



UNIVERSITY OF  
**SOUTH CAROLINA**

# USC CAMPUS PLANNING AND CONSTRUCTION 1300 PICKENS STREET COLUMBIA, SOUTH CAROLINA 29208 BARRINGER HOUSE RENOVATIONS

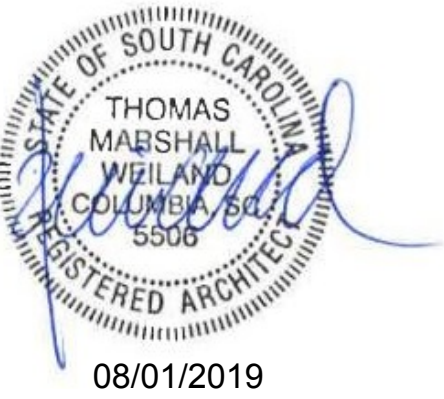
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| number | item | date |
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## DRAWING INDEX

### ARCHITECTURAL

|      |                                                                             |
|------|-----------------------------------------------------------------------------|
| A0.0 | SYMBOLS AND LEGENDS                                                         |
| A0.1 | LIFE SAFETY PLAN - FIRST AND SECOND FLOORS                                  |
| A1.1 | FIRST & SECOND FLOOR DEMOLITION PLANS                                       |
| A2.1 | FIRST & SECOND FLOOR RENOVATION PLANS, ENLARGED PLANS & INTERIOR ELEVATIONS |
| A4.0 | MILLWORK DETAILS, BUILDING SECTIONS & DETAILS, WALL CONSTRUCTION TYPES      |
| A7.1 | FIRST AND SECOND FLOORS REFLECTED CEILING PLAN                              |
| A8.0 | DOOR SCHEDULE, DOOR AND FRAME TYPES, FINISH SCHEDULE & LEGEND               |

### PLUMBING

|      |                                                            |
|------|------------------------------------------------------------|
| P0.0 | PLUMBING DETAILS, NOTES, LEGEND, ABBREVIATIONS & SCHEDULES |
| P1.0 | PARTIAL BASEMENT & BELOW SLAB PLUMBING PLANS               |
| P1.1 | PARTIAL FIRST FLOOR PLUMBING PLANS                         |
| P1.2 | PARTIAL SECOND FLOOR PLUMBING PLANS                        |

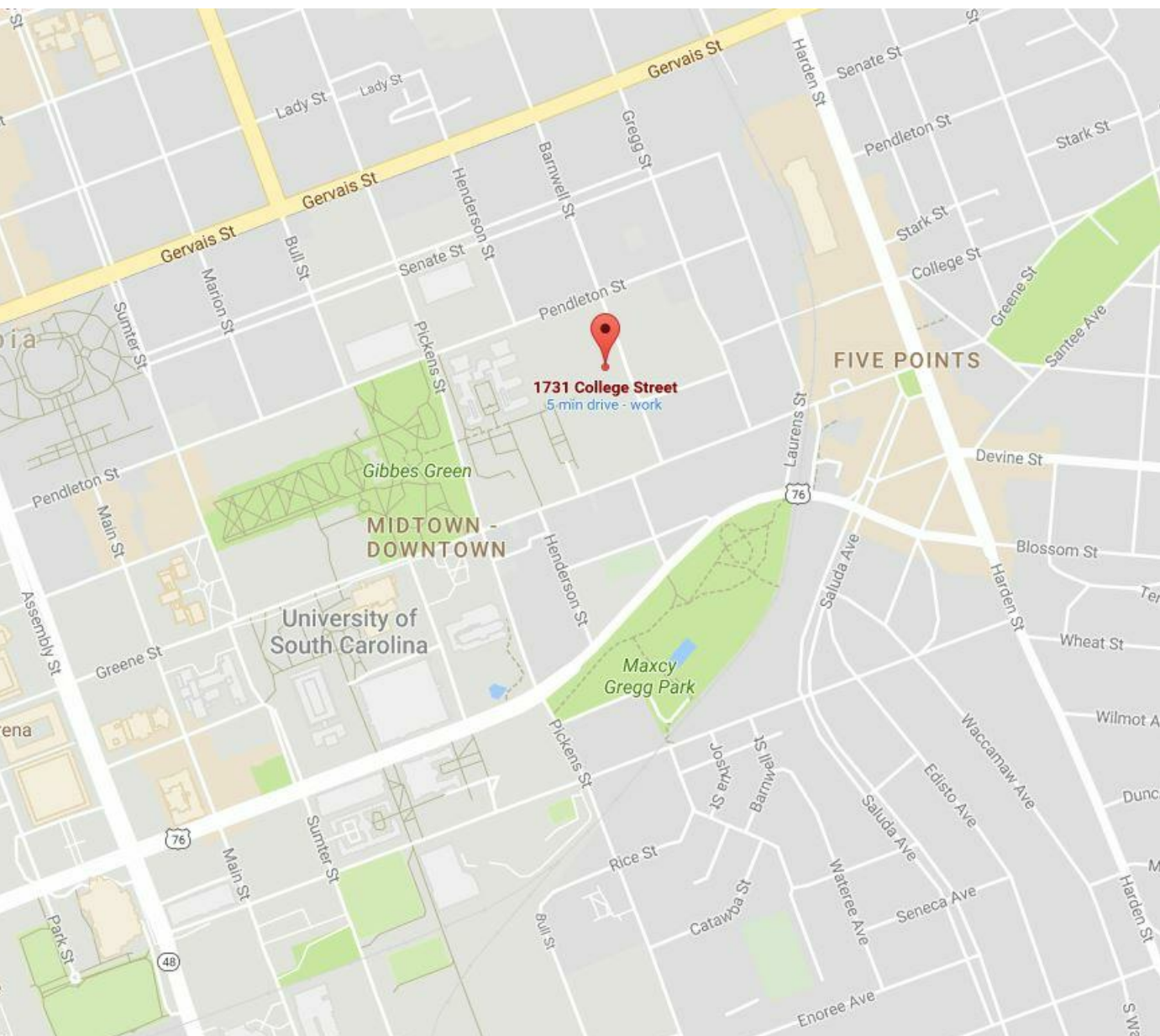
### MECHANICAL

|      |                                   |
|------|-----------------------------------|
| M1.0 | HVAC DEMOLITION BASEMENT PLAN     |
| M1.1 | HVAC DEMOLITION FIRST FLOOR PLAN  |
| M1.2 | HVAC DEMOLITION SECOND FLOOR PLAN |
| M2.0 | HVAC RENOVATION BASEMENT PLAN     |
| M2.1 | HVAC RENOVATION FIRST FLOOR PLAN  |
| M2.2 | HVAC RENOVATION SECOND FLOOR PLAN |
| M6.1 | HVAC DETAILS                      |
| M7.1 | HVAC NOTES & SCHEDULES            |

### ELECTRICAL

|      |                                                                     |
|------|---------------------------------------------------------------------|
| E0.0 | ELECTRICAL SYMBOLS, SCHEDULES & DETAILS                             |
| E0.1 | ELECTRICAL PANEL SCHEDULES & RISER DIAGRAMS                         |
| E1.1 | ELECTRICAL DEMOLITION FIRST AND SECOND FLOOR PLANS                  |
| E2.1 | ELECTRICAL LIGHTING FIRST AND SECOND FLOOR PLAN                     |
| E3.1 | ELECTRICAL POWER AND MECHANICAL WIRING FIRST AND SECOND FLOOR PLANS |
| E4.1 | ELECTRICAL FIRE ALARM FIRST AND SECOND FLOOR PLANS                  |

### VICINITY PLAN





ADJUSTABLE SHELVES

1" FILLER

U/C LIGHT TYP.

COUNTER SINK

1" FILLER

GYP. BD. FASCIA

CABINET WIDTH (INCHES)

36

30

30

30

36

30

30

30

8'-1" MWU

LENGTH OF MILLWORK

7'-2"

STANDARD HEIGHT UNLESS OTHERWISE NOTED

CABINET WIDTH (INCHES)

36

30

30

30

36

30

30

30

2

6 FLOOR DIVISION DETAILS  
N.T.S.

## STRUCTURAL GRID CONVENTIONS

FINISH CEILING

COMBINATION PAPER TOWEL DISPENSER/WASTE RECEPTACLE

59 1/2"

TOILET PAPER DISPENSER

19"

PAPER TOWEL DISPENSER

38" to 48"

SOAP DISPENSER

38" to 48"

MIRROR

40" max.

BOTTOM OF REFLECTIVE SURFACE

SANITARY NAPKIN DISPOSAL

33"

HAND DRYER

38"

41" MAX. FORWARD REACH

54" MAX. SIDE REACH

WATER FOUNTAIN

27" min.

KNEE CLEAR

30" min.

SINK

27" min.

KNEE CLEAR

34" max.

URINAL

17"

NAPKIN/TISSUE DISPENSER

60"

3 BARR

7 TYPICAL BASE DETAILS  
N.T.S.

1 HOUR FIRE AND/OR SMOKE WALL CONSTRUCTION

METAL STUDS

MAINTAIN 1 HOUR CONSTRUCTION AT INTERSECTIONS

NON-RATED WALL CONSTRUCTION

12 1 HC

Technical drawing showing the side view of the sink, urinal, and napkin dispenser with dimensions:

- SINK: 36" max. height, 27" min. KNEE CLEAR height, 34" max. width.
- URINAL: 17" height.
- NAPKINTAMPON DISPENSER: 60" height.

④ CLOS

## VIEW WINDOW SYMBOLS (ON PLANS)

Diagram illustrating a cross-section of a fire-rated wall assembly. The assembly includes:

- 2 HOUR FIRE AND/OR SMOKE WALL CONSTRUCTION
- METAL STUDS
- MAINTAIN 2 HOUR CONSTRUCTION AT INTERSECTIONS
- 1 HOUR FIRE AND/OR SMOKE WALL CONSTRUCTION

13 AND

THE REFERENCE SYSTEM USES A NUMBER FOR EACH DETAIL OR ITEM ON A SHEET COMBINED WITH THE SHEET NUMBER ON WHICH IT IS LOCATED. EACH DETAIL OR ITEM ON A SHEET WILL BE NUMBERED.

SECTION NO.2

SECTION NO.4 ON SHEET A9.0

LOCATION OF LARGE SCALE PLAN

LARGE SCALE BLOW UP OF PLAN AREA

ROOM IDENTIFICATION

ELEVATION SYMBOL (LOOKING IN DIRECTION OF ARROW)

TOILET

ROOM NAME

1020 A

ON SHEET A3.0

ON SHEET A4.0

INTERIOR ELEVATION NO.25

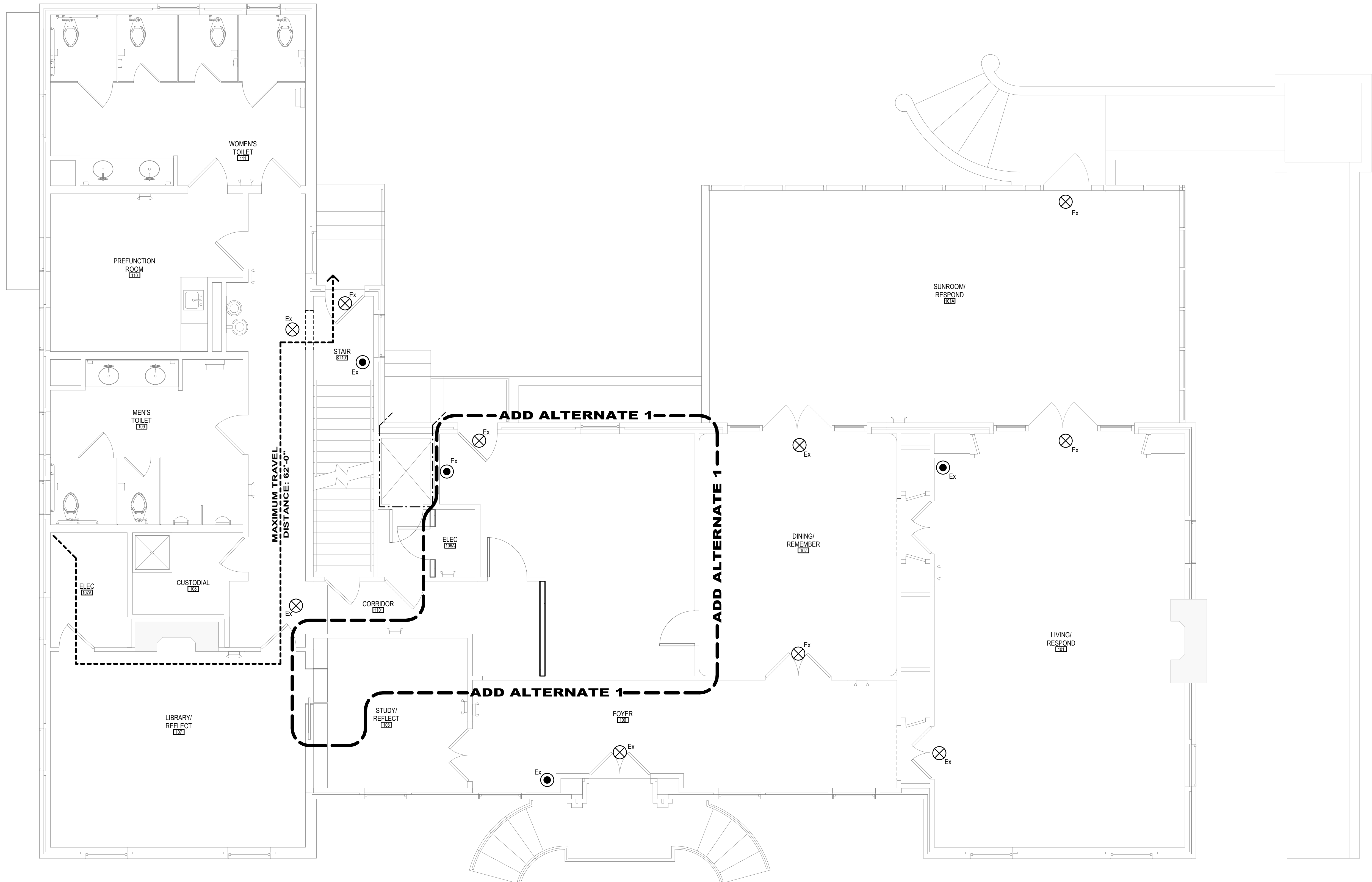
A6.0

5

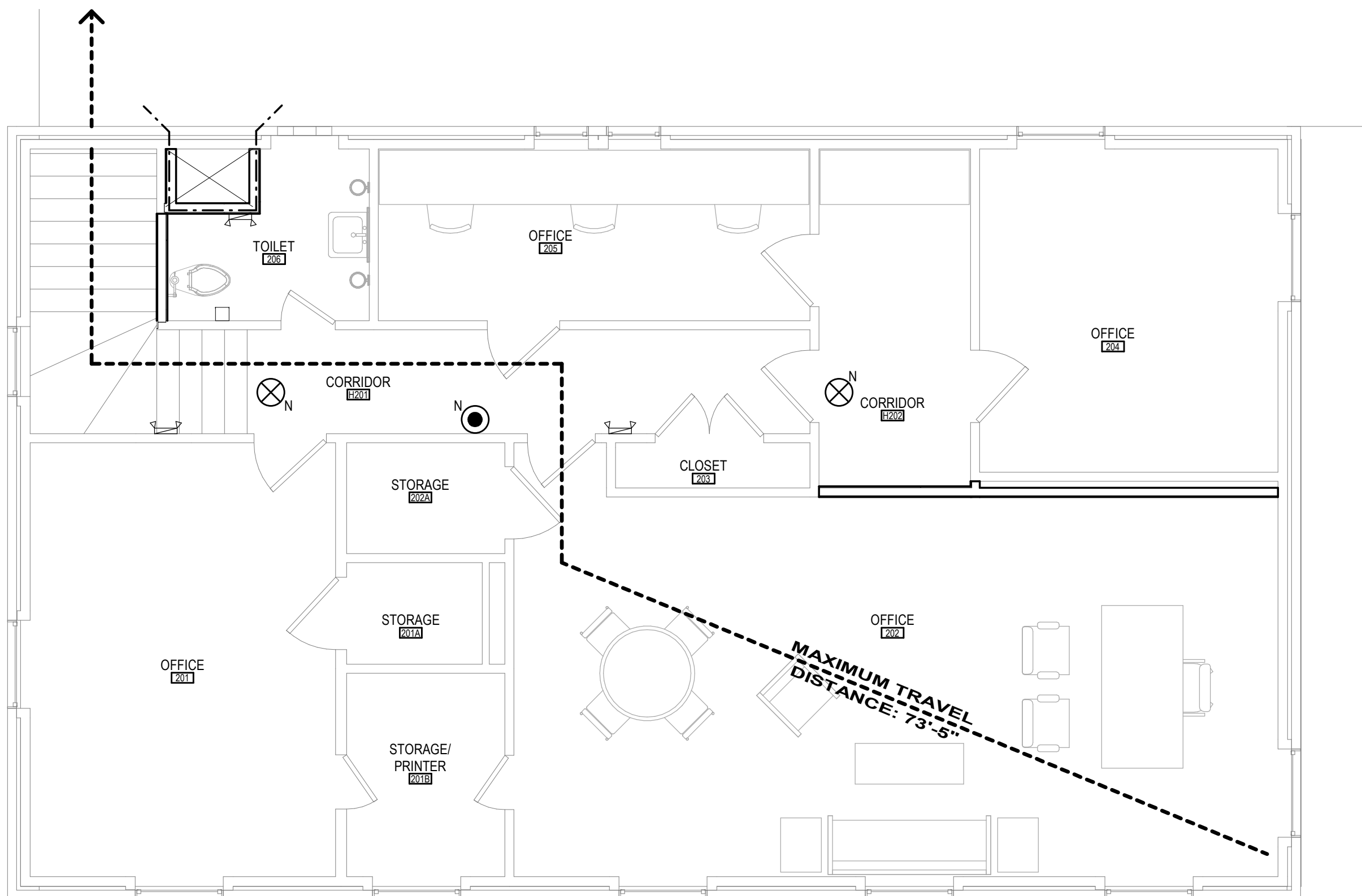
9 PARTITION SYMBOLS

## REFLECTED CEILING PLAN SYMBOLS





**FIRST FLOOR LIFE SAFETY PLAN**  
1 1/4" = 1'-0"



**SECOND FLOOR LIFE SAFETY PLAN**  
1 1/4" = 1'-0"

REQUIRED WORK SEQUENCE:  
A. Construct Work in stages during construction period:  
1. Stage 1: (2nd Floor alterations). Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.  
2. Stage 2: (1st Floor alterations (if alternate is accepted)). Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.  
B. Coordinate construction schedule and operations with Owner.  
C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.



**APPLICABLE CODES :**

- A. INTERNATIONAL BUILDING CODE 2015 EDITION
- B. INTERNATIONAL EXISTING BUILDING CODE 2015 EDITION
- C. INTERNATIONAL MECHANICAL CODE 2015 EDITION
- D. INTERNATIONAL FIRE CODE 2015 EDITION
- E. INTERNATIONAL ENERGY CONSERVATION CODE 2009 EDITION
- F. NATIONAL ELECTRIC CODE 2014 EDITION
- G. INTERNATIONAL PLUMBING CODE 2015 EDITION
- H. ICC/ANSI 117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES 2017 EDITION
- I. ADA-TITLE III PUBLIC ACCOMMODATIONS 2010 EDITION
- J. LIFE SAFETY CODE (NFPA 101) 2012 EDITION
- K. ANY OTHER CODE GOVERNED BY INDUSTRY STANDARDS

**WALL RATING LEGEND:**

SMOKE TIGHT PARTITION (BUT NOT SMOKE RATED.)

1 HOUR FIRE RESISTIVE CONSTRUCTION

1 HOUR FIRE RESISTIVE CONSTRUCTION & SMOKE BARRIER

2 HOUR FIRE RESISTIVE CONSTRUCTION

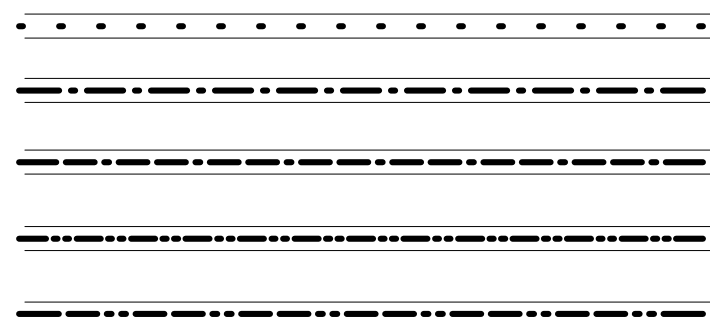
2 HOUR FIRE RESISTIVE CONSTRUCTION & SMOKE BARRIER

NOTE: ALL WALL TYPES ABOVE TO BE LABELED ABOVE CEILINGS NO LESS THAN 15" O.C. IN LETTERING A MINIMUM OF 3" TALL.

CORRIDOR PARTITIONS, SMOKE STOP PARTITIONS, HORIZONTAL EXIT PARTITIONS, EXIT ENCLOSURES, AND FIRE RATED WALLS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN A MANNER ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH IDENTIFICATION SHALL BE ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES.

SUGGESTED WORDING:  
"2-HOUR FIRE SMOKE BARRIER - PROTECT ALL OPENINGS."

----- MAXIMUM TRAVEL DISTANCE PATH



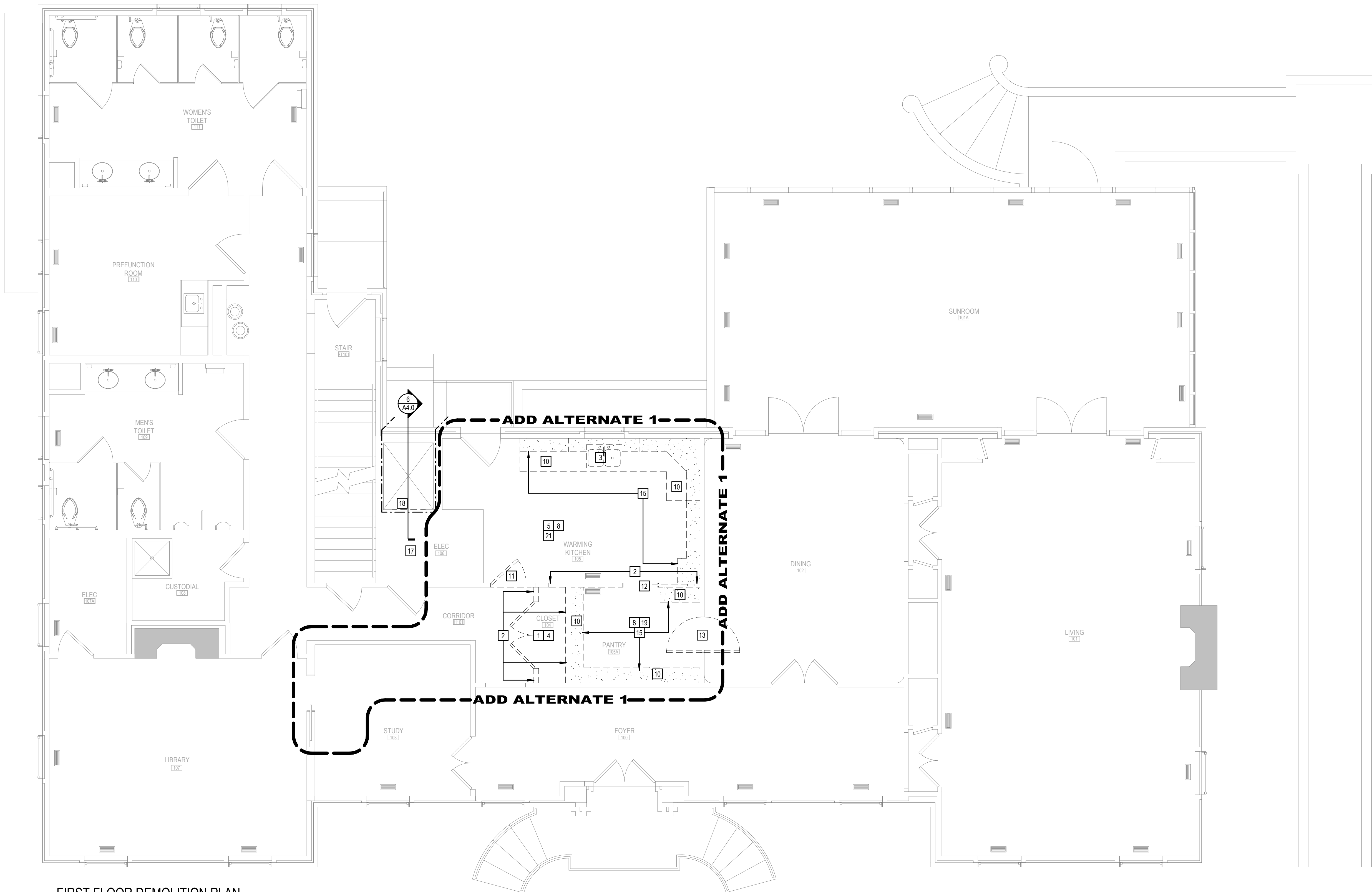
SEE SHEET A0.0 FOR PARTITION CONSTRUCTION & RATINGS

FIRE EXTINGUISHER LOCATION Ex = EXISTING  
N = NEW

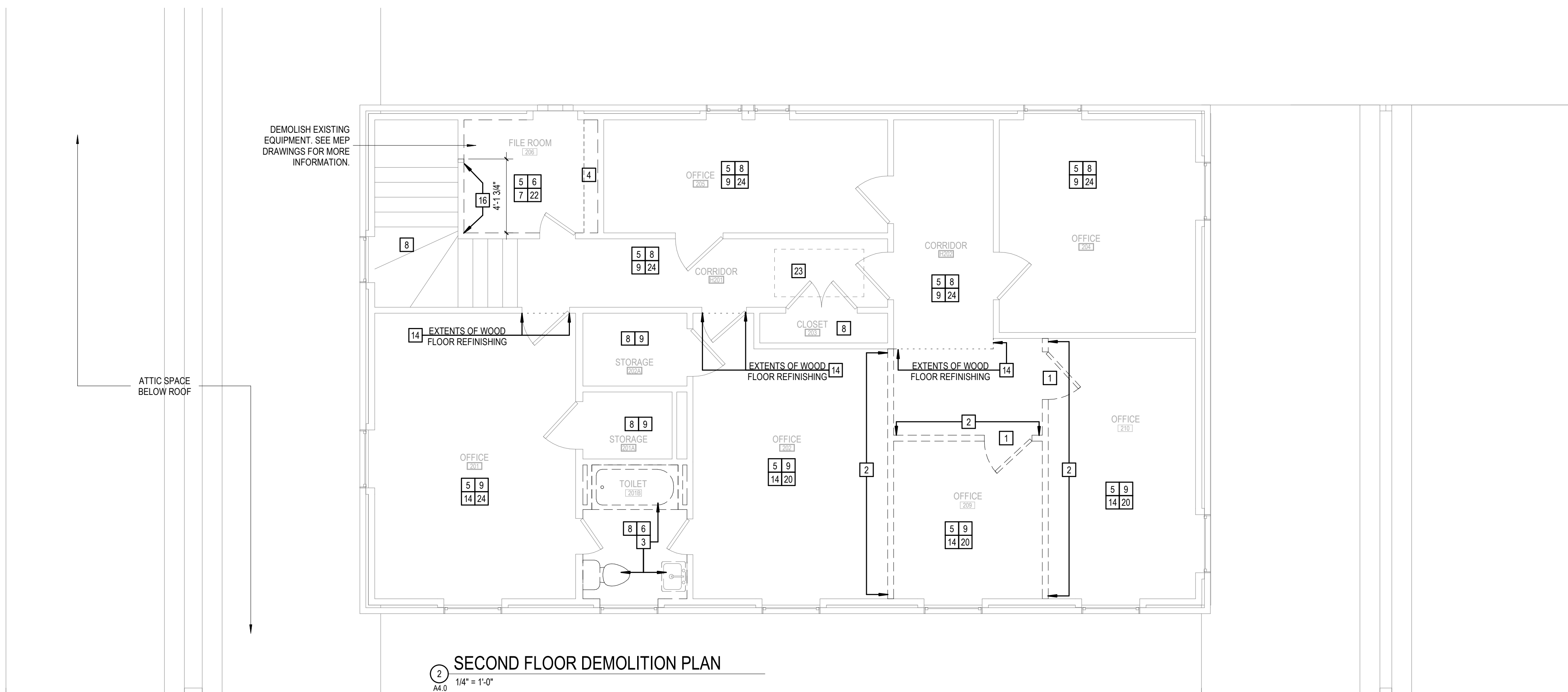
EXIT SIGN LOCATION Ex = EXISTING  
N = NEW

EMERGENCY EXIT LIGHT. SEE ELECTRICAL DWGS.





1 FIRST FLOOR DEMOLITION PLAN  
A&G 1/4" = 1'-0"



2 SECOND FLOOR DEMOLITION PLAN  
A&G 1/4" = 1'-0"

## GENERAL DEMOLITION NOTES:

1. LIFE-SAFETY EGRESS FROM EXISTING AREAS EITHER RENOVATED OR HAVING THE EGRESS AFFECTED BY THE RENOVATION SHALL BE MAINTAINED CLEAR OF OBSTRUCTION AND IMPEDEMENT TO EXITING AND SHALL BE SUPPLANTED TO PROVIDE REQUIRED LIFE-SAFETY COVERAGE AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
2. INTERIOR FINISHES, MATERIALS, FURNITURE, EQUIPMENT, ETC IN BUILDINGS TO REMAIN SHALL BE PROTECTED AS NECESSARY TO ELIMINATE POSSIBILITY OF MOISTURE, DUST, DEBRIS DAMAGE, COVER AND PROTECT AS NECESSARY.
3. ALL DEMOLITION SHALL BE PERFORMED WITH THE "DUE CARE AND DILIGENCE". ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A DIFFERENT LOCATION FROM THAT INDICATED, CHANGE DIRECTION FROM FLOOR-TO-FLOOR, ETC., OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT BEFORE REMOVAL OR DISTURBANCE.
4. ANY DAMAGE TO EXISTING CONDITIONS CAUSED BY DEMOLITION AND/OR NEW WORK SHALL BE REPAIRED AS DETAILED, OR WHERE NO DETAIL IS SHOWN RESTORED BACK TO ITS ORIGINAL FINISHED CONDITION, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
5. DIMENSIONS SHOWN ON THE RENOVATION PLANS ARE SHOWN AS A REFERENCE FOR THE CONTRACTORS AND SHALL BE CONSIDERED +/-, IF EXACT DIMENSIONS ARE REQUIRED, FIELD MEASUREMENTS SHALL BE TAKEN BY EACH CONTRACTOR.
6. ALL HOLES MADE IN EXISTING WALLS OR FLOORS OR MADE BY THE REMOVAL OF ANY EQUIPMENT OR FIXTURES, SHALL BE PATCHED TO MATCH EXISTING INSTALL. NEW MATERIAL FLUSH WITH EXISTING ON BOTH SIDES.
7. EXISTING WALLS, FLOORS, CEILINGS, ETC. SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED.
8. NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT ARE DIFFERENT THAN THOSE REPRESENTED BY THESE DOCUMENTS.
9. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DEMOLITION OF SPECIFIC ITEMS AND EQUIPMENT RELATED TO RESPECTIVE TRADES AS NECESSARY.
10. ALL WORK SHALL CONFORM WITH ALL LOCAL AND FEDERAL (INCLUDING ADA) AGENCIES HAVING JURISDICTION.

## KEYED DEMOLITION NOTES [ # ]

- |    |                                                                                                                                                                                                                                                                        |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | DEMOLISH EXISTING DOOR AND FRAME COMPLETE. PROTECT & SALVAGE DOOR SLAB FOR RE-USE OR RETURN TO OWNER.                                                                                                                                                                  |
| 2  | DEMOLISH EXISTING WALL AND STUDS COMPLETE. PROTECT & SALVAGE CROWN & BASE FOR RE-USE IN PROJECT.                                                                                                                                                                       |
| 3  | REMOVE PLUMBING FIXTURE COMPLETE. SEE PLUMBING DWGS FOR FULL SCOPE OF DEMOLITION.                                                                                                                                                                                      |
| 4  | REMOVE CASEWORK AND SHELVING.                                                                                                                                                                                                                                          |
| 5  | REMOVE ANY FLAKING PAINT ON WALLS, CEILINGS, BASE & TRIM. PATCH, PREP & SAND ALL OF THE ABOVE TO BE SMOOTH. PREP TO RECEIVE PAINT AS SCHEDULED.                                                                                                                        |
| 6  | ALONG ENTIRE INTERIOR PERIMETER OF ROOM. DEMOLISH EXISTING SHEETROCK, PLASTER & ANY WALL COVERING TO EXISTING STUDS. CLEAN, PREP AND REPAIR/REPLACE ANY DAMAGE CAUSED BY MOISTURE, MOLD, AND/OR TERMITES.                                                              |
| 7  | DEMOLISH EXISTING CEILING TO JOISTS. JOISTS TO REMAIN. PREP TO RECEIVE NEW GYPSUM BOARD CEILING.                                                                                                                                                                       |
| 8  | DEMOLISH EXISTING FLOOR FINISH. PREP FLOOR TO RECEIVE NEW FLOOR FINISH AS SCHEDULED.                                                                                                                                                                                   |
| 9  | REMOVE ANY CLASSROOM BOARDS, PROJECTORS, SCREENS, OR CONTROLS.                                                                                                                                                                                                         |
| 10 | DEMOLISH EXISTING BASE CABINETS, COUNTERTOPS & WALL CABINETS COMPLETE. PATCH, PREP & SAND WALLS SMOOTH FOR PAINT AS SCHEDULED.                                                                                                                                         |
| 11 | DEMOLISH EXISTING DOOR SLAB ONLY. PROTECT & MAINTAIN DOOR TRIM WHERE FEASIBLE WHILE MODIFYING DOOR OPENING TO BE LARGER AS SCHEDULED. PATCH FRAME AND TRIM WITH SALVAGED MATERIAL FROM PROJECT SCOPE.                                                                  |
| 12 | DEMOLISH EXISTING DOOR AND FRAME COMPLETE. PROTECT & SALVAGE DOOR SLAB FOR RE-USE OR RETURN TO OWNER. PROTECT & SALVAGE DOOR FRAME & TRIM FOR RE-USE.                                                                                                                  |
| 13 | DEMOLISH & DISCARD EXISTING DOOR SLAB ONLY. PROTECT & MAINTAIN DOOR TRIM. REPLACE DOOR SLAB WITH SALVAGED DOOR FROM PROJECT SCOPE. PATCH & PREP EXISTING FRAME TO RECEIVE NEW DOOR HARDWARE AS SCHEDULED.                                                              |
| 14 | DEMOLISH EXISTING FLOOR FINISH TO EXISTING HARDWOODS. PROTECT HARDWOODS & PREP TO BE REFINISHED AS SCHEDULED.                                                                                                                                                          |
| 15 | DEMOLISH EXISTING SHEETROCK AND/OR PLASTER SOFFIT (EXTENT SHOWN BY HATCH) COMPLETE. PATCH, PREP & SAND SMOOTH DAMAGED CEILING & WALLS TO RECEIVE PAINT AS SCHEDULED.                                                                                                   |
| 16 | DEMOLISH INTERIOR LAYER OF SHEETROCK AND/OR PLASTER AND STUDS ONLY AS NEEDED TO FURR OUT WALL BEHIND NEW WATER CLOSET. SEE PLUMBING DWGS.                                                                                                                              |
| 17 | MODIFY EXISTING ACT GRID AS NECESSARY FOR RENOVATION SCOPE. PROTECT & SALVAGE TILES AND GRID FOR RE-USE.                                                                                                                                                               |
| 18 | DEMOLISH WALL CONSTRUCTION AS NECESSARY FOR NEW DOOR OPENING AS SCHEDULED.                                                                                                                                                                                             |
| 19 | DEMOLISH FAUX BRICK WALL COVERING. PATCH & REPAIR WALL. SAND SMOOTH & PREP TO RECEIVE PAINT AS SCHEDULED.                                                                                                                                                              |
| 20 | DEMOLISH & DISCARD EXISTING WOOD BASE IN ENTIRE ROOM. PATCH WALL BEHIND BASE & EXTEND TO FLOOR WITH SHEETROCK WHERE REQUIRED. TAPE, MUD & SAND SMOOTH ANY JOINTS. PREP TO RECEIVE NEW PAINTED WOOD BASE & WALL PAINT AS SCHEDULED.                                     |
| 21 | DEMOLISH & DISCARD EXISTING RUBBER BASE. PATCH & PREP WALL TO RECEIVE NEW PAINTED WOOD BASE AS SCHEDULED.                                                                                                                                                              |
| 22 | DEMOLISH EXISTING FLOOR FINISH DOWN TO SUBFLOOR. LEVEL FLOORING AND PREP TO RECEIVE HARD TILE FLOORING AS SCHEDULED.                                                                                                                                                   |
| 23 | DEMOLISH EXISTING WOODEN ATTIC PULL-DOWN STAIR. PROTECT DOOR & OPENING. PREP TO RECEIVE NEW LADDER.                                                                                                                                                                    |
| 24 | WHERE WALL REGISTERS IN BASE ARE REMOVED, DEMOLISHED TALLER WOOD BASE SURROUND. PATCH WALL BEHIND BASE & EXTEND TO FLOOR WITH SHEETROCK WHERE REQUIRED. TAPE, MUD & SAND SMOOTH ANY JOINTS. PREP TO RECEIVE NEW PATCHED & PAINTED WOOD BASE & WALL PAINT AS SCHEDULED. |

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C. Work on the 1st floor that supports the Work on the 2nd floor functionality (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.



| number | item | date |
|--------|------|------|
|        |      |      |





## GENERAL NOTES

1. NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT ARE CONTRARY TO THOSE REPRESENTED WITHIN THE DRAWINGS.

2. NEW WORK SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED AND DETAILED.

3. ALL NEW VERTICAL AND HORIZONTAL DUCTS, PIPES, CONDUITS, ETC. (WHETHER SHOWN OR NOT) IN FINISHED ROOMS OR AREAS THROUGHOUT BUILDING, NOT CONCEALED, SHALL BE FURRED IN, AND FINISHED TO MATCH ROOM FINISH.

4. ALL NEW PARTITIONS, UNLESS OTHERWISE SHOWN OR DETAILED, SHALL BE METAL STUDS OF THICKNESS TO ADEQUATELY COVER PIPING, CONDUITS, ETC.

5. PROVIDE AN EDGE STRIP, AS DETAILED, UNDER ALL DOORS WHERE NEW OR EXISTING FINISHES AND ADJACENT FLOOR ARE AT DIFFERENT LEVELS AND WHERE ADJACENT FLOOR FINISHES ARE OF DIFFERENT MATERIALS. SEE DETAIL 610.0.

6. EXISTING DOORS, WHICH SWING INTO ROOMS WHERE NEW FLOOR FINISH IS ABOVE ADJACENT FLOORS, SHALL BE CUT OFF AT BOTTOM TO CLEAR NEW FINISHED FLOOR. DOOR BOTTOM SHALL BE SEALED AND FINISHED TO MATCH EXISTING FINISH.

7. OFFSET ALL DOORS 6" FROM ADJACENT WALLS UNLESS OTHERWISE NOTED.

8. NEW TILE FINISHES APPLIED TO EXISTING WALLS AND PARTITIONS SHALL BE APPLIED DIRECTLY TO PLASTER OR GYP. BD. WALLS BY THE THIN SET METHOD. NEW PARTITIONS AND CLOSURES OF OPENINGS IN ROOMS HAVING TILE BASE AND/OR TILE WAINSCOT SHALL BE FINISHED WITH TILE TO MATCH EXISTING. WHEN TILE CANNOT BE MATCHED, FURNISH ARCHITECT WITH SAMPLES OF EXISTING TILE TO PERMIT SELECTION OF SUBSTITUTE TILE.

9. PROVIDE ACCESS PANELS, 24" X 24" OR OF SIZES REQUIRED, WHERE PLUMBING AND HEATING VALVES, WATER SWITCHES, OXYGEN PRESSURE SWITCHES, VENTILATION SPLITTER DAMPERS, ETC. ARE SHOWN ON PLUMBING, HEATING, AND VENTILATION DRAWINGS. SUCH ACCESS PANELS TO BE INSTALLED IN THE FOLLOWING:  
(A) SUSPENDED PLASTER OR GYPSUM WALLBOARD CEILINGS  
(B) METAL STUD OR MASONRY PARTITIONS

10. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC. ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE FINISHED TO MATCH ADJOINING SURFACES OR AS INDICATED ON ROOM FINISH SCHEDULE.

11. WALL ASSEMBLIES SHALL BE MAINTAINED AT ALL RECESSED FIRE EXTINGUISHER CABINETS AND ALL RECESSED EQUIPMENT.

12. WHERE PAINT IS CALLED FOR ON WALLS IN RENOVATED ROOMS IN THE EXISTING BUILDING, ALL WALLS ARE TO BE PAINTED.

13. WHERE NO PAINT IS INDICATED IN AREAS WHERE PATCHING IS REQUIRED, NEW WORK IS TO BE PAINTED TO MATCH EXISTING ADJOINING SURFACES.

14. WHERE THE ROOM FINISH SCHEDULE CALLS FOR A NEW CEILING, THE EXISTING CEILING AND SUSPENSION SYSTEM IS TO BE COMPLETELY REMOVED.

15. PROVIDE FIRE EXTINGUISHING CABINETS OF THE TYPE SPECIFIED. REFER TO FLOOR PLANS (A2.0) FOR LOCATIONS.

16. WHERE THE ROOM FINISH SCHEDULE FOR EXISTING CONSTRUCTION CALLS FOR A NEW MATERIAL, THE ENTIRE ROOM IS TO RECEIVE THE NEW MATERIAL. WHERE THE ROOM FINISH SCHEDULE CALLS FOR BOTH PATCHING AND A NEW MATERIAL, THE NEW MATERIAL IS LIMITED TO AREAS OF NEW CONSTRUCTION WITHIN THAT ROOM ONLY.

17. SUPPLY BLOCKING AT ALL WALL HUNG EQUIPMENT (I.E., GRAB BARS, CASEWORK, ETC.)

18. WHERE A NEW DOOR, VIEW WINDOW OR OPENING IS CUT THROUGH AN EXISTING MASONRY WALL, PROVIDE A LOOSE LINTEL AS REQUIRED ON THE LOOSE LINTEL SCHEDULE INDICATED ON THE STRUCTURAL DRAWINGS.

19. ALL DIMENSIONS SHOWN IN RENOVATED AREAS ARE TO BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH WORK.

20. IN ALL ROOMS BELOW AREAS WHICH RECEIVE UNDER FLOOR SERVICES, REMOVE A PORTION OF EXISTING CEILING AS REQUIRED. PATCH FINISHES TO MATCH EXISTING OR AS INDICATED ON ROOM FINISH SCHEDULE.

21. WHERE THE ROOM FINISH SCHEDULE CALLS FOR A ROOM TO BE PAINTED AND THAT ROOM CONTAINS WALL PAPER AND/OR VINYL, CHAIR RAILS, THESE SHALL BE COMPLETELY REMOVED FROM WALLS AND ANY HOLES OR BUMPS SHALL BE FILLED OR SANDED SMOOTH BEFORE APPLYING NEW COAT OF PAINT.

22. ALL SHAFT PARTITIONS EXTEND FROM FLOOR SLAB TO UNDERSIDE OF SLAB ABOVE. EXPOSED BEAMS WITHIN SHAFTS ARE TO BE FIREPROOFED WITH 2-HOUR GYP. BD. ENCLOSURE.

23. THE FIRE RATINGS OF ALL FIRE RATED WALLS SHALL BE STENCILED ABOVE CEILINGS, EACH SIDE OF WALL, BOTH SIDES OF CORRIDORS AND AS REQ'D BY IBC.

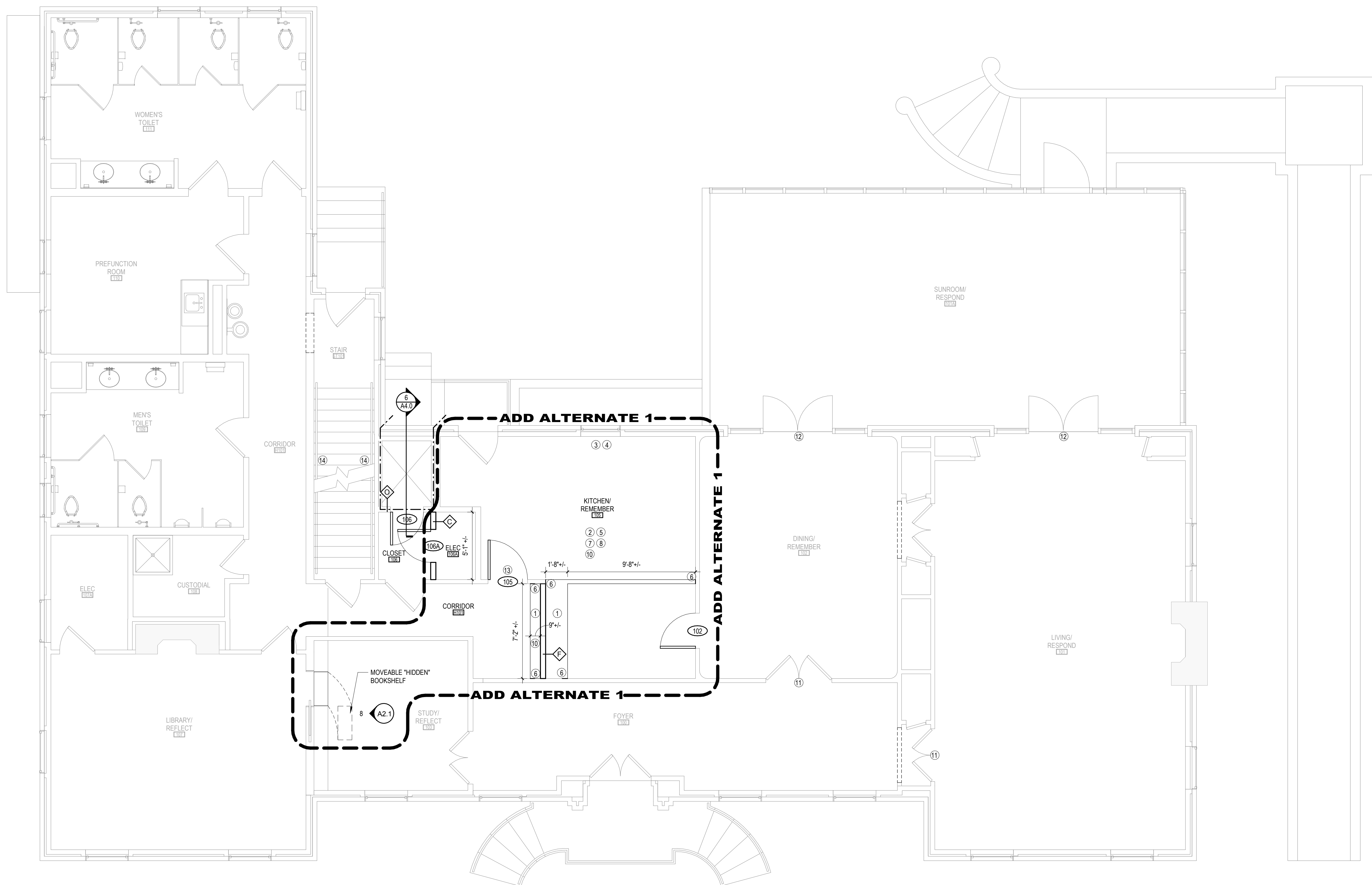
## FLOOR AND WALL PREPARATION NOTES

1. PREPARE EXISTING FLOORS FOR INSTALLATION OF NEW FLOOR FINISHES AS SCHEDULED & PER MANUFACTURER'S RECOMMENDATIONS.
2. PREPARE EXISTING WALLS FOR INSTALLATION OF NEW WALL FINISHES PER MANUFACTURER'S RECOMMENDATIONS. WHERE A NEW WALL ABUTS AN EXISTING WALL, FLUSH FINISH FOR CONCEALED AND CONTINUOUS FLUSH APPEARANCE. FILL ALL VOIDS, CRACKS, PEELS, SPAWLS, FLAKES, ETC. WITH PLASTER AS NECESSARY. SEE FINISH SCHEDULE FOR FINISHES. PATCH, REPAIR, & SAND SMOOTH EXISTING WALLS TO REMAIN. PREPARE TO RECEIVE NEW FINISH AS SCHEDULED.
3. SCRAPE, CLEAN, AND PAINT EXISTING WINDOW FRAMES.
4. WINDOW BLINDS/COVERING SEE SPECIFICATION.
5. PATCH, REPAIR, AND PAINT ANY EXISTING WOOD BASE, CHAIR RAIL, SHELVING AND CROWN MOULDING. PATCH/ADD NEW TRIM, OF ANY OF THE ABOVE, TO MATCH EXISTING TO CREATE UNIFORM FINISH AROUND ENTIRE ROOM. IF RECLAIMED TRIM PIECES FROM DEMOLITION SCOPE ARE NOT SUFFICIENT, MATCH EXISTING CUSTOM PROFILES. PAINT AS SCHEDULED.
6. PATCH, REPAIR & PREP WALL WHERE DEMOLITION OCCURED. MATCH EXISTING WALL CONSTRUCTION. PAINT AS SCHEDULED.
7. INSTALL CROWN MOULDING WITH RECLAIMED CROWN FROM DEMOLITION SCOPE. IF RECLAIMED PIECES FROM DEMOLITION SCOPE ARE NOT SUFFICIENT, INSTALL NEW & MATCH EXISTING CUSTOM PROFILES. PAINT AS SCHEDULED.
8. INSTALL NEW WOOD BASE WITH PROFILES TO MATCH EXISTING. PAINT AS SCHEDULED.
9. CLEAN EXISTING HARDWOODS OF ANY ADHESIVES BUT NOT SCRATCHING THE WOOD. SAND & BUFF ENTIRE FLOOR TO BE REFINISHED. PREP & REFINISH FLOOR TO ITS ORIGINAL CONDITION WITH NEW STAIN & FINISH AS SCHEDULED. PATCH ANY VOIDS IN FLOORING WITH MATCHING WOOD SPECIES & COLOR.
10. INSTALL NEW FLOOR FINISH AS SCHEDULED TO MATCH EXISTING CORRIDOR & FOYER FLOORING. ENSURE ANY TRANSITIONS ARE LEVEL, MATCHING IN FINISH, ADA COMPLIANT & ALLOW FOR COMPLETE & PROPER USE OF ALL DOORS.
11. SHAVE BOTTOM OF EXISTING DOOR, AS LITTLE AS POSSIBLE, TO ALLOW PROPER CLOSURE AND PASSING OVER EXISTING WOOD THRESHOLD.
12. INSTALL GASKETING AROUND DOORS TO CREATE A TIGHT SEAL AND SOUND BARRIER WHEN DOORS ARE CLOSED.
13. PATCH WIDENED DOOR FRAME WITH SALVAGED MATERIAL FROM DEMOLITION SCOPE. INSTALL NEW paneled door to match existing profiles & paneling. APPLY FINISHES AS SCHEDULED.
14. SAND & PREP EXISTING HANDRAILS TO RECEIVE NEW STAIN & FINISH AS SCHEDULED.
15. NEW HARDWOOD AT LOCATION OF REMOVED WALL, TIGHT IN FOR CONSISTANT JOINT LAYOUT. STAIN TO MATCH ADJACENT EXISTING FLOORING AS SCHEDULED.

PATCH AND REFINISH EXISTING HARDWOOD FLOORING.

### REQUIRED WORK SEQUENCE:

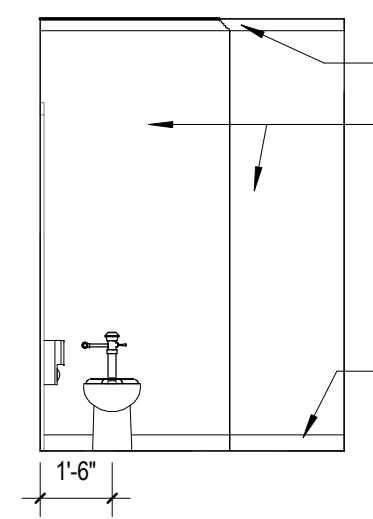
- A. Construct Work in stages during construction period:
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  2. Stage 2: (1st Floor alterations (if alternate is accepted)). Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.



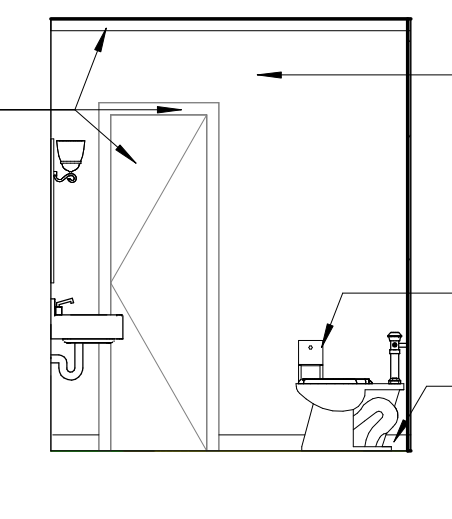
FIRST FLOOR RENOVATION PLAN  
A4.0 1/4" = 1'-0"

## ACCESSORIES LEGEND

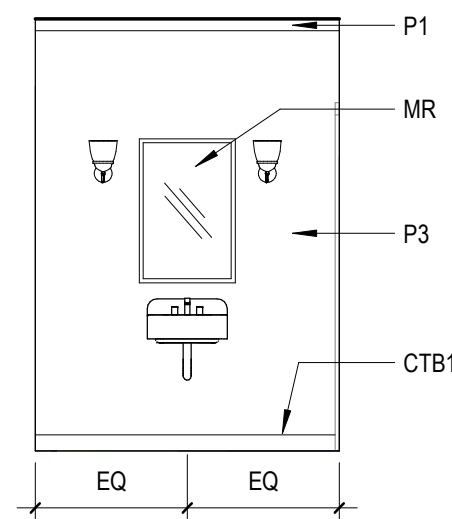
| ABBREVIATION | ITEM                    | MANUFACTURER | COLOR/STYLE        |
|--------------|-------------------------|--------------|--------------------|
| MR           | MIRROR                  | 36" x 66"    | BLACK FRAMED       |
| PTD          | PAPER TOWEL DISPENSER   | BOBRICK      | B-43949            |
| SD           | SOAP DISPENSER          | GOJO         | LTX-12, 1919-04    |
| TTD          | TOILET TISSUE DISPENSER | CASCADES     | TANDEM 4259, BLACK |
| SND          | SANITARY NAPKIN RECEPT  | BOBRICK      | B270               |
| GB18         | 18" GRAB BAR            | BOBRICK      |                    |
| GB42         | 42" GRAB BAR            | BOBRICK      |                    |
| GB36         | 36" GRAB BAR            | BOBRICK      |                    |



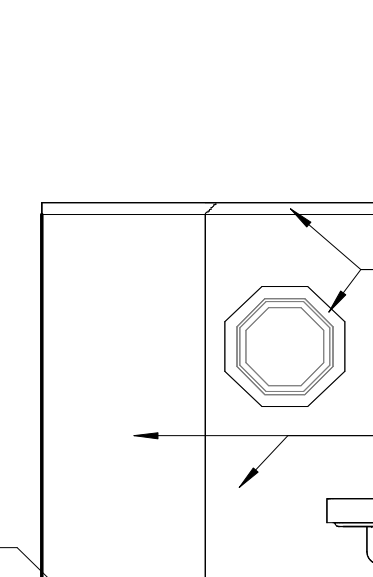
TOILET WEST  
A2.1 1/4" = 1'-0"



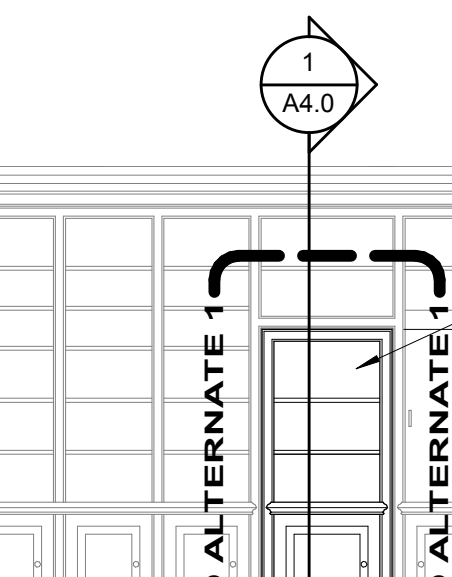
TOILET SOUTH  
A2.1 1/4" = 1'-0"



TOILET EAST  
A2.1 1/4" = 1'-0"



TOILET NORTH  
A2.1 1/4" = 1'-0"

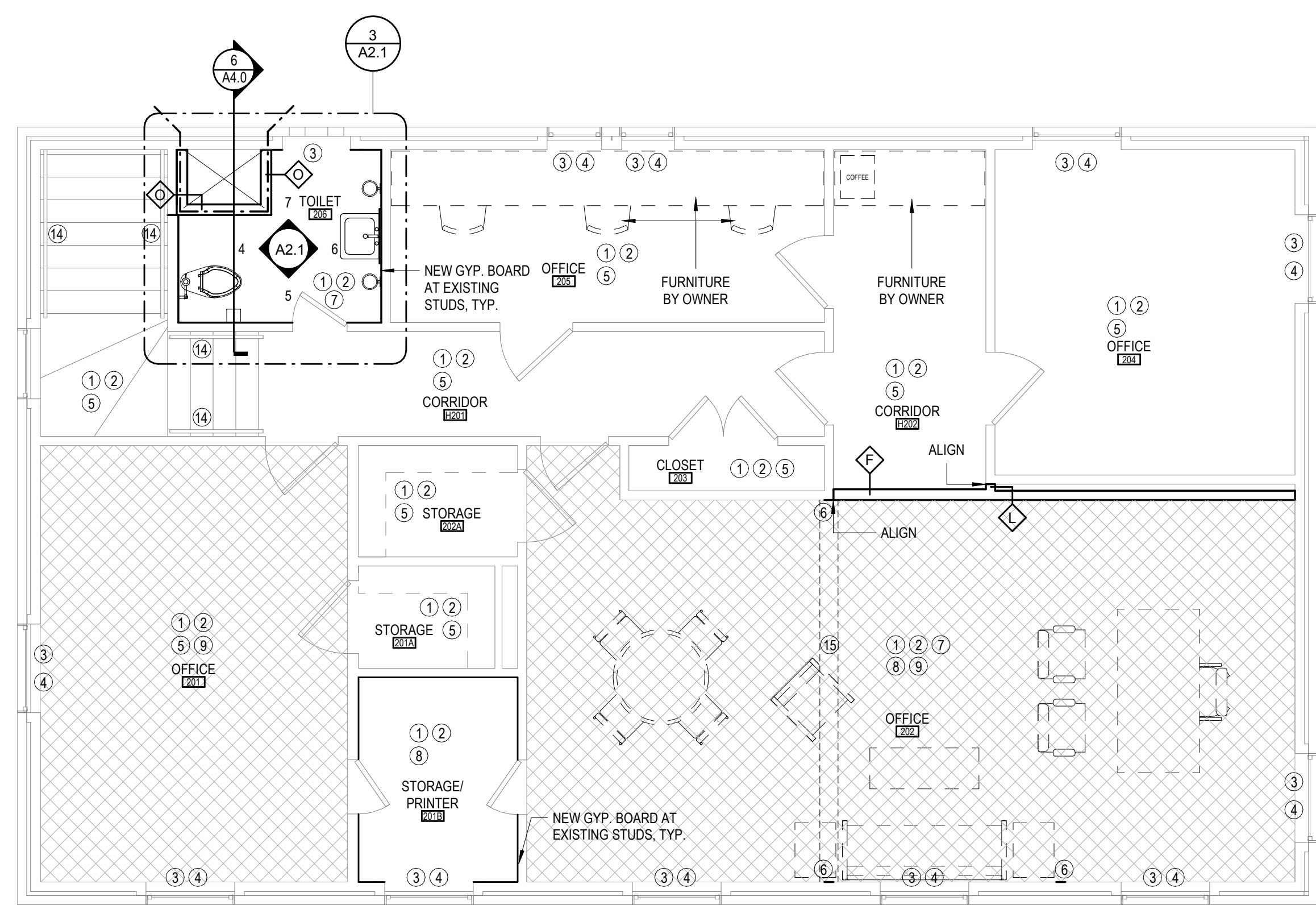


STUDY/REFLECT BOOKSHELF  
A2.1 1/4" = 1'-0"

STAINED WOOD BOOKSHELF. FINISH COLOR, ALL PROFILES & ANY HARDWARE TO BE METICULOUSLY MATCHED TO ADJACENT EXISTING MILLWORK. VERIFY ALL SELECTIONS WITH ARCHITECT & OWNER BEFORE PROCEEDING WITH FABRICATION. GAP BETWEEN NEW BOOKSHELF & EXISTING CASEWORK SHOULD BE AS MINIMAL AS POSSIBLE. VERIFY ALL DIMENSIONS IN FIELD.

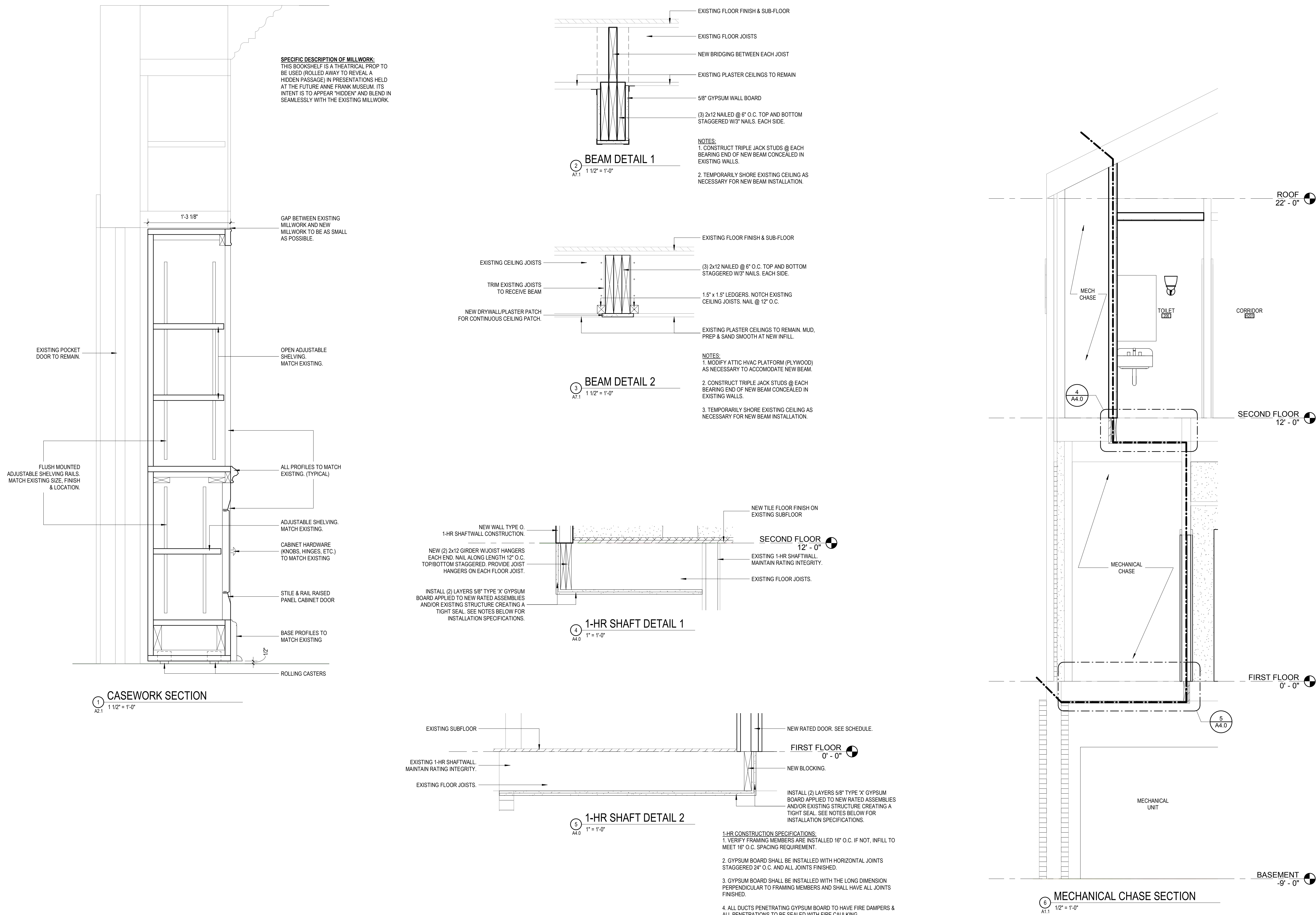
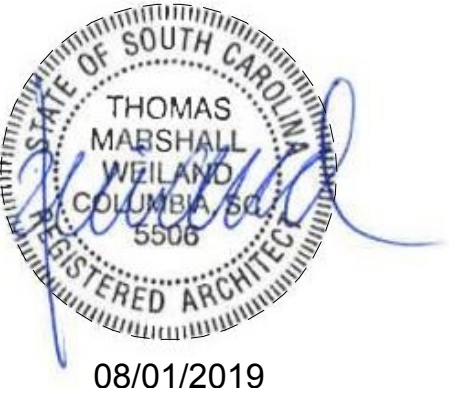
BOOKSHELF TO BE ON SMOOTH GLIDING CASTERS. TAKE CARE THAT HARDWARE SELECTION WILL NOT DAMAGE EXISTING HARDWOOD FLOORING WITH FREQUENT MOVEMENT.

**SPECIFIC DESCRIPTION OF MILLWORK:**  
THIS BOOKSHELF IS A THEATRICAL PROP TO BE USED (ROLLED AWAY TO REVEAL A HIDDEN PASSAGE) IN PRESENTATIONS HELD AT THE FUTURE ANNE FRANK MUSEUM. ITS INTENT IS TO APPEAR "HIDDEN" AND BLEND IN SEAMLESSLY WITH THE EXISTING MILLWORK.



SECOND FLOOR RENOVATION PLAN  
A4.0 1/4" = 1'-0"

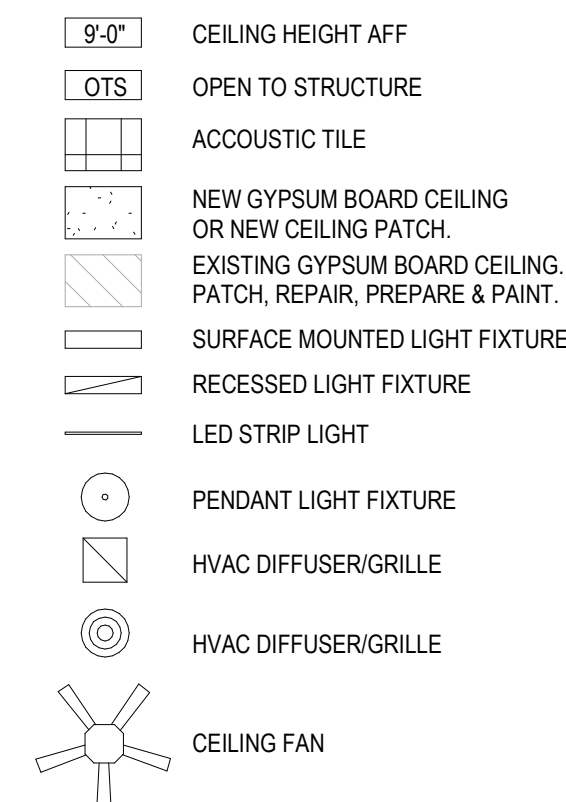






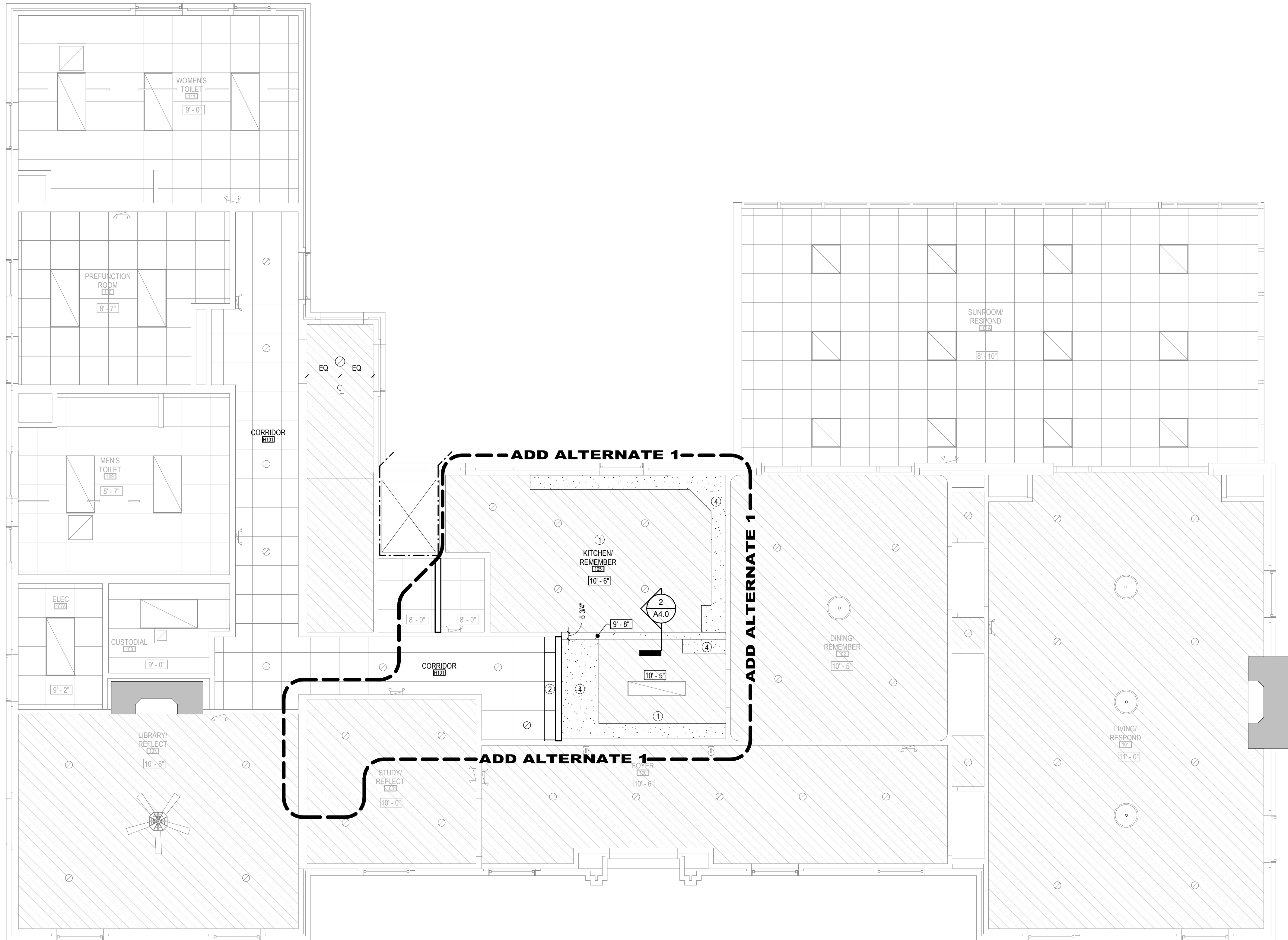


SYMBOL LEGEND

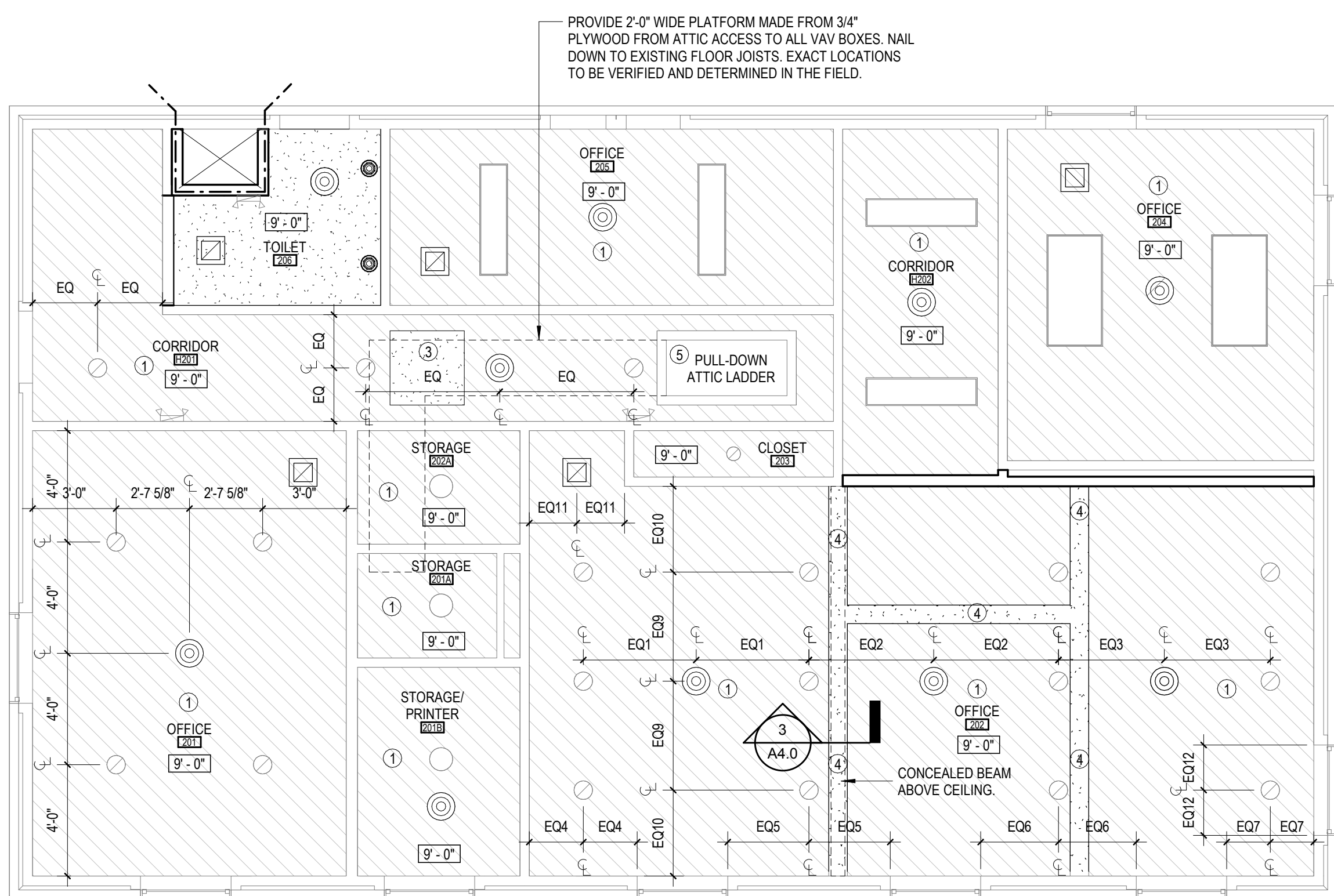


CEILING NOTES

- CEILING TO BE MINIMALLY DAMAGED BY ELECTRICAL AND MECHANICAL WORK. PATCH, REPAIR AND PAINT CEILINGS TO REMAIN TO MATCH EXISTING.
- EXTEND ACT GRID TO BE CONTINUOUS. MATCH EXISTING GRID & TILE AS SPECIFIED.
- PATCH CEILING WHERE EXISTING HVAC DEVICES WERE DEMOLISHED. SAND TO BE SMOOTH, FLUSH AND CONTINUOUS TO EXISTING CEILING.
- PATCH CEILING WHERE EXISTING BULKHEAD AND/OR WALL WAS DEMOLISHED. SAND TO BE SMOOTH, FLUSH AND CONTINUOUS TO EXISTING CEILING.
- INSTALL NEW ALUMINUM PULL-DOWN ATTIC LADDER. MATCH EXISTING SIZE.



1 FIRST FLOOR REFLECTED CEILING PLAN  
A4.0 1/4" = 1'-0"



3 SECOND FLOOR REFLECTED CEILING PLAN  
A4.0 1/4" = 1'-0"

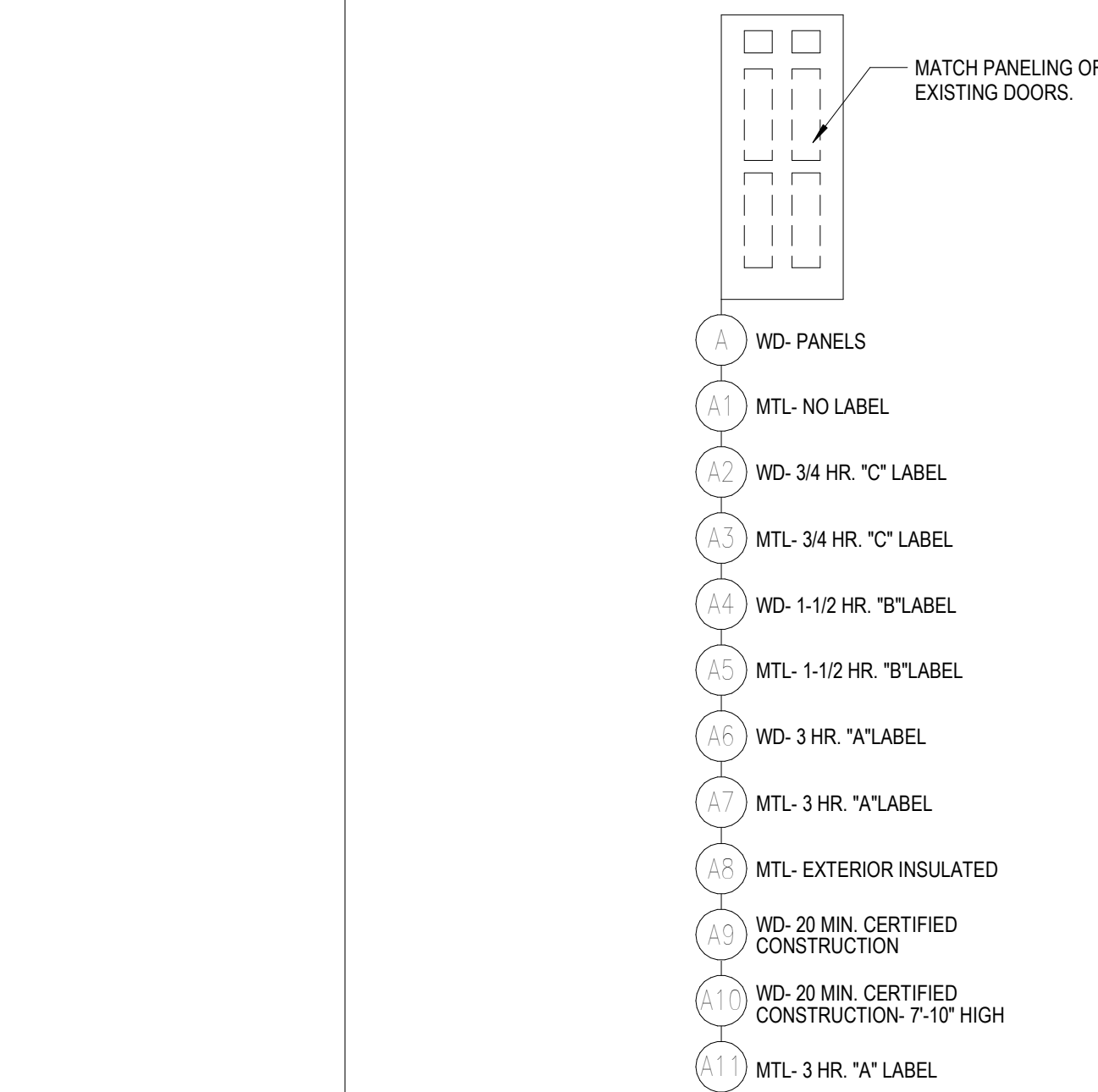
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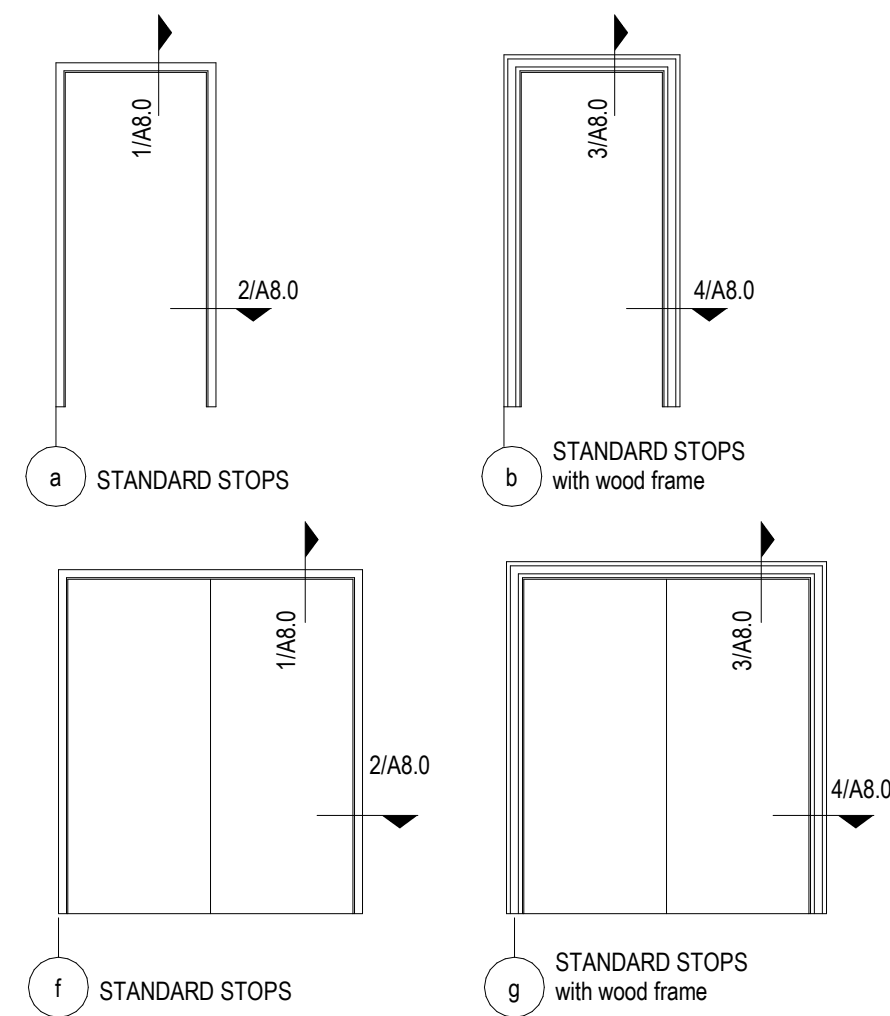


| number | item | date |
|--------|------|------|
|        |      |      |



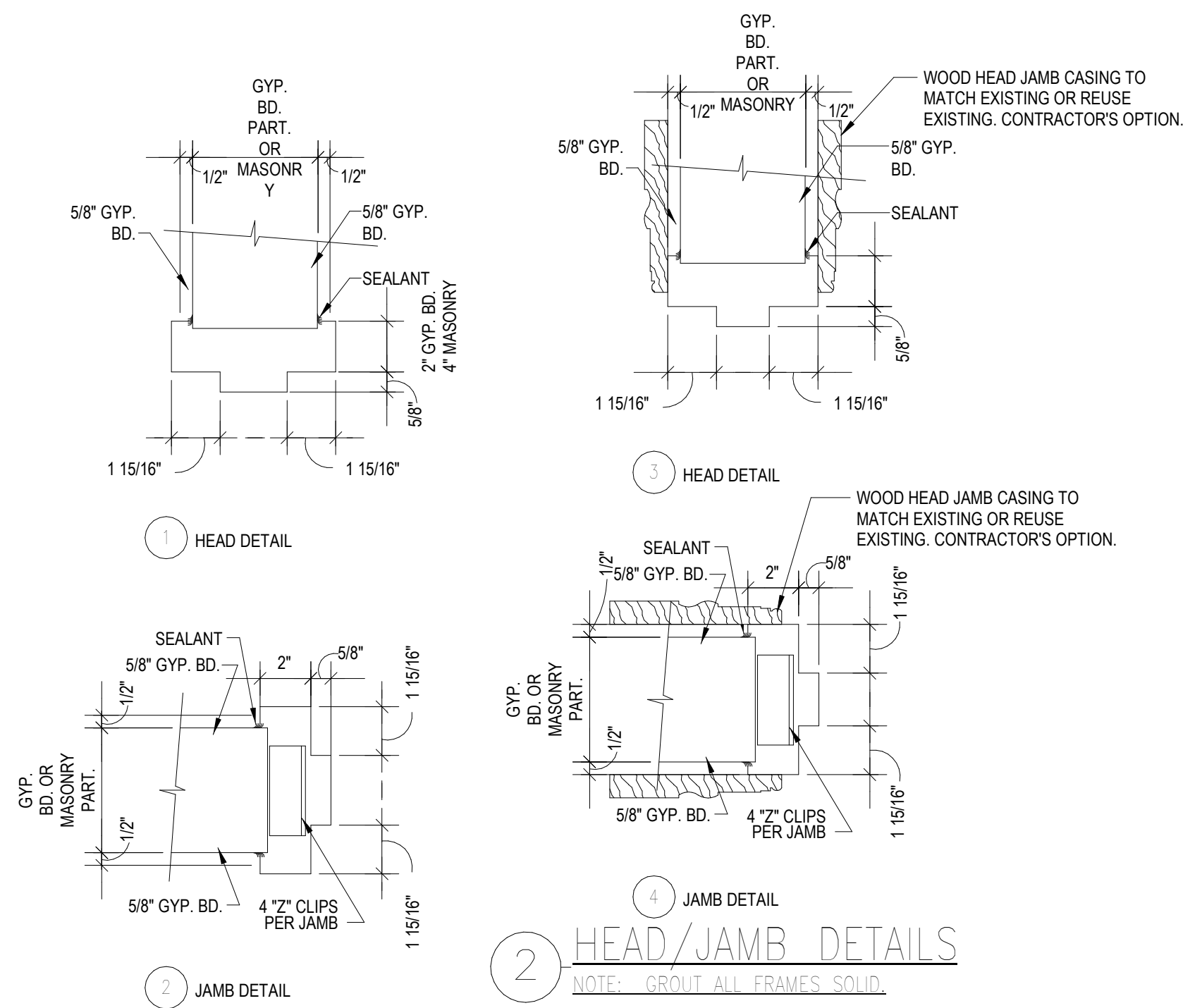
### DOOR TYPES

- NOTES:
- 1. ASTRAGAL REQUIRED AT DOUBLE EGRESS DOORS
  - 2. ALL EXTERIOR DOORS TO BE HOT DIPPED GALVANIZED DOOR AND FRAME

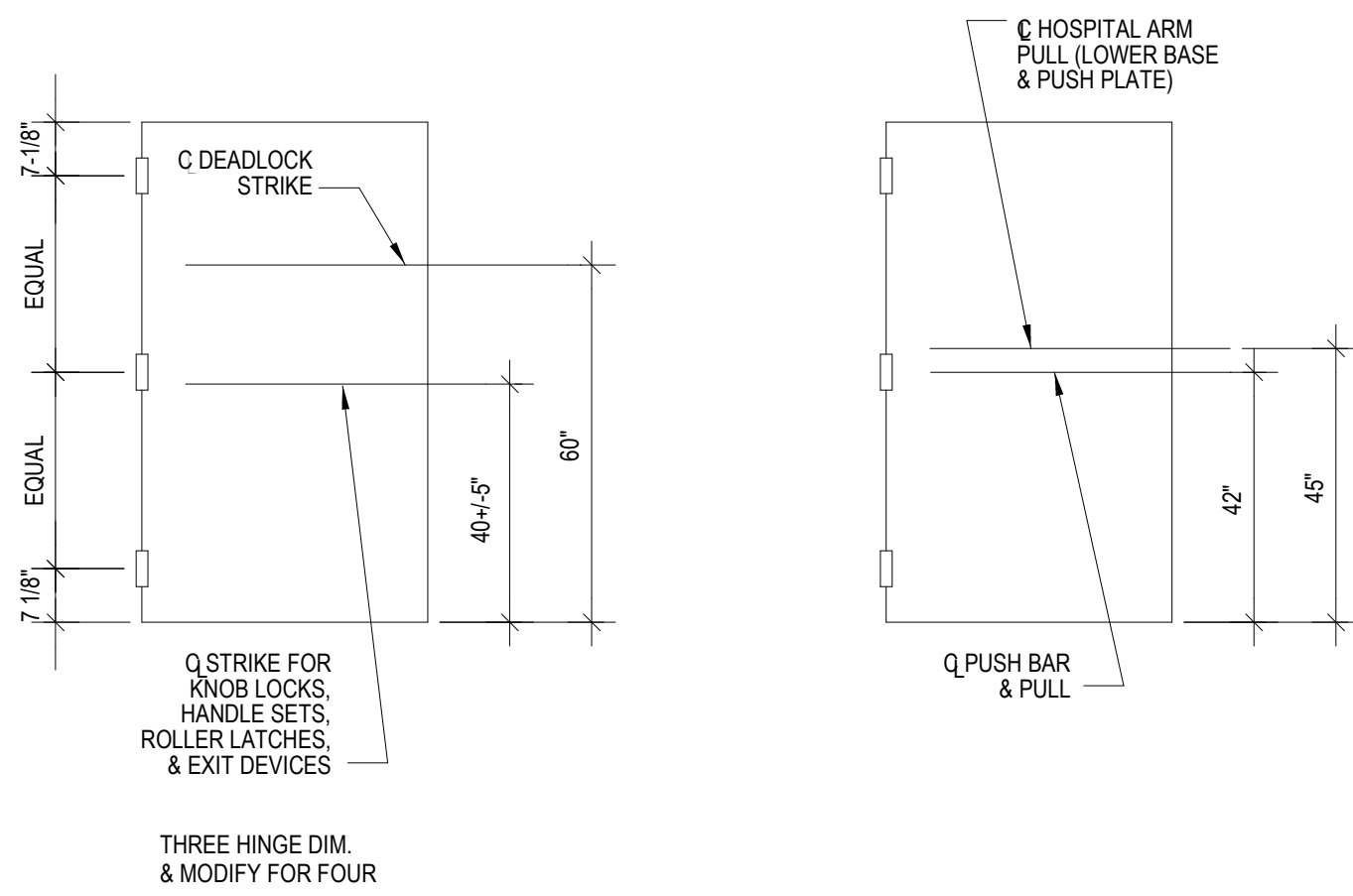


### FRAME TYPES

- NOTES:
- 1. LABELED DOORS REQUIRE LABELED FRAMES
  - 2. INSULATED GLASS AT EXTERIOR LOCATIONS



### HEAD/JAMB DETAILS



### DOOR HARDWARE LOCATIONS

### FINISH SCHEDULE

| ROOM NUMBER  | ROOM NAME             | FLOOR FINISH | ROOM TRIM FLOOR BASE | FINISH      | WALLS ACCENT       | CEILING FINISH | REMARKS                                                                 |
|--------------|-----------------------|--------------|----------------------|-------------|--------------------|----------------|-------------------------------------------------------------------------|
| BASEMENT     |                       |              |                      |             |                    |                |                                                                         |
| 001          | STAGING               | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 002          | JAN                   | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 003          | MECHANICAL/ELECTRICAL | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 004          | MECHANICAL            | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| H001         | CORRIDOR              | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| FIRST FLOOR  |                       |              |                      |             |                    |                |                                                                         |
| 100          | FOYER                 | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 101          | LIVING/RESPOND        | EXIST        | EXIST - P4           | EXIST       |                    | EXIST          |                                                                         |
| 101A         | SUNROOM/RESPOND       | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 102          | DINING/REMEMBER       | EXIST        | EXIST - P4           | P5          | P4 AT WAINSCOT     | EXIST          |                                                                         |
| 103          | STUDY/REFLECT         | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 105          | KITCHEN/REMEMBER      | EXIST        | WDB1 - P1            | P1          | P1 AT CROWN        | ACT1           | USE SALVAGED BASE & CROWN FROM DEMOLITION SCOPE.                        |
| 106          | CLOSET                | EXIST        | RB1                  | P1          |                    | ACT1           |                                                                         |
| 106A         | ELEC                  | EXIST        | RB1                  | P1          |                    | ACT1           |                                                                         |
| 107          | LIBRARY/REFLECT       | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 107A         | ELEC                  | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 108          | CUSTODIAL             | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 109          | MEN'S TOILET          | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 110          | PREFUNCTION ROOM      | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| 111          | WOMEN'S TOILET        | EXIST        | EXIST                | EXIST       |                    | EXIST          |                                                                         |
| H101         | CORRIDOR              | EXIST        | EXIST                | P2          |                    | ACT1           |                                                                         |
| STAIR        | STAIR                 | CPT1         | EXIST - P1           | P2          | STAIN AT HANDRAILS | P1             | HANDRAIL STAIN TO MATCH REFINISHED HARDWOODS. COLOR BY ARCHITECT/OWNER. |
| SECOND FLOOR |                       |              |                      |             |                    |                |                                                                         |
| 201          | OFFICE                | CPT1         | EXIST - P1           | P2          |                    | P1             |                                                                         |
| 201A         | STORAGE               | CPT1         | EXIST - P1           | P2          |                    | P1             |                                                                         |
| 201B         | STORAGE/PRINTER       | CPT1         | RB1                  | P2          |                    | P1             |                                                                         |
| 202          | OFFICE                | WDB1 - P1    | P2                   | P1 AT CROWN |                    | P1             | USE SALVAGED BASE & CROWN FROM DEMOLITION SCOPE.                        |
| 202A         | STORAGE               | CPT1         | EXIST - P1           | P2          |                    | P1             |                                                                         |
| 203          | CLOSET                | CPT1         | EXIST - P1           | P2          |                    | P1             |                                                                         |
| 204          | OFFICE                | CPT1         | EXIST - P1           | P2          |                    | P1             |                                                                         |
| 205          | OFFICE                | CPT1         | EXIST - P1           | P2          |                    | P1             |                                                                         |
| 206          | TOILET                | CT1          | P3                   | P1 AT CROWN |                    | P1             | USE SALVAGED CROWN FROM DEMOLITION SCOPE.                               |
| H201         | CORRIDOR              | CPT1         | EXIST - P1           | P1          |                    | P1             |                                                                         |
| H202         | CORRIDOR              | CPT1         | EXIST - P1           | P1          |                    | P1             |                                                                         |

### DOOR SCHEDULE

| ROOM NAME        | DOOR NUMBER | DOOR ELEV | DOOR SIZE | FRAME ELEV  | HDWR SET | REMARKS                                                                    |
|------------------|-------------|-----------|-----------|-------------|----------|----------------------------------------------------------------------------|
| FIRST FLOOR      |             |           |           |             |          |                                                                            |
| DINING/REMEMBER  | 102         | EXIST     | 32' x 84" | EXIST       | 1        | USE RECLAIMED DOOR FROM ROOM 105 OR 105A                                   |
| KITCHEN/REMEMBER | 105         | EXIST     | 36' x 80" | MATCH EXIST | 1        | PAINT CORRIDOR SIDE OF DOOR & FRAME P1. STAIN ROOM SIDE TO MATCH EXISTING. |
| CLOSET           | 106         | AS        | 30' x 80" | 9           | 2        | PAINT DOOR & FRAME P1                                                      |
| ELEC             | 106A        | AT        | 30' x 80" | 8           | 2        | PAINT DOOR & FRAME P1                                                      |

- GENERAL DOOR NOTES:
1. ANY NEW DOORS/FRAMES OR MODIFIED DOORS/FRAMES SHALL HAVE TRIM PROFILES AND DOOR PANELING TO MATCH EXISTING.
  2. DO NOT DISCARD OF ANY DEMOLISHED DOORS. PROTECT & SALVAGE FOR RE-USE OR RETURN TO OWNER.

### FINISH LEGEND

| ABBREVIATION | MATERIAL                 | MANUFACTURER     | COLOR/STYLE                             | SIZE           | NOTES                                                   |
|--------------|--------------------------|------------------|-----------------------------------------|----------------|---------------------------------------------------------|
| CEILING      |                          |                  |                                         |                |                                                         |
| ACT1         | ACOUSTICAL CEILING TILE  | ARMSTRONG        | ULTIMA BEVELED TEGULAR                  | MATCH EXISTING | SUPRAFINE XL FIREGUARD 9/16" EXPOSED TEE                |
| FLOORING     |                          |                  |                                         |                |                                                         |
| CPT1         | CARPET 1                 | MANNINGTON       | MOSSO, BROOM 42332                      | BROADLOOM      |                                                         |
| VCT1         | VINYL COMPOSITION TILE 1 | JOHNSONITE       | AZROCK VCT, V-217 WEATHERED CB          | 12" x 12"      |                                                         |
| WD1          | WOOD FLOOR 1"            | OAK              |                                         | EXISTING       | *REFINISHED EXISTING HARDWOODS, SEE NOTE 2 BELOW        |
| WD2          | WOOD FLOOR 2             | OAK              |                                         | MATCH EXISTING | SEE SPECS                                               |
| CT1          | CERAMIC FLOOR TILE       | ROCA             | CC MOSAICS, HEXAGON WHITE & BLACK MATTE | 1" x 1"        |                                                         |
| PAINT        |                          |                  |                                         |                |                                                         |
| P1           | TRIM PAINT               | SHERWIN WILLIAMS | SW 7006 EXTRA WHITE (BRIGHT WHITE)      |                | WALL: CASHMERE PEARL SHEEN, TRIM/BASE: SEMI-GLOSS       |
| P2           | FIELD PAINT              | SHERWIN WILLIAMS | SW 6169 SEDATE GRAY                     |                | CASHMERE PEARL SHEEN                                    |
| P3           | FIELD PAINT              | SHERWIN WILLIAMS | SW 7004 SNOWBOUND                       |                | CASHMERE PEARL SHEEN                                    |
| P4           | FIELD PAINT              | SHERWIN WILLIAMS | SW 6105 DIVINE WHITE (OFF-WHITE)        |                | SEMI-GLOSS                                              |
| P5           | FIELD PAINT              | SHERWIN WILLIAMS | SW 6693 LILY (YELLOW)                   |                | CASHMERE PEARL SHEEN                                    |
| FLOOR BASE   |                          |                  |                                         |                |                                                         |
| RB1          | RUBBER WALL BASE         | JOHNSONITE       | 44 DARK BROWN                           | 4"             |                                                         |
| WDB1         | WOOD WALL BASE*          |                  | SW 7006 EXTRA WHITE (BRIGHT WHITE)      | MATCH EXISTING | *RECLAIMED BASE FROM DEMOLITION SCOPE, SEMI-GLOSS PAINT |
| CTB1         | CERAMIC TILE BASE        | ROCA             | BLACK BRIGHT U759 A3401                 | 3" x 6"        |                                                         |

- NOTES:
1. ALL WALLS SHOULD BE LEVEL 4 FINISH.
  2. STAIN COLOR BY ARCHITECT/OWNER. CLEAR SATIN POLYURETHANE FINISH COAT.

### HARDWARE SETS

- SET NO. 1 - PASSAGE SET  
HINGES  
MORTISE LATCHSET  
SILENCERS  
BUMPER
- SET NO. 2 - STORAGE SET  
HINGES  
MORTISE LOCKSET  
SILENCERS  
BUMPER

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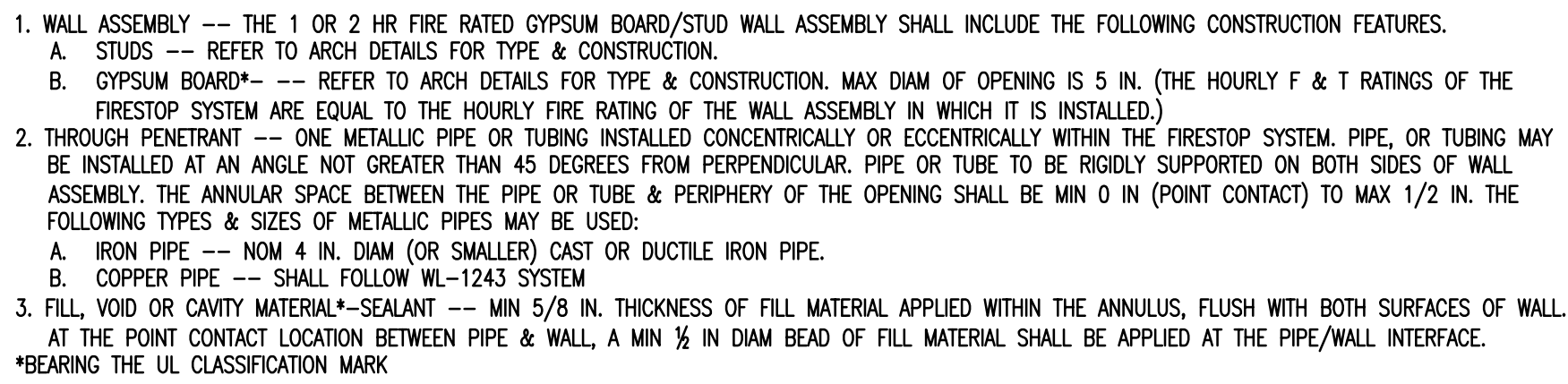


| PLUMBING FIXTURE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p>WC-1: WATER CLOSET (FLOOR MOUNTED)</p> <ol style="list-style-type: none"> <li>1. TYPE<br/>A. SLOAN WETS-2021, SIPHON JET, ELONGATED BOWL, VITREOUS CHINA, 1.1 GAL FLUSH VALVE.</li> <li>2. SEAT<br/>A. GENTOCO 820STSS WHITE, EXTRA HEAVY DUTY, ELONGATED OPEN FRONT, STAINLESS STEEL POST, SELF-SUSTAINING CHECK HINGES.</li> <li>3. CONNECTION<br/>A. 3" WASTE. 1" COLD WATER.</li> <li>4. MOUNTING<br/>A. FLOOR 17" TO RIM.</li> <li>5. FLUSH VALVE<br/>A. SLOAN ROYAL MODEL 111 WITH SCREW DRIVER STOPS. ROUGH IN FOR VALVE OPERATOR TO WIDE SIDE OF STALL.</li> </ol>                                                                                |  |
| <p>L-1: LAVATORY (WALL HUNG)</p> <ol style="list-style-type: none"> <li>1. TYPE<br/>A. AMERICAN STANDARD DECORUM 9024, VITREOUS CHINA.</li> <li>2. SIZE<br/>A. 18.25"x20" RECTANGULAR.</li> <li>3. CONNECTION<br/>A. 1-1/4" WASTE, 1/2" CW, 1/2" HW.</li> <li>4. MOUNTING<br/>A. WALL 34" AFF TO RIM.</li> <li>5. FITTING<br/>A. DELTA 520-SSMPL-DST, SINGLE HANDLE WITH AERATOR, STAINLESS FINISH.</li> <li>6. SUPPLIES<br/>A. MCQUIRE 165LK WITH LOOSE KEY STOPS.</li> <li>7. DRAIN<br/>A. DELTA RP26533 METAL POP-UP ASSEMBLY DRAIN.</li> <li>8. TRAP<br/>A. MCQUIRE 8872 1-1/4" P-TRAP WITH C.O. PLUG.</li> <li>9. CARRIER<br/>A. WATTS WCA-4</li> </ol> |  |

| PIPE IDENTIFICATION SCHEDULE |                      |            |
|------------------------------|----------------------|------------|
| SERVICE TYPE                 | DECAL IDENTIFICATION | TAPE COLOR |
| COLD WATER SERVICE           | COLD WATER SUPPLY    | GREEN      |
| HOT WATER                    | DOMESTIC HOT WATER   | YELLOW     |
| HOT WATER RETURN             | HOT WATER RETURN     | YELLOW     |

| WATER-HAMMER ARRESTER SCHEDULE |      |       |       |        |         |         |
|--------------------------------|------|-------|-------|--------|---------|---------|
| PDI UNITS                      | A    | B     | C     | D      | E       | F       |
| FIXTURE UNITS                  | 1-11 | 12-32 | 33-60 | 61-113 | 114-154 | 155-330 |

NOTES: FIXTURE UNITS BASED ON IPC, TABLE E103.3(2), LOAD VALUES ASSIGNED TO FIXTURES.



1 FIRE STOPPING DETAIL – METALLIC PIPE  
NTS



| PLUMBING LEGEND     |                                          | PLUMBING LEGEND                                                                     |                                       |
|---------------------|------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|
| SYMBOL              | DESCRIPTION                              | SYMBOL                                                                              | DESCRIPTION                           |
| — — — — —           | COLD WATER LINE - NEW (CW)               |  | PIPE DOWN OR DROP (IN OR DROP)        |
| — — — — CW — — — —  | COLD WATER LINE - EXISTING (CW)          |  | PIPE UP                               |
| — — — — —           | COLD WATER LINE - DEMO (CW)              |  | PIPE BREAK OR CONTINUATION            |
| — — — — —           | HOT WATER LINE - NEW (HW)                |  | P-TRAP                                |
| — — — — HW — — — —  | HOT WATER LINE - EXISTING (HW)           |  | END CAP                               |
| — — — — —           | HOT WATER LINE - DEMO (HW)               |  | UNION                                 |
| — — — — —           | HOT WATER RECIRCULATING LINE - NEW (HWR) |  | INLINE CLEANOUT                       |
| — — — — —           | SANITARY WASTE LINE - NEW (W)            |  | SHOCK ABSORBER & TYPE                 |
| — — — — SAN — — — — | SANITARY WASTE LINE - EXISTING (W)       |  | BALL VALVE                            |
| — — — — SAN — — — — | SANITARY WASTE LINE - DEMO (W)           |  | POINT OF CONNECTION - NEW TO EXISTING |
| — — — — —           | SANITARY VENT LINE - NEW (V)             |  | AREA TO BE DEMOLISHED                 |
| — — — — —           | SANITARY VENT LINE - EXISTING (V)        |                                                                                     |                                       |
| — — — — —           | SANITARY VENT LINE - DEMO (V)            |                                                                                     |                                       |

| ABBREVIATIONS |                       | *                           |
|---------------|-----------------------|-----------------------------|
| ABV           | Above                 | NC Normally Closed          |
| AD            | Access Door           | NC Normally Open            |
| AF            | After Finished Floor  | NC Normally Open            |
| BFP           | Backflow Preventer    | NPT National Pipe Thread    |
| CA            | Compressed Air        | NO Not To Scale             |
| CI            | Cast Iron             | OF Over Flow Storm Drain    |
| COL           | Column Line           | O Oxygen                    |
| CONN          | Connection            | P-P Pressure                |
| CS            | Cold Water            | PRV Pressure Reducing Valve |
| D             | De-ionized Water      | PSI Pounds Per Square Inch  |
| DN            | Down                  | RD Rain Drain               |
| ELEV          | Elevation             | SA Shock Absorber           |
| EXP           | Expansion Tank        | SH-# Sink                   |
| EW-#          | Electric Water Cooler | SH-# Shower                 |
| FD            | Fire Door             | SS Storm Drain              |
| FL            | Foot                  | STD Standard                |
| FT            | Feet                  | TEMP Temperature            |
| GPH           | Gallons Per Hour      | TOS Top of Steel            |
| GPM           | Gallons Per Minute    | TYPE Type                   |
| HW            | Hot Water             | U-# Unusual                 |
| HWR           | Hot Water Return      | VB Vacuum Breaker           |
| I             | Inlet Elevation       | V Vent                      |
| L-#           | Lavatory              | VIR Vent Thru Roof          |
| MA            | Medical Air           | W Storm Water               |
| MAX           | Maximum               | WB-# Wall Box               |
| MIN           | Minimum               | WC-# Water Closet           |
| MPT           | Male Pipe Thread      |                             |
| MSB-#         | Max Sink Basin        |                             |
| N/A           | Not Applicable        |                             |

\* Not All Abbreviations Used

# PLUMBING GENERAL NOTES

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1. VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES IN OR ATTACHED TO CASEWORK TO THE ARCHITECT AND THE MILLWORK SHOP DRAWINGS. COORDINATE PRIOR TO INSTALLATION.
2. CONFIRM OR VERIFY EXACT LOCATION AND ACTUAL INVERT OF SANITARY LINES PRIOR TO INSTALLATION.
3. DUE TO THE LARGE QUANTITY OF PIPING, DUCTWORK, CONDUIT, ETC. OVERHEAD, COORDINATION WITH OTHER DISCIPLINES IS MANDATORY.
4. LOCATE SHUT-OFF VALVES ABOVE CEILINGS AND IN LOCATIONS ACCESSIBLE FOR SERVICE. LOCATION SHALL COMPLY WITH THE REQUIREMENTS OF ALL CODES REFERENCED HEREIN. PROVIDE CEILING MARKERS FOR LOCATION IDENTIFICATION.
5. ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL SLOPE 1/8" PER FOOT UNLESS NOTED OTHERWISE. ALL SANITARY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL SLOPE 1/4" PER FOOT UNLESS NOTED OTHERWISE.
6. REFERENCE PLUMBING FIXTURE CONNECTION SCHEDULE ON SHEET P7.1 FOR LINE SIZES NOT SHOWN TO FIXTURES/EQUIPMENT.
7. ALL CLEANOUTS AND FLOOR DRAINS SHALL BE INSTALLED PLUMB AND LEVEL WITH FINISHED FLOOR ELEVATION.
8. CONTRACTOR SHALL PROVIDE HANGERS AND SUPPORTS FOR SEISMIC RESTRAINT PER THE INTERNATIONAL BUILDING CODE. SEISMIC REPORT REQUIRED BY SEISMIC ENGINEER.
9. ALL DRAINAGE PIPING AND PRESSURE SYSTEM PIPING SHALL BE RUN AS HIGH AS POSSIBLE TO BOTTOM OF STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE PIPE ROUTING WITH ALL OTHER TRADES.
10. THE FOLLOWING PLUMBING SYSTEMS SHALL BE INSULATED: COLD WATER, HOT WATER, HOT WATER RECIRCULATION, P-TRAPS AND HORIZONTAL PIPING RECEIVING CONDENSATE ABOVE CEILINGS.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE.
12. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EXACT LOCATIONS OF FIXTURES AND EQUIPMENT. ALL OFFSETS AND FITTINGS FOR COMPLETE INSTALLATION MAY NOT BE DEFINED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT DIMENSIONS AT THE BUILDING AND ANY NECESSARY CHANGES MADE IN ACCORDANCE WITH STRUCTURAL CONDITIONS. EQUIPMENT TO BE INSTALLED IN COORDINATION WITH OTHER SYSTEMS. IF CONFLICTS CAN NOT BE RESOLVED THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER.
13. CONTRACTOR SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS INsofar as THEY APPLY: NFPA 99, 2015 IBC, PLUMBING AND MECHANICAL CODES.
14. CONTRACTOR SHALL SECURE ALL PERMITS, INSPECTIONS, LICENSES AND TESTS REQUIRED FOR THIS WORK AND PAY ALL FEES IN CONNECTION THEREWITH.
15. ALL MATERIALS SHALL BEAR THE MANUFACTURER'S NAME, TRADE NAME AND BE U.L. LABELED IF REQUIRED BY CODE. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. ALL EQUIPMENT OF A SIMILAR TYPE SHALL BE OF THE SAME MANUFACTURER.
16. CONTRACTOR SHALL LOCATE AND SIZE ALL OPENINGS REQUIRED FOR PLUMBING EQUIPMENT AND PIPING; AND PROVIDE THIS INFORMATION TO GENERAL CONTRACTOR IN TIME TO NOT DELAY BUILDING CONSTRUCTION.
17. CONTRACTOR SHALL PROVIDE AND LOCATE SLEEVES AND INSERTS REQUIRED BEFORE THE FLOOR AND WALLS ARE BUILT OR SHALL BE RESPONSIBLE FOR THE COST OF CUTTING AND PATCHING REQUIRED FOR PIPES WHERE SLEEVES AND INSERTS WERE NOT INSTALLED OR WHERE THEY WERE INCORRECTLY LOCATED.
18. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR OF THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH THE DRAWINGS.
19. ALL WALL HUNG FIXTURES AND FLOOR MOUNTED MOP SINKS SHALL BE SEALED BETWEEN WALL AND FIXTURES WITH WHITE SILICONE CAULKING.
20. ALL COUNTER MOUNTED FIXTURE RIMS SHALL BE SEALED WITH SILICONE CAULKING.
21. LOCATE FLOOR CLEANOUTS PAST LIMITS OF THE CASEWORK.
22. CONTRACTOR SHALL MAKE PROVISIONS FOR EXPANSION LOOPS WHERE NECESSARY WHETHER OR NOT SHOWN ON DRAWINGS.
23. OFFSET PLUMBING VENTS AND WATER PIPING AS NECESSARY TO AVOID CONFLICTS WITH DUCTWORK. SEE HVAC PLANS.
24. IT IS THE INTENT AND MEANING OF THE DRAWINGS TO PROVIDE COMPLETE AND OPERABLE PLUMBING AND DRAINAGE SYSTEMS.
25. ALL PLUMBING LINE SIZE REDUCTIONS SHALL BE MADE WITH REDUCERS AND/OR REDUCING FITTINGS.
26. NO DOUBLE WYE FITTINGS OR CONNECTIONS PERMITTED. MAKE ALL SANITARY CONNECTIONS WITH OFFSET FITTINGS.

**REQUIRED WORK SEQUENCE:**

- A. Construct Work in stages during construction period:
1. Stage 1: [2nd Floor alterations], Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 15, 2019.
  2. Stage 2: [1st Floor alterations (if alternate is accepted)], Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. The 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.



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*consultants*



USC CAMPUS PLANNING AND  
CONSTRUCTION  
1300 PICKENS STREET  
COLUMBIA, SOUTH CAROLINA 29208

*project name*

## BARRINGER HOUSE RENOVATIONS

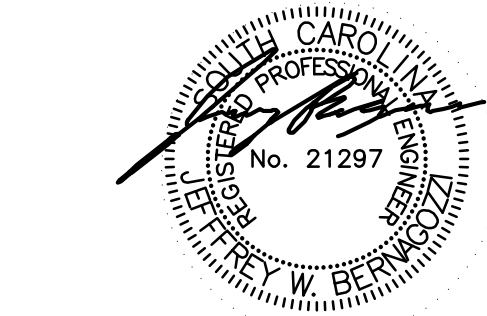
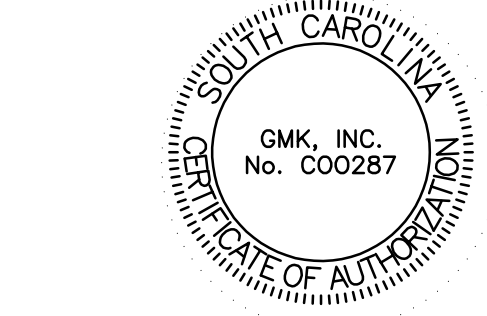
State project numbers

PROJECT # FP00000285

GMK project number

PROJECT # 16070.03/H27-D339-ID

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## CONSTRUCTION DOCUMENTS

*date*

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key plan



sheet title

## PLUMBING DETAILS, NOTES, LEGEND, ABBREVIATIONS & SCHEDULES

sheet number

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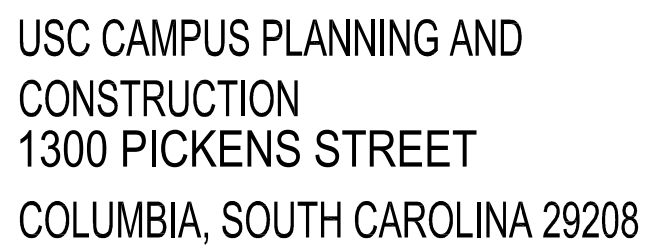
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checked by **JWB**





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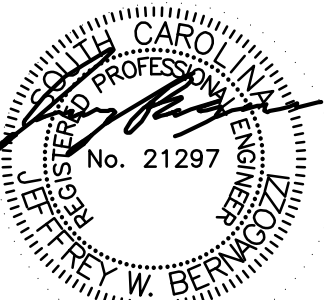


project name  
BARRINGER HOUSE  
RENOVATIONS

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**PARTIAL BASEMENT &  
BELOW SLAB  
PLUMBING PLANS**

sheet number

# P1.0

drawn by **JJR**  
checked by **JWB**



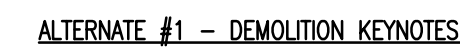
DEMOLITION KEYNOTES:

- 1 DEMOLISH EXISTING BASEMENT SLAB THIS AREA TO ACCESS EXISTING 4" WASTE PIPING BELOW SLAB.



## WASTE PIPING KEYNOTES

- ① CONFIRM INVERT OF EXISTING WASTE PIPING PRIOR TO INSTALLATION OF NEW WASTE PIPING TO VERIFY MINIMUM DEPTH OF COVERAGE WILL BE MAINTAINED FOR ALL NEW BELOW SLAB AND UNDERGROUND WASTE PIPING.



- 1.1 DEMOLISH EXISTING WASTE AND SUPPLY PIPING RISER TO DEMOLISHED KITCHEN FIXTURES. CAP EXISTING PIPING.

3 PARTIAL BASEMENT PLAN - PLUMBING DEMOLITION  
1/4"=1'-0"



WASTE PIPING KEYNOTES:

- ①.1 PROVIDE AND INSTALL 4" CLEANOUT IN VERTICAL 4" WASTE RISER



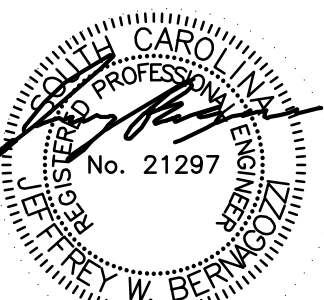
### SUPPLY PIPING KEYNOTES

- ① CONNECT NEW COLD, HOT AND HOT WATER SUPPLY PIPING TO EXISTING PIPING IN THIS LOCATION. FIELD VERIFY SIZE AND LOCATION.
- ② COORDINATE ROUTING OF SUPPLY PIPING IN THIS LOCATION WITH HVAC EQUIPMENT.

REQUIRED WORK SEQUENCE:

- A. Construct Work in stages during construction period:
- 1. Stage 1: [2nd Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2018.
  - 2. Stage 2: [1st Floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 150 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage work.





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PARTIAL FIRST FLOOR PLUMBING PLANS

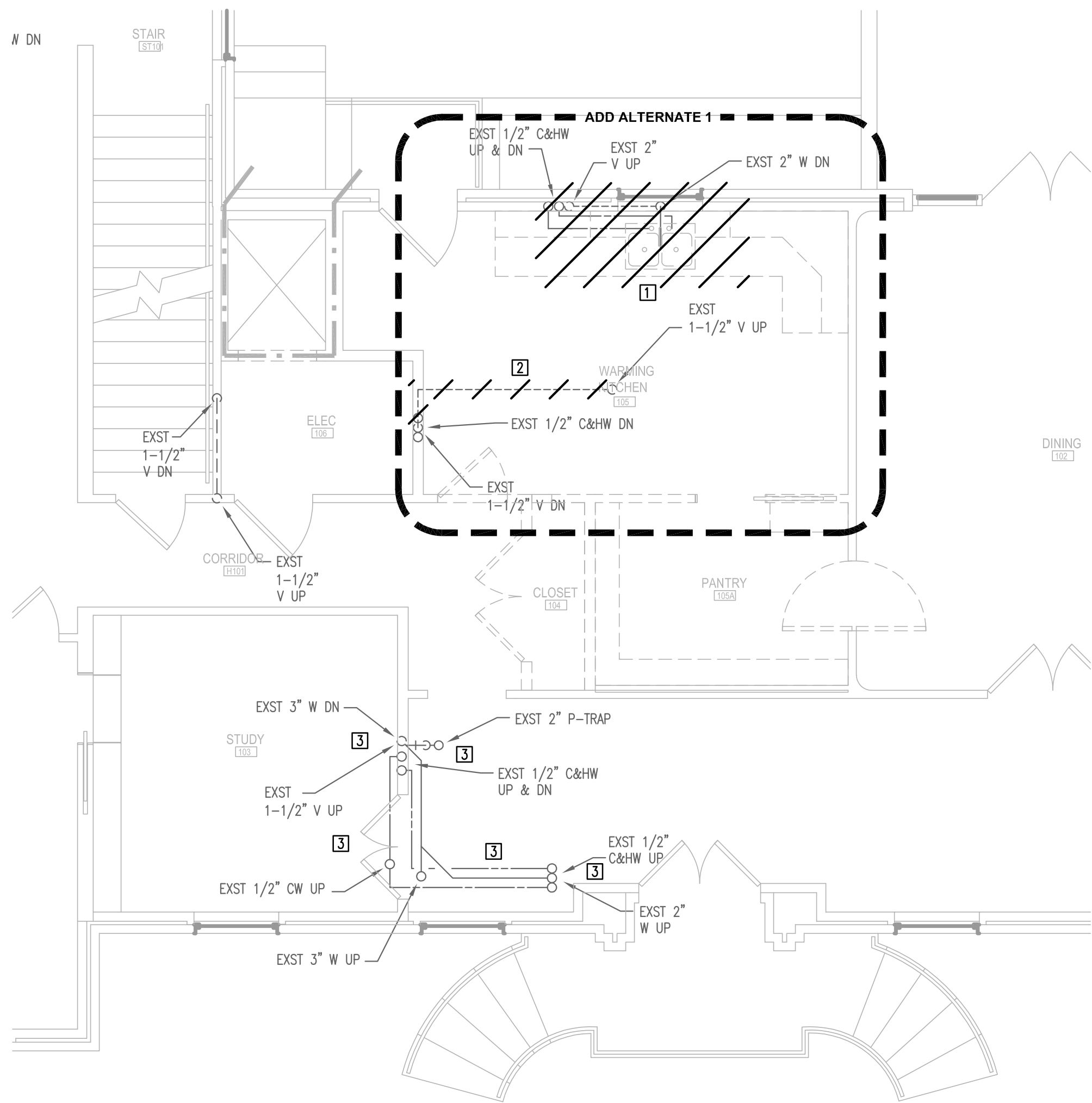
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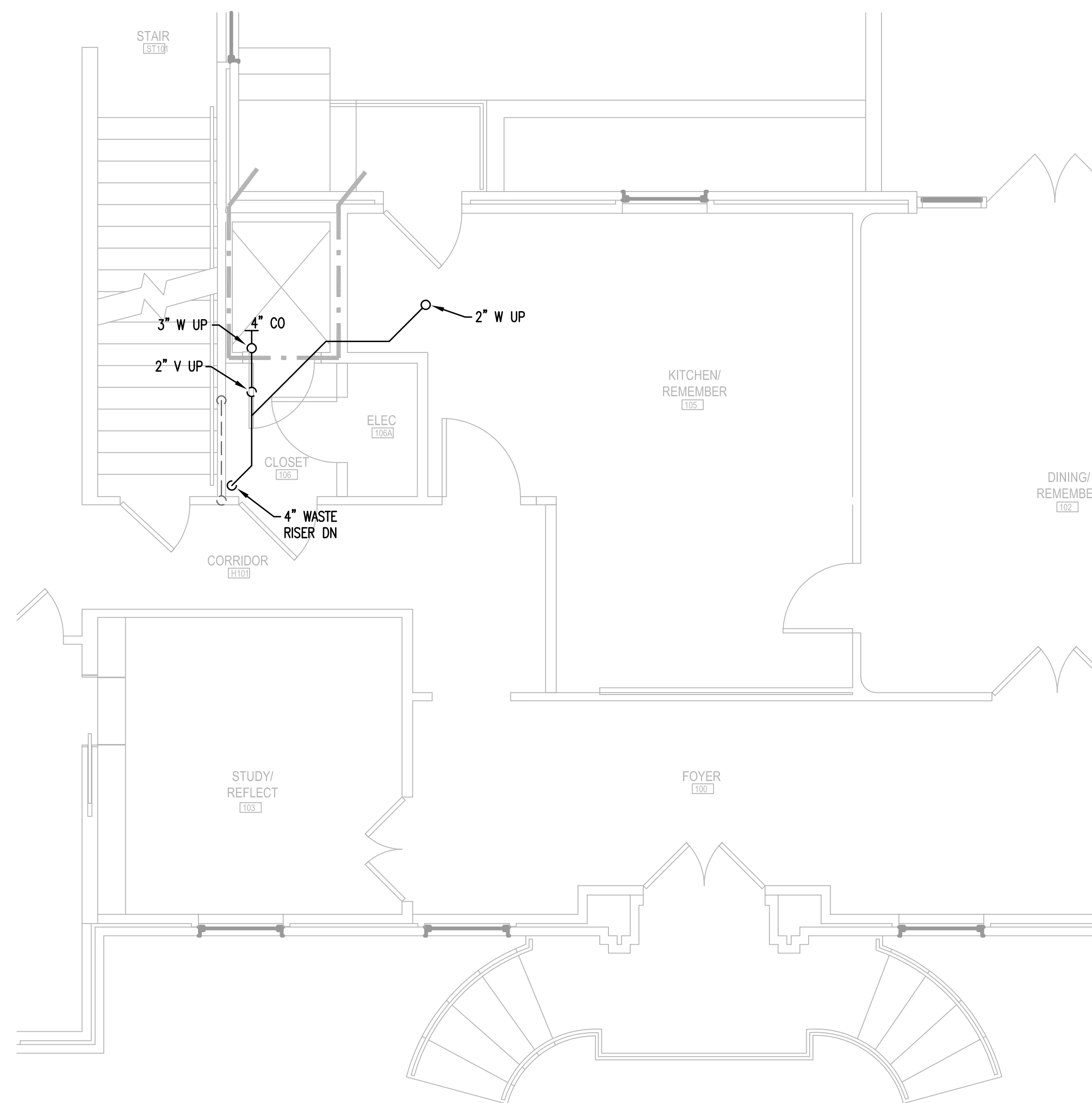
drawn by **JJR**  
checked by **JWB**

ALTERNATE #1 - PLUMBING DEMOLITION KEYNOTES:

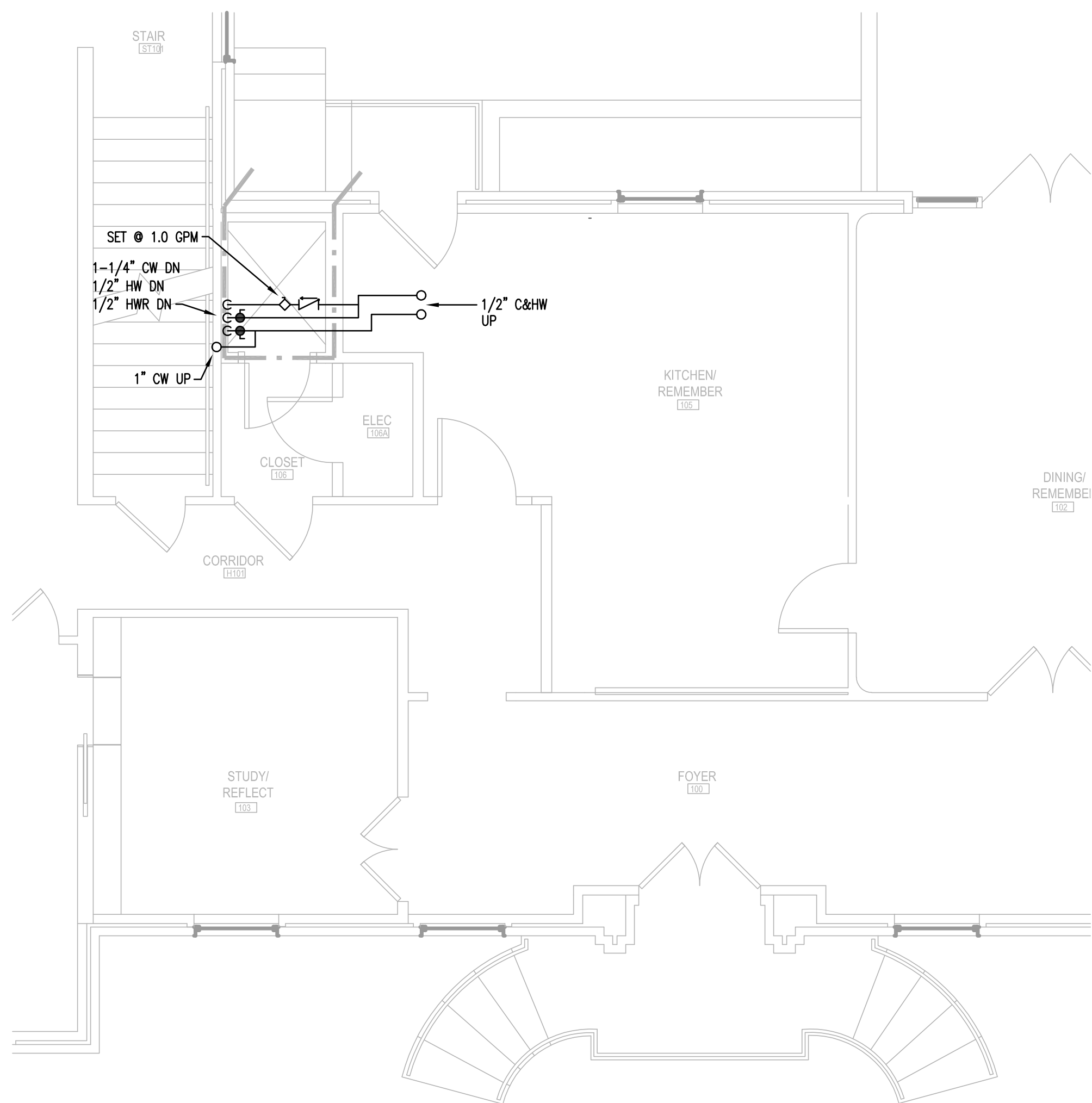
- DEMOLISH AND REMOVE EXISTING FIXTURE. DEMOLISH EXISTING WASTE AND SUPPLY PIPING BELOW FLOOR AND CAP IN BASEMENT. FIELD VERIFY SIZE AND LOCATION OF EXISTING.
- DEMOLISH EXISTING VENT PIPING TO MAIN VENT PIPING AS SHOWN ON SHEET P1.2 AND CAP. FIELD VERIFY SIZE AND LOCATION OF EXISTING.
- EXISTING PLUMBING SHALL REMAIN CAPPED BELOW FLOOR ON SECOND FLOOR. ACCESS TO PIPING SHALL BE FROM SECOND FLOOR ABOVE.



1 PARTIAL FIRST FLOOR PLAN - PLUMBING DEMOLITION  
1/4"=1'-0"



2 PARTIAL FIRST FLOOR PLAN - WASTE & VENT PIPING  
1/4"=1'-0"

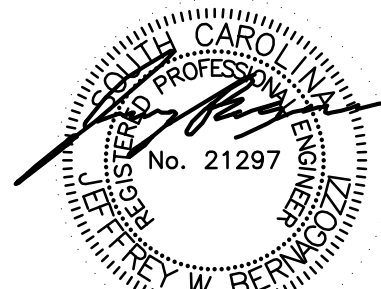


3 PARTIAL FIRST FLOOR PLAN - SUPPLY PIPING  
1/4"=1'-0"

REQUIRED WORK SEQUENCE:

- Construct Work in stages during construction period:
  - Stage 1: [2nd Floor alterations] Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 15, 2019.
  - Stage 2: [1st Floor alterations (if alternate is accepted)] Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- Coordinate construction schedule and operations with Owner.
- Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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key plan



sheet title  
PARTIAL SECOND FLOOR  
PLUMBING PLANS

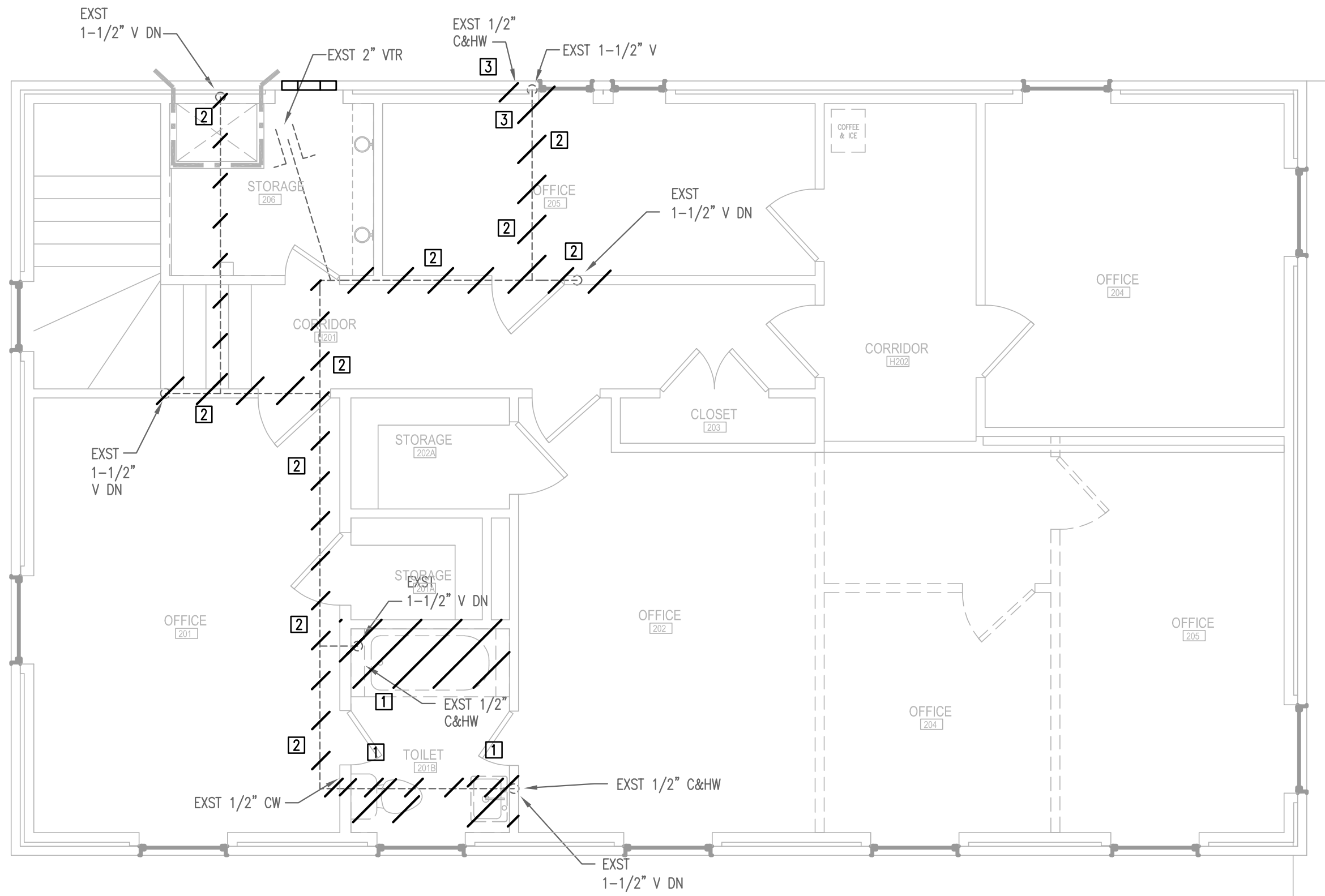
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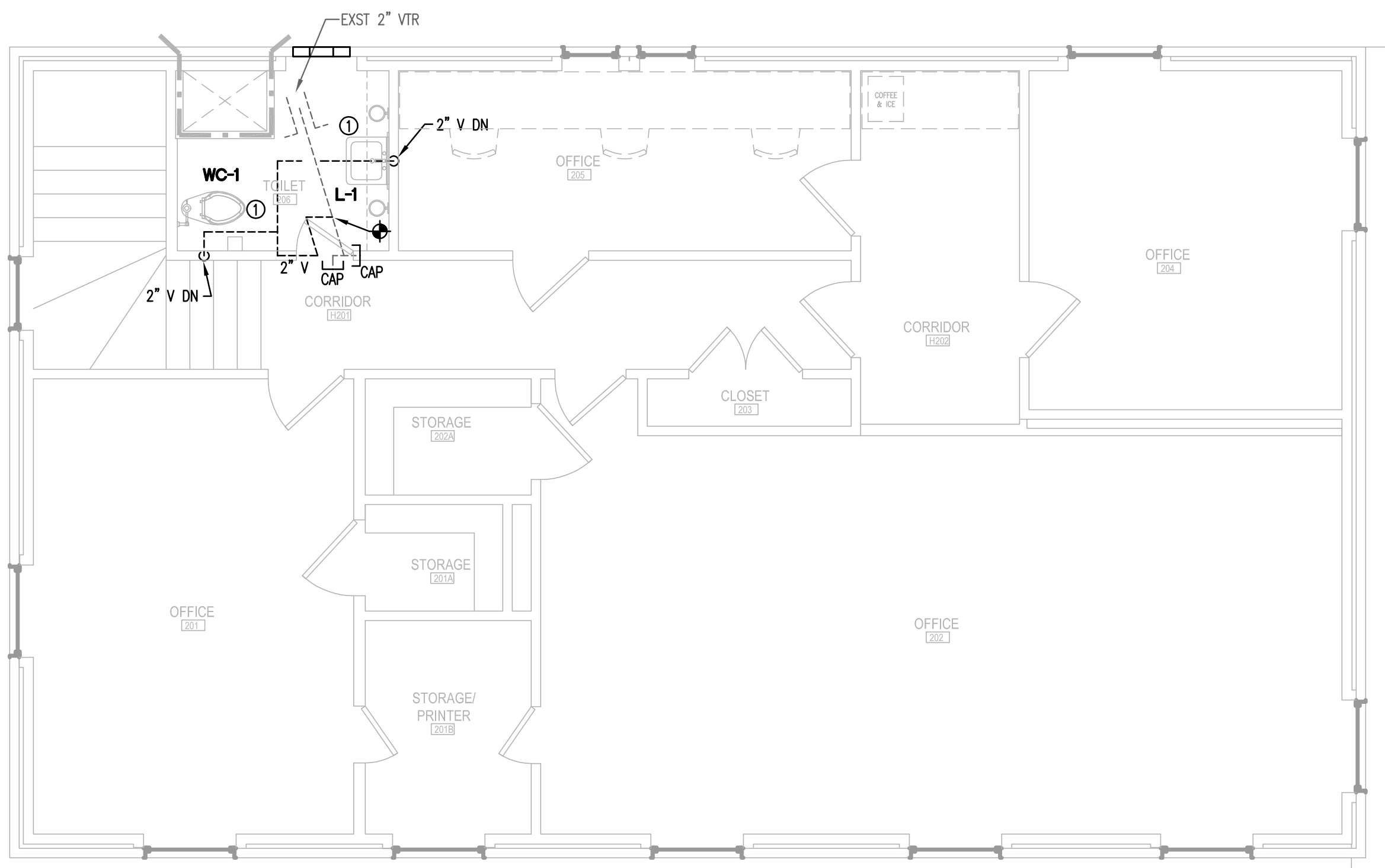
drawn by **JJR**  
checked by **JWB**

PLUMBING DEMOLITION KEYNOTES:

- DEMOLISH AND REMOVE EXISTING PLUMBING FIXTURE, TRIM AND ACCESSORIES. DEMOLISH EXISTING WASTE PIPING BELOW EXISTING FINISHED FLOOR LEVEL AND CAP. DEMOLISH EXISTING VENT PIPING TO MAIN VENT PIPING IN ATTIC AND CAP AS SHOWN. DEMOLISH EXISTING COLD & HOT WATER SUPPLY PIPING BELOW EXISTING FINISHED FLOOR LEVEL AND CAP. FIELD VERIFY SIZE AND LOCATION OF EXISTING.
- DEMOLISH EXISTING VENT PIPING TO MAIN VENT PIPING AND CAP. FIELD VERIFY SIZE AND LOCATION OF EXISTING. DEMOLISH ONLY HORIZONTAL PIPING LOCATED IN ATTIC SPACE. WHERE HORIZONTAL VENT PIPING IS LOCATED IN CEILING SPACE PIPING SHALL BE CAPPED AT VERTICAL RISERS.
- DEMOLISH EXISTING WASTE PIPING AND SUPPLY PIPING BELOW FLOOR. ALTERNATE #1 INCLUDES DEMOLITION OF PLUMBING PIPING THROUGH FIRST FLOOR AND CAPPED BASEMENT.



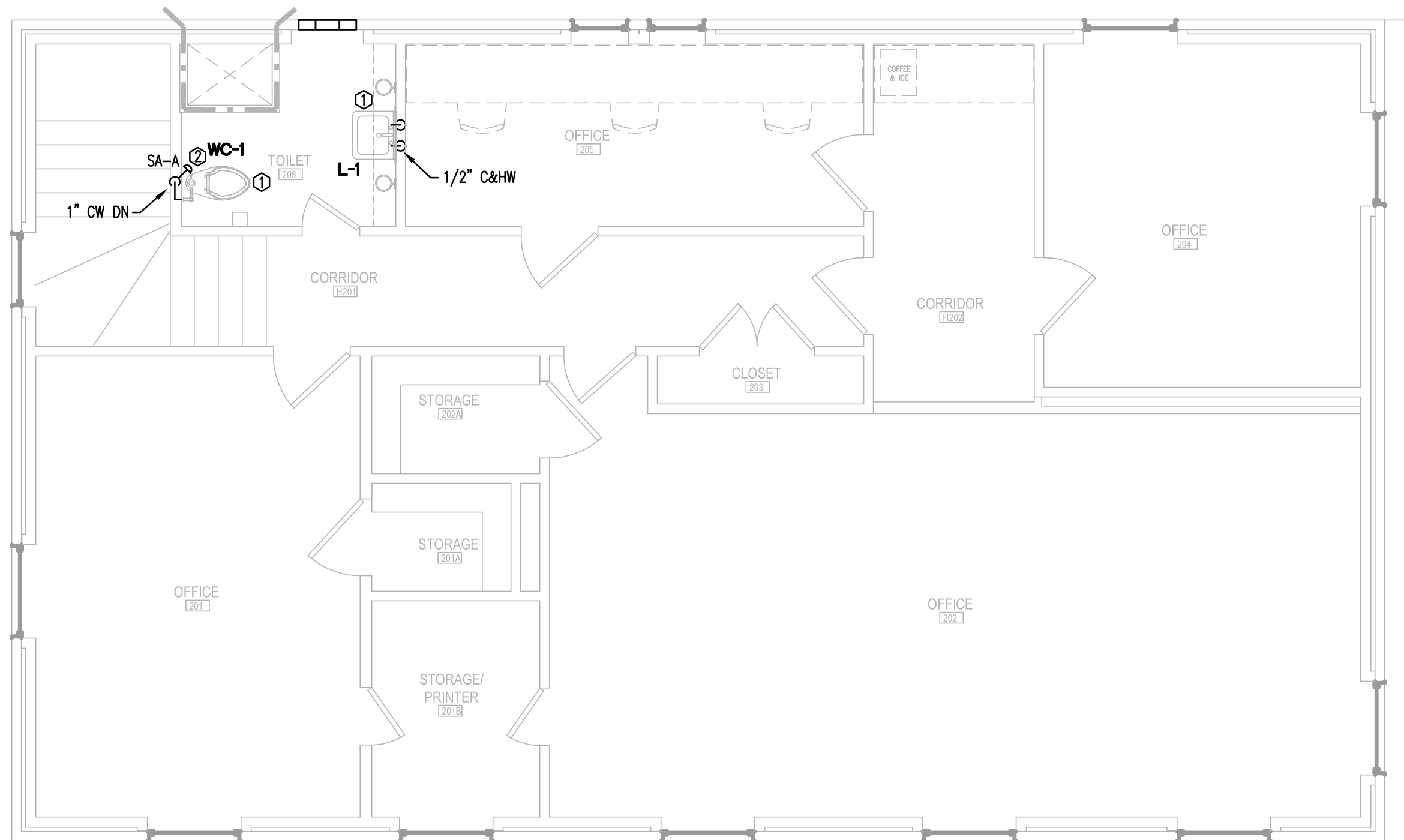
1 PARTIAL SECOND FLOOR PLAN – PLUMBING DEMOLITION  
1/4"=1'-0"



2 PARTIAL SECOND FLOOR PLAN – WASTE & VENT PIPING  
1/4"=1'-0"

WASTE PIPING KEYNOTES:

- PROVIDE AND INSTALL NEW FIXTURE. CONNECT WASTE PIPING TO EXISTING WASTE RISER IN BASEMENT. CONNECT VENT PIPING TO EXISTING VTR IN ATTIC SPACE.



3 PARTIAL SECOND FLOOR PLAN – SUPPLY PIPING  
1/4"=1'-0"

SUPPLY PIPING KEYNOTES:

- PROVIDE AND INSTALL NEW PLUMBING FIXTURE. CONNECT TO NEW WATER PIPING AS SHOWN.
- PROVIDE AND INSTALL NEW ACCESS PANEL FOR FIXTURE MAINTENANCE. COORDINATE LOCATION OF COLD WATER SUPPLY SHOCK ABSORBER WITH ACCESS PANEL.

REQUIRED WORK SEQUENCE:

- Construct Work in stages during construction period:
  - Stage 1: [2nd Floor alterations] Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
  - Stage 2: [1st Floor alterations (if alternate is accepted)] Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- Coordinate construction schedule and operations with Owner.
- Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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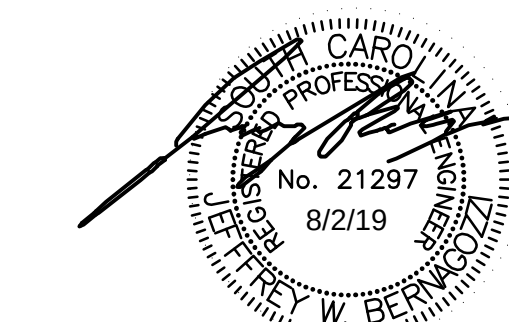
USC CAMPUS PLANNING AND  
CONSTRUCTION  
1300 PICKENS STREET  
COLUMBIA, SOUTH CAROLINA 29208

project name  
BARRINGER HOUSE  
RENOVATIONS

State project number  
PROJECT # FP00000285

PROJECT # 16070.03/H27-D339-ID

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CONSTRUCTION DOCUMENTS

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AUGUST 2, 2019

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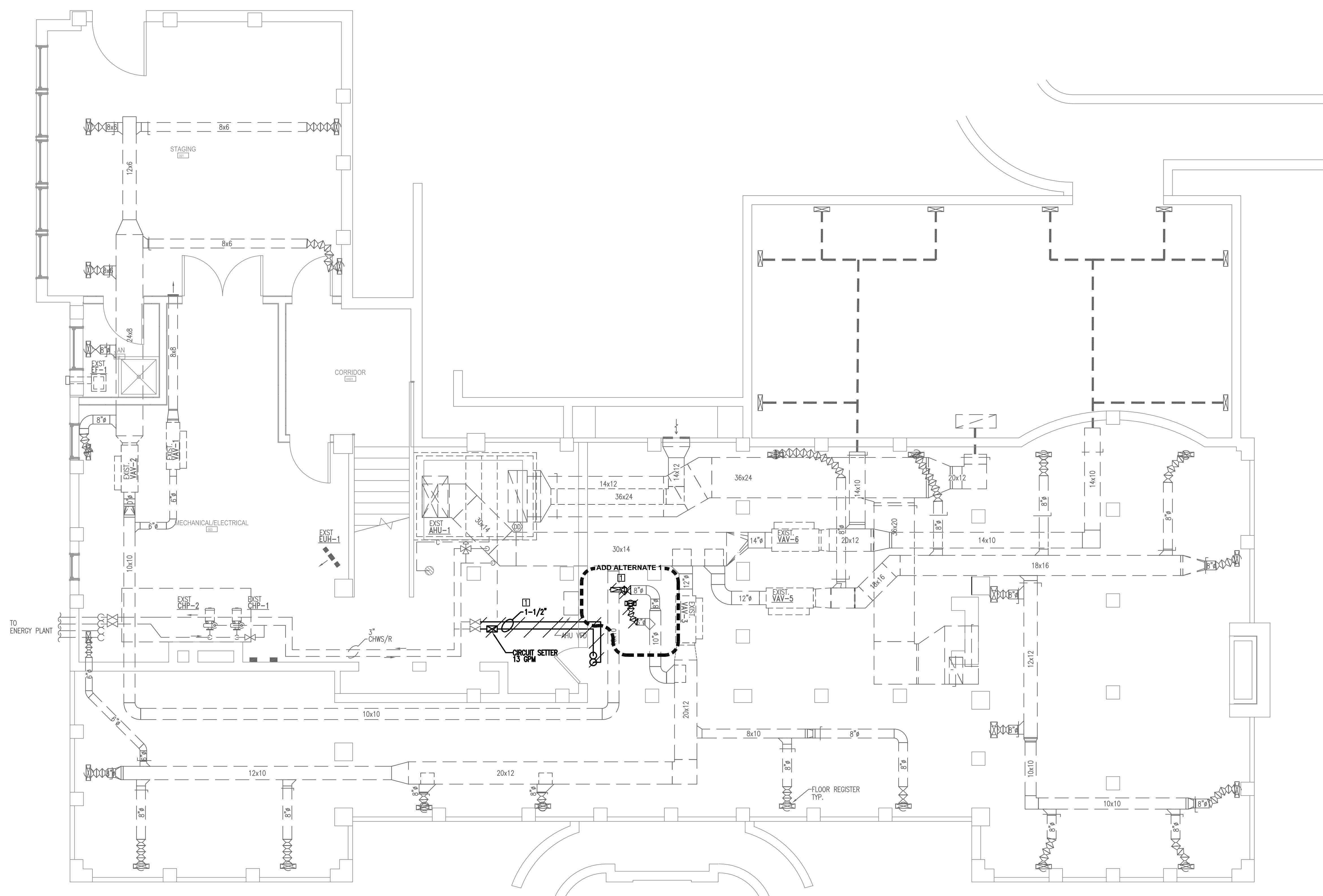


sheet title  
**HVAC  
DEMOLITION  
BASEMENT PLAN**

sheet number

## M1.0

*drawn by* JWE  
*checked by* JDF



① BASEMENT FLOOR LEVEL – HVAC DEMOLITION  
1/4"=1'-0"

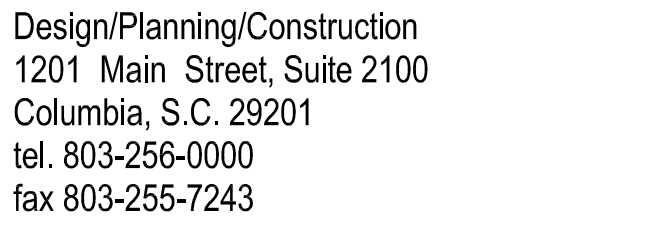
DEMOLITION KEYNOTES:

1 REMOVE ALL EXISTING EQUIP, DUCTWORK AND PIPING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION PRIOR TO BIDDING.

**REQUIRED WORK SEQUENCE:**

- A. Construct Work in stages during construction period:
  1. Stage 1: [2nd Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2018.
  2. Stage 2: [1st Floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. Work on the 1st floor that supports the Work on the 2nd floor (functions such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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owner



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project name  
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RENOVATIONS**

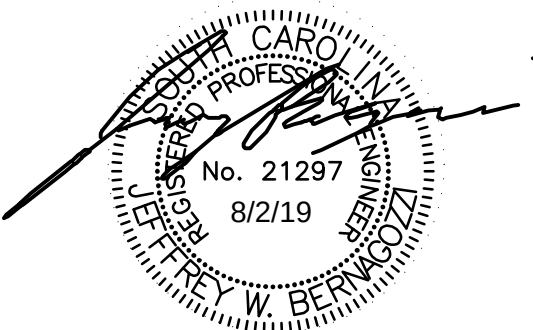
State project number

PROJECT # FP00000285

GMK project number

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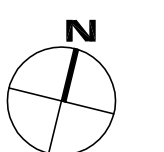


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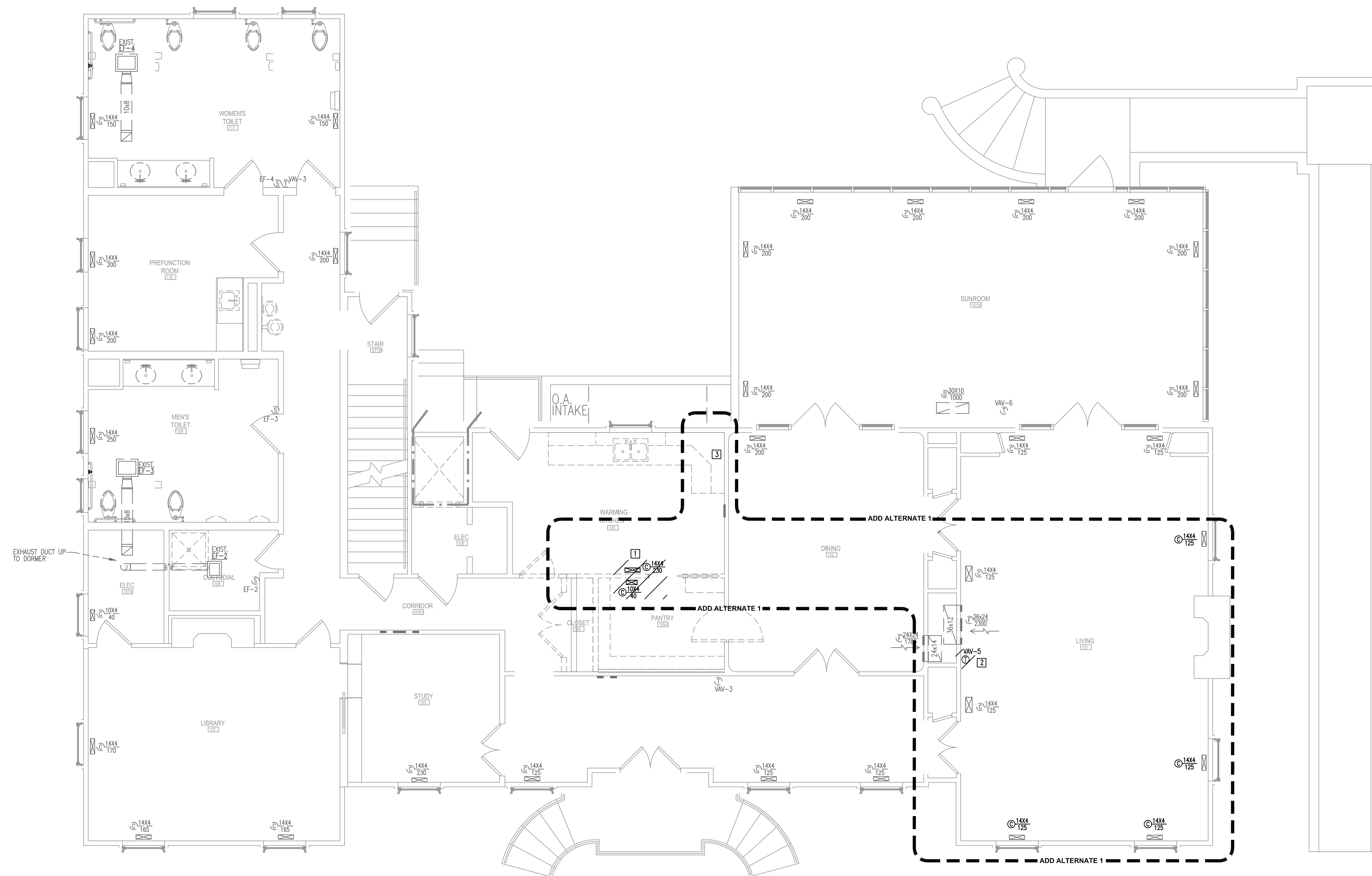


sheet title  
**HVAC  
DEMOLITION  
FIRST FLOOR PLAN**

sheet number

## M1.1

drawn by **JWB**  
checked by **JDR**



1 FIRST FLOOR LEVEL – HVAC DEMOLITION  
1/4"=1'-0"

DEMOLITION KEYNOTES:

- 1 RELOCATE EXISTING FLOOR GRILLE
- 2 RELOCATE AND RE-WIRE EXISTING TEMPERATURE SENSOR
- 3 RE-LOCATE AND RE-BALANCE EXISTING SUPPLY GRILLE  
REMOVE EXISTING ABANDONED DUCTWORK IN SOFFIT BEING DEMOLISHED.  
REMOVE ASSOCIATED WALL LOUVER. PATCH AND REPAIR EXTERIOR WALL MATCH

REQUIRED WORK SEQUENCE:

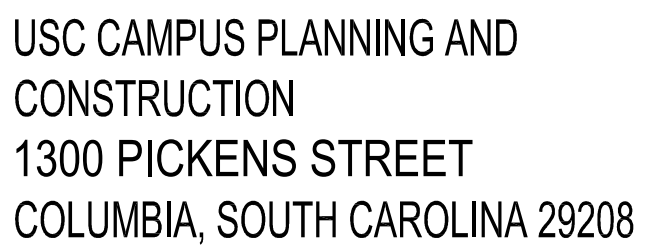
- REQUIRED WORK SEQUENCE**
- A. Construct Work during construction period:
1. Stage 1: [2nd Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
  2. Stage 2: [1st floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. Coordinate on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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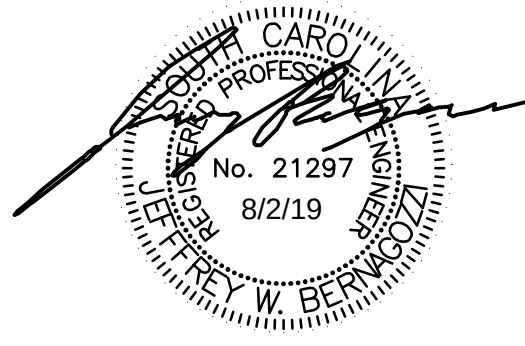


project name  
**BARRINGER HOUSE  
RENOVATIONS**

State project number  
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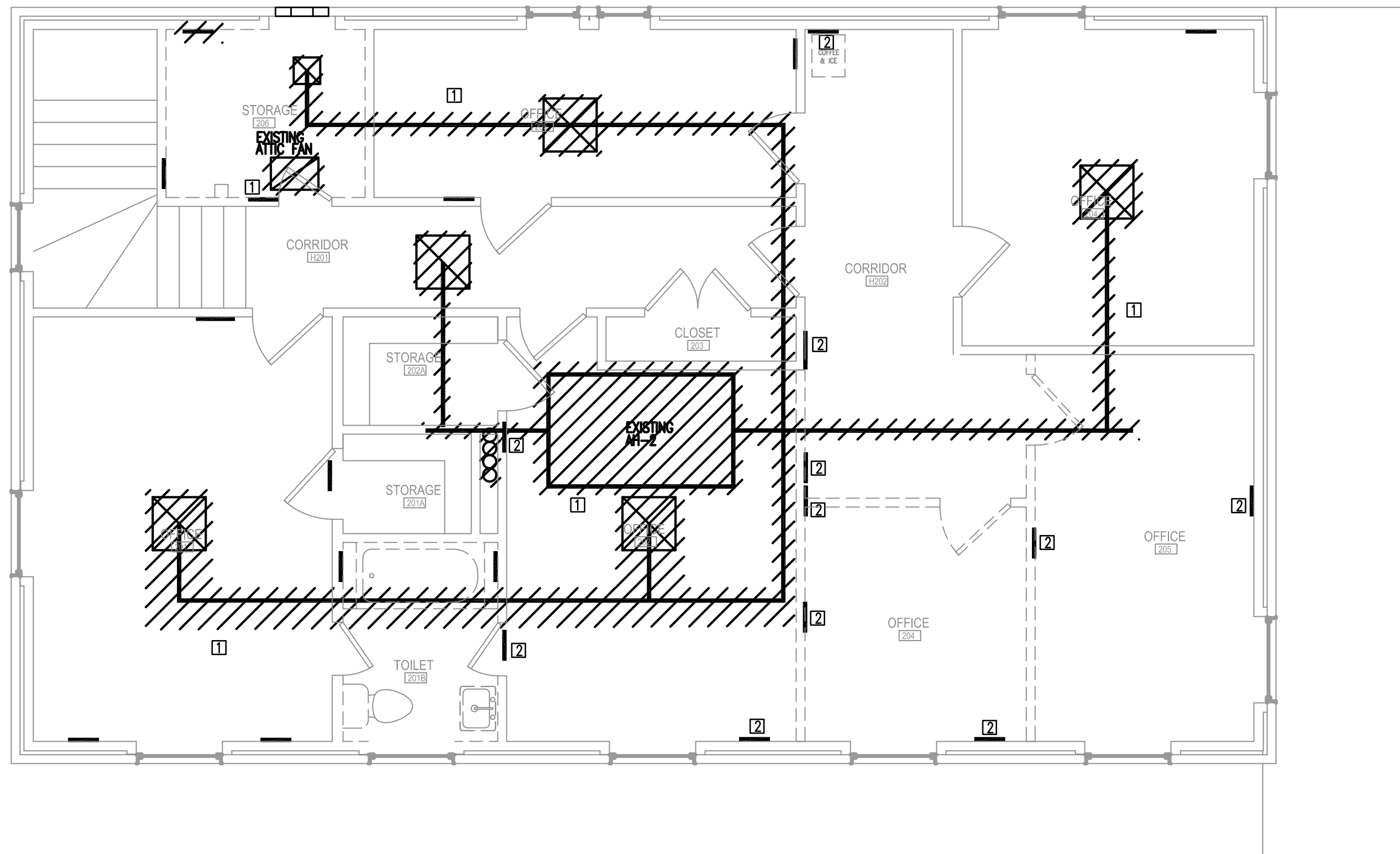
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## M1.2

drawn by **xxx**  
checked by **xxx**



1 SECOND FLOOR PLAN - HVAC DEMOLITION  
1/4"=1'-0"

**DEMOLITION KEYNOTES:**

- ① REMOVE ALL EXISTING EQUIP, DUCTWORK AND PIPING. CONTRACTOR SHALL FIELD VERIFY EXTENT OF DEMOLITION PRIOR TO BIDDING.
- ② REMOVE EXISTING GRILLE CONTRACTOR SHALL CAP DUCT AND REPAIR WALL.

**REQUIRED WORK SEQUENCE:**

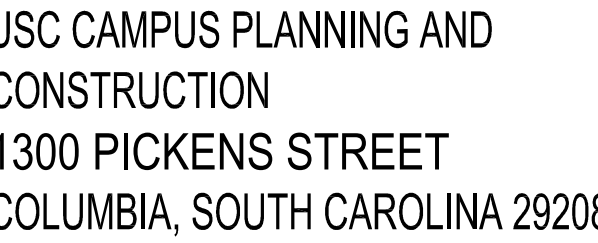
- A. Construct Work in stages during construction period:
  - 1. Stage 1: [2nd Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
  - 2. Stage 2: [1st Floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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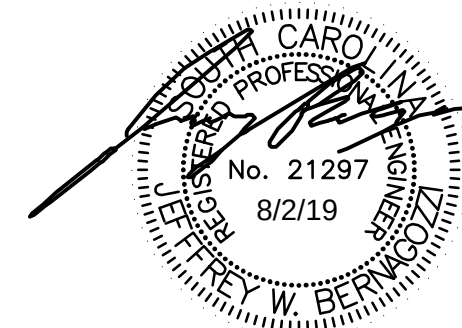
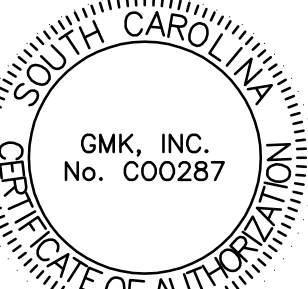


project name  
**BARRINGER HOUSE  
RENOVATIONS**

State project number

GMK project number  
PROJECT # 16070.03/H27-D339-I

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CONSTRUCTION DOCUMENTS

date  
AUGUST 2, 2019

[illegible]

key plan

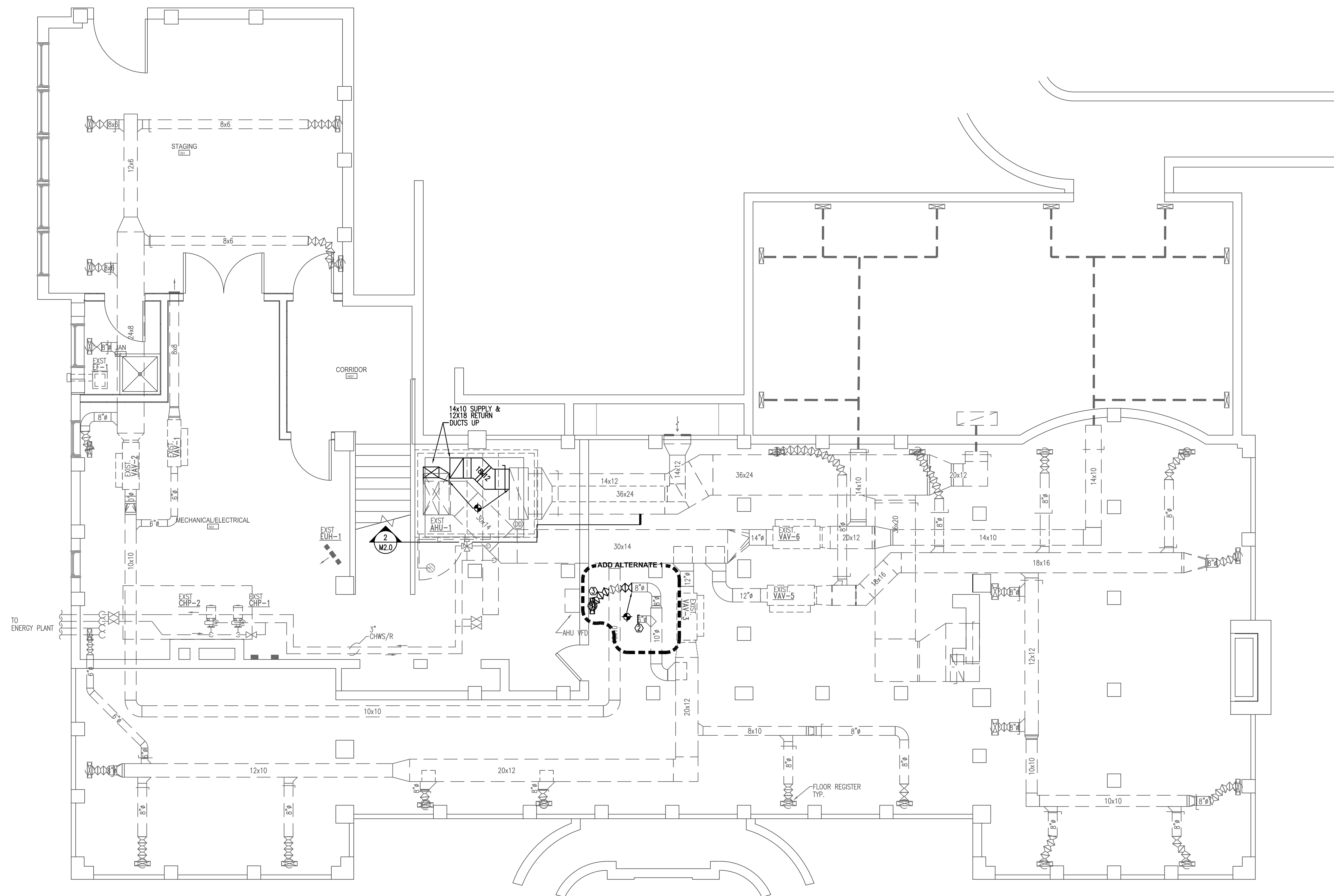


sheet title  
**HVAC  
RENOVATION  
BASEMENT PLAN**

sheet number

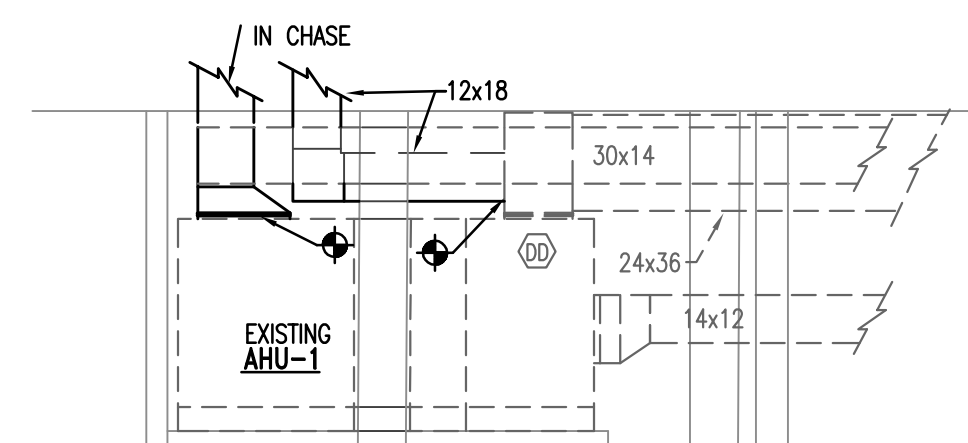
## M2.0

drawn by **JWE**  
checked by **JDR**



1 BASEMENT FLOOR LEVEL – HVAC RENOVATION  
1/4"=1'-0"

RENOVATION KEYNOTES:  
 ① RE-SET VAV BOX TO 1700 CFM MAX AND 700 CFM MIN.  
 ② CAP DUCT  
 ③ RE-LOCATE FLOOR GRILLE TO THIS APPROX. LOCATION. SEE M2.



② AHU-1 SECTION VIEW  
1/4"=1'-0"

**REQUIRED WORK SEQUENCE:**

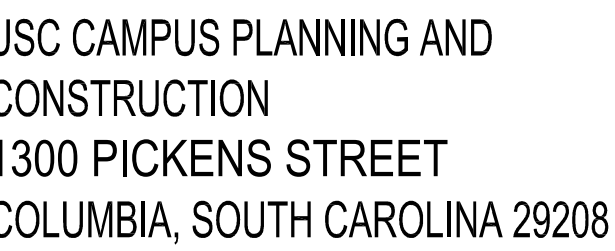
- A. Construct Work in stages during construction period:
  - 1. Stage 1: [2nd Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
  - 2. Stage 2: [1st Floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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## consultants

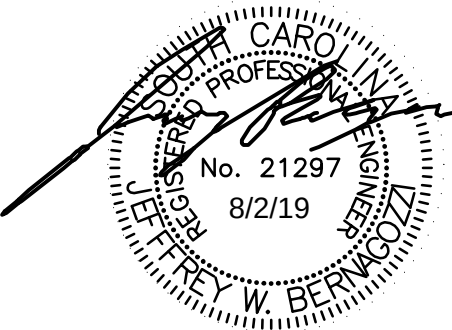
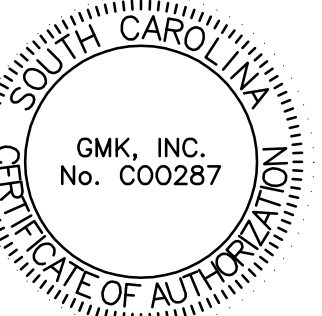


project name  
**BARRINGER HOUSE  
RENOVATIONS**

State project number

PROJECT # 16070.03/H27-D339-ID

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CONSTRUCTION DOCUMENTS

date  
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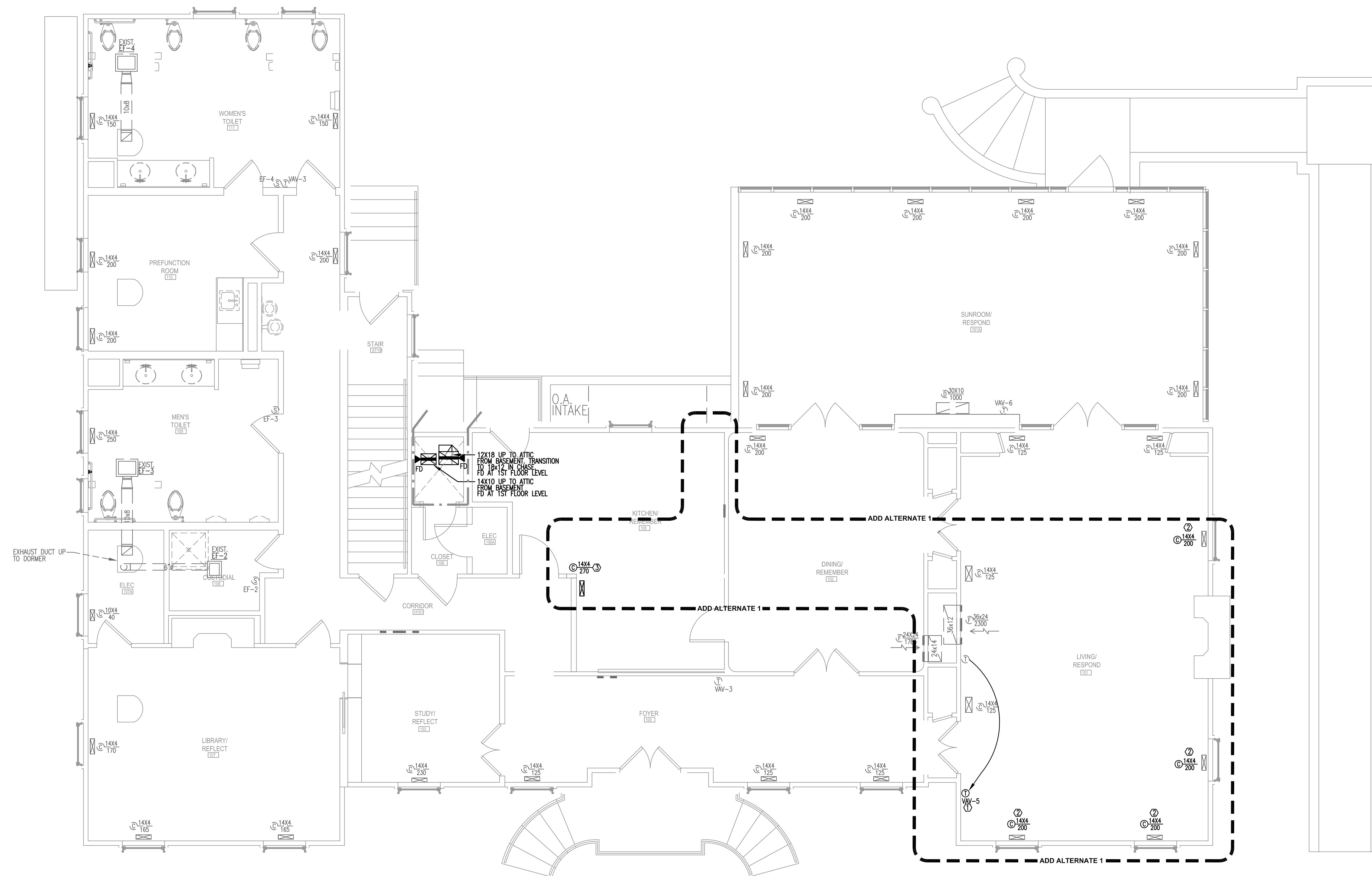
key plan



sheet number

## M2.1

drawn by **JWB**  
checked by **JDR**



1 FIRST FLOOR LEVEL – HVAC RENOVATION  
1/4"=1'-0"

RENOVATION KEYNOTES:

- ① RELOCATE EXISTING TEMPERATURE SENSOR TO THIS LOCATION
- ② RE-BALANCE EXISTING SUPPLY GRILLE TO 200 CFM

**REQUIRED WORK SEQUENCE:**

- A. Construct Work in stages during construction period:
  - 1. Stage 1: [2nd Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
  - 2. Stage 2: [1st Floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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*consultants*

owner



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COLUMBIA, SOUTH CAROLINA 29208

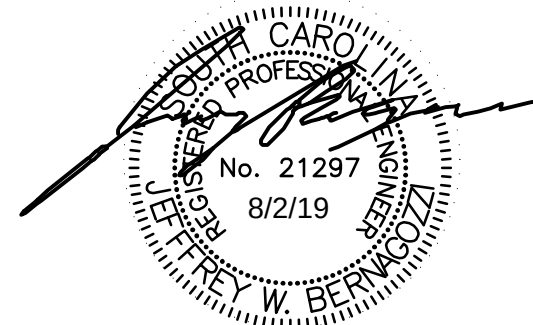
project name  
**BARRINGER HOUSE  
RENOVATIONS**

State project number

PROJECT # FP00000285

GMK project number

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AUGUST 2, 2019

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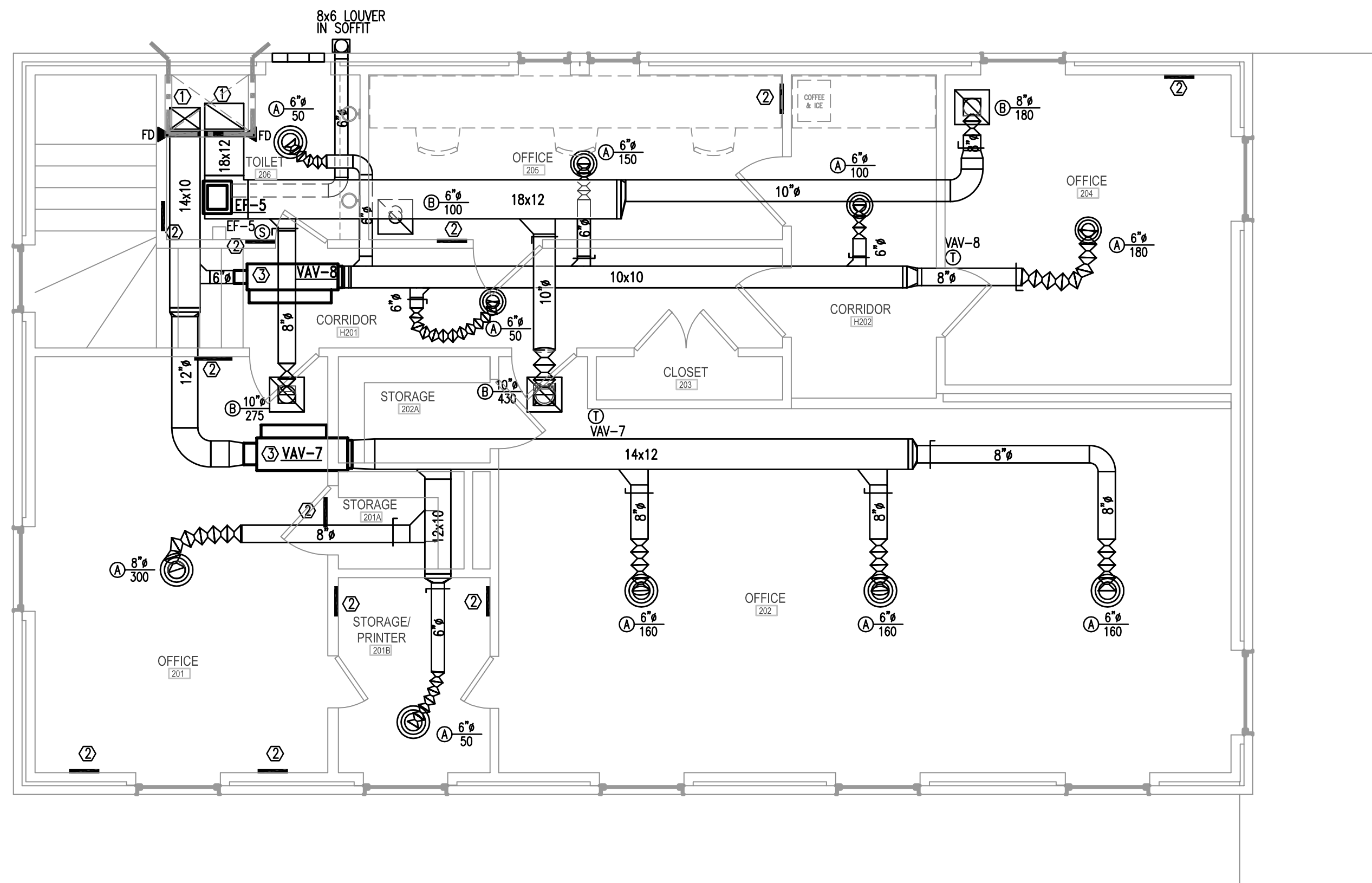


sheet title  
**HVAC  
RENOVATION  
SECOND FLOOR PLAN**

sheet number

## M2.2

*drawn by* JWB  
*checked by* JDR



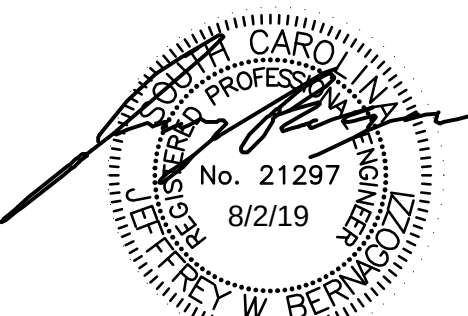
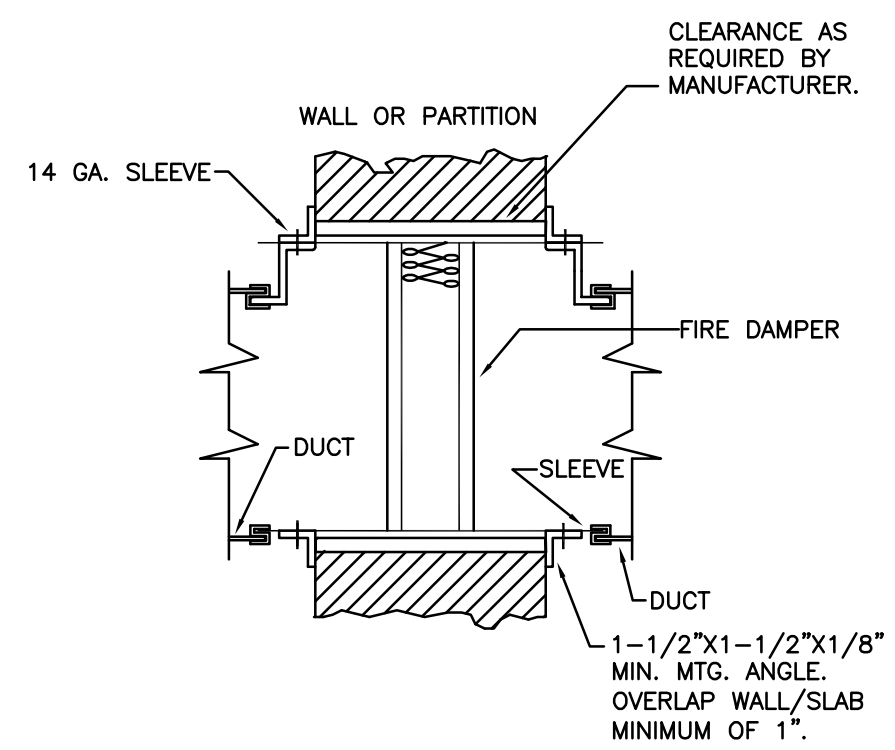
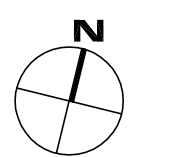
1 SECOND FLOOR LEVEL – HVAC RENOVATION  
1/4"=1'-0"

- RENOVATION KEYNOTES:**
- ① NEW DUCT UP FROM BELOW. INSTALL FIRE DAMPER WHERE DUCTS LEAVE CHASE IN ATTIC.
  - ② EXISTING GRILLE TO BE ABANDONED IN PLACE. CONTRACTOR SHALL CAP DUCT AS NEAR AS POSSIBLE TO GRILLE. IF DUCT IS CAPPED DIRECTLY BEHIND GRILLE FACE. SHEET METAL CAP MUST BE PAINTED BLACK SO AS NOT TO BE VISIBLE.
  - ③ VAV BOXES SHALL BE OWNER FURNISHED AND CONTRACTOR INSTALLED

REQUIRED WORK SEQUENCE:

- A. Construct Work in stages during construction period:
- 1. Stage 1: [2nd Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2017.
  - 2. Stage 2: [1st Floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate construction schedule and operations with Owner.
- C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.

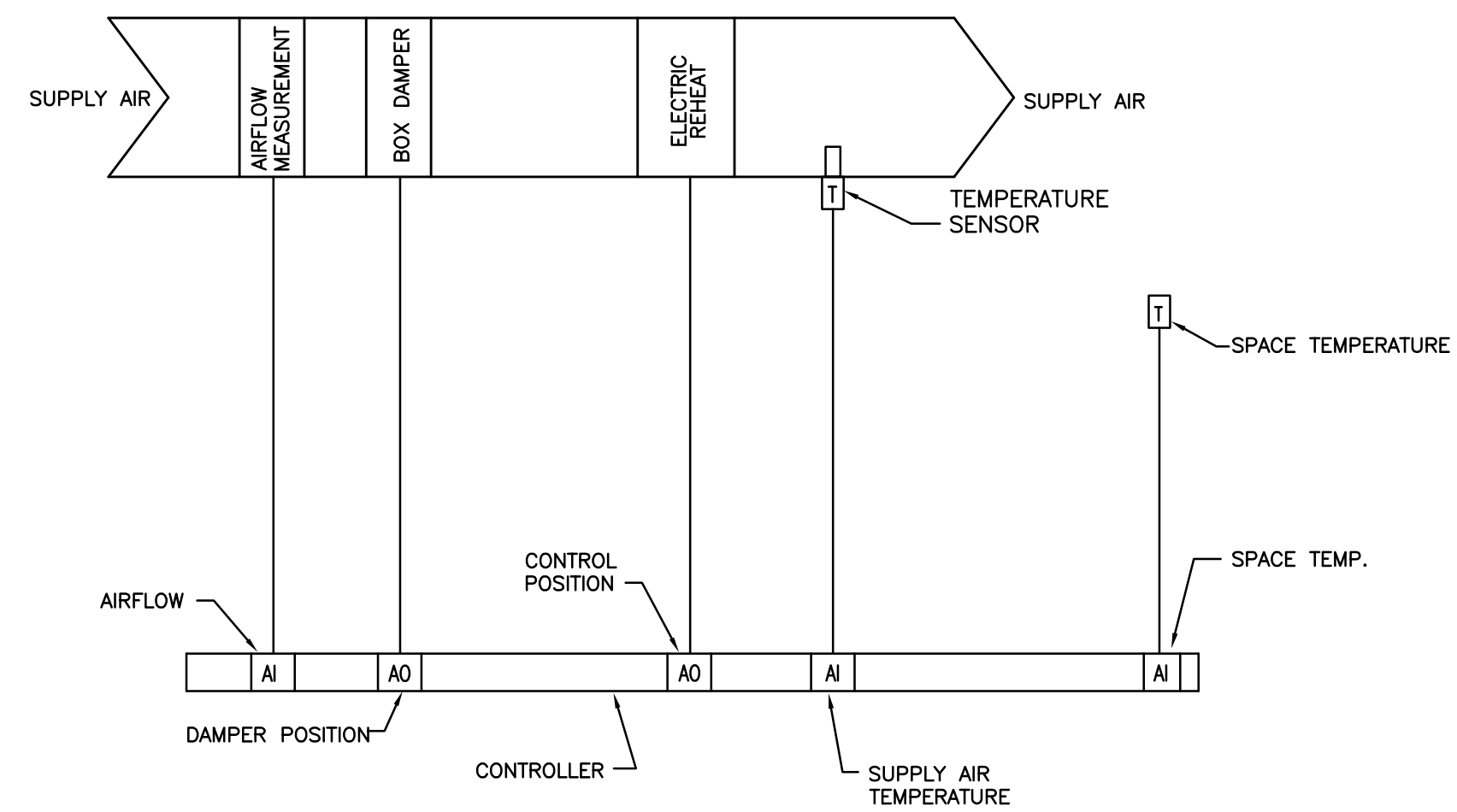


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## 7 VERTICAL FIRE DAMPER DETAIL

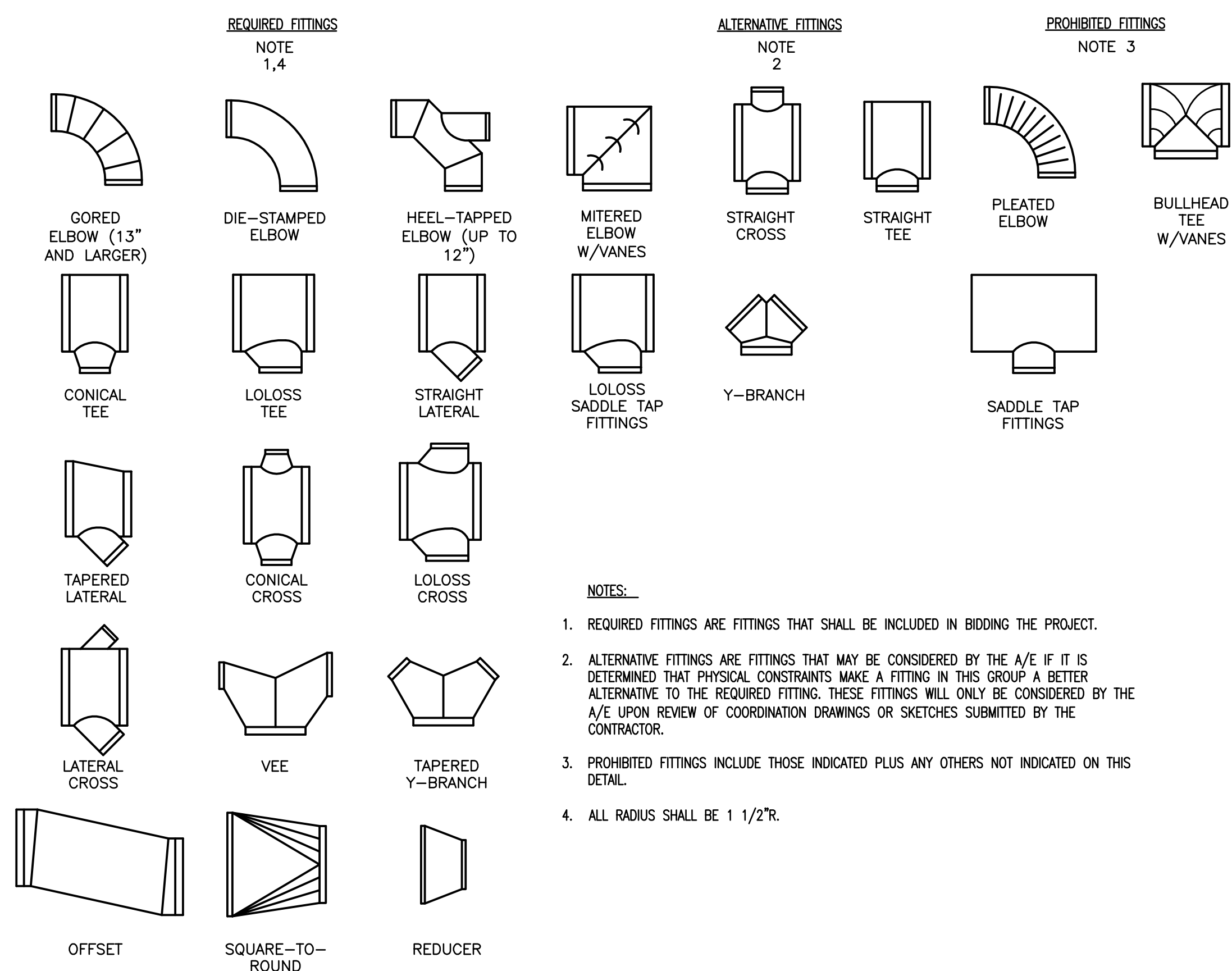
NOTES:

1. PROVIDE TYPE "C" DYNAMIC FIRE DAMPERS IN ALL T, H, RH, THRU & C WALLS, SLABS, AND PARTITIONS SHOWN ON ARCH. AND MECH. DRAWINGS.
2. PROVIDE DUCT ACCESS DOORS, ACCESS DOORS FOR ROOF ACCESS, ACCESS DOORS FOR INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING MECHANISMS. ACCESS DOOR SHALL BE LABELED "FIRE DAMPER". THE LETTERS SHALL NOT BE LESS THAN 0.5 INCHES IN HEIGHT.
3. PROVIDE ALL CEILING, FLOOR, AND WALL ACCESS DOORS NECESSARY FOR ACCESS TO FIRE DAMPER.
4. FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF THE CODE AND BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS. ONLY FIRE DAMPERS LABELED "FIRE DAMPER" SHALL BE INSTALLED IN HEATING, VENTILATION AND AIR-CONDITIONING SYSTEMS, DESIGNED TO OPERATE WITH FANS ON.
5. BLANKET INSULATION SHALL BE INSTALLED OVER ANGLES AND SEALED TO WALL.
6. DAMPER BLADES SHALL BE LOCATED OUT OF THE AIR STREAM.

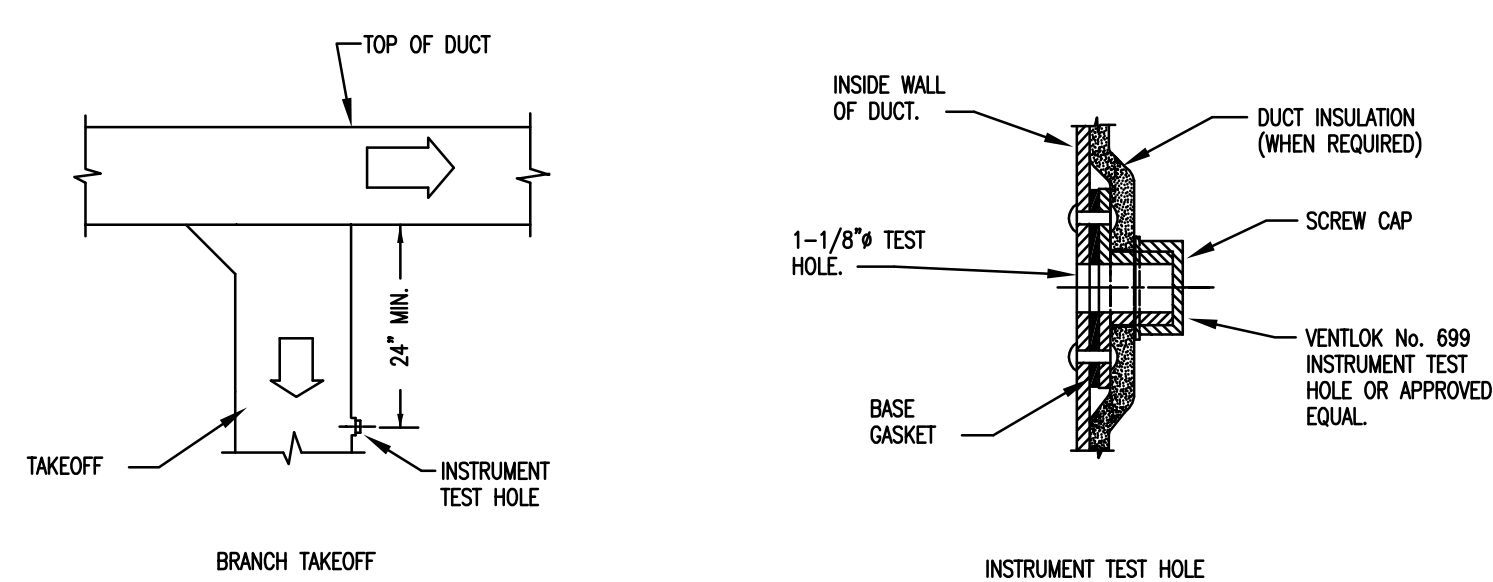


#### 4 TERMINAL BOX CONTROL DIAGRAM

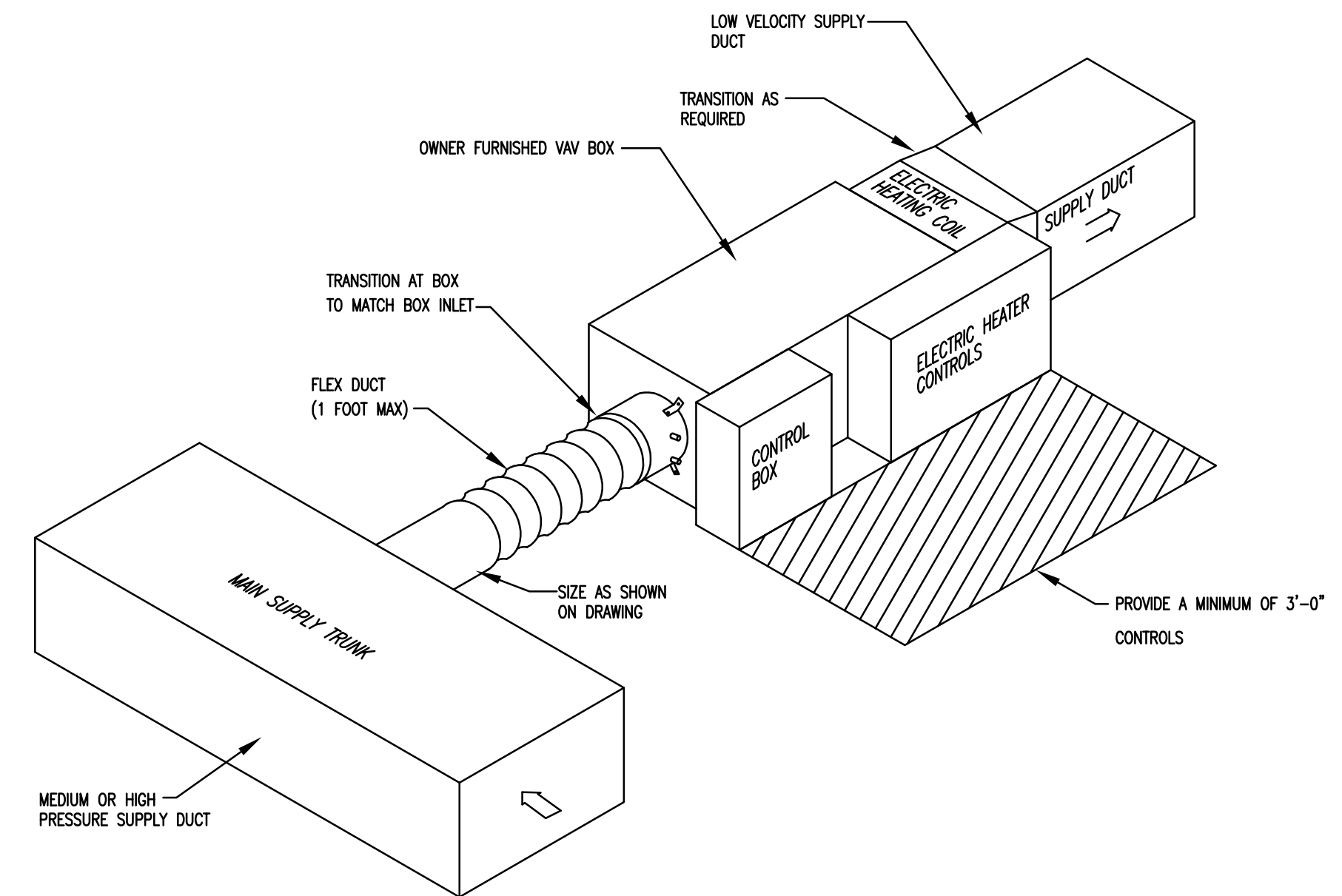
- NOTES:
1. TYPICAL FOR ALL VAV AND CAV BOXES



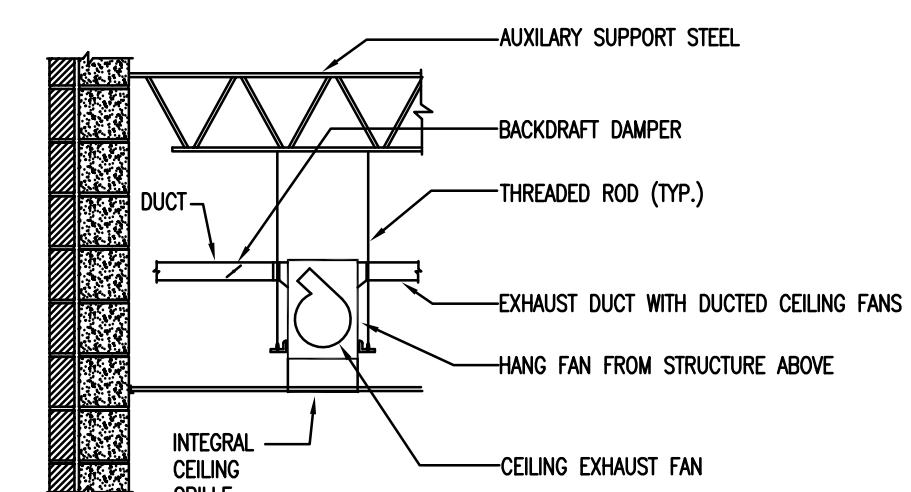
## 5 ROUND DUCT FITTINGS



## 6 TYPICAL LOW PRESSURE DUCT DETAILS

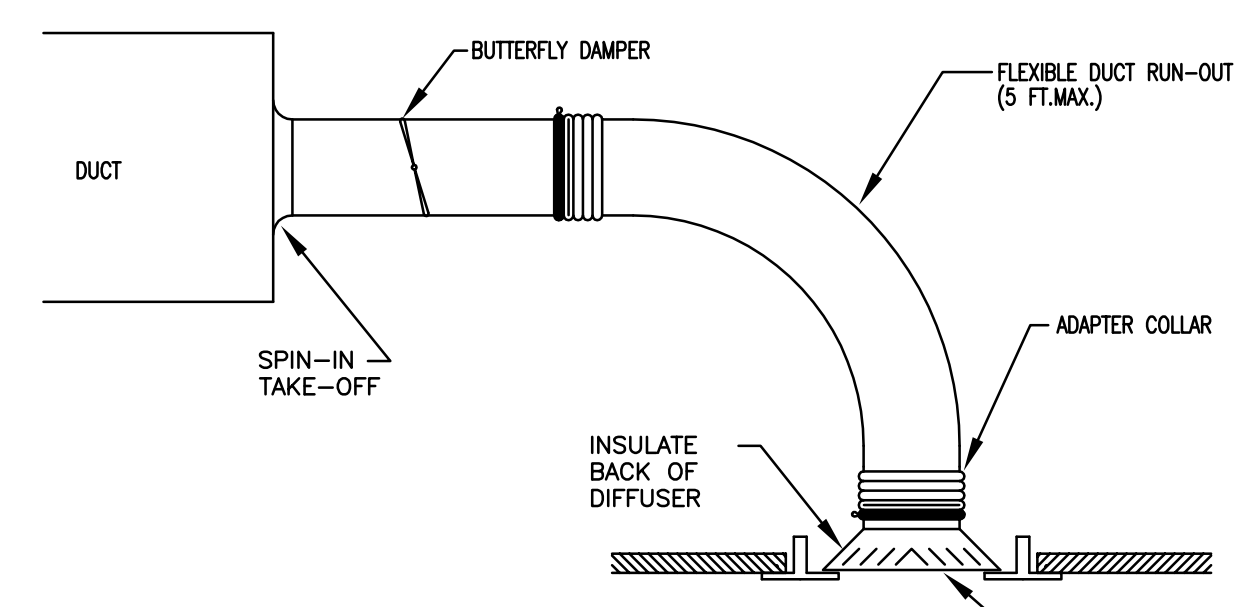


1 SHUT OFF TYPE VAV OR CAV DETAIL  
NTS



2 CEILING/CABINET EXHAUST FAN DETAIL

1. FAN AND PARTS REQUIRING MAINTENANCE SHALL SWING DOWN AND BE FULLY SERVICABLE.
2. DUCT CEILING EXHAUST FAN SIMILAR.



3 FLEXIBLE DUCT  
CONNECTION TO GRILLE  
NTS

- NOTES:
1. PROVIDE MIN OF 3 DUCT DIAMETERS BETWEEN TAPS OR AFTER ELBOWS.



| HVAC LEGEND |                                                         |
|-------------|---------------------------------------------------------|
|             | SUPPLY DIFFUSER                                         |
|             | RETURN / EXHAUST                                        |
|             | FIRE DAMPER IN FIRE-RATED WALL                          |
|             | THERMOSTAT                                              |
|             | CONNECT TO EXISTING                                     |
|             | CHILLED WATER SUPPLY                                    |
|             | CHILLED WATER RETURN                                    |
|             | FLEXIBLE DUCT                                           |
|             | CHANGE IN DUCT ELEVATION                                |
|             | DUCT TURNING DOWN                                       |
|             | DUCT TURNING UP                                         |
|             | 2-WAY CONTROL VALVE                                     |
|             | 3-WAY CONTROL VALVE                                     |
|             | NECK SIZE<br>DIFFUSER, GRILLE, LOUVER, OR REGISTER TYPE |

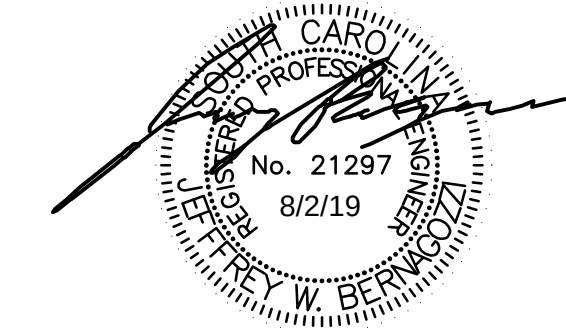
- MECHANICAL DEMOLITION NOTES
- DRAWINGS SHOW GENERAL INTENT OF DEMOLITION. QUANTITIES, LOCATIONS, SIZES AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF SYSTEM INSTALLED AND DOES NOT NECESSARILY REPRESENT EXACT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY BEFORE BIDDING.
  - DEMOLITION OF EQUIPMENT, SYSTEMS, AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PADS, HANGERS, INSULATION, CONTROLS, STARTERS, ACCESSORIES, AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM.
  - WHEN PARTIAL DEMOLITION OF A SYSTEM IS INDICATED, THE PART OF THE SYSTEM SHOWN TO REMOVED SHALL BE REMOVED TO THE ACTIVE MAIN OR BRANCH IF NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM. THE ACTIVE MAIN OR BRANCH SHALL BE REPAIRED TO MATCH NEW INSTALLATION AS MUCH AS PRACTICAL. IF SYSTEM IS INSULATED, INSULATION SHALL BE PATCHED AND FINISHED REPAIR (IE: VAPOR BARRIER, COATING, ETC.)
  - PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES, AND FINISHES. PATCHES SHALL MATCH EXISTING STRUCTURE, FIRE RATING AND FINISH.
  - ALL OPENINGS CREATED BY THE ABANDONMENT OR REMOVAL OF EXISTING SYSTEMS SHALL BE PATCHED.
  - ALL WALLS, ROOFS, SLABS, STRUCTURES, AND FINISHES WHOSE FINISH IS IRREGULAR DUE TO THE REMOVAL OF SYSTEMS, SUPPORTS, PADS, ACCESSORIES, AND APPURTENANCES SHALL BE PATCHED.
  - ALL FINISHES SHALL MATCH EXISTING FINISH. WHEN FINISH OBVIOUSLY DOES NOT MATCH EXISTING FINISH SUCH AS SHADE OF PAINT, AGE OF FINISH, ETC., THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM OF 45 DEGREES.
  - REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER PRACTICAL. IF NOT, SYSTEM (IE: PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 1 INCH BELOW SURFACE.

- MECHANICAL GENERAL NOTES
- DO NOT SCALE DRAWINGS; SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
  - LOCATE ALL THERMOSTATS, HUMIDISTATS AND SWITCHES 4'-0" ABOVE FINISH FLOOR; ALIGN WITH LIGHT SWITCHES.
  - DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
  - CORRECT SETTINGS ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.
  - RUNOUTS SHALL PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 30 FEET.
  - AIR DISTRIBUTION SYSTEMS WITH MORE THAN ONE BRANCH, OR MULTIPLE OUTLETS ON A BRANCH, SHALL HAVE VOLUME DAMPERS TO BALANCE AIR FLOWS. SPIN-IN FITTINGS ARE PERMITTED FOR CONNECTING FLEX DUCT TO BRANCH OR TRUNK DUCTS WHERE FLEX DUCTS ARE INDICATED. IF FLEX DUCT CANNOT BE CONNECTED WITH A SPIN-IN, A HARD DUCTED TAKEOFF MUST BE PROVIDED.
  - 45 DEGREE TAKEOFFS SHALL BE USED ON ALL HARD DUCTED SUPPLY BRANCHES.
  - PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, DUCT HEATERS, AIR VOLUME CONTROLLERS, FAN COIL UNITS, EXHAUST FANS, SUPPLY FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES.
  - BLANK-OFF ALL UNUSED PORTIONS OF LOUVERS (WHICH HAVE MECHANICAL DUCT CONNECTIONS) WITH 20 GAGE GALVANIZED SHEET METAL.
  - ALL DUCT IS GALVANIZED SHEET METAL EXCEPT AS NOTED.
  - DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
  - INTAKES FOR AIR HANDLING EQUIPMENT SHALL BE A MINIMUM OF TEN FEET AWAY FROM ANY EXHAUST OR VENT.
  - AIR DISTRIBUTION UNITS SHALL HAVE TRIM REQUIRED FOR FINISHED SERVICE.
  - COORDINATE ORIENTATION OF SUPPLY AND RETURN PIPING BEFORE FABRICATION.
  - PROVIDE DIELECTRIC FITTINGS AT ALL LOCATIONS WHERE DISSIMILAR METALS ARE JOINED IN PIPING AND DUCT SYSTEMS.
  - ALL SUPPLY AND RETURN DUCTS SHALL HAVE TURNING VANES.

| VARIABLE AIR VOLUME TERMINAL SCHEDULE (OWNER FURNISHED)                       |                 |                 |                        |                                                                     |    |        |                     |                          |              |           |       |
|-------------------------------------------------------------------------------|-----------------|-----------------|------------------------|---------------------------------------------------------------------|----|--------|---------------------|--------------------------|--------------|-----------|-------|
| TAG NO.                                                                       | MAXIMUM BOX CFM | MINIMUM BOX CFM | MIN. INLET S.P. (W.C.) | REHEAT COIL                                                         |    |        | INLET SIZE (INCHES) | ELECTRICAL (VOLTS/PHASE) | MANUFACTURER | MODEL NO. | NOTE  |
|                                                                               |                 |                 |                        | LAT                                                                 | KW | STAGES |                     |                          |              |           |       |
| EXIST. VW-5                                                                   | 1700            | 550             |                        |                                                                     |    |        |                     |                          | TRANE        | VCEF12    | 2     |
| VW-7                                                                          | 830             | 400             | 1"                     | 90'                                                                 | 5  | 2      | 10"                 | 208/3                    | TRANE        | VCEF10    | 1,4,5 |
| VW-8                                                                          | 530             | 300             | 1"                     | 86'                                                                 | 3  | 1      | 6"                  | 208/3                    | TRANE        | VCEF06    | 1,4,5 |
| 1. ELECTRIC ACTUATOR<br>2. RE-BALANCE EXIST. BOX CFM'S<br>3. SOUND ATTENUATOR |                 |                 |                        | 4. SINGLE POINT POWER CONNECTION WITH DISCONNECT<br>5. ACCESS PANEL |    |        |                     |                          |              |           |       |

| EXHAUST FAN SCHEDULE                                                                 |         |                 |                     |                                                                  |     |                                                               |              |           |            |
|--------------------------------------------------------------------------------------|---------|-----------------|---------------------|------------------------------------------------------------------|-----|---------------------------------------------------------------|--------------|-----------|------------|
| TAG                                                                                  | TYPE    | CAPACITY<br>CFM | E.S.P.<br>(IN. WG.) | MOTOR                                                            |     | ELECTRICAL<br>(VOLTS/PHASE)                                   | MANUFACTURER | MODEL NO. | NOTES      |
|                                                                                      |         |                 |                     | WATTS                                                            | RPM |                                                               |              |           |            |
| EF-5                                                                                 | CEILING | 50              | .375                | 128                                                              | 636 | 115/1                                                         | GREENHECK    | SP-150    | 2,3,8,9,10 |
|                                                                                      |         |                 |                     |                                                                  |     |                                                               |              |           |            |
| 1. MOTORIZED BACKDRAFT DAMPER<br>2. GRAVITY BACKDRAFT DAMPER<br>3. DISCONNECT SWITCH |         |                 |                     | 4. BRIDSCREEN<br>5. ALUMINUM ROOF CURB<br>6. MOTORSIDE FAN GUARD |     | 10. ALTERNATE 3<br>7. FILTER<br>8. RHEOSTAT<br>9. WALL SWITCH |              |           |            |

| AIR DISTRIBUTION SCHEDULE                                                          |                                   |          |             |         |          |                 |              |       |  |
|------------------------------------------------------------------------------------|-----------------------------------|----------|-------------|---------|----------|-----------------|--------------|-------|--|
| TAG                                                                                | DESCRIPTION                       | NECK     | MODULE SIZE | MOUNT   | CONSTR.  | WFOR            | MODEL        | NOTES |  |
| A                                                                                  | ROUND ADJUSTABLE                  | AS SHOWN | ----        | SURFACE | ALUMINUM | HART AND COOLEY | SERIES 20    | 2,3,4 |  |
| B                                                                                  | PERFORATED CEILING RETURN/EXHAUST | AS SHOWN | 12x12       | SURFACE | ALUMINUM | PRICE           | SERIES APOOR | 3,5   |  |
| 1. FURNISH WITH OPPOSED BLADE DAMPER<br>2. 4-WAY DEFLECTION UNLESS NOTED OTHERWISE |                                   |          |             |         |          |                 |              |       |  |
| 3. BAKED ENAMEL OFF-WHITE FINISH<br>4. FINISH SELECTED BY ARCHITECT                |                                   |          |             |         |          |                 |              |       |  |



| number | item | date |
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USC CAMPUS PLANNING AND  
CONSTRUCTION  
1300 PICKENS STREET  
COLUMBIA, SOUTH CAROLINA 29208

project name  
**BARRINGER HOUSE  
RENOVATIONS**

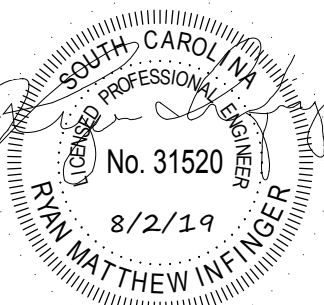
State project number

PROJECT # FP00000285

GMK project number

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## CONSTRUCTION DOCUMENTS

date  
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key plan



sheet title

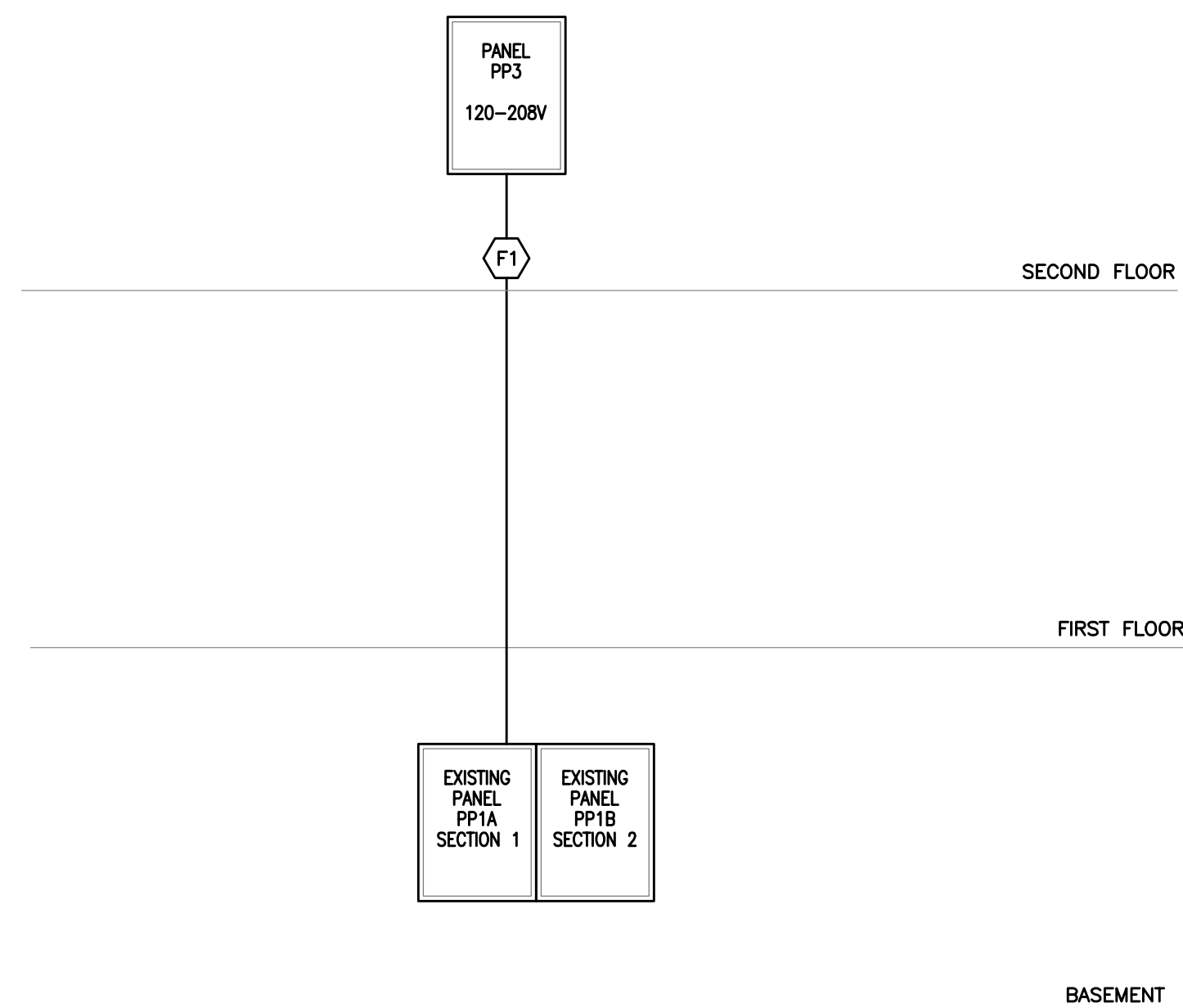
## ELECTRICAL PANEL SCHEDULES & RISER DIAGRAMS

sheet number

## E0.1

drawn by RM

checked by RM



POWER RISER DIAGRAM KEYNOTES:

**F1** SEE PANEL SCHEDULE THIS SHEET FOR PANEL CONDUCTOR SIZING.

### POWER RISER DIAGRAM

NO SCALE

| SECTION 1                                                                                                              |                          |                 |       |                      |     |                         |        |       |       |      |      |       |     |                         |       |      |
|------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|-------|----------------------|-----|-------------------------|--------|-------|-------|------|------|-------|-----|-------------------------|-------|------|
| NAME                                                                                                                   |                          | PP1A (EXISTING) |       | BUS AMPS : 400A      |     |                         |        |       |       |      |      |       |     |                         |       |      |
| SYSTEM                                                                                                                 |                          | NORMAL          |       | 400A MAIN BREAKER    |     | SERVICE ENTRANCE RATED: |        |       |       |      |      |       |     |                         |       |      |
|                                                                                                                        |                          | SQUARE D, N600  |       | 100-200V/50/54KVA/3N |     |                         |        |       |       |      |      |       |     |                         |       |      |
| INTERFERRING SYSTEM :                                                                                                  |                          | 22K AC          |       | MOUNTING : SURFACE   |     |                         |        |       |       |      |      |       |     |                         |       |      |
| CKT                                                                                                                    | CIRCUIT NAME             | WIR             | COND  | LOAD                 | WIR | COND                    | POLARS | PHASE | POLES | BKBS | LOAD | COND  | WIR | CIRCUIT NAME            | PANEL | PAGE |
| 1                                                                                                                      | WV-1                     | 1/0             | 1/2   | 7.1                  | 1/1 | 1/2                     | A      | B     | 2     | 100  | 7.6  | 1/2   | 3   |                         |       |      |
| 2                                                                                                                      |                          |                 |       |                      |     |                         | A      | B     | 2     | 100  | 7.6  | 1/2   | 3   |                         |       |      |
| 3                                                                                                                      |                          |                 |       |                      |     |                         | A      | B     | 2     | 100  | 7.6  | 1/2   | 3   |                         |       |      |
| 4                                                                                                                      | WATER HEATER WH-1        | 4               | 1-1/4 | 3.0                  | 7.0 | 1/2                     | A      | B     | 2     | 100  | 4.7  | 1-1/2 | 3   | PANEL PP3               |       |      |
| 5                                                                                                                      |                          |                 |       |                      |     |                         | A      | B     | 2     | 100  | 4.7  | 1-1/2 | 3   |                         |       |      |
| 6                                                                                                                      |                          |                 |       |                      |     |                         | A      | B     | 2     | 100  | 4.7  | 1-1/2 | 3   |                         |       |      |
| 7                                                                                                                      |                          |                 |       |                      |     |                         | A      | B     | 2     | 100  | 4.7  | 1-1/2 | 3   |                         |       |      |
| 8                                                                                                                      |                          |                 |       |                      |     |                         | A      | B     | 2     | 100  | 4.7  | 1-1/2 | 3   |                         |       |      |
| 9                                                                                                                      |                          |                 |       |                      |     |                         | A      | B     | 2     | 100  | 4.7  | 1-1/2 | 3   |                         |       |      |
| 10                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 100  | 4.7  | 1-1/2 | 3   |                         |       |      |
| 11                                                                                                                     | WV-6                     | 1/0             | 1/2   | 7.2                  | 3.0 | 3/0                     | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  | WV-5                    |       |      |
| 12                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 13                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 14                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 15                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 16                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 17                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 18                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 19                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 20                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 25   | 5.1  | 1/2   | 10  |                         |       |      |
| 21                                                                                                                     | WH-1                     | 1/2             | 1/2   | 1.7                  | 1.7 | 2/0                     | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  | WV-2                    |       |      |
| 22                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 23                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 24                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 25                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 26                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 27                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 28                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 29                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 30                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 1.3  | 1/2   | 12  |                         |       |      |
| 31                                                                                                                     | CHILLED WATER PUMP CHP-1 | 1/2             | 1/2   | 0.8                  | 0.8 | 2/0                     | A      | B     | 2     | 15   | 0.5  | 1/2   | 12  | WV-1                    |       |      |
| 32                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 0.5  | 1/2   | 12  |                         |       |      |
| 33                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 0.5  | 1/2   | 12  |                         |       |      |
| 34                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 15   | 0.5  | 1/2   | 12  |                         |       |      |
| 35                                                                                                                     | CHILLED WATER PUMP CHP-2 | 1/2             | 1/2   | 0.8                  | 0.8 | 2/0                     | A      | B     | 2     | 40   | —    | 3/4"  | 6"  | SURGE PROTECTION DEVICE |       |      |
| 36                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 40   | —    | 3/4"  | 6"  |                         |       |      |
| 37                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 40   | —    | 3/4"  | 6"  |                         |       |      |
| 38                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 40   | —    | 3/4"  | 6"  |                         |       |      |
| 39                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 40   | —    | 3/4"  | 6"  |                         |       |      |
| 40                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 40   | —    | 3/4"  | 6"  |                         |       |      |
| 41                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 40   | —    | 3/4"  | 6"  |                         |       |      |
| 42                                                                                                                     |                          |                 |       |                      |     |                         | A      | B     | 2     | 40   | —    | 3/4"  | 6"  |                         |       |      |
| CONNECTED LOAD, THIS SECTION (KVA):                                                                                    |                          | A               |       | 36.1                 |     | B                       |        | 37.5  |       | C    |      | 33.2  |     |                         |       |      |
| CONNECTED LOAD, BOTH SECTIONS (KVA):                                                                                   |                          | A               |       | 39.1                 |     | B                       |        | 41.4  |       | C    |      | 37.0  |     |                         |       |      |
| TOTAL (KVA):                                                                                                           |                          | A               |       | 117.5                |     | B                       |        | 122.9 |       | C    |      | 113.2 |     |                         |       |      |
| DEMAND (A):                                                                                                            |                          | A               |       | 328                  |     | B                       |        | 338   |       | C    |      | 328   |     |                         |       |      |
| * PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE. NEW CIRCUIT BREAKERS TO MATCH EXISTING TYPE AND FAULT CURRENT RATING. |                          |                 |       |                      |     |                         |        |       |       |      |      |       |     |                         |       |      |
| SECTION 1 OF 2.2 SECTION PANELBOARD, PROVIDE EXISTING TRUSS AND FULL SIZE FEEDER EXTENSION TO SECTION 2.               |                          |                 |       |                      |     |                         |        |       |       |      |      |       |     |                         |       |      |
| "GF" DENOTES GROUND FAULT TYPE CIRCUIT BREAKER.                                                                        |                          |                 |       |                      |     |                         |        |       |       |      |      |       |     |                         |       |      |

|                     |                               |                  |      |                            |                  |     |      |      |                  |              |                       |
|---------------------|-------------------------------|------------------|------|----------------------------|------------------|-----|------|------|------------------|--------------|-----------------------|
| NAME                |                               | : PP3            |      | BUS AMPS : 100A            |                  |     |      |      |                  |              |                       |
| SYSTEM              |                               | : NORMAL         |      | MAIN : MLD                 |                  |     |      |      |                  |              |                       |
| TYPE                |                               | : SQUARE D, NOOD |      | VOLTAGE : 120-208/36/48/5N |                  |     |      |      |                  |              |                       |
| INTERLOCKING RATING |                               | 200/4K           |      | SURFACE MOUNTING           |                  |     |      |      |                  |              |                       |
| CCT                 | CIRCUIT NAME                  | WIR              | COND | LOAD                       | BKR/POLES/PHASES | WIR | COND | LOAD | BKR/POLES/PHASES | CIRCUIT NAME | CCT                   |
| 1                   | WAV-7                         | 12               | 1/2  | 1.7                        | 20               | A   | 15   | 1.0  | 1/2              | 12           | WAV-8                 |
| 2                   |                               |                  |      | 1.7                        |                  | B   |      | 1.0  |                  |              | 2                     |
| 3                   |                               |                  |      | 1.7                        |                  | C   |      | 1.0  |                  |              | 3                     |
| 4                   |                               | 12               | 1/2  | 0.2                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | LINE 2ND FLOOR        |
| 5                   | FF-5                          |                  |      | 0.2                        |                  | B   |      | 0.8  |                  |              | LINE 2ND FLOOR        |
| 6                   | OFFICE                        |                  |      | 0.2                        |                  | C   |      | 0.8  |                  |              | LINE 2ND FLOOR        |
| 7                   | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.8                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | LINE 2ND FLOOR STAIRS |
| 8                   |                               |                  |      | 0.8                        |                  | B   |      | 0.8  |                  |              | LINE 2ND FLOOR STAIRS |
| 9                   | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 10                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 11                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 12                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 13                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 14                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 15                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 16                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 17                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 18                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 19                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 20                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 21                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 22                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 23                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 24                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 25                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 26                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 27                  | RECEPTION OFFICE 2017/STORAGE | 12               | 1/2  | 0.4                        | 20               | A   | 20   | 0.8  | 1/2              | 12           | RECEPTION 1ST         |
| 28                  |                               |                  |      | 0.4                        |                  | B   |      | 0.8  |                  |              | RECEPTION 1ST         |
| 29                  | SPARE                         | -                | -    | -                          | 20               | A   | 20   | -    | -                | -            | SPARE                 |
|                     |                               |                  |      | -                          |                  | B   |      | -    |                  |              | SPARE                 |
|                     |                               |                  |      | -                          |                  | C   |      | -    |                  |              | SPARE                 |

CONNECTED LOAD (KVA): A 4.7 B 4.2 C 5.1

TOTAL (KVA): 14.6

DEMAND (A): 36.9

\* VERIFY WITH OWNER PROVIDED EQUIPMENT REQUIREMENTS.

\* OR AS REQUIRED BY EQUIPMENT BEING INSTALLED.

"K" DENOTES GROUND FAULT TYPE CIRCUIT BREAKER. "W" DENOTES ARC FAULT TYPE CIRCUIT BREAKER.

"C" DENOTES REQUIRED LOCKING PROVISIONS PER NFPA 72.

| SECTION 2          |                          |               |      |               |     |         |       |               |                    |     |
|--------------------|--------------------------|---------------|------|---------------|-----|---------|-------|---------------|--------------------|-----|
| NAME               |                          | BUS AMPS      |      | SEE SECTION 1 |     | VOLTAGE |       | SEE SECTION 1 |                    |     |
| SYSTEM             |                          | MAIN          |      | MLO           |     |         |       |               |                    |     |
|                    |                          | SEE SECTION 1 |      | SEE SECTION 1 |     |         |       |               |                    |     |
| INTER interrupting |                          | SEE SECTION 1 |      | MOUNTING      |     |         |       |               |                    |     |
| CCT                | CIRCUIT NAME             | WIRE          | LOAD | LOAD          | BRK | POLES   | PHASE | POLES         | CRITICAL NAME      | KVA |
| 1                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 001 | 4   |
| 2                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 002 | 4   |
| 3                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 003 | 4   |
| 4                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 004 | 4   |
| 5                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 005 | 4   |
| 6                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 006 | 4   |
| 7                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 007 | 4   |
| 8                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 008 | 4   |
| 9                  | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 009 | 4   |
| 10                 | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 010 | 4   |
| 11                 | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 011 | 4   |
| 12                 | LINE TO TRANSFORMER      | 12            | 12   | 0.3           | 20  |         |       |               | RECEPT. SWITCH 012 | 4   |
| 13                 | OUTDOOR LOAD CENTER PP1C | 4             | 1/4  | 1.8           | OK  |         |       |               | RECEPT. PUMP BP-1  | 18  |
| 14                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 15                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 16                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 17                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 18                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 19                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 20                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 21                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 22                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 23                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 24                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 25                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 26                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 27                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 28                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 29                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 30                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 31                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 32                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 33                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 34                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 35                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 36                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 37                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 38                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 39                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 40                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 41                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 42                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   | 24  |
| 43                 | SPRINKLER                | 12            | 12   | 0.8           |     |         |       |               | OUTDOOR LIGHTING   |     |

|                                                                                              |                    |          |                   |      |     |       |        |     |      |      |      |               |      |
|----------------------------------------------------------------------------------------------|--------------------|----------|-------------------|------|-----|-------|--------|-----|------|------|------|---------------|------|
| NAME                                                                                         | PP2 (EXISTING)     | BUS AMPS | 100A              |      |     |       |        |     |      |      |      |               |      |
| TYPE                                                                                         | NORMAL             | MLO      |                   |      |     |       |        |     |      |      |      |               |      |
| INTERRUPTING RATING                                                                          | SQUARE D, N400     | VOLTAGE  | 100-200V/36.4W/5N |      |     |       |        |     |      |      |      |               |      |
|                                                                                              | 25K AC             | MOUNTING | SURFACE           |      |     |       |        |     |      |      |      |               |      |
| CRKT                                                                                         | CRUIT NAME         | WIRE     | COND              | LOAD | BOX | PHASE | PHASES | BOX | LOAD | COND | WIRE | CRUIT NAME    | CRKT |
| 1                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 109  |
| 2                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 110  |
| 3                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 111  |
| 4                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 112  |
| 5                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 113  |
| 6                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 114  |
| 7                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 115  |
| 8                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 116  |
| 9                                                                                            | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 117  |
| 10                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 118  |
| 11                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 119  |
| 12                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 120  |
| 13                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 121  |
| 14                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 122  |
| 15                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 123  |
| 16                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 124  |
| 17                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 125  |
| 18                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 126  |
| 19                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 127  |
| 20                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 128  |
| 21                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 129  |
| 22                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 130  |
| 23                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 131  |
| 24                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 132  |
| 25                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 133  |
| 26                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 134  |
| 27                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 135  |
| 28                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 136  |
| 29                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 137  |
| 30                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 138  |
| 31                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 139  |
| 32                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 140  |
| 33                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT | 141  |
| 34                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT |      |
| 35                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT |      |
| 36                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT |      |
| 37                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT |      |
| 38                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT |      |
| 39                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT |      |
| 40                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT |      |
| 41                                                                                           | LINS. BRIGHTON 110 | 12       | 1/2               | 0.1  | 50  | A     | (C)    | (C) | 50   | 1/2  | 12   | RECEPT. LIGHT |      |
| CONNECTED LOAD (KVA):                                                                        |                    | A        | 7.2               | B    | 7.6 | C     | 6.2    |     |      |      |      |               |      |
| TOTAL (KVA):                                                                                 |                    | 91.0     |                   |      |     |       |        |     |      |      |      |               |      |
| DEMAND (A):                                                                                  |                    | 58.3     |                   |      |     |       |        |     |      |      |      |               |      |
| * VERIFY WITH OWNER PROVIDED EQUIPMENT REQUIREMENTS.                                         |                    |          |                   |      |     |       |        |     |      |      |      |               |      |
| ** OR AS REQUIRED BY EQUIPMENT BEING INSTALLED.                                              |                    |          |                   |      |     |       |        |     |      |      |      |               |      |
| "GF" DENOTES GROUND FAULT TYPE CIRCUIT BREAKER. "AF" DENOTES ARC FAULT TYPE CIRCUIT BREAKER. |                    |          |                   |      |     |       |        |     |      |      |      |               |      |

**REQUIRED WORK SEQUENCE:**

- REQUIRED WORK SEQUENCE:**
- A. Construct Work** shall be completed during construction period:
1. Stage 1: [2nd Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
  2. Stage 2: [1st Floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
- B. Coordinate** construction schedule and operations with Owner.
- C. Work on the 1st floor that supports the Work on the 2nd floor functionally** (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.







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OWNER



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CONSTRUCTION  
1300 PICKENS STREET  
COLUMBIA, SOUTH CAROLINA 29208

project name  
**BARRINGER HOUSE  
RENOVATIONS**

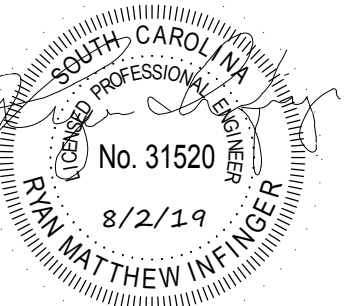
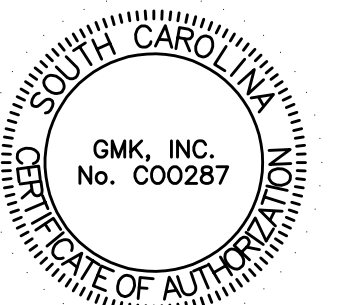
State project number

PROJECT # FP00000285

GMK project number

PROJECT # 16070.03/H27-D339-ID

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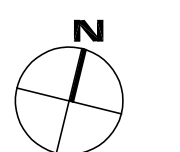
CONSTRUCTION DOCUMENTS

date

AUGUST 2, 2019

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key plan



sheet title

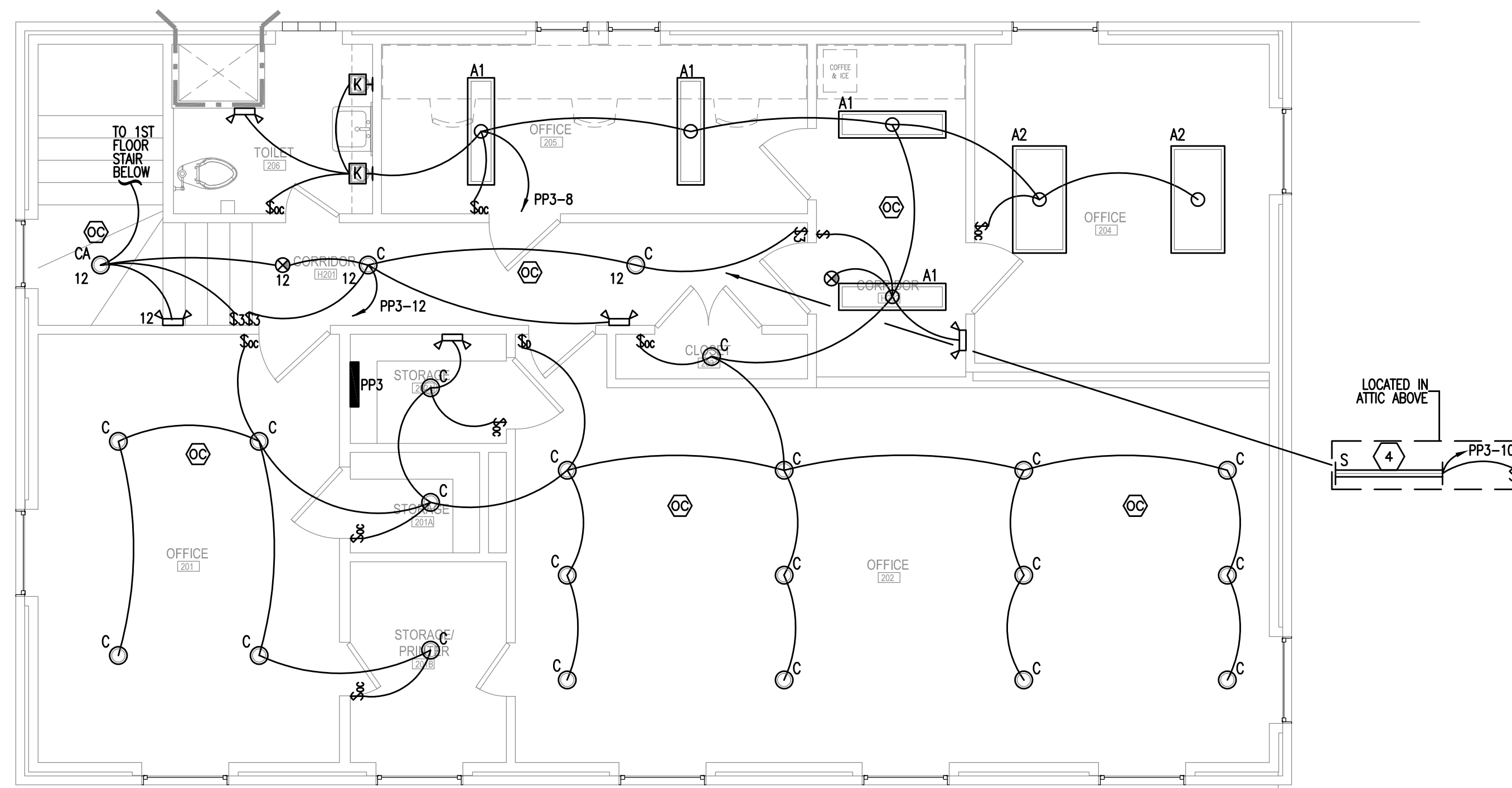
**ELECTRICAL LIGHTING  
FIRST AND SECOND  
FLOOR PLAN**

sheet number

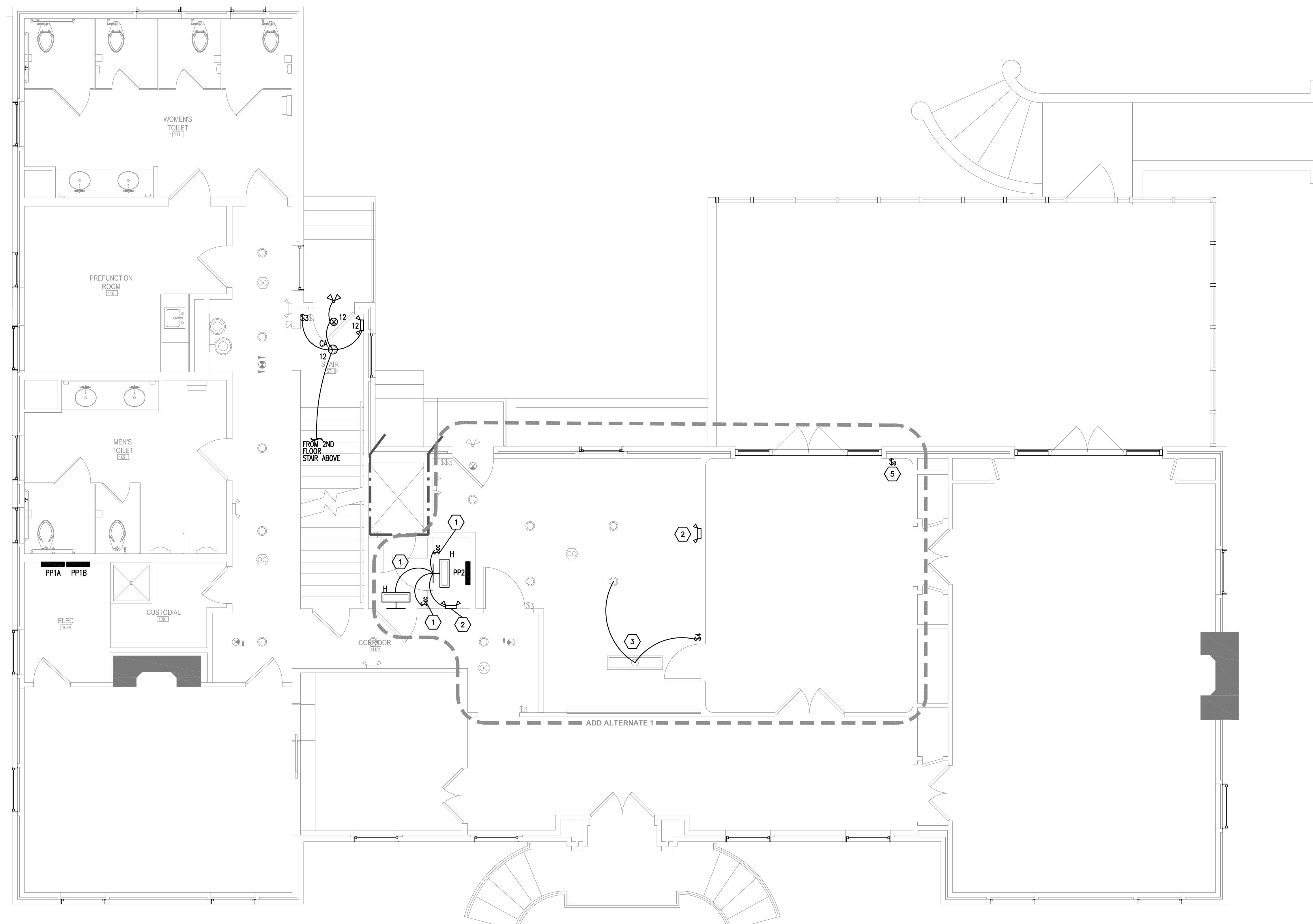
## E2.1

drawn by RMI

checked by RMI



② SECOND FLOOR – ELEC LIGHTING



① FIRST FLOOR – ELEC LIGHTING

GENERAL NOTES NOT KEYED TO PLAN:

EXISTING FIXTURES TO REMAIN AS IS ARE SHOWN LIGHTWEIGHT.

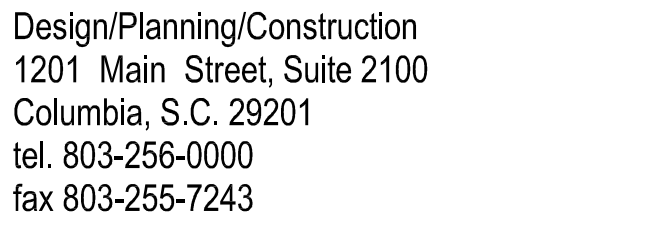
LIGHTING NOTES KEYED TO PLAN:

- 1 RELOCATE EXISTING OCCUPANCY SENSOR SWITCH REMOVED DURING DEMOLITION TO NEW LOCATION SHOWN. THE  
 INTO NEW LIGHTING FIXTURES AND SWITCH AS SHOWN. NEW LIGHTING FIXTURES SHALL BE TIED INTO EXISTING  
 LIGHTING CIRCUIT TP2-1.3.
- 2 RELOCATE EXISTING EMERGENCY FIXTURE REMOVED DURING DEMOLITION TO NEW LOCATION SHOWN. THE FIXTURE  
 INTO EXISTING LIGHTING CIRCUIT TP2-1.3.
- 3 PROVIDE NEW 4 WAY LIGHT SWITCH AND THE EXISTING SURFACE MOUNTED FIXTURE INTO KITCHEN LIGHTING  
 GROUP. ALL FIXTURES IN SPACE SHALL BE CONTROLLED BY THE NEW 4 WAY SWITCH AND EXISTING 3 WAY  
 SWITCHES.
- 4 INSTALL (4) FIXTURES IN ATTIC MOUNT FIXTURES DIRECTLY TO STRUCTURE IN ATTIC.  
 COORDINATE WITH MC TO AVOID ALL MECHANICAL EQUIPMENT THAT MAY INTERFERE  
 WITH PROPER LIGHTING OF SPACE. LOCATE ATTIC LIGHT SWITCH AT ENTRANCE OF  
 ATTIC DOOR. COORDINATE.
- 5 RELOCATE EXISTING LIGHTING SWITCH TO NEW LOCATION SHOWN. EXTEND EXISTING WIRING AND CONDUIT AS  
 REQUIRED.

**REQUIRED WORK SEQUENCE:**

- REQUIRED WORK SEQUENCE:**
- A. Construct Work in stages during construction period:
    1. Stage 1: [1st Floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
    2. Stage 2: [1st Floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
  - B. Coordinate construction schedule and operations with Owner.
  - C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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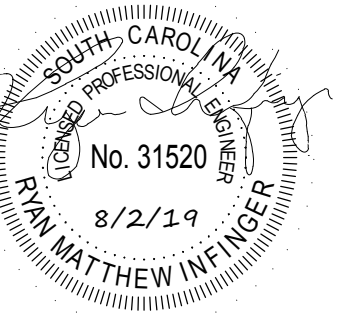
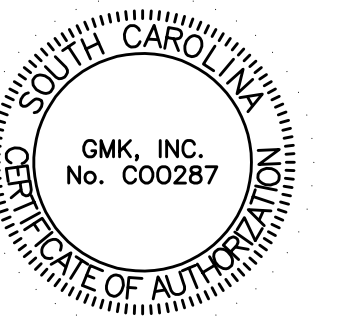
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1300 PICKENS STREET  
COLUMBIA, SOUTH CAROLINA 29208

project name  
**BARRINGER HOUSE  
RENOVATIONS**

State project number  
PROJECT # FP00000285

GMK project number  
PROJECT # 16070.03/H27-D339-ID

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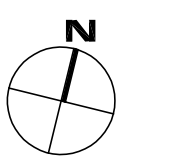


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AUGUST 2, 2019

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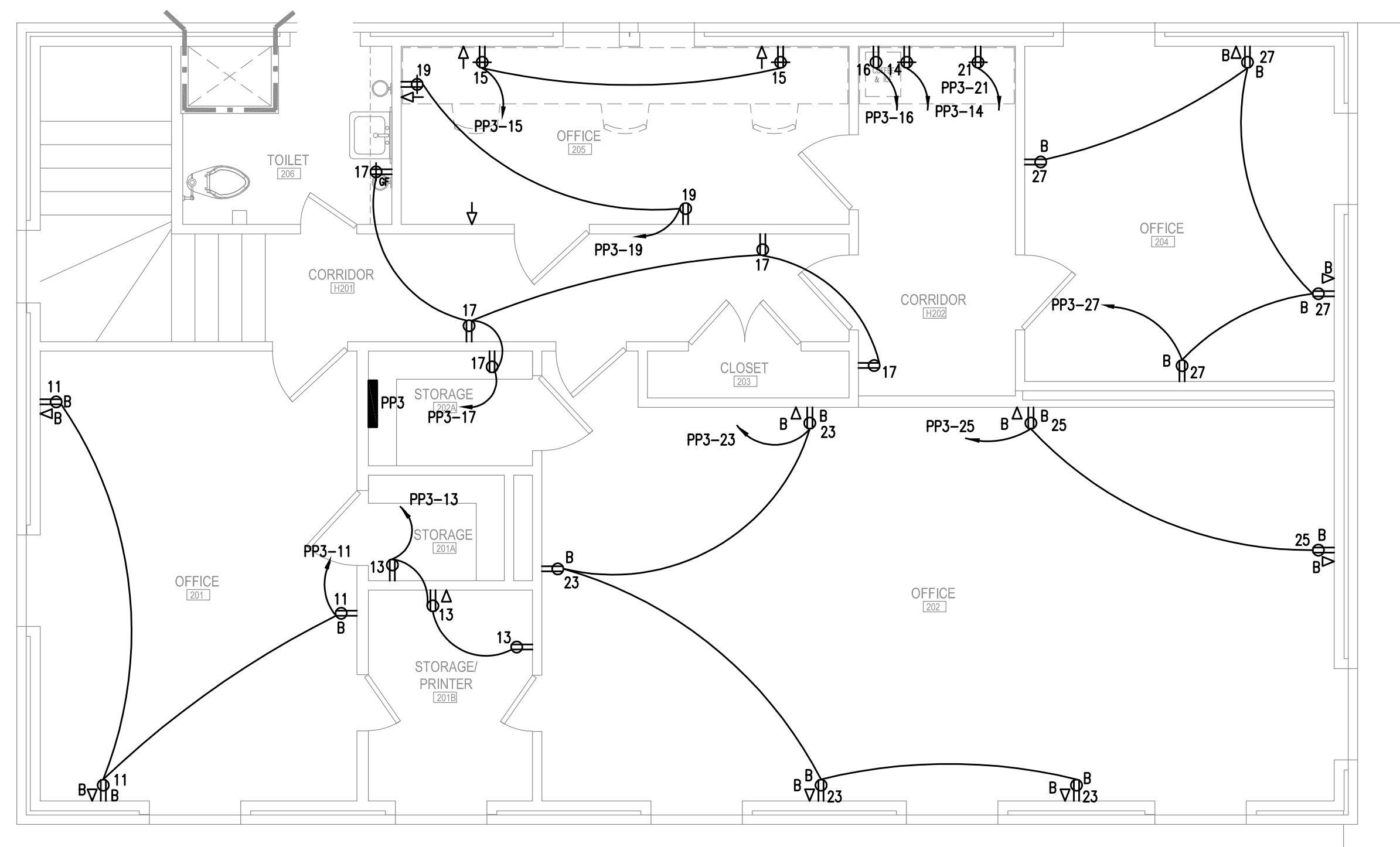


sheet title  
**ELECTRICAL POWER AND  
MECHANICAL WIRING  
FIRST AND SECOND  
FLOOR PLANS**

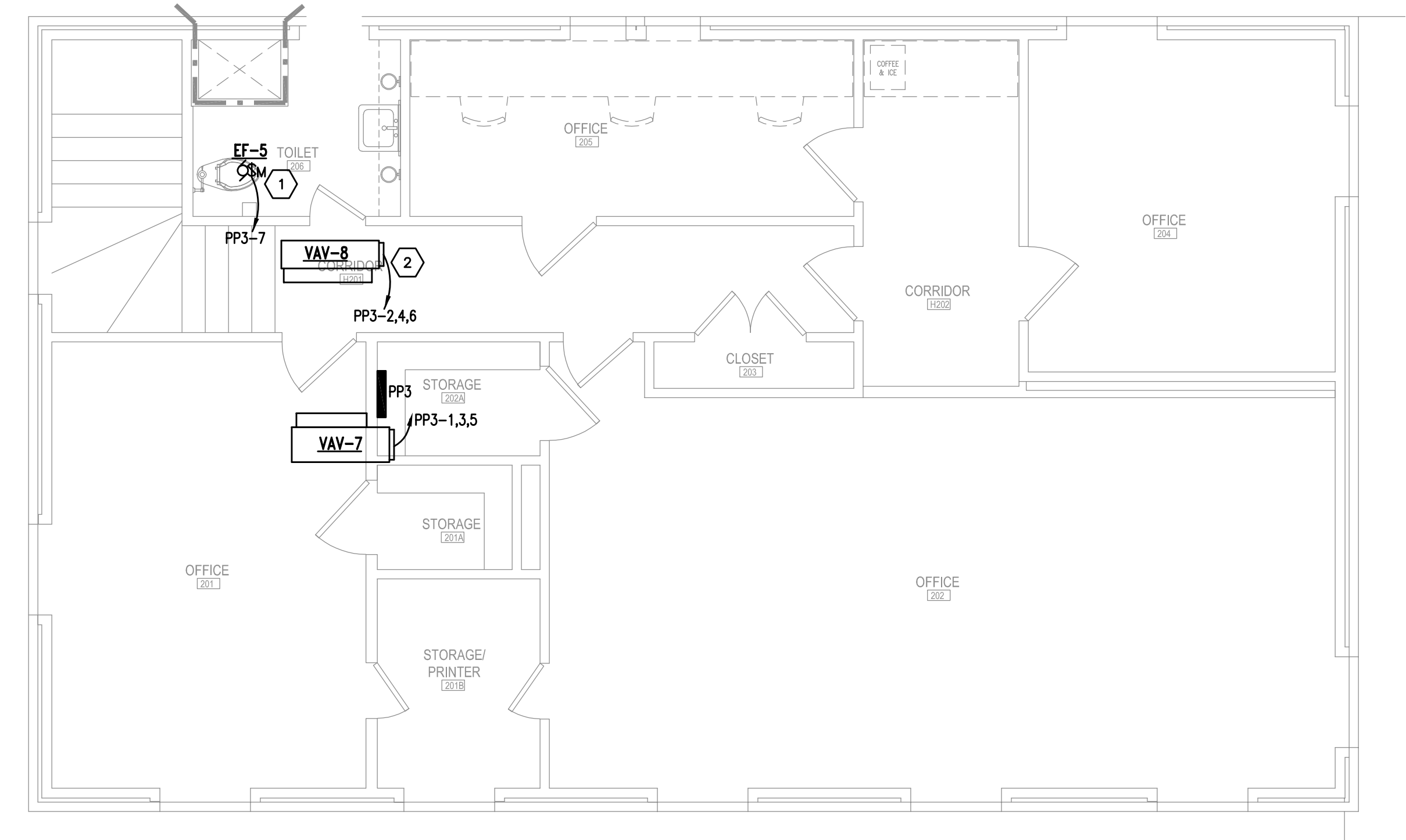
sheet number

### E3.1

drawn by RMI  
checked by RMI



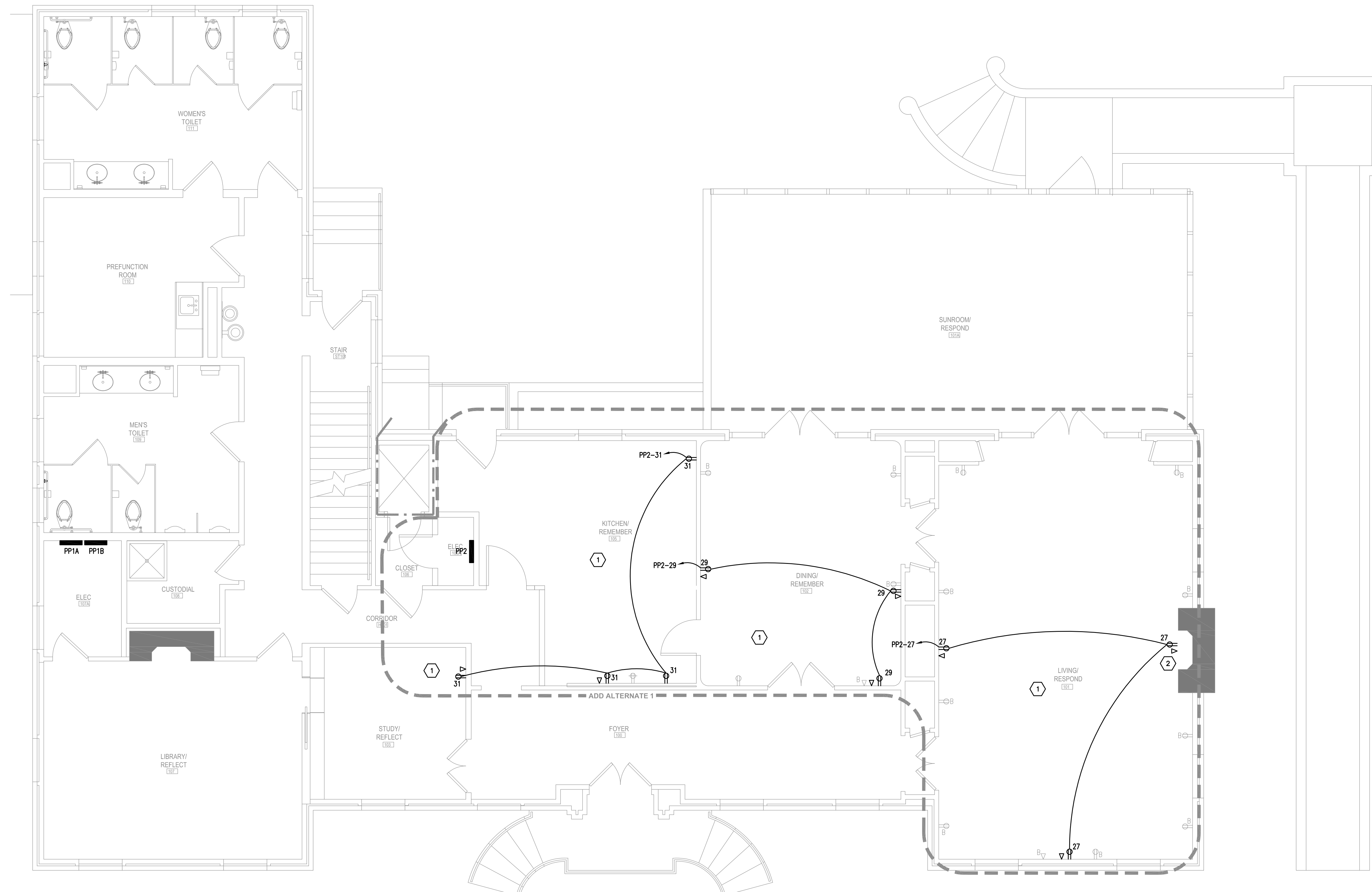
② SECOND FLOOR – POWER PLAN – RENOVATION  
1/4"=1'-0"



③ SECOND FLOOR – MECHANICAL WIRING PLAN – RENOVATION  
1/4"=1'-0"

MECHANICAL WIRING PLAN KEYNOTES:

- 1 CIRCUIT AND SWITCH WITH LIGHTING IN ROOM EXHAUST FAN IS SERVING.
- 2 CIRCUIT TO DISCONNECT SWITCH FURNISHED BY DIV 23. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS AND COORDINATE LOCATION OF DISCONNECT SWITCH WITH MECHANICAL CONTRACTOR. CONNECT AS REQUIRED.



1 FIRST FLOOR - POWER PLAN - RENOVATION  
1/4"=1'-0"

POWER AND COMMUNICATION NOTES NOT KEYED TO PLAN:  
EXISTING DEVICES TO REMAIN AS IS SHOWN LIGHT

POWER AND COMMUNICATION NOTES KEYED TO PLAN:

POWER AND COMMUNICATION NOTES KEYED TO PLAN:

**POWER AND COMMUNICATION NOTES KEYED TO PLAN:**

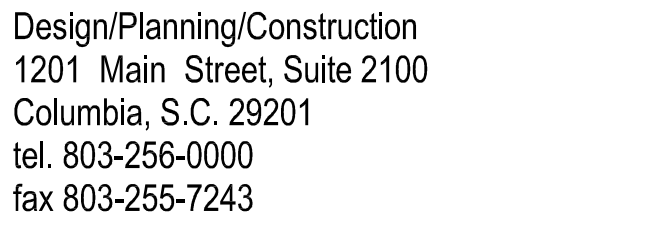
1 ALL RECEPTACLES AND DATA OUTLETS SHALL BE MOUNTED 54" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE. COORDINATE EXACT LOCATION OF ALL RECEPTACLES WITH OWNER PRIOR TO ROUGH IN.

2 MOUNT RECEPTACLE AND DATA OUTLET 24" ABOVE MANTLE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN.

**REQUIRED WORK SEQUENCE:**

- REQUIRED WORK SEQUENCE:**
- A. Construct Work in stages during construction period:
    - 1. Stage 1: [2nd floor alterations]. Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
    - 2. Stage 2: [1st floor alterations (if alternate is accepted)]. Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
  - B. Coordinate construction schedule and operations with Owner.
  - C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.





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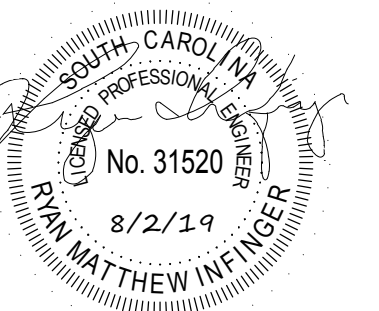
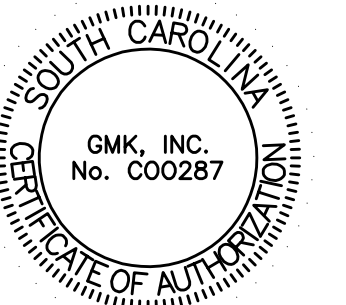
State project number

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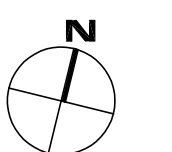
## CONSTRUCTION DOCUMENTS

date

AUGUST 2, 2019

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key plan



sheet title

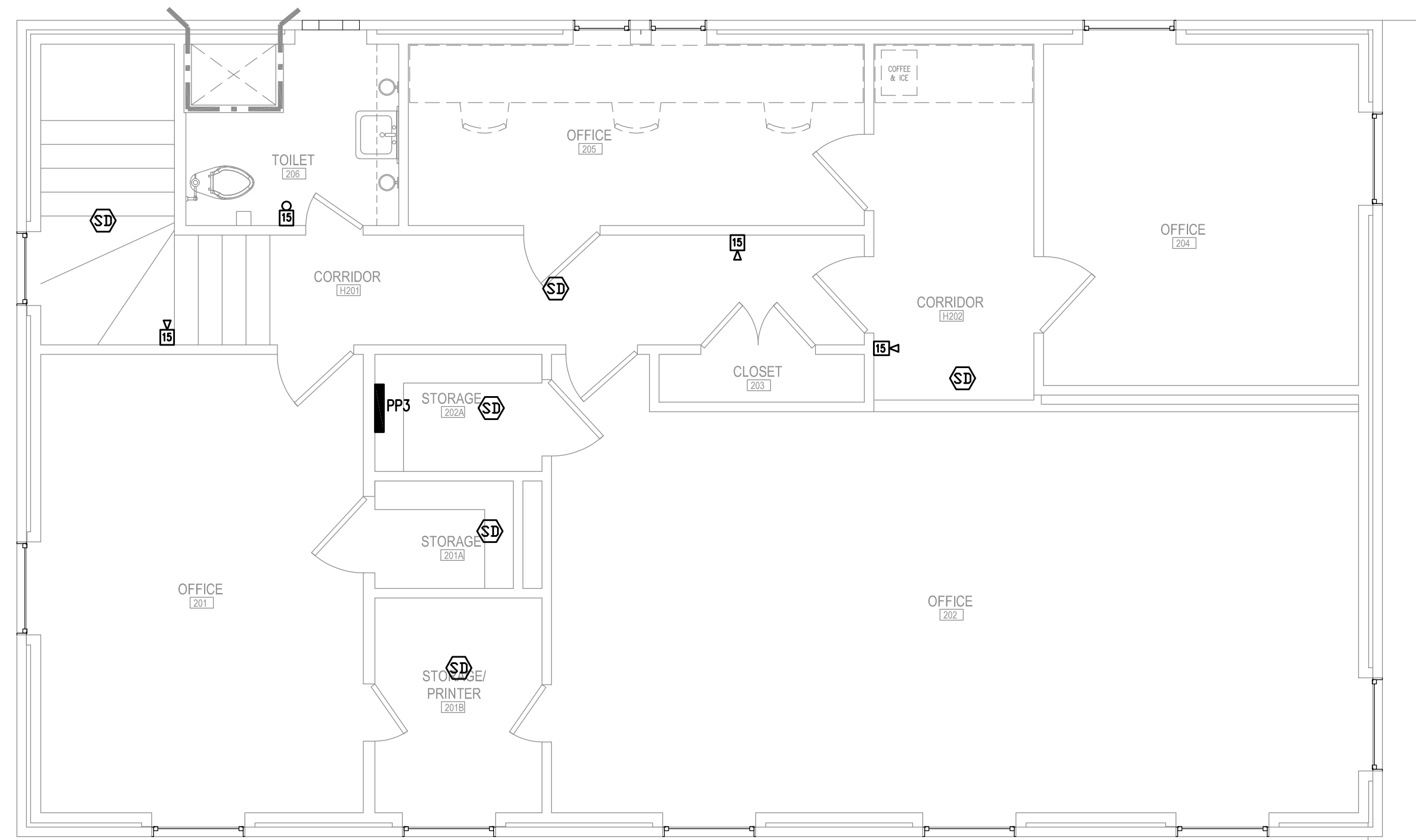
### ELECTRICAL FIRE ALARM FIRST AND SECOND FLOOR PLANS

sheet number

### E4.1

drawn by RMI

checked by RMI



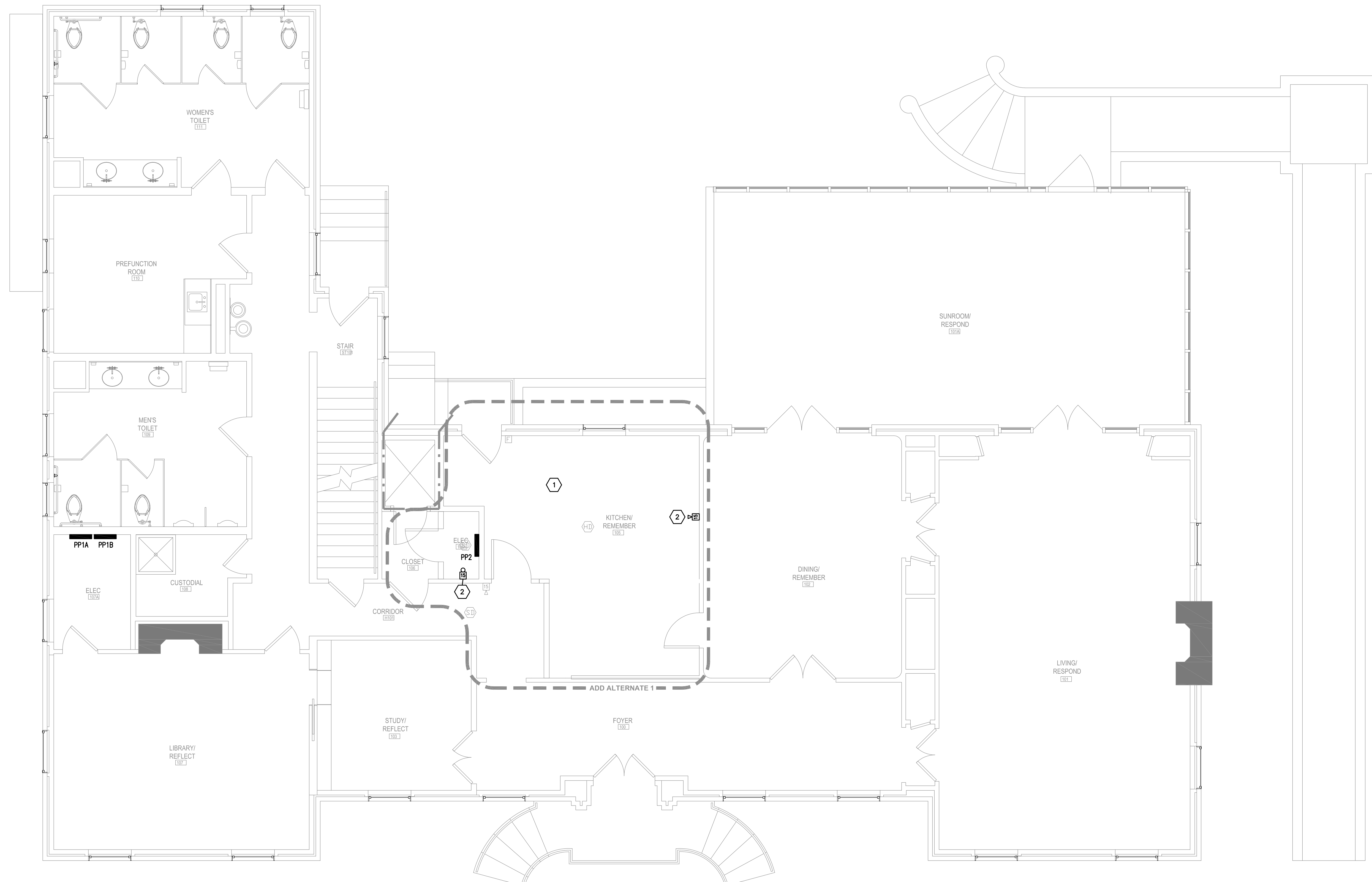
FIRE ALARM NOTES KEYED TO PLAN:

- |   |                                                                                                                               |
|---|-------------------------------------------------------------------------------------------------------------------------------|
| 1 | EXISTING FIRE ALARM DEVICES IN RENOVATION AREA TO REMAIN ARE SHOWN LIGHTWEIGHT.                                               |
| 2 | RELOCATE EXISTING DEVICE REMOVED DURING DEMOLITION TO NEW LOCATION SHOWN. EXTEND EXISTING CONDUIT AND WIRING TO NEW LOCATION. |

FIRE ALARM SYSTEM PARTIAL RENOVATION AND EXTENSION GENERAL NOTES:

1. INCLUDE IN BID ALL LABOR, MATERIALS, PROGRAMMING, ETC AS REQUIRED FOR COMPLETE SYSTEM IN ACCORDANCE WITH THE INTENT OF THESE DRAWINGS. CONTRACTOR SHALL FURNISH AND INSTALL ALL COMMUNICATIONS PATHWAYS AS REQUIRED FOR A COMPLETE SYSTEM. COORDINATE ALL PATHWAY LOCATIONS PRIOR TO ANY ROUGH-INS. IF CONDITIONS REQUIRE CONDUIT OR RACEWAY TO BE RUN EXPENSE COORDINATE ROUTING WITH ARCHITECT AND PAINT AS REQUIRED BY ARCHITECT.
2. ALL NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM AND NOTIFICATION APPLIANCES SHALL BE CAPABLE OF STROBE SYNCHRONIZATION WITH THE EXISTING DEVICES TO REMAIN IN ALL AREAS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO ENGINEER AND TO AHJ ALL REQUIRED CALCULATIONS AND DETAILS OF RENOVATED SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO, POINT TO POINT WIRING DIAGRAMS, REVISED WALK DROP CALCULATIONS, REVISED RACEWAY CALCULATIONS, AND ALL ADDITIONAL DOCUMENTATION REQUIRED FOR APPROVAL BY THE AHJ FOR THE COMPLETE SYSTEM AFTER RENOVATION.
4. PROVIDE ADDITIONAL POWER SUPPLIES, NAC EXTENDER PANELS, OR SIMILAR AUXILIARY EQUIPMENT AS REQUIRED FOR ADDITION OF NEW DEVICES AND FOR ADDITION OF EXISTING DEVICES TO REMAIN.
5. IF ANY DEVICES AFFECTED IN AREAS OF RENOVATION ARE INDICATED ON DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION AND CIRCUITING OF ALL DEVICES IN ADJACENT AREAS TO MAINTAIN OPERATION OF SYSTEM DURING AND AFTER RENOVATION.
6. PERSONNEL AND PERMIT SHALL BE OBTAINED BY THE AHJ PRIOR TO COMMENCING ANY WORK.
7. PROVIDE RECORD OF COMPLETION TO ENGINEER AND AHJ PER INTFA 72.
8. EXISTING FIRE ALARM SYSTEM MANUFACTURER: GANNETT FCI

② SECOND FLOOR – FIRE ALARM PLAN – RENOVATION  
1/4"=1'-0"



1 FIRST FLOOR – FIRE ALARM PLAN – RENOVATION  
1/4"=1'-0"

**REQUIRED WORK SEQUENCE:**

- RELEVANT WORK SEQUENCE:**
- A. Construct Work on 2nd floor during construction period:
    1. Stage 1: [2nd Floor alterations], Achieve full certificate of occupancy, including life safety system operational inspection and all other final completion requirements, by October 16, 2019.
    2. [1st Floor alterations (if alternate is accepted)], Achieve full certificate of occupancy, including life safety system operational inspection and all final completion requirements, within 105 calendar days from the Date of Commencement.
  - B. Coordinate construction schedule and operations with Owner.
  - C. Work on the 1st floor that supports the Work on the 2nd floor functionally (such as ducts, shafts, vertical piping and infrastructure, etc.) is to be included in Stage 1 work.