

LANSING

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MICHIGAN DTMB

OTTAWA BUILDING -  
SIGMA MOVE TO 1ST  
FLOOR

611 W. OTTAWA  
STREET, LANSING,  
MI 48933

09/18/2026

PROJECT CONTACT LIST

|                                                                                                                                                                                           |                                                                                                                                                                                                         |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| OWNER:<br>STATE OF MICHIGAN, DTMB<br>3111 W ST. JOSEPH ST, LANSING, MI 48917<br>CONTACT: ALAN GOSCHKA, AIA<br>PHONE: 517-388-3489<br>GOSCHKAA@MICHIGAN.GOV                                | ARCHITECT:<br>COLLIERS ENGINEERING & DESIGN<br>7050 W SAGINAW HIGHWAY, SUITE 200, LANSING, MI 48917<br>CONTACT: DAVID MOSS, AIA<br>PHONE: 517-898-1604<br>DAVID.MOSS@COLLIERSENG.COM                    | CONTRACTOR:<br>TBD |
| MECHANICAL ENGINEER:<br>COLLIERS ENGINEERING & DESIGN<br>3410 BRIARFIELD BLVD, MAUMEE, OH 43537<br>CONTACT: MATT HOLLENBECK, PE<br>PHONE: 567-804-5118<br>MATT.HOLLENBECK@COLLIERSENG.COM | ELECTRICAL ENGINEER:<br>COLLIERS ENGINEERING & DESIGN<br>7050 W SAGINAW HIGHWAY, SUITE 200, LANSING, MI 48917<br>CONTACT: ANGELA ROBINSON, PE<br>PHONE: 517-827-8726<br>ANGELA.ROBINSON@COLLIERSENG.COM |                    |

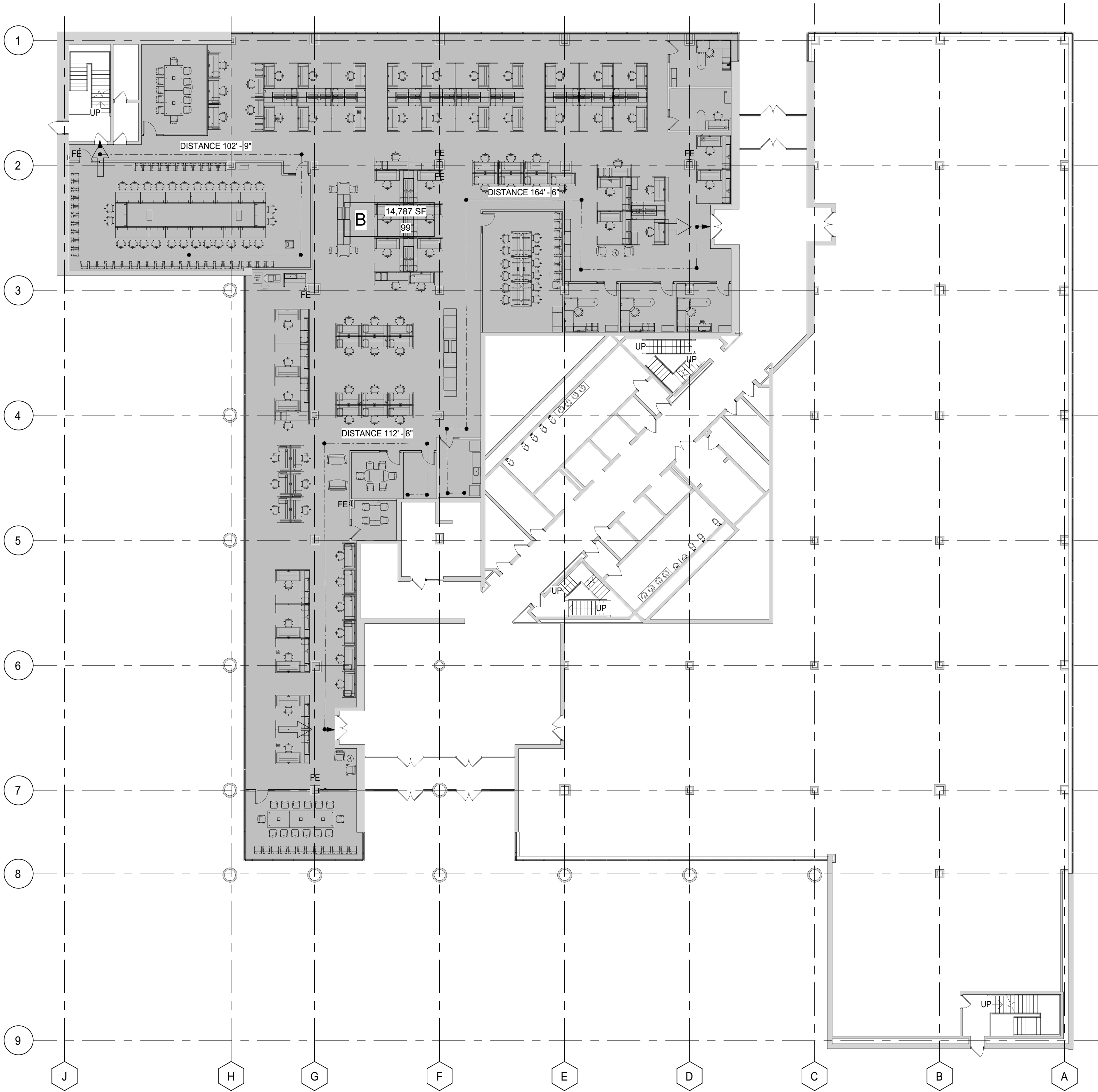
PROJECT LOCATION MAP



DRAWING INDEX

| DRAWING INDEX - WITH SCHEDULED RELEASES |                                     |                                    |                                    |                                     |                                    |
|-----------------------------------------|-------------------------------------|------------------------------------|------------------------------------|-------------------------------------|------------------------------------|
|                                         |                                     | 08/13/2026 - ISSUED FOR 50% REVIEW | 08/31/2026 - ISSUED FOR 90% REVIEW | 09/16/2026 - ISSUED FOR 100% REVIEW | 09/18/2026 - ISSUED FOR BID/PERMIT |
| - GENERAL                               |                                     |                                    |                                    |                                     |                                    |
| 000                                     | COVER SHEET                         | X                                  | X                                  | X                                   | X                                  |
| 001                                     | CODE COMPLIANCE & LIFE SAFETY PLANS | X                                  | X                                  | X                                   | X                                  |
| - ARCHITECTURAL                         |                                     |                                    |                                    |                                     |                                    |
| 001                                     | GENERAL NOTES AND LEGENDS           | X                                  | X                                  | X                                   | X                                  |
| 002                                     | WALL TYPES                          | X                                  | X                                  | X                                   | X                                  |
| 101                                     | FIRST FLOOR DEMOLITION PLAN         | X                                  | X                                  | X                                   | X                                  |
| 121                                     | FIRST FLOOR DEMOLITION CEILING PLAN | X                                  | X                                  | X                                   | X                                  |
| 101                                     | FIRST FLOOR PLAN                    | X                                  | X                                  | X                                   | X                                  |
| 121                                     | FIRST FLOOR CEILING PLAN            | X                                  | X                                  | X                                   | X                                  |
| 141                                     | FIRST FLOOR FINISH PLAN             | X                                  | X                                  | X                                   | X                                  |
| 161                                     | FIRST FLOOR FFE PLAN                | X                                  | X                                  | X                                   | X                                  |
| 121                                     | INTERIOR ELEVATIONS                 | X                                  | X                                  | X                                   | X                                  |
| 602                                     | SCHEDULES, DOOR AND WINDOW DETAILS  | X                                  | X                                  | X                                   | X                                  |
| - MECHANICAL                            |                                     |                                    |                                    |                                     |                                    |
| 000                                     | MECHANICAL LEGEND SHEET             |                                    | X                                  | X                                   | X                                  |
| D101                                    | HVAC DEMOLITION PLAN                |                                    | X                                  | X                                   | X                                  |
| 101                                     | 1ST FLOOR HVAC PLAN                 |                                    | X                                  | X                                   | X                                  |
| 401                                     | ENLARGED HVAC PLANS                 |                                    | X                                  | X                                   | X                                  |
| 500                                     | MECHANICAL DETAILS                  |                                    | X                                  | X                                   | X                                  |
| 600                                     | HVAC SCHEDULES                      |                                    | X                                  | X                                   | X                                  |
| - FIRE PROTECTION                       |                                     |                                    |                                    |                                     |                                    |
| 000                                     | FIRE PROTECTION LEGEND SHEET        |                                    |                                    |                                     |                                    |
| 01                                      | LEVEL 1 FIRE PROTECTION PLAN        |                                    | X                                  | X                                   | X                                  |
| - ELECTRICAL                            |                                     |                                    |                                    |                                     |                                    |
| 001                                     | LEGEND                              |                                    |                                    |                                     |                                    |
| 101                                     | ELECTRICAL POWER DEMOLITION PLAN    |                                    | X                                  | X                                   | X                                  |
| 1201                                    | ELECTRICAL LIGHTING DEMOLITION PLAN |                                    | X                                  | X                                   | X                                  |
| 101                                     | POWER PLAN                          |                                    | X                                  | X                                   | X                                  |
| 201                                     | LIGHTING PLAN                       |                                    | X                                  | X                                   | X                                  |
| 301                                     | SCHEDULES                           |                                    | X                                  | X                                   | X                                  |
|                                         |                                     | X                                  | X                                  | X                                   | X                                  |

| REV | DATE       | DESCRIPTION           |
|-----|------------|-----------------------|
| 1   | 08/13/26   | PHASE 500 REVIEW      |
| 2   | 08/31/2026 | 90% REVIEW SET        |
| 3   | 09/16/2026 | 100% REVIEW SET       |
| 4   | 09/18/2026 | ISSUED FOR BID/PERMIT |



1 CODE COMPLIANCE DIAGRAM - FIRST FLOOR  
SCALE : 1/16" = 1'-0"

APPLICABLE CODE:  
COMPLIANCE WITH THE: 2021 MICHIGAN BUILDING, REHABILITATION, MECHANICAL, AND ENERGY CONSERVATION CODES (BASED ON 2021 I-CODES), 2021 PLUMBING CODE (BASED ON 2018 IPC) INCLUDING MICHIGAN ADDENDA AND ERRATA; 2023 NATIONAL ELECTRICAL CODE (NEC) AND 2023 CONSTRUCTION CODE - PART 8 ELECTRICAL CODE RULES; BOILER CODE (2010 ASME BOILER AND PRESSURE VESSEL CODES WITH 2011 ADDENDA); ELEVATOR CODE (2010 ASME 17.1, 2011 ASME A18.1 AND ELEVATOR SAFETY BOARD GENERAL RULES, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC A117.1-09), AND OTHER LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS APPLICABLE TO THIS PROJECT.

### BUILDING CODE SUMMARY

|                             |                                             |  |  |
|-----------------------------|---------------------------------------------|--|--|
| <b>PROJECT INFORMATION:</b> |                                             |  |  |
| PROJECT NAME:               | OTTAWA BUILDING - SIGMA MOVE TO FIRST FLOOR |  |  |
| PROJECT NUMBER:             | 26008532A                                   |  |  |
| PREPARED BY:                | CHECKED BY:                                 |  |  |
| DATE:                       | DATE:                                       |  |  |

|                                                                                                                            |  |
|----------------------------------------------------------------------------------------------------------------------------|--|
| <b>REHABILITATION OF EXISTING STRUCTURES:</b>                                                                              |  |
| PER THE 2015 MICHIGAN RAHABILITATION CODE FOR EXISTING BUILDINGS (2015 EIBC)                                               |  |
| <input type="checkbox"/> REPAIRS (CHAPTER 6)                                                                               |  |
| <input type="checkbox"/> ALTERATIONS - LEVEL 1 (CHAPTER 7)                                                                 |  |
| <input checked="" type="checkbox"/> ALTERATIONS - LEVEL 2 (CHAPTER 8)                                                      |  |
| <input type="checkbox"/> ALTERATIONS - LEVEL 3 (CHAPTER 9)                                                                 |  |
| <input type="checkbox"/> CHANGE OF OCCUPANCY (CHAPTER 10)                                                                  |  |
| FORMER OCCUPANCY CLASSIFICATION(S):                                                                                        |  |
| NEW OCCUPANCY CLASSIFICATION(S):                                                                                           |  |
| PARTIAL CHANGE OF OCCUPANCY: <input type="checkbox"/> YES <input type="checkbox"/> NO                                      |  |
| IF YES: <input type="checkbox"/> SEPARATED <input type="checkbox"/> NOT SEPARATED                                          |  |
| <input type="checkbox"/> ADDITIONS (CHAPTER 11)                                                                            |  |
| SEPARATED ADDITION: <input type="checkbox"/> YES <input type="checkbox"/> NO                                               |  |
| IF YES, FIRE RESISTANCE RATING: <input type="checkbox"/> FIRE WALL _____ HR <input type="checkbox"/> FIRE BARRIER _____ HR |  |
| <input type="checkbox"/> HISTORIC BUILDING (CHAPTER 12)                                                                    |  |
| <input type="checkbox"/> RELOCATED BUILDING (CHAPTER 13)                                                                   |  |
| <input type="checkbox"/> ACCESSIBILITY UPGRADES: COMPLY WITH SECTION 410 AND ADDENDA _____                                 |  |

|                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>OCCUPANCY CLASSIFICATION AND MIXED OCCUPANCIES:</b>                                                                                                             |  |
| (CHAPTERS 3 & 5)                                                                                                                                                   |  |
| <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> ACCESSORY - GROUP ; _____ % OF FLOOR AREA                                                      |  |
| <input type="checkbox"/> MIXED OCCUPANCY <input type="checkbox"/> SEPARATED <input checked="" type="checkbox"/> NON-SEPARATED <input type="checkbox"/> COMBINATION |  |
| IF SEPARATED, FIRE RESISTANCE RATING OF FIRE BARRIER: (TABLE 508.4) _____ HR                                                                                       |  |
| OCCUPANCY CLASSIFICATION(S): <u>B - BUSINESS</u>                                                                                                                   |  |
| USES: <u>OFFICE, CONFERENCE</u>                                                                                                                                    |  |

|                                                                     |                                                                                                  |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>AUTOMATIC SPRINKLER SYSTEM PROVIDED THROUGHOUT BUILDING:</b>     |                                                                                                  |
| <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |                                                                                                  |
| <b>PARTIAL/LIMITED-AREA SPRINKLER SYSTEM:</b>                       |                                                                                                  |
| <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |                                                                                                  |
| NFPA STANDARD:                                                      | <input checked="" type="checkbox"/> 13 <input type="checkbox"/> 13R ALT. FIRE PROTECTION SYSTEM: |

| FIRE PROTECTION SYSTEMS:                                                |          |          |         |
|-------------------------------------------------------------------------|----------|----------|---------|
| SIZE AND LOCATION OF FIRE AREAS INDICATED ON CODE COMPLIANCE DRAWING(S) |          |          |         |
| (CHAPTER 9)                                                             |          |          |         |
| FIRE PROTECTION SYSTEM                                                  | REQUIRED | PROVIDED | SECTION |
| AUTOMATIC SPRINKLER                                                     | YES      | YES      | (903)   |
| ALT. AUTOMATIC FIRE-EXTINGUISHING SYST                                  | NO       | NO       | (904)   |
| STANDPIPE                                                               | YES      | YES      | (905)   |
| PORTABLE FIRE EXTINGUISHER                                              | YES      | YES      | (906)   |
| FIRE ALARM & DETECTION                                                  | YES      | YES      | (907)   |
| EMERGENCY ALARM                                                         | YES      | YES      | (908)   |
| SMOKE CONTROL SYSTEM                                                    | NO       | NO       | (919)   |
| SMOKE & HEAT REMOVAL                                                    | NO       | NO       | (910)   |
| FIRE COMMAND CENTER                                                     | NO       | NO       | (911)   |
| FIRE DEPARTMENT CONNECTIONS                                             | NO       | NO       | (912)   |
| FIRE PUMP                                                               | NO       | NO       | (913)   |
| EMERGENCY RESPONDER SAFETY                                              | NO       | NO       | (914)   |
| CARBON MONOXIDE DETECTION                                               | NO       | NO       | (915)   |
| EMERGENCY RESPONDER RADIO                                               | NO       | NO       | (916)   |

| MEANS OF EGRESS:             |             |  |  |
|------------------------------|-------------|--|--|
| DESIGN OCCUPANT LOAD SUMMARY |             |  |  |
| (CHAPTER 10)                 |             |  |  |
| OCCUPANCY                    | FIRST FLOOR |  |  |
| B                            | 99          |  |  |
| TOTAL                        | 99          |  |  |

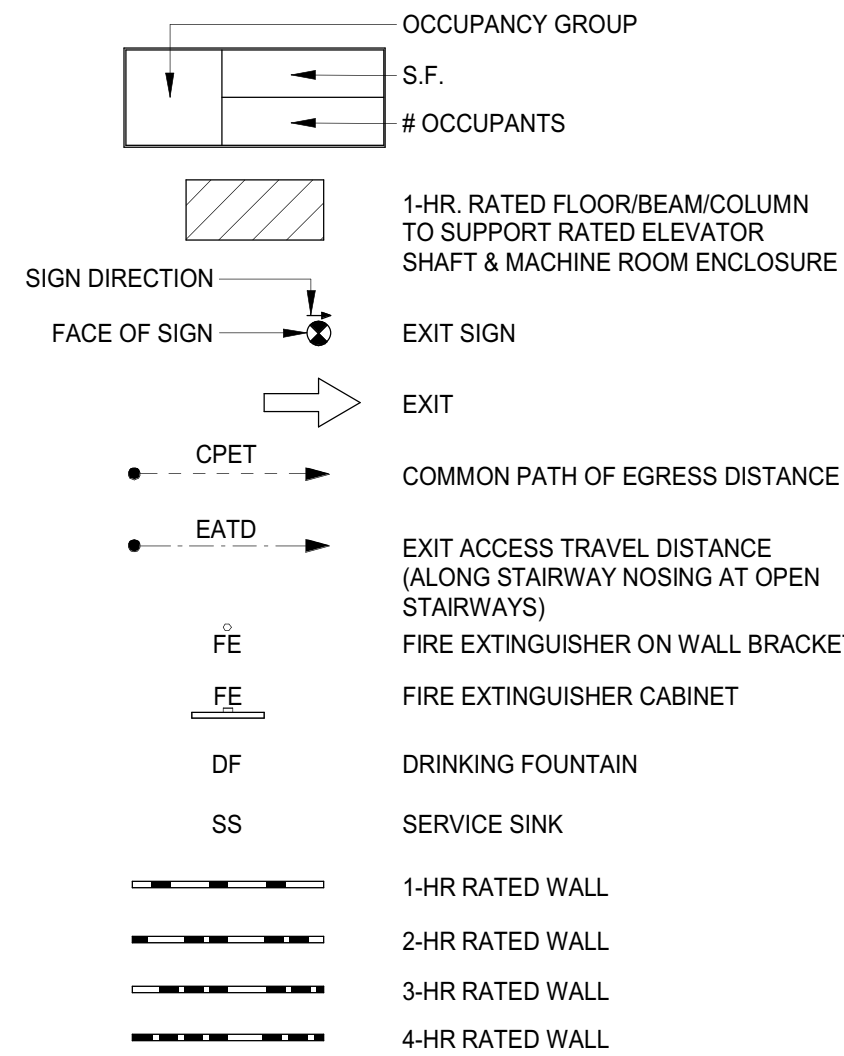
| MEANS OF EGRESS ELEMENT      | REQUIRED     | PROVIDED | SECTION        |
|------------------------------|--------------|----------|----------------|
| NUMBER OF EXITS              | 2            | 3        | (1006.3.2)     |
| EXIT ACCESS TRAVEL DISTANCE  | 300 FT. MAX. | 164'-6"  | (TABLE 1017.2) |
| DEAD-END LIMIT               | 50 FT. MAX.  | COMPLIES | (1020.4)       |
| COMMON PATH OF TRAVEL LIMIT  | 100 FT. MAX. | COMPLIES | (1006.2.1)     |
| CORRIDOR FIRE-RESIST. RATING |              |          | (TABLE 1020.1) |

|                          |                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ADDITIONAL NOTES:</b> |                                                                                                                                                                                                                                                                                                                                                             |
| COMPLIANCE:              |                                                                                                                                                                                                                                                                                                                                                             |
| A.                       | PROVIDE FIRE EXTINGUISHERS IN CONFORMANCE WITH THE INTERNATIONAL FIRE CODE SECTION 906 AND COORDINATE WITH FIRE MARSHAL PRIOR TO INSTALLATION. DO NOT INSTALL FIRE EXTINGUISHERS UNTIL LOCATIONS HAVE BEEN REVIEWED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. OBTAIN ALL REQUIRED PERMITS AND PAYMENT OF PERMIT AND APPLICATION FEES FOR THE WORK. |
| B.                       |                                                                                                                                                                                                                                                                                                                                                             |
| CERTIFICATIONS:          |                                                                                                                                                                                                                                                                                                                                                             |
| A.                       | THE ARCHITECTS CERTIFICATION IS ONLY FOR THE WORK SHOWN TO BE DONE. IT DOES NOT CONSTITUTE APPROVAL OF PRE-EXISTING CONDITIONS OR REVIEW OF THOSE CONDITIONS FOR CODE COMPLIANCE.                                                                                                                                                                           |
| B.                       | THE ARCHITECTS CERTIFICATION IS FOR COMPLIANCE WITH THE BUILDING CODE OF MICHIGAN AND ITS VARIOUS REFERENCE STANDARDS, FOR PURPOSES OF OBTAINING A BUILDING PERMIT THROUGH THE AUTHORITY HAVING JURISDICTION AND TO CONVEY CONSTRUCTION REQUIREMENTS FOR THE PROJECT. CERTIFICATION DOES NOT GUARANTEE COMPLIANCE WITH LOCAL CODES THAT MAT APPLY.          |

| HEIGHT & AREA - ACTUAL: |                |                   |  |
|-------------------------|----------------|-------------------|--|
| BUILDING HEIGHT         | HEIGHT IN FEET | HEIGHT IN STORIES |  |
| EXISTING                | ft             |                   |  |

| BUILDING AREA SUMMARY | EXISTING   | RENOVATION | TOTAL      |
|-----------------------|------------|------------|------------|
| FIRST                 | 28,146 sf  | 14,787 sf  | 42,933 sf  |
| SECOND                | 42,933 sf  | - sf       | 42,933 sf  |
| THIRD                 | 48,190 sf  | - sf       | 48,190 sf  |
| FOURTH                | 52,091 sf  | - sf       | 52,091 sf  |
| TOTAL                 | 171,360 sf | 14,787 sf  | 186,147 sf |

### LEGEND



STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM LACH, R.A., NCARB, DIRECTOR



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OTTAWA BUILDING - SIGMA  
MOVE TO 1ST FLOOR

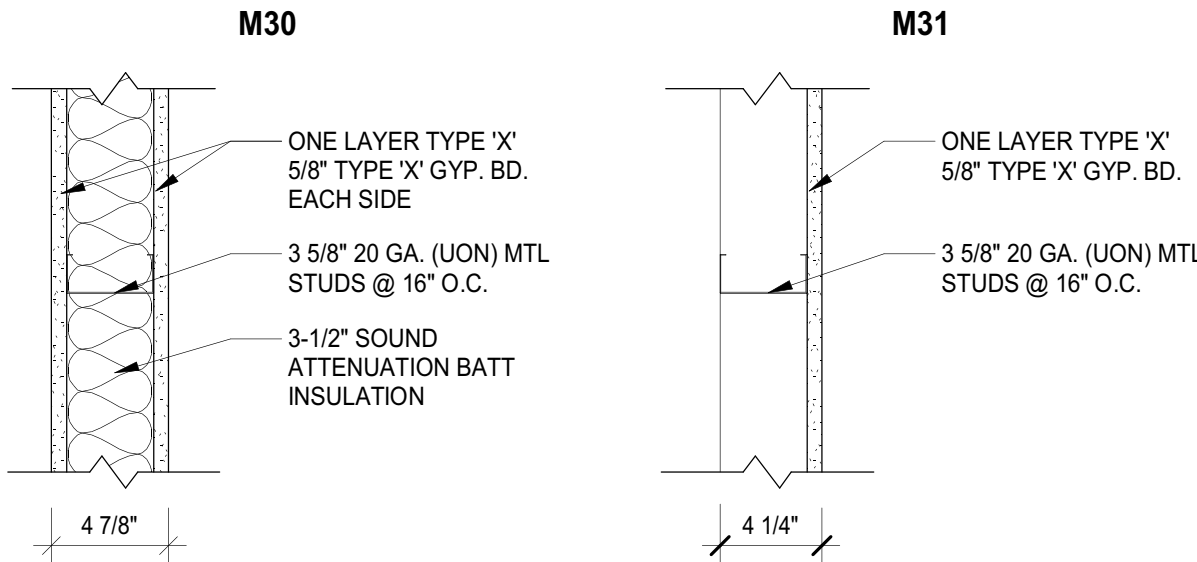
611 W. OTTAWA STREET, LANSING, MI 48933

|          |    |            |                                                  |                        |                       |
|----------|----|------------|--------------------------------------------------|------------------------|-----------------------|
| DESIGNED | BY | DATE       | ISSUED FOR                                       | IDENTIFICATION NO.     | SHEET                 |
| DESIGNED | BY | 09/18/2028 | BIDS/PERMITS <input checked="" type="checkbox"/> | FILE NO. 171/26231.ABG | 171/26231.ABG         |
| DESIGNED | BY |            | C-CONSTRUCTION <input type="checkbox"/>          | INDEX NO. Y26312       | INDEX NO. Y26312      |
| DESIGNED | BY |            | FINAL RECORD <input type="checkbox"/>            | PROJECT NO. 26008432A  | PROJECT NO. 26008432A |
| DESIGNED | BY |            |                                                  |                        | G001                  |



WALL TYPES

NOTE: SEE TYPICAL WALL SECTIONS FOR ADDITIONAL INFORMATION AT FLOOR AND DECK ABOVE CONDITIONS.



WALL LEGEND

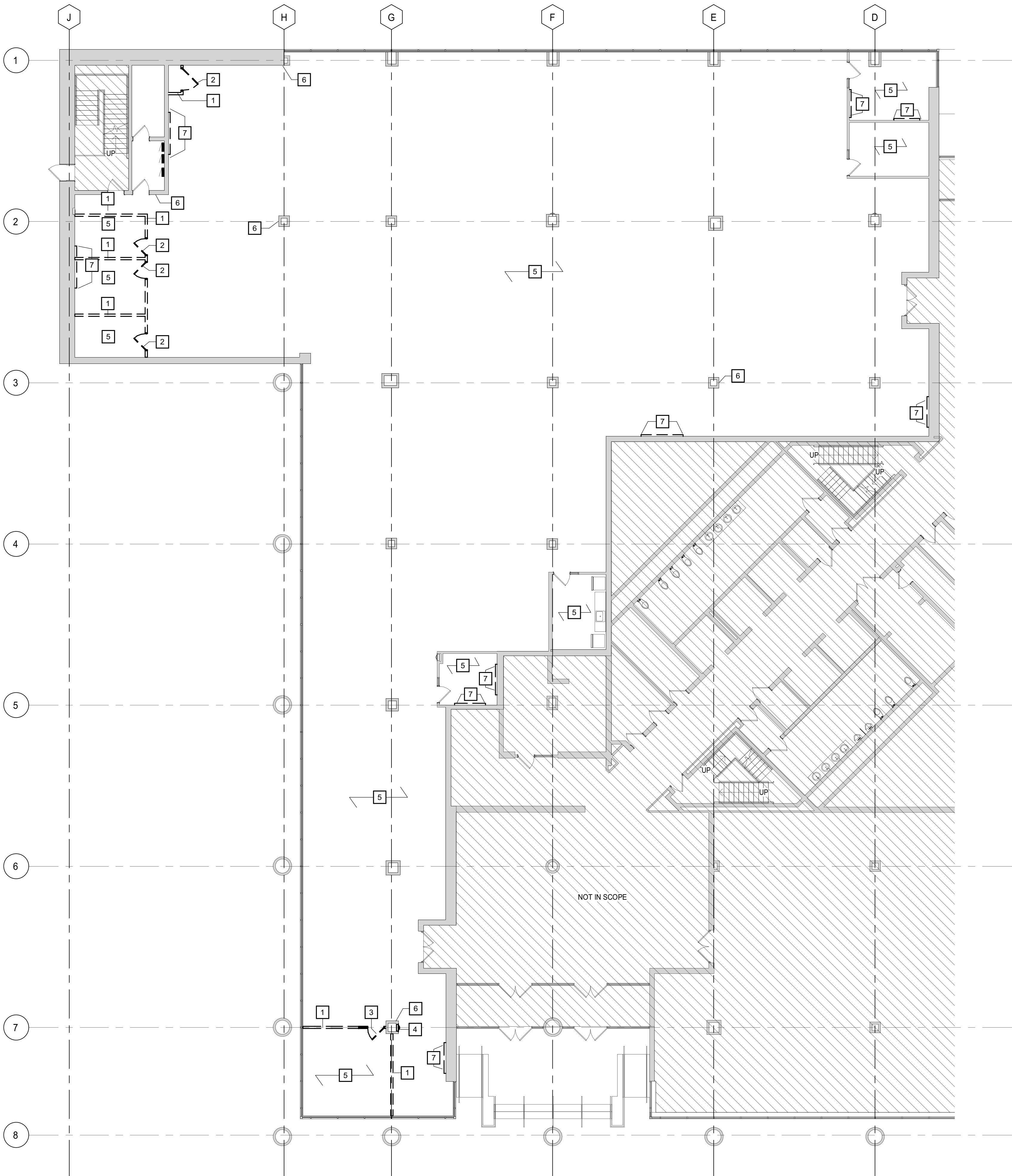
|  | WALL MATERIAL                                                                                                                                                                                                                          | WALL SIZES                                                                                                                                   |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|  | M = METAL STUD                                                                                                                                                                                                                         | 1 = 1-5/8" METAL STUDS @ 16" O.C.<br>2 = 2-1/2" METAL STUDS @ 16" O.C.<br>3 = 3-5/8" METAL STUDS @ 16" O.C.<br>6 = 6" METAL STUDS @ 16" O.C. |
|  | WALL INFORMATION                                                                                                                                                                                                                       |                                                                                                                                              |
|  | 1 = WALL HEIGHT STUD FRAMING AND GYP BOARD FINISH TO EXISTING CEILING ABOVE<br>2 = GYP BOARD FINISH TO 10'-6" ABOVE FINISHED FLOOR<br>3 = 3-1/2" SOUND ATTENUATION CAVITY BATT INSULATION FULL HEIGHT, FLOOR TO EXISTING CEILING ABOVE |                                                                                                                                              |

COLUMN ENCLOSURES, CHASES AND ENCLOSED UNINHABITABLE SPACES ARE TO BE WALL TYPE M31, UNLESS NOTED OTHERWISE.

WALLS

- A. DIMENSIONS:
- STUD WALLS ARE TO FACE OF STUD, UNLESS OTHERWISE INDICATED IN A.c. OR A.d. BELOW.
  - MASONRY WALLS ARE TO FACE OF MASONRY.
  - EXISTING CONSTRUCTION ARE TO FINISHED FACE OF CONSTRUCTION.
  - WHERE NOTED AS "CLR" DIMENSIONS ARE TO FINISHED SURFACE AND ARE CRITICAL FOR ACCESSIBILITY REQUIREMENTS OR BUILT-IN FURNISHINGS.
- B. TYPES:
- WALLS NOT INDICATED WITH A WALL TYPE SHALL BE TYPE M30.
  - COLUMN ENCLOSURES, CHASES AND ENCLOSED UNINHABITABLE SPACES SHALL BE WALL TYPE M31, UNLESS NOTED OTHERWISE.
  - BRACING: PROVIDE CHANNEL COLD ROLLED STEEL (CRSS) BRACING AT ALL METAL STUD WALLS. INSTALL TWO ROWS OF BRACING 4'-0" O.C. FOR WALLS UP TO 13'-0" HIGH.
  - PROVIDE (2) #10-7/16" HEX HEAD SHEET METAL SCREWS AT EACH STUD/TRACK CONNECTION AT ALL WALLS, BULK HEADS & SOFFITS NOT EXTENDING FLOOR TO DECK.
  - PROVIDE DEFLECTION TRACK OR CLIP AT TOP OF METAL STUD WALLS THAT EXTEND TO THE UNDERSIDE OF STRUCTURAL MEMBERS OR FLOOR/ ROOF DECK.
  - METAL STUD WALLS IN WHICH STUDS DO NOT EXTEND TO DECK ABOVE SHALL BE Laterally Braced At 45 DEGREES TO THE STRUCTURE ABOVE WITH 3 5/8" x 20 GA. STUDS @ 48" O.C. MAX., AND AT ENDS OF SUCH WALLS WHICH DO NOT INTERSECT OTHER WALLS.
  - PROVIDE FULL HEIGHT DOUBLE STUDS AT DOOR AND WINDOW JAMBS.
  - FIRE-RESISTANT JOINT SYSTEMS: AT FIRE-RESISTANT RATED WALLS, FLOORS OR FLOOR/CEILING ASSEMBLIES, AND ROOFS OR ROOF/CEILING ASSEMBLIES, PROVIDE AN APPROVED TESTED JOINT ASSEMBLY PROVIDING THE MINIMUM TIME AND TEMPERATURE RISE AT THE WALL, FLOOR, OR ROOF SUITABLE FOR THE CONSTRUCTION WHERE THE SYSTEM IS TO BE INSTALLED.
  - THE BOTTOM EDGE OF GYPSUM WALL BOARD SHALL BE INSTALLED 3/8" ABOVE THE FLOOR AND SEALED AS NOTED IN WALL TYPES.
- C. RATINGS:
- SMOKE WALLS AND SMOKE BARRIERS: SMOKE WALLS AND SMOKE BARRIERS MUST FORM A COMPLETE BARRIER TO LIMIT THE TRANSFER OF SMOKE, INCLUDING PERIMETER DETAILS, PENETRATIONS, AND AS REQUIRED BETWEEN WALLS AND DOOR JAMBS, OR SIDELIGHT FRAMES. THE MEMBRANE IS TO BE CONTINUOUS THROUGH ALL CONCEALED SPACES.
    - RECESSED CABINETS, OUTLET BOXES, AND OTHER PENETRATIONS MUST BE SEALED
    - OPENINGS AROUND PENETRATIONS ARE TO BE SEALED.
    - ALL EXPOSED JOINTS, ANGLES, AND ABUTMENTS IN THE SYSTEM, INCLUDING FLOOR AND ABOVE CEILING MUST BE TAPED AND FINISHED.
    - SEAL THE INTERFACE BETWEEN WALLS AND DOOR JAMBS, OR SIDELIGHT FRAMES.
  - FIRE WALLS AND FIRE BARRIERS: FIRE WALLS AND FIRE BARRIERS MUST BE SIMILARLY CONSTRUCTED AS A COMPLETE BARRIER TO RESIST THE SPREAD OF SMOKE AND FIRE. PENETRATIONS MUST BE SEALED AND LABELED WITH AN APPROVED FIRE RESISTANT JOINT SYSTEM. INSTALL A FIRE RESISTANT JOINT SYSTEM AT THE HEAD AND FLOOR CONDITION OF FIRE RATED WALLS AND BARRIERS.
  - FIRE AND SMOKE WALL / BARRIER / WALLS LABELING:
    - WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING, OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:
      - BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
      - INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS," OR OTHER WORDING.
  - ACOUSTICAL WALLS: WALLS INDICATED WITH ACOUSTICAL BATT, AND/OR A GIVEN AN STC RATING, SHALL BE CONSTRUCTED TO MINIMIZE SOUND TRANSMISSION AS FOLLOWS:
    - PROVIDE ACOUSTICAL SEALANT AT ALL FLOOR AND HEAD LEVELS, EACH SIDE OF THE WALLS.
    - SET TRACK IN 3 CONTINUOUS BEADS OF ACOUSTICAL SEALANT.
    - EXTEND SOUND BATTS THOROUGH ANY INTERSECTING WALLS.
    - STAGGER OUTLETS A MINIMUM OF 24 INCHES HORIZONTAL. DO NOT INSTALL MORE THAN ONE OUTLET IN A COMMON STUD CAVITY. SEAL JOINTS AROUND OUTLETS WITH ACOUSTICAL SEALANT.
  - GYPSUM BOARD WALL COMPONENTS AND ACCESSORIES:
    - WALL TYPES DO NOT INDICATE FINAL FINISHES. REFER TO FINISH PLANS AND FINISH SCHEDULE.
    - GYPSUM BOARD SHALL BE TYPE "X" FIRE RATED WITH:
      - LEVEL 1 FINISH AT JOINTS WHICH WILL REMAIN CONCEALED. PROVIDE GALVANIZED STEEL CORNER BEADS AT CORNERS.
      - LEVEL 3 FINISH WHERE WALLS EXPOSED TO VIEW SCHEDULED FOR PAINT IN SERVICE SPACES (eg. TELE / DATA CLOSETS, MECHANICAL ROOMS, JANITOR CLOSETS, STORAGE ROOMS).
      - LEVEL 4 FINISH WHERE EXPOSED TO VIEW UPON PROJECT COMPLETION U.N.O.
      - LEVEL 5 FINISH AT GRAPHIC CORRIDOR, AS WELL AS DRY ERASE AND CHALK BOARD PAINTED AREAS. REFER TO FINISH LOCATION ON PLANS, AND COORDINATE WITH DESIGNER IN THE FIELD.
    - PROVIDE MOISTURE/ MOLD / ABUSE RESISTANT GYPSUM BOARD AT WALLS IN TOILET ROOMS, JANITORS CLOSETS AND ANY ROOM WHERE MOISTURE CONDITIONS WILL OCCUR AND NOT RECEIVING TILE FINISH.
    - PROVIDE GLASS MATT GYPSUM BOARD AT WALLS DIRECTLY ADJACENT TO LIVING WALL ELEMENT AND AT ALL WET AREAS (SHOWER ROOMS, COMMUNAL KITCHENDISHWASHER, ETC.) GLASS MAT GYPSUM BOARD SHALL RECEIVE FIBERGLASS TAPE AND FINISH AS RECOMMENDED BY MANUFACTURER.
  - METAL TRIM:
    - EXPOSED METAL J-TRIM TO BE COMPLETELY COVERED WITH SKIM COAT
    - NON-METALIC J-TRIM OR OTHER SHAPES ARE NOT ACCEPTABLE, UNLESS OTHERWISE NOTED
  - LOCATIONS WHERE GYPSUM BOARD WALLS TERMINATE AT DISSIMILAR MATERIALS, PROVIDE A FINISH-ABLE METAL END TRIM AND A 1/4" GAP BETWEEN TRIM AND ADJACENT MATERIAL. FILL GAP WITH BACKER ROD AND SEALANT.
  - PROVIDE SOLID FIRE TREATED WOOD BLOCKING IN WALL AND CEILING CONSTRUCTION AS REQUIRED TO SUPPORT WALL MOUNTED MILLWORK AND CASEWORK, FURNISHINGS, RAILINGS, GRAB BARS, TOILET & BATH ACCESSORIES OR ANY OTHER WALL MOUNTED ITEMS INDICATED ON THESE DRAWINGS REQUIRING BLOCKING.
  - PROVIDE PAPER FACED "L" SHAPED TAPE ON TRIM AT THE TOP OF ALL GYP. BD. THAT ABUTS SUSPENDED CEILINGS AND EXPOSED STRUCTURE.
- E. CONTROL JOINTS:
- PROVIDE IN GYPSUM WALL BOARD CONSTRUCTION AS FOLLOWS:
    - PROVIDE CONTROL JOINTS IN EXPANSES OF WALLS AT MAXIMUM 25-FOOT INTERVALS, AND FULL HEIGHT. CONTROL JOINTS ARE RECOMMENDED AT DOOR JAMBS, EXTENDING FROM DOOR HEAD TO TOP OF WALL.
    - CONTROL JOINTS ARE REQUIRED IN CEILINGS TO LIMIT AREAS TO 2,500 SQUARE FEET. INSTALL CONTROL JOINTS IN CEILINGS TO LIMIT DIMENSIONS IN EITHER DIRECTION TO 50 FEET MAXIMUM WITH PERIMETER RELIEF, 30 FEET MAXIMUM OTHERWISE. INSTALL CONTROL JOINTS WHERE CEILING FRAMING OR FURRING CHANGES DIRECTION.
    - PROVIDE CONTROL JOINTS IN GYPSUM WALL BOARD WHERE THE UNDERLYING STRUCTURE CONTAINS A CONTROL OR MOVEMENT JOINT.
    - IN AN ACOUSTICALLY RATED ASSEMBLY, PROVIDE ACOUSTICALLY TESTED CONTROL JOINT ASSEMBLY WITH A STC RATING MINIMALLY EQUAL TO THE WALLS STC RATING. COORDINATE REQUIRED LOCATIONS ON FEATURE WALLS WITH DESIGNER IN THE FIELD. METAL TRIM: EXPOSED METAL OR NON-METALLIC J-MOLD IS NOT ACCEPTABLE.
    - PROVIDE CONTROL JOINTS AT ALL BUILDING CONTROL OR EXPANSION JOINTS.
  - IN CONCRETE MASONRY UNIT WALLS REFER TO STRUCTURAL FOR CONTROL JOINT SPACING
  - IN CLAY MASONRY VENEERS REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR EXPANSION JOINT LOCATIONS





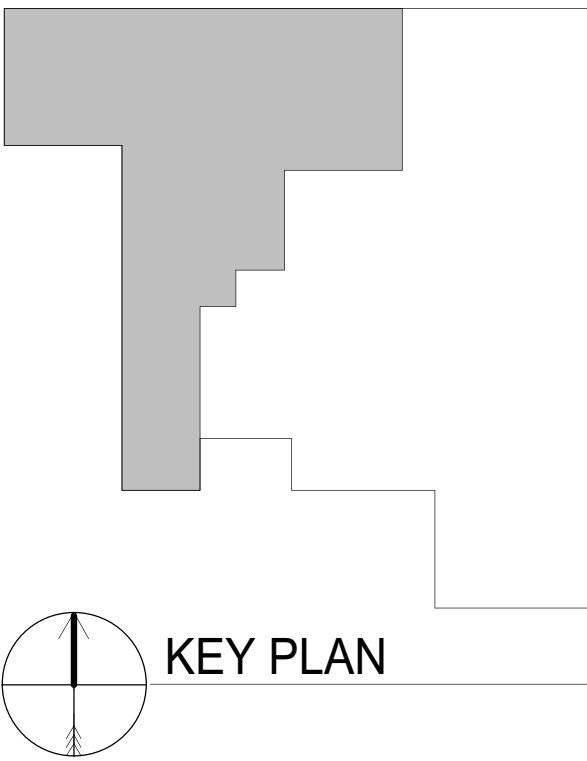
1 PARTIAL FIRST FLOOR DEMOLITION PLAN  
SCALE : 3/32" = 1'-0"

GENERAL NOTES

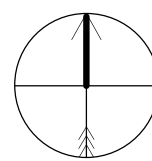
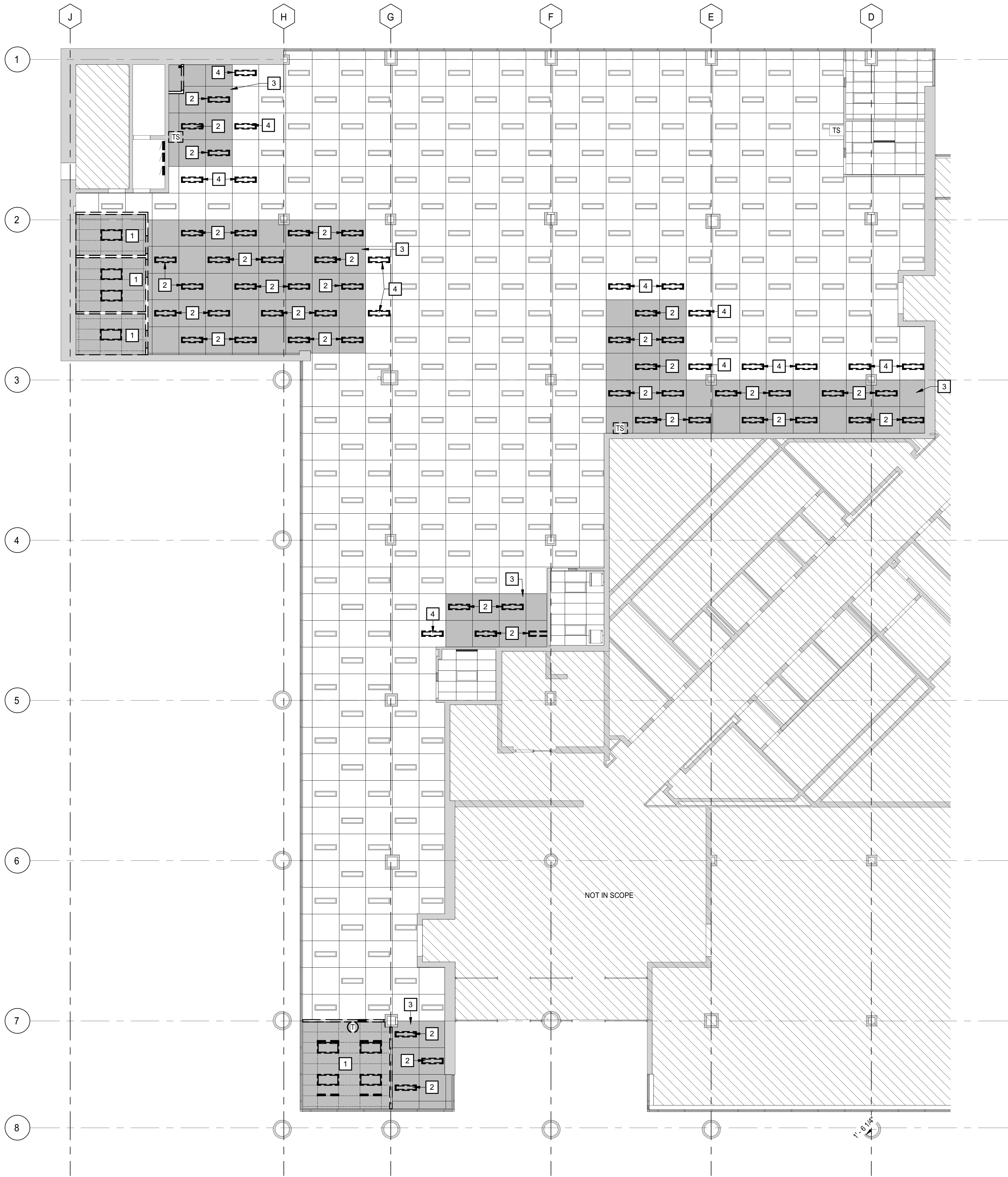
- A. CONTRACTOR SHALL COORDINATE REMOVAL OF FLOORS, WALLS AND CEILINGS WITH MECHANICAL, ELECTRICAL AND PLUMBING TRADES. ALL POWER, MECHANICAL AND PLUMBING LINES SHALL BE REMOVED BACK TO NEAREST MAIN BRANCH LINE OR PANEL.
- B. CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION AND EQUIPMENT NOTED TO REMAIN FROM DAMAGE RESULTING FROM DEMOLITION ACTIVITIES. ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM DEMOLITION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- C. CONTRACTOR SHALL PROTECT ADJACENT SURFACES IN PREPARATION OF SAW CUTTING REQUIRED FOR DEMOLITION ACTIVITIES.

KEYNOTES #

- 1 REMOVE EXISTING METAL STUD WALL INCLUDING FLOOR AND WALL EMBEDS.
- 2 REMOVE HOLLOW METAL DOOR, FRAME AND HARDWARE. SALVAGE AND TURN OVER TO STATE.
- 3 REMOVE HOLLOW METAL DOOR, SIDELIGHT, FRAME AND HARDWARE. SALVAGE AND TURN OVER TO STATE.
- 4 REMOVE EXISTING RECESSED FIRE EXTINGUISHER CABINET. SALVAGE FOR REUSE.
- 5 REMOVE EXISTING FLOORING AND BASE.
- 6 PATCH AFFECTED WALLS FROM THERMOSTAT REMOVAL.
- 7 DEMO EXISTING GYP. BRD. FOR WOOD BACKING INSTALLATION. SEE ELEVATIONS FOR LOCATION OF BACKING.



| ISSUED FOR                                       | DATE       | DESIGNED | BIF |
|--------------------------------------------------|------------|----------|-----|
| BIDS/PERMITS <input checked="" type="checkbox"/> | 09/18/2028 | DRAWN    | BIF |
| CONSTRUCTION <input type="checkbox"/>            |            | CHECKED  | DM  |
| FINAL RECORD <input type="checkbox"/>            |            | APPROVED | DM  |
| IDENTIFICATION NO.                               | FILE NO.   |          |     |
| 171/26231.ABG                                    |            |          |     |
| INDEX NO.                                        |            |          |     |
| Y26312                                           |            |          |     |
| PROJECT PROJECT NO.                              |            |          |     |
| 26008432A                                        |            |          |     |



# 1 FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN

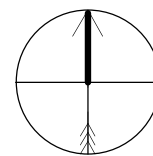
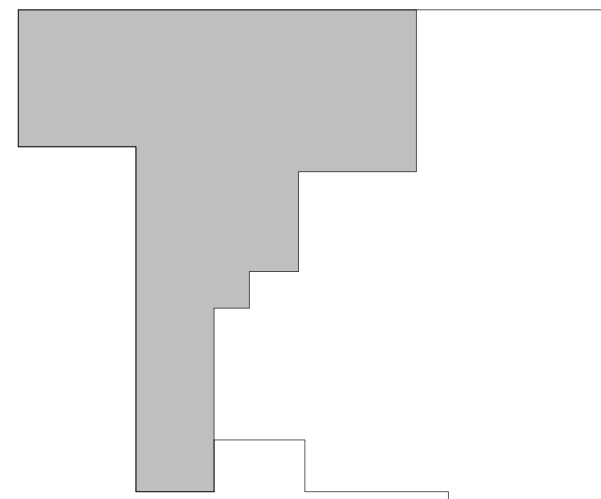
SCALE : 3/32" = 1'-0"

## GENERAL NOTES

- CONTRACTOR SHALL COORDINATE REMOVAL OF FLOORS, WALLS AND CEILINGS WITH MECHANICAL, ELECTRICAL AND PLUMBING TRADES. ALL POWER, MECHANICAL AND PLUMBING LINES SHALL BE REMOVED BACK TO NEAREST MAIN BRANCH LINE OR PANEL.
- CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION AND EQUIPMENT NOTED TO REMAIN FROM DAMAGE RESULTING FROM DEMOLITION ACTIVITIES. ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM DEMOLITION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROTECT ADJACENT SURFACES IN PREPARATION OF SAW CUTTING REQUIRED FOR DEMOLITION ACTIVITIES.

## KEYNOTES #

- REMOVE EXISTING CEILING GRID, TILE, LIGHTING AND HVAC.
- REMOVE EXISTING LIGHT FIXTURE.
- REMOVE EXISTING CEILING TILES FROM HATCHED AREAS. CEILING GRID TO REMAIN.
- REMOVE EXISTING LIGHT FIXTURE. INFILL SPACE WITH SALVAGED TILE.



KEY PLAN

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM LACH, R.A., NCARB, DIRECTOR



Engineering  
& Design

Colliers  
2000 West Square Hwy.  
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www.colliersengineering.com

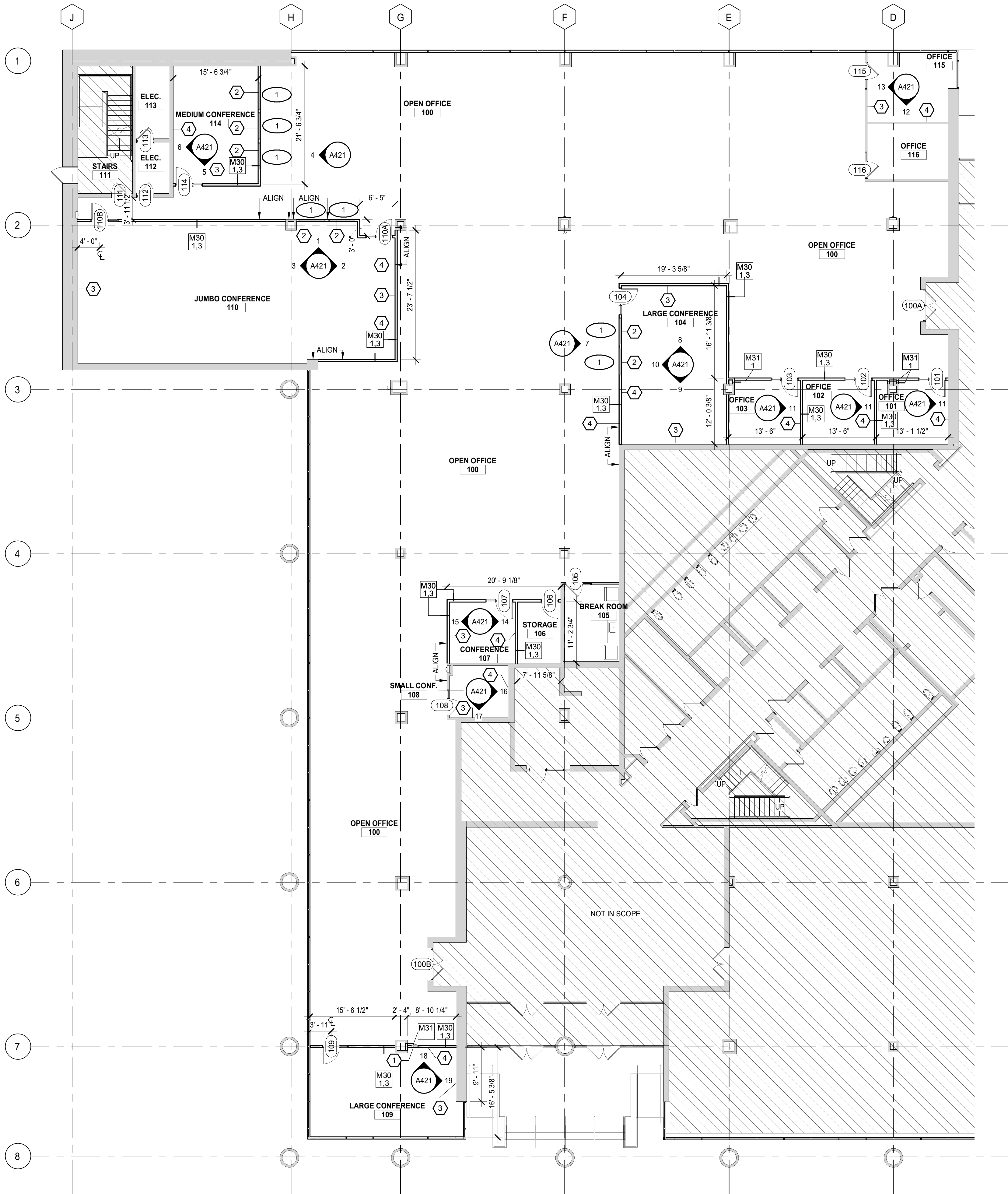
OTTAWA BUILDING - SIGMA  
MOVE TO 1ST FLOOR

611 W. OTTAWA STREET, LANSING, MI 48933

| ISSUED FOR   | DATE       | DESIGNED | DATE       | ISSUED FOR   | DATE       | DESIGNED | DATE       |
|--------------|------------|----------|------------|--------------|------------|----------|------------|
| BIDS/PERMITS | 09/18/2028 | DESIGNED | 09/18/2028 | BIDS/PERMITS | 09/18/2028 | DESIGNED | 09/18/2028 |
| CONSTRUCTION |            | DRAWN    |            | CONSTRUCTION |            | DRAWN    |            |
| FINAL RECORD |            | CHECKED  |            | FINAL RECORD |            | CHECKED  |            |
| APPROVED     |            | APPROVED |            | APPROVED     |            | APPROVED |            |

IDENTIFICATION NO.  
FILE NO. 171/26231.ABG  
INDEX NO. Y26312  
PROJECT NO. 26008432A

SHEET  
AD121



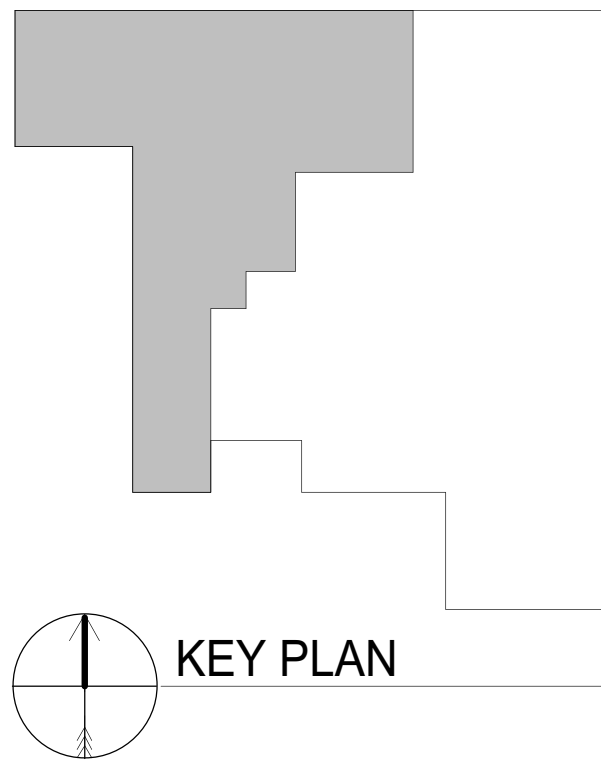
1 PARTIAL FIRST FLOOR PLAN  
SCALE : 3/32" = 1'-0"

GENERAL NOTES

- A. REFER TO A003 FOR WALL TYPES, DETAILS, AND ADDITIONAL INFORMATION.
- B. REFER TO A120 SERIES DRAWINGS FOR REFLECTED CEILING PLANS AND DETAILS.
- C. REFER TO A140 SERIES DRAWINGS FOR FINISH PLANS, SCHEDULES, AND DETAILS.
- D. REFER TO A160 SERIES DRAWINGS FOR FURNITURE AND EQUIPMENT PLANS AND SCHEDULES.
- E. REFER TO A600 SERIES DRAWINGS FOR DOOR SCHEDULE, WINDOW SCHEDULE, DETAILS, AND BASIS OF DESIGN.
- F. ALL DOORS TO BE LOCATED 4" FROM DRYWALL ADJACENT WALL UNLESS OTHERWISE NOTED.
- G. ALIGN FACES OF MASONRY AND STUD WALLS INDICATED IN THE SAME PLANE ON PLANS, U.O.N.

KEYNOTES

- 1 RELOCATE EXISTING FIRE EXTINGUISHER.
- 2 INSTALL NEW CLERESTORY WINDOW.
- 3 PROVIDE BACKING FOR TV
- 4 PROVIDE BACKING FOR MARKERBOARD



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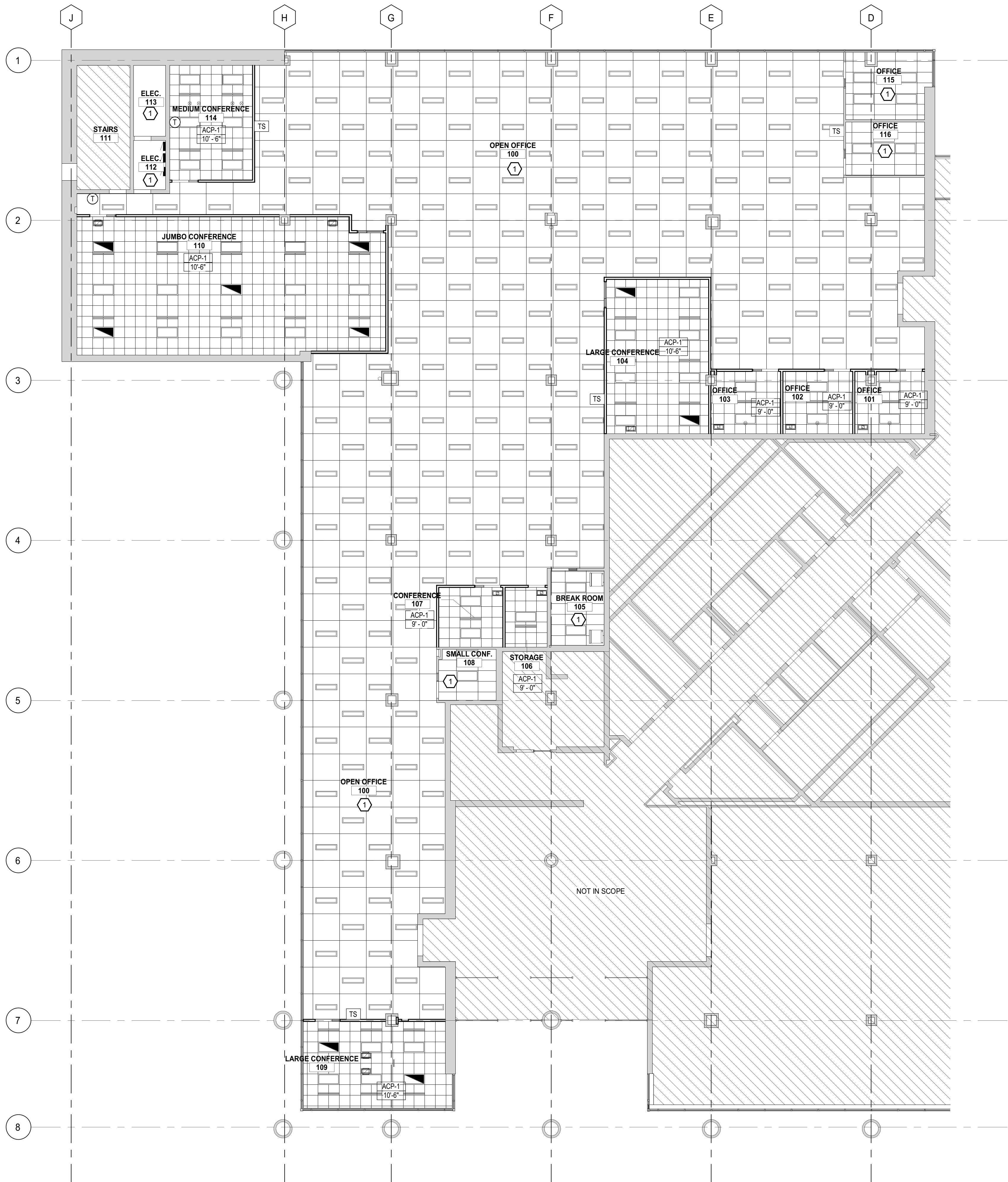
OTTAWA BUILDING - SIGMA  
MOVE TO 1ST FLOOR  
611 W. OTTAWA STREET, LANSING, MI 48933

| ISSUED FOR                                       | DATE       | DESIGNED | DRAWN | CHECKED | APPROVED |
|--------------------------------------------------|------------|----------|-------|---------|----------|
| BIDS/PERMITS <input checked="" type="checkbox"/> | 09/18/2028 | BIF      | BIF   | DM      | DM       |
| CONSTRUCTION <input type="checkbox"/>            |            |          |       |         |          |
| FINAL RECORD <input type="checkbox"/>            |            |          |       |         |          |

|                    |          |           |             |
|--------------------|----------|-----------|-------------|
| IDENTIFICATION NO. | FILE NO. | INDEX NO. | PROJECT NO. |
| 171/26231.ABG      | Y26312   |           | 26008432A   |

SHEET

A101



1 FIRST FLOOR REFLECTED CEILING PLAN  
SCALE : 3/32" = 1'-0"

## GENERAL NOTES

- REFER TO A003 FOR WALL TYPES, DETAILS, AND ADDITIONAL INFORMATION.
- REFER TO A120 SERIES DRAWINGS FOR REFLECTED CEILING PLANS AND DETAILS.
- REFER TO A140 SERIES DRAWINGS FOR FINISH PLANS, SCHEDULES, AND DETAILS.
- REFER TO A160 SERIES DRAWINGS FOR FURNITURE AND EQUIPMENT PLANS AND SCHEDULES.
- REFER TO A600 SERIES DRAWINGS FOR DOOR SCHEDULE, WINDOW SCHEDULE, DETAILS, AND BASIS OF DESIGN.
- ALL DOORS TO BE LOCATED 4" FROM DRYWALL ADJACENT WALL UNLESS OTHERWISE NOTED.
- ALIGN FACES OF MASONRY AND STUD WALLS INDICATED IN THE SAME PLANE ON PLANS, U.O.N.

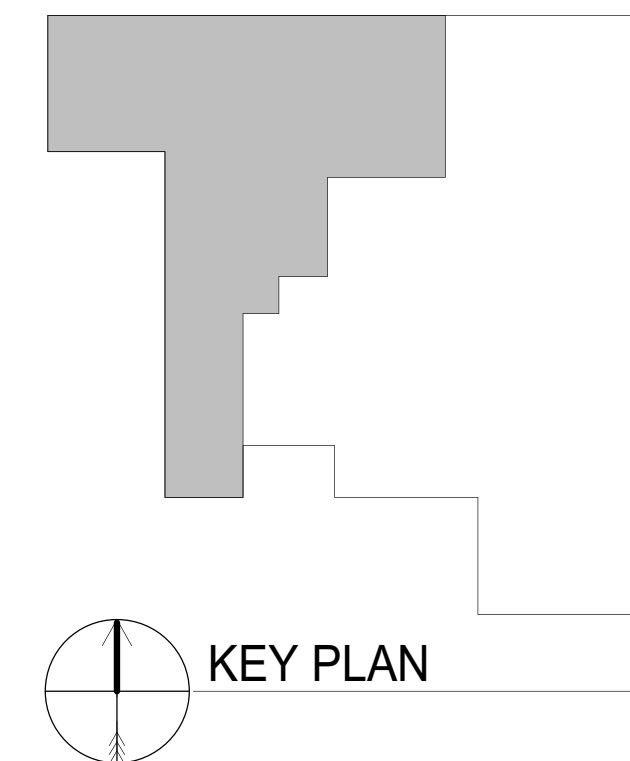
## KEYNOTES

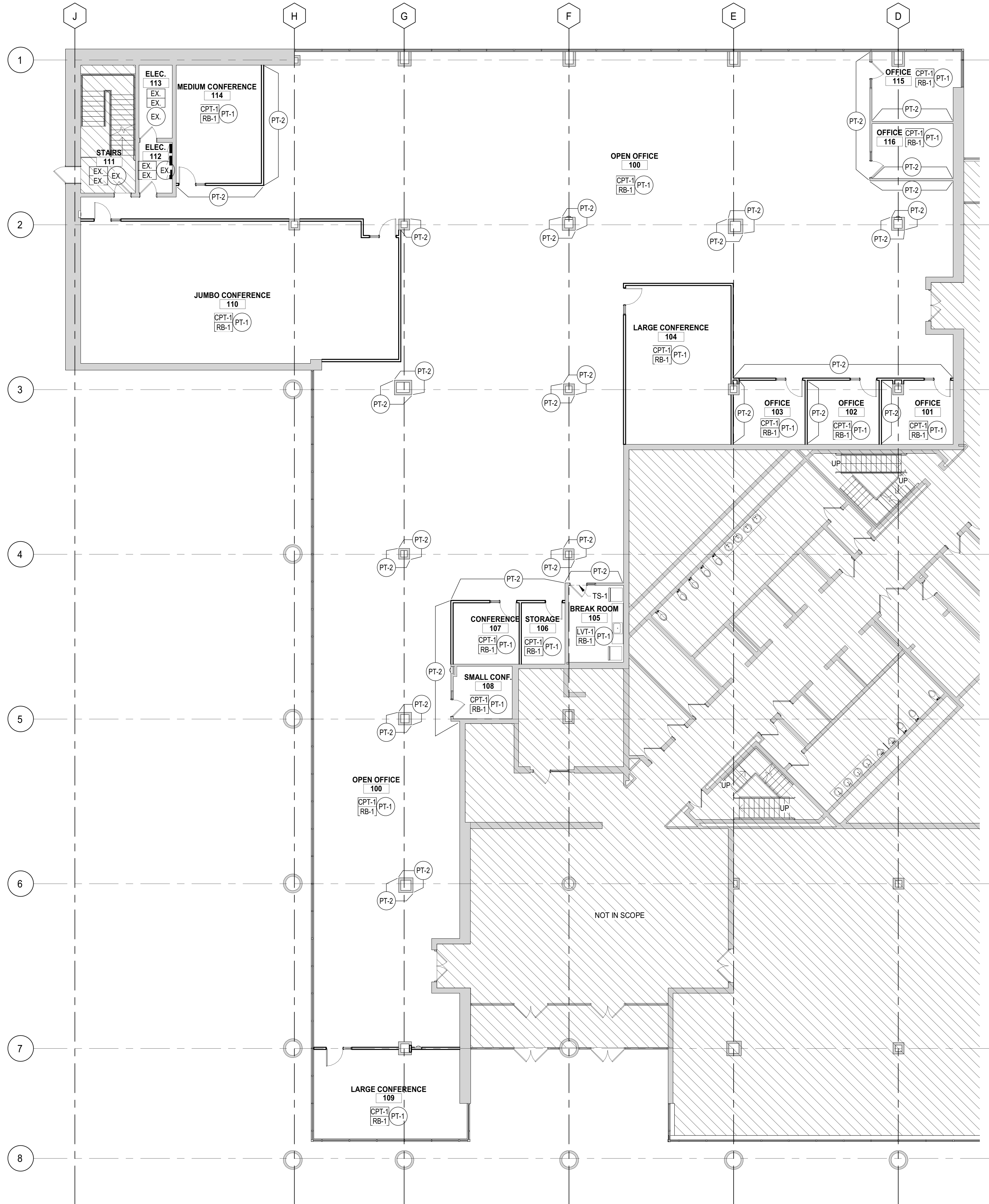
- EXISTING CEILING AND LIGHTING TO REMAIN. REPLACE DAMAGED CEILING TILES AS REQUIRED. REPLACEMENT TILES TO MATCH EXISTING.

## CEILING LEGEND

NOTE: SEE OTHER DISCIPLINE DRAWINGS (E.G. MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS) FOR ASSOCIATED SYSTEMS AND INFORMATION ABOUT SYMBOLS NOT INDICATED IN THIS LEGEND.

- 5' x 5' SUSPENDED CEILING TILE
- 2' x 2' SUSPENDED CEILING TILE
- 1' x 4' LIGHT FIXTURE
- 2' x 4' LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- MECHANICAL SUPPLY





1 FIRST FLOOR FINISH PLAN  
SCALE : 3/32" = 1'-0"

### FINISH SYMBOL LEGEND

- XX# FLOOR FINISH
- XX# WALL BASE FINISH
- XX# FLOOR FINISH ONLY
- X# GENERAL WALL FINISH
- X# ACCENT WALL FINISH - TO EXTENTS
- X# WALL FINISH ABOVE WAINSCOT
- X# WAINSCOT FINISH
- X# WINDOW TREATMENT
- X# SIGNAGE TAG

### GENERAL NOTES

- COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR PREPARING AND INSTALLING FINISHES.
- PROTECT ADJACENT WORK BY SUITABLY COVERING DURING WORK.
- REMOVE ADHESIVE OR PAINT SPOTS FROM FINISHED FLOORS, WALLS, GLASS OR OTHER SURFACES. FINISHES TO MEET OR EXCEED CODE REQUIREMENTS.
- INSTALL MATERIALS USING MANUFACTURER'S APPROVED ADHESIVES AND METHODS, U.O.N.
- FILL MINOR DRYWALL IRREGULARITIES WITH SPACKLING COMPOUND AND SAND TO A SMOOTH LEVEL SURFACE. EXERCISE CARE TO AVOID RAISING THE MAP OF PAPER
- DO NOT PERFORM PAINTING AND OTHER FINISHING WORK UNDER CONDITIONS UNSUITABLE FOR EXECUTION OF PAINTING WORK. AIR SHALL BE FREE FROM DUST AND DIRT TO PREVENT LODGING OF FOREIGN MATTER IN FRESH PAINT. FLOORS MUST BE BROOM CLEAN BEFORE PAINTING IS STARTED.
- PAINT DESIGNATIONS INDICATE COLOR ONLY, REFER TO SPECIFICATION FOR FINISH TYPE.
- EDGES OF PAINT ADJOINING OTHER COLORS OR MATERIALS TO BE SHARP AND CLEAN WITHOUT OVERLAP.
- EXAMINE SURFACES TO RECEIVE PAINT CAREFULLY FOR DEFECTS. DO NOT PROCEED WITH WORK UNTIL DEFECTS ARE CORRECTED.
- WHENEVER NECESSARY TO OBTAIN REQUIRED RESULTS, REFINISH AN ENTIRE WALL RATHER THAN SPOT FINISHING WHERE A PORTION OF THE FINISH HAS BEEN DAMAGED OR IS UNSATISFACTORY.
- PREPARE FLOOR SURFACES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
  - PREPARE/PROPERLY REPAIR AND PATCH SUBFLOORS TO A SMOOTH AND LEVEL FINISH.
  - FLASH PATCH AS REQUIRED, READY TO RECEIVE NEW FINISH.
- PROVIDE SELF LEVELING TROWELABLE UNDERLAYMENT WHERE REQUIRED TO OBTAIN FINISH MANUFACTURER'S REQUIRED SUBFLOOR CONDITION.
- FOLLOW THE CARPET AND RUG INSTITUTE METHODS OF INSTALLATION.
- INSTALL TILE PER THE TILE COUNCIL OF NORTH AMERICA'S INSTALLATION SPECIFICATIONS.
- PROVIDE THE REQUIRED TRANSITIONS BASED ON TYPES IDENTIFIED ON DRAWINGS AT EACH FINISH TRANSITION LOCATION
- CENTER FLOOR MATERIAL TRANSITIONS ON DOOR ABOVE.
- FINISHED FLOORS EXTEND INTO TOE SPACES, CLOSETS, DOOR REVEALS AND SIMILAR OPENINGS.
- REFER TO REFLECTED CEILING PLANS FOR CEILING FINISHES.
- REFER TO ELEVATIONS FOR MILLWORK FINISHES.

| ROOM FINISH SCHEDULE |                   |       |      |             |           |           |           |                |         |
|----------------------|-------------------|-------|------|-------------|-----------|-----------|-----------|----------------|---------|
| ROOM                 |                   | FLOOR | BASE | WALL FINISH |           |           |           | CEILING FINISH | REMARKS |
| NUMBER               | NAME              |       |      | NORTH       | EAST      | SOUTH     | WEST      |                |         |
| FIRST FLOOR          |                   |       |      |             |           |           |           |                |         |
| 100                  | OPEN OFFICE       | CPT-1 | RB-1 | PT-1/PT-2   | PT-1/PT-2 | PT-1/PT-2 | PT-1/PT-2 | EXIST.         |         |
| 101                  | OFFICE            | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-2      | APC-1          |         |
| 102                  | OFFICE            | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-2      | APC-1          |         |
| 103                  | OFFICE            | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-2      | APC-1          |         |
| 104                  | LARGE CONFERENCE  | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-1      | APC-1          |         |
| 105                  | BREAK ROOM        | LVT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-1      | EXIST.         |         |
| 106                  | STORAGE           | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-1      | APC-1          |         |
| 107                  | CONFERENCE        | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-1      | APC-1          |         |
| 108                  | SMALL CONF.       | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-1      | EXIST.         |         |
| 109                  | LARGE CONFERENCE  | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-1      | APC-1          |         |
| 110                  | JUMBO CONFERENCE  | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-1      | APC-1          |         |
| 111                  | STAIRS            | EX.   | EX.  | EX.         | EX.       | EX.       | EX.       | EXIST.         |         |
| 112                  | ELEC.             | EX.   | EX.  | EX.         | EX.       | EX.       | EX.       | EXIST.         |         |
| 113                  | ELEC.             | EX.   | EX.  | EX.         | EX.       | EX.       | EX.       | EXIST.         |         |
| 114                  | MEDIUM CONFERENCE | CPT-1 | RB-1 | PT-1        | PT-1      | PT-1      | PT-1      | APC-1          |         |
| 115                  | OFFICE            | CPT-1 | RB-1 | PT-1        | PT-1      | PT-2      | PT-1      | EXIST.         |         |
| 116                  | OFFICE            | CPT-1 | RB-1 | PT-1        | PT-1      | PT-2      | PT-1      | EXIST.         |         |

### BASIS OF DESIGN

#### 08 14 16 FLUSH WOOD DOORS

**WD-1**  
MANUFACTURER: FORTE  
STYLE: CENDURA SERIES  
TYPE: MATCH EXISTING  
COLOR: MATCH EXISTING

#### 09 51 13 ACOUSTIC PANEL CEILINGS

**ACT-1**  
MANUFACTURER: ARMSTRONG  
TYPE: CIRRUS ANGLED TEGULAR HUMIGUARD PLUS  
SIZE: 2' X 2'  
GRID: MATCH EXISTING  
COLOR: WHITE

#### 09 65 00 RESILIENT FLOORING

**LVT-1**  
MANUFACTURER: TARKETT  
STYLE: ID LATITUDE STONE AND CONCRETE  
COLOR: WEATHERED GLAZE 7549  
SIZE: 18" X 18"  
PATTERN: HORIZONTAL ASHLAR  
NOTE: PROVIDED AND INSTALLED BY STATE - INSTALLATION TO BE COORDINATED WITH G.C.

#### 09 65 13 RESILIENT BASE AND ACCESSORIES

**RB-1**  
MANUFACTURER: JOHNSONITE  
STYLE: TRADITIONAL VINYL 1/8" (TYPE TV)  
SIZE: 4" TOE  
COLOR: TOAST 283  
NOTE: PROVIDED AND INSTALLED BY STATE - INSTALLATION TO BE COORDINATED WITH G.C.

### BASIS OF DESIGN - CONTINUED

#### 09 65 13 RESILIENT BASE AND ACCESSORIES

**TS-1**  
MANUFACTURER: JOHNSONITE  
STYLE: ADAPTOR  
COLOR: TOAST 283  
NOTE: PROVIDED AND INSTALLED BY STATE - INSTALLATION TO BE COORDINATED WITH G.C.

#### 09 68 13 TILE CARPETING

**CPT-1**  
MANUFACTURER: TARKETT  
PATTERN: TEXTURE MAP 1129  
COLOR: NOCTURNAL 42807  
SIZE: 24" X 24" VERTICAL ASHLAR  
NOTE: PROVIDED AND INSTALLED BY STATE - INSTALLATION TO BE COORDINATED WITH G.C.

#### 09 91 23 INTERIOR PAINTING

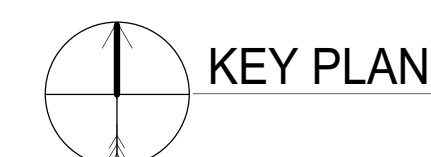
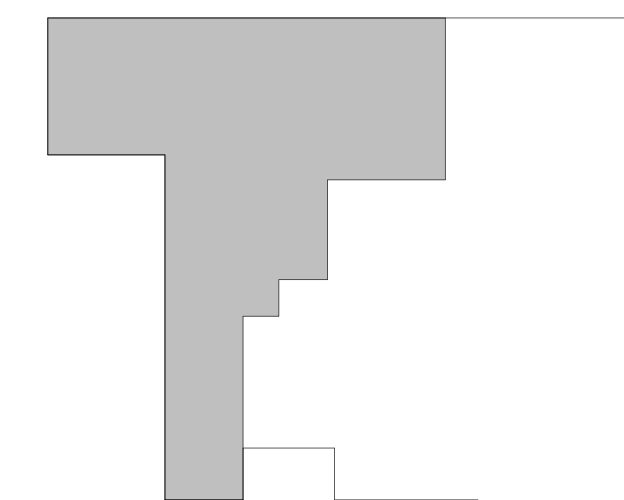
**PT-1**  
MANUFACTURER: SHERWIN WILLIAMS  
COLOR: ACCESSIBLE BEIGE SW7036  
FINISH: EGGSHELL  
LOCATION: FIELD PAINT COLOR

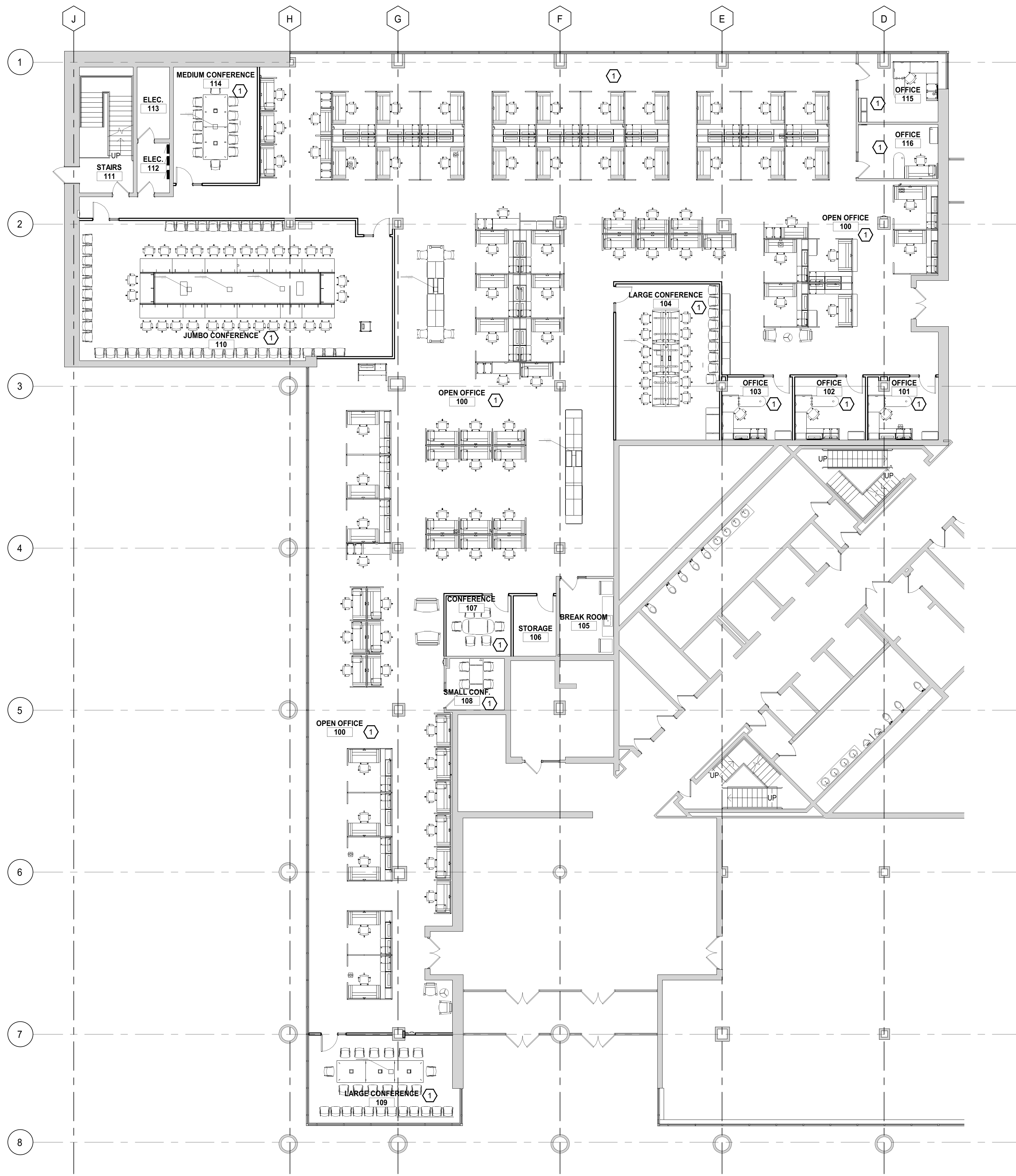
**PT-2**  
MANUFACTURER: SHERWIN WILLIAMS  
COLOR: DENIM SW 6523  
FINISH: EGGSHELL  
LOCATION: ACCENT PAINT COLOR

**PT-3**  
MANUFACTURER: SHERWIN WILLIAMS  
COLOR: QUIVER TAN SW6151  
FINISH: SEMI-GLOSS  
LOCATION: DOOR FRAMES AND CLERESTORY WINDOWS

#### 12 24 13 ROLLER WINDOW SHADES

**RS-1**  
NOTE: EXISTING TO REMAIN





KEYNOTES

- 1 FURNITURE, FIXTURES AND EQUIPMENT TO BE RELOCATED BY DBI.  
INSTALLATION AND ELECTRICAL CONNECTIONS TO BE  
COORDINATED WITH G.C.

1 FIRST FLOOR FFE PLAN  
SCALE : 3/32" = 1'-0"

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM LACH, R.A., NCARB, DIRECTOR

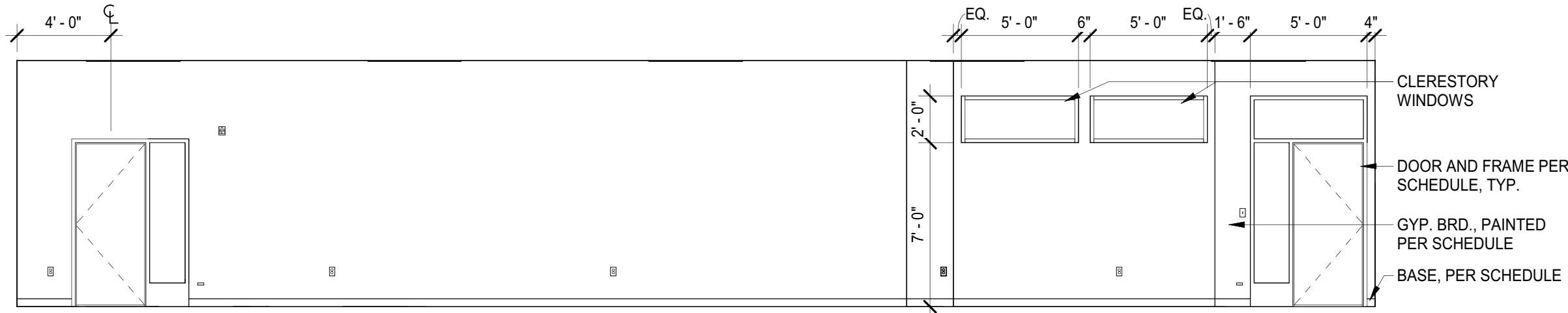


Engineering  
& Design

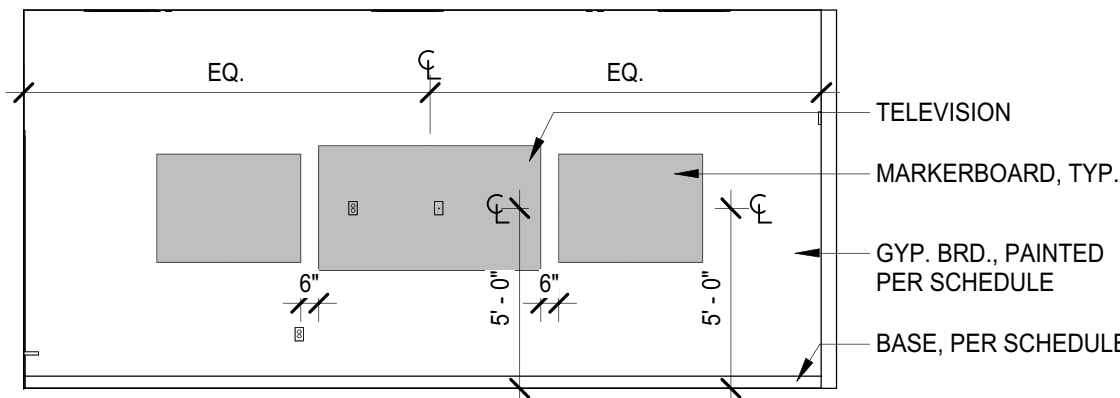
Colliers  
2000 West Square Hwy.  
Lansing, MI 48207  
office 517.627.2827  
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OTTAWA BUILDING - SIGMA  
MOVE TO 1ST FLOOR  
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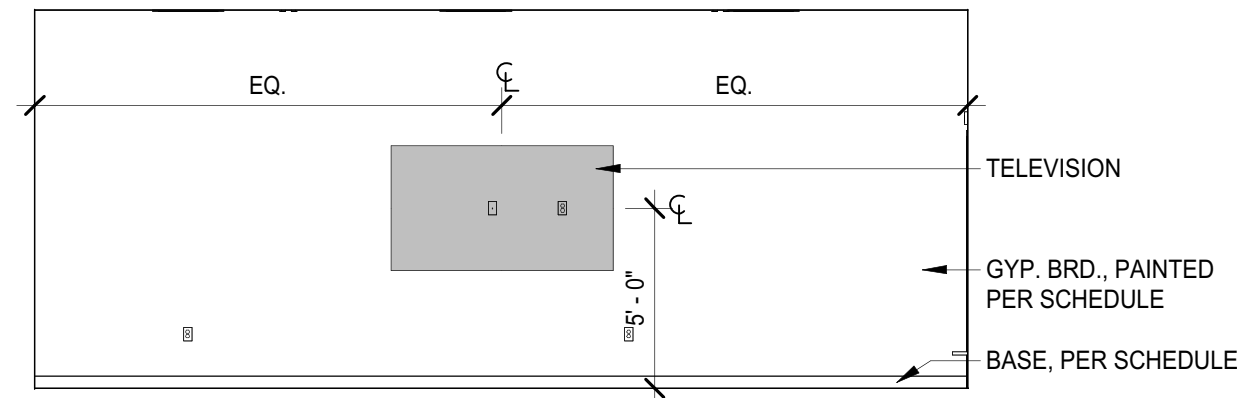
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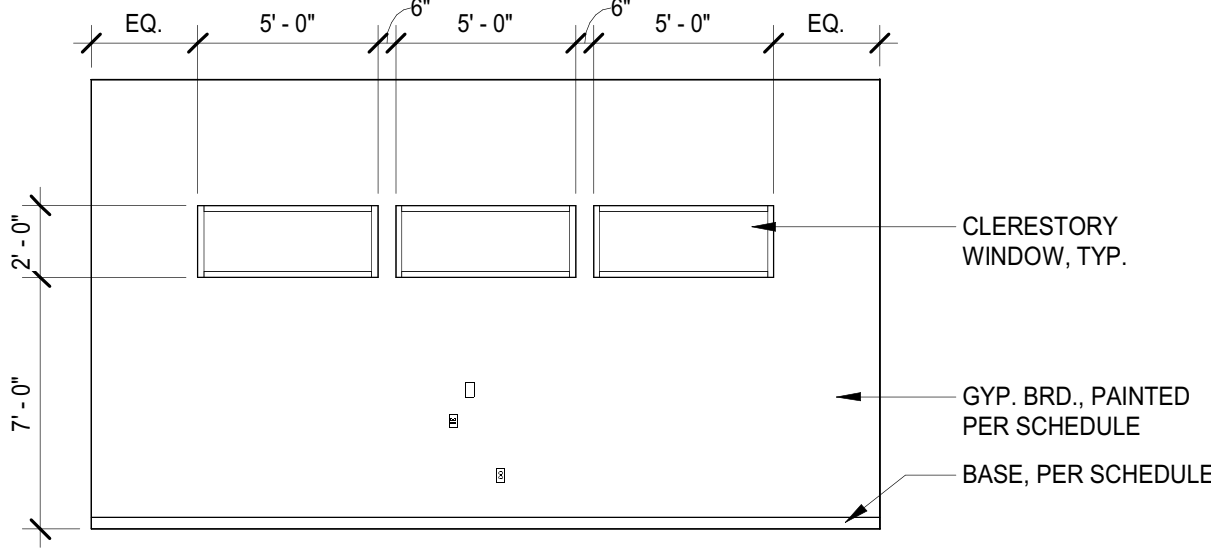
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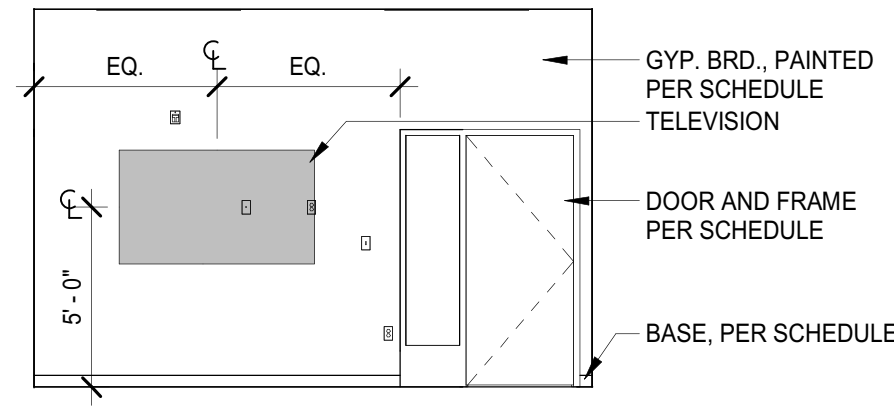
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SCALE : 3/16" = 1'-0"



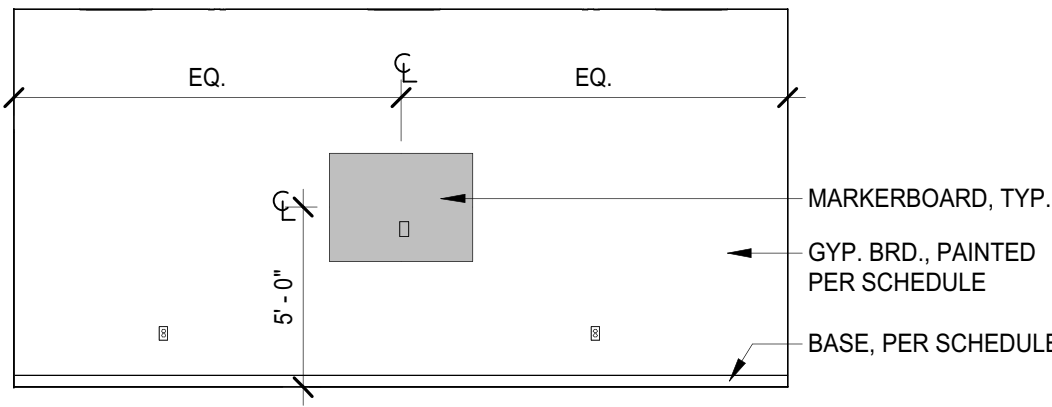
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SCALE : 3/16" = 1'-0"



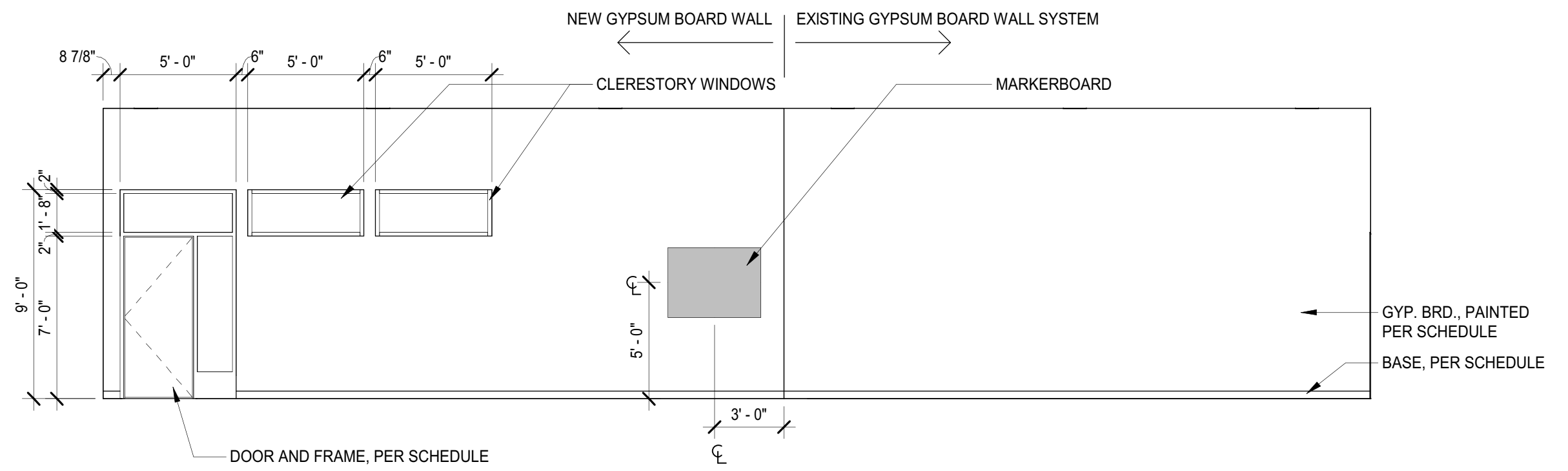
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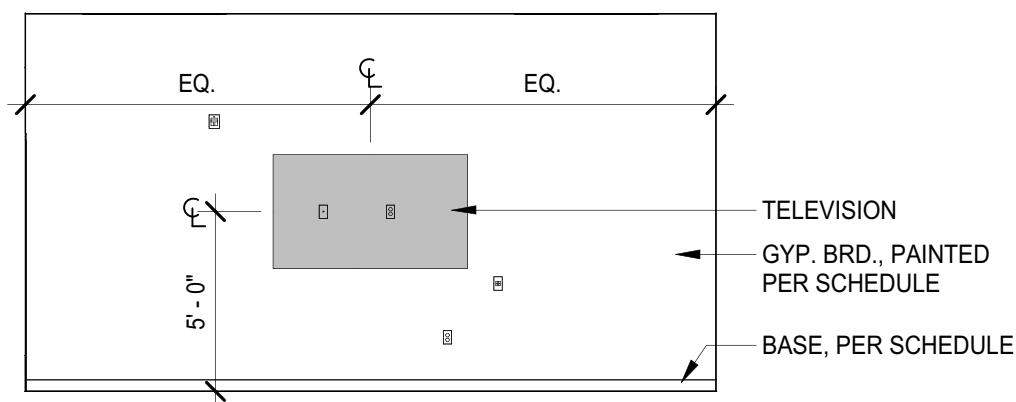
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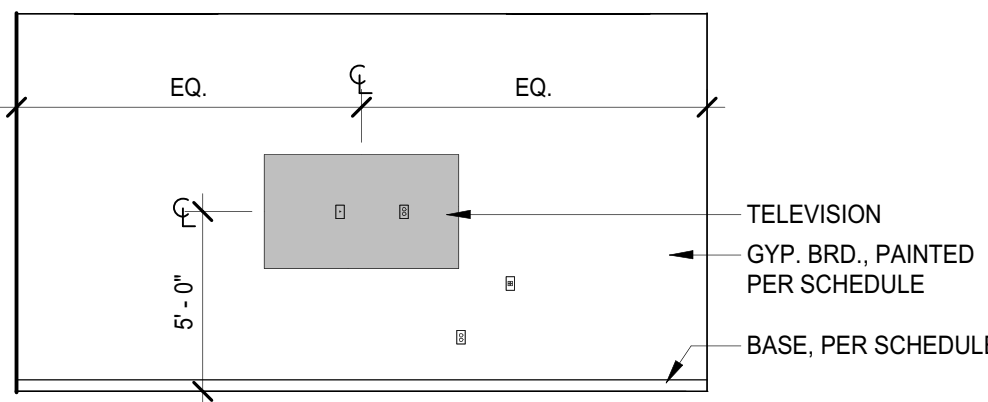
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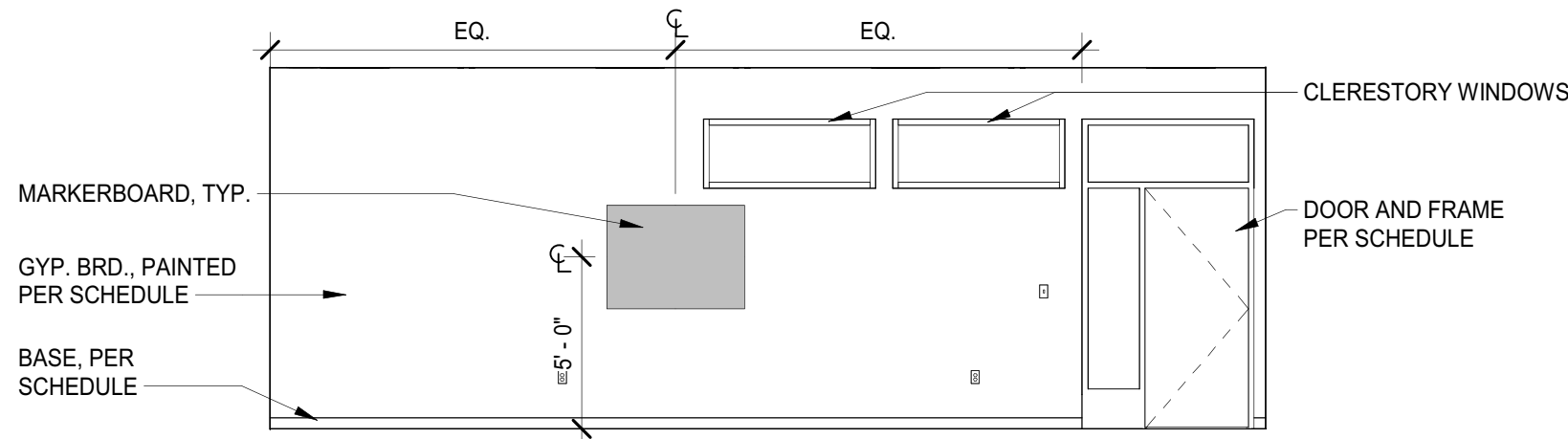
7 OPEN OFFICE ELEVATION  
SCALE : 3/16" = 1'-0"



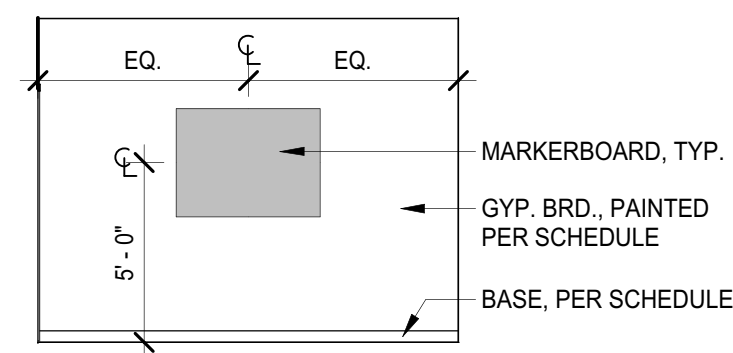
8 LARGE CONF. 104 - NORTH WALL  
SCALE : 3/16" = 1'-0"



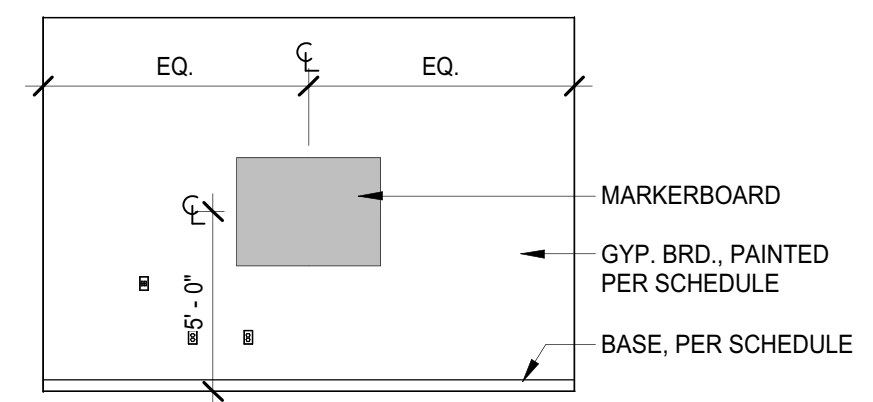
9 LARGE CONF. 104 - SOUTH WALL  
SCALE : 3/16" = 1'-0"



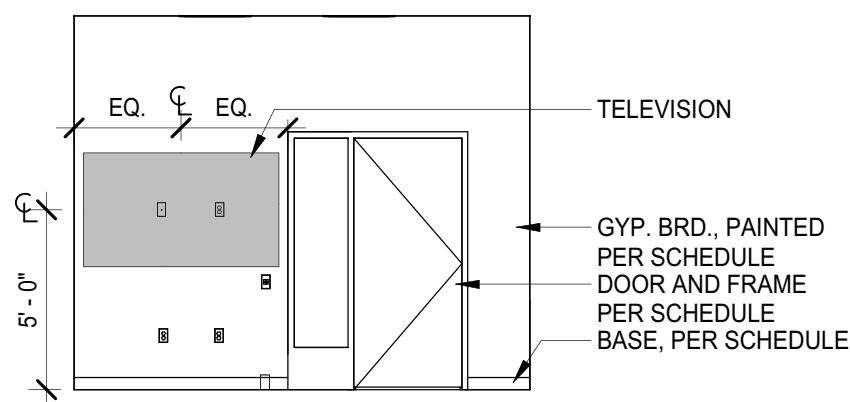
10 LARGE CONF. 104 - WEST WALL  
SCALE : 3/16" = 1'-0"



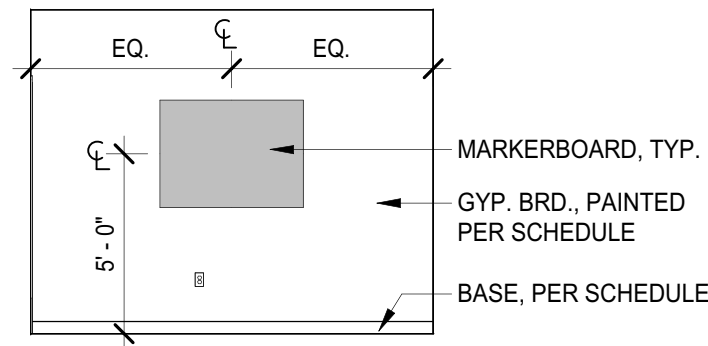
11 OFFICE - TYP. EAST WALL  
SCALE : 3/16" = 1'-0"



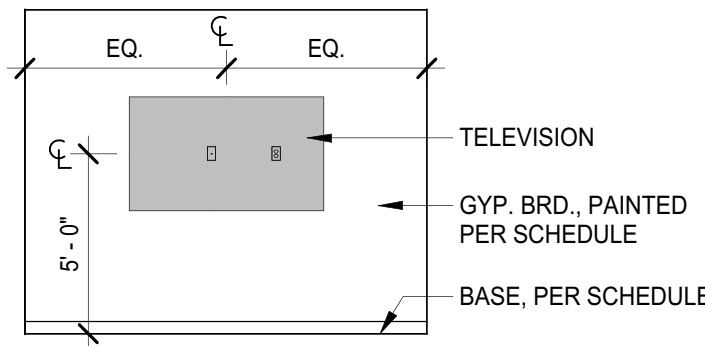
12 OFFICE 115 - SOUTH WALL  
SCALE : 3/16" = 1'-0"



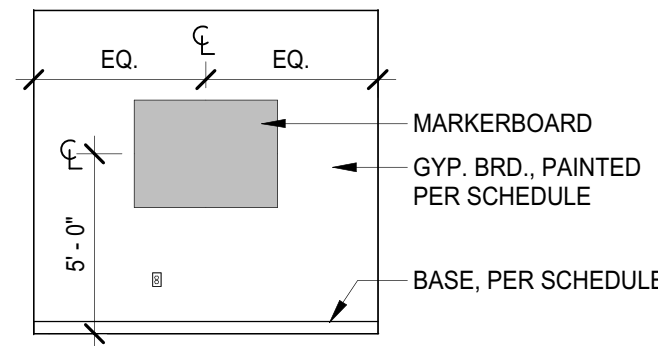
13 OFFICE 115 - WEST WALL  
SCALE : 3/16" = 1'-0"



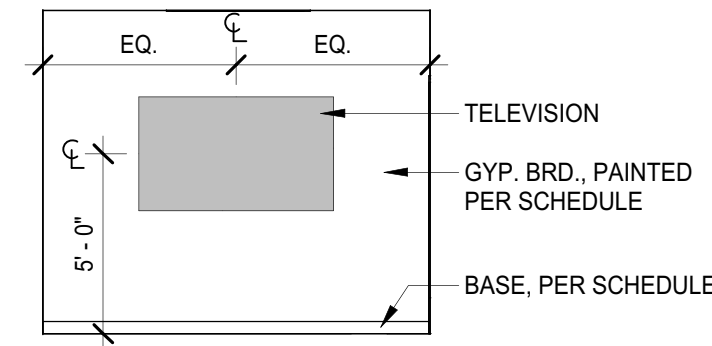
14 CONF. 107 EAST WALL  
SCALE : 3/16" = 1'-0"



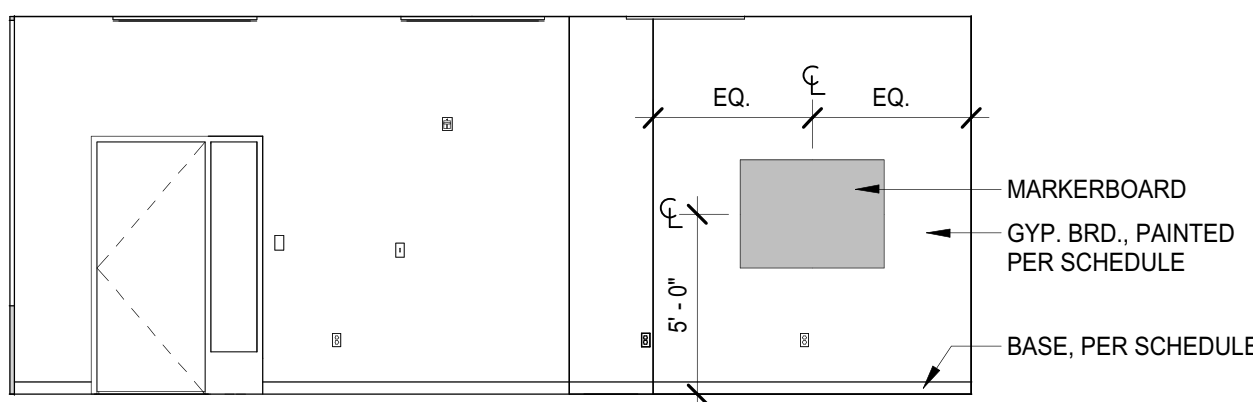
15 CONF. 107 - WEST WALL  
SCALE : 3/16" = 1'-0"



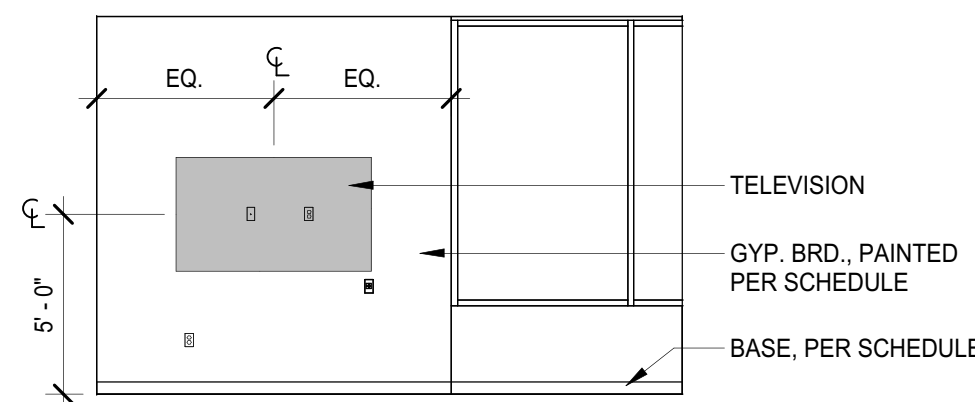
16 SMALL CONF. 108 - EAST WALL  
SCALE : 3/16" = 1'-0"



17 SMALL CONF. 108 - SOUTH WALL  
SCALE : 3/16" = 1'-0"



18 LARGE CONF. 109 - NORTH WALL  
SCALE : 3/16" = 1'-0"



19 LARGE CONF. 109 - EAST WALL  
SCALE : 3/16" = 1'-0"



HARDWARE SCHEDULE

SET 01 (OFFICE)

FOR USE ON DOOR #(s): 101 102 103

(3) HINGES  
(1) OFFICE LEVER LOCKSET  
(1) BUILDING STANDARD CORE - COORDINATE KEYING WITH DTMB  
(1) DOORSTOP  
(1) SET DOOR SILENCERS

SET 02 (STORAGE)

FOR USE ON DOOR #(s): 106

(3) HINGES  
(1) STORAGE LEVER LOCKSET  
(1) BUILDING STANDARD CORE - COORDINATE KEYING WITH DTMB  
(1) DOORSTOP  
(1) SURFACE CLOSER  
(1) SET DOOR SILENCERS

SET 03 (PASSAGE)

FOR USE ON DOOR #(s): 104 107 109 110A 110B 114

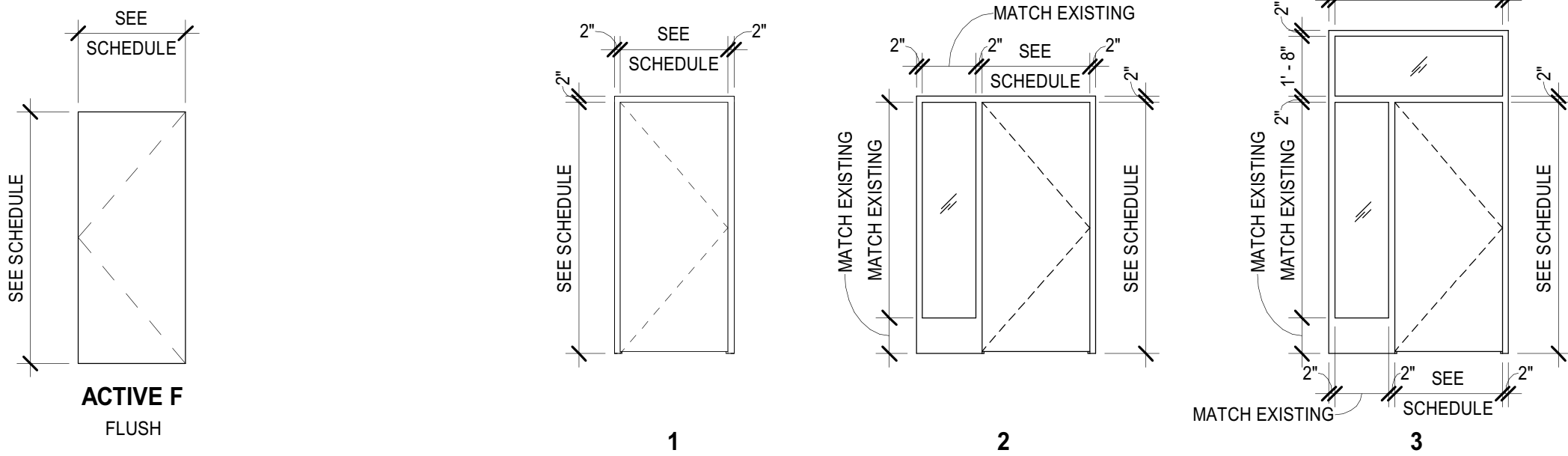
(3) HINGES  
(1) PASSAGE LEVER LOCKSET  
(1) DOORSTOP  
(1) SET DOOR SILENCERS

DOOR SCHEDULE

| DOOR #      | LOCATION          |  | OPENING SIZE |         | DOOR LEAF INFORMATION |          |          | FRAME INFORMATION |          |             | HARDWARE GROUP | COMMENTS |
|-------------|-------------------|--|--------------|---------|-----------------------|----------|----------|-------------------|----------|-------------|----------------|----------|
|             | TO NAME           |  | WIDTH        | HEIGHT  | THICKNESS             | TYPE     | MATERIAL | TYPE              | MATERIAL | JAMB DETAIL |                |          |
| FIRST FLOOR |                   |  |              |         |                       |          |          |                   |          |             |                |          |
| 100A        | OPEN OFFICE       |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         | 3        |
| 100B        | OPEN OFFICE       |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         | 2        |
| 101         | OFFICE            |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 2                 | HM - PT  | A           | 01             | 1        |
| 102         | OFFICE            |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 2                 | HM - PT  | A           | 01             | 1        |
| 103         | OFFICE            |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 2                 | HM - PT  | A           | 01             | 1        |
| 104         | LARGE CONFERENCE  |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 3                 | HM - PT  | A           | 03             | 1        |
| 105         | BREAK ROOM        |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         |          |
| 106         | STORAGE           |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 1                 | HM - PT  | A           | 02             | 1,4      |
| 107         | CONFERENCE        |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 2                 | HM - PT  | A           | 03             | 1,4      |
| 108         | SMALL CONF.       |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         |          |
| 109         | LARGE CONFERENCE  |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 2                 | HM - PT  | A           | 03             | 1        |
| 110A        | JUMBO CONFERENCE  |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 3                 | HM - PT  | A           | 03             |          |
| 110B        | JUMBO CONFERENCE  |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 2                 | HM - PT  | A           | 03             | 1        |
| 111         | STAIRS            |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         |          |
| 112         | ELEC.             |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         |          |
| 113         | ELEC.             |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         |          |
| 114         | MEDIUM CONFERENCE |  | 3' - 0"      | 7' - 0" | 1 3/4"                | Active F | WD - ST  | 2                 | HM - PT  | A           | 03             | 1        |
| 115         | OFFICE            |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         |          |
| 116         | OFFICE            |  | EXIST.       | EXIST.  | EXIST.                | EXIST.   | EXIST.   | EXIST.            | EXIST.   | EXIST.      | EXIST.         |          |

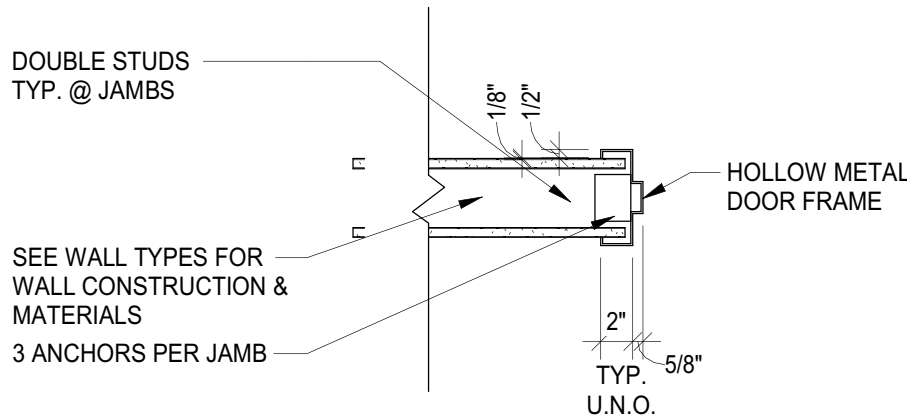
DOOR AND HARDWARE NOTES

| NO. | COMMENTS                                                                |
|-----|-------------------------------------------------------------------------|
| 1   | NEW DOOR FINISH TO MATCH EXISTING                                       |
| 2   | DOOR ACCESS CONTROL FOR SIGMA EMPLOYEES ONLY                            |
| 3   | DOOR ACCESS CONTROL FOR SIGMA EMPLOYEES AND STATE OF MICHIGAN EMPLOYEES |
| 4   | INSTALL SALVAGED DOOR AND FRAME                                         |

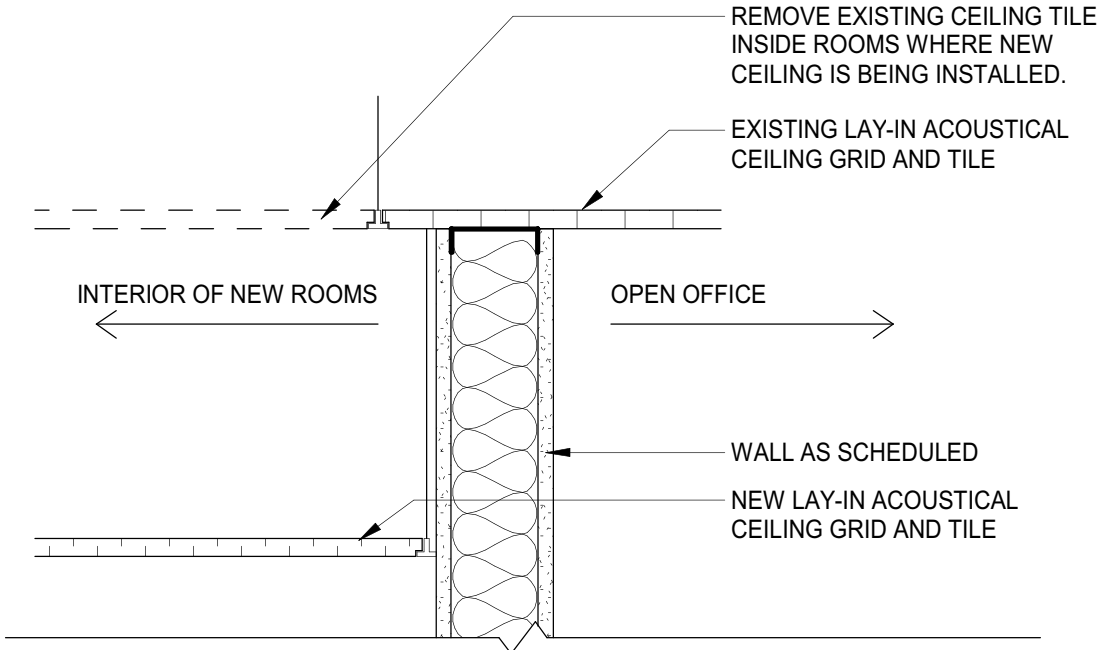


DOOR - TYPES

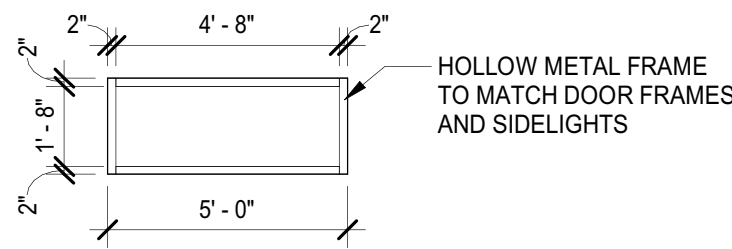
DOOR - FRAME TYPES



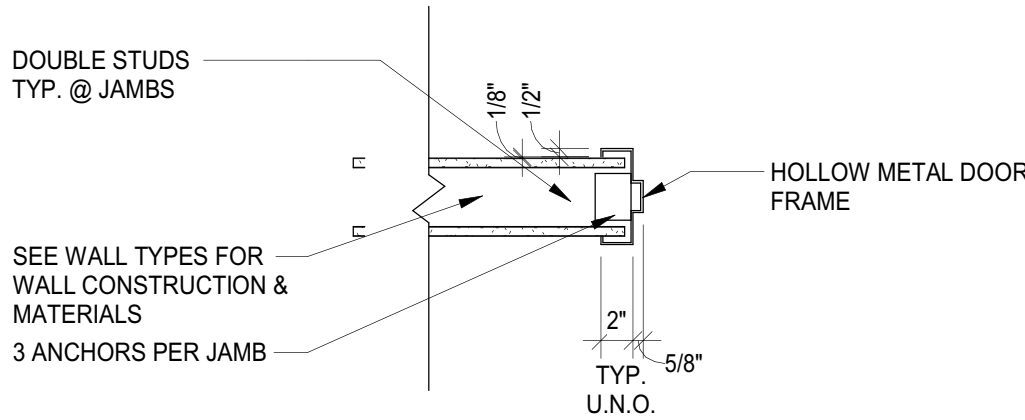
DOOR - JAMB DETAILS



WALL DETAIL



TYPICAL CLERESTORY WINDOW



CLERESTORY WINDOW - FRAME DETAIL



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Colliers  
2000 West Saginaw Hwy  
Lansing, MI 48107  
office 517-827-8872  
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OTTAWA BUILDING - SIGMA  
MOVE TO 1ST FLOOR

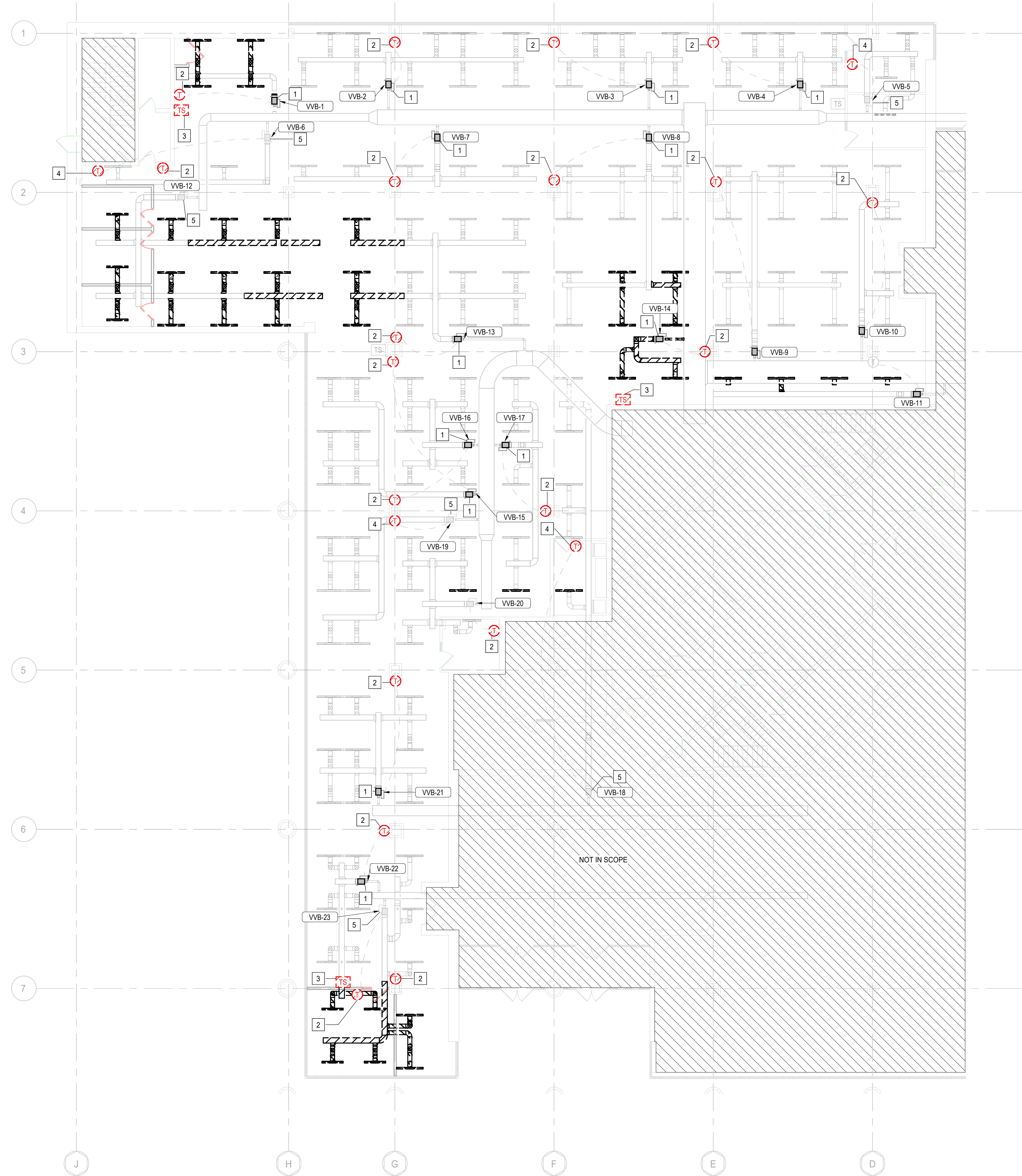
611 W. OTTAWA STREET, LANSING, MI 48933

|              |          |            |              |          |            |
|--------------|----------|------------|--------------|----------|------------|
| ISSUED FOR   | DESIGNED | DATE       | ISSUED FOR   | DESIGNED | DATE       |
| BIDS/PERMITS | BIF      | 09/18/2028 | BIDS/PERMITS | BIF      | 09/18/2028 |
| CONSTRUCTION | DM       |            | CONSTRUCTION | DM       |            |
| FINAL RECORD | DM       |            | FINAL RECORD | DM       |            |

|                    |          |           |             |
|--------------------|----------|-----------|-------------|
| IDENTIFICATION NO. | FILE NO. | INDEX NO. | PROJECT NO. |
| 171/26231.ABG      | Y26312   |           | 26008432A   |

SHEET  
A602





1 HVAC DEMOLITION PLAN  
SCALE : 3/32" = 1'-0"

## GENERAL NOTES

A. LINEAR SLOT DIFFUSERS TO BE REMOVED FROM EXISTING CEILING GRID WHEREVER NEW ROOMS ARE TO BE INSTALLED OR WHERE LOWER CEILING AREAS ARE TO BE INSTALLED.

## KEYNOTES#

1. EXISTING PNEUMATICALLY CONTROLLED VAV BOX TO BE REMOVED.
2. EXISTING PNEUMATIC THERMOSTAT TO BE REMOVED.
3. EXISTING DDC TEMPERATURE SENSOR TO BE RELOCATED.
4. EXISTING DDC THERMOSTAT TO BE REMOVED.
5. EXISTING DDC VAV BOX TO REMAIN.

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM LACH, R.A., NCARB, DIRECTOR



Engineering  
& Design

Colliers  
7000 West Square Hwy  
Lansing, MI 48217  
office: 517.827.2872  
www.colliersengineering.com

OTTAWA BUILDING - SIGMA  
MOVE TO 1ST FLOOR  
611 W. OTTAWA STREET, LANSING, MI 48933

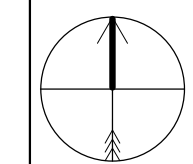
DESIGNED: CWH  
DRAWN: CWH  
CHECKED: MJP  
APPROVED: MJP

DATE  
09/18/2026

ISSUED FOR  
BIDDING/PERMIT ☒  
CONSTRUCTION ☐  
FINAL RECORD ☐

IDENTIFICATION NO.  
FILE NO. 171/26231.ABG  
INDEX NO. Y26312  
PROJECT NO. 26008532A

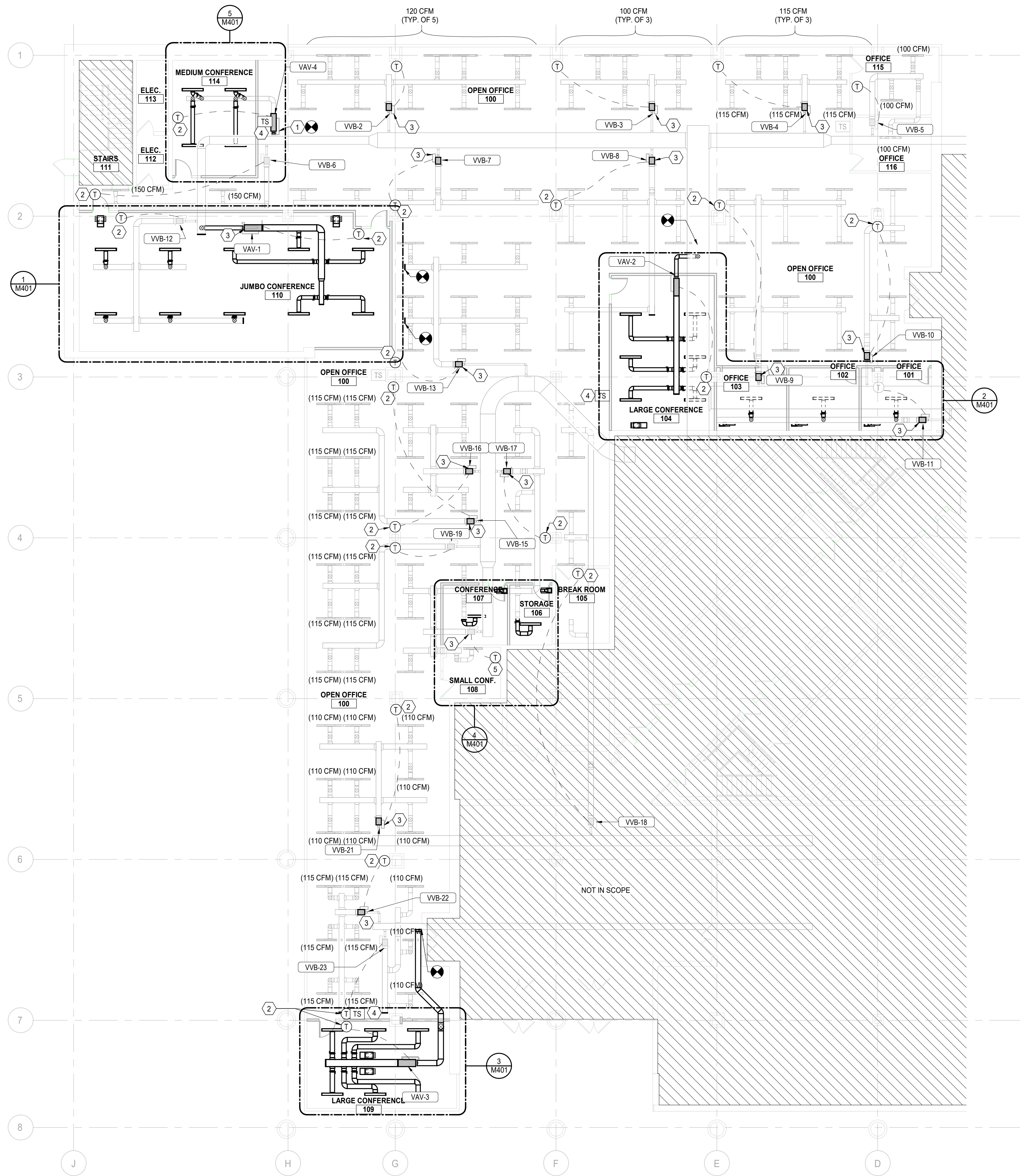
SHEET  
MD101



1

1ST FLOOR HVAC PLAN

SCALE : 3/32" = 1'-0"



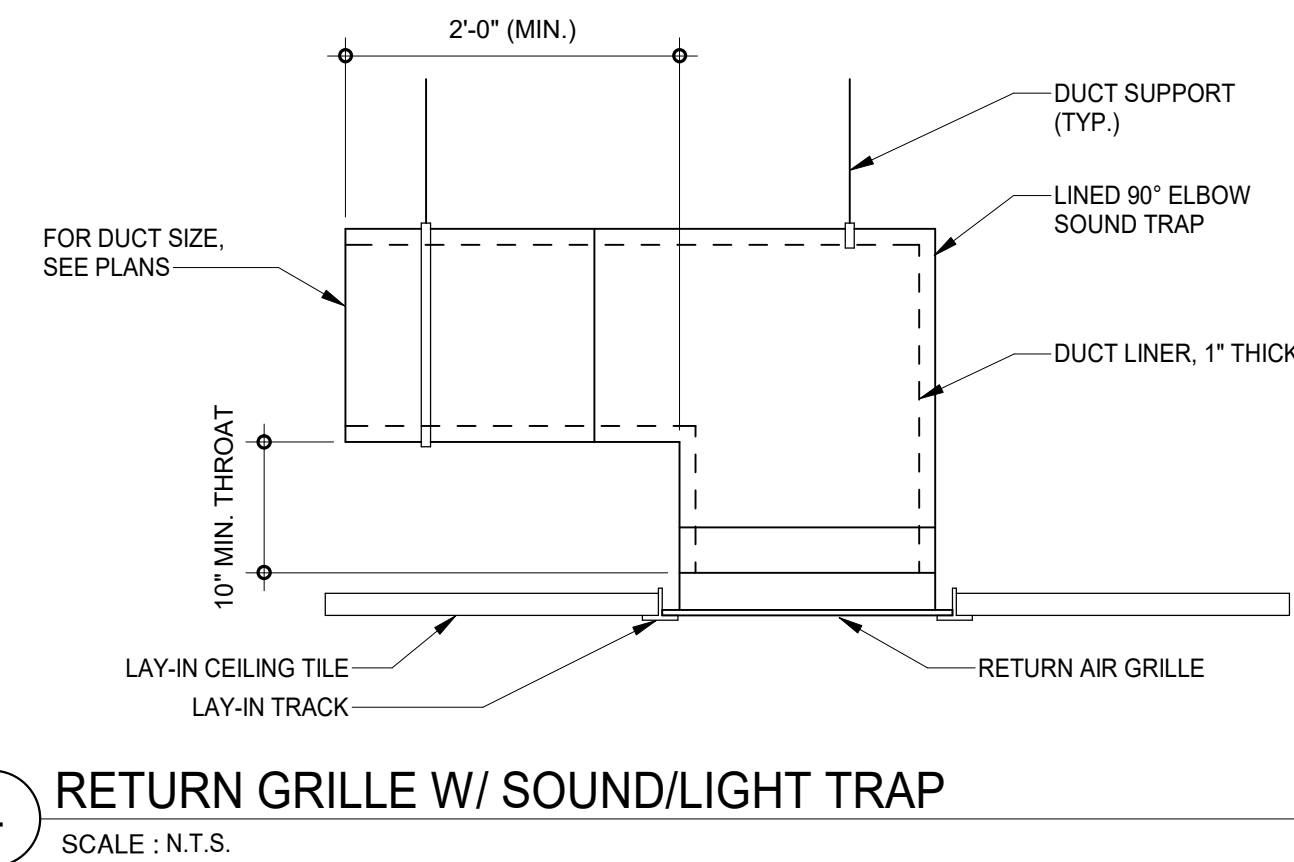
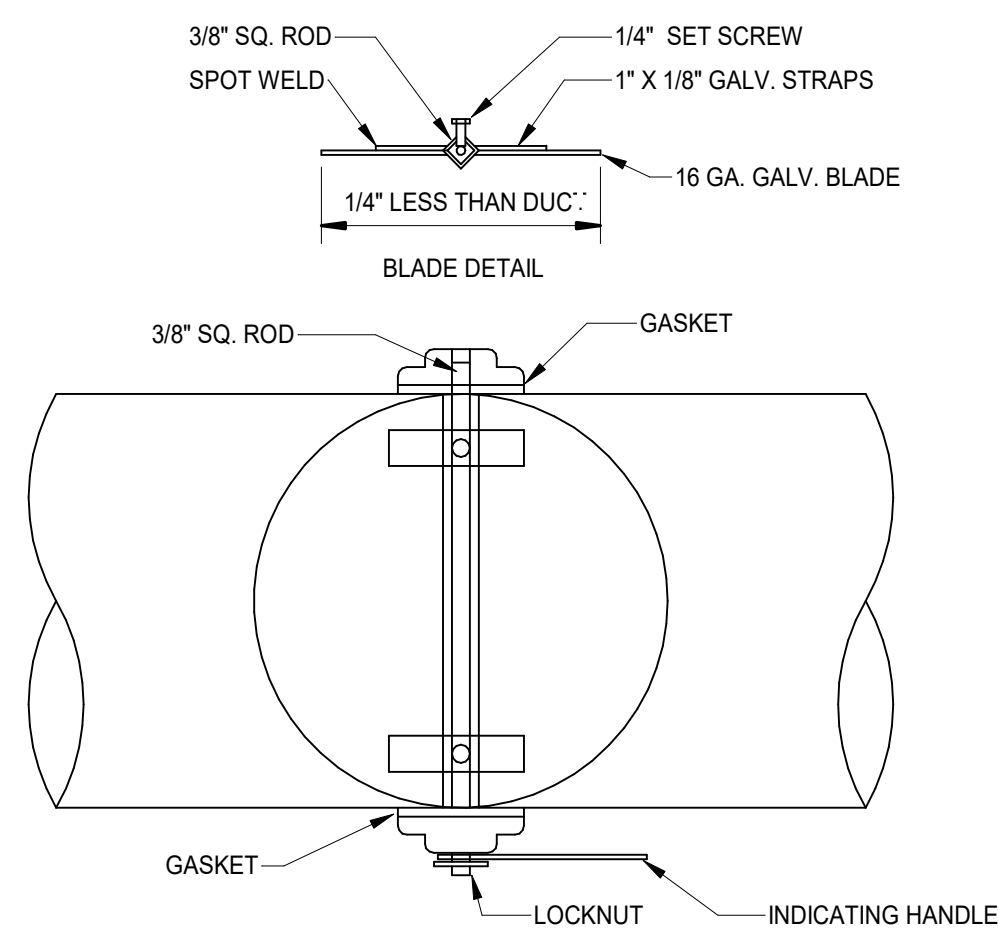
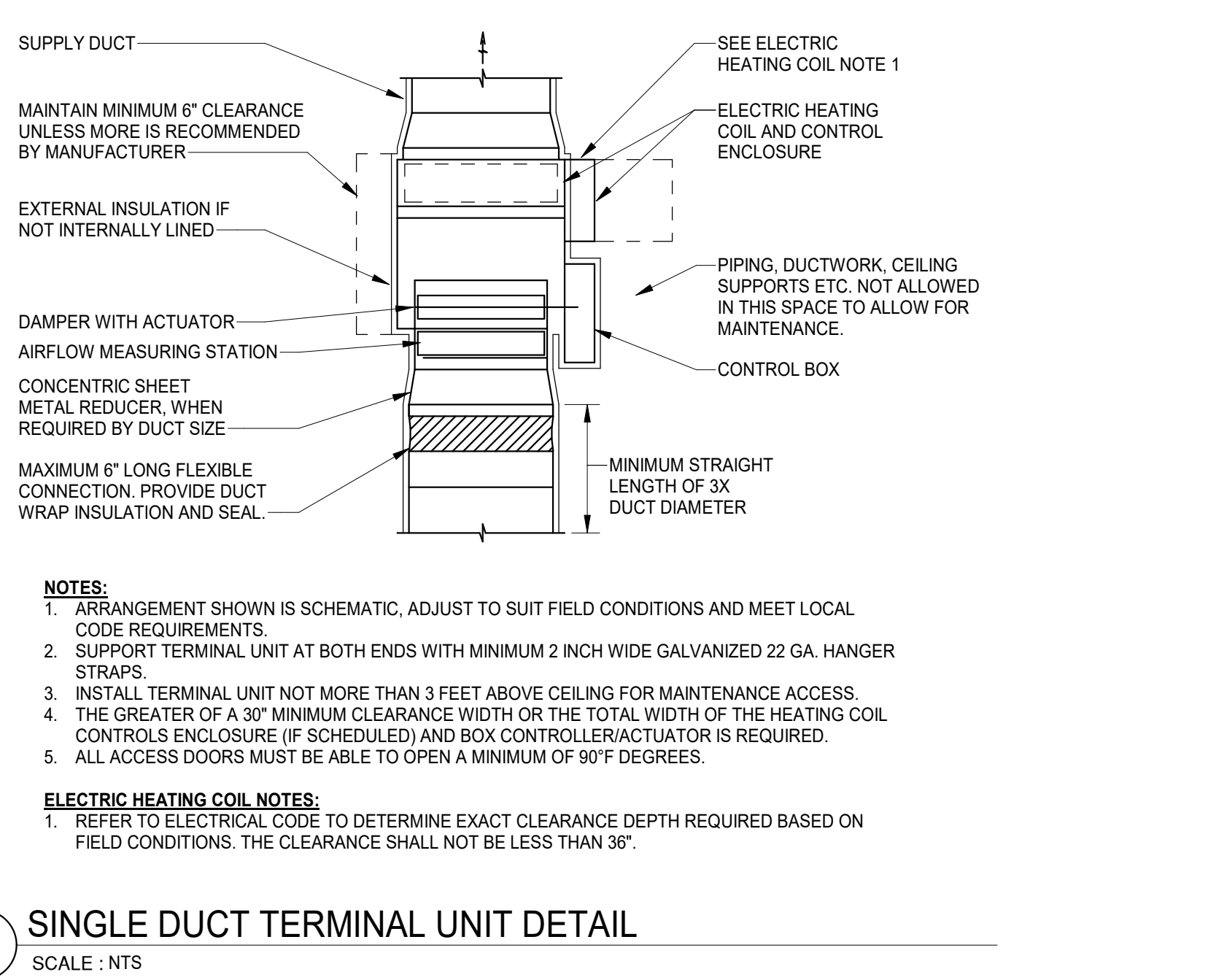
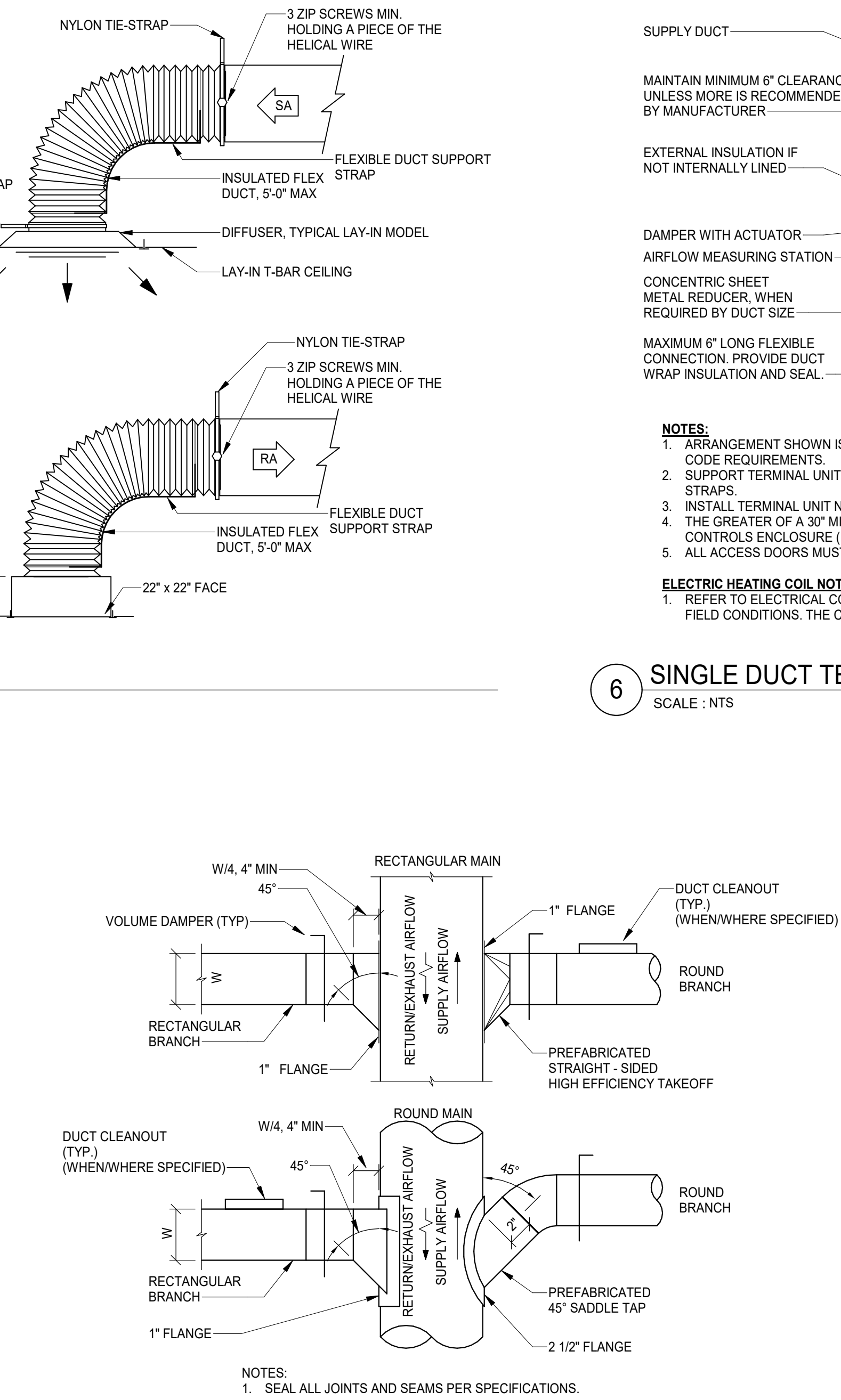
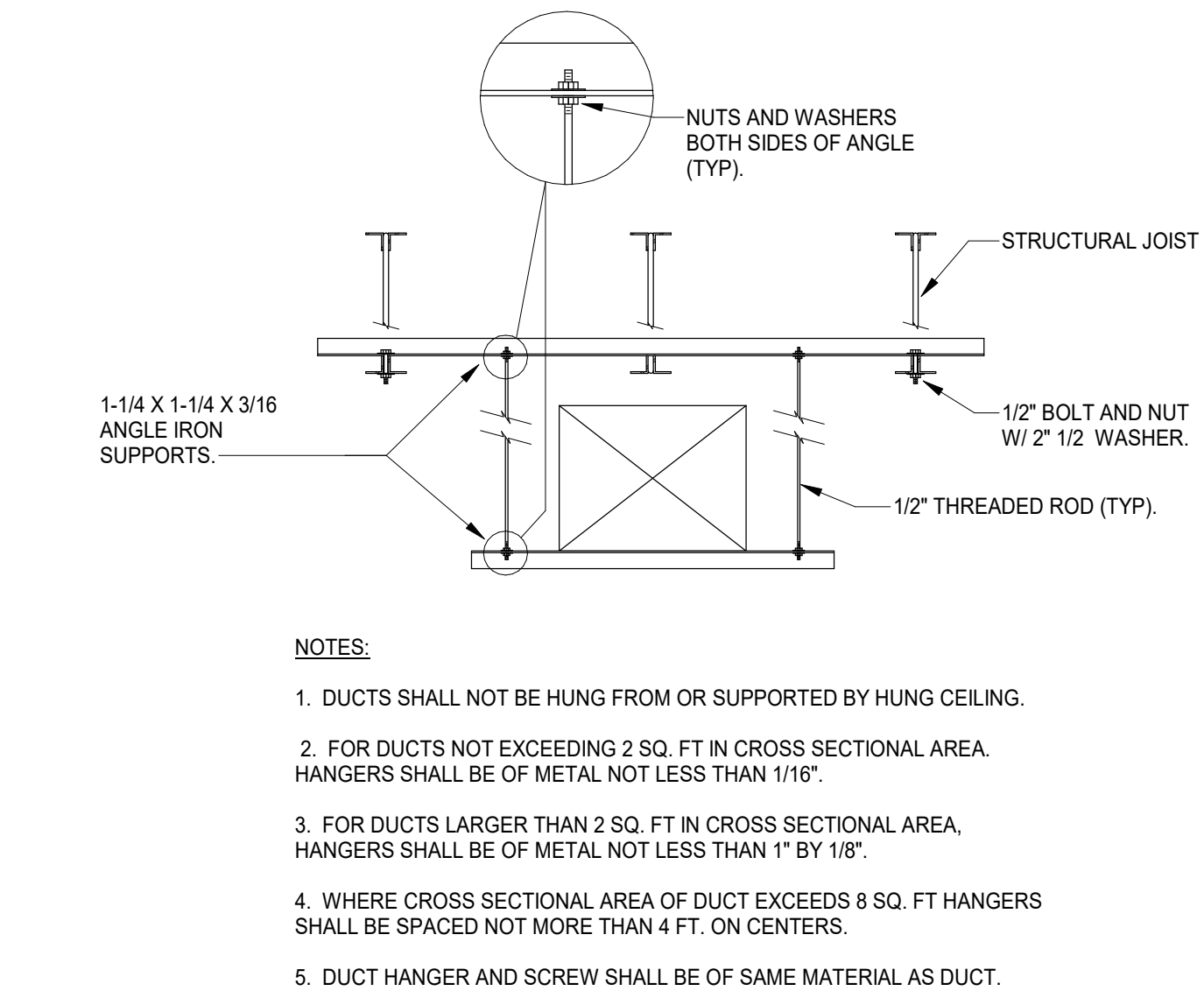
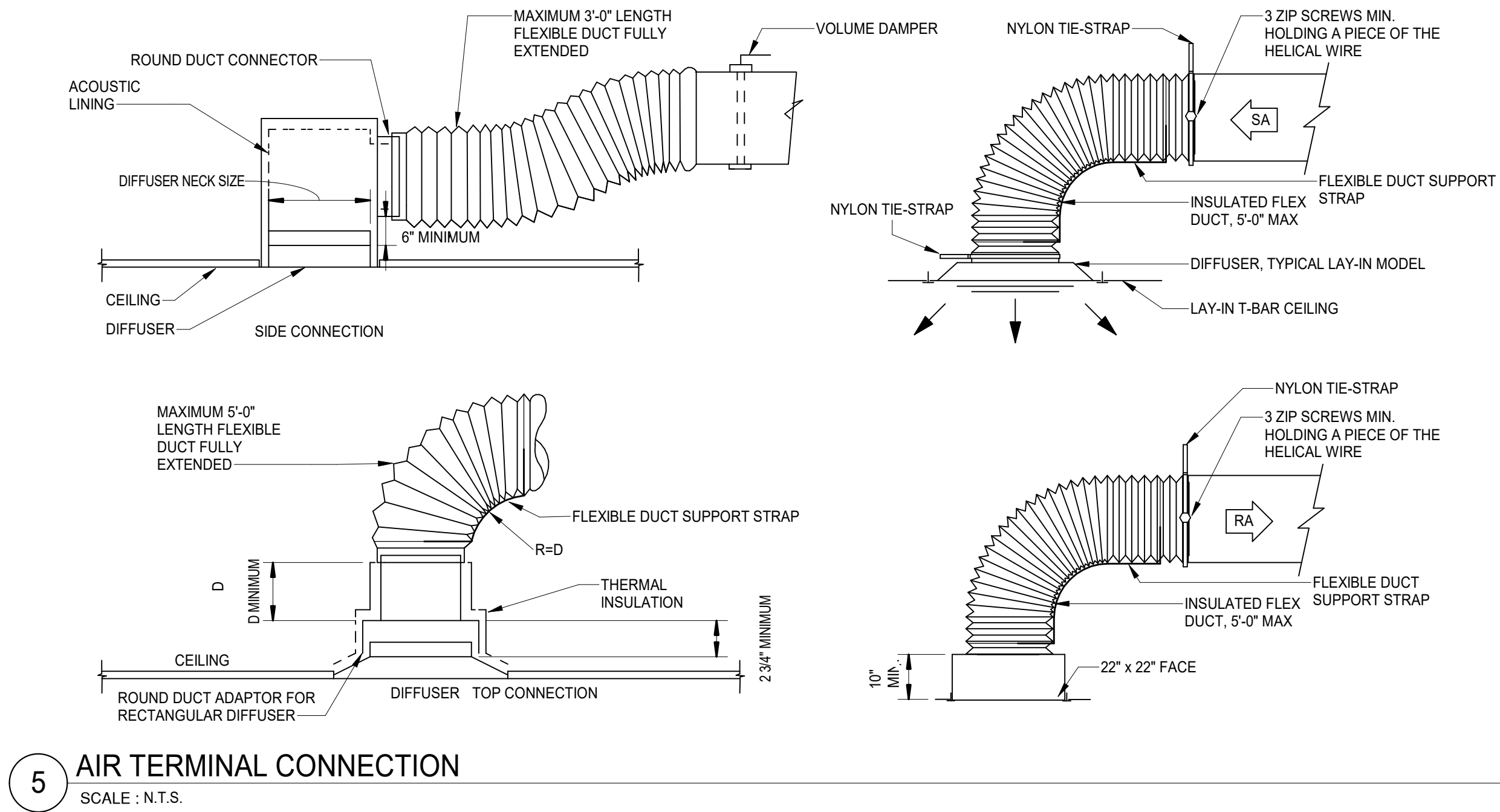
KEYNOTES

1. REPLACE VVB-1 WITH VAV-4, IN SAME LOCATION AS SHOWN ON PLANS. SHORTEN, EXTEND OR REPLACE DUCTWORK AS NECESSARY.
2. NEW DDC THERMOSTAT.
3. INSTALL NEW VAV BOX WITH DDC CONTROL IN PLACE OF EXISTING PNEUMATIC VAV BOX. BOX INLET SIZE TO MATCH EXISTING.
4. EXISTING TEMPERATURE SENSOR TO BE REINSTALLED IN NEW WALL AND RECONNECTED TO EXISTING DDC SYSTEM.
5. RELOCATED EXISTING, OR REPLACEMENT, THERMOSTAT TYPE IS DDC. FIELD-VERIFY LOCATION OF EXISTING THERMOSTAT.

NOTE: REBALANCE ALL EXISTING LINEAR SLOT DIFFUSERS TO 100 CFM EACH, UNLESS NOTED OTHERWISE ON PLANS.

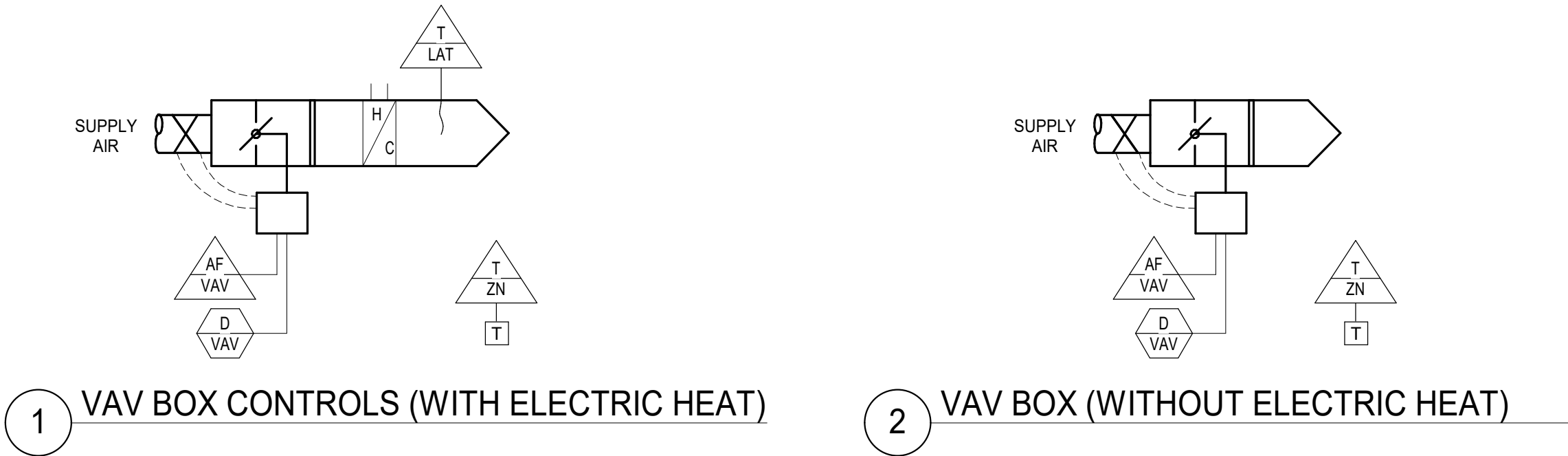






| GRILLE/REGISTER/DIFFUSER SCHEDULE                                                                                                                           |        |           |                               |              |        |                   |                |               |                           |          |        |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|-------------------------------|--------------|--------|-------------------|----------------|---------------|---------------------------|----------|--------|-------|
| TAG                                                                                                                                                         | SYSTEM | LOCATION  | TYPE                          | MANUFACTURER | MODEL  | FACE SIZE (IN/IN) | NECK SIZE (IN) | AIRFLOW (CFM) | MAX. PRESSURE DROP (INWG) | MATERIAL | FINISH | NOTES |
| SD1                                                                                                                                                         | SUPPLY | SEE PLANS | PLENUM SLOT DIFFUSER          | TITUS        | TBD-80 | 48x10             | SEE PLANS      | SEE PLANS     | 0.1                       | ALUMINUM | WHITE  | 1,2   |
| RG1                                                                                                                                                         | RETURN | SEE PLANS | CEILING MOUNTED RETURN GRILLE | TITUS        | 50F    | SEE PLANS         | SEE PLANS      | SEE PLANS     | 0.1                       | ALUMINUM | WHITE  | 1,2   |
| NOTES:                                                                                                                                                      |        |           |                               |              |        |                   |                |               |                           |          |        |       |
| 1. WHEN FACE SIZE IS GIVEN ABOVE, NECK SIZE IS SHOWN IN DIFFUSER TAG ON DRAWING.                                                                            |        |           |                               |              |        |                   |                |               |                           |          |        |       |
| 2. COORDINATE BORDER TYPE WITH ARCHITECTURAL CEILING. PROVIDE LAY-IN BORDER TYPE FOR LAY-IN CEILINGS. PROVIDE SURFACE MOUNT BORDER TYPE FOR SOLID CEILINGS. |        |           |                               |              |        |                   |                |               |                           |          |        |       |

| TERMINAL UNIT SCHEDULE                                       |              |       |                 |                          |                          |              |          |               |                   |                |                      |
|--------------------------------------------------------------|--------------|-------|-----------------|--------------------------|--------------------------|--------------|----------|---------------|-------------------|----------------|----------------------|
| TAG                                                          | MANUFACTURER | MODEL | INLET SIZE (IN) | AIRFLOW                  |                          | HEATING COIL |          |               |                   | SUPPLY VOLTAGE | ACCESSORIES REQUIRED |
|                                                              |              |       |                 | DESIGN MIN AIRFLOW (CFM) | DESIGN MAX AIRFLOW (CFM) | EAT (°F)     | LAT (°F) | CAPACITY (KW) | MAX AIR PD (INWG) |                |                      |
| VAV-1                                                        | TITUS        | DESV  | 10              | 290                      | 850                      | 55           | 100      | 4.1           | 0.50              | 22             | 1, 2                 |
| VAV-2                                                        | TITUS        | DESV  | 8               | 250                      | 730                      | -            | -        | -             | -                 | 208V, 3ph      | 2                    |
| VAV-3                                                        | TITUS        | DESV  | 12              | 550                      | 1640                     | 55           | 100      | 7.8           | 0.50              | 208V, 3ph      | 1, 2                 |
| VAV-4                                                        | TITUS        | DESV  | 7               | 160                      | 480                      | 55           | 100      | 2.3           | 0.50              | 208V, 3ph      | 1, 2                 |
| VVB-2                                                        | TITUS        | DESV  | 10              | 350                      | 1150                     | -            | -        | -             | -                 | 22             | 2                    |
| VVB-3                                                        | TITUS        | DESV  | 8               | 180                      | 600                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-4                                                        | TITUS        | DESV  | 8               | 210                      | 690                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-5                                                        | -            | -     | -               | 90                       | 300                      | -            | -        | -             | -                 | -              | EXISTING UNIT REMAIN |
| VVB-6                                                        | -            | -     | -               | 90                       | 300                      | -            | -        | -             | -                 | -              | EXISTING UNIT REMAIN |
| VVB-7                                                        | TITUS        | DESV  | 7               | 150                      | 500                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-8                                                        | TITUS        | DESV  | 10              | 360                      | 1200                     | -            | -        | -             | -                 | 22             | 2                    |
| VVB-9                                                        | TITUS        | DESV  | 10              | 360                      | 1200                     | -            | -        | -             | -                 | 22             | 2                    |
| VVB-10                                                       | TITUS        | DESV  | 7               | 120                      | 400                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-11                                                       | TITUS        | DESV  | 7               | 120                      | 400                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-12                                                       | -            | -     | -               | 210                      | 680                      | -            | -        | -             | -                 | -              | EXISTING UNIT REMAIN |
| VVB-13                                                       | TITUS        | DESV  | 10              | 360                      | 1200                     | -            | -        | -             | -                 | 22             | 2                    |
| VVB-15                                                       | TITUS        | DESV  | 8               | 210                      | 690                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-16                                                       | TITUS        | DESV  | 8               | 180                      | 600                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-17                                                       | TITUS        | DESV  | 7               | 150                      | 500                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-18                                                       | -            | -     | -               | 280                      | 930                      | -            | -        | -             | -                 | -              | EXISTING UNIT REMAIN |
| VVB-19                                                       | -            | -     | -               | 210                      | 690                      | -            | -        | -             | -                 | -              | EXISTING UNIT REMAIN |
| VVB-20                                                       | TITUS        | DESV  | 7               | 150                      | 500                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-21                                                       | TITUS        | DESV  | 10              | 300                      | 990                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-22                                                       | TITUS        | DESV  | 8               | 210                      | 690                      | -            | -        | -             | -                 | 22             | 2                    |
| VVB-23                                                       | -            | -     | -               | 150                      | 500                      | -            | -        | -             | -                 | -              | EXISTING UNIT REMAIN |
| <b>ACCESSORIES:</b>                                          |              |       |                 |                          |                          |              |          |               |                   |                |                      |
| 1. PROVIDE SCR ELECTRIC HEAT AND INTEGRAL DISCONNECT SWITCH. |              |       |                 |                          |                          |              |          |               |                   |                |                      |
| 2. PROVIDE WITH BACNET CONTROL.                              |              |       |                 |                          |                          |              |          |               |                   |                |                      |



SEQUENCES OF OPERATION:

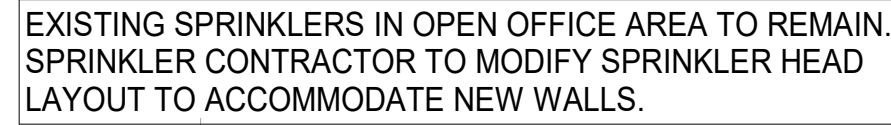
ALL NEW HVAC EQUIPMENT AND SENSORS SHALL BE INTEGRATED INTO THE EXISTING BACNET DDC SYSTEM. VAV BOX CONTROLLERS SHALL BE WIRED WITH LOW VOLTAGE CABLING BACK TO EXISTING DDC CONTROLLERS. ALL CABLING ROUTED ABOVE THE CEILING SHALL BE PLENUM RATED OR ROUTED IN CONDUIT APPROPRIATE FOR INSTALLATION IN ABOVE CEILING AIR PLENUM SPACES.

VAV BOX (WITH HEATING COIL): EACH VAV BOX WILL MODULATE OPEN TO MAINTAIN TEMPERATURE SETPOINT (72°F, ADJ.). IN COOLING, THE VAV BOX DAMPER WILL MODULATE BETWEEN FULLY OPEN AND FULLY CLOSED TO ACHIEVE COOLING SETPOINT. IN HEATING, THE VAV BOX ELECTRIC HEATING COIL WILL ENERGIZE AND MODULATE TO ACHIEVE HEATING SETPOINT (68°F, ADJ.). IN HEATING, THE VAV BOX DAMPER WILL MODULATE TO MINIMUM AIRFLOW AS SHOWN ON THE VAV BOX SCHEDULE.

VAV BOX (WITHOUT HEATING COIL): EACH VAV BOX WILL MODULATE OPEN TO MAINTAIN TEMPERATURE SETPOINT (72°F, ADJ.). IN COOLING, THE VAV BOX DAMPER WILL MODULATE BETWEEN FULLY OPEN AND FULLY CLOSED TO ACHIEVE COOLING SETPOINT. IN HEATING, THE VAV BOX WILL MODULATE TO MINIMUM AIRFLOW AS SHOWN ON THE VAV BOX SCHEDULE.

EXISTING PERIMETER HOT WATER HEAT: NEWLY RELOCATED SPACE TEMPERATURE SENSORS SHALL RELAY TEMPERATURES AT THEIR RESPECTIVE LOCATIONS TO THE EXISTING BACNET DDC SYSTEM. SPACE TEMPERATURES SHALL BE AVERAGED TOGETHER TO DETERMINE THE AVERAGE SPACE TEMPERATURE OF THE OPEN OFFICE AREA. WHEN TEMPERATURE DROPS BELOW HEATING SETPOINT (68°F, ADJ.), THE EXISTING HOT WATER CONTROL VALVES SHALL MODULATE OPEN. UPON MAINTAINING SPACE TEMPERATURE FOR 30 MINUTES (ADJ.) THE HOT WATER CONTROL VALVES SHALL CLOSE.

| GENERAL SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  | ABBREVIATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| <div><div><div><div><div><div></div><div></div></div><div>REVISION NUMBER - SHOWN ON PLANS</div></div><div><div><div></div><div></div></div><div>POINT WHERE NEW CONNECTS TO EXISTING</div></div><div><div><div></div><div></div></div><div>POINT OF DISCONNECT FROM EXISTING</div></div><div><div><div><div><div></div><div></div></div><div>NUMBER OF DETAIL ON SHEET</div></div><div><div><div></div><div></div></div><div>NUMBER OF SHEET WHERE DETAIL APPEARS</div></div></div><div><div><div></div><div></div></div><div>KEYNOTE</div></div><div><div><div></div><div></div></div><div>DEMOLITION KEYNOTE</div></div><div><div><div></div><div></div></div><div>CONTINUATION SYMBOL</div></div><div><div><div><div><div></div><div></div></div><div>ROOM NAME AND NUMBER</div></div></div><div><div><div><div><div></div><div></div></div><div>ITEM TO BE DEMOLISHED</div></div><div><div><div></div><div></div></div><div>AREA NOT IN CONTRACT</div></div></div></div></div></div></div></div></div> |  |  |  | <div><div><div><div><div><div>*</div><div>INCHES</div></div><div><div>#</div><div>NUMBER, POUNDS</div></div><div><div>&amp;</div><div>AND</div></div><div><div>'</div><div>FEET</div></div></div><div><div>(E), EXST</div><div>EXISTING TO REMAIN</div></div><div><div>(ER)</div><div>EXISTING TO BE RELOCATED</div></div><div><div>(N)</div><div>NEW WORK</div></div><div><div>(R)</div><div>REMOVE</div></div><div><div>(RE)</div><div>RELOCATED EXISTING</div></div><div><div>@</div><div>AT</div></div><div><div>Ø, DIA</div><div>DIAMETER</div></div><div><div>A</div><div></div></div><div><div>ABV</div><div>ABOVE</div></div><div><div>ACOUS</div><div>ACOUSTICAL</div></div><div><div>ACT</div><div>ACOUSTICAL CEILING TILE</div></div><div><div>AD</div><div>ACCESS DOOR</div></div><div><div>ADD</div><div>ADDENDUM</div></div><div><div>ADJ</div><div>ADJACENT</div></div><div><div>AFF</div><div>ABOVE FINISHED FLOOR</div></div><div><div>AFG</div><div>ABOVE FINISHED GRADE</div></div><div><div>AFUE</div><div>ANNUAL FUEL UTILIZATION EFFICIENCY</div></div><div><div>AG</div><div>ABOVE GROUND</div></div><div><div>AHJ</div><div>AUTHORITY HAVING JURISDICTION</div></div><div><div>AHU</div><div>AIR HANDLING UNIT</div></div><div><div>ALT</div><div>ALTERNATE</div></div><div><div>ALUM</div><div>ALUMINUM</div></div><div><div>ANOD</div><div>ANODIZED</div></div><div><div>AP</div><div>ACCESS PANEL</div></div><div><div>APPROX</div><div>APPROXIMATE, APPROXIMATELY</div></div><div><div>ARCH</div><div>ARCHITECT, ARCHITECTURAL</div></div><div><div>ATTN</div><div>ATTENTION</div></div><div><div>AUTO</div><div>AUTOMATIC</div></div><div><div>B</div><div></div></div><div><div>BFF</div><div>BELOW FINISH FLOOR</div></div><div><div>BLKG</div><div>BLOCKING</div></div><div><div>BLW</div><div>BELOW</div></div><div><div>BM</div><div>BEAM</div></div><div><div>BO</div><div>BY OTHER</div></div><div><div>BOP</div><div>BOTTOM OF PIPE</div></div><div><div>BOT</div><div>BOTTOM</div></div><div><div>BSMT</div><div>BASEMENT</div></div><div><div>BTU</div><div>BRITISH THERMAL UNITS</div></div><div><div>BTUH</div><div>BRITISH THERMAL UNITS PER HOUR</div></div><div><div>C</div><div></div></div><div><div>CAP</div><div>CAPACITY</div></div><div><div>CAT</div><div>CATEGORY</div></div><div><div>CB</div><div>CATCH BASIN</div></div><div><div>CC</div><div>CENTER TO CENTER</div></div><div><div>CD</div><div>CONDENSATE DRAIN</div></div><div><div>CFM</div><div>CUBIC FEET PER MINUTE</div></div><div><div>CI</div><div>CAST IRON</div></div><div><div>CJ</div><div>CONTROL JOINT</div></div><div><div>CL</div><div>CENTERLINE</div></div><div><div>CLG</div><div>CEILING</div></div><div><div>CO</div><div>CLEANOUT</div></div><div><div>COL</div><div>COLUMN</div></div><div><div>COMB</div><div>COMBINATION</div></div><div><div>CONC</div><div>CONCRETE</div></div><div><div>COND</div><div>CONDENSATE</div></div><div><div>CONN</div><div>CONNECTION</div></div><div><div>CONST</div><div>CONSTRUCTION</div></div><div><div>CONT</div><div>CONTINUOUS</div></div><div><div>CONTR</div><div>CONTRACTOR</div></div><div><div>COORD</div><div>COORDINATE</div></div><div><div>CTR</div><div>CENTER</div></div><div><div>CUFT</div><div>CUBIC FEET</div></div><div><div>D</div><div></div></div><div><div>D</div><div>DEEP</div></div><div><div>DB</div><div>DRY BULB</div></div><div><div>DEG</div><div>DEGREE</div></div><div><div>DEMO</div><div>DEMOLITION OR DEMOLISH</div></div><div><div>DEPT</div><div>DEPARTMENT</div></div><div><div>DIA, Ø</div><div>DIAMETER</div></div><div><div>DIAG</div><div>DIAGONAL</div></div><div><div>DIM</div><div>DIMENSION</div></div><div><div>DIV</div><div>DIVISION</div></div><div><div>DN</div><div>DOWN</div></div><div><div>DRN</div><div>DRAIN</div></div></div></div></div> |  |  |  | <div><div><div><div><div><div>DTL</div><div>DETAIL</div></div><div><div>DV</div><div>DISPLACEMENT VENTILATION</div></div><div><div>DWG,</div><div>DWG</div><div>DWG</div><div>DWG</div></div></div><div><div>E</div><div></div></div><div><div>EA</div><div>EACH</div></div><div><div>EAT</div><div>ENTERING AIR TEMPERATURE</div></div><div><div>EDB</div><div>ENTERING DRY BULB TEMPERATURE</div></div><div><div>EF</div><div>EXHAUST FAN</div></div><div><div>EL</div><div>ELBOW</div></div><div><div>ELEC</div><div>ELECTRIC, ELECTRICAL</div></div><div><div>ELEV</div><div>ELEVATOR</div></div><div><div>EMER</div><div>EMERGENCY</div></div><div><div>EMS</div><div>ENERGY MANAGEMENT SYSTEM</div></div><div><div>EMT</div><div>ELECTRICAL METALLIC TUBING</div></div><div><div>ENCL</div><div>ENCLOSURE</div></div><div><div>ENG</div><div>ENGINEER</div></div><div><div>EPDM</div><div>ETHYLENE PROPYLENE DIENE M-CLASS</div></div><div><div>EQ</div><div>EQUAL</div></div><div><div>EQUIP</div><div>EQUIPMENT</div></div><div><div>EWC</div><div>ELECTRIC WATER COOLER</div></div><div><div>EWI</div><div>ELECTRIC WATER HEATER</div></div><div><div>EWT</div><div>ENTERING WATER TEMPERATURE</div></div><div><div>EXH</div><div>EXHAUST</div></div><div><div>EXH-1</div><div>EXHAUST AIR - TYPE 1</div></div><div><div>EXH-2</div><div>EXHAUST AIR - TYPE 2</div></div><div><div>EXP</div><div>EXPANSION</div></div><div><div>EXP-JT</div><div>EXPANSION JOINT</div></div><div><div>EXT</div><div>EXTERIOR</div></div><div><div>F</div><div></div></div><div><div>FC</div><div>FAIL CLOSED</div></div><div><div>FCO</div><div>FLOOR CLEANOUT</div></div><div><div>FCU</div><div>FAN COIL UNIT</div></div><div><div>FD</div><div>FLOOR DRAIN</div></div><div><div>FLEX</div><div>FLEXIBLE</div></div><div><div>FLG</div><div>FLANGE</div></div><div><div>FLR</div><div>FLOOR</div></div><div><div>FND</div><div>FOUNDATION</div></div><div><div>FO</div><div>FAIL OPEN</div></div><div><div>FOB</div><div>FLAT ON BOTTOM</div></div><div><div>FOT</div><div>FLAT ON TOP</div></div><div><div>FPI</div><div>FINS PER INCH</div></div><div><div>FPM</div><div>FEET PER MINUTE</div></div><div><div>FPS</div><div>FEET PER SECOND</div></div><div><div>FS</div><div>FLOOR SINK</div></div><div><div>FT</div><div>FEET, FOOT</div></div><div><div>FTG</div><div>FOOTING</div></div><div><div>FUT</div><div>FUTURE</div></div><div><div>*F</div><div>DEGREES FAHRENHEIT</div></div><div><div>G</div><div></div></div><div><div>GA</div><div>GAUGE</div></div><div><div>GALV</div><div>GALVANIZED</div></div><div><div>GC</div><div>GENERAL CONTRACTOR</div></div><div><div>GPH</div><div>GALLONS PER HOUR</div></div><div><div>GPM</div><div>GALLONS PER MINUTE</div></div><div><div>H</div><div></div></div><div><div>HB</div><div>HOSE BIBB</div></div><div><div>HC</div><div>HANDICAPPED</div></div><div><div>HD</div><div>HEAD</div></div><div><div>HI</div><div>HIGH</div></div><div><div>HOA</div><div>HANDS-OFF-AUTOMATIC SWITCH</div></div><div><div>HORIZ</div><div>HORIZONTAL</div></div><div><div>HP</div><div>HORSEPOWER</div></div><div><div>HPC</div><div>HIGH PERFORMANCE COATING</div></div><div><div>HT</div><div>HEIGHT</div></div><div><div>HTG</div><div>HEATING</div></div><div><div>HTR</div><div>HEATER</div></div><div><div>HVAC</div><div>HEATING VENTILATION AND AIR CONDITIONING</div></div><div><div>HW</div><div>HOT WATER</div></div><div><div>HWP</div><div>HYDRONIC WATER PUMP</div></div><div><div>HZ</div><div>HERTZ</div></div><div><div>I</div><div></div></div><div><div>ID</div><div>INSIDE DIAMETER</div></div><div><div>IN</div><div>INCH, INCHES</div></div><div><div>IN WG</div><div>INCH OF WATER GAUGE</div></div><div><div>INL</div><div>INLET</div></div><div><div>INSUL</div><div>INSULATION</div></div></div></div></div> |  |  |  | <div><div><div><div><div><div>INT</div><div>INTERIOR</div></div><div><div>INV</div><div>INVERT</div></div><div><div>IPS</div><div>IRON PIPE SIZE</div></div><div><div>IR</div><div>INFRARED</div></div></div><div><div>J</div><div></div></div><div><div>JST</div><div>JOIST</div></div><div><div>JT</div><div>JOINT</div></div><div><div>L</div><div></div></div><div><div>L</div><div>LENGTH</div></div><div><div>LAT</div><div>LEAVING AIR TEMPERATURE</div></div><div><div>LBS</div><div>POUNDS</div></div><div><div>LF</div><div>LINEAR FEET</div></div><div><div>LOC</div><div>LOCATION</div></div><div><div>LWT</div><div>LEAVING WATER TEMPERATURE</div></div><div><div>M</div><div></div></div><div><div>MAX</div><div>MAXIMUM</div></div><div><div>MBH</div><div>ONE THOUSAND BTU PER HOUR</div></div><div><div>MECH</div><div>MECHANICAL</div></div><div><div>MEZZ</div><div>MEZZANINE</div></div><div><div>MIN</div><div>MINIMUM</div></div><div><div>MISC</div><div>MISCELLANEOUS</div></div><div><div>MO</div><div>MASONRY OPENING</div></div><div><div>MR</div><div>MOISTURE RESISTANT</div></div><div><div>MTD</div><div>MOUNTED</div></div><div><div>MTG</div><div>MOUNTING</div></div><div><div>MTL</div><div>METAL</div></div><div><div>N</div><div></div></div><div><div>N</div><div>NECK</div></div><div><div>N/C</div><div>NORMALLY CLOSED</div></div><div><div>N/O</div><div>NORMALLY OPEN</div></div><div><div>NA</div><div>NOT APPLICABLE</div></div><div><div>NC</div><div>NOISE CRITERIA</div></div><div><div>NIC</div><div>NOT IN CONTRACT</div></div><div><div>NOM</div><div>NOMINAL</div></div><div><div>NON</div><div>NON COMBUSTIBLE</div></div><div><div>COMB</div><div></div></div><div><div>NRTL</div><div>NATIONALLY RECOGNIZED TESTING LABORATORY</div></div><div><div>NTS</div><div>NOT TO SCALE</div></div><div><div>O</div><div></div></div><div><div>OA</div><div>OUTSIDE AIR</div></div><div><div>OC</div><div>ON CENTER</div></div><div><div>OD</div><div>OUTSIDE DIAMETER</div></div><div><div>P</div><div></div></div><div><div>PD</div><div>PRESSURE DROP</div></div></div></div></div> |  |  |  |



DRAWING SYMBOLS

VIEW TITLES

1

VIEW NAME

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

VIEW TITLE: SCALED

1

VIEW NAME

VIEW TITLE: NO SCALE

VIEW TITLE: TITLE ONLY

1

VIEW NAME

SCALE : NTS

VIEW TITLE: NOT TO SCALE

1

VIEW NAME

VIEW TITLE: NOT TO SCALE

SECTION MARK

VIEWING DIRECTION

SECTION #

DRAWING #

VIEWING DIRECTION

DETAIL #

DRAWING #

VIEWING DIRECTION

DETAIL SECTION

DRAWING #

VIEWING DIRECTION

WORKING SECTION

DRAWING #

EQUIPMENT IDENTITY (SEE MECH EQUIPMENT ABBREVIATION LIST)

EQUIPMENT NUMBER

SYSTEM NUMBER (IF APPLICABLE)

DETAIL CALLOUT

DETAIL #

DRAWING #

ELEVATION MARKER

Ref 1

ELEVATION #

Ref 1

DRAWING #

Ref 1

NEW COLUMN ID

EXISTING COLUMN ID

SEE SHEET AD101A

SEE SHEET AD101A

SEE SHEET AD101A

MATCHLINE SYMBOLS

NORTH ARROW (SHOWN IN KEYPLAN)

NORTH ARROW PLAN SIZE

REVISION TAG

CENTERLINE

ELEVATION NOTATION

LEVEL HEAD FAMILY

BREAK MARKS

BREAK RECTANGLE

BREAK ROUND

BREAK PIPE

ELECTRICAL SYMBOL LIST

GENERAL

LIGHT LINE WEIGHT INDICATES EXISTING ITEMS TO REMAIN OR PROVIDED BY OTHERS.

HEAVY LINE WEIGHT INDICATES ITEMS TO BE PROVIDED BY E.C.

HEAVY DASHED LINE INDICATES ITEMS TO BE REMOVED OR RELOCATED BY E.C.

LIGHT FIXTURE

UPPER CASE LETTERS INDICATE FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE FOR DETAILS. LOWER CASE LETTERS INDICATE SWITCHING ARRANGEMENT. NUMBER INDICATES BRANCH CIRCUIT. "EM" OR SHADING INDICATES EMERGENCY LIGHTING.

EXIT SIGN LIGHT - WALL, CEILING OR PENDANT MOUNTED. LETTERS INDICATE FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE FOR DETAILS. ARROWS INDICATE DIRECTION. SHADING INDICATES NUMBER OF FACES.

EXIT SIGN LIGHT WITH EMERGENCY LIGHT HEADS. LETTERS INDICATE FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE FOR DETAILS. SHADING INDICATES NUMBER OF FACES.

DOCK LIGHT

TRACK AND TRACK LIGHT

EMERGENCY LIGHT HEADS - SINGLE HEAD AND DOUBLE HEADS

EMERGENCY BATTERY LIGHTING UNIT. WIRE AHEAD OF LOCAL SWITCHING

LIGHT ON CORD REEL

LIGHT SWITCH 20A, 120/277V SINGLE POLE

"K" - KEY OPERATION

"3" - 3-WAY OPERATION

"LV" - LOW VOLTAGE

"WP" - WEATHER PROOF

"4" - 4-WAY OPERATION

"S" - SWITCHING ARRANGEMENT

"T" - TIMER

"P" - PILOT LIGHT

"OS" - DUAL TECHNOLOGY WALL SWITCH TYPE OCCUPANCY SENSOR

"D/OS" - DUAL TECHNOLOGY WALL SWITCH TYPE OCCUPANCY SENSOR WITH 0-10V DIMMING

"OS1" - DUAL RELAY WALL SWITCH TYPE OCCUPANCY SENSOR

"OS2" - INFRARED WALL SWITCH TYPE OCCUPANCY SENSOR

"D" - 0-10V WALL SWITCH DIMMER

"VS" - WALL SWITCH TYPE VACANCY SENSOR

"D/VS" - WALL SWITCH TYPE VACANCY SENSOR WITH 0-10V DIMMING

"D/S" - WALL P.D. WITH PRESET SCENES AND 0-10V DIMMING

OCCUPANCY SENSOR - CEILING MOUNTED

"A" - 1000 SQ. FT. COVERAGE

"B" - 2000 SQ. FT. COVERAGE

"C" - HALLWAY TYPE

"W" - WALL MOUNTED

VACANCY SENSOR - CEILING MOUNTED

"A" - 1000 SQ. FT. COVERAGE

"B" - 2000 SQ. FT. COVERAGE

"C" - HALLWAY TYPE

"W" - WALL MOUNTED

"PP" - POWER PACK

"PC" - PHOTOCELL FOR LIGHTING CONTROL

"RC" - ROOM CONTROLLER

"TC" - TIME CLOCK

LIGHT LEVEL SENSOR - TYPE DENOTED

POWER POLE

LIGHTING ARRESTOR

LIGHTNING PROTECTION AIR TERMINAL

LIGHTNING PROTECTION CONDUCTOR SPLICE

GROUND ROD

GROUND ROD (PLAN VIEW)

GROUND CONNECTION - EXOTHERMIC WELD

GROUND TEST WELL

GROUND CONNECTION TO STEEL OR STRUCTURE

JUNCTION BOX CEILING/WALL MOUNTED

"FA" - FURNITURE POWER

"FD" - FURNITURE DATA

"DA" - DOOR ACTUATOR

"HD" - HAND DRYER

PULL BOX

BUILDING GROUND BAR

TELECOM GROUND BAR

PANEL BOARD / DISTRIBUTION PANEL / SWITCHBOARD. SURFACE MOUNTED, FLUSH MOUNTED

MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER

DRAWOUT CIRCUIT BREAKER

DRAWOUT CIRCUIT BREAKER SPACE

MOLDED CASE CIRCUIT BREAKER

ENCLOSED CIRCUIT BREAKER

TRANSFORMER

GENERATOR

MOTOR

MANUAL MOTOR STARTER WITH THERMAL OVERLOAD

POWER

MAG. MOTOR STARTER OR CONTACTOR

COMB. MOTOR STARTER (NON-FUSED)

COMB. MOTOR STARTER (FUSED)

COMBINATION STARTER WITH RESET BUTTON, HAND OPERATED ACTUATOR, AND INDICATOR LIGHT

FUSE

SAFETY DISC. SW. (NON-FUSED)

SAFETY DISC. SW. (FUSED)

VARIABLE FREQUENCY CONTROLLER

BUS DUCT WITH PLUG UN DISCONNECT (FUSED)

CONDUIT CONCEALED IN WALL OR OVERHEAD. CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 #12 & #10 B CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN #12 CONDUCTOR PER SLASH MARK IN 3/4" CONDUIT UNLESS THE CONDUCTOR SIZE AND CONDUIT SIZE ARE SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT-PHASE CONDUCTOR, LONG STRAIGHT-NEUTRAL CONDUCTOR, SHORT BENT ENDED-SWITCH LEGS, LONG STRAIGHT WITH A DOT-GROUND CONDUCTOR.

CONDUIT CONCEALED

CONDUIT EXPOSED

SURFACE RACEWAY

CONDUIT TRANSITION UP

CONDUIT TRANSITION DOWN

CONDUIT STUBBED OUT

HEAT TRACE WIRING

HOMERUN TO PANEL BOARD. LETTERS INDICATE PANEL NAME. ARROWS INDICATE NUMBER OF CIRCUITS. NUMBERS INDICATE CIRCUIT DESIGNATIONS IN PANEL.

SINGLE RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE

DUPLEX RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE

"WP" - WEATHERPROOF TYPE WITH WEATHER-PROOF WHILE IN USE COVER

"GFI" - GROUND FAULT INTERRUPTER, 4-8mA TYPE

"AC" - ABOVE COUNTER, 6" ABOVE COUNTER TO BOTTOM OF DEVICE

"IC" - IN CABINETY, RECESSED RECEPTACLE

"DF" - MOUNTED WITHIN DRINKING FOUNTAIN CABINETY. COORDINATE MOUNTING HEIGHT IN FIELD USING APPROVED MANUFACTURER OUT SHEETS

"C" - CEILING MOUNTED

"C" - CEILING MOUNTED

"USB" - WITH USB

"USB-C" - WITH USB TYPE C

"TR" - TAMPER RESISTANT

"CR" - CONTROLLED RECEPTACLE

SPLIT DUPLEX RECEPT.

ISOLATED GROUND RECEPT (DUPLEX)

RECEPT ON EMERGENCY CKT (DUPLEX)

QUADRUPLEX RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE ON EMERGENCY CIRCUIT

240 VOLT RECEPT.

FLOOR RECEPT. (DUPLEX SHOWN)

RECEPT ON DROP CORD (DUPLEX SHOWN)

RECEPT ON CORD REEL (DUPLEX SHOWN)

SPECIAL RECEPTACLE. NEMA CONFIGURATION AND RATING AS INDICATED

PIN & SLEEVE CONNECTOR / RECEPTACLE

CONNECTION TO EQUIPMENT

REFER TO EQUIPMENT SCHEDULE FOR DETAILS

EQUIPMENT PLUG

MULTIPLE SERVICE OUTLET

MULTIPLE SERVICE FLR OUTLET

MULTIOUTLET ASSEMBLY

EMERGENCY OFF PUSH BUTTON

DOOR INTERLOCK

"DO" - ELECTRIC DOOR OPERATOR

"EH" - ELECTRIC HINGE

"EL" - ELECTRIC LATCH

"ES" - ELECTRIC STRIKE

"MS" - MOTION SENSOR FOR ACCESS CONTROL

"PS" - POWER SUPPLY FOR ACCESS CONTROL

"R" - RELAY

"S" - DOOR STATUS CONTACTS

"ML" - MAGNETIC LOCK

"DC" - DOOR CONTACTS

"CR" - CARD READER

"KP" - KEYPAD

"WAP" - WIRELESS ACCESS POINT

CCTV CAMERA F=FIXED, P=PAN, T=TILT, Z=ZOOM

SPEAKER (WALL OR CEILING MT.)

POWER

MAG. MOTOR STARTER OR CONTACTOR

COMB. MOTOR STARTER (NON-FUSED)

COMB. MOTOR STARTER (FUSED)

COMBINATION STARTER WITH RESET BUTTON, HAND OPERATED ACTUATOR, AND INDICATOR LIGHT

FUSE

SAFETY DISC. SW. (NON-FUSED)

SAFETY DISC. SW. (FUSED)

VARIABLE FREQUENCY CONTROLLER

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CONDUIT CONCEALED

CONDUIT EXPOSED

SURFACE RACEWAY

CONDUIT TRANSITION UP

CONDUIT TRANSITION DOWN

CONDUIT STUBBED OUT

HEAT TRACE WIRING

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"AC" - ABOVE COUNTER, 6" ABOVE COUNTER TO BOTTOM OF DEVICE

"IC" - IN CABINETY, RECESSED RECEPTACLE

"DF" - MOUNTED WITHIN DRINKING FOUNTAIN CABINETY. COORDINATE MOUNTING HEIGHT IN FIELD USING APPROVED MANUFACTURER OUT SHEETS

"C" - CEILING MOUNTED

"C" - CEILING MOUNTED

"USB" - WITH USB

"USB-C" - WITH USB TYPE C

"TR" - TAMPER RESISTANT

"CR" - CONTROLLED RECEPTACLE

SPLIT DUPLEX RECEPT.

ISOLATED GROUND RECEPT (DUPLEX)

RECEPT ON EMERGENCY CKT (DUPLEX)

QUADRUPLEX RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE ON EMERGENCY CIRCUIT

240 VOLT RECEPT.

FLOOR RECEPT. (DUPLEX SHOWN)

RECEPT ON DROP CORD (DUPLEX SHOWN)

RECEPT ON CORD REEL (DUPLEX SHOWN)

SPECIAL RECEPTACLE. NEMA CONFIGURATION AND RATING AS INDICATED

PIN & SLEEVE CONNECTOR / RECEPTACLE

CONNECTION TO EQUIPMENT

REFER TO EQUIPMENT SCHEDULE FOR DETAILS

EQUIPMENT PLUG

MULTIPLE SERVICE OUTLET

MULTIPLE SERVICE FLR OUTLET

MULTIOUTLET ASSEMBLY

EMERGENCY OFF PUSH BUTTON

DOOR INTERLOCK

"DO" - ELECTRIC DOOR OPERATOR

"EH" - ELECTRIC HINGE

"EL" - ELECTRIC LATCH

"ES" - ELECTRIC STRIKE

"MS" - MOTION SENSOR FOR ACCESS CONTROL

"PS" - POWER SUPPLY FOR ACCESS CONTROL

"R" - RELAY

"S" - DOOR STATUS CONTACTS

"ML" - MAGNETIC LOCK

"DC" - DOOR CONTACTS

"CR" - CARD READER

"KP" - KEYPAD

"WAP" - WIRELESS ACCESS POINT

CCTV CAMERA F=FIXED, P=PAN, T=TILT, Z=ZOOM

SPEAKER (WALL OR CEILING MT.)

POWER

MAG. MOTOR STARTER OR CONTACTOR

COMB. MOTOR STARTER (NON-FUSED)

COMB. MOTOR STARTER (FUSED)

COMBINATION STARTER WITH RESET BUTTON, HAND OPERATED ACTUATOR, AND INDICATOR LIGHT

FUSE

SAFETY DISC. SW. (NON-FUSED)

SAFETY DISC. SW. (FUSED)

VARIABLE FREQUENCY CONTROLLER

BUS DUCT WITH PLUG UN DISCONNECT (FUSED)

CONDUIT CONCEALED IN WALL OR OVERHEAD. CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 #12 & #10 B CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN #12 CONDUCTOR PER SLASH MARK IN 3/4" CONDUIT UNLESS THE CONDUCTOR SIZE AND CONDUIT SIZE ARE SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT-PHASE CONDUCTOR, LONG STRAIGHT-NEUTRAL CONDUCTOR, SHORT BENT ENDED-SWITCH LEGS, LONG STRAIGHT WITH A DOT-GROUND CONDUCTOR.

CONDUIT CONCEALED

CONDUIT EXPOSED

SURFACE RACEWAY

CONDUIT TRANSITION UP

CONDUIT TRANSITION DOWN

CONDUIT STUBBED OUT

HEAT TRACE WIRING

HOMERUN TO PANEL BOARD. LETTERS INDICATE PANEL NAME. ARROWS INDICATE NUMBER OF CIRCUITS. NUMBERS INDICATE CIRCUIT DESIGNATIONS IN PANEL.

SINGLE RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE

DUPLEX RECEPT. 120V, 20A, NEMA 5-20R UNLESS NOTED OTHERWISE

"WP" - WEATHERPROOF TYPE WITH WEATHER-PROOF WHILE IN USE COVER

"GFI" - GROUND FAULT INTERRUPTER, 4-8mA TYPE

"AC" - ABOVE COUNTER, 6" ABOVE COUNTER TO BOTTOM OF DEVICE

"IC" - IN CABINETY, RECESSED RECEPTACLE

"DF" - MOUNTED WITHIN DRINKING FOUNTAIN CABINETY. COORDINATE MOUNTING HEIGHT IN FIELD USING APPROVED MANUFACTURER OUT SHEETS

"C" - CEILING MOUNTED

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CONNECTION TO EQUIPMENT

REFER TO EQUIPMENT SCHEDULE FOR DETAILS

EQUIPMENT PLUG

MULTIPLE SERVICE OUTLET

MULTIPLE SERVICE FLR OUTLET

MULTIOUTLET ASSEMBLY

EMERGENCY OFF PUSH BUTTON

DOOR INTERLOCK

"DO" - ELECTRIC DOOR OPERATOR

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"EL" - ELECTRIC LATCH

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"CR" - CARD READER

"KP" - KEYPAD

"WAP" - WIRELESS ACCESS POINT

CCTV CAMERA F=FIXED, P=PAN, T=TILT, Z=ZOOM

SPEAKER (WALL OR CEILING MT.)

NURSE CALL DOME LIGHT (4 LAMP)

NURSE CALL EMERG. STATION

NURSE CALL CODE BLUE EMERG. STATION

NURSE CALL DUTY STATION

NURSE CALL STAFF STATION

NURSE CALL PATIENT PULL STATION

NURSE CALL SINGLE PATIENT STATION

NURSE CALL DUAL PATIENT STATION

NURSE CALL MASTER STATION

NURSE CALL EQUIPMENT CABINET

NURSE CALL ANNUNCIATOR PANEL

VOLUME CONTROL

HUMIDISTAT

THERMOSTAT

TELEPHONE OUTLET BOX

TWO GANG JUNCTION BOX WITH 1" CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING. NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS, ALL CABLING, TERMINATIONS AND TESTING BY OTHERS.

DATA OUTLET BOX

TWO GANG JUNCTION BOX WITH 1" CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING. NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS, ALL CABLING, TERMINATIONS AND TESTING BY OTHERS.

COMBINATION TELE/ DATA OUTLET BOX

TWO GANG JUNCTION BOX WITH 1" CONDUIT STUBBED TO 6" ABOVE NEAREST ACCESSIBLE CEILING. NYLON BUSHING ON CONDUIT END, AND ALL RACEWAYS, ALL CABLING, TERMINATIONS AND TESTING BY OTHERS.

TELEVISION OUTLET CEILING OR WALL MOUNT

MULTIPLE SERVICE FLR OUTLET

MULTIOUTLET ASSEMBLY

CLOCK (WALL MOUNT)

UNDERFLOOR RACEWAY SYSTEM

CABLE TRAY. "FS" INDICATES FIRE STOP LOCATION

CONDUIT SLEEVE

POLE WITH STANCHION MOUNTED LIGHT FIXTURE. LETTERS INDICATED FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.

BOLLARD LIGHTING FIXTURE. LETTER INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.

EXTERIOR WALL MOUNTED LIGHTING FIXTURE. LETTER INDICATES FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT.

UTILITY SERVICE POLE

"UE" - UNDERGROUND ELECTRIC

"UMVE" - UNDERGROUND MEDIUM VOLTAGE

"UT" - UNDERGROUND TELEPHONE

"UCOM" - UNDERGROUND COMMUNICATIONS

"UTV" - UNDERGROUND CABLE TELEVISION (CATV OR CCTV)

"UFIBR" - UNDERGROUND FIBER OPTIC

"AE" - AERIAL ELECTRIC LINE

"OH" - OVERHEAD TELEPHONE

"OHE" - OVERHEAD ELECTRIC

FIRE ALARM

CONTROL UNIT (PANEL)

"AMP" - AMPLIFIER RACK

"FAA" - FIRE ALARM ANNUNCIATOR

"FACP" - FIRE ALARM CONTROL PANEL

"NAC" - NOTIFICATION CIRCUIT POWER BOOSTER EXTENDER PANEL

INTERFACE AND SUPERVISORY DEVICES

"DH" - DOOR HOLDER

"EOL" - END OF LINE

"F" - MANUAL PULL STATION

"WF" - FLOW DETECTOR

"VS" - VALVE SUPERVISORY SWITCH

FIRE ALARM INDICATION DEVICE

"AIM" - ADDRESSABLE INPUT MODULE

"AOM" - ADDRESSABLE OUTPUT CONTROL MODULE

"H" - HEAT DETECTION TYPE

"RIF" - RISE/TEMPERATURE

"F" - FIXED TEMPERATURE

"R" - RATE OF RISE ONLY

"S" - SMOKE DETECTOR/SENSOR

"I" - IONIZATION

"P" - PHOTOELECTRIC

"BR" - BEAM RECEIVER

"BT" - BEAM TRANSMITTER

"SS" - SMOKE DETECTOR SINGLE STATION

SMOKE DETECTOR/SENSOR FOR DUCT

BELL TROUBLE

COMBINATION HORN/VISIBLE

"CD" - CANDELA RATING/SETTING

COMBINATION SPEAKER/VISIBLE

"CD" - CANDELA RATING/SETTING

"C" - CEILING MOUNT

HORN ONLY

SPEAKER ONLY - WALL MOUNT

"C" - CEILING MOUNT

RTS REMOTE ALARM INDICATING AND TEST SWITCH

REMOTE INDICATOR

VISIBLE ONLY (STROBE) WALL / CEILING

CD - CANDELA RATING / SETTING

VISIBLE ONLY (STROBE) EMERGENCY WALL / CEILING

CD - CANDELA RATING / SETTING

COMBINATION SPEAKER / VISIBLE APPLIANCE

"C" - CEILING MOUNT

CO2 CARBON DIOXIDE DETECTOR

CARBON MONOXIDE DETECTOR

GENERAL NOTES:

1. MINIMUM CIRCUIT BREAKER SIZE FOR CONDUITS SHOWN ON PLANS IS 20A, 1 POLE FOR 120VAC UNLESS OTHERWISE NOTED/SHOWN ON PLANS

2. MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG. DERATE CONDUCTORS PER NEC FOR VOLTAGE DROP AND CONDUIT FILL.

3. PROVIDE GROUNDING PER NEC (ARTICLE 250).

4. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FROM PANELBOARD FOR EACH BRANCH CIRCUIT.

5. CONTRACTOR SHALL COORDINATE WORK WITH ASSOCIATED TRADES.

6. CONTRACTOR SHALL SEAL WITH AN APPROVED METHOD ALL ELECTRICAL PENETRATIONS THRU FIRE FLOOR/PROOF/RATED WALLS, FLOORS, CEILINGS OR OTHER AREAS.

7. CONTRACTOR SHALL PROVIDE FUSES SIZED PER MANUFACTURERS RECOMMENDATIONS FOR ALL EQUIPMENT INSTALLED WITH FUSED STARTERS OR DISCONNECTS.

8. ALL EXTERIOR PVC CONDUIT SHALL TRANSITION TO RGS CONDUIT WITHIN 18" OF FOUNDATION WALL PRIOR TO PASSING THRU THAT WALL.

9. CONTRACTOR SHALL PROVIDE RACEWAY, WIRE, CABLE AND ASSOCIATED FITTINGS ALONG WITH COMPLETE CONNECTIONS REQUIRED FOR BRANCH CIRCUITS FROM DEVICES TO FINAL OVERCURRENT DEVICE AND LOCAL CONTROL DEVICE(S) PER PROJECT SPECIFICATIONS.

10. VERIFY EXACT LOCATION OF ELECTRICAL CONNECTION POINTS IN THE FIELD.

11. CONDUIT SHALL BE CONCEALED WITHIN WALLS AND CEILINGS WHERE POSSIBLE. SOME CONDUIT SYSTEMS SHALL BE EXPOSED DUE TO THE CONSTRUCTION OF THE BUILDING. CONTRACTOR SHALL STRIVE TO CONSOLIDATE CONDUITS AND ARRANGE IN A GEOMETRICALLY ALIGNED FASHION TO HAVE A LOW IMPACT ON THE AESTHETICS OF THE SPACE. CONDUIT SHALL BE ROUTED FROM THE CORRIDOR DIRECTLY INTO EACH ROOM, NOT ROUTED FROM ROOM TO ROOM. CONTRACTOR SHALL PROVIDE AND NOTIFY CONSULTANT FOR REVIEW OF THE INSTALLED CONDUIT LAYOUT EARLY IN THE PROJECT. CONDUIT INSTALLATION SHALL CONTINUE UPON CONSULTANT APPROVAL AND IS SUBJECT TO MODIFICATIONS AS THE CONSULTANT SEES FIT. EXPOSED CONDUITS SHALL BE PAINTED TO MATCH SURROUNDING CONDITIONS. REFER TO CONSTRUCTION COORDINATION REQUIREMENTS IN THE PROJECT SPECIFICATIONS.

12. REFER TO LIFE SAFETY AND ARCHITECTURAL PLANS FOR FIRE RATING REQUIREMENTS. BACKBOXES IN THESE AREAS SHALL HAVE A 1 HR MINIMUM UL LISTED FIRE RATING.

13. PROVIDE LIGHTING CONTROLS INCLUDING DEVICE ITSELF, CONDUIT, CONDUCTORS, 0-10V WIRING, POWER PACKS, SLAVE PACKS, CONNECTORS, AND OTHER ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.

14. RECEPTACLES AND TELECOMMUNICATION BOXES SHALL NOT BE LOCATED BACK TO BACK ON WALL. PROVIDE A MINIMUM OF 6" OF SEPARATION BETWEEN BOXES.

15. TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

16. TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

17. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

ABBREVIATIONS

& AND

(E) EXIST EXISTING TO REMAIN

(ER) EXISTING TO BE RELOCATED

(N) NEW WORK

(R) REMOVE

(RE) RELOCATED EXISTING

@ AT

1P 1 POLE (2P, 3P, 4P ETC.)

' FEET

" INCHES

# NUMBER, POUNDS

Ø PHASE

Ø DIA DIAMETER

Y WYE

Δ DELTA

A AMP AMPERE

AFG ABOVE FINISHED GRADE

AFI ARC FAULT CIRCUIT BREAKER

AFR ARC FLASH REDUCTION CIRCUIT BREAKER

AHJ AUTHORITY HAVING JURISDICTION

AHU AIR HANDLING UNIT

ALUM ALUMINUM

ALT ALTERNATE

AFB ABOVE FINISHED FLOOR

AMPL AMPLIFIER

ANNUN ANNUNCIATOR

APPROX APPROXIMATE, APPROXIMATELY

ARCH ARCHITECT, ARCHITECTURAL

AT AMP TRIP RATING

ATS AUTOMATIC TRANSFER SWITCH

ATTN ATTENTION

AUTO AUTOMATIC

AUX AUXILIARY

AV AUDIO VISUAL

AWG AMERICAN WIRE GAUGE

B BOTTOM OF

BI, BO BOTTOM OF

BAS BUILDING AUTOMATION SYSTEM

BATT BATTERY

BD BOARD

BKR BREAKER

BMS BUILDING MANAGEMENT SYSTEM

BOC BOTTOM OF CONCRETE

C CABINET

CAB CABLE TELEVISION

CB CIRCUIT BREAKER

CCTV CLOSED CIRCUIT TELEVISION

CK BREAKER WITH CONTACT KIT FOR GROUND FAULT ALARM ONLY INDICATION

CKT CIRCUIT

CL CENTERLINE

CL CURRENT LIMITING

CD COMBINATION HORN/VISIBLE

"CD" - CANDELA RATING/SETTING

CD COMBINATION SPEAKER/VISIBLE

"CD" - CANDELA RATING/SETTING

"C" - CEILING MOUNT

HORN ONLY

SPEAKER ONLY - WALL MOUNT

"C" - CEILING MOUNT

RTS REMOTE ALARM INDICATING AND TEST SWITCH

REMOTE INDICATOR

VISIBLE ONLY (STROBE) WALL / CEILING

CD - CANDELA RATING / SETTING

VISIBLE ONLY (STROBE) EMERGENCY WALL / CEILING

CD - CANDELA RATING / SETTING

COMBINATION SPEAKER / VISIBLE APPLIANCE

"C" - CEILING MOUNT

CO2 CARBON DIOXIDE DETECTOR

CARBON MONOXIDE DETECTOR

ABBREVIATIONS

CLG CEILING

CMR COMPRESSOR

CND CONDUIT

COMB COMBINATION

CONN CONNECTION

CONST CONSTRUCTION

CONT CONTINUOUS

CONV CONVECTOR

CP CIRCULATION PUMP OR CONTROL PANEL

CT CURRENT TRANSFORMER

CU COPPER

DC DIRECT CURRENT

DCP DOMESTIC WATER CIRCULATING PUMP

DDCP DIRECT DIGITAL CONTROL PANEL

DE DUAL ELEMENT

DEPT DEPARTMENT

DIA Ø DIAMETER

DISC DISCONNECT

DIST DISTRIBUTION

DN DOWN

DP DOUBLE POLE

DPR DAMPER

DS SAFETY DISCONNECT SWITCH

DT DOUBLE THROW

DWG, DWGS DRAWING, DRAWINGS

E ELECTRICAL CONTRACTOR

EGC EQUIPMENT GROUND CONDUCTOR

ELEC ELECTRIC, ELECTRICAL

ELEV ELEVATOR

EMER EMERGENCY

EMS ENERGY MANAGEMENT SYSTEM

EMT ELECTRICAL METALLIC TUBING

EPO EMERGENCY POWER OFF

EQUIP EQUIPMENT

ES END SWITCH

EUH ELECTRIC UNIT HEATER

EWC ELECTRIC WATER COOLER

EWV ELECTRIC WATER HEATER

EXH EXHAUST

EXH-1 EXHAUST AIR - TYPE 1

EXH-2 EXHAUST AIR - TYPE 2

EXP EXPANSION PROOF

F FUSED

FA FIRE ALARM

FACP FIRE ALARM CONTROL PANEL

FBO FURNISHED BY OTHERS

FCU FAN COIL UNIT

FLOUR FLUORESCENT

FLR FLOOR

FVNR FULL VOLTAGE NON-REVERSING

GA GAUGE

GAL GALLON

GALV GALVANIZED

GC GENERAL CONTRACTOR

GEN GENERATOR

GFI GROUND FAULT PROTECTOR

GND GROUND

GRS GALVANIZED RIGID STEEL (CONDUIT)

GWB GYPSUM BOARD

H HIGH INTENSITY DISCHARGE

HOA HANDS-OFF-AUTOMATIC SWITCH

HORIZ HORIZONTAL

HP HORSEPOWER

HPF HIGH POWER FACTOR

HT HEIGHT

HTG HEATING

HTR HEATER

HV HIGH VOLTAGE

HVAC HEATING VENTILATION AND AIR CONDITIONING

HWP HYDRONIC WATER PUMP

HZ HERTZ

IC INTERRUPTER CAPACITY

IG ISOLATED GROUND

IMC INTERMEDIATE METAL CONDUIT

INC INCANDESCENT

IR INFRARED

J -BOX, JB JUNCTION BOX

K KIPS

K-FIT THOUSAND CIRCULAR MILLS (MCM)

K-FT KIP-FOOT

KK KIRK KEY INTERLOCK

kV KILOVOLT

KVA KILOVOLT-AMPERE

KVAR KILOVOLT-AMPERE REACTIVE

KW KILOWATT

KWH KILOWATT HOUR

L LIGHTING ARRESTOR

LA LINEAR FEET

LOC LOCATION

LT LIGHT

LTG LIGHTING

LTNG LIGHTNING

LV LOW VOLTAGE

M MOMENTARY CONTACT

MIC MILLIAMPERE

MAG.S MAGNETIC STARTER

MAX MAXIMUM

MC MECHANICAL CONTRACTOR

MCB MAIN CIRCUIT BREAKERS

MCC MOTOR CONTROL CENTER

MDP MAIN DISTRIBUTION PANEL

MECH MECHANICAL

MEZZ MEZZANINE

MFR MANUFACTURER

MFS MAIN FUSED DISCONNECT SWITCH

MH MANHOLE

MIC MICROPHONE

MIN MINIMUM

MISC MISCELLANEOUS

MLO MAIN LUG ONLY

MOA MULTIOUTLET ASSEMBLY

MT MOUNT

MTC EMPTY CONDUIT

MTR MOTOR, MOTORIZED

MTS MANUAL TRANSFER SWITCH

MV MEDIUM VOLTAGE

N NEUTRAL

NA NOT APPLICABLE

N/C NORMALLY CLOSED

NEC NATIONAL ELECTRICAL CODE

NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

NF NON-FUSED

NFDS NON-FUSED SAFETY DISCONNECT SWITCH

NIC NOT IN CONTRACT

NL NIGHT LIGHT - WIRE AHEAD OF SWITCH/CONTROL

N/O NORMALLY OPEN

No. NUMBER

NPF NORMAL POWER FACTOR

NRTL NATIONALLY RECOGNIZED TESTING LABORATORY

NTS NOT TO SCALE

NW NORMAL WEIGHT

O ON CENTER

OCPD OVERCURRENT PROTECTION DEVICE

OH OVERHEAD

P OVERLOADS

P POLE

PA PUBLIC ADDRESS

PC PULL BOX OR PUSH BUTTON

PB PLUMBING CONTRACTOR

PE PHOTO ELECTRIC CELL

PED PEDESTAL

PF POWER FACTOR

PH PHASE

PIV POST INDICATING VALVE

PL PLATE

PNL PANEL

PROJ PROJECTION

PRV POWER ROOF VENTILATOR

PT POTENTIAL TRANSFORMER

PVC POLYVINYL CHLORIDE

PWR POWER

Q QUANTITY

R REMOTE CONTROL

RECPT RECEPTACLE

REQD REQUIRED

RM ROOM

RMS ROOT MEAN SQUARE

RSC RIGID STEEL CONDUIT

RTU ROOF TOP UNIT

REQMTS REQUIREMENTS

S/S STOP/START PUSHBUTTONS

SCHED SCHEDULE

SEC SECONDARY

SF, SQFT SQUARE FEET

SFB SUB FEED BREAKER KIT

SHT SHEET

SIM SIMILAR

SPD SURGE PROTECTION DEVICE

SPEC SPECIFICATION

SPKR SPEAKER

SS SAFETY SWITCH

ST SINGLE THROW

SST STAINLESS STEEL

STA STATION

STD STANDARD

STRUCT STRUCTURAL, STRUCTURE

SW SWITCH

SWBD SWITCHBOARD

SWGR SWITCHGEAR

SYM SYMMETRICAL

SYS SYSTEM

SSW SELECTOR SWITCH

SSL SHORT SLOTTED

SPCS SPACES

T TELEPHONE

TEL/DATA TELEPHONE/DATA

TERM TERMINAL

TL TWIST LOCK

TS TIME SWITCH

T-STAT THERMOSTAT

TTB TELEPHONE TERMINAL BOARD

TV TELEVISION

TVTC TELEVISION TERMINAL CABINET

TYP TYPICAL

TTT TELEPHONE TERMINAL CABINET

U UNDER COUNTER

UG UNDERGROUND

UGE UNDERGROUND ELECTRICAL

UGT UNDERGROUND TELEPHONE

UH UNIT HEATER

UNO UNLESS NOTED OTHERWISE

UTL UTILITY

UV UNIT VENTILATOR OR ULTRAVIOLET

UNK UNKNOWN

V VOLT

VA VOLT-AMPERES

VDT VIDEO DISPLAY TERMINAL

VFC VARIABLE FREQUENCY CONTROLLER

VIF VERIFY IN FIELD

VOM VOLTMETER

VOL VOLUME

VERT VERTICAL

W WATT

W/ WITH

W/O WITHOUT

W/SF WATTS PER SQUARE FOOT

WG WIRE GUARD

WH WATER HEATER

WP WEATHERPROOF

X TRANSFORMER

XFMR TRANSFORMER

XFR TRANSFER

| MOUNTING HEIGHTS                        |                                                                    |
|-----------------------------------------|--------------------------------------------------------------------|
| CARD READER                             | 42" AFF                                                            |
| CLOCK HANGER OUTLETS                    | 42" AFF                                                            |
| EXIT LIGHTS - FLOOR PROXIMITY           | 8" AFF TO BOTTOM OF SIGN, 4" FROM FRONT EDGE OF SIGN TO DOOR FRAME |
| EXIT LIGHTS - WALL MOUNTED              | ABOVE DOORS (MAX. 96" AFF)                                         |
| FIRE ALARM HORN/STROBE                  | 84" AFF                                                            |
| FIRE ALARM PULL STATION                 | 44" AFF                                                            |
| LIGHT SWITCHES                          | 42" AFF                                                            |
| MOTOR STARTERS                          | 72" AFF MAX TO OPERATING HANDLE                                    |
| PANEL BOARDS (LIGHTING AND RECEPTACLES) | 72" AFF MAX TO TOP OF CIRCUIT BREAKER                              |
| RECEPTACLE - TYPICAL                    | 18" AFF (U.O.N.)                                                   |
| SAFETY SWITCHES                         | 72" MAX TO OPERATING HANDLE                                        |
| TELEPHONE - DATA OUTLET                 | 18" AFF                                                            |
| TELEPHONE - PAY STATION                 | 48" AFF                                                            |
| TELEPHONE - WALL TYPE                   | 48" AFF                                                            |

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ADA LOCATIONS. ALL DEVICES TO BE MOUNTED WITHIN A RANGE OF 34" TO BOTTOM OF DEVICE BACKBOX TO 48" AFF TO TOP OF DEVICE BACKBOX. PREFERRED MOUNTING HEIGHT IS 48" AFF TO TOP OF DEVICE BACKBOX. CONTRACTOR TO MOUNT AT LOWER HEIGHT WITHIN THE LISTED RANGE TO OVERCOME ANY INTERFERENCES WHERE REQUIRED.

| NOTE                                                                                                                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED APPEAR ON THESE CONTRACT DRAWINGS. INDIVIDUAL DRAWINGS MAY HAVE SHEET LEGENDS FOR UNIQUE SYMBOLS AND FOR CONVENIENCE. |  |

STATE OF MICHIGAN

DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET

FACILITIES AND BUSINESS SERVICES ADMINISTRATION

DESIGN AND CONSTRUCTION DIVISION

ADAM LACH, R.A., NCARB, DIRECTOR

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Livonia, MI 48150  
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OTTAWA BUILDING - SIGMA

MOVE TO 1ST FLOOR

611 W. OTTAWA STREET, LANSING, MI 48203

DESIGNED JTB

DRAWN JTB

CHECKED DDM

APPROVED DDM

DATE

08/18/2026

ISSUED FOR

BIDS/PERMITS

CONSTRUCTION

FINAL RECORD

IDENTIFICATION NO.

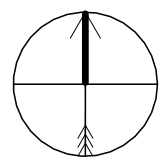
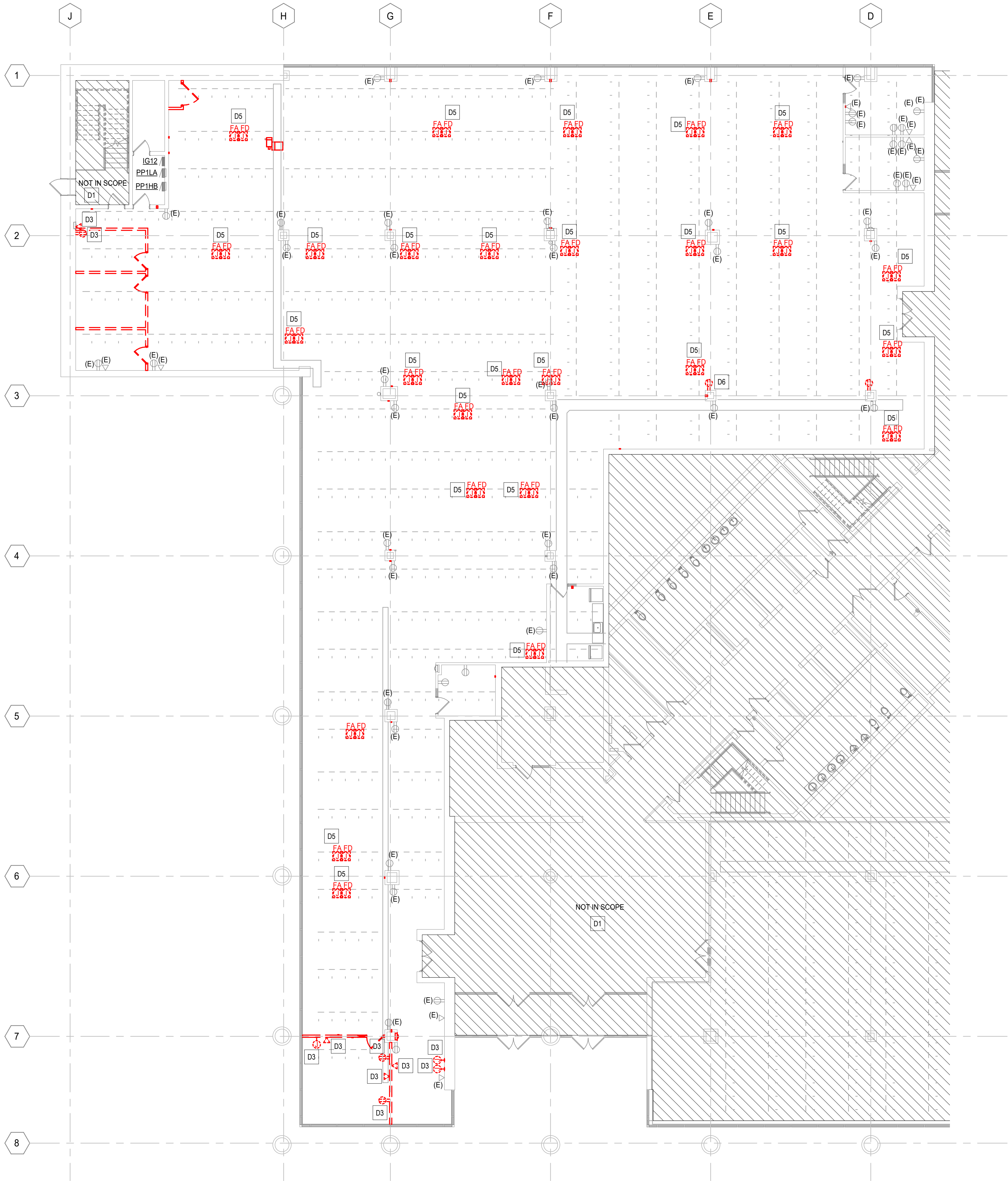
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INDEX NO. Y26312

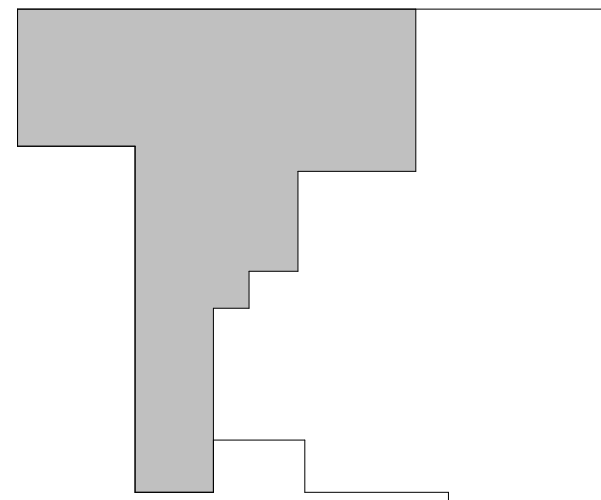
ARCHITECT PROJECT NO. 2608432A

SHEET

E001



1 FIRST FLOOR POWER DEMOLITION PLAN  
SCALE : 3/32" = 1'-0"



KEY PLAN

### GENERAL NOTES

- A. ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR THE ACTUAL FIELD CONDITIONS AT NO EXPENSE TO THE OWNER.
- B. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE PLANS, AND FAMILIARIZE THEMSELVES WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK.
- C. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ECT. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.
- D. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL DEVICES IN WALLS BEING REMOVED. REMOVE BOXES, CONDUITS, AND WIRE TO SOURCE OR FIRST JUNCTION BOX TO MAINTAIN EXISTING DEVICES ON SAME CIRCUIT.
- E. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.
- F. PATCH AND REPAIR ALL FINISHES ASSOCIATED WITH REMOVAL AND REPLACEMENT OF ELECTRICAL DEVICES. COORDINATE FINAL EXTENTS OF WORK IN FIELD.

### DEMOLITION KEYNOTES

- D1 ROOMS IN HATCHED AREA NOT IN SCOPE OF WORK. ALL EXISTING FIXTURES, DEVICES, AND EQUIPMENT TO REMAIN.
- D3 DISCONNECT AND REMOVE DEVICE. REMOVE RECESSED BOX, CONDUIT, AND WIRE TO FIRST JUNCTION BOX.
- D5 DISCONNECT AND REMOVE EXISTING COFFIN FLOOR BOX. DISCONNECT AND REMOVE EXISTING WIRE FOR FURNITURE POWER TO SOURCE. SALVAGE EXISTING COFFIN FLOOR BOXES FOR FUTURE WORK IF IN GOOD CONDITION.
- D6 REMOVE EXISTING RECEPTACLE AND WIRE. COORDINATE PATCHING/COVERING OF HOLE WITH NEW WALL CONSTRUCTION IN FIELD.

STATE OF MICHIGAN  
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
FACILITIES AND BUSINESS SERVICES ADMINISTRATION  
DESIGN AND CONSTRUCTION DIVISION  
ADAM LACH, R.A., NCARB, DIRECTOR



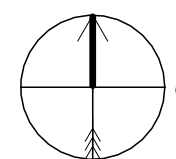
Engineering  
& Design

Colliers  
7000 West Saginaw Hwy  
Livonia, MI 48150  
Office: 517.827.8872  
www.colliersengineering.com

OTTAWA BUILDING - SIGMA  
MOVE TO 1ST FLOOR

611 W. OTTAWA STREET, LANSING, MI 48333

| DESIGNED | JTB | DATE       | ISSUED FOR                                       | IDENTIFICATION NO.                 | SHEET |
|----------|-----|------------|--------------------------------------------------|------------------------------------|-------|
| DRAWN    | JTB | 09/18/2026 | BIDS/PERMITS <input checked="" type="checkbox"/> | FILE NO.<br>171/26231.ABG          | ED101 |
| CHECKED  | DDM |            | CONSTRUCTION <input type="checkbox"/>            | INDEX NO.<br>Y26312                |       |
| APPROVED | DDM |            | FINAL RECORD <input type="checkbox"/>            | ARCHITECT PROJECT NO.<br>26008432A |       |



SCALE :  $3/32" = 1'-0"$

## GENERAL NOTES

- A. ANY EXISTING CONDITIONS INDICATED ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR THE ACTUAL FIELD CONDITIONS AT NO EXPENSE TO THE OWNER.
- B. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE PLANS, AND FAMILIARIZE THEMSELF WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK.
- C. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ECT. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.
- D. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL DEVICES IN WALLS BEING REMOVED. REMOVE BOXES, CONDUITS, AND WIRE TO SOURCE OR FIRST JUNCTION BOX TO MAINTAIN EXISTING DEVICES ON SAME CIRCUIT.
- E. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.
- F. PATCH AND REPAIR ALL FINISHES ASSOCIATED WITH REMOVAL AND REPLACEMENT OF ELECTRICAL DEVICES. COORDINATE FINAL EXTENTS OF WORK IN FIELD.

DEMOLITION KEYNOTES 

- D1 ROOMS IN HATCHED AREA NOT IN SCOPE OF WORK. ALL EXISTING FIXTURES, DEVICES, AND EQUIPMENT TO REMAIN.
- D2 NO WORK IN SPACE. ALL EXISTING EQUIPMENT, DEVICES, AND LIGHT FIXTURES IN SPACE SHALL REMAIN.
- D4 DISCONNECT LIGHT FIXTURES AND RETURN TO OWNER (SOM).



Engineering  
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**OTTAWA BUILDING - SIGMA  
MOVE TO 1ST FLOOR**

6111 W. OTTAWA STREET, LANSING, MI 48933

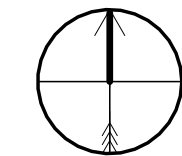
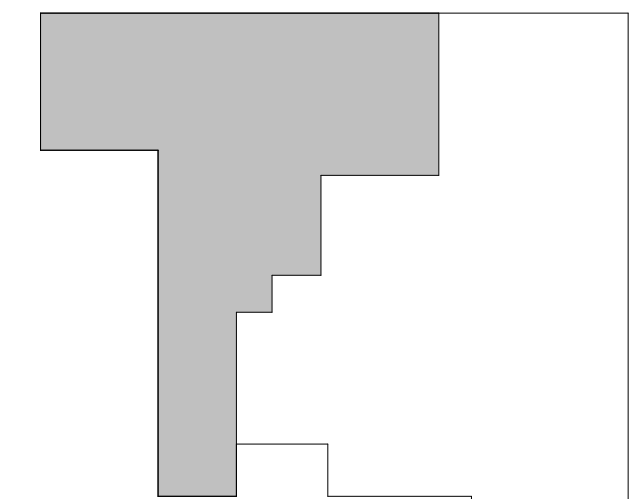
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| DESIGNED | JTB |
| DRAWN    | JTB |
| CHECKED  | DDM |
| APPROVED | DDM |

DATE 09/18/2026

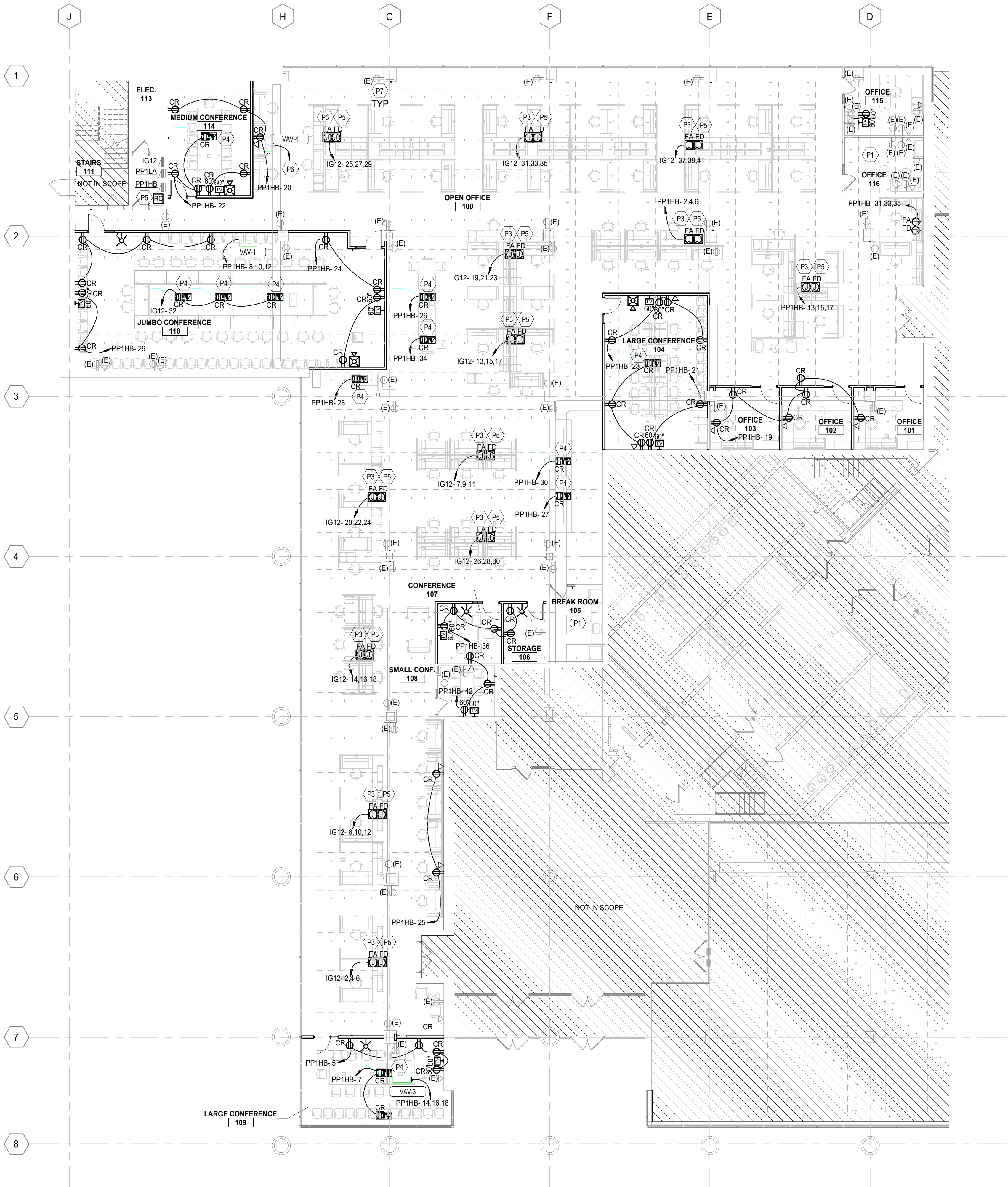
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| ISSUED FOR   | <input checked="" type="checkbox"/> |
| BIDS/PERMITS | <input type="checkbox"/>            |
| CONSTRUCTION | <input type="checkbox"/>            |
| FINAL RECORD | <input type="checkbox"/>            |

IDENTIFICATION NO.  
FILE NO.  
171/26231.ABG  
INDEX NO.  
Y26312  
ARCHITECT PROJECT NO.  
26008432A

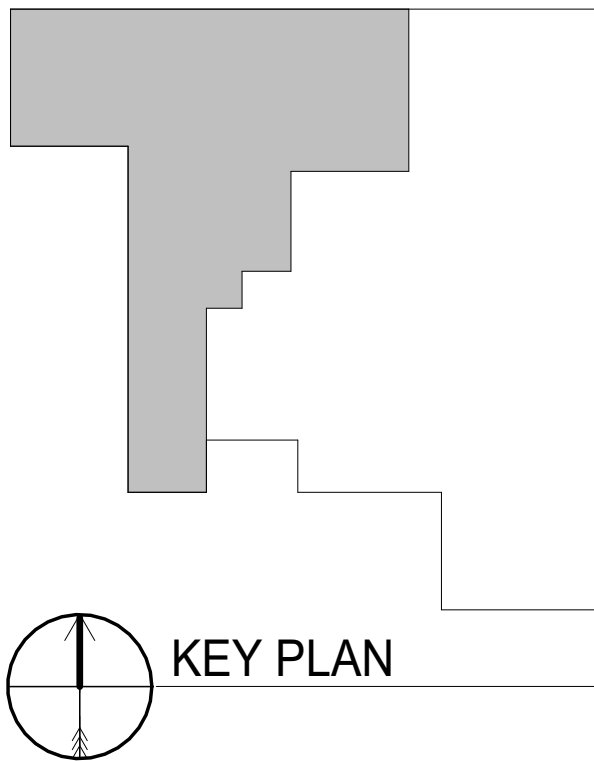
SHEET  
**ED201**



## KEY PLAN



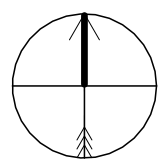
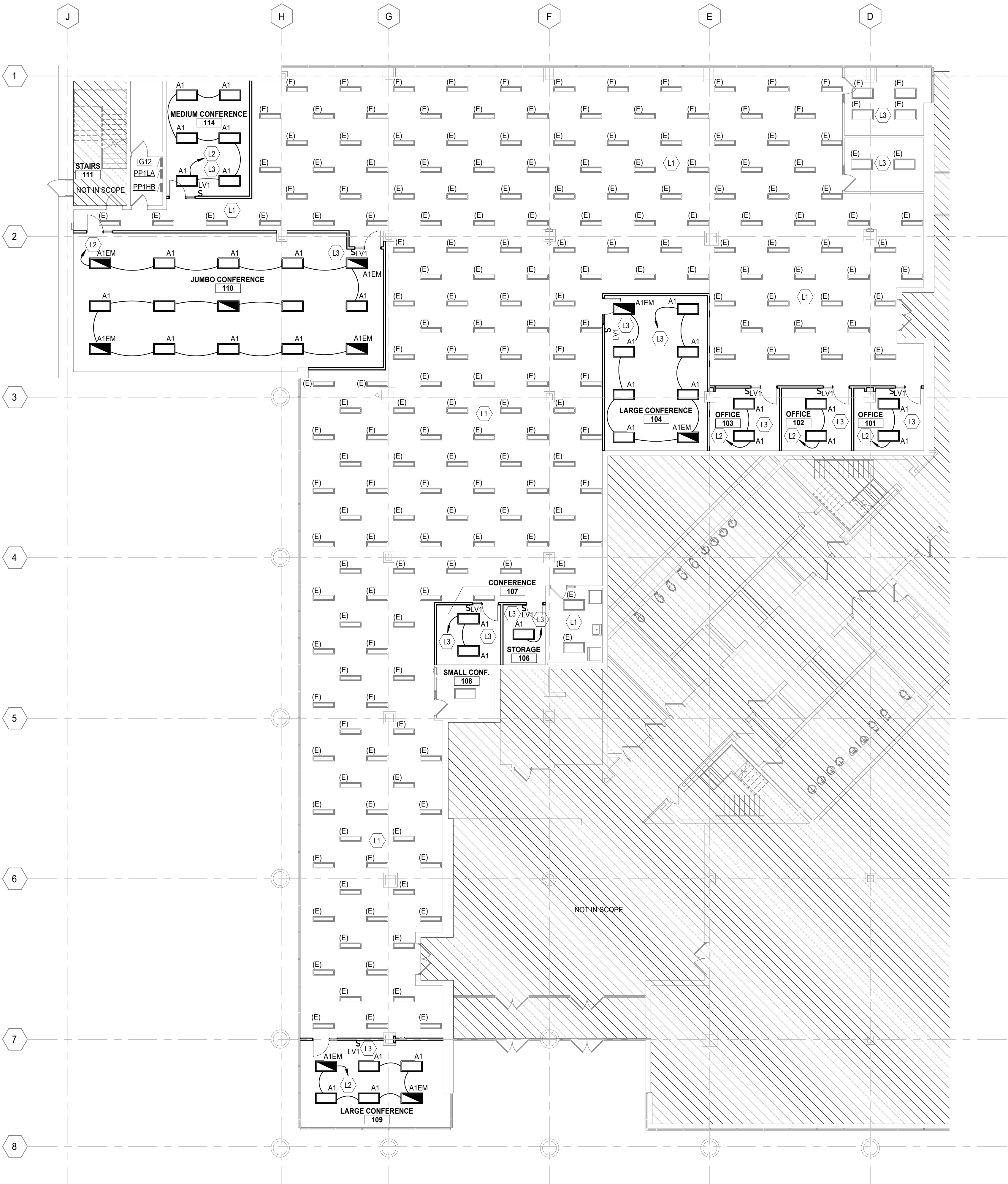
1 FIRST FLOOR POWER PLAN  
SCALE : 3/32" = 1'-0"



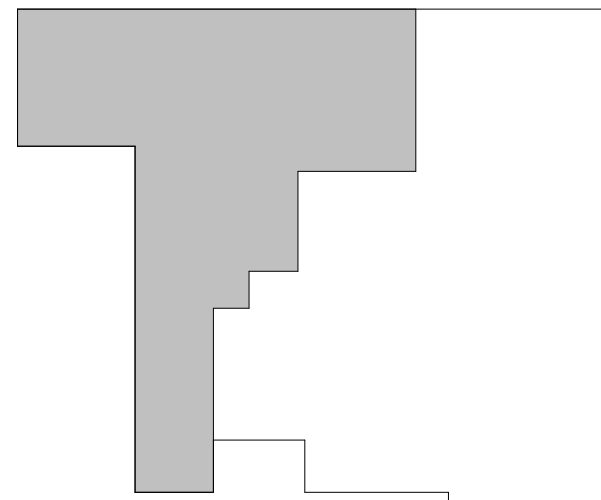
- GENERAL NOTES**
- A. PROVIDE 2-INCH CONDUIT SLEEVE AND SEAL AS REQUIRED PER ARCHITECTURAL CODE PLANS INTO ALL SPACES WITH LOW VOLTAGE DEVICES. OPEN OFFICES SHALL BE PROVIDED WITH A MINIMUM OF (4) SLEEVES AND TRAINING ROOMS WITH A MINIMUM OF (3) SLEEVES.
  - B. COORDINATE ALL DEVICE LOCATIONS AND CIRCUIT ROUTING WITHIN MILLWORK WITH MILLWORK VENDOR PRIOR TO ROUGH-IN.
  - C. PROVIDE PLUG LOAD CONTROLLERS FOR ALL ROOMS WITH CONTROLLED RECEPTACLES. REFER TO LIGHTING CONTROLS SEQUENCE OF OPERATIONS.

- POWER KEYNOTES** #
- P1 NO WORK IN SPACE UNLESS OTHERWISE NOTED.
  - P3 CONTRACTOR SHALL REINSTALL EXISTING COFFIN PEDESTAL FOR POWER AND DATA FURNITURE FEED. CONTRACTOR SHALL PROVIDE ANY NEW REQUIRED PARTS FOR A CLEAN AND FULLY FUNCTIONAL INSTALLATION.
  - P4 CONTRACTOR SHALL REINSTALL EXISTING COFFIN PEDESTAL FOR POWER AND DATA OUTLETS. CONTRACTOR SHALL PROVIDE ANY NEW REQUIRED PARTS FOR A CLEAN AND FULLY FUNCTIONAL INSTALLATION.
  - P5 CONTRACTOR SHALL PROVIDE ROOM CONTROLLER FOR TIME OF DAY CONTROL OF CONTROLLED FURNITURE FEEDS. TIMER SHALL BE PROGRAMMED TO TURN TOP OUTLET OF SPLIT RECEPTACLES ON PRIOR TO OPEN OF BUSINESS AND TURN TOP OUTLET OF SPLIT RECEPTACLES OFF AFTER CLOSE OF BUSINESS. COORDINATE WITH OWNER FOR BUSINESS HOURS PRIOR TO PROGRAMMING.
  - P6 REUSE CIRCUIT POWERING PREVIOUS VAV UNIT IN SPACE FOR NEW UNIT. CONFIRM VOLTAGE AND PHASE MATCH BEFORE CONNECTING NEW UNIT.
  - P7 PROVIDE CONTROLLED SPLIT RECEPTACLE WITH LABEL AT ALL EXISTING RECEPTACLE LOCATIONS (TYPICAL).

|                                                                                                                                                                                                        |  |                                                                                                                              |                                              |           |             |              |                                         |                                                                                                                                                  |                                                                                                     |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------|-------------|--------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------|
| STATE OF MICHIGAN<br>DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET<br>FACILITIES AND BUSINESS SERVICES ADMINISTRATION<br><b>DESIGN AND CONSTRUCTION DIVISION</b><br>ADAM LACH, R.A., NCARB, DIRECTOR |  | Engineering & Design<br><br>7000 West Square Hwy<br>Lansing, MI 48117<br>office: 517.827.8872<br>www.colliersengineering.com | OTTAWA BUILDING - SIGMA<br>MOVE TO 1ST FLOOR |           |             |              | 611 W. OTTAWA STREET, LANSING, MI 48333 |                                                                                                                                                  |                                                                                                     |                      |
|                                                                                                                                                                                                        |  |                                                                                                                              | DESIGNED JTB                                 | DRAWN JTB | CHECKED DDW | APPROVED DDW | DATE<br>08/18/2026                      | ISSUED FOR<br>BIDS/PERMITS <input checked="" type="checkbox"/><br>CONSTRUCTION <input type="checkbox"/><br>FINAL RECORD <input type="checkbox"/> | IDENTIFICATION NO.<br>FILE NO. 171/26231.ABG<br>INDEX NO. Y26312<br>ARCHITECT PROJECT NO. 26008432A | SHEET<br><b>E101</b> |



1 FIRST FLOOR LIGHTING PLAN  
SCALE : 3/32" = 1'-0"



KEY PLAN

### GENERAL NOTES

A. LUMINAIRES MARKED "E" ARE EXISTING LUMINAIRES THAT ARE TO REMAIN IN PLACE. ALL EXISTING LUMINAIRES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REPAIRED TO A LIKE-NEW CONDITION, THOROUGHLY CLEANED, AND RELAMPED. ANY EXISTING LUMINAIRE THAT ARE DAMAGED BEYOND REPAIR SHALL BE REPLACED WITH AN IDENTICAL LUMINAIRE.

### LIGHTING KEYNOTES

- L1 NO WORK IN AREA UNLESS OTHERWISE NOTED.
- L2 CIRCUIT FIXTURES WITH PREVIOUS CIRCUIT SERVING SPACE.
- L3 CONTRACTOR SHALL PROVIDE PLUG LOAD CONTROLLER TO CONTROL RECEPTACLES WITHIN ROOM. PLUG LOAD CONTROLLER SHALL BE PROGRAMMED TO OPERATE IN CONJUNCTION WITH LIGHTING CONTROLS WITHIN SPACE. CONTROLLED RECEPTACLES SHALL HAVE POWER WHEN MOTION IS DETECTED IN ROOM. POWER SHALL BE TURNED OFF AFTER 20 MINUTES OF NO ACTIVITY.



|                                                  |                                    |            |     |
|--------------------------------------------------|------------------------------------|------------|-----|
| SHEET                                            | IDENTIFICATION NO.                 | DESIGNED   | JTB |
|                                                  | FILE NO.<br>171/26231.ABG          | DRAWN      | JTB |
|                                                  | INDEX NO.<br>Y26312                | CHECKED    | DDM |
|                                                  | ARCHITECT PROJECT NO.<br>26008432A | APPROVED   | DDM |
| ISSUED FOR                                       |                                    | DATE       |     |
| BIDS/PERMITS <input checked="" type="checkbox"/> |                                    | 08/18/2026 |     |
| CONSTRUCTION <input type="checkbox"/>            |                                    |            |     |
| FINAL RECORD <input type="checkbox"/>            |                                    |            |     |
| E201                                             |                                    |            |     |

| Branch Panel: IG12                      |                                        |       |                |                 |               |         |              |                                        |                           |       |      |                                        |     |
|-----------------------------------------|----------------------------------------|-------|----------------|-----------------|---------------|---------|--------------|----------------------------------------|---------------------------|-------|------|----------------------------------------|-----|
| Location: ELEC. 112                     |                                        |       |                | Volts: 208Y/120 |               |         |              | A.I.C. Rating: 10,000 AMPS SYMMETRICAL |                           |       |      |                                        |     |
| Supply From:                            |                                        |       |                | Phases: 3       |               |         |              | Mains Type: MCB                        |                           |       |      |                                        |     |
| Mounting: SURFACE                       |                                        |       |                | Wires: 4        |               |         |              | Mains Rating: 225 A                    |                           |       |      |                                        |     |
| Enclosure: NEMA1                        |                                        |       |                |                 |               |         |              | MCB Rating: 100 A                      |                           |       |      |                                        |     |
| Notes:                                  |                                        |       |                |                 |               |         |              |                                        |                           |       |      |                                        |     |
| CKT                                     | Circuit Description                    | Trip  | Poles          | PHASE A         |               | PHASE B |              | PHASE C                                |                           | Poles | Trip | Circuit Description                    | CKT |
| 1                                       |                                        |       |                | 0               | 1080          |         |              |                                        |                           |       |      |                                        | 2   |
| 3                                       | MAIN                                   | 100 A | 3              |                 |               | 0       | 1080         |                                        |                           | 3     | 20 A | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 4   |
| 5                                       |                                        |       |                |                 |               |         |              | 0                                      | 1080                      |       |      |                                        | 6   |
| 7                                       |                                        |       |                | 1080            | 1080          |         |              |                                        |                           |       |      |                                        | 8   |
| 9                                       | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 20 A  | 3              |                 |               | 1080    | 1080         |                                        |                           | 3     | 20 A | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 10  |
| 11                                      |                                        |       |                |                 |               |         |              | 1080                                   | 1080                      |       |      |                                        | 12  |
| 13                                      |                                        |       |                | 1080            | 1080          |         |              |                                        |                           |       |      |                                        | 14  |
| 15                                      | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 20 A  | 3              |                 |               | 1080    | 1080         |                                        |                           | 3     | 20 A | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 16  |
| 17                                      |                                        |       |                |                 |               |         |              | 1080                                   | 1080                      |       |      |                                        | 18  |
| 19                                      |                                        |       |                | 1080            | 1080          |         |              |                                        |                           |       |      |                                        | 20  |
| 21                                      | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 20 A  | 3              |                 |               | 1080    | 1080         |                                        |                           | 3     | 20 A | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 22  |
| 23                                      |                                        |       |                |                 |               |         |              | 1080                                   | 1080                      |       |      |                                        | 24  |
| 25                                      |                                        |       |                | 1080            | 1080          |         |              |                                        |                           |       |      |                                        | 26  |
| 27                                      | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 20 A  | 3              |                 |               | 1080    | 1080         |                                        |                           | 3     | 20 A | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 28  |
| 29                                      |                                        |       |                |                 |               |         |              | 1080                                   | 1080                      |       |      |                                        | 30  |
| 31                                      |                                        |       |                | 1080            | 540           |         |              |                                        |                           | 1     | 20 A | JUMBO CONF. FLOORBOXES                 | 32  |
| 33                                      | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 20 A  | 3              |                 |               | 1080    | 180          |                                        |                           | 1     | 20 A | E. CONF RCPT                           | 34  |
| 35                                      |                                        |       |                |                 |               |         |              | 1080                                   | 180                       | 1     | 20 A | E. CONF RCPT                           | 36  |
| 37                                      |                                        |       |                | 1080            | 180           |         |              |                                        |                           | 1     | 20 A | E. CONF RCPT                           | 38  |
| 39                                      | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 20 A  | 3              |                 |               | 1080    | 180          |                                        |                           | 1     | 20 A | E. CONF RCPT                           | 40  |
| 41                                      |                                        |       |                |                 |               |         |              | 1080                                   | 180                       | 1     | 20 A | E. CONF RCPT                           | 42  |
| Total Load:                             |                                        |       |                | 13 kVA          |               | 12 kVA  |              | 12 kVA                                 |                           |       |      |                                        |     |
| Total Amps:                             |                                        |       |                | 105 A           |               | 102 A   |              | 102 A                                  |                           |       |      |                                        |     |
| Load Classification                     |                                        |       | Connected Load |                 | Demand Factor |         | Estimated... |                                        | Panel Totals              |       |      |                                        |     |
| RCPT                                    |                                        |       | 37 kVA         |                 | 63.48%        |         | 24 kVA       |                                        |                           |       |      |                                        |     |
|                                         |                                        |       |                |                 |               |         |              |                                        | Total Conn. Load: 37 kVA  |       |      |                                        |     |
|                                         |                                        |       |                |                 |               |         |              |                                        | Total Est. Demand: 24 kVA |       |      |                                        |     |
|                                         |                                        |       |                |                 |               |         |              |                                        | Total Conn.: 103 A        |       |      |                                        |     |
|                                         |                                        |       |                |                 |               |         |              |                                        | Total Est. Demand: 65 A   |       |      |                                        |     |
| Notes:                                  |                                        |       |                |                 |               |         |              |                                        |                           |       |      |                                        |     |
| EXISTING CUTLER-HAMMER PRL1a PANELBOARD |                                        |       |                |                 |               |         |              |                                        |                           |       |      |                                        |     |
| BOLD TEXT: PROVIDE NEW BREAKER          |                                        |       |                |                 |               |         |              |                                        |                           |       |      |                                        |     |

| Branch Panel: PP1HB                    |                                        |                |       |                 |         |              |       |                                        |                     |        |  |
|----------------------------------------|----------------------------------------|----------------|-------|-----------------|---------|--------------|-------|----------------------------------------|---------------------|--------|--|
| Location: ELEC. 112                    |                                        |                |       | Volts: 208Y/120 |         |              |       | A.I.C. Rating: 10,000 AMPS SYMMETRICAL |                     |        |  |
| Supply From:                           |                                        |                |       | Phases: 3       |         |              |       | Mains Type: MCB                        |                     |        |  |
| Mounting: SURFACE                      |                                        |                |       | Wires: 4        |         |              |       | Mains Rating: 225 A                    |                     |        |  |
| Enclosure: NEMA1                       |                                        |                |       |                 |         |              |       | MCB Rating: 225 A                      |                     |        |  |
| Notes:                                 |                                        |                |       |                 |         |              |       |                                        |                     |        |  |
| CKT                                    | Circuit Description                    | Trip           | Poles | PHASE A         | PHASE B | PHASE C      | Poles | Trip                                   | Circuit Description | CKT    |  |
| 1                                      | E. Stair #15 Recepts                   | 20 A           | 1     | 180             | 1080    |              |       |                                        |                     | 2      |  |
| 3                                      | E. F1-F3 Column Recepts                | 20 A           | 1     |                 | 180     | 1080         |       | 3                                      | 20 A                | 4      |  |
| 5                                      | LARGE CONFERENCE 109 RCPT              | 20 A           | 1     |                 |         | 720          | 1080  |                                        |                     | 6      |  |
| 7                                      | LARGE CONFERENCE 109 RCPT              | 20 A           | 1     | 180             | 1367    |              |       |                                        |                     | 8      |  |
| 9                                      | E. West Room Recepts                   | 20 A           | 1     |                 | 540     | 1367         |       | 3                                      | 20 A                | 10     |  |
| 11                                     | E. West Room Recepts                   | 20 A           | 1     |                 |         | 360          | 1367  |                                        |                     | 12     |  |
| 13                                     | OPEN OFFICE 100 FURNITURE WORKSTATIONS | 20 A           | 3     | 1080            | 1101    |              |       | 3                                      | 20 A                | 14     |  |
| 15                                     |                                        |                |       |                 | 1080    | 1101         |       |                                        |                     | 16     |  |
| 17                                     |                                        |                |       |                 |         | 1080         | 1101  |                                        |                     | 18     |  |
| 19                                     | OFFICE 101/102/103 RCPT                | 20 A           | 1     | 1080            | 540     |              |       | 1                                      | 20 A                | 20     |  |
| 21                                     | LARGE CONF. FLOOR/WALL...              | 20 A           | 1     |                 | 900     | 720          |       | 1                                      | 20 A                | 22     |  |
| 23                                     | LARGE CONF. WALL RCPT                  | 20 A           | 1     |                 |         | 720          | 720   | 1                                      | 20 A                | 24     |  |
| 25                                     | WALL DESK RCPT                         | 20 A           | 1     | 360             | 180     |              |       | 1                                      | 20 A                | 26     |  |
| 27                                     | OPEN OFFICE 100 FLOOR RCPT             | 20 A           | 1     |                 | 1200    | 1200         |       | 1                                      | 20 A                | 28     |  |
| 29                                     | JUMBO CONF. RCPT                       | 20 A           | 1     |                 |         | 1080         | 1200  | 1                                      | 20 A                | 30     |  |
| 31                                     | OPEN OFFICE 100 FURNITURE AGAINST WALL | 20 A           | 3     | 1080            | 900     |              |       | 1                                      | 20 A                | 32     |  |
| 33                                     |                                        |                |       |                 | 1080    | 180          |       | 1                                      | 20 A                | 34     |  |
| 35                                     |                                        |                |       |                 |         | 1080         | 900   | 1                                      | 20 A                | 36     |  |
| 37                                     | E. G1-G3 Recepts                       | 20 A           | 1     | 180             | 180     |              |       | 1                                      | 20 A                | 38     |  |
| 39                                     | E. H3-J3 Recepts                       | 20 A           | 1     |                 | 180     | 180          |       | 1                                      | 20 A                | 40     |  |
| 41                                     | E. H1-J2 Recepts                       | 20 A           | 1     |                 |         | 180          | 900   | 1                                      | 20 A                | 42     |  |
| Total Load:                            |                                        |                |       | 9 kVA           | 11 kVA  | 12 kVA       |       |                                        |                     |        |  |
| Total Amps:                            |                                        |                |       | 79 A            | 93 A    | 106 A        |       |                                        |                     |        |  |
| Load Classification                    |                                        | Connected Load |       | Demand Factor   |         | Estimated... |       | Panel Totals                           |                     |        |  |
| Other                                  |                                        | 3 kVA          |       | 100.00%         |         | 3 kVA        |       |                                        |                     |        |  |
| RCPT                                   |                                        | 22 kVA         |       | 72.40%          |         | 16 kVA       |       | Total Conn. Load:                      |                     | 33 kVA |  |
| HEAT                                   |                                        | 7 kVA          |       | 100.00%         |         | 7 kVA        |       | Total Est. Demand:                     |                     | 27 kVA |  |
|                                        |                                        |                |       |                 |         |              |       | Total Conn.:                           |                     | 91 A   |  |
|                                        |                                        |                |       |                 |         |              |       | Total Est. Demand:                     |                     | 74 A   |  |
| Notes:                                 |                                        |                |       |                 |         |              |       |                                        |                     |        |  |
| EXISTING CUTLER-HAMMER PRL1 PANELBOARD |                                        |                |       |                 |         |              |       |                                        |                     |        |  |
| BOLD TEXT: PROVIDE NEW BREAKER         |                                        |                |       |                 |         |              |       |                                        |                     |        |  |

| LUMINAIRE SCHEDULE                                                               |                        |              |                                                                 |                |                       |               |                                                                           |      |  |
|----------------------------------------------------------------------------------|------------------------|--------------|-----------------------------------------------------------------|----------------|-----------------------|---------------|---------------------------------------------------------------------------|------|--|
| TYPE                                                                             | LAMP                   | MANUFACTURER | MODEL NUMBER                                                    | BALLAST/DRIVER | MOUNTING              | INPUT WATTAGE | DESCRIPTION                                                               | NOTE |  |
| A1                                                                               | 3500 LUMEN, 3500K, LED | METALUX      | 24CZ2-40-UNV-L835-CD1                                           | 0-10V          | RECESSED GRID CEILING | 27W           | 2x4 TROFFER. PROVIDE INTEGRAL OCCUPANCY SENSOR                            | 1    |  |
|                                                                                  |                        | COLUMBIA     | LCAT-40-MW-G-ED-U-NXE                                           |                |                       |               |                                                                           |      |  |
|                                                                                  |                        | LITHONIA     | STAK-2X4-4000LM-80CRI-35K-COLT-MIN1-ZT-MVOLT-NLTAIR2-APIR       |                |                       |               |                                                                           |      |  |
|                                                                                  |                        | PINNACLE     | AD24-A-3535-G9-U-FSD-1-W-WS                                     |                |                       |               |                                                                           |      |  |
|                                                                                  |                        | DAY-BRITE    | 2EVO-G-43L-835-4-D-UNV-DIM-SWZG2                                |                |                       |               |                                                                           |      |  |
| A1EM                                                                             | 3500 LUMEN, 3500K, LED | METALUX      | 24CZ2-40-UNV-L835-CD1-EL10W                                     | 0-10V          | RECESSED GRID CEILING | 27W           | 2x4 TROFFER. PROVIDE INTEGRAL OCCUPANCY SENSOR. PROVIDE EMERGENCY BATTERY | 1    |  |
|                                                                                  |                        | COLUMBIA     | LCAT-40-MW-G-ED-U-NXE-EL10W                                     |                |                       |               |                                                                           |      |  |
|                                                                                  |                        | LITHONIA     | STAK-2X4-4000LM-80CRI-35K-COLT-MIN1-ZT-MVOLT-NLTAIR2-APIR-EL10W |                |                       |               |                                                                           |      |  |
|                                                                                  |                        | PINNACLE     | AD24-A-3535-G9-U-FSD-1-W-WS-EL10W                               |                |                       |               |                                                                           |      |  |
|                                                                                  |                        | DAY-BRITE    | 2EVO-G-43L-835-4-D-UNV-DIM-SWZG2-EL10W                          |                |                       |               |                                                                           |      |  |
| NOTES: 1. PROVIDE PROGRAMMING REMOTE AS REQUIRED TO PROGRAM INTEGRATED CONTROLS. |                        |              |                                                                 |                |                       |               |                                                                           |      |  |

LIGHTING CONTROLS SEQUENCE OF OPERATIONS

1. ALL SWITCHES WITH "LV#" ARE LOW VOLTAGE WIRED CONTROL STATIONS. PROVIDE ON/OFF BUTTONS, PRE-PROGRAMMED SCENES, INTEGRAL OCCUPANCY SENSING, AND/OR DIMMING CONTROL AS DESCRIBED BELOW PER SPACE.
2. LUMINAIRES SPECIFIED HAVE INTEGRATED CONTROLS, UNLESS SPECIFIED OTHERWISE. CONTRACTOR SHALL PROVIDE LOW VOLTAGE WIRING BETWEEN LUMINAIRES IN SAME SPACE AND TO THE LOW VOLTAGE SWITCH IN SPACE.
3. CONTRACTOR SHALL WIRE THE EMERGENCY BATTERY SENSE AHEAD OF LOCAL CONTROLS, UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL WIRE CONTROLLED DUPLEX RECEPTACLES SO THAT THE TOP RECEPTACLE IS CONTROLLED BY PLUG LOAD CONTROLLER AND BOTTOM RECEPTACLE IS UNCONTROLLED. PLUG LOAD CONTROLLERS SHALL BE PROGRAMMED TO OPERATE WITH IN-ROOM WIRELESS CONTROLS. PLUG LOAD CONTROLLER SHALL BE PROGRAMMED TO PROVIDE POWER TO RECEPTACLES WHEN MOTION IS DETECTED AND TURN OFF POWER 20 MINUTES AFTER NO ACTIVITY IS DETECTED.
5. PRIVATE OFFICES, AND CONFERENCE ROOMS:

a. LIGHTING SHALL TURN ON AUTOMATICALLY AT 50%.

b. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY THEN TURN OFF.

c. PROVIDE PLUG LOAD CONTROLLER WHICH SHALL BE PROGRAMMED TO PROVIDE POWER TO RECEPTACLES WHEN MOTION IS DETECTED AND TURN OFF POWER TO BOTTOM OUTLET 20 MINUTES AFTER NO ACTIVITY IS DETECTED.

d. LV1 STATIONS SHALL INCLUDE BUTTONS:

1. ALL ON

2. DIM UP

3. DIM DOWN

4. ALL OFF
5. STORAGE CLOSET:

a. LIGHTING SHALL TURN ON AUTOMATICALLY AT 100%.

b. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY THEN TURN OFF.

c. LV2 STATIONS SHALL INCLUDE BUTTONS:

1. ALL ON

2. ALL OFF