

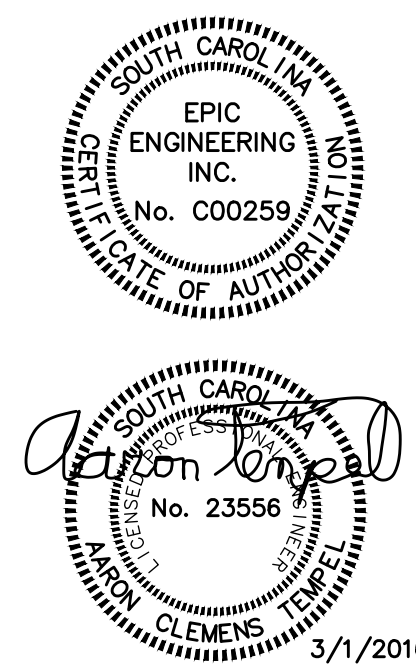
# MECHANICAL AND ELECTRICAL RENOVATIONS FOR SUMMERVILLE TOWN HALL

104 CIVIC CENTER  
SUMMERVILLE, SOUTH CAROLINA 29483

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3	DESCRIPTION: DATE REVISD:

**SUMMERVILLE  
TOWN HALL**  
 200 SOUTH MAIN ST  
 SUMMERVILLE, SC 29483  
PROJECT TITLE

<b>TITLE SHEET</b>	<small>DRAWING TITLE</small>	
	<small>SCALE:</small> NONE	<small>DATE:</small> 8-3-15

SHEET NUMBER  
**T1** OF 9

CAD FILE NAME:  
**15065T1**

## SCOPE OF WORK

### MECHANICAL

1. THIS PROJECT PROVIDES FOR THE DEMOLITION AND REMOVAL OF THE EXISTING VENTILATION AIR HANDLING UNITS (VAV-1,2,3), ELECTRIC DUCT HEATERS (DH-1,2), REFRIG. LINES, WATER COOLER CONDENSER, DUCTWORK AND ASSOCIATED APPURTENANCES.
2. PROVIDE A NEW TRANE DEDICATED OUTDOOR AIR UNIT (DOAU-1) WITH AN ENERGY RECOVERY VENTILATOR. THE DOAU-1 SHALL BE MOUNTED ON THE ROOF TO CONDITION THE OUTSIDE VENTILATION AIR TO SERVE THE BUILDING.
3. PROVIDE A NEW EXHAUST FAN WITH ROOF CURB ADAPTER FOR EXISTING EF-4.
4. THE SYSTEM REPLACEMENT WILL BE PHASED TO ALLOW THE OWNER TO CONTINUE TO OCCUPY PORTIONS OF THE BUILDING WITH MINIMAL DISRUPTION TO OPERATIONS. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE OWNER TO PROVIDE A PHASING PLAN AND CONSTRUCTION SCHEDULE PRIOR TO THE COMMENCEMENT OF WORK.
5. DESIGN WAS BASED ON AS-BUILT DRAWINGS. CONTRACTOR VERIFY ALL EQUIPMENT, DUCTWORK AND ASSOCIATED APPURTENANCES.

### ELECTRICAL

1. THIS PROJECT PROVIDES FOR THE REMOVAL OF EXISTING MECHANICAL EQUIPMENT AND THE ADDITION OF NEW MECHANICAL EQUIPMENT.
2. EXISTING ELECTRICAL CIRCUITS SERVING MECHANICAL EQUIPMENT TO BE REMOVED AS SHOWN ON THE ELECTRICAL DEMOLITION DRAWINGS. CIRCUITRY TO BE PULLED BACK COMPLETE TO APPROPRIATE ELECTRICAL PANEL. PANEL BREAKERS TO BE SPARED AND REUSED AS SHOWN ON THE ELECTRICAL RENOVATION DRAWINGS. PANEL DIRECTORIES TO BE UPDATED ACCORDINGLY.
3. DESIGN WAS BASED ON AS-BUILT DRAWINGS, CONTRACTOR TO VERIFY ALL CIRCUITRY.

### FIRE ALARM

1. PROVIDE NEW DUCT-MOUNTED SMOKE DETECTORS TO SHUT DOWN THE DEDICATED OUTDOOR AIR UNIT. SMOKE DETECTOR PROVIDED BY THE FIRE ALARM CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE FIRE ALARM CONTRACTOR TO THE FIRE ALARM SYSTEM ONLY. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING BETWEEN AHU AND DETECTOR FOR UNIT SHUTDOWN.

### ARCHITECTURAL

1. PROVIDE PERMANENT ACCESS LADDER TO THE EXISTING ROOF HATCH.

### STRUCTURAL

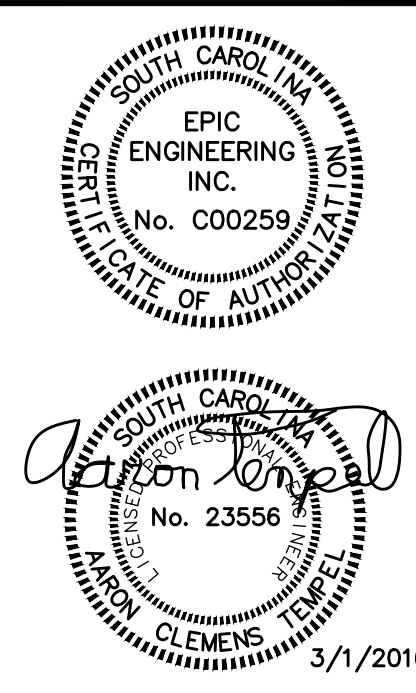
1. MODIFY EXISTING ROOF FRAMING TO PROVIDE SUPPORT FOR NEW DEDICATED OUTDOOR AIR UNIT TO BE INSTALLED ON ROOF. PROVIDED WITH SURROUNDING PLATFORM AND ACCESS LADDER.

### ROOFING

1. PROVIDE ROOF PENETRATIONS, INCLUDING ROOF MODIFICATION TO SLOPE ROOF, REPAIR ROOF AND SEAL TO ENSURE WEATHER TIGHTNESS IS MAINTAINED.

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PROJECT TITLE

**SCOPE OF WORK**  
DRAWING TITLE

SCALE: NONE  
DATE: 8-3-15

SHEET NUMBER  
**T2** OF 9

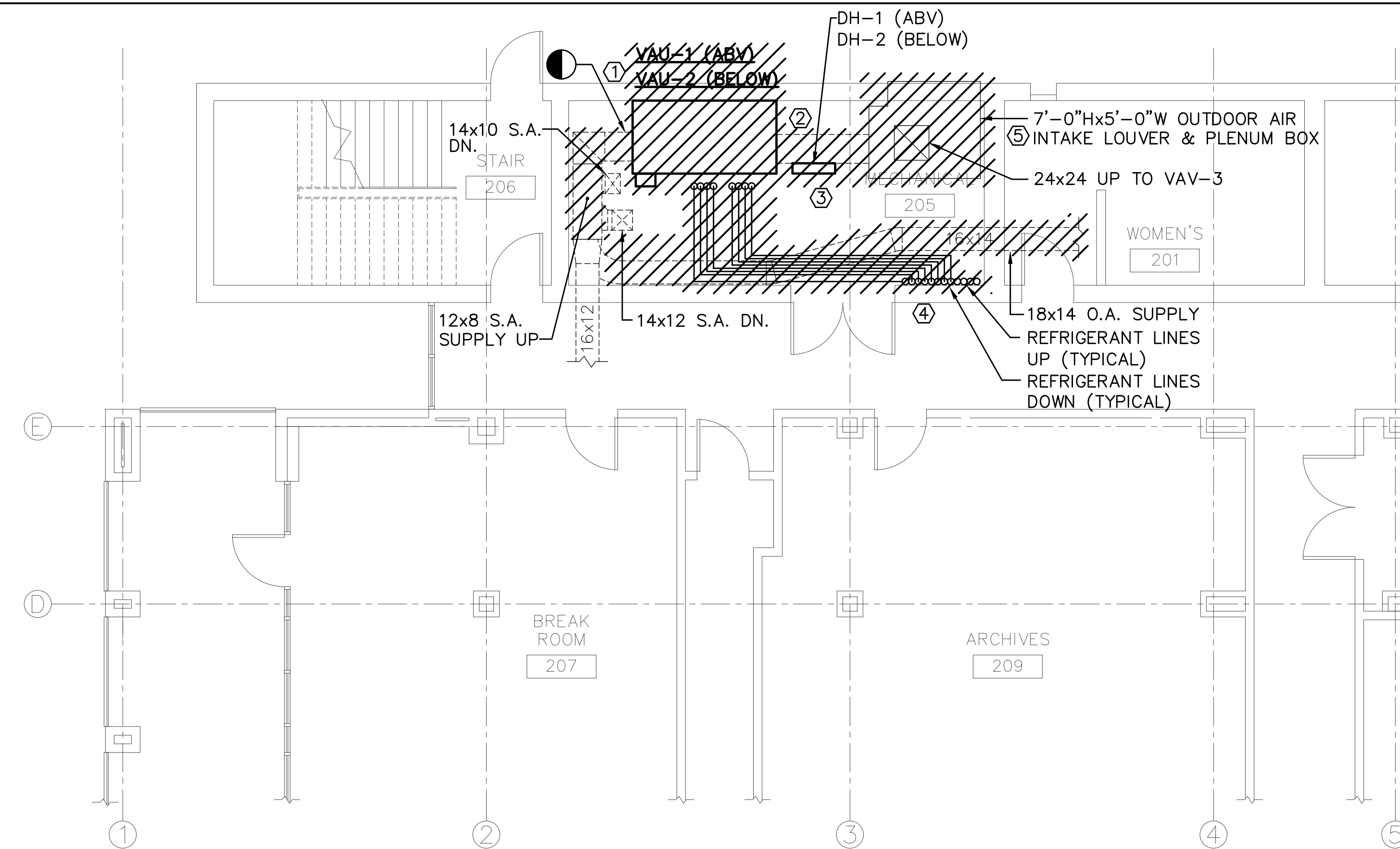
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**GENERAL DEMOLITION NOTES**

- ALL ITEMS AND BUILDING CONSTRUCTION (I.E. EQUIPMENT, DUCTWORK, PIPING, WALLS, FLOORS, ETC.) SHOWN ON DEMOLITION PLANS ARE EXISTING AND SHALL REMAIN, UNLESS NOTED OTHERWISE.
- REMOVAL OF EQUIPMENT, DUCTWORK, PIPING, ETC. IS TO INCLUDE ALL ASSOCIATED HANGERS, SUPPORTS, BRACKETS, CONTROLS, AIR DEVICES, EQUIPMENT FOUNDATION/MOUNTING PADS, AND APPURTENANCES PHYSICALLY ATTACHED AT THE COMMENCEMENT OF DEMOLITION, UNLESS NOTED OTHERWISE.
- CONCEALED/BURIED PIPING MAY BE ABANDONED IN PLACE SO LONG AS IT DOES NOT INTERFERE WITH NEW WORK, UNLESS NOTED OTHERWISE.
- ALL EXISTING PIPE SIZES INDICATED OR ASSUMED ARE APPROXIMATE TO WITHIN 3 PIPE SIZES, FOR BIDDING PURPOSES.
- ALL EXISTING DUCT SIZES INDICATED OR ASSUMED ARE APPROXIMATE TO WITHIN  $\pm 3"$  ON EACH DIMENSION, FOR BIDDING PURPOSES.
- LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC., IS DIAGRAMMATIC ONLY AND IS NOT INTENDED TO SHOW THE EXACT LOCATION.
- COLD WATER PIPES WITH NO SIZE INDICATED, ASSUME 1-1/2" SIZE.
- HOT WATER PIPES WITH NO SIZE INDICATED, ASSUME 1" SIZE.
- WASTE PIPING WITH NO SIZE INDICATED, ASSUME 4" SIZE.
- VENT PIPING WITH NO SIZE INDICATED, ASSUME 2" SIZE.
- STEAM PIPING WITH NO SIZE INDICATED, ASSUME 2-1/2" SIZE.
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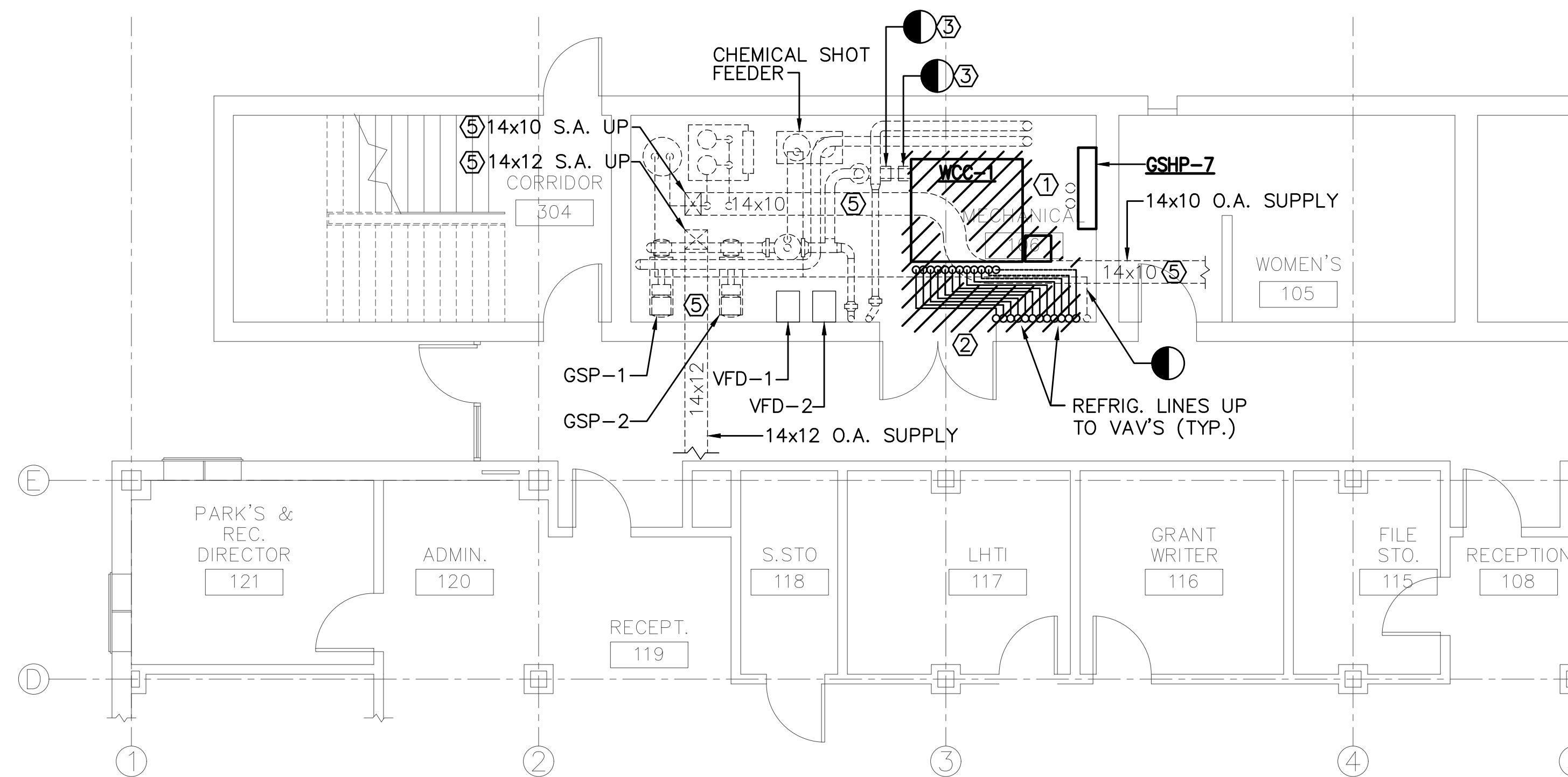
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- ALL PIPING, DUCTWORK, AND ASSOCIATED APPURTENANCES INDICATED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR WITHIN 24 HOURS AFTER REMOVAL OF SUCH ITEMS.
- EXISTING EQUIPMENT INDICATED TO BE REUSED SHALL BE CLEANED AND SERVICED PRIOR TO REUSE.
- WHERE EQUIPMENT, DUCTWORK, OR PIPING EXPOSED TO VIEW IS REMOVED AND NOT REPLACED, PATCH AND FINISH AREAS TO MATCH ADJACENT SURFACES.
- ALL WORK SHALL BE ACCOMPLISHED IN A MANNER THAT WILL CAUSE THE LEAST DISRUPTION TO NORMAL BUILDING OPERATIONS.



**MECHANICAL DEMOLITION PLAN - SECOND FLOOR**  
SCALE: 3/16"=1'-0"

**KEYED NOTES (THIS SHEET ONLY)**

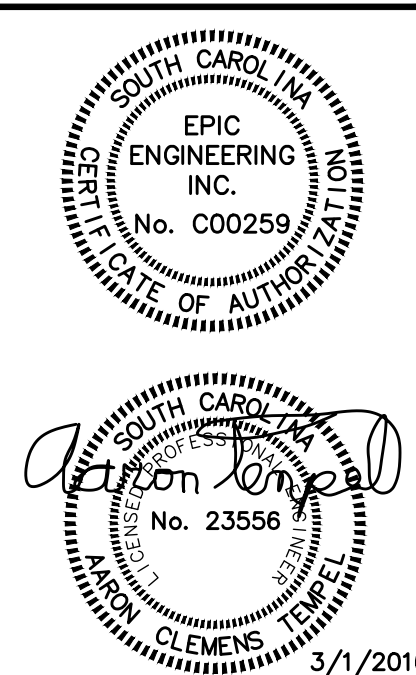
- DEMOLISH VAV-1 & VAV-2 AND ASSOCIATED APPURTENANCES.
- DEMOLISH 24x24 DUCTWORK UP TO VAV-3 AND ASSOCIATED APPURTENANCES. CAP AND SEAL AT CEILING HEIGHT.
- DEMOLISH DH-1 & 2 AND ASSOCIATED APPURTENANCES.
- DEMOLISH REFRIG. LINES AND ASSOCIATED APPURTENANCES.
- DEMOLISH LOUVER, PLENUM BOX AND ASSOCIATED APPURTENANCES. BLANK OFF WALL OPENING WITH 16" GA SHEET METAL, INSULATE WITH 1"-THICK CLOSED CELL EPDM ELASTOMETRIC THERMAL INSULATION AS MANUFACTURED BY AEROCEL.



**MECHANICAL DEMOLITION PLAN - FIRST FLOOR**  
SCALE: 3/16"=1'-0"

**KEYED NOTES (THIS SHEET ONLY)**

- DEMOLISH WATER COOLER CONDENSER (HEART HARVESTER) AND ASSOCIATED APPURTENANCES.
- DEMOLISH REFRIG. LINES AND ASSOCIATED APPURTENANCES.
- CUT AND CAP GSHS/GSHR PIPES AT CEILING AND FLOOR LEVELS IN THE MECHANICAL ROOM.
- REMOVE GSP-1/2 FROM THE MECHANICAL ROOM.
- KEEP ALL OUTSIDE AIR DUCTWORK AND ASSOCIATED APPURTENANCES.



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**SUMMERVILLE TOWN HALL**  
200 SOUTH MAIN ST  
SUMMERVILLE, SC 29483  
PROJECT TITLE

**MECH DEMO- 1ST AND 2ND FLR**  
DRAWING TITLE

SHEET NUMBER  
**MD1** OF 9

CAD FILE NAME:  
**15065MD1**

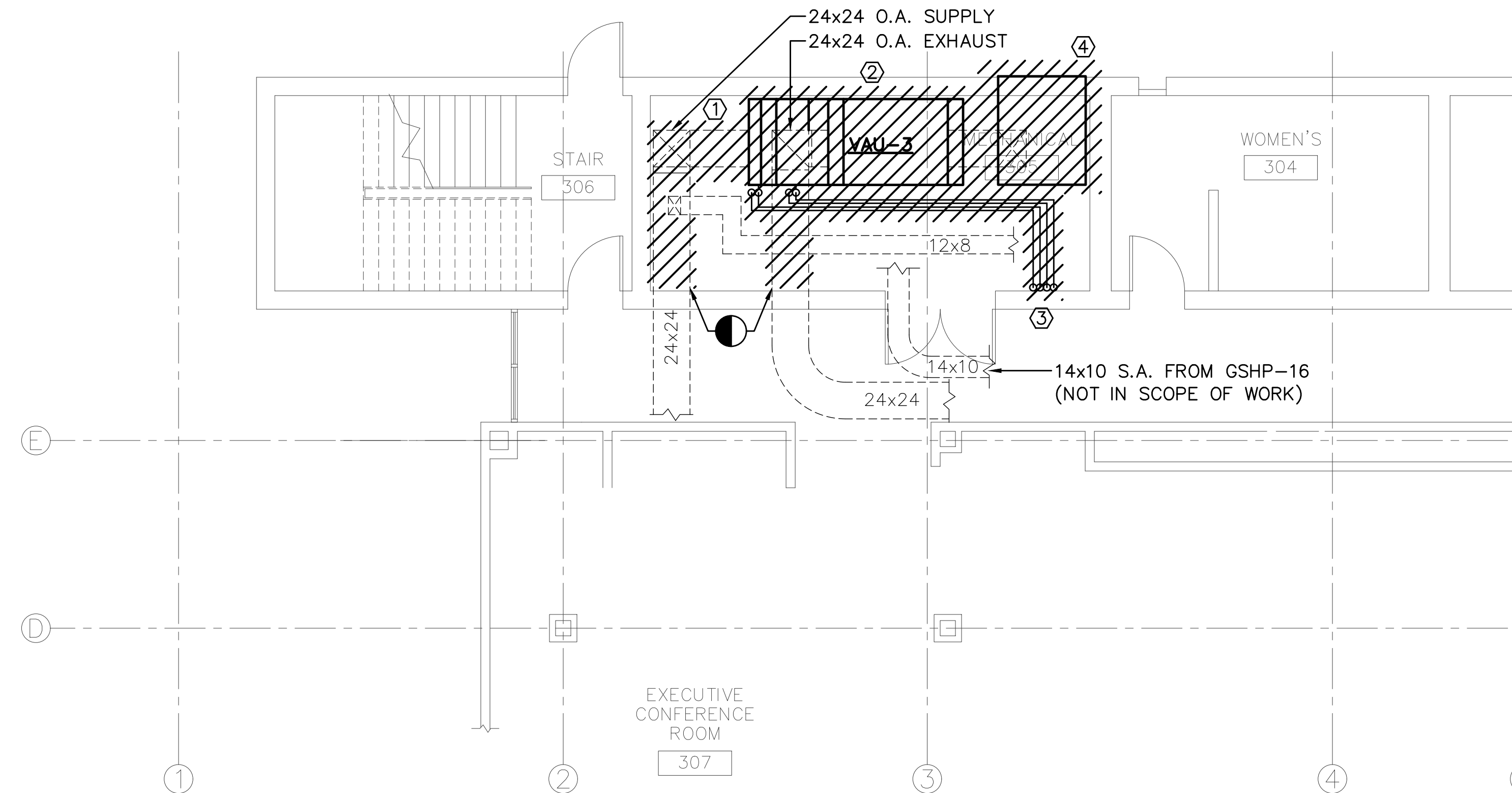
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**GENERAL DEMOLITION NOTES**

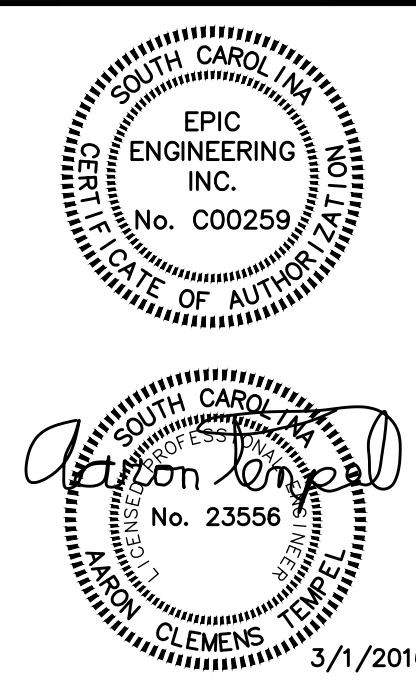
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- ALL WORK SHALL BE ACCOMPLISHED IN A MANNER THAT WILL CAUSE THE LEAST DISRUPTION TO NORMAL BUILDING OPERATIONS.

**KEYED NOTES (THIS SHEET ONLY)**

- DEMOLISH DUCTWORK AND ASSOCIATED APPURTENANCES.
- DEMOLISH VAV-3 AND ASSOCIATED APPURTENANCES.
- DEMOLISH REFRIG. LINES AND ASSOCIATED APPURTENANCES.
- DEMOLISH LOUVER, PLENUM BOX AND ASSOCIATED APPURTENANCES. BLANK OFF WALL OPENING WITH 16" GA SHEET METAL, INSULATE WITH 1"-THICK CLOSED CELL EPDM ELASTOMETRIC THERMAL INSULATION AS MANUFACTURED BY AEROCEL.



**MECHANICAL DEMOLITION PLAN – THIRD FLOOR**  
SCALE: 3/16"=1'-0"



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SUMMERVILLE, SC 29483  
PROJECT TITLE

<b>MECH DEMO- THIRD FLR/ROOF</b>	DRAWING TITLE
SCALE: 3/16"=1'	DATE: 8-3-15

SHEET NUMBER <b>MD2</b>	OF 9
CAD FILE NAME: <b>15065MD2</b>	

**NOTES**

- PROVIDE ALL MATERIALS AND LABOR FOR COMPLETE AND PROPERLY FUNCTIONING MECHANICAL SYSTEMS. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.
- WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF:
  - A: INTERNATIONAL MECHANICAL CODE – 2012
  - B: SMACNA
  - C: ASHRAE
  - D: ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES WHICH APPLY TO THIS WORK
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS.
- ALL MATERIALS, EQUIPMENT AND DEVICES SHALL MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.
- COORDINATE LOCATION OF MECHANICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
- INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN, PRINTED INSTRUCTIONS AND RECOMMENDATIONS.
- PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTIONS AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.
- MAKE CONNECTIONS FROM MECHANICAL EQUIPMENT TO DUCTWORK USING FLEXIBLE DUCT CONNECTIONS.
- ALL EQUIPMENT, PIPE AND DUCTWORK ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURE ABOVE.
- DUCT SIZES INDICATED ARE NET FREE INSIDE DIMENSIONS OF RECTANGULAR METAL DUCT. AT CONTRACTOR'S OPTION, EQUIVALENT SIZE ROUND DUCT MAY BE USED.
- PROVIDE FLOAT SWITCH IN ALL SECONDARY DRAIN PANS TO SHUT OFF UNITS WHEN DRAINS BECOME OBSTRUCTED.
- FURNISH AND INSTALL ALL MANUAL DAMPERS INDICATED ON DRAWINGS OR NECESSARY TO PROPERLY DISTRIBUTE AND BALANCE AIR. ALL INACCESSIBLE VOLUME DAMPERS SHALL BE PROVIDED WITH REMOTE CONCEALED DAMPER REGULATORS.
- BALANCE SYSTEM TO AIR FLOWS SHOWN ON FLOOR PLAN. PROVIDE TEST AND BALANCE REPORT TO ENGINEER FOR APPROVAL.
- WHERE PIPES PENETRATE FIRE RATED WALLS, FLOORS OR CEILING, SEAL OPENING AROUND PIPES WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE WALL, FLOOR OR CEILING IN ACCORDANCE WITH U.L. LISTED DESIGN. SUBMIT U.L. DESIGN FOR FIRE RATED PENETRATIONS SEALS TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO START OF WORK.
- ALL BUILDING PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION DETAILS.
- PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH IBC 2012. SUBMIT SHOP DRAWINGS FOR APPROVAL.
- ALL CONDENSATE PIPING SHALL BE INSULATED WITH 3/4" THICK CLOSED CELL EPDM ELASTOMERIC THERMAL INSULATION AS MANUFACTURED BY AEROCEL. ALL REFRIGERANT PIPING SHALL BE INSULATED WITH 1 1/2" THICK CLOSED CELL EPDM ELASTOMERIC THERMAL INSULATION AS MANUFACTURED BY AEROCEL.
- ALL DUCTWORK SHALL BE INSULATED WITH 3" THICK FIBERGLASS DUCT WRAP WITH FOIL FACE (OWENS CORNING TYPE 75 OR APPROVED EQUAL).
- ALL DUCTWORK SHALL BE GALVANIZED STEEL. ALL JOINTS AND SEAMS SHALL BE CLEANED, COATED AND SEALED WITH MASTIC OR MASTIC TAPE PRIOR TO APPLYING THE EXTERNAL INSULATION.
- SMOKE DETECTORS SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE FIRE ALARM CONTRACTOR TO THE FIRE ALARM SYSTEM ONLY. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING BETWEEN DOAU AND DETECTOR FOR UNIT SHUTDOWN.

FAN SCHEDULE	
MARK	EF-1
FAN TYPE	ROOFTOP DOWNBLAST EXHAUST
AIR QUANTITY – CFM	1000
EXT. S.P. – IN. W.G.	0.25
DRIVE	BELT
SONES (MAXIMUM)	13.4
MOTOR – HP (WATTS)	0.25
ELECTRICAL – V/ø/Hz	120/1/60
MANUFACTURER	COOK
MODEL NO.	ACEB100C3B
NOTES	1-4

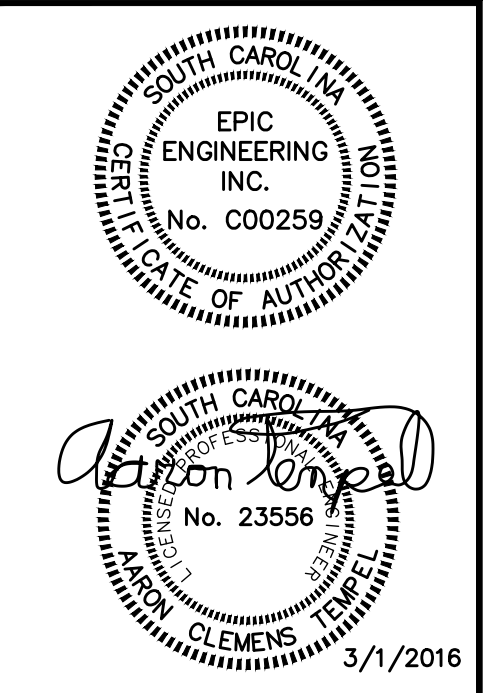
NOTES:  
 1. PROVIDE A UNIT MOUNTED DISCONNECT SWITCH, BACKDRAFT DAMPER AND FAN SPEED CONTROLLER.  
 2. PROVIDE COOK OR APPROVED EQUAL BY GREENHECK OR TWIN CITY.  
 3. FAN SHALL RUN CONTINUOUSLY.  
 4. PROVIDE WITH SEISMIC RATED ROOF CURB AND FLASHING. COORDINATE WITH GENERAL CONTRACTOR.

**LEGEND**

<input checked="" type="checkbox"/>	SUPPLY AIR (S.A.)
<input type="checkbox"/>	RETURN AIR (R.A.)
<input checked="" type="checkbox"/>	EXHAUST AIR (E.A.)
┌	MANUAL VOLUME DAMPER (VD)
⊕	THERMOSTAT
⊙	SMOKE DETECTOR
⊗	MOTORIZED DAMPER ACTUATOR
●	POINT OF CONNECTION TO EXISTING
○	POINT OF DISCONNECTION BETWEEN EXISTING TO REMAIN AND THAT TO BE REMOVED.
A/###	AIR DEVICE MARK/CFM
A.F.F.	ABOVE FINISH FLOOR
DOAU	DEDICATED OUTDOOR AIR UNIT
CD	CONDENSATE
DN.	DOWN
O.A.	OUTSIDE AIR
REFRIG.	REFRIGERANT
RG	RETURN AIR GRILL
TYP.	TYPICAL

DEDICATED OUTDOOR AIR HEAT PUMP SCHEDULE		
MARK	DOAU-1	
FAN	SUPPLY AIR – CFM	2,400
	OUTSIDE AIR – CFM (MAX)	2,400
	EXT. S.P. – IN. W.G.	1.0
	BLOWER MOTOR – HP (MIN.)	3.0
COOLING	TOTAL CAPACITY – MBTUH	240.0
	SENSIBLE CAPACITY – MBTUH	109.0
	ENT. AIR TEMP. – °F db/wb	95/80
	HOT GAS REHEAT – MBTUH	65.1
CONDENSING COOLING	AMBIENT AIR TEMP. – °F db	105
	COMPRESSORS – NO.	2
	COMPR. RLA/FAN MOTOR FLA	12.2/4.3
HEATING	HEATER TYPE	ELECTRIC
	HEATER INPUT – KW	36
	HEATING STAGES	SCR
ENERGY RECOVERY VENTILATOR	EXHAUST MOTOR – HP (MIN.)	3/4
	EXHAUST AIR VOLUME – CFM	1,100
	SUMMER EFFECTIVENESS	91%
	WINTER EFFECTIVENESS	91%
	MINIMUM CIRCUIT AMPACITY	4.78
	PROT. RTG. RECMD. (AMPS)	6.3
EER AT ARI	14.4	
ELECTRICAL – V/ø/Hz	480/3/60	
MINIMUM CIRCUIT AMPACITY	91	
PROT. RTG. RECMD. (AMPS)	100	
APPROXIMATE WEIGHT – LB.	4000	
MANUFACTURER	TRANE	
MODEL NO.	OCD180E	
NOTES	1-10	

NOTES:  
 1. EXTERNAL STATIC PRESSURE IS FOR DUCTWORK SYSTEM ONLY. FILTERS, COILS AND CASING LOSSES ARE INTERNAL.  
 2. BLOWERS SHALL BE DIRECT DRIVEN PLENUM FANS WITH VARIABLE FREQUENCY DRIVES.  
 3. PROVIDE A UNIT MOUNTED DISCONNECT SWITCH, ELECTRICAL CONVENIENCE RECEPTACLE, AND 2" PLEATED FILTERS CAPABLE OF FILTERING 100% OUTSIDE AIR.  
 4. PROVIDE WITH 12" HEIGHT MINIMUM (VERIFY WITH ACTUAL FIELD CONDITIONS) SEISMIC RATED ROOF CURB.  
 5. PROVIDE WITH DUAL POINT POWER CONNECTION.  
 6. PROVIDE STAINLESS STEEL DRAIN PAN.  
 7. PROVIDE DOUBLE WALL CONSTRUCTION WITH 2" FOAM INSULATION.  
 8. PROVIDE WITH CONTROLLER CAPABLE OF BEING ENABLED/DISABLED VIA OCCUPIED/UNOCCUPIED SCHEDULES AS PROGRAMMED IN THE UNIT CONTROLLER.  
 9. THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING THE OCCUPIED MODE. THE COMPRESSOR, REHEAT COIL, AND ELECTRIC HEATER SHALL STAGE AS REQUIRED TO PROVIDE A CONSTANT 72°F (ADJUSTABLE) LEAVING AIR TEMPERATURE IN THE COOLING MODE AND 68°F (ADJUSTABLE) LEAVING AIR TEMPERATURE IN THE HEATING MODE. THE COOLING COIL SHALL NEVER EXCEED 53°F.  
 10. PROVIDE WITH SEACOAST COIL COATING FOR THE CONDENSER AND EVAPORATOR COILS



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	DATE REVISION:	

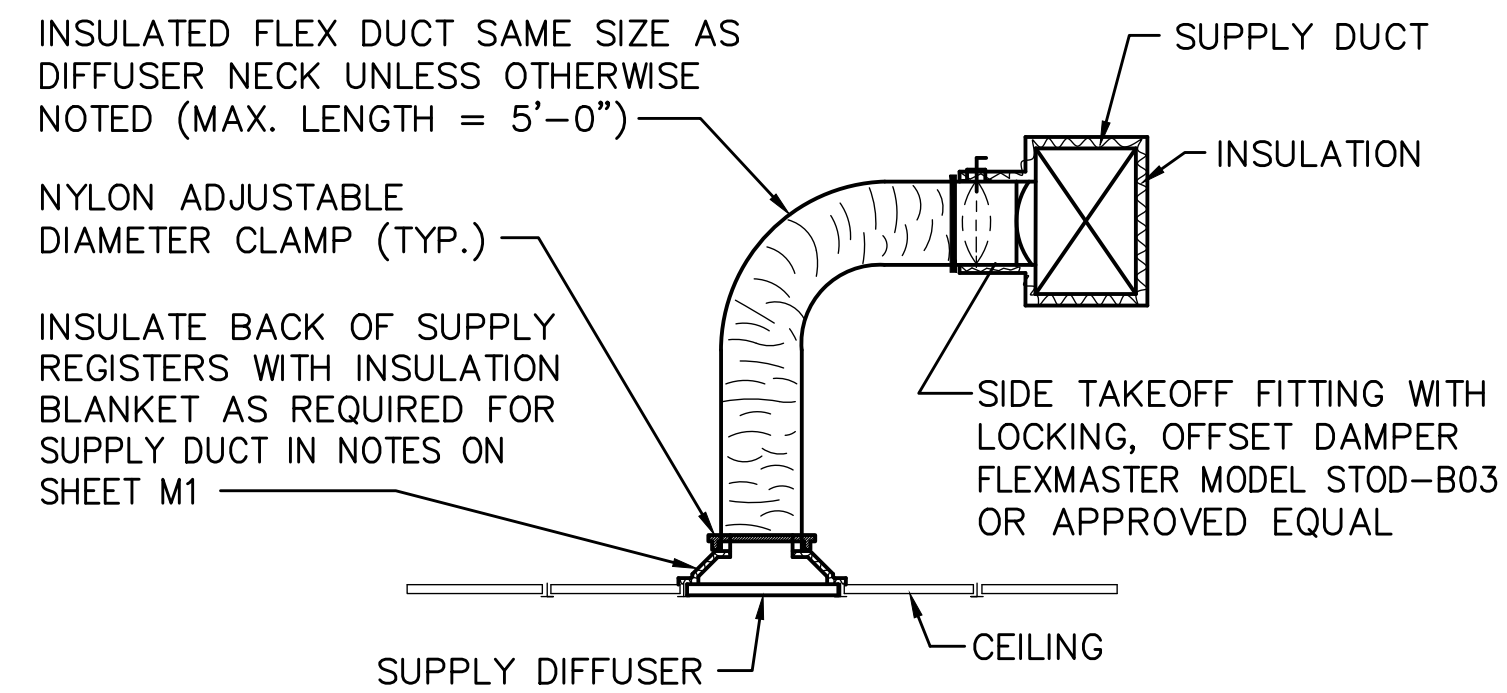
**SUMMERVILLE  
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SUMMERVILLE, SC 29483  
PROJECT TITLE

<b>NOTES, LEGEND, SCHEDULES</b>	DRAWING TITLE
	SCALE: NONE
	DATE: 8-3-15

SHEET NUMBER  
**M1** OF 9

CAD FILE NAME:  
**15065M1**

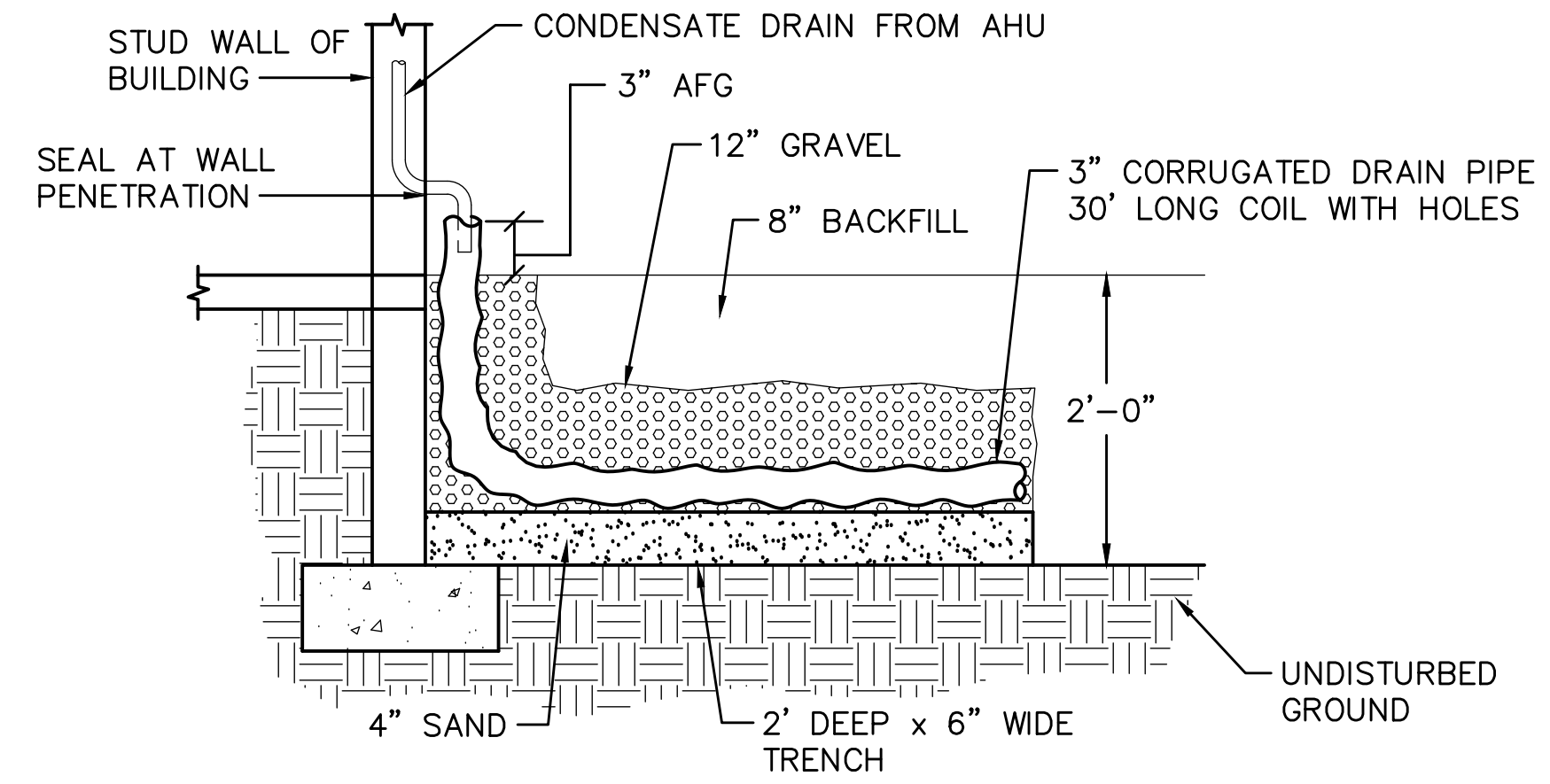
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- NOTE:  
 1. FLEXIBLE DUCT SHALL NOT BE USED FOR OFFSETS OR ELBOWS EXCEPT FOR FINAL TURN DOWN TO DIFFUSER NECK.

**TYPICAL FLEX DUCT AND SIDE TAKE-OFF FITTING DETAIL**

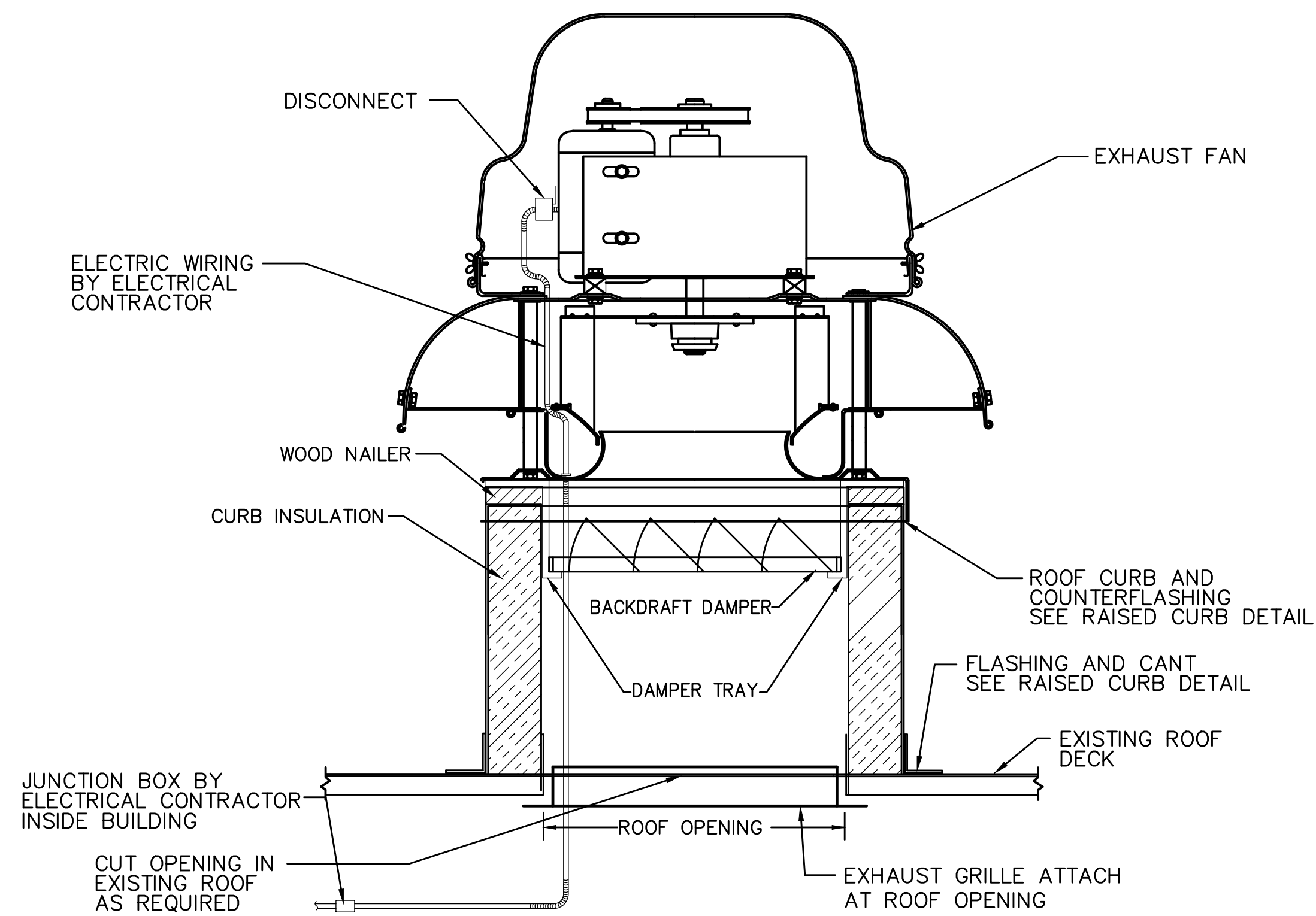
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- NOTES:  
 1. COORDINATE TO ENSURE THE CONDENSATE DRAIN FIELD IS LOCATED WITHIN PLANTERS. CONDENSATE DRAIN LINE SHALL BE FIELD SHIFTED AS REQUIRED.

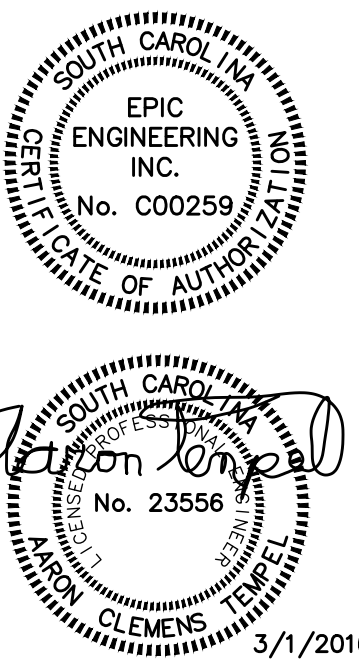
**CONDENSATE DRAIN FIELD DETAIL**

SCALE: NONE



**TYPICAL ROOF EXHAUST FAN MOUNTING DETAIL**

SCALE: NONE



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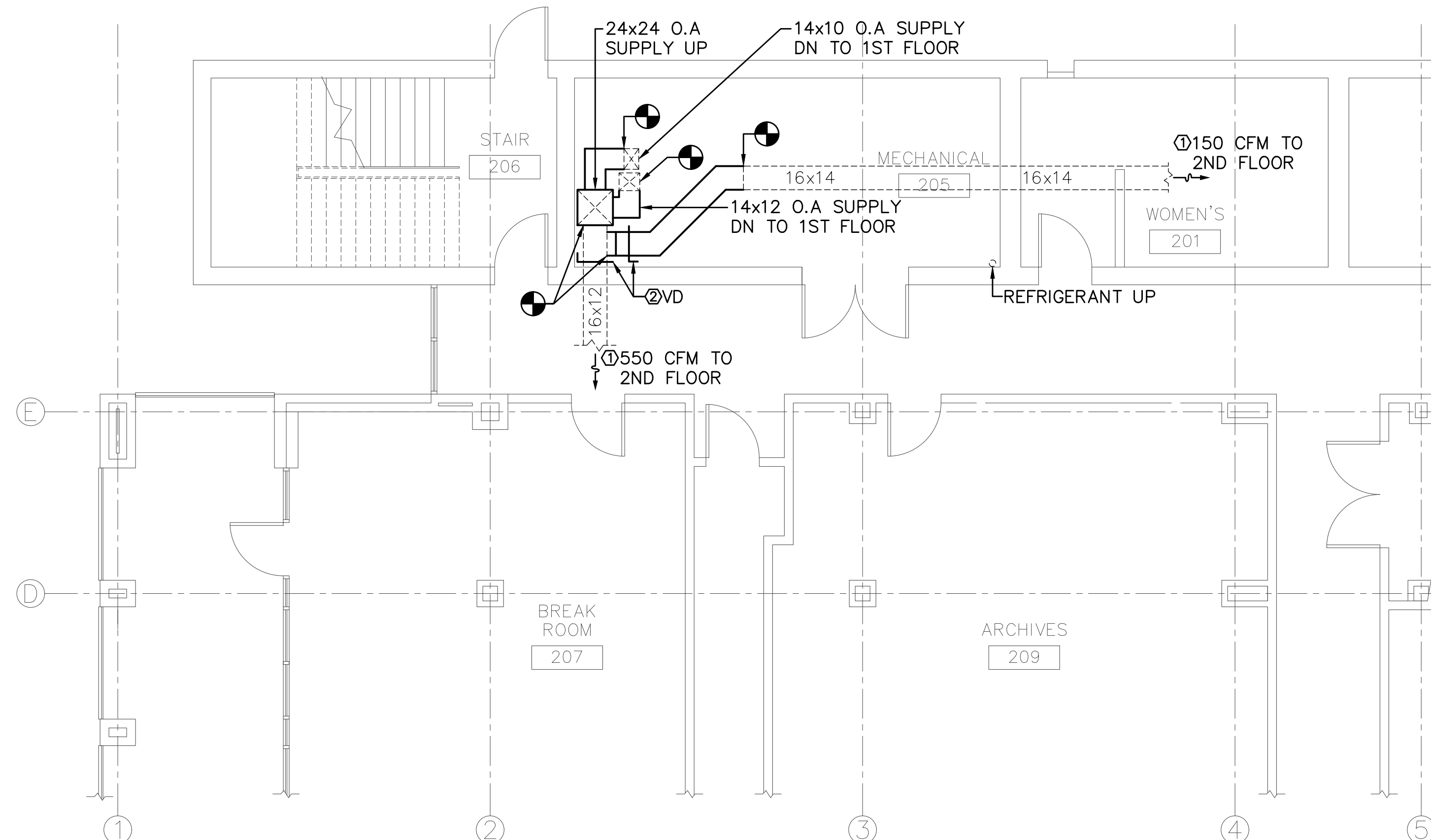
NO.	DESCRIPTION	DATE REVISION
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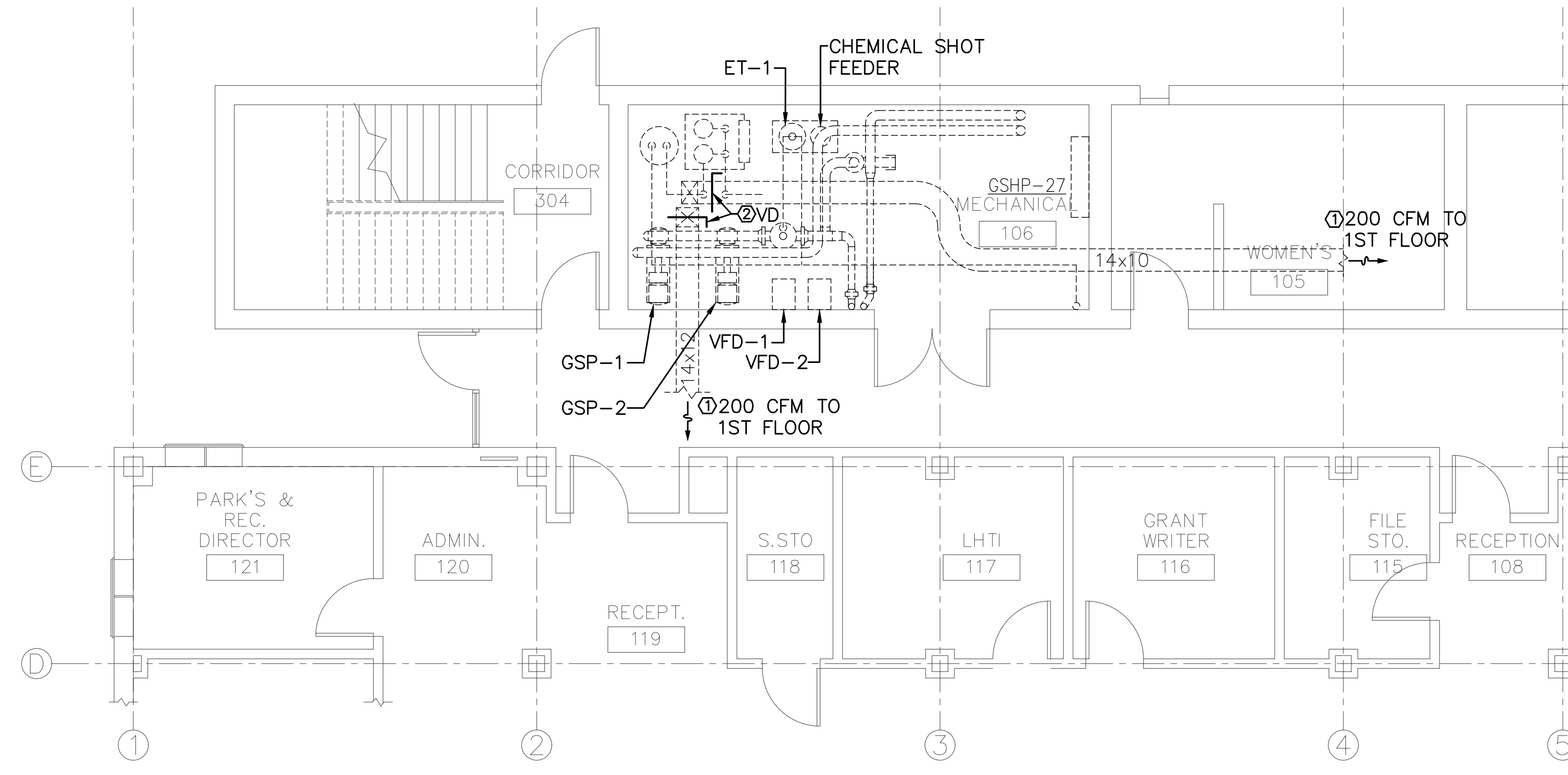
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SHEET NUMBER  
**M2** OF 9

CAD FILE NAME:  
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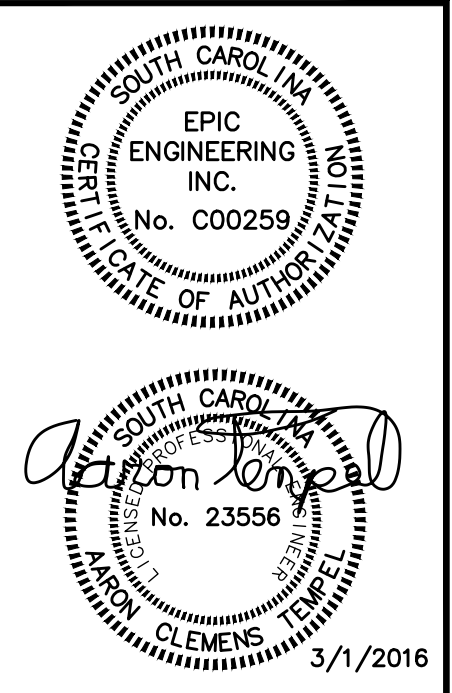
**MECHANICAL RENOVATION PLAN – SECOND FLOOR**  
SCALE: 3/16"=1'-0"



**MECHANICAL RENOVATION PLAN – FIRST FLOOR**  
SCALE: 3/16"=1'-0"

**KEYED NOTES (THIS SHEET ONLY)**

- ① BALANCE AIR FLOWS AS SHOWN ON THE PLAN.
- ② PROVIDE AND INSTALL VOLUME DAMPER, BALANCE AIR FLOWS AS SHOWN ON THE PLAN.



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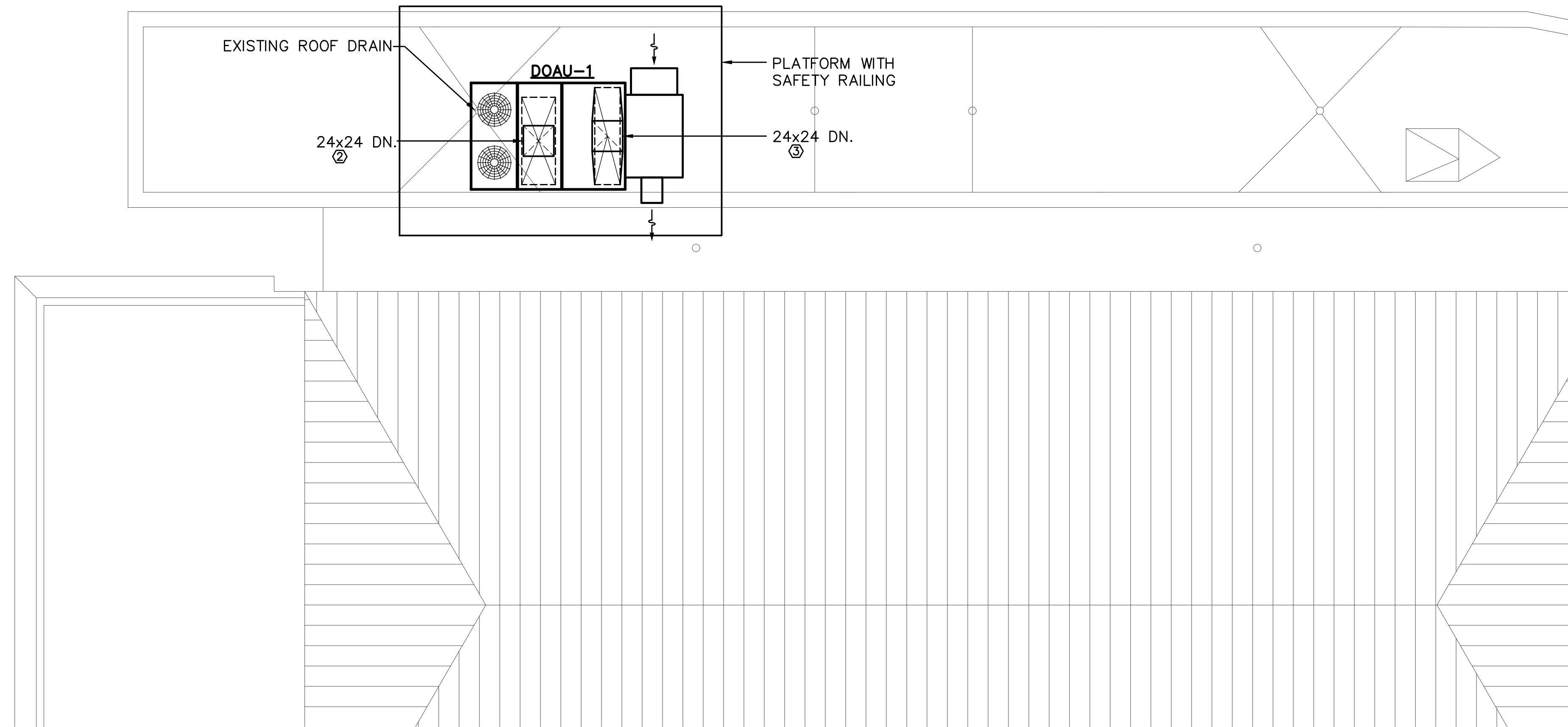
**SUMMERVILLE TOWN HALL**  
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PROJECT TITLE

**MECH RENO- 1ST AND 2ND FLR**  
DRAWING TITLE

SCALE: 3/16"=1'  
DATE: 8-3-15

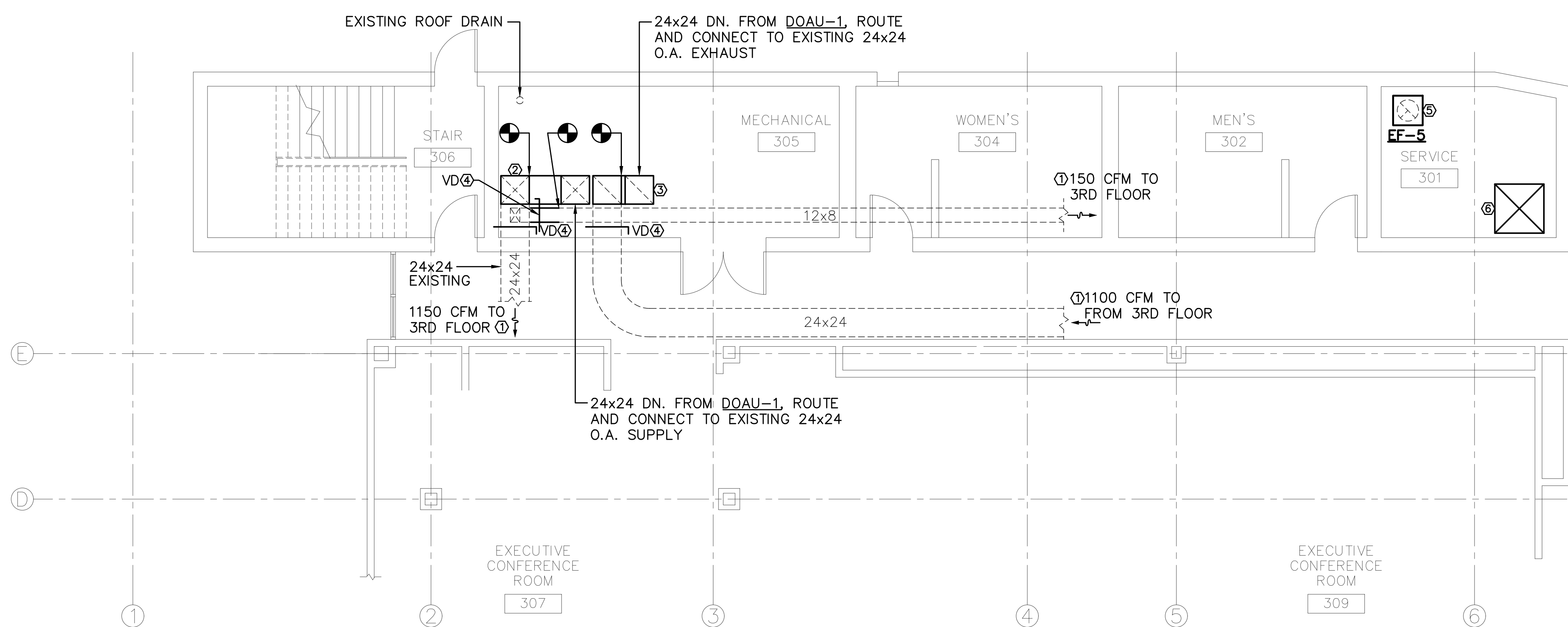
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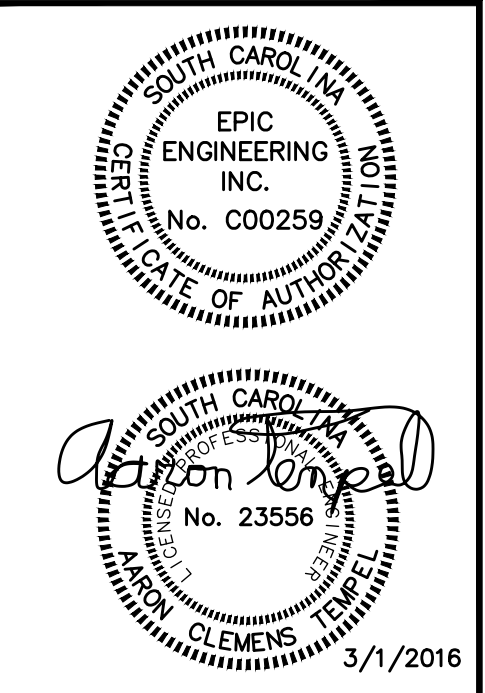


**MECHANICAL RENOVATION PLAN - ROOF**  
SCALE: 3/16"=1'-0"

- KEYED NOTES (THIS SHEET ONLY)**
- ① BALANCE AIR FLOW AS SHOWN ON THE PLAN.
  - ② 24x24 DUCT DOWN FROM DOAU-1, CONNECT TO EXISTING SUPPLY AIR.
  - ③ 24x24 DUCT DOWN FROM DOAU-1, CONNECT TO EXISTING RETURN AIR.
  - ④ PROVIDE AND INSTALL VOLUME DAMPER, BALANCE AIR FLOWS AS SHOWN ON THE PLAN.
  - ⑤ PROVIDE NEW ROOF TOP EXHAUST FAN, CONNECTION TO EXISTING 14x10 DUCTWORK.
  - ⑥ PROVIDE PERMANENT ACCESS LADDER IN EXISTING ROOF HATCH. SEE ARCHITECTURAL DETAIL ON SHEET A1.



**MECHANICAL RENOVATION PLAN - THIRD FLOOR**  
SCALE: 3/16"=1'-0"



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PROJECT TITLE

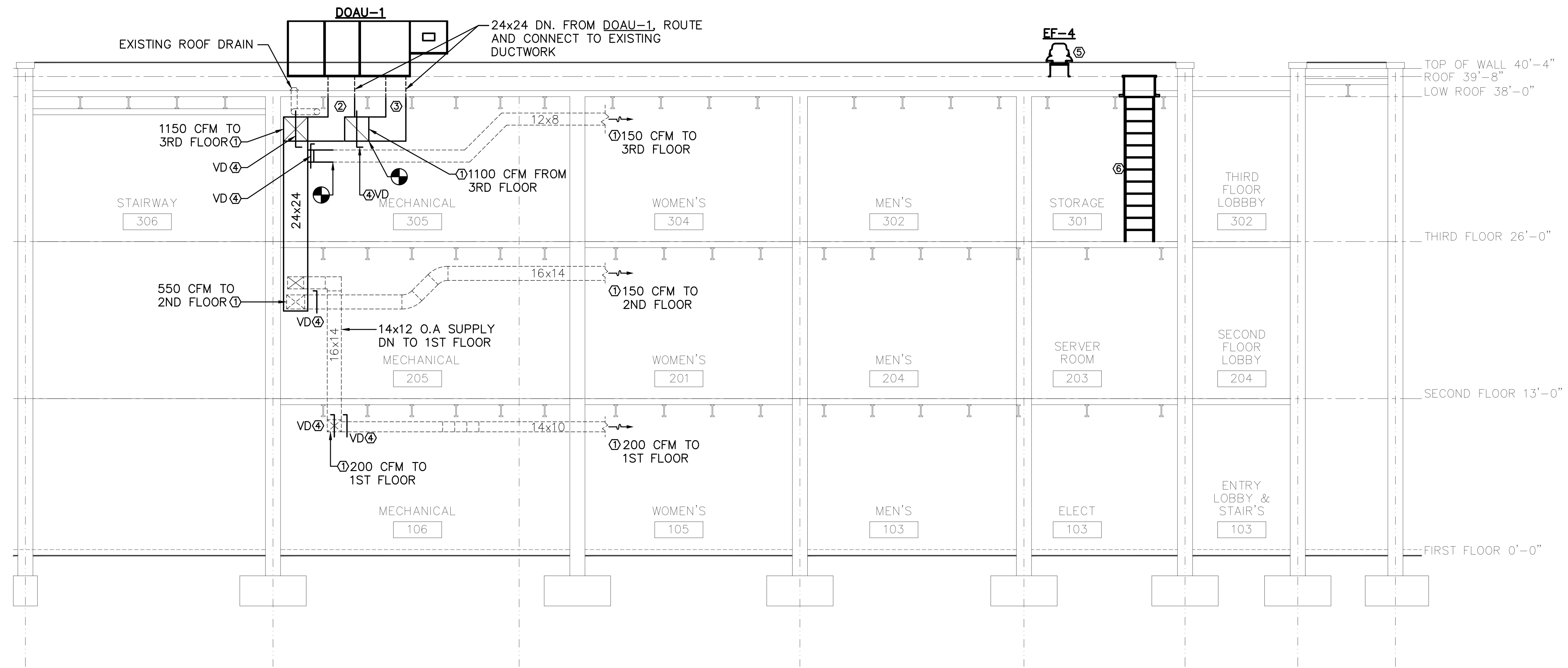
**MECH RENO-  
THIRD FLR/ROOF**  
DRAWING TITLE

SCALE: 3/16"=1'  
DATE: 8-3-15

SHEET NUMBER  
**M4** OF 9

CAD FILE NAME:  
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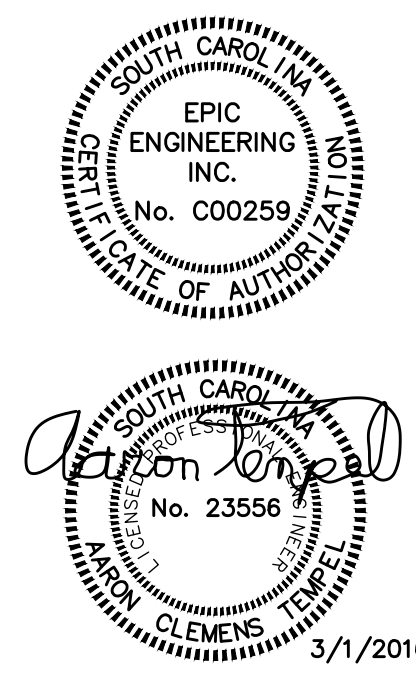




MECH PLAN - BUILDING SECTION  
SCALE: 3/16"=1'-0"

**KEYED NOTES (THIS SHEET ONLY)**

- ① BALANCE AIR FLOWS AS SHOWN ON THE PLAN.
- ② 24x24 DUCT DOWN FROM DOAU-1, CONNECT TO EXISTING SUPPLY AIR.
- ③ 24x24 DUCT DOWN FROM DOAU-1, CONNECT TO EXISTING RETURN AIR.
- ④ PROVIDE AND INSTALL VOLUME DAMPER, BALANCE AIR FLOWS AS SHOWN ON THE PLAN.
- ⑤ PROVIDE NEW ROOF TOP EXHAUST FAN, CONNECT TO THE EXISTING 14x10 DUCTWORK.
- ⑥ PROVIDE PERMANENT ACCESS LADDER IN EXISTING ROOF HATCH. SEE ARCHITECTURAL DETAIL ON SHEET A1.



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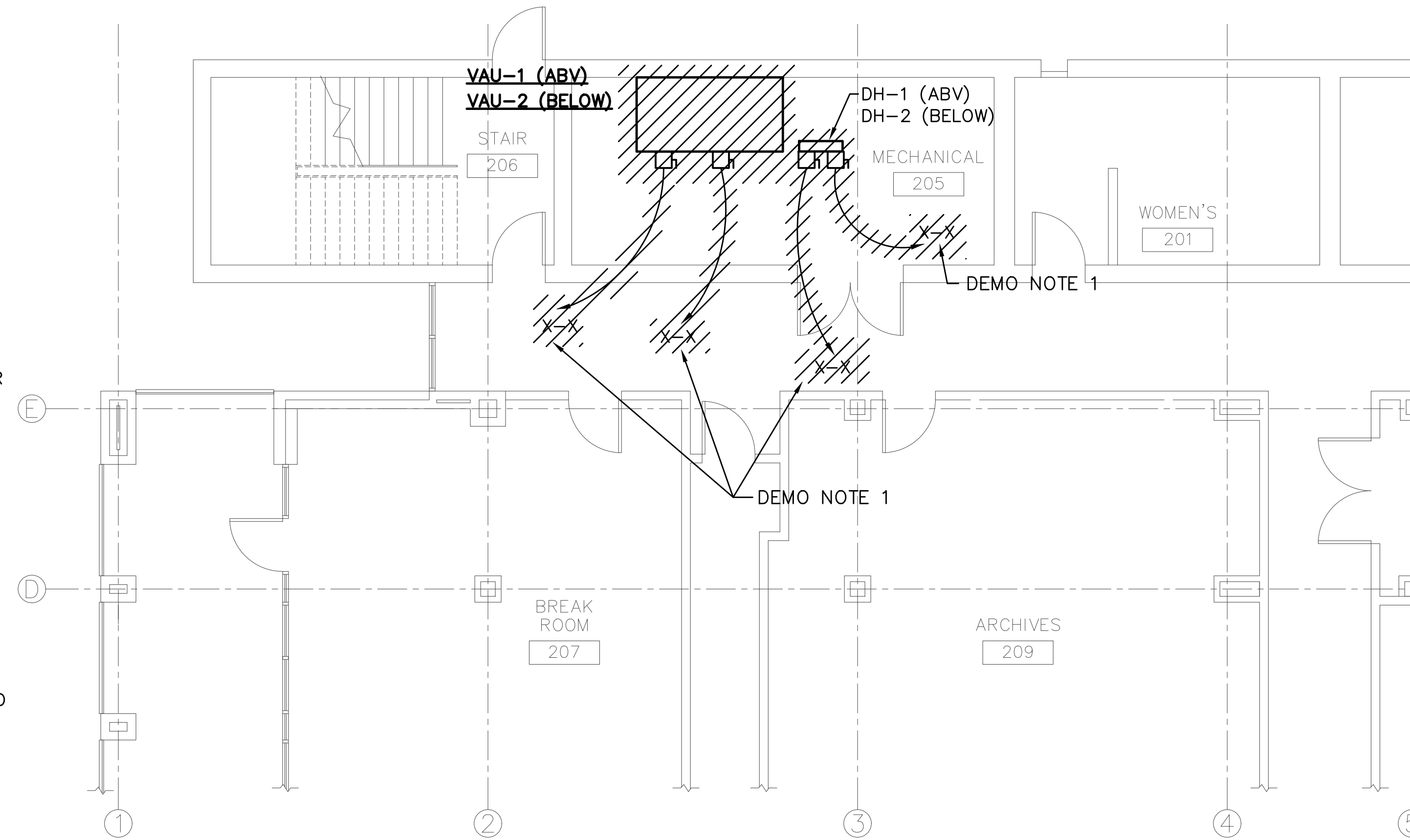
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PROJECT TITLE

<b>MECH PLAN - BUILDING SECTION</b>	
DRAWING TITLE	DATE: 8-3-15
SCALE: 3/16"=1'	

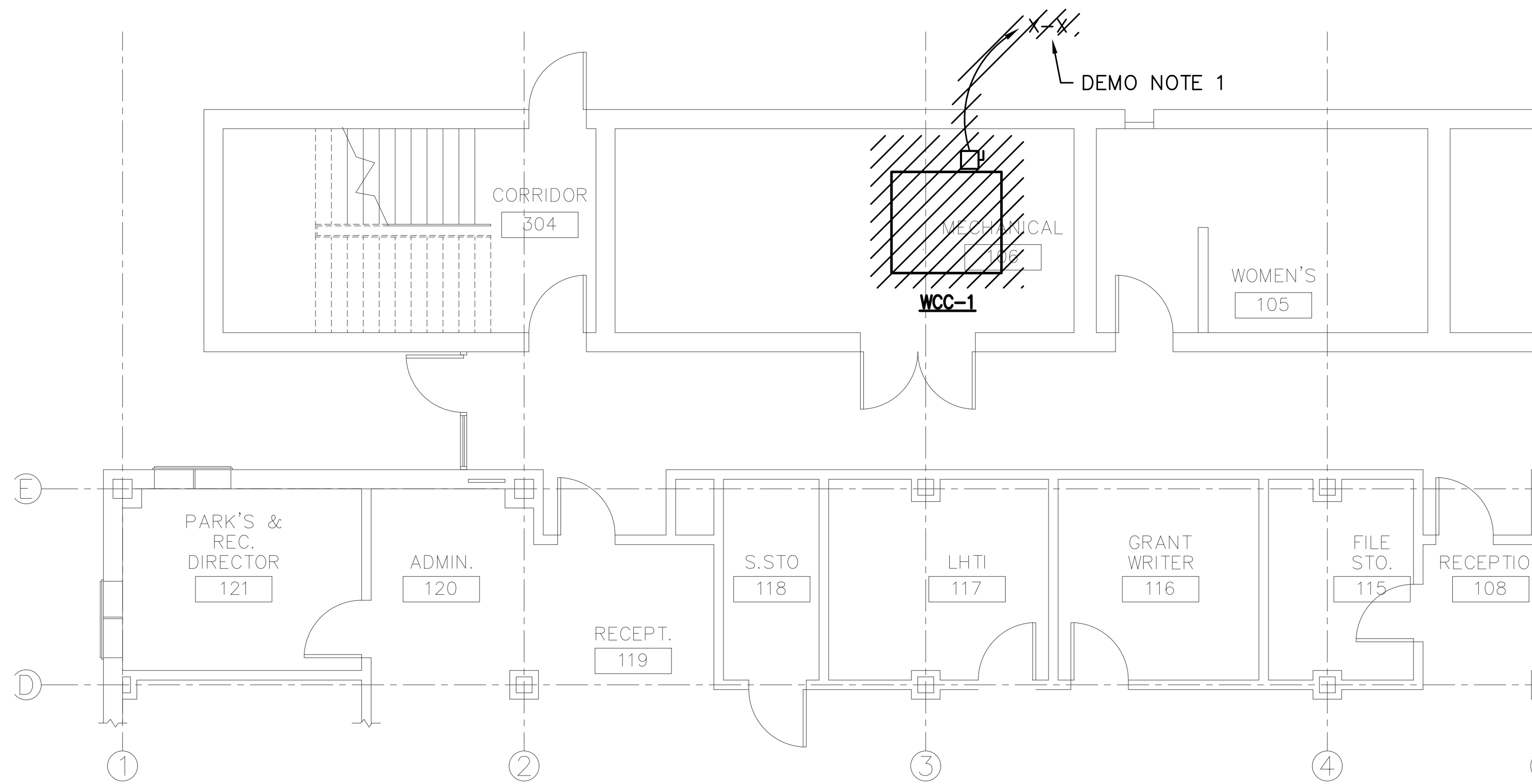
SHEET NUMBER	
<b>M5</b>	OF 9
CAD FILE NAME:	
<b>15065M5</b>	

**ELECTRICAL DEMOLITION NOTES**

1. THE DRAWINGS ARE REPRESENTATIONAL AND INDICATE THE INTENT OF THE RENOVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO VERIFY EXISTING CONDITIONS AND TO ESTABLISH THE SCOPE OF WORK.
2. THE PLANS SHOW ONLY THOSE DEVICES THAT ARE INCLUDED IN THE DEMOLITION WORK.
3. REMOVE ALL EQUIPMENT SHOWN UNLESS NOTED OTHERWISE.
4. REMOVE ALL WIRE AND RACEWAYS ASSOCIATED WITH REMOVED EQUIPMENT. WHERE RACEWAYS ARE CONCEALED, REMOVE WIRE AND CUT RACEWAY FLUSH WITH WALL, CEILING OR FLOOR, AND ABANDON. PATCH AND FINISH AREAS TO MATCH EXISTING SURFACES.
5. THE BID SHALL BE BASED ON REMOVING AND/OR REPLACING ALL EQUIPMENT, WIRING AND CONDUIT SHOWN UNLESS NOTED OTHERWISE. IF EXISTING EQUIPMENT, WIRING OR CONDUIT IS REUSED, THE CONTRACTOR'S PRICE WILL BE ADJUSTED ACCORDINGLY.
6. EXISTING WIRE AND CONDUIT MAY BE REUSED WHERE IT IS FOUND TO BE IN GOOD CONDITION.
7. ALL EXISTING EQUIPMENT THAT WILL BE REUSED SHALL BE CLEANED AND SERVICED PRIOR TO REUSE.
8. ALL REMOVED DEVICES, NOT SHOWN TO BE REUSED, SHALL REMAIN THE PROPERTY OF THE OWNER. THEY MAY BE REUSED IF THE CONDITION IS ACCEPTABLE TO THE OWNER.
9. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR.
10. COORDINATE PATCHING OF EXISTING FINISHED WALLS AND CEILINGS TO BE PERFORMED BY THE GENERAL CONTRACTOR.
11. WHERE WALLS ARE INDICATED TO BE REMOVED, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES AND WIRING WITHIN THESE WALLS. ELECTRICAL CIRCUITS AFFECTED BY WALL REMOVAL SHALL BE REROUTED OR PROPERLY TERMINATED TO MAINTAIN CIRCUIT CONTINUITY TO REMAINING DEVICES. SEE ARCHITECTURAL DRAWINGS FOR WALL DEMOLITION.
12. EXTEND EXISTING BRANCH CIRCUITS TO RELOCATED AND NEW DEVICES AND CONNECT. WHERE NEW DEVICES ARE ADDED TO AN EXISTING BRANCH CIRCUIT VERIFY THAT THE CIRCUIT WILL HAVE NO MORE THAN 1800 WATTS FOR 120 VOLT SYSTEM.
13. CIRCUIT NUMBERS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCING WORK.
14. UPDATE PANEL DIRECTORIES.
15. ALL WORK SHALL BE ACCOMPLISHED IN A MANNER THAT WILL CAUSE THE LEAST DISRUPTION TO NORMAL BUILDING OPERATIONS.



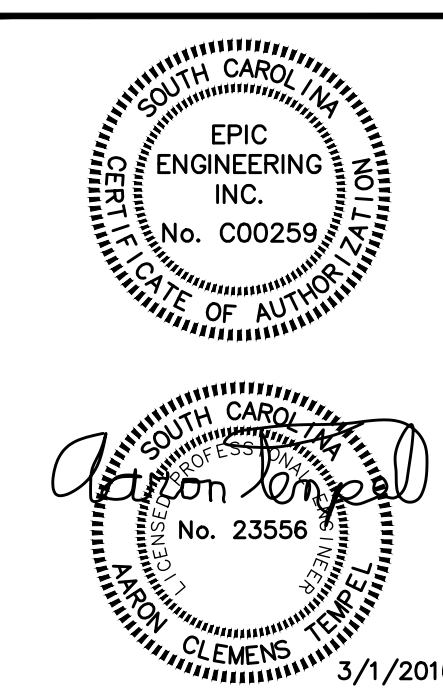
**ELECTRICAL DEMOLITION PLAN – SECOND FLOOR**  
SCALE: 3/16"=1'-0"



**ELECTRICAL DEMOLITION PLAN – FIRST FLOOR**  
SCALE: 3/16"=1'-0"

**DEMOLITION NOTES (THIS SHEET ONLY)**

1. REMOVE EXISTING CIRCUITRY AND DISCONNECT FOR HVAC EQUIPMENT COMPLETE BACK TO RESPECTIVE BREAKER IN APPROPRIATE PANEL. CIRCUIT BREAKERS SHALL BE MARKED AS "SPARE".



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	DATE REVISION:	
3	DESCRIPTION:	
	DATE REVISION:	

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PROJECT TITLE

**ELEC. DEMO- 1ST AND 2ND FLR**  
DRAWING TITLE  
SCALE: 3/16"=1'  
DATE: 8-3-15

SHEET NUMBER  
**ED1** OF 4

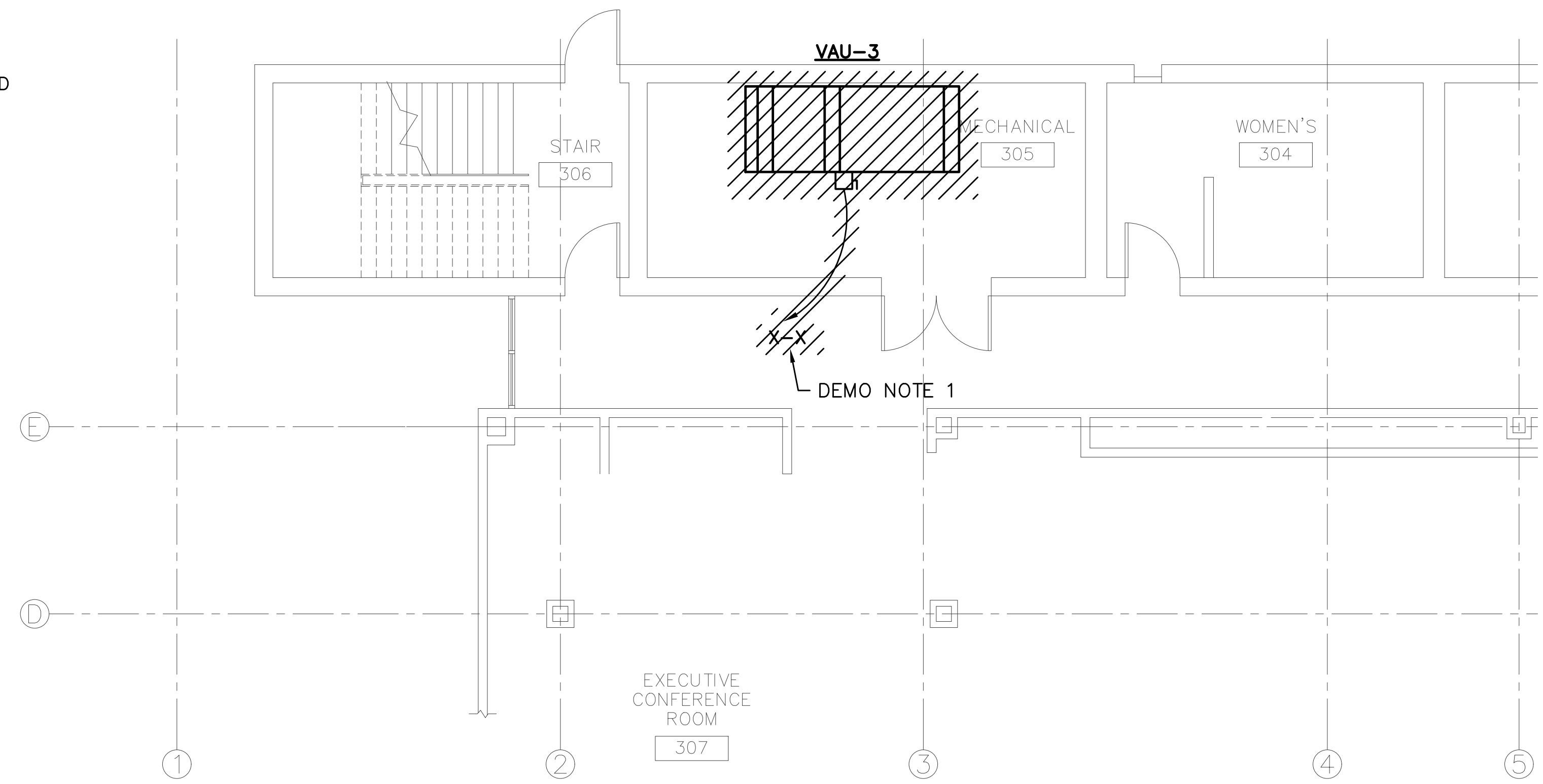
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**ELECTRICAL DEMOLITION NOTES**

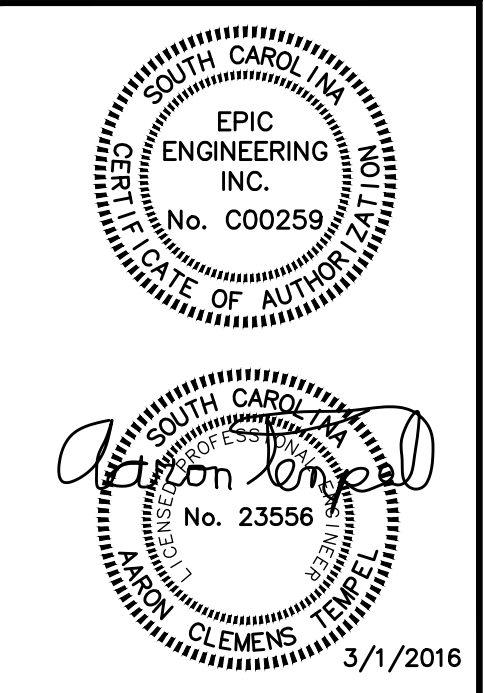
1. THE DRAWINGS ARE REPRESENTATIONAL AND INDICATE THE INTENT OF THE RENOVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO VERIFY EXISTING CONDITIONS AND TO ESTABLISH THE SCOPE OF WORK.
2. THE PLANS SHOW ONLY THOSE DEVICES THAT ARE INCLUDED IN THE DEMOLITION WORK.
3. REMOVE ALL EQUIPMENT SHOWN UNLESS NOTED OTHERWISE.
4. REMOVE ALL WIRE AND RACEWAYS ASSOCIATED WITH REMOVED EQUIPMENT. WHERE RACEWAYS ARE CONCEALED, REMOVE WIRE AND CUT RACEWAY FLUSH WITH WALL, CEILING OR FLOOR, AND ABANDON. PATCH AND FINISH AREAS TO MATCH EXISTING SURFACES.
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13. CIRCUIT NUMBERS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCING WORK.
14. UPDATE PANEL DIRECTORIES.
15. ALL WORK SHALL BE ACCOMPLISHED IN A MANNER THAT WILL CAUSE THE LEAST DISRUPTION TO NORMAL BUILDING OPERATIONS.

**DEMOLITION NOTES (THIS SHEET ONLY)**

1. REMOVE EXISTING CIRCUITRY AND DISCONNECT FOR HVAC EQUIPMENT COMPLETE BACK TO RESPECTIVE BREAKER IN APPROPRIATE PANEL. CIRCUIT BREAKERS SHALL BE MARKED AS "SPARE".



**ELECTRICAL DEMOLITION PLAN – THIRD FLOOR**  
SCALE: 3/16"=1'-0"



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

<b>ELEC DEMO - THIRD FLOOR</b>	
DRAWING TITLE	DATE: 8-3-15
SCALE: 3/16"=1'	

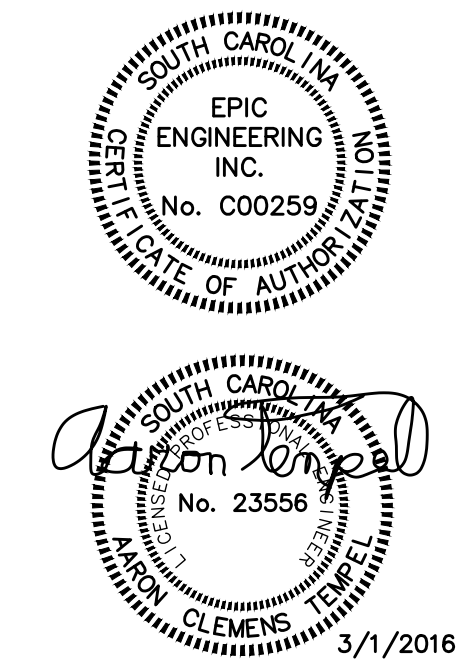
SHEET NUMBER	
<b>ED2</b>	OF 4
CAD FILE NAME:	
<b>15065ED2</b>	

**GENERAL ELECTRICAL NOTES**

1. FURNISH ALL MATERIALS AND LABOR NECESSARY TO PROVIDE COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEMS. FURNISH ALL MATERIALS AND LABOR NECESSARY TO DEMONSTRATE TO THE OWNER AND TO THE ENGINEER THAT ALL SYSTEMS ARE OPERATING PROPERLY AND AS SPECIFIED. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.
2. WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF:
  - A. ANSI/NFPA 70 (NATIONAL ELECTRICAL CODE)
  - B. NECA STANDARD OF INSTALLATION
  - C. INTERNATIONAL BUILDING CODE
  - D. NFPA 101 (LIFE SAFETY CODE)
  - E. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES
  - F. LOCAL UTILITY COMPANY REGULATIONS
3. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL, AS A MINIMUM, MEET THE REQUIREMENTS OF U.L. WHERE U.L. STANDARDS ARE ESTABLISHED FOR THOSE ITEMS, AND THE REQUIREMENTS OF NFPA 70. ALL ITEMS SHALL BE CLASSIFIED BY U.L. AS SUITABLE FOR THE PURPOSE USED.
4. COORDINATE LOCATION OF ELECTRICAL DEVICES AND ELECTRICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
5. PROVIDE THE INTERCONNECTING POWER WIRING AND CONDUIT, CONTROL WIRING RATED 120 VOLTS (NOMINAL) AND CONDUIT, AND THE ELECTRICAL POWER CIRCUITS FOR ALL EQUIPMENT PROVIDED BY OTHER TRADES.
6. COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM THE AUTHORITY HAVING JURISDICTION, AND INCLUDE ALL FEES IN BID.
7. PROVIDE A LAMINATED PLASTIC NAMEPLATE FOR EACH MAJOR ITEM OF ELECTRICAL EQUIPMENT (E.G. PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS, ETC.). ATTACH WITH SCREWS, BOLTS OR RIVETS.
8. PROVIDE ALL PANELS WITH TYPED DIRECTORIES SHOWING AS-BUILT CONDITIONS AND LABEL ALL CIRCUITS.
9. THE NEUTRAL AND GROUND BUS SHALL BE BONDED TOGETHER AT THE SERVICE EQUIPMENT AND AT ANY DOWNSTREAM TRANSFORMERS WHICH CONSTITUTE A SEPARATELY DERIVED SYSTEM. THE GROUNDING CONDUCTOR SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM, WHICH SHALL BE COMPRISED OF A 3/4" X 10' DRIVEN GROUND ROD, METALLIC PIPING, BUILDING STEEL, ETC. ALL SUBPANELS SHALL HAVE INSULATED NEUTRALS PER N.E.C. ARTICLE 250.
10. ALL 120V CIRCUITS SHALL BE COMPRISED OF AN UNGROUNDED CONDUCTOR AND AN INSULATED NEUTRAL. THERE WILL BE NO SHARING OF NEUTRALS.
11. ALL WIRING SHALL BE COPPER, 600 VOLT, WITH THHN/THWN INSULATION INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG FOR POWER AND LIGHTING CIRCUITS AND #16 AWG FOR CONTROL CIRCUITS UNLESS NOTED OTHERWISE.
12. UNLESS NOTED OTHERWISE, CONDUITS SHALL BE:
  - A. ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR LOCATIONS.
  - B. SCHEDULE 40 PLASTIC CONDUIT (PVC) FOR EXTERIOR LOCATIONS.
  - C. RIGID GALVANIZED STEEL (RGS) CONDUIT WHERE EXPOSED TO PHYSICAL DAMAGE.
13. ALL CONDUIT ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS OR CONCRETE DECKING, NOT FROM CEILING GRID OR GRID HANGER WIRES.
14. PROVIDE ALL MOUNTING BRACKETS, HANGERS, CLIPS, ETC. AS NECESSARY TO MOUNT AND SECURE LIGHT FIXTURES IN LOCATIONS SHOWN AND AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INTENDED.
15. WHERE CONDUIT PENETRATES FIRE RATED BARRIERS (WALLS, FLOORS AND CEILINGS), SEAL THE OPENING AROUND THE CONDUIT WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE BARRIER.
16. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK WHERE POSSIBLE; COORDINATE ALL PENETRATIONS WITH ARCHITECT.
17. MAKE ARRANGEMENTS WITH THE POWER COMPANY TO OBTAIN PERMANENT ELECTRICAL SERVICE TO THE PROJECT. PROVIDE SERVICE ENTRANCE AND PROVISIONS FOR METERING IN ACCORDANCE WITH THE POWER COMPANY'S REQUIREMENTS. INCLUDE ALL FEES IN BID.
18. MAKE ARRANGEMENTS WITH THE POWER COMPANY AND PROVIDE TEMPORARY ELECTRICAL SERVICE TO THE PROJECT FOR CONSTRUCTION POWER. INCLUDE ALL FEES IN BID.
19. PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH IBC 2012. SUBMIT SHOP DRAWINGS FOR APPROVAL.

**LEGEND**

-  DISCONNECT SWITCH, UNLESS NOTED OTHERWISE RATING SHALL BE 240V, 30 AMP/2 POLE/NEMA 1/NON FUSED (30/2/1/NF). 20AF - INDICATES 20 AMP FUSE. (FUSES SHALL BE DUAL ELEMENT, TIME DELAY, CURRENT LIMITING).
-  480/277V, POWER PANEL
-  GROUNDING CONNECTION/DEVICE.
-  BRANCH CIRCUIT, ARROW INDICATES HOMERUN, CROSS LINES INDICATE NUMBER OF CONDUCTORS, GROUNDING CONDUCTOR IS NOT SHOWN BUT SHALL BE PROVIDED IN ALL CIRCUITS (2#12, 1#12G, 1/2"C UNLESS NOTED OTHERWISE).



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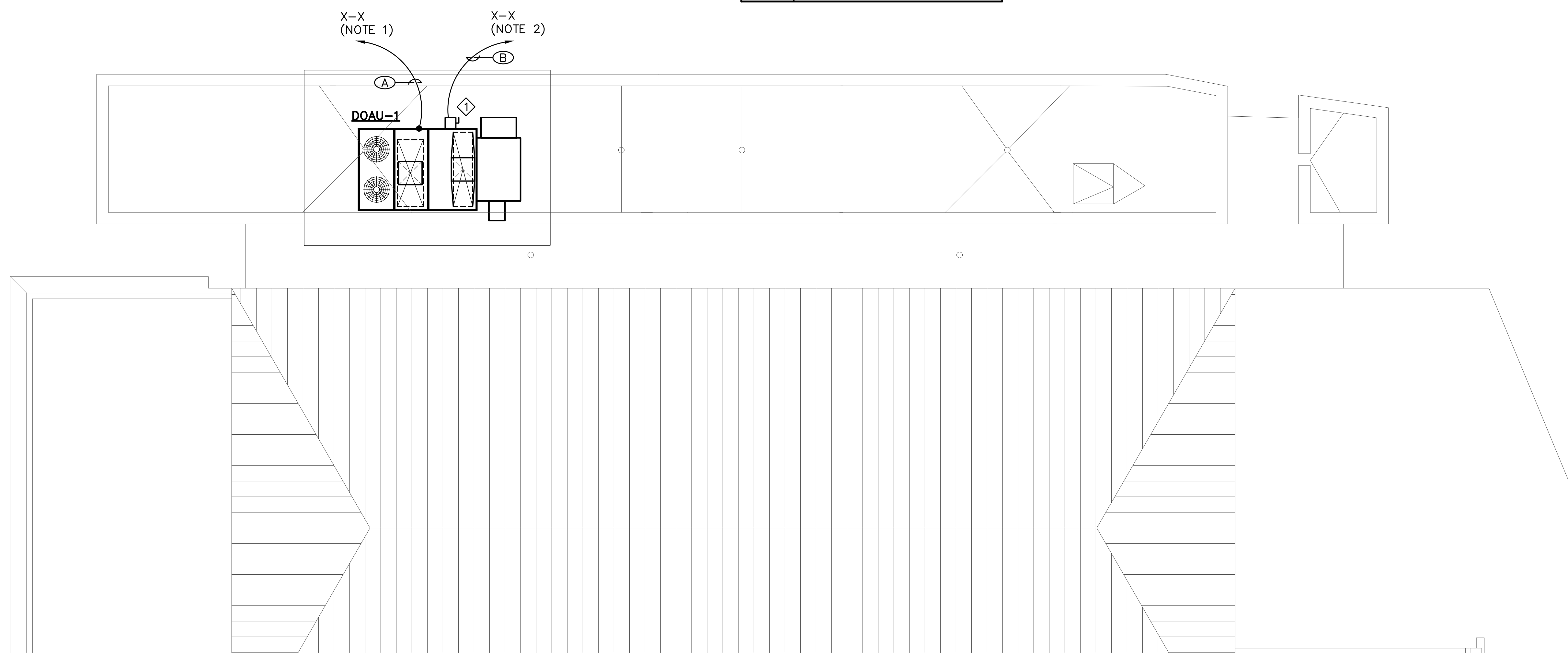
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TOWN HALL  
200 SOUTH MAIN ST  
SUMMERVILLE, SC 29483**  
PROJECT TITLE

<b>NOTES AND LEGEND</b>	DRAWING TITLE
	SCALE: NONE
	DATE: 8-3-15

SHEET NUMBER  
**E1** OF 4

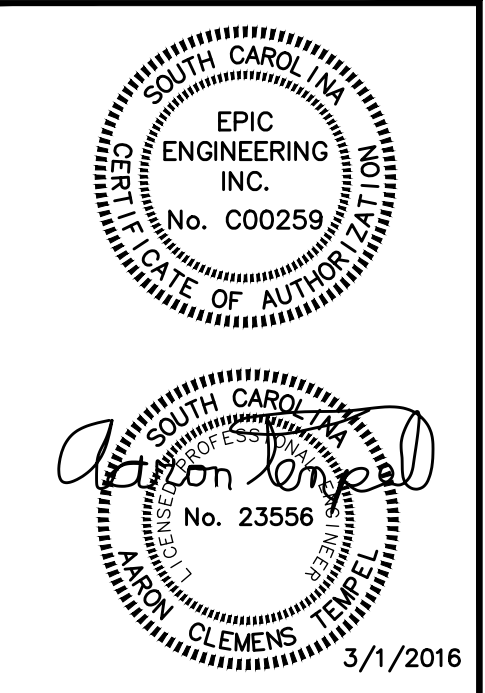
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**15065E1**



WIRE & CONDUIT SCHEDULE (THIS SHEET ONLY)	
SYMBOL	DESCRIPTION
(A)	3#2, 1#8N, 1#8G, 1 1/2" C
(B)	3#12, 1#12N, 1#12G, 1/2" C

DISCONNECT SWITCH SCHEDULE (THIS SHEET ONLY)	
SYMBOL	DESCRIPTION
◇	480V, 30/3/3R/NF

- GENERAL NOTES (THIS SHEET ONLY)**
1. PROVIDE NEW 480V, 100A, 3P CIRCUIT BREAKER IN EXISTING 480V, 3Ø PANEL "MECH 3" LOCATED IN SERVICE ROOM 301 ON THIRD FLOOR. UPDATE PANEL DIRECTORY ACCORDINGLY.
  2. PROVIDE NEW 480V, 15A, 3P CIRCUIT BREAKER IN EXISTING 480V, 3Ø PANEL "MECH 3" LOCATED IN SERVICE ROOM 301 ON THIRD FLOOR. UPDATE PANEL DIRECTORY ACCORDINGLY.



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P.O. BOX 2132 • MT. PLEASANT, SC 29465 (843) 848-8878 • EPIC JOB NO. 15065 EPIC ENGINEERING, INC. IS AN EQUAL OPPORTUNITY EMPLOYER OR USE IS PROHIBITED AND SUBJECT TO LEGAL PROSECUTION	
DESIGNED BY: RWM	APPROVED BY: ACT
DRAWN BY: RWM	CHECKED BY: ACT

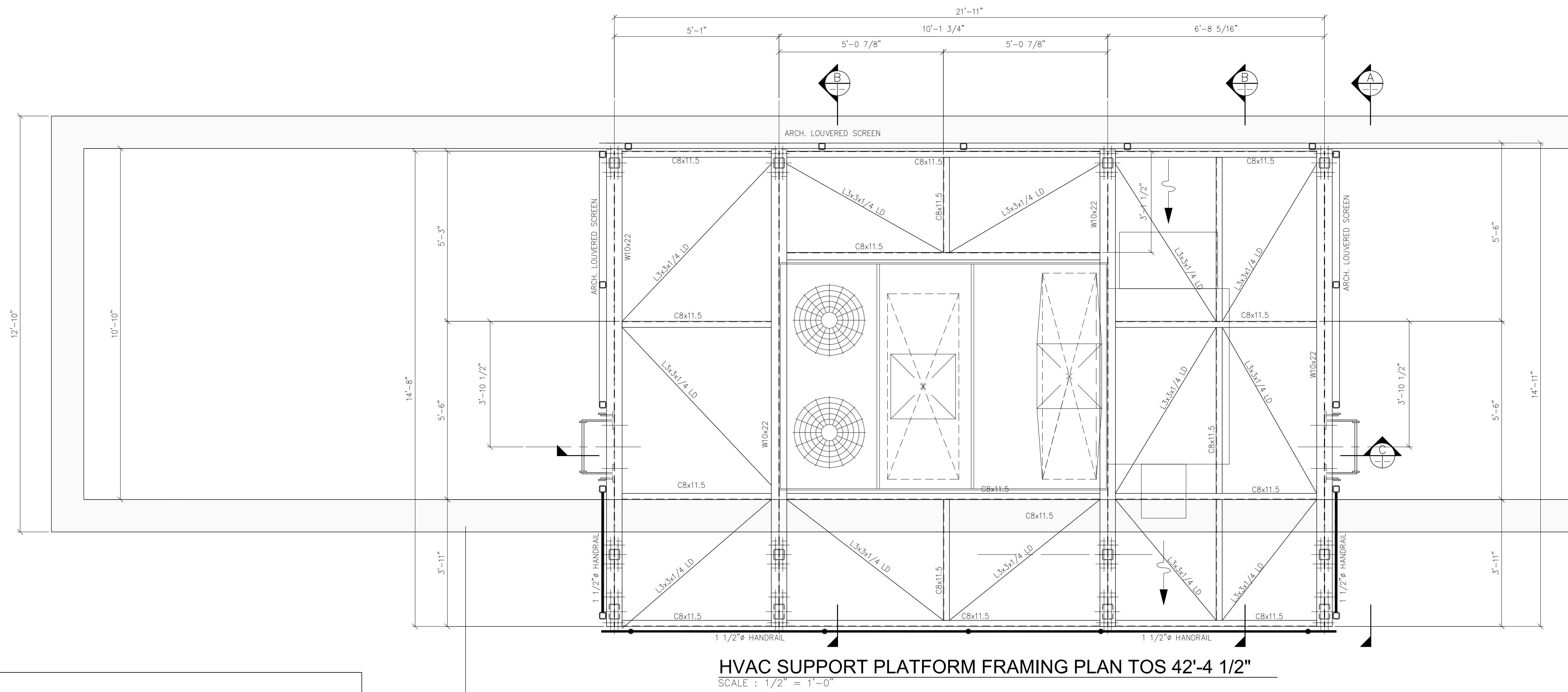
REVISIONS	
1	DESCRIPTION: DATE REVIS:
2	DESCRIPTION: DATE REVIS:
3	DESCRIPTION: DATE REVIS:

**SUMMERVILLE  
TOWN HALL  
200 SOUTH MAIN ST**  
SUMMERVILLE, SC 29483  
PROJECT TITLE

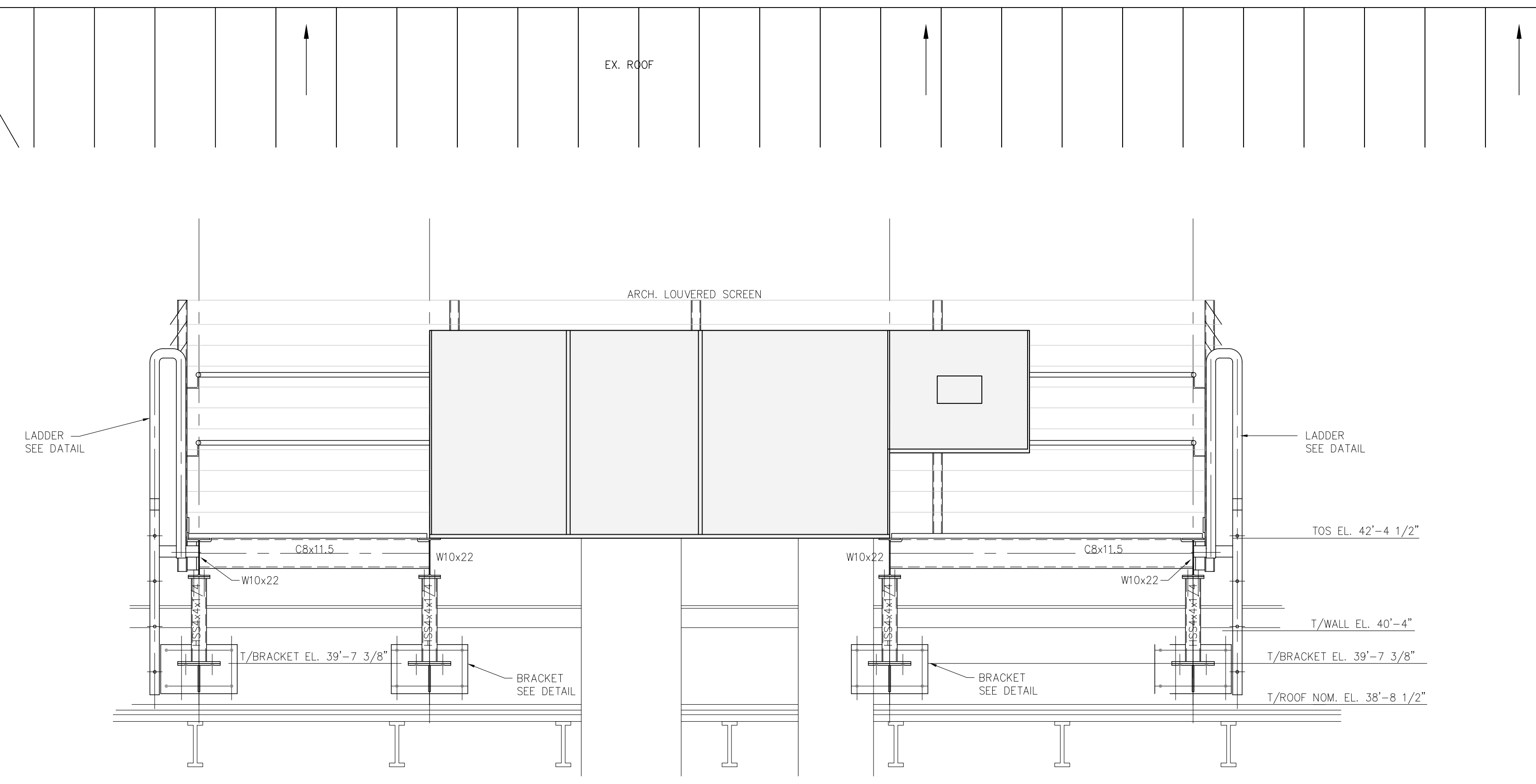
<b>ELEC RENO- ROOF</b>	DRAWING TITLE
SCALE: 3/16"=1'	DATE: 8-3-15

SHEET NUMBER	
<b>E2</b>	OF 4
CAD FILE NAME: <b>15065E2</b>	

**ELECTRICAL RENOVATION PLAN - ROOF**  
SCALE: 3/16"=1'-0"



**HVAC SUPPORT PLATFORM FRAMING PLAN TOS 42'-4 1/2"**  
SCALE : 1/2" = 1'-0"



**SECTION C-X-X**  
SCALE : 1/2" = 1' FT

**STRUCTURAL STEEL**

- 1) CODES AND SPECIFICATIONS - ALL MATERIALS, FABRICATION, ERECTION AND CONNECTIONS SHALL CONFORM TO THE FOLLOWING:
  - A) A.I.S.C. SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
  - B) A.I.S.C. CODE OF STANDARD PRACTICE.
  - C) A.I.S.C. MANUAL OF STEEL CONSTRUCTION.
  - D) SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
  - E) STRUCTURAL WELDING CODE (AWS), D1.1.
- 2) MATERIALS - UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS :
  - A) STRUCTURAL STEEL SHAPES, PLATES AND BARS - - - - - ASTM A572-50.
  - B) STRUCTURAL STEEL PIPES - - - - - ASTM A53 GR. B.
  - C) HIGH STRENGTH BOLTS, NUTS AND WASHERS - - - - - ASTM A325.
  - D) ANCHOR BOLTS, NUTS AND WASHERS - - - - - ASTM A449.
  - E) WELDING ELECTRODES - - - - - AWS A5.1 SERIES E70 OR E70T.
  - F) WELDING - ALL CONTINUOUS WELDED PLATED SHALL BE TACK WELDED FIRST THEN CONTINUOUS WELDING TO MINIMIZE WARPAGE.
- 3) CONNECTIONS
  - A) ALL SHOP CONNECTIONS SHALL BE WELDED AND ALL FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS DESIGNED AS "BEARING TYPE WITH THREADS IN SHEAR PLANE" (A325-N). FABRICATOR MAY SUBSTITUTE EQUIVALENT FIELD CONNECTIONS SUBJECT TO APPROVAL.
  - B) ALL BOLTED CONNECTIONS SHALL BE MADE WITH A MINIMUM OF TWO (2) BOLTS, AND ALL BOLTS SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- 4) GRATING
  - A) ALL SHALL BE GALVANIZED STANDARD SPACED WELDED STEEL GRATING. BEARING BARS SHALL BE 1 1/4" X 3/16" SPACED AT 1 3/16" O.C. CROSS BARS SHALL BE SPACED 4" O.C. GRATING SHALL BE KERRIGAN K-600 OR EQUAL.
- 5) HANDRAIL
  - A) ALL SHALL BE 1 1/2" SCH 40 PIPE
  - B) ALL CONNECTIONS SHALL BE WELDED EXCEPT AS NOTED. ALL ROUGH EDGES AND WELDS SHALL BE GRIND SMOOTH. ALL CORNERS AND CURVES SHALL HAVE MINIMUM RADIUS BENDS.
- 6) GALVANIZING
  - A) ALL STEEL SHALL BE HOT DIPPED GALVANIZED. ROLLED SHAPES, BARS AND PLATES SHALL CONFORM TO ASTM A123
  - B) PIPE AND TUBING SHALL CONFORM TO ASTM A120
  - C) ZINC MATERIAL SHALL CONFORM TO ASTM B6
  - D) ANY DAMAGE TO EITHER NEW OR EXISTING GALVANIZED SURFACES DUE TO FIELD WELDING, DRILLING OR SHIPMENT SHALL BE COATED WITH AN APPROVED HIGH ZINC DUST CONTENT PAINT.
- 7) SHOP DRAWINGS
  - A) THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL. THE ENGINEER SHALL CHECK DRAWINGS FOR MEMBER SIZES, GENERAL LOCATION AND CONNECTIONS. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS.

**WIND LOAD DESIGN DATA**

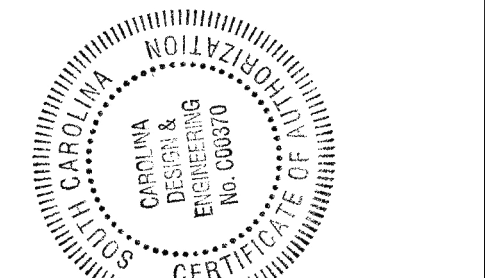
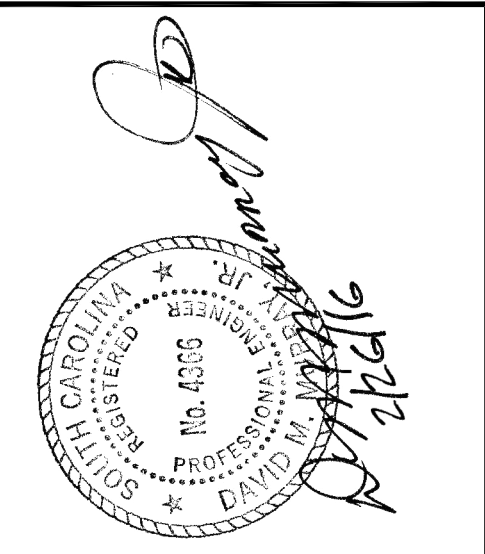
CODES	IBC 2012 AND ASCE 7-10
LOCATION	Summerville, SC 29410
BASIC WIND SPEED	138 MPH
RISK CATEGORY	II
EXPOSURE CATAGORY	B

**SEISMIC DESIGN DATA**

CODES	IBC 2012 AND ASCE 7-10
LOCATION	Summerville, SC 29483
RISK CATEGORY	II
0.2 SPECTRAL RESPONSE ACC.	S <sub>s</sub> = 2.13525
1.0 SPECTRAL RESPONSE ACC.	S <sub>1</sub> = 0.538869
SITE CLASS	D
DESIGN CATAGORY	D

**GRAVITY LOAD DESIGN DATA**

LIVE LOAD	125psf
DEAD LOAD	10psf



**Carolina Design, PC**  
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1000 North Main Street  
Summerville, SC 29483  
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DESIGNED BY: DM3  
DRAWN BY: DM3  
APPROVED BY:  
CHECKED BY: DM3

**REVISIONS**

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2	DATE REVISION: 2/26/16
3	DESCRIPTION:
	DATE REVISION:
	DESCRIPTION:
	DATE REVISION:

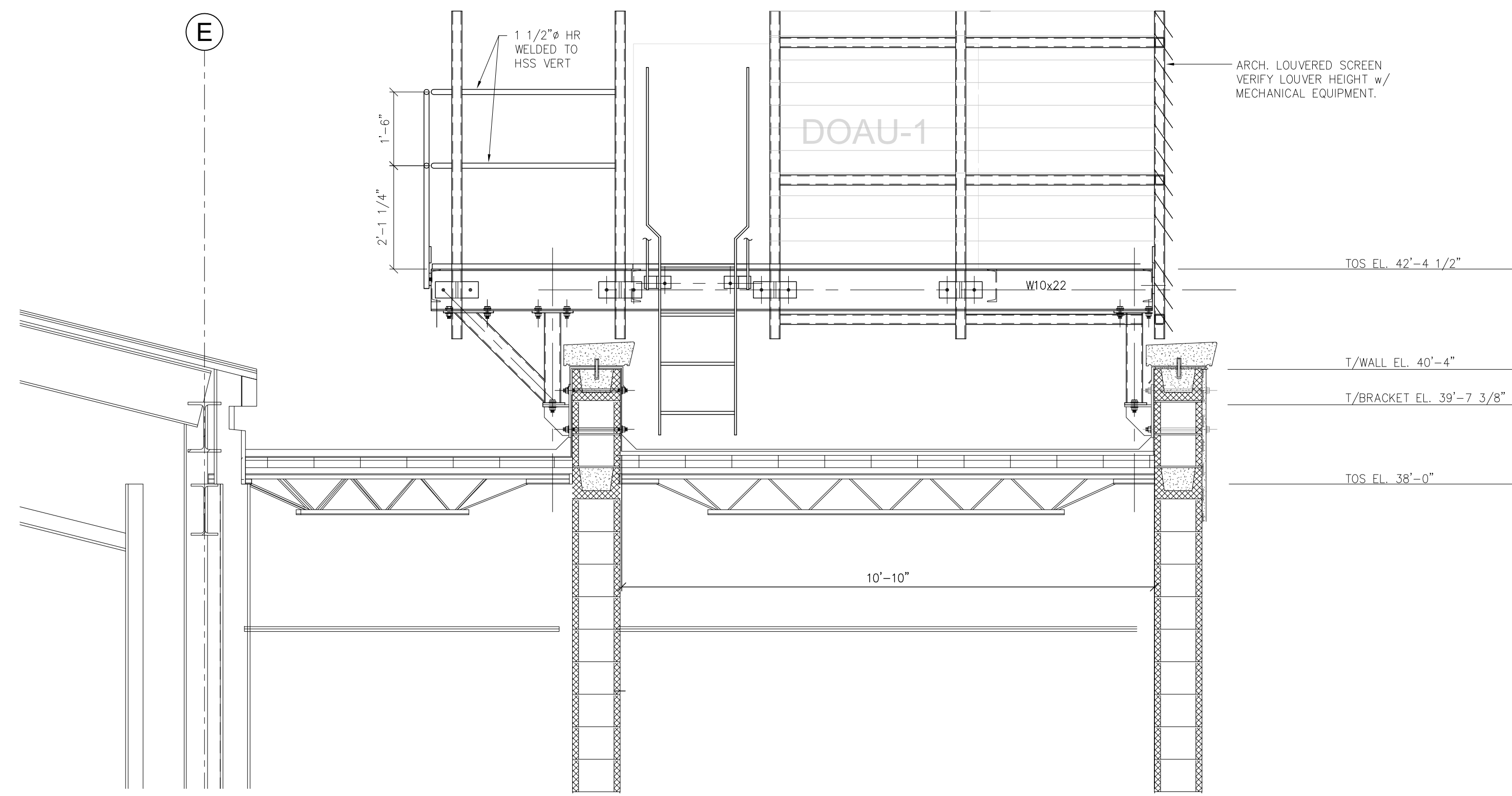
**SUMMERVILLE TOWN HALL**  
104 CIVIC CENTER  
SUMMERVILLE, SC 29483  
PROJECT TITLE

**HVAC SUPPORT PLATFORM FRAMING PLAN SECTIONS & SPECS**  
DRAWING TITLE

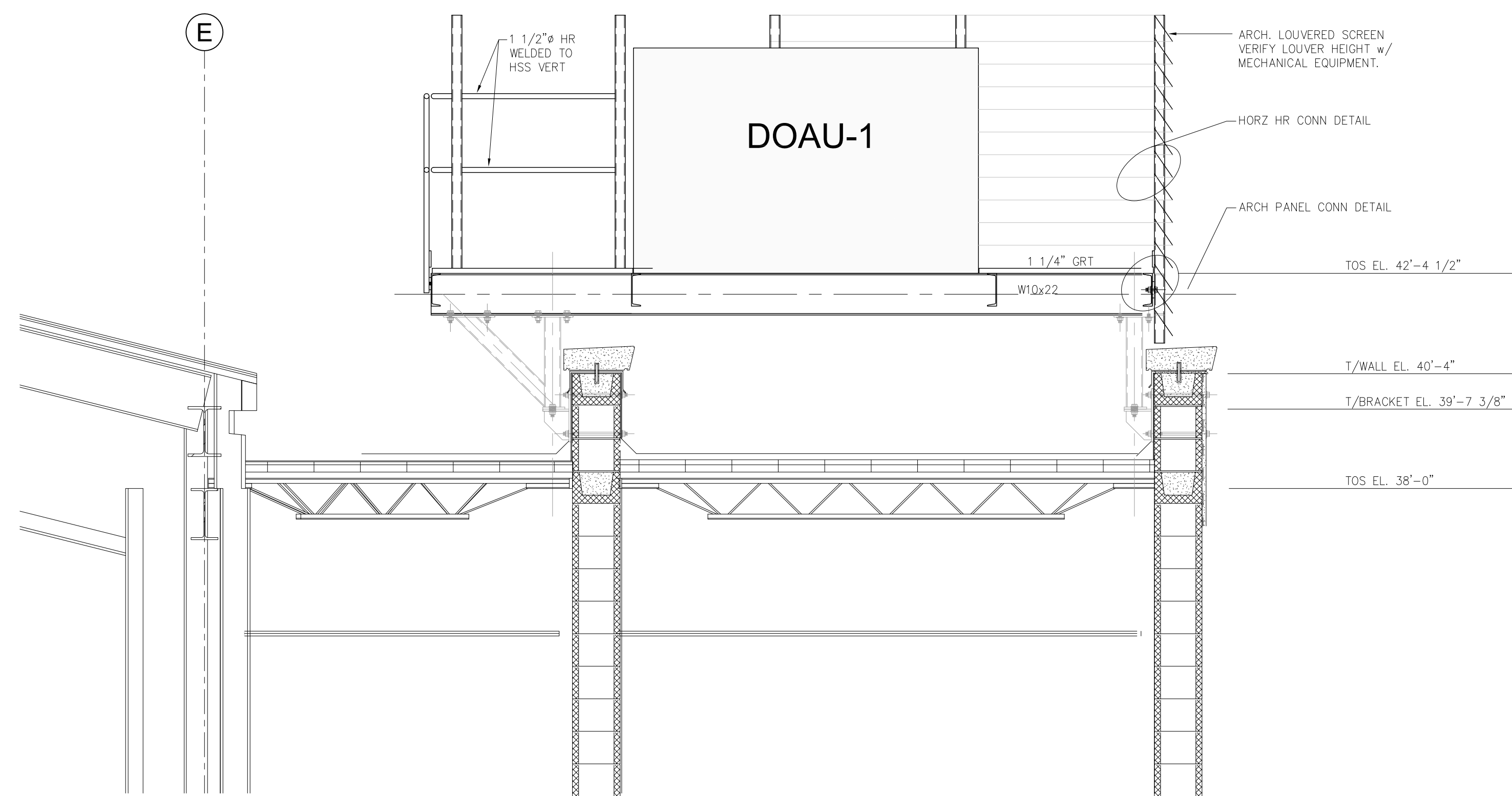
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DATE: 8-3-15

SHEET NUMBER  
1 OF 4

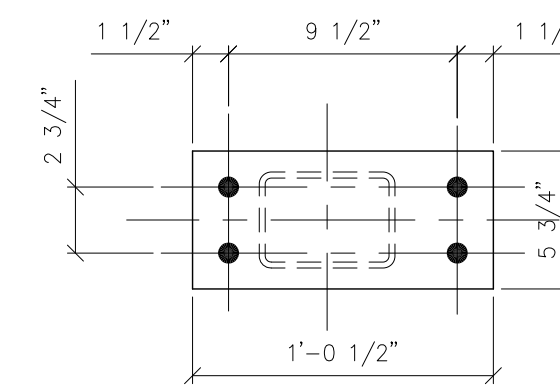
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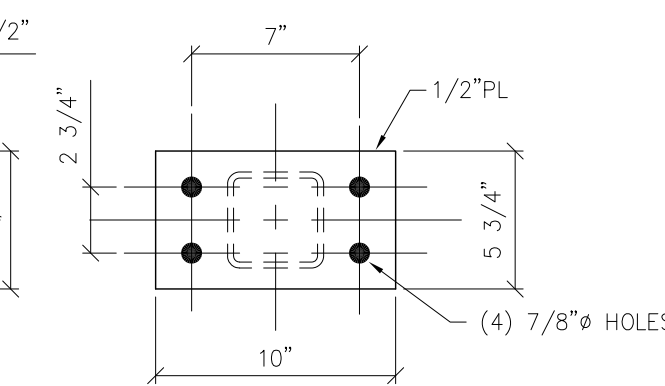
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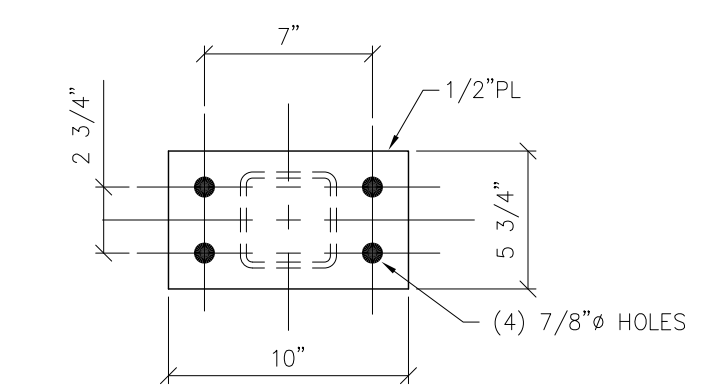
**SECTION B**  
SCALE : 1/2" = 1 FT



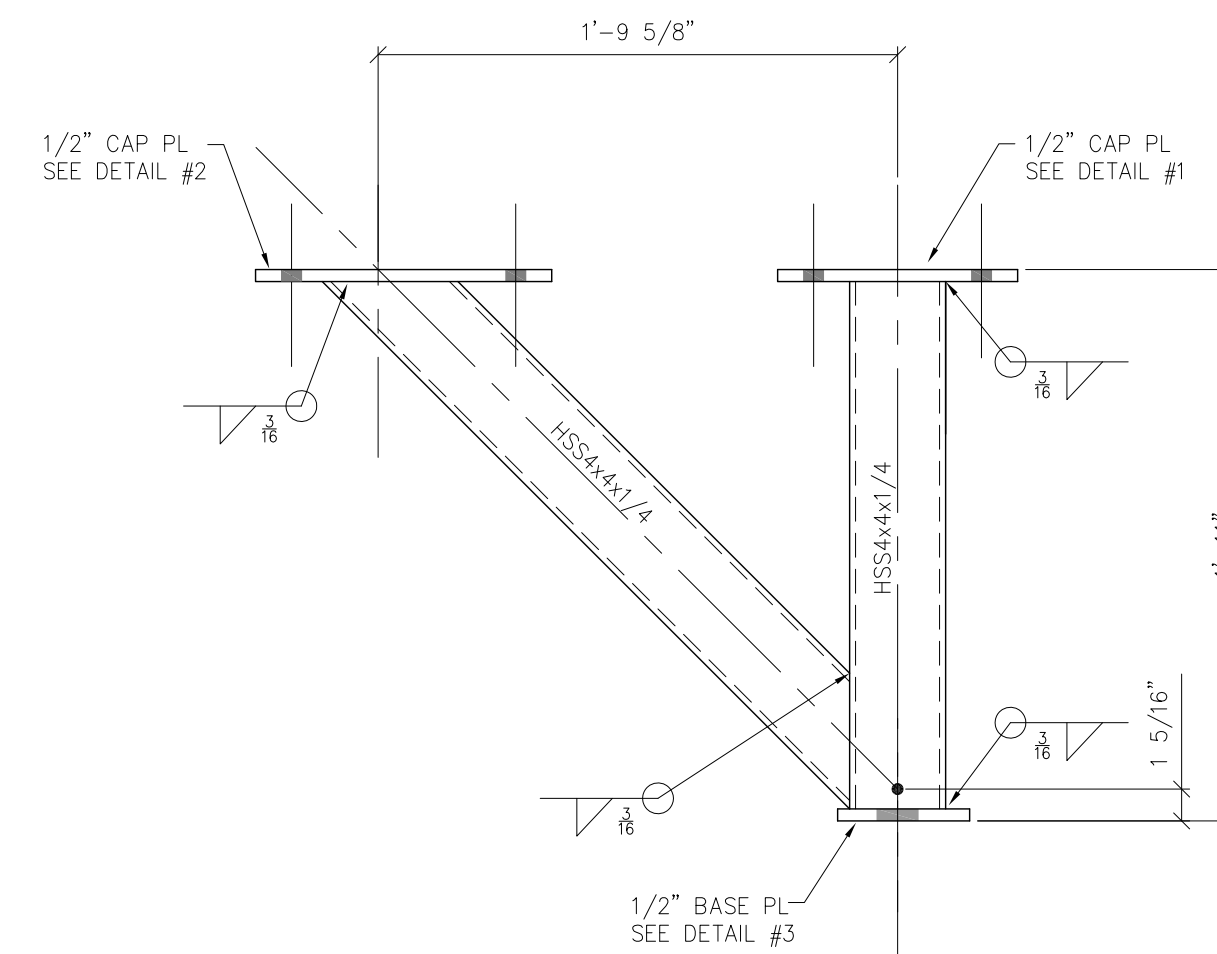
**DETAIL #2**  
SCALE : 1 1/2" = 1'-0"



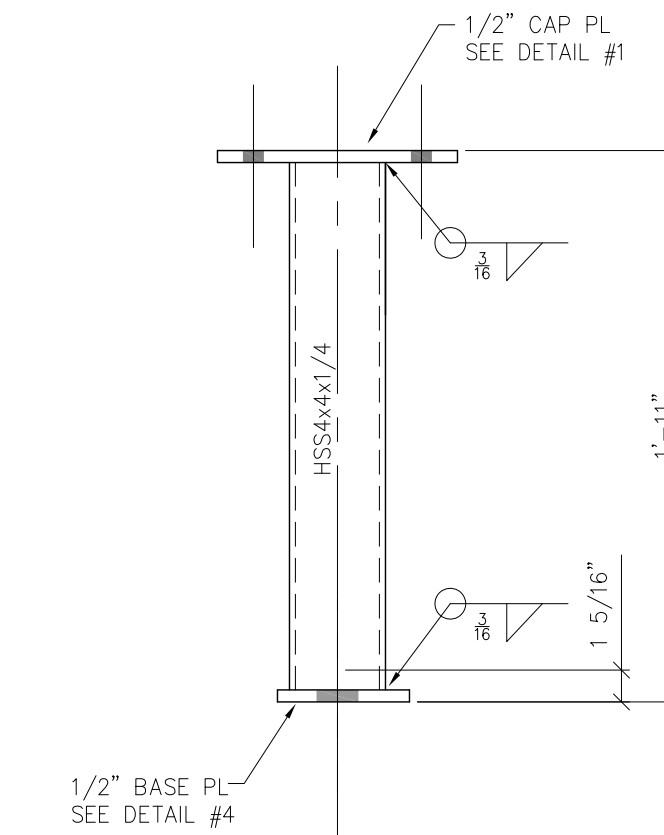
**DETAIL #1**  
SCALE : 1 1/2" = 1'-0"



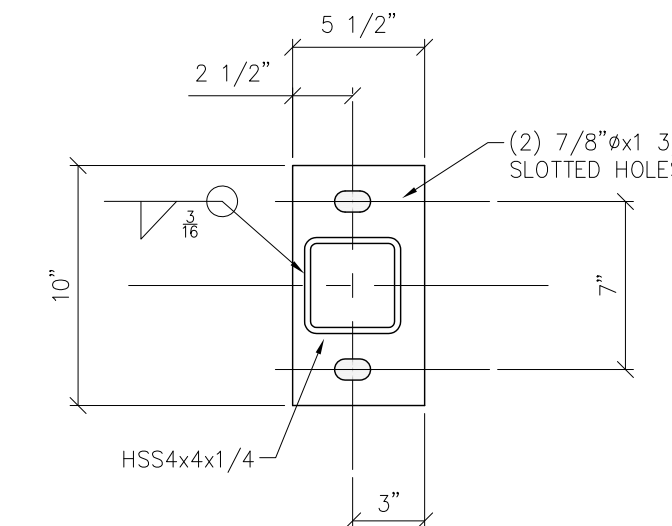
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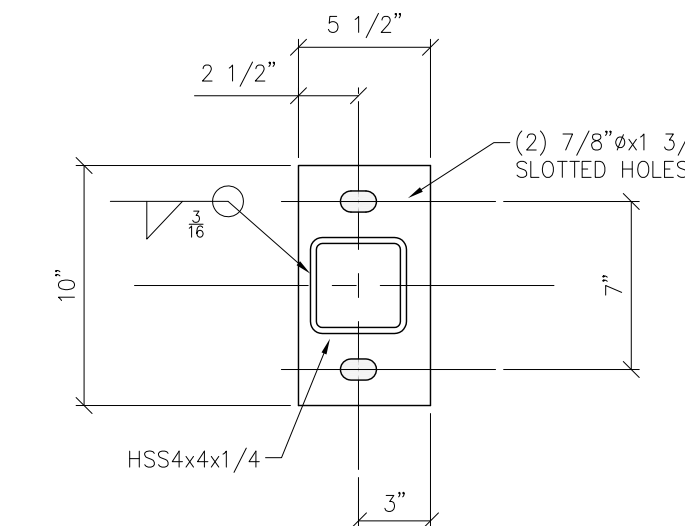
**PLATFORM SUPPORT #1**  
SCALE : 1 1/2" = 1'-0"



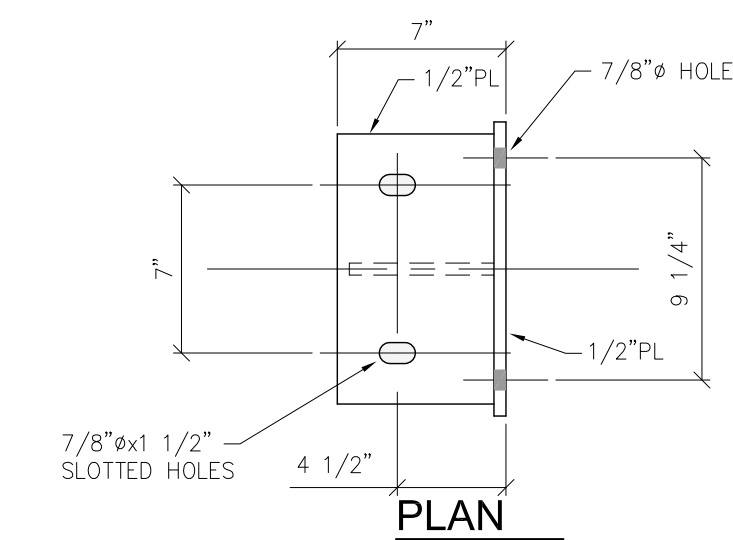
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SCALE : 1 1/2" = 1'-0"



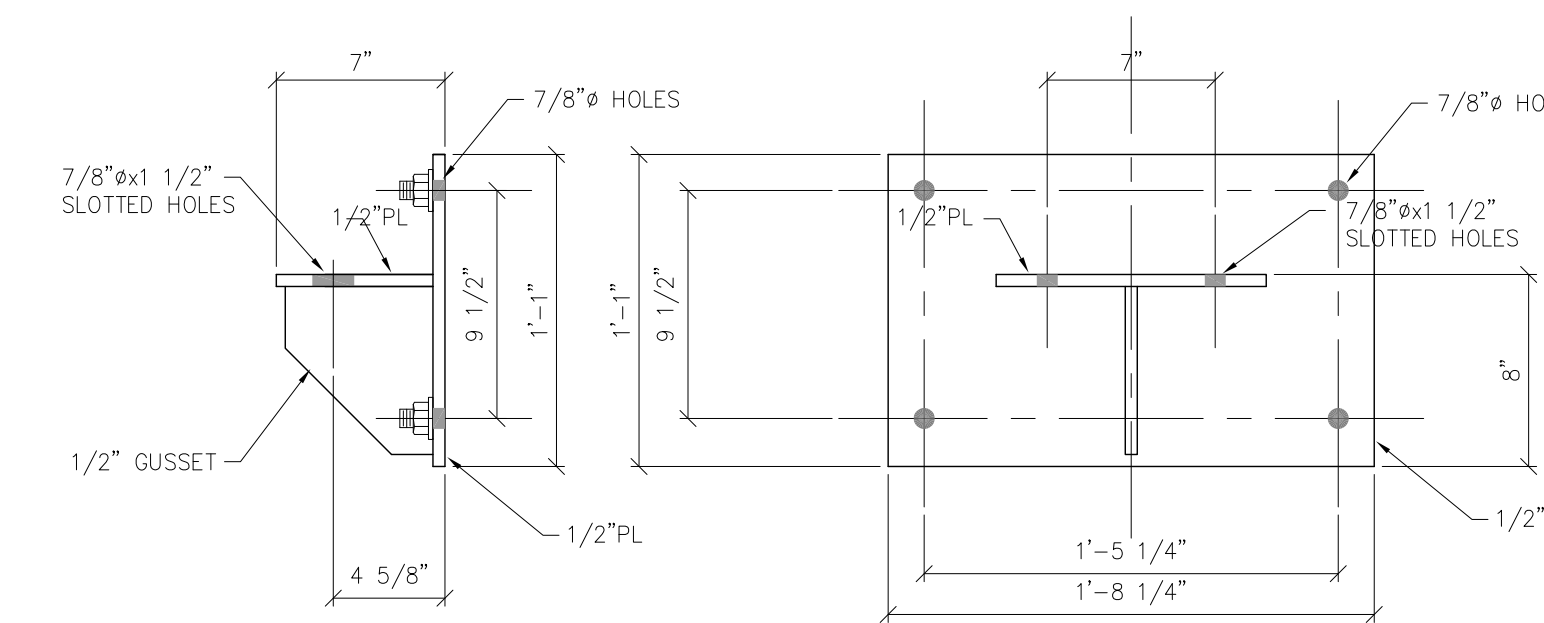
**DETAIL #3**  
SCALE : 1 1/2" = 1'-0"



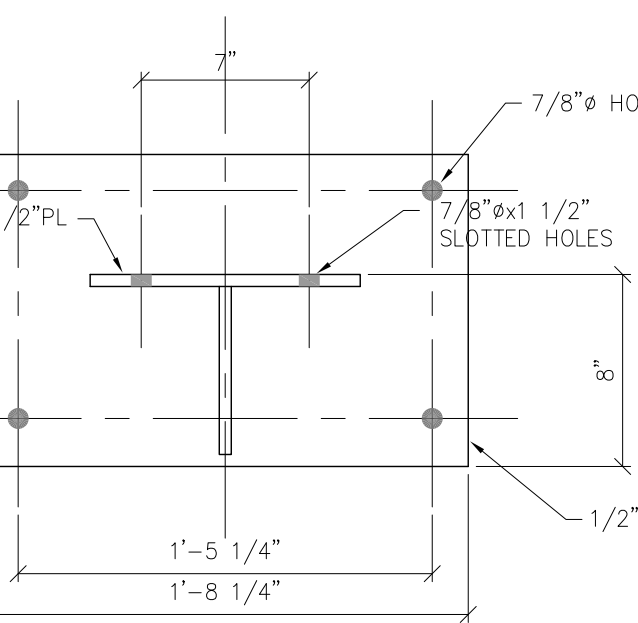
**DETAIL #4**  
SCALE : 1 1/2" = 1'-0"



**PLAN**

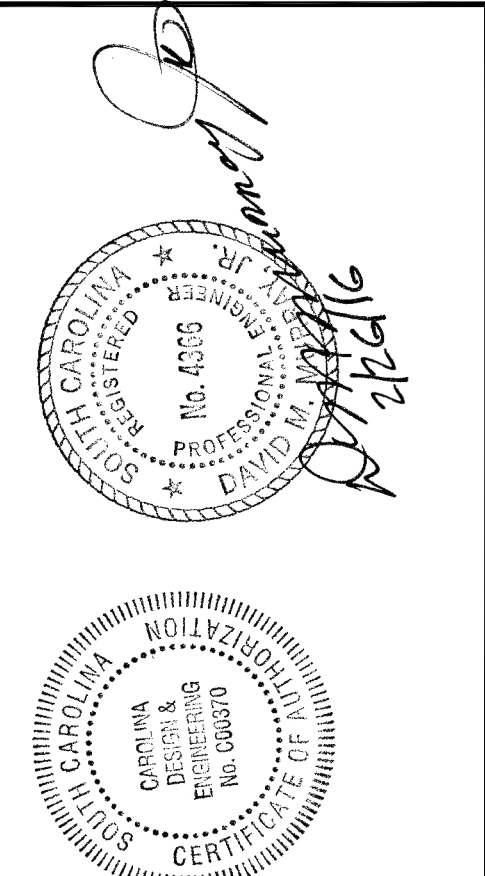


**ELEVATION**



**ELEVATION**

**BRACKET DETAIL**  
SCALE : 1 1/2" = 1'-0"



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DESIGNED BY: DMJ  
 APPROVED BY:  
 DRAWN BY: DMJ  
 CHECKED BY: DMJ

REVISIONS	
1	DESCRIPTION: FOR CONSTRUCTION
2	DATE REVISED: 2/26/16
3	DESCRIPTION:
	DATE REVISED:

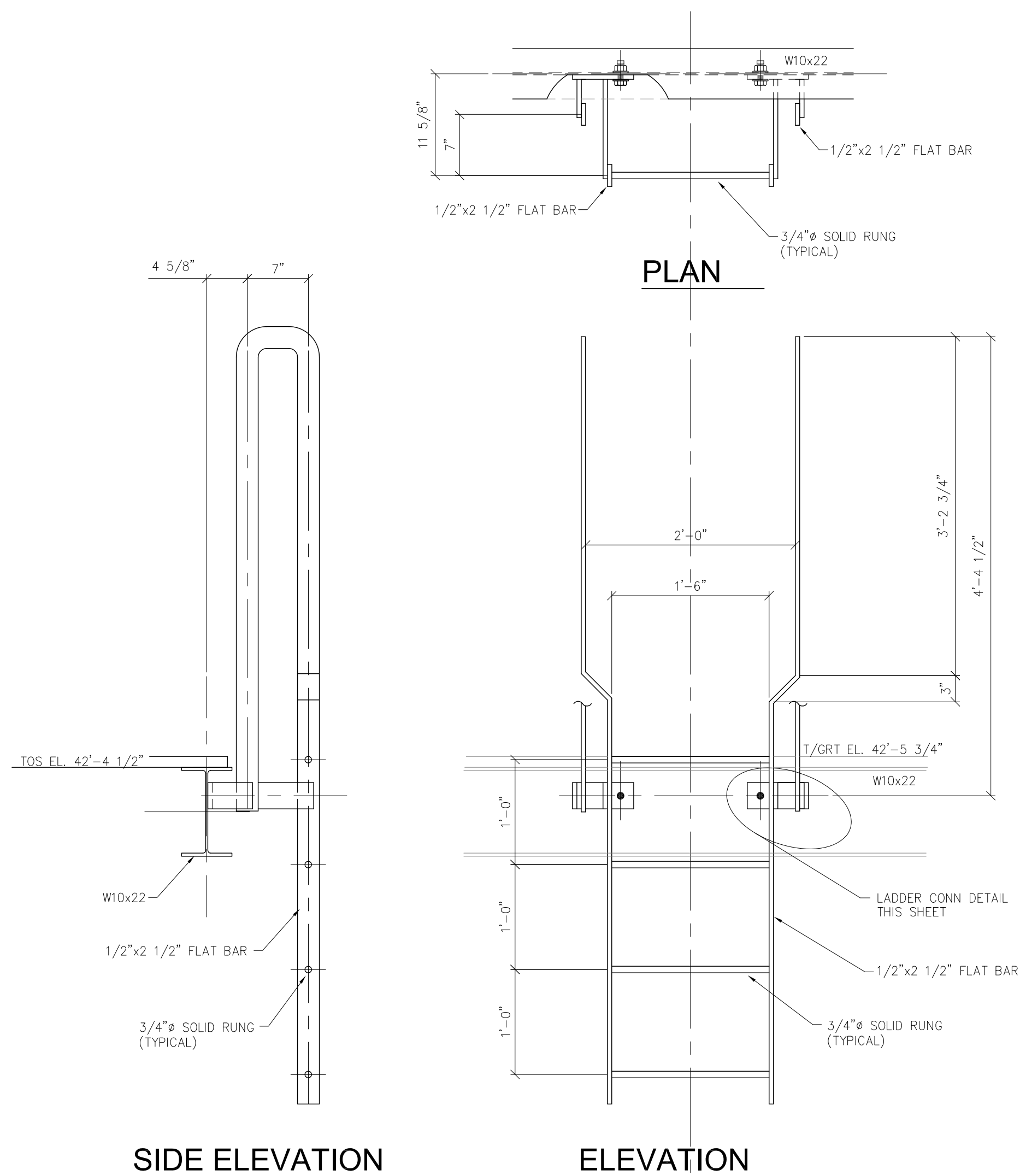
**SUMMERVILLE TOWN HALL**  
**104 CIVIC CENTER**  
 SUMMERVILLE, SC 29483  
 PROJECT TITLE

**HVAC SUPPORT PLATFORM SECTIONS & DETAILS**  
 DRAWING TITLE

SCALE: 8-3-15  
 DATE:

SHEET NUMBER  
 2 OF 4

CAD FILE NAME:

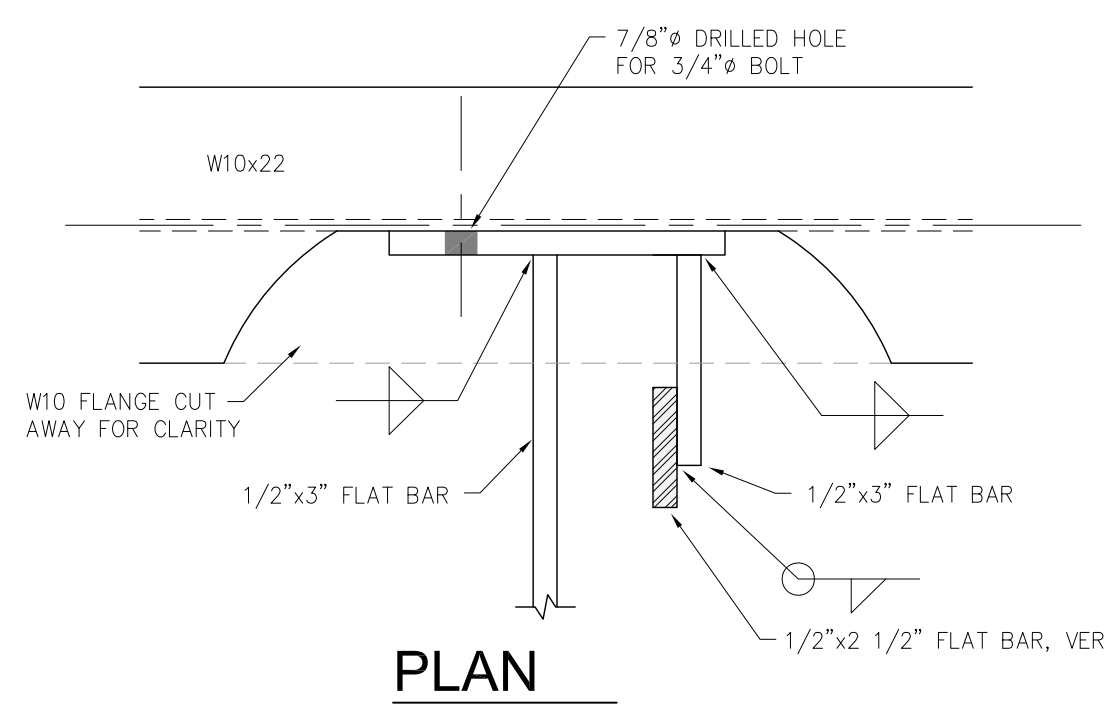


**SIDE ELEVATION**

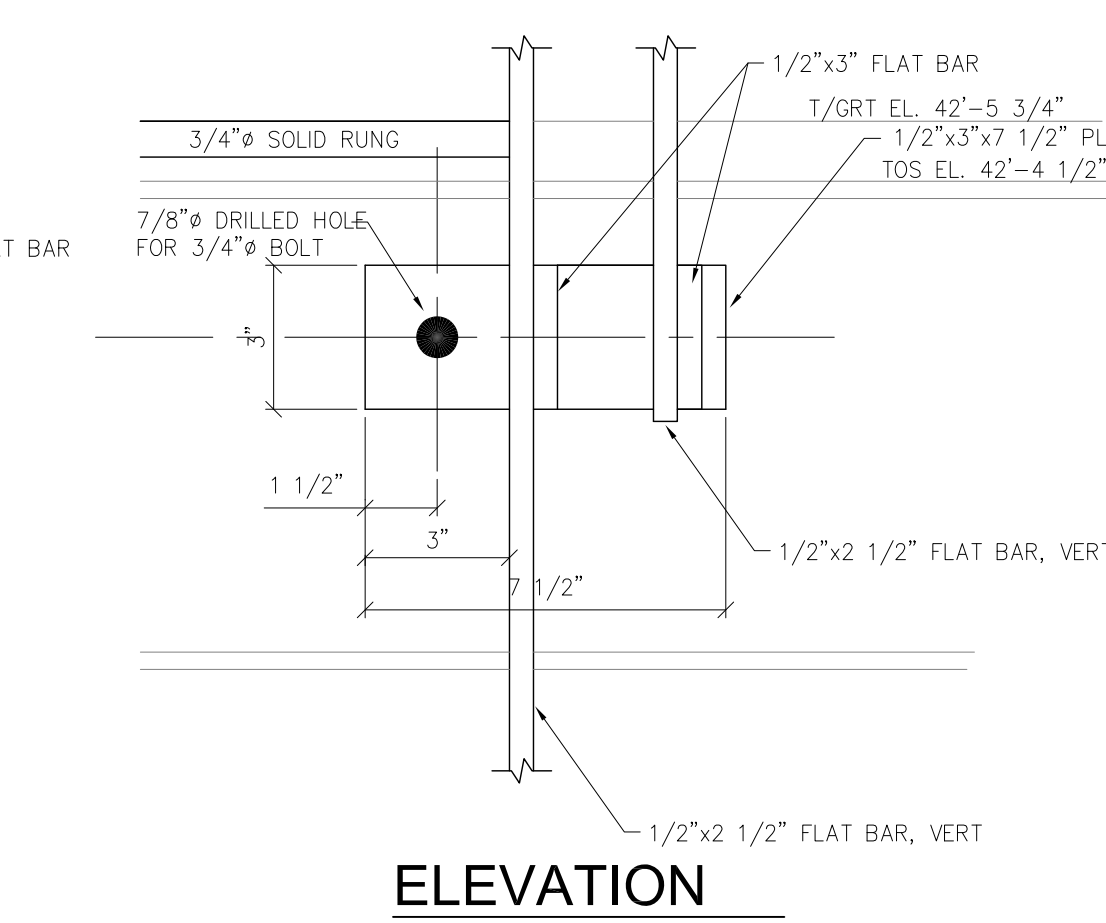
**ELEVATION**

**LADDER DETAIL**

SCALE : 1" = 1'-0"



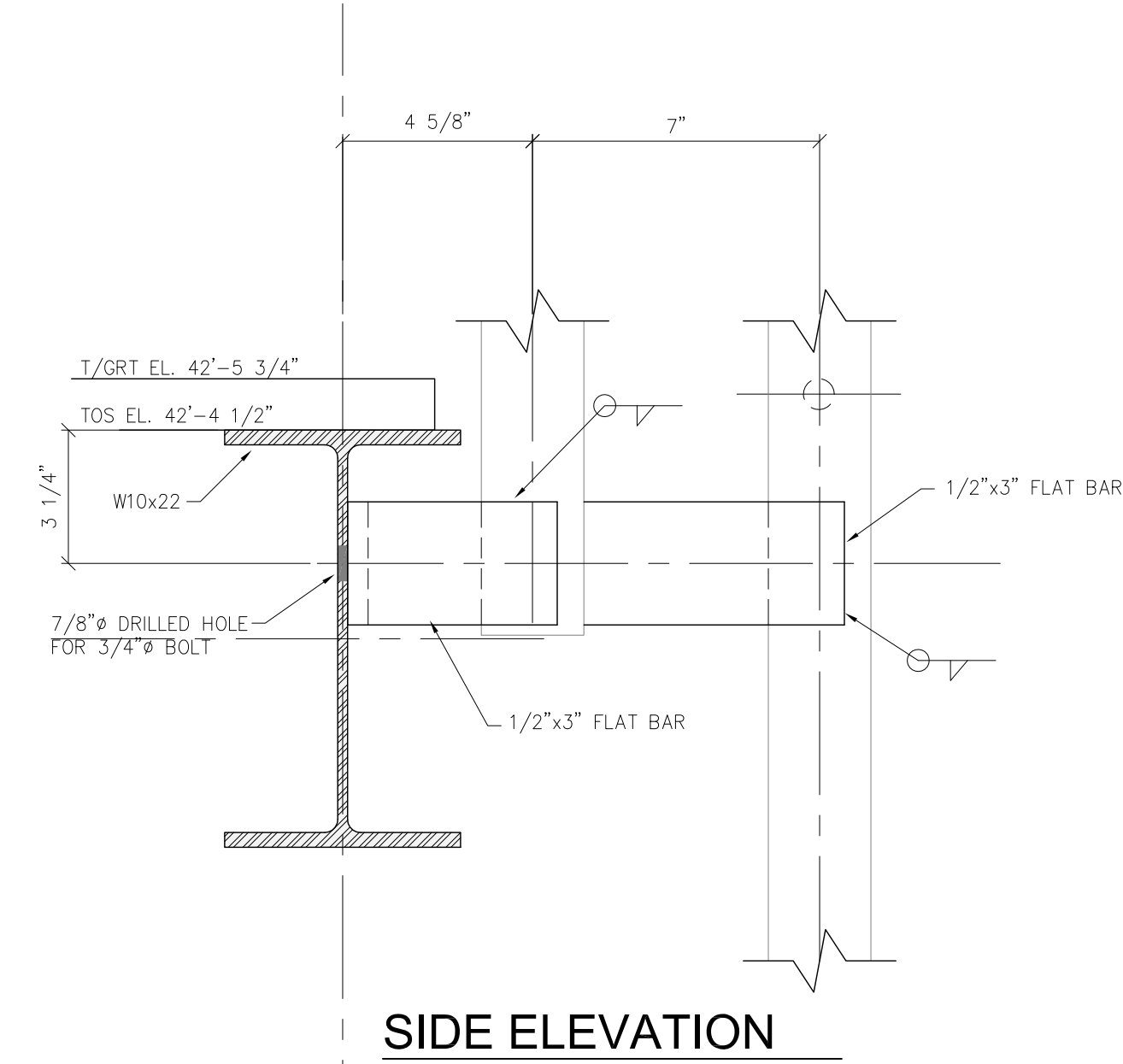
**PLAN**



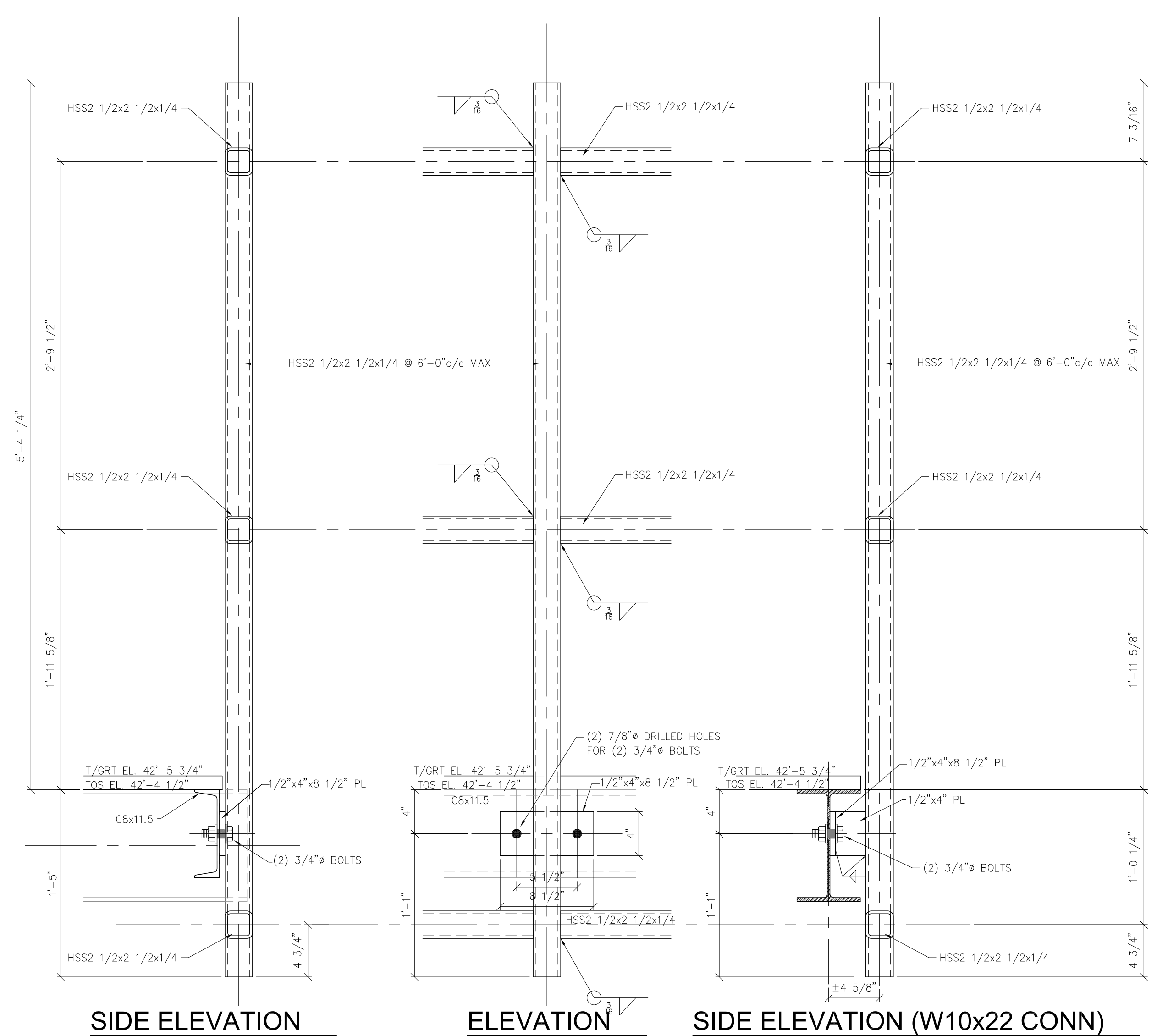
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**LADDER CONN. DETAIL**

SCALE : 3" = 1'-0"



**SIDE ELEVATION**



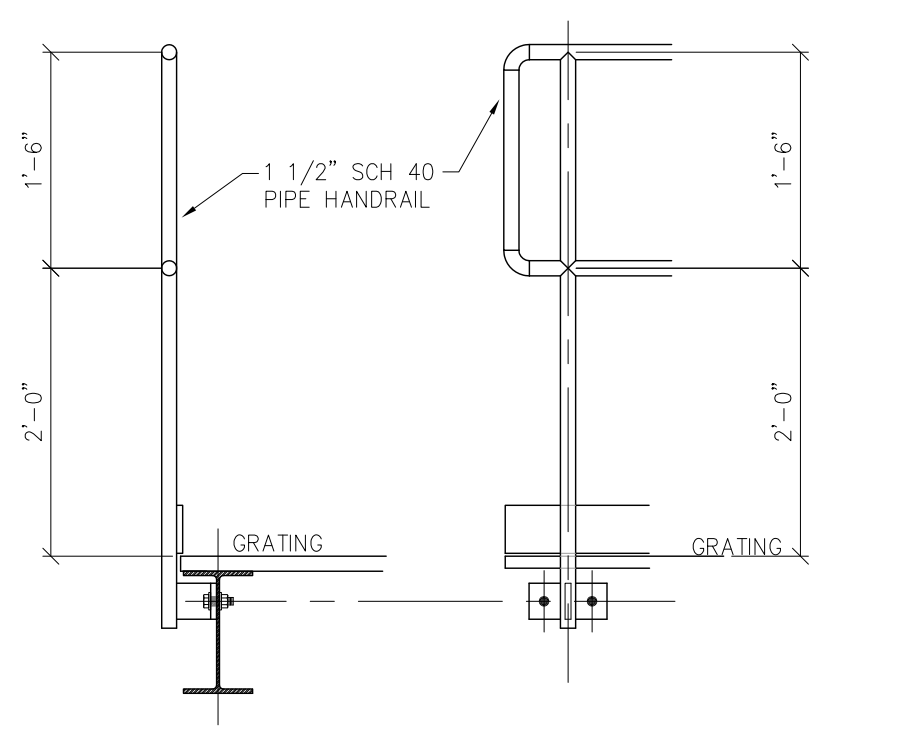
**SIDE ELEVATION**

**ELEVATION**

**SIDE ELEVATION (W10x22 CONN)**

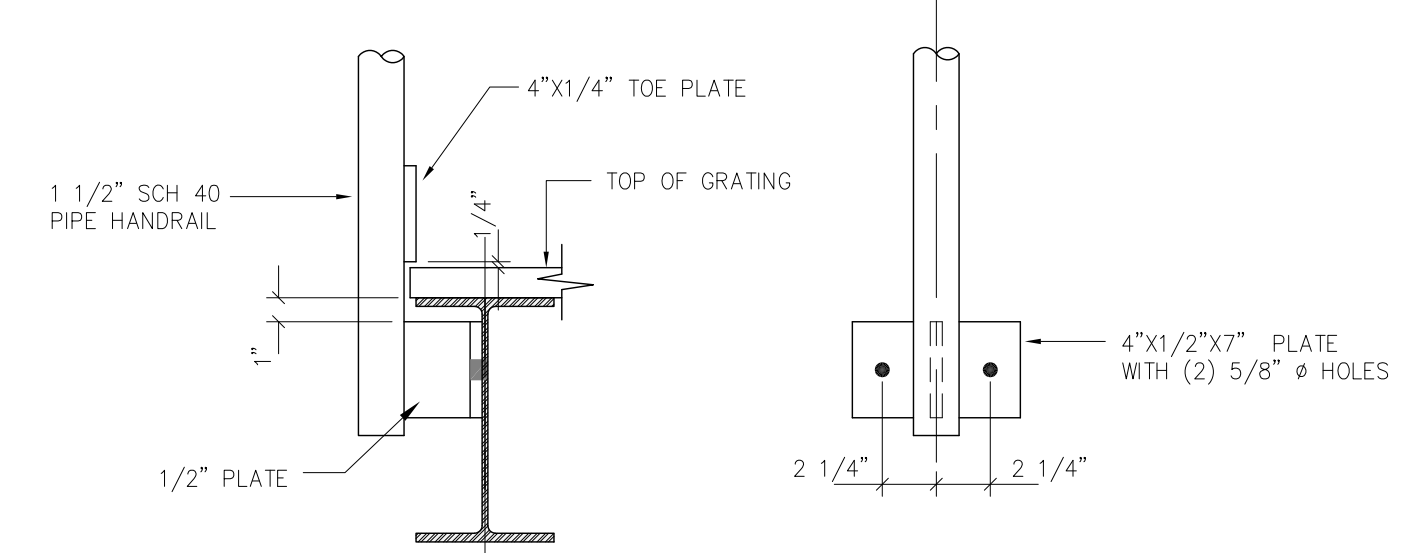
**ARCH PANEL CONN DETAIL**

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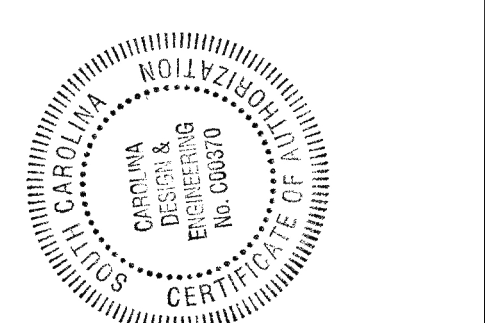
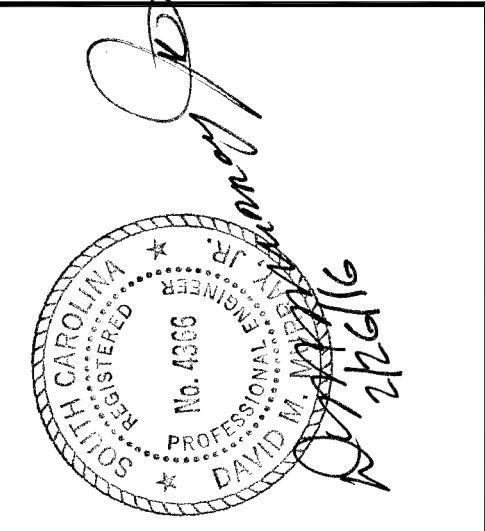
**TYPICAL HANDRAIL DETAIL**

SCALE : 3/4" = 1'-0"



**TYPICAL HANDRAIL CONN DETAIL**

SCALE : 1 1/2" = 1'-0"



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 APPROVED BY:  
 CHECKED BY: DMJ

**REVISIONS**

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**SUMMERVILLE TOWN HALL**  
**104 CIVIC CENTER**  
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 PROJECT TITLE

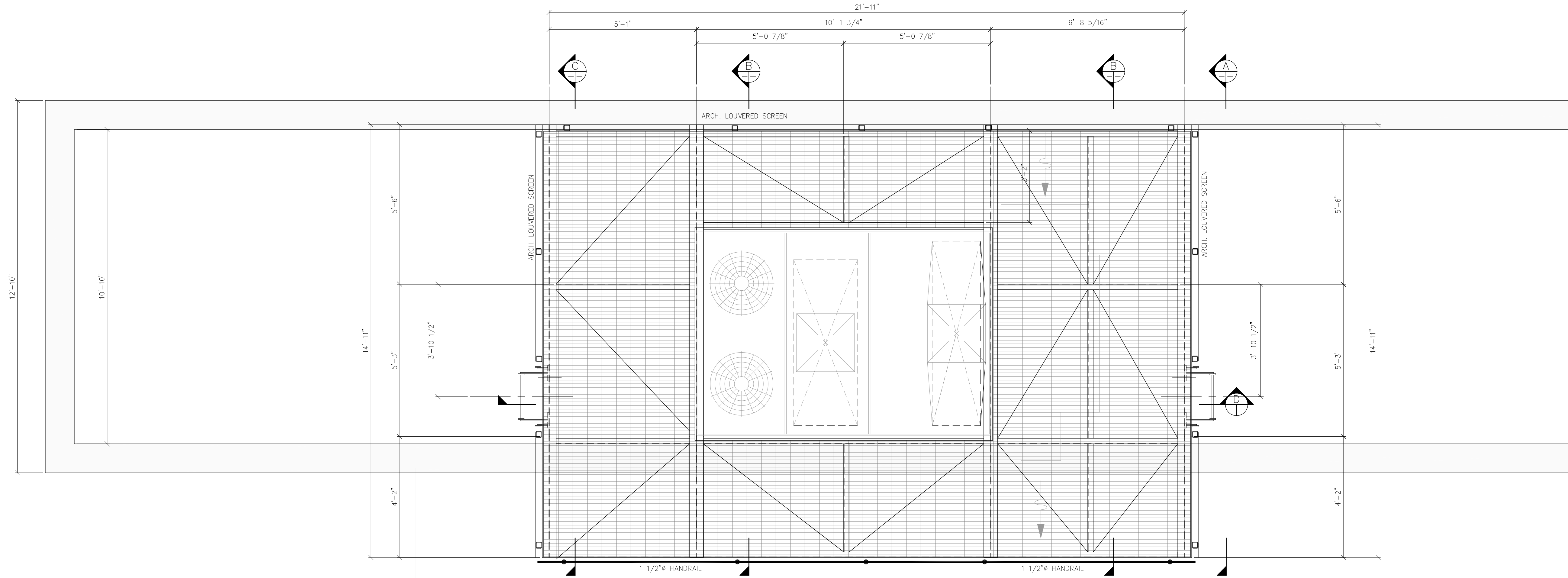
**HVAC SUPPORT PLATFORM DETAILS**  
 DRAWING TITLE

SCALE: 8-3-15  
 DATE: 8-3-15

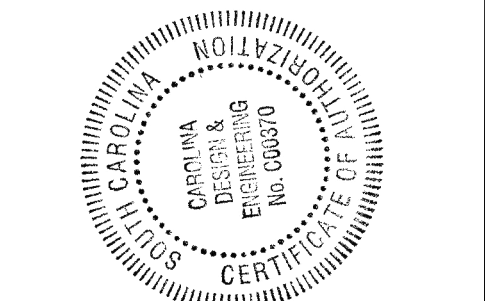
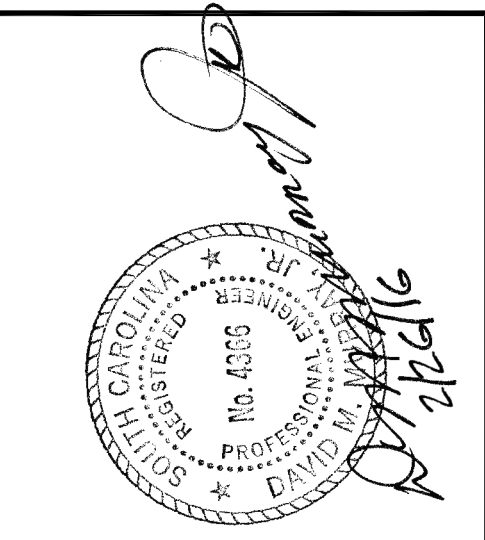
SHEET NUMBER  
 3 OF 4

CAD FILE NAME:





HVAC SUPPORT PLATFORM GRATING PLAN TOG EL. 42'-5 3/4"  
 SCALE : 1/2" = 1'-0"



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 Summerville, SC 29483  
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DESIGNED BY: DM3  
 DRAWN BY: DM3  
 APPROVED BY: [Signature]  
 CHECKED BY: DM3

REVISIONS	
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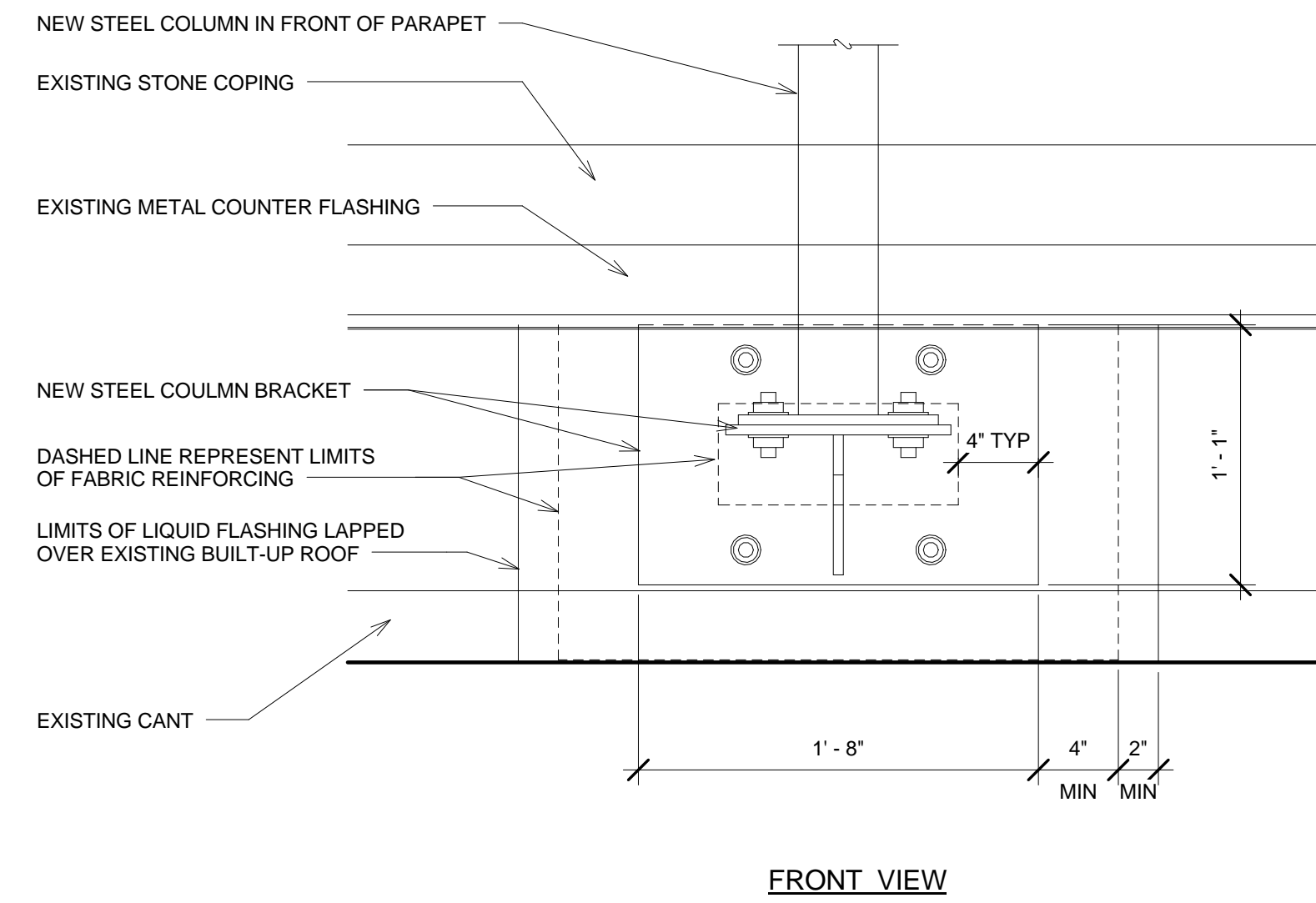
HVAC SUPPORT PLATFORM GRATING PLAN  
 DRAWING TITLE

SCALE: 1/2" = 1'-0"  
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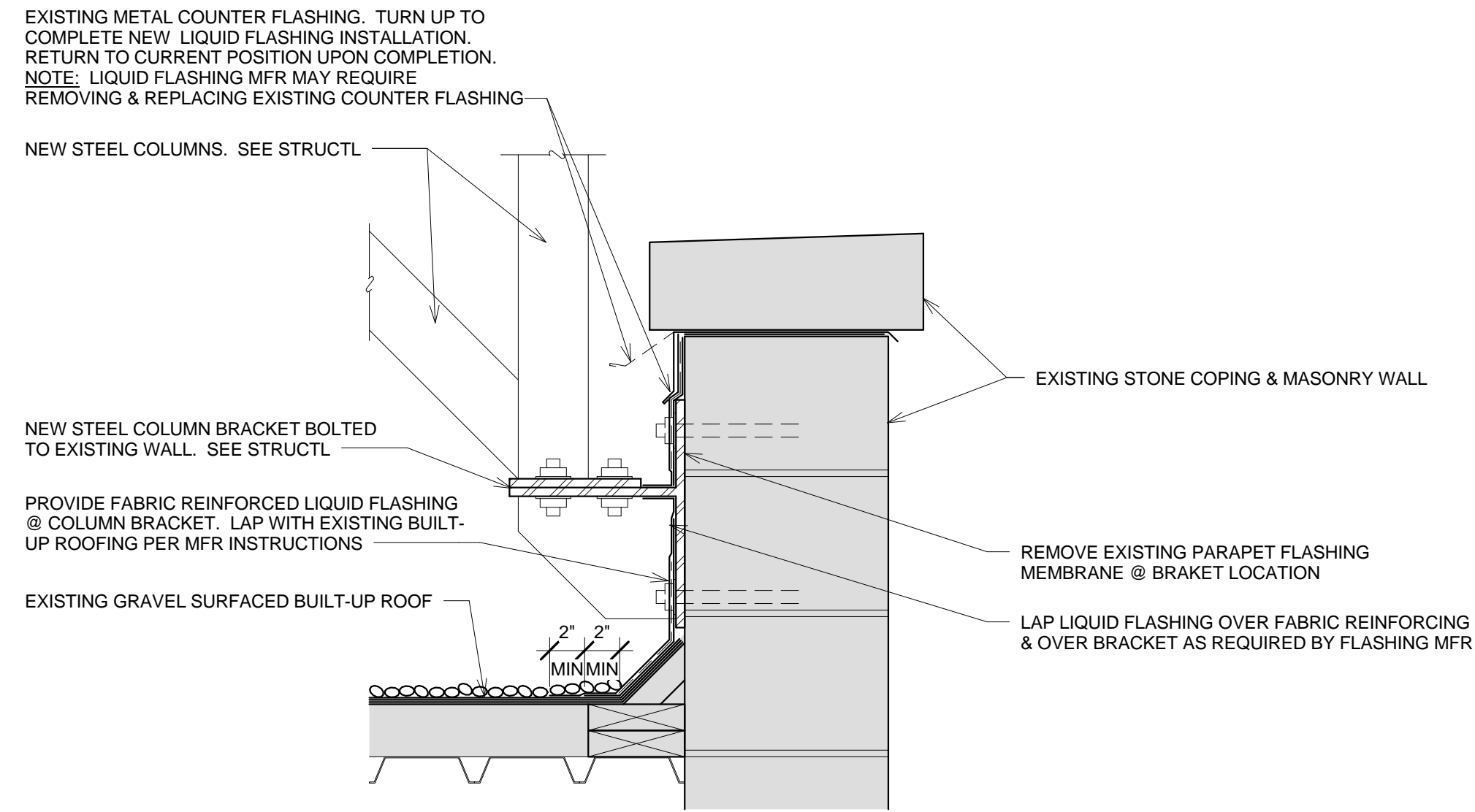
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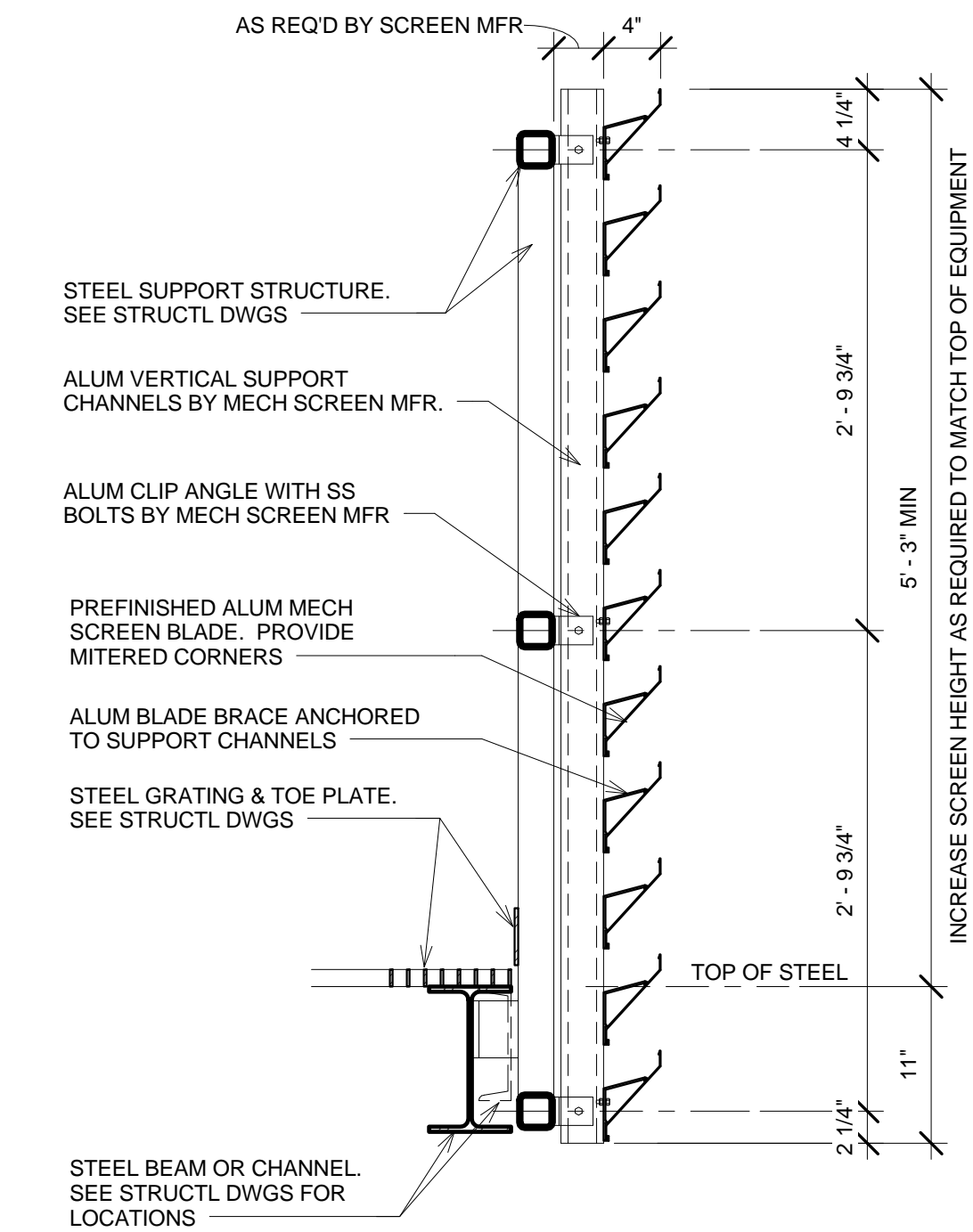


FRONT VIEW



SECTIONAL VIEW

① FLASHING @ COLUMN SUPPORT BRACKET  
1 1/2" = 1'-0"



**MECHANICAL SCREEN NOTES**

MECHANICAL SCREEN BASIS OF DESIGN : CONSTRUCTION SPECIALTIES "VERT-A-CADE 301" OR EQUAL. PROVIDE POWDER COAT FINISH. COLOR TO BE SELECTED FROM MANUFACTURER STANDARD COLOR OPTIONS.  
SEE STRUCTURAL PLAN FOR MECHANICAL SCREEN LOCATION & EXTENT.  
ISOLATE DISIMILAR METALS.  
PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW PRIOR TO FABRICATION.

② MECHANICAL SCREEN DETAIL  
1" = 1'-0"

**REVISIONS**

NO.	DESCRIPTION	DATE REVISION
1		
2		
3		

**SUMMERVILLE  
TOWN HALL**  
200 SOUTH MAIN ST  
SUMMERVILLE, SC 29483  
PROJECT TITLE

**ROOF DETAILS**

DRAWING TITLE  
SCALE:  
DATE:  
8-3-15

SHEET NUMBER  
**A2** OF

CAD FILE NAME:

