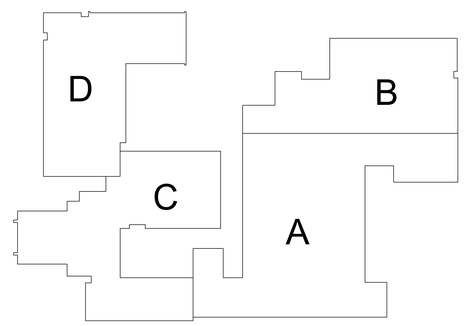
RAMA ROAD ELEMENTARY
RESOURCE DRAWINGS FROM EXISTING CONDITIONS

OWNER INFORMATION
CHARLOTTE-MECKLENBURG SCHOOLS
1035 RAMA RD.
CHARLOTTE, NC 28211

ENGINEER INFORMATION
TMG CONSULTING ENGINEERS
401 HAWTHORNE STREET
SUITE 110 / 170
CHARLOTTE, NC 28204

SHEET INDEX

1 SITE PLAN
NOT TO SCALE
TRUE NORTH



2 KEY PLAN
NOT TO SCALE
PLAN NORTH

TMG CONSULTING ENGINEERS

ISSUED FOR CONSTRUCTION

CHARLOTTE-MECKLENBURG SCHOOLS
RAMA ROAD ELEMENTARY
RESOURCE DRAWINGS FROM EXISTING CONDITIONS
CHARLOTTE - MECKLENBERG SCHOOLS
1035 RAMA RD.
CHARLOTTE, NC 28211

REVISIONS

NO.	DESCRIPTION	DATE
	ISSUED FOR CONSTRUCTION	01/6/23

SHEET INFORMATION

DATE	01/06/2023
JOB NUMBER	2202-01-003
DRAWN	ALG
APPROVED	CTM

COVER PAGE

RM-001

SHEET 1 OF 7

NOTE:
SEE SHEET M4
FOR CONTINUATION

ORIGINAL CONSTRUCTION - 1963

ORIGINAL CONSTRUCTION - 1963

1991 RENOVATION

THIS AREA CHANGED WITH 1991 RENOVATION (SEE DETAIL BELOW)

PROVIDE 1" CONDENSATE DRAIN FROM VENTILATOR, UNDER FLOOR/SIDE TO THE DRYWELL. RUN EACH INDIVIDUALLY. (TYPICAL)

IF ALTERNATE #5 IS NOT ACCEPTED, CAP PIPES AT THIS POINT FOR FUTURE CONNECTION.

NOTE : COORDINATE EXACT LOCATION OF NEW CHILLED WATER SUPPLY AND CHILLED WATER RETURN PIPING WITH EXISTING HOT WATER SUPPLY AND HOT RETURN PIPING AND EXISTING ROOF STRUCTURE.

GEN. CONTRACTOR SHALL REMOVE EXISTING PANEL BELOW WINDOW AND PROVIDE NEW 1'-4"H x 5'-4"W OPENING IN MASONRY WITH INTAKE LOUVER. SEE ARCHITECT DETAIL (TYPICAL).

COORDINATE PIPES DOWN TO U.V. WITH PIPE ENCLOSURE BY G.C. SEE ENCLOSURE DETAIL ON SHEET A3.3. (TYPICAL)

1 PARTIAL PLAN - NEW WORK

1 MECHANICAL FLOOR PLAN AREA A

SCALE: 1/8"=1'-0"

NORTH

KEYPLAN

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28202 704-333-3312
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MECHANICAL
FLOOR PLAN AREA A

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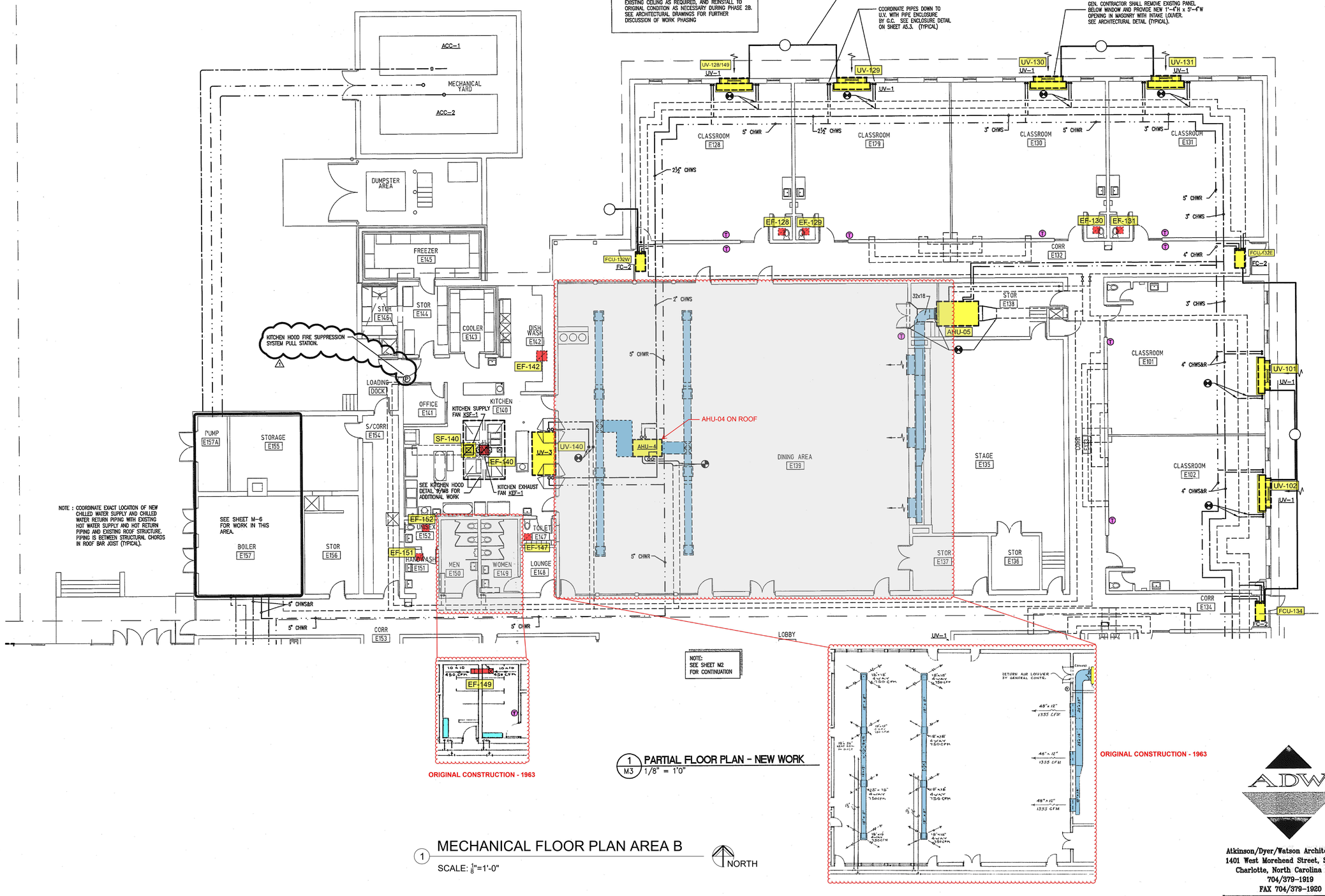
SHEET 2 OF 7

HVAC PIPING MAINS SHALL BE COMPLETED DURING PHASE 2B. MECHANICAL CONTRACTOR SHALL REMOVE EXISTING CEILING AS REQUIRED, AND REINSTALL TO ORIGINAL CONDITION AS NECESSARY DURING PHASE 2B. SEE ARCHITECTURAL DRAWINGS FOR FURTHER DISCUSSION OF WORK PHASING

PROVIDE 1" CONDENSATE DRAIN FROM UNIT VENTILATOR, UNDER FLOOR/SIDEWALK/GRADE, TO THE DRYWELL. RUN EACH DRAIN INDIVIDUALLY. (TYPICAL)

COORDINATE PIPES DOWN TO U.V. WITH PIPE ENCLOSURE BY G.C. SEE ENCLOSURE DETAIL ON SHEET A5.3. (TYPICAL)

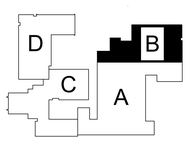
GEN. CONTRACTOR SHALL REMOVE EXISTING PANEL BELOW WINDOW AND PROVIDE NEW 1'-4"H x 5'-4"W OPENING IN MASONRY WITH INTAKE LOUVER. SEE ARCHITECTURAL DETAIL (TYPICAL).



1 / M3 PARTIAL FLOOR PLAN - NEW WORK
1/8" = 1'0"

1 MECHANICAL FLOOR PLAN AREA B
SCALE: 1/8"=1'-0"

NORTH



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704/379-1919
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MECHANICAL FLOOR PLAN AREA B

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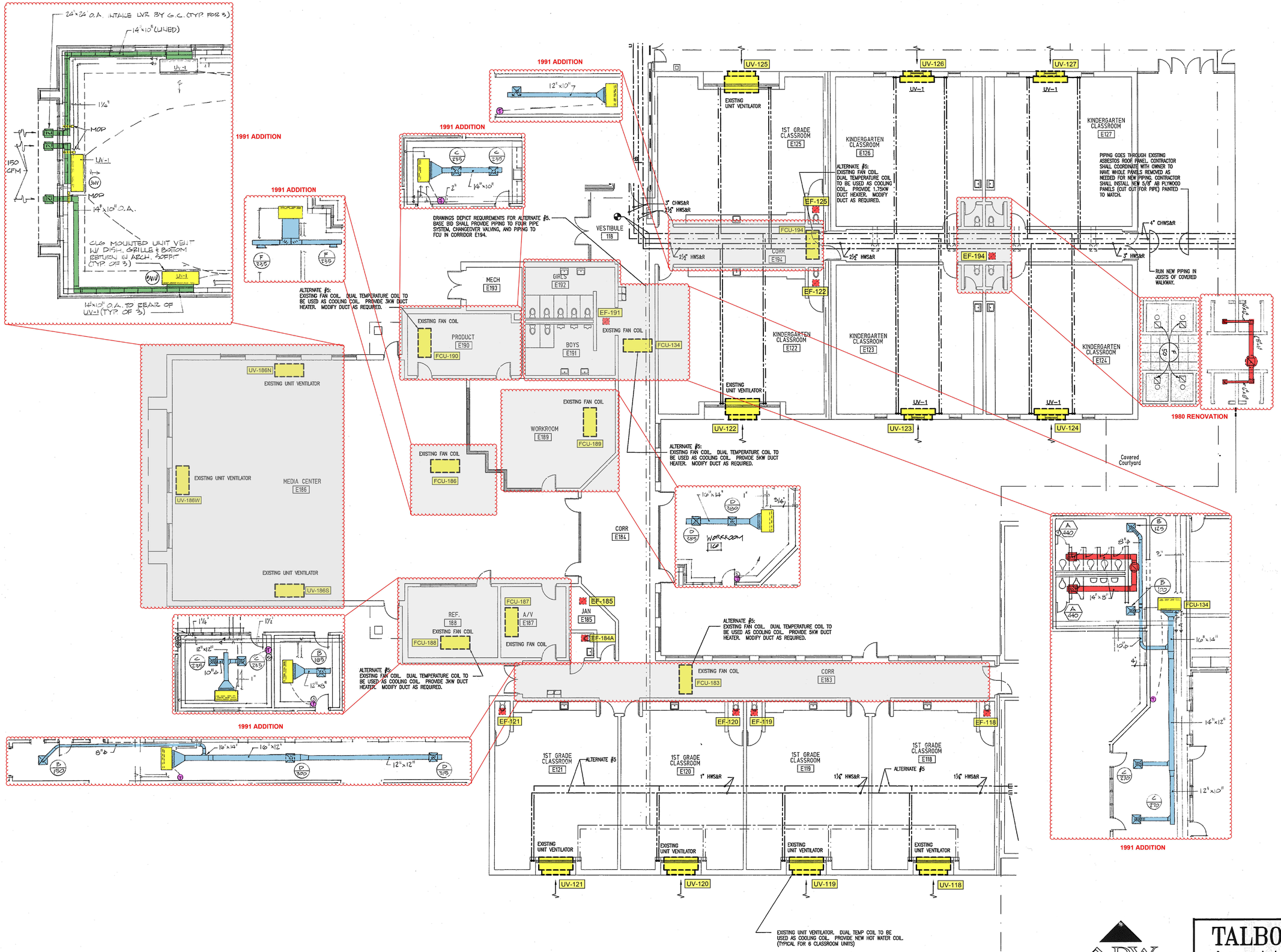
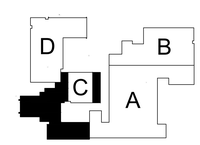
SHEET 3 OF 7



1 PARTIAL FLOOR PLAN - NEW WORK
M4 1/8" = 1'0"

1 MECHANICAL FLOOR PLAN AREA C
SCALE: 1/8"=1'-0"

NORTH



KEYPLAN

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APPROVED	CTM

MECHANICAL FLOOR PLAN AREA C

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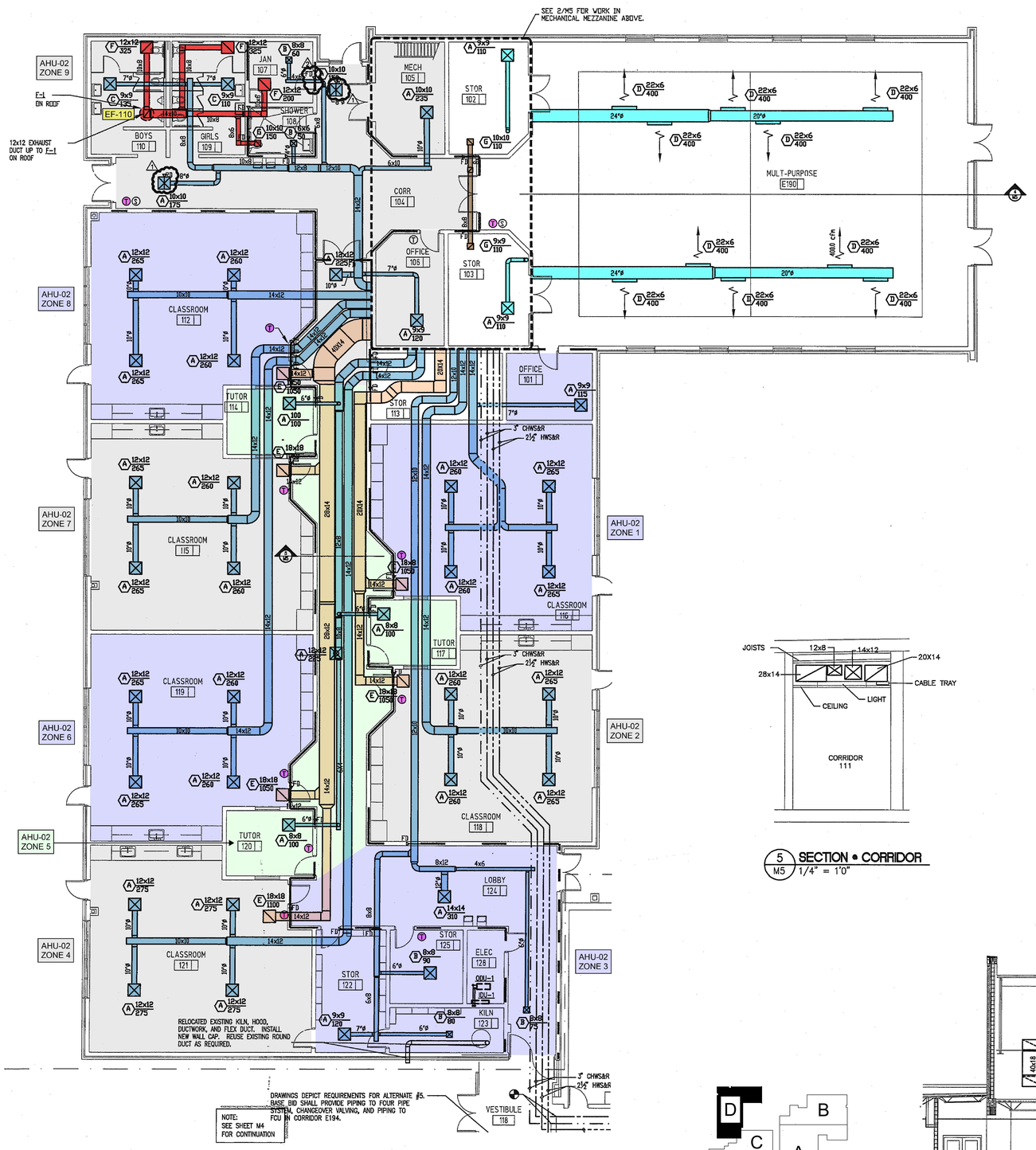
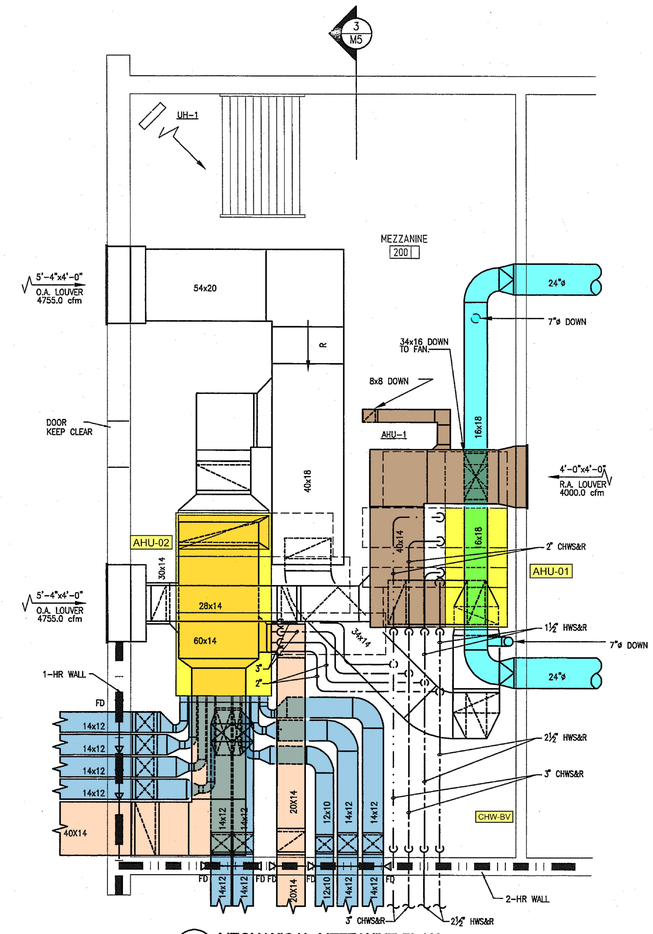
SHEET 4 OF 7

5/04/19997:148177m005.cal

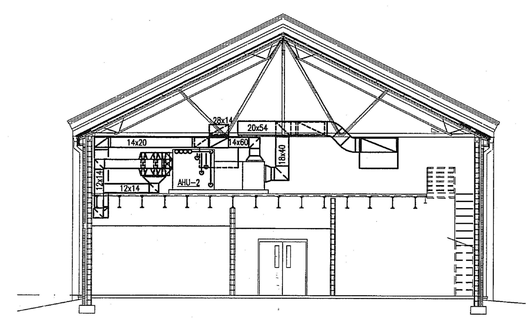


1 M5 NEW ADDITION PLAN
1/8" = 1'0"

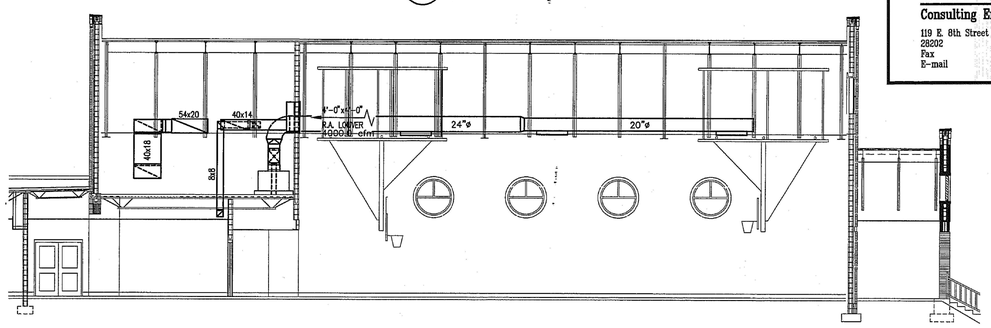


2 M5 MECHANICAL MEZZANINE PLAN
1/4" = 1'0"

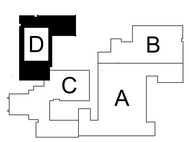
5 M5 SECTION • CORRIDOR
1/4" = 1'0"



3 M5 SECTION • MECHANICAL MEZZANINE
1/8" = 1'0"



4 M5 SECTION • MULTIPURPOSE ROOM
1/8" = 1'0"



KEYPLAN

1 MECHANICAL FLOOR PLAN AREA D
SCALE: 1/8"=1'-0"

NORTH

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MECHANICAL FLOOR PLAN AREA D

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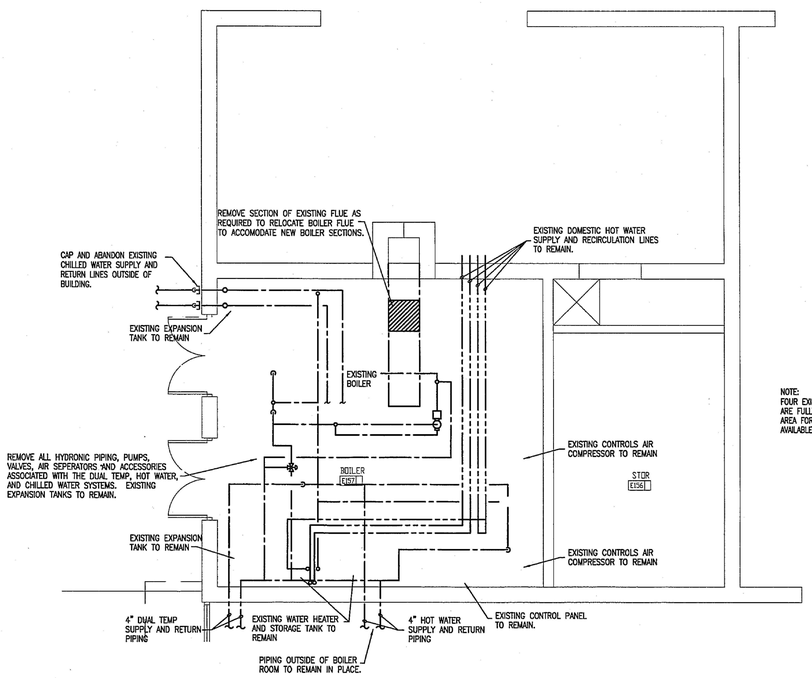
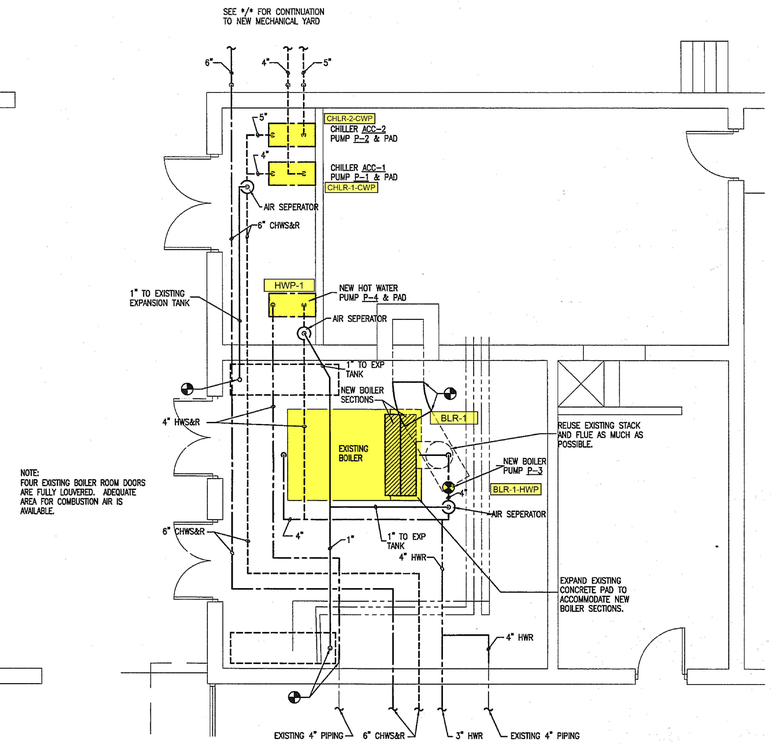
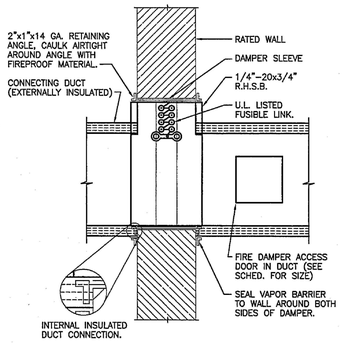


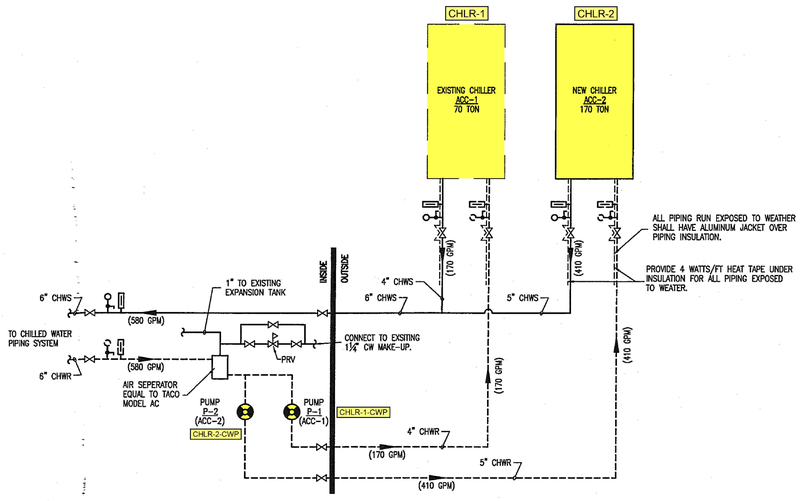
1 M6 ENLARGED BOILER ROOM PLAN - DEMOLITION
1/4"=1'-0"



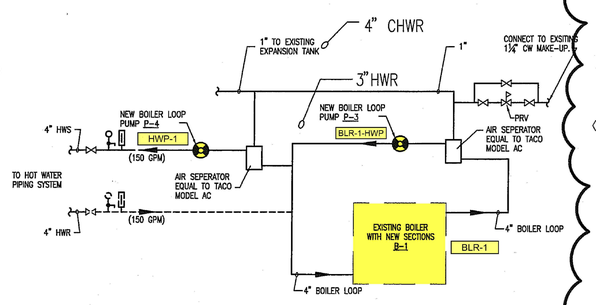
2 M6 ENLARGED BOILER ROOM PLAN
1/4"=1'-0"



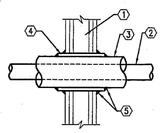
5 M6 FIRE DAMPER DETAIL
NO SCALE



3 M6 CHILLED WATER PIPING SCHEMATIC
NO SCALE

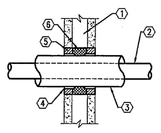


4 M6 HOT WATER PIPING SCHEMATIC
NO SCALE



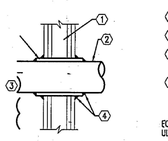
① WALL ASSEMBLY (1 HR. OR 2 HR.)
② PIPE (4" TYPE L COPPER OR SMALLER)
③ PIPE INSULATION
④ NOMINAL ¼" THK. INTUMESCENT MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL.
⑤ MIN. ¼" BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND THE EXPOSED EDGE OF WRAP.

FOR ADDITIONAL INFORMATION SEE UL SYSTEM NO. WL5001



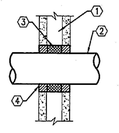
① MAX. 1HR. WALL OR FLOOR ASSEMBLY
② COPPER PIPE
③ PIPE INSULATION
④ NOMINAL ¼" THK. INTUMESCENT MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL. ENDS BUTTED AND HELD IN PLACE BY ALUMINUM TAPE, THEN THE ASSEMBLY IS WRAPPED WITH A SINGLE WIRE TO HOLD ASSEMBLY IN PLACE
⑤ NOMINAL ½" THK. MINERAL WOOL BATTS, MIN. DENSITY OF 4.0 PCF, CUT TO COMPLETELY FILL THE OPENING IN, AROUND AND BETWEEN PENETRATING ITEMS
⑥ FILL THE VOID BETWEEN THE LAYERS OF VOID WITH CAULK MIN. 1" THICK.

FOR ADDITIONAL INFORMATION SEE UL SYSTEM NO. CAJ5038



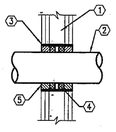
① WALL ASSEMBLY (1 HR. OR 2 HR.)
② PIPE (4" TYPE L COPPER OR SMALLER)
③ NOMINAL ¼" THK. INTUMESCENT MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL.
④ MIN. ¼" BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND THE EXPOSED EDGE OF WRAP.

FOR ADDITIONAL INFORMATION SEE UL SYSTEM NO. WL1002



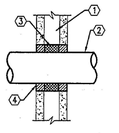
① MAX. 1HR. WALL OR FLOOR ASSEMBLY
② PIPE
③ NOMINAL 3" THK. MINERAL WOOL BATTS, MIN. DENSITY OF 4.4 PCF, FIRMLY PACKED AND CENTERED IN OPENING.
④ UL LISTED FILL MATERIAL TROWELED OR PUMPED INTO THE OPENING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MIN ½" THICK.

FOR ADDITIONAL INFORMATION SEE UL SYSTEM NO. CAJ1132



① WALL ASSEMBLY (2 HR.)
② PIPE (3" OR SMALLER)
③ STEEL SLEEVE OR WIRE MESH
④ PACKING MATERIAL
⑤ CAULK

FOR ADDITIONAL INFORMATION SEE UL SYSTEM NO. WL1014



① MAX. 2HR. WALL OR FLOOR ASSEMBLY
② PIPE
③ NOMINAL 3" THK. MINERAL WOOL BATTS, MIN. DENSITY OF 4.4 PCF, FIRMLY PACKED AND CENTERED IN OPENING.
④ UL LISTED FILL MATERIAL TROWELED OR PUMPED INTO THE OPENING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MIN ½" THICK.

FOR ADDITIONAL INFORMATION SEE UL SYSTEM NO. CAJ1017

6 M6 PIPE PENETRATION DETAILS
NO SCALE

ADW

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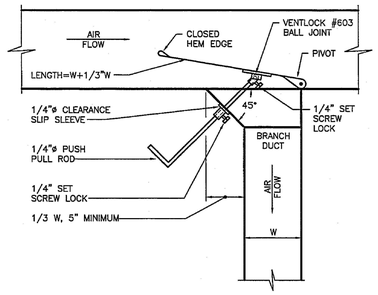
CENTRAL PLANT CONTROLS

RM-105

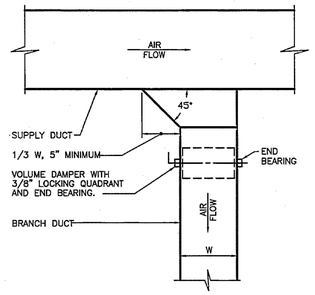
SHEET 6 OF 7



NOTES:

1. THIS DETAIL IS TO BE USED IF BRANCH DUCT SERVES MORE THAN ONE OUTLET.

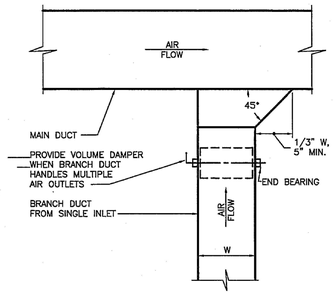
1 M8 RECTANGULAR SUPPLY DUCT W/ CLINCH COLLAR
NO SCALE



NOTES:

1. ROUND DUCT TAKEOFFS ARE SIMILAR EXCEPT HAVE SPIN-IN COLLAR WITH INTEGRAL SCOOP.

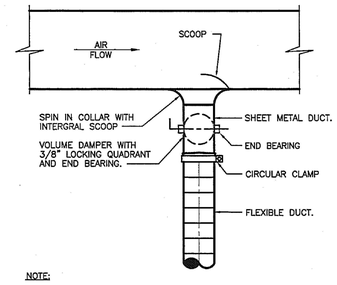
2 M8 RECTANGULAR SUPPLY DUCT TO SINGLE AIR OUTLET
NO SCALE



NOTE:

1. NOT PERMITTED AT END OF DUCT. SINGLE OR DOUBLE ELBOWS REQUIRED.

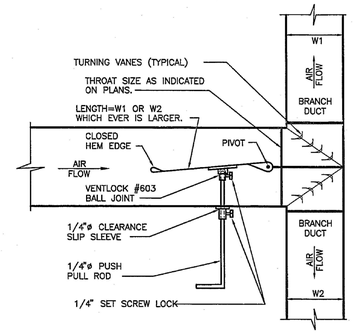
3 M8 RECTANGULAR RETURN /EXHAUST DUCT TAP
NO SCALE



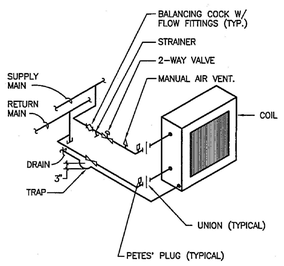
NOTE:

1. SEE FLOOR PLANS AND SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
2. TAP OFF TOP/DISE/BOTTOM OF DUCT AS REQUIRED

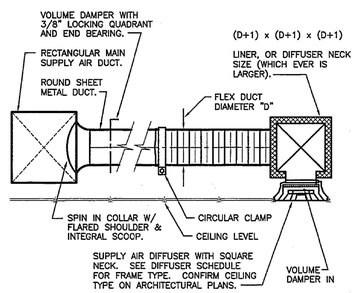
4 M8 ROUND SUPPLY TAP TO SINGLE AIR OUTLET
NO SCALE



5 M8 RECT. SUPPLY DUCT W/SPLITTER DAMPER
NO SCALE



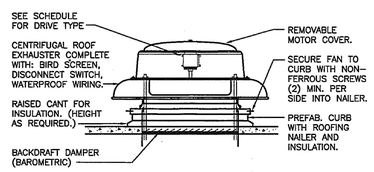
6 M8 TYPICAL COIL PIPING DETAIL
NO SCALE



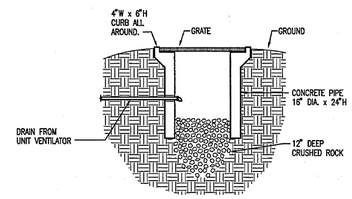
NOTE:

1. SEE FLOOR PLANS AND SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.

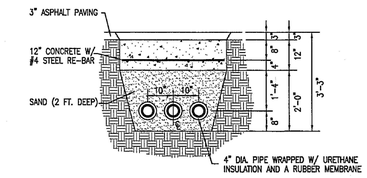
7 M8 SUPPLY AIR DIFFUSER DETAIL
NO SCALE



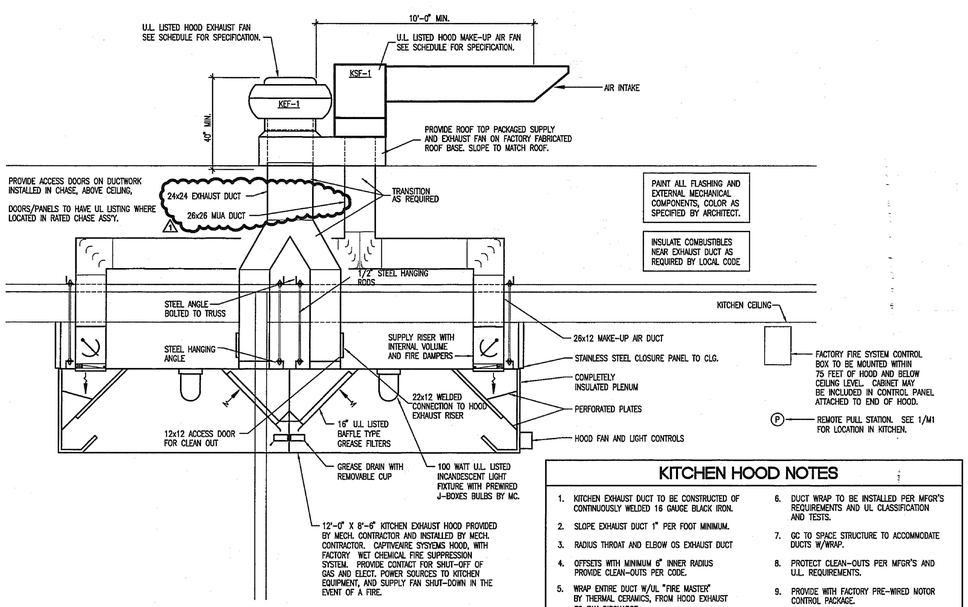
8 M8 CENTRIFUGAL ROOF EXHAUSTER
NO SCALE



10 M8 DRYWELL
NO SCALE



11 M8 BURIED PIPE DETAIL
NO SCALE



9 M8 WALL KITCHEN HOOD DETAIL
NOT TO SCALE

KITCHEN HOOD NOTES

1. KITCHEN EXHAUST DUCT TO BE CONSTRUCTED OF CONTINUOUSLY WELDED 16 GAUGE BLACK IRON.
2. SLOPE EXHAUST DUCT 1" PER FOOT MINIMUM.
3. RADIUS THROAT AND ELBOW OS EXHAUST DUCT
4. OFFSETS WITH MINIMUM 6" INNER RADIUS PROVIDE CLEAN-OUTS PER CODE.
5. WRAP ENTIRE DUCT W/UL "FIRE MASTEX" BY THERMAL CERAMICS, FROM HOOD EXHAUST TO FAN DISCHARGE.
6. DUCT WRAP TO BE INSTALLED PER MFGR'S REQUIREMENTS AND UL CLASSIFICATION AND TESTS.
7. GC TO SPACE STRUCTURE TO ACCOMMODATE DUCTS W/WRAP.
8. PROTECT CLEAN-OUTS PER MFGR'S AND U.L. REQUIREMENTS.
9. PROVIDE WITH FACTORY PRE-WIRED MOTOR CONTROL PACKAGE.

MECHANICAL LEGEND

DTS	DUEL TEMP. WATER SUPPLY
DTR	DUEL TEMP. WATER RETURN
	GATE VALVE (G.V.)
	BALANCING VALVE (B.V.) – DEZURICK
	BALL VALVE
	BUTTERFLY VALVE (B.F.V.)
M	MOTOR OP. BUTTERFLY VALVE
	GLOBE VALVE (GL.V.)
	SWING CHECK VALVE
	NON-SLAM CHECK VALVE
	METERING AND BALANCING FITTING (CIRCUIT SETTER)
	FLOW METERING FITTING
	"Y" PATTERN STRAINER W/ BLOWDOWN
	BASKET STRAINER
	UNION
DV	HOSE END DRAIN VALVE
	DIRECTION OF FLOW
	PITCH PIPE DOWN IN DIRECTION OF FLOW
	PIPE EXPANSION JOINT
	PIPE GUIDES
	PIPE ANCHOR
	ECCENTRIC REDUCER
OR	PIPE TURNING DOWN
OR	PIPE TURNING UP
OR	TEE WITH BRANCH OFF TOP OF MAIN
OR	TEE WITH BRANCH OFF BOTTOM OF MAIN
	CONNECT NEW TO EXISTING
E.T.R.	EXISITING TO REMAIN
	SPECIFIC NOTES
R	RISE IN ELEVATION OF HORIZONTAL DUCTWORK IN DIRECTION OF AIRFLOW
D	DROP IN ELEVATION OF HORIZONTAL DUCTWORK IN DIRECTION OF AIRFLOW
M	MOTOR OPERATED DAMPER (MOD)
	MANUAL VOLUME DAMPER (MVD)
S	DUCT MOUNTED SMOKE DETECTOR – PROVIDED AND WIRED BY E.C. AND INSTALLED BY M.C.
FD	FIRE DAMPER WITH ACCESS DOOR.
SD	SMOKE DAMPER (UL 555 S) WITH ACCESS DOOR.
FD/SD	COMBINATION FIRE AND SMOKE DAMPER (UL 555 S) WITH ACCESS DOOR.
AD	ACCESS DEVICE – SEE SPECIFICATIONS
	SUPPLY DUCT – TURNING UP
	SUPPLY DUCT – TURNING DOWN
	RETURN/EXHAUST/RELIEF/OA DUCT TURNING UP
	RETURN/EXHAUST/RELIEF/OA DUCT TURNING DOWN
$	SWITCH
H	HUMIDISTAT
T	THERMOSTAT
MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR
	DETAIL OR SECTION NUMBER
	SHEET ON WHICH DETAIL OR SECTION APPEARS
A 12x12 250	GRILLE, REGISTER OR DIFFUSER DESIGNATION
21x12	RECTANGULAR DUCT
12"ø	ROUND DUCT

HVAC GENERAL NOTES

1. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
2. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 4'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF U.L. 181 FOR CLASS 1 FLEXIBLE AIR DUCTS.
3. ALL AIR HANDLING UNITS SHALL BE INSTALLED AS SHOWN & PER MFG. REQUIREMENTS. NEW FILTERS FOR EACH AIR HANDLING UNIT.
4. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS & REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
5. ALL PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER.
6. ALL DUCT & PIPE INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, ROOF AND PARTITIONS.
7. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
8. LOCATE ALL T'STATS & SWITCHES 4'-0" ABOVE FINISHED FLOOR (PER ADA). ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT.
9. MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QTY. INDICATED ON PLANS AND PROVIDE OWNERS REPRESENTATIVE WITH COMPLETE BALANCE REPORT.
10. ALL SQUARE ELBOWS SHALL HAVE TURNING VANES.
11. PROVIDE A MANUAL VOLUME DAMPER AT ALL BRANCH TAKE-OFFS.
12. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS.
13. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
14. LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED FOR A 2" STATIC PRESSURE RATING WITH A CLASS "C" SEAL.
15. CONTRACTOR SHALL PROVIDE SEISMIC SUPPORTS AS REQUIRED BY NCSBC, VOLUME I, SECTION 1607.
16. ROOF CURBS SHALL HAVE A BASE THAT FITS SLOPE OF ROOF AS REQUIRED. TOP OF CURB SHALL BE LEVEL. SEE STRUCTURAL PLANS FOR SLOPE INFORMATION.
17. EACH AIR DISTRIBUTION SYSTEM SHALL BE EQUIPPED WITH A MANUAL CONTROL TO STOP SUPPLY AND RETURN FANS IN CASE OF AN EMERGENCY. THE CONTROL DEVICE SHALL BE MOUNTED IN A READILY ACCESSIBLE LOCATION AND CLEARLY IDENTIFIED.
18. PROTECT ALL DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS/ FLOORS PER CODE. PROTECTION SYSTEM SHALL BE UL LISTED.
19. M.C. SHALL COORDINATE ALL MECHANICAL EQUIPMENT CONNECTIONS & REQM'TS. W/EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN & INSTALLATION.
20. EXTEND COND. DRAIN LINES TO FLOOR DRAIN/DRYWELL OR AS INDICATED ON PLANS. ROUTE SO AS TO AVOID INTERFERENCE WITH PASSAGEWAYS, EQUIP. & SERVICE AREAS, ETC. DRAINS FROM AHU'S SHALL BE TRAPPED.
21. MAINTAIN MIN. 10' BETWEEN OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGE, PLUMBING VENTS, GAS FLUES, ETC.
22. ALL EQUIPMENT SHALL BE INSTALLED WITH CODE & MFG. REQUIRED SERVICE/ACCESS SPACE. PROVIDE ACCESS PANELS WHERE REQ'D.
23. SPACE ABOVE CEILING IS EXTREMELY TIGHT. COORD. ALL WORK IN THE FIELD PRIOR TO FABRICATION.
24. RUN DUCT UP WITHIN STRUCTURE/THRU JOIST WEBS WHERE POSSIBLE & WHERE REQUIRED TO MAINTAIN CEILING HEIGHTS. PROVIDE OFFSETS IN DUCT WHERE REQ'D. (KEEP NUMBER TO MINIMUM), MAKE BRANCH TAPS OFF TOP, SIDE, ETC., AS REQ'D.
25. WHERE WALLS EXTEND TO THE FLOOR/ROOF STRUCTURE ABOVE AND/OR CONTAIN SOUND ATTENUATION MATERIALS, PROVIDE RETURN AIR DUCT/ SOUND TRAP FOR FULL RETURN AIR CAPABILITY FROM ALL SPACES. FIELD VERIFY ALL LOCATIONS.
26. PROVIDE CONC. HOUSEKEEPING PADS AT ALL FLOOR MOUNTED EQUIP. REFER TO CONCRETE SPECIFICATION SECTION FOR CONC. WORK. COORD. ALL LOCATIONS W/ARCH. PLANS, GC, ETC.

KITCHEN FAN SCHEDULE

UNIT DESIG.	SERVICE	AREA SERVED	MANUFACTURER & MODEL #	FAN TYPE & ARRANGEMENT	CFM	S.P.	DRIVE TYPE	ELECTRICAL DATA HP	VOLT/PH	WATTS	CONTROL SCHEME	NOTES
KEF-1	HOOD EXHAUST	KITCHEN	CAPTIVEAIRE CA-248	CENTRIFUGAL UPBLAST	6000	0.75"	BELT	2	208V/3ø	–	ON-OFF	1 2 3 4 5
KSF-1	MAKE-UP	KITCHEN	CAPTIVEAIRE RTP-24	FILTERED SUPPLY	4800	0.50"	BELT	1.5	208V/3ø	–	ON-OFF	1 2 3 5

NOTES:

1. INTERLOCK WITH HOOD CONTROLS
2. PROVIDE BACKDRAFT DAMPER
3. PROVIDE WITH LOCAL DISCONNECT SWITCH
4. UL LISTED FOR GREASE REMOVAL
5. PROVIDE WITH FLAT ROOF CURB

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ISSUED FOR CONSTRUCTION

CHARLOTTE-MECKLENBURG SCHOOLS

RAMA ROAD ELEMENTARY RESOURCE DRAWINGS FROM EXISTING CONDITIONS

CHARLOTTE - MECKLENBERG SCHOOLS
1035 RAMA RD.
CHARLOTTE, NC 28211

REVISIONS

NO.	DESCRIPTION	DATE
	ISSUED FOR CONSTRUCTION	01/06/23

SHEET INFORMATION

DATE	01/06/2023
JOB NUMBER	2202-01-003
DRAWN	ALG
APPROVED	CTM

MECHANICAL DETAILS

RM-106

SHEET 7 OF 7