LEGEND

AHU-1 — EQUIPMENT TAG

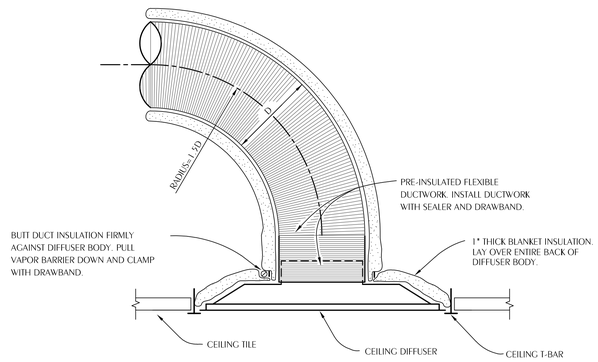
1 / M3 — DETAIL TAG ("1" INDICATES IDENTIFICATION NUMBER; "M3" INDICATES THE SHEET NUMBER DRAWN ON)

1 — SHEET NOTE

CD-1 / 100 — AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM

(2)CD-1 / 100 — AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES

TYP	TYPICAL
TEMP	TEMPERATURE
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
OA	OUTDOOR AIR
TA	TRANSFER AIR
SG	SUPPLY GRILLE
CD	CEILING DIFFUSER
RG	RETURN GRILLE
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
AFF	ABOVE FINISHED FLOOR
RR	RETURN REGISTER-GRILLE WITH OPPOSED BLADE BALANCING DAMPER
XFR	TRANSFER AIR
ESP	EXTERNAL STATIC PRESSURE
TAB	TESTING, ADJUSTING AND BALANCING
NOM	NOMINAL



NOTES:
NEW FLEX DUCT SHALL BE NO LONGER THAN 5'-0".

PROVIDE 24x24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.

PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

1 / M0.01 TYPICAL CEILING DIFFUSER DETAILS
SCALE: NONE

GENERAL NOTES

1. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
2. FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
3. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
4. ALL WORK SHALL COMPLY WITH EIGHTH EDITION OF FLORIDA BUILDING CODE (2023).
5. THIS PROJECT SHALL INCLUDE COMMISSIONING OF THE HVAC AND RELATED ELECTRICAL SYSTEMS. THE SERVICES OF THE COMMISSIONING AUTHORITY ARE PROVIDED UNDER SEPARATE CONTRACT. UNDER THIS CONTRACT, THE PRIME CONTRACTOR, SUBCONTRACTORS, AND EQUIPMENT MANUFACTURERS SHALL PROVIDE LABOR AND MATERIAL AS REQUIRED TO ASSIST AND PARTICIPATE IN THE COMMISSIONING PROCESS FOR THE SCOPE OF WORK AS DESCRIBED IN SECTION 230800 OF THE PROJECT SPECIFICATIONS.
6. THIS PROJECT SHALL INCLUDE TEST AND BALANCE OF THE HVAC SYSTEMS. THE SERVICES OF THE TEST AND BALANCE AUTHORITY ARE PROVIDED UNDER SEPARATE CONTRACT. UNDER THIS CONTRACT, THE PRIME CONTRACTOR, SUBCONTRACTORS, AND EQUIPMENT MANUFACTURERS SHALL PROVIDE LABOR AND MATERIAL AS REQUIRED TO ASSIST AND PARTICIPATE IN THE TAB PROCESS FOR THE SCOPE OF WORK AS DESCRIBED IN SECTION 230593 OF THE PROJECT SPECIFICATIONS.

DUCTWORK NOTES

1. ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M ACOUSTICAL FLEX OR ENGINEER APPROVED EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
2. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
3. ALL SUPPLY AIR DUCTWORK FROM AHU'S (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR; SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" FLEXIBLE INSULATION CONFORMING TO ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK) UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
4. ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A. EXTERNALLY INSULATED WITH 2" FLEXIBLE INSULATION CONFORMING TO ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK) UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
5. ALL OUTSIDE AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A. EXTERNALLY INSULATED WITH 2" FLEXIBLE INSULATION CONFORMING TO ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK) UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
6. STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A.
7. WHEN ROUTING DUCTWORK OVER LIGHTS, PROVIDE A MINIMUM 6" CLEARANCE BETWEEN DUCT AND LIGHTS.

AIR DEVICE REPLACEMENT NOTES

WHERE AIR DEVICES ARE TO BE REPLACED, THE INTENT IS TO PROVIDE AIR DEVICES WITH THE SAME DUCT CONNECTION SIZES. FIELD VERIFY EXISTING CONNECTIONS. PROVIDE DUCT TRANSITIONS AS REQUIRED WHERE SAME CONNECTIONS CAN NOT BE PROVIDED. EXISTING CEILING DIFFUSERS ARE GENERALLY CONNECTED WITH FLEX DUCT WHICH MAY BE REUSED. AIR DEVICES OTHER THAN CEILING DIFFUSERS ARE GENERALLY HARD DUCTED.

AIR DEVICE SCHEDULE

MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 / CFM	30-120	24x24	6Ø	OMNI
CD-2 / CFM	125-285	24x24	8Ø	OMNI
CD-3 / CFM	290-430	24x24	10Ø	OMNI
CD-4 / CFM	750	24x24	14Ø	OMNI
RG,EG,SG,TG,RR,ER				
xx-1 / CFM	50	6x6	6x6	350FL
xx-2 / CFM	230	8x8	8x8	350FL
xx-3 / CFM	300	10x10	10x10	350FL
xx-4 / CFM	500	12x12	12x12	350FL
xx-5 / CFM	730	14x14	14x14	350FL
xx-6 / CFM	950	16x16	16x16	350FL
xx-7 / CFM	1200	18x18	18x18	350FL
xx-8 / CFM	1700	22x22	22x22	350FL
xx-9 / CFM	1600	24X24	24x24	33RL
xx-10 / CFM	3500	48x30	48x30	350ZFL
xx-11 / CFM	375	12x8	12x8	272RS
xx-12 / CFM	540	18x8	18x8	272RS
xx-13 / CFM	2400	24x24	24x24	50F

NOTES:
1. MAX NC=20
2. PROVIDE 2x2 LAY IN PANEL FOR AIR DEVICES IN LAY IN CEILINGS.
3. PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
4. PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS.
5. FIELD VERIFY OPENINGS FOR SIDEWALL GRILLES AND DIFFUSERS.
6. EXISTING FLEX DUCT TO BE REUSED. PROVIDE TRANSITION AS REQUIRED FOR CONNECTION TO NEW DIFFUSERS.

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ISSUE | DATE
CONSTRUCTION DOCUMENTS | 05/18/2026

DRAWN BY: PWE
CHECKED BY: DAN

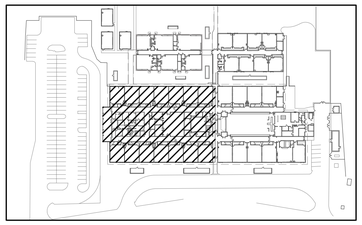
RENOVATION and MODERNIZATION of
NORTHSIDE ELEMENTARY SCHOOL

Panama City, FLORIDA

GMC Project #: APEN250033

HVAC LEGEND, SCHEDULE, NOTES & DETAIL

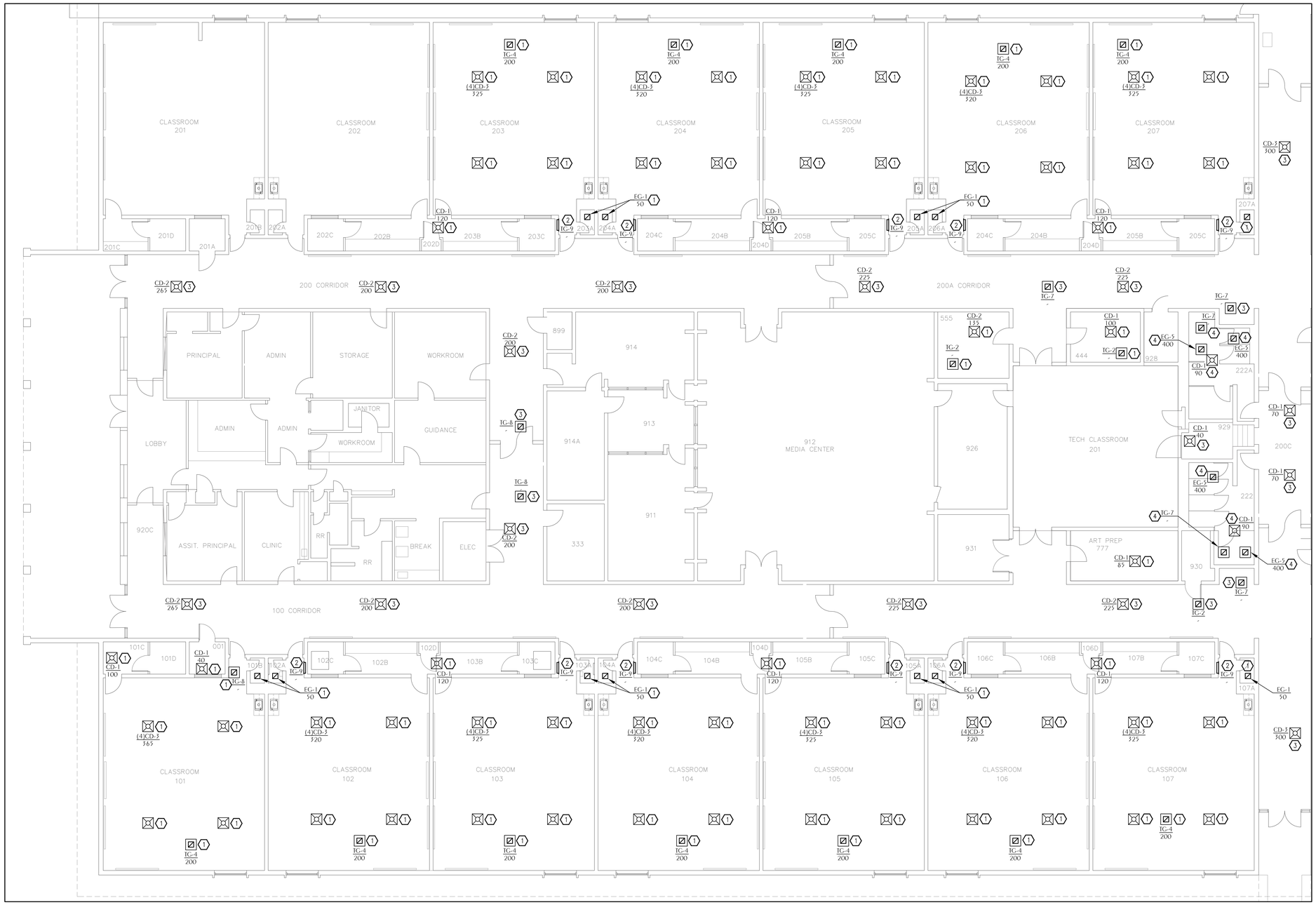
M0.01



KEY PLAN
SCALE: 1/32" = 1'-0"

SHEET NOTES

1. BASE BID: CLEAN EXISTING AIR DEVICE WITH EXISTING CEILING GRID IN PLACE. ADD ALTERNATE 1C: DEMO EXISTING AIR DEVICE AND PROVIDE NEW AIR DEVICE IN NEW CEILING GRID.
2. BASE BID: DEMO EXISTING SIDEWALL TRANSFER GRILLE AND PROVIDE NEW.
3. BASE BID: CEILING GRID TO BE REPLACED. TEMPORARILY SUSPEND AIR DEVICE FROM STRUCTURE AND CLEAN / REINSTALL IN NEW CEILING. ADD ALTERNATE 1C: DEMO EXISTING AIR DEVICE AND PROVIDE PROVIDE NEW AIR DEVICE IN NEW CEILING GRID.
4. BASE BID: DEMO EXISTING AIR DEVICE AND PROVIDE NEW AIR DEVICE IN NEW CEILING GRID.



HVAC DEMOLITION AND NEW WORK PARTIAL FLOOR PLAN - BUILDING 1
SCALE: 1/8" = 1'-0"

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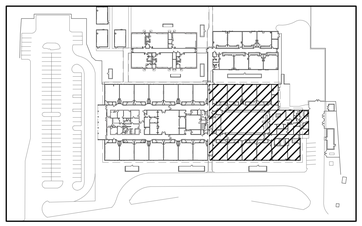
HVAC DEMOLITION AND NEW WORK
PARTIAL FLOOR PLAN
BUILDING 1

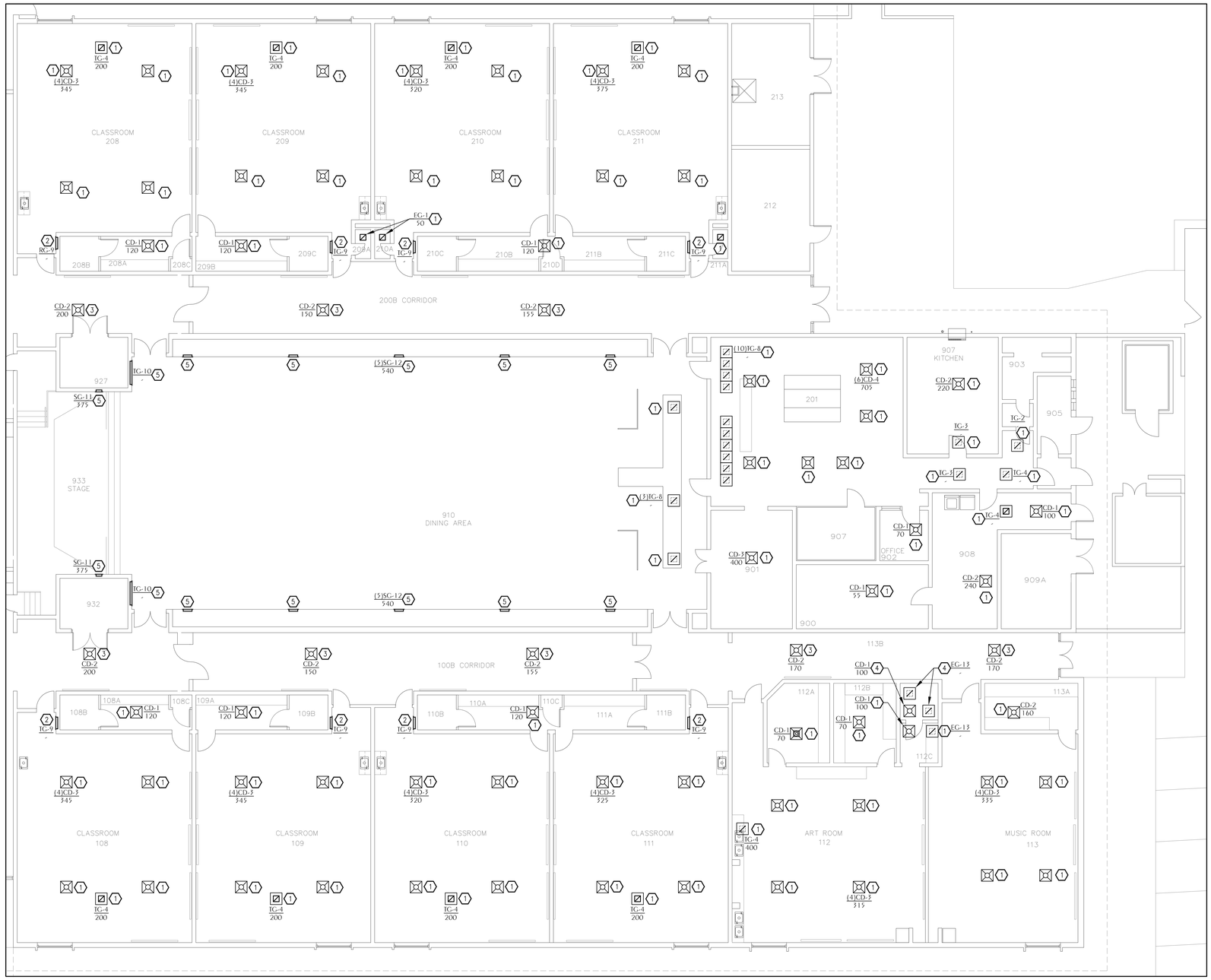
M1.01



KEY PLAN
SCALE: 1/32" = 1'-0"

SHEET NOTES

1. BASE BID: CLEAN EXISTING AIR DEVICE WITH EXISTING CEILING GRID IN PLACE. ADD ALTERNATE 1C: DEMO EXISTING AIR DEVICE AND PROVIDE NEW AIR DEVICE IN NEW CEILING GRID.
2. BASE BID: DEMO EXISTING SIDEWALL TRANSFER GRILLE AND PROVIDE NEW.
3. BASE BID: CEILING GRID TO BE REPLACED. TEMPORARILY SUSPEND AIR DEVICE FROM STRUCTURE AND CLEAN / REINSTALL IN NEW CEILING. ADD ALTERNATE 1C: DEMO EXISTING AIR DEVICE AND PROVIDE PROVIDE NEW AIR DEVICE IN NEW CEILING GRID.
4. BASE BID: CLEAN EXISTING AIR DEVICE WITH EXISTING HARD CEILING IN PLACE. ADD ALTERNATE 1C: DEMO EXISTING AIR DEVICE AND PROVIDE NEW AIR DEVICE IN EXISTING HARD CEILING.
5. BASE BID: CLEAN EXISTING SIDE WALL GRILLE. ALTERNATE BID: DEMO EXISTING SIDE WALL GRILLE AND REPLACE WITH NEW SIDE WALL GRILLE.



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

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HVAC DEMOLITION AND NEW WORK
PARTIAL FLOOR PLAN
BUILDING 1

M1.02