

**ADDENDUM NO. 01**

Date of Addendum: September 05, 2013

PROJECT NAME: HCC Alief Work Force Building

PROJECT NO: R020213

PROPOSAL SUBMITTAL DATE: **Tuesday, September 24, 2013**

FROM: Smith & Company Architects  
1500 McGowen St., Ste 150  
Houston, TX 77004  
713.524.4071 (fax)  
Email: mstribling@sc-arch.com

TO: Prospective Bidders

This Addendum forms a part of and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

*This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars (|) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.*

**CHANGES TO PROJECT MANUAL**

**SPECIFICATIONS**

**ITEM 01** Add Section 323113: CHAIN LINK FENCES AND GATES (Dated 09-05-13)

**DRAWINGS:**

**ARCHITECTURAL**

**ITEM 01:** Remove existing sheet A1.00 SITE PLAN  
Replace with new sheet A1.00 SITE PLAN (Dated 09-05-13)

**ITEM 02:** Remove existing sheet A1.05 ENLARGED SITE PLAN & SITE DETAILS  
**Replace with new sheet A1.05 ENLARGED SITE PLAN & SITE DETAILS**  
**(Dated 09-05-13)**

**ITEM 03:** Remove existing sheet A1.10 LANDSCAPE PLAN  
**Replace with new sheet A1.10 LANDSCAPE PLAN (Dated 09-05-13)**

**ITEM 04:** Remove existing sheet A2.01 FLOOR PLAN - AREA "A" & "B"  
**Replace with new sheet A2.01 FLOOR PLAN - AREA "A" & "B"**  
**(Dated 09-05-13)**

**ITEM 05:** Remove existing sheet A4.41 PLAN DETAILS  
**Replace with new sheet A4.41 PLAN DETAILS (Dated 09-05-13)**

**ITEM 06:** Remove existing sheet A5.01 ENLARGED PLAN & INTERIOR ELEVATIONS  
**Replace with new sheet A5.01 ENLARGED PLAN & INTERIOR ELEVATIONS**  
**(Dated 09-05-13)**

**ITEM 07:** Remove existing sheet A6.01 REFLECTED CEILING PLAN - AREA "A" & "B"  
**Replace with new sheet A6.01 REFLECTED CEILING PLAN - AREA "A" & "B"**  
**(Dated 09-05-13)**

**ITEM 08:** Remove existing sheet A7.11 MILLWORK DETAILS  
**Replace with new sheet A7.11 MILLWORK DETAILS (Dated 09-05-13)**

**CIVIL**

**ITEM 09:** Remove existing sheet C3.00 LAYOUT AND DIMENSION PLAN  
**Replace with new sheet C3.00 LAYOUT AND DIMENSION PLAN (Dated 09-05-13)**

**ITEM 10:** Remove existing sheet C4.00 UTILITY PLAN  
**Replace with new sheet C4.00 UTILITY PLAN (Dated 09-05-13)**

**ITEM 11:** Remove existing sheet C5.00 GRADING AND DRANAGE PLAN  
**Replace with new sheet C5.00 GRADING AND DRANAGE PLAN (Dated 09-05-13)**

**MECHANICAL**

**ITEM 12:** Remove existing sheet M2.01 FLOOR PLAN - MECHANICAL  
**Replace with new sheet M2.01 FLOOR PLAN - MECHANICAL (Dated 09-05-13)**

**ITEM 13:** Remove existing sheet M3.01 ENLARGED FLOOR PLANS - MECHANICAL  
**Replace with new sheet M3.01 ENLARGED FLOOR PLANS - MECHANICAL**  
**(Dated 09-05-13)**

**ITEM 14:** Remove existing sheet M4.01 DETAILS  
**Replace with new sheet M4.01 DETAILS (Dated 09-05-13)**

**ELECTRICAL**

**ITEM 15:** Remove existing sheet E1.02 ELECTRICAL LEGEND  
**Replace with new sheet E1.02 ELECTRICAL LEGEND (Dated 09-05-13)**

**ITEM 16:** Remove existing sheet E2.01 FLOOR PLAN - POWER  
**Replace with new sheet E2.01 FLOOR PLAN - POWER (Dated 09-05-13)**

**ITEM 17:** Remove existing sheet E2.02 FLOOR PLAN - EQUIPMENT POWER  
**Replace with new sheet E2.02 FLOOR PLAN - EQUIPMENT POWER (Dated 09-05-13)**

**PLUMBING**

**ITEM 18:** Remove existing sheet P1.02 NOTES AND LEGEND  
**Replace with new sheet P1.02 NOTES AND LEGEND (Dated 09-05-13)**

**ITEM 19:** Remove existing sheet P2.01 ENLARGED FLOOR PLAN - DOMESTIC  
**Replace with new sheet P2.01 ENLARGED FLOOR PLAN - DOMESTIC (Dated 09-05-13)**

**ITEM 20:** Remove existing sheet P3.01 ENLARGED FLOOR PLAN - SANITARY  
**Replace with new sheet P3.01 ENLARGED FLOOR PLAN - SANITARY (Dated 09-05-13)**

**END OF ADDENDUM NO. 1**

**END OF DOCUMENT**

## SECTION 323113 - CHAIN LINK FENCES AND GATES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:

- 1. Chain-link fences.
- 2. Gates: swing.

- B. Related Sections:

- 1. Section 033053 "Miscellaneous Cast-in-Place Concrete" for cast-in-place concrete post footings.

#### 1.3 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design chain-link fences and gates, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

- B. Structural Performance: Chain-link fence and gate framework shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated according to ASCE/SEI 7:

- 1. Minimum Post Size: Determine according to ASTM F 1043 for framework up to 12 feet (3.66 m) high, and post spacing not to exceed 10 feet (3 m) for
  - a. Fence Height: 7'-0".
  - b. Material Group: IA, ASTM F 1043, Schedule 40 steel pipe.

#### 1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for chain-link fences and gates.

- 1. Fence and gate posts, rails, and fittings.
- 2. Chain-link fabric, reinforcements, and attachments.

3. Accessories: Privacy slats, Barbed wire.
  4. Gates and hardware.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work. Show accessories, hardware, gate operation, and operational clearances.
- C. Samples for Initial Selection: For components with factory-applied color finishes.
- D. Samples for Verification: Prepared on Samples of size indicated below:
1. Polymer-Coated Components: In 6-inch (150-mm) lengths for components and on full-sized units for accessories.
- E. Delegated-Design Submittal: For chain-link fences and gate framework indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

#### 1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified factory-authorized service representative.
- B. Product Certificates: For each type of chain-link fence, and gate, from manufacturer.
- C. Product Test Reports: For framing strength according to ASTM F 1043.
- D. Field quality-control reports.
- E. Warranty: Sample of special warranty.

#### 1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For the following to include in emergency, operation, and maintenance manuals:
1. Polymer finishes.
  2. Gate hardware.

#### 1.7 QUALITY ASSURANCE

- A. Emergency Access Requirements: Comply with requirements of authorities having jurisdiction for gates with automatic gate operators serving as a required means of access.
- B. Mockups: Build mockups to set quality standards for fabrication and installation.
1. Include 10-foot (3 m) length of fence and gate.
- C. Preinstallation Conference: Conduct conference at Project site.
1. Review sequence of operation for each type of gate operator.

2. Review coordination of interlocked equipment specified in this Section and elsewhere.
3. Review required testing, inspecting, and certifying procedures.

## 1.8 PROJECT CONDITIONS

- A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

## 1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of chain-link fences and gates that fail in materials or workmanship within specified warranty period.
  1. Failures include, but are not limited to, the following:
    - a. Faulty operation of gate operators and controls.
    - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
  2. Warranty Period: 15 years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 FENCE FRAMING

- A. Posts and Rails: Comply with ASTM F 1043 for framing, including rails, braces, and line; terminal; and corner posts. Provide members with minimum dimensions and wall thickness according to ASTM F 1043 based on the following:
  1. Fence Height: As indicated on Drawings.
  2. Light Industrial Strength: Material Group IC-L, round steel pipe, electric-resistance-welded pipe.
    - a. Line Post: 2.375 inches (60 mm) in diameter.
    - b. End, Corner and Pull Post: 2.875 inches (73 mm).
  3. Horizontal Framework Members: top and bottom rails complying with ASTM F 1043.
    - a. Top Rail: 1.25 by 1.63 inches (32 by 41 mm).
  4. Brace Rails: Comply with ASTM F 1043.
  5. Polymer coating over metallic coating.

- a. Color: As selected by Architect from manufacturer's full range, complying with ASTM F 934.

## 2.2 TENSION WIRE

- A. Polymer-Coated Steel Wire: 0.148-inch- (3.8-mm-) diameter, tension wire complying with ASTM F 1664, Class 1 over zinc-coated steel wire.
  1. Color: As selected by Architect from manufacturer's full range, complying with ASTM F 934.

## 2.3 SWING GATES

- A. General: Comply with ASTM F 900 for gate posts and single swing gate types.
  1. Gate Leaf Width: 36 inches (914 mm).
  2. Gate Fabric Height: As indicated.
- B. Pipe and Tubing:
  1. Zinc-Coated Steel: Comply with ASTM F 1043 and ASTM F 1083; protective coating and finish to match fence framing.
  2. Gate Posts: Round tubular steel.
  3. Gate Frames and Bracing: Round tubular steel.
- C. Frame Corner Construction: Welded or assembled with corner fittings.

## 2.4 FITTINGS

- A. General: Comply with ASTM F 626.
- B. Post Caps: Provide for each post.
  1. Provide line post caps with loop to receive tension wire or top rail.
- C. Rail and Brace Ends: For each gate, corner, pull, and end post.
- D. Rail Fittings: Provide the following:
  1. Top Rail Sleeves: Pressed-steel or round-steel tubing not less than 6 inches (152 mm) long.
- E. Tension and Brace Bands: Pressed steel.
- F. Tension Bars: Steel, length not less than 2 inches (50 mm) shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post, unless fabric is integrally woven into post.

- G. Truss Rod Assemblies: Steel, hot-dip galvanized after threading rod and turnbuckle or other means of adjustment.
- H. Barbed Wire Arms: Pressed steel or cast iron, with clips, slots, or other means for attaching strands of barbed wire, integral with post cap; for each post unless otherwise indicated, and as follows:
  - 1. Provide line posts with arms that accommodate top rail or tension wire.
  - 2. Provide corner arms at fence corner posts, unless extended posts are indicated.
  - 3. Type I, single slanted arm.
- I. Tie Wires, Clips, and Fasteners: According to ASTM F 626.
  - 1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and frames, complying with the following:
    - a. Hot-Dip Galvanized Steel: 0.148-inch- (3.76-mm-) diameter wire; galvanized coating thickness matching coating thickness of chain-link fence fabric.
- J. Finish:
  - 1. Metallic Coating for Pressed Steel or Cast Iron: Not less than 1.2 oz. /sq. ft. (366 g /sq. m) zinc.
    - a. Polymer coating over metallic coating.

## 2.5 PRIVACY SLATS

- A. Material: PVC, UV-light stabilized, flame resistant, four ply, not less than 0.023 inch (0.58 mm) thick; attached to not less than 0.0475-inch- (1.21-mm-) diameter, twisted galvanized wire; hedge-type lattice; sized to fit mesh specified for direction indicated.
- B. Material: Polyethylene tubular slats, not less than 0.023 inch (0.58 mm) thick, manufactured for chain-link fences from virgin polyethylene containing UV inhibitor, sized to fit mesh specified for direction indicated; with vandal-resistant fasteners and lock strips.
- C. Color: As selected by Architect from manufacturer's full range.

## 2.6 BARBED WIRE

- A. Polymer-Coated, Galvanized-Steel Barbed Wire: Comply with ASTM F 1665 two-strand barbed wire, 0.080-inch- (2.03-mm-) diameter line wire with 0.080-inch- (2.03-mm-) diameter, four-point round galvanized-steel barbs spaced not more than 5 inches (127 mm) o.c.:
  - 1. Polymer Coating: Class 1 over zinc-coated steel wire.
    - a. Color: As selected by Architect from manufacturer's full range, complying with ASTM F 934.



## 2.7 GROUT AND ANCHORING CEMENT

- A. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107. Provide grout, recommended in writing by manufacturer, for exterior applications.

## 2.8 FENCE GROUNDING

- A. Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.
  - 1. Material above Finished Grade: Copper.
  - 2. Material on or below Finished Grade: Copper.
  - 3. Bonding Jumpers: Braided copper tape, 1 inch (25 mm) wide, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.
- B. Connectors and Grounding Rods: Comply with UL 467.
  - 1. Connectors for Below-Grade Use: Exothermic welded type.
  - 2. Grounding Rods: Copper-clad steel, 5/8 by 96 inches (16 by 2440 mm).

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for a verified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance of the Work.
  - 1. Do not begin installation before final grading is completed unless otherwise permitted by Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet (152.5 m) or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

### 3.3 INSTALLATION, GENERAL

- A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements indicated.
  - 1. Install fencing on established boundary lines inside property line.

### 3.4 CHAIN-LINK FENCE INSTALLATION

- A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
  - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
  - 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
    - a. Concealed Concrete: Top below grade as indicated on Drawings to allow covering with surface material.
    - b. Posts Set into Voids in Concrete: Form or core drill holes not less than 5 inches (125 mm) deep and 3/4 inch (20 mm) larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions, and finished sloped to drain water away from post.
- C. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more as indicated on Drawings.
- D. Line Posts: Space line posts uniformly at 96 inches (2440 mm)o.c.
- E. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Diagonally brace terminal posts to adjacent line posts with truss rods and turnbuckles. Install braces at end and gate posts and at both sides of corner and pull posts.
  - 1. Locate horizontal braces at midheight of fabric 72 inches (1830 mm) or higher, on fences with top rail and at two-third fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.
- F. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch- (3.05-mm-) diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches (610 mm) o.c. Install tension wire in locations indicated before stretching fabric. Provide horizontal tension wire at the following locations:
  - 1. Extended along top and bottom of fence fabric. Install top tension wire through post cap loops. Install bottom tension wire within 6 inches (152 mm) of bottom of fabric and tie to each post with not less than same diameter and type of wire.
  - 2. Extended along top of barbed wire arms and top of fence fabric for supporting barbed tape.
- G. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and

terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.

- H. Intermediate and Bottom Rails: Install and secure to posts with fittings.
- I. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches (380 mm) o.c.
- J. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at one end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.
  - 1. Maximum Spacing: Tie fabric to line posts at 12 inches (300 mm) o.c. and to braces at 24 inches (610 mm) o.c.
- K. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side. Peen ends of bolts or score threads to prevent removal of nuts.
- L. Privacy Slats: Install slats in direction indicated, securely locked in place.
  - 1. Vertically, for privacy factor of 70 to 75.
- M. Barbed Wire: Install barbed wire uniformly spaced , angled toward security side of fence. Pull wire taut, install securely to extension arms, and secure to end post or terminal arms.

### 3.5 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

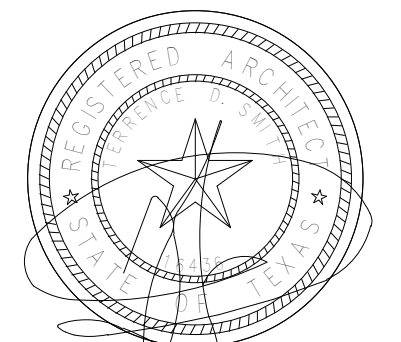
### 3.6 ADJUSTING

- A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

### 3.7 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's personnel to adjust, operate, and maintain chain-link fences and gates.

END OF SECTION 323113



JULY 22, 2013

Structural Engineer Consultant:

**Garza + McLain**  
13313 Southwest Freeway, suite #163  
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P. 281.484.1230  
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Civil Engineer / MEP Engineer Consultant:

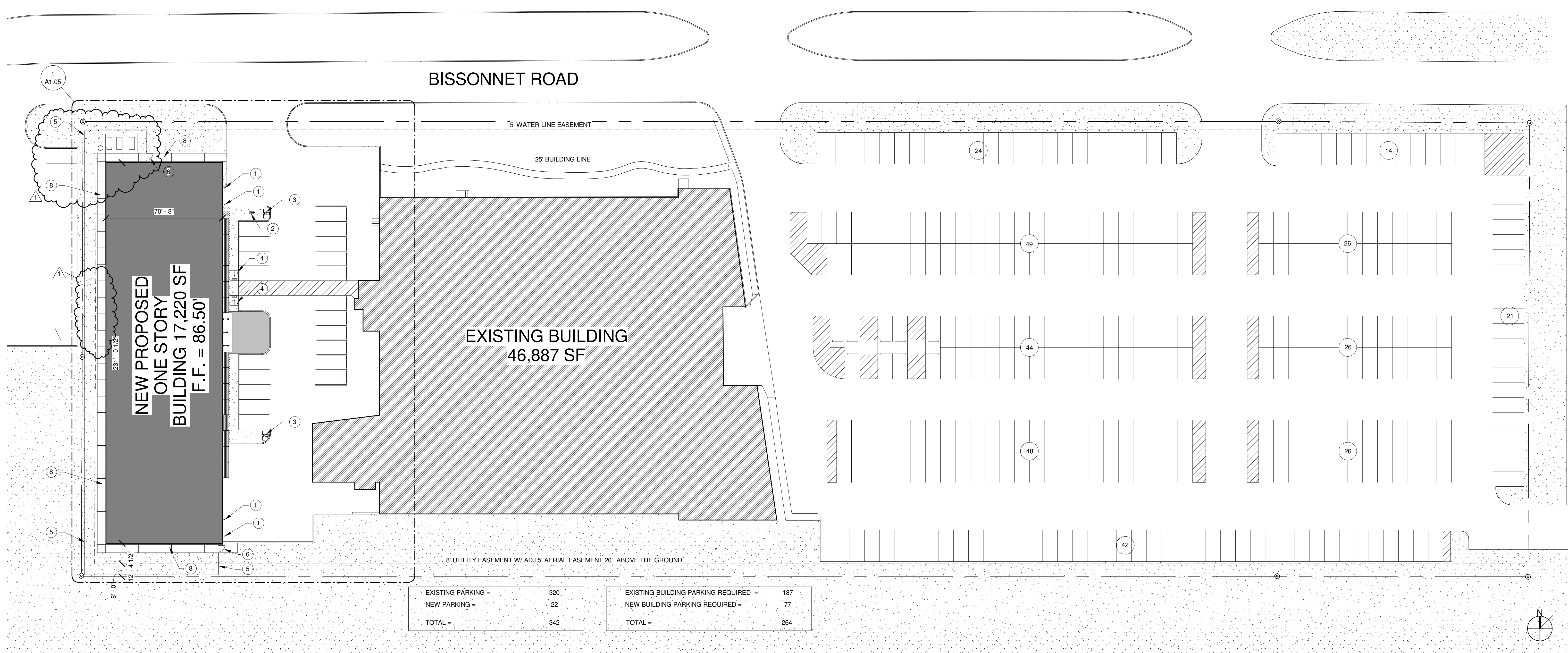
**MEP IT**  
6117 Richmon Ave, suite #200  
Houston, TX 77057  
P. 713.622.0120  
F. 713.622.0557

- 1 6" PIPE BOLLARD PAINTED, RE: 14/A1.05
- 2 MONUMENT SIGN, RE: 1/G1.11
- 3 20' - 0" LIGHT POLE AND CONC BASE, RE: ELEC, CIVIL & STRUCT
- 4 ADA PARKING SIGN, RE: 12/A1.05
- 5 NEW 7'-0" BLACK VINYL COATED CHAIN LINK FENCE W/ PRIVACY SLATS & RAZOR WIRE ON TOP, RE: 20/A1.05
- 6 NEW BLACK VINYL COATED CHAIN LINK GATE WITH EXIT HARDWARE & PRIVACY SLATS
- 7 AC UNITS ON CONC PAD, RE: MECH DWG'S
- 8 NEW 5'-0" CONC WALK

KEY NOTES NO SCALE 5

- 1 REFER CIVIL SHEETS FOR ADDITIONAL INFORMATION
- 2 REFER ELECTRICAL DRAWINGS FOR UNDERGROUND ELECTRICAL REQUIREMENTS
- 3 REFER PLUMBING DRAWINGS FOR UNDERGROUND PLUMBING REQUIREMENTS

GENERAL NOTED NO SCALE 4



EXISTING PARKING =	320	EXISTING BUILDING PARKING REQUIRED =	187
NEW PARKING =	22	NEW BUILDING PARKING REQUIRED =	77
TOTAL =	342	TOTAL =	264

HOUSTON COMMUNITY COLLEGE

HCC ALIEF BISSONNET - WORK FORCE BUILDING

13803 BISSONNET ST.  
HOUSTON, TEXAS

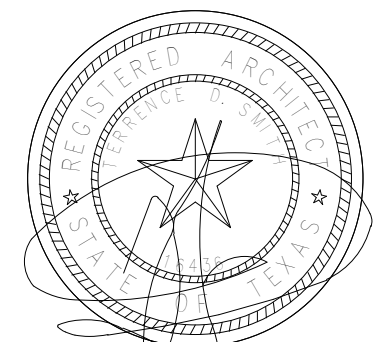
NO.	DATE	DESCRIPTION
1	09/05/2013	ADDENDUM #01

BID / PERMIT  
100% CONSTRUCTION DOCUMENTS

DATE: JULY 22, 2013  
PROJECT NO.: R020213

SITE PLAN

**A1.00**



JULY 22, 2013

Structural Engineer Consultant:

**Garza + McLain**  
13313 Southwest Freeway, suite #163  
Sugar Land, TX 77478  
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**HCC ALIEF BISSONNET - WORK FORCE BUILDING**

13803 BISSONNET ST.  
HOUSTON, TEXAS

NO.	DATE	DESCRIPTION
1	09/05/2013	ADDENDUM #01
	13	

**BID / PERMIT**  
100% CONSTRUCTION DOCUMENTS

DATE: JULY 22, 2013  
PROJECT NO.: R020213

**ENLARGED SITE PLAN & SITE DETAILS**

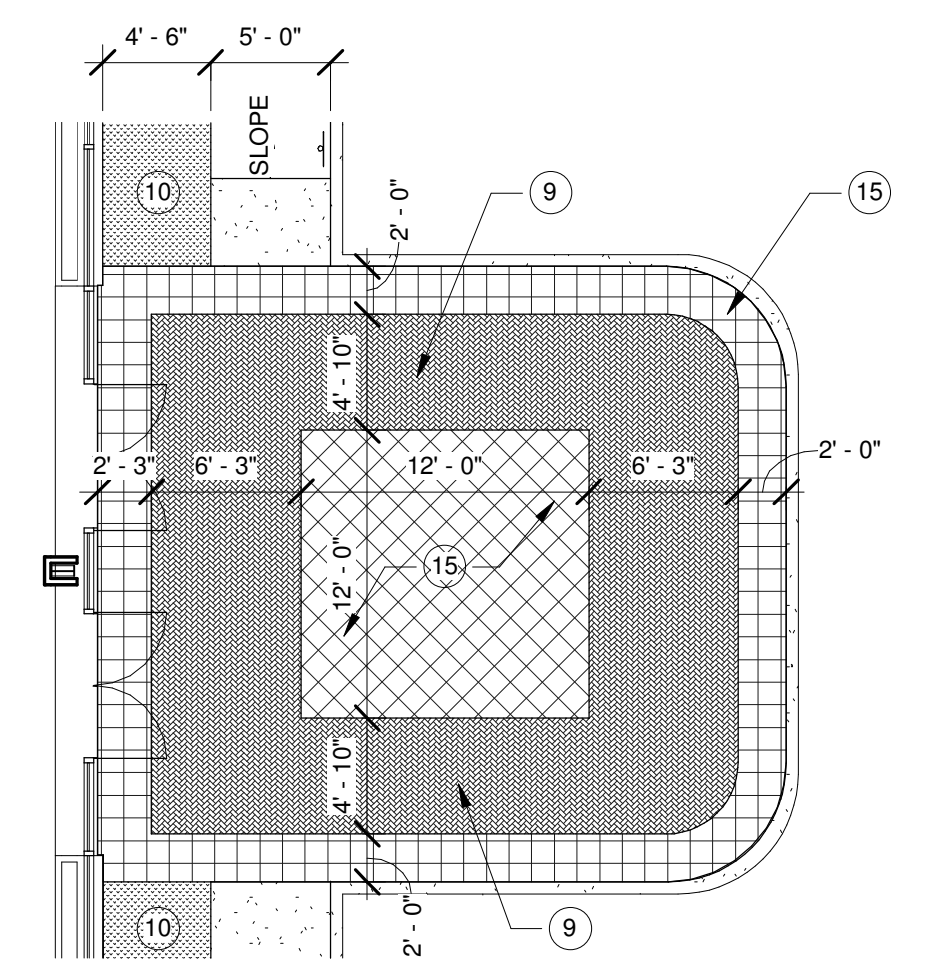
**A1.05**

- 1 NEW 6" PIPE BOLLARD PAINTED, RE: 14/A1.05
- 2 NEW MONUMENT SIGN, RE: 1/G1.11
- 3 NEW 20' - 0" LIGHT POLE AND CONC BASE, RE: ELEC, CIVIL & STRUCT
- 4 NEW ADA PARKING SIGN, RE: 12/A1.05
- 5 NOT USED
- 6 NEW 4" WIDE PAINTED STRIPING
- 7 EXISTING BUILDING
- 8 NEW BLACK VINYL COATED CHAIN LINK GATE WITH EXIT HARDWARE & PRIVACY SLATS
- 9 NEW CONC PAVER, PAVESTONE CITY STONE II 1/2 SQUARE & SQUARE BUNDLED TOGETHER
- 10 NEW SOD AND SHRUBS RE: A1.10
- 11 NEW 5'-0" CONC WALK
- 12 EXISTING STORM INLET RE: CIVIL
- 13 NEW 7'-0" HIGH BLACK VINYL COATED CHAIN LINK FENCE W/ PRIVACY SLATS & RAZOR ON TOP RE: 20/A1.05
- 14 NEW AC UNITS ON NEW CONC PAD, RE: MECH DWGS
- 15 NEW CONC PAVER, PAVESTONE CITY STONE II 1/2 SQUARE & SQUARE BUNDLED TOGETHER
- 16 EXISTING MAN HOLE COVER, RE: CIVIL

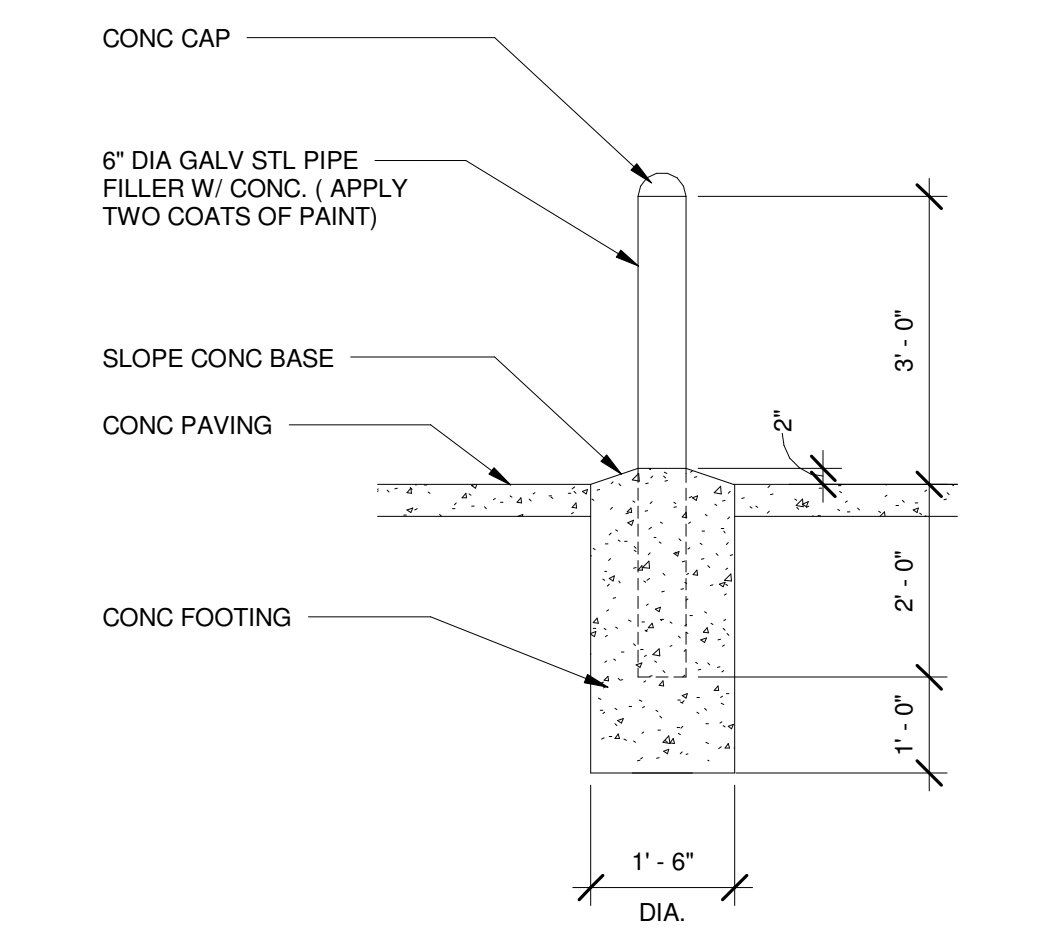
KEY NOTES NO SCALE 5

- 1 REFER CIVIL SHEETS FOR ADDITIONAL INFORMATION
- 2 REFER ELECTRICAL DRAWINGS FOR UNDERGROUND ELECTRICAL REQUIREMENTS
- 3 REFER PLUMBING DRAWINGS FOR UNDERGROUND PLUMBING REQUIREMENTS

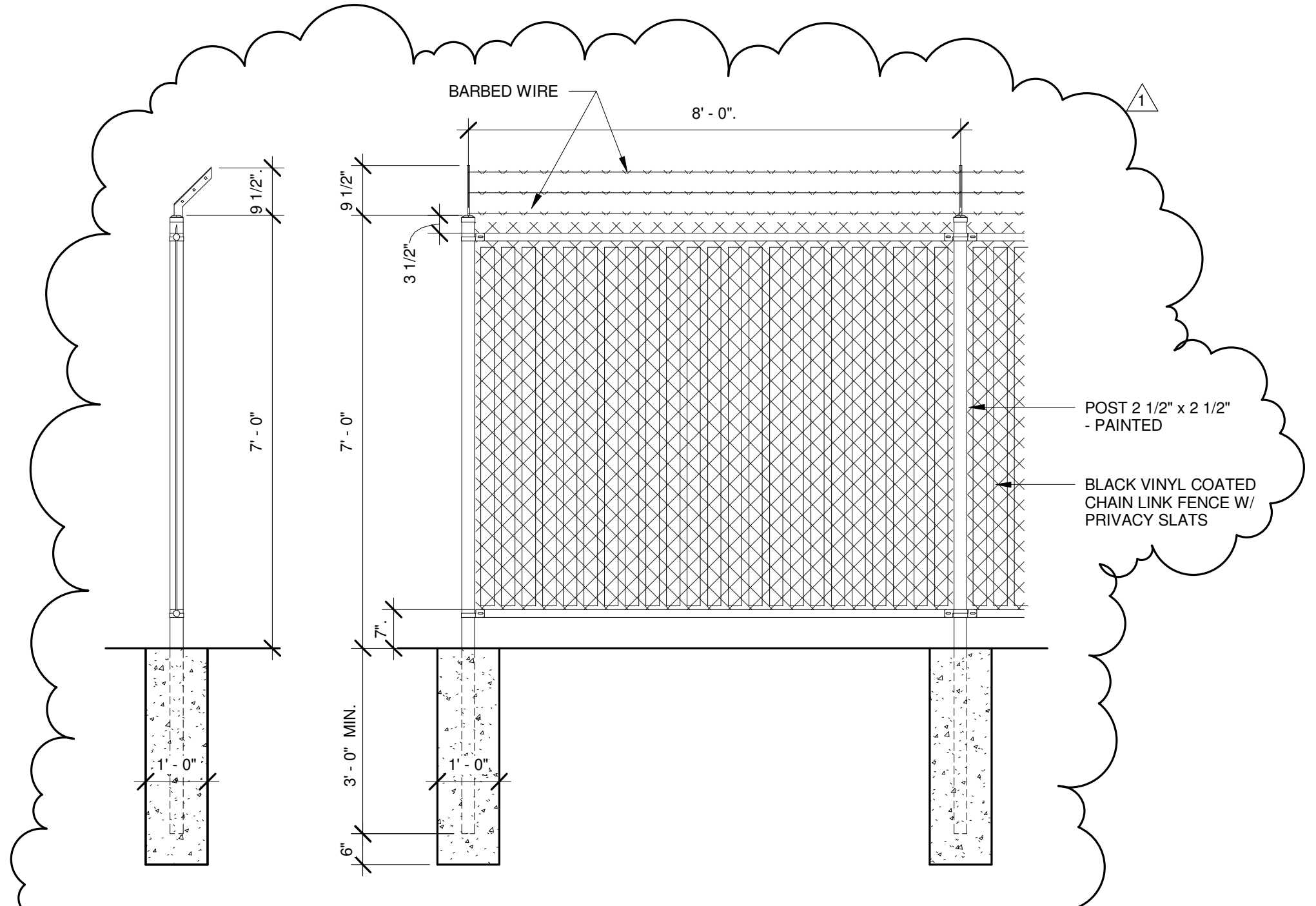
GENERAL NOTES NO SCALE 4



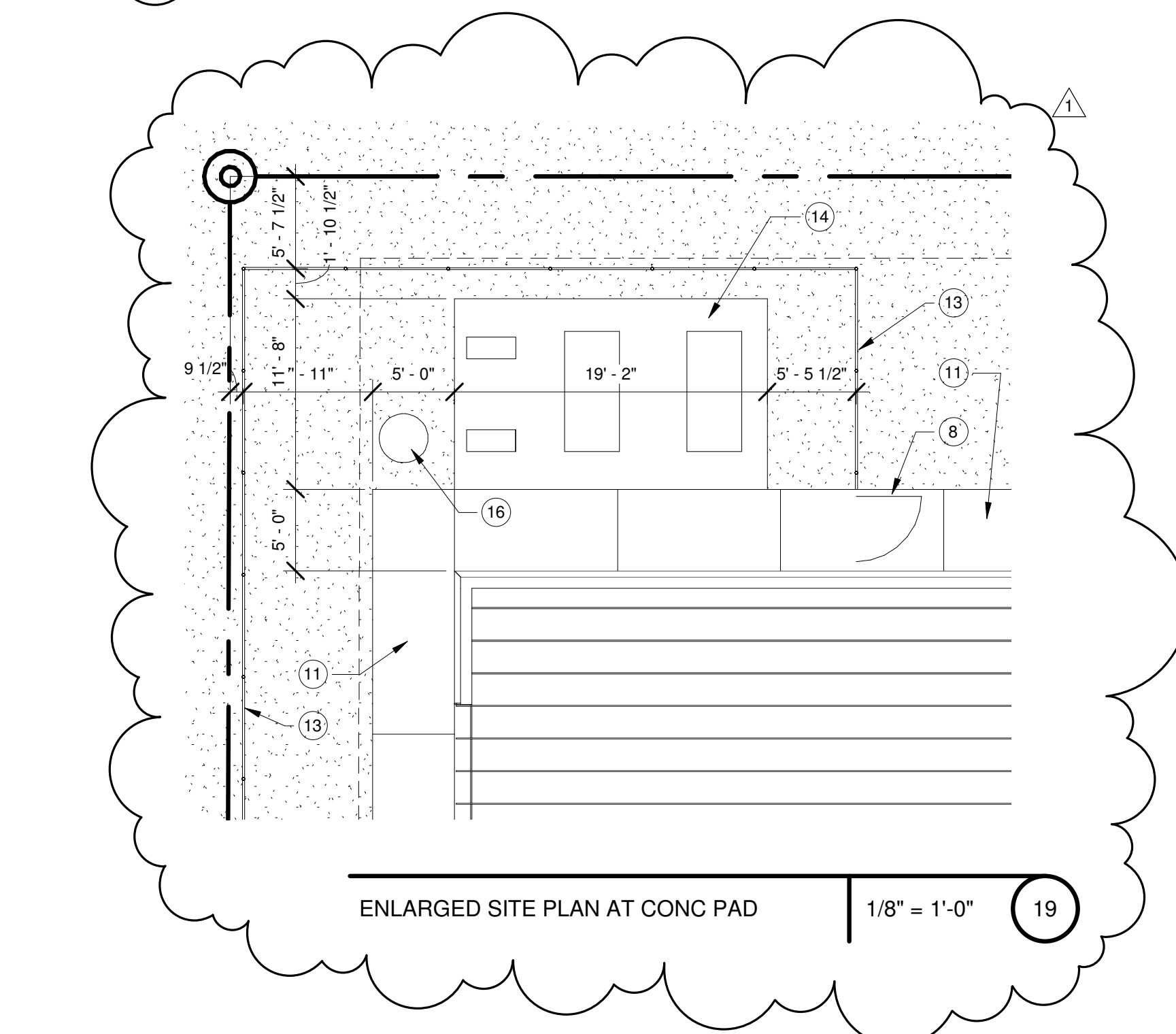
CONC PAVER PATTERN 1/8" = 1'-0" 16



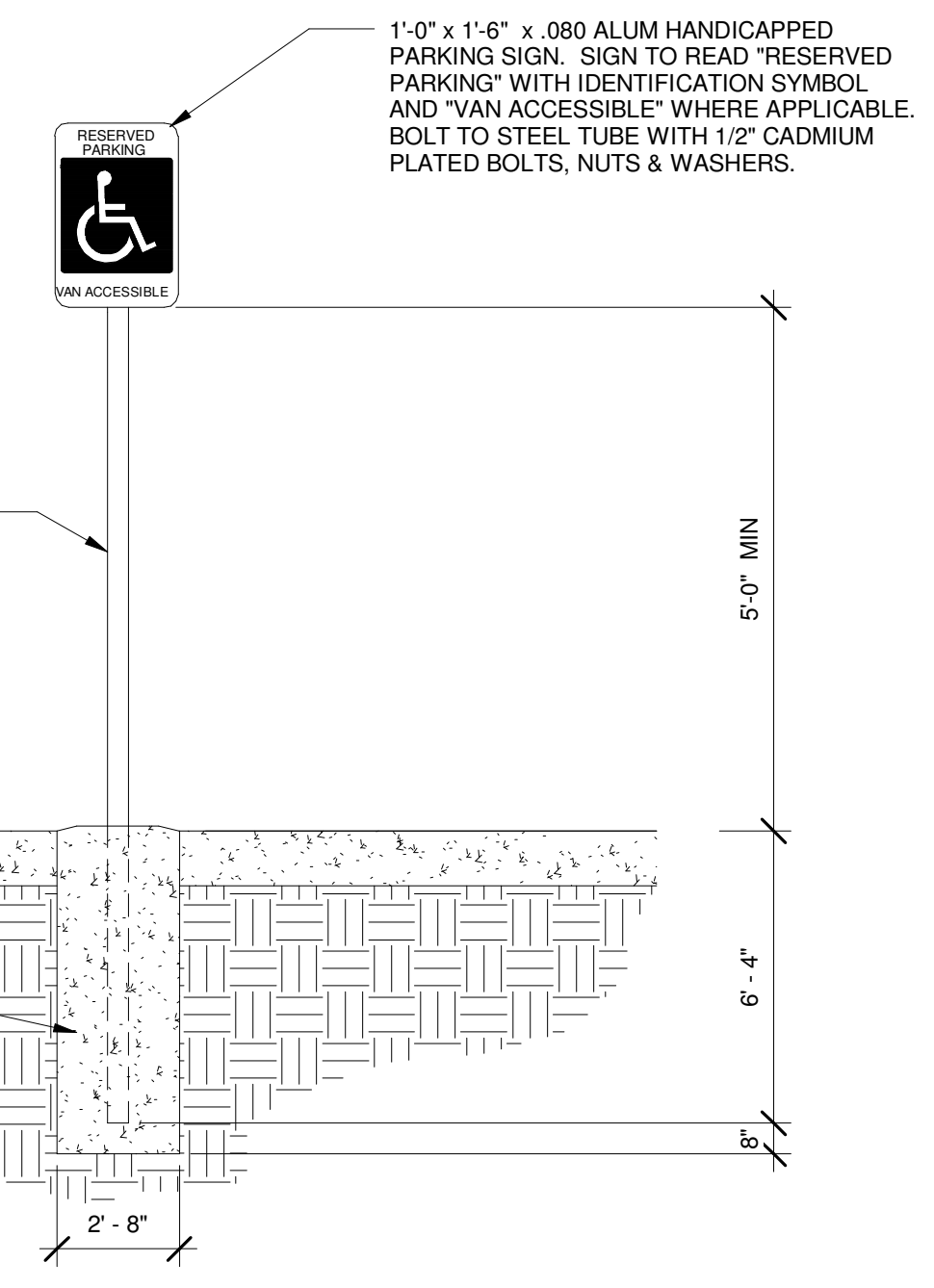
PIPE BOLLARD DETAIL NO SCALE 14



CHAIN LINK FENCE DETAIL 1/2" = 1'-0" 20

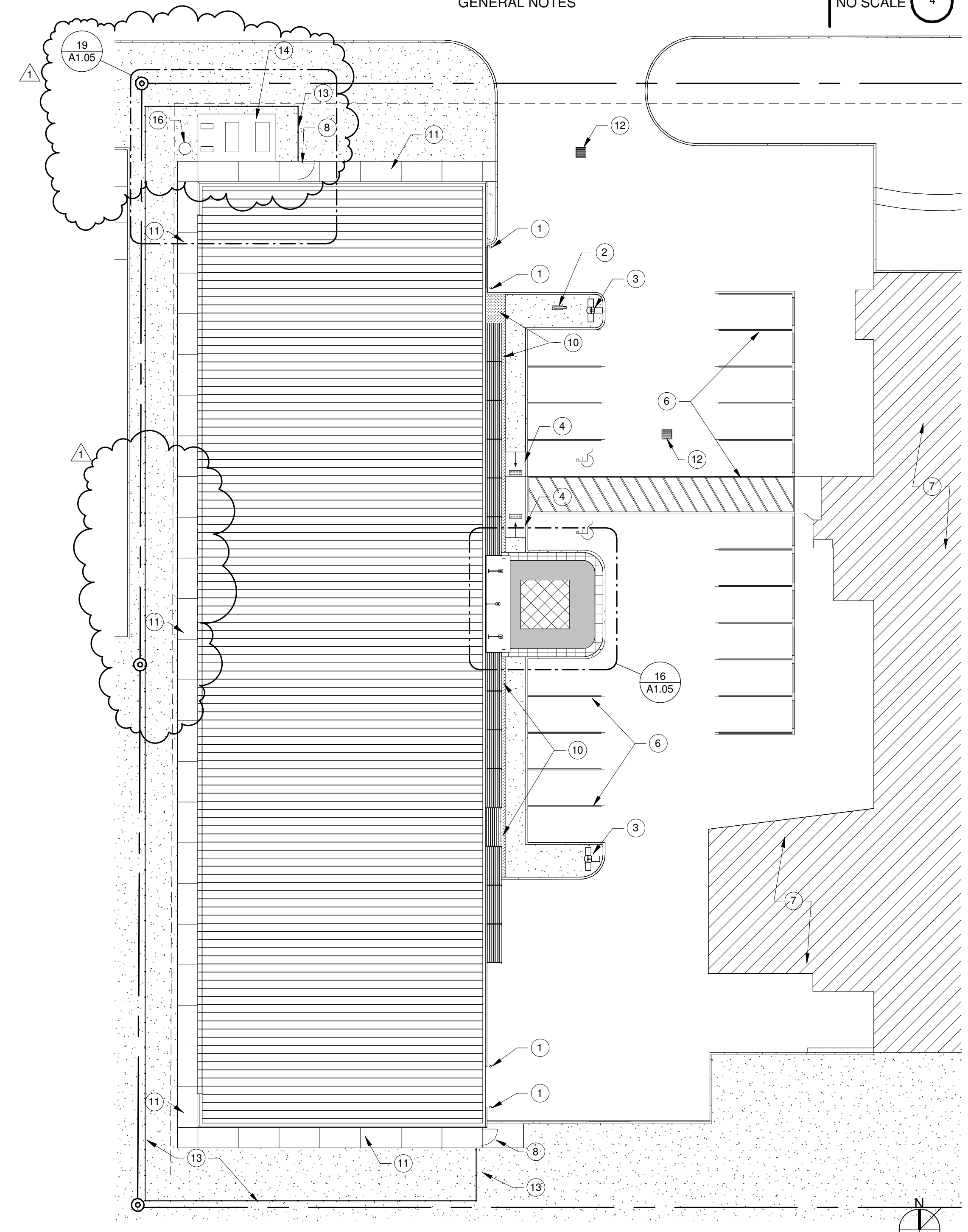


ENLARGED SITE PLAN AT CONC PAD 1/8" = 1'-0" 19

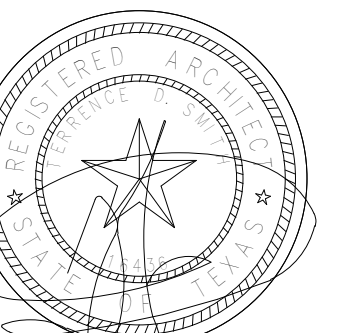


NOTE:  
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE & LOCAL CODES & REGULATIONS AT TIME OF CONSTRUCTION

ADA SITE SIGNAGE NO SCALE 12



ENLARGED SITE PLAN 1" = 20'-0" 1



JULY 22, 2013

Structural Engineer Consultant:

**Garza + McLain**

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Civil Engineer / MEP Engineer Consultant:

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**HOUSTON COMMUNITY COLLEGE**

**HCC ALIEF BISSONNET - WORK FORCE BUILDING**

13803 BISSONNET ST.  
HOUSTON, TEXAS

1	09/05/20	ADDENDUM #01
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NO.	DATE	DESCRIPTION
13		

**BID / PERMIT**

**100% CONSTRUCTION DOCUMENTS**

DATE: JULY 22, 2013

PROJECT NO.: R020213

**LANDSCAPE PLAN**

**A1.10**

- ① NEW STREET TREE - BALD CYPRESS - LARGE TREE (4" CALIPER)
- ② NEW STREET TREE - CEDAR ELM - SMALL TREE (4" CALIPER)
- ③ NEW SHRUBS - DWARF BURFORD HOLLY SHRUB (TOTAL COUNT TO EQUAL 90 SHRUBS)
- ④ NEW LANDSCAPE - ST. AUGUSTINE GRASS
- ⑤ NEW 7'-0" HIGH BLACK VINYL COATED CHAIN LINK FENCE WITH PRIVACY SLATS & RAZOR WIRE ON TOP, RE: 20/A1.05

LANDSCAPE KEY NOTES NO SCALE 20

**CITY OF HOUSTON TREE AND SHRUB ORDINANCE**

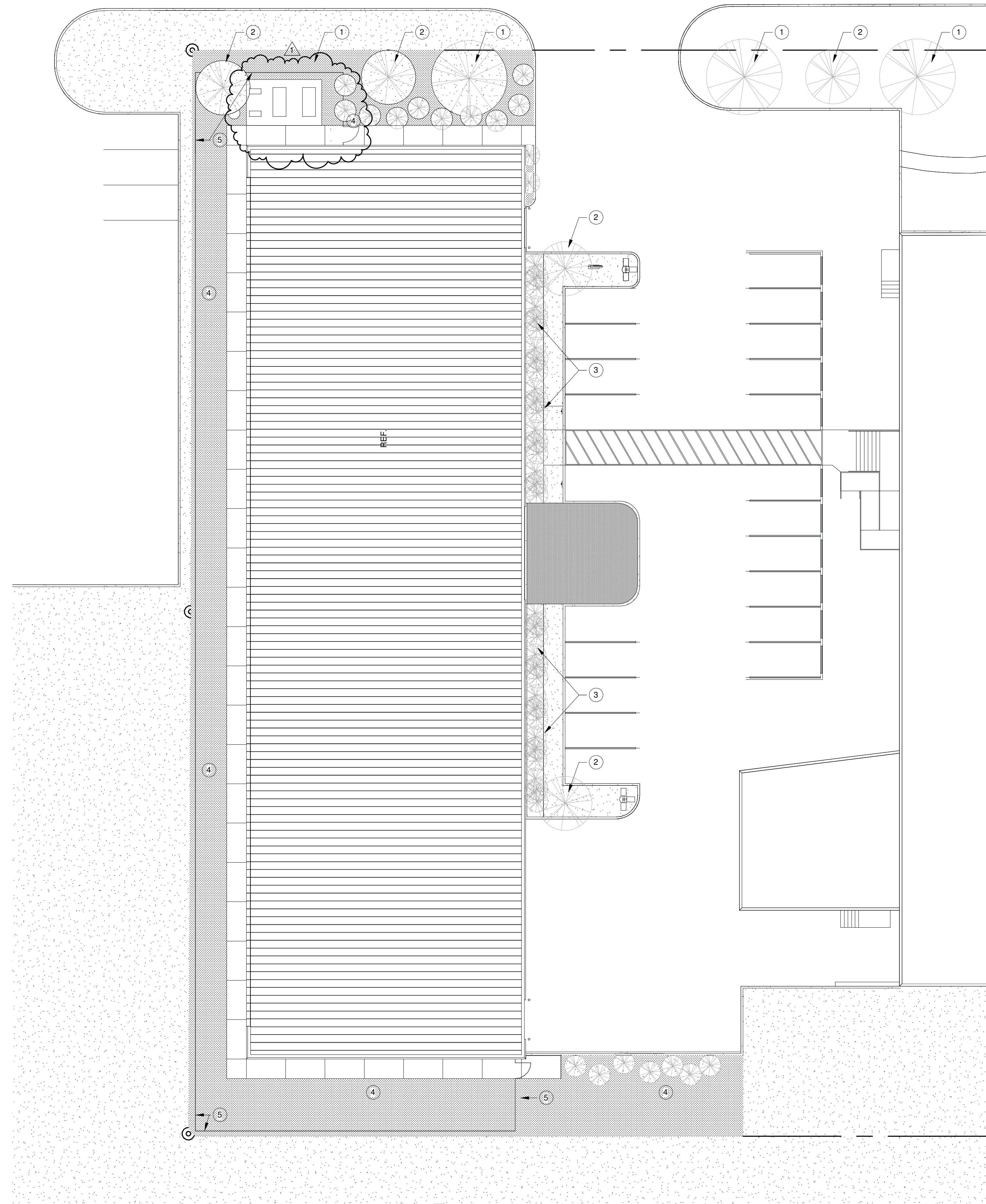
**PARKING LOT TREES**  
REQUIRED: ONE (1) TREE FOR EVERY 10 PARKING SPACES REQUIRED  
@ 22 PARKING SPACES  
22/10 = 3 TREES REQUIRED

**STREET TREES**  
REQUIRED: ONE (1) TREE FOR EVERY 30' OF ROAD FRONTAGE  
@ 180'-0" OF ROAD FRONTAGE  
180/30 = 6 TREES REQUIRED

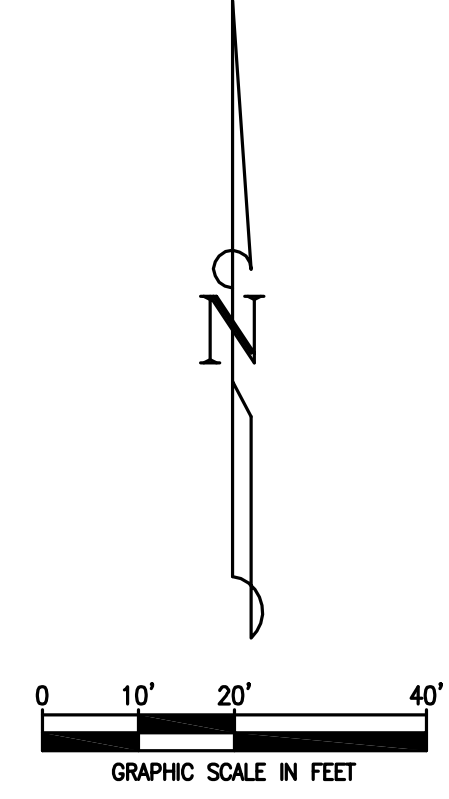
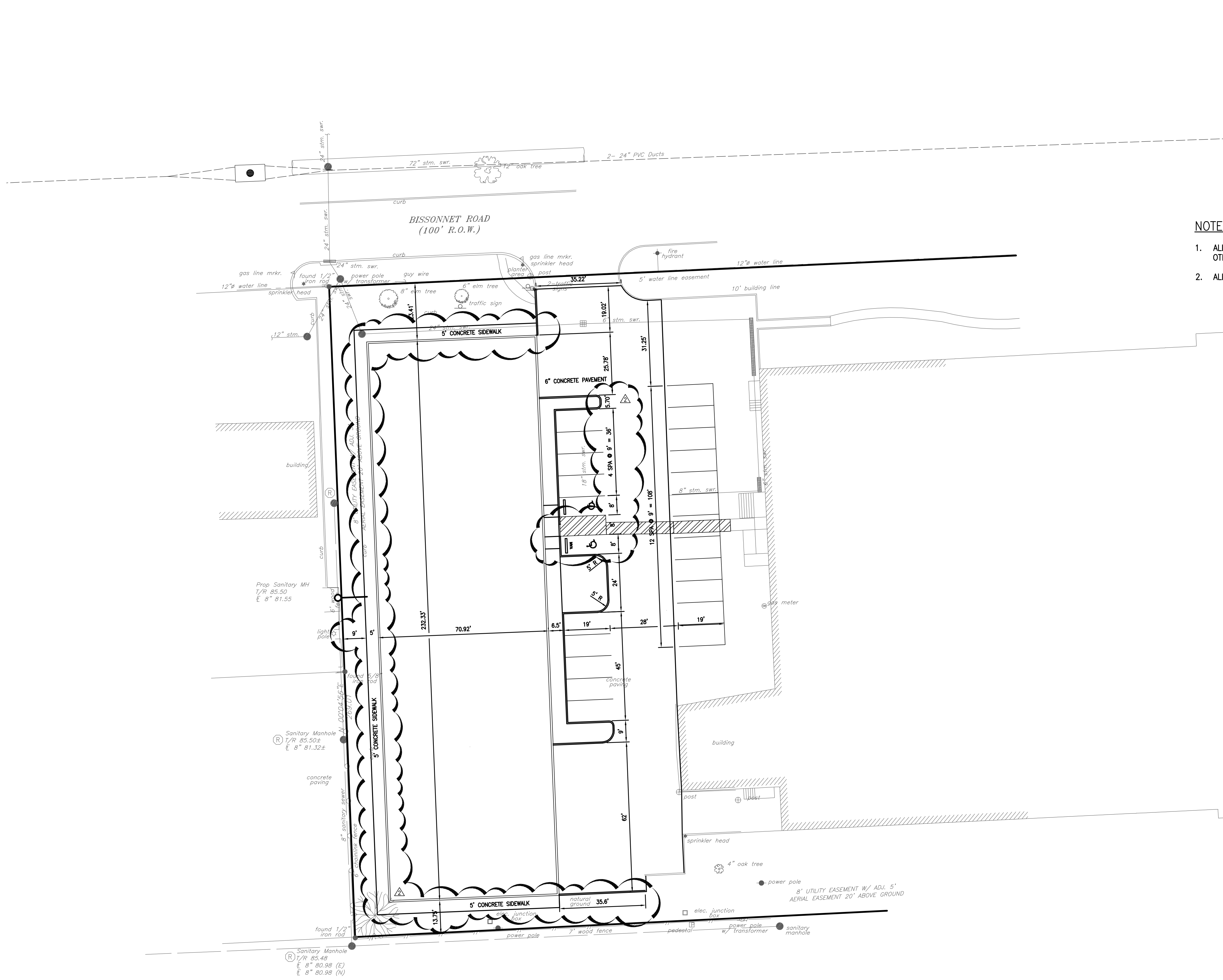
**SHRUBS PARKING**  
REQUIRED: TEN (10) SHRUBS FOR EACH REQUIRED TREES  
3 PARKING LOT TREES + 6 STREET TREES = 9 TREES  
9 x 10 = 90 SHRUBS

75% OF REQUIRED SHRUBS MUST BE AT PERIMETER  
90 x .75 = 68 SHRUBS MUST BE AT PERIMETER

LANDSCAPE REQUIREMENTS NO SCALE 19



LANDSCAPING PLAN. 1/16" = 1'-0" 1



- NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS NOTED OTHERWISE
  2. ALL DIMENSIONS ARE TO OUTSIDE FACE OF WALL AT BUILDING

SMITH & COMPANY  
ARCHITECTS  
1500 MCGOWEN ST. SUITE 150  
HOUSTON, TEXAS 77004  
PHONE: 713-524-4202  
FAX: 713-524-4071  
www.sc-arch.com



SEPTEMBER 5, 2013

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Civil Engineer / MEP Engineer Consultant:

Infrastructure Associates / MEP IT  
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HOUSTON COMMUNITY COLLEGE  
HCC ALIEF BISSONNET - WORK FORCE BUILDING

13803 BISSONNET ST.  
HOUSTON, TEXAS

NO.	DATE	DESCRIPTION

09/05/13	ADDENDUM NO. 1
08/19/13	SHEETS RE-ISSUED

BID / PERMIT  
100% CONSTRUCTION DOCUMENTS

DATE: JULY 22, 2013  
PROJECT NO.: R020213

LAYOUT AND DIMENSION PLAN

**C3.00**

09/05/13 11:27PM lsmc2  
R:\GIS\MapXMC\_Alt\MapX\3.00 Layout Dimension Planning





SEPTEMBER 5, 2013

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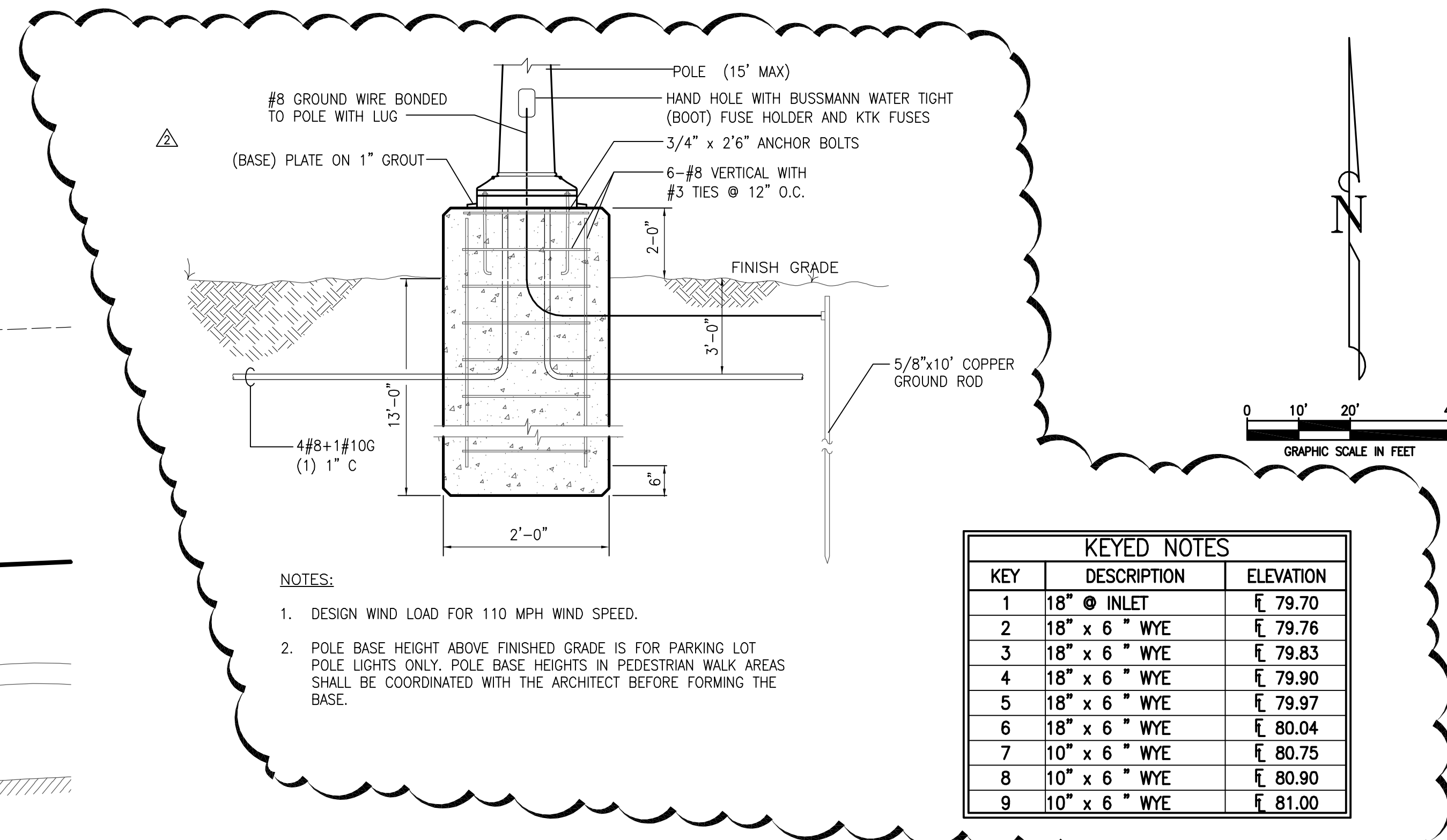
BID / PERMIT

100% CONSTRUCTION  
DOCUMENTS

DATE: JULY 22, 2013  
PROJECT NO.: R020213

UTILITY PLAN

C4.00



- NOTES:
- DESIGN WIND LOAD FOR 110 MPH WIND SPEED.
  - POLE BASE HEIGHT ABOVE FINISHED GRADE IS FOR PARKING LOT POLE LIGHTS ONLY. POLE BASE HEIGHTS IN PEDESTRIAN WALK AREAS SHALL BE COORDINATED WITH THE ARCHITECT BEFORE FORMING THE BASE.

KEY	DESCRIPTION	ELEVATION
1	18" Ø INLET	℄ 79.70
2	18" x 6" WYE	℄ 79.76
3	18" x 6" WYE	℄ 79.83
4	18" x 6" WYE	℄ 79.90
5	18" x 6" WYE	℄ 79.97
6	18" x 6" WYE	℄ 80.04
7	10" x 6" WYE	℄ 80.75
8	10" x 6" WYE	℄ 80.90
9	10" x 6" WYE	℄ 81.00

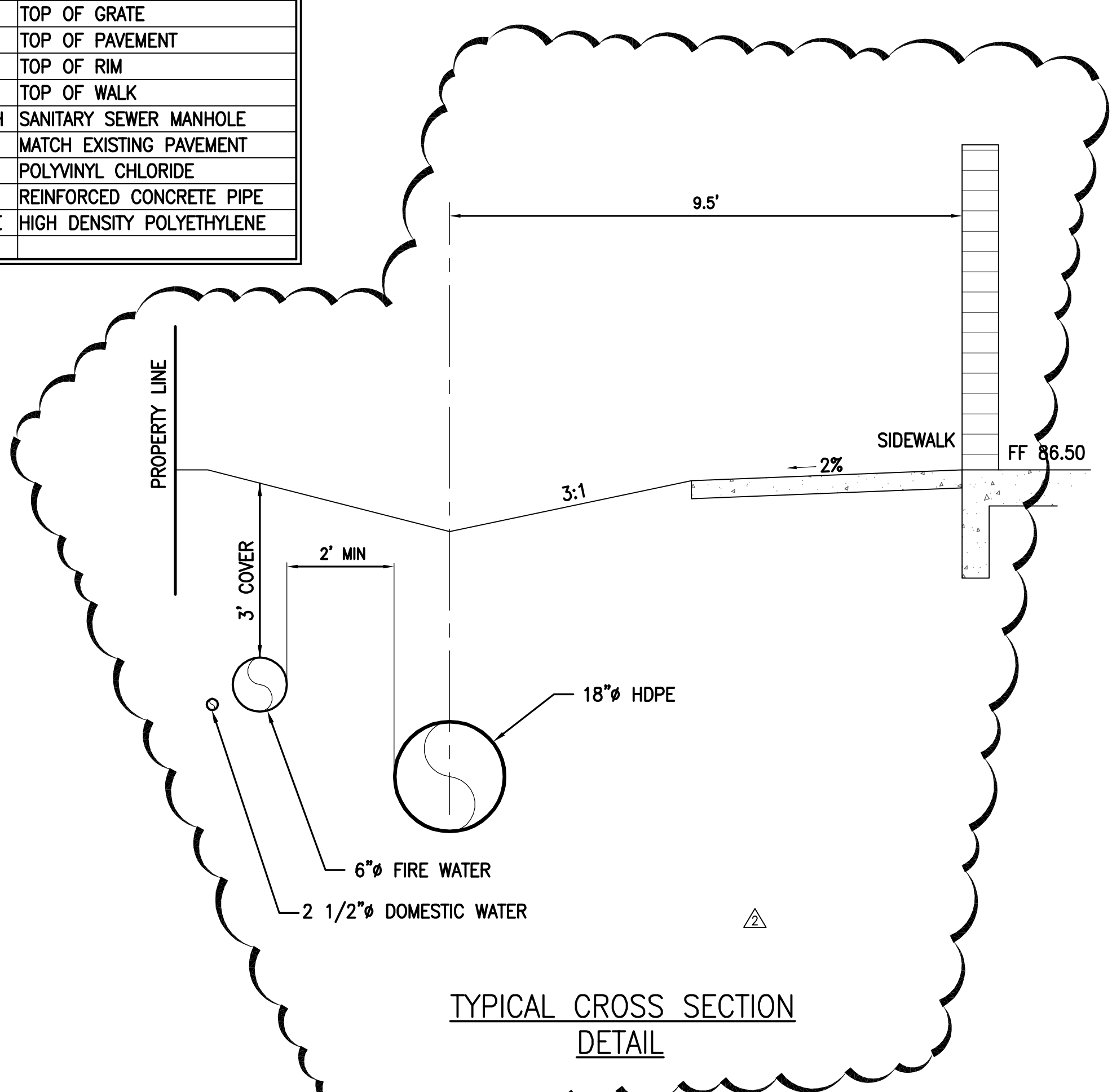
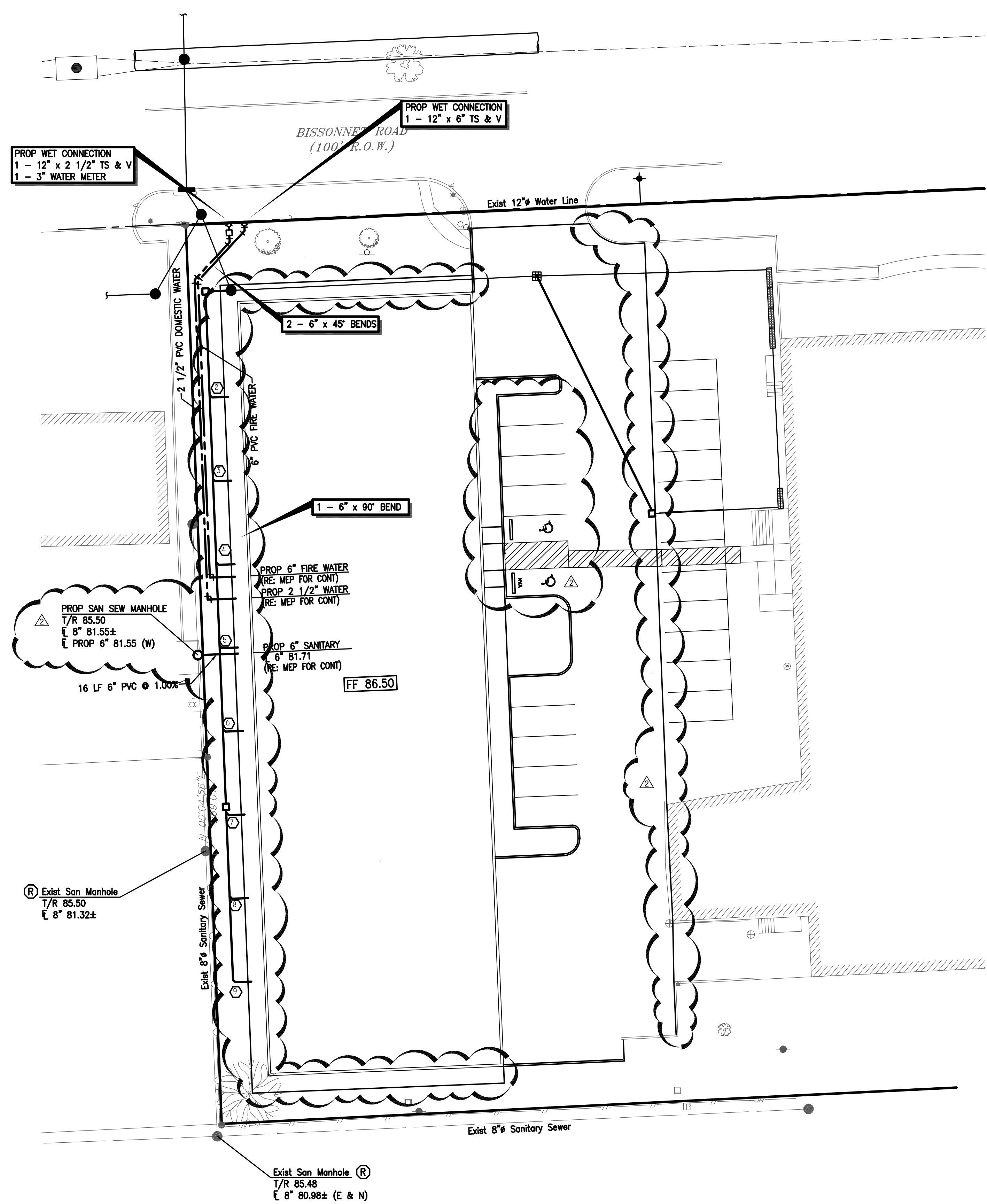
- NOTES:
- ALL 6" WATER LINE PIPING SHALL BE C-900 PVC DR 18.
  - ALL 6" SANITARY SEWER PIPE SHALL BE 6" PVC SCH 40.
  - ALL PROPOSED DOWNSPOUTS CONNECT TO STORM SEWER.

PROJECT BM:  
Floodplain Reference Mark RM 040540 is an ALUMINUM ROD located at the intersection of Hemlock Hill Drive as it dead ends at Renn Road. Located in the median, north of the intersection, 6' (six feet) north of the south median nose.  
Elevation = 84.61 Feet NAVD 1988, 2001 Adjustment

TBM: A  
"BOX" CUT IN CONCRETE on the west side of the concrete light pole base near the south boundary of subject tract.  
Elevation = 85.70 Feet, NAVD 1988, 2001 Adjustment.

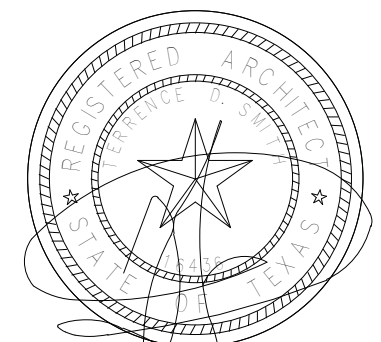
RENN ROAD MUD OPERATOR  
SEVERN TRENT, GARY SCHOENER  
281.578.4242  
FOR TAP & INSPECTION FEES

ABBREVIATIONS	
FF	FINISHED FLOOR
FD	FLOOR DRAIN
FG	FINISHED GROUND
℄	FLOWLINE
LF	LINEAR FEET
T/C	TOP OF CURB
T/G	TOP OF GRATE
T/P	TOP OF PAVEMENT
T/R	TOP OF RIM
T/W	TOP OF WALK
SSMH	SANITARY SEWER MANHOLE
MEP	MATCH EXISTING PAVEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
HDPE	HIGH DENSITY POLYETHYLENE



SEP 26 2013 11:17PM Lsmc2  
R:\GIS\Projects\Arch\080213\00 Utility Plan.dwg





JULY 22, 2013

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**HOUSTON COMMUNITY COLLEGE**

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NO.	DATE	DESCRIPTION
1	09/05/20	ADDENDUM #01
	13	

**BID / PERMIT**

100% CONSTRUCTION DOCUMENTS

DATE: JULY 22, 2013  
PROJECT NO.: R020213

FLOOR PLAN - AREA "A" & "B"

**A2.01**

- 1 9'-0" HIGH CHAIN LINK FENCE W/ 4'-0 x 9'-0" CHAIN LINK GATE
- 2 3'-0" x 3'-0" CONC PIT WITH REMOVABLE STL COVER PLATES, RE: STRUCT
- 3 6" PIPE BOLLARD PAINTED, RE 16/A1.00
- 4 NOT USED
- 5 LINE OF OVERHEAD SUN SHADE CANOPY ABOVE
- 6 LINE OF OVERHEAD ENTRY CANOPY ABOVE
- 7 FRP CORNER GUARD

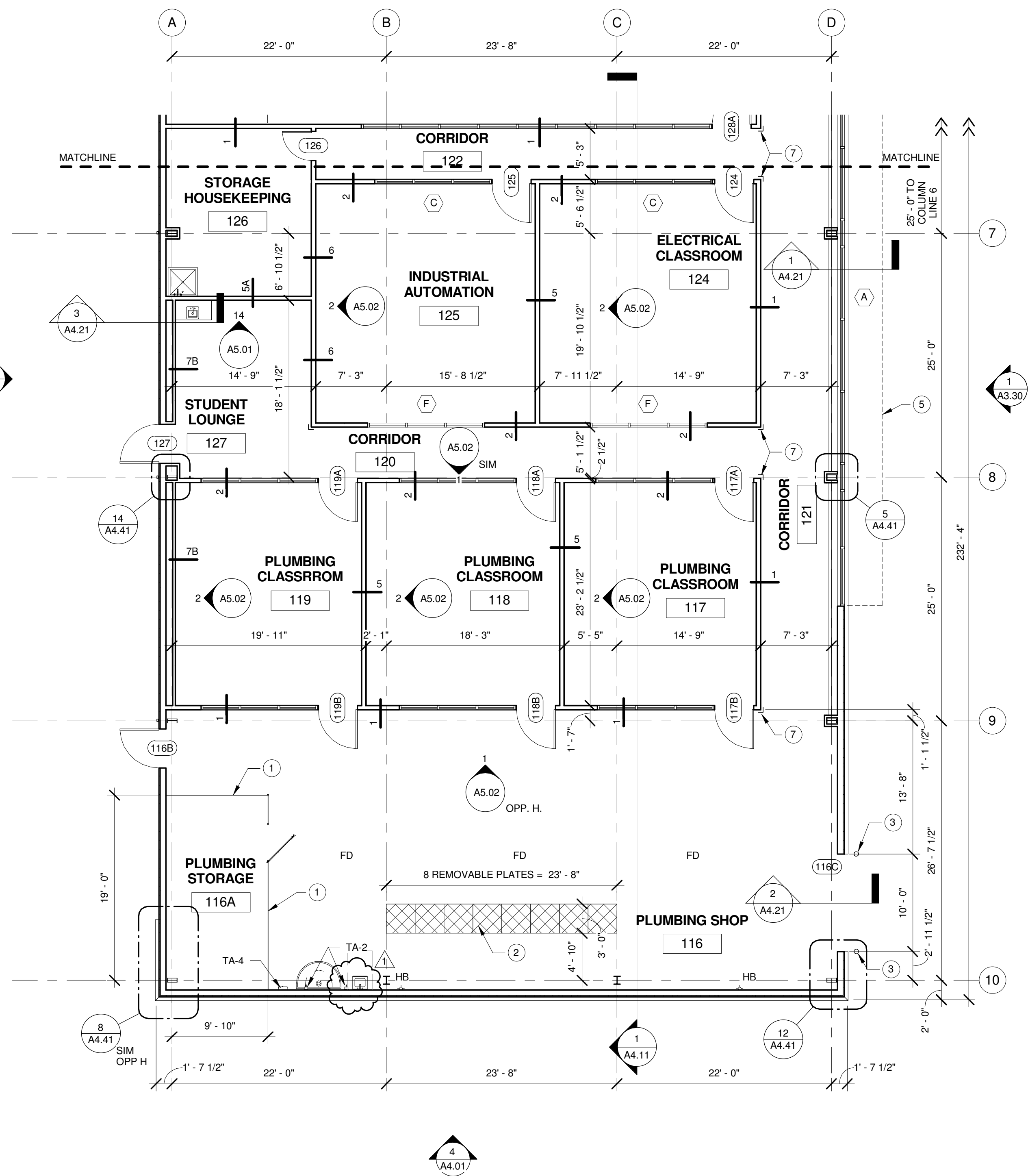
KEY NOTES

NO SCALE 29

- 1 REFER SHEET A3.00 FOR PARTITION SCHEDULE
- 2 REFER SHEET A3.20 FOR DOOR SCHEDULE
- 3 REFER MECHANICAL DRAWINGS MECHANICAL REQUIREMENTS
- 4 REFER ELECTRICAL DRAWINGS ELECTRICAL REQUIREMENTS
- 5 REFER PLUMBING DRAWINGS PLUMBING REQUIREMENTS
- 6 REFER SHEET A3.10 FOR FINISH SCHEDULE
- 7 REFER SHEET A3.30 FOR WINDOW TYPES
- 8 ALL COLUMNS SHALL BE UNIFORM IN DEPTH (NO TAPER)

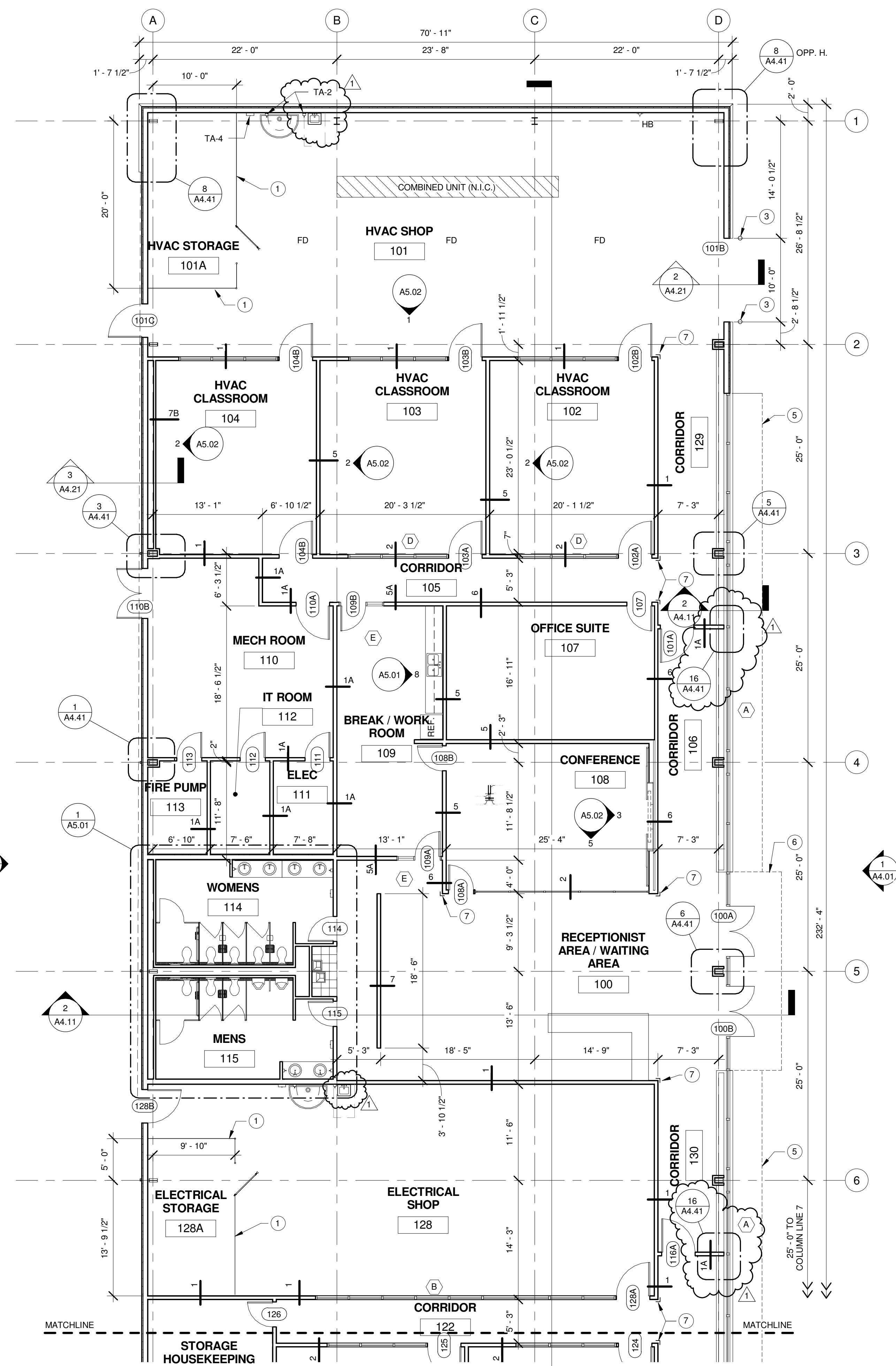
GENERAL NOTES

NO SCALE 17



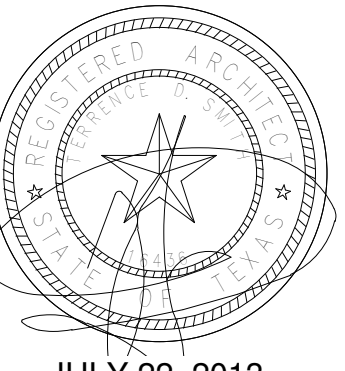
PARTIAL FLOOR PLAN - AREA "B"

1/8" = 1'-0" 13



PARTIAL FLOOR PLAN - AREA "A"

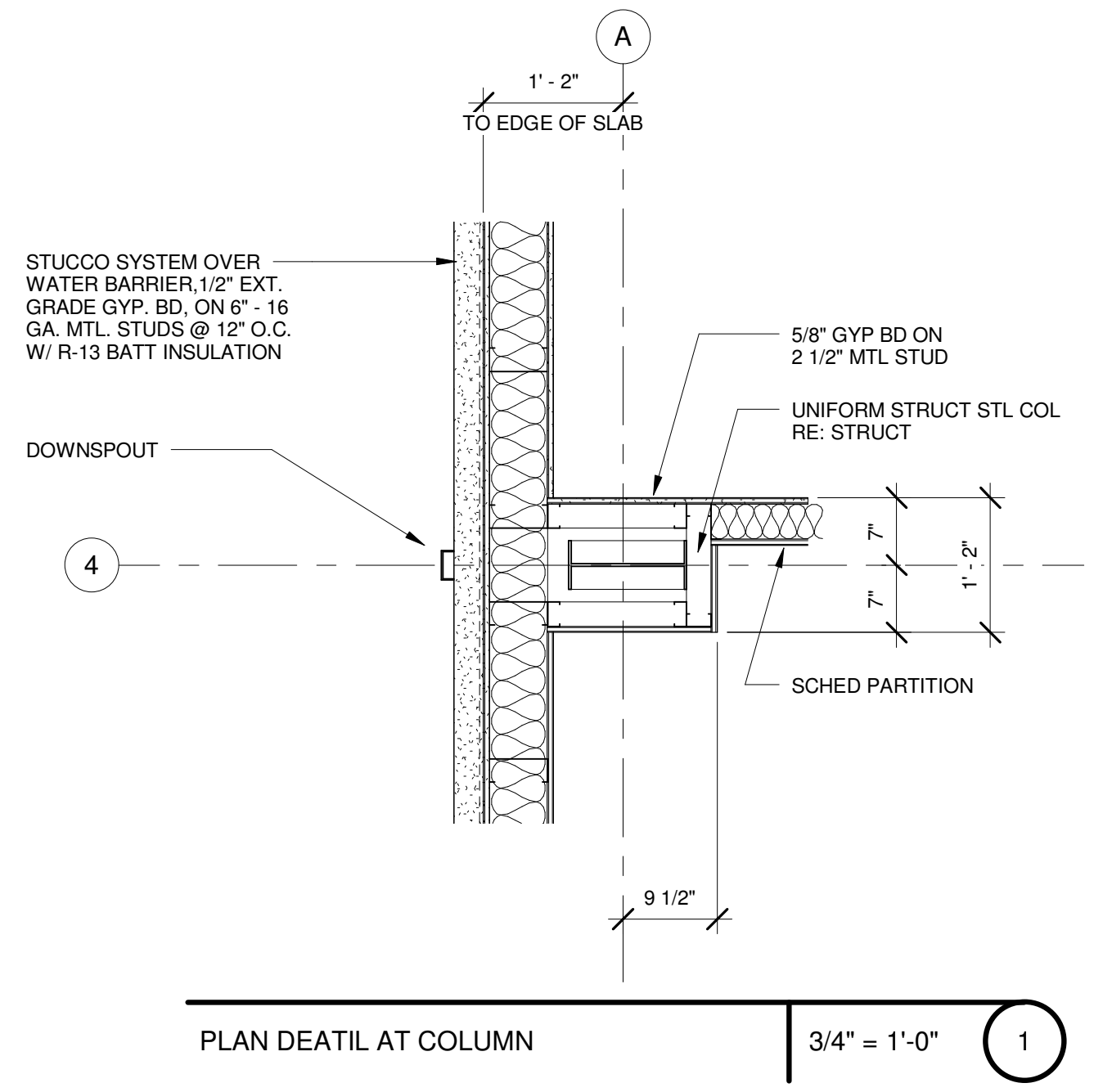
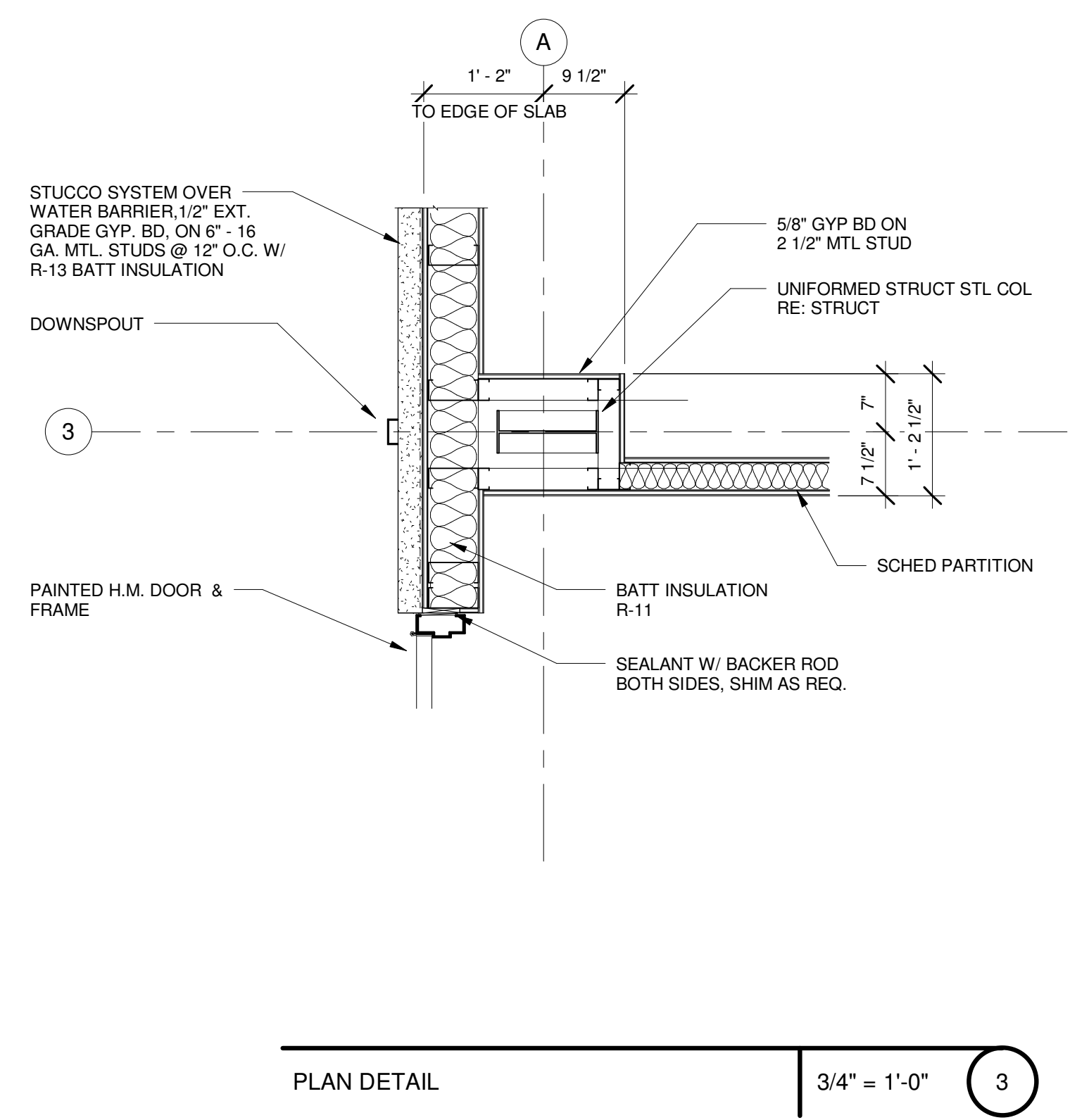
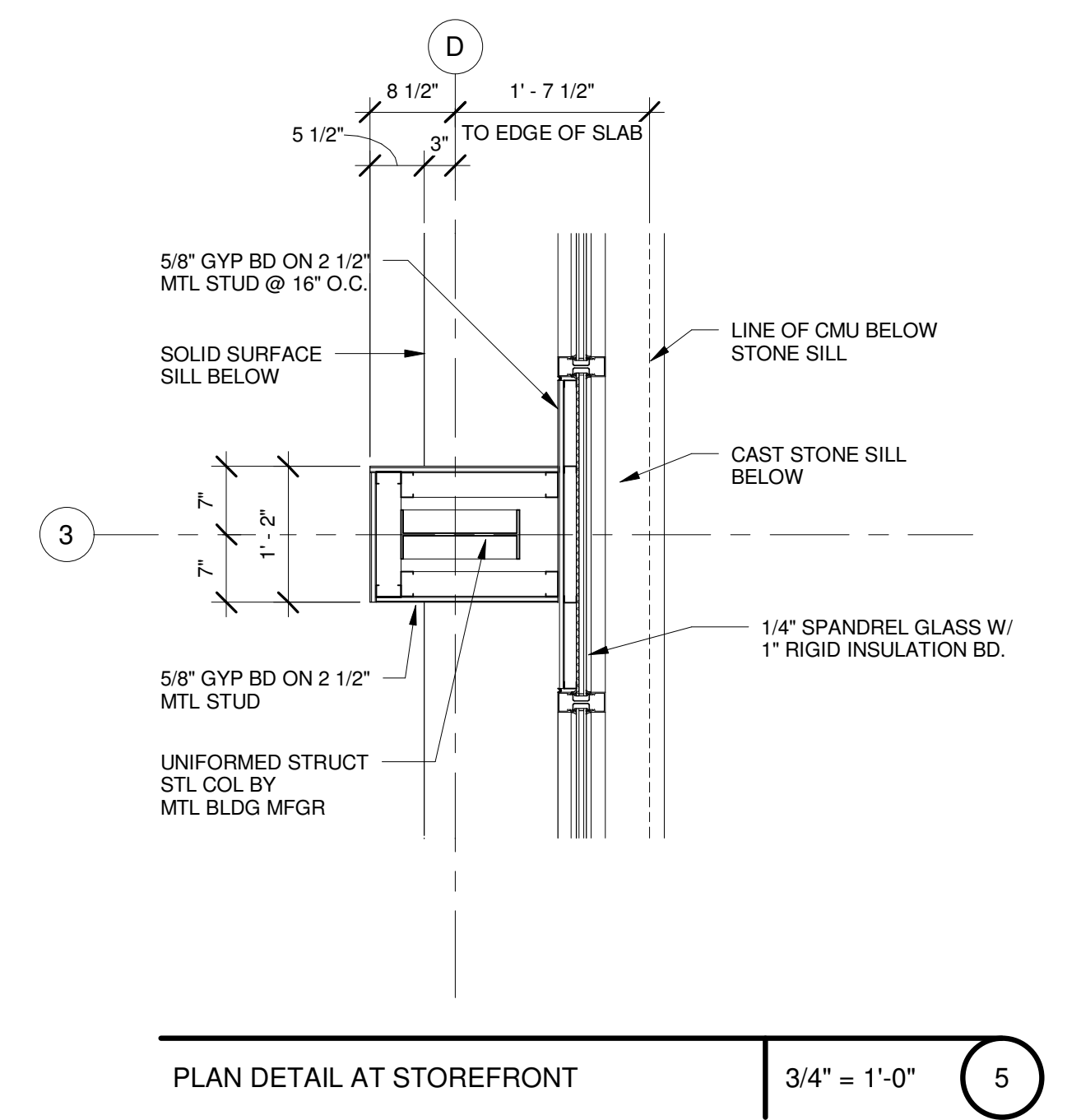
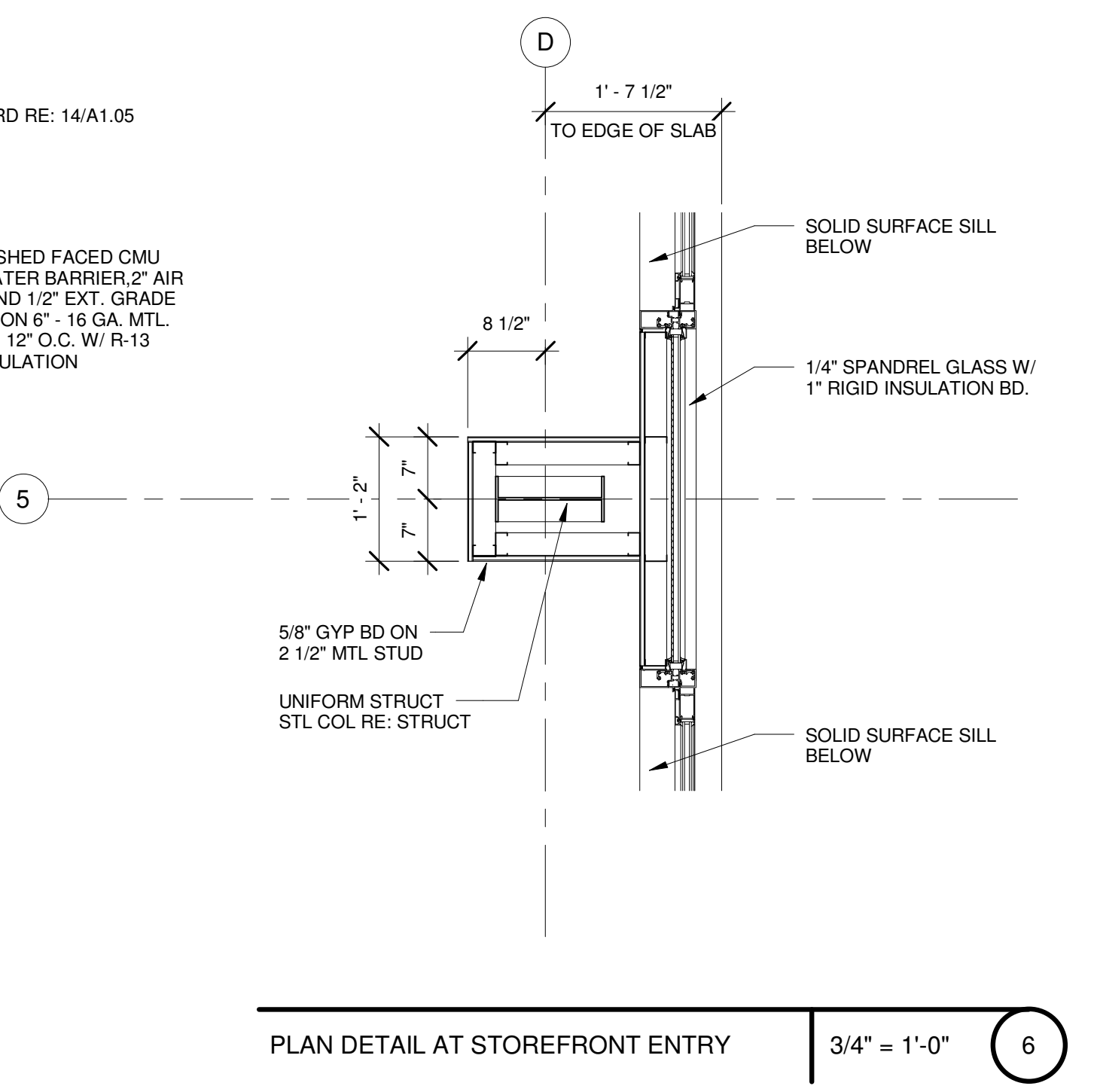
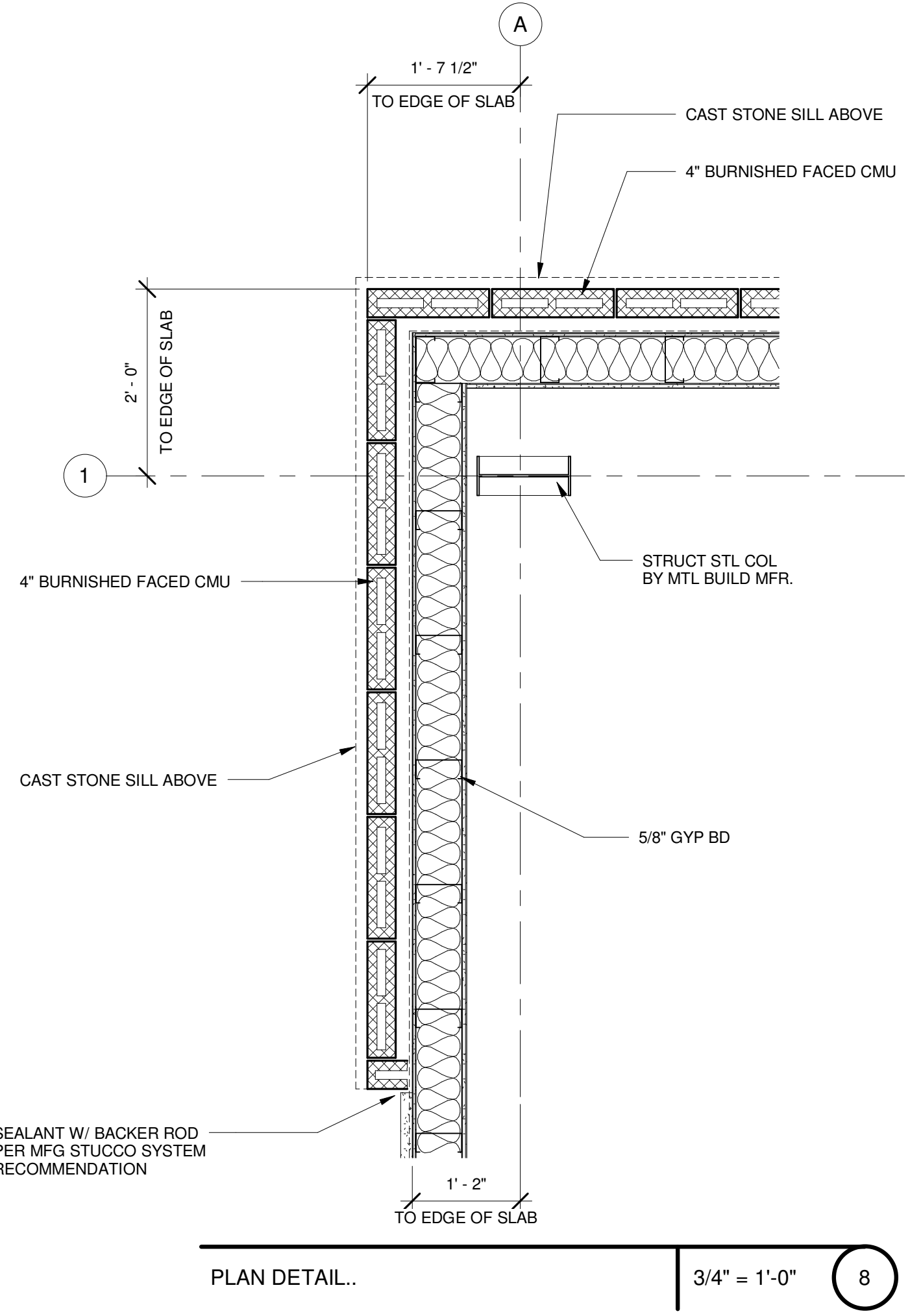
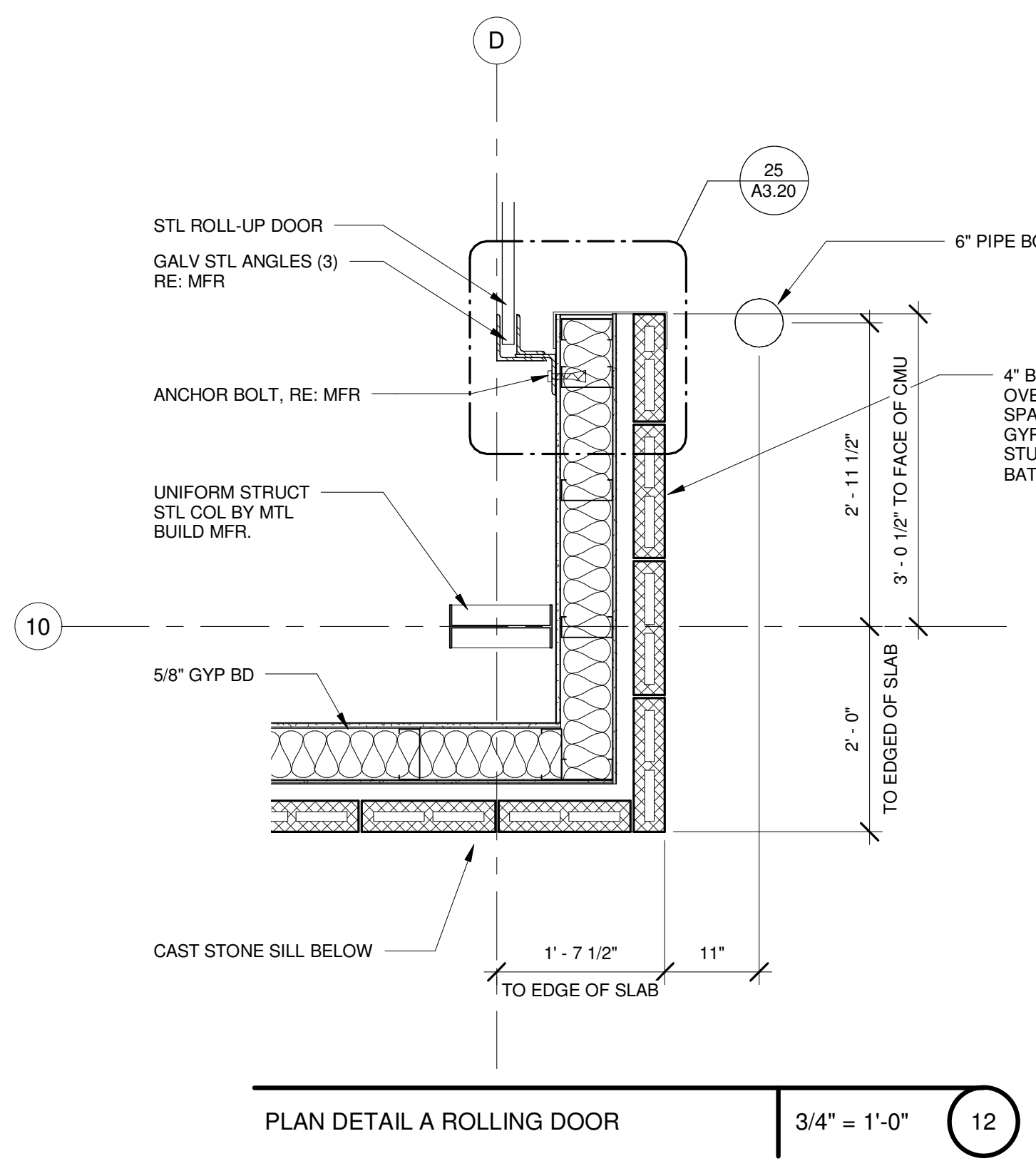
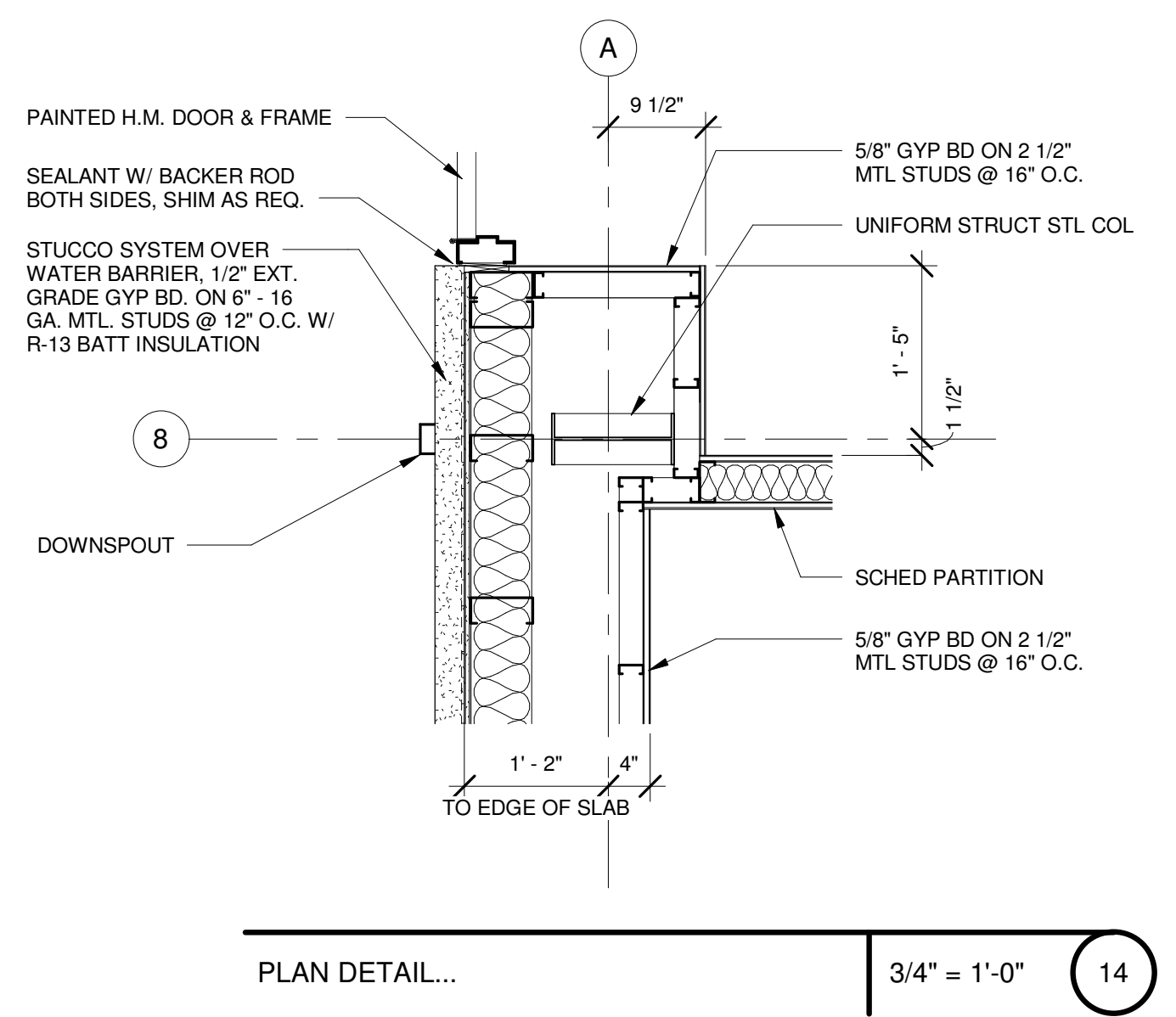
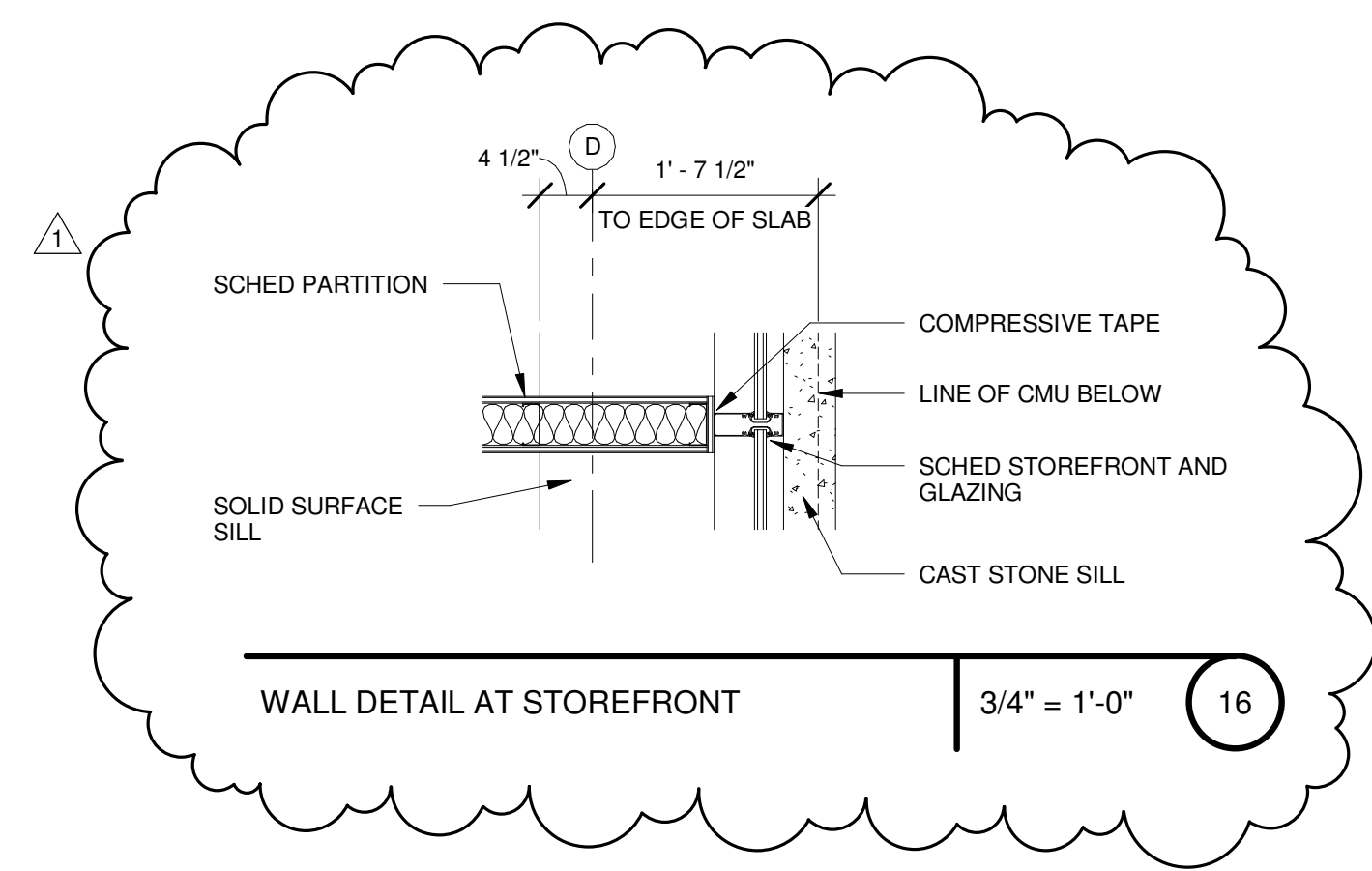
1/8" = 1'-0" 1



JULY 22, 2013

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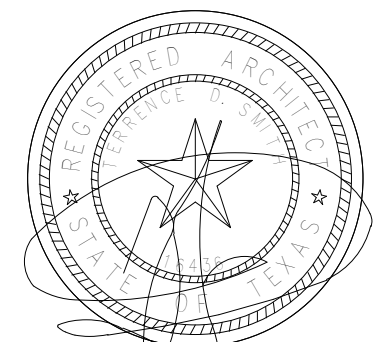
NO.	DATE	DESCRIPTION
1	09/05/2013	ADDENDUM #01

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DATE: JULY 22, 2013  
PROJECT NO.: R020213

**PLAN DETAILS**

**A4.41**



JULY 22, 2013

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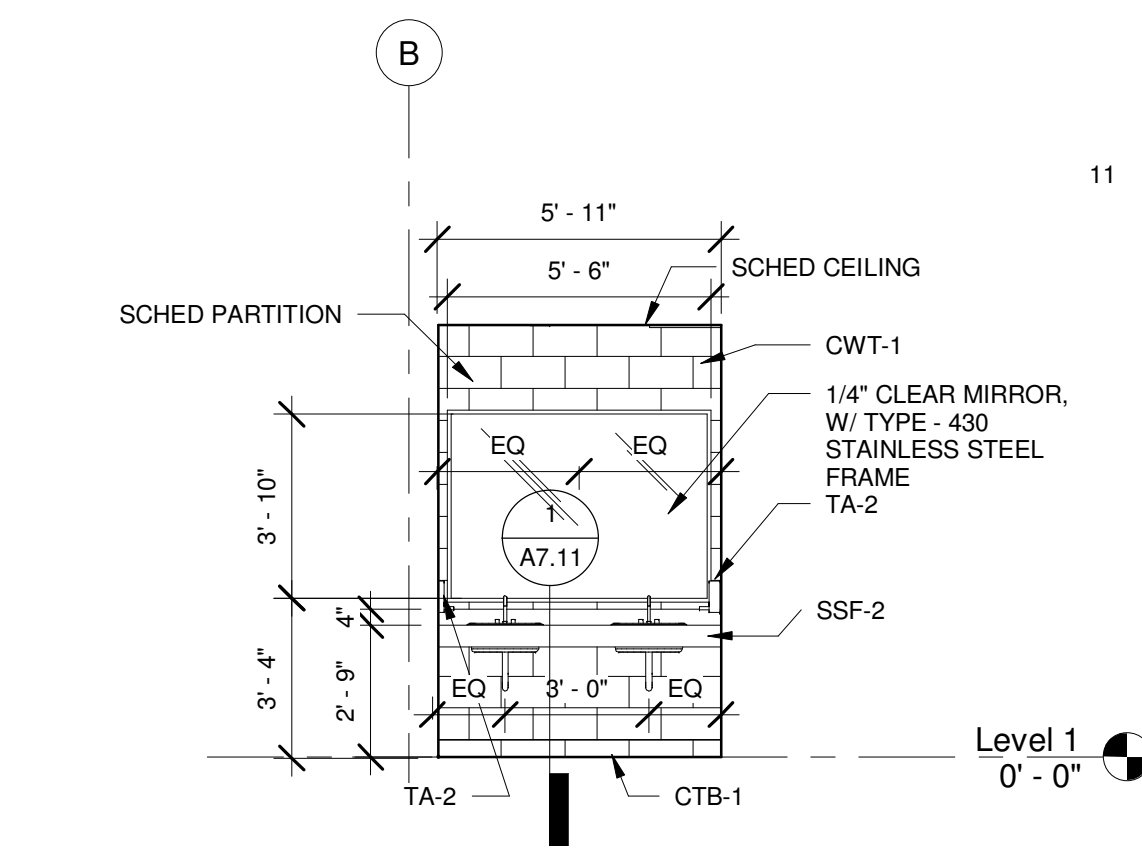
**HOUSTON COMMUNITY COLLEGE**

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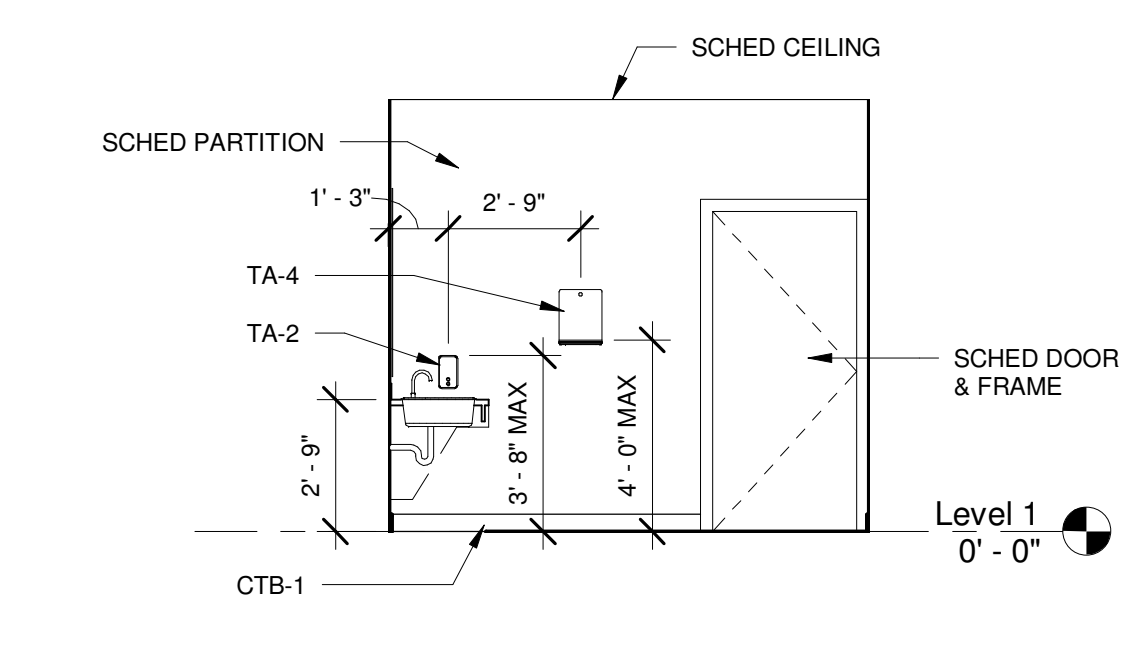
13803 BISSONNET ST.  
HOUSTON, TEXAS

- TA-1 48" GRAB BAR - BOBRICK #B-6806
- TA-2 SURFACE MOUNTED SOAP DISPENSER - BOBRICK #B-2112
- TA-3 SURFACE MOUNTED TOILET TISSUE DISPENSER - KIMBERLY CLARK #09601
- TA-4 HAND TOWEL DISPENSER - KIMBERLY CLARK #09991
- TA-5 TRASH CAN - RUBBERMAID FG354000GRAY
- TA-6 SURFACE MOUNTED SANITARY NAPKIN DISPENSER - BOBRICK B-270
- TA-7 TOILET SEAT COVER DISPENSER - KIMBERLY CLARK

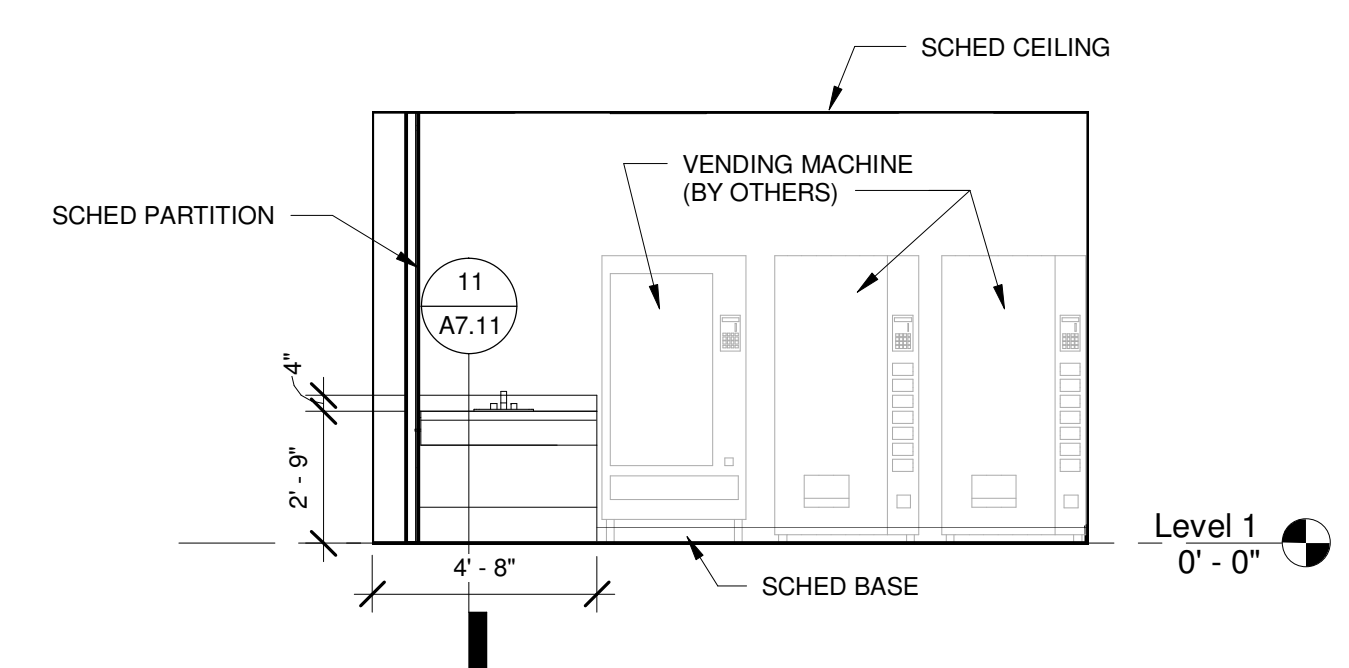
TOILET ROOM ACCESSORY SCHEDULE | NO SCALE | 15



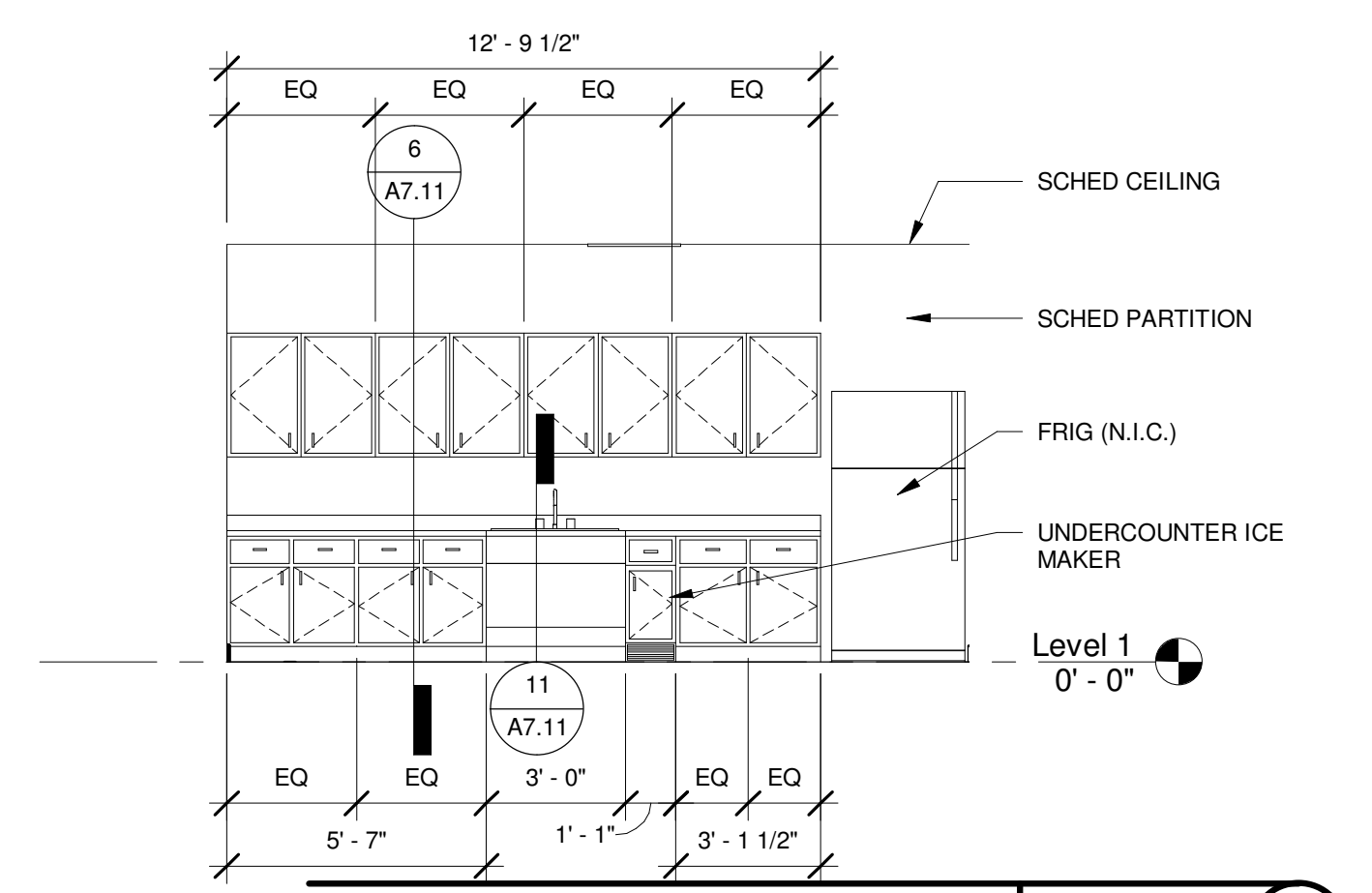
INTERIOR ELEVATION MENS.. | 1/4" = 1'-0" | 10



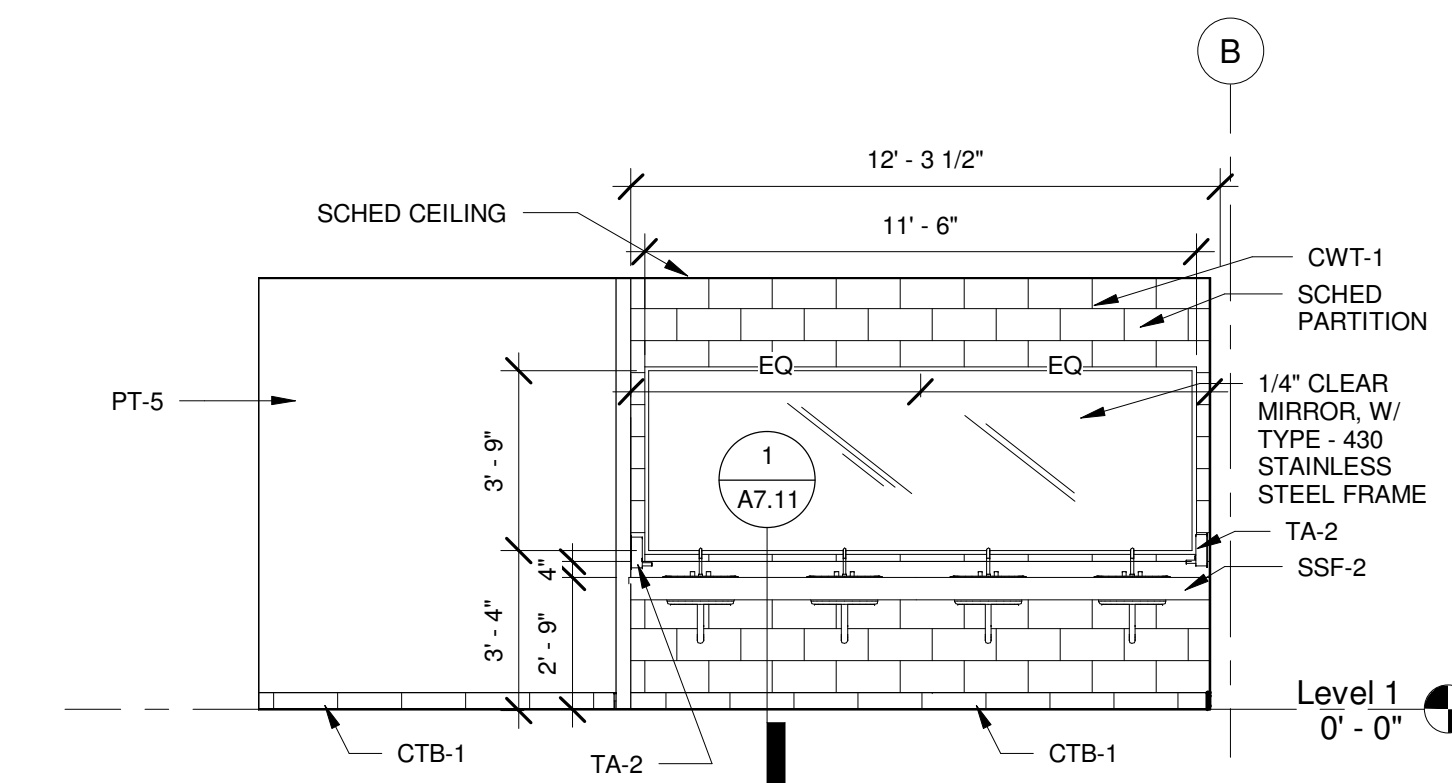
INTERIOR ELEVATION WOMENS. | 1/4" = 1'-0" | 5



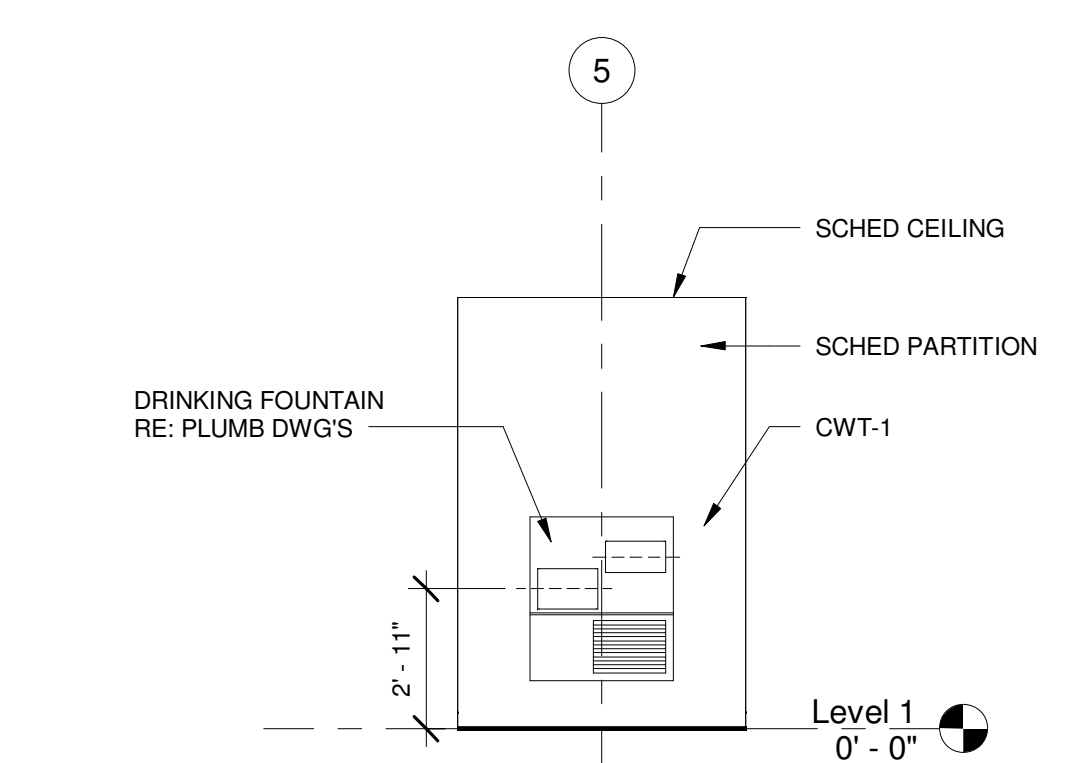
INTERIOR ELEVATION @ STUDENT LOUNGE | 1/4" = 1'-0" | 14



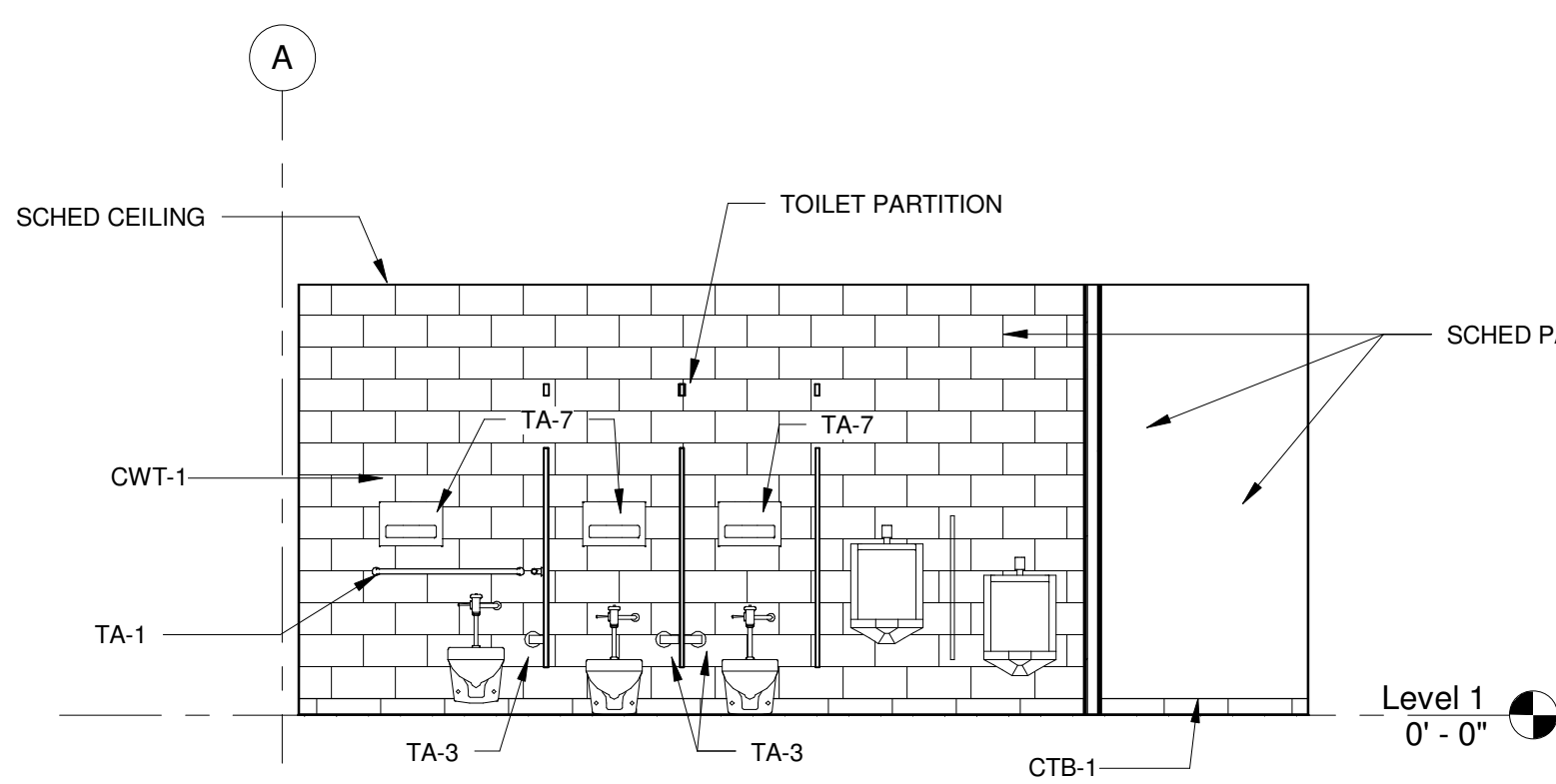
INTERIOR ELEVATION AT BREAK ROOM | 1/4" = 1'-0" | 8



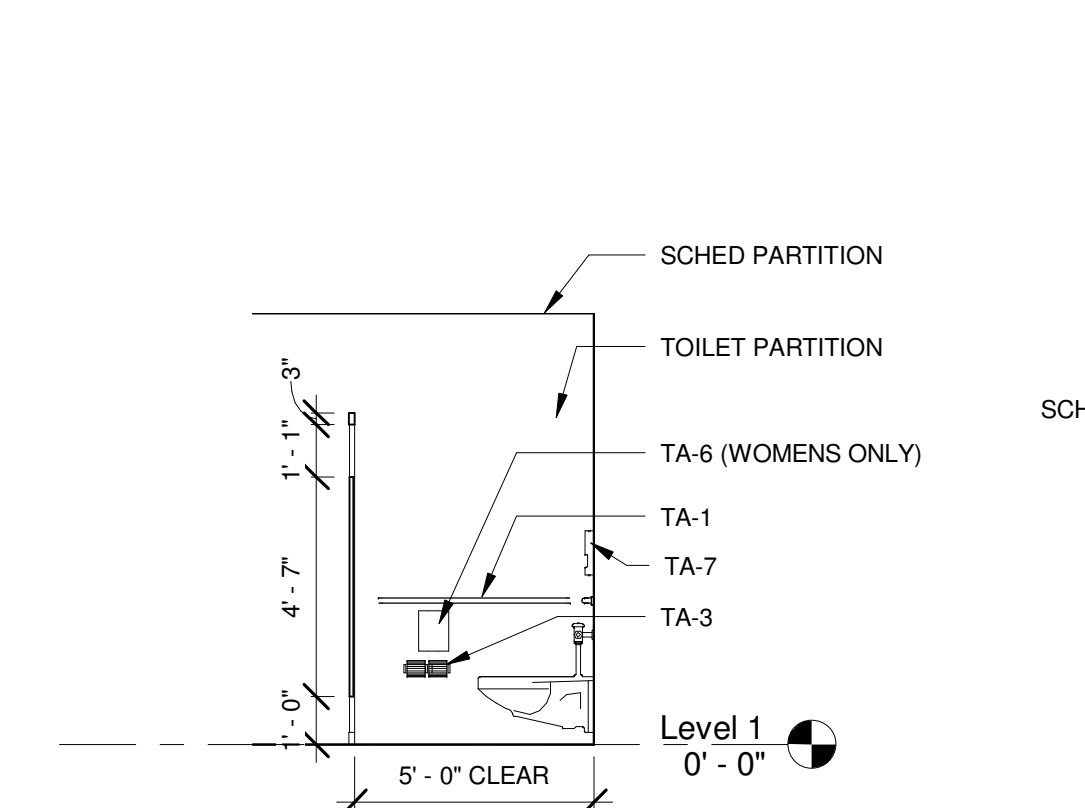
INTERIOR ELEVATION WOMENS | 1/4" = 1'-0" | 4



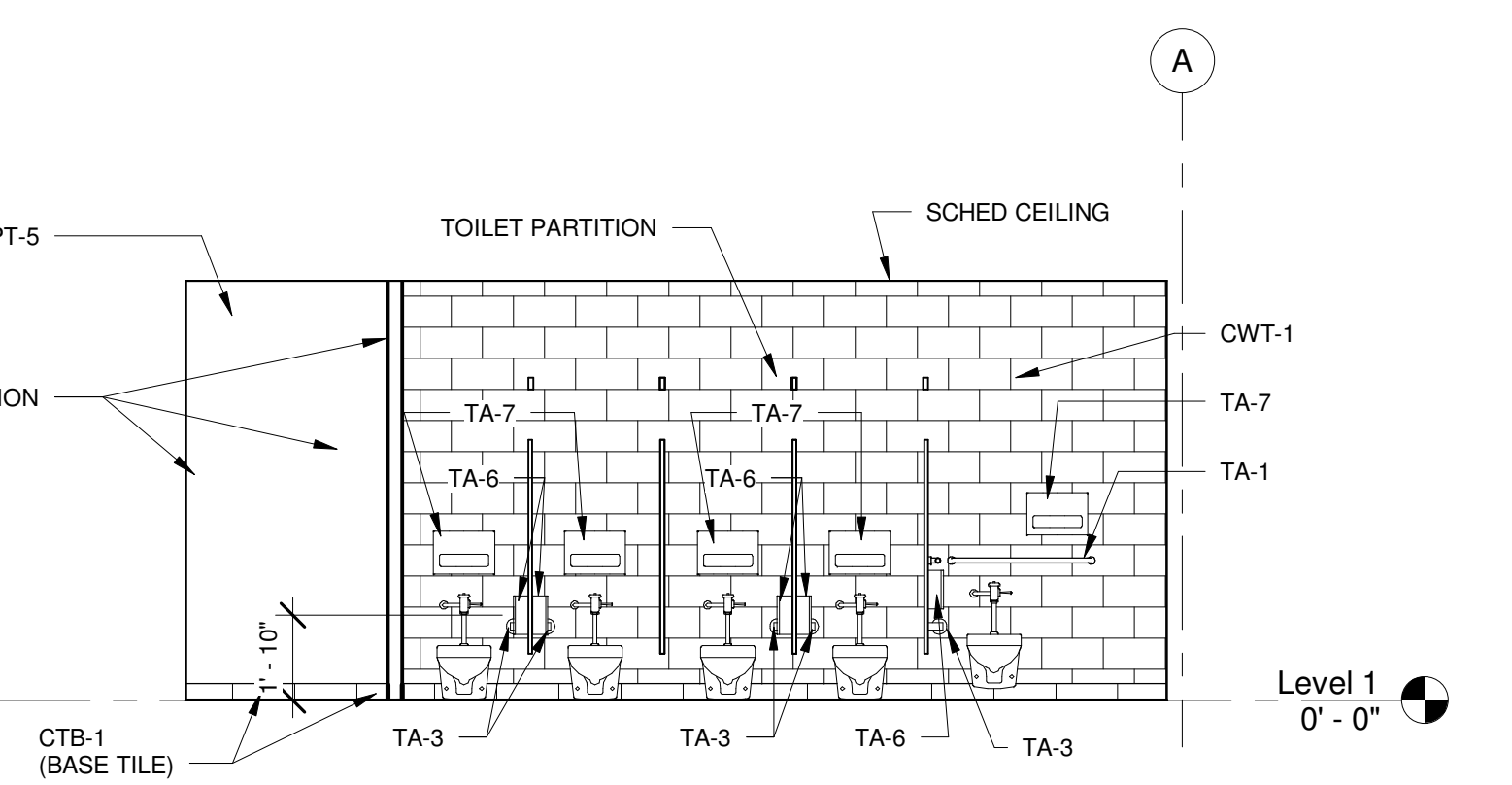
INTERIOR ELEVATION AT FOUNTAIN | 1/4" = 1'-0" | 13



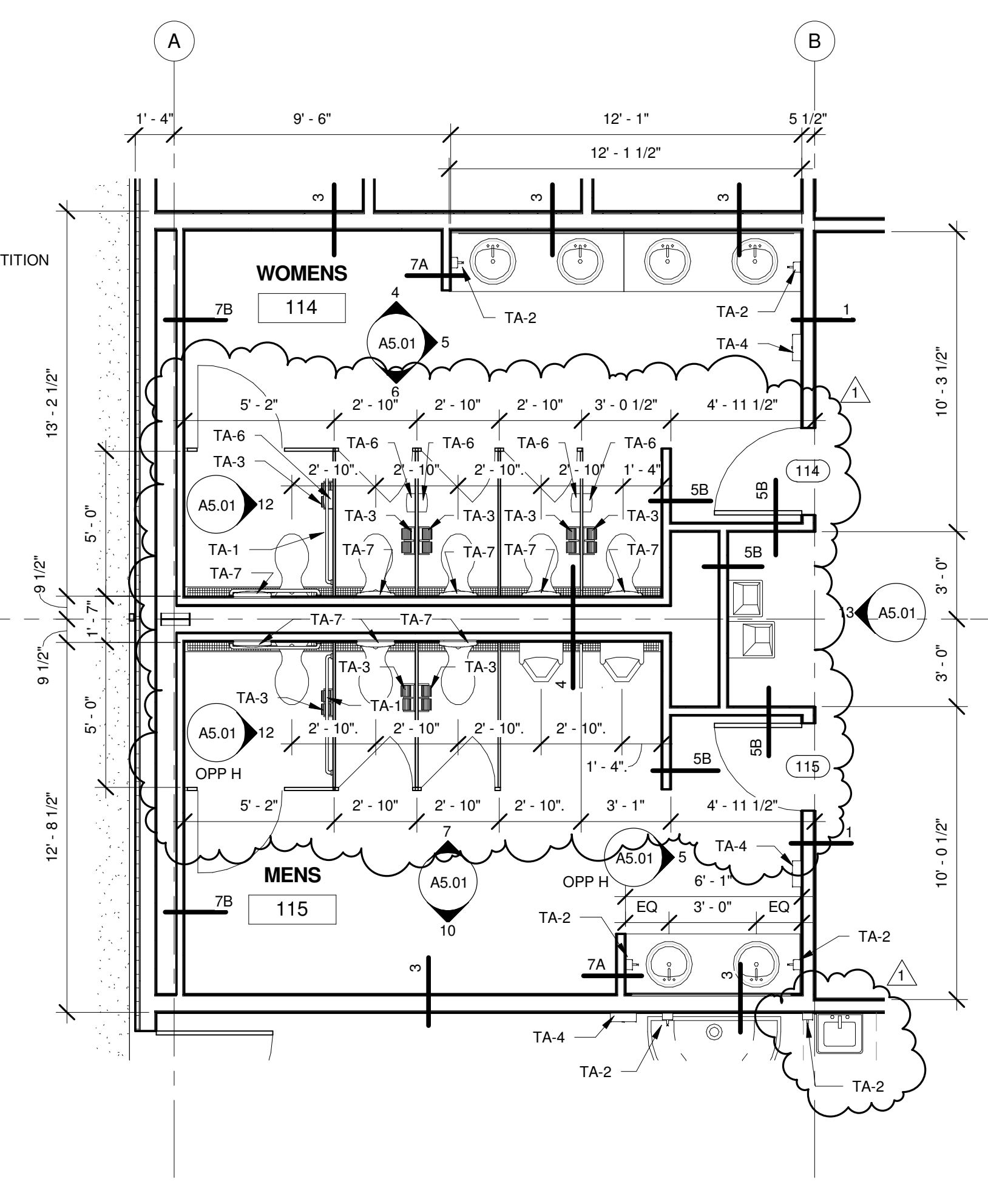
INTERIOR ELEVATION MENS. | 1/4" = 1'-0" | 7



INTERIOR ELEVATION. | 1/4" = 1'-0" | 12



INTERIOR ELEVATION WOMENS.. | 1/4" = 1'-0" | 6



ENLARGED RESTROOM PLAN | 1/4" = 1'-0" | 1


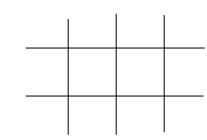

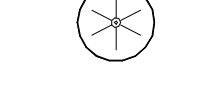
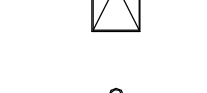
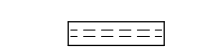
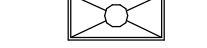

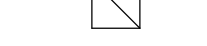


NO.	DATE	DESCRIPTION
1	09/05/20	ADDENDUM #01
	13	

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DATE: JULY 22, 2013  
PROJECT NO.: R020213

**ENLARGED PLANS & INTERIOR ELEVATIONS**

**A5.01**

-  PAINTED GYP BD CEILING
-  2x2 LAY-IN CEILING
-  EXTERIOR WALL PACK FIXTURE
-  PENDENT HUNG LIGHT FIXTURE
-  2x2 CEILING ACCESS PANEL
-  8" CAN LIGHT FIXTURE
-  1x4 FLUORESCENT FIXTURE
-  2x4 FLUORESCENT FIXTURE
-  SUPPLY AIR GRILL
-  RETURN AIR GRILL
-  PENDENT FLUORESCENT FIXTURE

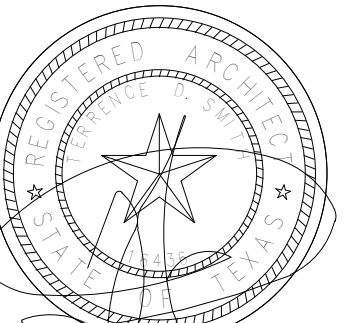
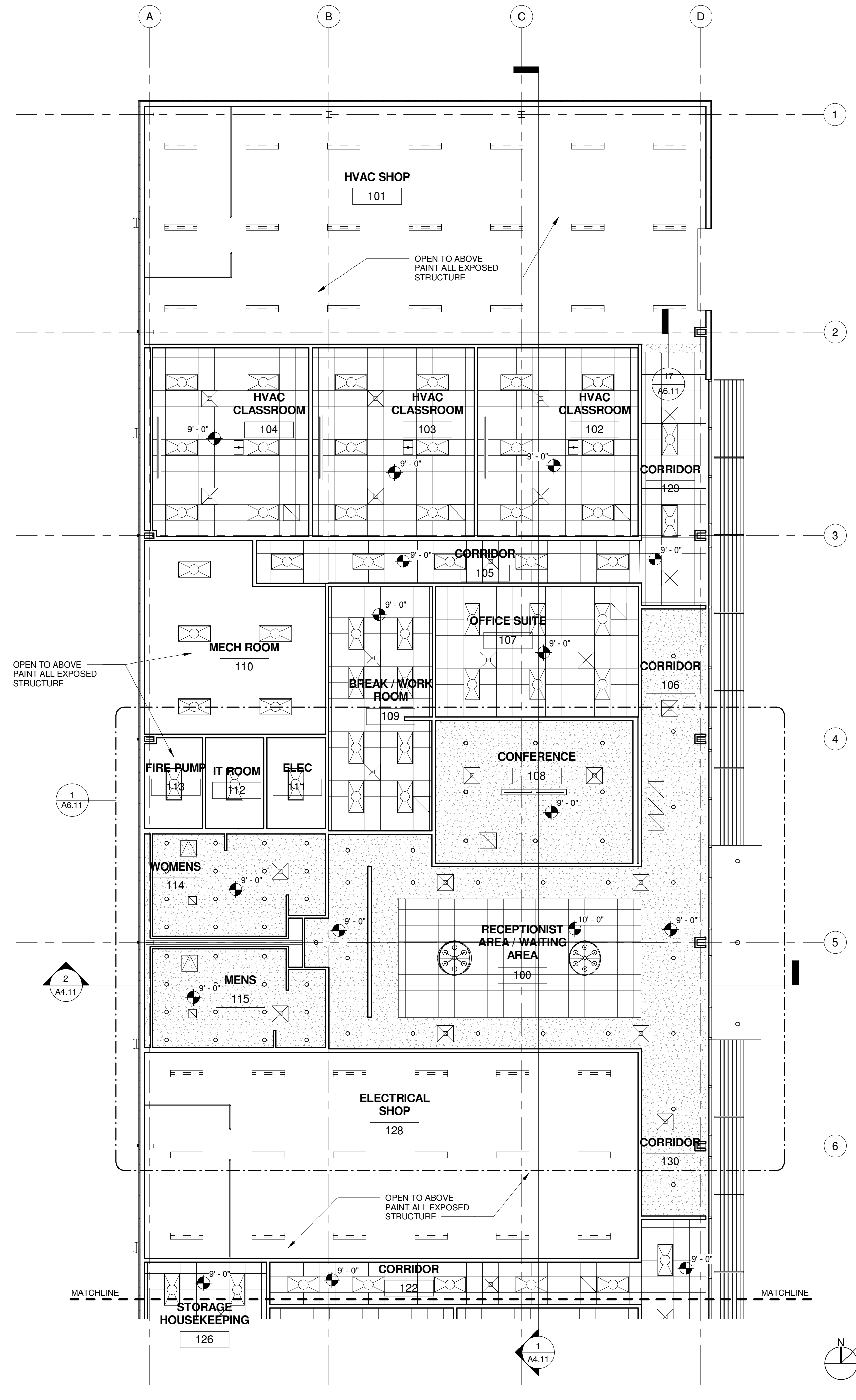
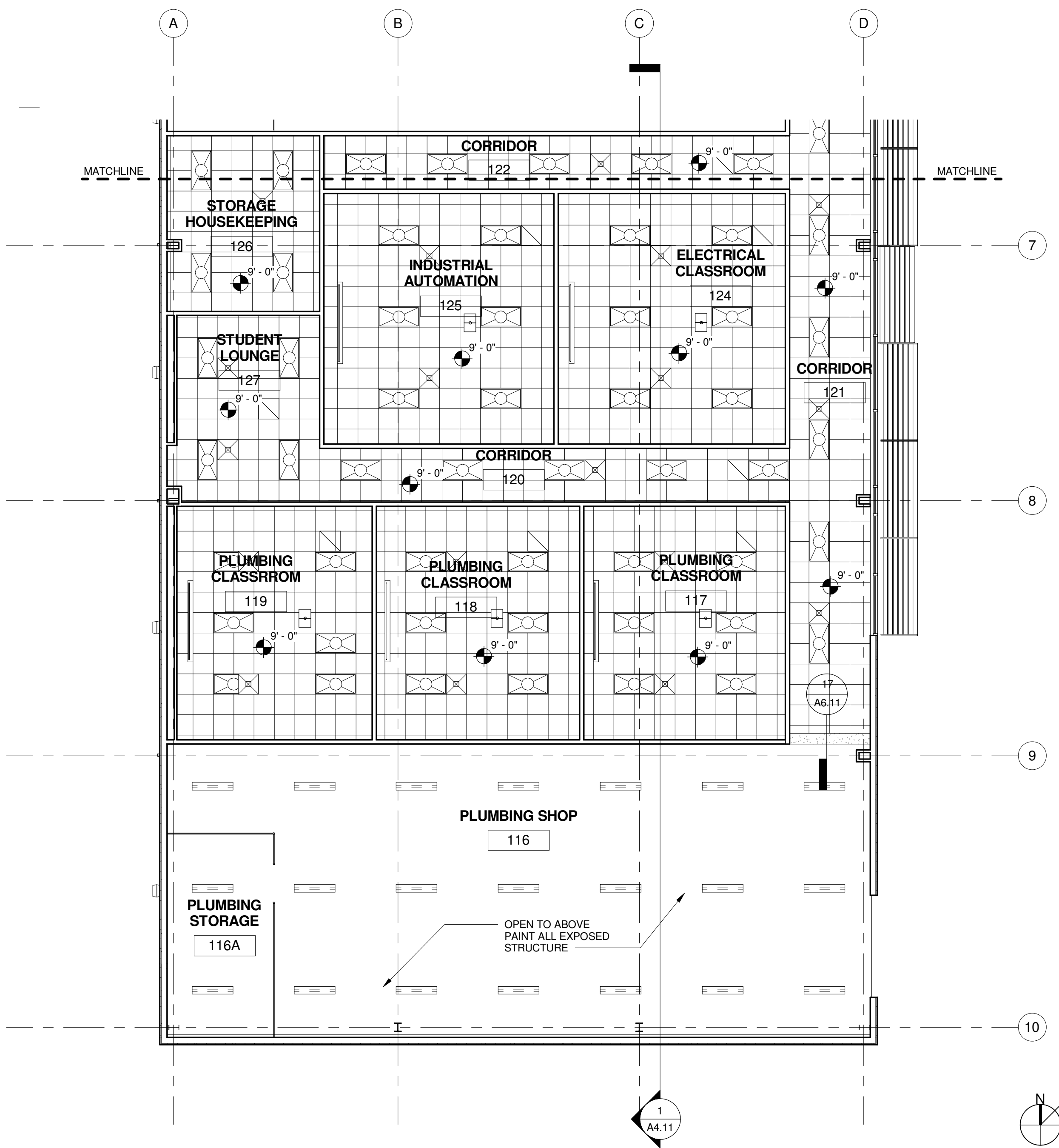
1. REFER ELECTRICAL DRAWINGS FOR LIGHT FIXTURES
2. REFER MECHANICAL DRAWINGS FOR MECHANICAL DEVICES
3. REFER TO SHEET A3.10 FOR FINISH SCHEDULE
4. REFER TO SHEET A3.00 FOR PARTITION SCHEDULE

RCP LEGEND

NO SCALE 23

GENERAL NOTES

NO SCALE 25



JULY 22, 2013

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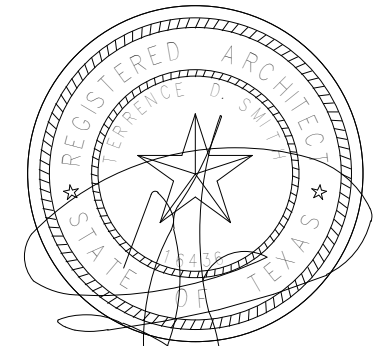
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100% CONSTRUCTION DOCUMENTS

DATE: JULY 22, 2013  
PROJECT NO.: R020213

REFLECTED CEILING PLAN - AREA "A" & "B"

**A6.01**

1. REFER SHEET A3.10 FOR FINISH SCHEDULE
2. REFER TO SPECIFICATION MANUAL SECTIONS 06-20-00 (FINISH CARPENTRY) AND 06-40-00 (FINISHED CARPENTRY) FOR COMPLETE ENUMERATION OF PERFORMANCE AND FABRICATION GUIDELINES.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING IN-WALL BLOCKING ADEQUATE FOR THE SUPPORT OF ALL CABINETRY NOTED HEREIN AND ADEQUATE IN-WALL BLOCKING FOR ANY ALL FINISH CARPENTRY OR ANCILLARY COMPONENTS (INCLUDING BUT NOT LIMITED TO WALL PANELS, MILLWORK, CUSTOM CASEWORK, GRAPHIC PANELS, ETC.) DESIGNATED AND DETAILED HEREIN AS RIGIDLY ATTACHED TO WALL ASSEMBLIES OR OTHER STRUCTURAL COMPONENTS. SEE SPECIFICATION SECTION FOR BLOCKING REQUIREMENTS.
4. FOR PLASTIC LAMINATE PANELS AND CABINETS: ALL EXPOSED EXTERIOR SURFACES ARE TO BE CLAD IN PLASTIC LAMINATE (PL). ALL EXPOSED INTERIOR SURFACES TO BE CLAD IN WHITE MELAMINE. HIDDEN OR CONCEALED FACES ARE TO BE CLAD IN A PLASTIC LAMINATE BACKER. DOORS AND ADJUSTABLE SHELVES ARE TO BE FULLY CLAD IN THE SAME PLASTIC LAMINATE AS THE CASE (U.N.O.). WOOD GRAIN TO RUN UP/DOWN FOR ALL VERTICAL PANELS (U.N.O.). PANEL BACKS TO BE CLAD WITH MELAMINE BACKER SHEET.
5. ALL COUNTERTOPS ARE TO INCLUDE A CONTINUOUS MATCHING 4" BACKSPLASH (U.N.O.). ALL BACKSPLASHES ARE ASSUMED TO INCLUDE SIDESPLASHES AT ADJOINING WALLS AND/OR OTHER VERTICAL INTERRUPTIONS.
6. PLASTIC LAMINATE COUNTERTOPS ARE TO HAVE A 1 1/2" NOSING DEPTH WITH A MATCHING DIELKEN WOODTAPE VINYL EDGE BAND (MANUFACTURERS BEST MATCH). EDGE BAND MATCHES TO BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. UNDERSIDES OF COUNTER ARE TO BE CLAD WITH BACKER SHEET.
7. ALL SHELVES ARE ADJUSTABLE (U.N.O.) SUPPORTED ON 1/4" NICKEL (SPOON-TYPE) SHELF PINS. RECEIVING HOLES TO BE SPACED 2" O.C.



JULY 22, 2013

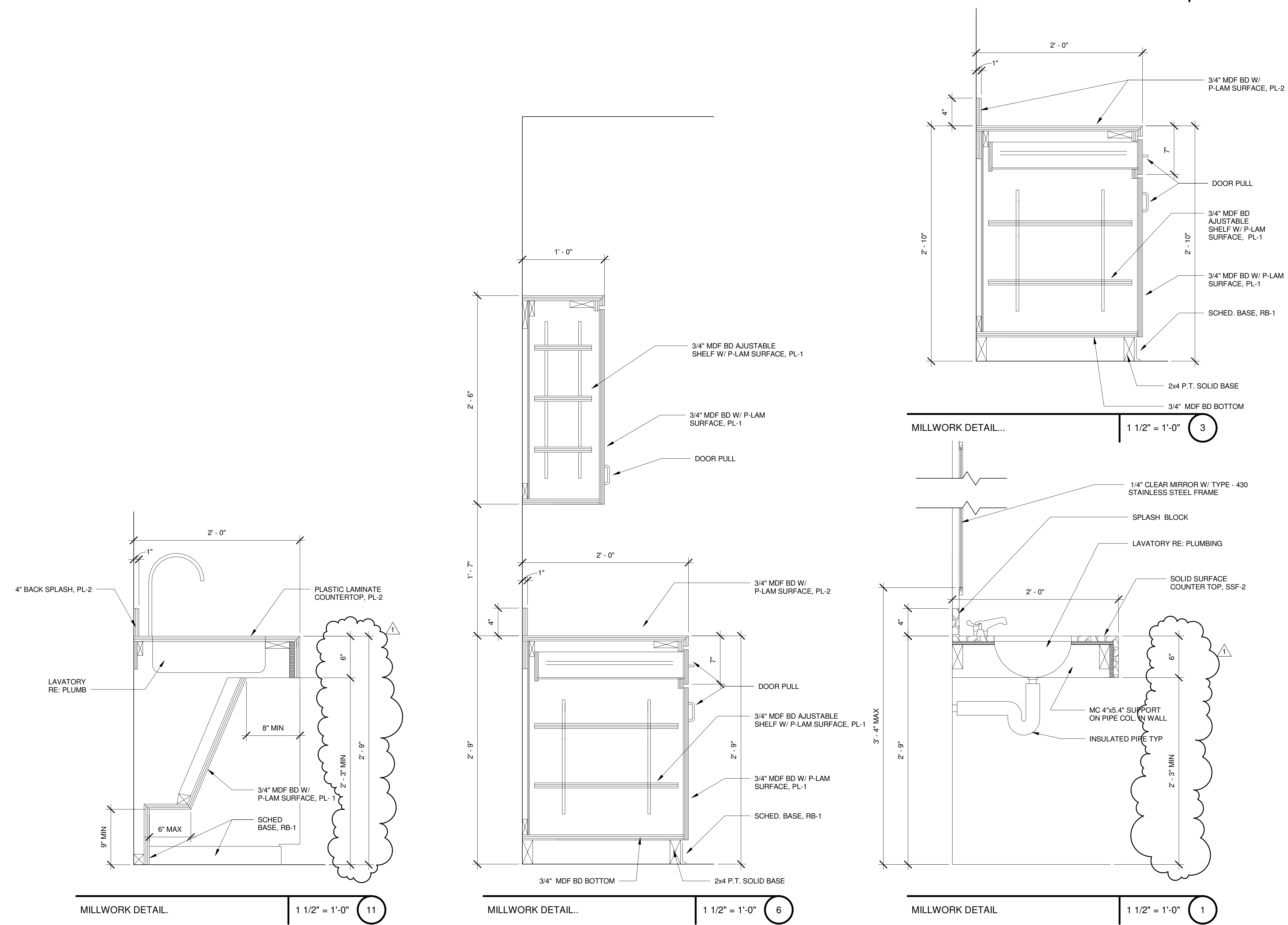
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GENERAL NOTES - CASEWORK NO SCALE 5



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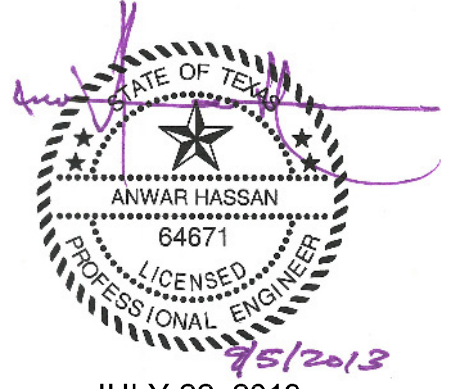
NO.	DATE	DESCRIPTION
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DATE: JULY 22, 2013  
PROJECT NO.: R020213

MILLWORK DETAILS

**A7.11**



JULY 22, 2013

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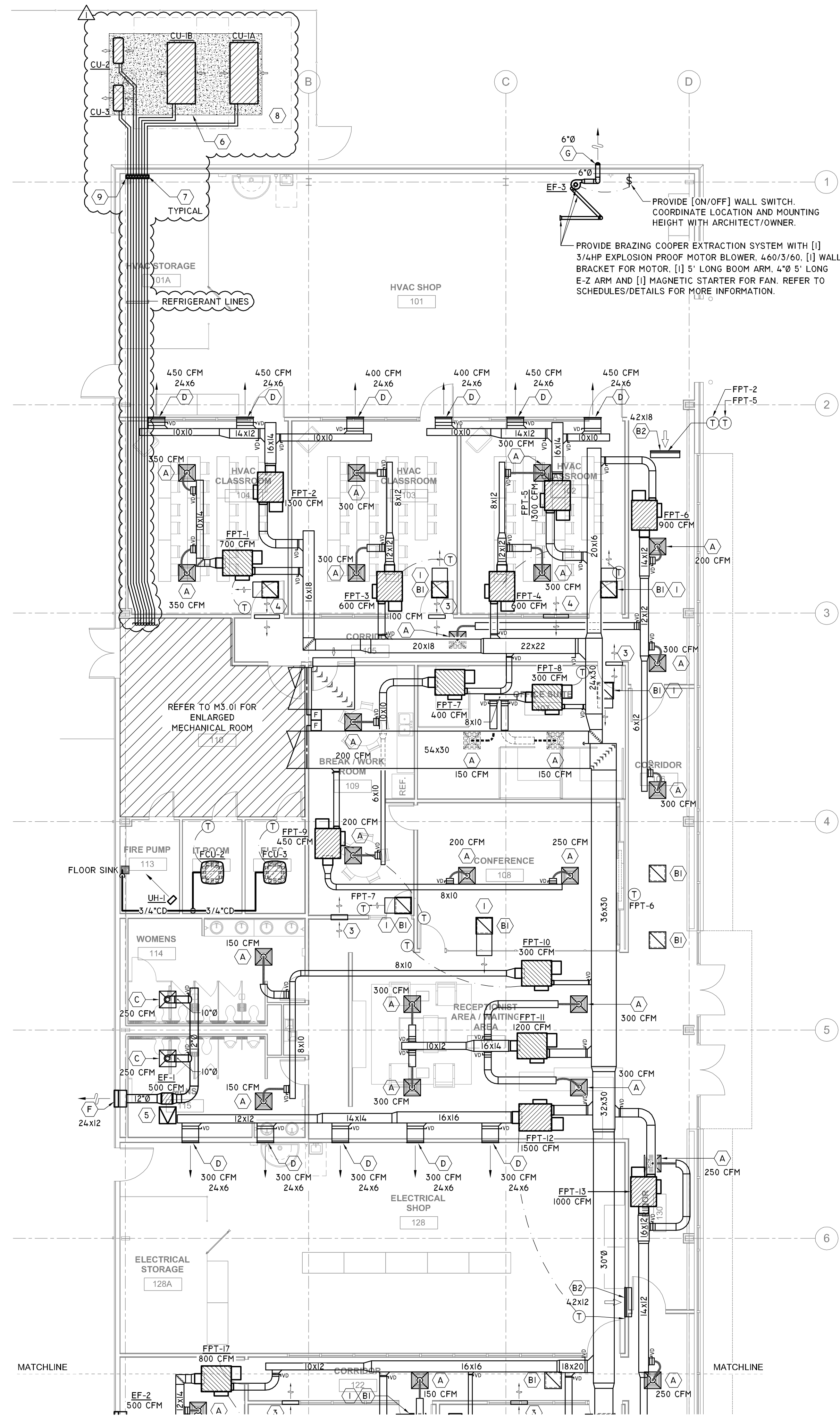
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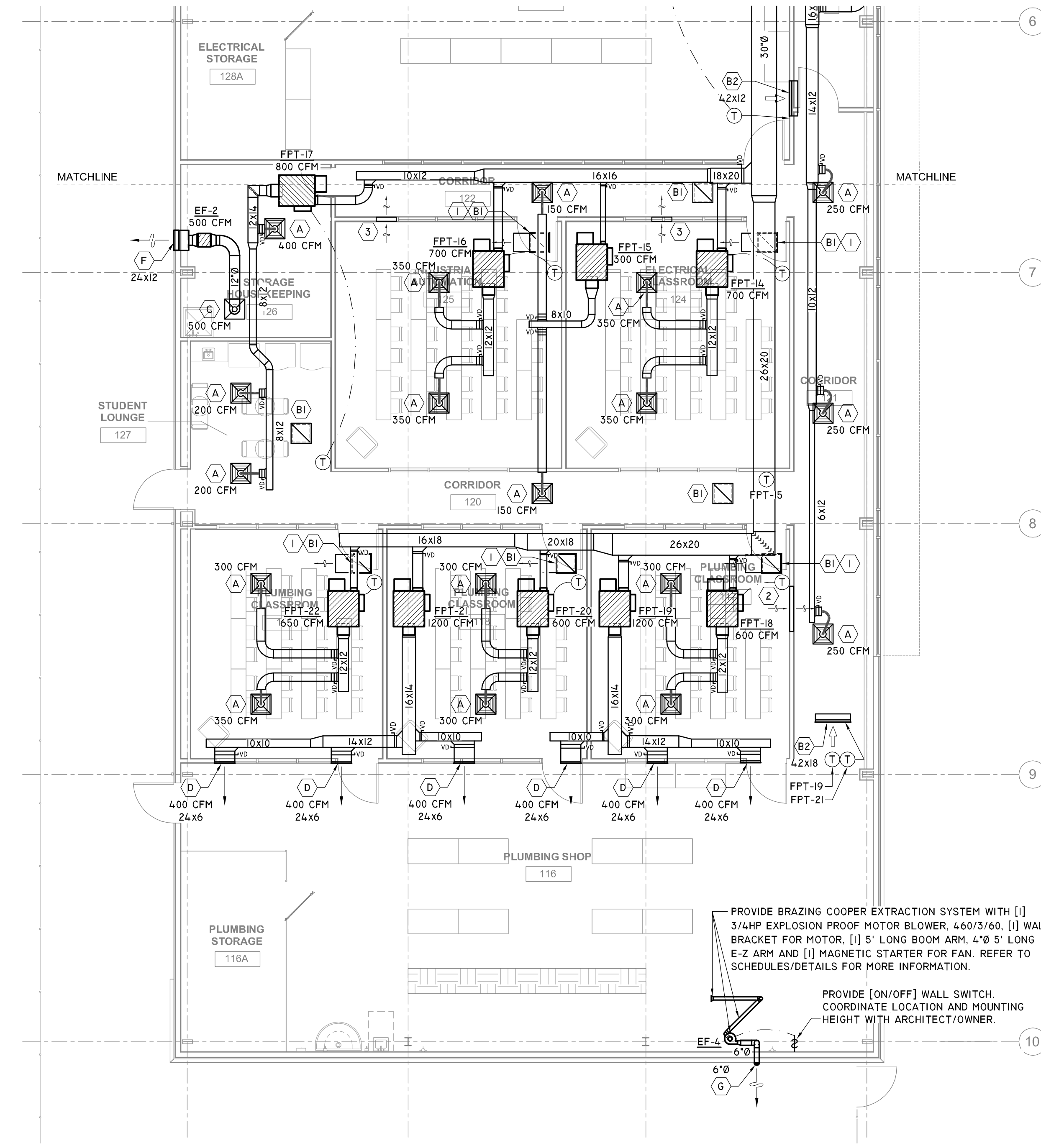
**FLOOR PLAN - MECHANICAL**

**M2.01**



**2 FLOOR PLAN - MECHANICAL - AREA B**  
SCALE: 1/8" = 1'-0"

- MECHANICAL KEYED NOTE(S):**
- 1 INSTALL RETURN AIR BOOT ON TOP OF RETURN AIR GRILLE. RE:7/M4.01
  - 2 54x24 FRAMED RETURN AIR OPENING ABOVE CEILING
  - 3 24x24 FRAMED RETURN AIR OPENING ABOVE CEILING
  - 4 36x24 FRAMED RETURN AIR OPENING ABOVE CEILING
  - 5 24x24 ACCESS PANEL. COORDINATE WITH ARCHITECTURAL PLANS
  - 6 6" HIGH CONCRETE PAD
  - 7 ELBOW UP AND ROUTE REFRIGERANT LINES TO ASSOCIATED FCU/AHU ABOVE CEILING
  - 8 CONDENSING UNIT CLEARANCE TYPICAL
  - 9 PROVIDE STEEL PROTECTIVE SHIELD ON VERTICAL EXPOSED PORTION TO PROTECT REFRIGERANT LINES

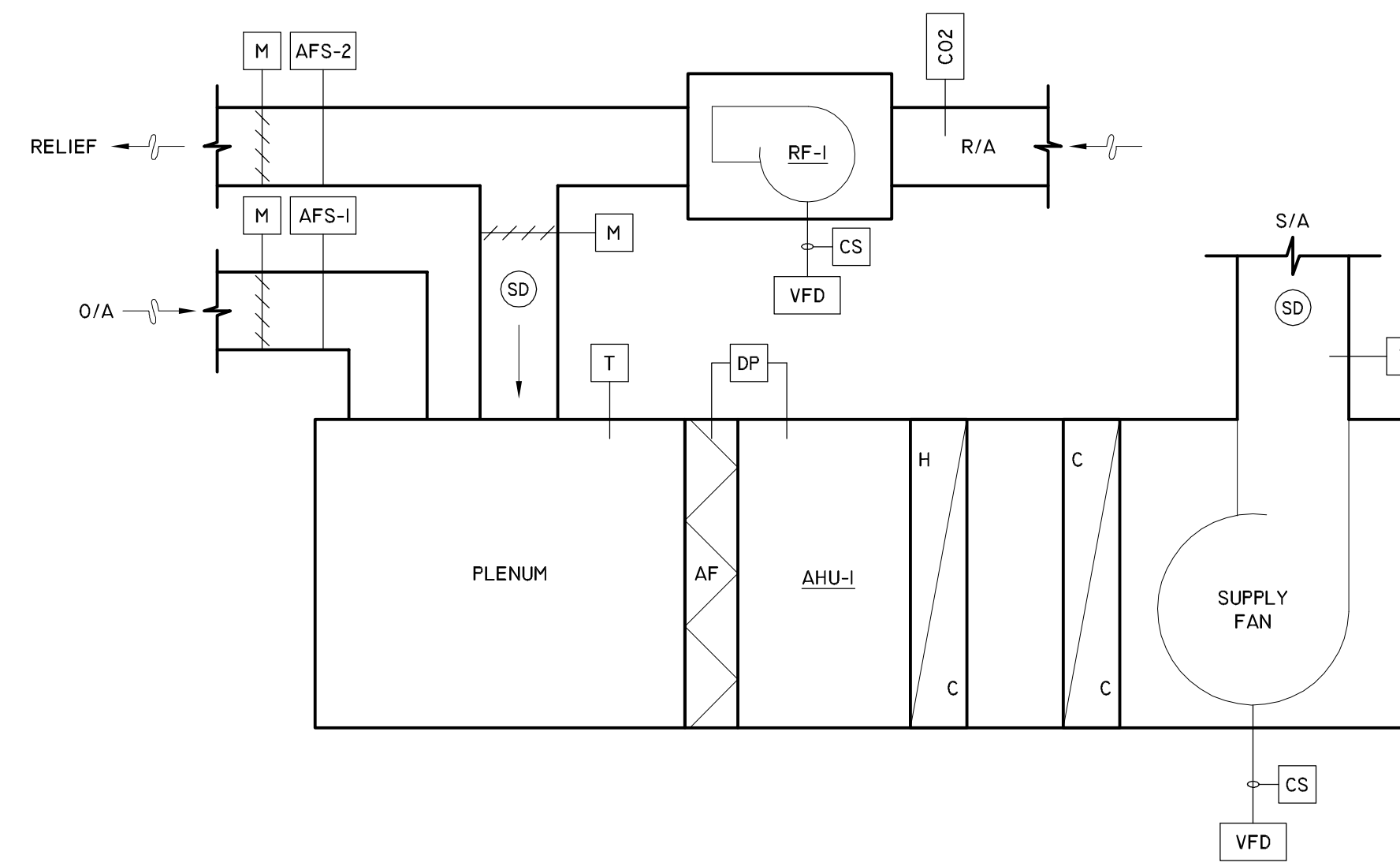


**1 FLOOR PLAN - MECHANICAL - AREA A**  
SCALE: 1/8" = 1'-0"

PROVIDE BRAZING COOPER EXTRACTION SYSTEM WITH [1] 3/4HP EXPLOSION PROOF MOTOR BLOWER. 460/3/60. [2] WALL BRACKET FOR MOTOR. [3] 5' LONG BOOM ARM. 4'0" 5' LONG E-Z ARM AND [4] MAGNETIC STARTER FOR FAN. REFER TO SCHEDULES/DETAILS FOR MORE INFORMATION.

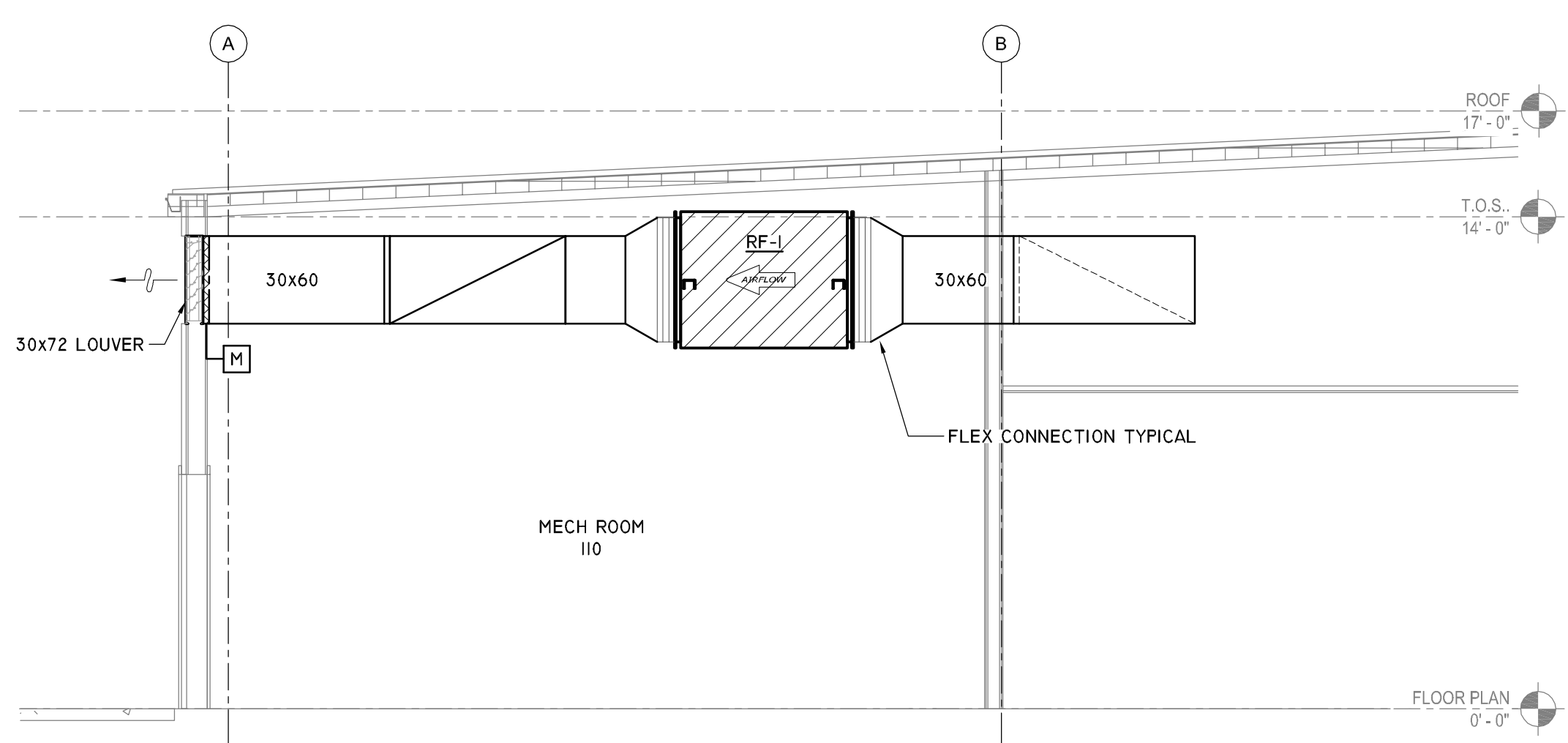
PROVIDE [ON/OFF] WALL SWITCH. COORDINATE LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.



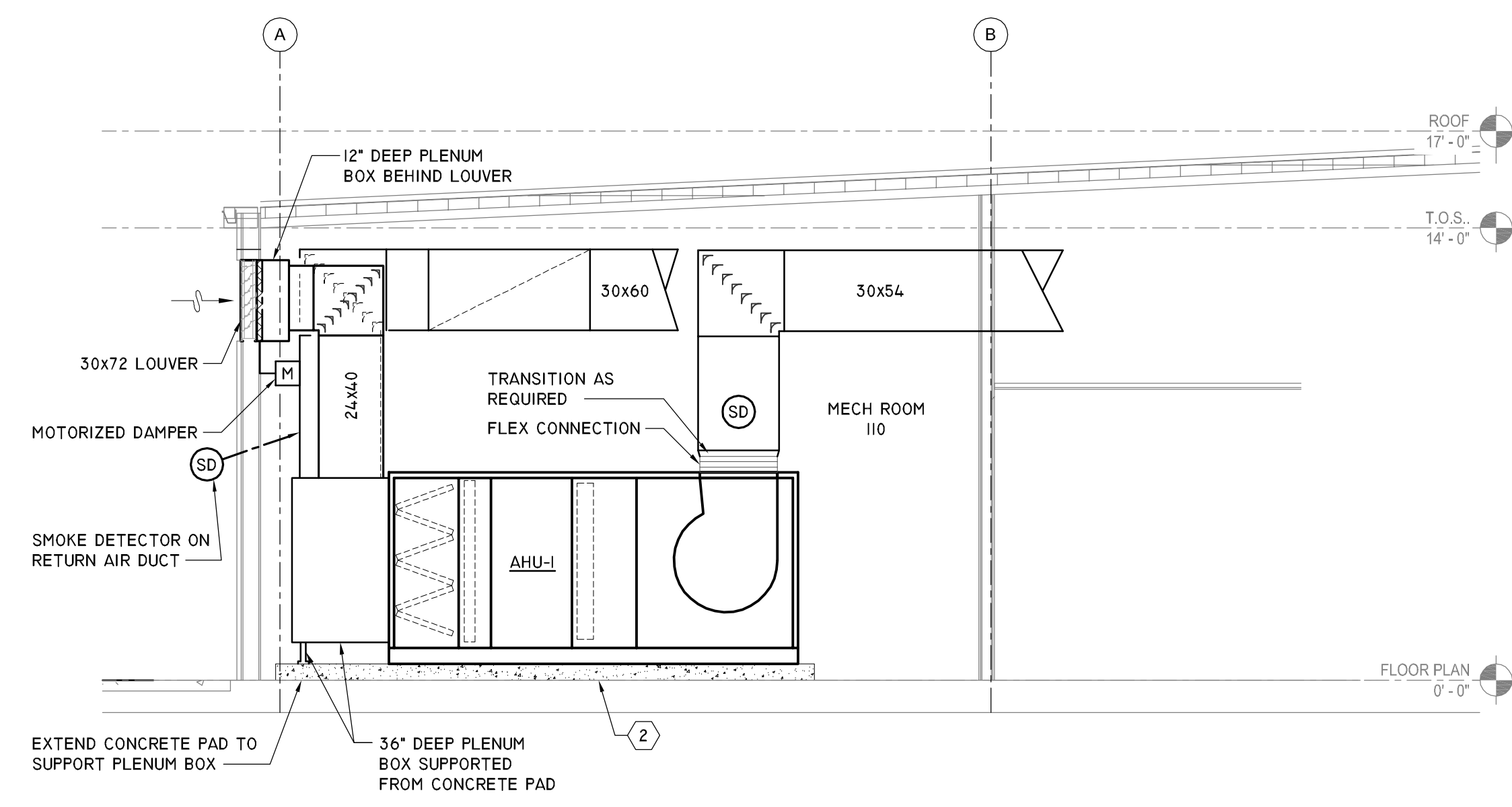


**4 CONTROL POINT DIAGRAM**  
SCALE: NTS

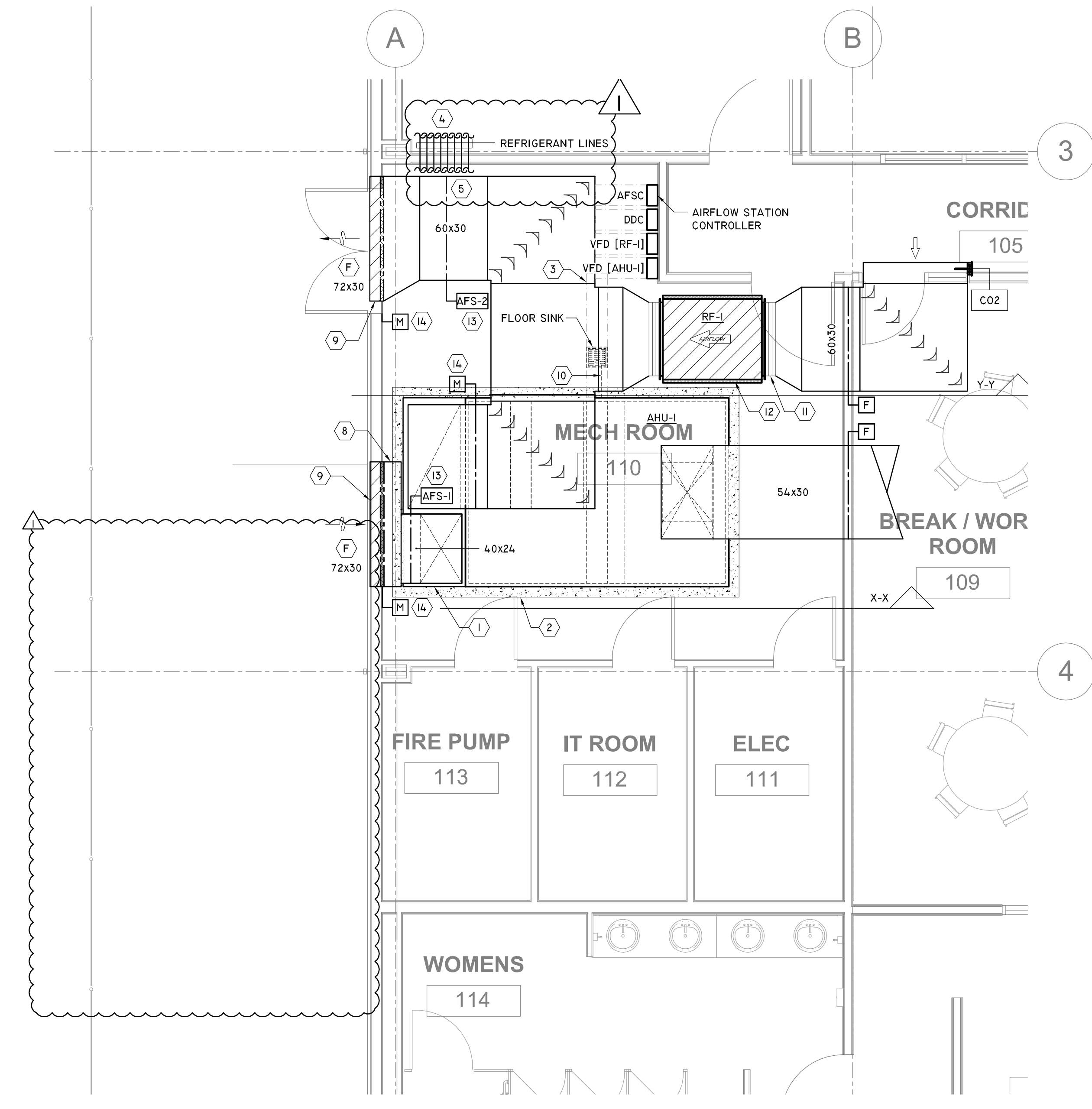
- MECHANICAL KEYED NOTE(S):**
- 1 36" DEEP PLENUM BOX BEHIND UNIT
  - 2 6" HIGH CONCRETE PAD
  - 3 COIL PULL SPACE
  - 4 RE:1/M2.01 FOR CONTINUATION
  - 5 ROUTE REFRIGERANT LINES TO ASSOCIATED FCU/AHU
  - 6 NOT USED
  - 7 NOT USED
  - 8 12" DEEP PLENUM BOX
  - 9 INSTALL LOUVER 12" BELOW ROOF
  - 10 ROUTE FULL-SIZE CONDENSATE DRAIN LINE TO FLOOR SINK AS SHOWN
  - 11 TYPICAL FLEX CONNECTION
  - 12 2" THICK INSULATION AROUND RETURN FAN (RF-I)
  - 13 PROVIDE AIRFLOW STATIONS [AFS-1 AND AFS-2]
  - 14 MOTORIZED DAMPER ON THE RETURN AIR, OUTSIDE AIR AND RELIEF AIR SHALL MODULATE BASED ON THE AIRFLOW MEASURED OF AIRFLOW STATIONS [AFS-1 AND AFS-2]



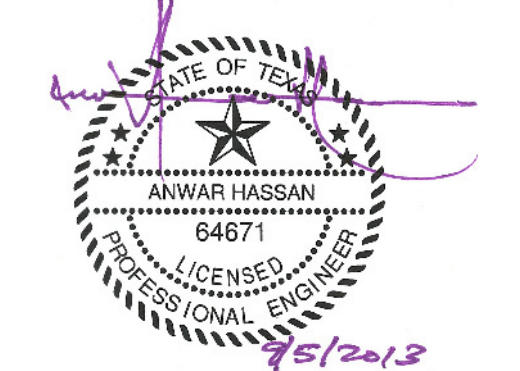
**3 SECTION Y-Y**  
SCALE: 1/4" = 1'-0"



**2 SECTION X-X**  
SCALE: 1/4" = 1'-0"



**1 ENLARGED FLOOR PLAN - MECHANICAL ROOM**  
SCALE: 1/4" = 1'-0"



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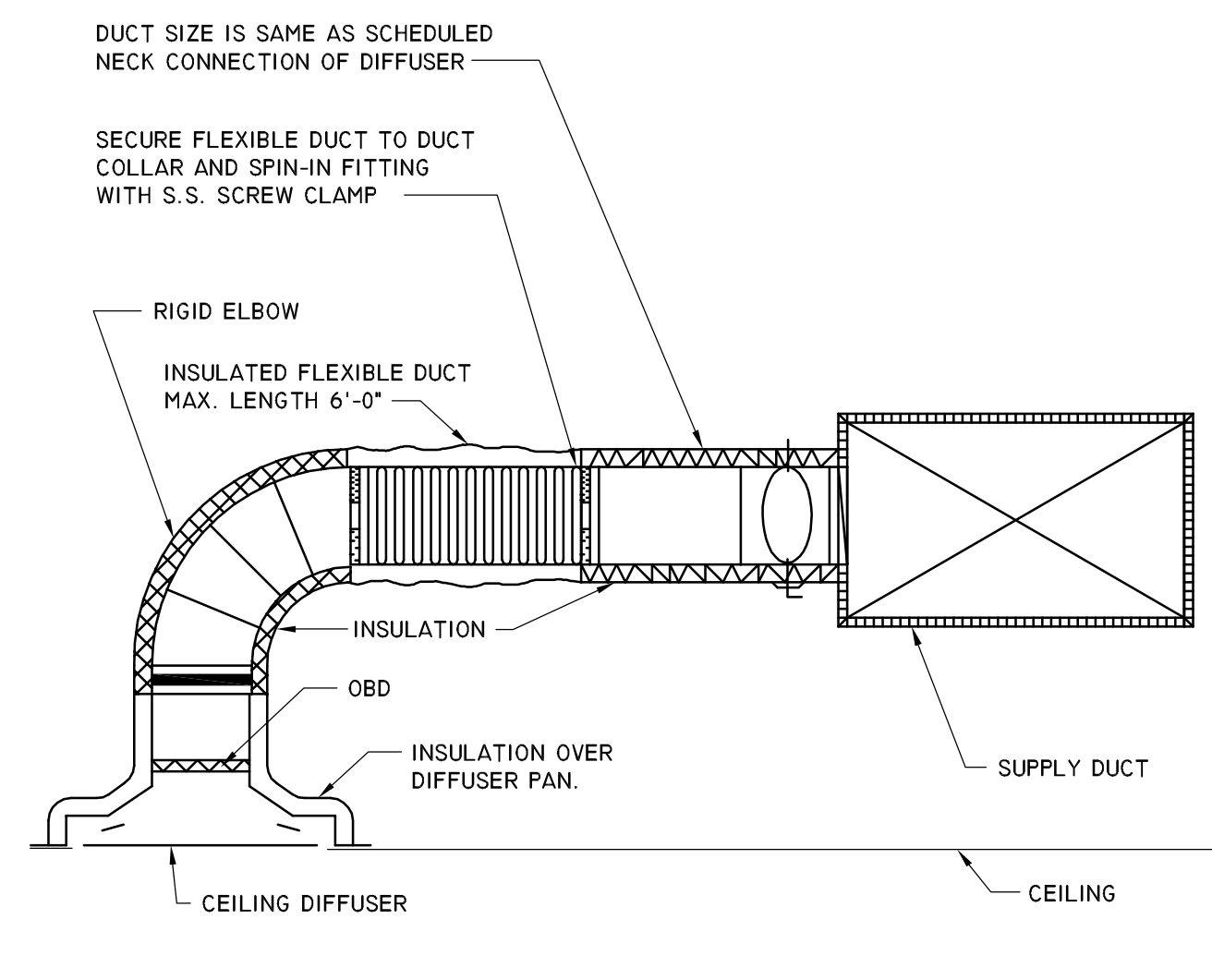
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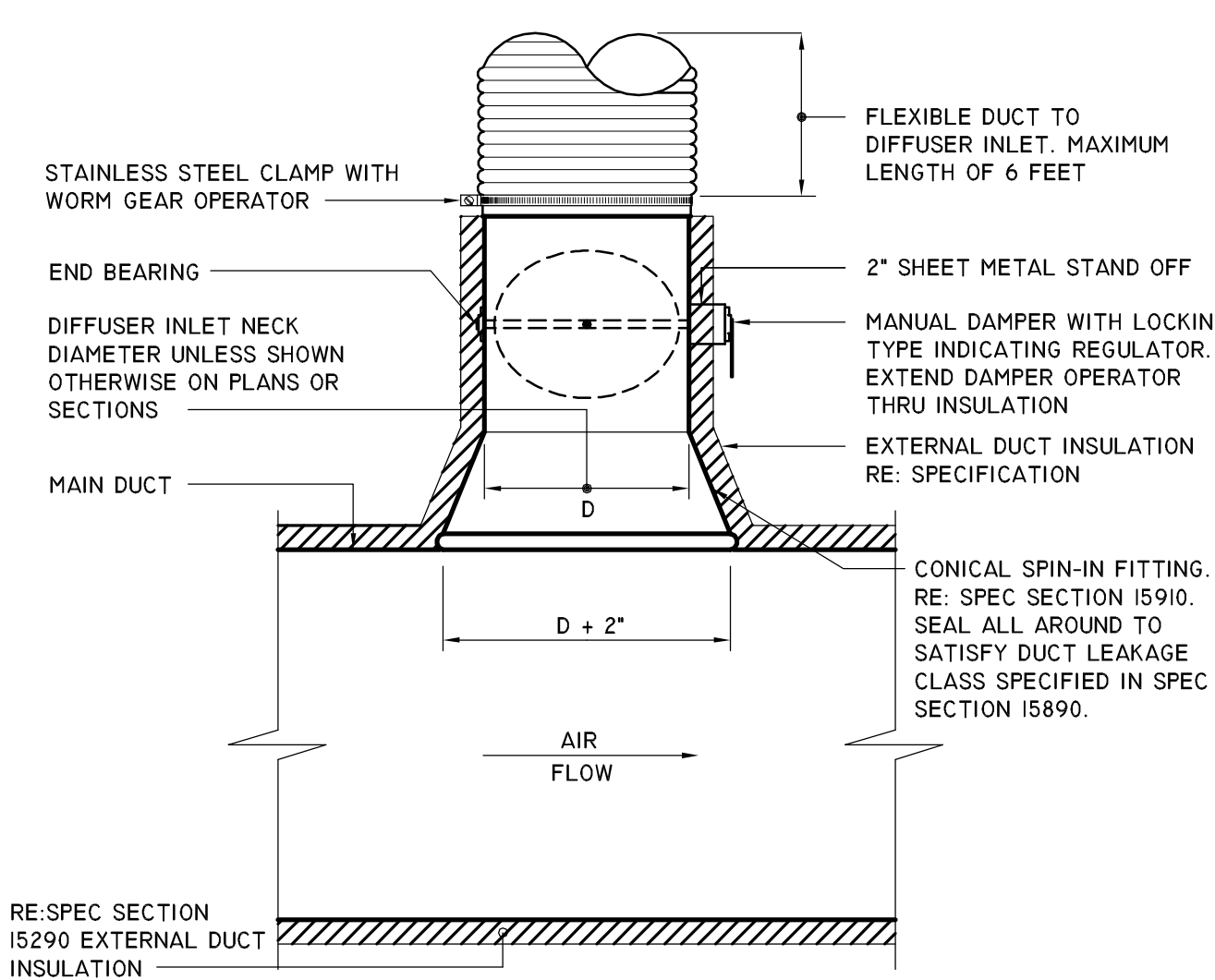
DATE: JULY 22, 2013  
PROJECT NO.: R020213

**ENLARGED FLOOR PLANS - MECHANICAL**

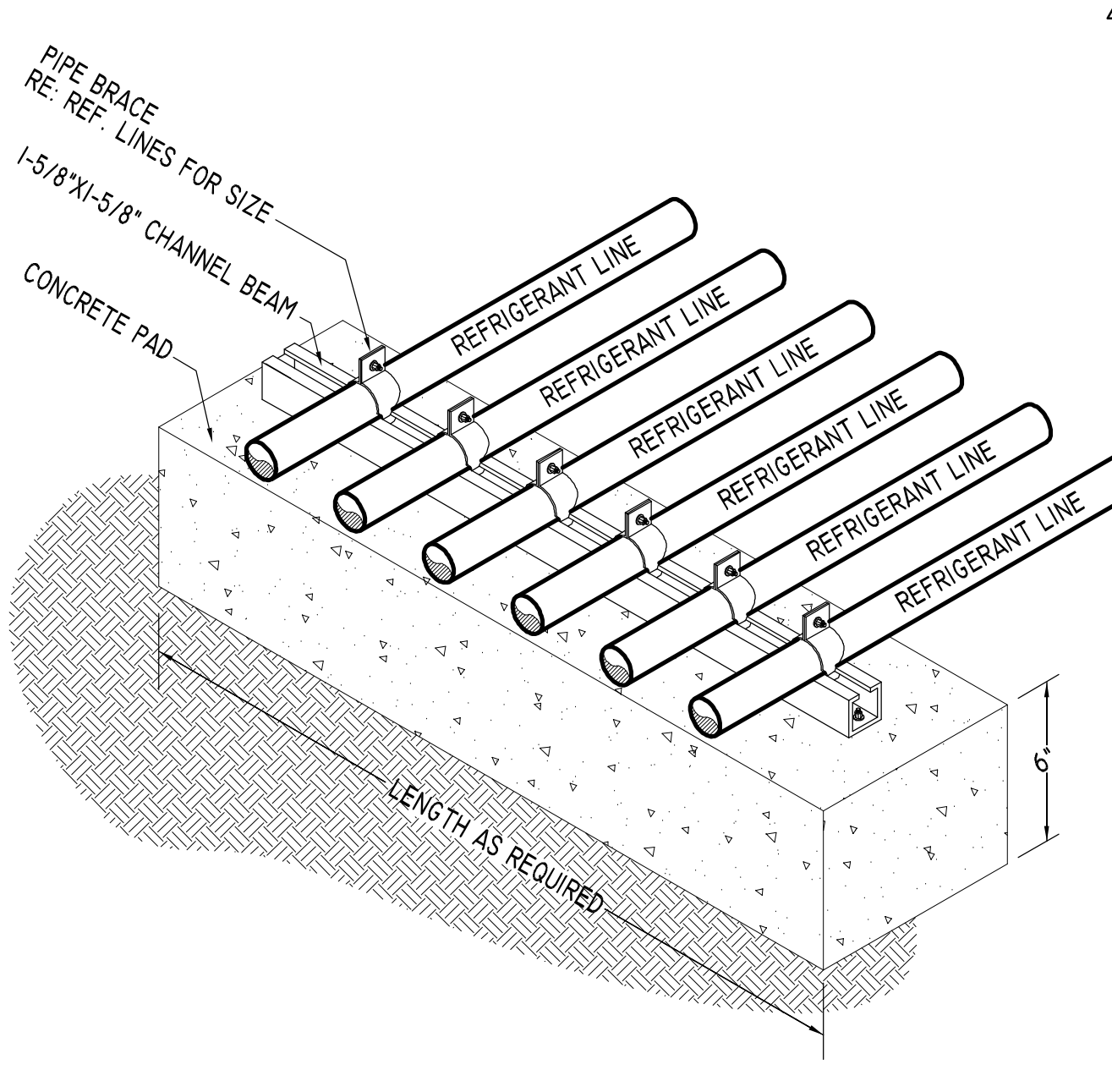
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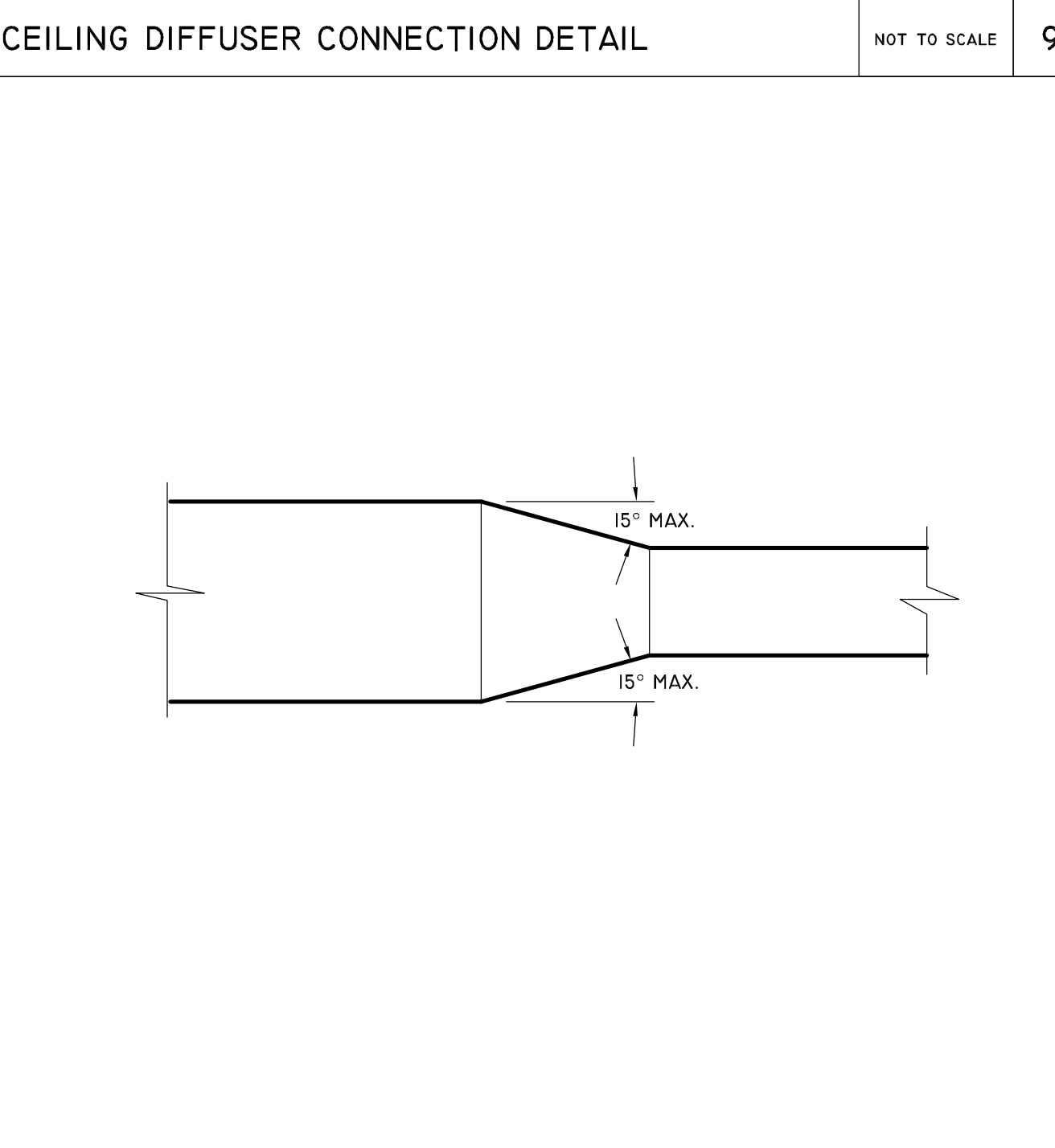
**NOTE:**  
THE FLANGED BELLMOUTH FITTING MUST BE PROVIDED, WHERE HEIGHT OF DUCT SHOWN ON PLANS CAN ACCOMMODATE THE FITTING. ONLY WHERE THE DUCT HEIGHT DOES NOT ALLOW THE INSTALLATION OF BELLMOUTH FITTING, PROVIDE STRAIGHT FITTING. FLEX DUCT MAY BE LOCATED IN RISER OR HORIZONTAL RUN.



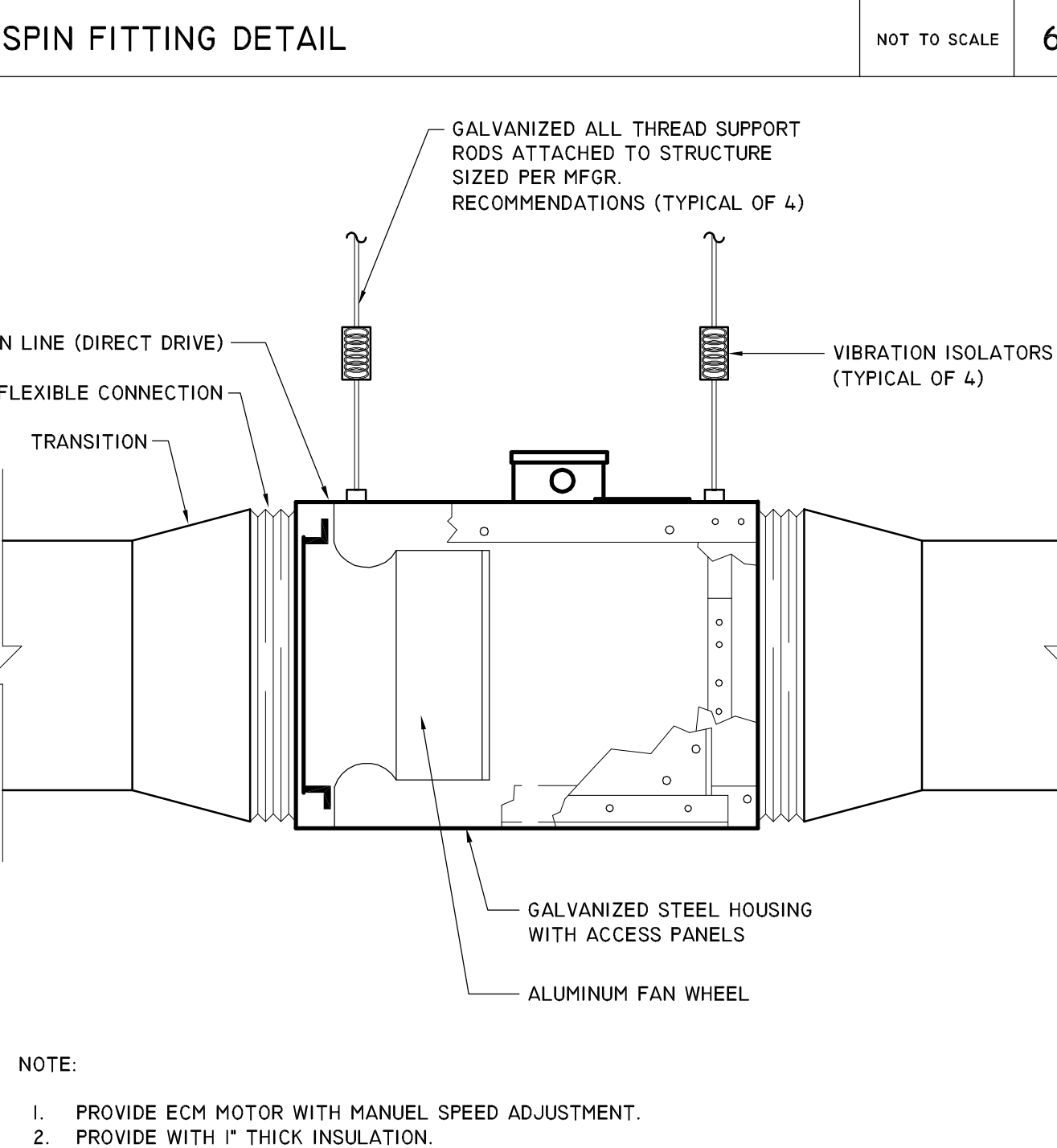
**NOTES:**  
1. USE THIS DETAIL FOR EXTERNALLY INSULATED DUCTWORK.  
2. EXTEND ROUND SHEET METAL DUCTWORK AND ASSOCIATED DUCT INSULATION FROM MAIN DUCT, SO FLEXIBLE DUCT LENGTH DOES NOT EXCEED 6 FEET.



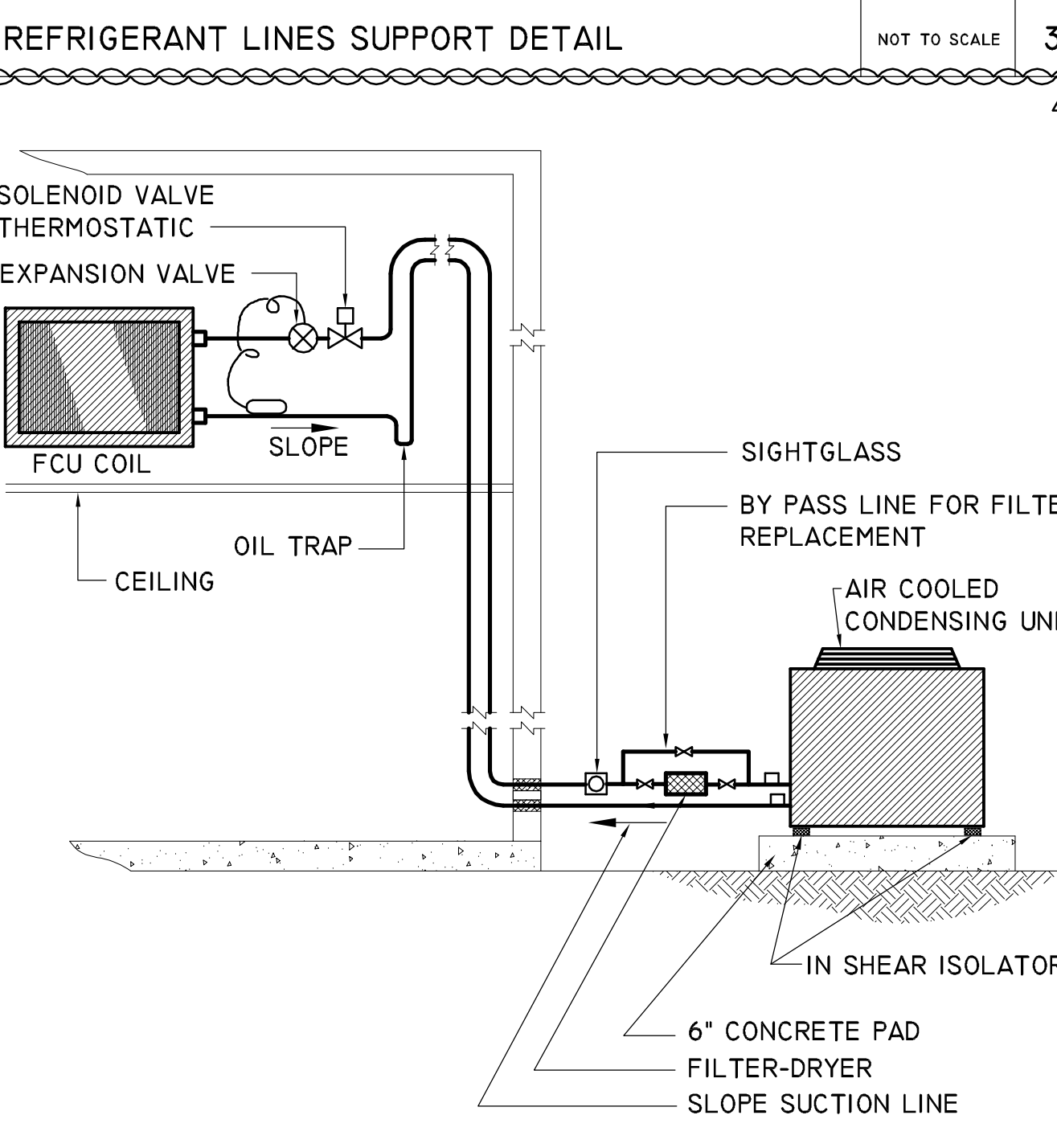
REFRIGERANT LINES SUPPORT DETAIL NOT TO SCALE 3



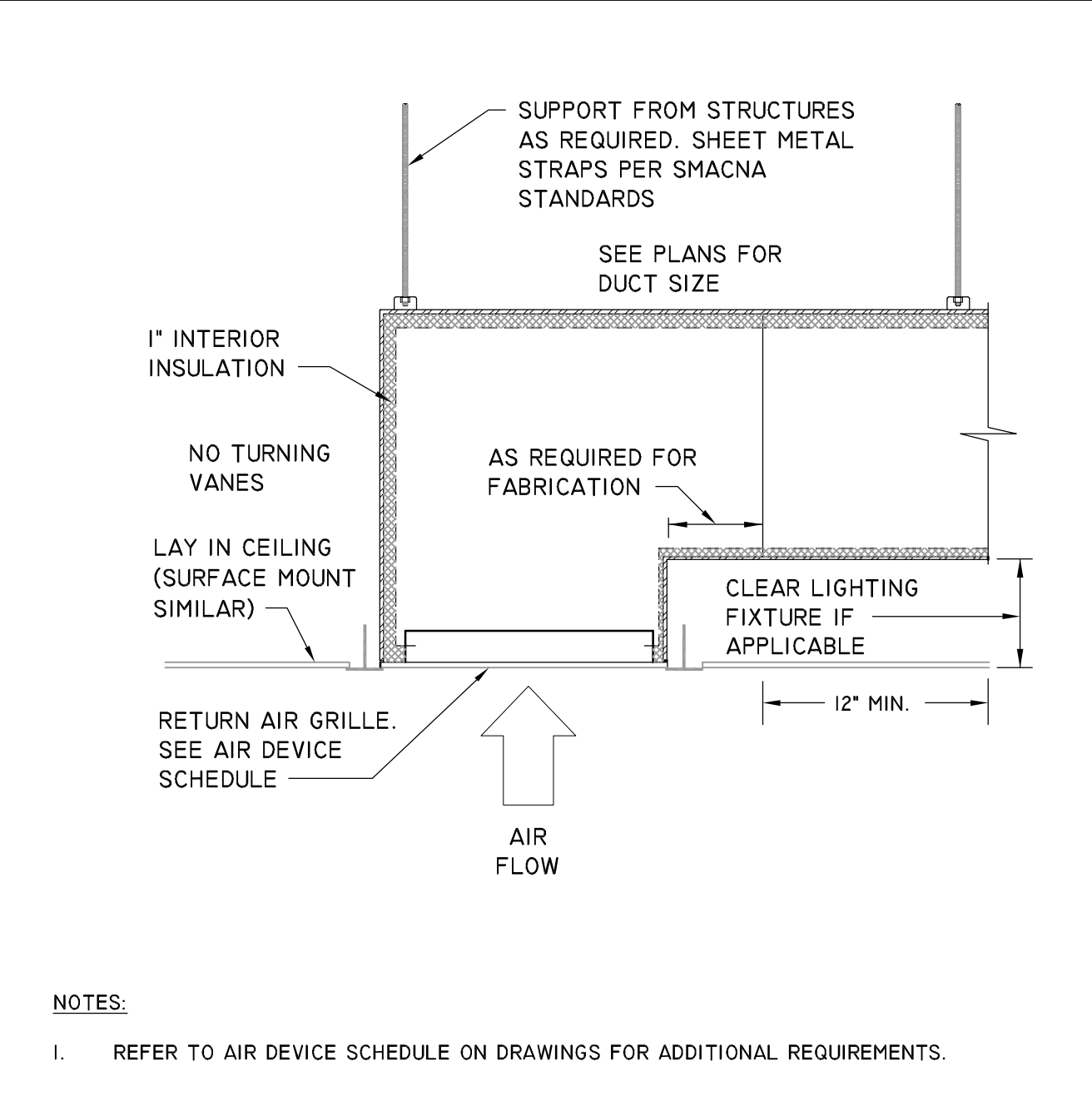
DUCT TRANSITION DETAIL NOT TO SCALE 8



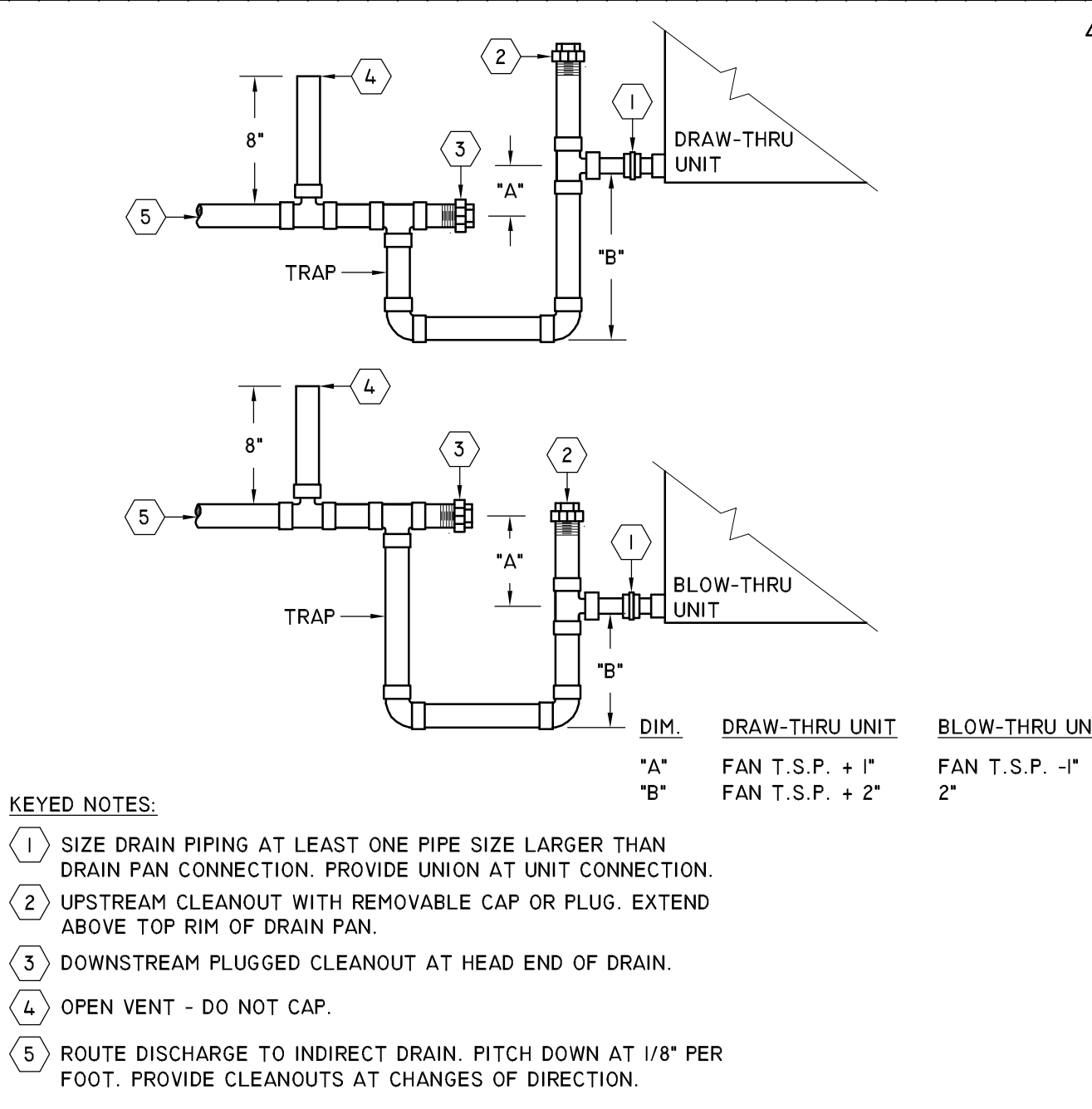
INLINE DIRECT DRIVE TENV/TEFC FAN DETAIL NOT TO SCALE 5



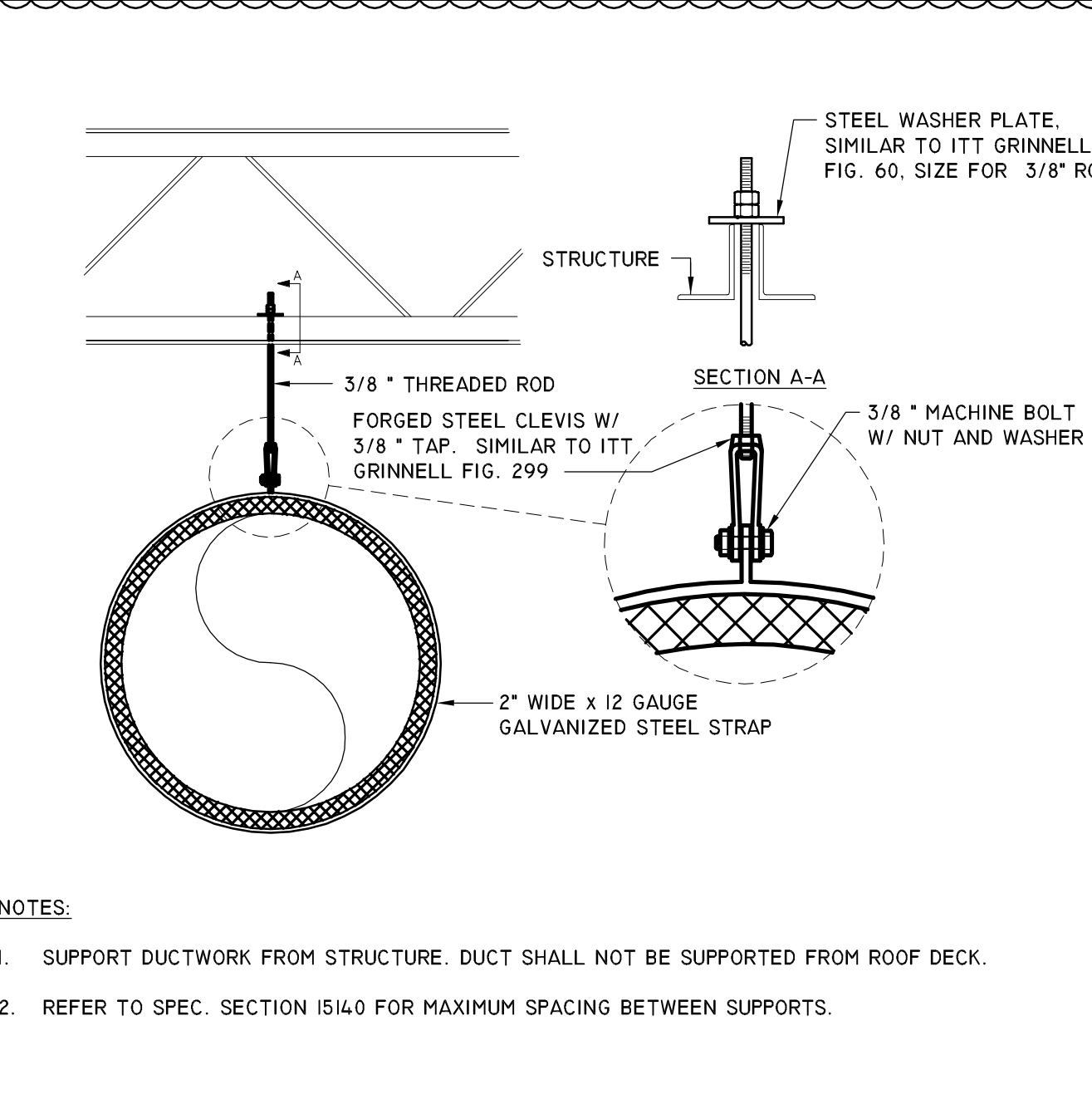
REFRIGERANT PIPING DETAIL NOT TO SCALE 2



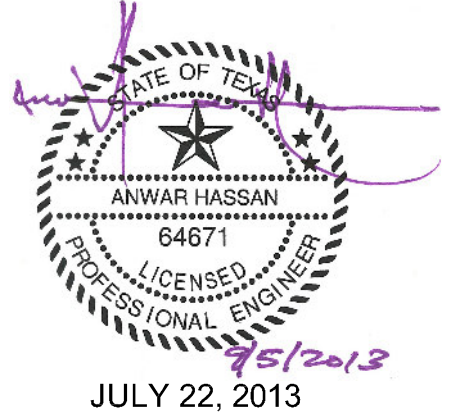
RETURN AIR GRILLE WITH BOOT DETAIL NOT TO SCALE 10



TYPICAL CONDENSATE DRAIN DETAIL NOT TO SCALE 4



ROUND DUCT SUPPORT FROM STRUCTURE DETAIL NOT TO SCALE 1



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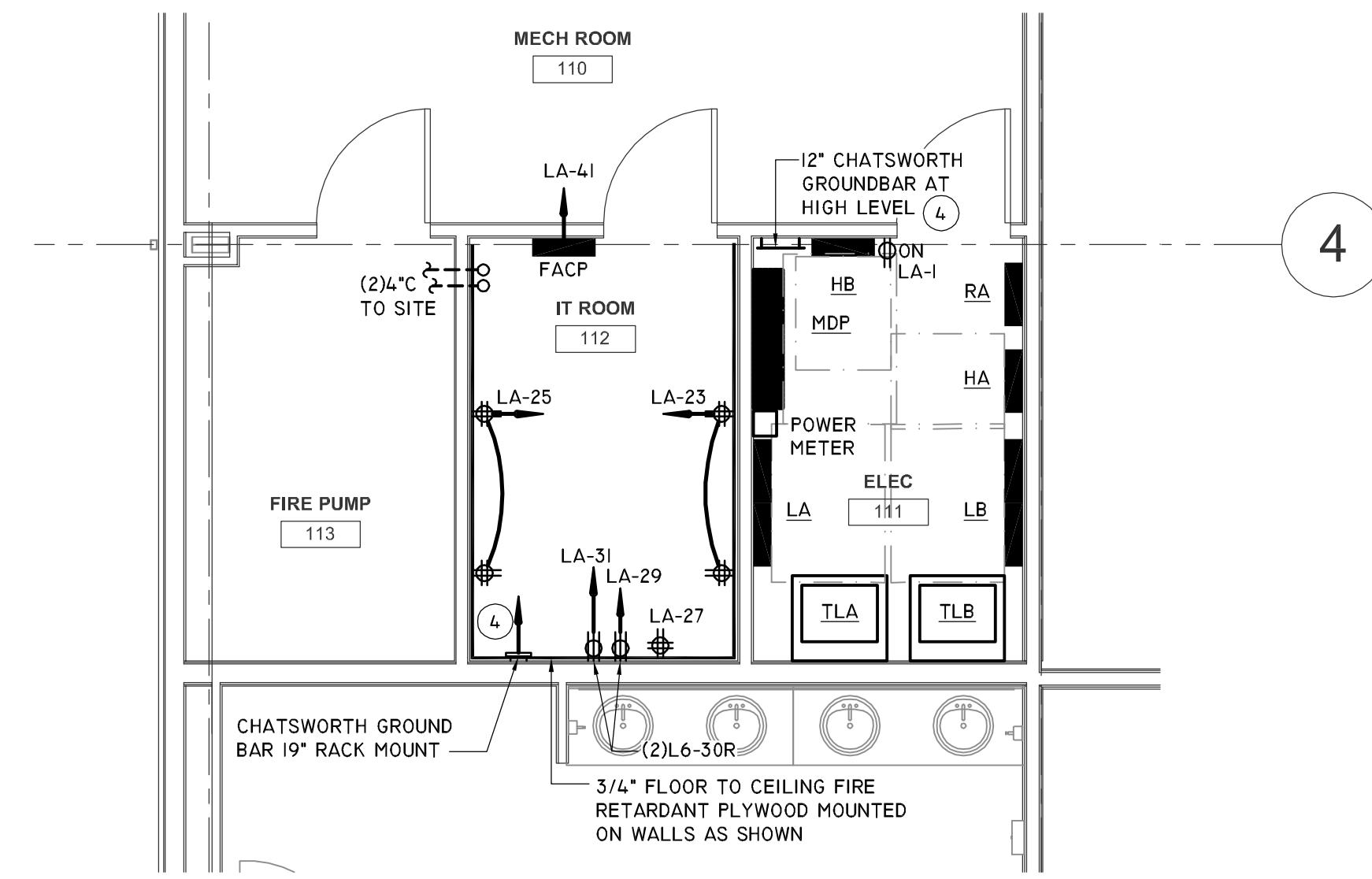
**ELECTRICAL LEGEND**

**E1.02**

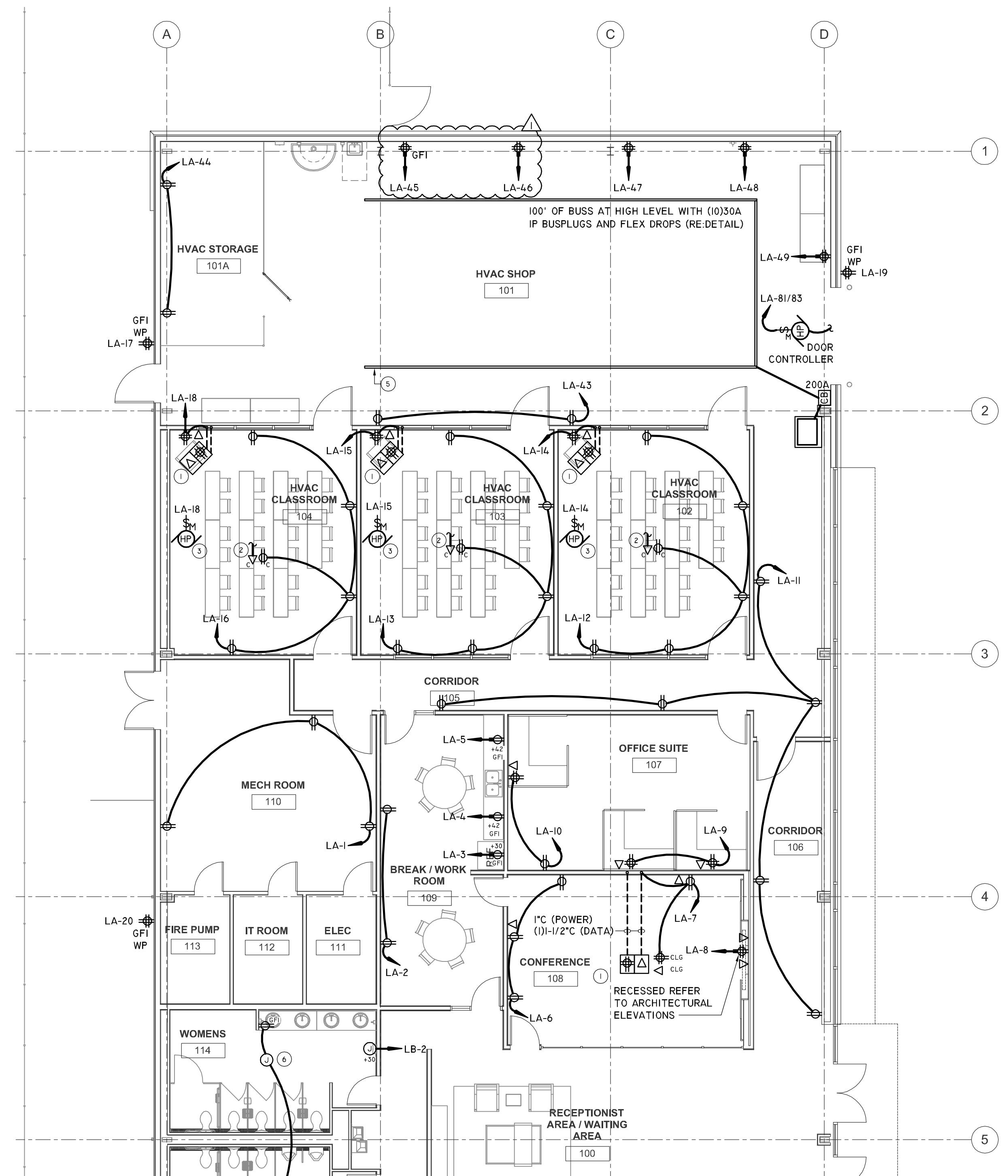
ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	HOME RUN TO PANEL HA, CIRCUITS 1, 3, 5 USING 3#12 (H), 3#12 (N), 1#12 (G), 3/4" C (UNLESS OTHERWISE NOTED) EACH CIRCUIT WILL HAVE ITS OWN NEUTRAL		LIGHTING CLASS PANEL HA = PANEL NAME CHARACTERISTICS AS INDICATED ON ONE LINE DIAGRAM AND PANEL SCHEDULE
	ROUND INCANDESCENT, HID, OR COMPACT FLUORESCENT LUMINAIRE RECESSED OR SUSPENDED FROM ABOVE XX = TYPE ON LUMINAIRE SCHEDULE		DISTRIBUTION CLASS PANEL DA = PANEL NAME CHARACTERISTICS AS INDICATED ON ONE LINE DIAGRAM
	ROUND INCANDESCENT, HID, OR COMPACT FLUORESCENT LUMINAIRE SUSPENDED FROM SIDE ARM XX = TYPE ON LUMINAIRE SCHEDULE		CONDUIT TURNING UP CONDUIT TURNING DOWN
	LINEAR FLUORESCENT LUMINAIRE RECESSED OR SUSPENDED FROM ABOVE XX = TYPE ON LUMINAIRE SCHEDULE		WEATHER HEAD FOR CONNECTING OVER HEAD CONDUCTORS
	LINEAR FLUORESCENT WITH EMERGENCY EGRESS OPERATION RECESSED OR SUSPENDED FROM ABOVE XX = TYPE ON LUMINAIRE SCHEDULE		20" Cu CHATWORTH GROUNDING BUSBAR 4.0153-020 TMGB PATTERN, 4" W x 1/4" H, 20"L, INSULATED STANDOFFS, PRE-DRILLED & TAP AS REQUIRED FOR CONDUCTORS
	EXIT SIGN WITH DIRECTIONAL ARROWS AS INDICATED, 1 OR 2 FACE PENDANT MOUNTED FROM ABOVE XI OR X2 = TYPE ON LUMINAIRE SCHEDULE		FIRE ALARM MANUAL PULL STATION WITH TAMPER COVER
	EMERGENCY EGRESS ONLY LUMINAIRE SURFACE MOUNTED FROM BACK XX = TYPE ON LUMINAIRE SCHEDULE		FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED
	NEMA 5-20R DUPLEX RECEPTACLE, MOUNTED 18" AFF (UON) WP = WEATHER PROOF, GFI = GFCI PROTECTED, IG = ISOLATED GROUND PROVIDE WITH STAINLESS STEEL COVERPLATE AND CIRCUIT NUMBER		FIRE ALARM HEAT DETECTOR, CEILING MOUNTED
	NEMA 5-20R QUADPLEX RECEPTACLE, MOUNTED 18" AFF (UON) WP = WEATHER PROOF, GFI = GFCI PROTECTED, IG = ISOLATED GROUND PROVIDE WITH STAINLESS STEEL COVERPLATE AND CIRCUIT NUMBER		FIRE ALARM DUCT-MOUNTED SMOKE DETECTOR
	SIMPLEX RECEPTACLE, MOUNTED 18" AFF (UON) WITH INDICATED CONFIGURATION (E.G. L6-30R = NEMA TWISTLOCK, 250 VAC, 30 A) PROVIDE WITH STAINLESS STEEL COVERPLATE AND CIRCUIT NUMBER		FIRE ALARM SUPERVISORY SHUTDOWN RELAY
	FLUSH FLOOR BOX WITH WIRING DEVICES AS INDICATED ON PLANS		FIRE ALARM FIRE-WATER FLOW SWITCH
	JUNCTION BOX		FIRE ALARM FIRE-WATER TAMPER SWITCH
	LIGHT SWITCH RATED I20/277 VAC, MOUNTED 42" AFF (UON), SINGLE-POLE (UON) 2 = 2-POLE, 3 = 3-WAY, 4 = 4-WAY, D = DIMMER, M = MOTOR-RATED W/ OL WP = WEATHER PROOF, OS = INTEGRAL OCCUPANCY SENSOR, R = RED COLOR, K = KEYS (MODIFIERS MAY BE COMBINED, E.G. D3 = 3-WAY DIMMER)		FIRE ALARM SPEAKER/STROBE
	CEILING OR WALL MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL WITH PASSIVE INFRARED AND ULTRASOUND DUAL TECHNOLOGY, 20 A RATED		FIRE ALARM VISUAL STROBE
	TV OUTLET 1-GANG BACKBOX, +42" AFF (UON), SS-302 COVER 1" C WITH MEASURED PULL STRING ROUTED IN CONDUITS BACK TO SERVER ROOM DEVICES AND LOW-VOLTAGE CABLING BY TELECOM CONTRACTOR		FIRE ALARM SPEAKER
	WALL TELEPHONE OUTLET 1-GANG BACKBOX, +42" AFF (UON), SS-302 COVER 1" C WITH MEASURED PULL STRING ROUTED IN CONDUITS BACK TO SERVER ROOM DEVICES AND LOW-VOLTAGE CABLING BY TELECOM CONTRACTOR		FIRE ALARM CONTROL PANEL
	COMBINATION DATA/VOICE (CAT 6E CABLE) OUTLET 2-GANG BACKBOX, SS-302 COVER 1" C WITH MEASURED PULL STRING ROUTED IN CONDUITS BACK TO SERVER ROOM, DEVICES AND LOW-VOLTAGE CABLING BY TELECOM CONTRACTOR. XX = DENOTES NUMBER OF CAT6E CABLES		FIRE ALARM REMOTE ANNUNCIATOR PANEL
	MULTIOUTLET ASSEMBLY (PLUG MOLD) AS SPECIFIED ON PLANS, WITH DEVICE TYPES AND QUANTITIES INDICATED ON PLANS		PUBLIC ADDRESS SPEAKER, CEILING-MOUNTED WALL-MOUNTED VOLUME CONTROL ADJACENT TO LIGHT SWITCH (UON)
	EMERGENCY POWER OFF, MUSHROOM HEAD, MAINTAINED CONTACT PUSH BUTTON		PUBLIC ADDRESS SPEAKER, CEILING-MOUNTED
	PHOTOELECTRIC SENSOR AIMED NORTH		PUBLIC ADDRESS INTERCOM CALL BUTTON, WALL-MOUNTED 42" AFF
	TIME CLOCK, ASTRONOMIC/MULTI-POLE CONTACTOR		INTRUSION ALARM MOTION DETECTOR
	POWER COMPANY POWER METER		INTRUSION ALARM NUMERIC KEY-PAD
	LIGHTING CONTACTOR CHA = CONTACTOR NAME, COIL = COIL CONTROL VOLTAGE, VAC = VOLTAGE RATING, AS = CURRENT RATINGS, P = POLE COUNT, NEMA- = ENCLOSURE TYPE		INTRUSION ALARM DOOR CONTACTOR
	CIRCUIT BREAKER VAC = VOLTAGE RATING, AF = FRAME SIZE, AT = TRIP SETTING, P = POLE COUNT, NEMA- = ENCLOSURE TYPE (WHEN APPLICABLE) MOLDED-CASE, THERMO-MAGNETIC (UON)		ACCESS CONTROL CARD READER
	DISCONNECT SWITCH VAC = VOLTAGE RATING, AS = SWITCH CURRENT RATING, AF = FUSE SIZE/TYPE (E.G. DETD), P = POLE COUNT, NEMA- = ENCLOSURE TYPE (WHEN APPLICABLE)		ACCESS CONTROL MAGNETIC DOOR LOCK
	COMBINATION CIRCUIT BREAKER, MOTOR CONTROLLER, AND THERMAL OVERLOAD VAC = VOLTAGE RATING, AF = FRAME SIZE, AT = TRIP SETTING, NEMA-# = MOTOR STARTER SIZE/TYPE (E.G. FVNR), HOA = SELECTOR SWITCH TYPE P = POLE COUNT, NEMA- = ENCLOSURE TYPE (WHEN APPLICABLE)		ACCESS CONTROL DOOR HOLD-OPEN
			TRANSFORMER TLA = TRANSFORMER NAME -TYPE = TRANSFORMER TYPE (E.G. DRY-TYPE, HARMONIC-MITIGATING...) VAC = WINDING VOLTAGES (PRIMARY : SECONDARY), kVA = CONTINUOUS CAPACITY, TAPS = QUANTITY/DEVIATION OF TAPS, RISE = TEMP RISE, INSUL = INSULATION CLASS -WOUND = WINDING MATERIAL/CONFIGURATION, NEMA- = ENCLOSURE TYPE
			VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECTING MEANS, VFCl

**GENERAL NOTES:**  
1. SYMBOL LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED ON ALL DRAWINGS.  
2. ABBREVIATION DEFINITIONS ARE NOT COMPREHENSIVE, AND NOT ALL ABBREVIATIONS MAY APPLY TO ALL DRAWINGS. SUBMIT FORMAL REQUEST FOR INFORMATION WHEN ENCOUNTERING CONFLICTS OR AMBIGUOUS SYMBOLS OR ABBREVIATIONS, AS THESE WILL NOT CONSTITUTE DISMISSAL OF CONTRACTOR RESPONSIBILITY.  
3. ALL COVER PLATES FOR RECEPTACLES, SWITCHES, AND DATA SHALL BE SS-302 (UON).  
4. PROVIDE DECORA STYLE SWITCHES FOR LIGHT SWITCHES THAT ARE NOT OCCUPANCY SENSOR TYPE.

**1 SYMBOL LEGEND**  
SCALE: NTS



**3 ENLARGED FLOOR PLAN - POWER**  
SCALE: 1/4" = 1'-0"



**1 FLOOR PLAN - POWER**  
SCALE: 1/8" = 1'-0"

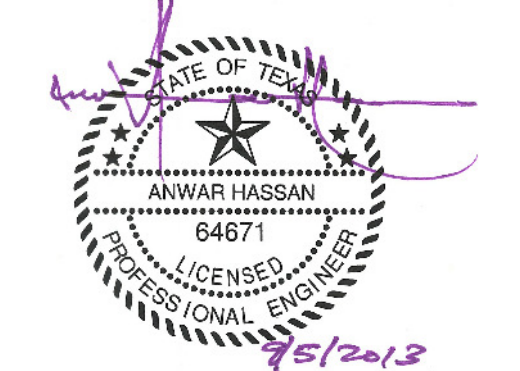
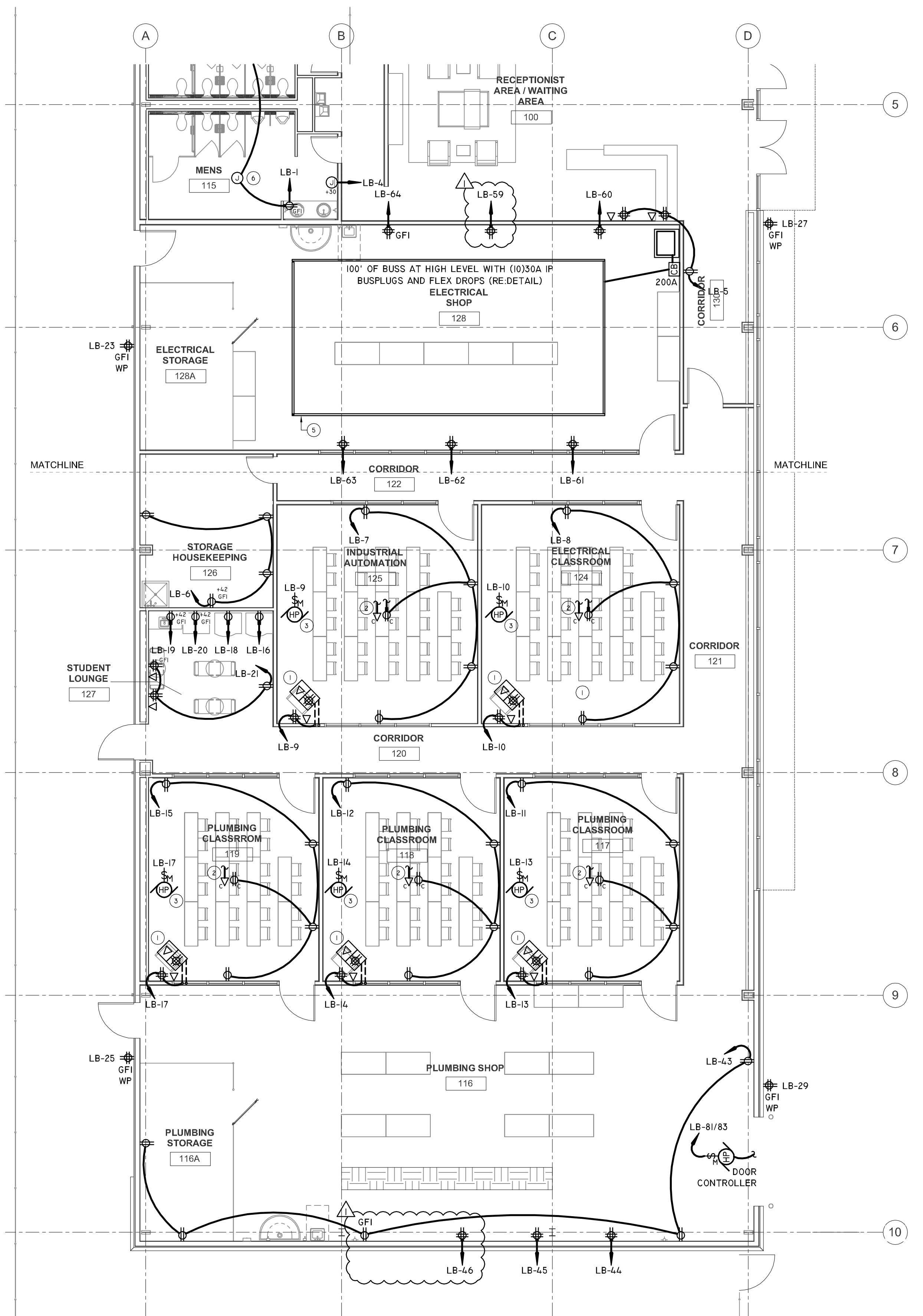
**ELECTRICAL KEYED NOTES:**

- 1 WIREMOLD FLOOR BOX #RFB4 W/QUAD AND W/DTB-2-AB (DATA) BRACKET, COOR. COVER SELECTION WITH ARCHITECT (TYPICAL OF 9 LOCATIONS).
- 2 1-1/2" C TO TEACHER STATION (TYPICAL OF 8 LOCATIONS).
- 3 PROVIDE 3/4" CONDUIT FROM MOTOR TO PROJECTION CONTROLLER LOCATION (BEHIND TEACHER DESK). CONTROLLER PROVIDED BY PROJECTION SCREEN VENDOR. CIRCUIT NUMBER SHOW IS FOR PROJECTION SCREEN AND CEILING RECEPTACLE.
- 4 PROVIDE #3/0 GROUND BONDED FROM THE MAIN DISTRIBUTION PANEL (RE-I-LINE). THE CONTRACTOR SHALL PROVIDE DOUBLE LUGGING ON FOR THE BUS BAR.

- 5 OVERHEAD BUSDUCT, 225A, 240V, 100' L (AS INDICATED), COMPLETE WITH END POWER FEED CONNECTOR (TAP BOX), COUPLER, HANGERS, END CAPS AND PLUG-INS AT TWO FOOT ON CENTER. PROVIDE SHOP DRAWINGS.

**GENERAL ELECTRICAL NOTES**

- 1 ELECTRICAL CONTRACTOR WILL SEAL ALL CONDUITS WHICH TRANSVERSE FROM HOT/COLD SPACES OR FROM EXTERIOR TO INTERIOR.
- 2 CONDUIT WILL BE SEALED BOTH INSIDE AND OUT AFTER PULLING WIRING, IN ORDER TO MITIGATE ANY CONDENSATION FORMING INSIDE OF THE PANEL BOARDS.



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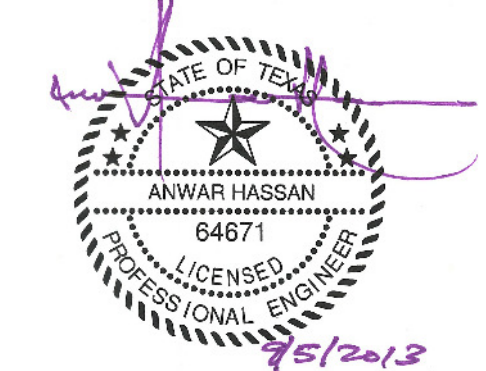
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**FLOOR PLAN - POWER**

**E2.01**



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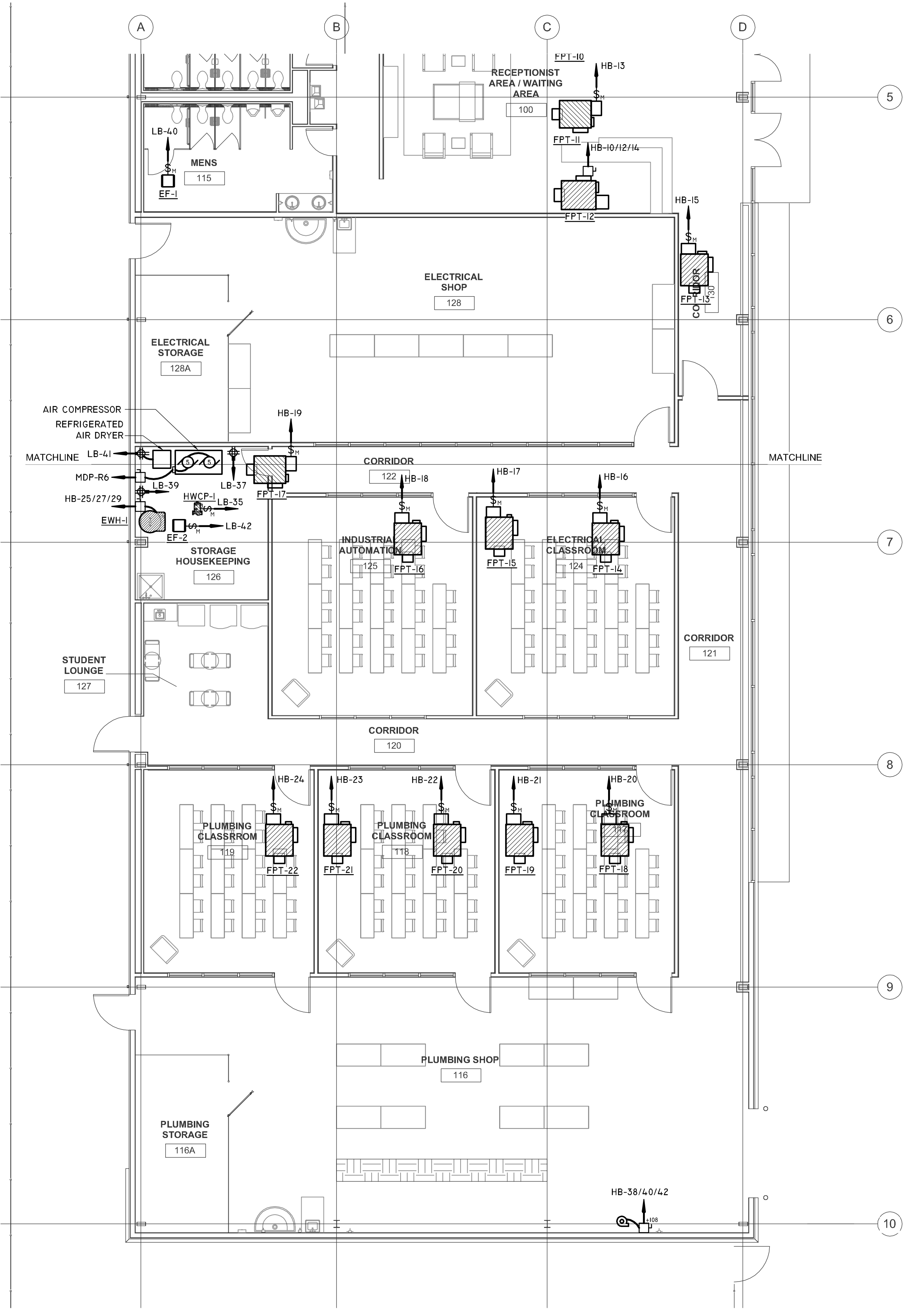
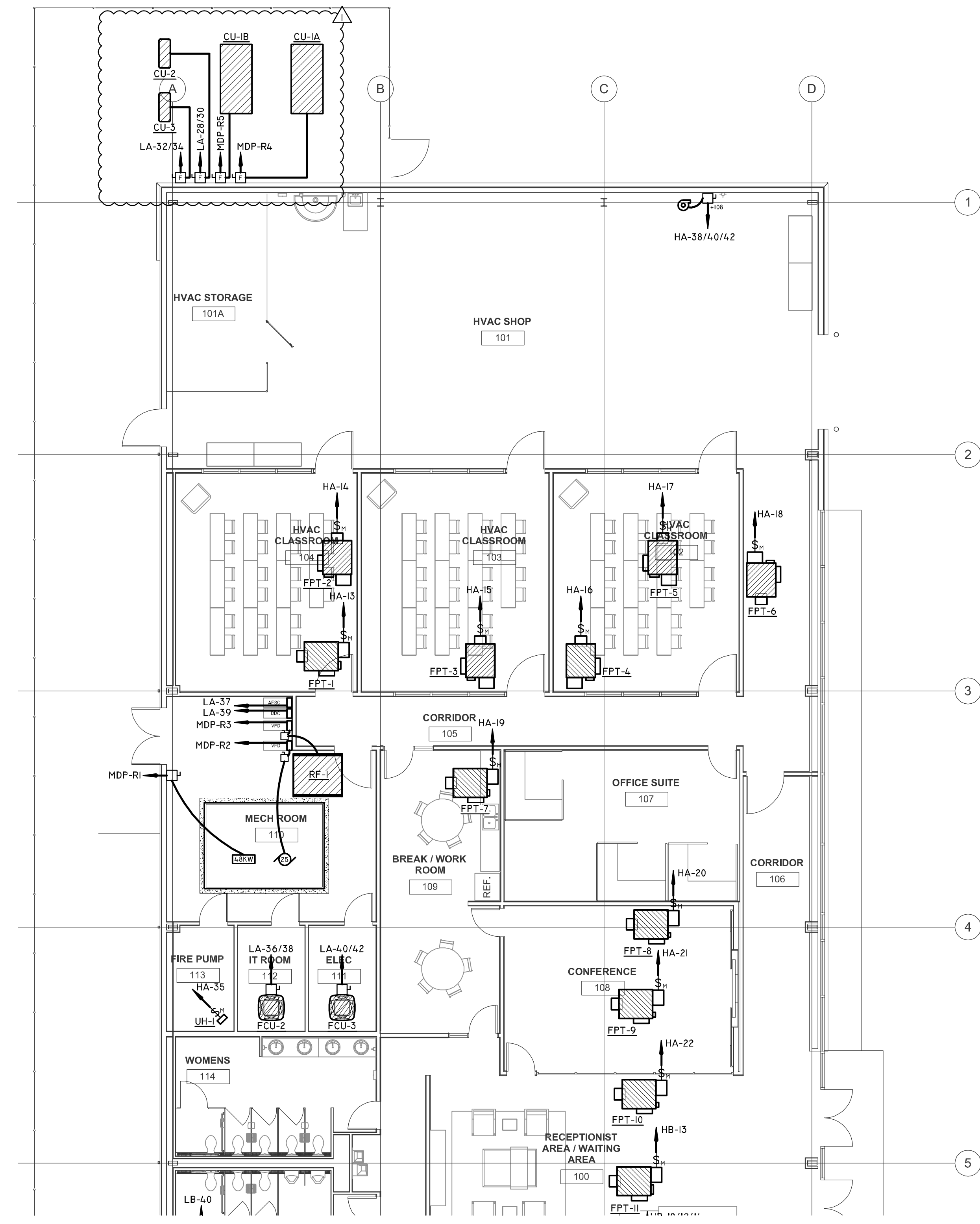
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FLOOR PLAN -  
EQUIPMENT  
POWER

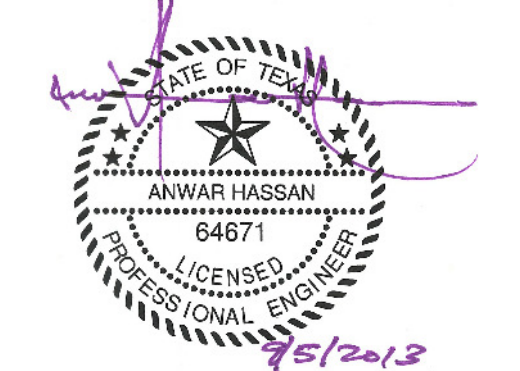
**E2.02**



**1 FLOOR PLAN - EQUIPMENT POWER**  
SCALE: 1/8" = 1'-0"



GENERAL NOTE:  
 1. ALL COLD WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS INSULATION. ALL HOT AND HOT WATER RETURN PIPING SHALL BE INSULATED AS FOLLOWS (1 1/4" AND BELOW 1" FIBERGLASS INSULATION SHALL BE USED) AND (1 1/2" AND ABOVE 2" FIBERGLASS INSULATION SHALL BE USED)



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Structural Engineer Consultant:

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**HOUSTON COMMUNITY COLLEGE**

**HCC ALIEF BISSONNET - WORK FORCE BUILDING**

13803 BISSONNET ST.  
 HOUSTON, TEXAS

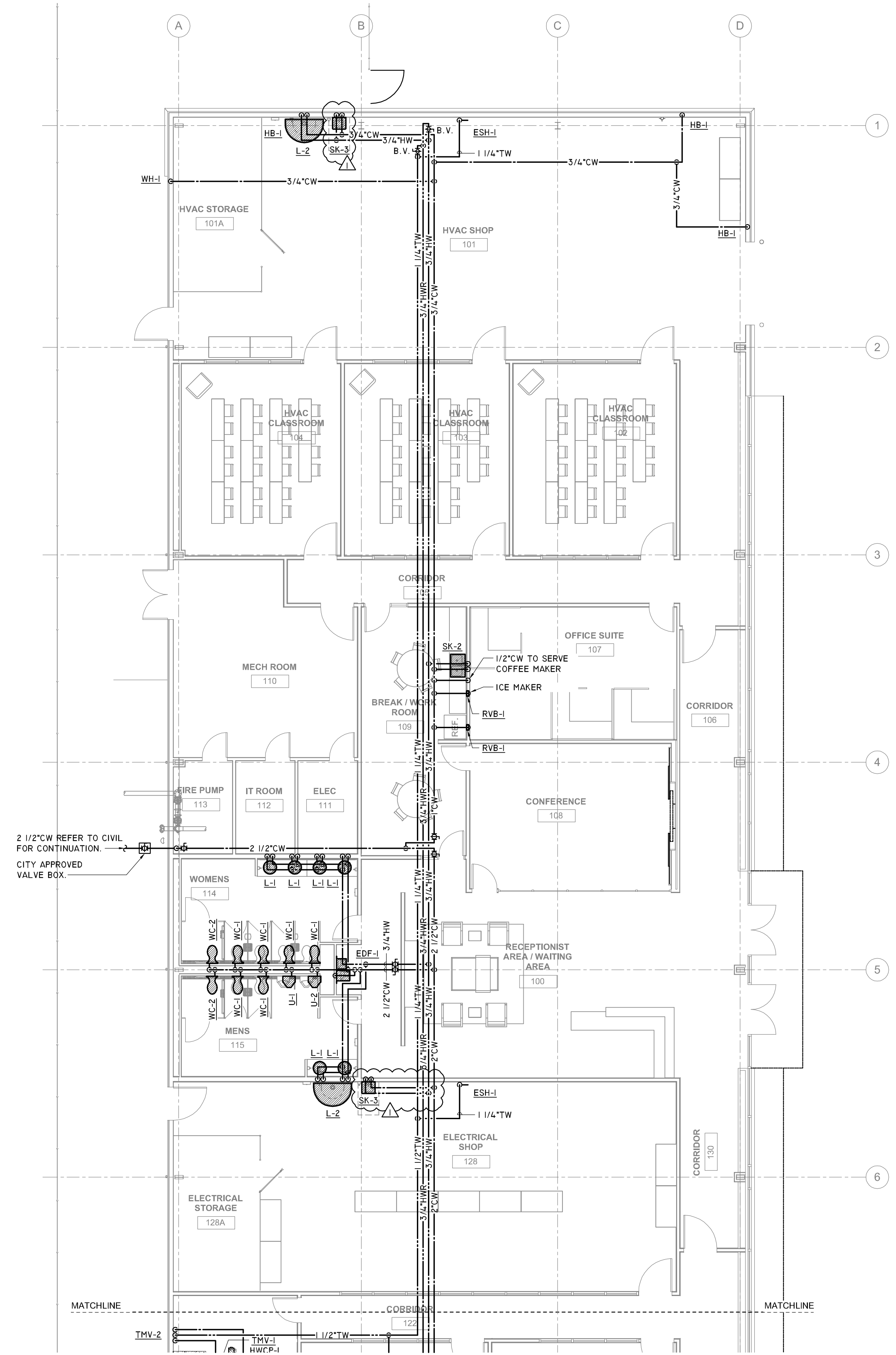
NO.	DATE	ADDENDUM #01 DESCRIPTION
9/5/2013		

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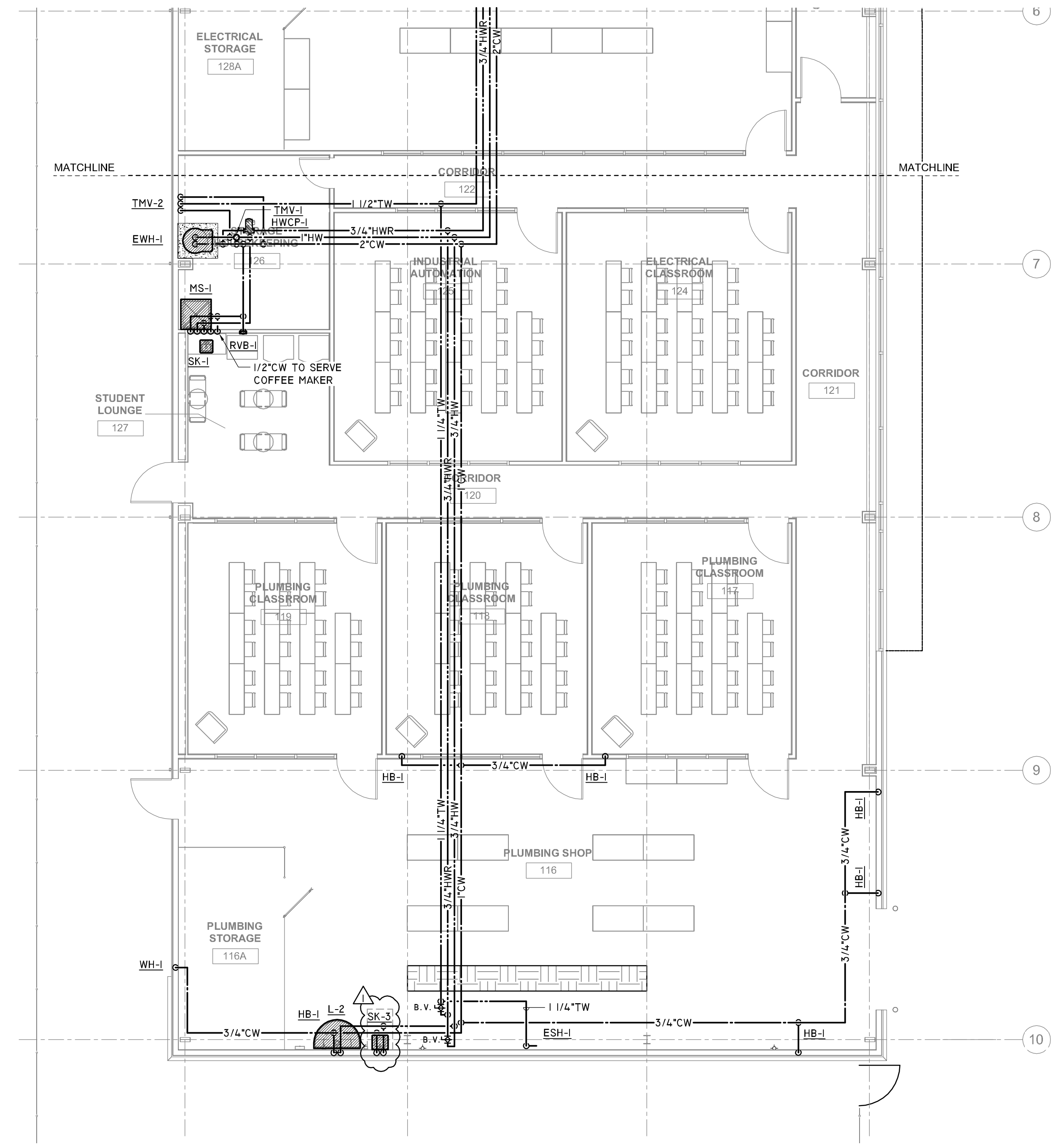
DATE: JULY 22, 2013  
 PROJECT NO.: R020213

**ENLARGED FLOOR PLAN - DOMESTIC**

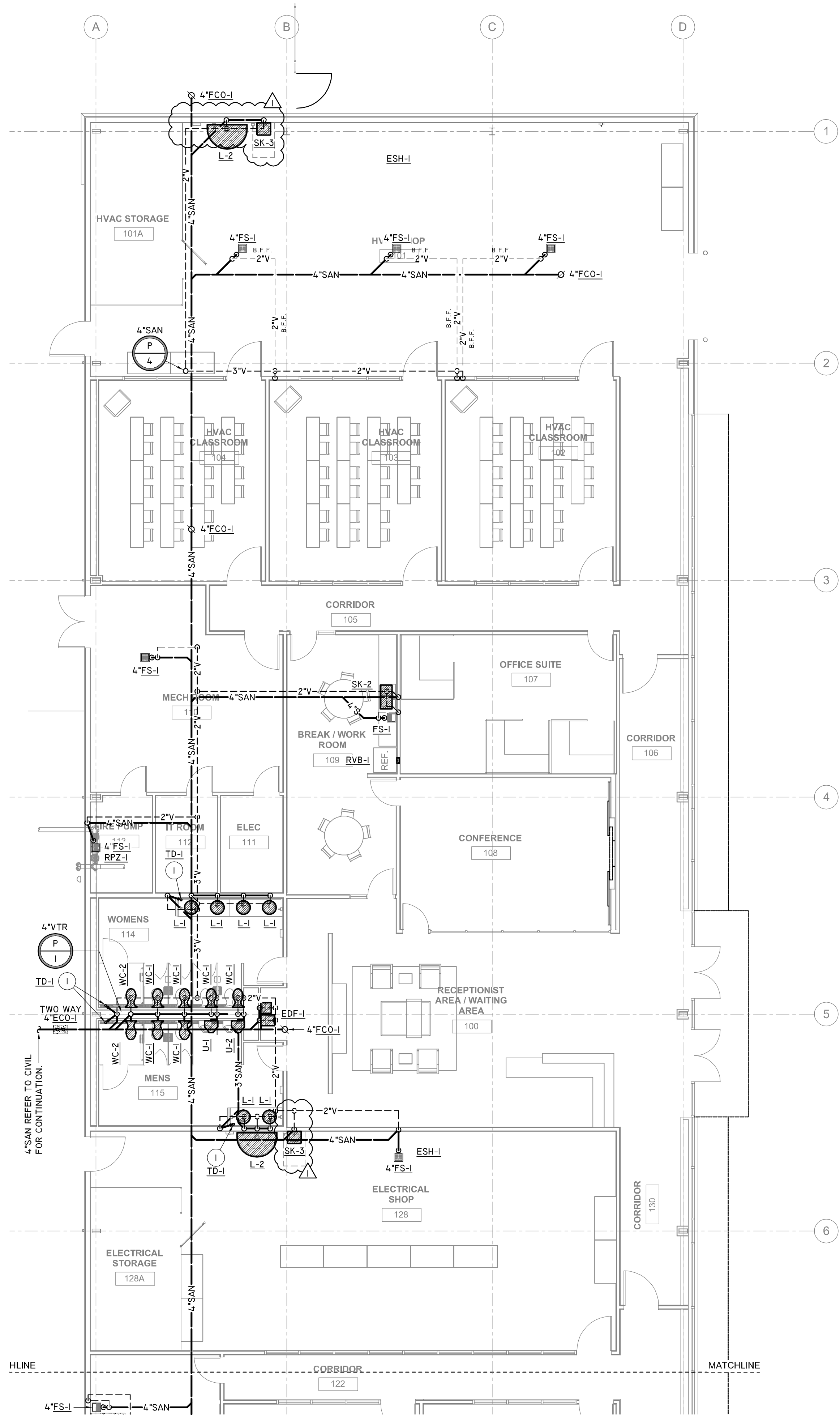
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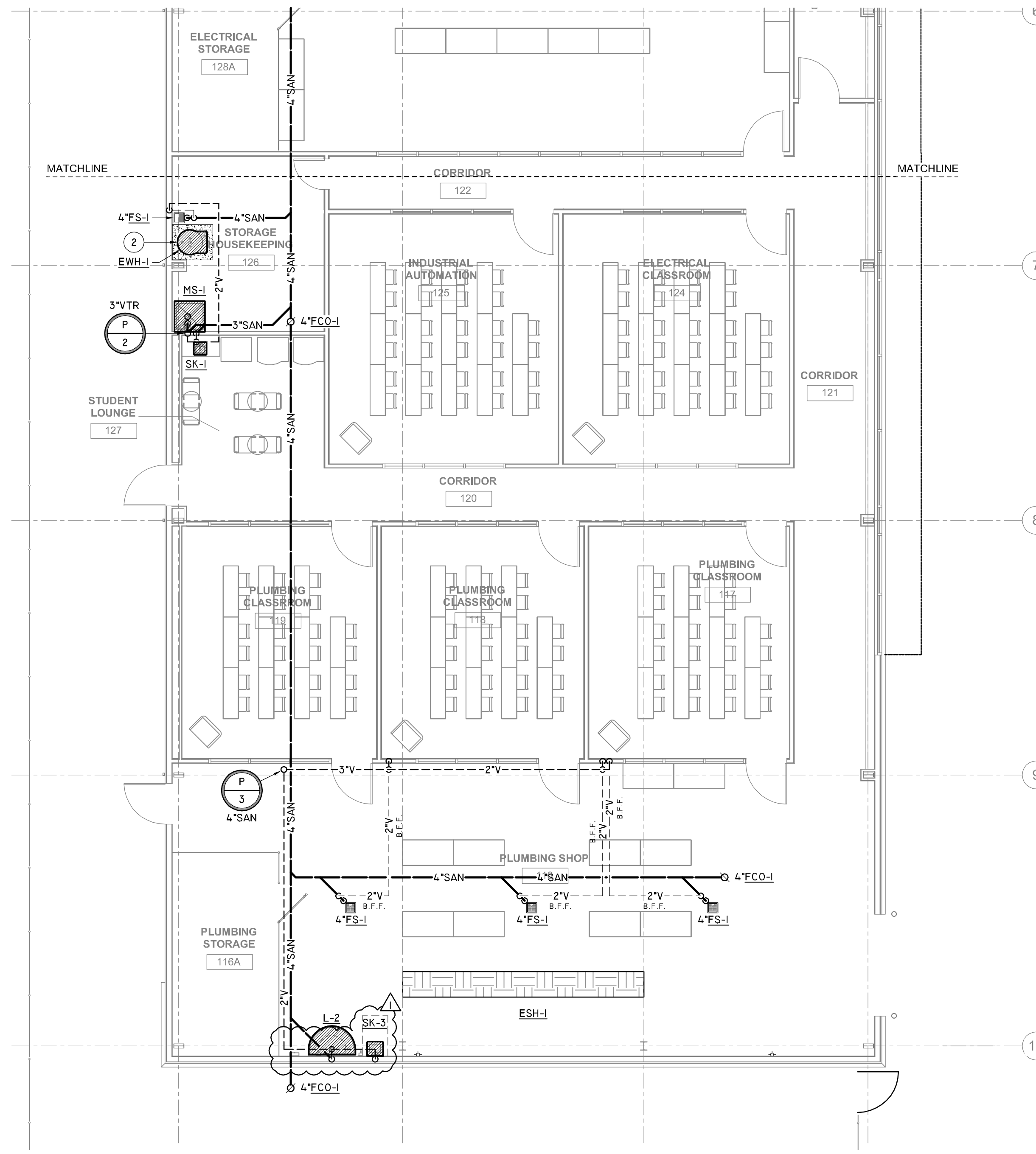
**2 FLOOR PLAN - DOMESTIC - AREA B**  
 SCALE: 1/8" = 1'-0"



**1 FLOOR PLAN - DOMESTIC - AREA A**  
 SCALE: 1/8" = 1'-0"



**2 FLOOR PLAN - SANITARY - AREA B**  
SCALE: 1/8" = 1'-0"



**1 FLOOR PLAN - SANITARY - AREA A**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTE:**  
1. ALL VENTS BELOW FINISHED FLOOR FOR FLOOR DRAINS, FLOOR SINKS, ETC. SHALL BE PIPED SEPARATELY TO NEAREST WALL CAVITY. VENTS SHALL NOT BE COMBINED BELOW SLAB.

- KEYED NOTES:**
1. TRENCH DRAIN. FIELD COORDINATE LENGTH OF EACH TRENCH DRAIN. THE TRENCH DRAIN SHALL SPAN THE FULL LENGTH OF THE BACK WALL WHERE WATER CLOSETS, URINALS AND LAVATORIES AREA SHOWN. REFER TO MANUFACTURES GUIDELINES AS REQUIRED TO INSTALL. TRENCH DRAIN PROPERLY. COORDINATE WITH STRUCTURAL FOR MOUNTING THE TRENCH DRAIN. REFER TO SCHEDULE SHEET FOR MORE INFORMATION AND MODEL.
  2. TRENCH DRAIN. FIELD COORDINATE LENGTH OF EACH TRENCH DRAIN. THE TRENCH DRAIN SHALL SPAN THE FULL LENGTH OF THE BACK WALL WHERE WATER CLOSETS, URINALS AND LAVATORIES AREA SHOWN. REFER TO MANUFACTURES GUIDELINES AS REQUIRED TO INSTALL. TRENCH DRAIN PROPERLY. COORDINATE WITH STRUCTURAL FOR MOUNTING THE TRENCH DRAIN. REFER TO SCHEDULE SHEET FOR MORE INFORMATION AND MODEL.

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**ENLARGED FLOOR PLAN - SANITARY**