

# HEATH NEWARK LICKING COUNTY PORT AUTHORITY

## BUILDING RENOVATION

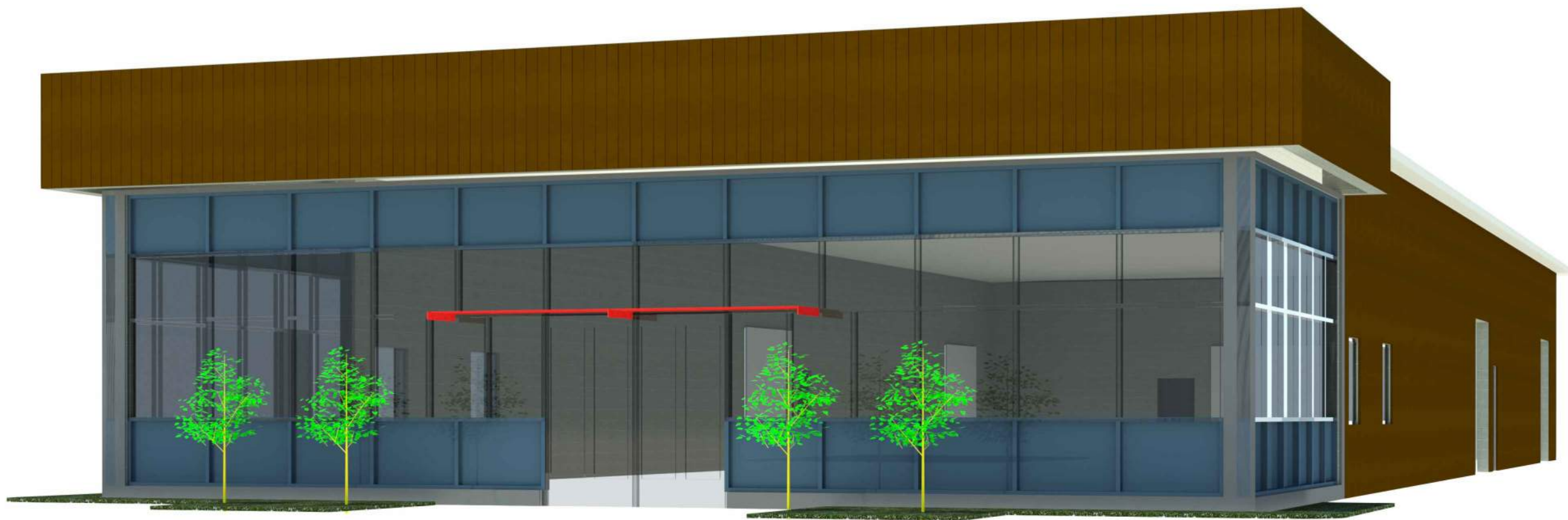
### PROJECT SCOPE DESCRIPTION

This project consists of renovation of a 8,470 square foot, 1 story pre-engineered metal building structure, and slab on grade. The purpose of the building is for future industrial/office tenant fit-out the building has a 3,156 SF office area. The building is not sprinklered. Interior will be heated with new equipment.

1401 Mount Vernon Road  
Newark, Ohio 43055

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### OWNER / DEVELOPER

HEATH NEWARK LICKING COUNTY PORT AUTHORITY  
851 IRVING WICK DRIVE WEST  
HEATH, OHIO 43056  
PH# (740) 786-5500

### ARCHITECT

JBA ARCHITECTS, P.C.  
55 JULIA STREET  
HEBRON, OHIO 43025  
PH# (740) 366-3391

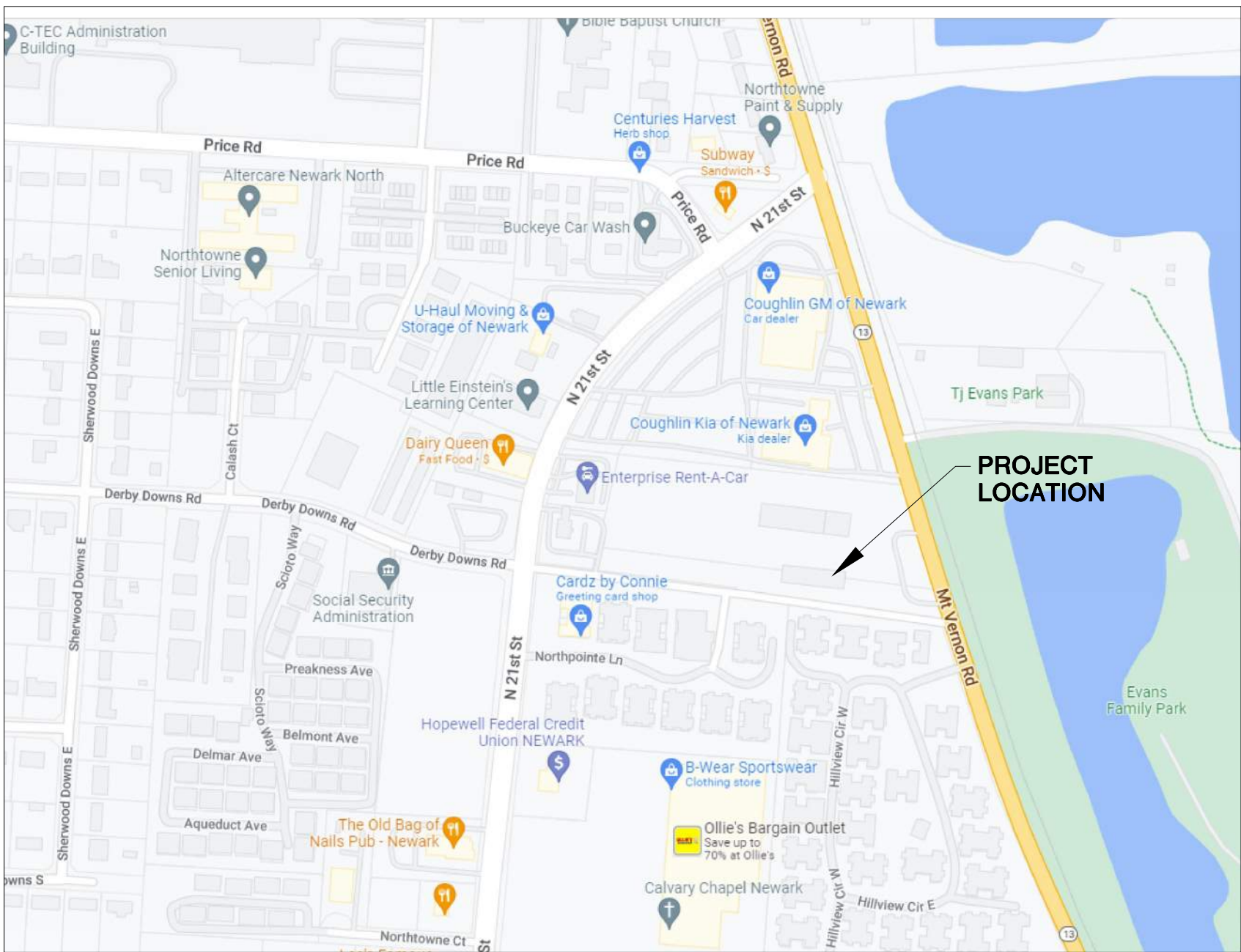
### MECHANICAL ENGINEERING

MC MULLEN ENGINEERING CO  
100 SOUTH STATE ST  
WESTERVILLE, OH 43081  
PH# (614) 895-3408



VICINITY MAP

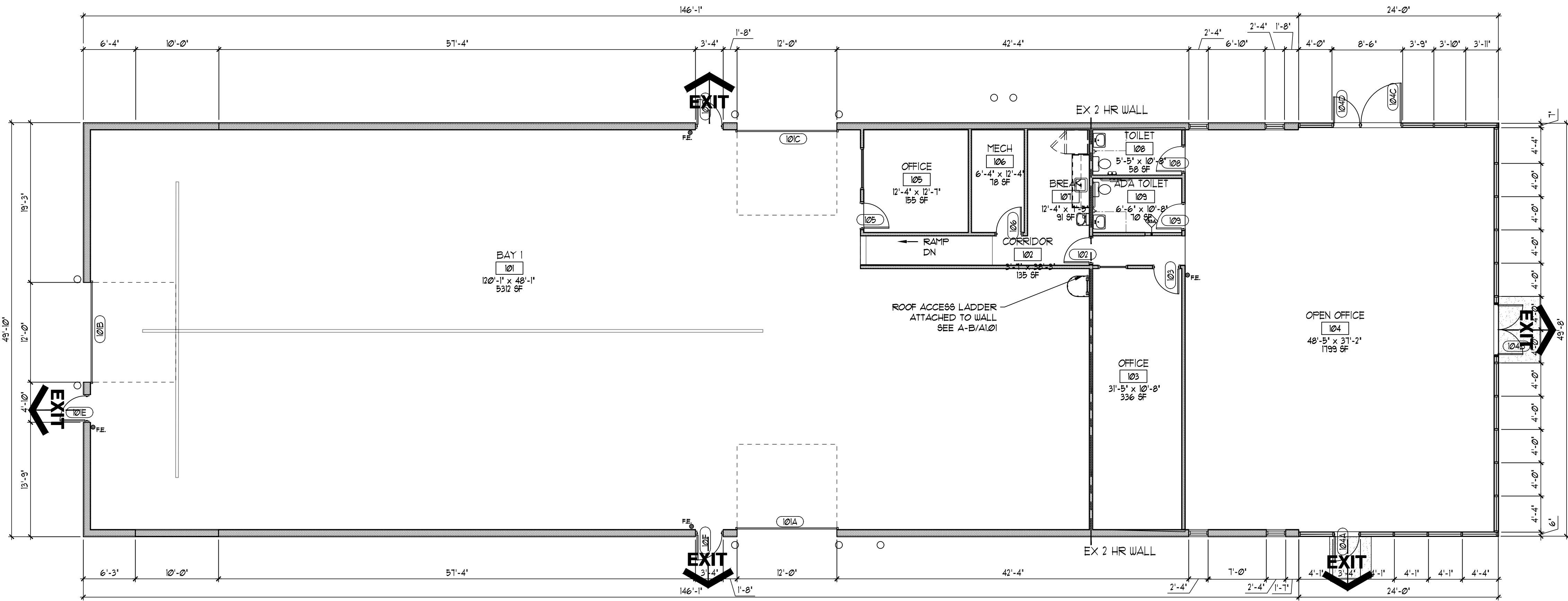
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LOCATION MAP

N.T.S.





1 CODE EGRESS PLAN  
SCALE: 1/8" = 1'-0"



**Building Area**

|              |          |             |
|--------------|----------|-------------|
| Basement     | 0 gsf    |             |
| First Floor  | 8470 gsf |             |
| Second Floor | 0 gsf    |             |
| Total Area   | 8470 gsf |             |
| Shell Area   | 5312 gsf | B, S-1, F-1 |
| Office Area  | 3158 gsf | B, S-1, F-1 |

**Building Height**  
1 story, 31.5 feet, floor to parapet

**Building Description**

One story, slab on grade, pre-engineered structural steel framed building with concrete block, glass storefront and metal siding.

The roof is exposed fastener metal over pre-engineered metal purlins over insulation

Building does not have a fire suppression system or fire alarm system.

This project is for future tenant space

**General Building Limitations**

|                                   |                                                                                                                  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| Construction Classification:      | IIB                                                                                                              |
| Use and Occupancy Classification: | Tenant Space S-1 Storage: B Office Mixed use separated<br>Tenant Space F-1 Factory: B Office Mixed use separated |

|                                 |                      |                              |
|---------------------------------|----------------------|------------------------------|
| Gross building area limited to: | 15,500 gsf per floor |                              |
| Building height limited to:     | 2 stories            | 55 feet based on F Occupancy |

**Fire Resistive Requirements**

|                                             |        |
|---------------------------------------------|--------|
| Structural Frame                            | 0 hour |
| Exterior Bearing Walls                      | 0 hour |
| Interior Bearing Walls                      | 0 hour |
| Non-Bearing Interior Walls                  | 0 hour |
| Floor Construction (including beams/joists) | 0 hour |
| Roof Construction (including beams/joists)  | 0 hour |

|                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| Table 602 exterior wall fire-resistance rating based on fire separation distance |                 |
| less than 5 feet                                                                 | 2 hour          |
| greater than or equal to 5 ft but less than 10 ft                                | 1 hour          |
| greater than or equal to 10 ft but less than 30 ft                               | 0 hour Complies |
| greater or equal to 30 feet                                                      | 0 hour          |

**Occupant Load**

| Room Rm # | Area (sf) | Area type | sf / occ. | Occ.               |
|-----------|-----------|-----------|-----------|--------------------|
| S-1 Area  | 5312. SF  | Warehouse | 500       | 11                 |
| B Area    | 3158. SF  | Office    | 100       | 32                 |
|           |           |           |           | 43 total occupants |

**Egress Width**

| Egress components | inches/occupant | occupants | total egress width |
|-------------------|-----------------|-----------|--------------------|
|                   | 0.2 inches      | 43        | = 10 8.6           |

**Common Path of Egress Travel**

The common path of egress travel shall not exceed 200 feet, per 1017.2

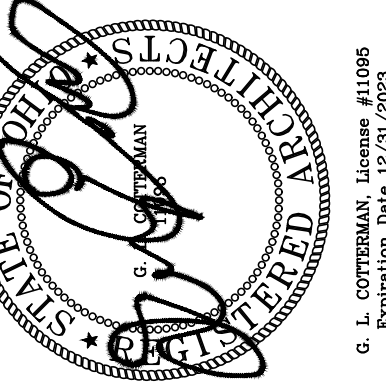
**Toilet Room Requirements**

|          |       |    |                  |
|----------|-------|----|------------------|
| Business | 1 per | 50 | 1 Total required |
|          |       |    | 3 Provided       |

PERMIT SET

|                 |                                   |                |        |
|-----------------|-----------------------------------|----------------|--------|
| DESIGN          | OWNER                             | EXPRESSION NO. | 2307   |
| CHECKED BY:     | GLC                               | DATE:          | 6/6/23 |
| PROJECT MANAGER | GLC                               | DATE:          |        |
| SHEET TITLE:    | EGRESS FLOOR PLAN / CODE SYNOPSIS |                |        |
| SHEET NO.       | A0.01                             |                |        |

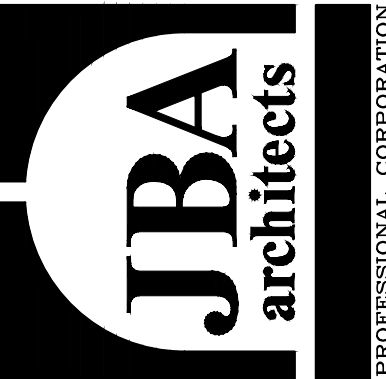
Heath Newark Licking County Port Authority  
BUILDING RENOVATION  
1401 Mount Vernon Road  
Newark, Ohio 43055

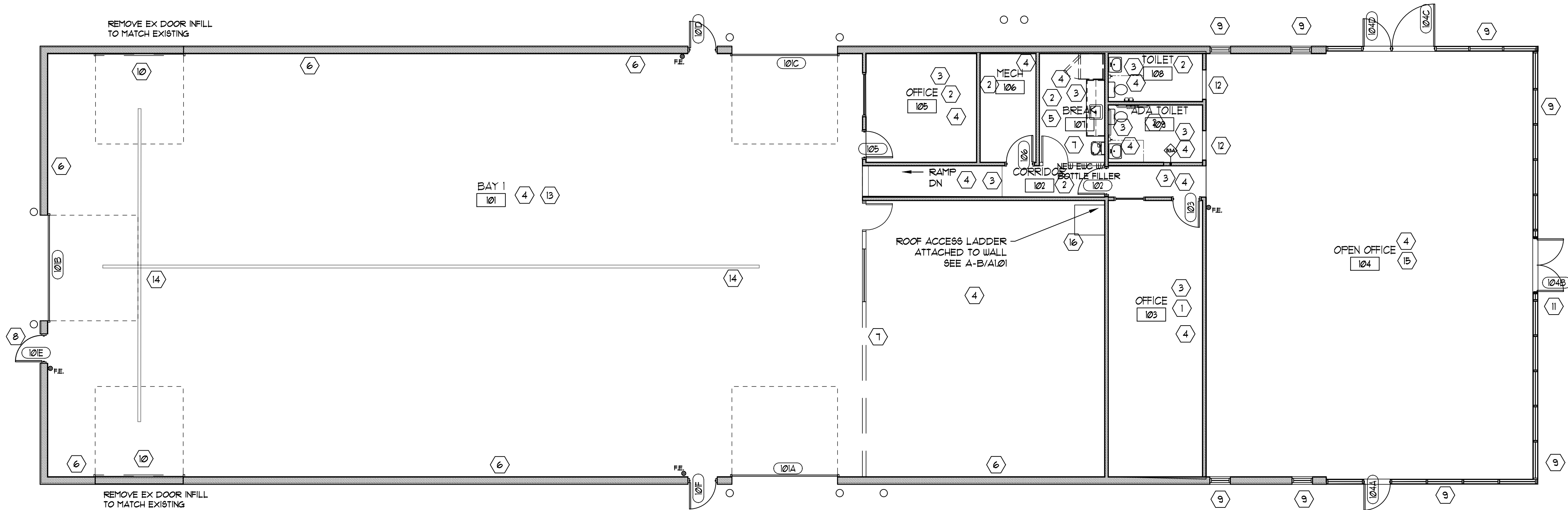


JBA Architects, P.C.  
25300 State Route 100  
Newark, Ohio 43055  
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EMAIL: gcorbman@jba.net

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FOR REFERENCE ONLY

| NO. | REVISION | BY | DATE |
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1  
D1.01  
GROUND FLOOR DEMO PLAN  
SCALE: 1/8" = 1'-0"



- DEMO CODED NOTES
1. REMOVE EXISTING CARPET AND PREPARE FLOOR FOR NEW CARPET
  2. REMOVE EXISTING VINYL FLOORING AND PREPARE FLOOR FOR NEW VINYL FLOORING
  3. REMOVE ALL CEILING TILE AND GRID AND PREPARE FOR REPLACEMENT
  4. REMOVE ALL EXISTING LIGHTING AND PREPARE FOR NEW LIGHTING
  5. REMOVE EXISTING PLUMBING FIXTURES PREPARE FOR NEW BREAK AREA
  6. REMOVE EXISTING METAL LINER PANELS AND PREPARE WALL FOR NEW METAL LINER PANELS
  7. REMOVE EXISTING WALL REPAIR FLOOR AS NEEDED
  8. REMOVE EXISTING DOOR AND FRAME AND PREPARE FOR NEW DOOR - DOOR 101G TO HAVE NEW SUPPORT STRUCTURE ADDED FOR FRAME
  9. REMOVE EXISTING GLASS IN CURTAIN WALL SYSTEM FIXED UNIFORMS AND PREPARE FOR NEW GLASS - RECONFIGURE FOR NEW ENTRY DOORS SEE ARCHITECTURAL FLOOR PLANS/ELEVATIONS
  10. REMOVE EXISTING OVERHEAD DOOR AND HARDWARE AND PREPARE FOR NEW EXTERIOR WALL
  11. CUT EXISTING CMU AND CONCRETE FOR NEW DOOR OPENING PROVIDE NEW CONCRETE FOR NEW WALK
  12. REMOVE EXISTING WALL AND PREPARE FOR NEW DOOR
  13. REMOVE ALL EXISTING WALL HUNG HEATING UNITS THIS SPACE SEE HVAC/PLUMBING DUGS
  14. REPLACE ALL EXISTING FLOOR DRAIN COVERS SEE PLUMBING DUGS
  15. REMOVE ALL CEILING TILE AND GRID AND PREPARE EXISTING CEILING FOR PAINT OF STRUCTURE AND EXISTING INSULATION
  16. CUT EXISTING ROOFING FOR INSTALLATION OF NEW ROOF HATCH AND LADDER COORDINATE LOCATION WITH EXISTING BUILDING STRUCTURE

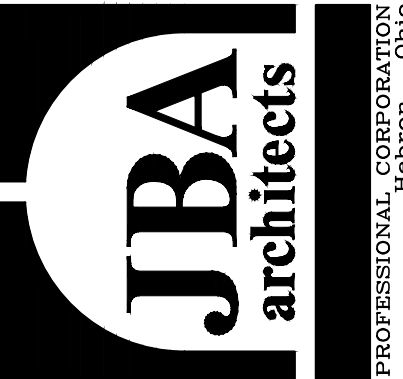
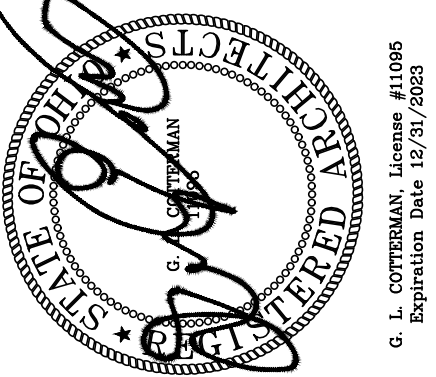
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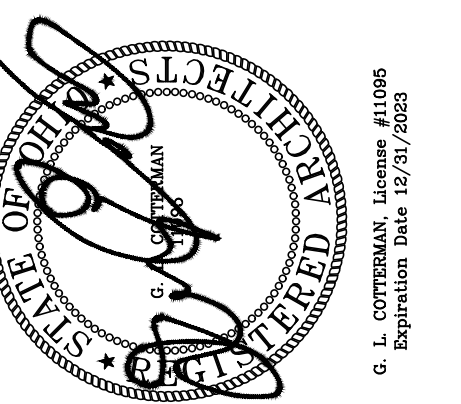
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|-----------------|-------------------------------|-----------------|--------|
| DESIGN          | OWNER                         | DISPOSITION NO. | 2302   |
| CHECKED BY      | GLC                           | DATE            | 6/6/23 |
| PROJECT MANAGER | GLC                           | NO DATE         |        |
| SHEET TITLE     | DEMOLITION FLOOR PLAN / NOTES |                 |        |
| SHEET NO.       | D1.01                         |                 |        |

Heath Newark Licking County Port Authority  
BUILDING RENOVATION  
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|                                                                                                                                                                       |  | DATE     |      |

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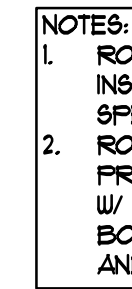
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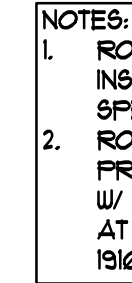
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SHEET NO.



(A1.02) SCALE: 1" = 1'-0"



SCALE: 1" = 1'-0"

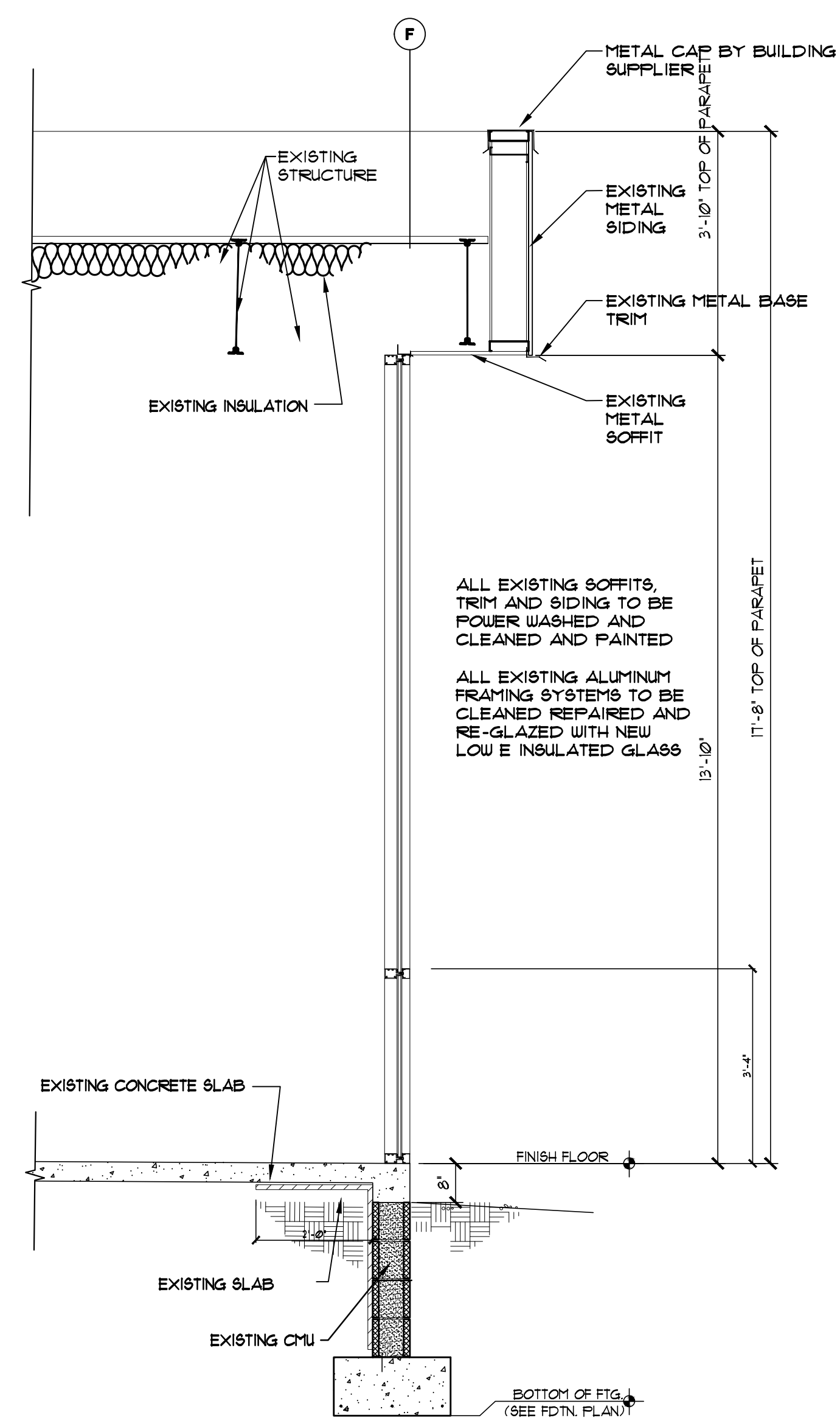
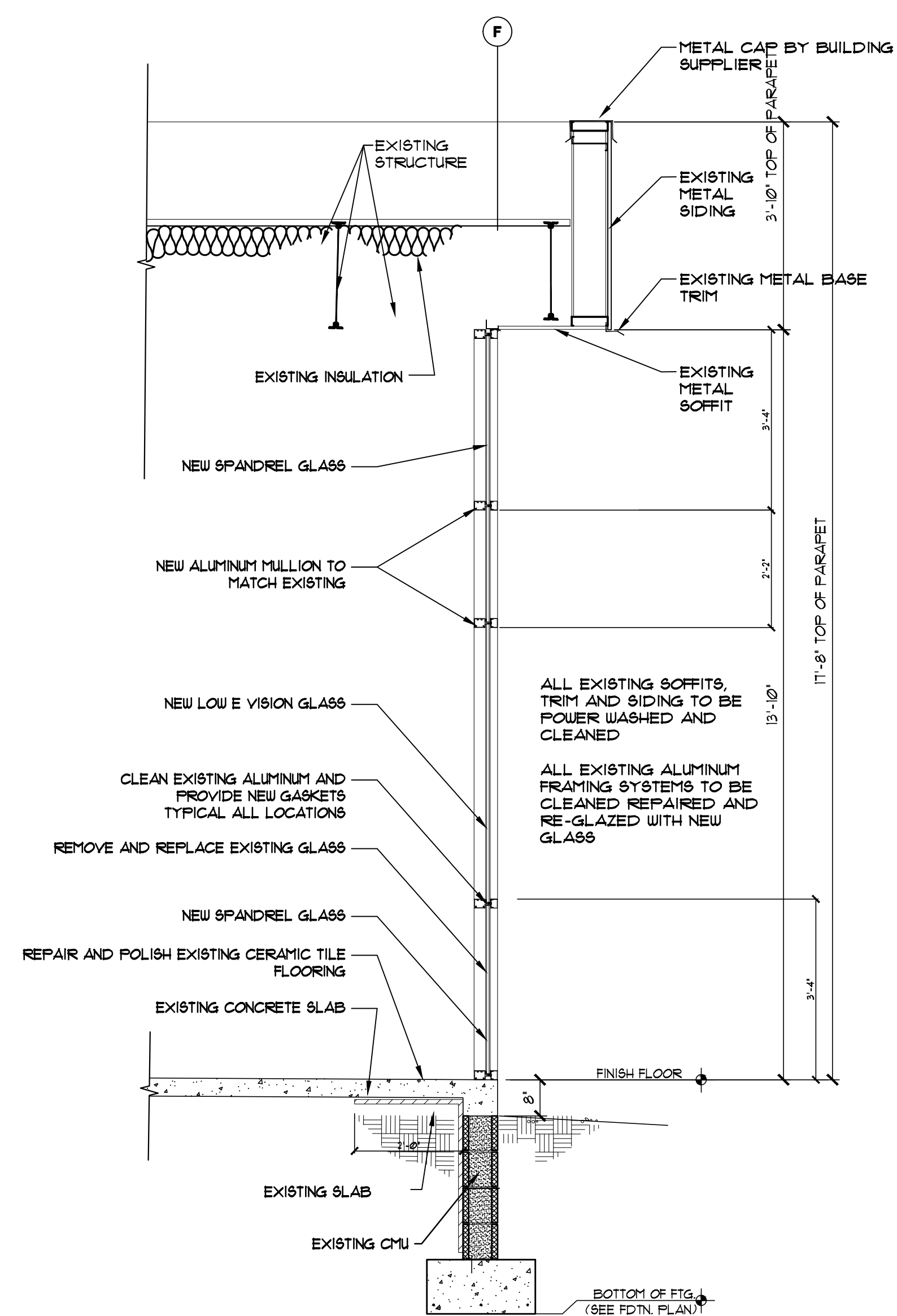
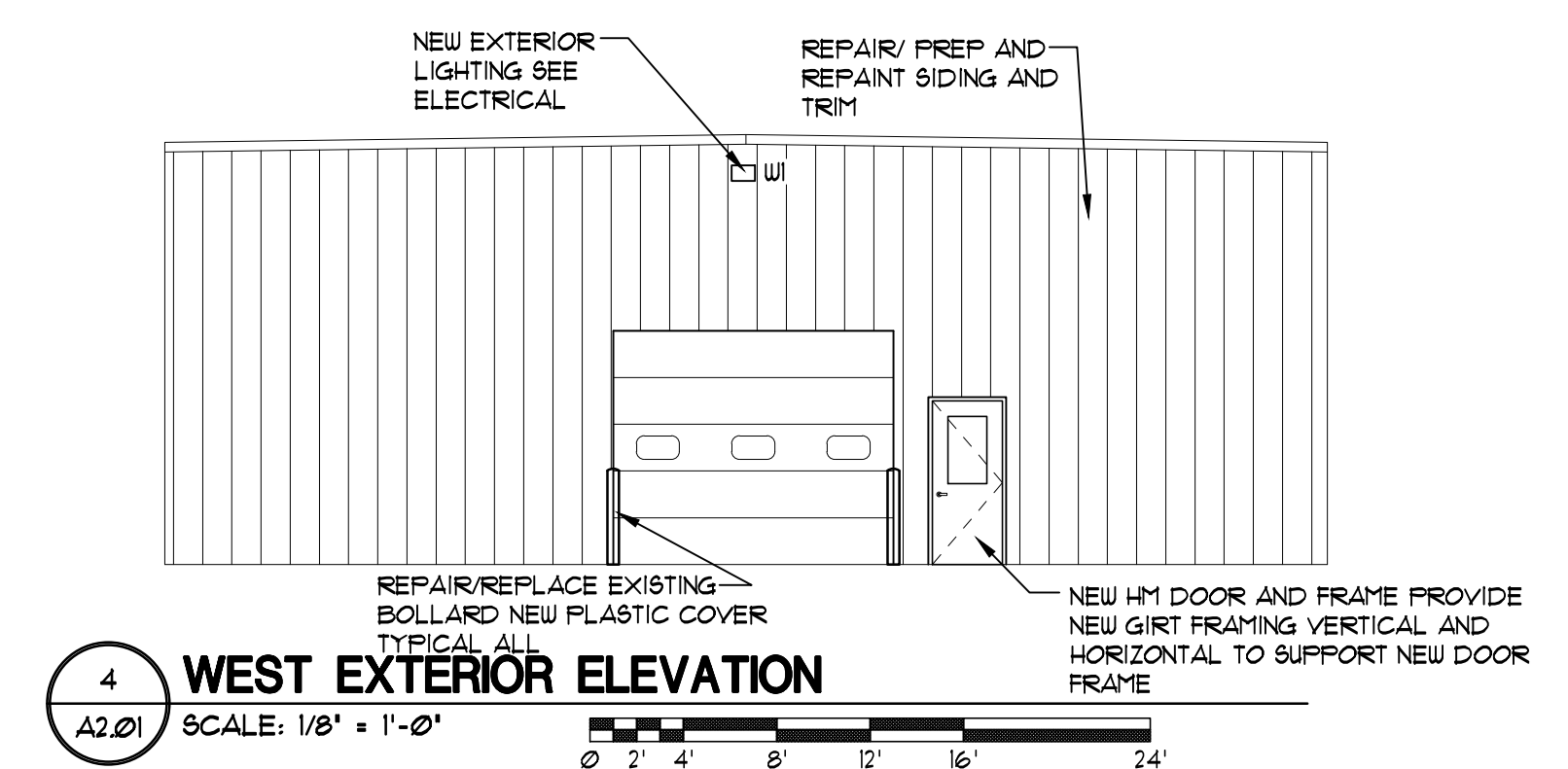
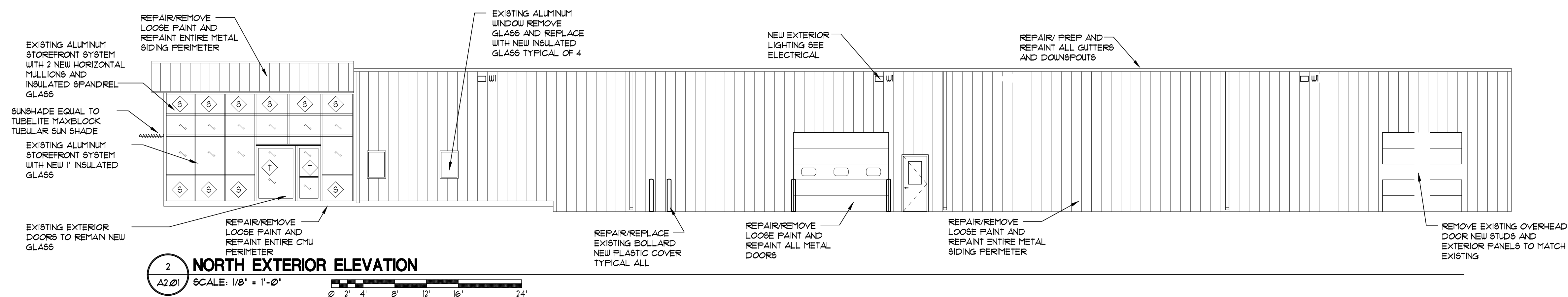
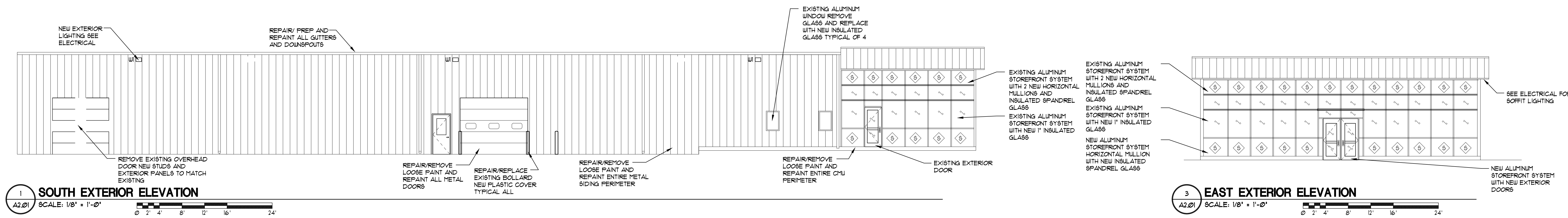
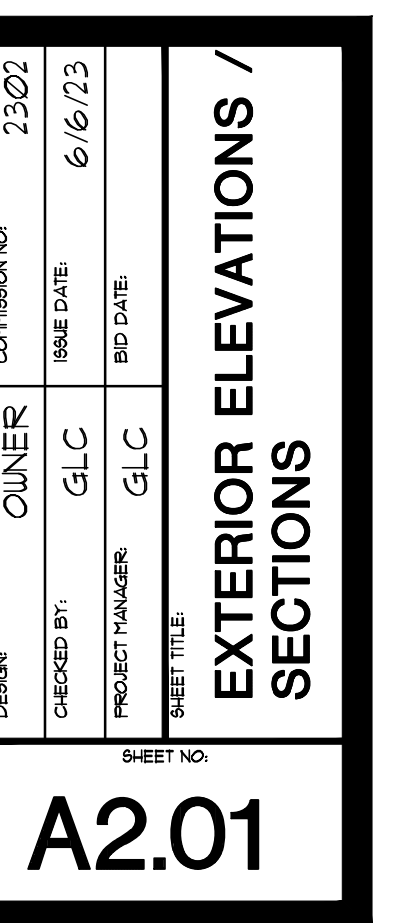
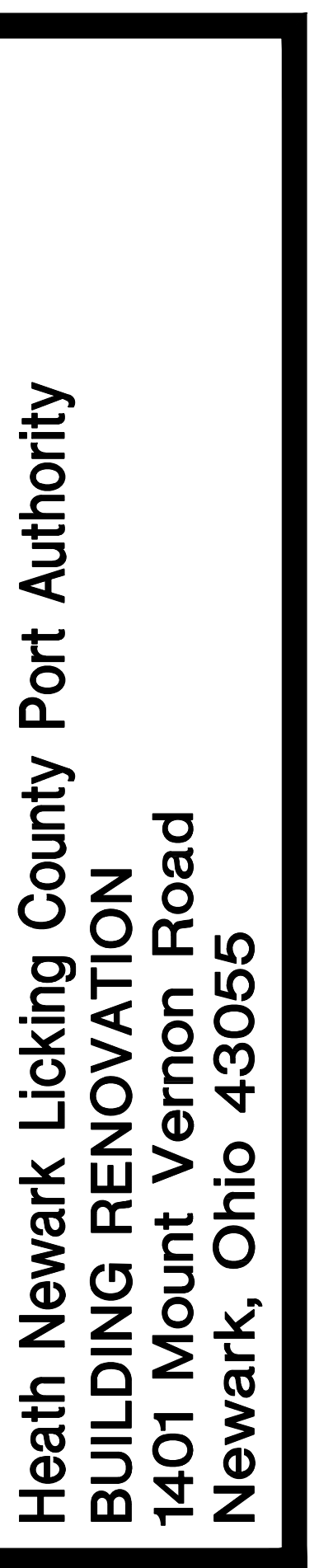
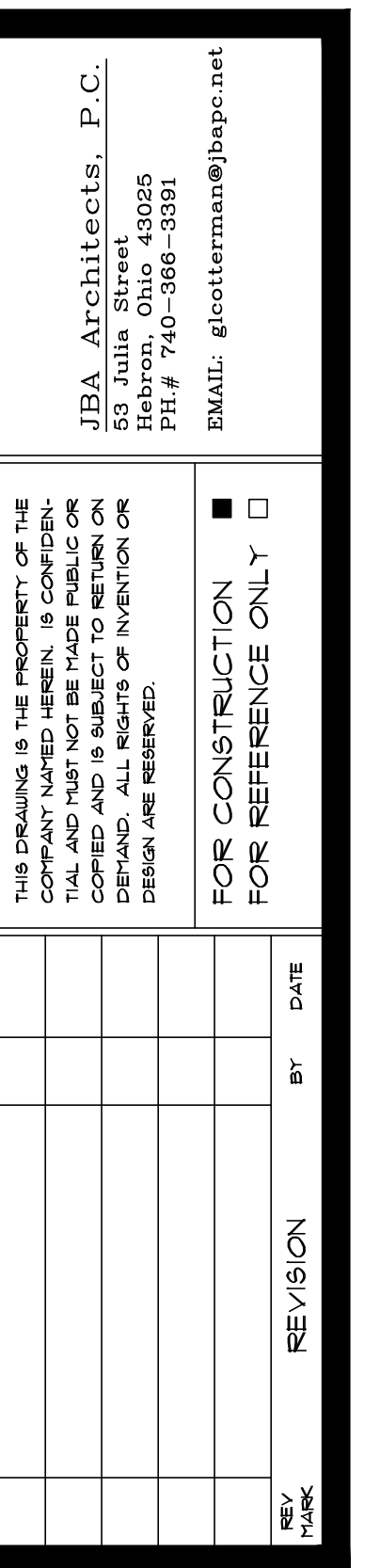
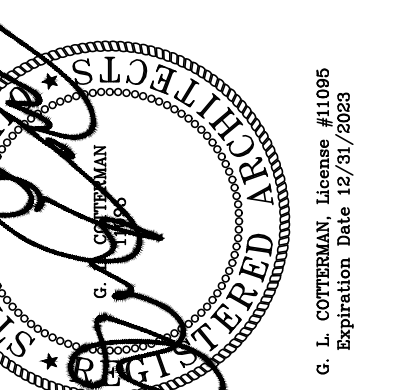
A. ALL DIMENSIONS TO NEW WALLS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.

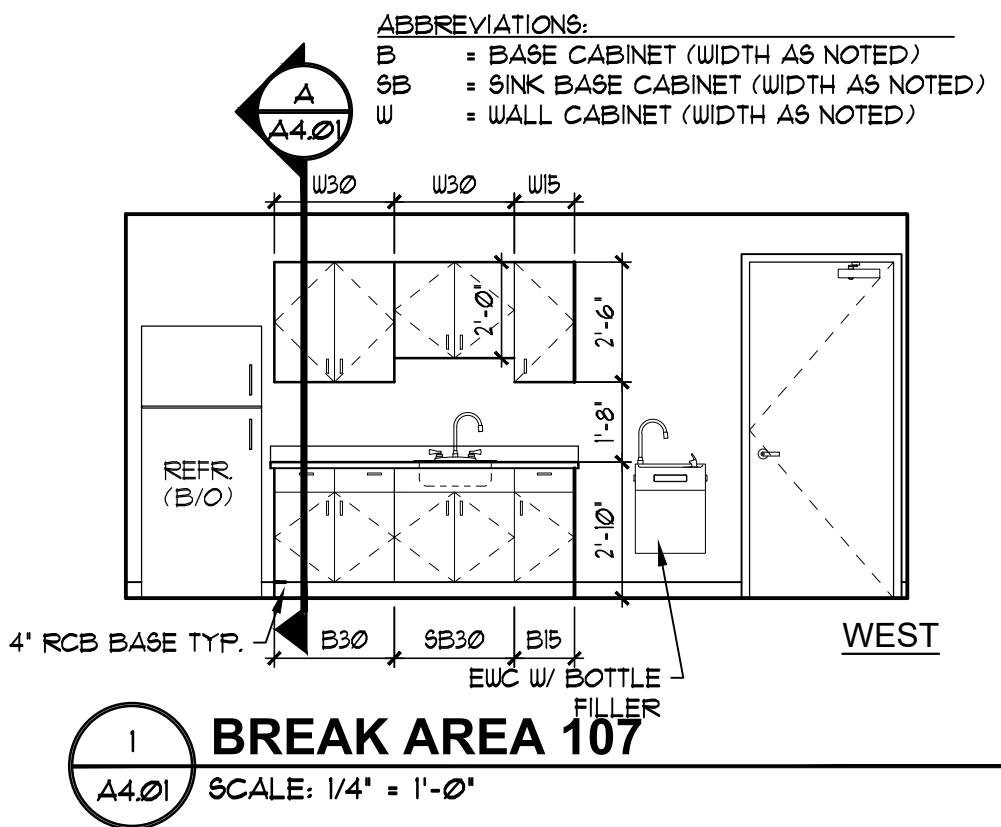
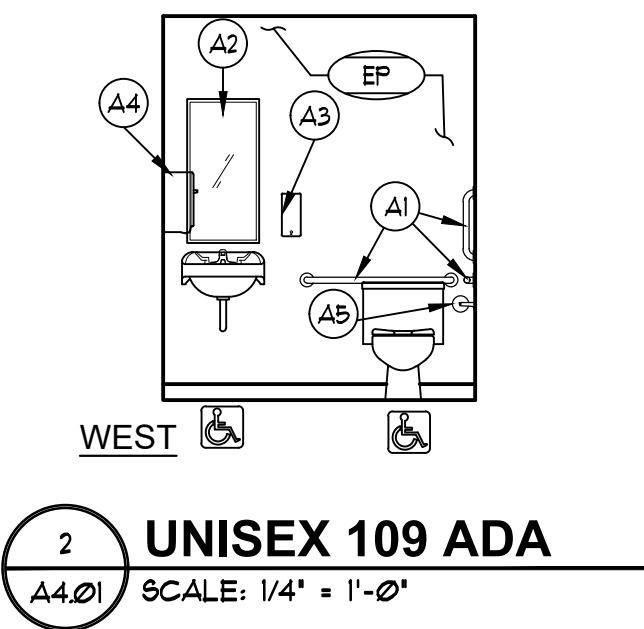
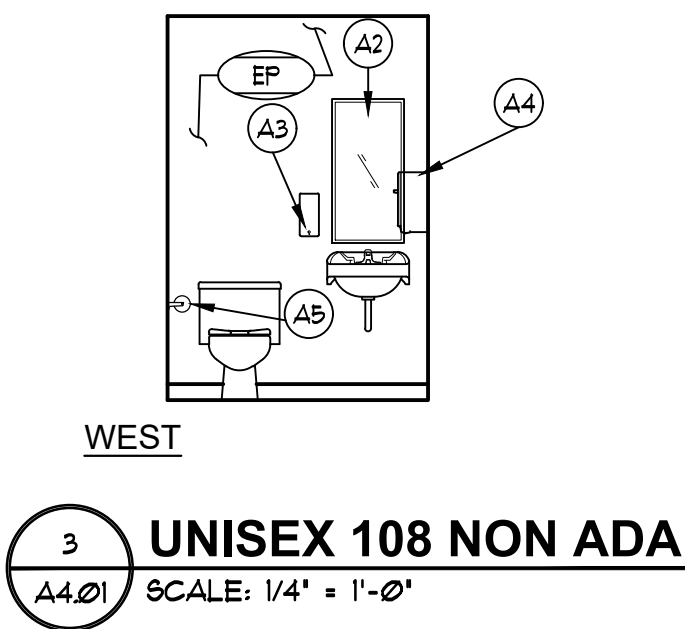
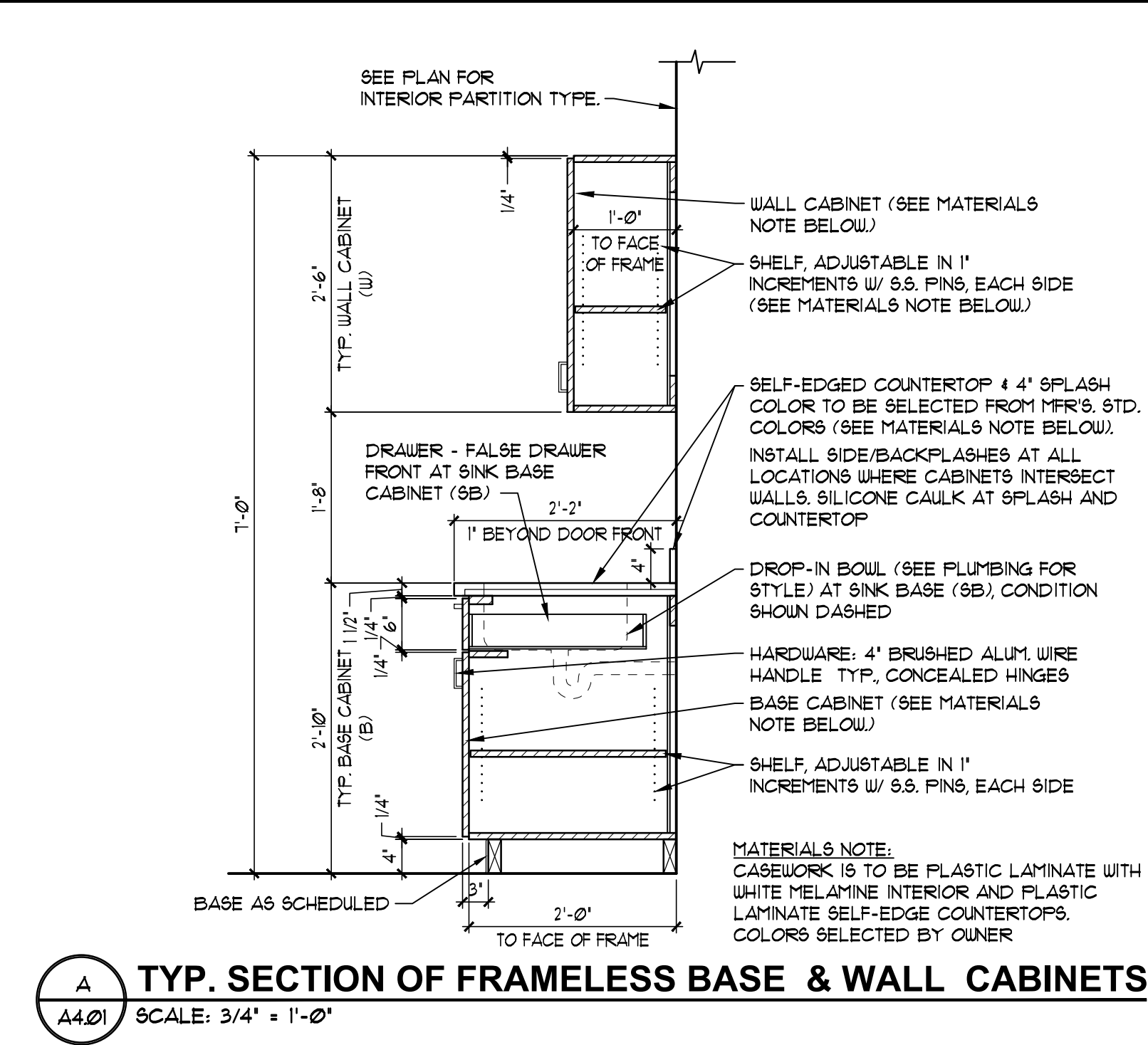
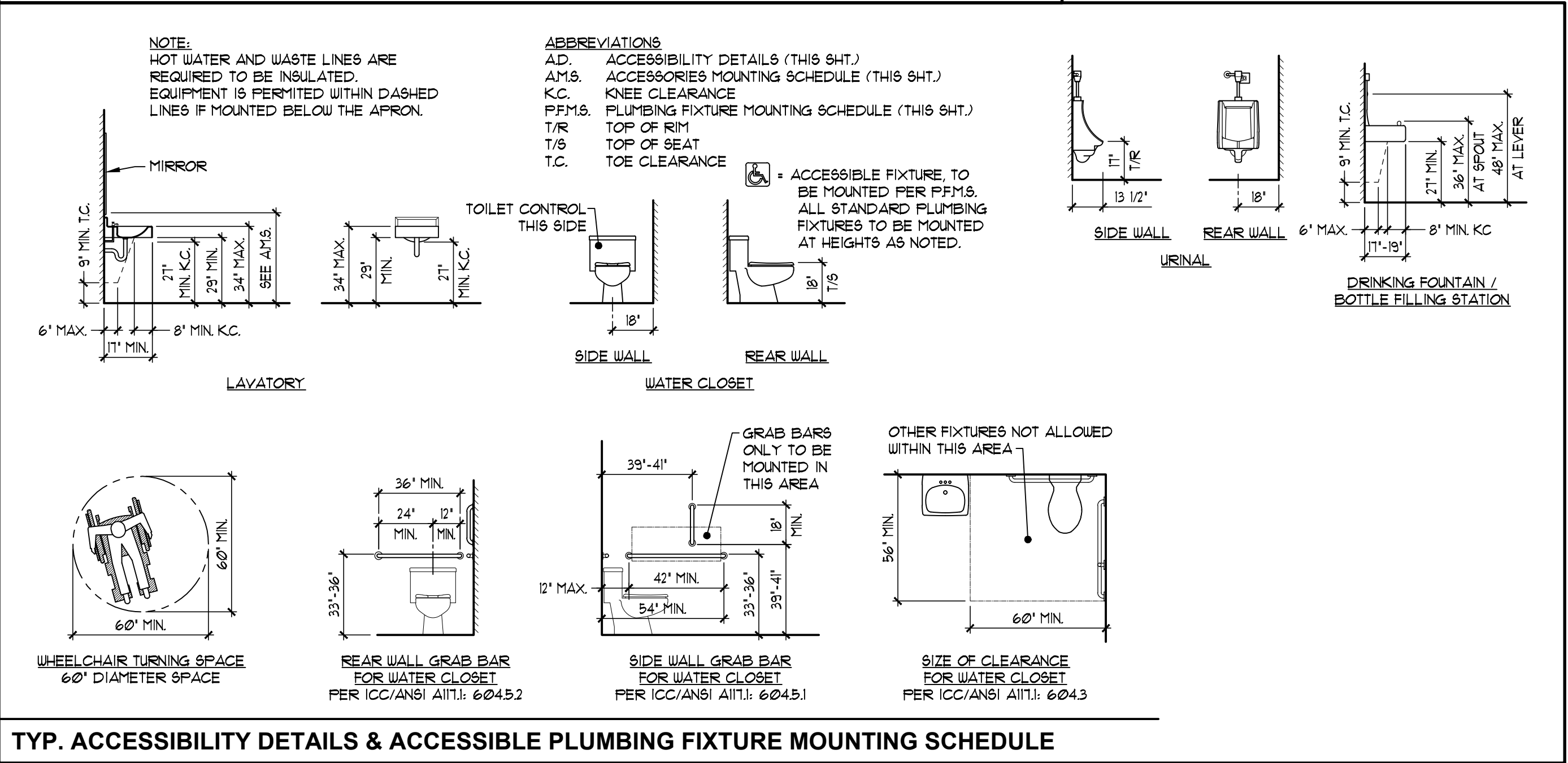
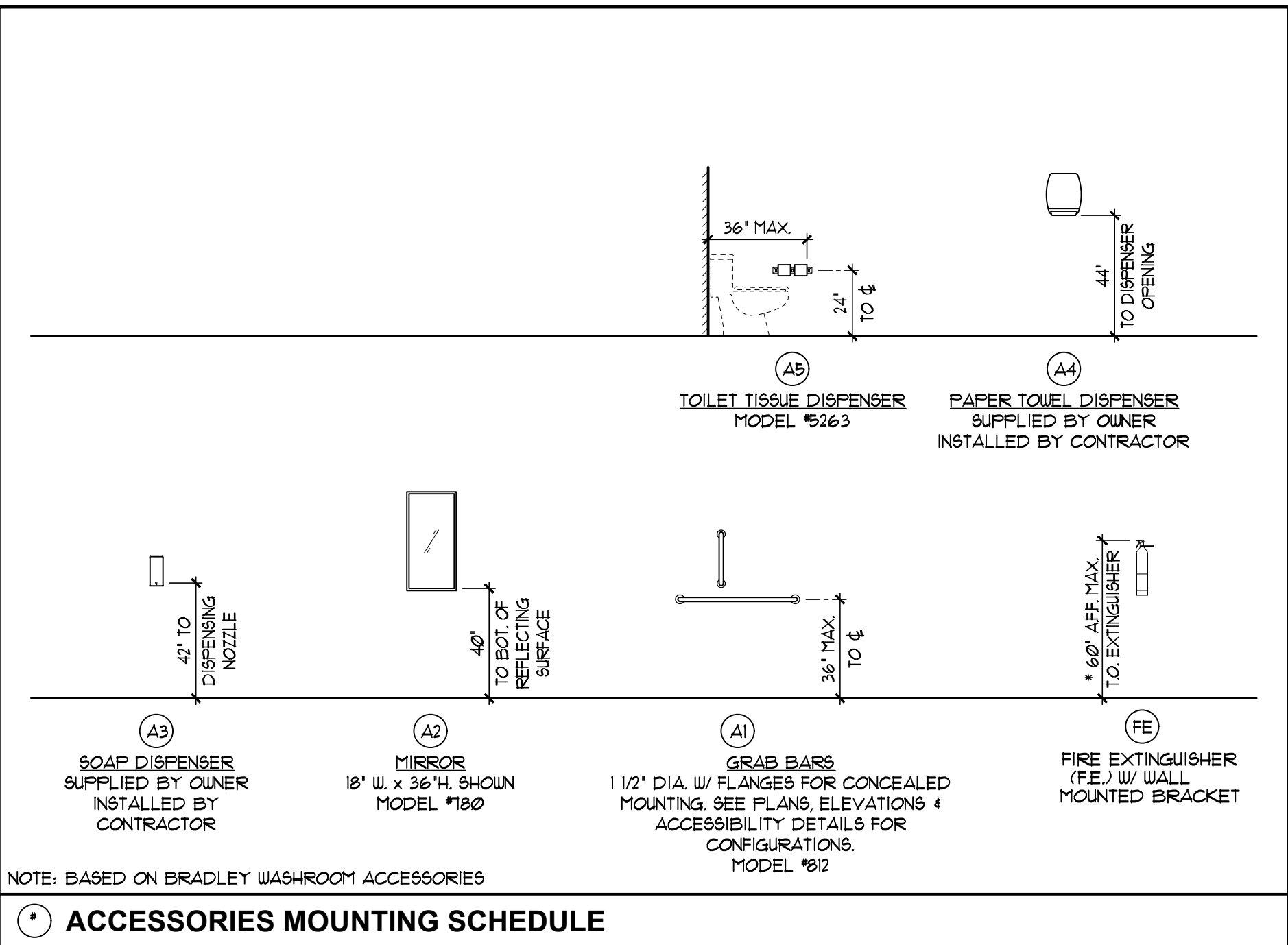
B. SEE SHEET A4.01 FOR ENLARGED PLAN OF OFFICE AREAS

1. EXISTING CERAMIC FLOOR TILE TO BE CLEANED, REPAIR GROUT, SEAL AND POLISHED
2. EXISTING WALLPAPER TO BE TESTED FOR ADHESION, IF SOLID REPAIR AS NEEDED AND PAINT
3. REMOVE EXISTING OVERHEAD DOOR AND INFILL WITH 18 GA #6 METAL STUDS @16" O.C. W/ SIDING ON EXTERIOR TO MATCH EXISTING R-10 BATT INSULATION W/ VAPOUR BARRIER ON WARM SIDE W/ 29 GA LINER PANEL ON INTERIOR FACE
4. EXTEND DRYWALL ABOVE EXISTING CEILING LEVEL AFTER EXISTING CEILING REMOVED - FINISH AND PAINT
5. CLEAN EXISTING WALLS AS NEEDED TO RECEIVE NEW DRY WALL PANEL BAY 101 COLOR ANTIQUE WHITE - OPEN OFFICE 102A BLOCK EXPOSED INSULATION FACING TO BE PAINTED VERMILION ADHESION OF NEW PAINT
6. REMOVE EXISTING STUDS IN FLOOR PATCH, GRIND AND PATCH AS REQUIRED TO RECEIVE NEW LIGHT GRAY EPOXY FLOOR COATING

1. REMOVE AND REPLACE WITH NEW WEATHER STRIPPING TOP, SIDES AND BOTTOMS OF ALL OVERHEAD DOORS
2. REPAIR/REPLACE ALL DAMAGED EXPOSED CMU BLOCKS ON EXTERIOR OF BUILDING PREPARE FOR NEW PAINT
3. REPAIR/PATCH ALL HOLES AND DAMAGED SIDING ON EXTERIOR OF BUILDING PREPARE FOR NEW PAINT
10. NEW WATER FOUNTAIN WITH BOTTLE FILLER AT THIS LOCATION
11. NEW PLUMBING FIXTURES IN THIS ROOM
12. CLEAN AND PREPARE EXISTING BOLLARDS FOR NEW SAFETY COVERS
13. EXISTING WINDOW TO REMAIN - CLEAN REPAINT EXISTING FRAME
14. NEW FLOOR TO CEILING LINER PANELS ALL EXTERIOR WALLS IN THIS ROOM

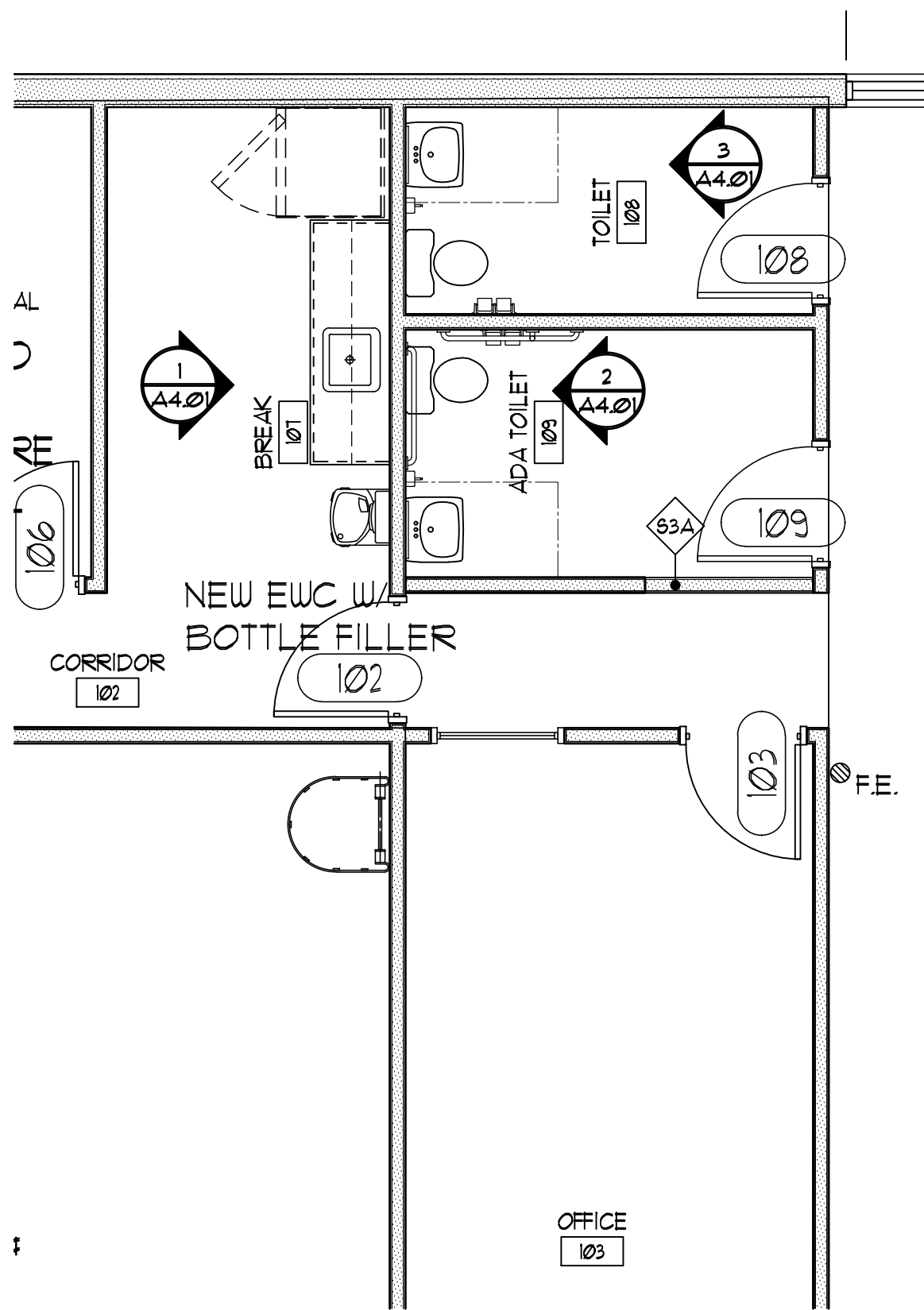






| MARK | DESCRIPTION    | STUD FRAMING  |               | REINF. CMU | HEIGHT | GYP. BD. (5/8" UNO.) | ADDITIONAL FINISHES | INSULATION              | REMARKS    |
|------|----------------|---------------|---------------|------------|--------|----------------------|---------------------|-------------------------|------------|
|      |                | METAL         | SPACING       |            |        |                      |                     |                         |            |
| S3A  | STUD PARTITION | 3 1/2" 20 GA. | 16" O.C. MAX. | --         | 12'-0" | BOTH SIDES           | --                  | SOUND ATTENUATION BATTS | SEE NOTE 1 |
| S3B  | STUD PARTITION | 3 1/2" 20 GA. | 16" O.C. MAX. | --         | 12'-0" | ONE SIDE             | --                  | SOUND ATTENUATION BATTS | SEE NOTE 1 |
|      |                |               |               |            |        |                      |                     |                         |            |

NOTE:  
1. GYPSUM BOARD STOPS 6" ABOVE CEILING TILE ELEVATION.



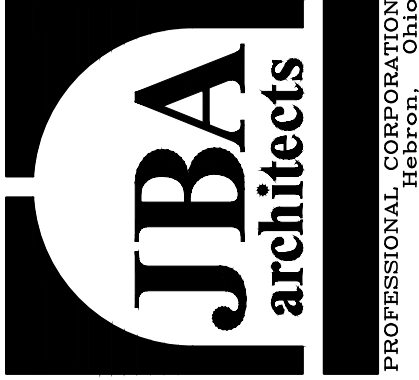
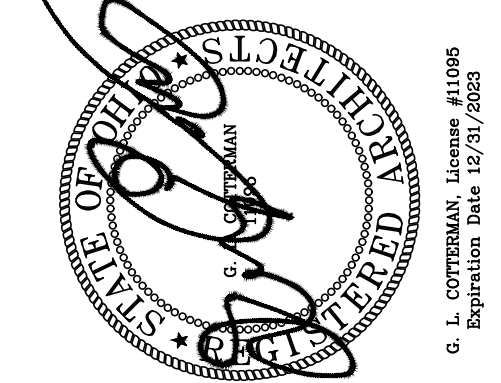
PERMIT SET

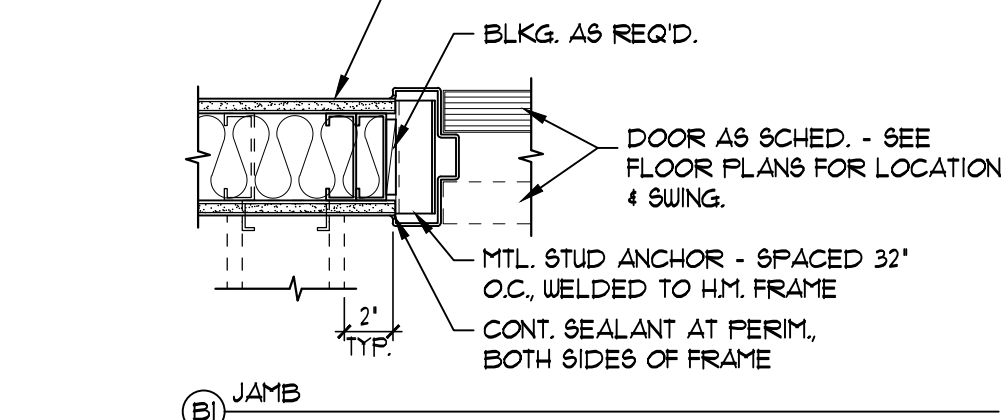
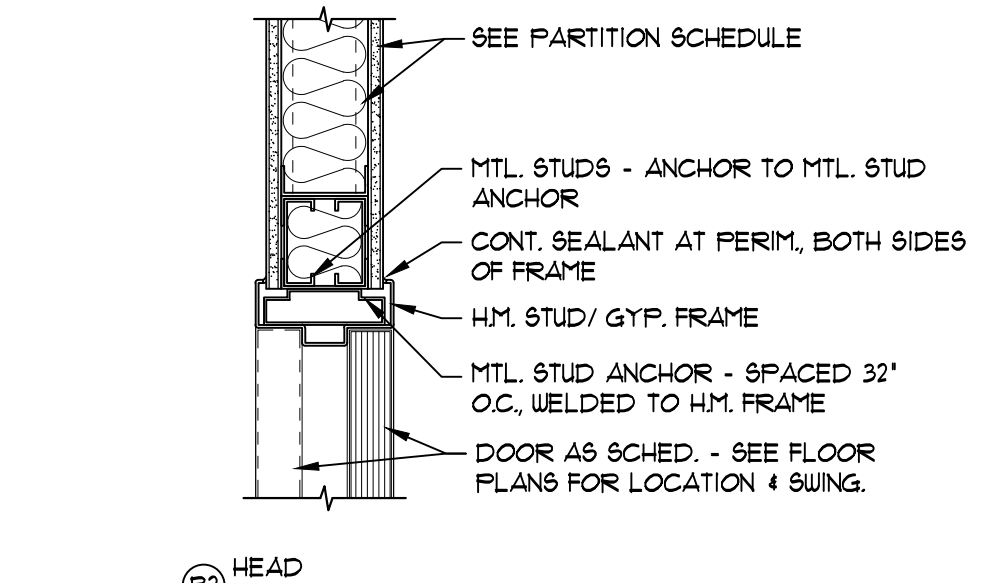
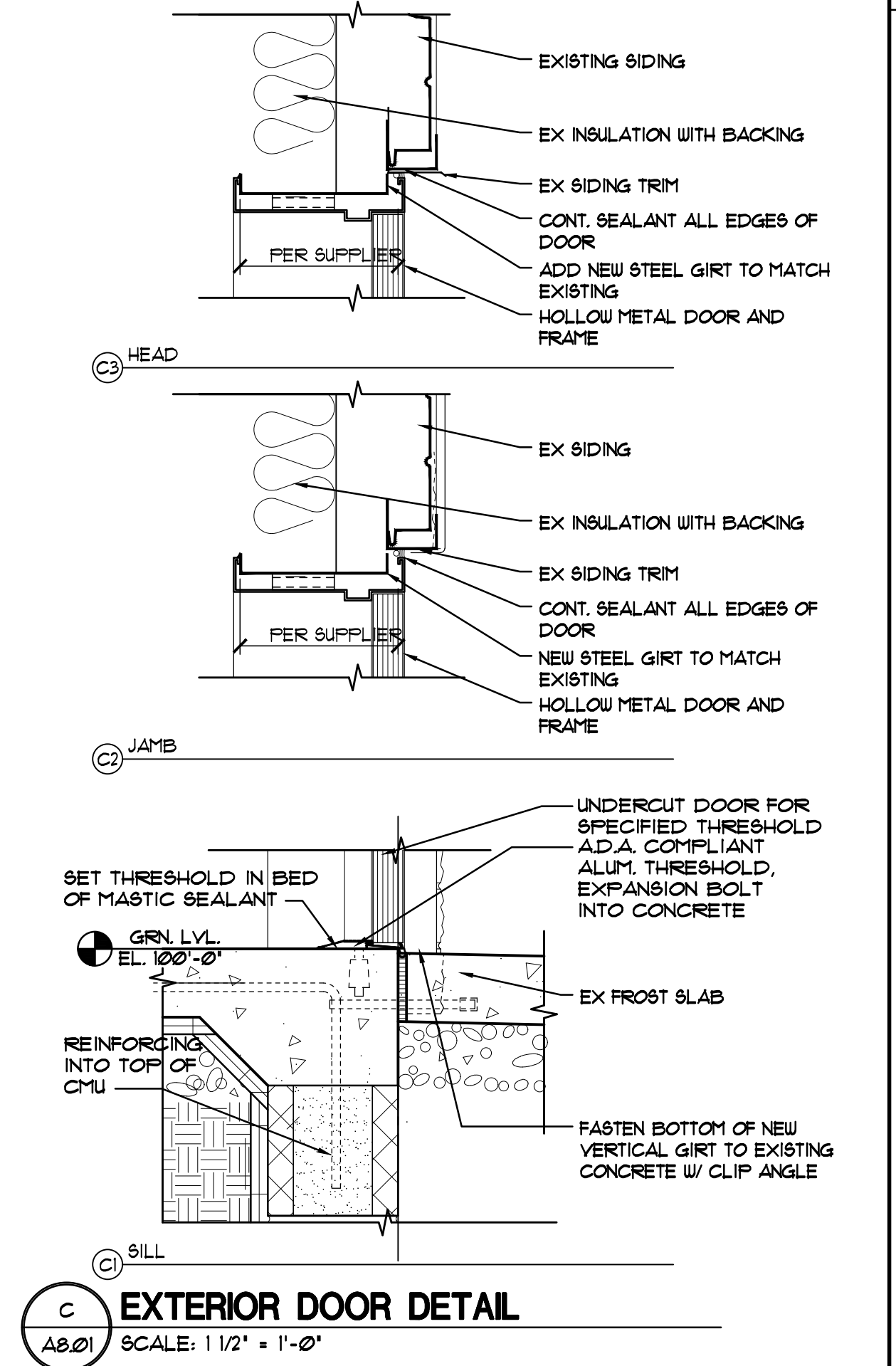
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|-----------------|----------------------|---------------|--------|
| DESIGN          | OWNER                | DIFFUSION NO. | 2307   |
| CHECKED BY      | GLC                  | DATE          | 6/6/23 |
| PROJECT MANAGER | GLC                  | REV. DATE     |        |
| SHEET TITLE     | ENLARGED FLOOR PLANS |               |        |
| SHEET NO.       | A4.01                |               |        |

Heath Newark Licking County Port Authority  
BUILDING RENOVATION  
1401 Mount Vernon Road  
Newark, Ohio 43055

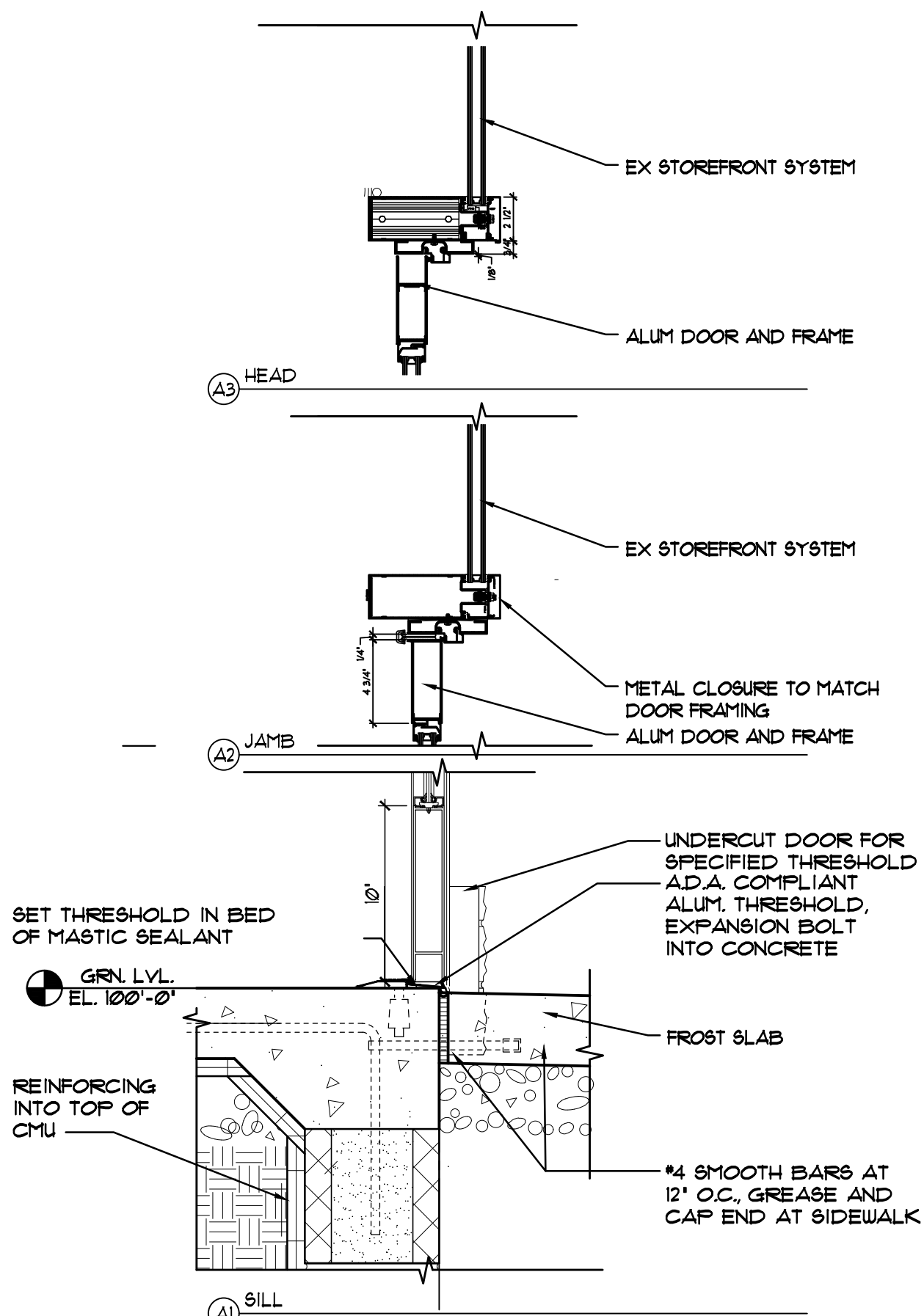
|                                                                                                                                                                       |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
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| FOR CONSTRUCTION                                                                                                                                                      | FOR REFERENCE ONLY |
| DATE                                                                                                                                                                  | DATE               |
| BY                                                                                                                                                                    | BY                 |
| REVISION                                                                                                                                                              | REVISION           |

JBA Architects, P.C.  
3535 Main Street  
Newark, Ohio 43055  
PH# 740-386-3391  
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**B**  
A8.01 SCALE: 1 1/2" = 1'-0"



**A**  
A8.01 SCALE: 1 1/2" = 1'-0"

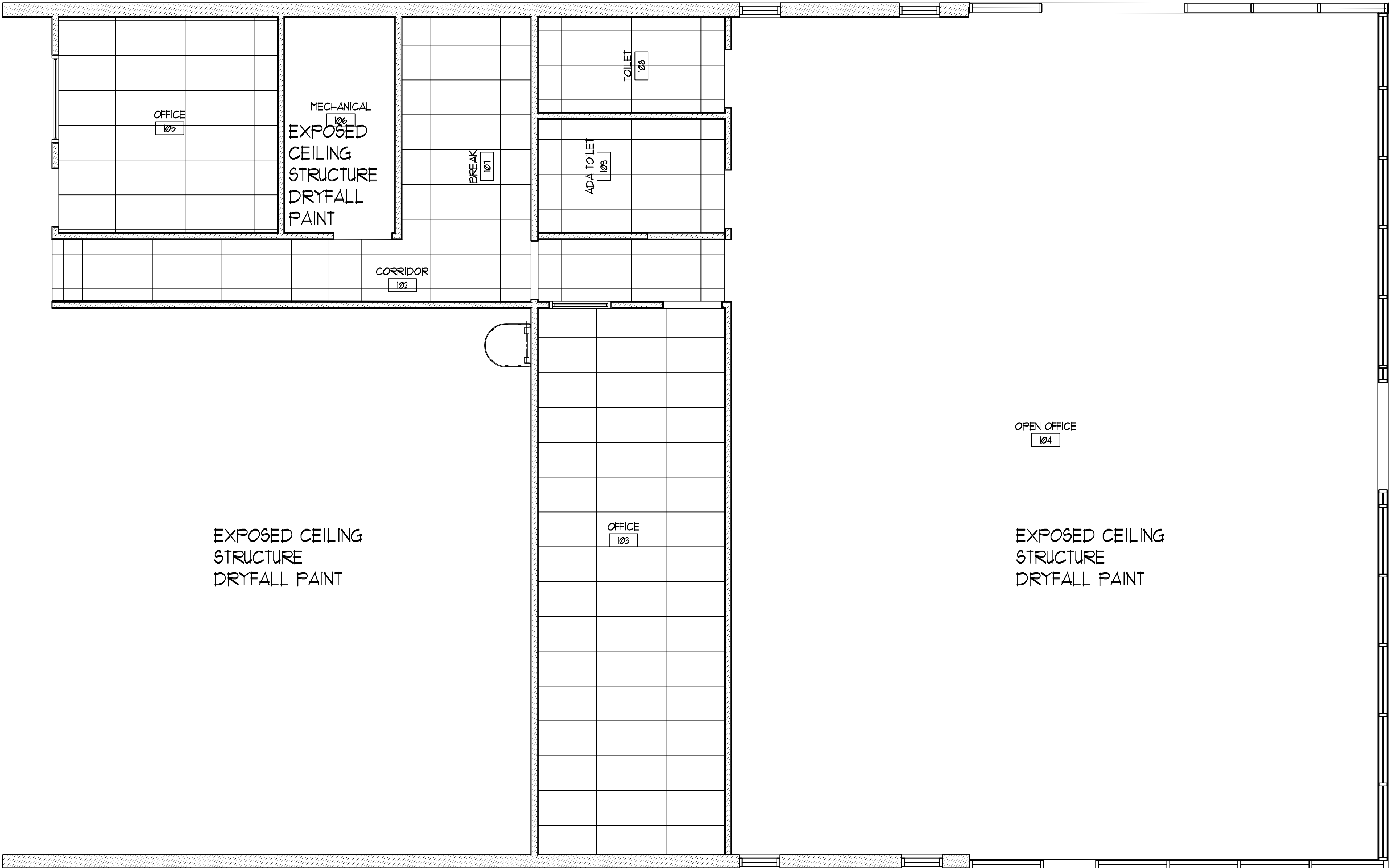
| HARDWARE TYPES                                                                                                                                                                                                             |                                                                   |                                |                         |        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------|-------------------------|--------|--|
| CONTRACTOR TO PROVIDE ALL HARDWARE FOR A COMPLETE WORKING SYSTEM INCLUDING ALL POWER CONTROLS AND LOCK CORES. IF THERE ARE DISCREPANCIES IN THE HARDWARE SETS PROVIDE ALL HARDWARE REQUIRED TO MAKE THE SYSTEM FUNCTIONAL. |                                                                   |                                |                         |        |  |
| HARDWARE SET 1                                                                                                                                                                                                             |                                                                   |                                |                         |        |  |
| OPENING                                                                                                                                                                                                                    | LOCATION                                                          |                                |                         |        |  |
| 104A                                                                                                                                                                                                                       | OPEN OFFICE TO EXTERIOR                                           |                                |                         |        |  |
| EXISTING 3070 ALUMXALUM CLEAR ANODIZED NEW HARDWARE W/ NEW GLASS                                                                                                                                                           |                                                                   |                                |                         |        |  |
| ENTRY DOOR FUNCTION -                                                                                                                                                                                                      | OPEN ACCESS DURING BUSINESS HOURS WITH PANIC HARDWARE             |                                |                         |        |  |
| MFR                                                                                                                                                                                                                        | QTY                                                               | ITEM TYPE                      | ITEM DESCRIPTION        | FINISH |  |
| DOOR SWING                                                                                                                                                                                                                 | HARDWARE EXISTING                                                 |                                |                         |        |  |
| LCN                                                                                                                                                                                                                        | 1.0                                                               | DOOR CLOSER                    | 4111 EDA                | 695    |  |
| VON                                                                                                                                                                                                                        | 1.0                                                               | 98 RM EXIT DEVICE              |                         | 626    |  |
| VON                                                                                                                                                                                                                        | 1.0                                                               | PULLS WITH KEYING PER SUPPLIER |                         | 626    |  |
| HARDWARE SET 2                                                                                                                                                                                                             |                                                                   |                                |                         |        |  |
| OPENING                                                                                                                                                                                                                    | LOCATION                                                          |                                |                         |        |  |
| 108                                                                                                                                                                                                                        | OPEN OFFICE TO UNISEX TOILET - NEW DOOR                           |                                |                         |        |  |
| 109                                                                                                                                                                                                                        | OPEN OFFICE TO UNISEX TOILET - NEW DOOR                           |                                |                         |        |  |
| MFR                                                                                                                                                                                                                        | QTY                                                               | ITEM TYPE                      | ITEM DESCRIPTION        | FINISH |  |
| HAG                                                                                                                                                                                                                        | 3.0                                                               | HINGES                         | BB1279 4.5" X 4.5"      | 626    |  |
| BEST                                                                                                                                                                                                                       | 1.0                                                               | PRIVACY LOCK                   | 9K30LD53                | 626    |  |
| HAG                                                                                                                                                                                                                        | 1.0                                                               | WALL STOP                      | 235W                    | US26D  |  |
| HAG                                                                                                                                                                                                                        | 1.0                                                               | KICK PLATES                    | 10"X30"                 | 630    |  |
| HARDWARE SET 3                                                                                                                                                                                                             |                                                                   |                                |                         |        |  |
| OPENING                                                                                                                                                                                                                    | LOCATION                                                          |                                |                         |        |  |
| 103                                                                                                                                                                                                                        | CORRIDOR TO OFFICE- EXISTING                                      |                                |                         |        |  |
| 105                                                                                                                                                                                                                        | CORRIDOR TO OFFICE - EXISTING                                     |                                |                         |        |  |
| 106                                                                                                                                                                                                                        | CORRIDOR TO MECHANICAL - EXISTING                                 |                                |                         |        |  |
| REPAIR/PAINT DOOR AND FRAME NEW HARDWARE                                                                                                                                                                                   |                                                                   |                                |                         |        |  |
| MFR                                                                                                                                                                                                                        | QTY                                                               | ITEM TYPE                      | ITEM DESCRIPTION        | FINISH |  |
| BEST                                                                                                                                                                                                                       | 1.0                                                               | ENTRANCE LOCK                  | 9K-3-7-AB-15D-A-STK-626 | 626    |  |
| BEST                                                                                                                                                                                                                       | 1.0                                                               | 7 PIN LOCK CORE AND TRIM       |                         | 626    |  |
| HAG                                                                                                                                                                                                                        | 1.0                                                               | WALL STOP                      | 235W                    | US26D  |  |
| HAG                                                                                                                                                                                                                        | 1.0                                                               | KICK PLATES                    | 10"X30"                 | 630    |  |
| HARDWARE SET 4                                                                                                                                                                                                             |                                                                   |                                |                         |        |  |
| OPENING                                                                                                                                                                                                                    | LOCATION                                                          |                                |                         |        |  |
| 101F                                                                                                                                                                                                                       | BAY TO EXTERIOR                                                   |                                |                         |        |  |
| 101G                                                                                                                                                                                                                       | BAY TO EXTERIOR                                                   |                                |                         |        |  |
| 101H                                                                                                                                                                                                                       | BAY TO EXTERIOR                                                   |                                |                         |        |  |
| 3070 NEW DOOR AND FRAME - 101G NEW STRUCTURAL FRAMING AROUND DOOR                                                                                                                                                          |                                                                   |                                |                         |        |  |
| MFR                                                                                                                                                                                                                        | QTY                                                               | ITEM TYPE                      | ITEM DESCRIPTION        | FINISH |  |
| VON                                                                                                                                                                                                                        | 1.0                                                               | EXIT DEVICE                    | 98LD06                  | 626    |  |
| LCN                                                                                                                                                                                                                        | 1.0                                                               | DOOR CLOSER                    | 4041 REG PA             | 689    |  |
| GLN                                                                                                                                                                                                                        | 1.0                                                               | OH STOP                        | 81 SERIES               | 630    |  |
| NBP                                                                                                                                                                                                                        | 1.0                                                               | WEATHERSTRIP                   | 160SA                   |        |  |
| NBP                                                                                                                                                                                                                        | 1.0                                                               | THRESHOLD                      | 896S                    |        |  |
| HARDWARE SET 5                                                                                                                                                                                                             |                                                                   |                                |                         |        |  |
| OPENING                                                                                                                                                                                                                    | LOCATION                                                          |                                |                         |        |  |
| 104C-104D                                                                                                                                                                                                                  | OPEN OFFICE TO EXTERIOR                                           |                                |                         |        |  |
| 8080 ALUMXALUM EXISTING UNEQUAL PAIR CLEAR ANODIZED W/ NEW GLASS                                                                                                                                                           |                                                                   |                                |                         |        |  |
| ENTRY DOOR FUNCTION -                                                                                                                                                                                                      | OPEN ACCESS DURING BUSINESS HOURS WITH PANIC HARDWARE ACTIVE LEAF |                                |                         |        |  |
| MFR                                                                                                                                                                                                                        | QTY                                                               | ITEM TYPE                      | ITEM DESCRIPTION        | FINISH |  |
| DOOR                                                                                                                                                                                                                       | HARDWARE PER DOOR SUPPLIER                                        |                                |                         |        |  |
| LCN                                                                                                                                                                                                                        | 1.0                                                               | DOOR CLOSER                    | 4111 EDA                | 695    |  |
| VON                                                                                                                                                                                                                        | 1.0                                                               | 98 RM EXIT DEVICE              |                         | 626    |  |
| HAG                                                                                                                                                                                                                        | 2.0                                                               | FLUSHBOLTS                     | TOP & BOTTOM            | 626    |  |
| VON                                                                                                                                                                                                                        | 2.0                                                               | PULLS WITH KEYING PER SUPPLIER |                         | 626    |  |
| VON                                                                                                                                                                                                                        | 4.0                                                               | STRIKES PER SUPPLIER -         | DUSTLESS AT FLOOR       | 626    |  |
| HARDWARE SET 6                                                                                                                                                                                                             |                                                                   |                                |                         |        |  |
| OPENING                                                                                                                                                                                                                    | LOCATION                                                          |                                |                         |        |  |
| 102                                                                                                                                                                                                                        | OPEN OFFICE TO CORRIDOR - EXISTING                                |                                |                         |        |  |
| REPAIR/PAINT DOOR AND FRAME NEW HARDWARE                                                                                                                                                                                   |                                                                   |                                |                         |        |  |
| MFR                                                                                                                                                                                                                        | QTY                                                               | ITEM TYPE                      | ITEM DESCRIPTION        | FINISH |  |
| BEST                                                                                                                                                                                                                       | 1.0                                                               | PASSAGE LOCK                   | 9K-15D PASSAGE          | 626    |  |
| YALE                                                                                                                                                                                                                       | 1.0                                                               | DOOR CLOSER                    | 4400 REG PA             | 689    |  |
| HAG                                                                                                                                                                                                                        | 1.0                                                               | WALL STOP                      | 235W                    | US26D  |  |
| HAG                                                                                                                                                                                                                        | 1.0                                                               | KICK PLATES                    | 10"X30"                 | 630    |  |
| HARDWARE SET 7                                                                                                                                                                                                             |                                                                   |                                |                         |        |  |
| OPENING                                                                                                                                                                                                                    | LOCATION                                                          |                                |                         |        |  |
| 104B                                                                                                                                                                                                                       | OPEN OFFICE TO EXTERIOR                                           |                                |                         |        |  |
| 6070 ALUMXALUM NEW CLEAR ANODIZED SWING HARDWARE                                                                                                                                                                           |                                                                   |                                |                         |        |  |
| ENTRY DOOR FUNCTION -                                                                                                                                                                                                      | OPEN ACCESS DURING BUSINESS HOURS WITH PANIC HARDWARE             |                                |                         |        |  |
| MFR                                                                                                                                                                                                                        | QTY                                                               | ITEM TYPE                      | ITEM DESCRIPTION        | FINISH |  |
| DOOR                                                                                                                                                                                                                       | HARDWARE PER DOOR SUPPLIER                                        |                                |                         |        |  |
| LCN                                                                                                                                                                                                                        | 2.0                                                               | DOOR CLOSER                    | 4111 EDA                | 695    |  |
| VON                                                                                                                                                                                                                        | 2.0                                                               | 98 CONCEALED ROD EXIT DEVICE   |                         | 626    |  |
| VON                                                                                                                                                                                                                        | 1.0                                                               | PULLS WITH KEYING PER SUPPLIER |                         | 626    |  |
| VON                                                                                                                                                                                                                        | 4.0                                                               | STRIKES PER SUPPLIER -         | DUSTLESS AT FLOOR       | 626    |  |
| NOTES                                                                                                                                                                                                                      |                                                                   |                                |                         |        |  |
| SEE THIS SHEET FOR HEAD AND JAMB DETAILS. REFER TO SHEET A1.01 FOR FOR LOCATIONS.                                                                                                                                          |                                                                   |                                |                         |        |  |

| DOOR SCHEDULE |        |        |        |      |        |         |         |      |        |                           |      |      |            |       |              |                                  |
|---------------|--------|--------|--------|------|--------|---------|---------|------|--------|---------------------------|------|------|------------|-------|--------------|----------------------------------|
| MARK          | SIZE   |        |        | DOOR |        |         | FRAME   |      |        | DETAILS (THIS SHIT, UNO.) |      |      | HOUR GROUP | LABEL | SIGNAGE TYPE | REMARKS                          |
|               | WIDTH  | HEIGHT | THK.   | TYPE | MAT'L. | FINISH  | GLAZING | TYPE | MAT'L. | FINISH                    | SILL | JAMB | HEAD       |       |              |                                  |
| 104A          | 12'-0" | 10'-0" | 1 3/4" | OH8  | STL.   | PREFIN. | --      | EX   | EX     | EX                        | EX   | EX   | EX         | EX    | --           | NEW SEALS ALL SIDES/ CLEAN/PAINT |
| 104B          | 12'-0" | 10'-0" | 1 3/4" | OH8  | STL.   | PREFIN. | --      | EX   | EX     | EX                        | EX   | EX   | EX         | EX    | --           | NEW SEALS ALL SIDES/ CLEAN/PAINT |
| 104C          | 12'-0" | 10'-0" | 1 3/4" | OH8  | STL.   | PREFIN. | --      | EX   | EX     | EX                        | EX   | EX   | EX         | EX    | --           | NEW SEALS ALL SIDES/ CLEAN/PAINT |
| 104D          | 3'-0"  | 7'-0"  | 1 3/4" | G    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104E          | 3'-0"  | 7'-0"  | 1 3/4" | G    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104F          | 3'-0"  | 7'-0"  | 1 3/4" | G    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104G          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104H          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104I          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104J          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104K          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104L          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104M          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104N          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104O          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104P          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104Q          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104R          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104S          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104T          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104U          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104V          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104W          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104X          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104Y          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104Z          | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104AA         | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104AB         | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104AC         | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |
| 104AD         | 3'-0"  | 7'-0"  | 1 3/4" | F    | HM     | PT      | --      | EX   | HM     | PT                        | EX   | EX   | EX         | EX    | --           | TACTILE EXIT                     |

| ROOM FINISH ABBREVIATIONS/SPECIFICATIONS |                                                                 |                                                                                                                             |
|------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>FLOORS:</b>                           |                                                                 |                                                                                                                             |
| CPT                                      | CARPET TILE                                                     | SHAW - COLLECTION CLEARVIEW - STYLE TRANSPARENT TILE- COLOR TO BE SELECTED BY OWNER- INSTALLATION TO BE DETERMINED IN FIELD |
| POL                                      | POLISHED CONCRETE                                               | SEALED POLISHED CONCRETE FLOOR FINAL SHEEN SATIN                                                                            |
| SC-1                                     | EXISTING CONCRETE FLOOR TO BE CLEANED AND SEALED                |                                                                                                                             |
| EPX                                      | EPOXY FLOOR COATING                                             | EQUAL TO STONEHARD STONCLAD EPOXY FLOOR COATING COLOR TO BE SELECTED FROM STANDARD MFR COLORS                               |
| <b>BASE:</b>                             |                                                                 |                                                                                                                             |
| RCB                                      | RESILIENT COVE BASE                                             | JOHNSONITE 4" VINYL BASE COLOR TO BE DETERMINED                                                                             |
| <b>WALLS:</b>                            |                                                                 |                                                                                                                             |
| PT-1                                     | PAINT, INTERIOR                                                 | PAINT ALL WALLS INCLUDING VINYL SCRM BACKING IN PRODUCTION AREAS                                                            |
| PT-2                                     | PAINT, ACCENT                                                   | PAINT SELECTED WALLS PER OWNER DIRECTION                                                                                    |
| PT-3                                     | STEEL STRUCTURE                                                 | DRY-FALL PAINT EXPOSED TO VIEW BUILDING STRUCTURE                                                                           |
| PT-4                                     | HM. DOOR AND FRAME                                              | LOW GLOSS OIL BASED COLOR TBD                                                                                               |
| EP                                       | EPOXY PAINT                                                     | EQUAL TO BEHR HP150 WATER BASED EPOXY WALL PAINT                                                                            |
| LNR                                      | LINER PANELS                                                    | WHITE 29 GA LINER PANELS EQUAL TO MCELROY METALS LINER PANELS                                                               |
| <b>CEILING:</b>                          |                                                                 |                                                                                                                             |
| SAT                                      | SUSPENDED ACOUSTICAL TILE                                       | SEE SPECS.                                                                                                                  |
| <b>MISCELLANEOUS:</b>                    |                                                                 |                                                                                                                             |
| LAM                                      | LAMINATE COUNTER TOP AND CABINETS COLOR TO BE SELECTED BY OWNER |                                                                                                                             |

- PAINING - SCHEDULE**
- INTERIOR WALLS
1. DRYWALL PARTITIONS
  - 1.1. ONE (1) COAT LOW-ODOR/VOC INTERIOR LATEX PRIMER/SEALER
  - 1.2. TWO (2) COATS LOW-ODOR/VOC INTERIOR LATEX SATIN FINISH
  2. INTERIOR / EXTERIOR CONCRETE MASONRY
  - 2.1. ONE (1) COAT LOW-ODOR/VOC INTERIOR LATEX BLOCK FILLER
  - 2.2. TWO (2) COATS LOW-ODOR/VOC INTERIOR LATEX SATIN FINISH
  3. INTERIOR INSULATION SCRIM BACKING
  - 3.1. CLEAN EXISTING AND PATCH ALL HOLES AND TEARS
  - 3.2. TWO (2) COATS LOW-ODOR/VOC INTERIOR LATEX SATIN FINISH
  - 3.3. VERIFY ADHESION AND FLEXIBILITY PER PAINT SUPPLIER REQUIREMENTS
- HOLLOW METAL DOORS, DOOR FRAMES AND WINDOW FRAMES
1. EXTERIOR DOORS AND FRAMES
  - 1.1. PRIME COAT PER SUPPLIER COMPATIBLE WITH TOP COAT
  - 1.2. TWO (2) COATS TO MATCH EXTERIOR PAINT FINISH
  2. INTERIOR DOORS AND FRAMES
  - 2.1. PRIME COAT PER SUPPLIER COMPATIBLE WITH TOP COAT
  - 2.2. TWO (2) COATS (1) LOW-ODOR/VOC INTERIOR OIL SEMI-GLOSS
- EXPOSED STEEL STRUCTURE, CONDUITS AND DECK
1. PRIME COAT PER SUPPLIER COMPATIBLE WITH TOP COAT
  2. AFTER INSTALLATION FIELD PRIME DAMAGED AREAS WITH LIKE PRIMER
  3. TWO (2) COATS ALKYD DRY-FALL SYSTEM INDUSTRIAL GLOSS ENAMEL
- FINISH NOTES:**
- A. SEALANT IS REQUIRED AT ALL CONTROL JOINT LOCATIONS - REFER TO SPECIFICATION SECTION 01 50 05
  - B. INSTALL MOISTURE BARRIER BETWEEN CONC. SLAB & LUXURY VINYL TILE (LVT).
  - C. PROVIDE AND INSTALL 29 GA WHITE METAL LINER PANELS ON ROOM 101 WALLS WITH EXPOSED INSULATION FULL HEIGHT. LINER PANELS TO BE EQUAL TO WHITE MCELROY METALS LINER PANELS

| ROOM FINISH SCHEDULE                                                                                                                                                |             |         |      |          |      |          |          |         |           |        |                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|------|----------|------|----------|----------|---------|-----------|--------|----------------------------------------------|
| MARK                                                                                                                                                                | ROOM NAME   | FLOOR   | BASE | WALLS    |      |          |          | CEILING |           |        | REMARKS                                      |
|                                                                                                                                                                     |             |         |      | NORTH    | EAST | SOUTH    | WEST     | MATL.   | FINISH    | HEIGHT |                                              |
| 101                                                                                                                                                                 | BAY 1       | EPX     | RCB  | PT-1/LNR | PT-2 | PT-1/LNR | PT-1/LNR | STL/LNR | PT-3/PT-1 | --     | PREP FLR FOR NEW EPOXY CEILING ANTIQUE WHITE |
| 102                                                                                                                                                                 | CORRIDOR    | EX TILE | RCB  | PT-1     | PT-1 | PT-1     | PT-2     | SAT     | --        | 8'-0"  | REPAIR/POLISH FLR TILE                       |
| 103                                                                                                                                                                 | OFFICE      | CPT     | RCB  | PT-1     | PT-1 | PT-1     | PT-2     | SAT     | --        | 8'-0"  |                                              |
| 104                                                                                                                                                                 | OPEN OFFICE | EX TILE | RCB  | PT-1     | PT-1 | PT-1     | PT-2     | EXP     | PT        | VARIES | REPAIR/POLISH FLR TILE CEILING BLACK         |
| 105                                                                                                                                                                 | OFFICE      | CPT     | RCB  | PT-1     | PT-1 | PT-1     | PT-2     | SAT     | --        | 8'-0"  |                                              |
| 106                                                                                                                                                                 | MECHANICAL  | SC-1    | RCB  | PT-1     | PT-1 | PT-1     | PT-1     | --      | --        | --     |                                              |
| 107                                                                                                                                                                 | BREAK       | LVT     | RCB  | PT-1     | PT-1 | PT-1     | PT-1     | SAT     | --        | 8'-0"  |                                              |
| 108                                                                                                                                                                 | TOILET      | LVT     | RCB  | EP       | EP   | EP       | EP       | SAT     | --        | 8'-0"  |                                              |
| 109                                                                                                                                                                 | ADA TOILET  | LVT     | RCB  | EP       | EP   | EP       | EP       | SAT     | --        | 8'-0"  |                                              |
| <b>NOTES:</b>                                                                                                                                                       |             |         |      |          |      |          |          |         |           |        |                                              |
| 1) SEE REFLECTED CEILING PLAN FOR SAT. CEILING LOCATION. REMAINDER OF AREA IS TO BE EXPOSED ABOVE. PAINT EXPOSED STRUCTURE, DUCTWORK & OTHER DEVICES W/ PAINT PT-3. |             |         |      |          |      |          |          |         |           |        |                                              |



1 REFLECTED CEILING PLAN  
A9.01 SCALE: 1/4" = 1'-0"

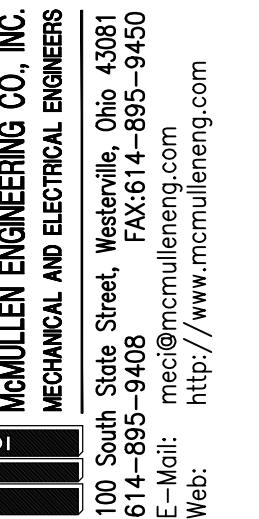
JBA architects  
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HEATH NEWARK LICKING COUNTY PORT AUTHORITY  
BUILDING RENOVATION  
1401 Mount Vernon Road  
Newark, Ohio 43055

PERMIT SET

|                      |                                        |      |         |
|----------------------|----------------------------------------|------|---------|
| DESIGN               | OWNER                                  | DATE | 2/20/23 |
| CHECKED BY           | GLC                                    | DATE | 6/6/23  |
| PROJECT NUMBER       | GLC                                    | DATE |         |
| SHEET TITLE          | REFLECTED CEILING / FLOOR FINISH PLANS |      |         |
| ROOM FINISH SCHEDULE |                                        |      |         |
| SHEET NO.            |                                        |      |         |

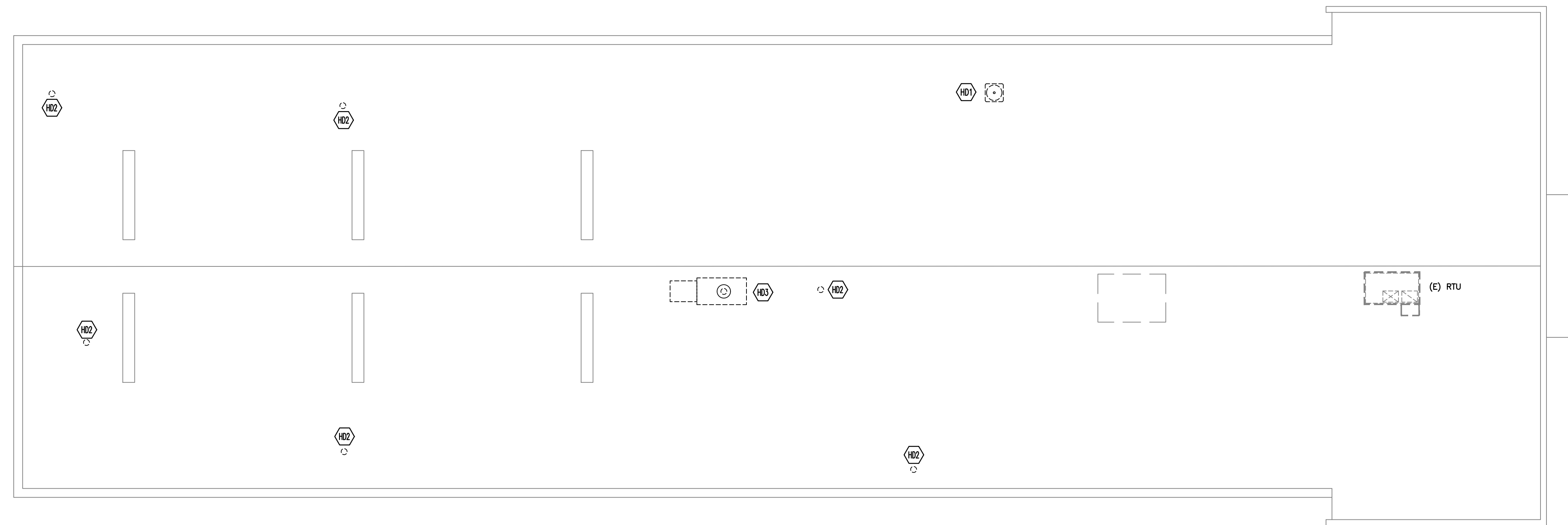
A9.01



|      | REVIEW SET | 01/30/2023 |
|------|------------|------------|
|      | PERMIT SET | 06/06/2023 |
|      |            |            |
|      |            |            |
|      |            |            |
| REV. | REVISION   | DATE       |
| HANK |            |            |

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|                  |                               |           |            |  |  |  |
|------------------|-------------------------------|-----------|------------|--|--|--|
| SHEET NO.        |                               |           |            |  |  |  |
|                  | <b>DEMO PLAN - MECHANICAL</b> |           |            |  |  |  |
| <b>MD1.01</b>    |                               |           |            |  |  |  |
| DRAWN BY:        | MECI                          | DATE:     | 06/06/2023 |  |  |  |
| CHECKED BY:      | MECI                          | REV DATE: |            |  |  |  |
| PROJECT MANAGER: | JUN                           |           |            |  |  |  |
| SHEET TITLE:     |                               |           |            |  |  |  |
| LOCATION:        | 2309-B                        |           |            |  |  |  |



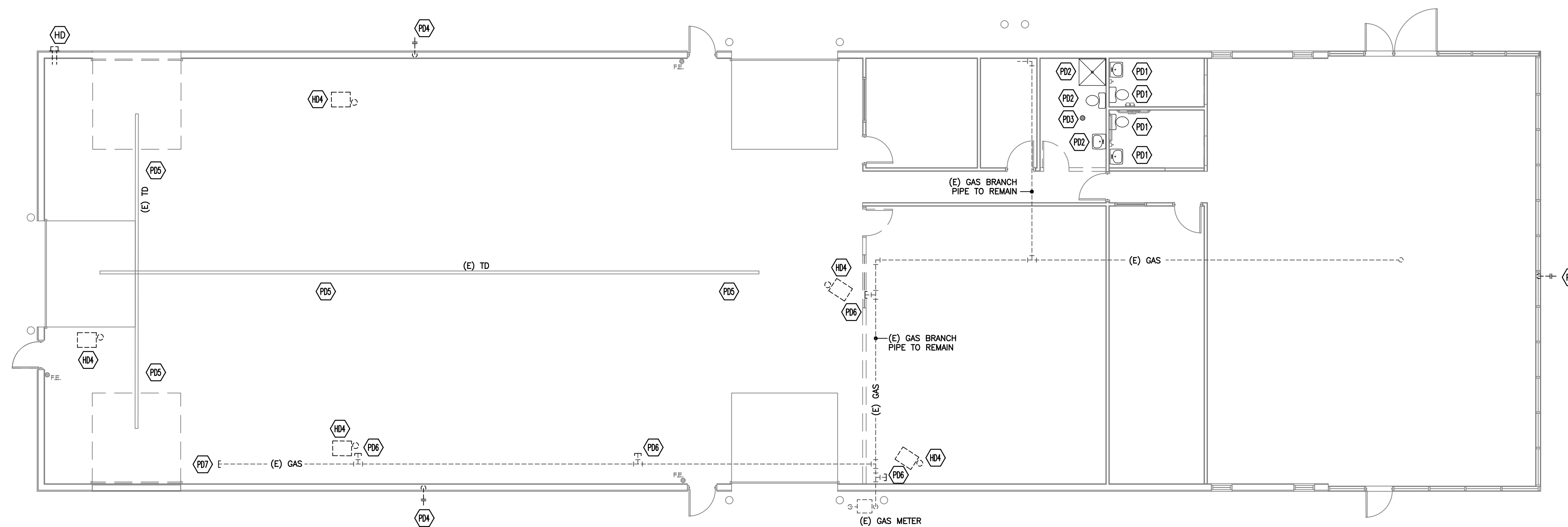
## ROOF PLAN - MECHANICAL DEMOLITION

## HVAC DEMO NOTES

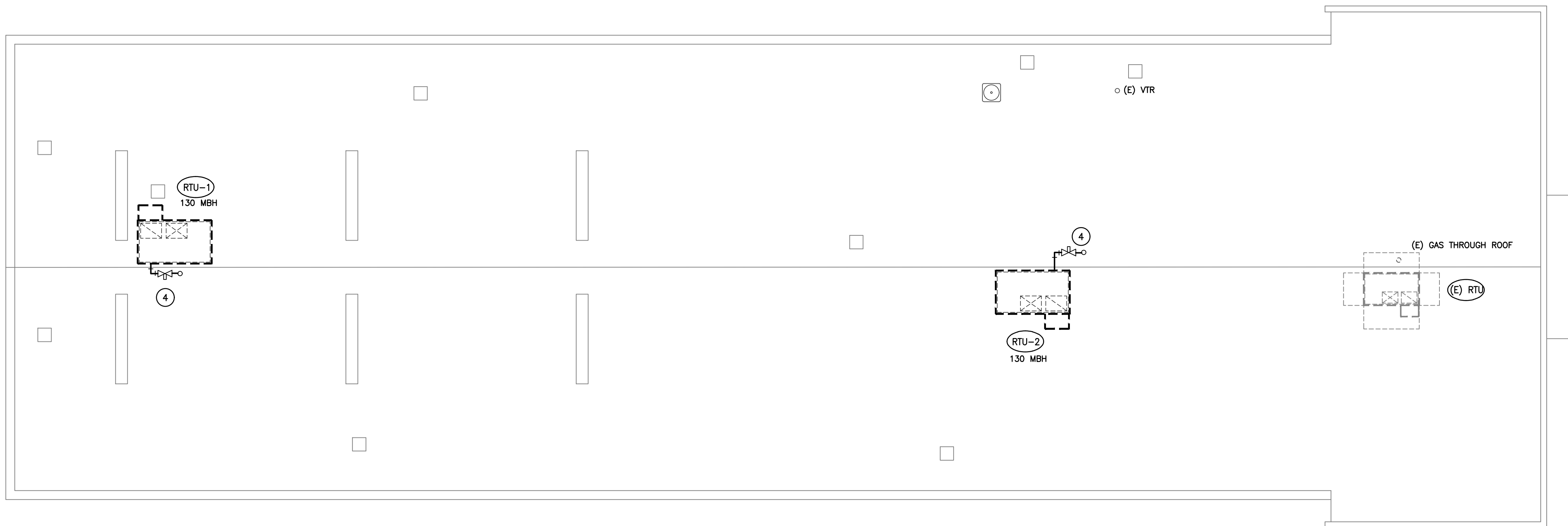
|       |                                                                                                                                                              |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (H07) | HVAC CONTRACTOR SHALL REMOVE EXISTING CONDENSING UNIT, PAD AND REFRIGERANT UNLESET. PREP AREA FOR REPLACEMENT CONDENSING UNIT.                               |
| (H02) | HVAC CONTRACTOR SHALL DEMOLISH UNIT HEATER FLUE PIPING AND CAP. GC TO CAP AND SEAL ROOF PENETRATION WATER TIGHT.                                             |
| (H01) | HVAC CONTRACTOR SHALL DEMOLISH ROOF MOUNTED MAKE-UP AIR UNIT, CONTROLS AND ALL ASSOCIATED GRILLES/DUCTWORK. GC TO CAP AND SEAL ROOF PENETRATION WATER TIGHT. |
| (H04) | HVAC CONTRACTOR SHALL REMOVE EXISTING GAS FIRED UNIT HEATER IN ITS ENTIRETY.                                                                                 |
| (H05) | HVAC CONTRACTOR SHALL DEMOLISH WALL VENT PIPING AND CAP. GC TO CAP AND SEAL WALL PENETRATION WATER TIGHT.                                                    |
| (H06) | HVAC CONTRACTOR SHALL DEMOLISH FLUE PIPING AND ROOF CAP. GC TO CAP AND SEAL ROOF PENETRATION WATER TIGHT.                                                    |

## PLUMBING DEMO NOTES

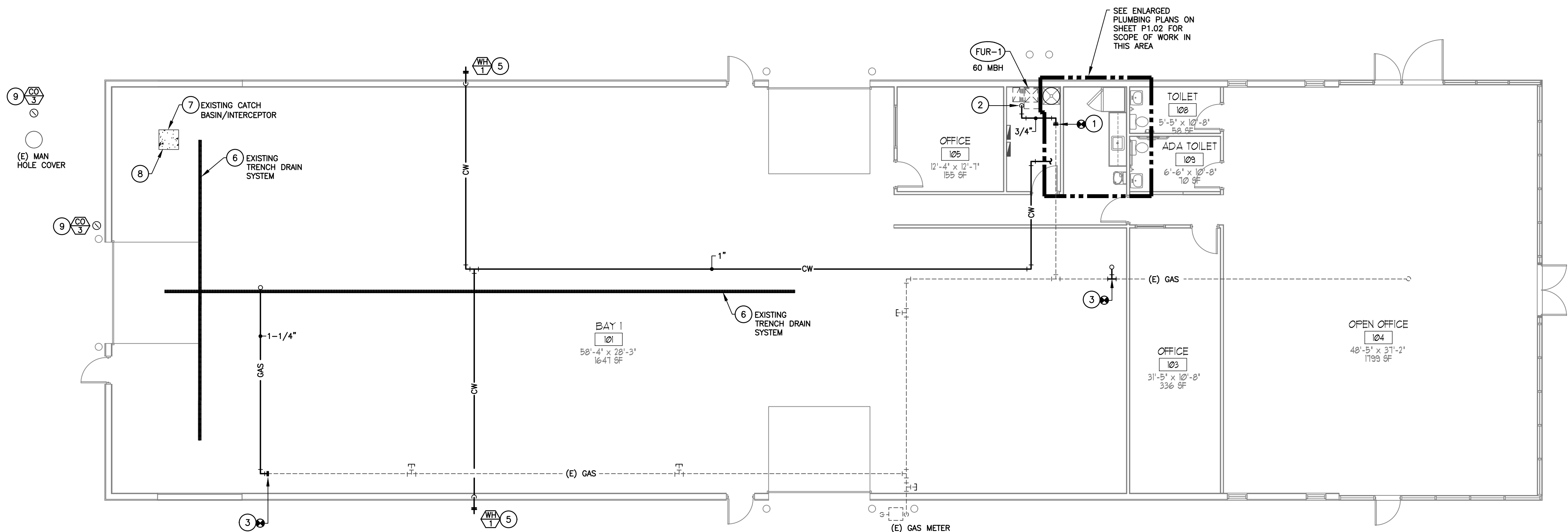
|       |                                                                                                                                                                                               |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (P01) | PLUMBING CONTRACTOR SHALL REMOVE EXISTING PLUMBING FIXTURES AND PREP FOR REPLACEMENT.                                                                                                         |
| (P02) | PLUMBING CONTRACTOR SHALL REMOVE EXISTING PLUMBING FIXTURE AND CAP OFF WATER PIPING BELOW SLAB.                                                                                               |
| (P03) | PLUMBING CONTRACTOR SHALL REMOVE FLOOR DRAIN BODY, CAP OFF BRANCH PIPING BELOW SLAB.                                                                                                          |
| (P04) | PLUMBING CONTRACTOR SHALL REMOVE REMNANTS OF EXISTING WALL HYDRANT. PREP WALL FOR REPLACEMENT.                                                                                                |
| (P05) | PLUMBING CONTRACTOR SHALL REMOVE EXISTING TRENCH DRAIN GRATE ONLY, NOT TRENCH DRAIN BODY. PREP FOR NEW REPLACEMENT TRENCH DRAIN GRATE.                                                        |
| (P06) | PLUMBING CONTRACTOR SHALL REMOVE GAS BRANCH PIPING AND CAP OFF BACK AT MAIN.                                                                                                                  |
| (P07) | PLUMBING CONTRACTOR SHALL REMOVE GAS PIPING DOWN STREAM OF THIS POINT AND CAP OFF.                                                                                                            |
| (P08) | PLUMBING CONTRACTOR SHALL DEMOLISH EXISTING WALL HYDRANT. CAP OFF WATER PIPING BELOW SLAB AND BACK FAR ENOUGH WHERE IT WILL NOT INTERFERE WITH FUTURE CONSTRUCTION OF NEW STOREFRONT DOORWAY. |



## FLOOR PLAN - MECHANICAL DEMOLITION



**ROOF PLAN - PLUMBING**  
SCALE: 1/8" = 1'-0"



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

| PLUMBING LEGEND                                          |                                                   |
|----------------------------------------------------------|---------------------------------------------------|
| W                                                        | WATER SERVICE PIPING                              |
| CW                                                       | COLD WATER SUPPLY PIPING                          |
| HW                                                       | HOT WATER SUPPLY PIPING                           |
| HW-R                                                     | HOT WATER RETURN PIPING                           |
| SAN                                                      | SANITARY PIPING                                   |
| ST                                                       | STORM PIPING                                      |
| F                                                        | FIRE PROTECTION PIPING                            |
| GAS                                                      | LOW PRESSURE GAS PIPING                           |
| XXX                                                      | NEW PIPING                                        |
| (E)XXX                                                   | EXISTING PIPING                                   |
| UNION                                                    | UNION                                             |
| →                                                        | DIRECTION OF FLOW                                 |
| Gate Valve Symbol                                        | GATE VALVE (LINE SIZE)                            |
| Ball Valve Symbol                                        | BALL VALVE (LINE SIZE)                            |
| Check Valve Symbol                                       | CHECK VALVE (LINE SIZE)                           |
| Balancing Valve Symbol                                   | BALANCING VALVE (LINE SIZE)                       |
| Lubricated Plug Valve Symbol                             | LUBRICATED PLUG VALVE (LINE SIZE)                 |
| Pump Symbol                                              | PUMP                                              |
| Valve Box & Service Shut-off Valve Symbol                | VALVE BOX & SERVICE SHUT-OFF VALVE                |
| Shock Arrestor Symbol                                    | SHOCK ARRESTOR                                    |
| Pressure Gauge Symbol                                    | PRESSURE GAUGE                                    |
| Thermometer Symbol                                       | THERMOMETER                                       |
| Note Designation Symbol                                  | NOTE DESIGNATION                                  |
| Unit Number Designation Symbol                           | UNIT NUMBER DESIGNATION                           |
| Point of Connection Between New and Existing Work Symbol | POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK |
| Vertical Storm Leader Symbol                             | VERTICAL STORM LEADER                             |
| R.D. Symbol                                              | ROOF DRAIN                                        |
| F.S. Symbol                                              | FLOOR SINK                                        |
| F.D. Symbol                                              | FLOOR DRAIN                                       |
| H.D. Symbol                                              | HUB DRAIN                                         |
| C.O. Symbol                                              | CLEANOUT (CO-1)                                   |
| C.O. Symbol                                              | CLEANOUT PLUG (CO-2)                              |
| C.O. Symbol                                              | OUTSIDE CLEANOUT (CO-3)                           |
| Single Hose Bibb Symbol                                  | SINGLE HOSE BIBB (INSTALL 42" A.F.F.)             |
| Wall Hydrant Symbol                                      | WALL HYDRANT (INSTALL 18" ABOVE FIN. GRADE)       |
| P.C. Symbol                                              | PLUMBING CONTRACTOR                               |
| F.P.C. Symbol                                            | FIRE PROTECTION CONTRACTOR                        |
| H.C. Symbol                                              | HEAT AND VENT CONTRACTOR                          |
| E.C. Symbol                                              | ELECTRICAL CONTRACTOR                             |
| G.C. Symbol                                              | GENERAL CONTRACTOR                                |

- PLUMBING GENERAL NOTES**
- COORDINATE ALL WORK WITH OTHER TRADES.
  - FIELD VERIFY ALL EXISTING SERVICES AND INVERTS.
  - PLUMBING CONTRACTOR SHALL CONNECT TO EXISTING BUILDING SERVICES.
  - SANITARY AND WATER SERVICES BY PLUMBING CONTRACTOR. COORDINATE EXACT LOCATIONS AND INVERTS WITH EXISTING SERVICES.
  - SCHEDULE ALL WORK WITH ARCHITECT AND G.C.
  - COORDINATE PIPING WHICH IS LOCATED BELOW FLOOR WITH BUILDING FOUNDATIONS AND/OR STRUCTURE.
  - FIELD VERIFY EXACT LOCATION OF ALL NEW FIXTURES, EQUIPMENT AND DRAINS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS.
  - SANITARY PIPING LOCATED BELOW FLOOR. PITCH 4" PIPE 1/8" PER FT. PITCH 3" PIPE 1/4" PER FT.
  - CW/HW PIPING LOCATED WITHIN FLOOR JOISTS. (TYPE "L")  
CW/HW PIPING LOCATED BELOW FLOOR SLAB (TYPE "X")
  - ALL PIPING SYSTEMS SHALL BE COORDINATED WITH FIXTURING PLAN, ARCHITECTURAL PLANS AND STRUCTURAL PLANS. COORDINATE PIPING ROUTES WITH FIXTURES, DUCTWORK, LIGHT FIXTURES, ETC.
  - PLUMBING CONTRACTOR SHALL OBTAIN PERMITS AND PAY ALL FEES ASSOCIATED WITH PLUMBING WORK SHOWN.
  - ALL PIPING FOR PLUMBING FIXTURE ROUGH-INS TO BE LOCATED IN WALLS AND CHASE UNLESS OTHERWISE NOTED.
  - CHROME ESCHUTCHON PLATE SHALL BE PROVIDED WHERE SANITARY, CW AND HW PIPE ROUGH-IN PENETRATES WALL IN FINISHED AREA.
  - ALL WALL AND SLAB PENETRATIONS OF CONSTRUCTION TO BE SLEEVED. SLEEVES SHALL BE SCHEDULE #40 BLACK STEEL MACHINE CUT AND SHALL BE INSTALLED FLUSH WITH FINISHED SURFACES.
  - PROVIDE CW AND HW SHUT-OFF VALVES, ON BRANCH PIPES, AT EACH GROUP OF FIXTURES.
  - PROVIDE SHOCK ARRESTORS AT EACH GROUP OF FIXTURES. SIZE PER MANUFACTURER'S REQUIREMENTS.
  - ALL PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE.
  - EXPOSED PIPING SHALL BE HELD TIGHT TO BUILDING STRUCTURE. GENERAL CONTRACTOR TO PAINT PIPE TO MATCH ADJACENT SURFACES.
  - PIPING LAYOUT IS ONLY SCHEMATIC. EXACT LOCATION OF PIPES TO BE COORDINATED WITH BUILDING STRUCTURE AND OTHER TRADES. PIPING SHALL BE KEPT PERPENDICULAR AND PARALLEL TO WALLS AND FLOORS.  
REFER TO DIVISION 1 AND 15 IN THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- PLUMBING CODED NOTES**
- CONNECT TO EXISTING GAS BRANCH PIPING AND EXTEND A NEW 3/4" BRANCH PIPE TO NEW FURNACE.
  - CONTRACTOR SHALL PROVIDE A UNION, SHUT-OFF VALVE AND 6" DIRT LEG. MAKE FINAL CONNECTION TO FURNACE.
  - TIE INTO EXISTING GAS MAIN AND EXTEND NEW 1-1/4" GAS PIPE UP THROUGH ROOF TO NEW ROOFTOP UNITS.
  - CONTRACTOR SHALL PROVIDE A UNION, SHUT-OFF VALVE AND 6" DIRT LEG. MAKE FINAL CONNECTION TO ROOFTOP UNIT.
  - PROVIDE AND INSTALL A NEW FROST PROOF WALL HYDRANT. REUSE EXISTING BUILDING PENETRATION.
  - PROVIDE AND INSTALL A NEW TRENCH DRAIN GRATE. GRATE SHALL BE CLASS A GALVANIZED STEEL, SLOTTED, AND SIZED TO PROPERLY FIT EXISTING TRENCH DRAIN SYSTEM. GRATE SHALL BE INSTALLED FLUSH WITH EXISTING SLAB.
  - GC SHALL REMOVE ANY DEBRIS, CLEAN/FLUSH EXISTING CATCH BASIN/SEDIMENT INTERCEPTOR AND ENSURE SYSTEM IS FULLY FUNCTIONAL.
  - PROVIDE AND INSTALL A NEW 28"x28" CATCH BASIN COVER WITH SEAL. INSTALL FLUSH WITH EXISTING SLAB.
  - CONTRACTOR SHALL REPLACE DAMAGED/MISSING EXTERIOR CLEANOUTS.

PROFESSIONAL ARCHITECTS

REGISTERED PROFESSIONAL ENGINEER

**McMullen Engineering Co., Inc.**  
MECHANICAL AND ELECTRICAL ENGINEERS  
100 South State Street, Westerville, Ohio 43081  
614-895-9408 FAX 614-895-9450  
Web: <http://www.mcmulleneng.com>

| REVIEW SET | DATE       | BY | DATE | REVISION |
|------------|------------|----|------|----------|
|            | 01/20/2023 |    |      |          |
| PERMIT SET | 06/06/2023 |    |      |          |

**Heath Newark Licking County Port Authority**  
**BUILDING RENOVATION**  
1401 Mount Vernon Road  
Newark, Ohio 43055

|                 |                       |      |            |
|-----------------|-----------------------|------|------------|
| DESIGN          | MECI                  | DATE | 23/03/1-B  |
| CHECKED BY      | MECI                  | DATE | 06/06/2023 |
| PROJECT MANAGER | JUN                   | DATE |            |
| SHEET TITLE     | FLOOR PLAN - PLUMBING |      |            |
| SHEET NO.       | P1.01                 |      |            |



- 1 REPLACE EXISTING FIXTURES WITH NEW. REFER TO EQUIPMENT SCHEDULE ON THIS SHEET FOR SUGGESTED REPLACEMENT MODELS.
- 2 EXPOSE EXISTING DOMESTIC WATER SERVICE PIPING BACK TO THE HORIZONTAL FEED. CONNECT NEW PIPING TO EXISTING AND EXTEND TO NEW WATER METER ASSEMBLY.
- 3 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW DOMESTIC WATER METER WITH BACKFLOW PREVENTER IN ACCORDANCE WITH LOCAL JURISDICTION. REFER TO PIPING DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 4 PROVIDE AND INSTALL AN ASSE 1700 APPROVED THERMOSTATIC MIXING VALVE LOCATED BELOW SINK/LAV IN A ACCESSIBLE LOCATION. SET OUTLET TEMPERATURE TO 120°F.
- 5 CONNECT INTO EXISTING SANITARY PIPING AND EXTEND PIPING TO NEW PLUMBING FIXTURES. VERIFY EXACT SIZE, LOCATION, AND DIRECTION OF FLOW PRIOR TO BEGINNING ANY WORK.
- 6 EXTEND VENT PIPING FROM NEW PLUMBING FIXTURES AND TIE INTO EXISTING VENT PIPING SYSTEM. REFER TO STACK DIAGRAM ON THIS SHEET FOR ADDITIONAL INFORMATION.

- WC-1: WALL CLOSET: AM. STD. NO. 233.100 CROWN "C40" (14")  
PRESSURE ASSESTED, VITREOUS CHIN, SAPHIRE EYE, ELONGATED TOILET  
BONDS NO. 521-855 LUSTRA PAPER FROM TOILET SEAT WITH COVER.  
MCGURE NO. 2165 3/8" NGLS SUPPLY PIPE AND STOP OR EQUAL  
(PIPE ROUGH-IN: 4" S/W, 1-1/2" S/W, 1/2" C/W/H)
- LAV-1: LAVATORY: AM. STD. NO. 0355.0101 20" X 18"  
VITREOUS CHIN, WALL MOUNTED LAVATORY WITH 4" C.S. DRAIN  
MCGURE NO. 852A-1177 LUSTRA PAPER FROM TOILET SEAT WITH COVER.  
MCGURE NO. 2165 3/8" NGLS SUPPLIES AND STOPS.  
MCGURE NO. 105-4 OR EQUAL 1/2" C/W/H
- S-1: SINK: ELKAY NO. LR40-1722-65 "LISTERSTONE" 17"X22-65"  
STAINLESS STEEL, COUNTERTOP SINK WITH 8" STAINLESS STEEL  
NO. 201-400000 LUSTRA PAPER FROM TOILET SEAT WITH COVER.  
MCGURE NO. 2165 3/8" NGLS SUPPLIES AND STOPS.  
MCGURE NO. 1K-35 OR EQUAL 1/2" C/W/H  
MCGURE NO. 8912 1/4" C-CLASS BRASS "P" TRAP  
(PIPE ROUGH-IN: 1-1/2" S/W, 1-1/2" S/W, 1/2" C/W/H)
- SS-1: SERVICE SINK: FAY NO. MSB-244 MOLDED STONE SERVICE SINK.  
MCGURE NO. 540-100 LUSTRA PAPER FROM TOILET SEAT WITH COVER.  
(PIPE ROUGH-IN: 3" S/W, 1-1/2" S/W, 3/4" C/W/H)
- EW-1: ELECTRIC WATER COOLER: OASIS NO. E220 ZLWISSK  
A.D.A. COMPLIANT ELECTRIC WATER COOLER  
MCGURE NO. 2165 3/8" NGLS SUPPLIES AND STOPS  
MCGURE NO. 8972 1/4" C-CLASS BRASS "P" TRAP  
MCGURE NO. 8A-BURBER AT 1/2" C/W/H WITH 1/2" C/W/H CARRIER.  
(PIPE ROUGH-IN: 1-1/2" S/W, 1-1/2" S/W, 1/2" C/W/H)
- WI-1: WALL HANDRAIL: WOODCOFF #65.
- FD-1: FLOOR DRAIN: ZURN EN-508 "HEAVY DUTY" DURA-COATED CAST IRON  
FLOOR DRAIN WITH KICK-OUT SHOWER.  
PROTECT WITH "SURE SEAL" PUTTY SEAL IN LIEU OF TRAP PRIMER.
- CO-1: FLOOR CLEANOUT: ZURN EN-1402-2 "SUPREMO" DURA-COATED CAST  
IRON CLEANOUT WITH KICK-OUT ACCESS COVER.



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| REV /<br>MARK | REVISION   | BY | DATE       |
|---------------|------------|----|------------|
|               | REVIEW SET |    | 01/30/2023 |
|               | PERMIT SET |    | 06/06/2023 |
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|                                                    |      |              |            |
|----------------------------------------------------|------|--------------|------------|
| DESIGN                                             | MECI | CUSTOMER NO. | 2309-B     |
| CHECKED BY:                                        | MECI | MAKE DATE    | 06/06/2023 |
| PROJECT MANAGER                                    | JUN  | BID DATE     |            |
| SHEET TITLE                                        |      |              |            |
| <div> <div>SHEET NO.</div> <div>P1.02</div> </div> |      |              |            |
| DETAILS - PLUMBING                                 |      |              |            |



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|            | NO./<br>PAGE | REVISION | BY | DATE       |
|------------|--------------|----------|----|------------|
| REVIEW SET |              |          |    | 07/30/2023 |
| PERMIT SET |              |          |    | 06/06/2023 |
|            |              |          |    |            |
|            |              |          |    |            |



- 1 FULLSIZE DUCT DROPS DOWN FROM UNIT ON ROOF.
- 2 ELBOW 22"x30" RETURN AIR DUCT ABOVE BUILDING STRUCTURE EXTEND TO ROOF. RECONNECT TO INSTALL RETURN GRILLES IN SIDE OF DUCTWORK.
- 3 ELBOW 22"x30" RETURN AIR DUCT ONCE BELOW BUILDING STRUCTURE EXTEND DUCTWORK AS REQUIRED TO INSTALL RETURN GRILLES IN SIDE OF DUCTWORK.
- 4 SMOKE DETECTOR FURNISHED AND WIRED BY EG. BUT INSTALLED IN DUCT BY MECHANICAL CONTRACTOR. SMOKE DETECTOR TO BE IONIZATION TYPE. INSTALL IN RETURN AIR DUCT.
- 5 PROVIDE PROGRAMMABLE THERMOSTAT. THERMOSTAT AT 48° F. AND COOLING CONTACT LOGIC. REFER TO EQUIPMENT SCHEDULE ON SHEET H1-02 FOR SIZE/CAPACITY AND OTHER ADDITIONAL INFORMATION. ALSO SEE THE ROOF PLAN FOR CONDENSING UNIT LOCATION. ROUTE CONDENSATE TO MOP SINK AND TIE INTO PROPER AIR CAP. ROUTE UNSET FROM COOLING COIL UP THROUGH ROOF TO CONDENSING UNIT. SEAL PENETRATION WATER TIGHT.
- 6 REPLACE EXISTING TOILET EXHAUST FAN IN EXISTING RESTROOM WITH A COOK HOOD 20"x22", 75 C.F.M., @ 0.25" STATIC PRESSURE. REMOVE EXISTING DUCTWORK.
- 7 EXISTING RESTROOM SUPPLY AIR DUCT TO DUCTWORK TO REMAIN AS IS.
- 8 CONTRACTOR SHALL PROVIDE MEANS OF SUPPORT FOR EXISTING AIR DUCT PRIOR TO THE DEMOLITION OF THE EXISTING CEILING GRID. PROVIDE ALTERNATE BID TO REPLACE EXISTING DUCTWORK WITH NEW ROUND AIR DEVICES. MAINTAIN BALANCE AIRFLOW.
- 9 RELOCATE EXISTING RETURN AIR GRILLE INTO EXISTING RETURN AIR DUCT DROP FROM ROOFTOP UNIT. SEAL AIR TIGHT.
- 10 CONTRACTOR SHALL REPLACE (2) EXISTING SUPPLY AIR DEVICES WITH (3) NEW AIR DEVICES EQUALLY SPACED. DISTRIBUTE EXISTING AIRFLOW EQUALLY AMONG THE NEW AIR DEVICES.
- 11 CONNECT TO EXISTING BRANCH DUCT AND EXTEND NEW DUCTWORK OF EQUAL SIZE AS REQUIRED TO REACH NEW AIR DEVICE LOCATION.
- 12 UNDERFOOT DOOR OR PROVIDE NEW 10"x6" TRANSFER AIR GRILLE CENTERED ABOVE DOOR.
- 13 CONTRACTOR SHALL PROVIDE AND INSTALL A NEW HIGH EFFICIENCY GAS FIRED FURNACE COOLING COIL. REFER TO EQUIPMENT SCHEDULE ON SHEET H1-02 FOR SIZE/CAPACITY AND OTHER ADDITIONAL INFORMATION. ALSO SEE THE ROOF PLAN FOR CONDENSING UNIT LOCATION. ROUTE CONDENSATE TO MOP SINK AND TIE INTO PROPER AIR CAP. ROUTE UNSET FROM COOLING COIL UP THROUGH ROOF TO CONDENSING UNIT. SEAL PENETRATION WATER TIGHT.
- 14 FRESH AIR INTAKE CAP. COORDINATE EXACT LOCATION OF PENETRATION TO BE 10' AWAY FROM ANY EXHAUST OR DISCHARGE AIR. EXTEND 6" PNEUMATIC FROM CAP AND TIE INTO RETURN AIR DUCTWORK AT UNIT.
- 15 INSTALL A SUPPLY AIR GRILLE WITH DAMPER IN SUPPLY AIR RISER.

- A. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND PRIME CONTRACTOR.
- B. ALL DUCT CUTS ARE INSIDE DIMENSIONS.
- C. DUCT LAYOUTS ARE SCHEMATIC. FIELD COORDINATE ALL DUCT RUNS (PRIOR TO INSTALLATION). EXTRA WORK WILL NOT BE AWARDED FOR DUCT REVISIONS CAUSED BY LACK OF COORDINATION.
- D. PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE CODES, RULES, AND REGULATIONS OF LOCAL, STATE AND FEDERAL AUTHORITIES OF JURISDICTION.
- E. COORDINATE ALL EQUIPMENT AND DUCT RUNS WITH STRUCTURE, LIFELINES, CEILING, CONDUITS AND OTHER EQUIPMENT.
- F. COORDINATE EXACT LOCATION OF ALL AIR CONCEALS WITH LIGHTING PLAN.
- G. ALL DUCTWORK AND PIPING SHALL BE DEVELOPED UNLESS NOT OTHERWISE PROVIDED BY DUCT COLLAR AT ALL PENETRATIONS OF FINISHED SURFACES.
- H. SUPPLY AND RETURN AIR PLENUMS AND TRUNKS SHALL BE 1" THICK INSULATED RIGID METAL. BRANCH DUCTWORK SHALL BE INSULATED FLEXIBLE DUCTWORK. SHEET METAL. BRANCH DUCTWORK SHALL RUN PARALLEL TO AND BETWEEN TRUSSES. TYPICALLY, TRUCK DUCTS SHALL RUN PARALLEL TO AND BETWEEN TRUSSES, AND THE TOP EXHAUST CAPS SHALL RUN THRU SCREEN.
- I. FIELD COORDINATE EXACT LOCATION OF TRUSSES AND ROTATE TRUNK DUCTS ACCORDING TO TRUSS ORIENTATION.
- J. VERIFY EXACT LOCATION OF HEAT PUMP UNIT PRIOR TO INSTALLATION. PROVIDE LONG LENGTH REFRIGERANT LINE SETS AS REQUIRED.
- K. TOILET EXHAUST AND OTHER MISCELLANEOUS WALL CAPS SHALL BE OF THE SAME STYLE AND APPEARANCE, AND SHALL BE PAINTABLE OR OF A COLOR TO MATCH THE ARCHITECTURE. ALL EXHAUST CAPS SHALL BE COORDINATED WITH THE ARCHITECT. ALL WALL CAPS SHALL HAVE GRAVITY BACKDRIFT DAMPERS, AND THE TOP EXHAUST CAPS SHALL RUN THRU SCREEN.
- L. PENETRATIONS OF FLOOR-CEILING ASSEMBLIES AND WALL ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING MUST MAINTAIN THE INTEGRITY OF THE FIRE-RESISTANT RATED ASSEMBLY. ALL PENETRATIONS OF FLOOR-CEILING AND SMOKE, FIRE/SMOKE STOPPING MATERIAL SHALL BE U.L. APPROVED AND SHALL BE RATED FOR THE TYPE OF FIRE-RESISTANT RATED ASSEMBLY AND THE PENETRATING TYPE OF PENETRATION.

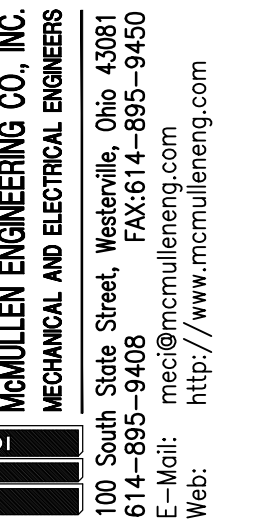
NOTE:  
THE GENERAL TRADES CONTRACTOR SHALL BE RESPONSIBLE TO  
PREPARE EXISTING HVAC SYSTEM "FOR EXPOSURE" AFTER CEILING  
TILE SYSTEM HAS BEEN REMOVED. THIS INCLUDES ANY WORK TO  
INSULATION, DUCTWORK, HANGERS/SUPPORTS AND OR CONDUITS  
AND CABLING.

|        |                                                                                                            |
|--------|------------------------------------------------------------------------------------------------------------|
|        | RECTANGULAR OR ROUND DUCTWORK ABOVE TRUSS LEVEL (THRU OR BETWEEN TRUSSES). INSIDE DIMENSION NOTED ON PLAN. |
|        | RECTANGULAR OR ROUND DUCTWORK BELOW TRUSS LEVEL. INSIDE DIMENSION NOTED ON PLAN.                           |
|        | EXISTING DUCTWORK OR EQUIPMENT ITEM TO BE DEMOLISHED OR REUSED IN ANOTHER LOCATION.                        |
|        | ITEM TO BE RELOCATED TO THIS POSITION.                                                                     |
|        | ELBOW WITH TURNING VANES                                                                                   |
|        | TRANSITION                                                                                                 |
|        | MANUAL BALANCING DAMPER                                                                                    |
|        | SPIN-IN-FITTING WITH AIR SCOOP AND VOLUME DAMPER                                                           |
|        | DUCT RISE                                                                                                  |
|        | ELBOW, TURNED UP                                                                                           |
|        | ELBOW, TURNED DOWN                                                                                         |
|        | SUPPLY AIR                                                                                                 |
|        | RETURN AIR                                                                                                 |
|        | EXHAUST AIR                                                                                                |
|        | DIAMETER (ROUND)                                                                                           |
|        | SENSOR                                                                                                     |
|        | THERMOSTAT                                                                                                 |
|        | AIR DEVICE SYMBOL WITH CFM                                                                                 |
|        | CODED NOTE SYMBOL                                                                                          |
|        | EQUIPMENT NOTE SYMBOL; SEE SCHEDULES AND/OR NOTES.                                                         |
| A.F.F. | ABOVE FINISHED FLOOR                                                                                       |
| AB.    | ABOVE                                                                                                      |
| CLG.   | CEILING                                                                                                    |
| FLR.   | FLOOR                                                                                                      |
| G.C.   | GENERAL CONTRACTOR                                                                                         |
| P.C.   | PLUMBING CONTRACTOR                                                                                        |
| H.C.   | HVAC CONTRACTOR                                                                                            |
| E.C.   | ELECTRICAL CONTRACTOR                                                                                      |
| S.A.   | SUPPLY AIR                                                                                                 |
| R.A.   | RETURN AIR                                                                                                 |
| O.A.   | OUTSIDE AIR                                                                                                |
| EXH.   | EXHAUST                                                                                                    |
| EX.    | EXISTING                                                                                                   |
| MT.    | MOUNT, (MTD.), MOUNTED, (MTG.), MOUNTING.                                                                  |

**Heath Newark Licking County Port Authority  
BUILDING RENOVATION  
1401 Mount Vernon Road  
Newark, Ohio 43055**

|                  |            |
|------------------|------------|
| SHEET NO.        | H1.01      |
| CHECKED BY:      | MECI       |
| PROJECT MANAGER: | JUN        |
| DRAWN DATE:      | 06/06/2013 |
| DATE OF PLOTING: | 23/09/13   |

**FLOOR PLAN - HVAC**

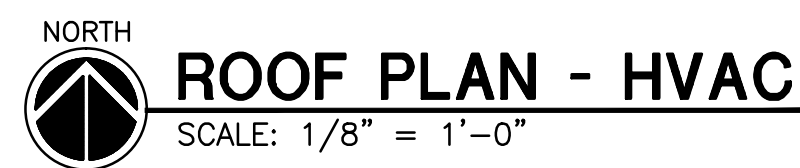
[illegible]

Heath Newark Licking County Port Authority  
BUILDING RENOVATION  
1401 Mount Vernon Road  
Newark, Ohio 43055

|                 |      |            |            |
|-----------------|------|------------|------------|
| DESIGNER        | MECI | DATE       | 06/06/2013 |
| CHECKED BY      | MECI | ISSUE DATE | 06/06/2013 |
| PROJECT MANAGER | JUN  | REV DATE   |            |
| SHEET TITLE     |      |            |            |
| SHEET NO.       |      |            |            |

# H1.02

## ROOF PLAN - HVAC



| GAS FIRED ROOFTOP EQUIPMENT SCHEDULE |                |              |      |                   |                        |          |                        |        |                 |            |             |            |        |      |              |      |          |     |                |             |
|--------------------------------------|----------------|--------------|------|-------------------|------------------------|----------|------------------------|--------|-----------------|------------|-------------|------------|--------|------|--------------|------|----------|-----|----------------|-------------|
| SYMBOL                               | LENNOX MODEL # | NOMINAL TONS | CFM  | APPROX. EXT. S.P. | COOLING CAPACITY (MBH) |          | HEATING CAPACITY (MBH) |        | REDS GAS PRESS. | DRIVE TYPE | BLOWER H.P. | ELECTRICAL | M.C.A. | MOOP | EFFICIENCIES |      |          |     | APPROX. WEIGHT | NOTES       |
|                                      |                |              |      |                   | TOTAL                  | SENSIBLE | INPUT                  | OUTPUT |                 |            |             |            |        |      | SEER         | EER  | EER AFUE |     |                |             |
| (RTU-1)                              | LCG07252B      | 6.0          | 2400 | 0.8"              | 60.5                   | 51.0     | 130                    | 104    | 11"             | DIRECT     | 1.5         | 208/3      | 39     | 50   | -            | 9.0  | -        | 81% | 945 LB.        | 1,2,3,4,5,6 |
| (RTU-2)                              | LCG09052B      | 7.5          | 3000 | 0.8"              | 76.2                   | 61.0     | 130                    | 104    | 11"             | DIRECT     | 3           | 208/3      | 47     | 60   | -            | 10.0 | -        | 81% | 1280 LB.       | 1,2,3,4,5,6 |

1.) FURNISH 24" ROOF CURB FOR INSTALLATION BY G.C.

2.) TWO SETS OF FILTERS

3.) FURNISH WITH LOW AMBIENT CONTROLS

4.) PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT.

5.) PROVIDE FACTORY INSTALLED NON-POWERED CONVENIENCE OUTLET.

6.) PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.

COOLING CAPACITIES BASED ON 90db/73wb OUTDOOR AIR, 95db/73wb RETURN AIR. HEATING CAPACITIES BASED ON -3 db OUTDOOR AIR, 70db RETURN AIR, 100db DISCHARGE AIR.

| SPLIT SYSTEM GAS/ELECTRIC AIR-CONDITIONING UNIT SCHEDULE                         |                      |     |                   |              |                |        |            |      |                   |              |          |        |                   |                |          |            |       |       |      |       |     |               |                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------|----------------------|-----|-------------------|--------------|----------------|--------|------------|------|-------------------|--------------|----------|--------|-------------------|----------------|----------|------------|-------|-------|------|-------|-----|---------------|-----------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| FURNACE                                                                          |                      |     |                   |              |                |        |            |      |                   | COOLING COIL |          |        | CONDENSING UNIT   |                |          |            |       |       |      | NOTES |     |               |                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SYMBOL                                                                           | BRYANT<br>MODEL #    | CFM | E.S.P.<br>IN/COIL | BLOWER<br>HP | HEAT. CAP. MBH |        | ELECTRICAL |      | BRYANT<br>MODEL # | S.P.         | TYPE     | SYMBOL | BRYANT<br>MODEL # | COOL. CAP. MBH |          | ELECTRICAL |       | SEER  |      |       |     |               |                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                  |                      |     |                   |              | INPUT          | OUTPUT | AFUE       | V/Ø  |                   |              |          |        |                   | FLA            | MCP      | TOTAL      | SENS. |       | V/Ø  |       | MCA | REC.BKFR.     |                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FUR-                                                                             | 912SC30040<br>UPFLOW | 600 | 0.75"             | 1/3          | 40.0           | 37.0   | 92.1       | 20/1 | 7.5               | 15           | CNVP1814 | 0.18"  | UP<br>FLOW        | CU-1           | 113NA018 | 18.4       | 12.8  | 208/1 | 11.8 | 20    | 13  | 1,2,3,4,5,6,7 |                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1) FURNISH & INSTALL FACTORY RECOMMENDED EXPANSION VALVE.                        |                      |     |                   |              |                |        |            |      |                   |              |          |        |                   |                |          |            |       |       |      |       |     |               | 4) MOUNT INDOOR UNIT ON VIBRATION PAD.                                                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2) FURNISH WITH AIR FILTER AND RACK KIT, AND TWO SETS OF 2" FILTERS.             |                      |     |                   |              |                |        |            |      |                   |              |          |        |                   |                |          |            |       |       |      |       |     |               | 5) FURNISH UNIT WITH TIE-OFF CONTROL.                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3) FURNISH & INSTALL PVC COMBUSTION PIPING, AND CONCENTRIC ROOF TERMINATION KIT. |                      |     |                   |              |                |        |            |      |                   |              |          |        |                   |                |          |            |       |       |      |       |     |               | 6) PROGRAMMABLE 7-DAY NIGHT-SETBACK THERMOSTAT                                                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                  |                      |     |                   |              |                |        |            |      |                   |              |          |        |                   |                |          |            |       |       |      |       |     |               | 7) FURNISH & INSTALL PRE-MANUFACTURED AND INSULATED REFRIGERANT LINE SET. (SIZE PER MANUFACTURER REQUIREMENTS). |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

### AIR DEVICE SCHEDULE

| SYMBOL | FACE SIZE | MIN. DUCT SIZE | TITUS MODEL NO. | CFM RANGE | MOUNTING SURFACE | AIR PATTERN       | NOTES |
|--------|-----------|----------------|-----------------|-----------|------------------|-------------------|-------|
| A      | 20"x10"   | 18"x8"         | 300FL           | 375-400   | DUCT MTD         | DOUBLE DEFLECTION | 1,5,7 |
| B1     | 26"x18"   | 24"x16"        | 350R            | 1200      | DUCT MTD         | RETURN            | 1,4   |
| B2     | 32"x18"   | 30"x16"        | 350R            | 1500      | DUCT MTD         | RETURN            | 1,4   |
| C      | 24"x24"   | 6"             | TMS             | 60        | LAY-IN CLG       | 4-WAY             | 1,5,7 |
| D      | 24"x24"   | 8"             | TMS             | 120-200   | LAY-IN CLG       | 4-WAY             | 1,5,7 |
| E      | 24"x24"   | 8"             | 355RL           | 100       | DUCT MTD         | DOUBLE DEFLECTION | 1,5,7 |
| F      | 24"x12"   | 8"             | 355RL           | 180       | LAY-IN CLG       | RETURN            | 1,4   |
| G      | 24"x12"   | 10"            | 355RL           | 380       | LAY-IN CLG       | RETURN            | 1,4   |

1) FINISH TO BE SELECTED BY ARCHITECT.

2) FURNISH WITH NECK MOUNTED ADJUSTABLE DAMPER.

3) SUPPORT DEVICE INDEPENDENT OF DROF CEILING CLAMPING.

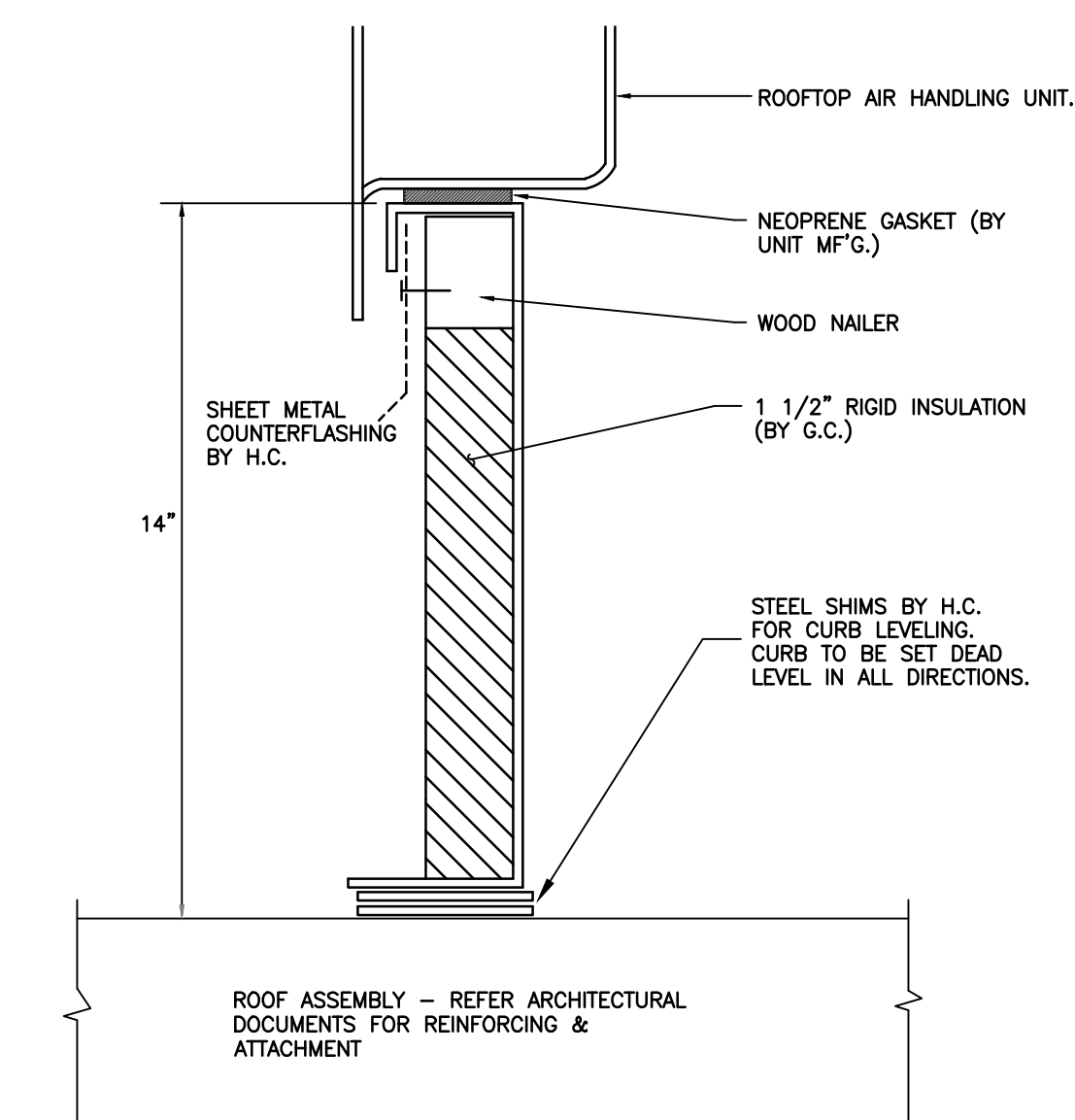
4) FRAME TO BE COMPATIBLE WITH PLASTER, DRYWALL, OR OTHER SURFACE MOUNTINGS. (eg. DUCTWORK)

5) MOUNTED DIRECTLY TO SPIRAL DUCT.

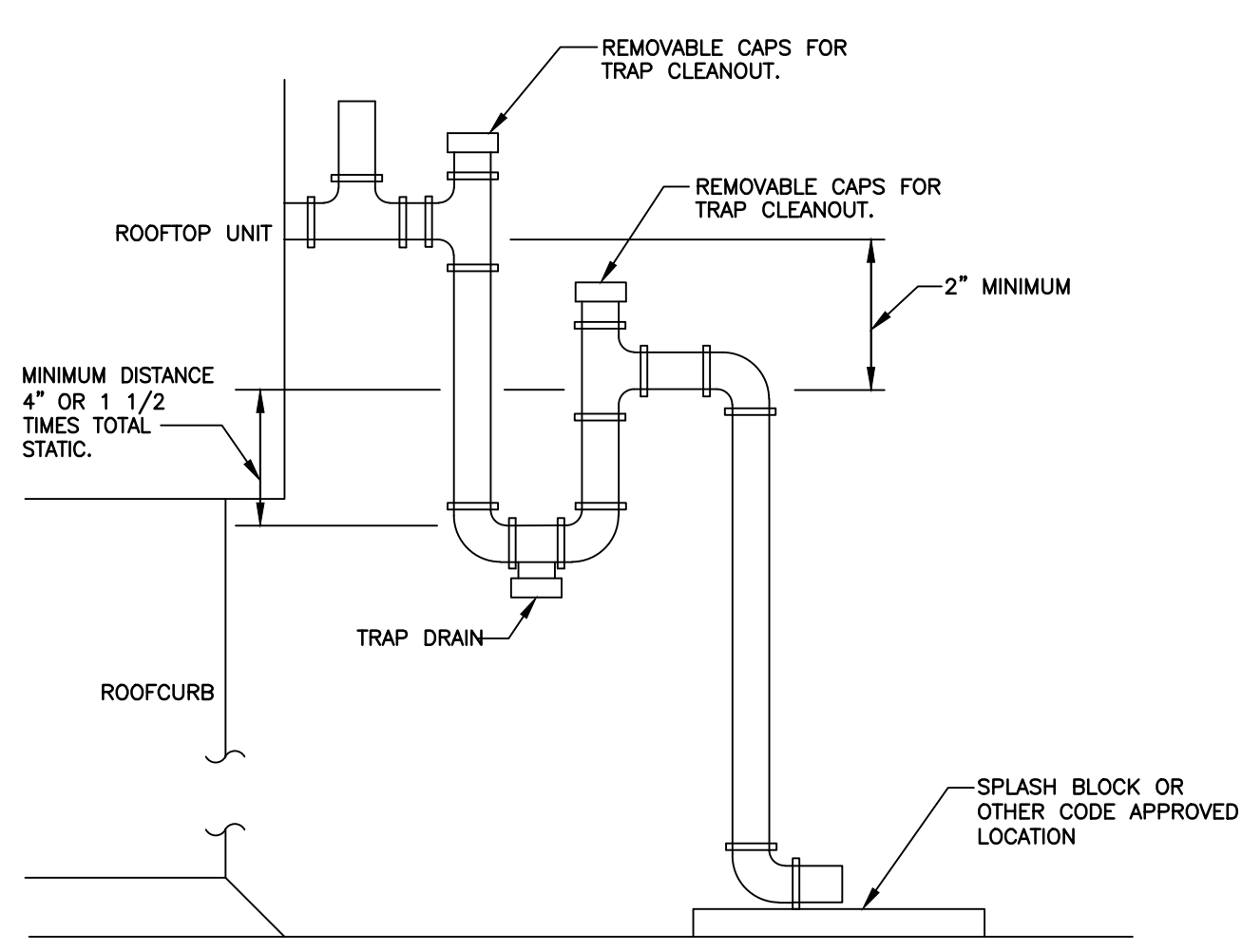
6) FRAME TO BE COMPATIBLE WITH STD. T-BAR CEILING.

7) FURNISH WITH ADJUSTABLE SCOOP OR EXTRACTOR

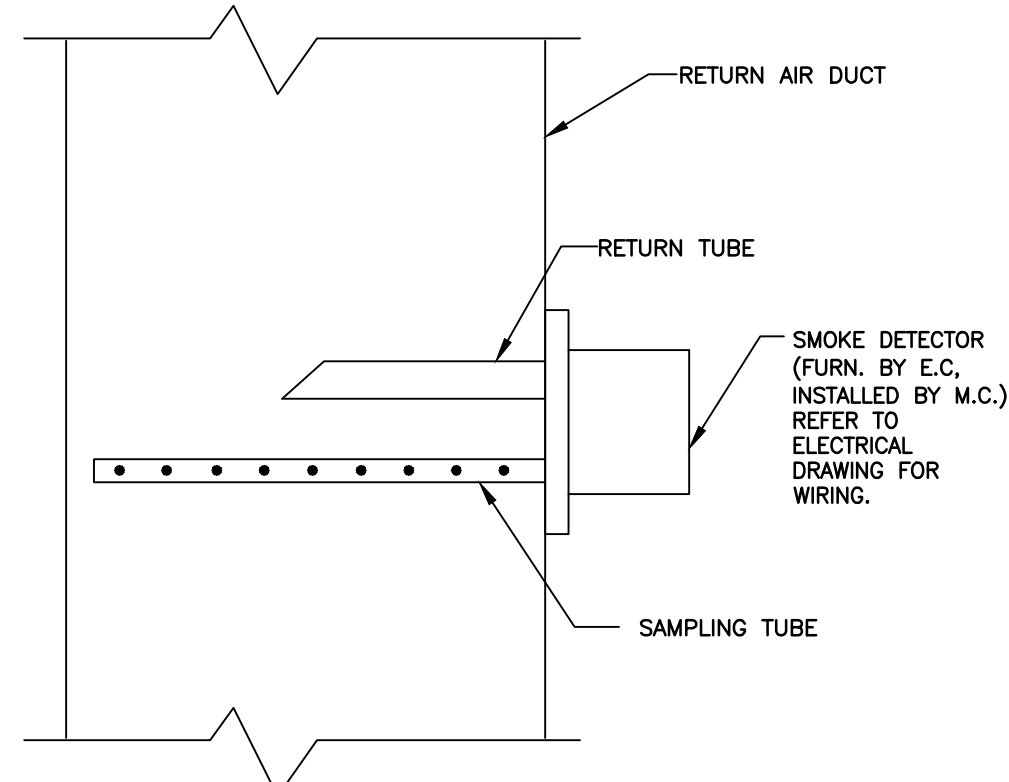
| OUTSIDE AIR REQUIREMENTS                                |                                  |                     |                           |                         |                              |                           |                               | AIR SYSTEMS             |                  |                          |
|---------------------------------------------------------|----------------------------------|---------------------|---------------------------|-------------------------|------------------------------|---------------------------|-------------------------------|-------------------------|------------------|--------------------------|
| SPACE DESCRIPTION                                       | SPACE VENTILATION CLASSIFICATION | FLOOR AREA (SQ.FT.) | OCCUPANCY (PEOPLE/SQ.FT.) | OCCUPANCY NO. OF PEOPLE | OUTSIDE AIR VENTILATION RATE |                           | OUTSIDE AIR VENTILATION (CFM) | SYSTEM PLAN DESIGNATION | SUPPLY AIR (CFM) | OUTSIDE AIR INTAKE (CFM) |
|                                                         |                                  |                     |                           |                         | BY AREA (CFM/SQ.FT.)         | BY OCCUPANCY (CFM/PERSON) |                               |                         |                  |                          |
| OFFICE                                                  | OFFICE                           | 160                 | 5                         | 2                       | 0.06                         | 10                        | 20                            | FUR-1                   | 600              | 70                       |
| BREAKROOM                                               | BREAKROOM                        | 95                  | 5                         | 3                       | 0.06                         | 15                        | 21                            |                         |                  |                          |
| COORDINATOR                                             | COORDINATOR                      | 100                 | ---                       | ---                     | 0.06                         | ---                       | 6                             |                         |                  |                          |
| MECH ROOM                                               | MECH ROOM                        | 80                  | ---                       | ---                     | 0.06                         | ---                       | 5                             |                         |                  |                          |
| TOTAL                                                   |                                  |                     |                           |                         |                              |                           | 52/0.8 = 65                   |                         |                  |                          |
|                                                         |                                  |                     |                           |                         |                              |                           |                               |                         |                  |                          |
| BAY 1                                                   | WAREHOUSE                        | 2250                | ---                       | ---                     | 0.06                         | ---                       | 135                           | RTU-1<br>RTU-2          | 2400<br>4000     | 200<br>200               |
| BAY 1                                                   | WAREHOUSE                        | 3060                | ---                       | ---                     | 0.06                         | ---                       | 184                           |                         |                  |                          |
|                                                         |                                  |                     |                           |                         |                              |                           |                               |                         |                  |                          |
|                                                         |                                  |                     |                           |                         |                              |                           |                               |                         |                  |                          |
| TOTAL                                                   |                                  |                     |                           |                         |                              |                           | 319/0.8 = 399                 |                         |                  |                          |
| (1) EFFECTIVENESS BREATHING RATE, FACTOR OF 0.8 APPLIED |                                  |                     |                           |                         |                              |                           |                               | (1)                     |                  |                          |



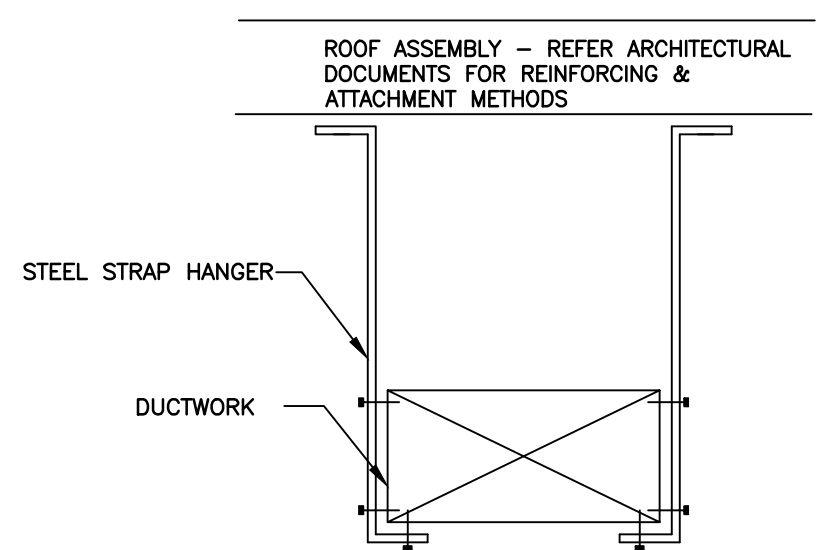
|       |                           |
|-------|---------------------------|
| 1     | ROOF CURB MOUNTING DETAIL |
| H1.02 | NTS                       |



|       |                          |
|-------|--------------------------|
| 2     | CONDENSATE PIPING DETAIL |
| H1.02 | NTS                      |



### 3 SMOKE DETECTOR DETAIL

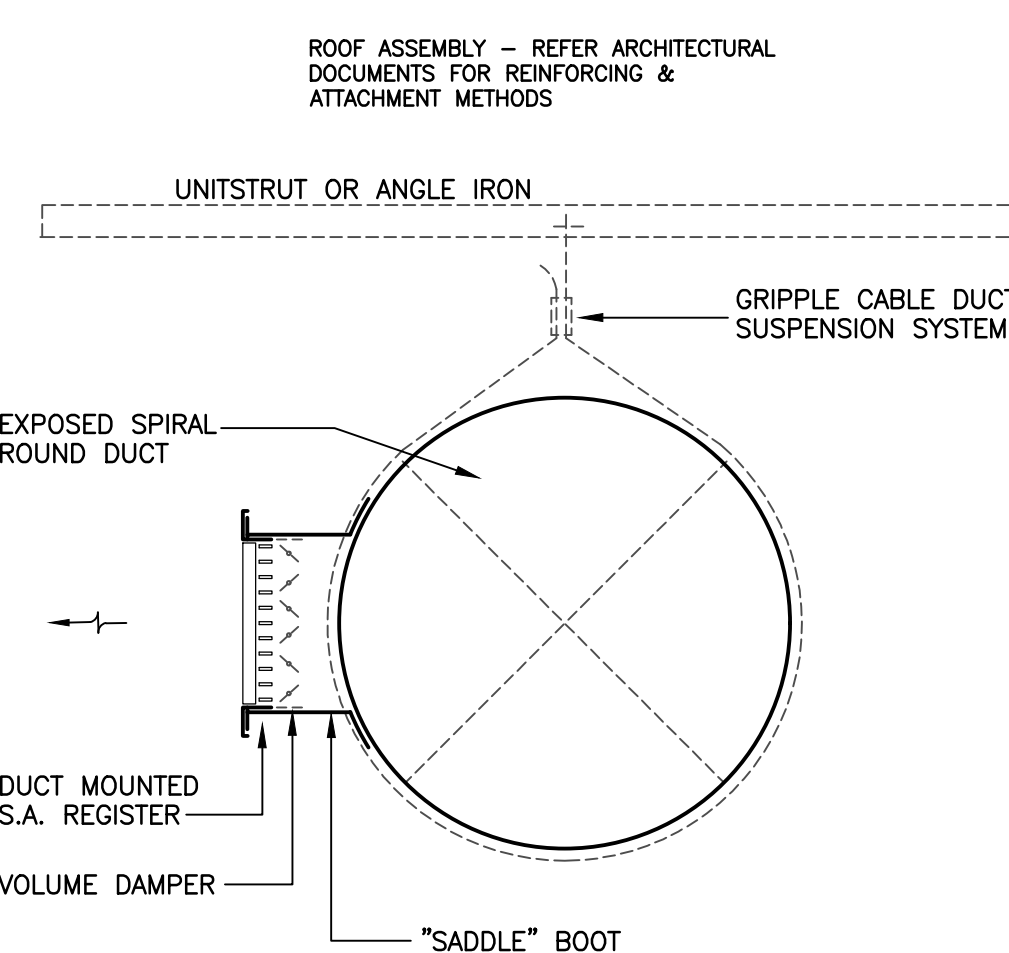


### HANGER SPACING

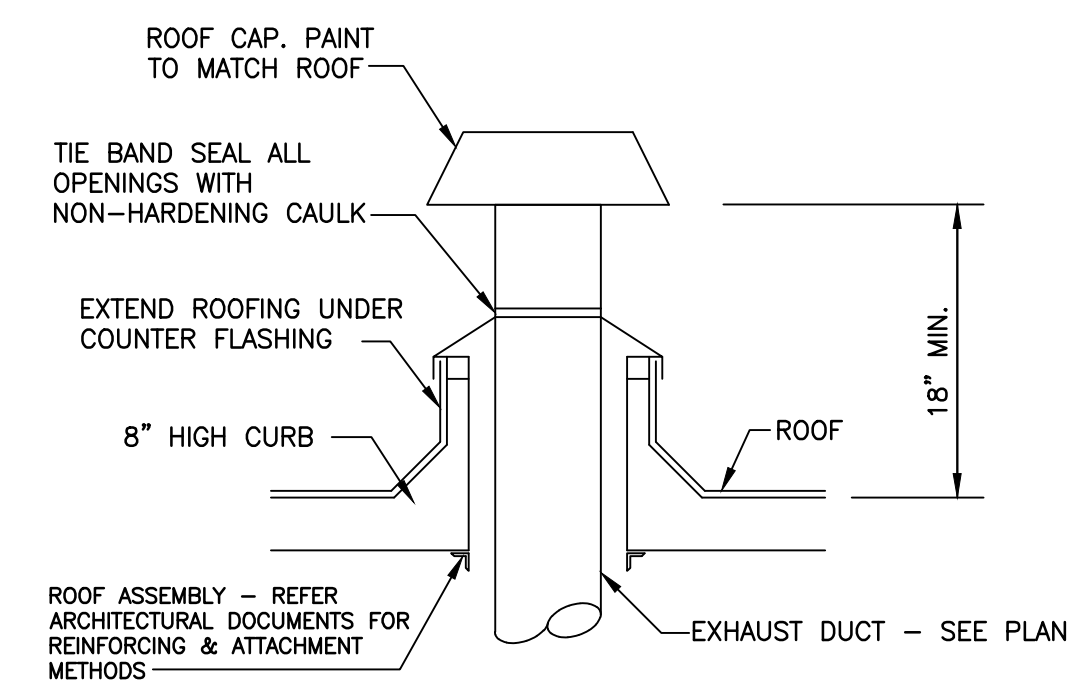
DUCT FACE AREA FROM 0 TO 4 SQ. FT. HANGERS 98" O.C. MAX DUCT  
FACE AREA FROM 4 TO 10 SQ. FT. HANGERS 72" O.C. MAX DUCT  
FACE AREA FROM 10 AND GREATER HANGERS 48" O.C. MAX  
WHERE DUCTS ARE LESS THAN 2 SQ. FT. IN FACE AREA, HANGERS  
SHALL BE NOT LESS THAN 1"x1/16" STRAP STEEL.  
WHERE DUCT ARE GREATER THAN 2 SQ. FT. IN FACE AREA, HANGERS  
SHALL BE NOT LESS THAN 1"x1/8" STRAP STEEL.

WHERE DUCTS ARE OVER 48" WIDE, THE HANGERS SHALL BE BROUGHT DOWN UNDER THE DUCT SIDES 4" AND FASTENED TO THE BOTTOM.

## 4 DUCT HANGERS

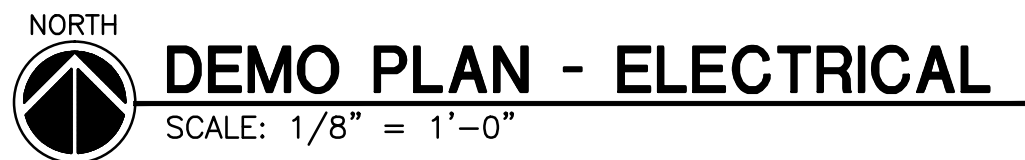
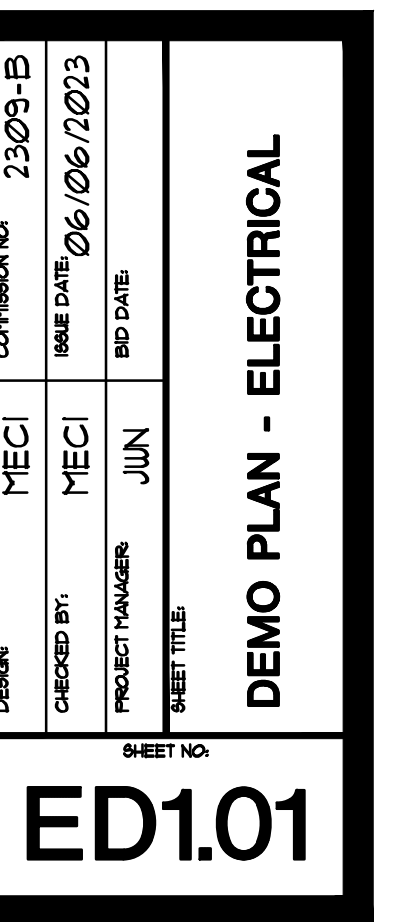
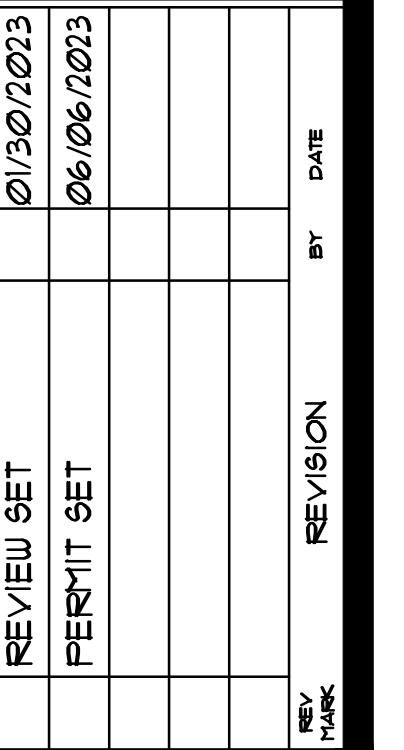


|       |                                          |  |
|-------|------------------------------------------|--|
| 5     | <b>SPIRAL ROUND DUCT/DIFFUSER DETAIL</b> |  |
| H1.02 | N.T.S.                                   |  |



NOTE- MAINTAIN A MINIMUM OF 10'-0" SEPARATION  
BETWEEN ALL EXHAUST AND INTAKE LOCATIONS

|       |                 |
|-------|-----------------|
| 6     | ROOF CAP DETAIL |
| H1.02 | N.T.S.          |



1. REMOVE LIGHTING AND CONTROLS FOR THIS ROOM/AREA. TAG CIRCUIT FOR RE-USE.
2. REMOVE LIGHTING FOR THIS ROOM/AREA. TAG CIRCUIT FOR RE-USE.

1. REMOVE LIGHTING AND CONTROLS FOR THIS ROOM/AREA. TAG CIRCUIT FOR RE-USE.
2. REMOVE LIGHTING FOR THIS ROOM/AREA. TAG CIRCUIT FOR RE-USE.

(APPLICABLE TO THIS SHEET ONLY)

1. DEMO ALL POWER (DEVICES, CONTROLS/WIRING, CONDUIT/CONDUCTORS) FOR UNIT HEATER, THIS AREA. TAG BREAKER(S) AS SPARE IN PANELEBOARD.
2. DEMO ALL POWER (DEVICES, CONTROLS/WIRING, CONDUIT/CONDUCTORS) FOR INTERIOR AND ROOF-MOUNTED EXHAUST FANS AS DENOTED FOR DEMO ON THE MECHANICAL DEMO SHEET. TAG BREAKER(S) AS SPARE IN PANELEBOARD.
3. DEMO ALL POWER (DEVICES, CONTROLS/WIRING, CONDUIT/CONDUCTORS) FOR ROOF-MOUNTED MAKE-UP AIR UNIT AS DENOTED FOR DEMO ON THE MECHANICAL DEMO SHEET. TAG BREAKER(S) AS SPARE IN PANELEBOARD.
4. DEMO ALL POWER (DEVICES, CONTROLS/WIRING, CONDUIT/CONDUCTORS) FOR WALL AREAS BEING DEMO'D. MAINTAIN THRU WIRING WHERE APPLICABLE.

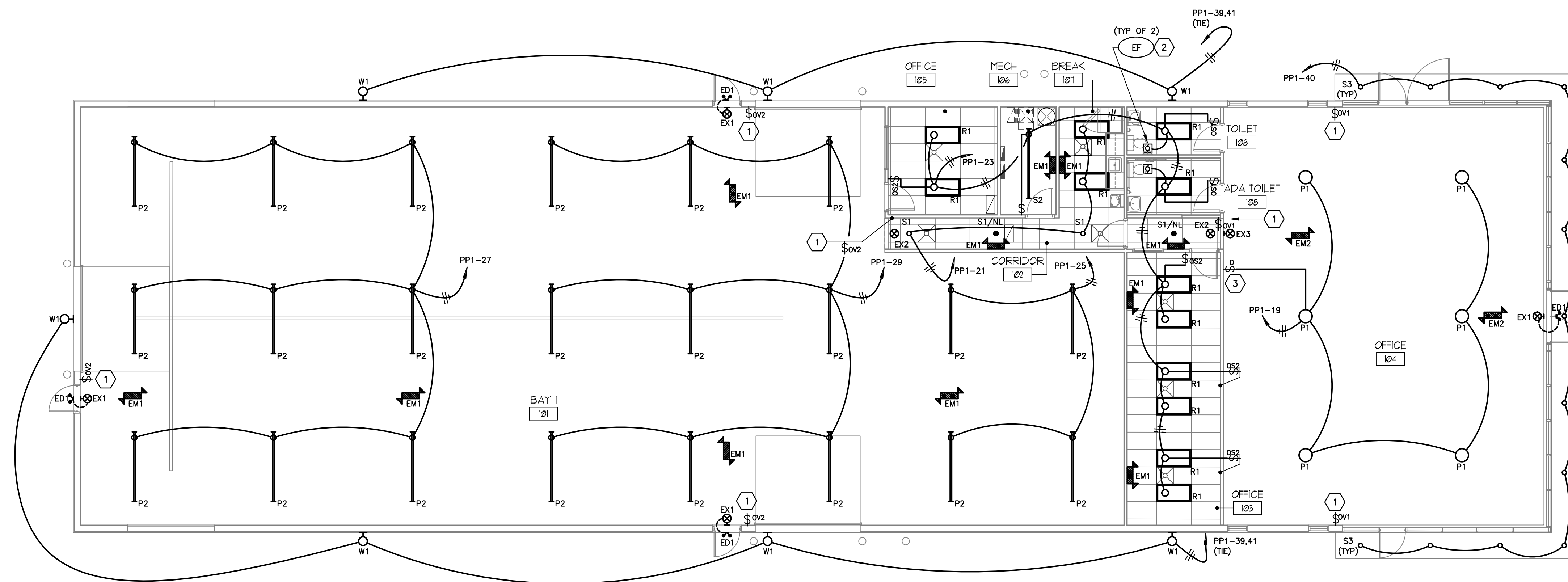
8. DEMO ALL EXISTING EMERGENCY LIGHTING AND EXIT SIGNAGE IN AREAS OF SOURCE.

9. **LIGHTING** – DEMO LIGHTING FIXTURES AND TAG ASSOCIATED CIRCUITS FOR RE-USE. TO SOURCE PANEL BOARD. UNUSED EXISTING CONCEALED CONDUIT IN WALLS MAY BE REMOVED ENTIRELY. UNUSED CONDUIT EXPOSED OR ABOVE ACCESSIBLE CEILINGS FOR DEMO/CIRCUIT SHALL BE REMOVED. ALL UNUSED CONDUCTORS SHALL BE REMOVED ENTIRELY. MAINTAIN CONTINUITY OF CIRCUITRY IN "THIRD WIRING" SITUATIONS. PATCH WALLS FOR FINISH. OTHERWISE REMOVE FROM SITE.

10. **CONTROLS** – DEMO WALL BOXES AND CONDUCTORS TO SOURCE FIXTURE. EXISTING CONCEALED CONDUIT IN WALLS MAY BE REMOVED ENTIRELY. UNUSED CONDUIT EXPOSED OR ABOVE ACCESSIBLE CEILINGS FOR DEMO/CIRCUIT SHALL BE REMOVED. ALL UNUSED CONDUCTORS SHALL BE REMOVED ENTIRELY. MAINTAIN CONTINUITY OF CIRCUITRY IN "THIRD WIRING" SITUATIONS. PATCH WALLS FOR FINISH.

11. **RECEPTALS** – DEMO WALL BOXES, DEVICES AND CONDUCTORS TO SOURCE IF BOX IS TO BE RE-USED. UNUSED CONDUIT EXPOSED OR ABOVE ACCESSIBLE CEILINGS FOR DEMO/CIRCUIT SHALL BE REMOVED. ALL UNUSED CONDUCTORS SHALL BE REMOVED ENTIRELY. MAINTAIN CONTINUITY OF CIRCUITRY IN "THIRD WIRING" SITUATIONS. PATCH WALLS FOR FINISH.

12. **MISC. CONTROLS** – DEMO UNUSUAL CONTROLS, DEVICES AND ASSOCIATED WIRING TO SOURCE. EXISTING CONCEALED CONDUIT IN REMAINING REMAINING WALLS MAY BE REMOVED ENTIRELY. UNUSED CONDUIT EXPOSED OR ABOVE ACCESSIBLE CEILINGS FOR DEMO/CIRCUIT SHALL BE REMOVED. ALL UNUSED CONDUCTORS SHALL BE REMOVED ENTIRELY. MAINTAIN CONTINUITY OF CIRCUITRY IN "THIRD WIRING" SITUATIONS. PATCH WALLS FOR FINISH.



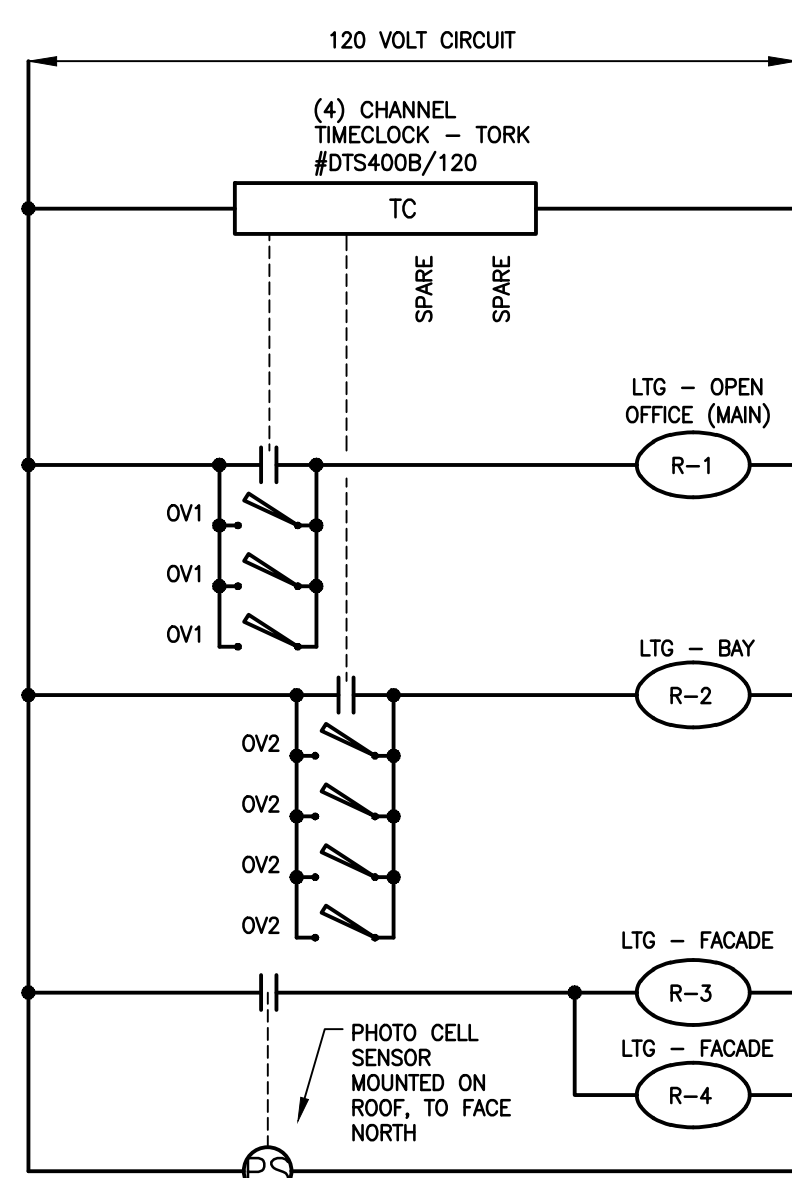
**FLOOR PLAN - LIGHTING**  
SCALE: 1/8" = 1'-0"

NOTE:  
CIRCUIT ALL EXIT SIGNS AND  
EMERGENCY LIGHTING THRU  
LOCAL LIGHTING CIRCUIT, AHEAD  
OF ALL SWITCHING/CONTROL.

**RELAY SCHEDULE**

| RELAY NO. | NO. POLES | AMPS | LOAD VOLTAGE | COIL VOLTAGE | LOAD DESCRIPTION                    | RELAY LOCATION | NOTES |
|-----------|-----------|------|--------------|--------------|-------------------------------------|----------------|-------|
| R-1       | 2         | 20   | 120          | 120          | LTG - OPEN OFFICE (MAIN) & CORRIDOR | PANEL PP1      | 1,3   |
| R-2       | 4         | 20   | 120          | 120          | LTG - BAY                           | PANEL PP1      | 1,3   |
| R-3       | 2         | 20   | 120          | 120          | LTG - FACADE                        | PANEL PP1      | 1,2   |
| R-4       | 2         | 20   | 208          | 120          | LTG - FACADE                        | PANEL PP1      | 1,2   |

- NOTES:
- ELECTRICALLY HELD RELAY EQUAL TO SQUARE "D" CLASS 8903 TYPE "LG"
  - PHOTOCELL CONTROL
  - LIGHTING SHALL BE AUTOMATICALLY SHUT OFF FROM 12 MIDNIGHT OR WITHIN ONE HOUR OF THE END OF BUSINESS OPERATIONS, WHICHEVER IS LATER, UNTIL 5 A.M. OR BUSINESS OPENING, WHICHEVER IS EARLIER.



**INTERIOR/EXTERIOR LIGHTING CONTROL WIRING DIAGRAM**  
E1.01/ NO SCALE

**LIGHTING FIXTURE SCHEDULE**

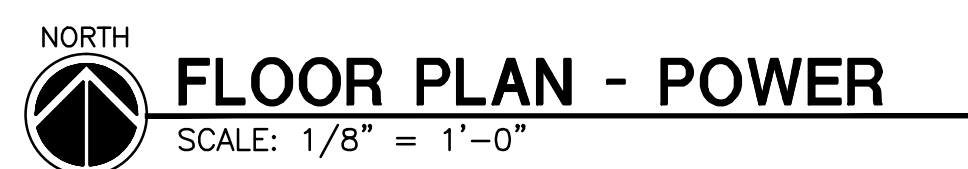
|     |                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ED1 | DUAL-HEAD ADJUSTABLE WALL-MOUNT EGRESS FIXTURE w/ (2) 1.3W/8.6V LED LAMP HEADS, SUITABLE FOR OUTDOOR LOCATION (WET/DAMP) INSTALLATIONS, FINISH PER ARCHITECT/OWNER. BACKBOX SHALL BE INSTALLED FULLY RECESSED.<br>HOLOPHANE #C20RW LP220L * 1                                                                                                                                        |
| EX1 | POLYCARBONATE BACK-MOUNT LED EXIT SIGN w/ WHITE HOUSING, RED LETTERS, LESS LAMP HEADS, SEALED MAINTENANCE FREE HIGH OUTPUT NICKEL CADMIUM BATTERY DELIVERS 90-MINUTES CAPACITY TO REMOTE EMERGENCY LAMPS (1.3W/8.6V), UNIVERSAL MOUNTING, SINGLE FACE WITH EXTRA FACEPLATE AND COLOR PANEL, 120/277V. THE UNIT HAS A TOTAL OF 9.6V, 6W REMOTE CAPACITY.<br>HOLOPHANE #OW LED R HO RO |
| EX2 | POLYCARBONATE TOP-MOUNT LED EXIT SIGN w/ WHITE HOUSING, RED LETTERS, SEALED MAINTENANCE-FREE NICKEL-CADMIUM BATTERY DELIVERS 90-MINUTES CAPACITY TO EMERGENCY LAMPS, UNIVERSAL MOUNTING, SINGLE FACE WITH EXTRA FACEPLATE AND COLOR PANEL, 120/277V.<br>HOLOPHANE #OW LED R                                                                                                          |
| EX3 | POLYCARBONATE BACK-MOUNT LED EXIT SIGN w/ WHITE HOUSING, RED LETTERS, SEALED MAINTENANCE-FREE NICKEL-CADMIUM BATTERY DELIVERS 90-MINUTES CAPACITY TO EMERGENCY LAMPS, UNIVERSAL MOUNTING, SINGLE FACE WITH EXTRA FACEPLATE AND COLOR PANEL, 120/277V.<br>HOLOPHANE #OW LED R                                                                                                         |
| EM1 | UNIVERSAL-MOUNTED EMERGENCY LIGHT w/ (2) ADJUSTABLE 3.3W LED LAMP HEADS, 640 LUMENS TOTAL, SPOT PATTERN, SINGLE UNIT, WHITE HOUSING, WALL OR CEILING MOUNT, SEALED MAINTENANCE-FREE 9.6V NICKEL CADMIUM BATTERY, 120/277V.<br>HOLOPHANE #C204L                                                                                                                                       |
| EM2 | UNIVERSAL-MOUNTED EMERGENCY LIGHT w/ (2) ADJUSTABLE 5.3W LED LAMP HEADS, 1,100 LUMENS TOTAL, SPOT PATTERN, SINGLE UNIT, WHITE HOUSING, WALL OR CEILING MOUNT, SEALED MAINTENANCE-FREE 9.6V LITHIUM IRON PHOSPHATE BATTERY, 120/277V.<br>HOLOPHANE #C206L                                                                                                                             |
| P1  | PENDANT-MOUNTED LED HIGH-BAY FIXTURE w/ WIDE GLASS REFLECTOR AND REFRACTOR, 3500K, 80 CRI, 12,000 LUMENS, WHITE HOUSING, 0-10V DIMMING, 120V, 75 WATTS.<br>HOLOPHANE #PHG 12000LM HEF WGG MVOLT 35K 80CRI                                                                                                                                                                            |
| P2  | 8" LONG CHAIN-MOUNTED LED STRIP FIXTURE w/ FULL FROSTED LENS, 3500K, 80CRI, 14,000 LUMENS, HIGH REFLECTANCE MATTE WHITE ENAMEL FINISH, 0-10V DIMMING ELECTRONIC LED DRIVER, 120V, 104 WATTS.<br>HOLOPHANE #HTZLN L96 14000LM FST MVOLT 35K 90CRI WH                                                                                                                                  |
| R1  | 2'x4' RECESSED-MOUNT LAY-IN LED LIGHT FIXTURE 3900 LUMENS OUTPUT, 3500K, 80 CRI, WHITE OPAL ACRYLIC DIFFUSER LENS, ELECTRONIC DRIVER WITH 0-10V DIMMING (18), WHITE FINISH, 120V, 36 WATTS.<br>HOLOPHANE #HVT 2X4 DOP 3900LM 35K MVOLT MINI 80CRI ZT                                                                                                                                 |
| S1  | SURFACE-MOUNTED 7" LED DOWNLIGHT, 3/4" H, HOUSING, DIFFUSING LENS CONCEALS LEDS, 1,000 LUMENS, 90 CRI, 3,500K, MULTIVOLT DRIVER, 0-10V DIMMING ABILITY, WET LABEL, 120V, 13 WATTS. * = TRIM RING FINISH (TO BE SELECTED BY ARCHITECT)<br>JUNO #JSF 7IN 10LM 35K 90CRI MVOLT ZT *                                                                                                     |
| S2  | 8" LONG SURFACE-MOUNTED LED STRIP FIXTURE w/ FULL FROSTED LENS FOR WIDE DISTRIBUTION, 3500K, 80CRI, 5,000 LUMENS, HIGH REFLECTANCE MATTE WHITE ENAMEL FINISH, 0-10V DIMMING ELECTRONIC LED DRIVER, 120V, 41 WATTS.<br>HOLOPHANE #HZLTD L96 5000LM FST MVOLT 35K 80CRI WH                                                                                                             |
| S3  | SURFACE-MOUNTED 7" LED DOWNLIGHT, 3/4" H, HOUSING, DIFFUSING LENS CONCEALS LEDS, 1,000 LUMENS, 90 CRI, 3,500K, MULTIVOLT DRIVER, 0-10V DIMMING ABILITY, WET LABEL, 120V, 13 WATTS. * = TRIM RING FINISH (TO BE SELECTED BY ARCHITECT)<br>JUNO #JSF 7IN 10LM 35K 90CRI MVOLT ZT *                                                                                                     |
| W1  | WALL-MOUNTED LED WET-LABELLED, FULL-CUTOFF WALL-PACK w/ ACRYLIC OPTICAL SYSTEM, TYPE II MEDIUM DISTRIBUTION, 4000K, 70CRI, 7,800 LUMENS, BLACK FINISH, ELECTRONIC LED DRIVER, 208V, 71 WATTS.<br>HOLOPHANE #HLWPC2 P30 40K 208 12W BKSP                                                                                                                                              |

**LIGHTING CODED NOTES**  
(APPLICABLE TO THIS SHEET ONLY)

- AFTER-HOURS OVER-RIDE SWITCH FOR LOCAL LIGHTING. REFER TO CONTROL DIAGRAM(S).
- EXHAUST FAN WITH INTEGRAL DISCONNECT, BY H.C. CIRCUIT AS DENOTED.

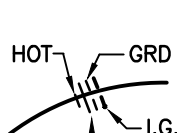
**LIGHTING CONTROLS**

- OS1: LINE-VOLTAGE, WALL-MOUNTED PIR/MICROPHONIC SENSOR, ON/OFF PUSH BUTTON, PROGRAMMED AS AUTO-ON AND 10 MIN., TIME TO OFF, COLOR PER OWNER/ARCHITECT (\*).  
SENSOR SWITCH #WSX-POT-\*
- OS2: LINE-VOLTAGE, WALL-MOUNTED PIR/MICROPHONIC SENSOR, ON/OFF PUSH BUTTON, RAISE & LOWER DIMMING BUTTONS, 0-10V DIMMING CONTROL, AUTOMATIC START LEVEL OF 50%, UNIT TO BE PROGRAMMED AS AUTO-ON AND TO MIN., TIME TO OFF, COLOR PER OWNER/ARCHITECT (\*).  
SENSOR SWITCH #WSX-POT-D-\*
- OW: LINE-VOLTAGE WALLBOX TIMED OVERRIDE SWITCH. UNIT TO BE PROGRAMMED AS 30 MIN. OVERRIDE TIME-TO-OFF, COLOR PER OWNER/ARCHITECT (\*). REFER TO LIGHTING CONTROL DIAGRAM.  
WATTS/DROPPER #TS-400-\*



| <b>McMullen Engineering Co., Inc.</b><br>100 SOUTH STATE ST.<br>WESTERVILLE, OH 43081<br>614-895-9408 FAX 614-895-9450                                                                                                               |              |      |            | <b>JOB NAME:</b> HNLCL 1401 Mount Vernon Road<br><b>JOB #:</b> 2305-B<br><b>DATE:</b> 4/8/2023<br><b>VOLTAGE:</b> 208 BY <b>PHASE:</b> 3 |         |                |           |          |       |      |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|------------|------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|-----------|----------|-------|------|-------|
| <b>SUMMARY OF CONNECTED LOAD IN KW</b>                                                                                                                                                                                               |              |      |            |                                                                                                                                          |         |                |           |          |       |      |       |
| DESCRIPTION OF LOAD                                                                                                                                                                                                                  | TYPE OF LOAD |      |            |                                                                                                                                          |         |                |           |          |       |      | TOTAL |
|                                                                                                                                                                                                                                      | LTS          | ROPT | MOTOR      | ELEC HTS                                                                                                                                 | COOLING | KITCHEN APPL.* | WATER HTR | COMPUTER | REFRG | MISC |       |
| PANEL PP1                                                                                                                                                                                                                            | 5.0          | 6.5  | 1.6        |                                                                                                                                          | 30.1    |                |           | 1.5      |       | 2.0  | 46.7  |
| LARGEST MOTOR LOAD                                                                                                                                                                                                                   | 0.8          | x    | 2.5% = 0.2 |                                                                                                                                          |         |                |           |          |       |      |       |
| TOTAL CONNECTED KW                                                                                                                                                                                                                   | 5.0          | 6.5  | 1.6        |                                                                                                                                          | 30.1    |                |           | 1.5      |       | 2.0  | 46.7  |
| DEMAND FACTOR                                                                                                                                                                                                                        | 1.25%        | -    | -          | -                                                                                                                                        | GREATER | 100%           | 100%      | 100%     | 100%  | 100% | 46.7  |
| N.E.C. DIVERSIFIED KW                                                                                                                                                                                                                | 6.3          | 6.5  | 1.8        |                                                                                                                                          | 30.1    |                |           | 1.5      |       | 2.0  | 48.2  |
| <b>MINIMUM MAIN SWITCH SIZE = 1000 x KW / (VOLTAGE x SQRT(PHASE)) = 134 AMPS</b>                                                                                                                                                     |              |      |            |                                                                                                                                          |         |                |           |          |       |      |       |
| * SEE NEC FOR APPROPRIATE DEMAND FACTOR<br>**100% OF FIRST 100kW + 50% OF THE REMAINING KW<br>***25% OF THE LARGEST MOTOR LOAD IS ADDED TO THE TOTAL MOTOR LOAD INCLUDING THE LARGEST MOTOR LOAD. ENTER THE LARGEST MOTOR LOAD TWICE |              |      |            |                                                                                                                                          |         |                |           |          |       |      |       |

| EXISTING PANEL: <b>"BOLD"</b> DENOTES NEW, <i>"ITALICS"</i> DENOTES EXISTING |     |                       |  |      |        |                    |     |        |                     |       |                   |          |         |            |  |
|------------------------------------------------------------------------------|-----|-----------------------|--|------|--------|--------------------|-----|--------|---------------------|-------|-------------------|----------|---------|------------|--|
| PANEL                                                                        |     | MAIN BREAKER          |  | NO   |        | 400 AMP.           |     | EXG    |                     | A/C   |                   | MOUNTING |         | EXG        |  |
| PF2                                                                          |     | MAIN LUGS ONLY        |  | YES  |        | 120 / 208 VOLTS    |     |        |                     |       |                   | LOCATION |         | (SEE PLAN) |  |
| TYPE                                                                         |     | SOLID NEUTRAL         |  | YES  |        | 3 PH. 4 WIRE 60 HZ |     |        |                     |       |                   | FED FROM |         | SVC/DC     |  |
| EXG                                                                          |     | GROUND BUS            |  | YES  |        | * = GFI BREAKER    |     |        |                     |       | ** = WITH LOCK-ON |          |         |            |  |
| OKT No.                                                                      | BKR | LOAD                  |  | WIRE | OKT KW | PHASE A B C        |     | OKT KW | WIRE                | LOAD  |                   | BKR      | OKT No. |            |  |
| 1                                                                            |     |                       |  |      |        | X                  | 1.1 | EXG    | RCPT - OFFICE       |       |                   | 2        |         |            |  |
| 3                                                                            | 204 | SPARE                 |  |      |        | X                  | 1.1 | EXG    | RCPT - PARTS        |       |                   | 201      | 4       |            |  |
| 5                                                                            |     |                       |  |      |        | X                  | 1.1 | EXG    | RCPT - UTILITY      |       |                   | 201      | 6       |            |  |
| 7                                                                            |     |                       |  |      |        | X                  |     |        |                     |       |                   |          | 8       |            |  |
| 9                                                                            | 303 | SPARE                 |  |      |        |                    |     |        |                     | SPARE |                   | 303      | 10      |            |  |
| 11                                                                           |     |                       |  |      |        |                    |     | X      |                     |       |                   |          | 12      |            |  |
| 13                                                                           |     |                       |  |      |        | X                  |     |        |                     |       |                   |          | 14      |            |  |
| 15                                                                           | 403 | SPARE                 |  |      |        | X                  |     |        |                     | SPARE |                   | 403      | 16      |            |  |
| 17                                                                           |     |                       |  |      |        |                    |     | X      |                     |       |                   |          | 18      |            |  |
| 19                                                                           | 204 | FRONT OFFICE          |  | EXG  | 1.0    | X                  |     |        |                     | SPARE |                   | 201      | 20      |            |  |
| 21                                                                           | 204 | RCPT - SHOWROOM       |  | EXG  | 1.1    | X                  |     |        |                     | SPARE |                   | 201      | 22      |            |  |
| 23                                                                           | 204 | RCPT - SHOWROOM       |  | EXG  | 1.1    | X                  |     |        |                     | SPARE |                   | 201      | 24      |            |  |
| 25                                                                           | 204 | SPARE                 |  |      |        | X                  |     |        |                     | SPARE |                   | 201      | 26      |            |  |
| 27                                                                           | 204 | SPARE                 |  |      |        | X                  |     |        |                     | SPARE |                   | 201      | 28      |            |  |
| 29                                                                           | 204 | SPARE                 |  |      |        | X                  | 1.1 | EXG    | RCPT - FRONT OFFICE |       |                   | 201      | 30      |            |  |
| 31                                                                           | 204 | SPARE                 |  |      |        | X                  |     |        |                     | SPARE |                   | 201      | 32      |            |  |
| 33                                                                           | 204 | OUTDOOR WALL PACK     |  | EXG  | 0.4    | X                  | 0.4 | EXG    | RCPT - BATHROOM     |       |                   | 201      | 34      |            |  |
| 35                                                                           | 204 | SPARE                 |  |      |        | X                  | 1.1 | EXG    | RCPT - SHOWROOM     |       |                   | 201      | 36      |            |  |
| 37                                                                           | 204 | SPARE                 |  |      |        | X                  |     |        |                     | SPARE |                   | 201      | 38      |            |  |
| 39                                                                           | 204 | SPARE                 |  |      |        | X                  |     |        |                     | SPARE |                   | 201      | 40      |            |  |
| 41                                                                           | 204 | RCPT - SHOP BAY NORTH |  | EXG  | 1.1    | X                  |     |        |                     | SPARE |                   | 201      | 42      |            |  |

| ELECTRICAL LEGEND                                                                     |                                                                                                                                                                 |                                                                                       |                                        |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
|  | LIGHT FIXTURE WIRED FOR NIGHT LIGHT USE.                                                                                                                        | AF                                                                                    | ABOVE FINISHED FLOOR                   |
|  | SINGLE POLE SWITCH, M.H. 42" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE.                                                                                           | C                                                                                     | CONDUIT                                |
|  | 20 AMP. 120 VOLT NEMA 5-20R GROUNDING TYPE DUPLEX RECEPTACLE, M.H. 18" TO BOTTOM UNLESS OTHERWISE NOTED.                                                        | EF                                                                                    | EXHAUST FAN                            |
|  | 20 AMP. 120 VOLT NEMA 5-20 GROUNDING TYPE DUPLEX RECEPTACLE W/ SELF-CONTAINED GROUND FAULT INTERRUPTIONS PROVISIONS. M.H. 18" TO BOTTOM UNLESS OTHERWISE NOTED. | EM                                                                                    | EMERGENCY                              |
|                                                                                       |                                                                                                                                                                 | EW                                                                                    | ELECTRIC WATER COOLER                  |
|                                                                                       |                                                                                                                                                                 | EX'G, (E)                                                                             | EXISTING                               |
|                                                                                       |                                                                                                                                                                 | GF                                                                                    | GROUND FAULT INTERRUPTOR               |
|                                                                                       |                                                                                                                                                                 | GN                                                                                    | GROUND                                 |
|                                                                                       |                                                                                                                                                                 | MH                                                                                    | MOUNTING HEIGHT (ABOVE FINISHED FLOOR) |
|                                                                                       |                                                                                                                                                                 | UG                                                                                    | UNDERGROUND                            |
|  | BRANCH CIRCUIT INDICATE, 1/2" MINIMUM. INDICATES BELOW SLAB OR IN CEILING OR WALLS, SLASH MARK INDICATE NUMBER OF CIRCUITS, #12 AVG. UNLESS NOTED OTHERWISE.    | WP                                                                                    | WEATHERPROOF                           |
|                                                                                       |                                                                                                                                                                 | OH                                                                                    | OVERHEAD                               |
|  | HOMERUN TO PANELBOARD, 3/4" MINIMUM. LETTERS INDICATES PANEL, NUMBERS INDICATE CIRCUITS.                                                                        | (TIE)                                                                                 | INDICATES SAME CIRCUIT USED ELSEWHERE  |
|  | WIRING & CONDUIT UNDERFLOOR.                                                                                                                                    | PE                                                                                    | PRIMARY ELECTRIC                       |
|  | SMOKE DETECTOR, DUCT MOUNTED                                                                                                                                    | SE                                                                                    | SECONDARY ELECTRIC                     |
|                                                                                       |                                                                                                                                                                 |  | CODED NOTE, NUMBER 2 IDENTIFICATION    |

- ## POWER CODED NOTES
- (APPLICABLE TO THIS SHEET ONLY)
1. NO POWER SCOPE/WORK THIS ROOM/AREA.
  2. NO POWER SCOPE/WORK THIS ROOM/AREA BEYOND WHAT IS IDENTIFIED.
  3. DEVICE PROTECTED BY GFI BREAKER IN PANELBOARD.
  4. WATER HEATER, BY PC. PROVIDE LOCAL DISCONNECT AND CIRCUIT AS IDENTIFIED.
  5. ROOFTOP UNIT FROM INTEGRAL DISCONNECT AND RECEPTACLE, BY HC. PROVIDE A 1" CONDUIT SUB FROM INTEGRAL SWITCH AND A 1" CONDUIT SUB FROM INTEGRAL RECEPTACLE DOWN THRU ROOF. SEAL PENETRATION THRU ROOF WATERTIGHT. CIRCUIT AS IDENTIFIED.
  6. PROVIDE DUCT DETECTOR IN R/A DUCT, BELOW DUCT. REFER TO DETAIL #1/THIS SHEET FOR SPEC & SIMILAR SCOPE.
  7. PROVIDE WATERPROOF FLOOR AND WATERPROOF SWITCH PER DETAIL #2/THIS SHEET. SEAL PENETRATION THRU ROOF WATERTIGHT. CIRCUIT AS IDENTIFIED.
  8. CLEAN & REPAIR ALL LIGHT RECEPTACLE COVERS AND PUT INTO "LIKE NEW" AND REPAIRABLE CONDITION. REPLACE ANY NOT REPAIRABLE.
  9. FURNISH, BY HC. PROVIDE LOCAL DISCONNECT AND CIRCUIT AS IDENTIFIED.
  10. REMOVE CONDENSING UNIT (ON ROOF), BY HC. PROVIDE LOCAL NEMA R3 DISCONNECT AND CIRCUIT AS IDENTIFIED.

- # ELECTRICAL GENERAL NOTES
1. COORDINATE ALL WORK WITH OTHER TRADES.
  2. FIELD VERIFY EXISTING CONDITIONS AS SHOWN ON DRAWINGS. ALL OBVIOUS WORK ITEMS REQUIRED FOR OPERABLE SYSTEMS SHALL BE INCLUDED EVEN IF NOT SPECIFICALLY DRAWN THEREON.
  3. THIS CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES, AND OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION RELATIVE TO ALL ELECTRICAL WORK.
  4. THIS CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND ALL ITEMS OF WORK NOT SPECIFICALLY LISTED HEREON.
  5. ALL MATERIALS FURNISHED BY THIS CONTRACTOR SHALL BE NEW AND UNDETERIORATED AND OF A QUALITY NOT LESS THAN THE MINIMUM SPECIFIED. ALL MATERIALS, FIXTURES AND EQUIPMENT SHALL BE U.L. APPROVED AND LABELED.
  6. CONTRACTOR TO PROVIDE ELECTRONICALLY: COPIES OF SHOP DRAWINGS OF ALL NEW WORK TO ARCHITECT FOR REVIEW AND APPROVAL TO PURCHASING.
  7. ALL WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE, STATE BUILDING CODE, OSHA, ADA, AND THE STATE ENERGY CODE.
  8. THE DRAWINGS ARE SCHEMATIC AND SHOW APPROXIMATE LOCATIONS OF CONDUIT AND EQUIPMENT. EXACT LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR AND VERIFIED IN THE FIELD.
    - a. ALL WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE "EMT" WHEN INSTALLED CONCEALED IN WALLS OR ABOVE CEILING OR EXPOSED ABOVE 8'-0" ABOVE THE FINISHED FLOOR. USE RIGID GALVANIZED CONDUIT WHEN EXPOSED BELOW 8'-0" ABOVE FINISHED FLOOR.
  9. USE "MC" CABLE ONLY IF #1 APPROVED BY LOCAL CODE JURISDICTION FOR 20 AMP BRANCH CIRCUITS. IF NOT APPROVED BY LOCAL CODE, USE INTERMEDIATE RATED OR CONCEALED. DO NOT EXPOSE ANY "MC" CABLE. INSTALLATION AND SUPPORT OF "MC" CABLE SHALL BE PER CODE REQUIREMENTS.
  10. ALL CONDUCTORS SHALL BE STRANDDED AND OF AWG SIZE AS SHOWN ON DRAWINGS. ALL WIRE SIZE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. LESS THAN #12 TYPE THIN OR XHHW AND SHALL BE SIZED FOR THE OVERCURRENT DEVICE AMPERAGE RATING PER N.E.C. ARTICLE 310. ALL CONDUCTORS SHALL BE CIRCLED AND HAVE 600 VOLT OR 90 DEGREES C RATED INSULATION.
  11. ALL WIRE SIZES SHALL BE SPECIFICATION GRADE 120/277 VOLT AC RATED 20 AMP.
  12. ALL 120 VOLT DUPLEX RECEPTACLES SHALL BE RATED FOR 20 AMP, COMMERICAL SPECIFICATION GRADE WITH FINDER GROOVE FRONT.
  13. ALL LIGHTING FIXTURES SHALL BE AS LISTED IN LIGHTING FIXTURE SCHEDULE WITH ALL REQUIRED MOUNTING HARDWARE FOR A COMPLETE INSTALLATION. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL MANUFACTURER'S REQUIREMENTS.