1. Donor wall to be removed, stored and reinstalled at designated location.
2. Remove existing wall and base completely, refer to plumbing, mechanical and electrical drawings for position of existing devices and services. Patch damaged finishes to match existing where shown to remain.
3. Remove existing door and frame completely.
4. Remove existing door and frame completely, infill opening to match existing where wall is to remain.
5. Remove portion of wall as shown for new door application. Contractor to patch/repair existing wall as required for new door installation at no cost.
6. Remove existing floor covering as noted.
7. All casework in this area is to be removed for new door assembly in wall. Contractor is to store casework while door is installed and reinstall after door is installed. Any discrepancies must be brought to the architect's attention prior to removal.
8. Not used.
9. Not used.
10. Remove portion of wall & base to accommodate new storefront opening. Contract to restore wall assembly to 1 hour fire rating as required.
11. Building will remain in use during renovation. Contractor shall coordinate all material delivery routes with owner. Provide temporary construction dust partition and "sticky mats" at each door to construction area.
12. Contractor to remove flooring at existing lobby to accommodate new rated glass assembly at lobby area.
13. See PD100 for demolition on existing sinks.

General Notes:
1. All furniture in project to be removed & stored by MUSC.
1. NOT USED.

2. EXISTING ACT Ceilings, Fixtures, & Diffusers to be removed in its entirety. Contractor to repair existing finishes per allowance #1.

3. NOT USED.

4. APPROX. LOCATION OF EXISTING TRACK LIGHTING, CONTRACTOR TO VERIFY IN FIELD. CONTRACTOR TO REMOVE STORE AND REUSE AT NEW DONOR WALL LOCATION.

5. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
1. Contractor to build temporary wall during phase construction to contain construction debris. Seal to prevent dust migration.

2. Building will remain in use during renovation. Contractor shall coordinate all material delivery routes with owner. Provide temporary construction dust partition and "sticky mats" at each door to construction area.

3. Contractor to construct a temporary 1-hour rated fire barrier after the demolition of wall for new storefront application to contain construction and provide a fire resistance rating from the project area and elevator lobby.

4. Contractor is to refer to MEP&FP sheets for more information regarding phasing of those disciplines.
NOTES:

1. NOT USED.

2. EXISTING ACT CEILING GRID, FIXTURES, & DIFFUSERS TO BE REMOVED IN ITS ENTIRETY. CONTRACTOR TO REPAIR EXISTING FINISHES PER ALLOWANCE #1.

3. NOT USED.

4. APPROX. LOCATION OF EXISTING TRACK LIGHTING, CONTRACTOR TO VERIFY IN FIELD. CONTRACTOR TO REMOVE STORE AND REUSE AT NEW DONOR WALL LOCATION.

5. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
ANY REQUIRED MODIFICATIONS TO NEW LOCATION’S SUBSTRATE TO SUPPORT THE DONOR WALL SHALL BE INCLUDED IN CONTRACT DOCUMENTS.

CONTRACTOR SHALL TAKE EXTREME CARE IN REMOVING/RELOCATING EXISTING DONOR WALL AND ALL RELATED EQUIPMENT FROM LOCATION. CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS ASSOCIATED WITH THE EXISTING DONOR WALL AND CONFIRM ACCEPTABILITY WITH NEW LOCATION AS INDICATED IN CONTRACT DOCUMENTS.

REMOVING/RELOCATING EXISTING DONOR WALL AND ALL RELATED EQUIPMENT FROM LOCATION WILL NEED TO BE FIELD VERIFIED AT THE CONTRACTOR’S EXPENSE.

THAT OCCURS AS A RESULT OF REMOVAL/RELOCATION WILL NEED TO BE FIELD VERIFIED AT THE CONTRACTOR’S EXPENSE.

CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS ASSOCIATED WITH THE EXISTING DONOR WALL AND CONFIRM ACCEPTABILITY WITH NEW LOCATION AS INDICATED IN CONTRACT DOCUMENTS.

DO NOT REMOVE SUBSTRATE TO SUPPORT THE DONOR WALL UNLESS APPROPRIATE.

NEW DONOR WALL LOCATION TO BE IN CENTER OF PRINTED FLOOR PLAN.

NEW STOREFRONT ASSEMBLY EFFECTED BY DEMOLITION OF WALL SECTION.

EXISTING WALL INTEGRITY, AS INDICATED.

RATED WALL ASSEMBLY TO INSURE RATED ASSEMBLY INTEGRITY.

EXISTING FLOOR BASE TO BE REMOVED AT LOCATION AFFECTED BY DEMOLITION OF WALL SECTION.

EXISTING FLOORING TO BE PROTECTED AT LOCATIONS EFFECTED BY DEMOLITION OF WALL SECTION.

APPROXIMATE AREA OF DEMOLITION OF EXISTING RATED WALL ASSEMBLY TO INSURE RATED ASSEMBLY INTEGRITY.

NEW FURNITURE AND EQUIPMENT TO BE PROVIDED BY CONTRACTOR.

EXISTING DOOR TO BE REPLACED, FRAME TO REMAIN.

NEW 6" RUBBER BASE TO BE PROVIDED BY CONTRACTOR. CONTRACTOR TO VERIFY IN FIELD. CONTRACTOR TO PROVIDE SUPPLEMENTAL SUPPORT FOR NEW BASE.

EXISTING 3'-0" RUBBER BASE TO BE REMOVED AT LOCATION. CONTRACTOR TO VERIFY IN FIELD.

FLUSH WOOD DOOR.

HOLLOW METAL FRAMES.

NON-STRUCTURAL METAL SYSTEM.

FIRE RATED GLASS AND FRAMING SYSTEM.

SOUND ATTENUATION BATTS.

CEILING GRID.

JOINT SEALANTS.

APPLIED FIREPROOFING SHEETS.

FIRE RATED WALL ASSEMBLY TO INSURE RATED ASSEMBLY INTEGRITY.

EXISTING STOREFRONT ASSEMBLY INTEGRITY.
PLUMBING GENERAL NOTES

1. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) CURRENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

2. PROVIDE CLEANOUTS AT THE BASE OF EACH SANITARY STACK IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) CURRENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION. CLEANOUTS SHALL BE SIZED TO MATCH THE PIPING BEING SERVED. FLOOR CLEANOUTS SHALL BE SPACED AT 75'-0" MAX. ALSO PROVIDE CLEANOUTS IN HORIZONTAL CHANGE OF DIRECTIONS >45°.

3. PROVIDE COMPONENTS AND SPECIFICATIONS IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) CURRENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

4. PROVIDE ALL CLEANOUTS AT THE BASE OF EACH PIPING STACK IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) CURRENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

5. PROVIDE SANITARY PIPE RISES, SANITARY PIPE DROP, AND SANITARY PIPE RISERS IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) CURRENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION.

6. CONCRETE CORING OR CUTTING MAY BE REQUIRED IN ORDER TO RUN PLUMBING OR OTHER SERVICES TO A SPECIFIC AREA. IT IS IMPERATIVE WHEN CONSIDERING EITHER CORING, CUTTING OR CHIPPING THAT REBAR, PLUMBING, ELECTRICAL SERVICES, ETC WITHIN THE CONCRETE SLAB, WALL OR FLOOR BE LOCATED PRIOR TO DISTURBING THE INTEGRITY OF THE EXISTING CONCRETE. OBTAIN STRUCTURAL DRAWINGS OF THE EXACT LOCATIONS REQUIRED FOR NEW SERVICES. DETERMINE THE FINAL LOCATION OF THE CORE OR CUT BY LOCATING THE PRECISE POSITIONING OF ANY REBAR USING X-RAYS OR FERRO SCAN.

7. EXISTING SANITARY SYSTEM IS AN ENGINEERED SINGLE STACK SOVENT DRAINAGE SYSTEM. TO MAINTAIN PERFORMANCE, IT IS CRITICAL THAT THE CONTRACTOR INSTALL NEW SOVENT AERATOR AND DEAERATOR FITTINGS AND IN-LINE OFFSETS OF EQUAL SIZE IN THE SAME LOCATIONS AND CONFIGURATIONS AS EXISTING.

8. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF WATER, FIRE, SANITARY, GAS, ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWN SHALL BE PERFORMED BETWEEN THE HOURS OF SIX (6) P.M. AND SIX (6) A.M. OR AS DIRECTED OTHERWISE BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUTDOWN, ALL SERVICES SHALL BE RESTORED SO THAT NORMAL USE OF THE UTILITIES CAN CONTINUE.

9. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE ARCHITECT, ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.

10. EXISTING DUCT, PIPE, AND EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

11. EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE SHALL BE DISCONNECTED AND REMOVED BACK TO SERVES MAINS, UNLESS OTHERWISE NOTED. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC. EXISTING P piping INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE SHALL BE CAPPED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHERWISE PLUGGED, PLUGGED, OR OTHER
NOTES:

1. REMOVE WALL MOUNTED SINK PRIOR TO RISER DEMOLITION.
2. REMOVE SANITARY TRAP AND DOMESTIC HOT AND COLD WATER LINES BACK TO MAINS LOCATED IN CORRIDOR.
   CONTRACTOR SHALL DEMOLISH SANITARY RISER FOR RELOCATION, SEE RENOVATION PLANS FOR MORE INFORMATION.
3. REFER TO P001 FOR GENERAL NOTES.
   ALL PIPING SHOWN IS LOCATED BELOW FIRST FLOOR SLAB WITHIN CRAWL SPACE. FIRST FLOOR WALLS ARE SHOWN FOR REFERENCE ONLY.

SCALE: 1/4" = 1'-0"
CONTRACTOR SHALL PROVIDE ALL TRANSITIONS AND FITTINGS TO CONNECT NEW SOVENT FITTINGS (DEAERATOR) TO EXISTING SANITARY PIPE. CONTRACTOR SHALL COORDINATE REQUIRED SIZE AND QUANTITY OF CONNECTION PRIOR TO ORDERING DEAERATOR FITTINGS. EXISTING SANITARY SYSTEM IS AN ENGINEERED SINGLE STACK SOVENT DRAINAGE SYSTEM. TO MAINTAIN PERFORMANCE, IT IS CRITICAL THAT THE CONTRACTOR INSTALL NEW SOVENT AERATOR AND DEAERATOR FITTINGS AND IN-LINE OFFSETS OF EQUAL SIZE IN THE SAME LOCATIONS AND CONFIGURATIONS AS EXISTING.

NEW WORK SHALL CONNECT TO EXISTING PIPING IN CRAWL SPACE. CONTRACTOR SHALL PROVIDE APPROPRIATE COUPLING (PROFLEX OR EQUAL) WHERE REQUIRED TO CONNECT TO EXISTING SYSTEM.

NEW WORK SHALL CONNECT TO EXISTING SANITARY SYSTEM IN FIRST FLOOR CEILING. CONTRACTOR SHALL PROVIDE APPROPRIATE COUPLING (PROFLEX OR EQUAL) WHERE REQUIRED TO CONNECT TO EXISTING SYSTEM.
### Through Penetration Firestop Schedule

This schedule identifies requirements for acceptable through penetration firestops for this project based on barrier type, basis of barrier construction, and penetrant type.

#### Notes:
1. This schedule's data apply only to penetrations without dampers. For dampered penetrations, refer to specifications.
2. Steel Appendix using barriers designed for construction.
3. Where a series and classified system is not available, metal penetrates direct, and provide single penetrant systems.
4. For systems that insert below floor, choose the following additional requirements:
   - Provide type C (see UL classified firestop systems).
   - Provide direct to pipe penetration.
   - Provide single penetrations.
5. Temperature (T) ratings apply to penetrations without dampers.
6. Temperature (T) ratings of assemblies in floors shall equal the greater of either the barrier rating or one hour except as follows:
   - Temperature (T) ratings of assemblies in floors shall equal the greater of either the barrier rating or one hour except as follows:
   - Barrier rating only.

<table>
<thead>
<tr>
<th>RATED BARRIER</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>METALLIC, NUMERICAL PIPE ON TUNNELS OR COPPER, WROUGHT STEEL</td>
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<tr>
<td></td>
<td>NUMERICAL, ASSOCIATED PIPE ON TUNNELS OR COPPER, WROUGHT STEEL</td>
</tr>
<tr>
<td></td>
<td>INSULATED PIPES (Copper, Mild Steel)</td>
</tr>
<tr>
<td></td>
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<tr>
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<td>INSULATED PIPES (Copper, Mild Steel)</td>
</tr>
<tr>
<td></td>
<td>METAL DUCT</td>
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</tbody>
</table>

#### Requirements:
- Provide fire stopping to maintain floor rating in accordance with UL standards.
- Provide type C (see UL classified firestop systems).
- Provide direct to pipe penetration.
- Provide single penetrations.

**Diagram:**
- Through penetration firestop schedule.
- Dimensions and details for various barriers and penetrants.
- Notes and requirements for installation.

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**Table:**

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<td></td>
<td>METAL DUCT</td>
</tr>
</tbody>
</table>

**Legend:**
- Firestop systems using barriers designed for construction.
- Where a series and classified system is not available, metal penetrates direct, and provide single penetrant systems.
- For systems that insert below floor, choose the following additional requirements:
  - Provide type C (see UL classified firestop systems).
  - Provide direct to pipe penetration.
  - Provide single penetrations.

---

**Notes:**
- Temperature (T) ratings apply to penetrations without dampers.
- Temperature (T) ratings in floors shall equal the greater of either the barrier rating or one hour except as follows:
  - Barrier rating only.
1. COMPLY WITH ALL APPLICABLE INTERNATIONAL BUILDING CODES FOR ALL WORK UNDER THIS CONTRACT.

2. MAXIMUM, MINIMUM CFM AND RE-HEATING FOR VAV BOXES ARE AS INDICATED ON THE VAV UNIT SCHEDULE. IF NOT INDICATED, SET THE VALVE X.

3. REFER TO AIR DEVICE SCHEDULE FOR INLET DUCT SIZES UNLESS OTHERWISE INDICATED.

4. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS & DRAIN VALVES WITH CAPPED HOSE CONNECTIONS AT ALL LOW POINTS OF PIPING.

5. THIS DRAWING HAS BEEN PREPARED BY ROSENBLUM COE ARCHITECTS, INC. FOR THIS PROJECT. THE ARCHITECT SHALL BE DEEMED THE AUTHOR OF THIS DRAWING.

6. INSTALL FLEXIBLE DUCTS IN ACCORDANCE WITH SMACNA STANDARDS AND PROJECT SPECIFICATIONS.

7. CONSTRUCT A MINIMUM OF 25 FEET FROM ANY AIR INTAKE. THE PRESSURE WITHIN THE WORK ZONE. PORTABLE AIR SCRUBBERS SIZED FOR 300-800 CFM WITH PARTICULATE PRE-FILTERS AND A TRUE HEPA FILTER CERTIFIED TO A MINIMUM FILTRATION EFFICIENCY OF 99.97% AT 0.3 MICRONS IN VOLUME.

8. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF WATER, FIRE, SEWER, GAS, ELECTRIC, ETC.

9. PATCH ALL DISTURBED SURFACES, INCLUDING WALLS, CEILINGS, ROOF, AND FLOOR. PATCHING SHALL MATCH EXISTING ADJACENT WALLS, CEILINGS, ROOF, AND FLOOR.

10. IN GENERAL ALL PIPING, EQUIPMENT, DUCTWORK, AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL PIPING, CONDUITS, MACHINERY, AND MACHINERY SUPPORTS, ETC., UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, SUPPORTS, ETC., UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. EXISTING DUCTWORK WHERE INDICATED TO BE CAPPED OR REQUIRED TO REMAIN IN SERVICE SHALL BE CAPPED WITH 18 GAUGE SHEET METAL. SECURE CAP WITH SHEET METAL SCREWS AND SEAL WITH FLAMMABLE SEALANT.

11. REFER TO AIR DEVICE SCHEDULE FOR OUTLET DUCT SIZES UNLESS OTHERWISE INDICATED.

12. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF DUCTWORK, PIPING, EQUIPMENT AND MATERIALS, INDICATED ARE BASED ON DRAWINGS AND COORDINATED THE CEILING HEIGHTS WITH THE ENGINEER.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES/ SUBCONTRACTORS INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, HOSPITALITY, AND CONTRACTOR TRADES.

14. DETERMINE THE FINAL LOCATION OF THE CORE OR CUT BY LOCALLING THE EXISTING AIR DEVICE IDENTIFIER.

15. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ISOC 9001 STANDARD.

16. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CLOSING ANY CEILINGS FOR A COMPLETE CHECKOUT OF THE HVAC SYSTEM.

17. THE SYSTEM MUST BE COMPLETE AND OPERATIONAL INCLUDING CONTROLS, REGISTERS, INSULATION, AND BALANCING WITH REPORT.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES/ SUBCONTRACTORS INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, HOSPITALITY, AND CONTRACTOR TRADES.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES/ SUBCONTRACTORS INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, HOSPITALITY, AND CONTRACTOR TRADES.

20. CONTRACTOR SHALL PROVIDE INDOOR AIR POLLUTION PREVENTION MEASURES DURING ALL DEMOLITION AND CONSTRUCTION WORK TO EVALUATE AND VERIFY BARRIER INTEGRITY.
NOTES:

1. REFER TO M001 FOR GENERAL NOTES.

2. ONE COPY OF THE PRE-TAB REPORT SHALL REMAIN WITH THE CONTRACTOR ON SITE FOR THE DURATION OF THE PROJECT.

3. PRIOR TO ANY WORK BEING PERFORMED THE CONTRACTOR SHALL PERFORM A BASELINE AIR AND PRESSURE READING AT THIS POINT. THE BASELINE AIR READINGS SHALL BE COMPILLED INTO A REPORT AND SUBMITTED TO THE OWNER AND ENGINEER OF RECORD FOR REVIEW.

4. PRIOR TO ANY WORK BEING PERFORMED THE CONTRACTOR SHALL PERFORM A BASELINE AIR AND PRESSURE READING ON VAV BOX TO ENSURE EXISTING VAV BOX IS CAPABLE OF 400 CFM. THE CONTRACTOR SHALL FORCE THE VAV BOX INTO ITS FULLY OPEN POSITION TO OBTAIN REQUIRED FLOW READINGS, IF NECESSARY. IF VAV BOX TOTAL AIRFLOW IS INSUFFICIENT, CONTRACTOR SHALL CLEAN AND MAINTAIN THE VAV BOX TO OPTIMAL CONDITIONS PRIOR TO RETESTING. IMMEDIATELY NOTIFY THE OWNER, ARCHITECT AND ENGINEER IF AIRFLOW S ARE INSUFFICENT. THE VAV BOX AIR READINGS SHALL BE COMPILED INTO A REPORT AND SUBMITTED TO THE OWNER AND ENGINEER OF RECORD FOR REVIEW.

5. PRIOR TO ANY WORK BEING PERFORMED THE CONTRACTOR SHALL PERFORM A BASELINE AIR AND PRESSURE READING ON VAV BOX TO ENSURE EXISTING VAV BOX IS CAPABLE OF 1100 CFM. THE CONTRACTOR SHALL FORCE THE VAV BOX INTO ITS FULLY OPEN POSITION TO OBTAIN REQUIRED FLOW READINGS, IF NECESSARY. IF VAV BOX TOTAL AIRFLOW IS INSUFFICIENT, CONTRACTOR SHALL CLEAN AND MAINTAIN THE VAV BOX TO OPTIMAL CONDITIONS PRIOR TO RETESTING. IMMEDIATELY NOTIFY THE OWNER, ARCHITECT AND ENGINEER IF AIRFLOW S ARE INSUFFICENT. THE VAV BOX AIR READINGS SHALL BE COMPILED INTO A REPORT AND SUBMITTED TO THE OWNER AND ENGINEER OF RECORD FOR REVIEW.
PHASE 1

PHASE 2

NOTES:

1. PROVIDE MANUAL BALANCING DAMPER IN VERTICAL DUCT DOWN TO AIR DEVICE. BALANCE TO AIRFLOW INDICATED.
2. PLACE DIFFUSER IN NEW CEILING GRID LOCATION. RELOCATED DIFFUSER, BALANCE TO AIRFLOW INDICATED.
3. INSTALL NEW DDC THERMOSTAT.
4. RELOCATE ONE PNEUMATIC THERMOSTAT TO LOCATION INDICATION. EXTEND PNEUMATIC TUBING TO TIE TWO EXISTING VAV BOXES INTO RELOCATED THERMOSTAT.
5. REFERENCE M001 FOR GENERAL NOTES.
TEMPERATURE SENSOR SHALL BE INSTALLED TWO FEET DOWNSTREAM OF AIR TERMINAL UNIT.

1. THE VARIABLE VOLUME AIR TERMINAL UNIT DAMPER SHALL INITIALLY BE OPEN TO A MINIMUM HEATING POSITION AND SHALL MODULATE TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINT.

2. UNLESS OTHERWISE NOTED, DEVICES LOCATED IN OCCUPIED SPACES SHALL BE EQUIPMENT DRAWINGS PRIOR TO INSTALLATION.

3. THE FIXED BOUNDARY SHALL BE THE OUTSIDE FACE OF THE STRUCTURAL MANTEL WALLS, EXCEPT WHERE ENSLAVEMENT IS SPECIFIED IN THE SITE OR WHERE AN EXTERIOR WALL IS REFLECTED AS BEING EXISTING OR TO BE DELETED.

4. A STRAIGHT SECTION OF UNRESTRICTED DUCT AT LEAST TWO (2) DIAMETERS LONG SHALL BE INSTALLED AT THE TERMINAL UNIT INLET.

5. TEMPERATURE SENSOR SERVING THE AIR TERMINAL UNIT.

6. SPACE SENSOR

7. VARIABLE VOLUME SUPPLY AIR TERMINAL UNIT WITH REHEAT

8. DETAIL - VARIABLE AIR VOLUME TERMINAL REHEAT UNIT

9. DETAIL - RETURN/EXHAUST AIR REGISTER BRANCH DUCT

10. DETAIL - CEILING DIFFUSER BRANCH DUCTS

11. DETAIL - CEILING DIFFUSER BRANCH DUCTS

12. DETAIL - HYDORIC COIL (3-WAY)

13. DETAIL - OPTICAL SHOP DRAWING NOTES:

14. CONTRACTOR'S PROJECT NUMBER: 580145

15. METAL SCREWS AND SEAL

16. SEQUENCE OF OPERATION

17. THE VARIABLE VOLUME AIR TERMINAL SHALL OPERATE ON A OCCUPIED/UNOCCUPIED SCHEDULE. OCCUPIED/UNOCCUPIED MODES SHALL BE AS DETERMINED BY THE OCCUPIED/UNOCCUPIED PROGRAM OF THE BUILDING AUTOMATION SYSTEM (BAS).

18. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON DUCTWORK SUPPORT ASSEMBLIES.

19. PROVIDE SEISMIC SWAY BRACING FOR ALL DUCTWORK AND HANGERS PER THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

20. PROVIDE RIGID ELBOW DUCT SHAPE

21. PROVIDE SEISMIC ISOLATION FOR ALL DUCTWORK AND HANGERS PER THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

22. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON DUCTWORK SUPPORT ASSEMBLIES.
### Through Penetration Firestop Schedule

#### Rated Barrier

<table>
<thead>
<tr>
<th>Type</th>
<th>Base of Construction</th>
<th>Firestop Assembly Requirements</th>
<th>Penetration Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Steel &amp; Knockouts (Used Series)</td>
<td>Single Penetration</td>
<td>Insulated Pipe (Ex. Copper, Iron)</td>
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<tr>
<td></td>
<td></td>
<td>Multi-Stage Penetration</td>
<td>Insulated Pipe (Ex. Copper, Iron)</td>
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</tr>
</tbody>
</table>

#### Notes

1. This schedule identifies requirements for acceptable through penetration firestops for the project based on barrier type, base of barrier construction, and penetration type.
2. These barriers are firestop systems that are not required for floor penetrations contained fully in a rated shaft enclosure.
3. For each penetration, select a through penetration firestop based on actual wall conditions. Walls include but are not limited to fire protection, firestop penetration, wall insulation, and wall finish materials, and are subject to wall thickness and position requirements.
4. List of Classified Firestop Assemblies chart is based on those used to evaluate fireproofing materials and is not intended to cover all firestop systems.
NOTES:
1. CIRCUITS SERVING LIGHTING FIXTURES SHALL BE REUSED FOR NEW FIXTURES.
   SEE ARCHITECTURAL PLANS FOR PHASING.

2. EXISTING TRACK LIGHTING TO BE RELOCATED. SEE SHEET E201 FOR NEW LOCATION. RELOCATED EXISTING CONTROLS.
1. See architectural drawings for reflected ceiling plan.

2. Existing track lighting to be relocated here. Extend existing circuit to this location. Confirm exact location with architect. Reconnect to existing controls.

3. Provide dimmer compatible with lamp type specified in fixtures schedule on sheet E601.

4. Fixtures in this area are to be connected to existing 277V circuit in this area.
PURCHASE 20A, 1P BREAKER TO MATCH EXISTING GE TYPE NLAB

1. REPLACE EXISTING 2P 20A BREAKER WITH (2) 1P 20A BREAKERS

2. LIGHTING FIXTURE SCHEDULE

3. DESCRIPTION LOUVER/LENS
   - A1 EXISTING 2’x2’ FLOURESCENT TROFFER T8 10K 1277 0 CEILING RECESSED EXISTING FIXTURES, SEE E100 FOR DEMO PLANS
   - A2 EXISTING 2’x4’ FLOURESCENT TROFFER T8 10K 100 CEILING RECESSED EXISTING FIXTURES, SEE E100 FOR DEMO PLANS
   - A3 EXISTING 6” DOWNLIGHTS 10K 100 CEILING RECESSED EXISTING FIXTURES, SEE E100 FOR DEMO PLANS

4. REMOVAL OF EXISTING 2P 60A CIRCUIT BREAKER AND PROVIDE (2) 1P 20A BREAKERS.

5. GENERAL NOTES
   - X1 LED EXIT SIGN 1277 0 CEILING RECESSED EXISTING FIXTURE
   - E1 EMERGENCY BUG EYE TYPE FIXTURE ACRYLIC LED 511 120 5 WALL SURFACE XTRALIGHT #EMX-0036-SDT
   - R1 2’x2’ LED LENSED TROFFER ACRYLIC LED 211 3500 K 1277 21 CEILING RECESSED HE WILLIAMS COLUMBIA #LLT22-35LWG-FSA12F-EDU LITHONIA #2TL2-20L-FW-A12-EZ1-LP835 #LPT-22-L27/835-S-AF12125-DIM-UNV
   - R2 2’x4’ LED LENSED TROFFER ACRYLIC LED 311 3500 K 1277 31 CEILING RECESSED HE WILLIAMS COLUMBIA #LLT24-35LWG-FSA12F-EDU LITHONIA #2TL4-48L-FW-A12-EZ1-LP835 #LPT-24-L43/835-S-AF12125-DIM-UNV
   - T1 TRACK FIXTURES, LINE VOLTAGE LED PAR-20 20 14000 K 120 20 TRACK LAMP TO BE PROVIDED BY LUM LIGHTING GROUP
   - ETR - LTG RM 103 120 A -- 10.00 0.00 2 20 A 1 ETR - OVRHD REC HWY 125 --
   - ETR - REC WIRMLD RM 121 120 A -- 3 0.00 0.00 4 20 A 1 ETR - REC RECEPTION DSK --
   - ETR - REC ELVTR LBY + PIT 120 A -- 5 0.00 0.00 6 20 A 1 EXISTING CIRCUIT --
   - ETR - WATER COOLER 120 A -- 7 0.00 0.00 8 20 A 1 EXISTING CIRCUIT --
   - 2#12, 1#12 GRD REC NEW WAITING RM 120 A 9 0.90 0.00 10 20 A 1 ETR - REC UNDR COUNTER --
   - ETR - REC RM 129, 130 120 A -- 11 0.00 0.00 12 20 A 1 ETR - REC UNDR COUNTER --
   - 2#12, 1#12 GRD REC NEW OFFICE #1 120 A 13 0.90 0.00 14 20 A 1 SPARE --
   - ETR - REC RM 124 120 A -- 17 0.00 1.32 18 20 A 1 ETR - REC CLEANING CORR --
   - 2#12, 1#12 GRD LTG OPTICAL DISPLAY 120 A 27 1.26 0.00 28 20 A 1 ETR - REC CLEANING CORR --
   - ETR - REC NRS STN RM 122 120 A -- 29 0.00 0.00 30 20 A 1 ETR - UPS DISC 1 RM 114 --
   - SPACE -- -- -- 33 0.00 0.00 34 20 A 1 ETR - UPS DISC 2 RM 114 --
   - SPACE -- -- -- 35 0.00 0.00 36 20 A 1 ETR - UPS DISC 2 RM 114 --

CONSTRUCTION DOCUMENTS

STORM EYE INSTITUTE
OPTICAL SHOP
HS1-50068
167 ASHLEY AVE
CHARLESTON, SC 29425

PROJECT NUMBER: 580145

- ETR - LTG RM 103 120 A -- 10.00 0.00 2 20 A 1 ETR - OVRHD REC HWY 125 --
- ETR - REC WIRMLD RM 121 120 A -- 3 0.00 0.00 4 20 A 1 ETR - REC RECEPTION DSK --
- ETR - REC ELVTR LBY + PIT 120 A -- 5 0.00 0.00 6 20 A 1 EXISTING CIRCUIT --
- ETR - WATER COOLER 120 A -- 7 0.00 0.00 8 20 A 1 EXISTING CIRCUIT --
- 2#12, 1#12 GRD REC NEW WAITING RM 120 A 9 0.90 0.00 10 20 A 1 ETR - REC UNDR COUNTER --
- ETR - REC RM 129, 130 120 A -- 11 0.00 0.00 12 20 A 1 ETR - REC UNDR COUNTER --
- 2#12, 1#12 GRD REC NEW OFFICE #1 120 A 13 0.90 0.00 14 20 A 1 SPARE --
- ETR - REC RM 124 120 A -- 17 0.00 1.32 18 20 A 1 ETR - REC CLEANING CORR --
- 2#12, 1#12 GRD LTG OPTICAL DISPLAY 120 A 27 1.26 0.00 28 20 A 1 ETR - REC CLEANING CORR --
- ETR - REC NRS STN RM 122 120 A -- 29 0.00 0.00 30 20 A 1 ETR - UPS DISC 1 RM 114 --
- SPACE -- -- -- 33 0.00 0.00 34 20 A 1 ETR - UPS DISC 2 RM 114 --
- SPACE -- -- -- 35 0.00 0.00 36 20 A 1 ETR - UPS DISC 2 RM 114 --

PROJECT NUMBER: H51-50068

- ETR - LTG RM 103 120 A -- 10.00 0.00 2 20 A 1 ETR - OVRHD REC HWY 125 --
- ETR - REC WIRMLD RM 121 120 A -- 3 0.00 0.00 4 20 A 1 ETR - REC RECEPTION DSK --
- ETR - REC ELVTR LBY + PIT 120 A -- 5 0.00 0.00 6 20 A 1 EXISTING CIRCUIT --
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- 2#12, 1#12 GRD REC NEW OFFICE #1 120 A 13 0.90 0.00 14 20 A 1 SPARE --
- ETR - REC RM 124 120 A -- 17 0.00 1.32 18 20 A 1 ETR - REC CLEANING CORR --
- 2#12, 1#12 GRD LTG OPTICAL DISPLAY 120 A 27 1.26 0.00 28 20 A 1 ETR - REC CLEANING CORR --
- ETR - REC NRS STN RM 122 120 A -- 29 0.00 0.00 30 20 A 1 ETR - UPS DISC 1 RM 114 --
- SPACE -- -- -- 33 0.00 0.00 34 20 A 1 ETR - UPS DISC 2 RM 114 --
- SPACE -- -- -- 35 0.00 0.00 36 20 A 1 ETR - UPS DISC 2 RM 114 --

SUMMARY OF EQUIPMENT

- PANELBOARD: 1L2
- WIRE SIZE LOAD DESCRIPTION P
- PANEL NOTES:
  - PROVIDE GROUND BUS
  - PROVIDE FULL SIZE NEUTRAL BUS UNLESS NOTED OTHERWISE
  - CIRCUIT NAMES STARTING WITH ETR ARE EXISTING, TO REMAIN

BREAKER TYPE KEYS:
- LO - INDICATES C.B. EQUIPPED WITH "LOCK-ON" DEVICE
- GF - INDICATES C.B. IS GROUND FAULT TYPE (5mA FOR PERSONNEL)
- ST - INDICATES C.B. EQUIPPED WITH SHUNT TRIP DEVICE

ELECTRICAL SCHEDULES

A601
FIRE PROTECTION GENERAL NOTES

1. The Sprinkler Contractor shall review architectural drawings, including all reflected ceiling plans, prior to preparing the bid.

2. All low points of the sprinkler system shall be provided with drains per NFPA-13 currently adopted revision. Low point drains shall be clearly marked and piped to the exterior of the building. A valve drawing shall be provided in the mechanical room showing the locations of all low point drains.

3. All sprinkler head temperature ratings shall be ordinary (165°F) unless otherwise indicated. All sprinklers installed in gypsum, plaster, and wood ceilings shall be concealed type. All sprinklers in acoustical ceiling tile shall be semi-recessed type.

4. All pipe penetrations through masonry walls shall be provided with the minimum clearance requirements for seismic protection as defined by NFPA-13. All piping less than four (4) inches shall have a pipe sleeve a nominal diameter 2 inches larger than the nominal diameter of the pipe. All piping four (4) inches and larger shall have a pipe sleeve a nominal diameter 4 inches larger than the nominal diameter of the pipe.

5. Fire caulk and sleeve all penetrations through fire rated assemblies. Refer to life safety plans for rated assembly locations.

6. Provide temporary piping as required so areas outside the areas of work can continue to be served from the fire protection system.

7. Existing drawings with sizes are provided for the convenience of the contractor only and are not warranted to be correct. Contractor shall verify all sizes in the field.

8. See architectural drawings for phasing plan.
GENERAL NOTES

1. REFER TO FP001 FOR GENERAL NOTES.
2. REFER TO DRAWING FP301 AND FP302 FOR EXISTING FIRST FLOOR AND CRAWL SPACE FIRE PROTECTION LAYOUT (FOR REFERENCE ONLY).

1. MODIFY THE EXISTING SPRINKLER SYSTEM TO PROVIDE A COMPLETE HYDRAULICALLY DESIGNED AUTOMATIC WET SPRINKLER SYSTEM FOR ALL RENOVATED/UPFIT AREAS OF WORK.
2. SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE STATE FIRE MARSHAL REQUIREMENTS.
3. THE EXISTING MAIN AND BRANCH SPRINKLER PIPING WITHIN THE AREA OF WORK SHALL BE REMOVED SUCH THAT THE PROGRAM AREAS OUTSIDE THE AREAS OF WORK HAVE CONTINUED FIRE PROTECTION.
4. TEMPORARY PIPING SHALL BE PROVIDED AS REQUIRED.
5. PRIOR TO INSTALLATION, NEW SPRINKLER PIPING SHALL BE FULLY COORDINATED WITH HVAC AND ELECTRICAL SERVICES.
### THROUGH PENETRATION FIRESTOP SCHEDULE

**A.** This schedule identifies requirements for acceptable through penetration firestops for the project based on barrier type, basis of barrier construction, and penetrant type.

**B.** Through penetration firestops are not required for floor penetration to coincide structurally with interior painted drywall assemblies.

**C.** For HVAC penetration, select a through penetration firestop type of barrier as actual field condition. Such board at and above minimum combustible use, penetrant placement, penetrant materials, quantity of penetrants, penetrant size, and location of penetrants may vary.

**D.** Specifications of all classified firestop assemblies used in this schedule is identical to that used in the National Fire Protection Association 2016 Edition. To view the full technical directorate, visit www.fpa.org.

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<tr>
<th>RATED BARRIER</th>
<th>PENETRANT TYPE</th>
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<tbody>
<tr>
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<td>SINGLE PENETRANT</td>
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<td>V-4000 SERIES</td>
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<td>RATING</td>
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<td>NOTE 5</td>
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**NOTES:**

1. This schedule applies only to penetrations without barriers. For composite penetrations, refer to specifications.

2. RATED BARRIERS USED IN BARRIERS CONSTRUCTION.

3. Where a barrier is classified system is not available, install penetrates direct, and provide single penetrant systems.

4. Prior to the implementation of composite barriers, the manufacturer shall provide the penetrates direct and composite barriers.

5. This schedule applies only to penetrations without barriers. For composite penetrations, refer to specifications.

6. A. Provide TPFS systems using intumescent elastomeric wrap strap foil for solid, split, or cavity wall.

7. CLASSIFIED TPFS ASSEMBLY IS NOT REQUIRED WHEN ALL THE FOLLOWING CONDITIONS MONTH:

- Temperature (T) Ratings of assemblies in walls equal 0.
- A. Provide TPFS systems using intumescent elastomeric wrap strap foil for solid, split, or cavity wall.
- B. Do not use series 8000 penetrations. Provide only single penetrations.
- C. Angular spaces are completed filled with concrete, direct, or mortar for the full thickness of the barrier.

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**FIRE PROTECTION SCHEDULES**

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<tr>
<th>FIRE PROTECTION SCHEDULE</th>
<th>DESCRIPTION</th>
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GENERAL NOTES

1. AS-BUILT FIRE PROTECTION SYSTEM DRAWINGS ARE PROVIDED FOR CONTRACTOR’S REFERENCE ONLY TO ASSIST WITH DESIGN FOLLOW RATE CALCULATIONS AS REQUIRED BY NFPA -13 (2013) 8.15.20.5.2.