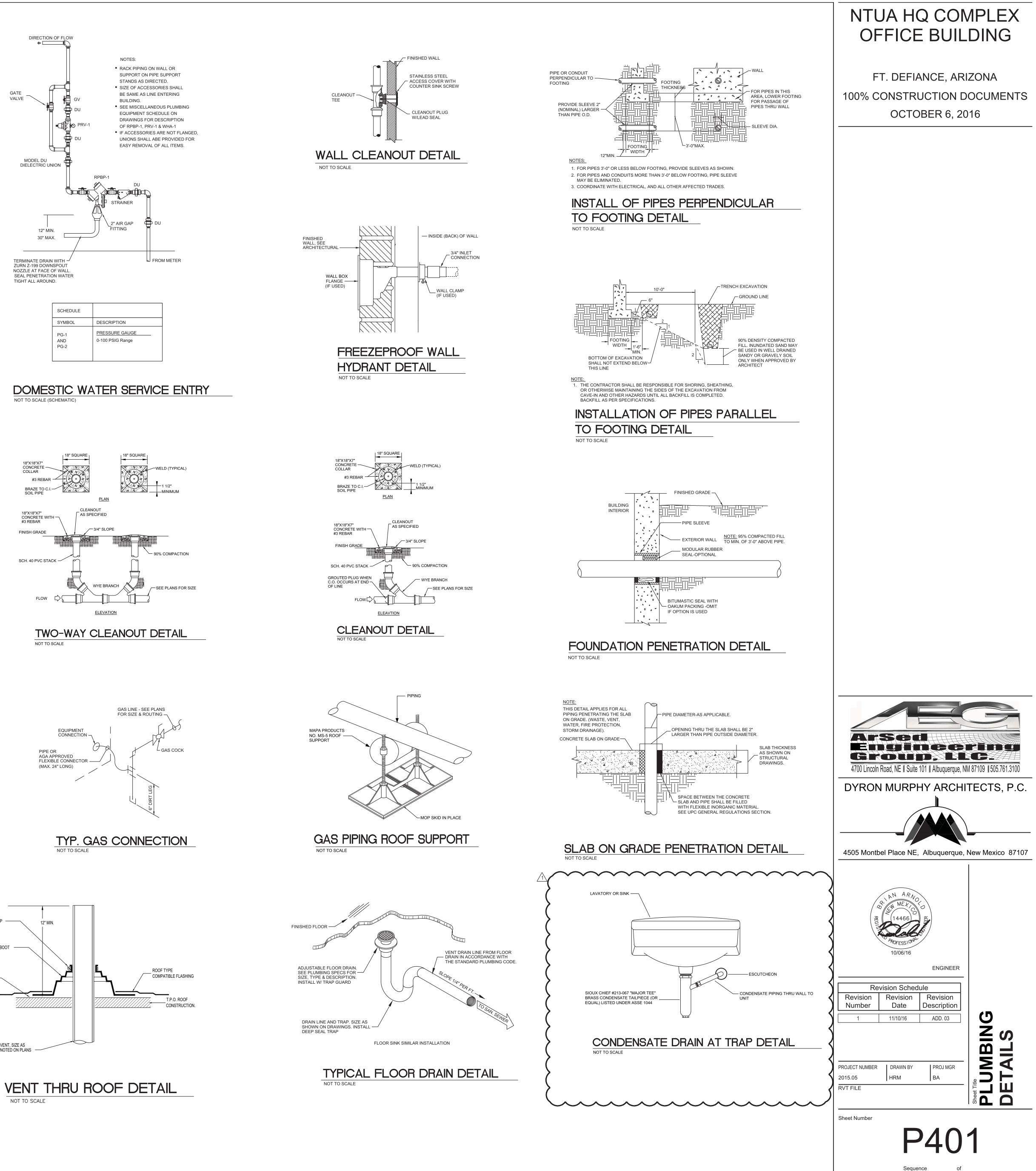


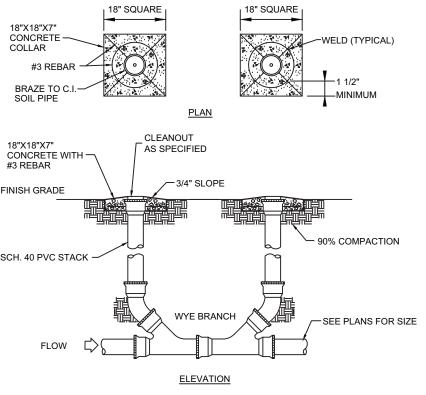




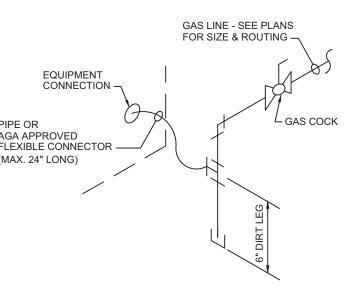


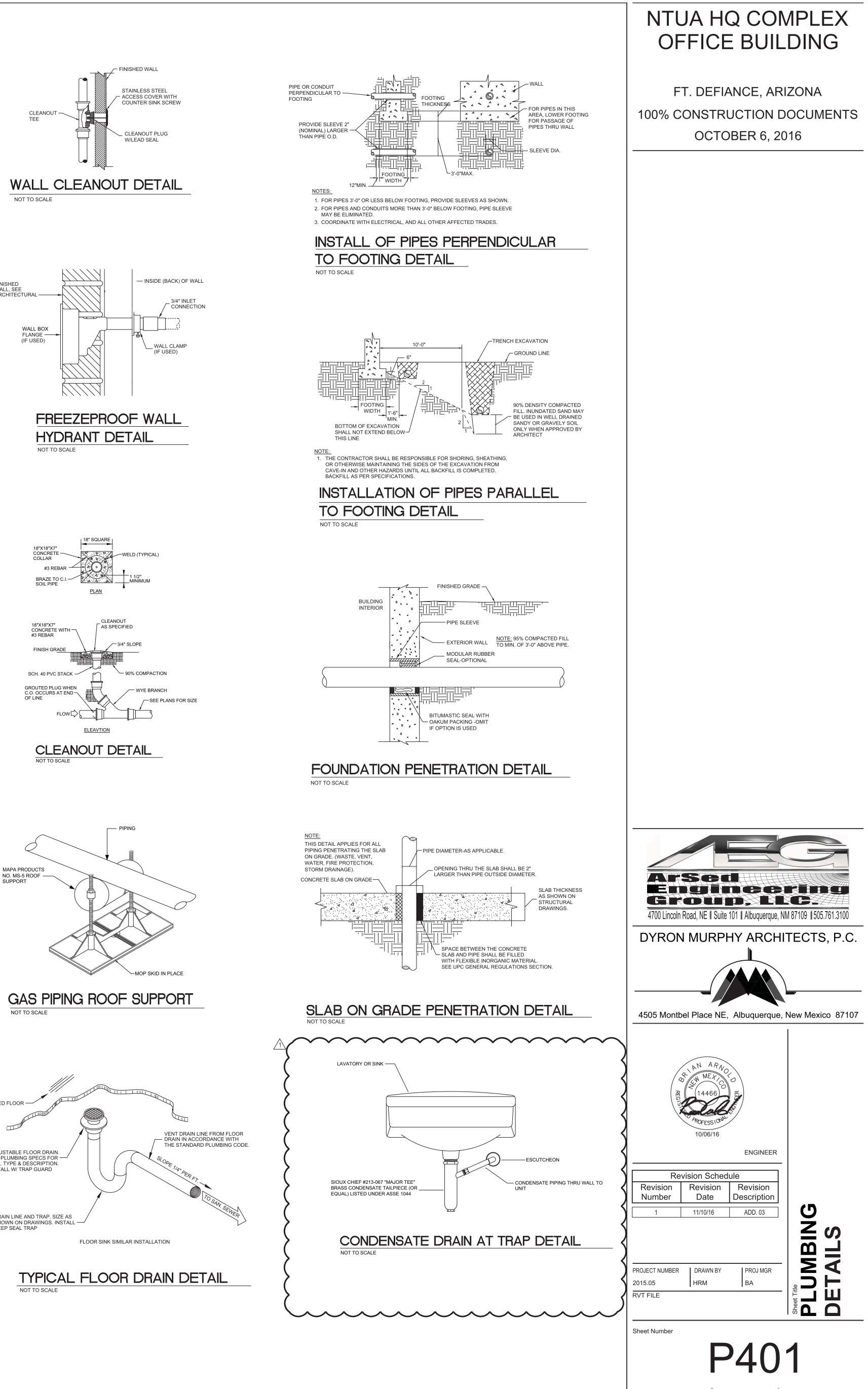




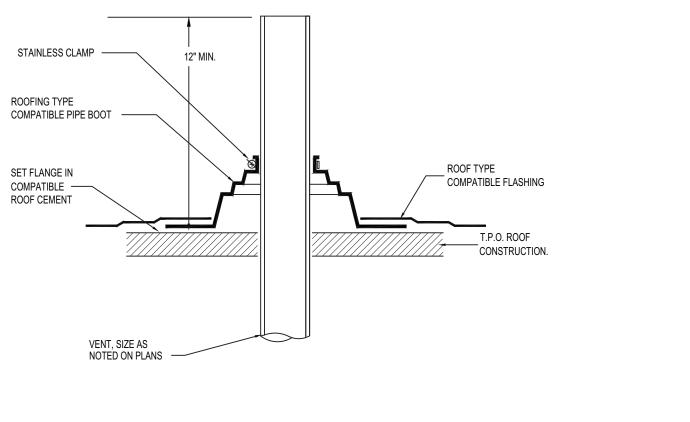


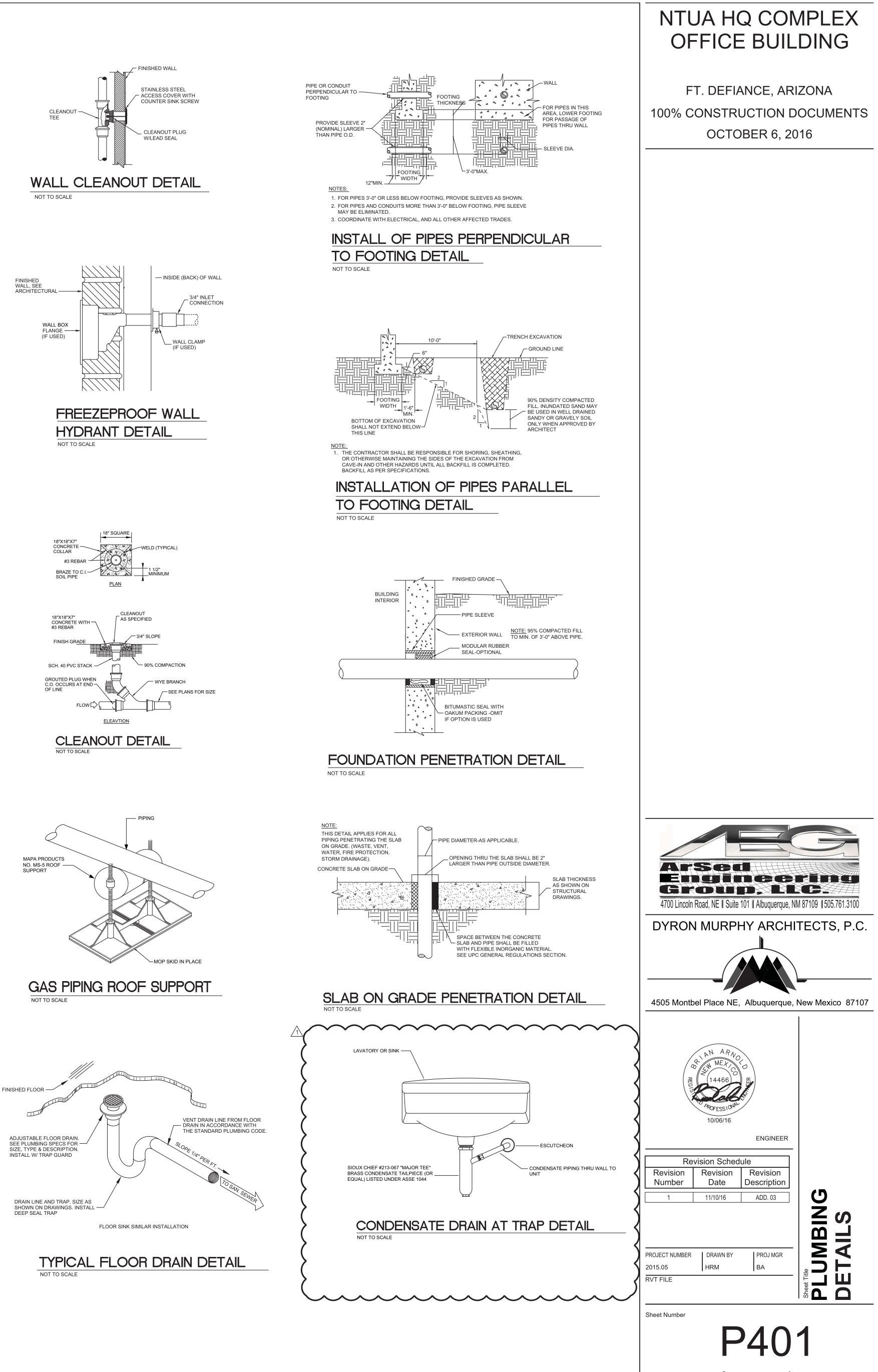














November 10, 2016

DYRON MURPHY ARCHITECTS, P.C. 4505 Montbel Place NE Albuquerque, NM 87107

ATTN: OSCAR TOVAR, ASSOC. AIA, SR. PROJECT MANAGER

> RE: NTUA HQ COMPLEX OFFICE BUILDING ADDENDUM #3 AEDI #50-15

Dear Mr. Tovar:

The following electrical questions and/or clarifications need to be included in an Addendum for the above referenced project:

# ELECTRICAL

13. The light fixtures "WE", "GE", "S", "N24", "N24E", "N40" and "U12" are found on the drawings but not on the light fixture schedule. Please advise. Please see additional fixtures below.

14. Will any electrical details be provided? Refer to Electrical Drawings for details.

15. On sheet E501 note 17 says to coordinate rough-in and trenching requirements. What are these requirements? See General Notes on Drawing E001. All trenching to be by Electrical Contractor per NTUA Standards; all primary and telephone conduits, pull boxes to be provided and installed by NTUA.

16. Is the electrical contractor required to provide site concrete primary line volts? No, all primary conduits, cabling, etc. to be by NTUA.

17. Who is providing the VFD's on sheet E103a? No specs could be found. Refer to Mechanical/Plumbing Drawings for VFD information.

18. On sheet E501, are the feeders, 225KVA transformer, 600a disconnect and 3 section panel part of the bid alt? They are not stated as a bid on the one-line. The feeders, 225KVA transformer, 600a disconnect and 3 section panel are to be included in Alt. No. 1 Kitchen Bid. The 350A circuit breaker in "MDP" to be provided under Base Bid.

Electricians are inquiring about duct bank. I have not seen any indication of a duct bank on this project. Please confirm. No duct bank is required.

How many Cat 6 cables are required per WAP location? One (1)

Are horizontal/vertical management panels required in each communications closet rack? Electrical Contractor to provide horizontal and vertical cable management panels as required for proper cable distribution to racks. Is there fiber optic cabling to be installed between closets? If so, # of strands, type (MM/SM) and connector types? Copper feeder pairs between closets as well? All backbone Fiber and Copper cabling to be by NTUA. Contractor to be responsible for pathways, i.e., conduits, sleeves, etc.

On Sheet E601 "Fixture Schedule":

- 1. ALL fixtures to be 277V.
- 2. Additional fixtures as follows:

GE – "Lithonia" #ZL1N L48 3000LM FST MVOLT 35K 80CRI WH EM WE – "Peachtree" #8HLRD-S-85-N-35K-W-277-EM S - "Lithonia" #2GTL 4 48L SWL MVOLT EZ1 LP835 N100 N24 – "PAL" #MLS5-I/D-MO/HO-K35-24-CN-DC/LOH-FXX-277 N24E – "PAL" #MLS5-I/D-MO/HO-K35-24-CN-DC/LOH-FXX-277-EMCKT N40 – "PAL" #MLS5-I/D-MO/HO-K35-40-CN-DC/LOH-FXX-277 U2 – "Mark Architectural Lighting" #S4LF 12FT FL H 35 HI 277 SW

Specifications:

Section 26-0519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES WIRING DEVICES AND PLATES: Delete all references to NM-C type cabling.

This concludes the electrical items for this addendum. If you have any questions, please contact the undersigned.

Sincerely,

ALLIED ENGINEERING AND DESIGN INC.

By:

Dennis M. Scarcell, Jr. Vice President, Proj. Manager