

# NCDOT DIVISION OF HIGHWAYS, DIVISION 10 OFFICE SECURITY UPGRADES

## PROJECT TEAM

OWNER:

**NCDOT DIV 10**  
716 WEST MAIN STREET ALBEMARLE,  
NC 28001  
p 704 983 4400

**adw**architects  
environmentsforlife

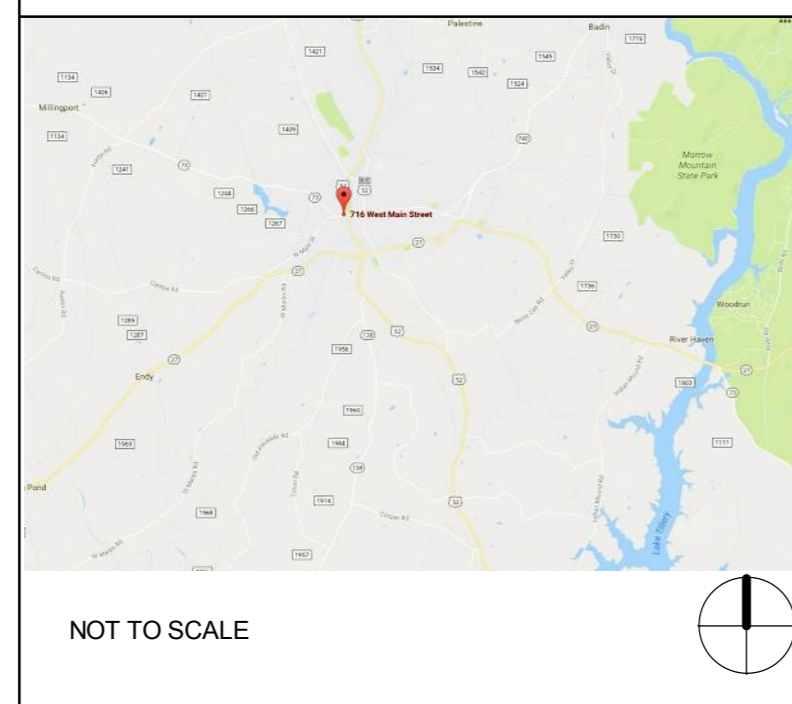
architecture planning interiors  
2815 Coliseum Centre Drive, Suite 500  
Charlotte, North Carolina 28217  
p 704.379.1919 f 704.379.1920

PLUMBING, MECHANICAL, ELECTRICAL,  
& FIRE PROTECTION:  
**McCracken & Lopez, P.A**  
2151 Hawkins Street, Suite 500, Charlotte,  
NC 28203  
p 704/376-7072 f 704/376-4465

### DRAWING SYMBOLS

|                         |  |               |
|-------------------------|--|---------------|
| ELEVATION MARK          |  | DETAIL NUMBER |
|                         |  | SHEET NUMBER  |
| SECTION MARK            |  |               |
| DETAIL CALLOUT MARK     |  | DETAIL NUMBER |
|                         |  | SHEET NUMBER  |
| COLUMN GRID REFERENCE   |  |               |
| ROOM NAME & NUMBER      |  | ROOM NAME     |
| REVISION CLOUD & NUMBER |  |               |
| WALL TYPE               |  |               |
| DOOR TYPE               |  |               |
| WINDOW TYPE             |  |               |
| ELEVATION               |  |               |
| MATCH LINE              |  |               |
| FINISH MARK             |  |               |

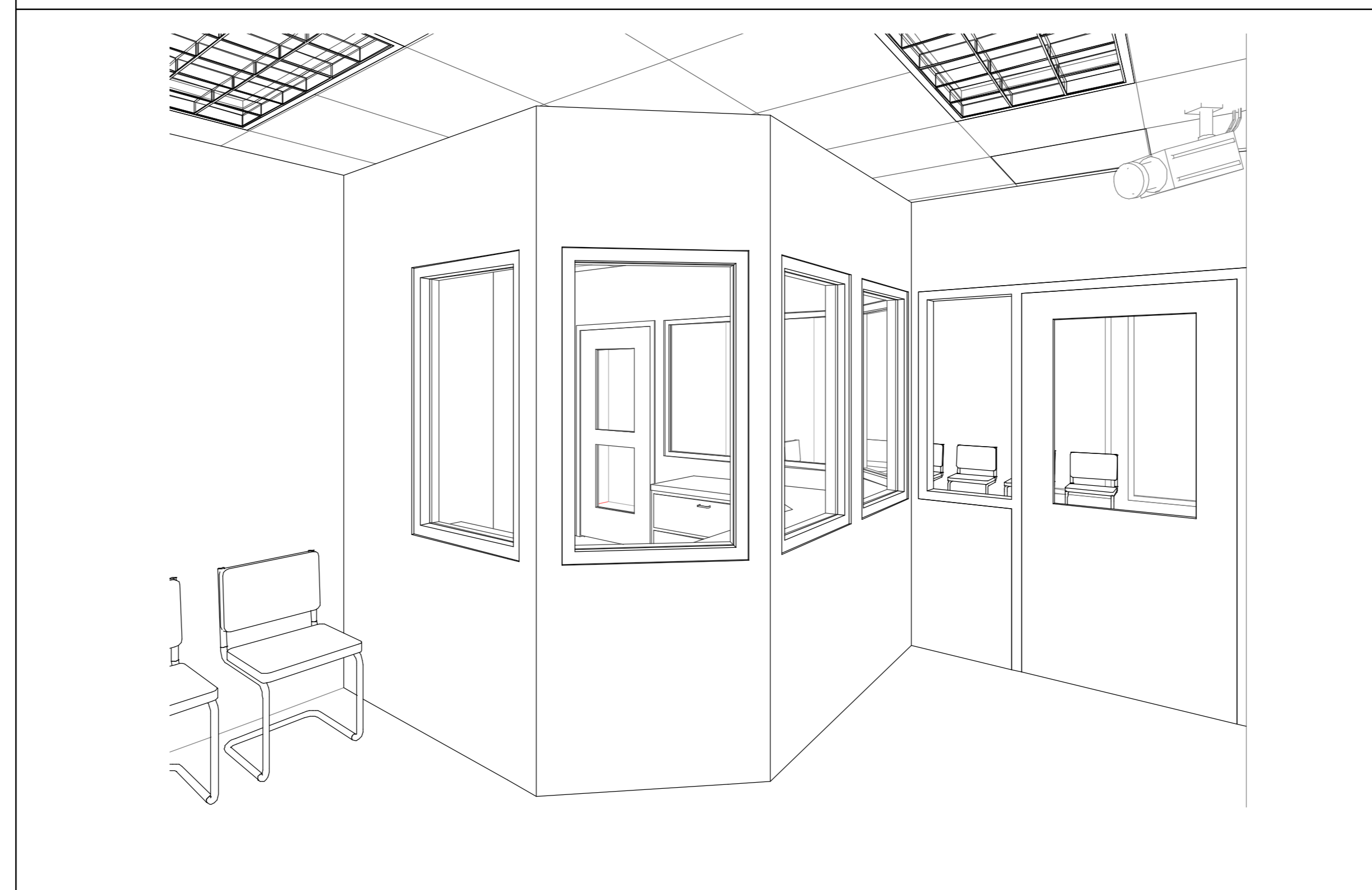
### VICINITY MAP



### ISSUE DATES

08.26.16 CONSTRUCTION DOCUMENT - PERMIT SUBMITAL  
03.08.17 BID SET

### RENDERING



### SHEET INDEX

| SHEET NO.     | SHEET TITLE   | ISSUED | REVISION |
|---------------|---|--------|----------|
| GENERAL       |   |        |          |
| A001          | LIFE SAFETY PLAN AND CODE INFORMATION - APPENDIX B      | No     |          |
| ARCHITECTURAL |   |        |          |
| A101          | FLOOR PLANS   | No     |          |
| A102          | RECEPTION PLAN & DETAILS, DOOR & WINDOW TYPES & DETAILS | No     |          |
| ELECTRICAL    |   |        |          |
| E101          | ELECTRICAL PLANS AND DETAILS                            | No     |          |
| E102          | ELECTRICAL DETAILS                                      | No     |          |

### ABBREVIATIONS

|                                   |                                   |                                |                               |
|-----------------------------------|-----------------------------------|--------------------------------|-------------------------------|
| AFF APPROX                        | ABOVE FINISH FLOOR                | FEC FIRE EXTINGUISHER CABINET  | PA PUBLIC ADDRESS             |
| ARCH ARCHITECTURAL                | APPROXIMATE                       | FED FEDERAL                    | PL PLATE                      |
| AUTO AUTOMATIC                    | ARCHITECTURAL                     | FJ FORMED FLOOR JOINT          | PL PREFABRICATED              |
| AUX AUXILIARY                     | AUTOMATIC                         | FJ FLOOR JOINT                 | PRELIM PRELIMINARY            |
| AVG AVERAGE                       | AUXILIARY                         | FIG FIGURE                     | PROJ PROJECT                  |
| BD BOARD                          | AVG AVERAGE                       | FIN FINISH                     | PSF POUNDS PER SQUARE FOOT    |
| BLOG BUILDING                     | BOARD BOARD                       | FIN FLR FINISH FLOOR           | PSI POUNDS PER SQUARE INCH    |
| BOT BOTTOM                        | BLOG BUILDING                     | FIN GRD FINISH GRADE           | PT POINT                      |
| BRG BEARING                       | BOT BOTTOM                        | FLR FLOOR                      | R (RAD) RADIUS                |
| BTU BRITISH THERMAL UNITS         | BRG BEARING                       | FPM FEET PER MINUTE            | RA RETURN AIR                 |
| C CELSIUS                         | BTU BRITISH THERMAL UNITS         | FPS FEET PER SECOND            | RD ROOF DRAIN                 |
| CB CATCH BASIN                    | C CELSIUS                         | FT FEET                        | REFRIG REFRIGERATOR           |
| CJ CONTROL JOINT                  | CB CATCH BASIN                    | GA GAUGE                       | REINF REINFORCE               |
| CLG CEILING                       | CJ CONTROL JOINT                  | GAL GALLON                     | REQD REQUIRED                 |
| CLR CLEAR                         | CLG CEILING                       | GALV GALVANIZED                | RH RIGHT HAND                 |
| CMU CONCRETE MASONRY UNIT         | CLR CLEAR                         | GEN GENERAL                    | RHR RIGHT HAND REVERSE        |
| CO2 CARBON DIOXIDE                | CMU CONCRETE MASONRY UNIT         | GPH GALLONS PER HOUR           | SD STORM DRAIN                |
| COL COLUMN                        | CO2 CARBON DIOXIDE                | GPM GALLONS PER MINUTE         | SHT SHEET                     |
| CONC CONCRETE                     | COL COLUMN                        | GOVT GOVERNMENT                | SIM SIMILAR                   |
| CONST CONSTRUCTION                | CONC CONCRETE                     | GWB GYPSUM WALL BOARD          | SPEC SPECIFICATION            |
| CST CONCRETE STAIN                | CONST CONSTRUCTION                | GYP GYPSUM                     | SQ SQUARE                     |
| CTR CENTER                        | CST CONCRETE STAIN                | GYPB GYPSUM BOARD              | SQ FT SQUARE FOOT             |
| CL TO CL CENTERLINE TO CENTERLINE | CTR CENTER                        | HDW HARDWARE                   | SQ IN SQUARE INCH             |
| CU FT CUBIC FEET                  | CL TO CL CENTERLINE TO CENTERLINE | HGT HEIGHT                     | ST STREET                     |
| HR HOUR                           | CU FT CUBIC FEET                  | HORIZ HORIZONTAL               | STD STANDARD                  |
| CU YD CUBIC YARD                  | HR HOUR                           | HVAC HEATING, VENTILATION, A/C | STL STEEL                     |
| DBL DOUBLE                        | CU YD CUBIC YARD                  | IN INCH                        | STRUCT STRUCTURAL             |
| DEPT DEPARTMENT                   | DBL DOUBLE                        | INFO INFORMATION               | SYM SYMBOL                    |
| DF DRINKING FOUNTAIN              | DEPT DEPARTMENT                   | INSUL INSULATION               | T&G TONGUE & GROOVE           |
| DIA DIAMETER                      | DF DRINKING FOUNTAIN              | INVT INVERT                    | TEL TELEPHONE                 |
| DIM DIMENSION                     | DIA DIAMETER                      | JT JOINT                       | TV TELEVISION                 |
| DWG DRAWING                       | DIM DIMENSION                     | LAB LABORATORY                 | TYP TYPICAL                   |
| EA EACH                           | DWG DRAWING                       | LB POUND                       | VCT VINYL COMPOSITION TILE    |
| ED EQUIPMENT DRAIN                | EA EACH                           | LH LEFT HAND                   | VERT VERTICAL                 |
| EEJ EXTERIOR EXPANSION JOINT      | ED EQUIPMENT DRAIN                | LHR LEFT HAND REVERSE          | VOL VOLATILE ORGANIC COMPOUND |
| EF EXHAUST FAN                    | EEJ EXTERIOR EXPANSION JOINT      | LI LIVE LOAD                   | VOL VOLUME                    |
| ELEV ELEVATION                    | EF EXHAUST FAN                    | LN MAINTENANCE                 | WC WATER CLOSET               |
| ELEC ELECTRICAL                   | ELEV ELEVATION                    | MAX MAXIMUM                    | UNO UNLESS OTHERWISE NOTED    |
| ELEM ELEMENTARY                   | ELEC ELECTRICAL                   | MECH MECHANICAL                |                               |
| ELEV ELEVATION                    | ELEM ELEMENTARY                   | MEMO MEMORANDUM                |                               |
| ENGR ENGINEER                     | ELEV ELEVATION                    | MEZZ MEZZANINE                 |                               |
| EQ EQUAL                          | ENGR ENGINEER                     | MFG MANUFACTURE(R)             |                               |
| EQUIP EQUIPMENT                   | EQ EQUAL                          | MH MANHOLE                     |                               |
| EWC ELECTRIC WATER COOLER         | EQUIP EQUIPMENT                   | MIN MINIMUM                    |                               |
| EXH EXHAUST                       | EWC ELECTRIC WATER COOLER         | MISC MISCELLANEOUS             |                               |
| EXIST EXISTING                    | EXH EXHAUST                       | MO MASONRY OPENING             |                               |
| EXP EXPANSION                     | EXIST EXISTING                    | MTL METAL                      |                               |
| EXPJT EXPANSION JOINT             | EXP EXPANSION                     | NA NOT APPLICABLE              |                               |
| F FAHRENHEIT                      | EXPJT EXPANSION JOINT             | NEG NEGATIVE                   |                               |
| FAB FABRICATE                     | F FAHRENHEIT                      | NIC NOT IN CONTRACT            |                               |
| FD FLOOR DRAIN                    | FAB FABRICATE                     | NO NUMBER                      |                               |
| FE FIRE EXTINGUISHER              | FD FLOOR DRAIN                    | NTS NOT TO SCALE               |                               |
|                                   | FE FIRE EXTINGUISHER              | OC ON CENTER                   |                               |
|                                   |                                   | OD OUTSIDE DIAMETER            |                               |
|                                   |                                   | OPP OPPOSITE HAND              |                               |
|                                   |                                   | OPP OPPOSITE                   |                               |



COVER SHEET

DATE: 08-26-16  
PROJECT NO: 16020.00

SHEET NUMBER

**A000**



**2012 APPENDIX B  
BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL PROJECTS  
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**  
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: **DIV 10 OFFICE SECURITY UPGRADES**  
 Address: **716 WEST MAIN STREET ALBEMARLE, NC** Zip Code **28001**  
 Owner/Authorized Agent: **TDM/ELK** Phone: 704.983.4400 E-Mail: **tmkirk@ncdot.gov**  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  City ALBEMARLE  County  State

**LEAD DESIGN PROFESSIONAL:**

| DESIGNER                | FIRM             | NAME            | LICENSE # | TELEPHONE #  | E-MAIL                    |
|-------------------------|------------------|-----------------|-----------|--------------|---------------------------|
| Architectural           | ADW ARCHITECTS   | JAMES POWELL    | 5454      | (704)79-1919 | jpowell@adwarchitects.com |
| Electrical              | MCCRACKEN ALORGE | GAIL CRAIG      | 01849     | (704)76-7072 | gail@mccrackenlorge.com   |
| Fire Alarm              | MCCRACKEN ALORGE | GAIL CRAIG      | 01849     | (704)76-7072 | gail@mccrackenlorge.com   |
| Plumbing                | MCCRACKEN ALORGE | JAMES L. CURRIE | 031478    | (704)76-7072 | james@mccrackenlorge.com  |
| Mechanical              | MCCRACKEN ALORGE | JAMES L. CURRIE | 031478    | (704)76-7072 | james@mccrackenlorge.com  |
| Structural              | MCCRACKEN ALORGE | JAMES L. CURRIE | 031478    | (704)76-7072 | james@mccrackenlorge.com  |
| Specialty               |                  |                 |           |              |                           |
| Restroom Use Separation |                  |                 |           |              |                           |

**2012 EDITION OF NC CODE FOR:**  New Construction  Addition  Upfit  
**EXISTING:**  Reconstruction  Alteration  Renovation  
**CONSTRUCTED:** (date) **1908** **ORIGINAL USE(S)** (Ch. 3): **BUSINESS**  
**RENOVATED:** (date) **\_\_\_\_\_** **CURRENT USE(S)** (Ch. 3): **BUSINESS**  
**PROPOSED USE(S)** (Ch. 3): **BUSINESS**

**BASIC BUILDING DATA:**  
**Construction Type:**  I-A  II-A  III-A  IV  V-A  
 I-B  II-B  III-B  V-B  
**Sprinklers:**  No  Partial  Yes  NFPA 13  NFPA 13R  NFPA 13D  
**Standpipes:**  No  Yes Class  I  II  III  Wet  Dry  
**Fire District:**  No  Yes (Primary)  Flood Hazard Area:  No  Yes  
**Building Height:** (feet) \_\_\_\_\_

**Gross Building Area:**

| FLOOR     | EXISTING (SQ. FT.) | NEW (SQ. FT.) | RENOVATED (SQ. FT.) | SUB-TOTAL |
|-----------|--------------------|---------------|---------------------|-----------|
| 3rd Floor |                    |               |                     |           |
| 2nd Floor |                    |               |                     |           |
| Mezzanine |                    |               |                     |           |
| 1st Floor | 13,500 SF          | N/A           | 472 SF              | 472 SF    |
| Basement  |                    |               |                     |           |
| TOTAL     |                    |               |                     |           |

**ALLOWABLE AREA**  
 2012 NC Administrative Code and Policies

**Assembly Business:**  A-1  A-2  A-3  A-4  A-5  
**Educational:**  E-1  E-2  E-3  E-4  E-5  
**Factory:**  F-1 Moderate  F-2 Low  
**Hazardous:**  H-1 Detonate  H-2 Deflagrate  H-3 Combat  H-4 Health  H-5 HPM  
**Institutional:**  I-1  I-2  I-3  I-4  
**Residential:**  R-1  R-2  R-3  R-4  
**Storage:**  S-1 Moderate  S-2 Low  High-piled  
 Parking Garage  Open  Enclosed  Repair Garage  
 Utility and Miscellaneous

**Accessory Occupancies:**  
**Assembly Business:**  A-1  A-2  A-3  A-4  A-5  
**Educational:**  E-1  E-2  E-3  E-4  E-5  
**Factory:**  F-1 Moderate  F-2 Low  
**Hazardous:**  H-1 Detonate  H-2 Deflagrate  H-3 Combat  H-4 Health  H-5 HPM  
**Institutional:**  I-1  I-2  I-3  I-4  
**Residential:**  R-1  R-2  R-3  R-4  
**Storage:**  S-1 Moderate  S-2 Low  High-piled  
 Parking Garage  Open  Enclosed  Repair Garage  
 Utility and Miscellaneous

**Incidental Uses (Table 508.2.5):**  
 Furnace room where any piece of equipment is over 400,000 Btu per hour input  
 Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower  
 Refrigerant machine room  
 Hydrogen cutoff rooms, not classified as Group H  
 Incinerator rooms  
 Paint shops, not classified as Group H, located in occupancies other than Group F  
 Laboratories and vocational shops, not classified as Group H, located in a Group F or F-2 occupancy  
 Laundry rooms over 100 square feet  
 Group I-3 cells equipped with padded surfaces  
 Group I-2 waste and linen collection rooms  
 Waste and linen collection rooms over 100 square feet  
 Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies  
 Rooms containing fire pumps  
 Group I-2 storage rooms over 100 square feet  
 Group I-2 commercial kitchens  
 Group I-2 laundries equal to or less than 100 square feet  
 Group I-2 rooms or spaces that contain fuel-fired heating equipment

**Special Use:**  402  403  404  405  406  407  408  409  410  411  412  
 413  414  415  416  417  418  419  420  421  422  423  424  
 425  426  427

**Special Provisions:**  509.2  509.3  509.4  509.5  509.6  509.7  509.8  509.9

**Mixed Occupancy:**  No  Yes Separation:  Hr:  Exception: \_\_\_\_\_  
 Incidental Use Separation (508.2.5)  
 This separation is not exempt as a Non-Separated Use (see exceptions).  
 Non-Separated Use (508.3)

2012 NC Administrative Code and Policies

The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, as determined, shall apply to the entire building.  
 Separated Use (508.4) - See below for area calculations  
 For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.  

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

| STORY NO. | DESCRIPTION AND USE | (A) RELATIVE PERCENTAGE (ACTUAL) | (B) TABLE SQ. AREA | (C) AREA FOR PROHIBITED OCCUPANCY | (D) AREA FOR PERMITTED OCCUPANCY | (E) ALLOWABLE AREA OR PERCENTAGE | (F) MAXIMUM BUILDING AREA* |
|-----------|---------------------|----------------------------------|--------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------|
| 1         | BUSINESS            | 13,500                           | 23,000             | N/A                               | N/A                              | N/A                              | 23,000                     |

\* Frontage area (increases from Section 506.2 are computed thus:  
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)  
 b. Total Building Perimeter = (P)  
 c. Ratio (F/P) = (R)  
 d. W = Minimum width of public way = (W)  
 e. Percent of frontage increase =  $1 + 100 [ (F/P) - 0.25 ] \times W/30 = (\%)$   
 The sprinkler increase per Section 506.3 is as follows:  
 a. Multi-story building L = 200 percent  
 b. Single story building L = 300 percent  
 \* Unlimited area applicable under conditions of Section 507.  
 \* Maximum Building Area = total number of stories in the building x E (506.4)  
 \* The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

**ALLOWABLE HEIGHT N/A**

| Type of Construction (Table 503) | ALLOWABLE HEIGHT (FEET) | INCREASE FOR SPRINKLERS (FEET) | DOWN ON FLANS (FEET) | CODE REFERENCE |
|----------------------------------|-------------------------|--------------------------------|----------------------|----------------|
| Type III                         | 55'-0"                  | 0                              | 0                    | 504            |
| Type III                         | 15'-0"                  | 0                              | 0                    | 504            |

**FIRE PROTECTION REQUIREMENTS N/A**

| BUILDING ELEMENT                                     | FIRE SEPARATION DISTANCE (FEET) | RATING | DETAIL # | DESIGN # FOR RATED ASSEMBLY | DESIGN # FOR RATED PENETRATION | DESIGN # FOR RATED JOINTS |
|--|---------------------------------|--------|----------|-----------------------------|--------------------------------|---------------------------|
| Structural Frame, including columns, girders, joists | 0                               | 0      | 0        | 0                           | 0                              | 0                         |
| Roofing Walls  |                                 |        |          |                             |                                |                           |
| Interior   |                                 |        |          |                             |                                |                           |
| Roofs  | N/A                             | -      | -        | -                           | -                              | -                         |

2012 NC Administrative Code and Policies

| Item       | U-Value | R-Value | U-Value | R-Value | U-Value | R-Value |
|------------|---------|---------|---------|---------|---------|---------|
| Roof       | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls      | N/A     | -       | -       | -       | -       | -       |
| Floors     | N/A     | -       | -       | -       | -       | -       |
| Partitions | N/A     | -       | -       | -       | -       | -       |
| Windows    | N/A     | -       | -       | -       | -       | -       |
| Doors      | N/A     | -       | -       | -       | -       | -       |
| Glazing    | N/A     | -       | -       | -       | -       | -       |
| Roofing    | N/A     | -       | -       | -       | -       | -       |
| Walls</    |         |         |         |         |         |         |



### GENERAL SHEET NOTES

- FIELD VERIFY ALL CONDITIONS. GENERAL CONTRACTOR MUST NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK AFFECTED BY SUCH DISCREPANCY.
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM ARCHITECT.
- ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD U.N.O.

### GENERAL NOTES - DEMOLITION

- NOTE THAT ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE LISTED ON THIS SHEET. BALANCE OF DRAWINGS INDICATE OTHER ITEMS NOT LISTED HERE. THE CONTRACTOR WILL BE RESPONSIBLE TO DETERMINE IF OTHER ITEMS WILL NEED TO BE REMOVED OR MODIFIED TO COMPLETE THE NEW WORK.
- DASHED LINES ON DEMOLITION DRAWINGS INDICATE ITEMS TO BE REMOVED.
- OWNER RESERVES THE RIGHT OF REFUSAL ON ALL PRODUCTS BEING REMOVED. CONTRACTOR TO DISPOSE OF ALL PRODUCTS REFUSED.
- ITEMS INDICATED TO BE REMOVED (AND NOT SAVED) SHALL BE DISPOSED OFF SITE AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. THE CONTRACTOR SHALL OBTAIN NECESSARY DEMOLITION PERMITS PRIOR TO ANY DEMOLITION WORK.
- NO HAZARDOUS MATERIAL IS KNOWN TO BE PRESENT IN THE JOB SITE. IF HAZARDOUS MATERIAL IS ENCOUNTERED, CONTRACTOR SHALL IMMEDIATELY CEASE THE WORK IN THE AREA, SECURE THE INVOLVED AREA TO PREVENT INADVERTENT CONTAMINATION OR EXPOSURE AND NOTIFY THE DESIGNER AND OWNER.
- CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION WHICH IS TO REMAIN OR INDICATED TO BE SALVAGED. ANY DAMAGE WITHIN THE LIMITS OF CONSTRUCTION MUST BE REPAIRED AS DESCRIBED IN THE DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY OF ANY SIGNIFICANT EXISTING DAMAGE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS, INCLUDING REQUIRED DEMOLITION OF THE BUILDING & ITS CONTENTS, ACCOMMODATION OF DEMOLITION REMOVAL, AND NEW CONSTRUCTION SCOPE OF WORK. ADDITIONALLY, THESE DRAWINGS MAY NOT INCLUDE ALL EXISTING CONDITIONS WHICH MAY AFFECT THE WORK OF THIS CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR MUST NOTIFY ARCHITECT OF ANY DISCREPANCIES NO LESS THAN 72 HOURS BEFORE THE START OF WORK EFFECTED BY SUCH DISCREPANCY.
- CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL OF THE DEMOLITION AREA.
- PROVIDE INTERIOR SHORING, BRACING, OR SUPPORT AS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO STRUCTURES TO BE DEMOLISHED.
- EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED IN THEIR ENTIRETY TO EXTENT INDICATED ON THE DRAWINGS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. WHERE WALLS AND PARTITIONS ARE INDICATED TO BE DEMOLISHED, REMOVE ALL FRAMING, SUB-FRAMING, INSULATION, SUBSTRATE, WALL BOARD, PANELING AND TRIM AS APPLICABLE.
- REFER TO STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK. COORDINATE ALL DEMOLITION WITH FINAL DESIGN.
- REMOVE MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES, EQUIPMENT, AND DISTRIBUTION SYSTEMS TO THE EXTENT INDICATED AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- PATCHING IS REQUIRED WHERE DEMOLITION OF ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND STRUCTURAL SYSTEMS LEAVES HOLES, VOIDS, OR UNFINISHED CONDITIONS AT FINISHED WALLS, FLOORS, AND CEILINGS. FILL ALL EXISTING CONCRETE FLOOR AND CONCRETE WALL PENETRATIONS RESULTING FROM PIPING AND CONDUIT REMOVAL WITH NON-SHRINK GROUT, READY TO RECEIVE FINAL FLOOR OR WALL FINISH.
- REPAIR EXISTING CONCRETE FLOOR SLABS AND PATCH LEVEL AND REPAIR FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW FLOORING.
- PATCH AND REPAIR EXISTING SLAB. FOR CRACKS OTHER THAN THOSE DETERMINED TO BE HAIRLINE CRACKS (0.01 INCH), SAW CUT THE FULL LENGTH TO RECEIVE CAULK, FILL W/BACKER ROD & SILICONE SEALANT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXTRANEIOUS HANGERS, CONDUITS, AND OTHER ITEMS THAT HAVE BEEN ABANDONED.

### GENERAL NOTES - CEILING PLAN

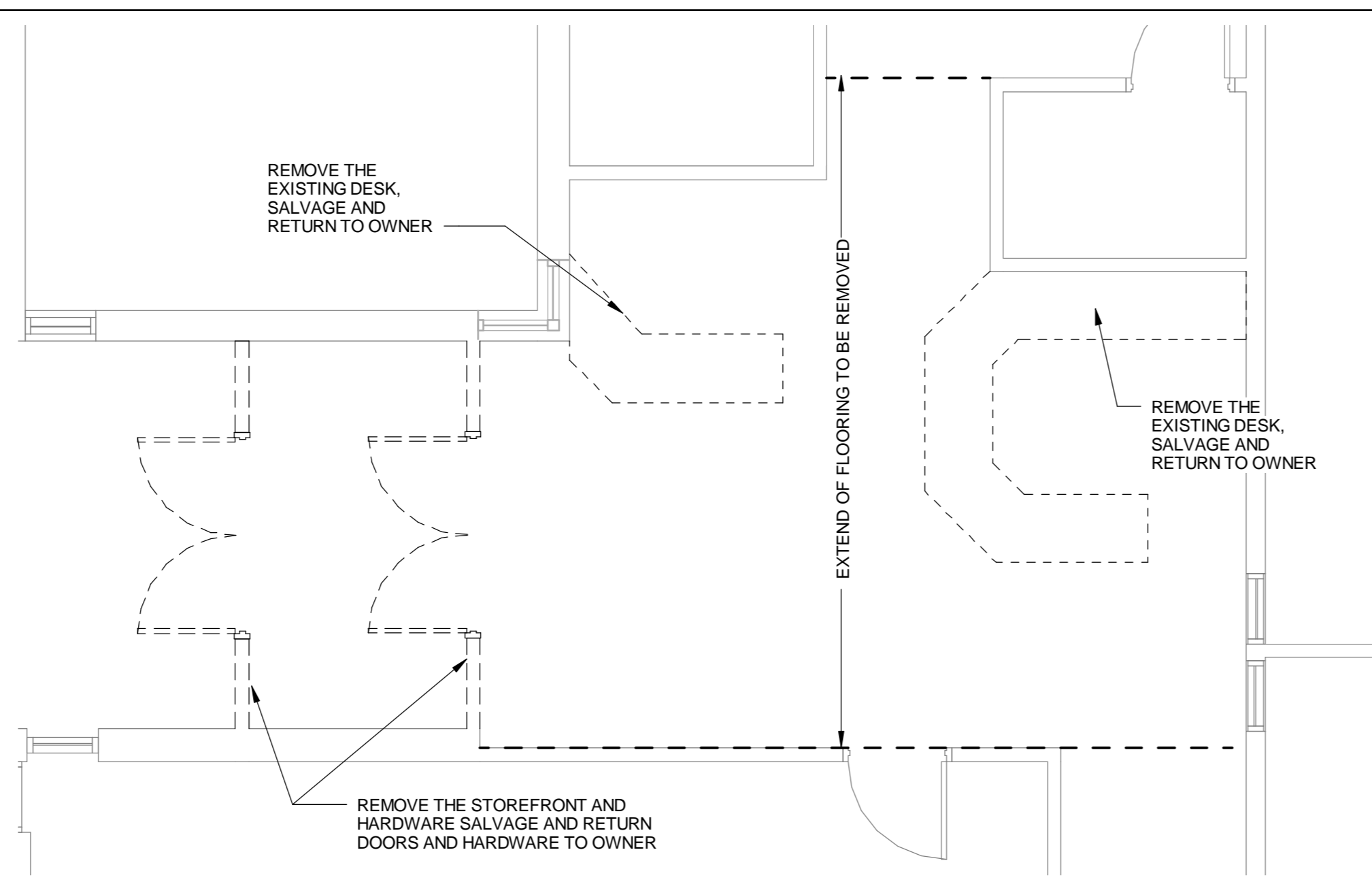
- ALL CEILING HEIGHTS ARE RELATIVE TO FINISH FLOOR ELEVATION UNLESS OTHERWISE NOTED.
- NEW CEILING HEIGHT TO MATCH EXISTING CEILING HEIGHTS.
- ALL NEW CEILING FIXTURES ARE TO HAVE WHITE TRIM OR COVERS U.N.O.
- ALL CEILINGS ARE TO BE INSTALLED AS REQUIRED BY ASCE 7.05 CHAPTER 13 SEISMIC DESIGN FOR NONSTRUCTURAL COMPONENTS AND ANCHORED PER NCSBC SECTION 1621.

#### CEILING TYPES:

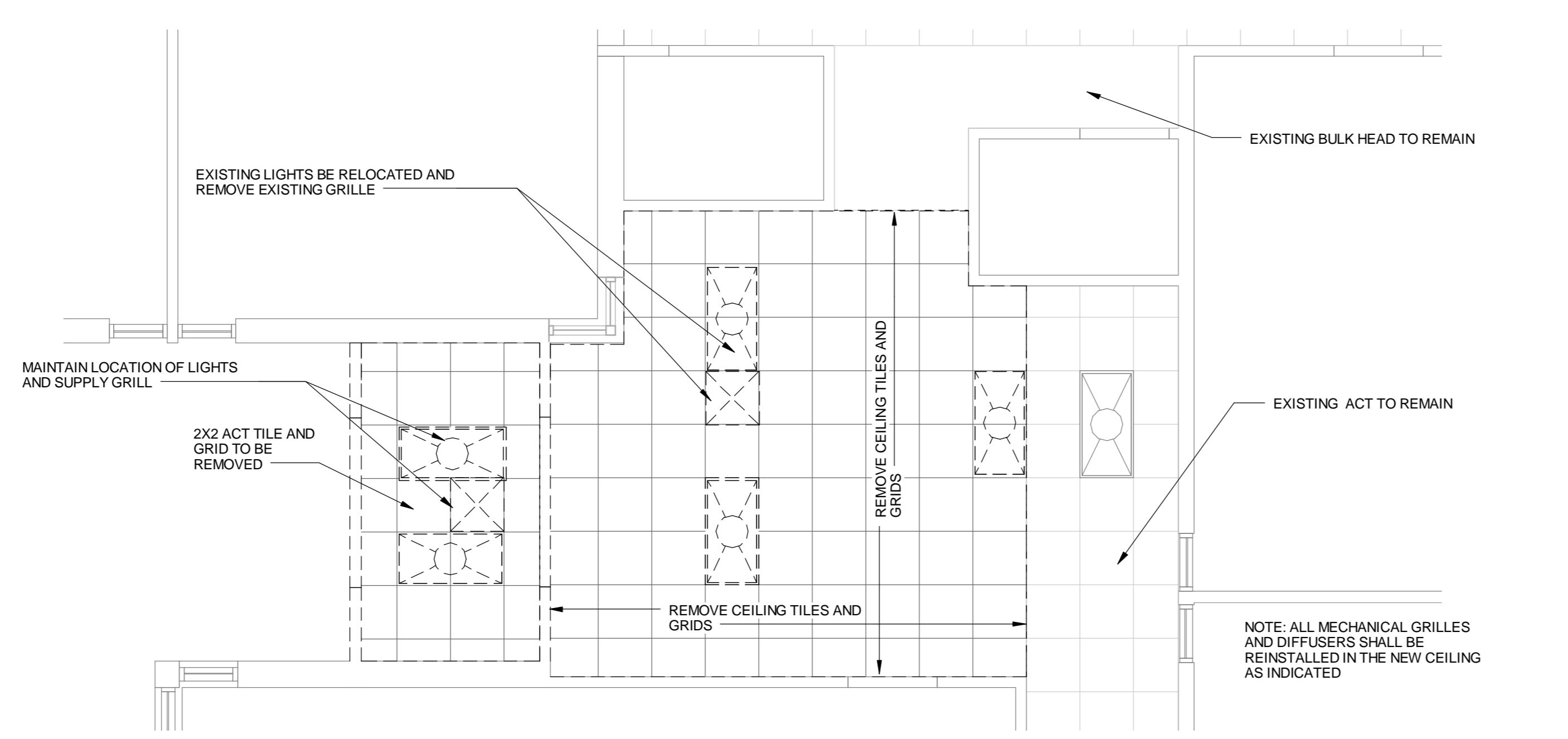
- TYPE #1: NEW ACT-1: 24"x24"x5/8" LAY-IN ACOUSTICAL CEILING - WHITE  
 TYPE #2: GYPSUM BOARD CEILING/SOFFIT - PAINTED P-2  
 A CEILING HEIGHT TO MATCH EXISTING, FIELD VERIFY  
 B BULKHEADS HEIGHT TO MATCH EXISTING, FIELD VERIFY

#### LEGEND:

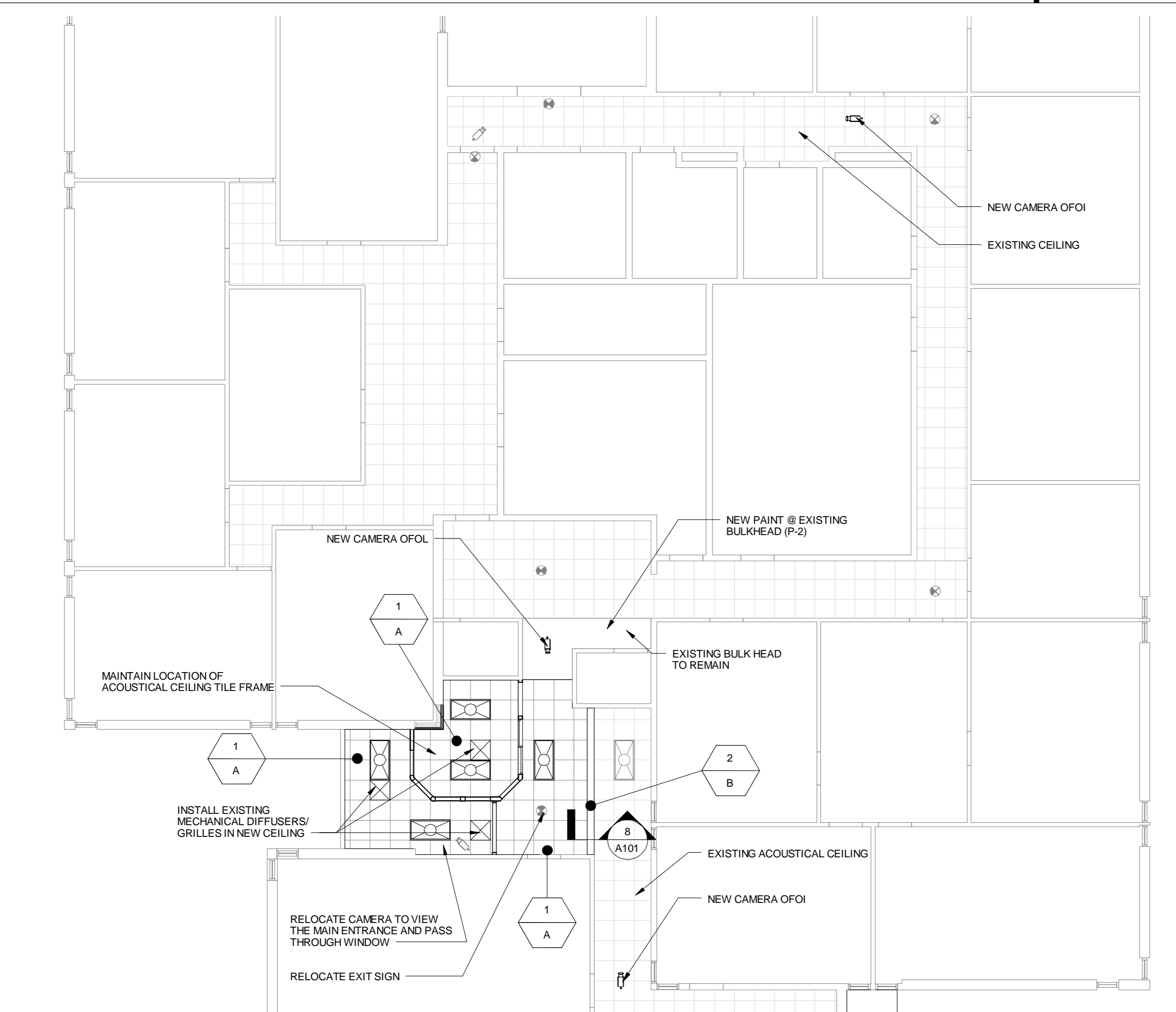
- 1 CEILING TYPE
- 9'-4" CEILING HEIGHT FROM FINISH FLOOR
- NEW 2'x4' FLUORESCENT LIGHT FIXTURE AS REQ'D. SEE ELEC. DWGS. FOR LENS TYPES.
- EXISTING 2'x4' FLUORESCENT LIGHT FIXTURE - REUSE THE EXISTING LIGHT FIXTURE TO NEW LOCATION
- EXISTING EXIT LIGHT - CEILING MOUNTED
- NEW 2x2 HVAC EXHAUST GRILLE - SEE MECH. DRAWINGS
- EXISTING 2x2 HVAC EXHAUST GRILLE
- NEW CEILING MOUNTED CAMERA, SEE ELEC. DRAWINGS
- EXISTING CEILING MOUNTED CAMERA



DEMOLITION PLAN 1/4" = 1'-0" 7



DEMOLITION REFLECTED CEILING PLAN 1/4" = 1'-0" 6



REFLECTED CEILING PLAN 1/8" = 1'-0" 5

### ROOM FINISH SCHEDULE

| ROOM NUMBER | NAME          | FLOOR FINISH | BASE FINISH | TRIM | DOOR | WALLS       |             | MILLWORK   |         | COMMENTS |
|-------------|---------------|--------------|-------------|------|------|-------------|-------------|------------|---------|----------|
|             |               |              |             |      |      | WALL FINISH | ACCENT WALL | COUNTERTOP | CABINET |          |
| 100         | VEST./WAITING | PT-1         | B-1         | --   | --   | P-1         | --          | --         | --      |          |
| 101         | RECEP.        | CPT-1        | B-1         | --   | --   | P-1         | --          | PL-1       | PL-1    |          |
| 102         | WAITING       | PT-1         | B-1         | --   | --   | P-1         | --          | --         | --      |          |

### INTERIOR FINISH LEGEND

| FINISH CODE | MANUFACTURER | PRODUCT NAME | PRODUCT NUMBER | COLOR | SIZE / WIDTH | DESCRIPTION | REMARKS |
|-------------|--------------|--------------|----------------|-------|--------------|-------------|---------|
|-------------|--------------|--------------|----------------|-------|--------------|-------------|---------|

#### FLOOR BASE

|     |            |             |          |                   |      |   |   |
|-----|------------|-------------|----------|-------------------|------|---|---|
| B-1 | JOHNSONITE | RUBBER BASE | STANDARD | TO MATCH EXISTING | 4" H | - | - |
|-----|------------|-------------|----------|-------------------|------|---|---|

#### FLOORING

|       |                     |              |               |                 |           |          |   |
|-------|---------------------|--------------|---------------|-----------------|-----------|----------|---|
| CPT-1 | SHAW CONTRACT GROUP | BRIGHT WORKS | ALLURE 59327  | STARLIGHT 27504 | 24" X 24" | -        | - |
| PT-1  | FLORIDA TILE        | LEVEL 10     | MEZZAHNE GOLD | FTI3334112X24   | 12" x 24" | UNGLAZED | - |

#### WALLS

|     |                  |                     |                   |                   |  |                     |          |
|-----|------------------|---------------------|-------------------|-------------------|--|---------------------|----------|
| P-1 | SHERWIN WILLIAMS | PAINT               | TO MATCH EXISTING | TO MATCH EXISTING |  | STANDARD WALL PAINT | WALL     |
| P-2 | SHERWIN WILLIAMS | PAINT               | TO MATCH EXISTING | TO MATCH EXISTING |  | STANDARD WALL PAINT | BULKHEAD |
| P-3 | SHERWIN WILLIAMS | EXTERIOR RAIL PAINT |                   |                   |  |                     |          |
| P-3 | SHERWIN WILLIAMS | HM FRAME PAINT      |                   |                   |  |                     |          |

#### SURFACES

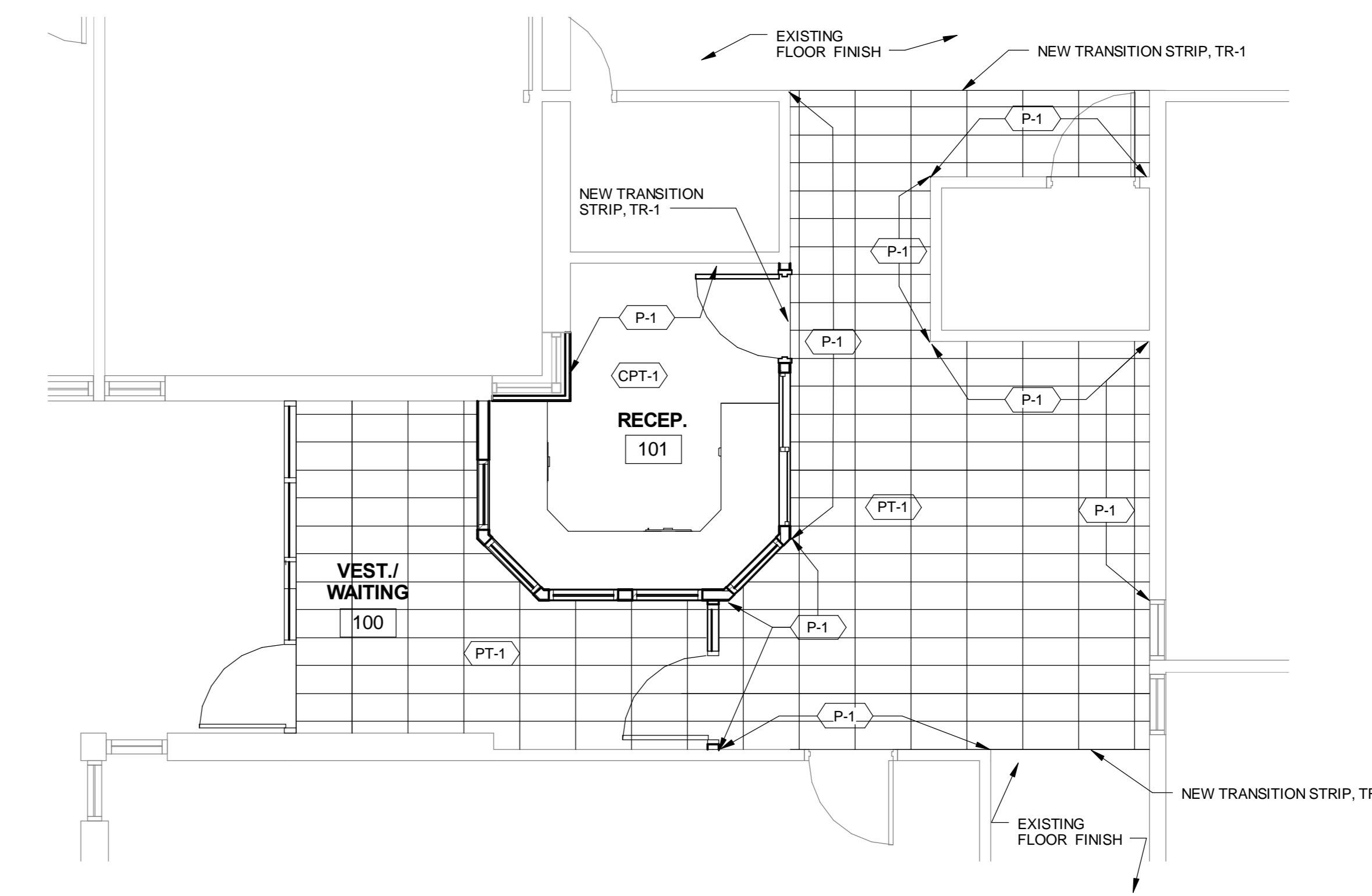
|      |           |                          |          |               |   |              |   |
|------|-----------|--------------------------|----------|---------------|---|--------------|---|
| PL-1 | WILSONART | STANDARD FINISH LAMINATE | 10745-60 | FONTHILL PEAR | - | COUNTER TOPS | - |
|------|-----------|--------------------------|----------|---------------|---|--------------|---|

#### MISCELLANEOUS

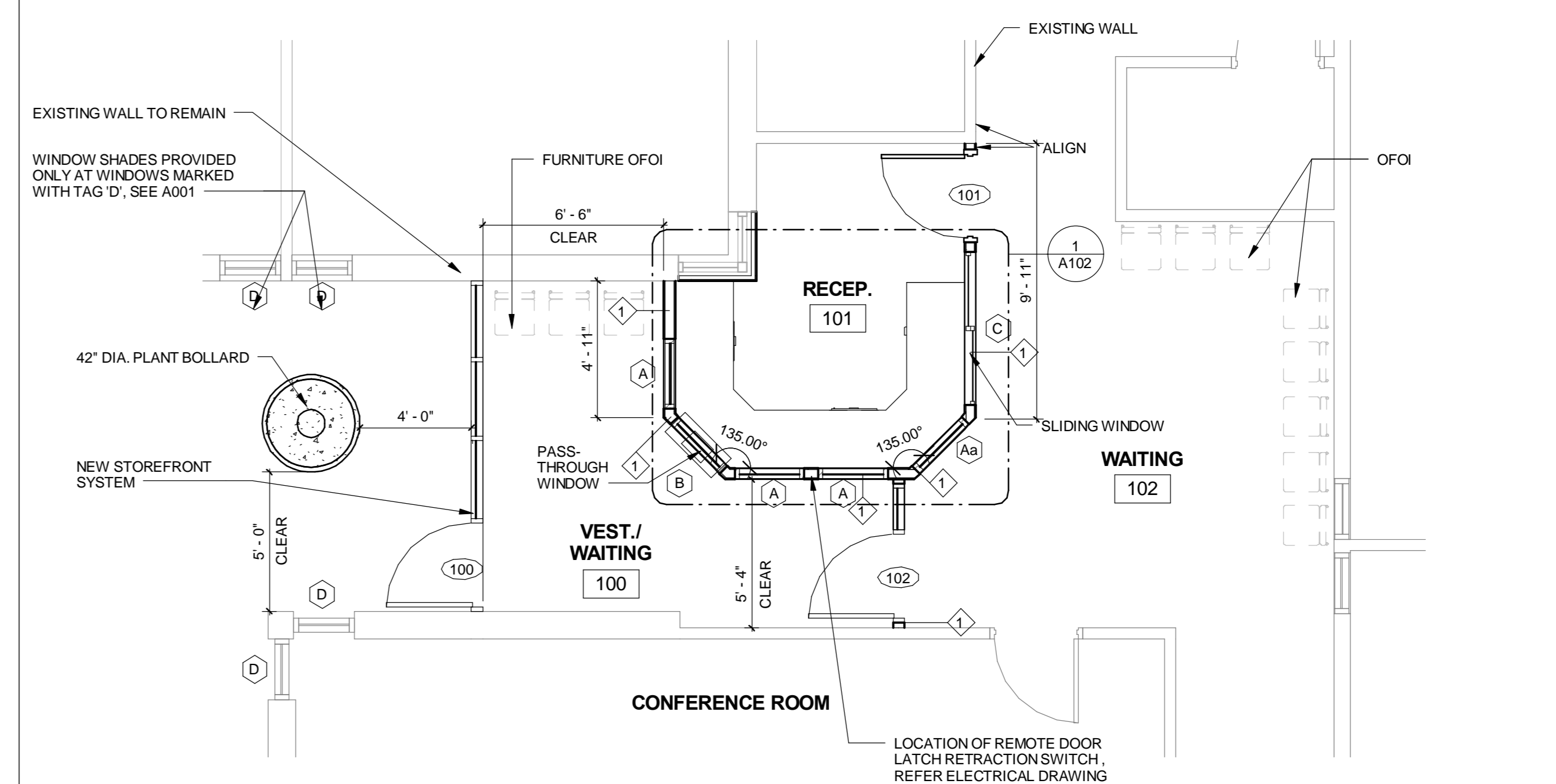
|      |  |                      |  |  |  |  |               |
|------|--|----------------------|--|--|--|--|---------------|
| TR-1 |  | TRANSITION STRIP     |  |  |  |  |               |
| HB-1 |  | FABRIC WINDOW SHADES |  |  |  |  | SPEC 12-24 13 |

#### NOTES

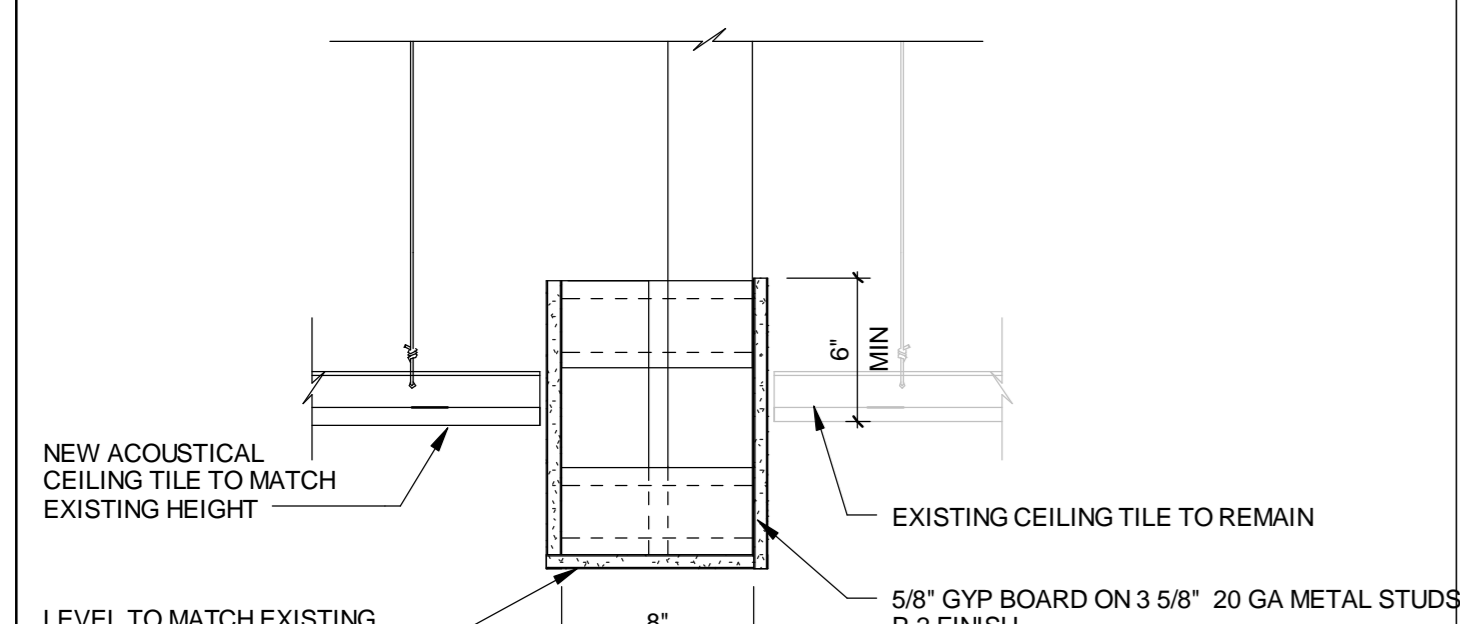
- REFER TO INTERIOR SECTIONS, ELEVATIONS, DETAILS AND REFLECTED CEILING PLAN FOR COORDINATION AND ADDITIONAL INFORMATION (SEE COVER INDEX AND/OR SHEET SERIES)
- ALL INTERIOR FINISHES SHALL COMPLY WITH NCSBC CHAPTER 8, TABLE 803.9, AND SECTION 1210
- 
- PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL TRANSITIONS. STANDARD TRANSITION FROM TILE IS SCHLUTER, AND ALL OTHER MATERIALS IS JOHNSONITE. PROFILE AND COLOR MUST BE SUBMITTED FOR APPROVAL.
- VERIFY AND COORDINATE FINISHES ON SCHEDULE WITH MILLORK DETAILS
- INTERIOR FINISHES COMPLY WITH FBC TABLE 803.5  
 A. EXIT ENCLOSURES AND EXIT PASSAGEWAYS: CLASS B  
 B. CORRIDORS: CLASS B



RECEPTION FINISH FLOOR PLAN 1/4" = 1'-0" 2



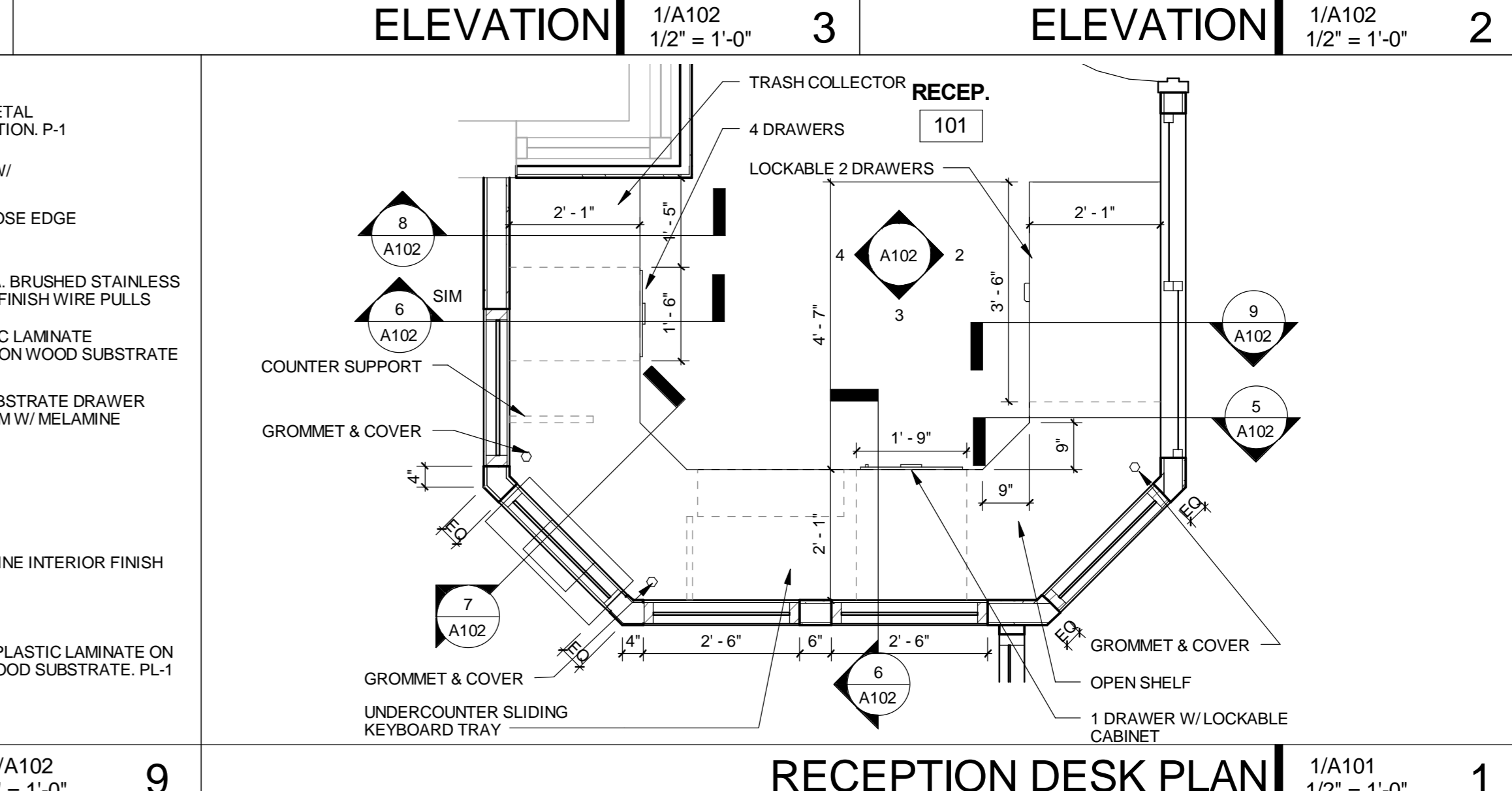
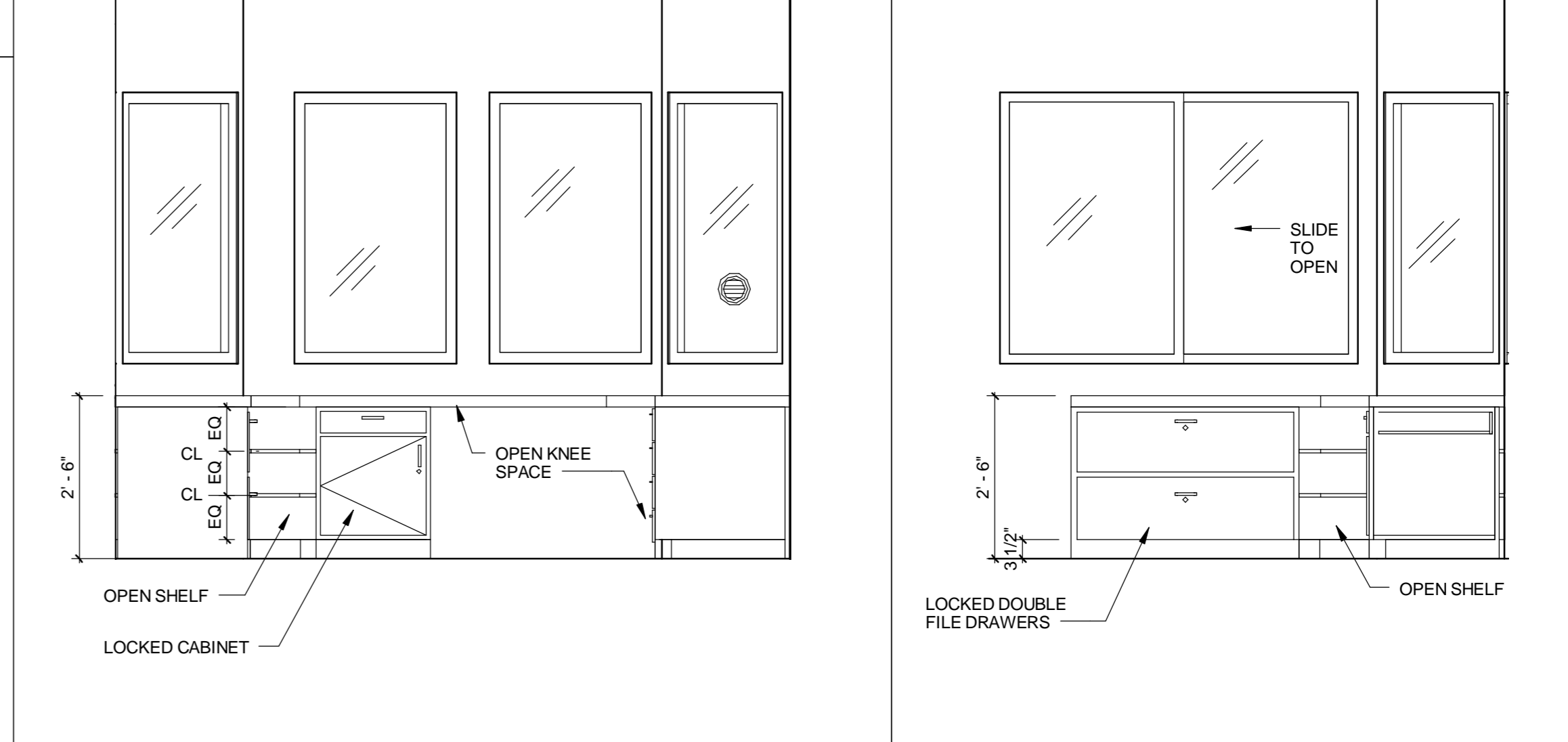
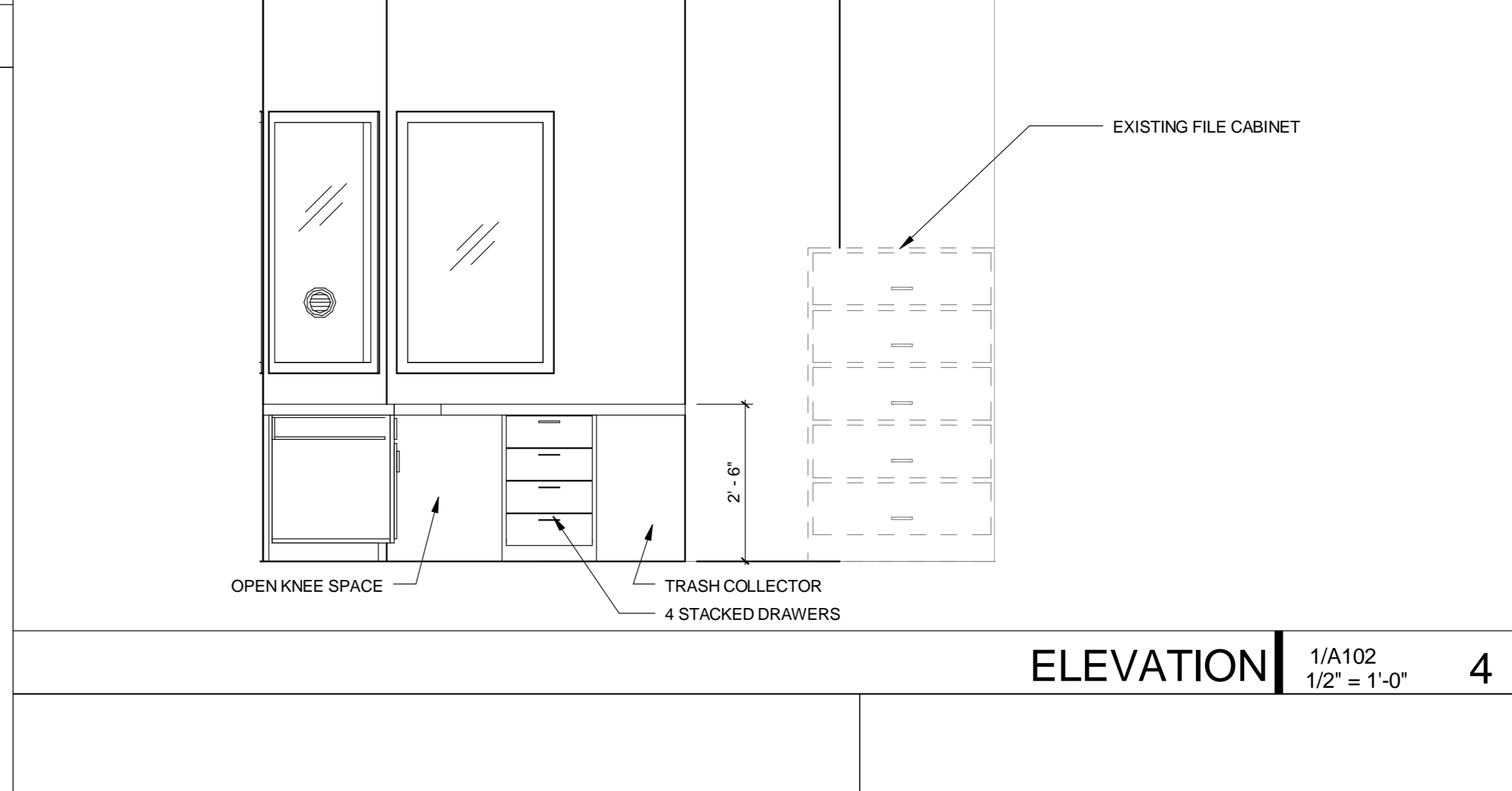
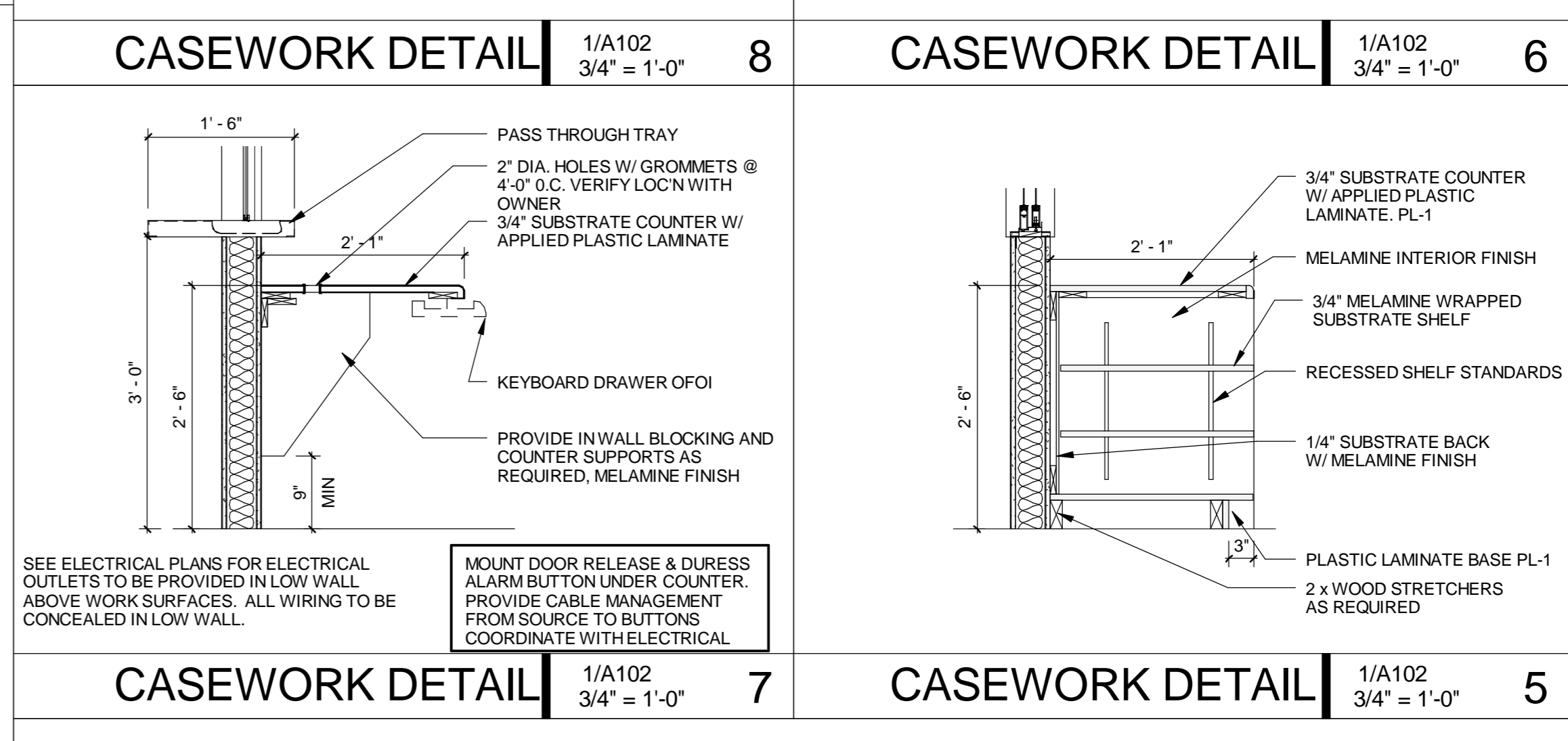
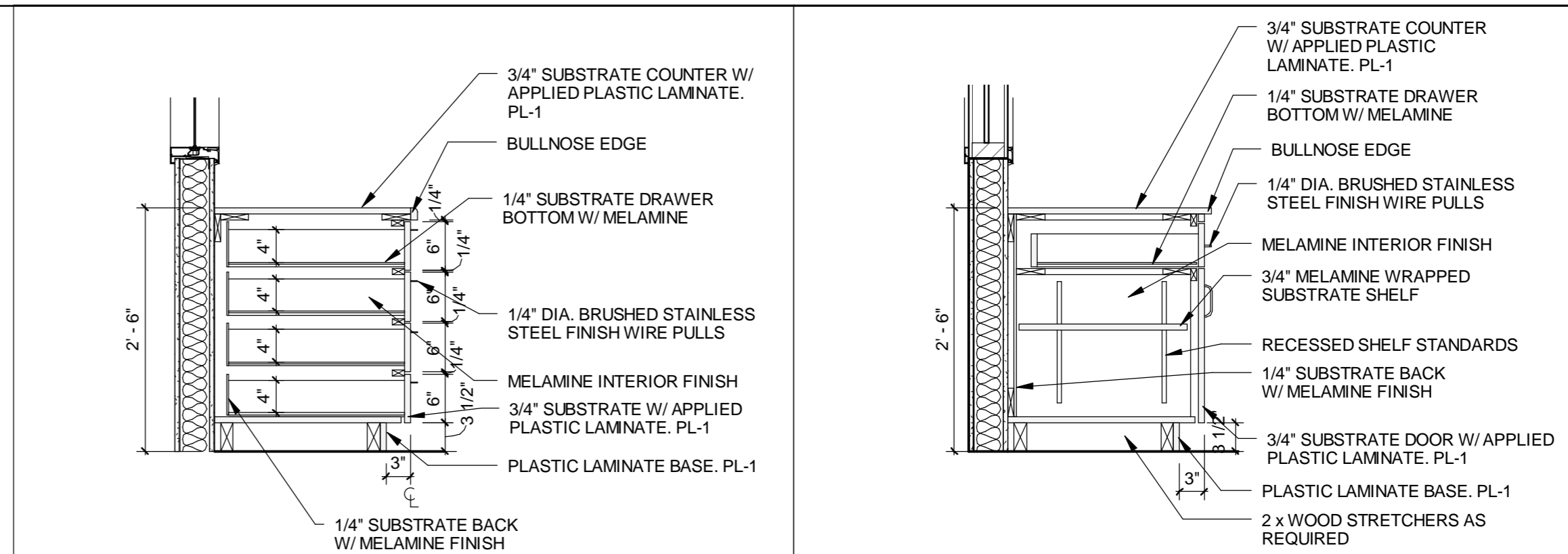
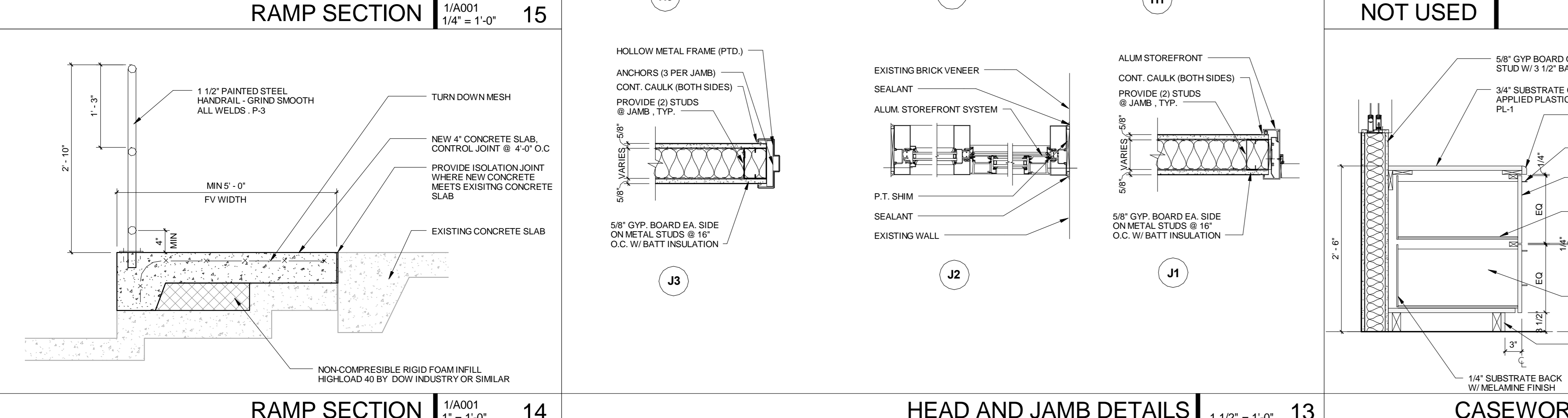
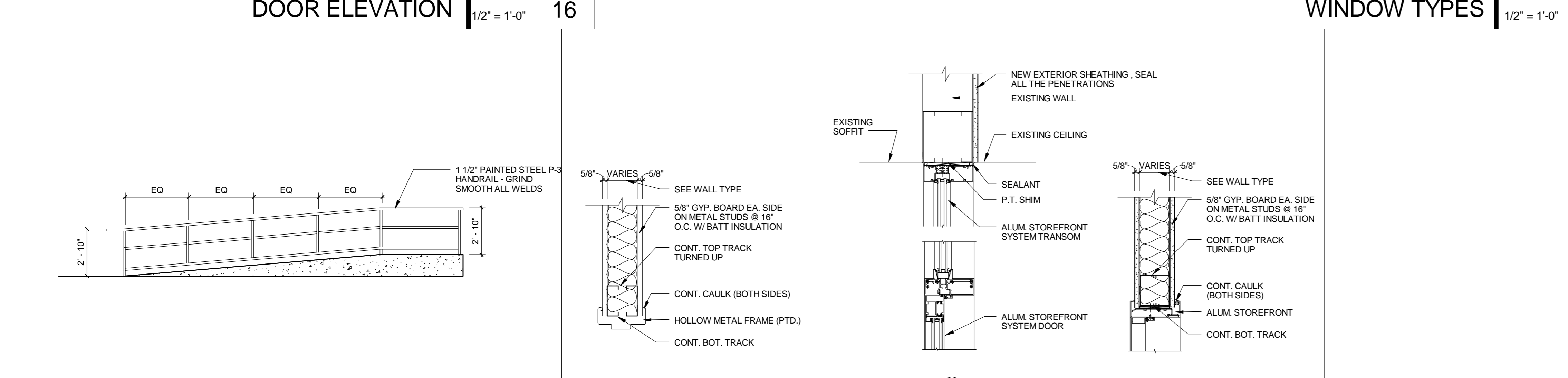
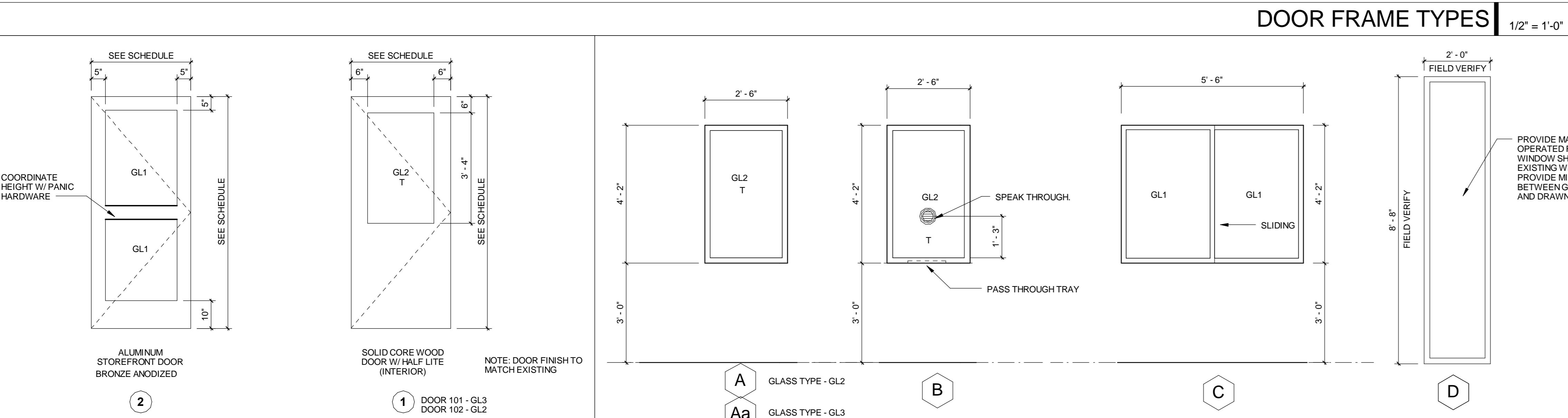
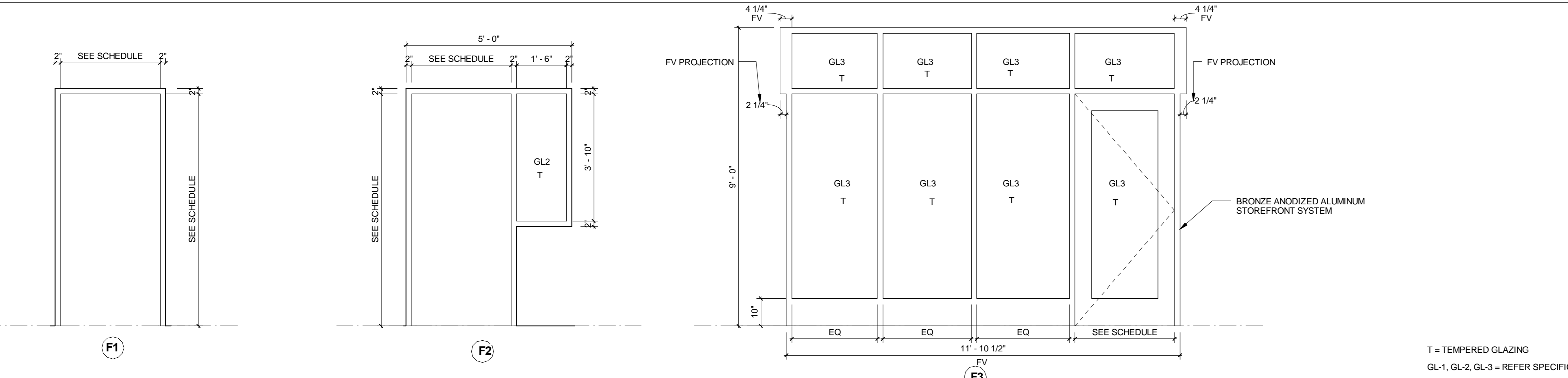
RECEPTION ENLARGED FLOOR PLAN 1/4" = 1'-0" 1



BULK HEAD DETAIL, TYP. 5/A101 1 1/2" = 1'-0" 8



| DOOR # | ROOM NAME     | RATING | ELEVATION | DOOR  |        |           |        |          | FRAME |          |      |      | HARDWARE |        |       | REMARKS |                               |
|--------|---------------|--------|-----------|-------|--------|-----------|--------|----------|-------|----------|------|------|----------|--------|-------|---------|-------------------------------|
|        |               |        |           | SIZE  |        |           | FINISH | MATERIAL | TYPE  | MATERIAL | HEAD | JAMB | SILL     | CLOSER | PANIC |         | SET                           |
|        |               |        |           | WIDTH | HEIGHT | THICKNESS |        |          |       |          |      |      |          |        |       |         |                               |
| 100    | VEST/ WAITING | 1      | 4         | 3'-0" | 7'-0"  | 1 3/4"    | AL     | AL       | F3    | AL       | H2   | J2   |          | Yes    | Yes   | YES     |                               |
| 101    | RECEP.        | 1      | 1         | 3'-0" | 7'-0"  | 1 3/4"    | WD     | WD       | F1    | HM       | H3   | J3   |          | No     | No    | YES     | DOOR FINISH TO MATCH EXISTING |
| 102    | WAITING       | 1      | 2         | 3'-0" | 7'-0"  | 1 3/4"    | AL     | AL       | F2    | AL       | H1   | J1   |          | Yes    | Yes   | YES     | CARD READER, MAGNETIC LOCK    |





DIV 10 OFFICE  
SECURITY  
UPGRADES

716 WEST MAIN STREET  
ALBEMARLE, NC 28001

ELECTRICAL PLANS  
AND DETAILS

DATE: 08-26-16  
PROJECT NO: 16020.00

REVISIONS  
NO: DATE: DESCRIPTION:

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PROFESSIONAL SEAL  
NORTH CAROLINA  
REGISTERED PROFESSIONAL ENGINEER  
SEAL  
19459  
ELECTRICAL ENGINEER  
216.060

8/26/16

SHEET NUMBER

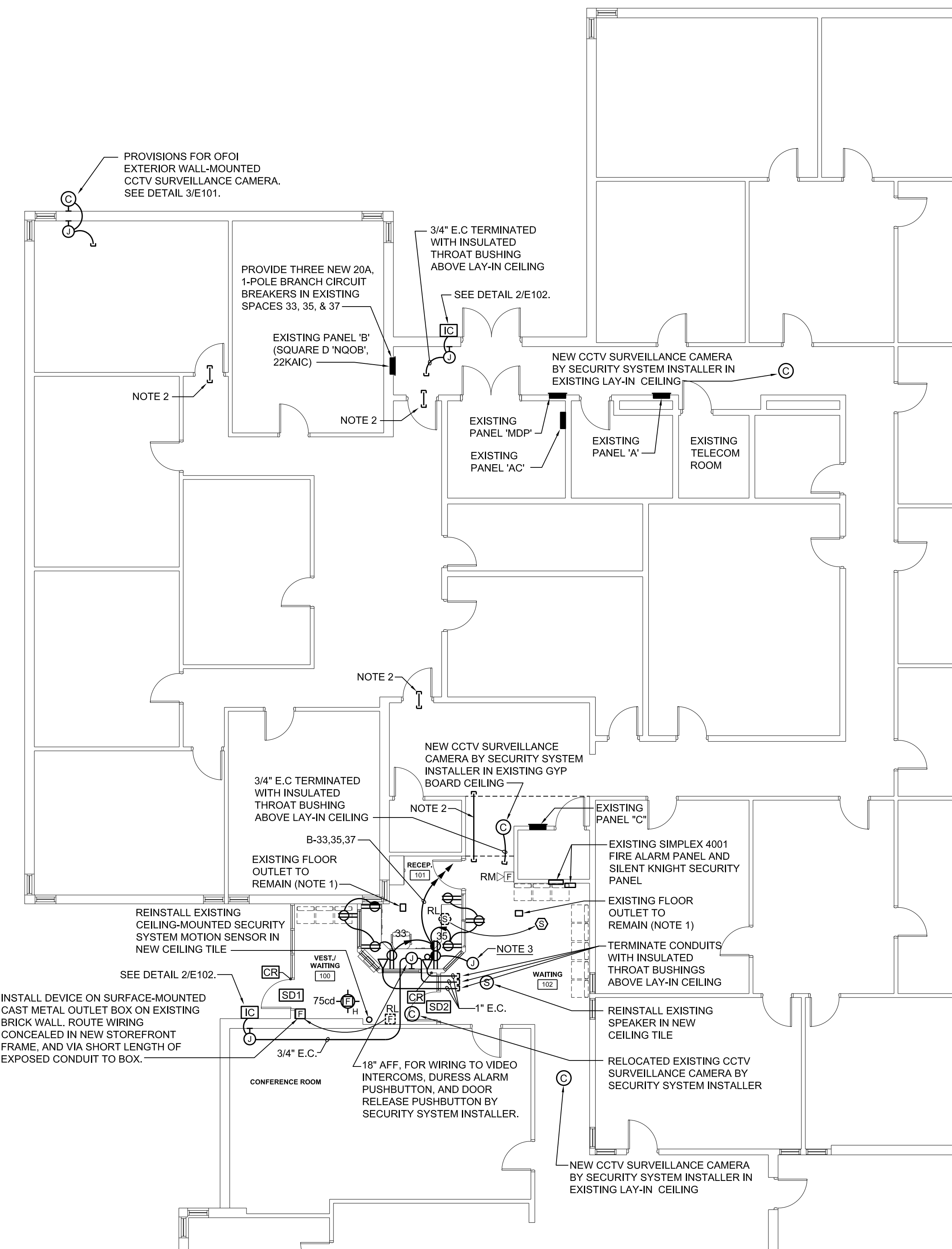
E101

ELECTRICAL SYMBOL LEGEND

| SYMBOL | DESCRIPTION   |
|--------|---|
|        | CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL, UNLESS NOTED OTHERWISE.   |
|        | BRANCH CIRCUIT HOMERUN TO PANEL - WITH PANEL AND CIRCUIT DESIGNATION. ARROWHEADS INDICATE NUMBER OF CIRCUITS.   |
|        | CONDUIT TERMINATED WITH INSULATED THROAT BUSHING.   |
|        | JUNCTION OR PULL BOX. SIZE PER N.E.C.   |
|        | JUNCTION BOX SIZED PER N.E.C., WITH FLEXIBLE METALLIC CONDUIT CONNECTIONS TO FIXTURES AS SHOWN, 6 FOOT LENGTH MAXIMUM.  |
|        | FLUORESCENT LIGHTING FIXTURE. DRAWN APPROXIMATELY TO SCALE. SURFACE OR RECESS MOUNT AS INDICATED OR REQUIRED BY CEILING TYPE. PROVIDE OUTLET BOX TO SUIT CONDITIONS.  |
| RM     | EXISTING FLUORESCENT LIGHTING FIXTURE, TO REMAIN.   |
| RL     | EXISTING FLUORESCENT LIGHTING FIXTURE, TO BE RELOCATED. EXTEND EXISTING BRANCH CIRCUIT TO NEW LOCATION AND RECONNECT.   |
|        | NEW RECESSED EMERGENCY LIGHT - ADJUSTABLE GIMBAL TYPE AS SPECIFIED, WITH LOW-VOLTAGE HALOGEN LAMP, NORMALLY OFF, POWERED BY REMOTE BATTERY PACK. BATTERY PACK SHALL HAVE MAINTENANCE-FREE SEALED BATTERY, CHARGER, TEST SWITCH, READY LIGHT, AND TRANSFER RELAY TO AUTOMATICALLY ENERGIZE EMERGENCY LIGHTS FOR A MINIMUM OF 90 MINUTES UPON LOSS OF POWER TO NORMAL LIGHTING CIRCUIT. BATTERY PACK SHALL BE CONNECTED TO UNSWITCHED LEG OF NORMAL LIGHTING CIRCUIT. |
|        | CEILING MOUNTED EMERGENCY BATTERY LIGHTING UNIT.  |
|        | CEILING MOUNTED LED EXIT SIGN, WITH WHITE THERMOPLASTIC HOUSING, STENCIL FACE, RED LETTERS, EMERGENCY BATTERY BACKUP, SINGLE OR DOUBLE FACE, WITH DIRECTIONAL ARROWS AS INDICATED. SHADDED QUADRANTS INDICATE FACES.  |
|        | BRANCH CIRCUIT OR DISTRIBUTION PANELBOARD AS SCHEDULED.   |
|        | SINGLE POLE SWITCH - 20A, 120-277V, 46" AFF TO CENTER.  |
|        | CEILING-MOUNTED OCCUPANCY SENSOR FOR LIGHTING CONTROL. REFER TO WIRING DIAGRAM 4/E101.  |
|        | CONVENIENCE RECEPTACLE - NEMA 5-20R DUPLEX, HEAVY-DUTY INDUSTRIAL SPECIFICATION GRADE. COLOR TO MATCH EXISTING, WITH #302 STAINLESS STEEL COVER PLATE, SATIN FINISH, MOUNT 18" AFF TO CENTER UNLESS NOTED OTHERWISE.  |
|        | CONVENIENCE RECEPTACLE, SAME AS ABOVE, EXCEPT MOUNT 34" AFF TO CENTER UNLESS NOTED OTHERWISE.   |
|        | COMBINATION DATA AND TELEPHONE OUTLET: 4" SQUARE, OR 2-GANG AS APPLICABLE, DEEP OUTLET BOX WITH SINGLE-GANG PLASTER RING, READY FOR INSTALLATION OF 1-GANG ACTIVATION PLATE. MOUNT 18" AFF TO CENTER UNLESS NOTED OTHERWISE. PROVIDE ONE 1" E.C. WITH PULL CORD TO ABOVE ACCESSIBLE CEILING.  |
|        | COMBINATION DATA AND TELEPHONE OUTLET: SAME AS ABOVE, EXCEPT MOUNT 34" AFF TO CENTER.   |
|        | PROVISIONS FOR ACCESS CONTROL DEVICES AND HARDWARE ON SECURED DOOR. REFER TO DETAIL 1/E102.   |
|        | CCTV SURVEILLANCE CAMERA BY SECURITY SYSTEM INSTALLER. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND BOXES AS INDICATED. CABLING AND ACTIVE EQUIPMENT BY SECURITY SYSTEM INSTALLER. REFER TO DETAIL 3/E101.   |
|        | PROVISIONS FOR CARD READER. REFER TO DETAIL 1/E102.   |
|        | PROVISIONS FOR VIDEO INTERCOM. REFER TO DETAIL 2/E102.  |
|        | CEILING MOUNTED SMOKE DETECTOR.   |
|        | FIRE ALARM MANUAL PULL STATION. MOUNT 48" AFF TO TOP.   |
|        | FIRE ALARM COMBINATION HORN/STROBE APPLIANCE, WALL MOUNT.   |
|        | CEILING MOUNTED FIRE ALARM COMBINATION HORN/STROBE APPLIANCE. SUBSCRIPT INDICATES MINIMUM CANDELA OUTPUT RATING.  |
| AFF    | ABOVE FINISHED FLOOR  |
| C.T.E. | CONNECT TO EXISTING (BRANCH CIRCUIT)  |
| E.C.   | EMPTY CONDUIT, WITH NYLON PULL CORD.  |
| N.E.C. | NATIONAL ELECTRICAL CODE  |
| RL     | INDICATES EXISTING ITEM TO BE RELOCATED.  |
| RM     | INDICATES EXISTING ITEM TO REMAIN.  |
| RV     | INDICATES EXISTING ITEM TO BE REMOVED.  |

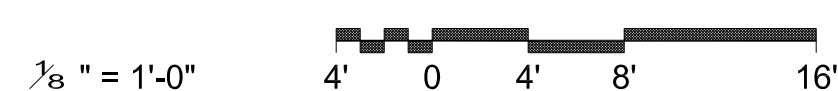
ELECTRICAL GENERAL NOTES

- ELECTRICAL DEVICES AND EQUIPMENT SHALL BE U.L. APPROVED FOR USE WITH CONDUCTORS THAT HAVE INSULATION RATED FOR 75°C OR HIGHER. DERATING OF CONDUCTORS IS NOT ALLOWED.
- ELECTRICAL CONDUCTORS SHALL BE COPPER, THINWALL, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
- MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE #12 AWG. ALL WIRING SHALL BE IN CONDUIT. MINIMUM ACCEPTABLE CONDUIT SIZE SHALL BE 1/2". USE EMT FOR CONCEALED WORK IN DRY LOCATIONS. USE IMC OR RIGID GALVANIZED STEEL CONDUIT FOR EXPOSED WORK AND IN DAMP OR WET LOCATIONS. CONDUIT SHALL NOT BE RUN EXPOSED, EXCEPT WHERE SPECIFICALLY NOTED. MC CABLE IS NOT ALLOWED AS A WIRING METHOD, EXCEPT WHERE CIRCUITS ARE REQUIRED TO BE FISHED THROUGH CAVITIES OF EXISTING WALLS AND ABOVE EXISTING INACCESSIBLE CEILING.
- AN INDIVIDUAL GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED WITH EACH 120-VOLT OR HIGHER VOLTAGE CIRCUIT. SIZE CONDUCTOR AS SHOWN, OR, IF SIZE IS NOT GIVEN, PER NEC TABLES 250.122 AND 250.66. AS APPLICABLE. GROUNDING CONDUCTOR SHALL BE BONDED TO EACH METALLIC CONDUIT, EACH OUTLET BOX, AND TO TERMINATION EQUIPMENT.
- PROVIDE CONDUITS AS SPECIFIED FOR ALL POWER CIRCUITS, SIZED PER NEC, NOT TO EXCEED 40% FILL. RUN CONDUITS AS HIGH AS POSSIBLE, CONCEALED IN WALLS, AND ABOVE CEILING TO MAXIMUM EXTENT FEASIBLE. COORDINATE ROUTING OF CONDUITS WITH OTHER TRADES TO AVOID CONFLICTS.
- ALL WALL OUTLETS SHALL BE LOCATED CAREFULLY TO ASSURE CORRECT MOUNTING HEIGHT AND ALIGNMENT. DEVICE PLATES SHALL BE INSTALLED LEVEL, PLUMB, AND FLUSH AGAINST WALL, WITH EDGES ALIGNED WITH NEIGHBORING DEVICE PLATES. OUTLETS INSTALLED IN A CARELESS OR HAPHAZARD MANNER SHALL BE REMOVED AND REINSTALLED PROPERLY TO THE SATISFACTION OF THE A-E, AND AT THE CONTRACTOR'S EXPENSE.
- ALL WORK SHALL COMPLY WITH 2014 NEC.
- ALL EQUIPMENT, FIXTURES AND MATERIALS USED IN THIS PROJECT SHALL BE LISTED BY AN INDEPENDENT TESTING LABORATORY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL NON-ENERGIZED CONDUCTIVE SURFACES OF MATERIALS THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE BONDED TO INSULATED GROUNDING CONDUCTOR RUN WITH PHASE CONDUCTORS.
- ALL DATA TELEPHONE EQUIPMENT SHALL HAVE THEIR CONDUIT ROUTED TO ACCESSIBLE CEILING, WITH A MAXIMUM OF TWO 90 DEGREE BENDS PLUS A 22 DEGREE KICKOUT IF REQUIRED WHERE CONDUITS ARE ROUTED THROUGH A NON-RATED WALL THAT EXTENDS TO STRUCTURE ABOVE.
- EACH 120 VOLT AND 277 VOLT BRANCH CIRCUIT SHALL BE PROVIDED WITH A SEPARATE, DEDICATED NEUTRAL CONDUCTOR WHETHER CIRCUIT IS RUN SINGLY OR GROUPED IN CONDUIT WITH OTHER CIRCUITS. NO MORE THAN THREE 120 VOLT OR 277 VOLT CIRCUITS MAY BE RUN TOGETHER IN A SINGLE CONDUIT.
- CONDUIT PENETRATION OF RATED WALLS SHALL BE FIRE-SEALED, USING SUITABLE UL-APPROVED METHOD.
- ELECTRICAL CIRCUITING SHOWN ON THESE DRAWINGS IS DIAGRAMMATIC AND IS NOT INTENDED TO DEPICT ACTUAL CONDUIT ROUTES.
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.



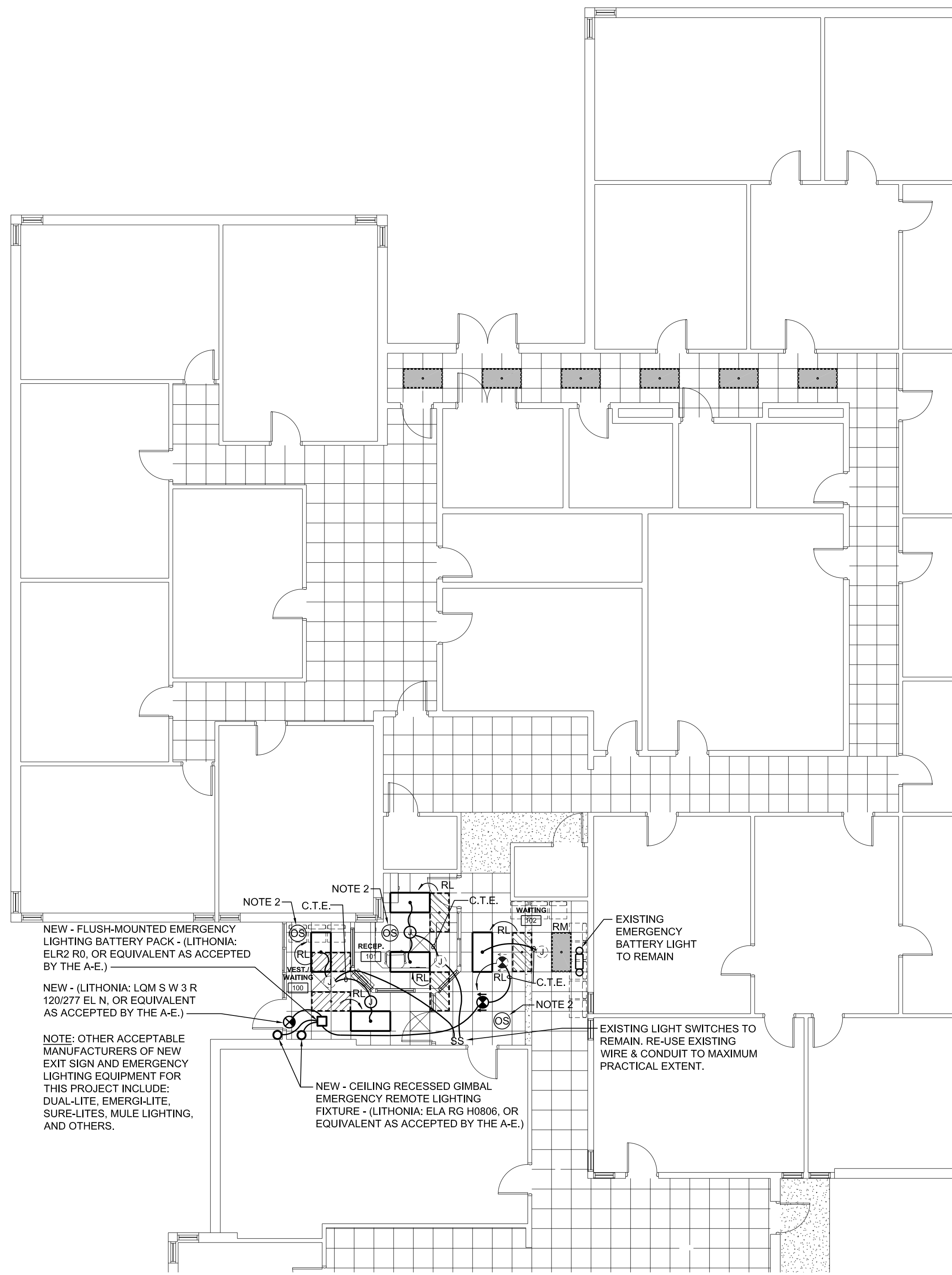
1 FLOOR PLAN - POWER & SPECIAL SYSTEMS

SCALE: 1/8"=1'-0"



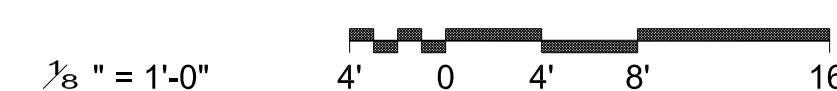
NOTES:

- EXISTING ITEMS NOTED TO REMAIN SHALL BE CLEANED AND REPAIRED AS NECESSARY, AND ADJUSTED TO SEAT PROPERLY IN NEW FLOOR, WALL, OR CEILING FINISHES.
- PROVIDE 1/4" CONDUIT SLEEVES THROUGH WALL, ABOVE CEILING, AS NECESSARY FOR SECURITY SYSTEM CABLING. BUSH BOTH ENDS.
- PROVIDE 120 VOLT POWER CONNECTION TO LOW VOLTAGE POWER SUPPLY FURNISHED BY SECURITY SYSTEM INSTALLER FOR ACCESS CONTROL DEVICES, LOCATED ABOVE LAY-IN CEILING OF WAITING 102.
- REFER TO ARCHITECTURAL DRAWING A101 FOR DEMOLITION PLAN AND NOTES.
- ALL SECURITY SYSTEM HEAD-END EQUIPMENT, CABLING AND CONNECTIONS SHALL BE PROVIDED BY OWNER.



2 FLOOR PLAN - LIGHTING

SCALE: 1/8"=1'-0"

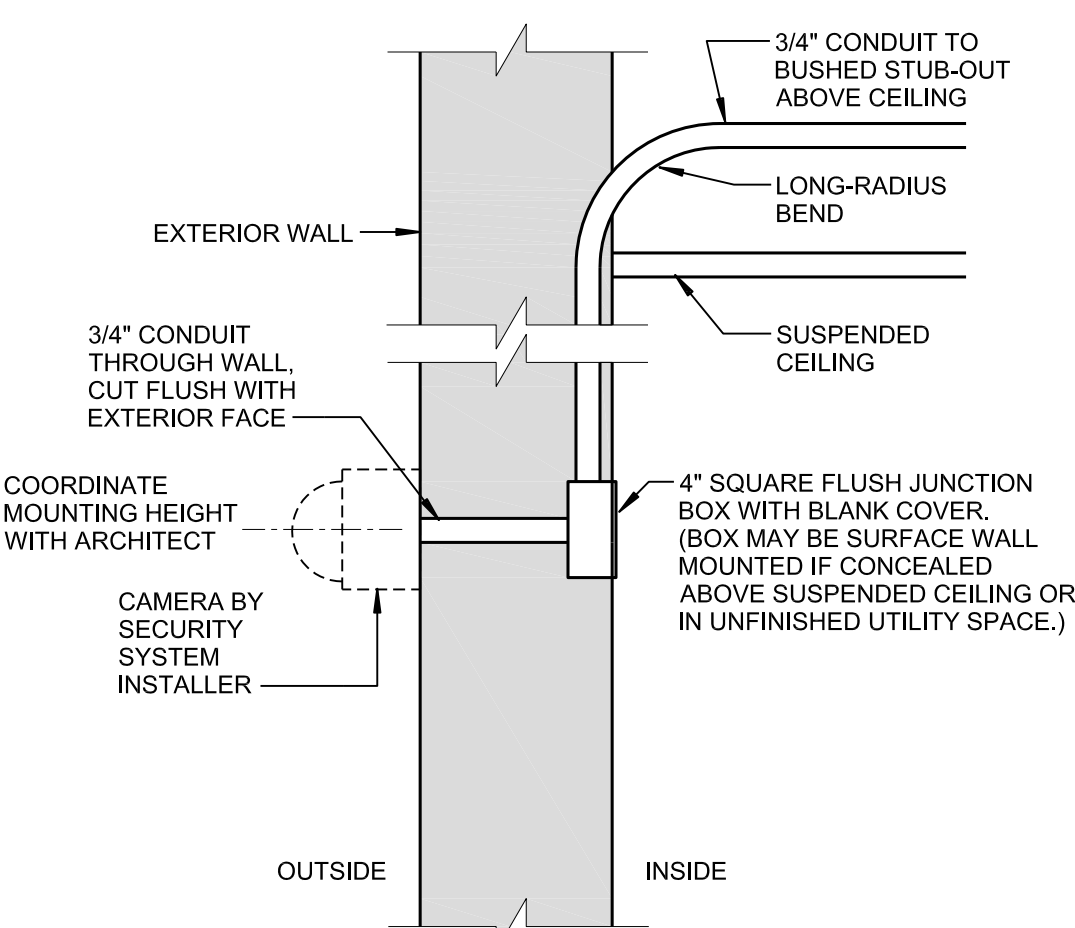


NOTES:

- EXISTING ITEMS NOTED TO REMAIN OR BE RELOCATED SHALL BE CLEANED AND REPAIRED AS NECESSARY, AND ADJUSTED TO SEAT PROPERLY IN NEW FLOOR, WALL, OR CEILING FINISHES.
- CONNECT NEW OCCUPANCY SENSORS TO CONTROL LIGHTING CIRCUITS. REFER TO WIRING DIAGRAM 4/E101.
- REFER TO ARCHITECTURAL DRAWING A101 FOR DEMOLITION PLAN AND NOTES.

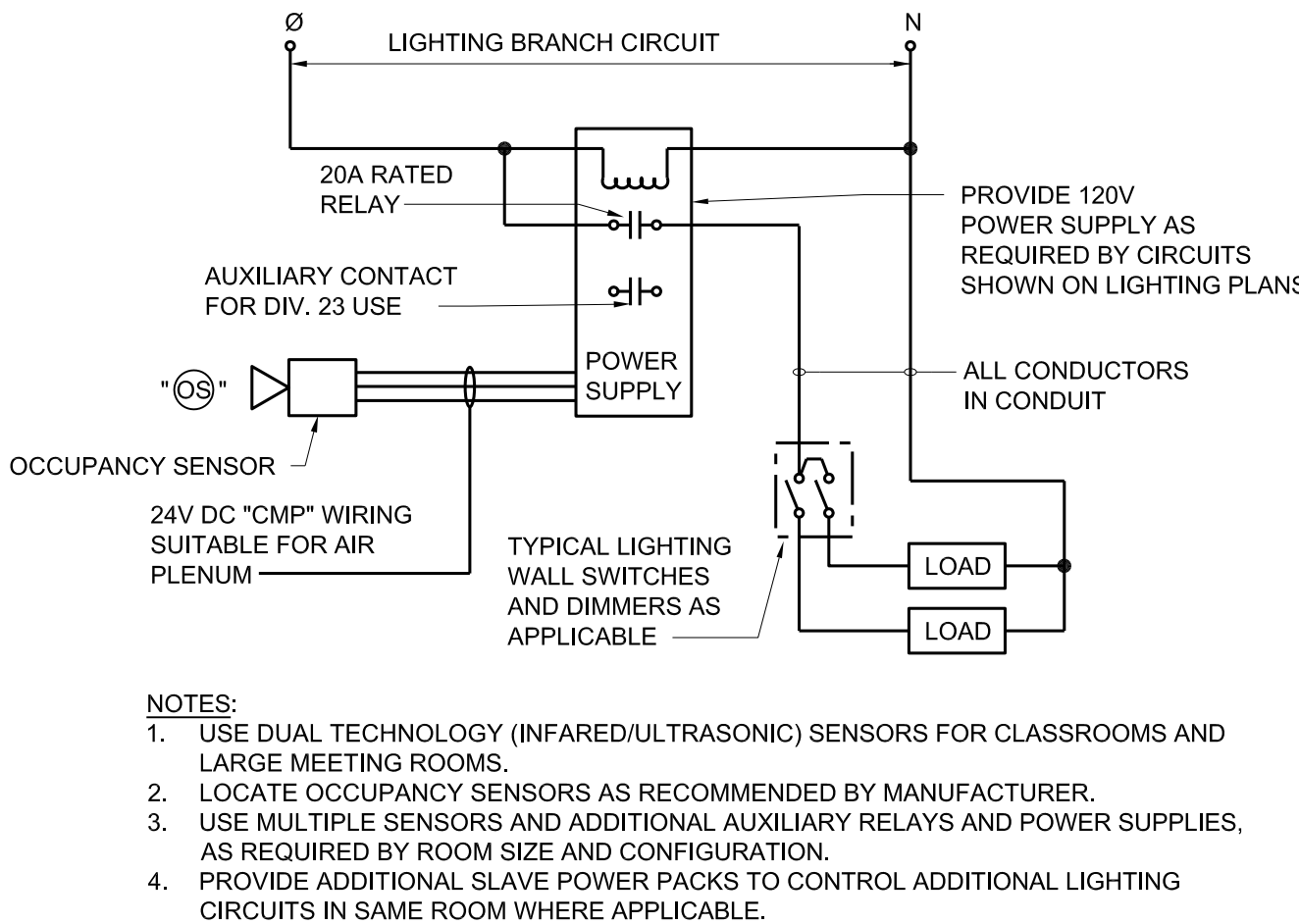
3 DETAIL - PROVISIONS FOR WALL-MOUNTED CCTV CAMERA

NOT TO SCALE



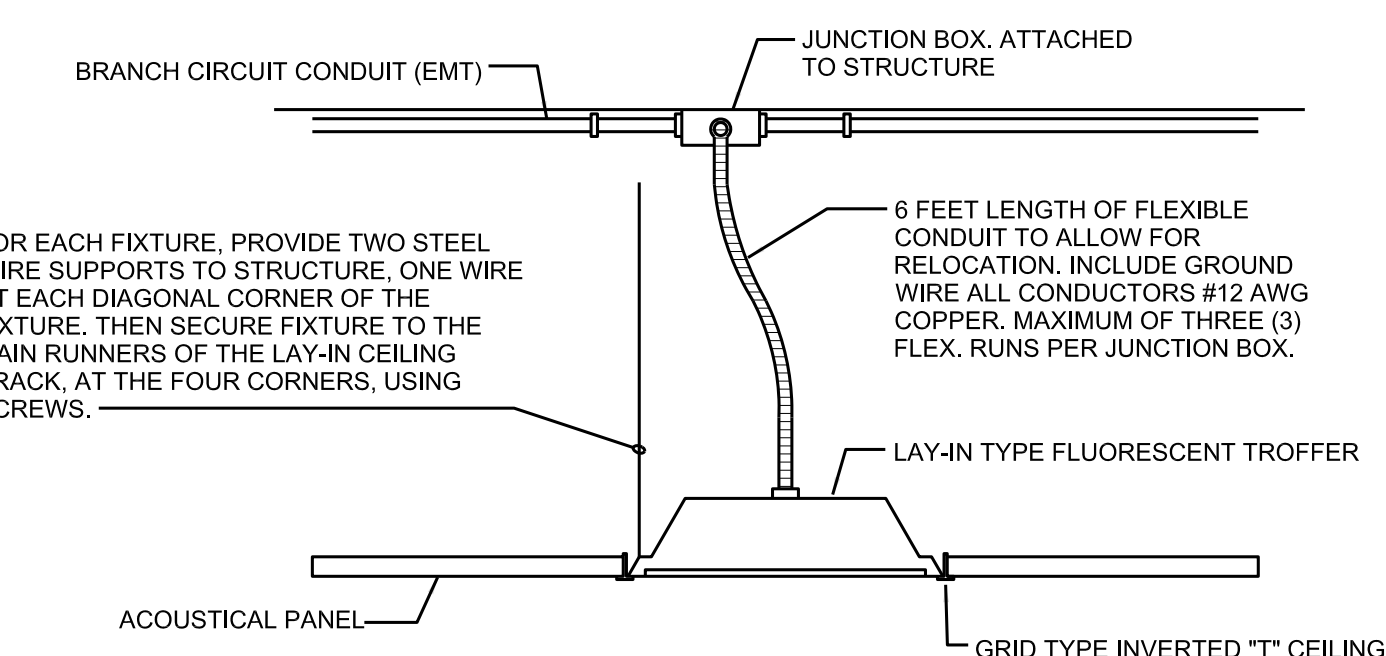
4 TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM

NOT TO SCALE



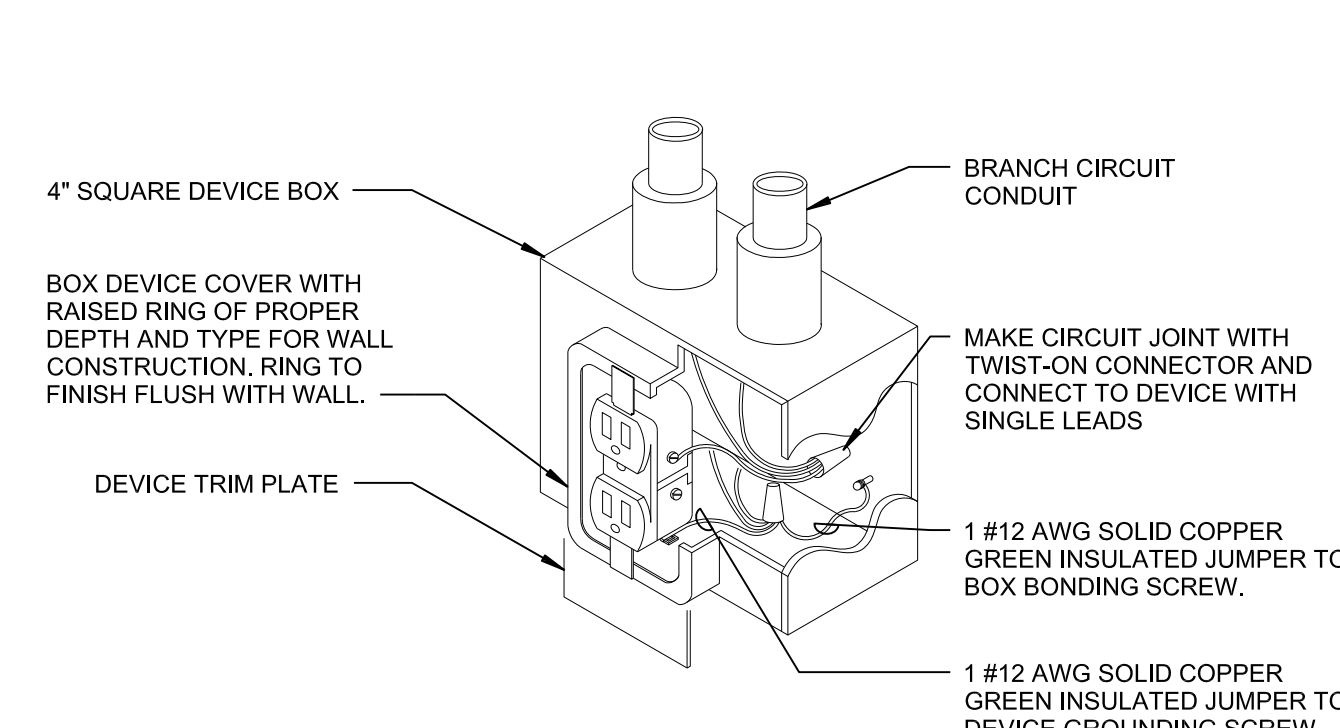
5 DETAIL - TYPICAL FLUORESCENT TROFFER MOUNTING

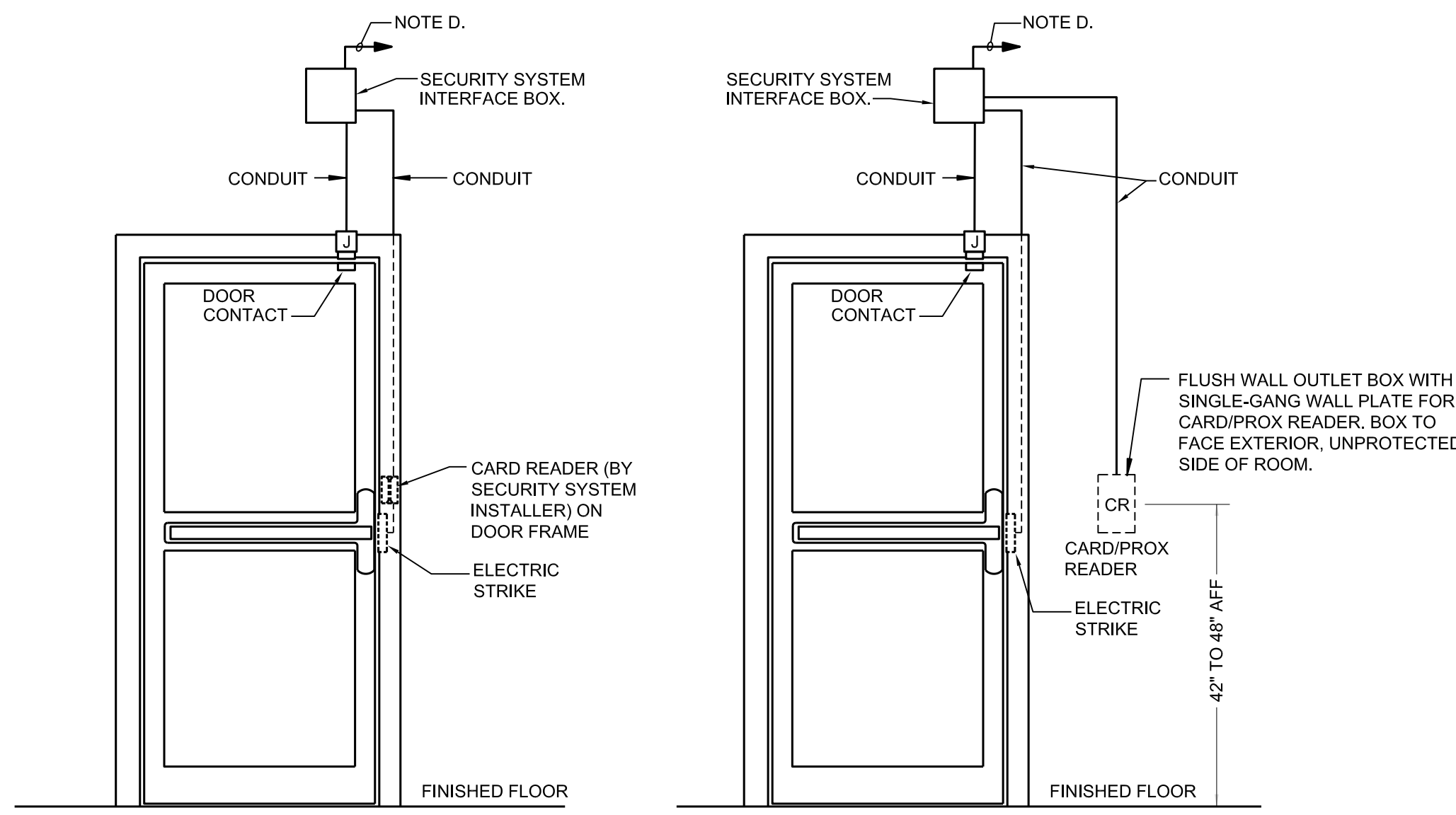
NOT TO SCALE



6 DETAIL - RECEPTACLE GROUNDING

NOT TO SCALE



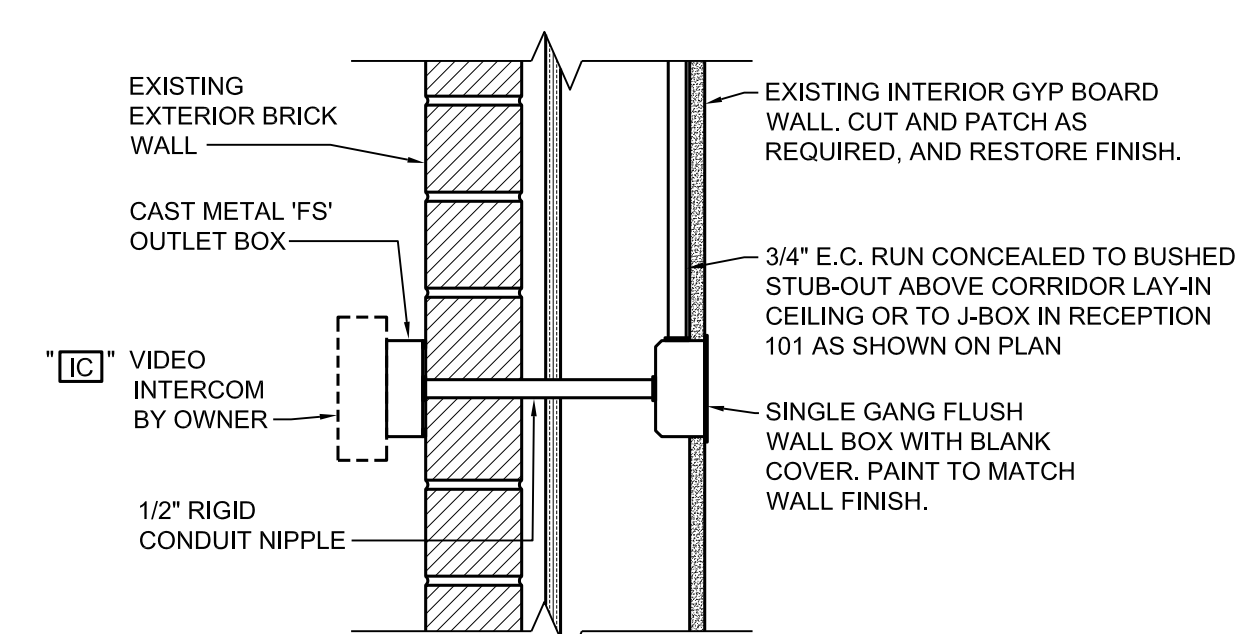


ELEVATION OF PROTECTED SIDE, EXCEPT AS NOTED  
**DOOR TYPE "SD1"**      **DOOR TYPE "SD2"**

**1 DETAIL - ACCESS CONTROL PROVISIONS FOR SECURED DOORS**  
NOT TO SCALE

**GENERAL NOTES FOR SECURITY PROVISIONS**

- A. ALL CONDUIT AND BOXES REQUIRED FOR INSTALLATION OF SECURITY SYSTEM, AND ALL 120V CIRCUITS REQUIRED FOR SECURITY SYSTEM COMPONENTS SHALL BE PROVIDED UNDER DIVISION 26 - ELECTRICAL. ALL SYSTEM HEAD-END EQUIPMENT, CABLING, AND CONNECTIONS SHALL BE BY OWNER.
- B. TYPICALLY, SECURITY SYSTEM INSTALLER WILL RUN SECURITY WIRING CONCEALED IN WALLS OR ABOVE CEILING. WIRING ABOVE ACCESSIBLE CEILING WILL BE RUN ON J-HOOKS OR IN CABLE TRAY. WIRING ABOVE INACCESSIBLE CEILING, OR IN AREAS WITHOUT CEILING (OTHER THAN IN TELECOM CLOSETS), OR WHEN SURFACE INSTALLATION IS REQUIRED, SHALL BE RUN IN CONDUIT PROVIDED UNDER DIVISION 26 - ELECTRICAL.
- C. CONDUIT SHALL BE CONCEALED ABOVE THE CEILING OR IN WALLS AND SHALL BE PROVIDED WITH PULL CORDS. CONDUIT SHALL BE AS REQUIRED BY CODE, 1/2-INCH MINIMUM, EXCEPT AS OTHERWISE NOTED.
- D. PROVIDE 3/4" CONDUIT WITH PULL CORD FROM SECURITY SYSTEM INTERFACE BOX TO ACCESSIBLE LOCATION ABOVE CEILING TO FACILITATE RUNNING SECURITY SYSTEM CABLES.
- E. EQUIPMENT SUCH AS POWER SUPPLIES AND INTERFACE BOXES WILL BE LOCATED ABOVE ACCESSIBLE CEILING OR ADJACENT TO CEILING ACCESS PANELS WHEN CEILING IS NOT ACCESSIBLE. ANY ELECTRICAL MATERIALS OR CONTROLS, SUCH AS BOXES AND FIRE ALARM INTERFACE MODULES, SHALL ALSO BE LOCATED SO THAT THEY ARE ACCESSIBLE.
- F. REFER TO FLOOR PLANS AND SECURITY SYSTEM DRAWINGS FOR LOCATIONS OF CARD READERS WITH RESPECT TO DOORS. SEE NOTES H AND I.
- G. SEE POWER PLANS FOR 120 VOLT CIRCUITS.
- H. PRIOR TO RUNNING ANY CONDUIT, COORDINATE WITH SECURITY ITEMS / DOOR HARDWARE SUPPLIER TO CONFIRM VALIDITY OF DIAGRAMS AND CONDUIT ROUTING SHOWN HERE.
- I. TYPICAL DOOR DETAIL ELEVATIONS SHOWN ARE ONLY INTENDED TO PROVIDE ENOUGH INFORMATION TO BID THE PROJECT. CONTRACTOR IS TO PROVIDE, AS PART OF THE CONTRACT, RACEWAY AND BOXES AT SPECIFIC LOCATIONS FOR EACH SECURED DOOR AS DIRECTED BY DOOR HARDWARE AND SECURITY SYSTEM INSTALLERS.



EXISTING EXTERIOR BRICK WALL      EXISTING INTERIOR GYP BOARD WALL, CUT AND PATCH AS REQUIRED, AND RESTORE FINISH.  
CAST METAL 'FS' OUTLET BOX      3/4" E.C. RUN CONCEALED TO BUSHED STUB-OUT ABOVE CORRIDOR LAY-IN CEILING OR TO JBOX IN RECEPTION 101 AS SHOWN ON PLAN  
VIDEO INTERCOM BY OWNER      SINGLE GANG FLUSH WALL BOX WITH BLANK COVER, PAINT TO MATCH WALL FINISH.  
1/2" RIGID CONDUIT NIPPLE

**2 DETAIL - PROVISIONS FOR VIDEO INTERCOM**  
NOT TO SCALE

NOTE: EXTERIOR CAST OUTLET BOX MAY BE OMITTED IF THE FURNISHED VIDEO INTERCOM DOES NOT REQUIRE IT. MOUNTING HEIGHT SHALL BE 48" AFF TO CENTER. SEAL WALL PENETRATION WEATHERTIGHT WITH SILICONE SEALANT.

| LOAD (KVA) |     |     |     | DESCRIPTION        |    |    |    | WIRE |      |      |      | BRKR |      |      |      | CKT. NO. |     |      |     |
|------------|-----|-----|-----|--------------------|----|----|----|------|------|------|------|------|------|------|------|----------|-----|------|-----|
| A          | B   | C   |     | A                  | B  | C  |    | SIZE | SIZE | SIZE | SIZE | RATG | RATG | RATG | RATG | NO.      | NO. | NO.  | NO. |
| 1.2        |     |     |     | LIGHTS ROOM 129    | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 1        | 2   | 20/1 | EX  |
|            | 1.2 |     |     | LIGHTS ROOM 130    | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 3        | 4   | 20/1 | EX  |
|            |     | 1.2 |     | LIGHTS ROOM 131    | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 5        | 6   | 20/1 | EX  |
|            |     |     | 1.2 | LIGHTS ROOM 132    | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 7        | 8   | 20/1 | EX  |
|            |     |     |     | LIGHTS ROOM 133    | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 9        | 10  | 20/1 | EX  |
|            |     |     |     | LIGHTS ROOM 134    | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 11       | 12  | 20/1 | EX  |
| 1.0        |     |     |     | UNKNOWN            | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 13       | 14  | 20/1 | EX  |
|            | 1.0 |     |     | UNKNOWN            | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 15       | 16  | 20/1 | EX  |
|            |     |     | 1.0 | UNKNOWN            | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 17       | 18  | 20/1 | EX  |
|            |     |     |     | RECEPT ROOM 129    | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 19       | 20  | 20/1 | EX  |
| 1.1        |     |     |     | RECEPT RMS 130,131 | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 21       | 22  | 20/1 | EX  |
|            | 1.1 |     |     | RECEPT FILE STOR   | EX | EX | EX | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 23       | 24  | 20/1 | EX  |
|            |     |     | 0.0 | S.O.               | -  | -  | -  | -    | -    | -    | -    | -    | -    | -    | -    | 25       | 26  | 20/1 | EX  |
|            |     |     | 0.0 | S.O.               | -  | -  | -  | -    | -    | -    | -    | -    | -    | -    | -    | 27       | 28  | -    | -   |
|            |     |     | 3.0 | UNKNOWN            | EX | EX | EX | 40/2 | EX   | EX   | EX   | 40/2 | EX   | EX   | EX   | 29       | 30  | 20/1 | EX  |
| 3.0        |     |     |     | S.O.               | -  | -  | -  | -    | -    | -    | -    | -    | -    | -    | -    | 31       | 32  | -    | -   |
|            | 0.0 |     |     | S.O.               | -  | -  | -  | -    | -    | -    | -    | -    | -    | -    | -    | 33       | 34  | -    | -   |
|            |     |     | 0.0 | S.O.               | -  | -  | -  | -    | -    | -    | -    | -    | -    | -    | -    | 35       | 36  | -    | -   |
|            |     |     | 0.0 | S.O.               | -  | -  | -  | -    | -    | -    | -    | -    | -    | -    | -    | 37       | 38  | -    | -   |
|            |     |     | 0.0 | S.O.               | -  | -  | -  | -    | -    | -    | -    | -    | -    | -    | -    | 39       | 40  | -    | -   |
|            |     |     | 0.0 | S.O.               | -  | -  | -  | -    | -    | -    | -    | -    | -    | -    | -    | 41       | 42  | -    | -   |

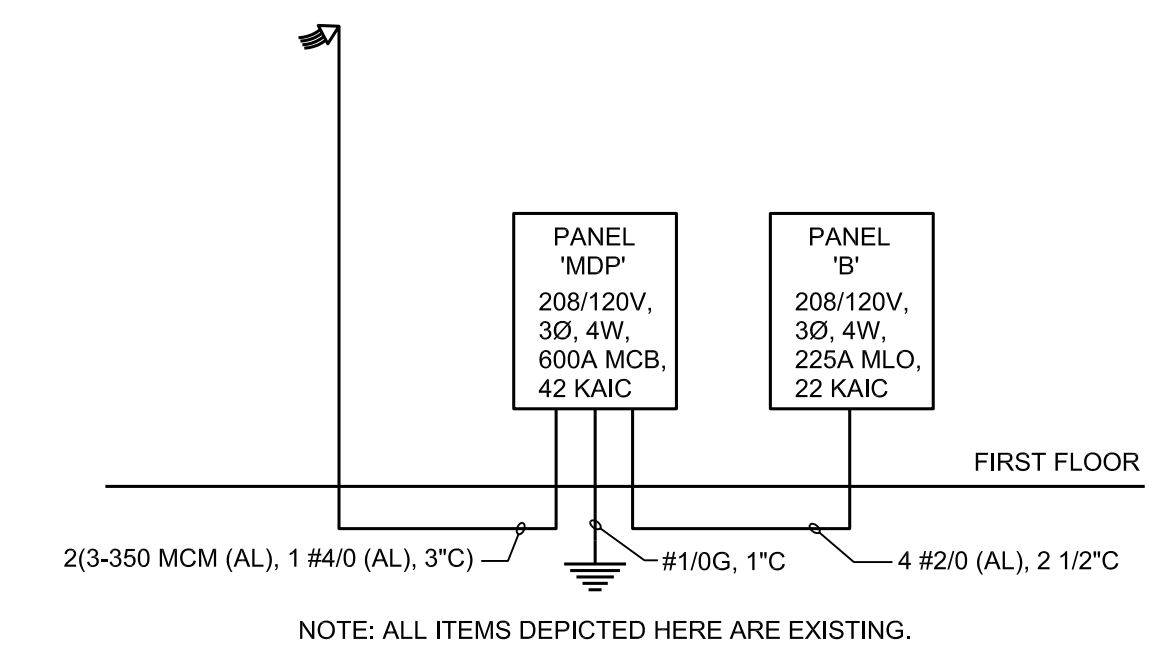
TYPE: BRANCH CIRCUIT MOUNTING: FLUSH SUPPLY: 208/120V, 3PH, 4W MAINS: 225 AMP MAIN LUGS ONLY SCIR: 22,000 AMPERES  
GROSS PHASE TOTALS A= 12.8 KVA B= 8.2 KVA C= 13.2 KVA  
CONNECTED LOAD CURRENT: 95 AMPERES  
LIGHTING 17.9 KVA HEATING 0.0 KVA AC & HEAT PUMPS 0.0 KVA AIR HANDLING & EXH FANS 0.0 KVA RECEPTACLES 10.3 KVA ELECTRIC WATER HEATING 0.0 KVA ELEVATORS 0.0 KVA FOOD PROCESSING 0.0 KVA PROCESS 0.0 KVA MISCELLANEOUS 6.0 KVA  
TOTAL CONNECTED LOAD 34.2 KVA

| LOAD (KVA) |     |     |     | DESCRIPTION        |      |    |    | COND     |       |       |       | GRND |      |      |      | WIRE |      |      |      | BRKR |     |      |     | CKT. NO. |      |     |     |
|------------|-----|-----|-----|--------------------|------|----|----|----------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-----|------|-----|----------|------|-----|-----|
| A          | B   | C   |     | A                  | B    | C  |    | (IN.)    | (IN.) | (IN.) | (IN.) | SIZE | SIZE | SIZE | SIZE | RATG | RATG | RATG | RATG | NO.  | NO. | NO.  | NO. | NO.      | NO.  | NO. | NO. |
| 1.2        |     |     |     | LIGHTS ROOM 129    | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 1    | 2   | 20/1 | EX  | 2        | 20/1 | EX  | EX  |
|            | 1.2 |     |     | LIGHTS ROOM 130    | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 3    | 4   | 20/1 | EX  | 4        | 20/1 | EX  | EX  |
|            |     | 1.2 |     | LIGHTS ROOM 131    | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 5    | 6   | 20/1 | EX  | 6        | 20/1 | EX  | EX  |
|            |     |     | 1.2 | LIGHTS ROOM 132    | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 7    | 8   | 20/1 | EX  | 8        | 20/1 | EX  | EX  |
|            |     |     |     | LIGHTS ROOM 133    | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 9    | 10  | 20/1 | EX  | 10       | 20/1 | EX  | EX  |
|            |     |     |     | LIGHTS ROOM 134    | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 11   | 12  | 20/1 | EX  | 12       | 20/1 | EX  | EX  |
| 1.0        |     |     |     | UNKNOWN            | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 13   | 14  | 20/1 | EX  | 14       | 20/1 | EX  | EX  |
|            | 1.0 |     |     | UNKNOWN            | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 15   | 16  | 20/1 | EX  | 16       | 20/1 | EX  | EX  |
|            |     |     | 1.0 | UNKNOWN            | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 17   | 18  | 20/1 | EX  | 18       | 20/1 | EX  | EX  |
|            |     |     |     | RECEPT ROOM 129    | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 19   | 20  | 20/1 | EX  | 20       | 20/1 | EX  | EX  |
| 1.1        |     |     |     | RECEPT RMS 130,131 | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 21   | 22  | 20/1 | EX  | 22       | 20/1 | EX  | EX  |
|            | 1.1 |     |     | RECEPT FILE STOR   | EX   | EX | EX | 20/1     | EX    | EX    | EX    | 20/1 | EX   | EX   | EX   | 20/1 | EX   | EX   | EX   | 23   | 24  | 20/1 | EX  | 24       | 20/1 | EX  | EX  |
|            |     |     | 0.0 | S.O.               | -    | -  | -  | -        | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | 25   | 26  | 20/1 | EX  | 26       | 20/1 | EX  | EX  |
|            |     |     | 0.0 | S.O.               | -    | -  | -  | -        | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | 27   | 28  | -    | -   | 28       | -    | -   | -   |
|            |     |     | 3.0 | UNKNOWN            | EX   | EX | EX | 40/2     | EX    | EX    | EX    | 40/2 | EX   | EX   | EX   | 40/2 | EX   | EX   | EX   | 29   | 30  | 20/1 | EX  | 30       | 20/1 | EX  | EX  |
| 3.0        |     |     |     | S.O.               | -    | -  | -  | -        | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | 31   | 32  | -    | -   | 32       | -    | -   | -   |
|            | 0.9 |     |     | REC - RECEPTIONIST | 3/4" | 12 | 12 | (N) 20/1 | 33    | 34    | -     | -    | -    | -    | -    | -    | -    | -    | 33   | 34   | -   | -    | 34  | -        | -    | -   |     |
|            |     |     | 0.4 | REC - RECEPTIONIST | 3/4" | 12 | 12 | (N) 20/1 | 35    | 36    | -     | -    | -    | -    | -    | -    | -    | 35   | 36   | -    | -   | 36   | -   | -        | -    |     |     |
|            |     |     | 0.4 | REC - RECEPTIONIST | 3/4" | 12 | 12 | (N) 20/1 | 37    | 38    | -     | -    | -    | -    | -    | -    | -    | 37   | 38   | -    | -   | 38   | -   | -        | -    |     |     |
|            |     |     | 0.0 | S.O.               | -    | -  | -  | -        | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | 39   | 40  | -    | -   | 40       | -    | -   | -   |
|            |     |     | 0.0 | S.O.               | -    | -  | -  | -        | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | 41   | 42  | -    | -   | 42       | -    | -   | -   |

TYPE: BRANCH CIRCUIT MOUNTING: FLUSH SUPPLY: 208/120V, 3PH, 4W MAINS: 225 AMP MAIN LUGS ONLY SCIR: 22,000 AMPERES  
GROSS PHASE TOTALS A= 13.2 KVA B= 9.1 KVA C= 13.7 KVA  
CONNECTED LOAD 36.0 KVA  
NEC CALCULATED DEMAND LOAD  
LIGHTING 17.9 KVA HEATING 0.0 KVA HEATING AND COOLING (125%) 22.4 KVA AC & HEAT PUMPS 0.0 KVA (100% - MINUS NEC LOAD) 0.0 KVA AIR HANDLING & FANS 0.0 KVA (100%) 0.0 KVA RECEPTACLES 12.1 KVA (1ST 10 KVA + 50% OF REM.) 11.1 KVA ELECTRIC WATER HEATING 0.0 KVA (125%) 0.0 KVA ELEVATORS 0.0 KVA (100%) 0.0 KVA FOOD PROCESSING 0.0 KVA (100%) 0.0 KVA PROCESS 0.0 KVA (100%) 0.0 KVA MISCELLANEOUS 6.0 KVA (100%) 6.0 KVA  
TOTAL CONNECTED LOAD 36.0 KVA 25% OF LARGEST MOTOR: 0.0 KVA TOTAL NEC DEMAND LOAD: 38.4 KVA  
WORST PHASE (W.D.F.): 124.6 AMPS DEMAND LOAD CURRENT: 109.5 AMPS

**EXISTING PANEL B - MODIFICATIONS**

| LOAD TABULATION PANEL "MDP"                             |            |
|---|------------|
| EXISTING HIGH KW (AUGUST 2016) (FROM CITY OF ALBEMARLE) | = 55.12 KW |
| KVA @.8 POWER FACTOR                                    | = 69 KVA   |
| ADD 25% PER NEC   | = 17 KVA   |
| TOTAL   | = 86 KVA   |
| LOAD BEING ADDED  | = 2 KVA    |
| TOTAL   | = 88 KVA   |
| TOTAL NEW & EXISTING AMPERES @208V, 3Ø                  | = 244 A    |
| ADD 25% LARGEST MOTOR (25 HP)                           | = 9 A      |
| ADD 25% LIGHTING  | = 17 A     |
| SERVICE REQUIRED  | = 270 A    |
| EXISTING SERVICE CAPACITY                               | = 600 A    |



NOTE: ALL ITEMS DEPICTED HERE ARE EXISTING.  
**3 PARTIAL POWER RISER DIAGRAM**  
NOT TO SCALE

**DIV 10 OFFICE SECURITY UPGRADES**

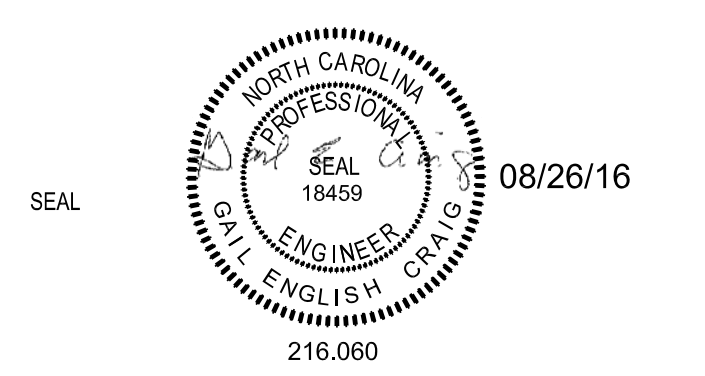
716 WEST MAIN STREET  
ALBEMARLE, NC 28001

**ELECTRICAL DETAILS**

DATE: 08-26-16  
PROJECT NO: 16020.00

REVISIONS  
NO: DATE: DESCRIPTION:

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SHEET NUMBER

**E102**