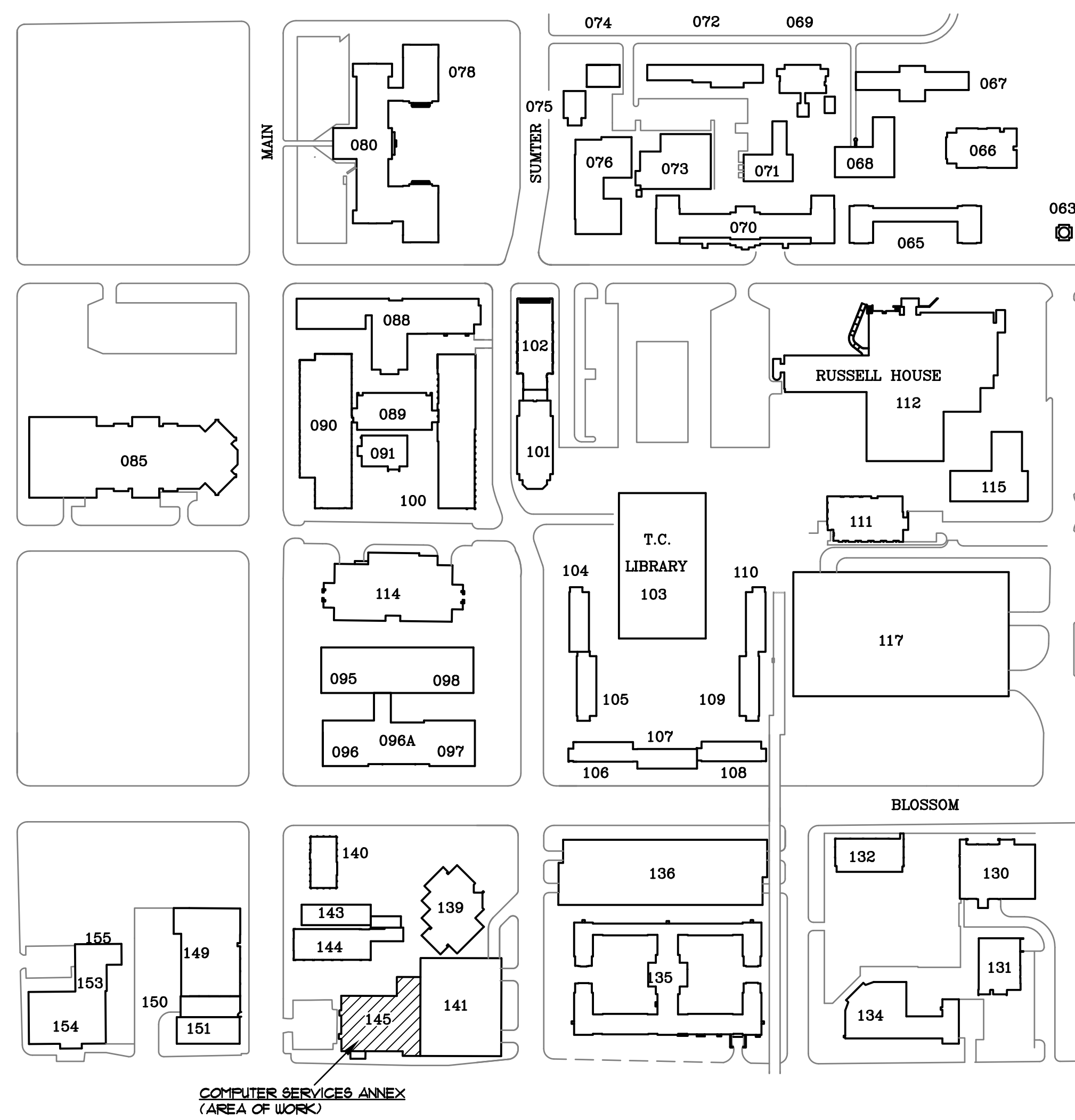


USC COMPUTER ANNEX CHILLER REPLACEMENT

USC PROJECT NO. CP00426046

THE UNIVERSITY OF SOUTH CAROLINA
COLUMBIA, SOUTH CAROLINA

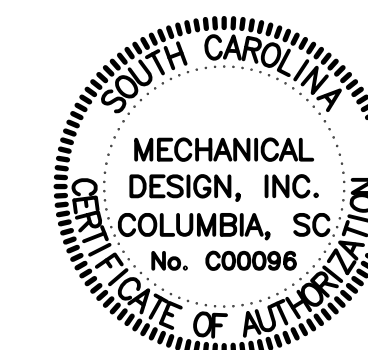
FACILITIES PLANNING AND CONSTRUCTION



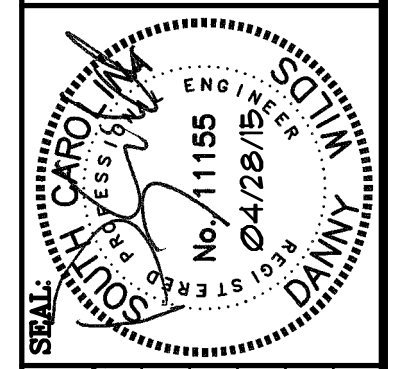
INDEX OF DRAWINGS	
CI	COVER SHEET
MI	MECHANICAL FLOOR PLAN

CODE REVIEW INFORMATION	
PROJECT DESIGNED IN ACCORDANCE WITH:	
1.	International Building Code - 2012 Edition.
2.	International Plumbing Code - 2012 Edition.
3.	International Mechanical Code - 2012 Edition.
4.	National Electric Code - 2011 Edition.
5.	Seismic Design Category C

SPECIAL NOTE:
IT IS HIGHLY RECOMMENDED THAT THE CONTRACTOR VISIT PROJECT SITE PRIOR TO SUBMITTING BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXIST CONDITIONS RELATING TO THIS PROJECT. SUBMISSION OF A BID WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE OF WORK.



MECHANICAL DESIGN, INC.
4403 Broad River Road
Columbia, S.C. 29210
(803) 731-9834
(803) 731-9837 FAX
CONTACT: D. WILDS
DATE: 04/28/15 COMM. NO. 153201



BUILDING:	DRAWING:	DATE:	DRAWN BY:	CHECKED BY:
REF.	DESCRIPTION	DATE	DATE	CDW
				ORIG. BY

PROJECT TITLE: USC COMPUTER ANNEX - CHILLER REPLACEMENT
PROJECT # CP00426046
University of South Carolina

MECHANICAL DEMOLITION NOTES

- (D1) REMOVE AIR COOLED CHILLER COMPLETE, PROVIDE NEW CHILLER AS INDICATED.
- (D2) REMOVE NECESSARY CHILLED WATER PIPE AS REQUIRED TO REPLACE CHILLER

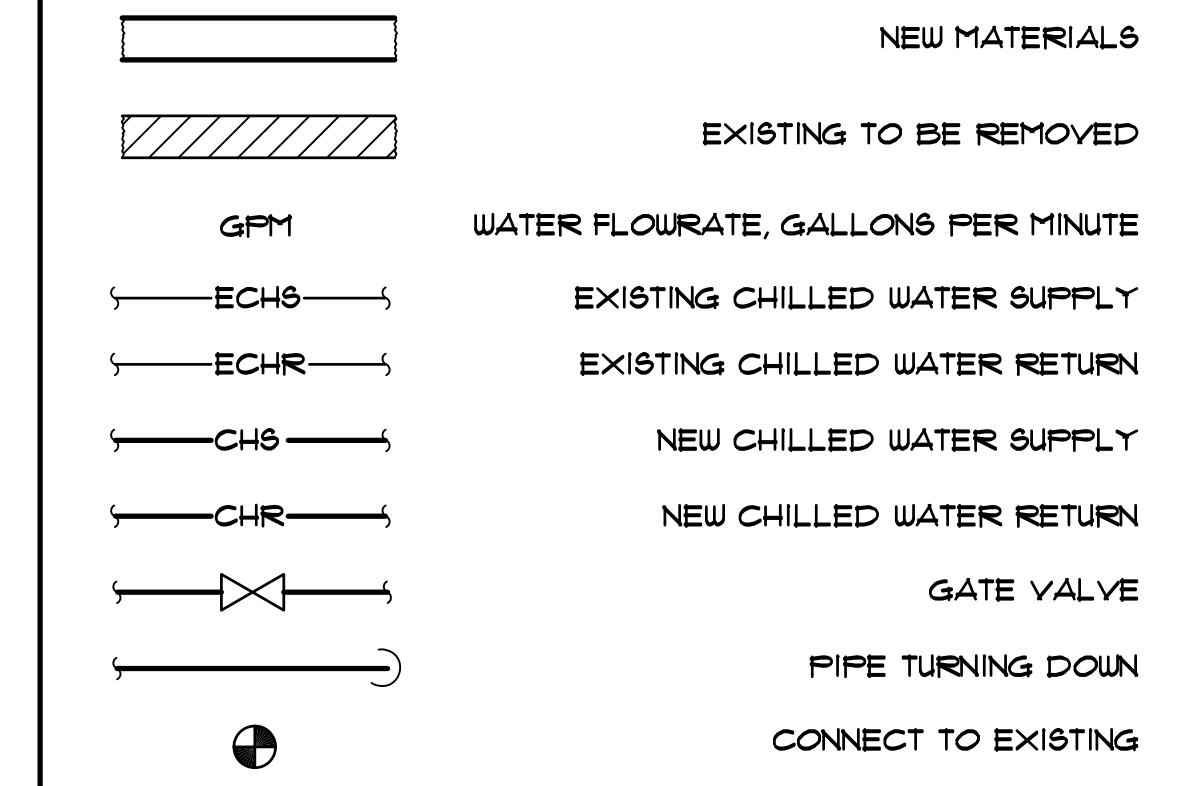
ELECTRICAL DEMOLITION NOTES

- (E1) EXISTING DISCONNECT SWITCH AND EQUIPMENT FEEDER FOR EXISTING CHILLER TO REMAIN. DISCONNECT CIRCUIT, CONDUIT, AND FLEX FROM EXISTING UNIT AND RECONNECT TO NEW UNIT. SPLICE, EXTEND AND/OR REROUTE EXISTING CIRCUIT TO UNIT AS REQUIRED.
- (E2) CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY IF EXISTING WIRE SIZE, CIRCUIT BREAKER SIZE, AND/OR DISCONNECT SIZE DO NOT MATCH MCAMP8/MOCP OF NEW CHILLER.
- (E3) DISCONNECT EXISTING LIGHTING PROTECTION FROM EXISTING CHILLER AND RECONNECT TO NEW CHILLER.
- (E4) DISCONNECT EXISTING HEAT TRACING FROM EXISTING CHILLER AND RECONNECT TO NEW CHILLER.

MECHANICAL RENOVATION NOTES

1. DO NOT SCALE DRAWINGS. ROUGH FROM EQUIPMENT MANUFACTURER'S DRAWINGS AND EXISTING CONDITIONS.
2. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS.
3. WHENEVER THE WORD "PROVIDE" IS USED IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
4. INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING, INCLUDING VIBRATION ISOLATION SHALL COMPLY WITH 2012 INTERNATIONAL BUILDING CODE FOR SEISMIC PROTECTION.
5. ALL MATERIALS CALLED FOR TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. ANY ITEM THE OWNER DOES NOT WILL TO KEEP SHALL BE REMOVED FROM THE SITE.
6. PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF WORK.
7. PIPING SYSTEMS SHALL BE DRAINED AS REQUIRED FOR INSTALLATION OF WORK.
8. PROVIDE FOR ACCESS TO ALL MECHANICAL ITEMS REQUIRING CLEANING OR ADJUSTMENT.
9. PIPING SHALL BE KEPT CLEAN OF DEBRIS DURING INSTALLATION.
10. EXISTING CONTROLS HARDWARE AND ANCILLARY DEVICES TO REMAIN. DISCONNECT EXISTING FROM CHILLER TO BE REMOVED AND RECONNECT TO REPLACEMENT CHILLER. ALL CONTROL WORK SHALL BE PERFORMED BY JOHNSON CONTROLS INC.
11. INTERLOCK FREEZE PROTECTION AQUA-STAT ON CHILLER EVAPORATOR WITH THE CHILLED WATER CONTROL VALVE. VALVE SHALL BE POSITIONED SO THAT WATER CONTINUOUSLY FLOWS THROUGH EVAPORATOR BARREL WHEN THE WATER TEMPERATURE IS BELOW 35°F. COORDINATE WITH CHILLER START-UP TECHNICIAN TO INSURE PROPER OPERATION.

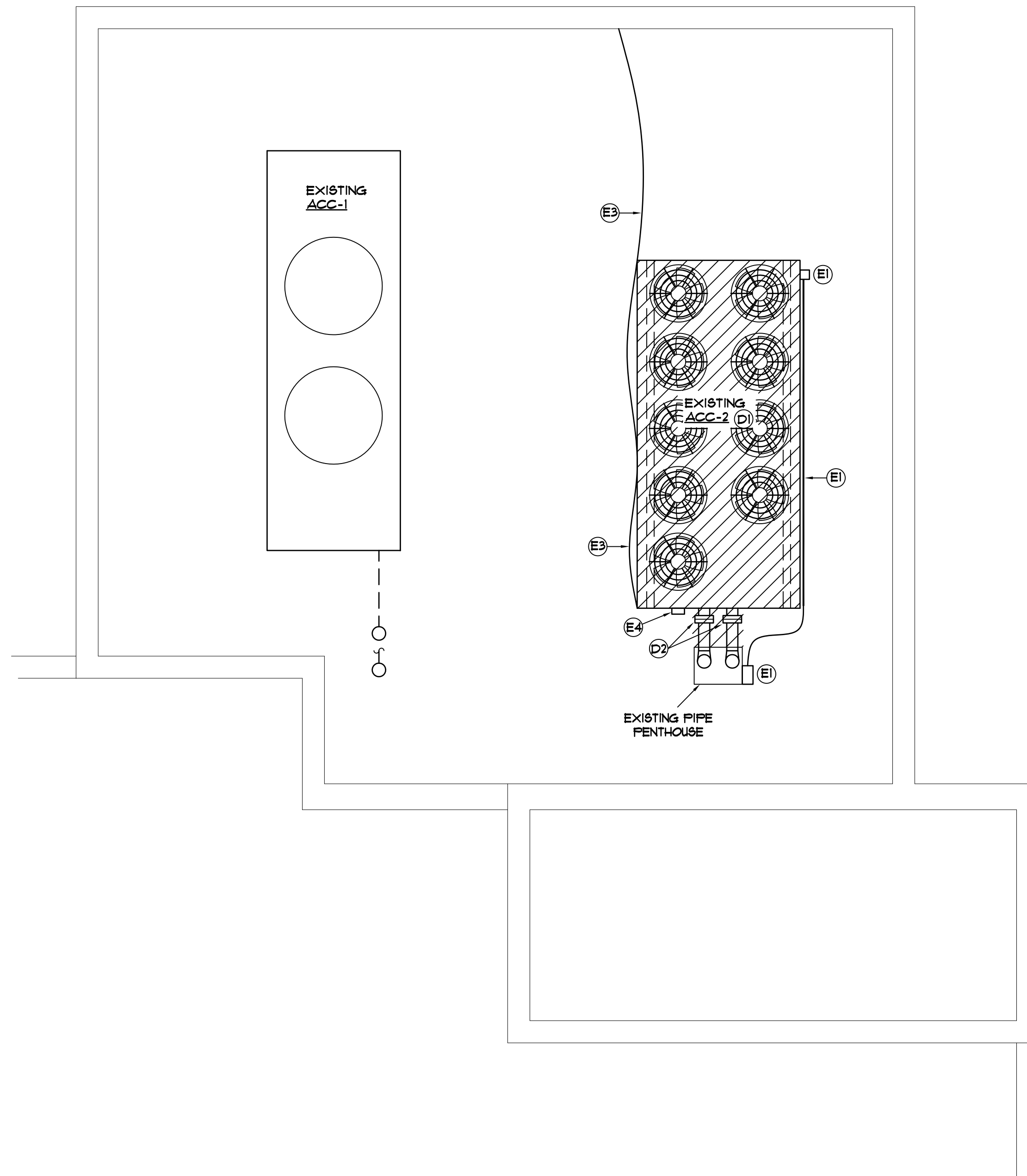
SYMBOLS



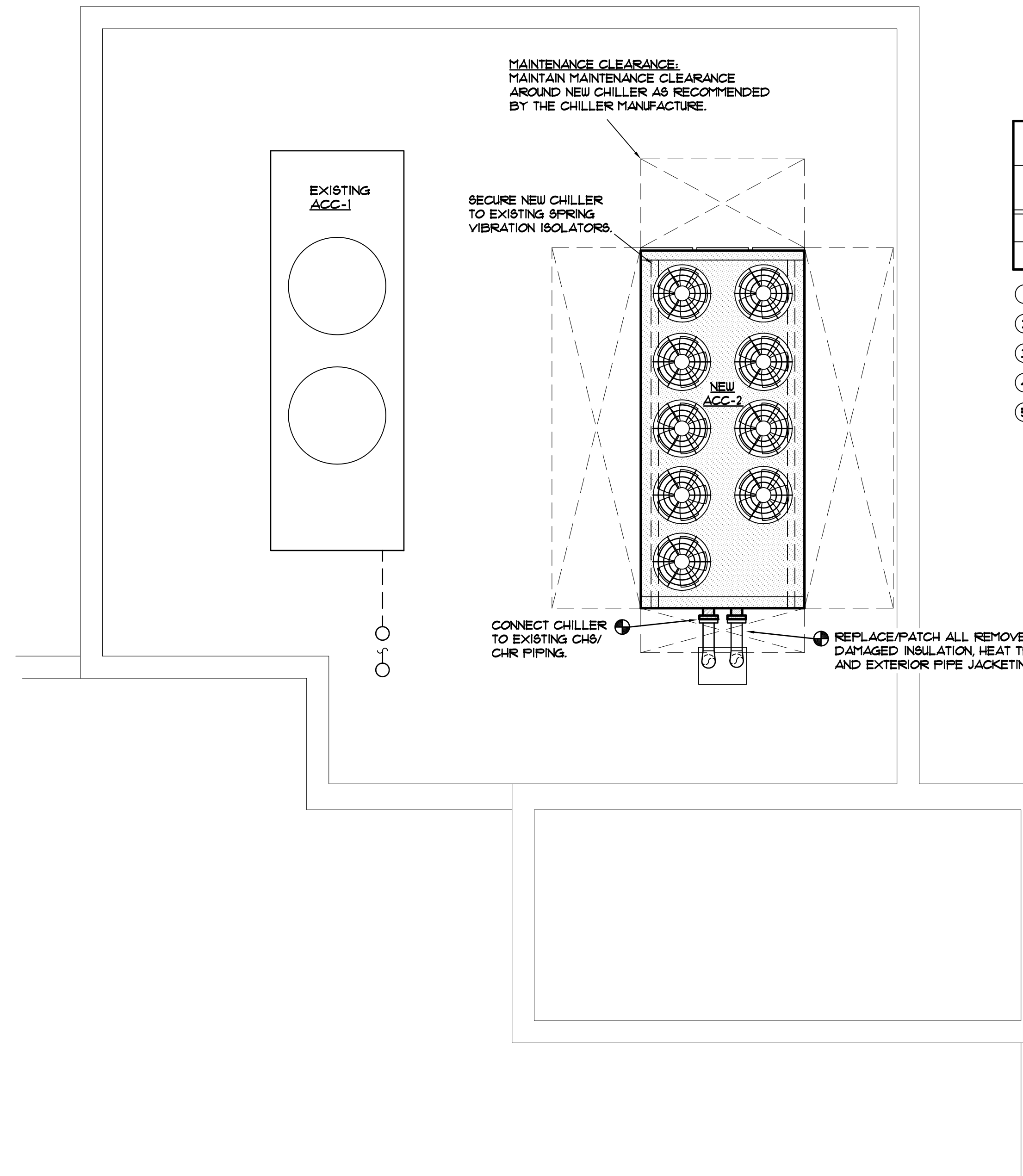
AIR COOLED CHILLER SCHEDULE ①

MARK	TRANE MODEL ④	NOM. TONS	EWT	LWT	GPM	WPD	EER ③
ACC-2	RTAC 155	155	53.9°F	45.0°F	408	15.0'	9.9

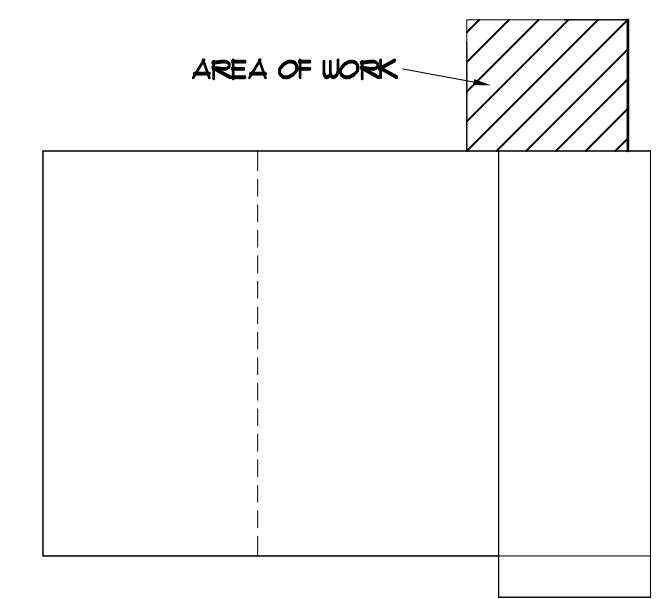
- ① SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
- ② COOLING CAPACITY BASED ON 95° F. AIR ENTERING CONDENSER.
- ③ ARI 550/530 CERTIFIED.
- ④ OR ACCEPTED EQUAL, SEE SPECIFICATIONS.
- ⑤ SEE SPECIFICATIONS FOR ACCESSORIES



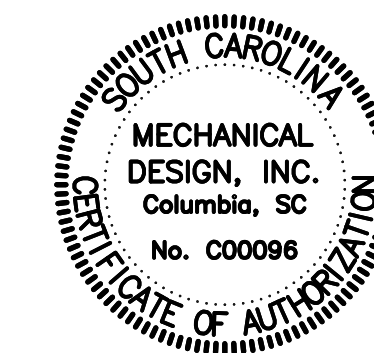
MECHANICAL HYAC DEMOLITION PLAN
SCALE: 1/4" = 1'-0" ROOF LEVEL



MECHANICAL HYAC RENOVATION PLAN
SCALE: 1/4" = 1'-0" ROOF LEVEL

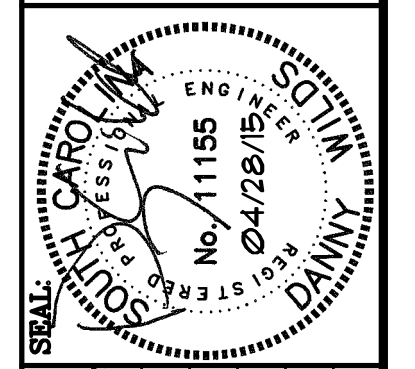


KEY PLAN
NO SCALE



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CAMPUS PLANNING
AND CONSTRUCTION
COLUMBIA, SC 29208



DATE	DESCRIPTION	BY

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