



## Addendum 2

Client: City of Lowell  
Project: Maggie Osgood Library and City Hall Renovation  
Date: March 25, 2022  
To: Interested Bidder  
Prepared by: Curt Wilson, AIA; Principal, Wilson Architecture

This Addendum modifies the Project Manual, Specifications, and Drawings as follows:

1. General Information
  - 1.1. Addendum 1 was issued on March 23, 2022.
  - 1.2. A building was open for viewing on March 24, 2022 from 1:00-5:00 as described in the Ad for Bid. The sign up sheet for those that visited the building is attached to this document.
  - 1.3. The bid opening date remains March 31, 2022 at 2:00.
2. Changes to the Project Manual
  - 2.1. Section 00 0110 – Table of Contents
    - a. Division 12: Delete “12 2413 Roller Window Shade”.
  - 2.2. Section 00 4313 – Bid Bond
    - a. First sentence, fourth and fifth lines from the top: Replace “City of Roseburg” with *City of Lowell*”.
  - 2.3. Section 06 411 – Casework
    - a. Item 2.3 – Laminate Materials, add Item D to read:
      - D. Colors
        1. As scheduled. Architect to select from manufacturer’s standard color line.
    - b. Item 2.5-Accessories, add Item E to read:
      - E. Edge Banding
        1. Wood Veneer: .020 in. wood tape of matching species.
        2. Plastic Laminate: .020 in. PVC to match.
  - 2.4. Section 08 0607 – Door Hardware Schedule
    - a. Add this section.
  - 2.5. Section 08 1100 – Metal Doors and Frames

- a. Item 2.2.A – Steel Exterior Doors, 1.e: Change last phrase of sentence from “A40/ZF120 coating” to “A60 galvanized coating”.
  - b. Item 2.2.C – Interior Doors, Sound Rated: Delete items C.1 and C.2.
  - c. Item 2.3.A – Steel Frames, General Requirements: Add item A.6 to read:  
“6. Provide 14 gauge at door frames, 16 gauge at borrowed lite frames.”
- 2.6. Section 08 1416 – Flush Wood Doors
- a. Item 2.1.B – Interior Doors: Delete item B.3.
- 2.7. Section 09 0607 – Color Schedule
- a. 09 6813 – Tile Carpet, CP3 Walk Off Mat. Delete and replace with:  
“CP3 – Walk Off Mat; Obex, CutX, Closed, 11C; Milliken; Dark Grey.  
CP4 – Walk Off Mat; Obex, Grid, Vinyl, 110 Open; Milliken; Dark Grey.”
- 2.8. Section 09 3000 - Tiling
- a. Add this section.
- 2.9. Section 09 6813 Tile Carpeting
- a. Add this section.
3. Changes to the Drawings
- 3.1. Sheet D111 – Demo Plan
- a. Replace the sheet issued in the 2/28/2022 documents with the attached sheet.
  - b. In general, the changes represent:
    - Location of existing ceramic tile at entrance door to be demo'ed.
    - Demolition of gyp board with wall covering in Men's Room and other locations.
- 3.2. Sheet D121 – Demo Ceiling Plan
- a. The ceiling plan does not show the gray hatch at ACT AD2 at the future Lobby and Entrance, however the existing ceiling grid is shown correctly as to be deleted. To clarify, see A121 for existing ceiling system to remain, to be modified, and to be replaced with new in this area.
- 3.3. Sheet A111 – Floor Plan
- a. The header at the opening for Door 105.1 is 4x10 with 4x6 studs below at each end located at wall corners.
- 3.4. Sheet A112 – Finish Plan
- a. Replace the sheet issued in the 2/28/2022 documents with the attached sheet.

- b. In general, the changes represent:
    - Clarification to Casework Groups
    - Modifications to the extent of flooring types.
- 3.5. Sheet A121 – Ceiling Plan
- a. Replace the sheet issued in the 2/28/2022 documents with the attached sheet.
  - b. In general, the changes represent:
    - Clarification to Ceiling types.
    - Soffit board at new recessed entry.
    - Note to fill new and existing openings at interior barrier to attic.
- 3.6. Sheet A161 – Details
- a. Replace the sheet issued in the 2/28/2022 documents with the attached sheet.
  - b. In general, the changes represent:
    - Update door and relite frame details for HM frames.
    - Provide Partial Section at new recessed entry.
- 3.7. Sheet A172 – Interior Elevations
- a. Add General Notes C and D that read:

“C. COORDINATE TOILET ACCESSORY MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION OF GYP BOARD.”

“D. PROVIDE NEW LAVS AND FAUCET IN RESTROOMS. EXTEND DRAIN AND WATER CONNECTIONS IN FURRED WALL TO NEW LOCATION. FAUCET TO BE BATTERY-OPERATED SENSOR TYPE, SIMILAR TO “EUROSMART COSMOPOLITAN E, MODEL #36329000” BY GROHE. LAV TO BE DROP-IN TYPE, SIMILAR TO “PENNINGTON, K-2196-1” BY KOHLER. CONTRACTOR TO SIZE PIPING.”
- 3.8. Sheet A180 – Door and Window Information
- a. Replace the sheet issued in the 2/28/2022 documents with the attached sheet.
  - b. In general, the changes represent:
    - Modifications to Door Hardware Group assignments and reference to Spec Section 08 -0607 – Door Hardware Schedule.
    - Modifications of Sound performance requirements.
    - Revised dimensions of relite frames.
    - Modification to finish schedule for walls in Room 103 – Men’s Room.
- 3.9. Sheet E101 – Electrical

- a. Replace the sheet issued in the 2/28/2022 documents with the attached sheet.
- b. In general, the changes represent:
  - Delete all new electrical service work.

3.10. Sheet E102 – Data and Fire Alarm

- a. Change General Notes A and B to read:
  - A. SEE ALTERNATES FOR DATA. UNDER BASE BID PROVIDE ROUGH IN FOR DATA DEVICES. UNDER ALTERNATE BIDS PROVIDE COMPLETE STRUCTURED WIRING SYSTEM PER DRAWINGS AND SPECIFICATIONS.
  - B. SEE ALTERNATES FOR FIRE ALARM. UNDER BASE BID NO PROVISIONS FOR THE FIRE ALARM SYSTEM. UNDER ALTERNATE BIDS PROVIDE COMPLETE FIRE ALARM SYSTEM PER DRAWINGS AND SPECIFICATIONS.

4. Approved Product Substitutions

4.1. Approved Substitution Requests

- a. Section 10 2113.19 – Plastic Toilet Compartments
  - “Hiny Hiders Solid Plastic” by Scrantron Products.

**End of Addendum**

5. Attachments

- 5.1. Additional building visit session sign-in sheet, 3/24/2022.
- 5.2. Section 08 0607 – Door Hardware Schedule
- 5.3. Section 09 3000 - Tiling
- 5.4. Section 09 6813 – Tile Carpeting
- 5.5. Sheet D111 – Demo Plan
- 5.6. Sheet A112 – Finish Plan
- 5.7. Sheet A121 – Ceiling Plan
- 5.8. Sheet A161 – Details
- 5.9. Sheet A180 – Door and Finish Schedule
- 5.10. Sheet E101 - Electrical

MAGGIE OSGOOD LIBRARY AND CITY HALL  
RENOVATION PROJECT

BUILDING OPEN HOUSE - BID PERIOD

3/24/2022

~~sent~~  
sent-in

<u>NAME</u>	<u>COMPANY</u>	<u>TRADE</u>
Bill Bennett	Bennett Ceilings	Drywall
MATT Yocum	J&M Low Voltage	Low Voltage
Zachary Tillotson	Hermanson	Div 22/23



**SECTION 08 0607**

**DOOR HARDWARE SCHEDULE**

**Manufacturer List**

<u>Code</u>	<u>Name</u>
AC	Accurate Lock and Hardware
AL	Alarm Lock Systems
HA	HES
JO	L. E. Johnson Products, Inc.
LCN	LCN
MC	McKinney
NO	Norton
PE	Pemko
RO	Rockwood
RX	Rixson
SA	Sargent
SC	Schlage
YA	Yale

**Finish List**

<u>Code</u>	<u>Description</u>
26D	Satin Chrome
32D	Satin Stainless Steel
626	Satin Chromium Plated
630	Satin Stainless Steel
EN	Sprayed Finish, Aluminum
GRAY	Gray
US28	Aluminum - Clear Anodized
US26D	Chromium Plated, Dull
US32D	Stainless Steel, Dull

**Notes**

1. Provide software and cable for Alarm Lock units (ALPC12-U).

Column Headings

Quant.	Component	Product Description	Finish	Mfr
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**GROUP A Exterior with Operator, Keypad**

Door(s):	105.1			
3	Hinges	MPB99 4 1/2 X 4 1/2 NRP	32D	MC
1	Keypad/Prox Lockset	PDL3000IC Y	26D	ALAR
1	Permanent Core	1210 GMK	626	YA
1	Construction Core	1210 CMK	626	YA
1	Electric Strike Body	1006	630	HS
1	Faceplate	J	630	HS
1	Auto Operator With RF	6021 36" Door RF	689	NO
1	Wall Stop	409	US32D	RO
2	RF Actuators	535		NO
1	Wireless Receiver Module	RR-RECEIVER		ALAR
1	Seals	S88 D 17'		PE
1	Raindrip	346 C 40"		PE
1	Sweep	315 CN 36"		PE
1	Threshold	272 A 36" MSES25		PE

**GROUP B Exterior with Keypad**

Door(s):	107.2			
3	Hinges	MPB99 4 1/2 X 4 1/2 NRP	32D	MC
1	Keypad/Prox Lockset	PDL3000IC Y	26D	ALAR
1	Permanent Core	1210 GMK	626	YA

1	Construction Core	1210 CMK	626	YA
1	Closer	CPS7500	689	NO
1	Wall Stop	409	US32D	RO
1	Wireless Receiver Module	RR-RECEIVER		ALAR
1	Seals	S88 D 17'		PE
1	Raindrip	346 C 40"		PE
1	Sweep	315 CN 36"		PE
1	Threshold	272 A 36" MSES25		PE

**GROUP C Exterior with Lockset**

Door(s):	107.3			
3	Hinges	MPB99 4 1/2 X 4 1/2 NRP	32D	MC
1	Office Function Lockset	AU 4707LN 1210 PREP LESS CORE	626	YA
1	Permanent Core	1210 GMK	626	YA
1	Construction Core	1210 CMK	626	YA
1	Closer	CPS7500	689	NO
1	Seals	S88 D 17'		PE
1	Raindrip	346 C 40"		PE
1	Sweep	315 CN 36"		PE
1	Threshold	272 A 36" MSES25		PE

**GROUP D Interior with Keypad**

Door(s):	107.1			
3	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Keypad/Prox Lockset	PDL3000IC Y	26D	ALAR
1	Permanent Core	1210 GMK	626	YA
1	Construction Core	1210 CMK	626	YA
1	Closer	P7500	689	NO
1	Kick Plate	K1050 10" x 34" CSK HVBEV	US32D	RO
1	Wall Stop	409	US32D	RO
1	Wireless Receiver Module	RR-RECEIVER		ALAR
3	Silencers	608-RKW		GRAY
RO				

**GROUP E Interior with Lockset**

Door(s):	101.1			
3	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Classroom Function Lockset	AU 4708LN 1210 PREP LESS CORE	626	YA
1	Permanent Core	1210 GMK	626	YA
1	Construction Core	1210 CMK	626	YA
1	Kick Plate	K1050 10" x 34" CSK HVBEV	US32D	RO
1	Wall Stop	409	US32D	RO
1	Seals	S88 D 17'		PE

**GROUP E.1 Interior with Keypad Lockset**

Door(s):	108.1			
3	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Keypad/Prox Lockset	PDL3000IC Y	26D	ALAR
1	Permanent Core	1210 GMK	626	YA



1	Construction Core	1210 CMK	626	YA
1	Kick Plate	K1050 10" x 34" CSK HVBEV	US32D	RO
1	Wall Stop	409	US32D	RO
1	Seals	S88 D 17'		PE
<b>GROUP E.2 Interior with Lockset</b>				
Door(s): 114.1				
3	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Classroom Function Lockset	AU 4708LN 1210 PREP LESS CORE	626	YA
1	Permanent Core	1210 GMK	626	YA
1	Construction Core	1210 CMK	626	YA
1	Kick Plate	K1050 10" x 34" CSK HVBEV	US32D	RO
1	Wall Stop	409	US32D	RO
<b>GROUP F Interior with Keypad Lockset</b>				
Door(s): 106.1				
3	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Keypad/Prox Lockset	PDL3000IC Y	26D	ALAR
1	Permanent Core	1210 GMK	626	YA
1	Construction Core	1210 CMK	626	YA
1	Closer	7500	689	NO
1	Kick Plate	K1050 10" x 34" CSK HVBEV	US32D	RO
1	Wall Stop	409	US32D	RO
1	Wireless Receiver Module	RR-RECEIVER		ALAR
<b>GROUP G Interior with Office Lockset</b>				
Door(s): 112.2				
3	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Office Function Lockset	AU 4707LN 1210 PREP LESS CORE	626	YA
1	Permanent Core	1210 GMK	626	YA
1	Construction Core	1210 CMK	626	YA
1	Wall Stop	409	US32D	RO
1	Seals	S88 D 17'		PE
<b>GROUP H Interior with Double Keypad Lockset</b>				
Door(s): 112.1				
3	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Double Keypad Lockset	PDL5300	US26D	ALAR
2	Permanent Cylinder	1803-47L GMK	626	YA
2	Construction Core	1803-47L CMK	626	YA
1	Wall Stop	409	US32D	RO
1	Seals	S88 D 17'		PE
<b>GROUP I Interior with Passage Leverset</b>				
Door(s): 109.1				
2	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Passage Function Leverset	AU 4701LN	626	YA
1	Dome Stop	441CU	US26D	RO

**GROUP J Interior With Push/Pull Plates**

Door(s):	104.1			
3	Hinges	MPB68 4 1/2 X 4 1/2 NRP	26D	MC
1	Push & Pull Plate GROUP	110 X 73C/73CL	US32D	RO
1	Closer	7500	689	NO
1	Kick Plate	K1050 10" x 34" CSK HVBEV	US32D	RO
1	Wall Stop	409	US32D	RO
1	Seals	S88 D 17'		PE

**GROUP K - Interior with Occupancy Indicator**

Door(s):	103.1			
3	Hinges	MPB79 4 1/2 x 4 1/2 NRP	26D	MC
1	Privacy w/ Occpancy Indicator	AUR 8802FL IND	626	YA
1	Closer	7500	689	NO
1	Kick Plate	K1050 10" x 34" CSK HVBEV	US32D	RO
1	Wall Stop	409	US32D	RO
1	Seals	S88 D 17'		PE

**END OF SECTION**

## SECTION 09 3000

### TILING

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Tile for floor applications.
- B. Tile for wall applications.
- C. Non-ceramic trim.

##### 1.2 RELATED REQUIREMENTS

- A. Section 01 2000 – Price and Payment Procedures: Pay application process, change procedures.
- B. Section 01 3000 – Administrative Requirements: Submittal review procedures.
- C. Section 01 6000 – Product Requirements: Substitution request procedures.
- D. Section 01 7000 – Execution and Closeout Requirements: Closeout procedures.
- E. Section 07 9200 - Joint Sealants: Sealing joints between tile work and adjacent construction and fixtures.
- F. Section 09 0601 - Color Schedule.

##### 1.3 REFERENCE STANDARDS

- A. ANSI A108.1 thru 9 - American National Standard Specifications for Installation of Ceramic Tile; 2014.
- B. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 1999 (Reaffirmed 2010).
- C. ANSI A108.11 - American National Standard for Interior Installation of Cementitious Backer Units; 2010 (Revised).
- D. ANSI A108.12 - American National Standard for Installation of Ceramic Tile with EGP (Exterior glue plywood) Latex-Portland Cement Mortar; 1999 (Reaffirmed 2010).
- E. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone; 2005 (Reaffirmed 2010).
- F. ANSI A118.4 - American National Standard Specifications for Modified Dry-Set Cement Mortar; 2012 (Revised).
- G. ANSI A118.7 - American National Standard Specifications for High Performance Cement Grouts for Tile Installation; 2010 (Revised).
- H. ANSI A118.12 - American National Standard Specifications for Crack Isolation Membranes for Thin-set Ceramic Tile and Dimension Stone Installation; 2014.
- I. ANSI A137.1 - American National Standard Specifications for Ceramic Tile; 2013.1.
- J. ASTM C373 - Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products, Ceramic Tiles, and

Glass Tiles; 2014a.

- K. ASTM D4068 - Standard Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane; 2015.
- L. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; current edition.
- M. OSSC - Oregon Structural Specialty Code, latest edition.

#### 1.4 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data
  - 1. Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.
- C. Shop Drawings
  - 1. Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, ceramic accessories, and setting details.
- D. Samples
  - 1. Purpose: Verify color, pattern, and texture.
  - 2. Quantity: (2)
  - 3. Size: Actual
- E. Quality Assurance Submittals
  - 1. Design data/test reports
  - 2. Certificates
    - a. Demonstrate installer meets or exceeds the standards of this section.
- F. Manufacturer's Instructions
  - 1. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods.

#### 1.5 QUALITY ASSURANCE

- A. Qualifications
  - 1. Installer Qualifications: Company specializing in performing the work of this section with minimum three years of experience.
  - 2. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- B. Pre-Installation Meetings
  - 1. Convene one week before starting work of this section. Require attendance by all affected installers.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Acceptance at Site

1. Deliver materials in original packages, containers or bundles bearing brand name and identification of manufacturer or supplier.
  - B. Storage
    1. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic and other causes.
    2. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.
- 1.7 PROJECT/SITE CONDITIONS
- A. Do not install solvent-based products in an unventilated environment.
  - B. Maintain ambient and substrate temperature of 50 degrees F during installation of mortar materials.
- 1.8 EXTRA STOCK
- A. Extra Tile: 10 square feet of each size, color, and surface finish combination.
  - B. Store where directed by Owner.

## **PART 2 PRODUCTS**

### **2.1 PRODUCT GENERAL REQUIREMENTS**

- A. Manufacturers
  1. American Olean Corporation.
  2. Dal-Tile Corporation.
  3. Emser Tile, LLC.
  4. Summitville Tiles, Inc.
  5. Substitutions: See Section 01 6000 – Product Requirements.
- B. General Information
  1. Ceramic Mosaic Tile
    - a. ANSI A137.1, standard grade.
    - b. Moisture Absorption
    - c. 0 to 0.5 percent as tested in accordance with ASTM C373.
    - d. Surface Finish: Matte glazed.
    - e. Trim Units: Matching bead, cove, and surface bullnose shapes in sizes coordinated with field tile.
  2. Porcelain Wall Tile
    - a. ANSI A137.1, standard grade.
    - b. Moisture Absorption: 0 to 0.5 percent as tested in accordance with ASTM C373.

- c. Trim Units: Matching bullnose, double bullnose, cove base, and cove shapes in sizes coordinated with field tile.
  - 3. Porcelain Floor Tile
    - a. ANSI A137.1, and as follows:
    - b. Moisture Absorption: 0 to 0.5 percent.
- 2.2 CERAMIC TILE 1 – EXISTING FLOOR AND WALL TILE
  - A. Dimensions
    - 1. Size: 3 in. x 3 in.
    - 2. Thickness: Field verify
  - B. Edges: Match existing.
  - C. Surface Finish: Gloss
  - D. Color(s): Match existing.
  - E. Extent
    - 1. Floor Tile – Base Bid and Wall Tile – Base Bid per the Color Schedule.
    - 2. As required to repair floor and wall upon completion of scheduled demo.
- 2.3 PORCELIAN TILE 1 – FLOOR TILE
  - A. Dimensions
    - 1. Size: 12 in. x 12 in. nominal.
  - B. Edges: Square.
  - C. Surface Finish: Matte.
  - D. Color(s): See Color Schedule
  - E. Extent
    - 1. This tile type is applicable under the alternate.
    - 2. Floor Tile A – Alternate per the Color Schedule – Women’s Restroom.
    - 3. Floor Tile B – Alternate per the Color Schedule – Men’s Restroom.
- 2.4 PORCELIAN TILE 2 – WALL TILE
  - A. Dimensions
    - 1. Size: 4 in. x 4 in. nominal.
  - B. Edges: Square.
  - C. Surface Finish: Matte.
  - D. Color(s): See Color Schedule
  - E. Extent
    - 1. This tile type is applicable under the alternate.
    - 2. Architecture to provide direction on pattern during construction.

3. Wall Tile A – Alternate per the Color Schedule – Women’s Restroom.
  - a. 75% of wall tile area in the room.
4. Wall Tile B – Alternate per the Color Schedule – Women’s Restroom.
  - a. 25% of wall tile area in the room.
5. Wall Tile C – Alternate per the Color Schedule – Men’s Restroom.
  - a. 75% of wall tile area in the room.
6. Wall Tile D – Alternate per the Color Schedule – Men’s Restroom.
  - a. 25% of wall tile area in the room.

## 2.5 TRIM AND ACCESSORIES

### A. Ceramic Trim

1. Manufacturers: Same as for tile.
2. Matching bullnose, double bullnose, cove base, and cove ceramic shapes in sizes coordinated with field tile.

### B. Non-Ceramic Trim:

1. Manufacturer, Basis of Design:
  - a. Schuler Systems.
  - b. Substitutions: See Section 01 6000 – Product Requirements.
2. Satin natural anodized extruded aluminum, style and dimensions to suit application, for setting using tile mortar or adhesive.
3. Applications:
  - a. Open edges of wall tile: “JOLLY - #A80ATGB”.
  - b. Open edges of floor tile, including at door openings, same height: “SCHIENE”.
  - c. Open edges of floor tile, including at door openings, different height transitions: “RENO-TK”.
  - d. Expansion and control joints, floor and wall: “DECO”.

## 2.6 SETTING MATERIALS

### A. Latex-Portland Cement Mortar Bond Coat

1. ANSI A118.4, ANSI A118.15.
2. Products and Manufacturer:
  - a. “Complete Contact-LFT Premium Rapid Setting Large Format Tile Mortar, with Multi-Surface Bonding Primer” by Custom Building Products.
  - b. “Merkrete 735 Premium Flex” by Merkrete, by Parex USA.
  - c. “Permalastic System “ by ProSpec, an Oldcastle brand.
  - d. Substitutions: See Section 01 6000 - Product Requirements.

## 2.7 GROUTS

- A. Polymer Modified Grout
  - 1. ANSI A118.7 polymer modified cement grout.
  - 2. Type
    - a. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.
  - 3. Color(s)
    - a. Architect to select from manufacturer's available colors.
  - 4. Products and Manufacturer:
    - b. "Laticrete Permacolor Grout" by Laticrete International, Inc.
    - c. "Merkrete 735 Premium Flex" by Merkrete, by Parex USA.
    - d. "ProColor Sanded Tile Grout" by ProSpec, an Oldcastle brand.
    - e. Substitutions: See Section 01 6000 - Product Requirements.

## 2.8 MAINTENANCE MATERIALS

- A. Tile Sealant – See 07 9200 – Joint Sealant.
- B. Grout Sealer
  - 1. Liquid-applied, moisture and stain protection for existing or new Portland cement grout.
  - 2. Composition: Water-based colorless silicone.
  - 3. Products and Manufacturer
    - a. "Merkrete Grout Sealer" Merkrete, by Parex USA, Inc.
    - b. Substitutions: See Section 01 6000 - Product Requirements.

## 2.9 ACCESSORY MATERIALS

- A. Concrete Floor Slab Crack Isolation Membrane
  - 1. Material complying with ANSI A118.12; not intended as waterproofing.
  - 2. Type: Trowel-applied.
  - 3. Thickness: 20 mils, maximum.
  - 4. Crack Resistance: No failure at 1/16 inch gap, minimum.
  - 5. Extent: At floor tile under Alternate 1.
- B. Cementitious Underlayment
  - 1. Type: Cementitious type complying with ANSI A118.9; high density, glass fiber reinforced, 2 inch wide coated glass fiber tape for joints and corners.
  - 2. Thickness:
    - a. Wall: 1/2"
  - 3. Products and Manufacturer



- a. "WonderBoard Lite Backerboard" by Custom Building Products.
  - b. Substitutions: See Section 01 6000 - Product Requirements.
- C. Mesh Tape
- 1. 2 inch wide self-adhesive fiberglass mesh tape.

### **PART 3 EXECUTION**

#### **3.1 EXAMINATION**

- A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.
- B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive tile.
- C. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of setting materials to sub-floor surfaces.
- D. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by tile manufacturer and setting materials manufacturer.
- E. Verify that required floor-mounted utilities are in correct location.

#### **3.2 PREPARATION**

- A. Protect surrounding work from damage.
- B. Vacuum clean surfaces and damp clean.
- C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.
- D. Install backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of setting material to a feather edge.

#### **3.3 INSTALLATION - GENERAL**

- A. Install tile, thresholds, and stair treads and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.13, manufacturer's instructions, and TCNA (HB) recommendations.
- B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
- C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
- D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.
- E. Form internal angles square and external angles bullnosed.
- F. Install non-ceramic trim in accordance with manufacturer's instructions.
- G. Sound tile after setting. Replace hollow sounding units.
- H. Keep control and expansion joints free of mortar, grout, and adhesive.
- I. Keep expansion joints free of adhesive or grout. Apply sealant to joints.

- J. Prior to grouting, allow installation to completely cure; minimum of 48 hours.
  - K. Grout tile joints unless otherwise indicated. Use standard grout unless otherwise indicated.
  - L. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.
  - M. Install grout sealer at grout joints of porcelain tile per tile and grout manufacturer's instructions.
  - N. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.
- 3.4 INSTALLATION – FLOORS – THIN-SET METHODS
- 1. Over interior concrete substrates
    - a. install in accordance with TCNA (HB) Method F113, dry-set or latex-Portland cement bond coat, with standard grout, unless otherwise indicated.
- 3.5 INSTALLATION - WALL TILE
- A. Over cementitious backer units install in accordance with TCNA (HB) Method W223, organic adhesive.
  - B. Over wood studs without backer install in accordance with TCNA (HB) Method W231, mortar bed, with membrane where indicated.
- 3.6 CLEANING
- A. Clean tile and grout surfaces.
- 3.7 PROTECTION
- A. Do not permit traffic over finished floor surface for 4 days after installation, unless otherwise approved by manufacturer. Protect tile during curing process as recommended by manufacturer.

**END OF SECTION**

## SECTION 09 6813

### TILE CARPETING

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Carpet Tile

##### 1.2 RELATED REQUIREMENTS

- A. Section 01 2000 – Price and Payment Procedures: Pay application process, change procedures.
- B. Section 01 3000 – Administrative Requirements: Submittal review procedures.
- C. Section 01 6000 – Product Requirements: Substitution request procedures.
- D. Section 01 7000 – Execution and Closeout Requirements: Closeout procedures.
- E. Section 09 0601 – Color Schedule: Product, pattern, and finish.

##### 1.3 REFERENCE STANDARDS

- A. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- B. OSSC - Oregon Structural Specialty Code, latest edition.

##### 1.4 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data
  - 1. Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.
- C. Shop Drawings
  - 1. Indicate layout of joints, direction of carpet pile, and location of edge moldings.
- D. Samples
  - 1. Purpose: Selection of color and pattern.
  - 2. Quantity: (2).
  - 3. Size: Full size tiles.
- E. Manufacturer's Instructions
  - 1. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
  - 2. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

##### 1.5 QUALITY ASSURANCE

- A. Qualifications

1. Installer Qualifications: Company specializing in performing the work of this section with minimum three years of experience.
2. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

##### A. Acceptance at Site

1. Deliver materials in original packages, containers or bundles bearing brand name and identification of manufacturer or supplier.

##### B. Storage

1. Store materials in area of installation for minimum period of 24 hours prior to installation.
2. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic and other causes.

#### 1.7 EXTRA STOCK

- A. Quantity equal to 5 percent of total installed of each color and pattern installed.
- B. Store where directed by Owner.

### **PART 2 PRODUCTS**

#### 2.1 PRODUCT GENERAL REQUIREMENTS

##### A. Manufacturers

1. Interface, LLC
2. Mannington Commercial
3. Milliken
4. Patcraft; a division of Shaw Industries, Inc.
5. Shaw Contract Group.
6. Substitutions: See Section 01 6000 – Product Requirements.

##### B. Tile Carpeting

1. Construction: Tufted, manufactured in one color dye lot.
2. Backing: Solid, manufacturer's standard.

##### C. Walk Off Mat

1. Construction: Tufted, manufactured in one color dye lot.
2. Backing: Solid, manufacturer's standard.

#### 2.2 CARPET TILE 1 AND 2

##### A. Product and Manufacturer – Basis of Design

1. "Laylines Collection" by Milliken.

- B. Other Acceptable Manufacturers with similar products.
  - 1. See above.
- C. Tile Size
  - 1. 19.7 in. x 19.7 in. (50 cm x 50 cm) .
- D. Finishes
  - 1. Color: See Color Schedule.
  - 2. At CP2: Provide Solid, Horizontal Transition, Vertical Transition, Left Corner Transition, and Right Corner Transition units based on rectangular pattern per the Drawings.
- E. Installation Method
  - 1. Solid tiles, typ: Vertical Ashlar.
  - 2. Modular Zoning Components: Monolith.
  - 3. Carpet grain to run parallel to long dimension of the room. Verify with Architect.
- F. Extent
  - 1. Where CP1 and CP2 identified on the Drawings.

### 2.3 WALK OFF MAT 1

- A. Product and Manufacturer – Basis of Design
  - 1. “OBEX CutX, Closed” by Millikin.
- B. Other Acceptable Manufacturers with similar products.
  - 1. See above.
- C. Tile Size
  - 1. 7.87 in. x 7.87 in. (200 mm x 200 mm)
  - 2. Thickness: .43 in. (11 mm)
- D. Finishes
  - 1. Color: See Color Schedule
- E. Installation Method
  - 1. Monolithic.
- F. Extent
  - 1. Where CP3 identified on the Drawings.

### 2.4 WALK OFF MAT 2

- A. Product and Manufacturer – Basis of Design
  - 1. “OBEX Grid Vinyl 110 Open” by Millikin.
- B. Other Acceptable Manufacturers with similar products.
  - 1. See above.
- C. Tile Size

1. 7.87 in. x 7.87 in. (200 mm x 200 mm)

2. Thickness: .43 in. (11 mm)

D. Finishes

1. Color: See Color Schedule

E. Installation Method

1. Monolithic.

F. Accessories

1. Provide stainless steel, slip resistant transition strip with 1:12 max slope, and ¼ in. max abrupt vertical edge at existing sidewalk.

G. Extent

1. Where CP4 identified on the Drawings.

2.5 ACCESSORIES

A. Edge Strips

1. Embossed aluminum, color as selected by Architect.

2.6 RELATED MATERIALS

A. Sealer

1. Type recommended by flooring manufacturer.

B. Leveling and Underlayment Compound:

1. Latex cementitious type as recommended by adhesive manufacturer, having minimum density of 4,000 psi after 28 days.

C. Adhesives: Adhesive must meet the following requirements:

1. Recommended by the flooring manufacturer for application.

2. Meet or exceed the vapor barrier blockage requirement by the applicable flooring manufacturer for installation.

3. Solvent-free, water-resistant, mildew-resistant, non-flammable, low odor adhesive to suit resilient sheet flooring, resilient tie flooring, resilient base ][base, resilient stair covering, ]and accessories and substrate conditions indicated.

4. Have VOC content of less than 100 g/L.

**PART 3 EXECUTION**

3.1 EXAMINATION

A. Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.

B. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.

C. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and pH.

1. Test in accordance with ASTM F710.
2. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.

### 3.2 PREPARATION

- A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
- B. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler.
- C. Vacuum clean substrate.
- D. If required, apply concrete slab moisture barrier in accordance with manufacturer's instructions.

### 3.3 INSTALLATION

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Install carpet tile in accordance with manufacturer's instructions and CRI (CIS).
- C. Blend carpet from different cartons to ensure minimal variation in color match.
- D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.
- E. Install per specified installation method following manufacturer's recommendations. Set parallel to building lines.
- F. Locate change of color or pattern between rooms under door centerline.
- G. Trim carpet tile neatly at walls and around interruptions.
- H. Complete installation of edge strips, concealing exposed edges.

### 3.4 CLEANING

- A. Remove excess adhesive without damage, from floor, base, and wall surfaces.
- B. Clean and vacuum carpet surfaces.

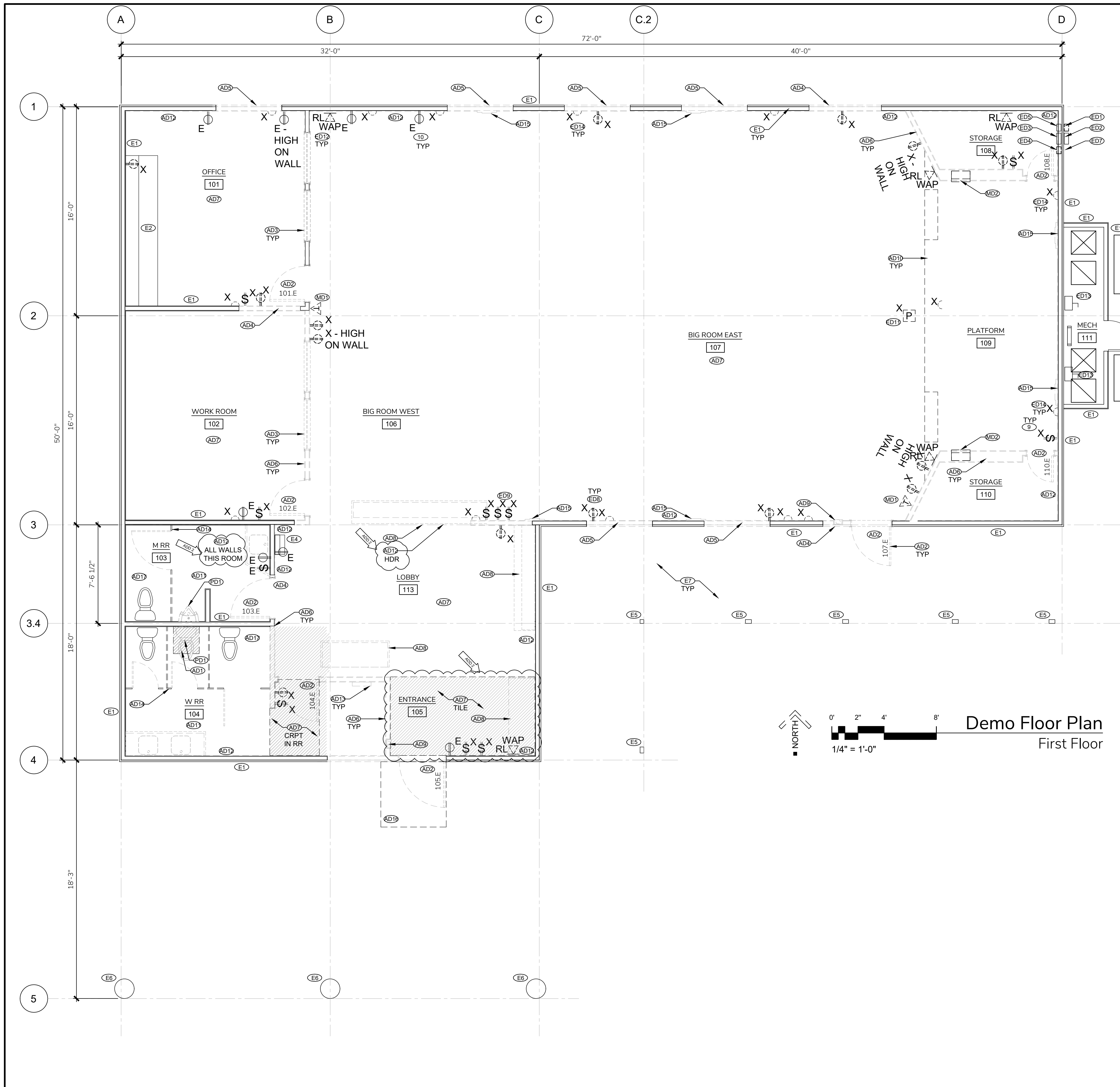
### 3.5 PROTECTION

- A. Protect from damage during the remainder of construction.

**END OF SECTION**







**WALL LEGEND - FLOOR PLAN**

- NEW WALL - THERMAL INSULATION
- NEW WALL - ACOUSTIC INSULATION
- NEW WALL - NO INSULATION
- EXST FRAMING, NEW FINISH
- EXST WALL TO REMAIN

**GENERAL NOTES - DEMO PLAN**

- A. SEE SHEET A121 FOR LIGHTING SYSTEM DEMO, AND DEMO OF HVAC DUCTWORK ABOVE CEILING.
- C. SEE SHEET E101 FOR SYMBOLS AND ADDITIONAL INFORMATION APPLICABLE HERE.
- D. SEE SPECIFICATION SECTION 02 4100 - DEMOLITION FOR ADDITIONAL DEMOLITION REQUIREMENTS.

**KEYNOTES - DEMO PLAN**

- PLUMBING DEMO**
- PD1. REMOVE PLUMBING FIXTURE. CAP WASTE PIPING 1" BELOW CONCRETE SLAB. AT WATER SUPPLY BETWEEN TWO FIXTURES TO REMAIN. REPLACE VALVE WITH SOLID PIPE. AT WATER SUPPLY NOT BETWEEN TWO FIXTURES, CAP PIPE AT NEXT FIXTURE TO REMAIN.
- MECHANICAL**
- MD1. REMOVE THERMOSTAT AND CONTROL WIRES.
  - MD2. REMOVE RETURN DUCT LOW RETURNS.
- ELECTRICAL DEMO**
- ED1. EXISTING IRRIGATION SPRINKLER SYSTEM JUNCTION BOX TO BE REMOVED.
  - ED2. EXISTING LANE ELECTRIC COOPERATIVE SERVICE AND METER BASE TO BE REPLACED WITH NEW 400 AMP METER BASE. REPLACE EXISTING 150 AMP TAP CONDUCTORS FEEDING THE HVAC UNIT ENCLOSED CIRCUIT BREAKER WITH NEW TAP CONDUCTORS FROM THE CT ENCLOSURE.
  - ED3. EXISTING SQUARE D QO PANELBOARD TO BE REUSED. ADD CIRCUIT BREAKERS AS NOTED ON PANEL SCHEDULE. DISCONNECT EXISTING TAP CONDUCTORS SERVING 150 AMP ENCLOSED CIRCUIT BREAKER.
  - ED4. EXISTING INTERMATIC TIME CLOCK TO BE REMOVED. EXTEND TWO EXISTING EXTERIOR LIGHTING CIRCUITS TO NEW RELAY PANEL LOCATION. SEE RELAY PANEL SCHEDULE
  - ED5. EXISTING 150/3 ENCLOSED CIRCUIT BREAKER SERVING MECHANICAL UNIT TO REMAIN. REFEED FROM NEW CT ENCLOSURE.
  - ED6. EXISTING IRRIGATION SPRINKLER CONTROL UNIT TO BE RELOCATED.
  - ED7. EXISTING SPECTRUM INTERNET SERVICE BOX TO BE REMOVED.
  - ED8. EXISTING DUPLEX RECEPTACLE TO BE REMOVED. REROUTE EXISTING BRANCH CIRCUIT CONDUCTORS TO NEW OUTLETS IF FEASIBLE.
  - ED9. EXISTING LIGHT SWITCHES TO BE REMOVED. PROVIDE NEW LIGHTING CONTROL DEVICES PER LIGHTING PLAN.
  - ED10. EXISTING DUPLEX RECEPTACLE TO BE REUSED. RECONNECT EXISTING BRANCH CIRCUIT CONDUCTORS IF AFFECTED BY DEMOLITION.
  - ED11. EXISTING PROJECTOR AND ASSOCIATED WIRING TO BE REMOVED
  - ED12. EXISTING WIRELESS ACCESS POINT TO BE RELOCATED. RESERVE FROM NEW NETWORK EQUIPMENT RACK.
  - ED13. EXISTING HVAC DISCONNECT SWITCH TO REMAIN.
  - ED14. EXISTING MICROPHONE OUTLETS TO BE REMOVED.

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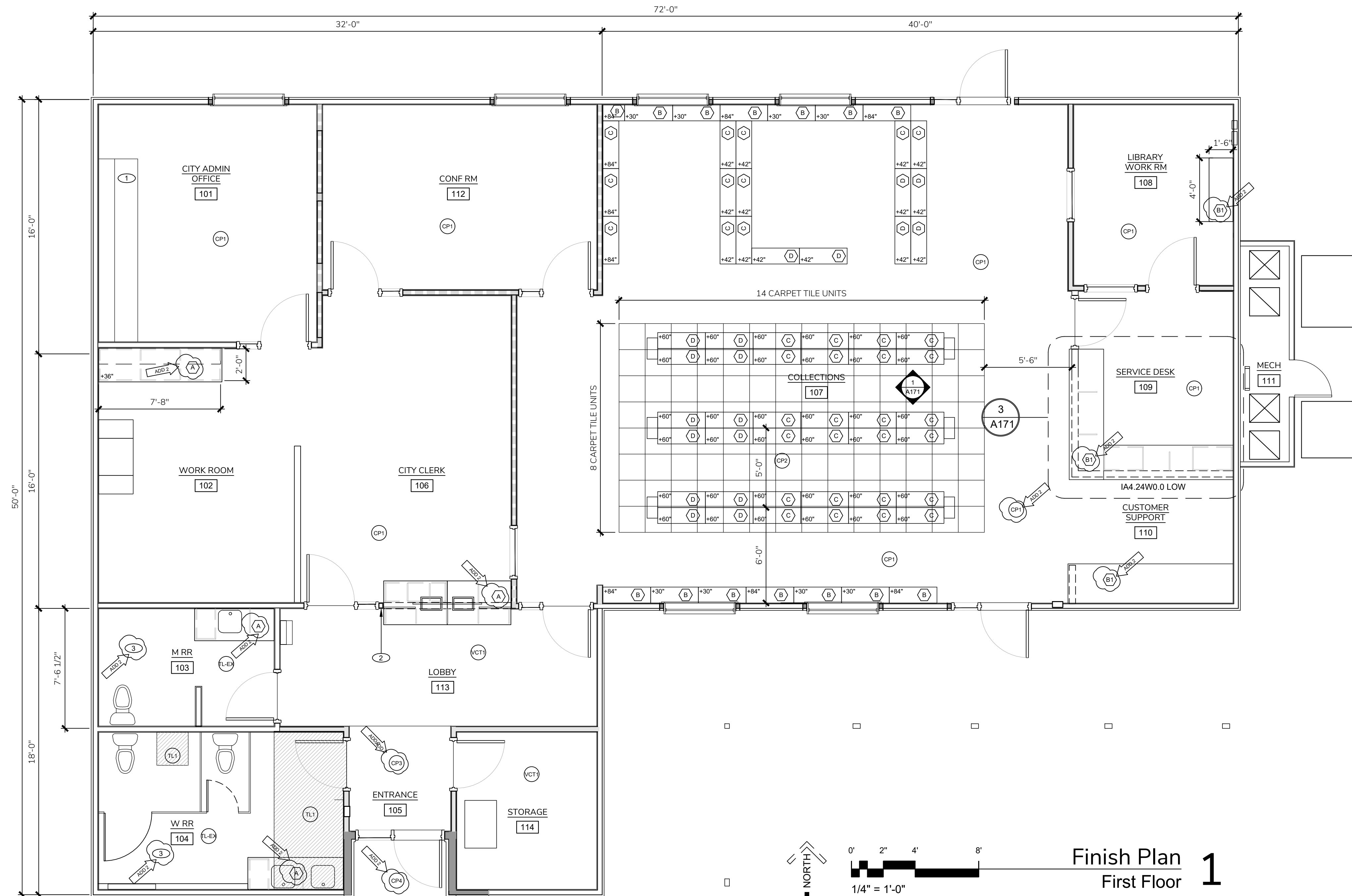


**COLEBREIT**  
ENGINEERING

- EXISTING**
- E1. WALL TO REMAIN. SEE BELOW FOR LOCATIONS WHERE EXST GYP BOARD FINISH TO BE REMOVED. GYP BOARD TO REMAIN UNLESS NOTED OTHERWISE.
  - E2. CASEWORK TO REMAIN. REMOVE AS REQUIRED TO PAINT ADJACENT WALLS AND REPLACE FLOORING.
  - E3. FLOORING TO REMAIN. SEE ALTERNATE FOR REPLACEMENT.
  - E4. DRINKING FAUCET TO REMAIN.
  - E5. WOOD POST TO REMAIN.
  - E6. CONCRETE COLUMNS. SEE A111 FOR REPAIRS.
  - E7. EXTERIOR HORIZONTAL SURFACES TO REMAIN UNLESS NOTED OTHERWISE.
- ARCHITECTURAL DEMO**
- AD1. REMOVAL SUFFICIENT WHOLE FLOOR TILE TO REMOVE PLUMBING FIXTURE AND CAP PIPING. DO NOT LEAVE PARTIALLY CUT NOR DAMAGED FLOOR TILE PIECE. REMOVE WHOLE WALL TILE TO CAP, REPAIR, AND ABANDON PLUMBING WATER SUPPLY(S).
  - AD2. DEMO DOOR AND FRAME.
  - AD3. DEMO INTERIOR RELITE.
  - AD4. PREP OPENING FOR NEW DOOR.
  - AD5. PREP OPENING FOR NEW WINDOW OR RELITE.
  - AD6. DEMO WALL.
  - AD7. DEMO FLOORING. PREP EXST SLAB FOR NEW FLOORING. REMOVE ABRUPT EDGES, AND ALL HIGH SPOTS.
  - AD8. DEMO CASEWORK.
  - AD9. DEMO FIRE EXTINGUISHER SHELF. PROVIDE FIRE EXTINGUISHER TO OWNER FOR REUSE.
  - AD10. DEMO RAISED PLATFORM DOWN TO EXST SLAB.
  - AD11. UNDER ALTERNATE, REMOVE ALL TILE IN EACH RESTROOM. PREP WALLS AND FLOORS FOR NEW TILE.
  - AD12. DEMO GYP BOARD ALONG THIS WALL WHERE FRAMING IS TO REMAIN.
  - AD13. WALL-MOUNTED DIAPER CHANGING STATION. REMOVE AND RELOCATE.
  - AD14. DEMO ALL TOILET PARTITION COMPONENTS IN THE ROOM.
  - AD15. DEMO WALL DECORATION.
  - AD16. SEE A001 FOR MODIFICATIONS TO CONCRETE SIDEWALK.
  - AD17. REMOVE AND SALVAGE GRAB BARS FOR REUSE. NOTE: NOT SHOWN IN THIS DRAWING.

**Demo Floor Plan 1**  
First Floor

Bid and Permit Set  
City of Lowell  
Maggie Osgood Library and  
City Hall Renovation



- GENERAL NOTES - FLOOR PLAN**
- INSTALL FLOORING BELOW FREE-STANDING CASEWORK (NOT ATTACHED TO A WALL).
  - CASEWORK GROUPS - BASE BID AND ALTERNATES:  
GROUP A: BASE BID  
GROUP B: ALTERNATE 4  
GROUP C: ALTERNATE 5  
GROUP D: ALTERNATE 6
  - SEE A171 FOR LIBRARY SHELVING INFORMATION.
  - PAINT ALL NEW AND EXISTING EXPOSED GYP BOARD.
  - PAINT ALL WALLS PAINT COLOR 1, EXCEPT AS NOTED BELOW.

- KEYNOTES - FLOOR PLAN**
- EXST CASEWORK TO REMAIN.
  - PAINT COLOR 2 ON THIS WALL, FLOOR TO CEILING, CORNER TO CORNER.
  - SEE ALTERNATES FOR CHANGES TO TILE IN RESTROOMS.

- CASEWORK TYPES**
- TYPE A: P.LAM COUNTERTOP, P.LAM CABINET
  - TYPE B: WOOD VENEER CABINET AND SHELVES
  - TYPE B1: P.LAM COUNTERTOP, P.LAM CABINET
  - TYPE C: WOOD VENEER CABINET AND SHELVES
  - TYPE D: WOOD VENEER CABINET AND SHELVES

- SYMBOLS LEGEND**
- ARCHITECTURAL
- IE4.24W2.0 WALL ASSEMBLY - SEE SHEET A160
  - 104.1 DOOR TYPE - SEE SHEET A180
  - W.A. WINDOW TYPE - SEE SHEET A180
  - (B) CASEWORK GROUPS
  - (CP2) FLOORING TYPES
  - (3 A171) DETAIL REFERENCE
  - (1 A171) INTERIOR ELEVATION REFERENCE
  - (1 A171) EXTERIOR ELEVATION REFERENCE
  - (1) KEYNOTE REFERENCE

Finish Plan  
First Floor **1**

Bid and Permit Set  
City of Lowell  
Maggie Osgood Library and  
City Hall Renovation



**GENERAL NOTES - CEILING PLAN**

- A. SEE SHEET E101 FOR LIGHT FIXTURE SCHEDULE AND SHEET E102 FOR LIGHTING CONTROL MATRIX.
- B. SALVAGE ALL WHOLE, UNDAMAGED CEILING TILE SCHEDULE TO BE REMOVED. SORT BY QUALITY OF APPEARANCE AND STORE ON SITE IN AREA PROTECTED BY CONSTRUCTION ACTIVITY. PRIOR TO INSTALLING SALVAGED TILE, REVIEW TILE WITH ARCHITECT AND PLAN FOR HOW TO SELECT WHICH TILES TO INSTALL IN EACH LOCATION.
- C. PROTECT AND SUPPORT EXISTING CEILING TILE AND GRID SCHEDULED TO REMAIN IN PLACE.
- D. COVER EXISTING AND NEW OPENINGS IN ORIGINAL CEILING MATERIAL ATTACHED TO UNDERSIDE OF ROOF STRUCTURE TO KEEP BLOWN-IN ATTIC INSULATION IN PLACE.

**KEYNOTES - CEILING PLAN**

- 1. REPLACE VOID WHERE CEILING-MOUNTED SPEAKER WAS REMOVED WITH SALVAGED TILE.
- 2. LOCATE TUBULAR SKYLIGHTS AS SHOWN ON THE CEILING PLAN CENTERED THROUGH CEILING TILE. COORDINATE ROUTING THROUGH EXISTING STRUCTURE. REVIEW PLACEMENT OF EACH SKYLIGHT WITH ARCHITECTURE PRIOR TO PENETRATING EXST ROOFING TO CONFIRM THERE IS SUFFICIENT CLEARANCE FROM EXST STRUCTURE TO PENETRATE THE CENTER OF THE CEILING TILE. IF NOT, IDENTIFY ALTERNATE LOCATIONS, MAINTAIN CLEAN, ORGANIZED LAYOUT, AND SEPARATE FROM LIGHTS TO THE FULLEST EXTENT POSSIBLE.
- 3. PAINT THE EXPOSED SOFFIT AND ROOF STRUCTURE ALL AROUND THE BUILDING.
- 4. THE SUB-NUMBER ON LIGHT FIXTURES A AND A2 ARE UNIQUE TO EACH EXST LIGHT. SEE DEMO PLAN FOR EXST FIXTURES TO BE REMOVED. THE FIXTURES HERE WITH A CORRESPONDING NUMBER IN A DIFFERENT LOCATION INDICATE A RELOCATED FIXTURE.
- 5. PROVIDE 2x6 FRAMING @ 16" O.C. TO FILL OPENING WITH NEW LEDGER ALL AROUND. SECURE 3/4" PLYWOOD ALL ACROSS TOP.
- 6. RELOCATE RECESSED PROJECTION SCREEN. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
- 7. FIBERCEMENT SOFFIT BOARD MOUNTED TO UNDERSIDE OF EXISTING ROOF STRUCTURE. PAINT.

**LIGHTING NOTES**

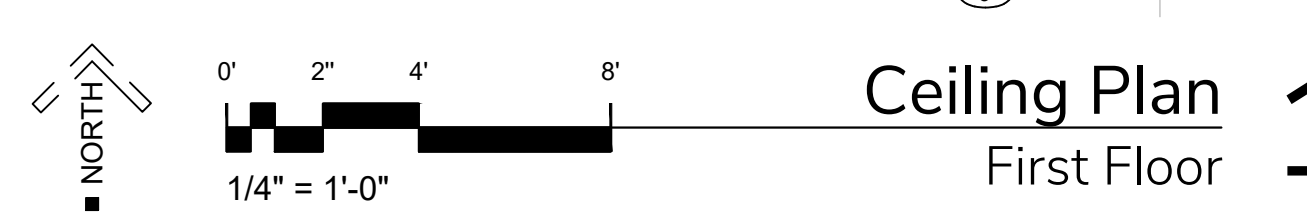
- E1. INSTALL ONE ZONE DAYLIGHT SENSOR TO CONTROL TYPE A LIGHT FIXTURES. TYPE A LIGHT FIXTURES IN DAYLIGHT ZONE. RUN 1-10VDC TO NEW TLED DRIVERS AS REQUIRED.
- E2. NEW LIGHTING CONTROL ENTRY STATION WITH LOW VOLTAGE INPUT TO RELAY PANEL.
- E3. REPLACE EXISTING TIME CLOCK WITH 4 ZONE, FLUSH MOUNTED RELAY PANEL. SEE RELAY PANEL SCHEDULE.
- E4. CONNECT NEW AND EXST EXTERIOR LIGHT FIXTURE TO NEW RELAY PANEL.

**LIGHT FIXTURE AND CONTROLS LEGEND**

- FIXTURE A, A2, B  
2x4  
NEW, RELOCATED, OR EXISTING
- FIXTURE F  
2x4  
EXISTING
- FIXTURE C  
2x2  
NEW
- FIXTURE D  
RECESSED CAN  
NEW
- FIXTURE E  
EXIT SIGN WITH EMERGENCY LIGHT  
NEW OR RELOCATED
- FIXTURE F  
EMERGENCY LIGHT  
NEW OR RELOCATED
- EXISTING TO DEMO OR RELOCATE
- WALL-MOUNTED DIMMER SWITCH
- EXISTING SWITCH
- DEMO SWITCH
- LOW VOLTAGE SWITCH STATION
- SINGLE ZONE DAYLIGHT SWITCH
- WALL-MOUNTED OCCUPANCY SENSOR
- WALL-MOUNTED OCCUPANCY SENSOR WITH DIMMER SWITCH
- CEILING-MOUNTED OCCUPANCY SENSOR

**CEILING LEGEND**

- ACT CEILING SYSTEM A1  
• EXISTING GRID  
• EXISTING CEILING TILE
- GYP CEILING SYSTEM G1  
• EXISTING CEILING FRAMING  
• EXISTING GYP BRD. PAINT
- ACT CEILING SYSTEM A2  
• NEW GRID  
• NEW CEILING TILE
- ACT CEILING SYSTEM A3  
• EXISTING GRID  
• NEW CEILING TILE
- ACT CEILING SYSTEM A4  
• EXISTING GRID  
• RELOCATED CEILING TILE
- GYP CEILING SYSTEM G2  
• EXISTING CEILING FRAMING  
• NEW GYP BRD. PAINT
- GYP CEILING SYSTEM G3  
• NEW CEILING FRAMING  
• NEW GYP BRD. PAINT
- TUBULAR SKYLIGHT
- EXISTING CEILING-MOUNTED SPEAKER



Ceiling Plan 1  
First Floor

**SCOPE OF WORK - LIGHTING AND LIGHTING CONTROL SYSTEM**

**Existing Condition**

4 lamp T8 troffers are used throughout the building. These are supplemented by wall sconces with Compact fluorescent lamps, and a few incandescent lampholders. A time clock, located next to the electrical panel currently serves exterior light fixtures which includes a pole mounted HID floodlight and building mounted security lights. Main area lighting is switched from a bank of switches located near the entry to the assembly area. Smaller rooms have local controls.

Existing emergency lighting is provided by unit equipment. These fixtures will be reused and new units provided as required to meet Owner needs and Code requirements.

**Scope of Work**

A new electrical service to 400 amp meter base will be provided. The existing service panel will be reused. Existing HVAC equipment and associated electrical branch circuits will be reused. The 150 amp enclosed circuit breaker will be refed from the new meter base. Existing lighting circuits will be rerouted to new light fixture locations. Similarly, existing receptacle branch circuits will be rerouted to new receptacle locations. Provide new branch circuits as noted on panel schedule and Architectural electrical floor plan

**Additional Requirement**

- 1. Architectural reflected ceiling plan A121 shows light fixture and ceiling mounted lighting control device locations.
- 2. Lighting control matrix, Drawing E101, indicates lighting control devices to be provided in each building area.
- 3. Demolition plan D111 shows walls that will be removed and remain in place.
- 4. Demolition plan D121 show ceilings and light fixtures that will be removed and remain in place.
- 5. Specification section 262726 describes requirements at new and existing switches and lighting control devices.
- 6. Specification section 265000 describes light fixture installation requirements.
- 7. Lighting relay panel, Drawing E101, indicates lighting control zones with programmed control.
- 8. Light fixture schedule, Drawing E101 describes work at new and existing light fixtures.

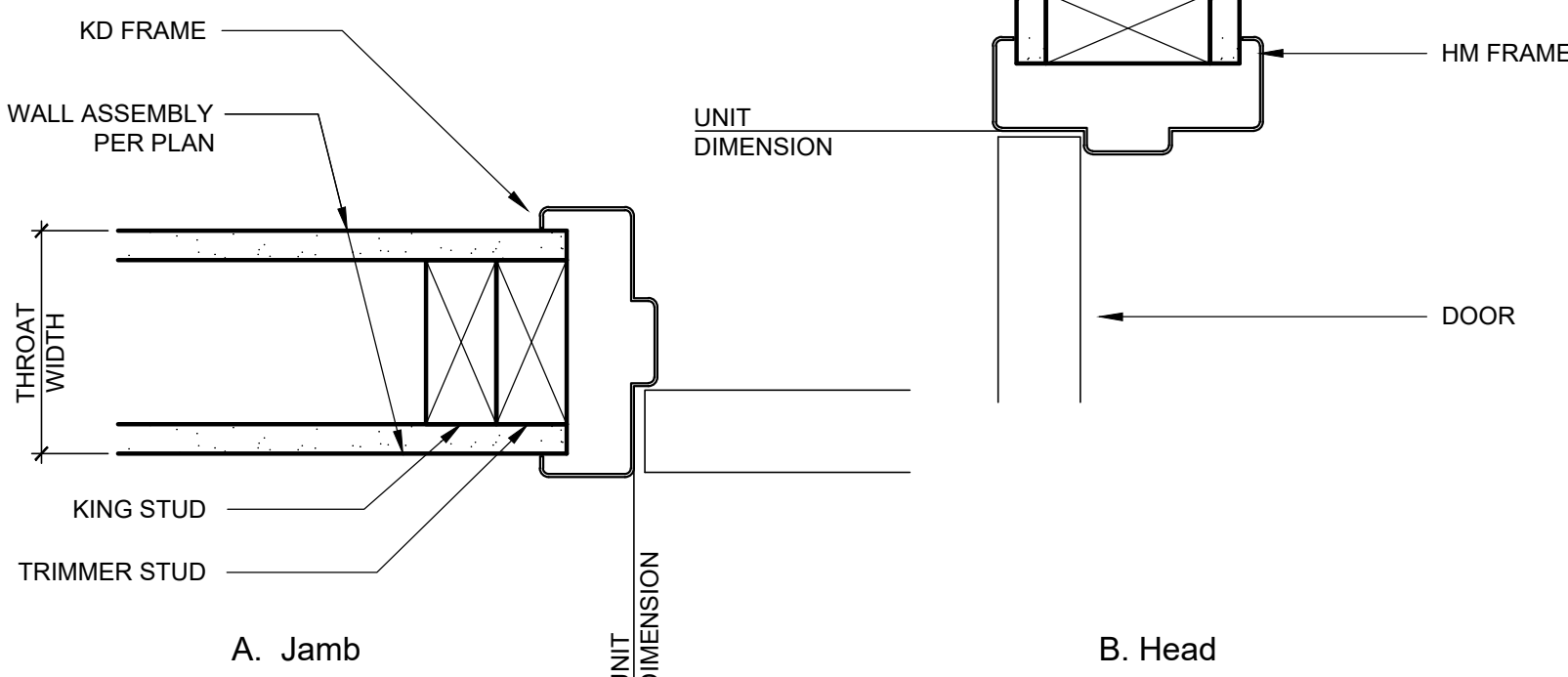
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**GENERAL NOTES**

A. ---

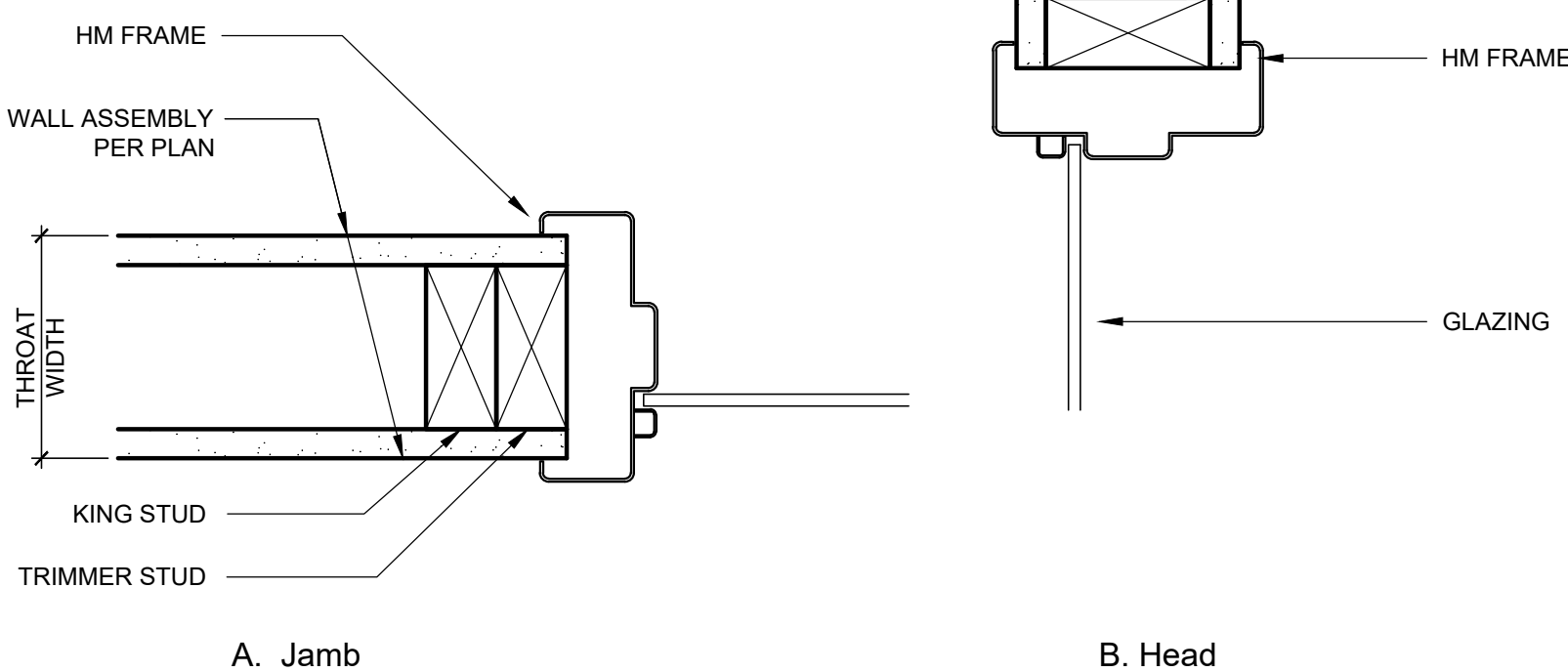
NOTE: VERIFY ROUGH OPENING  
RELATIVE TO FRAME DIMENSIONS WITH  
FRAME MANUFACTURER PRIOR TO  
FRAMING.



**Door Standard Details - Interior - HM Frame** 4

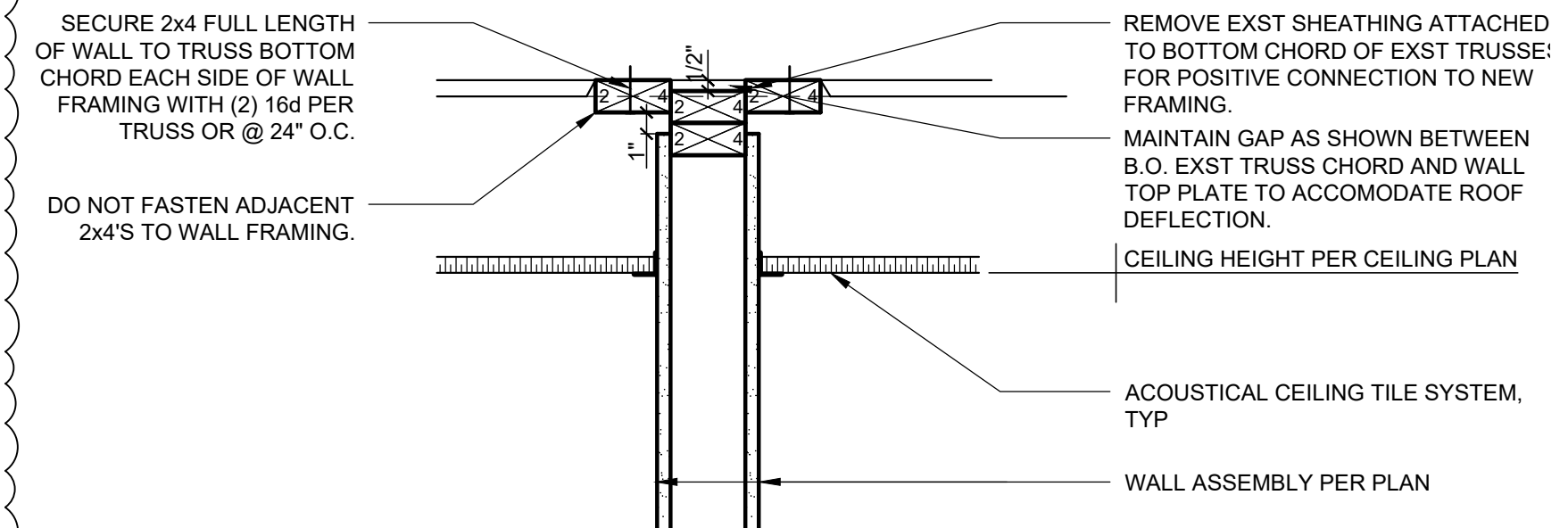
3" = 1'-0"

NOTE: VERIFY ROUGH OPENING  
RELATIVE TO FRAME DIMENSIONS WITH  
FRAME MANUFACTURER PRIOR TO  
FRAMING.



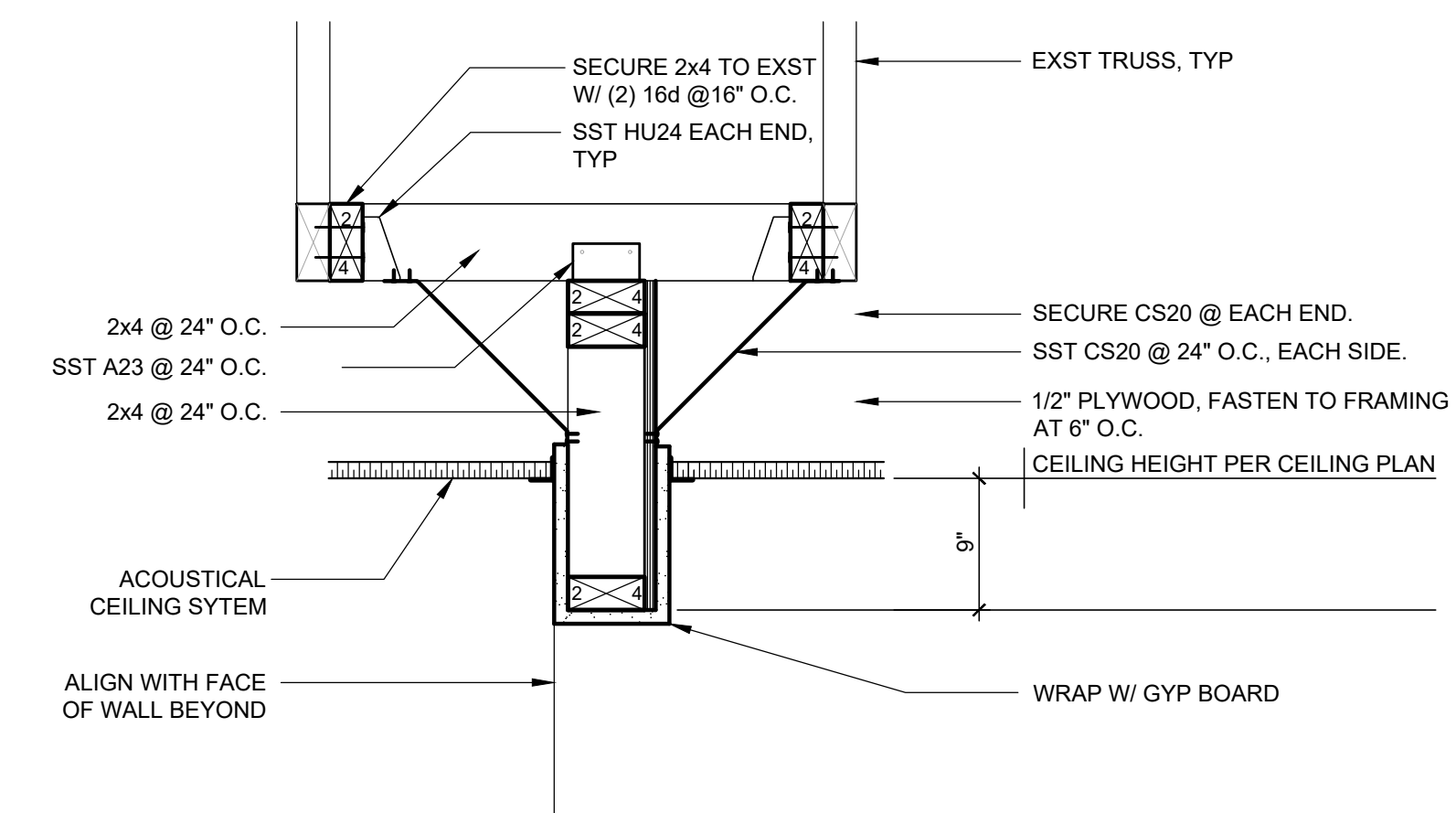
**Relite Details - Interior -HM Frame** 5

3" = 1'-0"



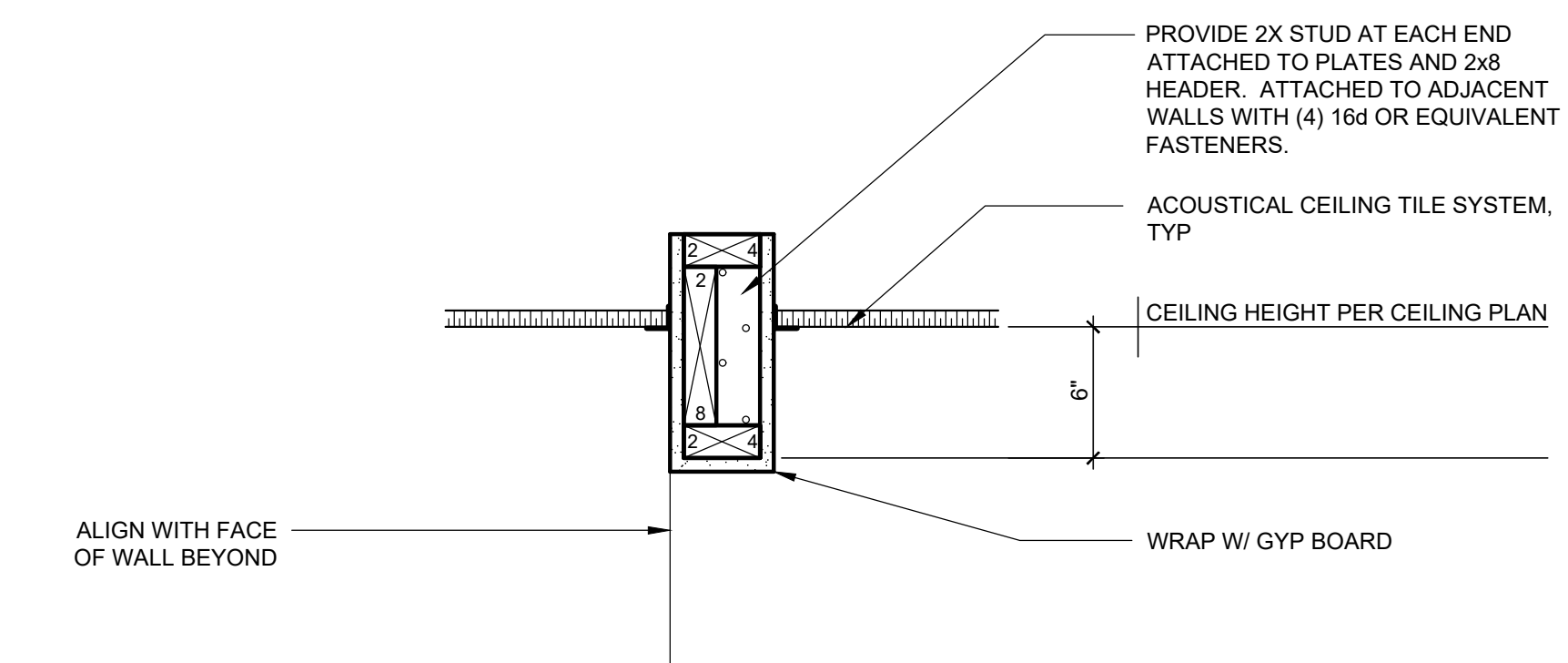
**Top of Wall Detail - Terminate above ACT** 1

1 1/2" = 1'-0"



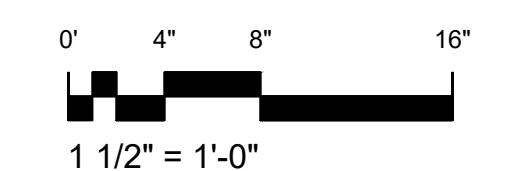
**Framed Header at ACT - Spans More Than 7 ft** 2

1 1/2" = 1'-0"



**Framed Header at ACT - Spans Less Than 7 ft** 3

1 1/2" = 1'-0"



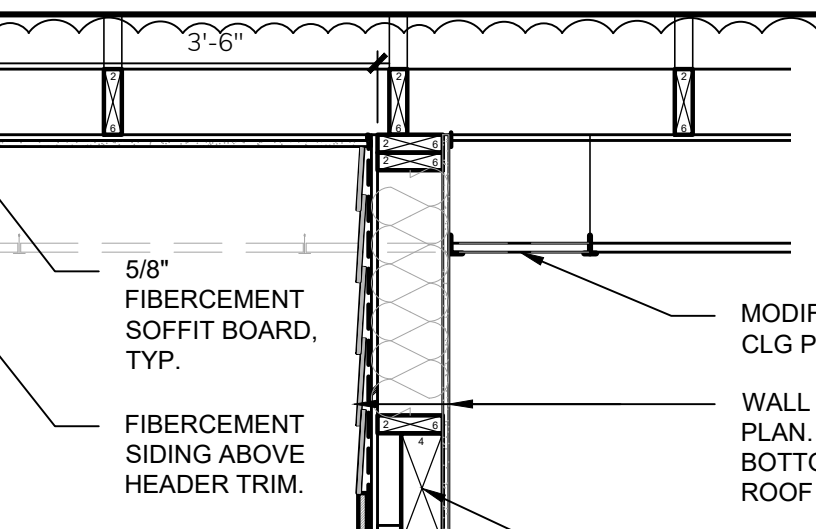
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Details

PROJECT: 21031  
CHECKED: CW  
DATE: 2/28/2022 REVISIONS: ADD 2 - 3/25/2022

A161

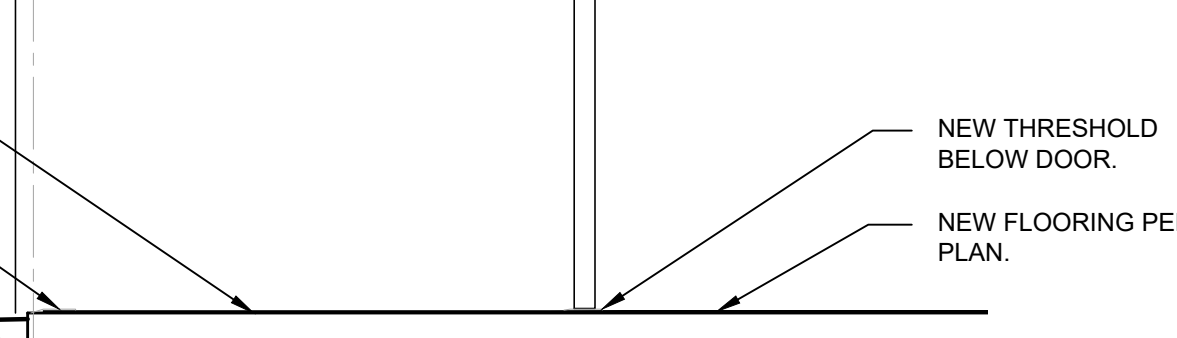
NEW 6x12 BEAM.  
SUPPORT WITH 4x6  
POSTS WITHIN NEW  
WALL FRAMING.  
SECURE POSTS TO  
EXST SLAB WITH SST  
OC60 POST BASE, AND  
POSTS TO BEAM WITH  
SST EPO8 POST CAP.  
CONNECT TO EXST  
2x8 LEDGER WITH 1/2"  
DIA LAGS AT 16" O.C..  
WRA P WITH  
HARDI-TRIM 3/4" x 7  
1/4" AT BOTTOM AND  
3/4" x 3 1/2" ON SIDE.



**New Recessed Entry** 7

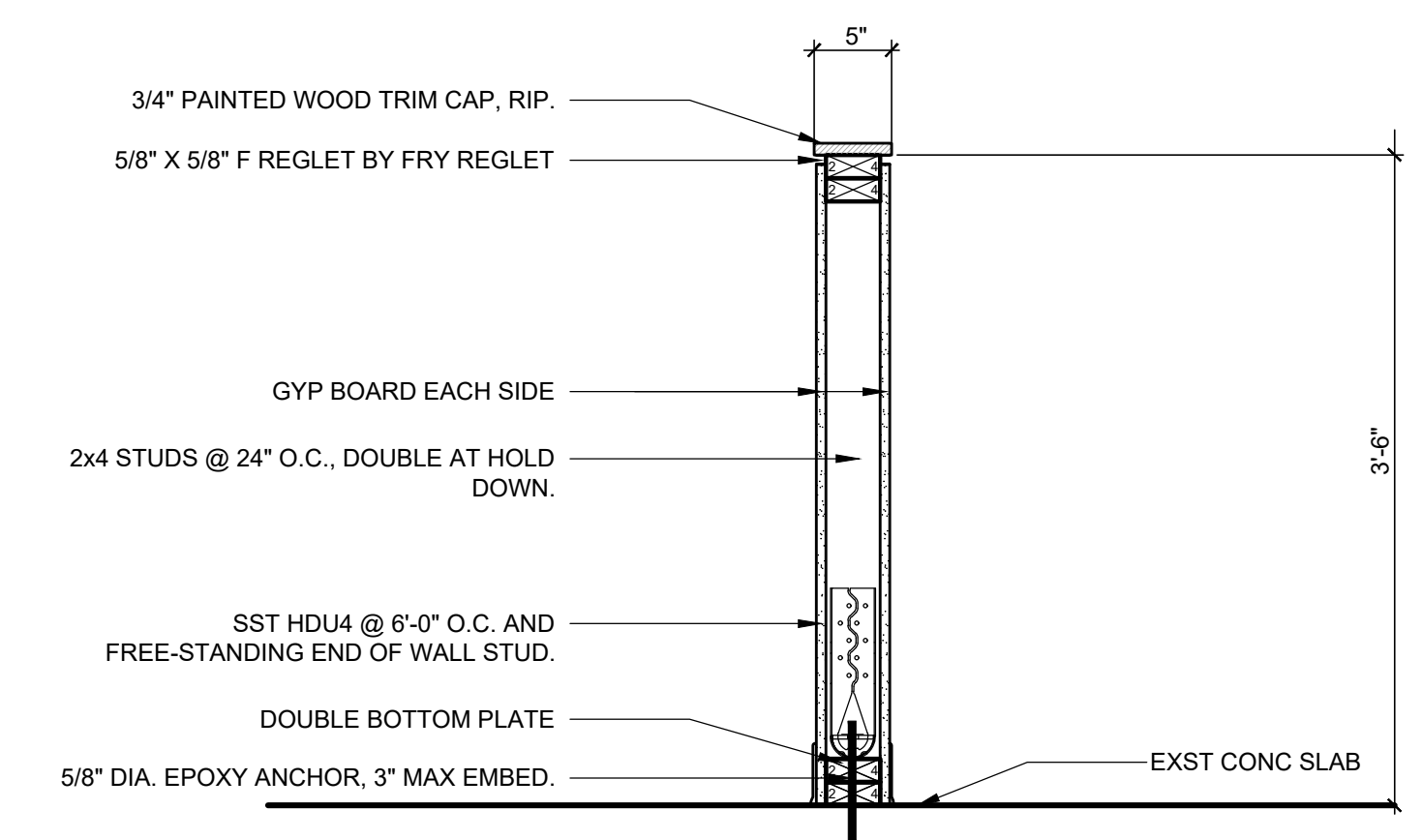
3/4" = 1'-0"

NEW EXTERIOR WALK  
OFF MAT PER FINISH  
PLAN.  
NEW TRANSITION  
STRIP.  
MODIFY SIDEWALK  
PER SITE PLAN.



**Low Wall** 8

1 1/2" = 1'-0"



Section

6





**GENERAL NOTES - ELEC PLAN**

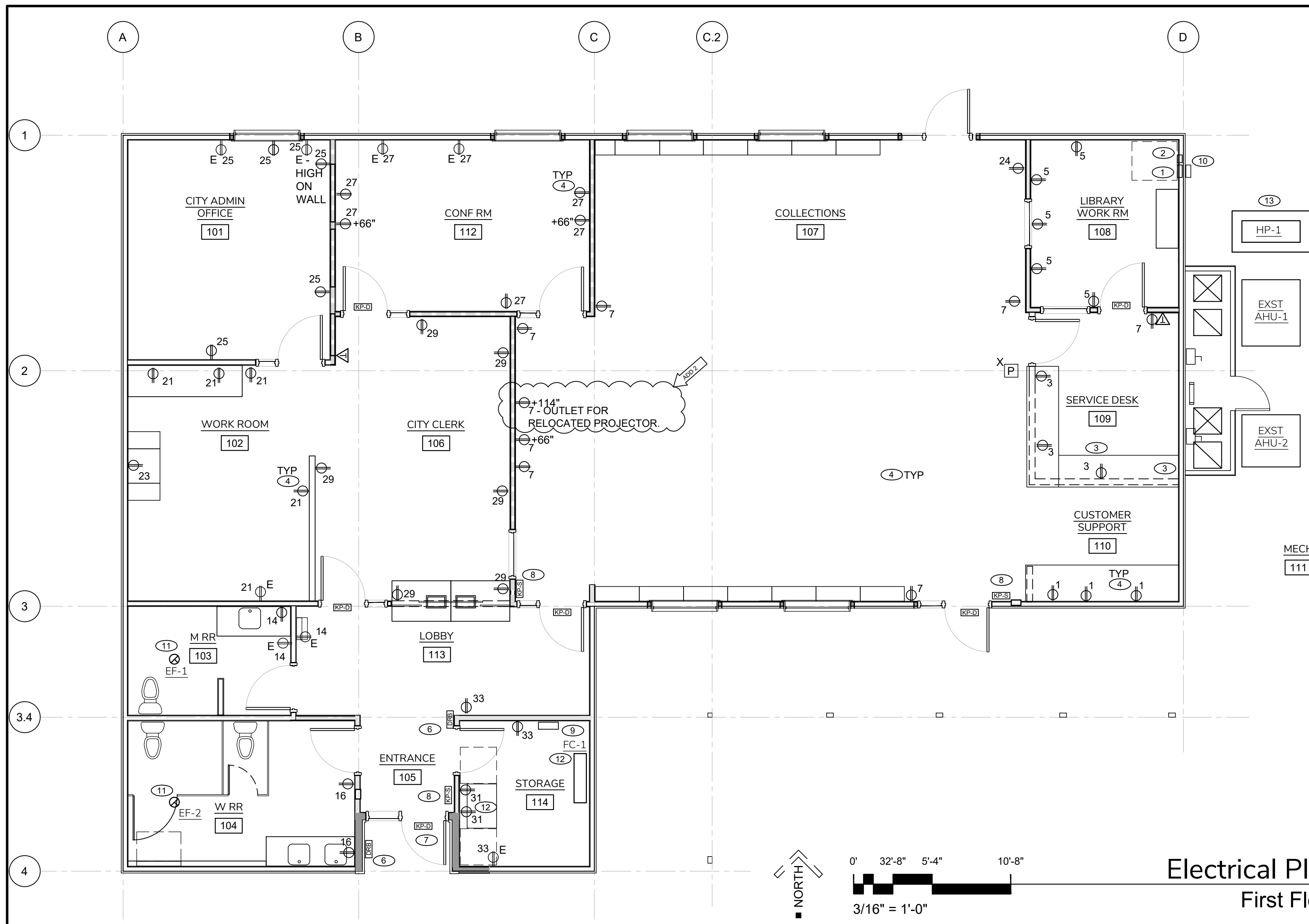
- A. SEE SHEET D111 AND D121 FOR DEMOLITION RELATED WORK AND INFORMATION.
- B. SEE SHEET A121 FOR LIGHT FIXTURE LAYOUT AND RELATED INFORMATION.

**KEYNOTES - ELECTRICAL PLAN**

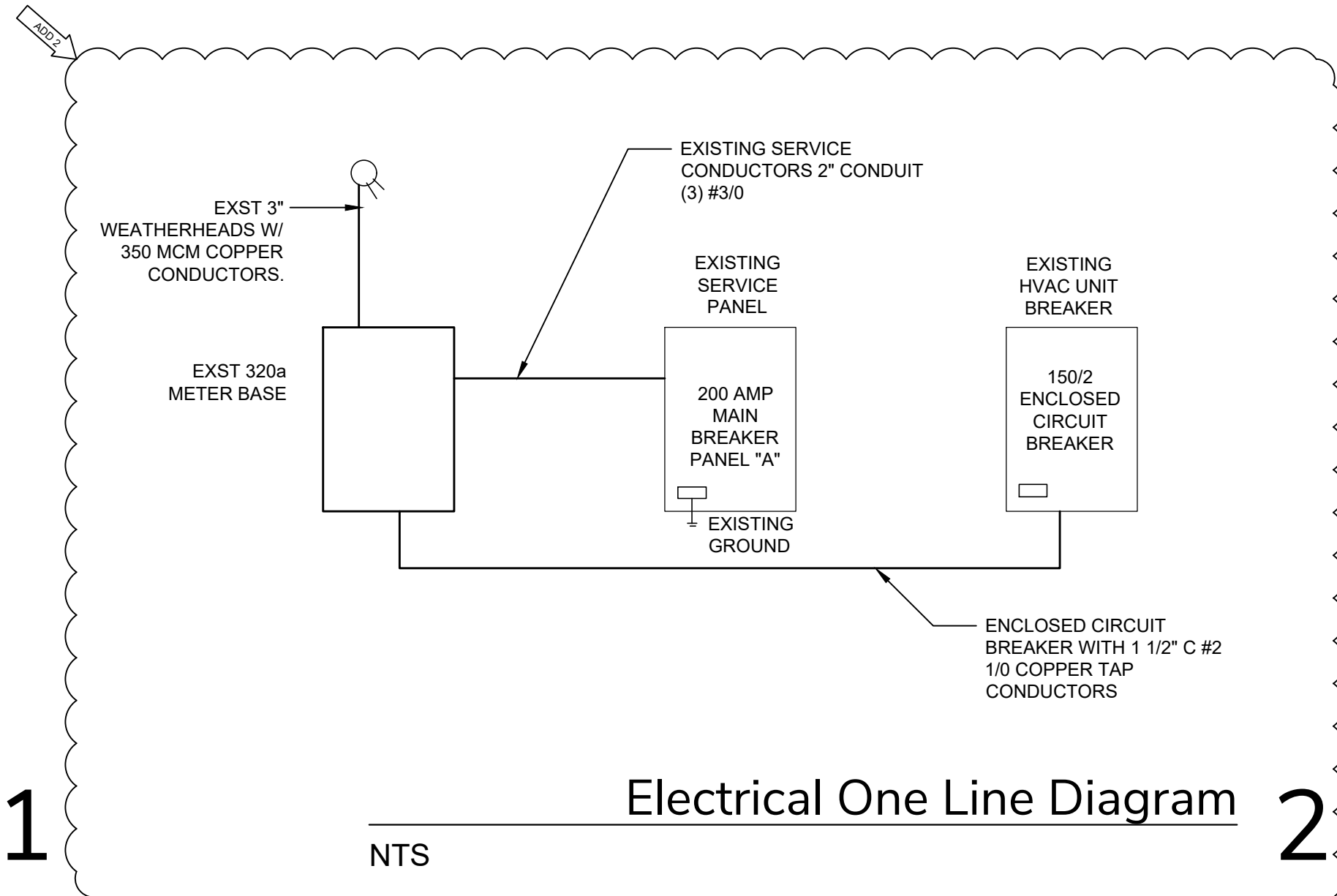
1. EXISTING ELECTRICAL PANEL TO REMAIN. ADD CIRCUIT BREAKERS AS NOTED IN PANEL SCHEDULE.
2. NEW FLUSH MOUNTED, 4 CIRCUIT RELAY PANEL. SEE RELAY PANEL SCHEDULE.
3. RUN 1/2" NETWORK FACEPLATE CONDUIT AND ELECTRICAL BRANCH CIRCUIT MC CABLE CONCEALED IN EXTERIOR WALL AND TRANSITION TO FREESTANDING WORK STATION TO FEED OUTLETS MOUNTED IN WORK STATION FURNITURE.
4. NUMBER AT RECEPTACLES DESIGNATES CIRCUIT NUMBER ON EXISTING BRANCH CIRCUIT PANELBOARD.
5. MOUNT DUPLEX OUTLETS AT +36" AND +72" AT NETWORK EQUIPMENT RACK LOCATION.
6. PROVIDE FOUR SQUARE BOX AT DOOR OPERATOR PUSH PAD LOCATION RUN 3/4" CONDUIT FROM THIS BOX TO JUNCTION BOX ABOVE STORAGE ROOM CEILING.
7. PROVIDE 120 VOLT CONNECTION TO DOOR OPERATOR. RUN 1/2" CONTROL CONDUIT TO JUNCTION BOX REFERENCED IN NOTE 6.
8. PROVIDE FOUR SQUARE BOX AT KEYPAD LOCATION RUN 3/4" CONDUIT FROM THIS BOX TO STORAGE ROOM SECURITY PANEL LOCATION.
9. PROVIDE 120 VOLT CONNECTION TO SECURITY SYSTEM PANEL.
10. VERIFY EXISTING SERVICE CONFIGURATION.
11. CONNECT EXHAUST FAN TO SWITCHED LIGHTING CIRCUIT.
12. RUN 2 #12 CONDUCTOR, #12 GROUND IN 1/2" CONDUIT BETWEEN FAN COIL UNIT AND OUTDOOR HEAT PUMP.
13. CONNECT NEW HEAT PUMP TO NEW BREAKER IN PANEL A. CIRCUIT 35.37.

**SCOPE OF WORK - ELEC DISTRIBUTION SYSTEM**

- Existing Condition**  
A 320 amp overhead service provides power to the building from a pole mounted transformer at the northeast corner of the building. Service voltage is 120/240 volt. Serving utility is Lane Electric Cooperative. The building is served by a 200 amp main breaker, 42 circuit panelboard. The panel is manufactured by Square D with 18 spaces available for future breakers. A 150 amp breaker, serving one of the outdoor air conditioners is located adjacent to the service panel and is tapped from the service panel bus.
- Scope of Work**  
The existing service panel will remain. Existing HVAC equipment and associated electrical branch circuits will be reused. Existing lighting circuits will be rerouted to new light fixture locations. Similarly, existing receptacle branch circuits will be rerouted to new receptacle locations. Provide new branch circuits as noted on panel schedule and Architectural electrical floor plan.
- Additional Requirement**
1. The electrical one line diagram and Panel schedule, Drawing E101, summarizes branch circuit requirements and provides electrical load information.
  2. Drawing E101 shows electrical panelboard and device locations and identifies electrical branch circuit information.
  3. Architectural reflected ceiling plan A121 shows light fixture and lighting control device locations.
4. Specification section 26 0526 describes grounding system requirements.
  5. Specification section 26 2726 describes requirements at new and existing electrical receptacles, and switches.
  6. Specification section 26 0553 describes electrical system identification requirements.
  7. Specification section 26 0533 describes electrical raceway and junction box requirements.
  8. Specification section 26 0544 describes fire-rated sleeves and sealing requirements.
  9. Specification section 26 0519 describes electrical conductor requirements.
  10. Lighting control matrix, Drawing E101, indicates lighting control devices to be provided in each building area.
  11. The light fixture schedule and relay panel schedule on E100 describe light fixture revisions.
  11. Demolition plan D111 shows walls that will be removed and remain in place and describes the electrical demolition work.
  12. Demolition plan D121 show ceilings, speakers and light fixtures that will be removed and remain in place.



**Electrical Plan First Floor**



**Electrical One Line Diagram**

**LOWELL LIBRARY RELAY PANEL** Flush Mounted in Existing Wall

Relay #	Zone Description	Circuit	Control Description	Notes
1	Library Area Lighting	A-11	Sweep off with signal from security panel	30 amp, 120 volt Relays
2	Entry Lobby Lighting	A-13	Sweep off with signal from security panel	30 amp, 120 volt Relays
3	Parking Lot Lighting	A-2		30 amp, 120 volt Relays
4	Parking Lot Lighting	A-4		30 amp, 120 volt Relays

**Relay Panel Schedule**

**EXISTING PANEL A**  
120/240V, 1Ph, 3W; 100A Bus with Main Lug Only Recessed Load Center AIC Rating is Less than 10,000 Amps

NOTE	CIRCUIT DESCRIPTION	CONN LOAD (VA)	LOAD TYPE	CIRCUIT BREAKER A/POLE	PH.	CIRCUIT BREAKER CKT.	LOAD TYPE	CONN LOAD (VA)	CIRCUIT DESCRIPTION	NOTE		
2	Customer Support Receptacles	540	R	20/1	1	A	2	30/2	L	800 Existing Parking Lot Lighting		
2	Service Desk Receptacles	720	R	20/1	3	B	4	60/2				
2	Work Room Receptacles	1,080	R	20/1	5	A	6	60/2		Spare		
2	Library Area Receptacles	720	R	20/1	7	B	8			Spare		
1	Existing Water Heater	1,000	WH	20/1	9	A	10	60/2		Spare		
4	Lighting Circuit Library	740	L	20/1	11	B	12					
4	Lighting Circuit Entry	740	L	20/1	13	A	14	20/1	R	360 Existing Rest Room outlets		
3	Lighting Circuit City Hall	740	L	20/1	15	B	16	20/1	R	360 Existing Rest Room outlets		
3	Lighting Circuit City Hall	740	L	20/1	17	A	18	20/1	R	Spare		
2	Relay Panel Control	180	G	15/1	19	B	20	125/2	H	9,000 Existing HVAC Unit		
5	Copy Machine Receptacles	180	R	(N) 20/1	21	A	22		H	9,000		
5	Work Room Receptacles	1,080	R	(N) 20/1	23	B	24	20/1	R	180 Was Projector Now Copy Machine		
5	Admin Office Receptacles	900	R	(N) 20/1	25	A	26			SPACE		
5	Conference Room Recept.	1,260	R	(N) 20/1	27	B	28			SPACE		
5	City Clerk Receptacles	1,080	R	(N) 20/1	29	A	30			SPACE		
5	IT Rack	969	R	(N) 20/1	31	B	32			SPACE		
5	Entry / Storage Receptacles	720	R	(N) 20/1	33	A	34			SPACE		
5	Split System AC Unit	1,320	LM	(N) 20/2	35	B	36			SPACE		
5	SPACE	1,320	LM	(N) 20/2	37	A	38			SPACE		
	SPACE				39	B	40			SPACE		
	SPACE				41	A	42			SPACE		
TOTAL CONNECTED LOAD:		Ph. A	18,460	VA	154	AMPS	PANEL CONNECTED LOAD:		36.0	KVA	149.9	Amps
							150/2 SUBFED HVAC HEAT		18.6	KVA	77.5	Amps
TOTAL CONNECTED LOAD:		Ph. C	17,469	VA	146	AMPS	TOTAL SERVICE LOAD		54.6	KVA	227.4	Amps

**NOTES:**  
1. No Change to this circuit  
2. Reroute existing branch circuit to new and existing outlets  
3. Reroute existing lighting circuit to new and existing light fixtures  
4. Reroute existing lighting circuit conductors through new relay panel  
5. Provide new breaker for City Hall Receptacle Load

**NOTE: UNDER RENOVATION PROJECT THE AC HEATING BREAKER IS BEING RECONFIGURED AND TAPPED AHEAD OF 200 AMP MAIN CIRCUIT BREAKER.**

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Dem and Factor	Dem and Load
G	General (Non-Continuous)	0.18	0.00	0.18	100%	0.18 (KVA Typical)
L	Lighting	2.96	0.00	2.96	125%	3.70
R	Receptacles - to 10 KVA over 10 KVA	9.55	0.00	9.55	100%	9.55
K	Kitchen	0.00	0.00	0.00	50%	0.00
H	Heating	18.00	0.00	18.00	100%	18.00
M	Motors	0.00	0.00	0.00	0%	0.00
LM	Largest Motor	2.64	0.00	2.64	125%	3.30
WH	Water Heater	1.00	0.00	1.00	125%	1.25
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
<b>Total:</b>						<b>35.98 KVA</b>

**Panel A**

**LUMINAIRE SCHEDULE**

FIXTURE DESIGNATION	DESCRIPTION	NUMBER OF	LAMP WATTS	LUMINAIRE WATTS	CCT	LUMEN OUTPUT	LAMP SOURCE	LAMP TYPE	DRIVER	VOL. TRG	MOUNTING	MANUFACTURER	CATALOG NUMBER	COMMENTS
A	EXISTING 4 LAMP 2' X 4' FLUORESCENT TROFFER WITH TL LAMPS AND ELECTRONIC BALLAST AND ACRYLIC LENS	4	32	128	3500K	2850	TYPICAL TL	FLUORESCENT	9-15VDC DIMMABLE	120	RECESSED	EXISTING		CLEAN AND RETROFIT EXISTING FIXTURE WITH TYPE C LED LAMPS AND DRIVER
A2	EXISTING 4 LAMP 2' X 4' FLUORESCENT TROFFER WITH TL LAMPS AND ELECTRONIC BALLAST AND PARACUBE LENS	4	32	128	3500K	2850	TYPICAL TL	FLUORESCENT	9-15VDC DIMMABLE	120	RECESSED	EXISTING		CLEAN AND RETROFIT EXISTING FIXTURE WITH TYPE C LED LAMPS AND DRIVER
B	2' X 4' LED TROFFER, 4100 LUMENS	-	-	32	3500K	3900	LED	LED	INTEGRAL DRIVER	120	RECESSED	LITHONIA DALLAS XLLET LP35		CONTROL WITH COMPATIBLE DIMMER
C	2' X 2' LED TROFFER, 2800 LUMENS	-	-	18	3500K	2200	LED	LED	INTEGRAL DRIVER	120	RECESSED	LITHONIA DALLAS XLLET LP35		CONTROL WITH COMPATIBLE DIMMER
E	EXISTING LED EXIT SIGN WITH BATTERY BACKUP AND TWIN HEAD EMERGENCY LAMPS	-	-	5	-	-	LED	-	INTEGRAL DRIVER	120	SURFACE	EXISTING		RELOCATE EXISTING TO LOCATION SHOWN
D	LED DOWNLIGHT	-	-	18	3000K	2500	LED	LED	INTEGRAL DRIVER	120	RECESSED	LITHONIA 4 BEM WYLED 35K 30 CRIME		CONTROL WITH COMPATIBLE DIMMER
F	EXISTING 4 LAMP 2' X 4' FLUORESCENT TROFFER WITH TL LAMPS AND ELECTRONIC BALLAST	4	32	128	3500K	2850	FLUORESCENT	FLUORESCENT	ELECTRONIC	120	RECESSED	EXISTING		CLEAN AND RELAMP EXISTING FIXTURE

**Luminaire Schedule**

**MISC ELECTRICAL SYMBOLS**

- Ⓛ LIGHTING CONTROL
- Ⓢ WALL-MOUNTED DIMMER SWITCH
- Ⓢ EXISTING SWITCH
- Ⓢ DEMO SWITCH
- Ⓛ LOW VOLTAGE SWITCH STATION
- Ⓢ SINGLE ZONE DAYLIGHT SWITCH
- Ⓢ WALL-MOUNTED OCCUPANCY SENSOR
- Ⓢ WALL-MOUNTED OCCUPANCY SENSOR WITH DIMMER SWITCH
- Ⓢ CEILING-MOUNTED OCCUPANCY SENSOR
- Ⓢ POWER
- Ⓢ NEW POWER RECEPTACLE
- Ⓢ EXST POWER RECEPTACLE
- Ⓢ DEMO POWER RECEPTACLE

**Bid and Permit Set**  
City of Lowell  
Maggie Osgood Library and  
City Hall Renovation