

**DEMOLITION PLAN** 

AD100 1/8" = 1'-0"

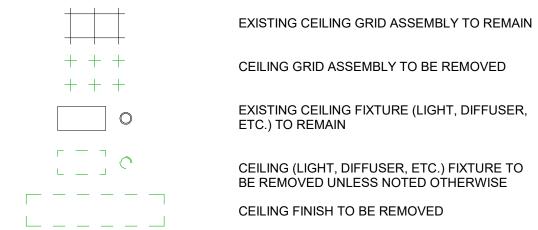
# DEMOLITION REVNOTE LEGEND

DEMOLITION KEYNOTE LEGEND		
KEYNOTE	KEYNOTE DESCRIPTION	
D1	REMOVE EXISTING DOOR AND DOOR FRAME AND SIDE LIGHT. CONTRACTOR TO SALVAGE ALL COMPONENTS FOR OWNERS REUSE. COORDINATE STORAGE/DELIVERY WITH OWNER.	
D2	REMOVE EXISTING GLASS BOARD. CONTRACTOR TO SALVAGE AND REINSTALL GLASS BOARD.	
D3	REMOVE EXISTING SIGNAGE AND SALVAGE FOR OWNER. COORDINATE STORAGE LOCATION OF REMOVED SIGNAGE.	
04	MODIFY EXISTING PARTITION AS REQUIRED FOR NEW OPENING AND FIRE CURTAIN. COORDINATE ROUGH OPENING AND BLOCKING REQUIREMENTS WITH FIRE CURTAIN MANUFACTURER. CONTRACTOR TO PROVIDE 1HR RATED BARRIER DURRING CONSTRUCTION.	
D5	REMOVE EXISTING VINYL WALLPAPER. PATCH AND REPAIR WLLS AS NECESSARY, TYP.	
D6	REMOVE EXISTING PARTITION WALL, PATCH AND REPAIR AS NECESSARY, TYP.	
D7	EXISTING FURNITURE TO BE REMOVED BY OWNER PRIOR TO CONSTRUCTION.COORDINATE WITH OWNER IF ANY DEMO FURNITURE REMAINS.	
D8	REMOVE EXISTING WALL MOUNTED TELEVISION. CONTRACTOR TO SALVAGE AND REUSE ALL COMPONENTS. SEE NEW WORK PLAN FOR NEW INSTALL LOCATION.	
D10	REMOVE EXISTING CEILING TILE AND GRID AS REQUIRED FOR NEW PARTITION LAYOUT, TYP.	
D11	REMOVE EXISTING GYP. BOARD CEILING AS REQUIRED FOR NEW PARTITION LAYOUT.	
D12	REMOVE EXISTING 2X2 LIGHT FIXTURE. REUSE WHERE POSSIBLE, TYP.	
D13	REMOVE EXISTING 2X4 LIGHT FIXTURE. REUSE WHERE POSSIBLE, TYP.	
D14	REMOVE EXISTING STRIP LIGHT. REUSE WHERE POSSIBLE.	
D16	REMOVE EXISTING RETURN AIR GRILLE. REUSE WHERE POSSIBLE, TYP.	
D17	REMOVE EXISTING EXHAUST AIR GRILLE. REUSE WHERE POSSIBLE, TYP.	
D18	EXISTING 2HR FIRE SEPARATION TO REMAIN.	
D19	EXISTING POWER AND DATA TO REMAIN.	
D20	EXISTING MOVABLE PARTITION WALL TO REMAIN	
D21	CONTRACTOR TO SALVAGE EXISTING WIRELESS ACCESS POINT (WAP) AND PROTECT DURING CONSTRUCITON. WAP TO BE RELOCATED AS PART OF NEW WORK AND LOCATION TO BE COORDINATED WITH OWNER. CONTRACTOR TO INSTALL.	
D00	EVICTING WAS TO BE PROTECTED EDGM BURDING SUBMIC	

EXISTING WAP TO BE PROTECTED FROM DUBRIS DURING

CONSTRUCTION.

## **DEMOLITION RCP LEGEND**

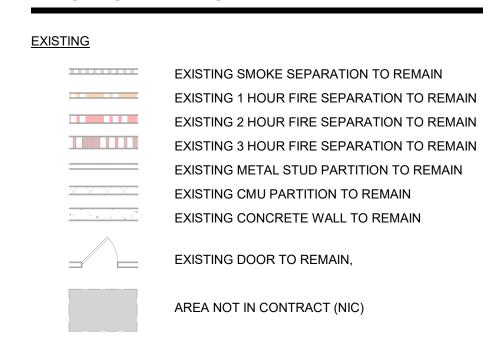


CEILING FINISH TO BE REMOVED

## **DEMOLITION PLAN LEGEND**

- 1. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.
- 2. COORDINATE SCOPE AND EXTENT OF DEMOLITION WORK WITH NEW WORK PLANS AND DETAILS.
- 3. ALL WALLS, DOORS, FRAMES, AND RELATED HARDWARE ASSEMBLIES DESIGNATED AS "TO BE REMOVED" (SHOWN AS DASHED LINES) SHALL BE COMPLETELY REMOVED AND DISPOSED OF AS DESIGNATED BY OWNER/TENANT. ALL EXISTING WALLS NOT DESIGNATED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE AND REMAIN "AS-IS".
- IN OCCUPIED BUILDINGS, ANY CONSTRUCTION BEYOND 48 HOURS MUST BE ISOLATED WITH HARD BARRIER WALL (1 HR. RATED), PER BUILDING CODE.1 HOUR FIRE RATED PLASTIC BARRIER MAY NOT BE USED. PROVIDE ANY/ALL DUST CONTROL AND INFECTION CONTROL MEASURES TO ISOLATE ALL WORK TO PROJECT AREA.
- 5. PHASED CONSTRUCTION MAY BE REQUIRED, FINAL NUMBER OF PHASES TBD BY OWNER/ ARCHITECT/ GC PRIOR TO CONSTRUCTION. CONTRACTOR PROVIDE ANY/ALL TEMP. CONSTRUCTION MEASURES AS REQUIRED BY LOCAL AHJ (EXIT SIGNS, EMERGENCY LIGHTING, CONSTRUCTION LIGHTING, EGRESS SIGNAGE, ETC.)
- 6. ALL EQUIPMENT, DOORS, FRAMES, RELATED HARDWARE, AND DESIGNATED ITEMS TO BE SALVAGED SHALL BE REMOVED, PROTECTED FROM DAMAGE, AND STORED FOR REUSE.
- 7. CLEAN AND REPAIR ALL EXISTING FLOOR FINISHES AS NECESSARY.
- 8. ALL DEMOLITION WORK SHALL BE PERFORMED IN A NEAT AND WORKMANSHIP MANNER. ALL SURFACES ADJACENT TO AND ABUTTING TO THOSE DESIGNATED "TO BE REMOVED" SHALL BE LEFT WITH A SMOOTH AND FLUSH APPEARANCE.
- 9. THE CONTRACTOR SHALL EXERCISE ALL REQUISITE CARE NECESSARY TO ENSURE THAT ALL EQUIPMENT, MATERIALS, FINISHES AND ASSEMBLIES WHICH ARE NOT BEING REMOVED ARE PROTECTED FROM DAMAGE DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION OPERATIONS.
- 10. REFER TO MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION.
- 11. GENERAL PRECAUTIONS SHALL BE TAKEN AS NECESSARY TO HOLD ALL DISRUPTION, DUST, DIRT, NOISE, AND DEBRIS TO A MINIMUM.
- 12. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH OWNER TO ENSURE THAT IMPACTS ON THE BALANCE OF THE BUILDING ARE HELD TO A MINIMUM.
- 13. PREPARE ALL SURFACES TO RECEIVE THE NEW WORK AND FINISHES OF THE CONTRACT.
- 14. THE CONTRACTOR SHALL DESIGN, PROVIDE, INSTALL AND MAINTAIN ANY AND ALL TEMPORARY BRACING AS REQUIRED TO ENSURE THE STABILITY OF THE BUILDING ASSEMBLY AND/OR ANY SYSTEMS AND/OR SUB-ASSEMBLIES AND/OR SYSTEMS APPURTENANT THERETO UNTIL SAID ASSEMBLY AND/OR SUB-ASSSEMBLIES ARE COMPLETE, SELF-SUPPORTING AND/OR STABLE.
- 15. CONTRACTOR TO HOLD A PRE DEMOLITION WALK-THRU WITH OWNER AND SUBCONTRACTORS
- 16. SALVAGE AND RETURN SIGNAGE TO OWNER
- 17. FIRE ALARM DEVICES EXISTING, TO BE REMOVED, OR RELOCATED (TYP.) IT IS A NATIONAL TIME SYSTEM

## **DEMOLITION PLAN LEGEND**



## <u>DEMO</u>

	DEMO SMOKE SEPARATION
====	DEMO 1 HOUR FIRE SEPARATION
====	DEMO 2 HOUR FIRE SEPARATION
	DEMO 3 HOUR FIRE SEPARATION
	DEMO METAL STUD PARTITION
	DEMO CMU PARTITION
	DEMO CONCRETE WALL
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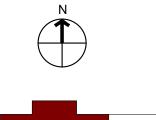
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Project:

MATTHAEI ACADEMIC RESOURCE CENTER RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202

Key Plan:



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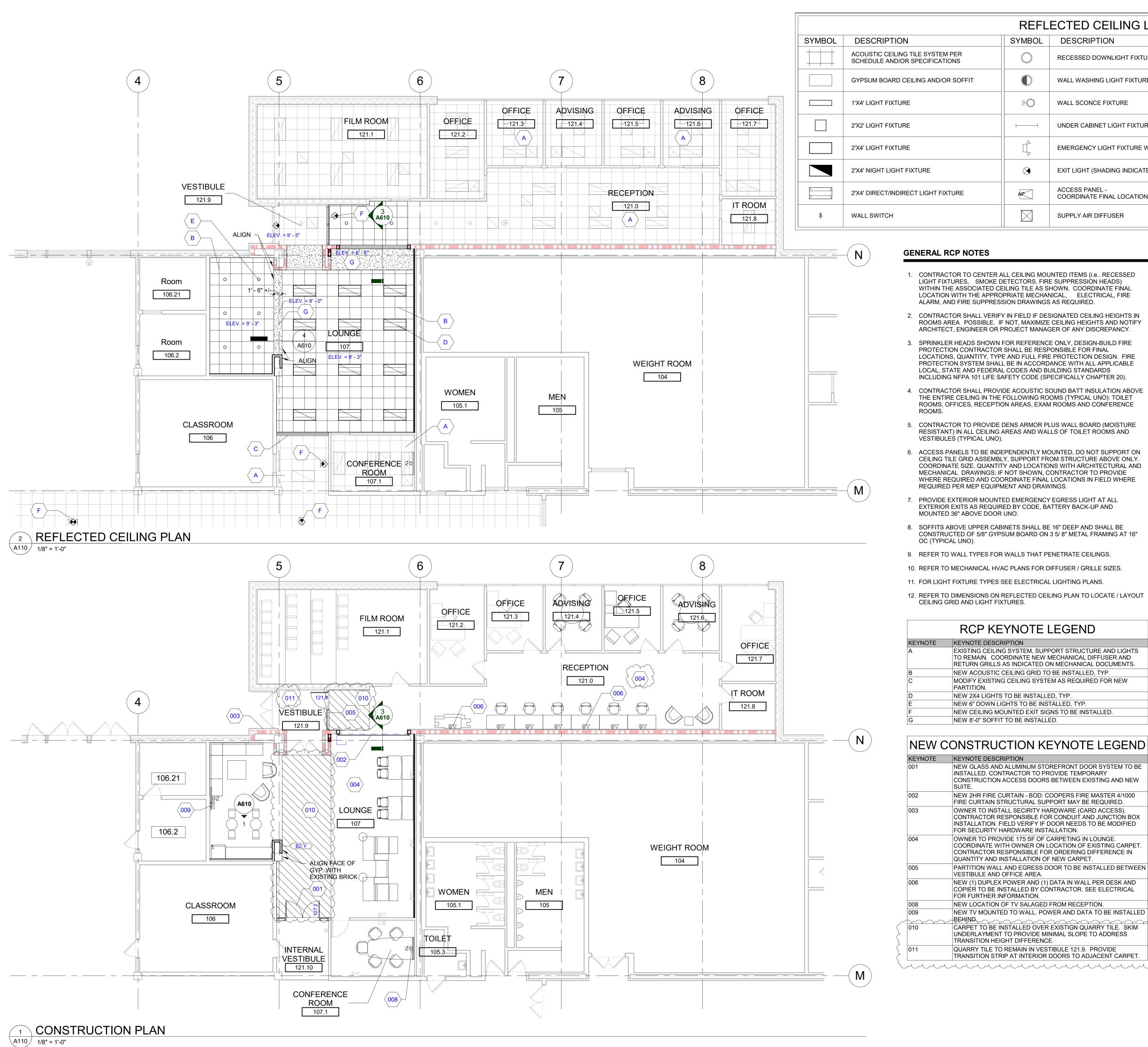
Drawn by: JML

Checked by: JAV, MJB, AJD

Sheet Title: ARCHITECTURAL DEMOLITION PLANS

Project No. 2022.038

Sheet No.



## **GENERAL RCP NOTES**

1. CONTRACTOR TO CENTER ALL CEILING MOUNTED ITEMS (i.e., RECESSED LIGHT FIXTURES, SMOKE DETECTORS, FIRE SUPPRESSION HEADS) WITHIN THE ASSOCIATED CEILING TILE AS SHOWN. COORDINATE FINAL LOCATION WITH THE APPROPRIATE MECHANICAL, ELECTRICAL, FIRE ALARM, AND FIRE SUPPRESSION DRAWINGS AS REQUIRED.

REFLECTED CEILING LEGEND

RECESSED DOWNLIGHT FIXTURE

WALL WASHING LIGHT FIXTURE

UNDER CABINET LIGHT FIXTURE

EMERGENCY LIGHT FIXTURE W/ BATTERY SUPPLY

EXIT LIGHT (SHADING INDICATES LIGHTED FACE)

COORDINATE FINAL LOCATION WITH MEP

WALL SCONCE FIXTURE

SUPPLY AIR DIFFUSER

SYMBOL DESCRIPTION

- 2. CONTRACTOR SHALL VERIFY IN FIELD IF DESIGNATED CEILING HEIGHTS IN ROOMS AREA POSSIBLE. IF NOT, MAXIMIZE CEILING HEIGHTS AND NOTIFY ARCHITECT, ENGINEER OR PROJECT MANAGER OF ANY DISCREPANCY.
- 3. SPRINKLER HEADS SHOWN FOR REFERENCE ONLY, DESIGN-BUILD FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL LOCATIONS, QUANTITY, TYPE AND FULL FIRE PROTECTION DESIGN. FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND BUILDING STANDARDS INCLUDING NFPA 101 LIFE SAFETY CODE (SPECIFICALLY CHAPTER 20).
- 4. CONTRACTOR SHALL PROVIDE ACOUSTIC SOUND BATT INSULATION ABOVE THE ENTIRE CEILING IN THE FOLLOWING ROOMS (TYPICAL UNO): TOILET ROOMS, OFFICES, RECEPTION AREAS, EXAM ROOMS AND CONFERENCE
- 5. CONTRACTOR TO PROVIDE DENS ARMOR PLUS WALL BOARD (MOISTURE RESISTANT) IN ALL CEILING AREAS AND WALLS OF TOILET ROOMS AND VESTIBULES (TYPICAL UNO).
- 6. ACCESS PANELS TO BE INDEPENDENTLY MOUNTED, DO NOT SUPPORT ON CEILING TILE GRID ASSEMBLY, SUPPORT FROM STRUCTURE ABOVE ONLY. COORDINATE SIZE, QUANTITY AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS; IF NOT SHOWN, CONTRACTOR TO PROVIDE WHERE REQUIRED AND COORDINATE FINAL LOCATIONS IN FIELD WHERE REQUIRED PER MEP EQUIPMENT AND DRAWINGS.
- PROVIDE EXTERIOR MOUNTED EMERGENCY EGRESS LIGHT AT ALL EXTERIOR EXITS AS REQUIRED BY CODE, BATTERY BACK-UP AND MOUNTED 36" ABOVE DOOR UNO.
- 8. SOFFITS ABOVE UPPER CABINETS SHALL BE 16" DEEP AND SHALL BE CONSTRUCTED OF 5/8" GYPSUM BOARD ON 3 5/8" METAL FRAMING AT 16" OC (TYPICAL UNO).
- 9. REFER TO WALL TYPES FOR WALLS THAT PENETRATE CEILINGS.
- 10. REFER TO MECHANICAL HVAC PLANS FOR DIFFUSER / GRILLE SIZES.
- 11. FOR LIGHT FIXTURE TYPES SEE ELECTRICAL LIGHTING PLANS.
- 12. REFER TO DIMENSIONS ON REFLECTED CEILING PLAN TO LOCATE / LAYOUT CEILING GRID AND LIGHT FIXTURES.

# RCP KEYNOTE LEGEND

EYNOTE DESCRIPTION
XISTING CEILING SYSTEM, SUPPORT STRUCTURE AND LIGHTS O REMAIN. COORDINATE NEW MECHANICAL DIFFUSER AND ETURN GRILLS AS INDICATED ON MECHANICAL DOCUMENTS.
EW ACOUSTIC CEILING GRID TO BE INSTALLED, TYP.
ODIFY EXISTING CEILING SYSTEM AS REQUIRED FOR NEW ARTITION.
EW 2X4 LIGHTS TO BE INSTALLED, TYP.
EW 6" DOWN LIGHTS TO BE INSTALLED, TYP.
EW CEILING MOUNTED EXIT SIGNS TO BE INSTALLED.
EW 8'-0" SOFFIT TO BE INSTALLED.
EVV 0 0 001111 10 BE INOTALLEB.

NEW CONSTRUCTION KEYNOTE LEGEND		
KEYNOTE	KEYNOTE DESCRIPTION	
001	NEW GLASS AND ALUMINUM STOREFRONT DOOR SYSTEM TO BE INSTALLED. CONTRACTOR TO PROVIDE TEMPORARY CONSTRUCTION ACCESS DOORS BETWEEN EXISTING AND NEW SUITE.	
002	NEW 2HR FIRE CURTAIN - BOD: COOPERS FIRE MASTER 4/1000 FIRE CURTAIN STRUCTURAL SUPPORT MAY BE REQUIRED.	
003	OWNER TO INSTALL SECIRITY HARDWARE (CARD ACCESS). CONTRACTOR RESPONSIBLE FOR CONDUIT AND JUNCTION BOX INSTALLATION. FIELD VERIFY IF DOOR NEEDS TO BE MODIFIED FOR SECURITY HARDWARE INSTALLATION.	
004	OWNER TO PROVIDE 175 SF OF CARPETING IN LOUNGE. COORDINATE WITH OWNER ON LOCATION OF EXISTING CARPET. CONTRACTOR RESPONSIBLE FOR ORDERING DIFFERENCE IN QUANTITY AND INSTALLATION OF NEW CARPET.	
005	PARTITION WALL AND EGRESS DOOR TO BE INSTALLED BETWEEN VESTIBULE AND OFFICE AREA.	
006	NEW (1) DUPLEX POWER AND (1) DATA IN WALL PER DESK AND COPIER TO BE INSTALLED BY CONTRACTOR. SEE ELECTRICAL FOR FURTHER INFORMATION.	
800	NEW LOCATION OF TV SALAGED FROM RECEPTION.	
009	NEW TV MOUNTED TO WALL. POWER AND DATA TO BE INSTALLED	
010	CARPET TO BE INSTALLED OVER EXISTIGN QUARRY TILE. SKIM UNDERLAYMENT TO PROVIDE MINIMAL SLOPE TO ADDRESS TRANSITION HEIGHT DIFFERENCE.	
011	QUARRY TILE TO REMAIN IN VESTIBULE 121.9. PROVIDE TRANSITION STRIP AT INTERIOR DOORS TO ADJACENT CARPET.	

### **GENERAL PLAN NOTES**

◆ HEIGHT

1. THIS DRAWING IS DIAGRAMMATIC AND SHOULD BE USED TO DETERMINE THE DESIGN INTENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SET OF WORK AS INDICATED AND SHALL FIELD VERIFY ALL WORK, COORDINATE ALL DRAWINGS / NEW WORK AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS BEFORE PROCEEDING, FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR TAKING FULL RESPONSIBILITY AND LIABILITY FOR SAID DISCREPANCIES.

SYMBOL DESCRIPTION

RETURN AIR GRILL

EXHAUST AIR GRILL

SMOKE DETECTOR

SPEAKER

FIRE SUPPRESSION HEAD

ELEVATION ABOVE FINISHED FLOOR

EXISTING FIXTURE TO BE RELOCATED

EXISTING FIXTURE TO REMAIN

- 2. ALL DIMENSIONS ARE SHOWN FROM FINISH FACE TO FINISH FACE OF PARTITION UNLESS OTHERWISE NOTED.
- 3. WALL THICKNESS' ARE NOMINAL NOT ACTUAL DIMENSIONS. SEE WALL SCHEDULE FOR ACTUAL DIMENSIONS.
- 4. ALL WOOD, INCLUDING BLOCKING, USED ON THE PROJECT SHALL BE FIRE RETARDANT TREATED.
- 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, COUNTY CODE REGULATIONS, O.S.H.A., AND THE AMERICAN WITH DISABILITIES ACT (ADA). REFER TO THE CODE PLAN FOR MORE INFORMATION.
- 6. PROVIDE POSITIVE SLOPE TO ALL FLOOR DRAINS WHILE KEEPING FLOOR LEVEL AT WALL BASE CONDITION.
- 7. PROVIDE TRANSITION STRIPS AT EACH CHANGE IN FLOOR FINISH MATERIALS.
- 8. PAINT, PATCH AND REPAIR THE FOLLOWING TO MATCH EXISTING MATERIALS: FLOOR, WALL, AND CEILING SURFACES AS REQUIRED ADJACENT TO AREAS BEING DEMOLISHED. REFER TO DEMOLITION DRAWINGS FOR MORE INFORMATION.
- 9. REINFORCE WALL AND PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL CABINETS AND COUNTERTOPS.
- 10. THE CONTRACTOR SHALL PROVIDE AND INSTALL WALL REINFORCING FOR INSTALLATION OF ACCESSORIES, COAT RACKS, CHART RACKS, CASEWORK, AND OTHER WALL MOUNTED ITEMS.
- 11. CLEAN AND REPAIR ALL EXISTING FLOOR FINISHES AS NECESSARY.
- 12. ALL EXPOSED PIPES, DUCTS, AND CONDUIT TO BE PAINTED TO MATCH EXISTING.
- 13. PROVIDE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AT 30'-0" O.C. MAXIMUM AND AS INDICATED IN THE CONTRACT DOCUMENTS.
- 14. COORDINATE WITH OWNER'S EQUIPMENT SUPPLIER FOR INSTALLATION REQUIREMENTS / LOCATIONS OF FLOOR / WALL / CEILING MOUNTED ITEMS; IE. CAMERAS, TV'S, SPEAKERS, SENSORS, SECURITY WIRING, VAULTS,
- 15. CONTRACTOR SHALL CONDUCT A ROUGH ELECTRICAL INSPECTION WITH OWNER, PRIOR TO ENCLOSING WALLS, FOR THE PURPOSE OF CONFIRMING ALL J-BOX LOCATIONS FOR POWER, DATA, VOICE, SWITCH, THERMOSTAT,
- 16. CONTRACTOR TO FILL ANY AND ALL EQUIPMENT PENETRATIONS OR DEPRESSIONS INTO OR THROUGH THE EXISTING SLAB THAT WILL NOT BE UTILIZED TO FEED NEW EQUIPMENT (I.E. ABANDONED FLOOR CORES, IMPRESSION FROM PREVIOUS EQUIPMENT FLOOR PLATE REMOVAL). PENETRATIONS SHALL BE FILLED WITH NON- SHRINK GROUT. THE SIDES OF ANY EXISTING OPENINGS SHALL BE MODIFIED/TAPERED SO THAT THEY ARE WIDER AT THE TOP THAN AT THE BOTTOM. FOR LARGE OPENINGS, PROVIDE ONE (1) #5 BAR 2" UP FROM BOTTOM OF HOLE.
- 17. A TACTILE SIGN STATING 'EXIT' AND COMPLYING WITH ICC-A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN 'AREA OF REFUGE', AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXIT PASSAGEWAY, AND THE EXIT DISCHARGE.
- 18. PROVIDE PERMANENT MIN 3-INCH HIGH CONTRASTING COLOR MARKING AND IDENTIFICATION AT ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS WITHIN 15 FEET AT THE END OF EACH WALL, AND NOT EXCEEDING 30 FEET MAXIMUM HORIZONTAL INTERVALS, MINIMUM 2 LOCATIONS EACH WALL. TYPICAL FOR ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING, OR ATTIC SPACES PER CODE (MBC
- 19. CONTRACTOR TO COORDINATE WITH FURNITURE VENDOR ON FURNITURE SPECIFICATIONS, LAYOUT, AND INSTALL



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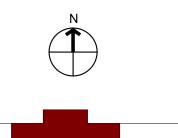
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MATTHAEI ACADEMIC RESOURCE CENTER RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202

Key Plan:



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07.07.22 **BULLETIN #1** 08.24.22

Drawn by:

ARR

Checked by

Sheet Title: FIRST LEVEL NEW CONSTRUCITON AND RCP

Project No. 2022.038

Sheet No.

DEMOLITION POWER PLAN



## **KEY NOTES:**

REMOVE ALL RECEPTACLES SHOWN HATCHED AND ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.

RELOCATE LIGHT FIXTURES TO LOCATIONS SHOWN ON SHEET E100. REMOVE ASSOCIATED SWITCHES AND PREPARE CIRCUIT FOR EXTENSION TO NEW LIGHT FIXTURE LOCATION.

CONTRACTOR TO SALVAGE EXISTING WAP AND PROTECT IT DURING CONSTRUCTION. WAP TO BE RELOCATED AS PART OF NEW WORK. CONTRACTOR TO INSTALL.

4 EXISTING WAP'S TO BE PROTECTED FROM DEBRIS DURING CONSTRUCTION.



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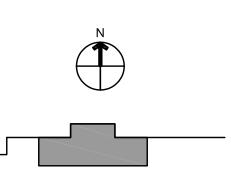


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DEMOLITION PLANS

Project No. :

Sheet No.:

ED100

1 POWER PLAN
1/8" = 1'-0"



## **KEY NOTES:**

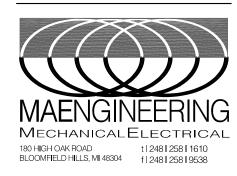
- PROVIDE SEPARATE 20A-120V-1P CIRCUIT FROM NEAREST AVAILABLE PANEL. VERIFY PANEL
- 2 CONNECT TO BUILDING FIRE ALARM SYSTEM PER BUILDING FIRE ALARM SYSTEM VENDOR'S
- (3) FIRE CURTAIN, PROVIDE SEPARATE (1)20A-120V-1P LIFE SAFETY CIRCUIT FROM NEAREST AVAILABLE SOURCE. VERIFY SOURCE LOCATION IN FIELD.
- (4) CONNECT TO EXISTING LIGHTING CIRCUIT. PROVIDE BUILDING STANDARD AUTOMATIC LIGHTING \_\_\_\_\_\_
- $\overline{5}$  REWORK SWITCHING AS INDICATED.
- 6 PROVIDE EXIT LIGHT FIXTURE TO MATCH EXISTING-VERIFY INFIELD. CONNECT TO NEAREST AVAILABLE LIFE SAFETY LIGHTING CIRCUIT.
- 7 RECESSED 6" DIAMETER LED DOWNLIGHT WITH LENS, 2000 LUMENS, 3500°K, 80CRI, 0-10V DIMMING, MULTI-VOLT DRIVER. GOTHAM EVO-6 OR APPROVED EQUAL.
- $\langle 8 \rangle$  modify fire alarm devices location to accommodate New Plan.
- 9 RE-WORK EMERGENCY LIGHTING TO ACCOMMODATE NEW WORK.
- (10) WAP LOCATION, BY OTHERS.



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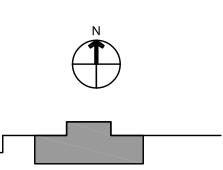


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Sheet Title: ELECTRICAL PLANS

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### ABBREVIATIONS AIR CONDITIONING CONDENSING UNIT NORMALLY CLOSED ACCESS DOOR NOT IN CONTRACT ABOVE FINISHED FLOOR NORMALLY OPEN AIR HANDLING UNIT NOM. NOMINAL ACCESS PANEL AUTOMATIC SPRINKLER RISER OUTSIDE AIR RETURN AIR BRITISH THERMAL UNIT RET RETURN RETURN FAN COOLING COIL RELOCATED CENTRIFUGAL FAN REBALANCE CUBIC FEET PER MINUTE CONT CONTINUATION SUPPLY AIR SMOKE DETECTOR SUPPLY FAN DIRECT DIGITAL CONTROL SPR SPRINKLER DETAIL SPR/STP SPRINKLER STANDPIPE DIAMETER DOWN TP TOTAL PRESSURE DWG. DRAWING TYP TYPICAL FXHAUST AIR UNIT HEATER EXHAUST FAN UON UNLESS OTHERWISE NOTED ELEVATION EXISTING EXH EXHAUST EXIST EXISTING FLOOR FEET INCHES INVERT LEAVING AIR TEMPERATURE MAXIMUM MBH 1000 BTU/HR

# HVAC LEGEND & SYMBOLS 18x6 22x14ø RISE → > DN.→ >

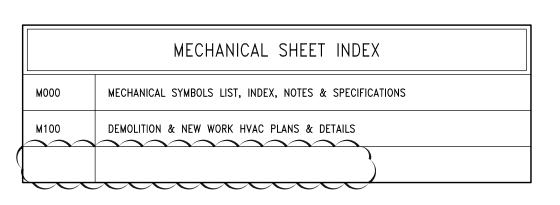
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## GENERAL HVAC NOTES:

THE FOLLOWING NOTES APPLY TO ALL HVAC DRAWINGS, EXCEPT WHERE OTHERWISE INDICATED.

- 1. WHEREVER VOLUME DAMPERS OCCUR ABOVE CEILINGS WITHOUT REMOVABLE TILE AND AN ACCESS PANEL IS NOT FURNISHED, PROVIDE AN EXPOSED DAMPER REGULATOR TO ALLOW DAMPER ADJUSTMENT FROM BELOW CEILING. UNIT TO BE EQUAL TO VENTLOCK No. 666 IN 1/2"x3/8" SIZE.
- 2. ALL DIMENSION SHOWN FOR DUCTWORK ARE NET INSIDE DIMENSIONS.
- 3. DIFFUSER AND REGISTER LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- 4. THOUGH SOME OFFSETS & TRANSITIONS ARE SHOWN IN PIPING AND SHEET METAL TO HELP INDICATE THE PHYSICAL RELATIONSHIP BETWEEN THEM. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL PIPING AND SHEET METAL OFFSET & TRANSITIONS REQUIRED THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF AND WITH THE WORK OF ALL TRADES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS WITHOUT INTERFERENCES.
- 5. DUCT PRESSURE CONSTRUCTION CLASSIFICATION SHALL BE AS SPECIFIED.
- 6. ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE SAME NOMINAL SIZE AS INDICATED ON THE DRAWINGS.
- 7. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASE OR SUSPENDED CEILING.
- 8. ACCESS PANELS AND DOORS ARE REQUIRED THROUGH BUILDING CONSTRUCTION ASSEMBLIES SUCH AS WALLS, CEILING, PARTITONS AND FLOORS TO SERVICE AND MAINTAIN DAMPERS, CONTROL MOTORS, REGULATORS, VALVES, FLEXIBLE DUCT CONNECTIONS AND OTHER ITEMS OR DEVICES INCORPORATED IN MECHANICAL WORK, SUCH PANELS AND DOORS SHALL BE PROVIDED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION OF ACESS DOORS AND PANELS AND VERIFY THE EXACT QUANTITY, SIZE, FIRE-RATING AND LOCATION AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILING AND BUILDING ASSEMBLIES. MINIMUM ACCESS PANEL AND DOOR SIZE SHALL BE 24 INCHES BY 18 INCHES UNLESS OTHERWISE NOTED.
- 9. ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE PROVIDED WITH FIRE DAMPERS AND ACCESS DOOR.



## MECHANICAL SPECIFICATION

MECHANICAL

MISCELLANEOUS

MINIMUM

MECHANICAL MATERIALS, METHODS AND EXECUTION WORK INCLUDED:

## WORK INCLUDED:

DET

DIA

EX.

FLR

MECH

MIN.

MISC

A. FURNISH ALL LABOR AND MATERIAL, APPLIANCES, EQUIPMENT AND SUPERVISION TO PUT IN PLACE A COMPLETE AND FUNCTIONING MECHANICAL INSTALLATION READY FOR OPERATION, AS SPECIFIED HEREIN AND AS INDICATED ON THE DRAWINGS. SYSTEMS SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO THE FOLLOWING MAJOR EQUIPMENT OR OPERATIONS: HEATING, VENTILATING AND AIR CONDITIONING. FIRE PROTECTION.

- "PROVIDE": TO FURNISH AND COMPLETELY INSTALL SPECIFIED PRODUCTS AND INCIDENTALS, WHETHER SPECIFICALLY INDICATED OR NOT, NECESSARY FOR A COMPLETE, FUNCTIONAL INSTALLATION. INCLUDES ALL GENERAL AND SPECIALIZED LABOR, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE THE INSTALLATION.
- B. "PIPING": A COMPLETE SYSTEM, INCLUDING PIPE, TUBING, FITTINGS, HANGERS, SUPPORTS, VALVES, AND ALL SPECIALTIES THAT COMPRISE A FULLY FUNCTIONAL PIPING SYSTEM, WHETHER SPECIFICALLY INDICATED OR NOT.

## CODES, ORDINANCES, AND STANDARDS:

- A. ALL WORK SHALL CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF THE LATEST ADOPTED FEDERAL, STATE AND LOCAL CODES, ORDINANCES, AND STANDARDS HAVING JURISDICTION OVER THE WORK.
- B. WHERE CONTRACT DOCUMENT REQUIREMENTS EXCEED THE REQUIREMENTS OF THE REFERENCED CODES, ORDINANCES, AND STANDARDS, THE CONTRACT DOCUMENT REQUIREMENTS SHALL BE TAKEN AS MINIMUM.
- C. ALL EQUIPMENT CONTAINING ELECTRICAL WIRING AND/OR ELECTRICAL COMPONENTS SHALL HAVE A UNDERWRITERS
- LABORATORIES (UL) "PACKAGE" LABEL. D. ALL GAS FIRED EQUIPMENT SHALL HAVE THE AMERICAN GAS ASSOCIATION (AGA) LABEL.

- PERMITS, FEES AND INSPECTIONS: A. SECURE ALL NECESSARY PERMITS, CONNECTION FEES, TAD FEES, LICENSES AND APPROVALS AND ARRANGE FOR ALL
- INSPECTIONS. INCLUDE ALL RELATED COSTS. B. FURNISH CERTIFICATES OF FINAL INSPECTION AND APPROVAL UPON COMPLETION OF PROJECT.

- A. VISIT PROJECT SITE AND BECOME FULLY COGNIZANT OF ALL EXISTING ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL AND SITE CONDITIONS, OR EXISTING CODE VIOLATIONS WHICH MAY AFFECT THE WORK.
- B. NOTIFY ARCHITECT PRIOR TO SUBMITTING BID IF REVISIONS TO CONTRACT DOCUMENTS ARE NECESSARY TO RECTIFY ANY OF THE AFOREMENTIONED EXISTING CONDITIONS.
- NO "EXTRAS" TO CONTRACT PRICE WILL BE ALLOWED AFTER RECEIVING BID IN ORDER TO RECTIFY EXISTING CONDITIONS IN ORDER TO MEET THE DESIGN INTENT OF THE CONTRACT DOCUMENTS OR SATISFY CODE REQUIREMENTS.

BE CONSIDERED EXTRA WORK.

- COORDINATE ALL WORK BEFORE AND DURING CONSTRUCTION WITH ALL OTHER AFFECTED TRADES.
- WHERE INTERFERENCES DEVELOP, NOTIFY ARCHITECT FOR RESOLUTION OF CONFLICT. RELOCATION OF CONFLICTING INSTALLED WORK, DUE TO LACK OF COORDINATION, OR POOR COORDINATION WILL NOT

## APPROVED MANUFACTURERS:

A. USE ONLY MATERIALS SPECIFICALLY INDICATED IN CONTRACT DOCUMENTS, OR COMPARABLE MATERIALS BY OTHER LISTED ACCEPTABLE MANUFACTURERS. NOTE THAT "ACCEPTABLE MANUFACTURER" DOES NOT CONSTRUE AUTOMATIC APPROVAL OF SPECIFIC MATERIALS BY ONE OR ALL OF THE LISTED ACCEPTABLE MANUFACTURERS. ARCHITECT AND/OR ENGINEER OF RECORD RESERVES THE RIGHT OF FINAL DETERMINATION OF ACCEPTABILITY OF EACH ITEM.

- SUBMIT COMPLETE SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT INTENDED FOR USE ON THIS PROJECT. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL PHYSICAL, PERFORMANCE AND ELECTRICAL CHARACTERISTICS FOR ALL MATERIALS AND EQUIPMENT.
- SUBMIT ELECTRONIC COPY OF ALL SHOP DRAWINGS FOR REVIEW. D. NO WORK IS TO BE INSTALLED PRIOR TO RETURN OF ARCHITECT REVIEWED SHOP DRAWINGS.

# OPERATION AND MAINTENANCE MANUALS:

- A. UPON COMPLETION OF PROJECT, SUBMIT TWO (2) COMPLETE BOUND SETS OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND SYSTEMS INSTALLED IN THIS PROJECT.
- MANUALS SHALL INCLUDE GUARANTEE(S), COMPLETE OPERATING INSTRUCTIONS, REPAIR PARTS LIST, PREVENTATIVE MAINTENANCE SCHEDULE, BELT AND FILTER SCHEDULE, AND LIST OF ALL SUBCONTRACTORS ASSOCIATED WITH THE WORK, INCLUDING TELEPHONE NUMBER AND CONTACT PERSON.

## **OPERATING AND MAINTENANCE INSTRUCTIONS:**

PRIOR TO FINAL ACCEPTANCE BY OWNER, PROVIDE ALL PERSONNEL, EQUIPMENT, AND LABOR AS NECESSARY TO INSTRUCT OWNER'S PERSONNEL IN PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT INSTALLED IN THIS PROJECT. PROVIDE INSTRUCTIONAL SESSION DURING TIME PERIOD AGREED TO WITH OWNER.

- ALL CUTTING AND PATCHING SHALL BE PROVIDED BY THE GENERAL TRADES UNDER THE DIRECTION OF THE MECHANICAL TRADES. COST WILL BE PAID BY THE MECHANICAL TRADE REQUESTING THE WORK.
- RESTORED SURFACES SHALL BE OF SAME MATERIALS AND QUALITY AS ADJACENT SURFACES, AND SHALL MATCH SURROUNDING SURFACES, AND/OR BE RESTORED TO PRE-CONSTRUCTION CONDITION.

## PROTECTION OF EXISTING SERVICES:

- PROTECT FROM ALL DAMAGE, EXISTING SERVICES (I.E., GAS, WATER, ELECTRICAL, ETC.), ENCOUNTERED IN THE WORK, NOT SPECIFICALLY INDICATED TO BE DEMOLISHED. INCLUDE ALL RELATED COSTS.
- B. REPAIR AND/OR REPLACE EXISTING ACTIVE SERVICES INTENDED TO REMAIN IN SERVICE, BUT DAMAGED DURING THE COURSE OF CONSTRUCTION. ABSORB ALL RELATED COSTS. NO "EXTRAS" WILL BE PAID TO RESTORE EXISTING ACTIVE SERVICES DAMAGED DURING CONSTRUCTION.
- ARCHITECT WILL DETERMINE COURSE OF ACTION WHEN EXISTING INACTIVE SERVICES ARE DAMAGED DURING COURSE OF CONSTRUCTION. ABSORB ALL COSTS RELATIVE TO ADDITIONAL DEMOLITION, TERMINATION, RELOCATION AND/OR RESTORATION OF EXISTING, DAMAGED INACTIVE SERVICES AS DIRECTED BY ARCHITECT.

PROVIDE ALL ELECTRICAL WORK ASSOCIATED WITH, AND NECESSARY TO COMPLETE THIS PROJECT, WHICH IS NOT INCLUDED AS ELECTRICAL TRADES WORK.

VOLUME CONTROL DAMPER

FLEXIBLE CONNECTION OR

MOTORIZED DAMPER

RF SHEILDING DAMPER

TEMPERATURE SENSOR

THERMOSTAT

FLEXIBLE DUCT CONNECTOR

COMBINATION FIRE AND SMOKE DAMPER

(MANUAL)

- PROVIDE ALL ELECTRICAL WORK, AS APPLICABLE, IN ACCORDANCE WITH DIVISION 16 REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION (WITH ELECTRICAL TRADES) OF CORRECT VOLTAGES FOR ALL MECHANICAL EQUIPMENT. IN CASE OF DISCREPANCY, NOTIFY ENGINEER IMMEDIATELY AND PRIOR TO SHOP DRAWING SUBMITTALS. FAILURE TO COMPLY WITH THIS REQUIREMENT HOLDS THE CONTRACTOR FULLY RESPONSIBLE FOR ANY SUBSEQUENT PROBLEMS

PRIOR TO FINAL ACCEPTANCE BY OWNER, THOROUGHLY CLEAN ALL WORK INSIDE AND OUT AS APPLICABLE, AND LEAVE ALL SYSTEMS AND EQUIPMENT IN PERFECT WORKING ORDER. THOROUGHLY CLEAN ALL PLUMBING FIXTURES, EXPOSED PIPING, FLOOR DRAIN GRATES, AND CLEANOUT COVERS AS APPLICABLE.

- A. REFER TO ARCHITECTURAL SPECIFICATIONS FOR GUARANTEES, IF NONE EXIST THE FOLLOWING MINIMUM GUARANTEES SHALL BE PROVIDED. 1. PROVIDE A ONE (1) YEAR GUARANTEE COVERING ALL LABOR AND MATERIAL PROVIDED IN THIS PROJECT. GUARANTEE SHALL
  - AS WELL AS LABOR CHARGES NECESSARY TO REMOVE AND REPLACE DEFECTIVE MATERIALS. PROVIDE 5 YEAR GUARANTEE FOR ALL COMPRESSORS. 3. DEFECTIVE MATERIALS AND/OR EQUIPMENT MAY BE REPAIRED IN LIEU OF REPLACED WITH PRIOR APPROVAL OF ARCHITECT AND/OR OWNER.

INCLUDE ALL SHIPPING AND TRANSPORTATION CHARGES NECESSARY TO RETURN DEFECTIVE MATERIALS TO MANUFACTURER,

# SHEET METAL NOTES:

INSTALL TRANSFER GRILLES IN ALL FULL HEIGHT PARTITIONS TO ALLOW RETURN AIR FLOW. SIZE PER MECHANICAL ENGINEER

## REQUIREMENTS. THESE SHALL BE FIRE DAMPERS IN RATED WALLS.

WITH DUCT SIZE 18 INCHES WIDE (IN PLANE OF DRAWING) AND 6 INCHES DEEP.

WITH DUCT SIZE 22 INCHES WIDE (IN PLANE OF DRAWING) AND 14 INCHES DEEP.

\_\_\_\_M

SIZE PERTAINS TO THE ENTIRE RUN OF DUCT UNLESS OTHERWISE NOTED.

SIZE PERTAINS TO THE ENTIRE RUN OF DUCT UNLESS OTHERWISE NOTED.

(FROM DUCT ORIGIN AT TAP TO END OF DUCT) UNLESS OTHERWISE NOTED.

6 INCHES IN DIAMETER. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT

VANED ELBOW ( PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS

VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF

INCLINED RISE IN RESPECT TO AIR FLOW

INCLINED DROP IN RESPECT TO AIR FLOW

INDICATES FLEXIBLE DUCT (RUNOUT) OF SIZE AS

SCHEDULED OR SHOWN. LENGTH SHALL NOT EXCEED 5 FT.

VANED ELBOW (SHORT RADIUS)

DUCT TURNING UP

VERTICAL FIRE DAMPER

HORIZONTAL FIRE DAMPER

POINT OF NEW CONNECTION

DUCT SMOKE DETECTOR

ITEM TO BE REMOVED

SUPPLY AIR DIFFUSER

RETURN AIR GRILLE

BLANK-OFF RETURN DUCTWORK IN AREAS OF WORK THAT CREATES DUST TO PREVENT DEBRIS FROM ENTERING MECHANICAL SYSTEM.

MEDIUM PRESSURE DUCTWORK: DUCTWORK ON INLET OF V.A.V. BOXES SHALL BE CONSTRUCTED AND SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST SMACNA'S ISSUE OF "HIGH PRESSURE DUCT CONSTRUCTION STANDARDS".

ALL DUCTWORK ON DISCHARGE OF V.A.V. BOXES, ALL RETURN AIR DUCTWORK AND EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED AND SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST SMACNA'S ISSUE OF "LOW PRESSURE DUCT CONSTRUCTION STANDARDS".

IN ADDITION, ALL JOINTS AND SEAMS SHALL BE SEALED WITH DUCT SEALANT EQUAL TO FOSTER #32-14. APPROVED SEALANT MANUFACTURERS: 3M COMPANY, BENJAMIN FOSTER COMPANY, UNITED SHEET METAL, FLINTKOTE.

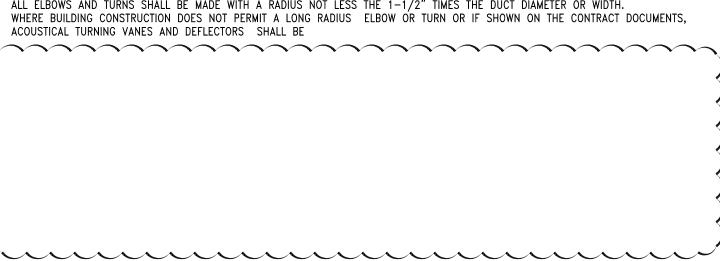
ALL ROUND TAKE-OFFS DOWNSTREAM OF TERMINAL UNITS SHALL BE MADE WITH CONICAL TAKE-OFF SPIN-IN FITTINGS TYPE SM-2DG, WITH FACTORY INSTALLED ADJUSTABLE DAMPER AS MANUFACTURED BY GENERAL ENVIRONMENT CORPORATION, GLENDALE, CALIFORNIA OR

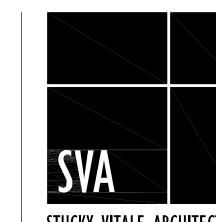
AT EACH POINT OF CONNECTION OF DUCTWORK TO FANS, PROVIDE A FLEXIBLE CONNECTION, VENTFABRICS, INC., "VENTGLAS L.A." NOT LESS THAN 12" IN LENGTH AND MADE OF HEAVY GRADE GLASS FABRIC DOUBLE COATED WITH NEOPRENE AND PROVIDED WITH A SUITABLE FRAME AT EACH END ARRANGED FOR BOLTING TO INLET AND OUTLET OF FAN AND DUCTWORK, RESPECTIVELY.

FOR RANGE HOOD EXHAUST FANS, WHERE INDICATED, PROVIDE VENTFABRICS, INC., "VENTBESTOS" FLEXIBLE CONNECTIONS. ALL AS APPROVED BY THE FIRE MARSHAL, AND ANY OTHER LOCAL AUTHORITY HAVING JURISDICTION.

## VANES AND DEFLECTORS:

ALL ELBOWS AND TURNS SHALL BE MADE WITH A RADIUS NOT LESS THE 1-1/2" TIMES THE DUCT DIAMETER OR WIDTH.





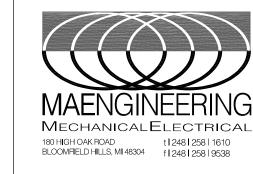
STUCKY VITALE ARCHITECTS 27172 WOODWARD AVENUE ROYAL OAK, MI 48067-0925

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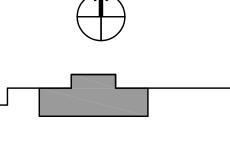


Project:

MATTHAEI ACADEMIC RESOURCE CENTER RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202

Key Plan:



Issued for

07.07.22

08.24.22

Drawn by:

**BID / PERMIT** 

BULLETIN #1

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NOTES & SPECIFICATIONS

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