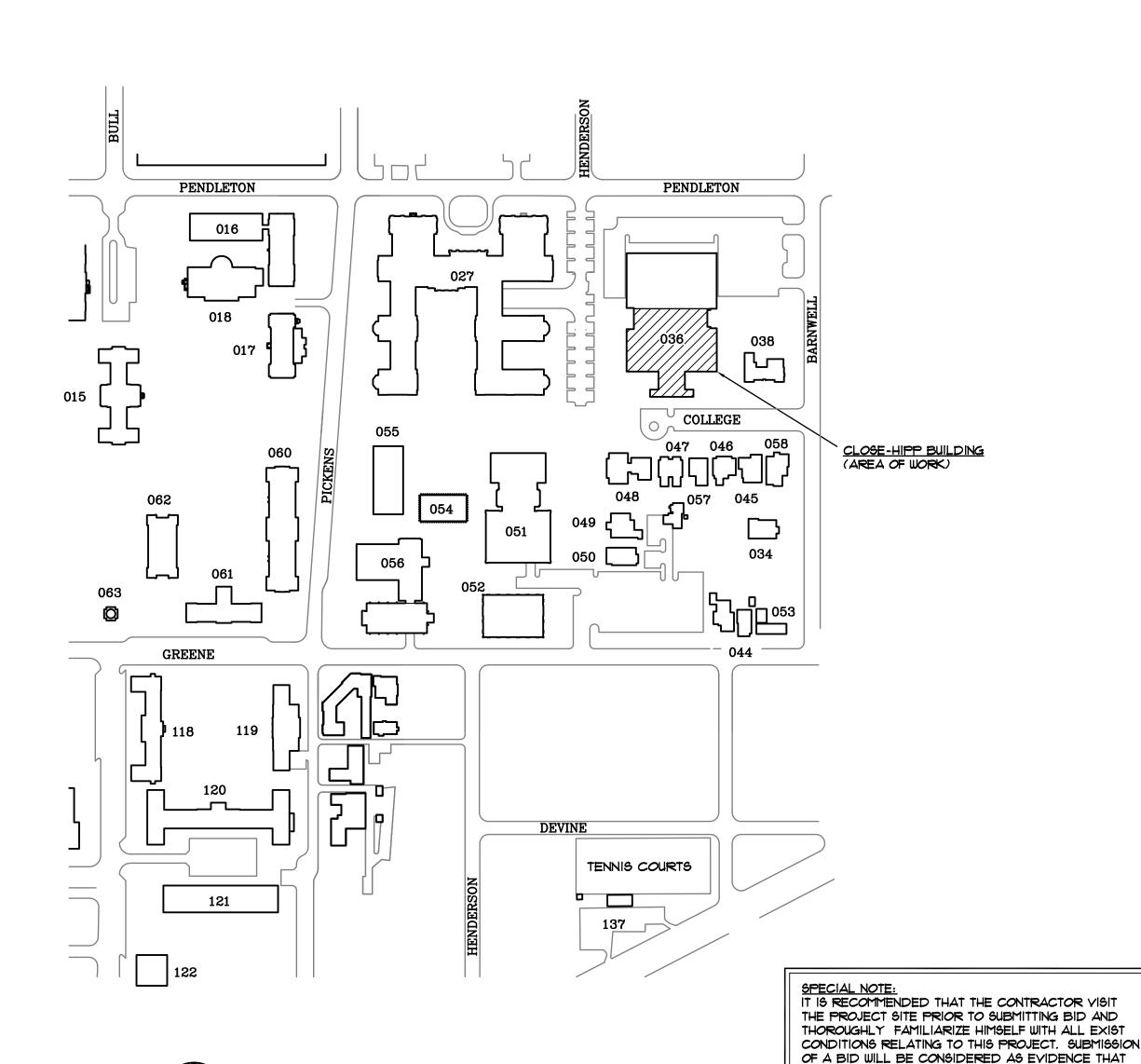
USC DM - CLOSE BUILDING AHU UPGRADES

THE UNIVERSITY OF SOUTH CAROLINA COLUMBIA, SOUTH CAROLINA

STATE PROJECT # H27-6117 USC PROJECT 50002911-2

FACILITIES PLANNING AND CONSTRUCTION

THE CONTRACTOR HAS VISITED THE SITE OF WORK



UNIVERSITY OF SOUTH CAROLINA

NOT TO SCALE

	INDEX OF DRAWINGS	
Cl	COVER SHEET	
Δl	ARCHITECTURAL FLOOR PLANS	
A 2	ARCHITECTURAL ELEVATIONS	
A 3	ARCHITECTURAL SECTIONS	
Δ4	ARCHITECTURAL DETAILS	
MI	MECHANICAL FLOOR PLANS	
M2	MECHANICAL SCHEDULES AND DETAILS	

MECHANICAL ENGINEER

MECHANICAL DESIGN, INC. 4403 BROAD RIVER ROAD COLUMBIA, S.C. 29210 (803) 731-9834

ARCHITECT

WATSON TATE SAVORY 1316 WASHINGTON ST. SUITE 100 COLUMBIA, S.C. 29201 (803) 799-5181

CTE CONNECT TO EXISTING

GENERAL NOTES

- DO NOT SCALE DRAWINGS. ROUGH FROM EQUIPMENT MANUFACTURER'S DRAWINGS AND EXISTING CONDITIONS.
- DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS.

CODE REVIEW INFORMATION

International Building Code - 2012 Edition. International Plumbing Code - 2012 Edition. International Mechanical Code - 2012 Edition.

NEW MATERIALS

EXISTING TO BE REMOVED

WATER FLOWRATE, GALLONS PER MINUTE

EXISTING CHILLED WATER SUPPLY

EXISTING CHILLED WATER RETURN

BALL YALVE (2-1/2" & SMALLER) BUTTERFLY YALVE (3" & LARGER)

PNEUMATIC CONTROL VALVE

PRESSURE REGULATING VALVE

MOTOR OPERATED CONTROL VALVE

NEW CHILLED WATER SUPPLY

NEW CHILLED WATER RETURN

PIPE TURNING DOWN

PIPE TURNING UP

CHECK YALVE

FLOOR DRAIN

STRAINER

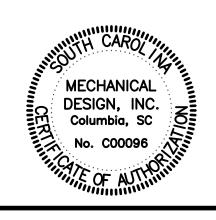
PROJECT DESIGNED IS ACCORDANCE WITH:

National Electric Code - 2011 Edition.

Seismic Design Category D

SYMBOLS

- WHENEVER THE WORD "PROVIDE" IS USED IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
- INSTALLATION OF EQUIPMENT, AND PIPING, INCLUDING VIBRATION ISOLATION SHALL COMPLY WITH 2012 INTERNATIONAL BUILDING CODE FOR
- ALL MATERIALS CALLED FOR TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, ANY ITEM THE OWNER DOES NOT WANT TO KEEP SHALL BE REMOVED FROM THE SITE.
- PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF WORK.
- PROVIDE PROTECTION OF THE EXISTING ROOF AND STRUCTURE AS NOTED ON THE DRAWINGS AND AS REQUIRED FOR CONSTRUCTION.
- PIPING SYSTEMS SHALL BE DRAINED AS REQUIRED FOR THE INSTALLATION OF
- 9. PROVIDE FOR ACCESS TO ALL MECHANICAL ITEMS REQUIRING CLEANING OR
- 10. PIPING SHALL BE KEPT CLEAN OF DEBRIS DURING INSTALLATION.





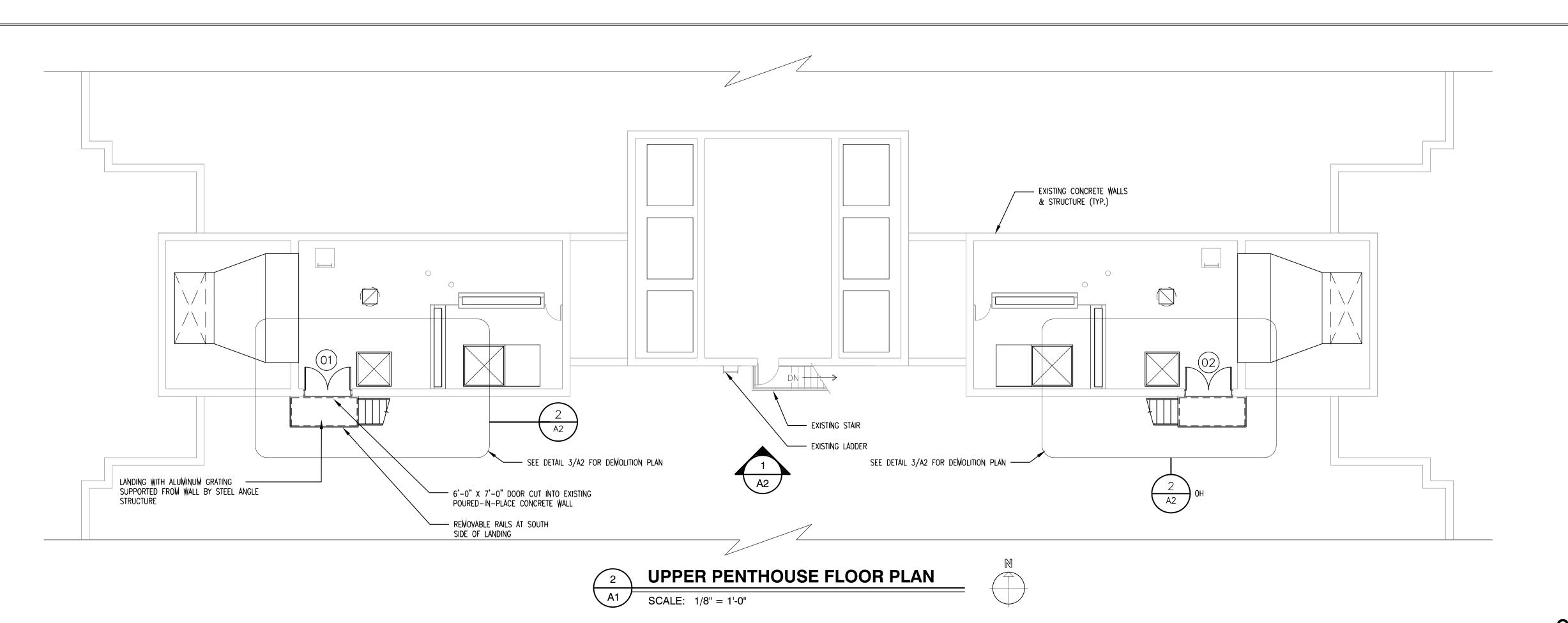
CONTACT: JUSTIN VARCO сомм. No. 163290

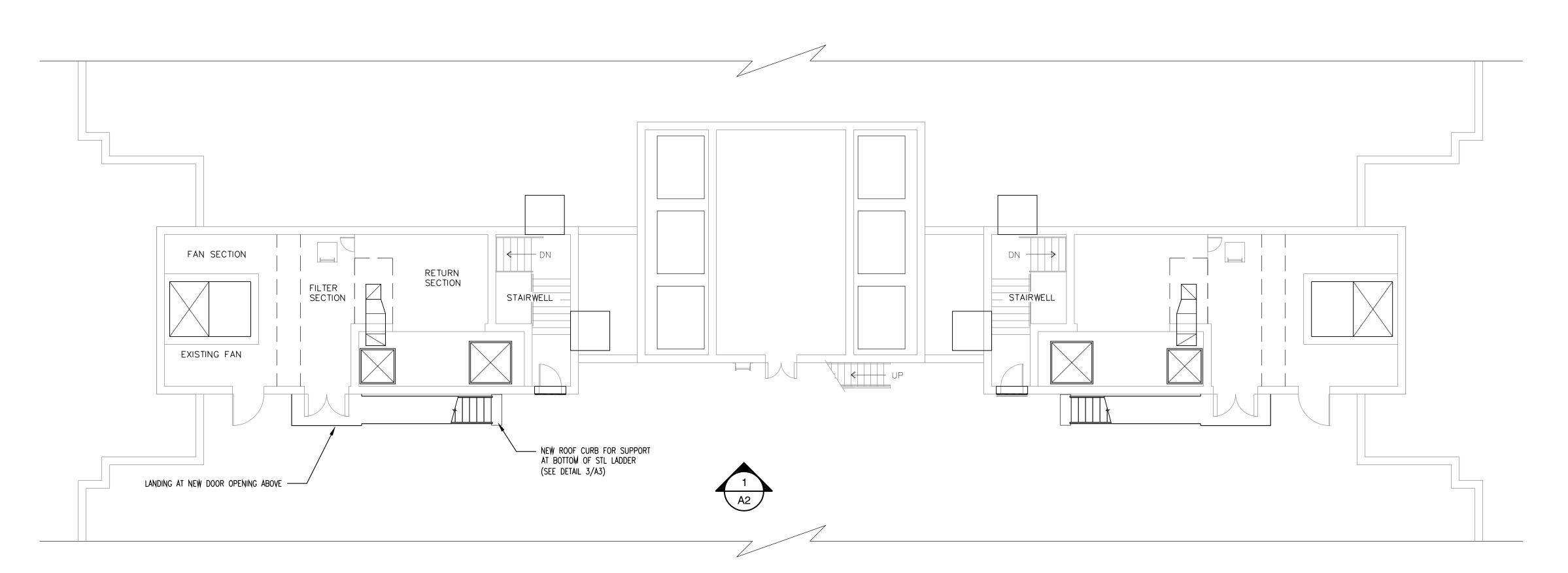
MECHANICAL 4403 Broad River Road Columbia, S.C. 29210

(803) 731-9834 (803) 731-9837 FAX

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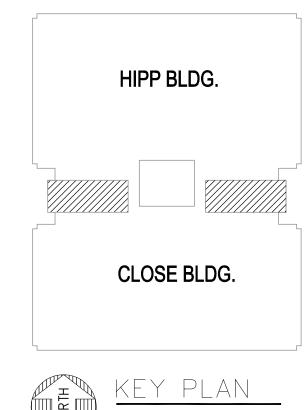
1 OF 7





GENERAL NOTES - ROOF PROTECTION

- 1. LOOSELY LAY 1.5" (MIN.) MOLDED EXPANDED POLYSTYRENE (MSPS) OR 1.5" (MIN.) OF POLYISOCYANURATE OVER THE ROOF SURFACE.
- 2. LOOSELY LAY .75" (NOMINAL) PLYWOOD OR OSB OVER THE MEPS/POLYISO.
- 3. MSPS/POLYISO MUST EXTEND A MINIMUM OF 1" PAST EDGES OF PLYWOOD/OSB.
- 4. IF MSPS/POLYISO GETS CRUSHED DURING CONSTRUCTION, REPLACE IN KIND.
- 5. THIS PROTECTION TO BE USED IN ALL AREAS USED FOR CONSTRUCTION (STORAGE/LAY-DOWN, FOOT TRAFFIC, ETC.) AND SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- 6. SYSTEM SHALL BE CONNECTED LATERALLY TO PREVENT ANY MATERIAL FROM SHIFTING AND/OR BECOMING AIRBORNE.









University

2 of

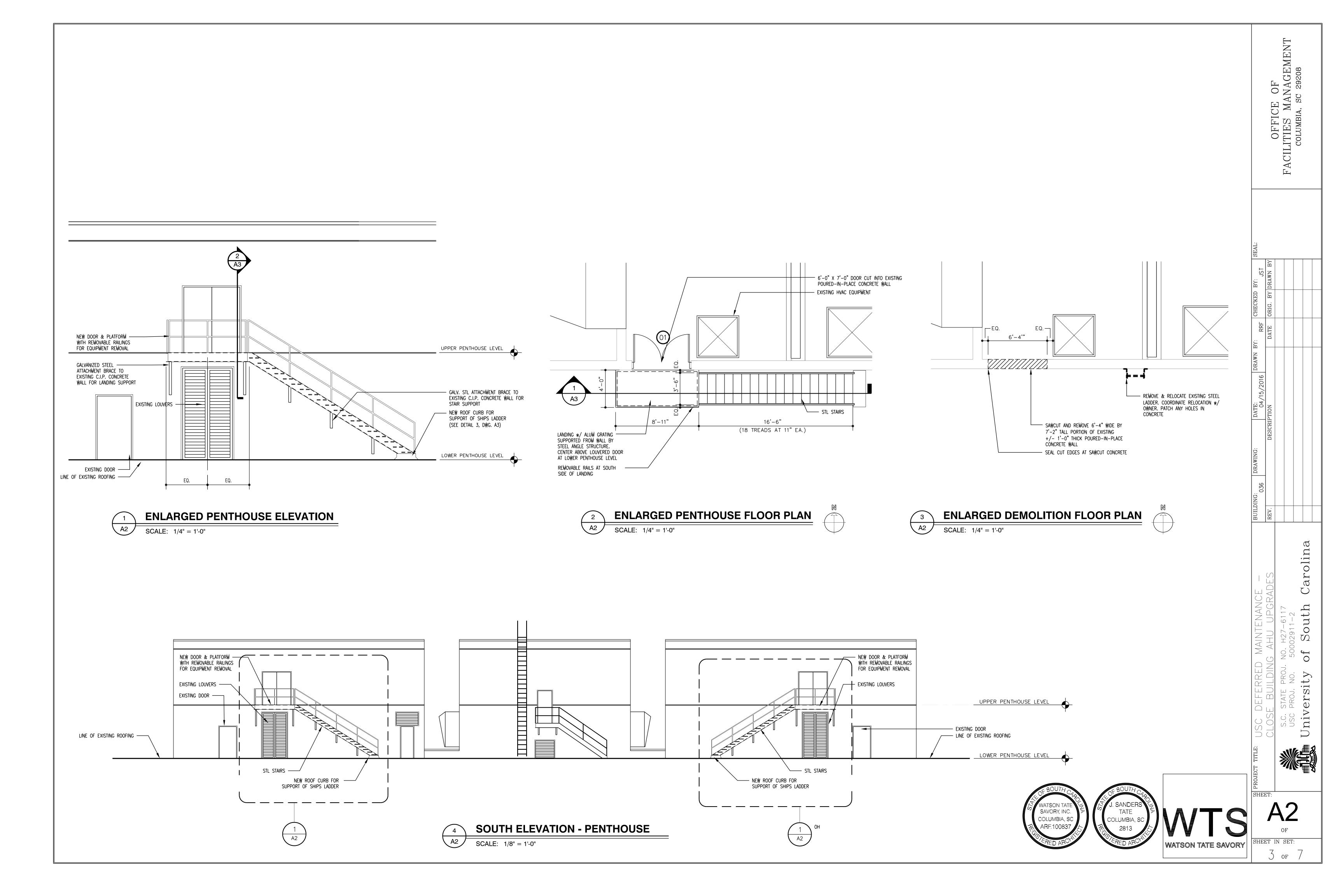
Carolina

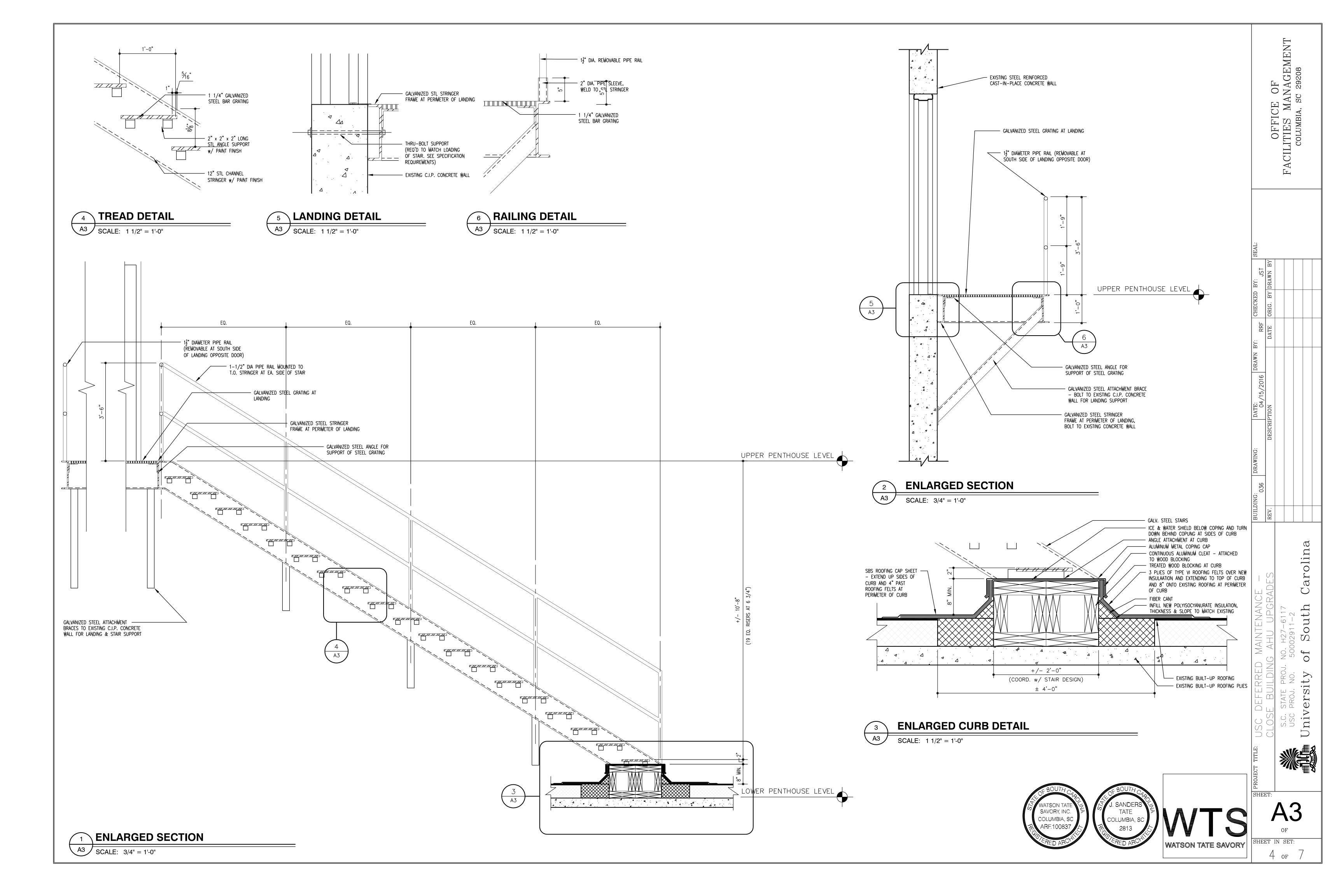
South

Of

LOWER PENTHOUSE FLOOR PLAN SCALE: 1/8" = 1'-0"

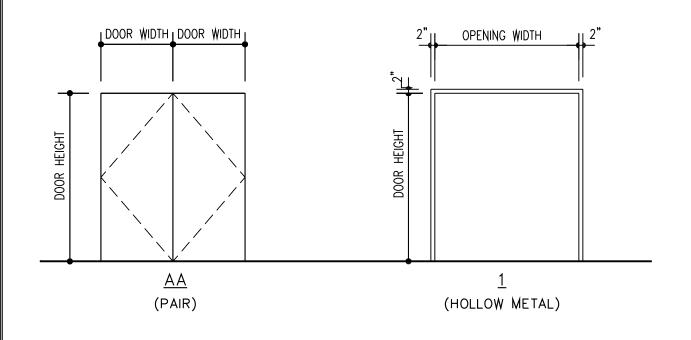


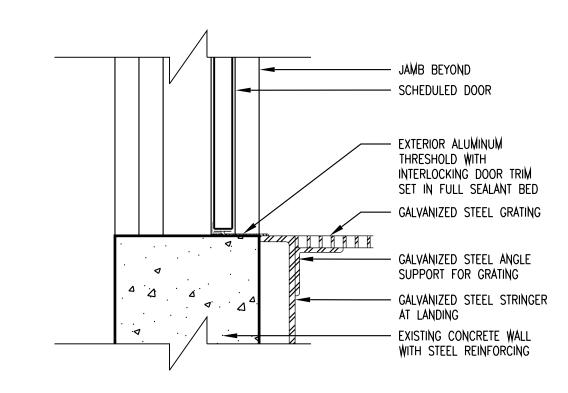


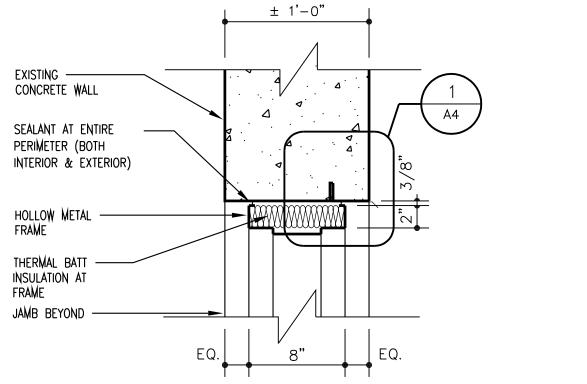


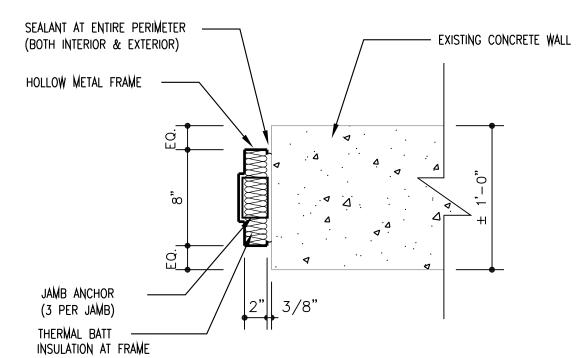
DOOR SCHEDULE

1												
DOOR	DOOR SIZE	DOOR	THK.	MATL.	FINISH	RATING	FRAME	F	RAME DETAII	LS		REMARKS
MARK	DOOR SIZE	TYPE	ITIK.	WATE.	LIMSH	HATING	TYPE	HEAD	JAMB	SILL	HDW	NEWARKS
01	PR (3'-0" x 6'-0")	AA	1 3/4"	нМ	PAINT	_	1	Н1	J1	S1	01	* PROVIDE AIR SEAL TO REDUCE AIR LEAKAGE
02	PR (3'-0" x 6'-0")	AA	1 3/4"	нМ	PAINT		1	Н1	J1	S1	01	* PROVIDE AIR SEAL TO REDUCE AIR LEAKAGE





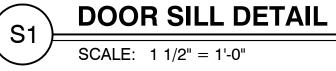




DOOR & FRAME TYPE ELEVATIONS

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



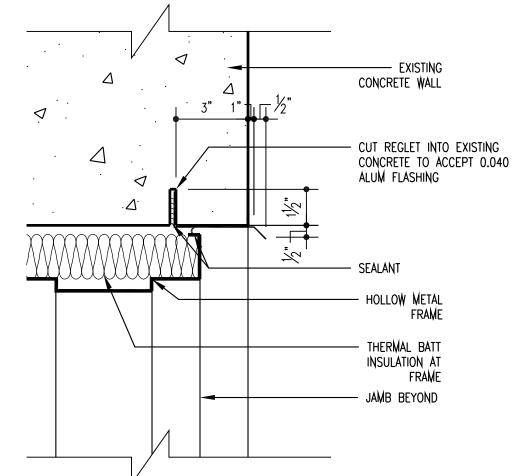




SCALE: 1 1/2" = 1'-0"

DOOR JAMB DETAIL

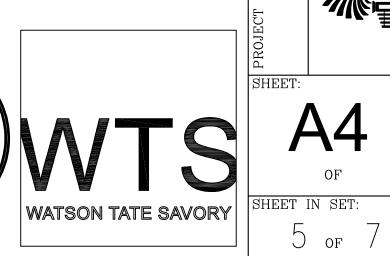
SCALE: 1 1/2" = 1'-0"



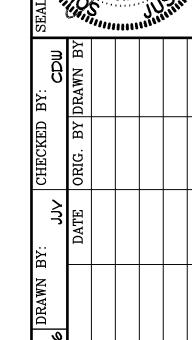


SCALE: 3" = 1'-0"





OFFICE OF FACILITIES MANAGEMENT COLUMBIA, SC 29208



OF 2

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6 OF 7

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ALL HYAC MATERIAL AND EQUIPMENT MADE OBSOLETE BY THE SCOPE

DEMOLITION NOTES

OF THIS WORK SHALL BE REMOVED FROM THE SITE, EQUIPMENT AND MATERIAL OF VALUE (REFRIGERANT, COPPER WIRING,, COPPER PIPING, CONTROL VALVES, CONTROL COMPONENTS, ETC.) SHALL BE TURNED OVER TO THE OWNER AND DELIVERED UNDAMAGED TO THE LOCATION ON SITE WHERE DIRECTED BY THE OWNER, ALL OTHER DEMOLISHED ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE.

REMOVE EXISTING CHILLED WATER COOLING COILS COMPLETE, INCLUDING CONDENSATE DRAIN PANS, ISOLATION VALVES, AND

(D3) REMOVE EXISTING ACCESS DOOR PROVIDE NEW AS INDICATED ON RENOVATION PLANS.

REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN PIPING INCLUDING SUPPORTS AND EXISTING CONTROL VALVE.

PENTHOUSE AIR

HANDLER "EAST"

D5) PATCH EXISTING CHILLED WATER SUPPLY AND RETURN PIPING PENETRATIONS.

PROVIDE ADEQUATE PROTECTION OF THE EXISTING ROOF BY LOOSELY LAYING 1-1/2" (MINIMUM) MOLDED EXPANDED POLYSTYRENE (MEPS) OR 1-1/2" (MINIMUM) OF POLYISOCYANURATE, OVER THE ROOF SURFACE. IN ADDITION TO, LOOSELY LAY 3/4" (NOMINAL) PLYWOOD OR OSB OVER THE MEPS/POLYISO. MSPS/POLYISO MUST EXTEND A MINIMUM OF 1" PAST EDGES OF PLYWOOD/OSB. IF THE MEPS/POLYISO GETS CRUSHED DURING CONSTRUCTION, REPLACE IN KIND. THIS PROTECTION TO BE USED IN ALL AREAS THAT WILL BE USED FOR CONSTRUCTION (STORAGE/LAYDOWN, FOOT TRAFFIC, ETC.) AND WILL BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES. MAKE SURE THE SYSTEM IS CONNECTED LATERALLY TO PREVENT ANY MATERIAL FROM SHIFTING, AND/OR BECOMING AIRBORNE.

(DT) IT IS THE CONTRACTORS RESPONIBLITY TO VERIFY ALL EXISTING SITE CONDITIONS, PIPE SIZES, AND DIRECTIONS OF WATER FLOW. PROVIDE NECESSARY OFFSETS IN ORDER TO CONNECT NEW COILS PER THE DETAILS AND FLOOR PLANS.

SPECIAL NOTE:

PROVIDE TEMPORARY COOLING FOR THE FIRST

FLOOR ADMINISTRATIVE AREA 102. TEMPORARY COOLING SHALL BE AVAILABLE DURING ALL PERIODS THE BUILDING AIR HANDLERS ARE SHUT DOWN. THE TEMPORARY COOLERS SHALL MAINTAIN A MAXIMUM TEMPERATURE OF 14°F. APPROXIMATE SQUARE FOOTAGE OF SPACE IS 3,500 SF WITH (12) OFFICES, (2) CONFERENCE ROOMS, AND (1) LARGE LOBBY. MAXIMUM COOLING TONNAGE IS 15 TONS. TEMPORARY COOLERS SHALL BE PLACED IN MANNER THAT DOES NOT OBSTRUCT EMERGENCY EGRESS, DROP CORDS, DUCTS, AND CONDENSATE DRAINS SHALL BE SUPPORTED PROPERLY AND TAPPED OVER AS TO NOT CREATE TRIPPING HAZARDS. PROVIDE TEMPORARY ELECTRICAL POWER AS REQUIRED BY COOLERS.

HYAC DEMOLITION FLOOR PLAN

DN

SCALE: 1/8" ===1'-0" PENTHOUSE 2ND LEVEL

— SOUND ATTENUATER

EXISTING-

CAPPED HOT

DECK DUCT.

PENTHOUSE AIR

HANDLER "WEST"

-EXISTING

EXHAUST DUCT UP TO REF

- EXISTING CHILLED

SUPPLY

DUCT.

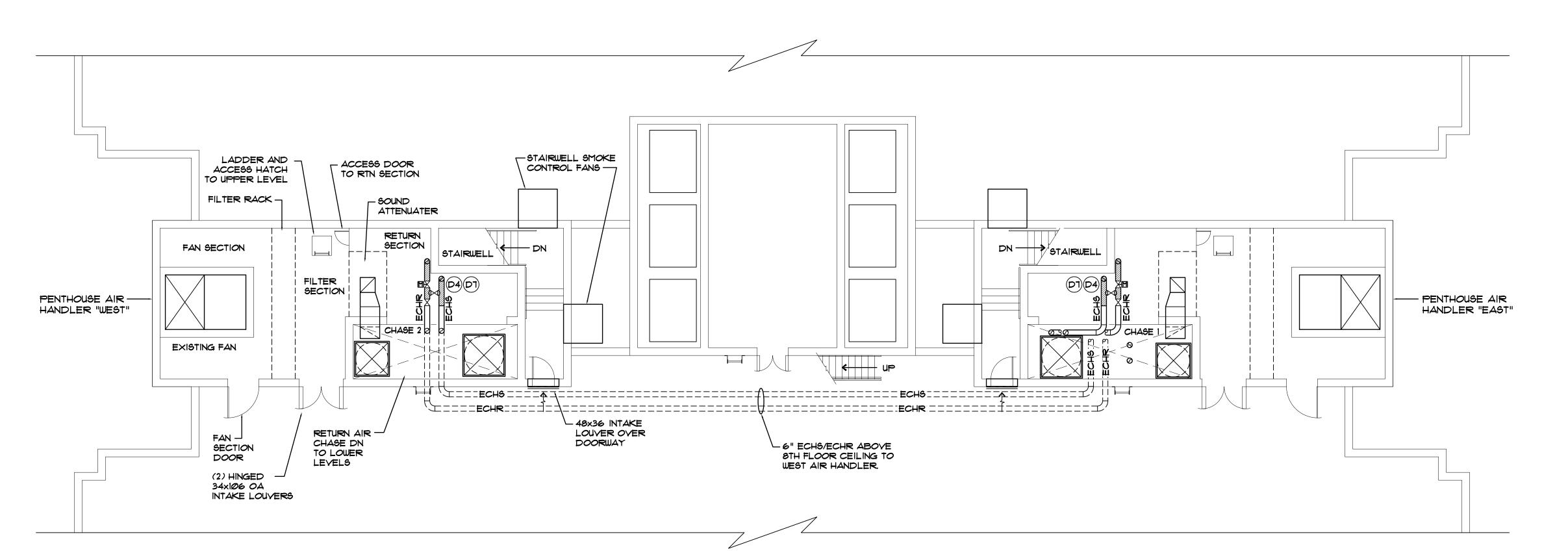
WATER SUPPLY

AND RETURN

- EXISTING CHILLED

WATER COOLING

COIL BANKS.



HYAC DEMOLITION FLOOR PLAN PENTHOUSE IST LEVEL SCALE: 1/8" ===1'-0"

HIPP BLDG.

CLOSE BLDG.

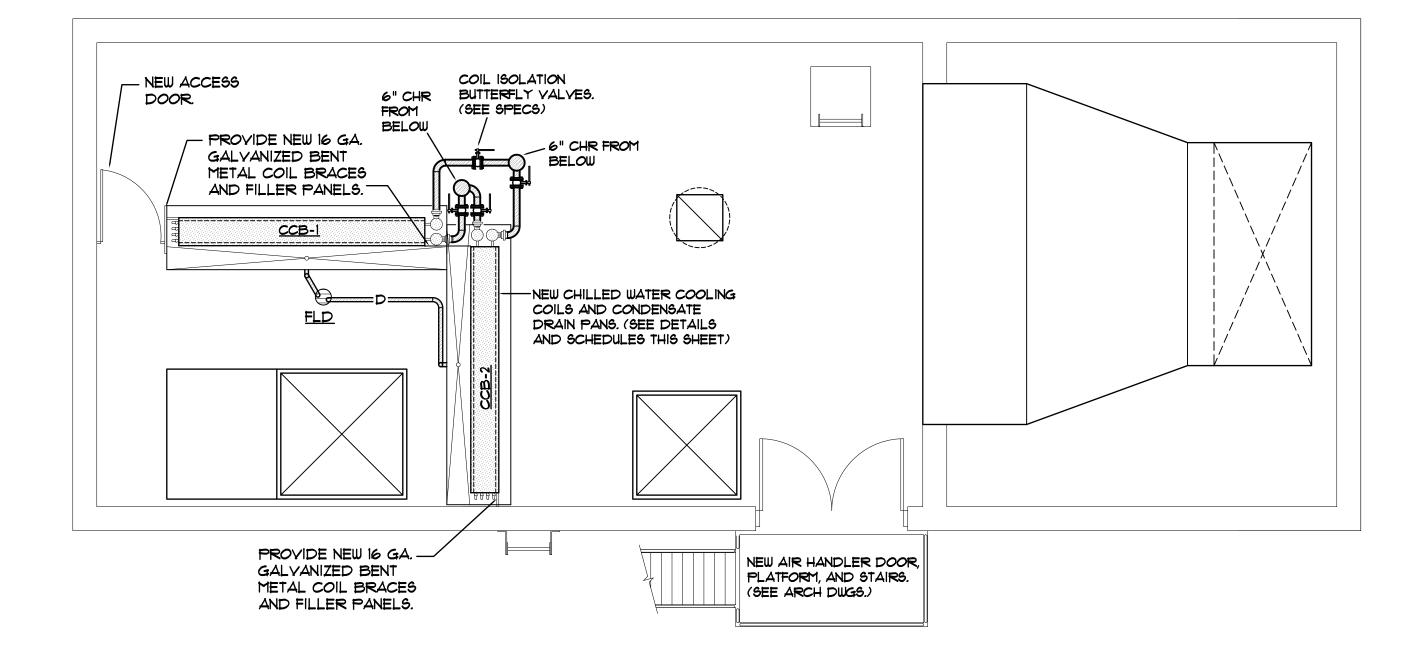






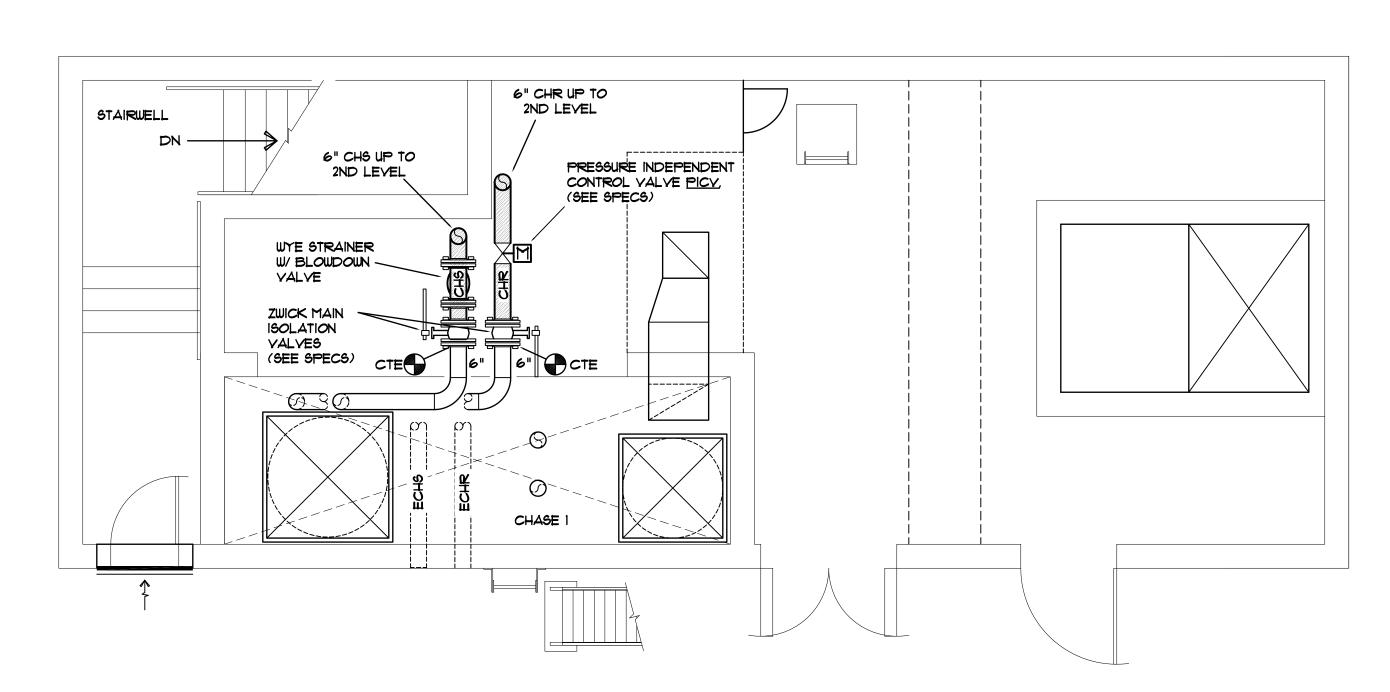
MECHANICAL 4403 Broad River Road Columbia, S.C. 29210

CONTACT: JUSTIN VARCO

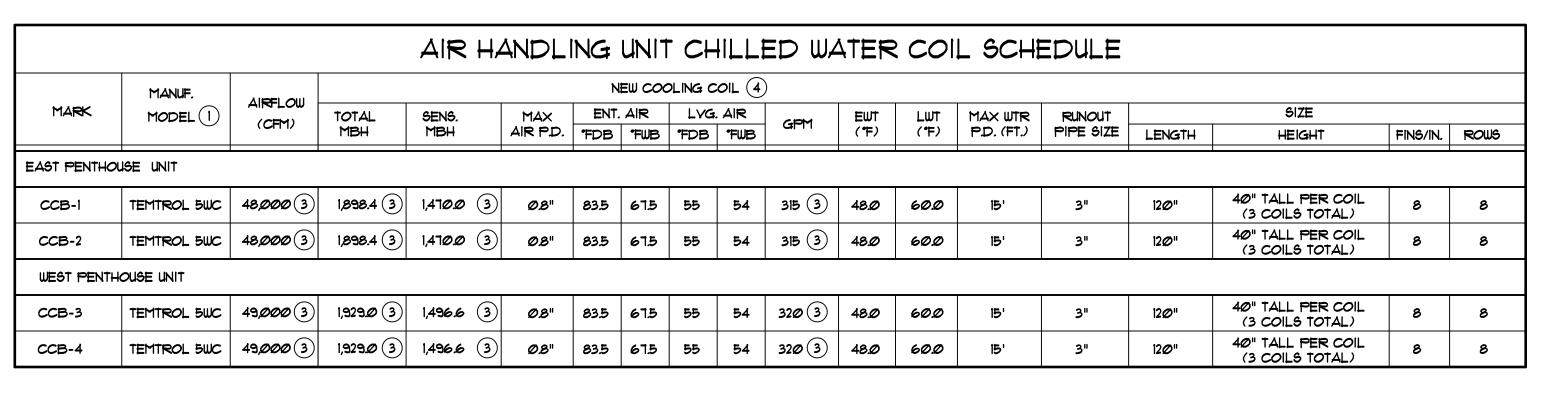


HYAC RENOVATION FLOOR PLAN

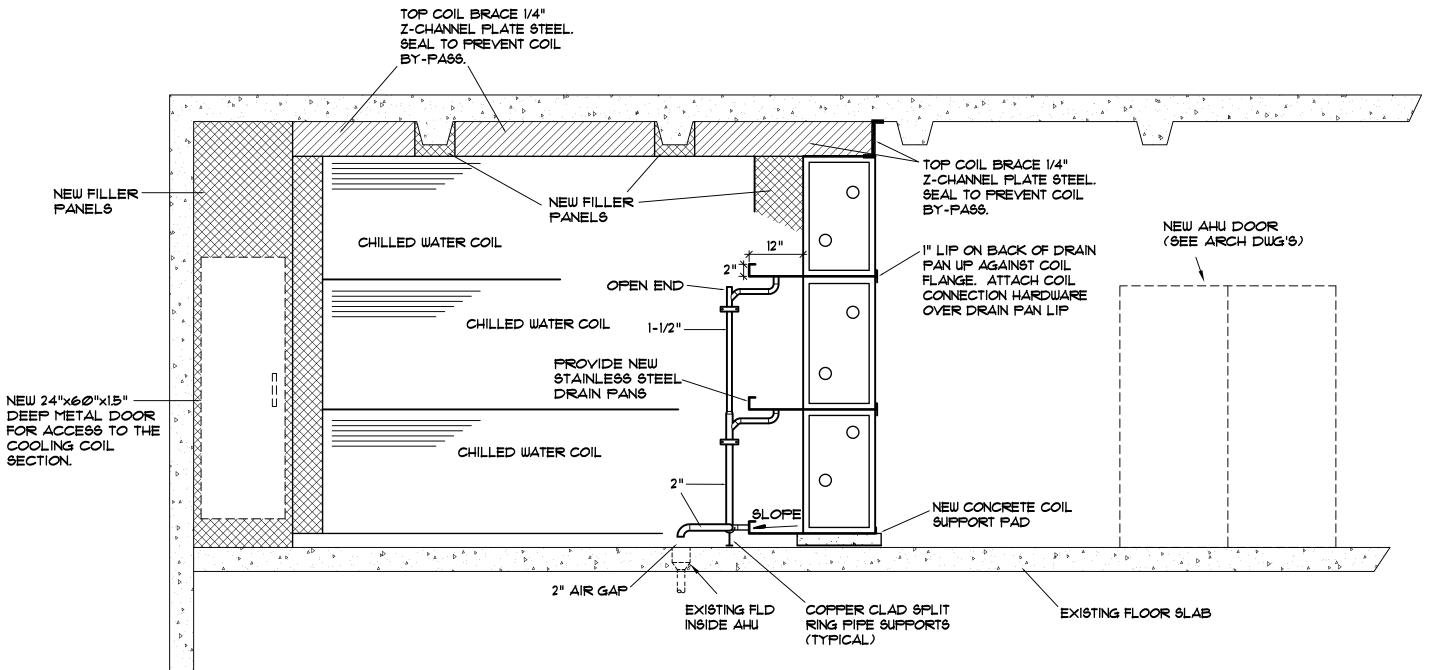
SCALE: 1/4" ===1'-0" EAST AIR HANDLER 2ND LEVEL



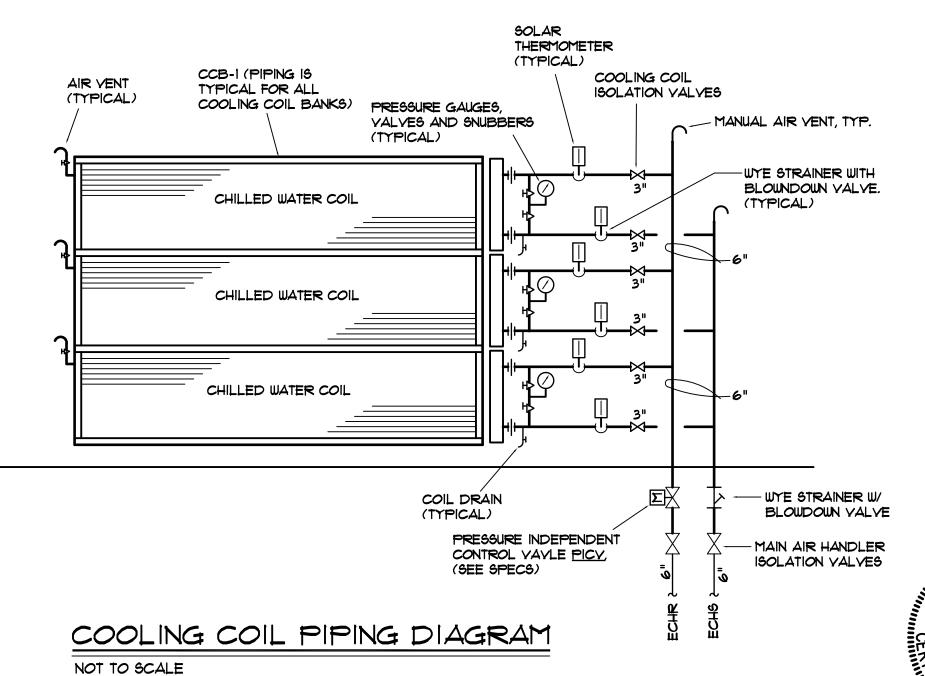
HYAC RENOVATION FLOOR PLAN SCALE: 1/4" ==1'-0" EAST AIR HANDLER IST LEVEL



- (1) FIELD MEASURE FOR EXACT COIL DIMENSIONS. (MATCH EXISTING)
- 2) BY TEMTROL, HEATCRAFT, TRANE, JCI, DAIKIN OR ACCEPTABLE EQUAL
- (3) LISTED VALUE IS TOTAL FOR COIL BANK MADE UP OF 3 INDIVIDUAL COILS.
- PROVIDE AHRI CERTIFIED COILS, WITH 5/8" COPPER TUBES, Ø.ØI" ALUMINUM CORRUGATED FINS, AND A 16 GA. 304 STAINLESS STEEL CASING.



AIR HANDLING UNIT DETAIL

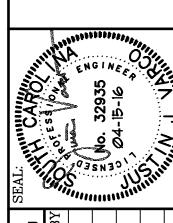


NOT TO SCALE



CONTACT: JUSTIN VARCO COMM. NO. 163290

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	REV.		DESCRIPTION	PTION		DATE	ORIG. BY	DATE ORIG. BY DRAWN BY
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USC DEFERRED MAINI
CLOSE BUILDING AHU
S.C. STATE PROJ. NO. H27
USC PROJ. NO. 5000297

SHEET:

OF 2

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7 OF 7