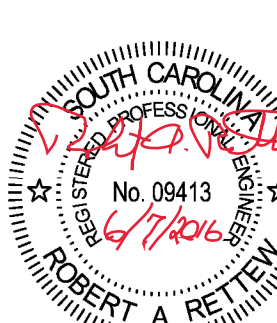
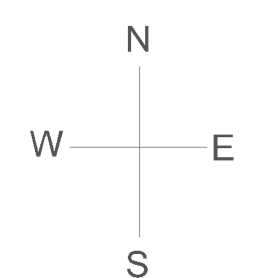


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Proj. No.: 2492
Drawing No.: M004



Client:
Upstate Developers LLC

Lofts by the Lake
Racing Rd
Greer SC 29651

400 Level HVAC plan

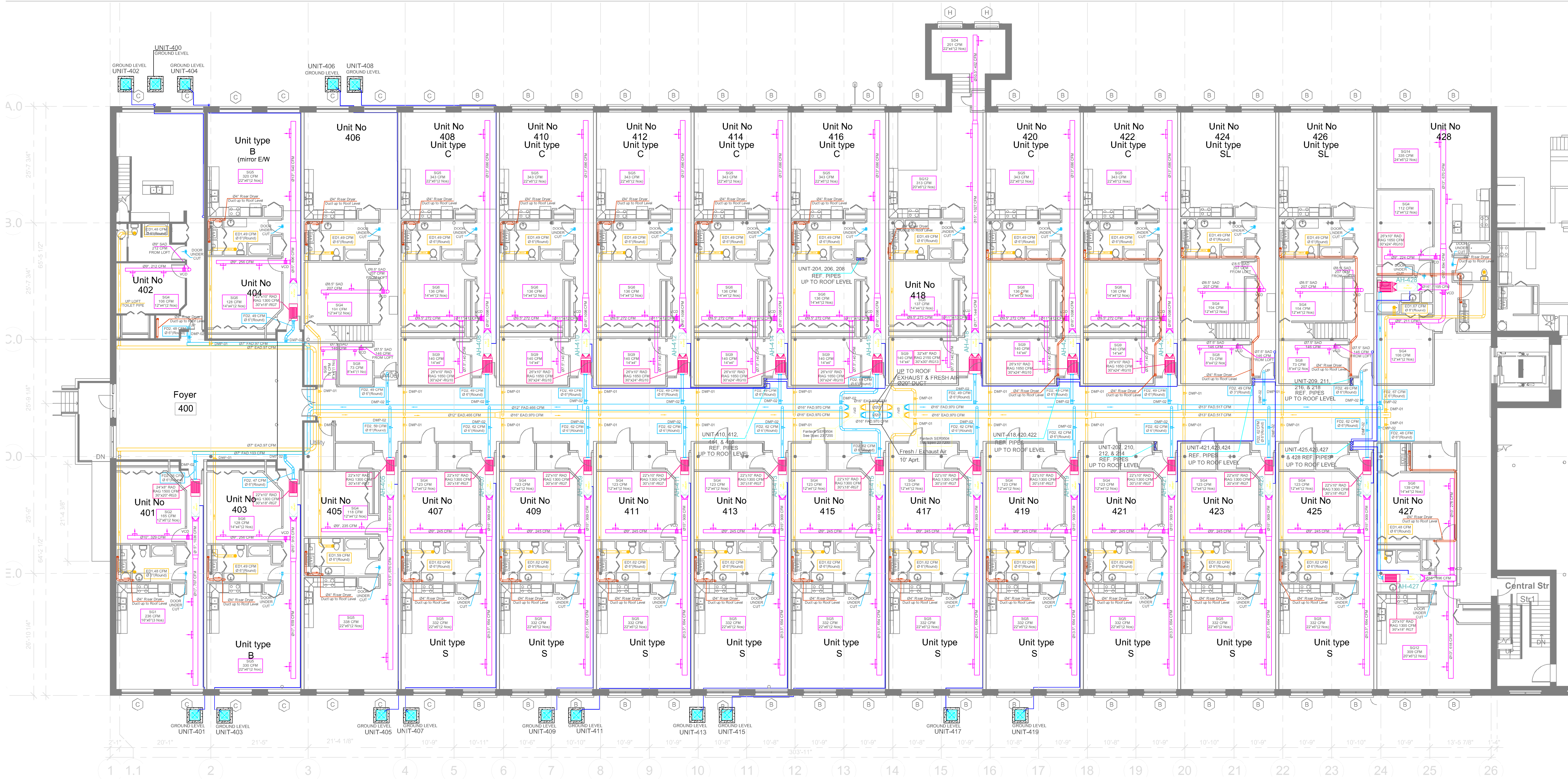
Scale: 2" = 10' SCALE CHECK

Issue Date: 4/13/16

No.	Revision Description	Date

Project number: 2492

M104



MULTI POSITION AIR HANDLER SCHEDULE (MAKE-GOODMAN)					
Tag No.	Description	TR	CFM	QTY.	SIZES
AH-401	UNIT-401	2.5	1036	1	17 1/2" H x 21" W x 53 1/8" L
AH-402	UNIT-402	3.0	1284	1	21" H x 21" W x 53 1/8" L
AH-403	UNIT-403 (Type-"B")	2.5	915	1	17 1/2" H x 21" W x 53 1/8" L
AH-404	UNIT-404 (Type-"B")	2.5	896	1	17 1/2" H x 21" W x 53 1/8" L
AH-405	UNIT-405	2.5	911	1	17 1/2" H x 21" W x 53 1/8" L
AH-406	UNIT-406 (Type-"S-L")	3.5	1385	1	21" H x 21" W x 53 1/8" L
AH-407	UNIT-407 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-408	UNIT-408 (Type-"C")	3.0	1098	1	21" H x 21" W x 53 1/8" L
AH-409	UNIT-409 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-410	UNIT-410 (Type-"C")	3.0	1098	1	21" H x 21" W x 53 1/8" L
AH-411	UNIT-411 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-412	UNIT-412 (Type-"C")	3.0	1098	1	21" H x 21" W x 53 1/8" L
AH-413	UNIT-413 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-414	UNIT-414 (Type-"C")	3.0	1098	1	21" H x 21" W x 53 1/8" L
AH-415	UNIT-415 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-416	UNIT-416 (Type-"C")	3.0	1098	1	21" H x 21" W x 53 1/8" L
AH-417	UNIT-417 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-418	UNIT-418 (TOWER)	3.5	1440	1	21" H x 21" W x 53 1/8" L
AH-419	UNIT-419 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-420	UNIT-420 (Type-"C")	3.0	1098	1	21" H x 21" W x 53 1/8" L
AH-421	UNIT-421 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-422	UNIT-422 (Type-"C")	3.0	1098	1	21" H x 21" W x 53 1/8" L
AH-423	UNIT-423 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-424	UNIT-424 (Type-"S-L")	3.5	1385	1	21" H x 21" W x 53 1/8" L
AH-425	UNIT-425 (Type-"S")	2.5	909	1	17 1/2" H x 21" W x 53 1/8" L
AH-426	UNIT-426 (Type-"S-L")	3.5	1385	1	21" H x 21" W x 53 1/8" L
AH-427	UNIT-427	2.5	896	1	17 1/2" H x 21" W x 53 1/8" L
AH-428	UNIT-428	3.0	1105	1	21" H x 21" W x 53 1/8" L

16 SEER SPLIT SYSTEM HEAT PUMP (MAKE-GOODMAN)			
Description	TR	QTY.	SIZES
UNIT-401	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-402	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-403 (Type-"B")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-404 (Type-"B")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-405	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-406 (Type-"S-L")	3.5	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-407 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-408 (Type-"C")	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-409 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-410 (Type-"C")	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-411 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-412 (Type-"C")	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-413 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-414 (Type-"C")	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-415 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-416 (Type-"C")	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-417 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-418 (TOWER)	3.5	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-419 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-420 (Type-"C")	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-421 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-422 (Type-"C")	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-423 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-424 (Type-"S-L")	3.5	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-425 (Type-"S")	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-426 (Type-"S-L")	3.5	1	35 1/2" W x 35 1/2" D x 38 1/2" H
UNIT-427	2.5	1	29" W x 29" D x 38 1/2" H
UNIT-428	3.0	1	35 1/2" W x 35 1/2" D x 38 1/2" H

GRILLS SCHEDULE					
Tag No.	Description	CFM	SIZES	QTY.	TOTAL
SG1	UNIT-401	236	16" x 6"	3 SG	03
SG2	UNIT-401	165	12" x 6"	2 SG	02
RG3	UNIT-401	1500	30" x 20"	1 RG	01
SG4	UNIT-402,405,406,407,409,411,413,415,417,419,421,423,424,425,426,428,428	106	12" x 4"	2 SG	34
SG5	UNIT-403,404,405,407,408,409,410,411,412,413,414,415,416,417,419,420,421,422,423,425	330	22" x 6"	2 SG	40
SG6	UNIT-403,404,408,410,412,414,416,418,420,422,427	128	14" x 4"	2 SG	22
RG7	UNIT-403,405,407,409,411,413,415,417,419,421,423,425,427	1300	30" x 18"	1 RG	13
SG8	UNIT-406,406,424,424,426	73	8" x 4"	1 SG	05
SG9	UNIT-408,410,412,414,416,418,420,422	140	14" x 4"	1 SG	08
RG10	UNIT-408,410,412,414,416,420,422,428	1650	30" x 24"	1 RG	08
SG11	UNIT-418	201	22" x 4"	2 SG	02
SG12	UNIT-418,427	313	20" x 6"	2 SG	04
RG13	UNIT-418	2150	30" x 30"	1 RG	01
SG14	UNIT-428	335	24" x 6"	2 SG	02

ALLU. ROUND REGISTERS FOR MAKE UP AIR				
Tag No.	Description	CFM	SIZES	QTY.
ED1	UNIT-302 TO 324	47 TO 70	Ø6"	29
ED3&FD3	CORRIDOR	180	Ø8"	1E+1F

ROUND DAMPER FOR MAKE UP AIR				
Tag No.	Description	SIZES	QTY.	
DMP-01	UNIT-401 TO 425 (EXHAUST)	Ø6"	29	
DMP-02	UNIT-302 TO 314 (FRESH AIR)	Ø6"	28	
DMP-03	UNIT-CORRIDOR (EXHAUST & FRESH AIR)	Ø8"	02	



NOTES:

- (1) ALL SUPPLY AND RETURN GRILLS WITH DAMPER.
- (2) All dryers this level to have dryer ducts routed to nearest 8" demising wall and then to roof level.
- (3) All Ref. Pipes will go to the roof through demising walls.
- (4) DUCTWORK
 - All HVAC Systems are to use spiral duct.
 - Supply and Return air plenum can be rectangular with transition to round duct.
 - Return air plenum should have sound reduction, and filter racks for MERV 8 filters.
 - Return air with 90 Degree turn to reduce air noise, ducts lined for reduce air noise, or use duct board.
 - All units with return filter rack with grill.
 - In cases where air handler sits over a hallway, turn the return air down. The air will be ducted through the ceiling with grill and filter rack available for servicing from ceiling side.
- (5) The ERV fresh air intake and exhaust air outlet reach free air, they must have 10' of horizontal separation.

- LEGENDS**
- SUPPLY AIR
 - RETURN AIR
 - EXHAUST AIR
 - FRESH AIR
 - REFEREGENT PIPE
 - DRYER AIR

400 LEVEL HVAC LAYOUT