MATTHAEI ACADEMIC RESOURCE **CENTER RENOVATION AND SAB** SHOWER RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202

ARCHITECT

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MECH/PLUMB/ELEC ENGINEER

MA ENGINEERING 180 HIGH OAK RD **BLOOMFIELD HILLS, MI 48304** (248) 258-1610

PROJECT INFORMATION

WSU PROJECT NUMBER: 080-349977

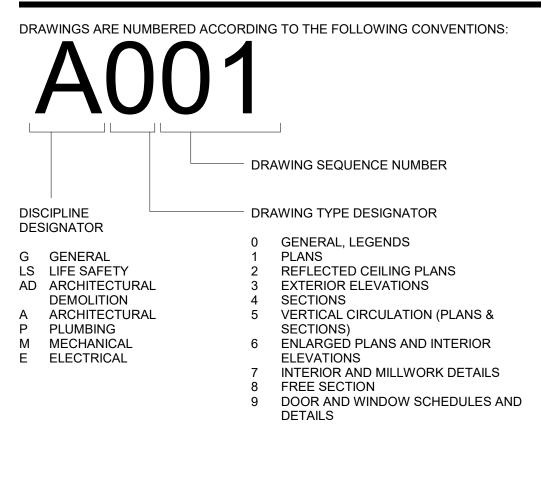
PROJECT DESCRIPTION RENOVATION OF EXISTING ACADEMIC RESOURCE CENTER IN MATTHAEI BUILDING INTO STUDENT ATHLETE LOUNGE.

APPLICABLE CODES 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS (MRC) 2015 MICHIGAN MECHANICAL CODE (MMC) 2015 MICHIGAN ENERGY CODE (MEC) 2013 ANSI/ASHRA/IES 90.1 2011 NATIONAL ELECTRICAL CODE (NEC) 2009 ICC A117.1 2015 NFPA 101 LIFE SAFETY CODE

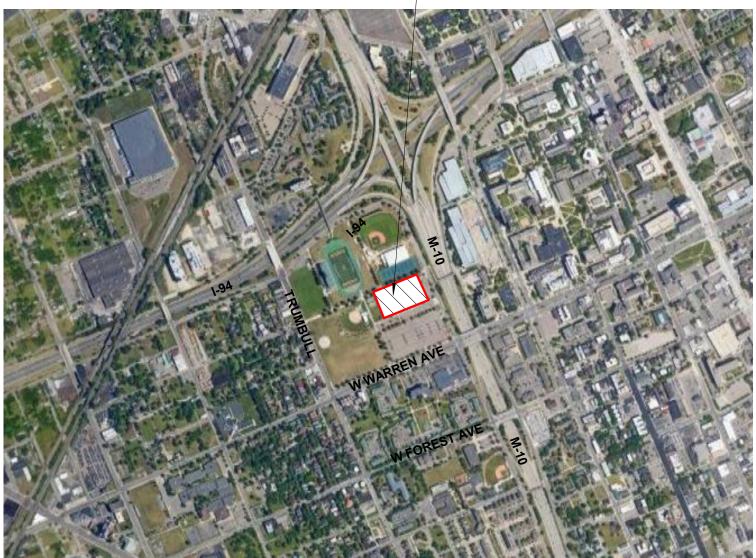
BARRIER FREE REQUIREMENTS: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (DOJ) MBC-2009, CHAPTER 11 ICC / ANSI 117.1 - 2006, EXCEPT SECTION 611 & 707

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION **ORIGINAL MATTHEI - EDUCATION: E** 2012 ADDITION - BUSINESS: B

SHEET DESIGNATION



PROJECT AREA



LOCATION MAP 6" = 1'-0"

	SHEET INDEX - GENERAL	-	
DWG #	DRAWING NAME	ISSUED FOR	DATE
G001	COVER SHEET, GENERAL INFORMATION, DRAWING INDEX	BID / PERMIT	07.07.22
G002	STANDARD MOUNTING HEIGHTS, PARTITION TYPES AND DETAILS	BID / PERMIT	07.07.22
DRAWIN	GS: 2		

	SHEET INDEX - LIFE SAFETY				
DWG#	DRAWING NAME	ISSUED FOR	DATE		
LS110	CODE INFORMATION AND FLOOR LIFE SAFETY PLAN - EGRESS PLANS	BFS RESPONSE	08.29.22		
DRAWING	SS: 1				

	SHEET INDEX - ARCHITECTU	RAL	
DWG #	DRAWING NAME	ISSUED FOR	DATE
AD100	ARCHITECTURAL DEMOLITION PLANS	BULLETIN #1	08.24.22
A110	FIRST LEVEL NEW CONSTRUCITON AND RCP	BFS RESPONSE	08.29.22
A120	SAB DEMOLITION, NEW WORK AND CEILING PLANS	BULLETIN #2	11.09.22
A610	INTERIOR ELEVATIONS AND ENLARGED PLANS FIRST LEVEL	BFS RESPONSE	08.29.22
DRAWIN	GS: 4		
	SHEET INDEX - MECHANICA	AL	
DWG#	SHEET INDEX - MECHANICA	AL ISSUED FOR	DATE
DWG # M000			DATE 07.07.22

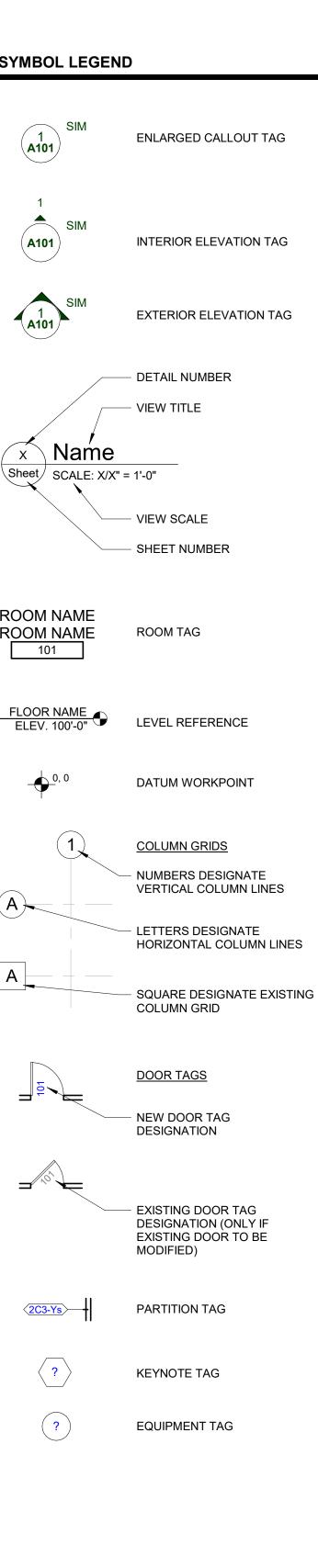
	SHEET INDEX - ELECTRICAL				
DWG #	DRAWING NAME	ISSUED FOR	DATE		
E001	ELECTRICAL LEGEND, SHEET INDEX AND SPECIFICATION	BID / PERMIT	07.07.22		
ED001	DEMOLITION PLANS	BID / PERMIT	07.07.22		
E100	ELECTRICAL PLANS	BID / PERMIT	07.07.22		
DRAWIN	GS: 3				

THESE CONSTRUCTION DRAWINGS WERE PREPARED FOR COMPLIANCE WITH THE MICHIGAN CONSTRUCTION CODES IN EFFECT AT THE TIME OF PERMIT SUBMITTAL. ALL ENGINEERS, CONTRACTORS AND SUPPLIERS INVOLVED WITH THIS PROJECT SHALL COMPLY WITH THE SAME CODES, ISSUED AND APPROVED CODE MODIFICATIONS AND/OR CITY CODE AUTHORITY CONSTRUCTION BOARDS OF APPEALS RULINGS AND WHENEVER REQUIRED SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS CLEARLY DESCRIBING COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW AND APPROVAL.

ATERIAL LEGEND					
HATCH PATTE	ERNS				
	EARTH				
$ \begin{array}{c} \begin{array}{c} & & \\$	SAND				
	GRAVEL FILL				
	CONCRETE				
	MASONRY				
$ \begin{array}{c} x_{1} & x_{2} & x_{3} & x_{4} $	GROUT				
	MORTAR				
	STEEL	$\left(\right)$			
	STAINLESS STEEL				
	RIGID INSULATION				
	GYPSUM BOARD	_			
	CEMENT BOARD	F			
TYPICAL DET	AIL SYMBOLS				
	STEEL MEMBER				
I	SPRAY ON FIREPROOFING				
	HARDWOOD				
	PLYWOOD				
	CONTINUOUS BLOCKING				
	SHIM				
	BATT INSULATION				
	SEALANT WITH BACKER ROD				

PARTITION PLAN DESIGNATIONS

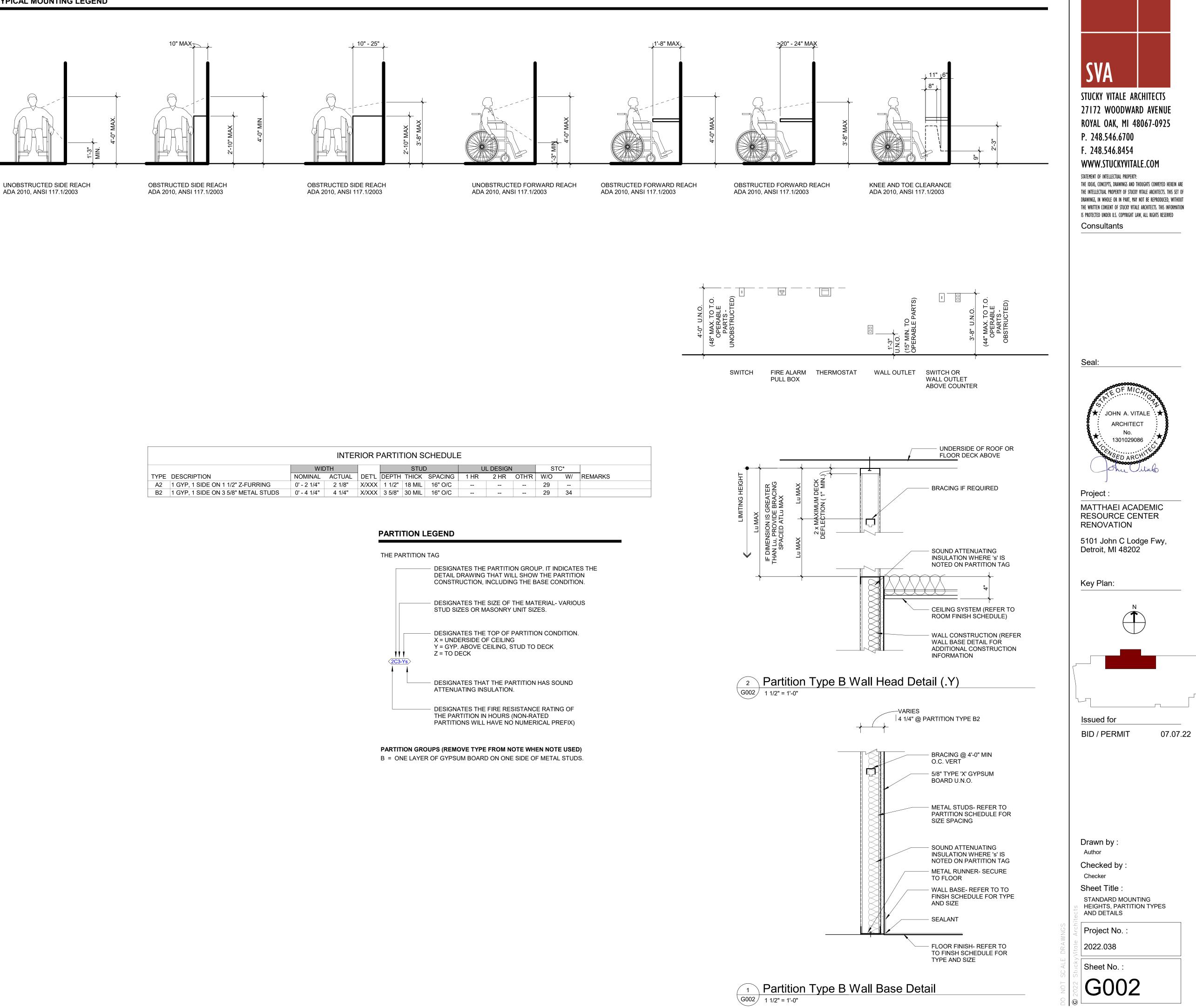
	SMOKE SEPARATION
	1 HOUR FIRE SEPARATION
	2 HOUR FIRE SEPARATION
	3 HOUR FIRE SEPARATION
	METAL STUD PARTITION
	CMU PARTITION
4, -, 4-	CONCRETE WALL



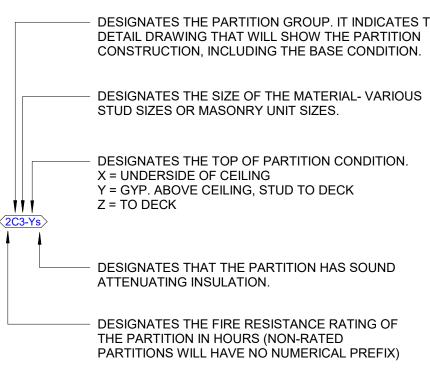
ABBREVIATION LEGEND AND AT CENTERLINE ACCESS ACCESSIBILITY ACOUS. ACOUSTICAL ACOUSTICAL CEILING TILE ACT A.D. AREA DRAIN ADJUSTABLE ADJ ALUMINUM ASPH. ASPHALT BOARD BD. BLDG. BUILDING BLK. BLOCKING BRICK BR CAB. CABINET CEMENT CEM. CER. CERAMIC COLD FORMED METAL FRAMING CFMF C.J. CONTROL JOINT CLG CEILING CLKG. CAULKING CLR. CLEAR COL. COLUMN CONC. CONCRETE CONT. CONTINUOUS CORR. CORRIDOR CPT CARPET D.F. DRINKING FOUNTAIN DET. DETAIL DIAMETER DIA. DIM. DIMENSION DOWN DN. D.O. DOOR OPENING DOOR DR. DWR. DRAWER D.S. DOWN SPOUT DSP DRY STAND PIPE DWG. DRAWING EACH EA EXPANSION JOINT E.J. ELEVATION EL ELEC. ELECTRICAL ELEV. ELEVATOR E.O.S./EOS EDGE OF SLAB E.O.D./EOD EDGE OF DECK ELECTRICAL PANEL EP EPX EPOXY EQ. EQUAL EQPM EQUIPMENT EXIST./EX EXISTING EXT. EXTERIOR FIRE ALARM FA FLOOR DRAIN FD FOUNDATION FON FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FHC FIRE HOSE CABINET FIN FINISH FLOOR FL FPRF FIREPROOF FIBERGLASS REINFORCED PANEL FRP F.S. FULL SIZE FOOT OR FEET FT. FTG. FOOTING FUR FURRING GAUGE GA. GALV. GFRC. GALVANIZED GLASS FIBER REINFORCED CONCRETE GLASS GL. GYPSUM GYP. HOSE BIBB H.B. H.C. HOLLOW CORE HDWE HARDWARE HM HOLLOW METAL HORIZ. HORIZONTAL INSUL INSULATION JANITOR'S CLOSET JC LT LIGHT LUXURY VINYL TILE LVT MAX MAXIMUM MECH MECHANICAL MTL METAL MFR. MANUFACTURER MIN. MISC. MINIMUM MISCELLANEOUS M.O. MASONRY OPENING NIC NOT IN CONTRACT NTS NOT TO SCALE O/C ON CENTER OFC OFFICE OPP OPPOSITE PLATE PL PLAM PLASTIC LAMINATE PNT PAINT PLYWD PLYWOOD **ROOF DRAIN** RD RCP REFLECTED CEILING PLAN RQD REQUIRED SOLID CORE SC SCHED SCHEDULE SIM SIMILAR SPEC SPECIFICATIONS SQ SQUARE S.S. STAINLESS STEEL SOLID SURFACE SS ST STONE STD STANDARD STL STEEL STOR STORAGE SUSP SUSPENDED SYM SYMMETRICAL TRD TREAD T.O.C. TOP OF CURB T&G TONGUE AND GROOVE THK THICK T.O.P. TOP OF PARAPET ΤA TOILET ACCESSORY TELEVISION ΤV T.O.W. TOP OF WALL TOS/ T.O.S. TOP OF STEEL TYP. TYPICAL U.N.O. UNLESS NOTED OTHERWISE VCT VINYL COMPOSITION TILE VERT. VERTICAL VEST VESTIBULE **VINYL FLOORING** VF WITH W/ WALL BASE WB WATER CLOSET W.C. WC WALLCOVERING WD WOOD W/O WITHOUT WSCT. WAINSCOT WT. WEIGHT

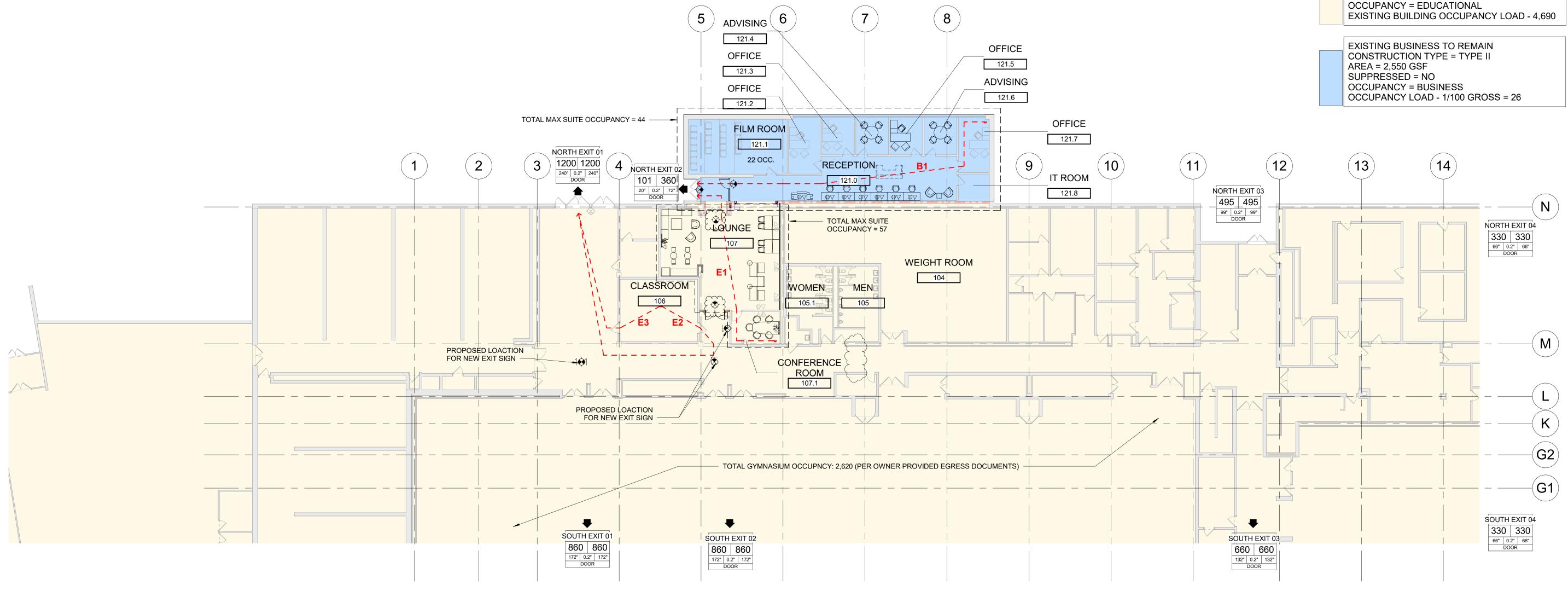


Issued for **BID / PERMIT** 07.07.22 Drawn by : SVA Checked by : JAV, MJB, AJD Sheet Title : COVER SHEET, GENERAL INFORMATION, DRAWING INDEX Project No. 2022.038 Sheet No. G00



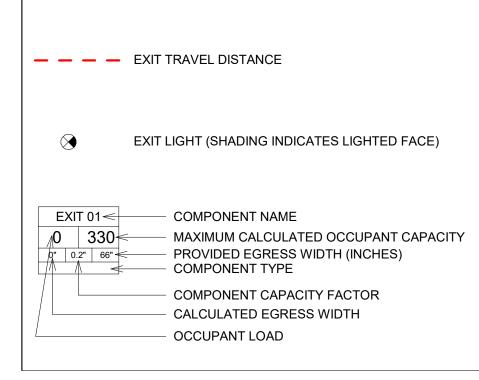
INTERIOR PARTITION SCHEDULE													
WIDTH STUD UL DESIGN STC*													
TYPE	DESCRIPTION	NOMINAL	ACTUAL	DET'L	DEPTH	THICK	SPACING	1 HR	2 HR	OTH'R	W/O	W/	REMARKS
A2	1 GYP, 1 SIDE ON 1 1/2" Z-FURRING	0' - 2 1/4"	2 1/8"	X/XXX	1 1/2"	18 MIL	16" O/C				29		
B2	1 GYP, 1 SIDE ON 3 5/8" METAL STUDS	0' - 4 1/4"	4 1/4"	X/XXX	3 5/8"	30 MIL	16" O/C				29	34	





1 Level 1 Life safety LS110 1/16" = 1'-0"

LIFE SAFETY SYMBOL LEGEND



EGRESS TRAVEL DISTANCE SCHEDULE Egress Path Travel Distance 101' - 8" B1 63' - 8" E1 E2 101' - 0" E3 54' - 3"

EXISTING EDUCATIONAL BUILDING OCCUPANT LOAD = 4,690 EXISTING BUSINESS + EDUCATIONAL OCCUPANT LOAD = 101 TOTAL FACILITY OCCUPANT LOAD = 4,791

TOTAL OCCUPANT EGRESS CAPACITY PROVIDED = 5,095

> EXISTING EDUCATIONAL TO REMAIN CONSTRUCTION TYPE = TYPE II AREA = 108,500 SF SUPPRESSED = NO

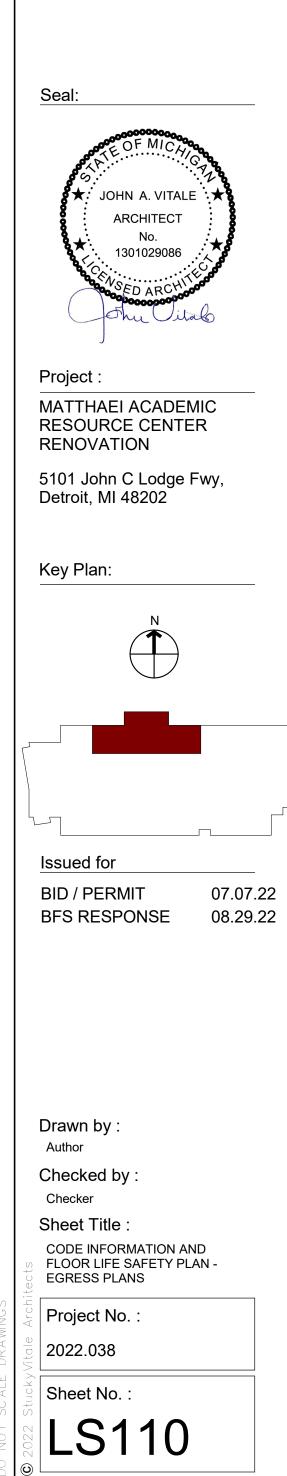
EXISTING BUSINESS TO REMAIN CONSTRUCTION TYPE = TYPE II AREA = 2,550 GSF SUPPRESSED = NO OCCUPANCY = BUSINESS OCCUPANCY LOAD - 1/100 GROSS = 26
SUPPRESSED = NO OCCUPANCY = BUSINESS OCCUPANCY LOAD - 1/100 GROSS = 26

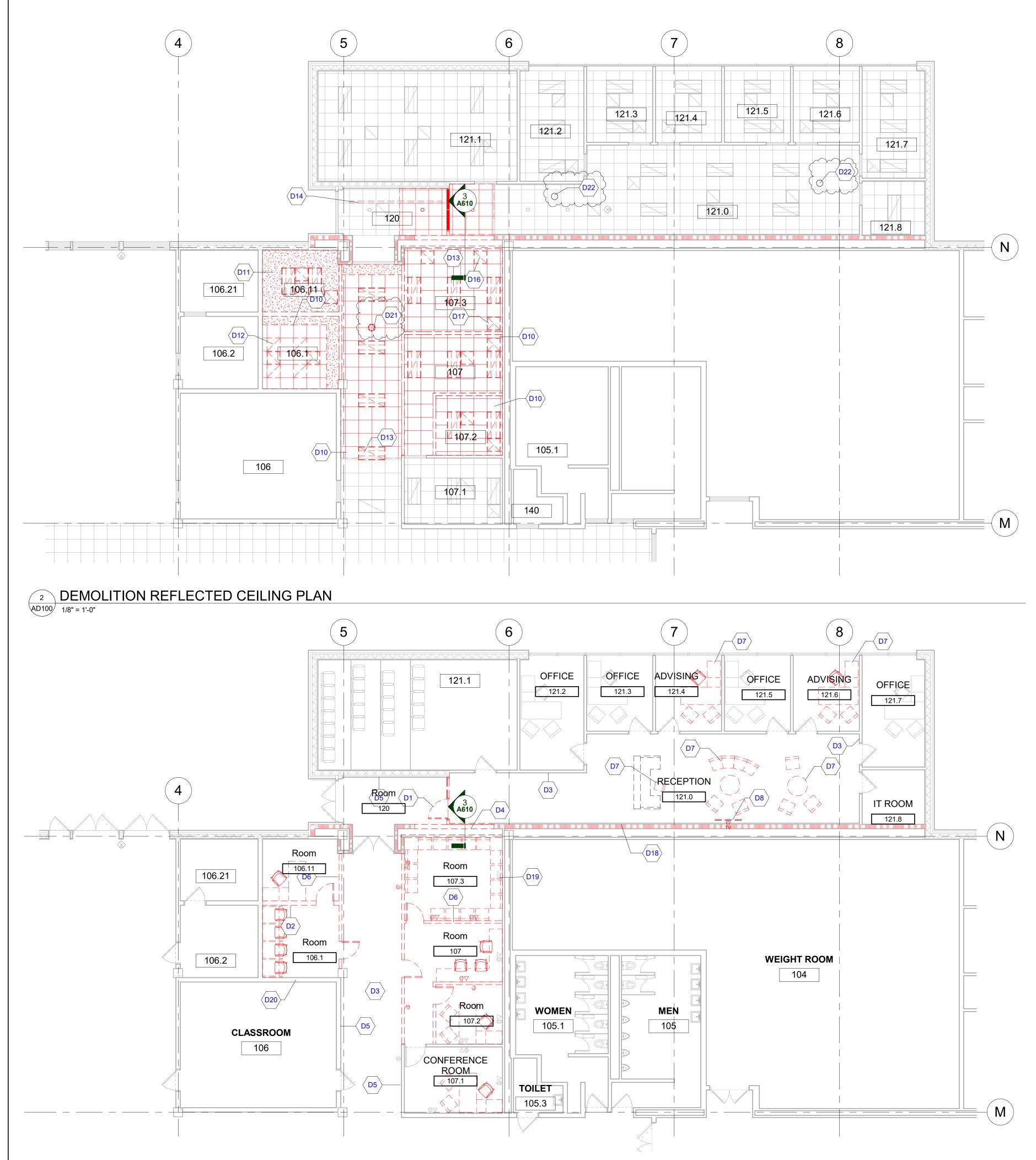


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DEMOLITION PLAN AD100 1/8" = 1'-0"

AND REINSTALL GLASS BOARD. D3 REMOVE EXISTING SIGNAGE AND SALVAGE FOR OWNER. COORDINATE STORAGE LOCATION OF REMOVED SIGNAGE. D4 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. CONTRACTOI 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 STRIP LIGHT. REUSE WHERE POSSIBLE, TYP. D14 REMOVE EXISTING RETURN AIR GRILLE. REUSE WHERE POSSIBLE, TYP. D17 REMOVE EXISTING EXHAUST AIR GRILLE. REUSE WHERE POSSIBLE, TYP. D18 EXISTING POWER AND DATA TO REMAIN. D19 EXISTING OWER AND DATA TO REMAIN.	DEMOLITION KEYNOTE LEGEND				
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 GLASS BOARD. CONTRACTOR TO SALVAGE AND REINSTALL GLASS BOARD. D4 MODIFY EXISTING SIGNAGE AND SALVAGE FOR OWNER. COORDINATE STORAGE LOCATION OF REMOVED SIGNAGE. D4 MODIFY EXISTING PARTITION AS REGUIRED 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 WILLS 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. CONTRACTON TO SALVAGE AND REUSE ALL COMPONENTS. SEE NEW WORK PLAN FOR NEW INSTALL LOCATION. D10 REMOVE EXISTING CYP. BOARD CEILING AS REQUIRED FOR NEW PARTITION LAYOUT, TYP. D11 REMOVE EXISTING CX4 LIGHT FIXTURE. REUSE WHERE POSSIBLE, TYP. D13 REMOVE EXISTING STRIP LIGHT. REUSE WHERE POSSIBLE, TYP. D14 REMOVE EXISTING STRIP LIGHT FIXTURE. REUSE WHERE POSSIBLE, TYP. D15 REMOVE EXISTING RETURN AIR GRILLE. REUSE WHERE POSSIBLE, TYP. </th <th>KEYNOTE</th> <th>KEYNOTE DESCRIPTION</th>	KEYNOTE	KEYNOTE DESCRIPTION			
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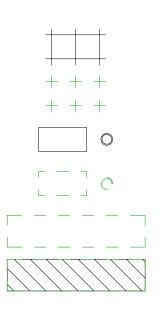
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DEMOLITION RCP LEGEND



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EXISTING CEILING FIXTURE (LIGHT, DIFFUSER, ETC.) TO REMAIN

CEILING (LIGHT, DIFFUSER, ETC.) FIXTURE TO BE REMOVED UNLESS NOTED OTHERWISE CEILING FINISH TO BE REMOVED

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

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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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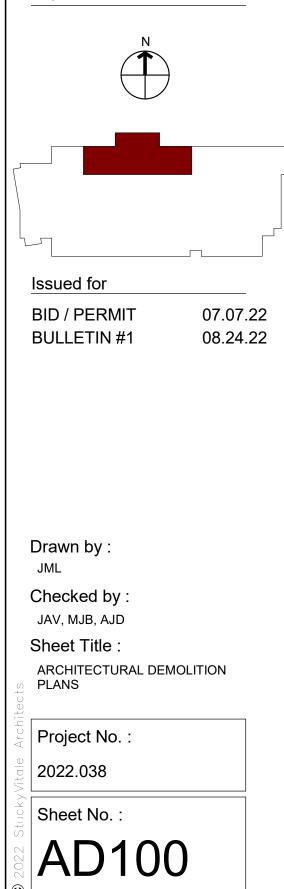


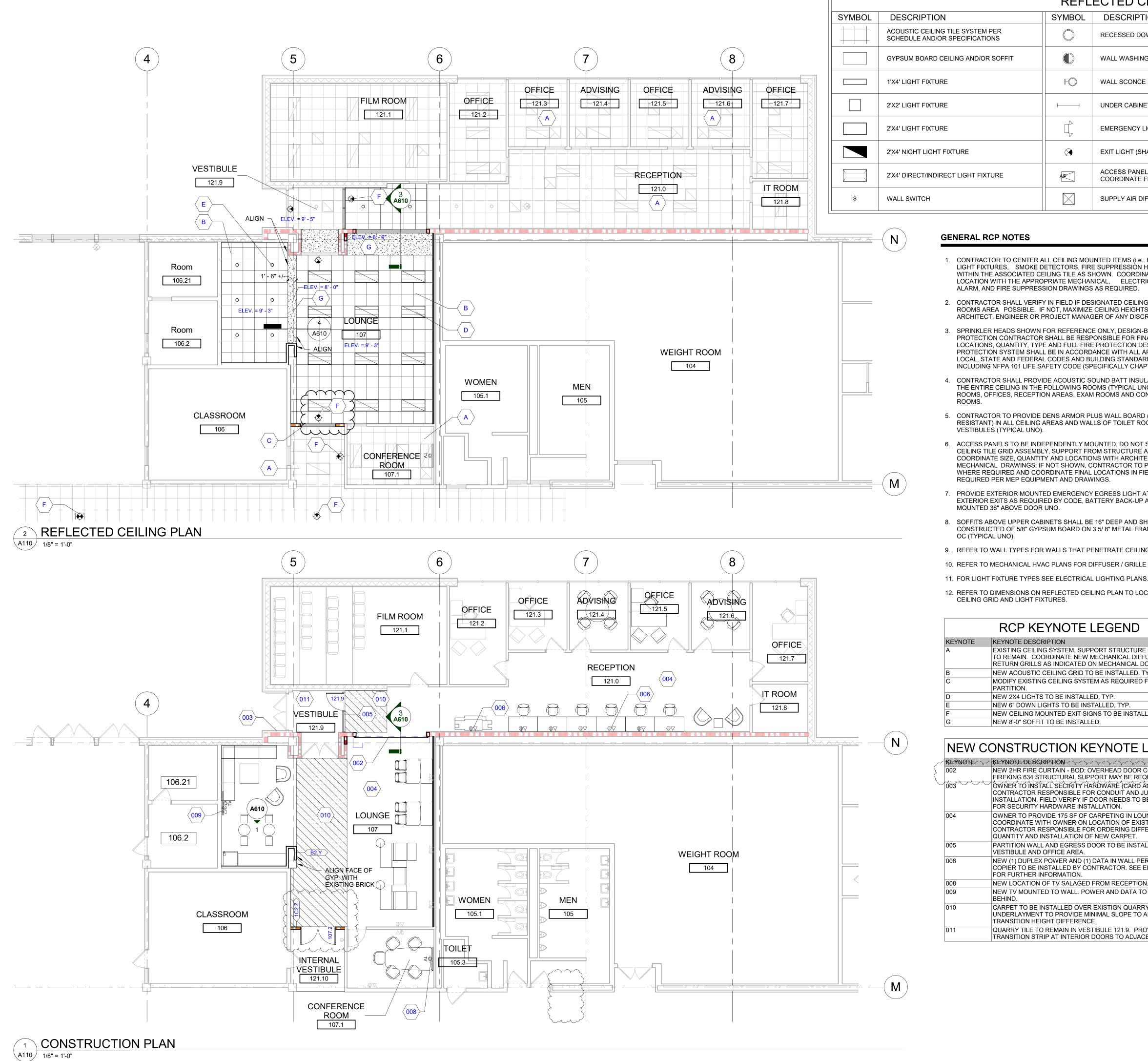


Project :

MATTHAEI ACADEMIC RESOURCE CENTER RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202





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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.
- 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"
- 9. REFER TO WALL TYPES FOR WALLS THAT PENETRATE CEILINGS.
- 10. REFER TO MECHANICAL HVAC PLANS FOR DIFFUSER / GRILLE SIZES.
- 12. REFER TO DIMENSIONS ON REFLECTED CEILING PLAN TO LOCATE / LAYOUT CEILING GRID AND LIGHT FIXTURES.

RCP KEYNOTE LEGEND

KEYNOTE	KEYNOTE DESCRIPTION
A	EXISTING CEILING SYSTEM, SUPPORT STRUCTURE AND LIGHTS TO REMAIN. COORDINATE NEW MECHANICAL DIFFUSER AND RETURN GRILLS AS INDICATED ON MECHANICAL DOCUMENTS.
В	NEW ACOUSTIC CEILING GRID TO BE INSTALLED, TYP.
С	MODIFY EXISTING CEILING SYSTEM AS REQUIRED FOR NEW PARTITION.
D	NEW 2X4 LIGHTS TO BE INSTALLED, TYP.
E	NEW 6" DOWN LIGHTS TO BE INSTALLED, TYP.
F	NEW CEILING MOUNTED EXIT SIGNS TO BE INSTALLED.
G	NEW 8'-0" SOFFIT TO BE INSTALLED.

NEW CONSTRUCTION KEYNOTE LEGEND

KEYNOTE	KEYNOTE DESCRIPTION
002	NEW 2HR FIRE CURTAIN - BOD: OVERHEAD DOOR COMPANY FIREKING 634 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.
008	NEW LOCATION OF TV SALAGED FROM RECEPTION.
009	NEW TV MOUNTED TO WALL. POWER AND DATA TO BE INSTALLED BEHIND.
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.

REFLECTED CEILING LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION		
RECESSED DOWNLIGHT FIXTURE		RETURN AIR GRILL		
VALL WASHING LIGHT FIXTURE		EXHAUST AIR GRILL		
VALL SCONCE FIXTURE	Ś	SMOKE DETECTOR		
JNDER CABINET LIGHT FIXTURE	۲	FIRE SUPPRESSION HEAD		
EMERGENCY LIGHT FIXTURE W/ BATTERY SUPPLY	S	SPEAKER		
EXIT LIGHT (SHADING INDICATES LIGHTED FACE)	+ HEIGHT	ELEVATION ABOVE FINISHED FLOOR		
ACCESS PANEL - COORDINATE FINAL LOCATION WITH MEP	E	EXISTING FIXTURE TO REMAIN		
SUPPLY AIR DIFFUSER	R	EXISTING FIXTURE TO BE RELOCATED		

GENERAL PLAN NOTES

- 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.
- 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.
- INTS IN GYPSUM BOARD PARTITIONS AT 30'-0" O.C. 13. PROV ATED IN THE CONTRACT DOCUMENTS. MAXI
- 14. COOF NER'S EQUIPMENT SUPPLIER FOR INSTALLATION REQUIREMENTS / LOCATIONS OF FLOOR / WALL / CEILING MOUNTED ITEMS; IE. CAMERAS, TV'S, SPEAKERS, SENSORS, SECURITY WIRING, VAULTS, ATM'S.
- 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, FTC
- 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 703.7)
- 19. CONTRACTOR TO COORDINATE WITH FURNITURE VENDOR ON FURNITURE SPECIFICATIONS, LAYOUT, AND INSTALL



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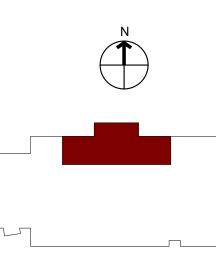


Project :

MATTHAEI ACADEMIC RESOURCE CENTER RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202

Key Plan:



Issued for

BID / PERMIT BULLETIN #1 BFS RESPONSE

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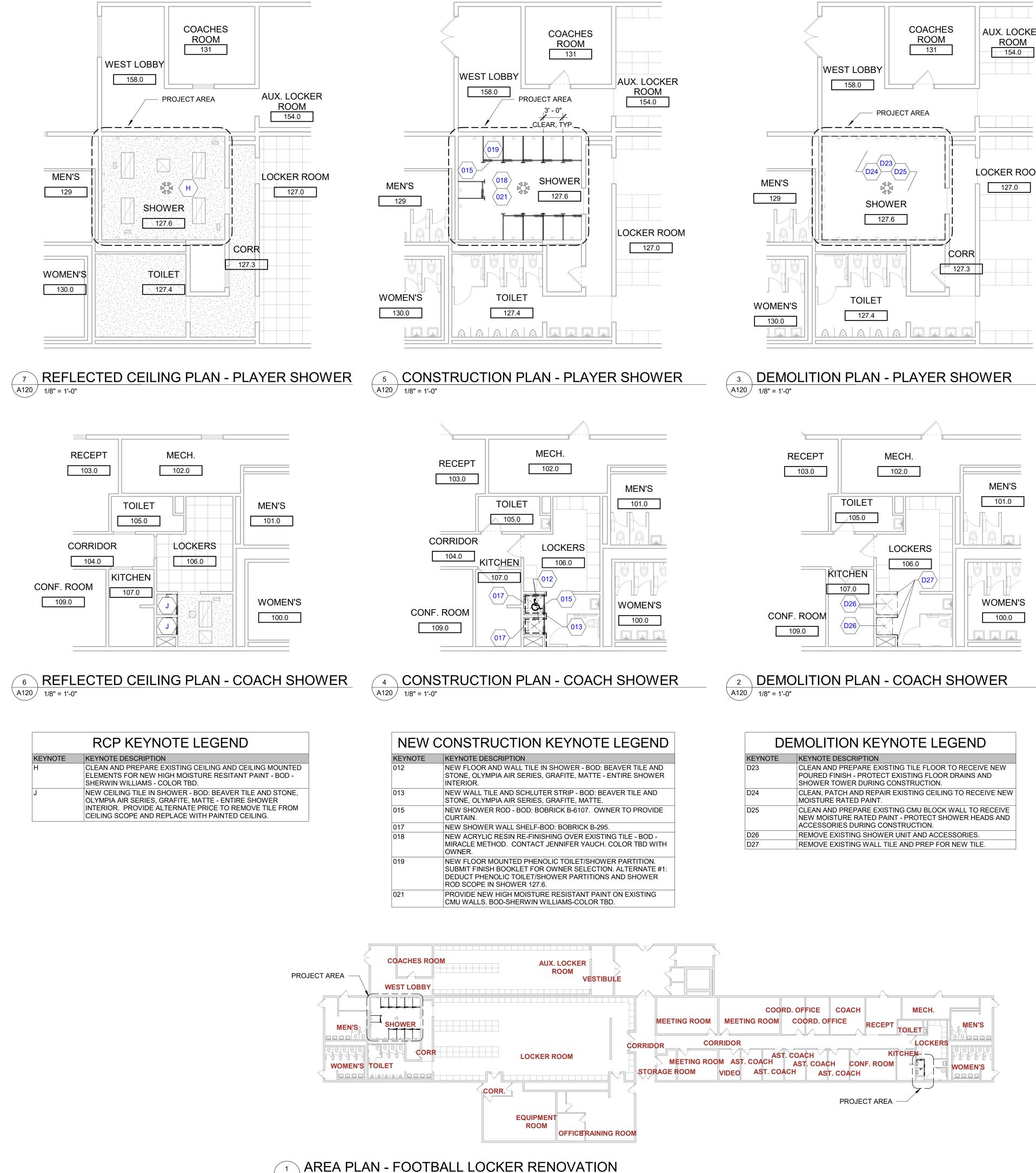
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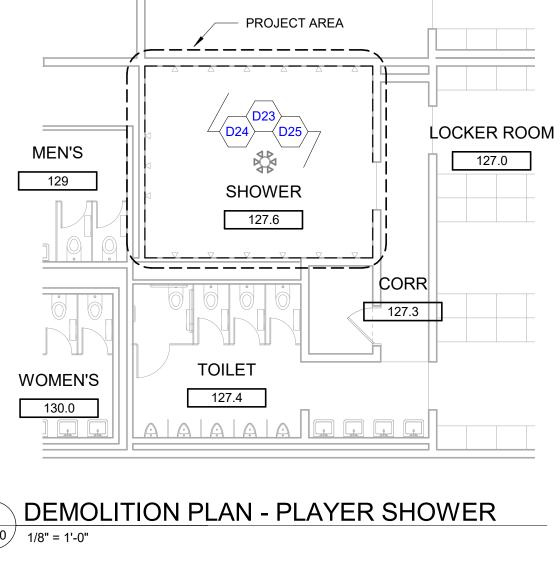
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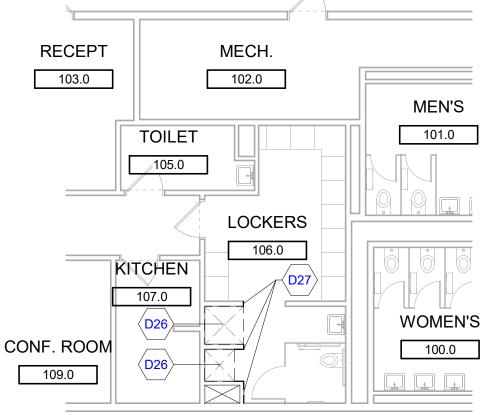
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DEMOLITION PLAN - COACH SHOWER

EYNOTE	KEYNOTE DESCRIPTION
23	CLEAN AND PREPARE EXISTING TILE FLOOR TO RECEIVE NEW POURED FINISH - PROTECT EXISTING FLOOR DRAINS AND SHOWER TOWER DURING CONSTRUCTION.
24	CLEAN, PATCH AND REPAIR EXISTING CEILING TO RECEIVE NEW MOISTURE RATED PAINT.
25	CLEAN AND PREPARE EXISTING CMU BLOCK WALL TO RECEIVE NEW MOISTURE RATED PAINT - PROTECT SHOWER HEADS AND ACCESSORIES DURING CONSTRUCTION.
26	REMOVE EXISTING SHOWER UNIT AND ACCESSORIES.
27	REMOVE EXISTING WALL TILE AND PREP FOR NEW TILE.

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- 4. ALL WOOD, INCLUDING BLOCKING, USED ON THE PROJECT SHALL BE FIRE RETARDANT TREATED.
- 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.
- 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, ATM'S.
- 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, ETC.
- 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 703.7
- 19. CONTRACTOR TO COORDINATE WITH FURNITURE VENDOR ON FURNITURE SPECIFICATIONS, LAYOUT, AND INSTALL.

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.
- 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 ROOMS
- 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.
- 7. 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.

\A120 / 1" = 20'-0"

DEMOLITION PLAN LEGEND

MAXIMUM AND AS INDICATED IN THE CONTRACT DOCUMENTS.

- 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".
- 4. 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

STUCKY VITALE ARCHITECTS

27172 WOODWARD AVENUE ROYAL OAK, MI 48067-0925 P. 248.546.6700

F. 248.546.8454 WWW.STUCKYVITALE.COM

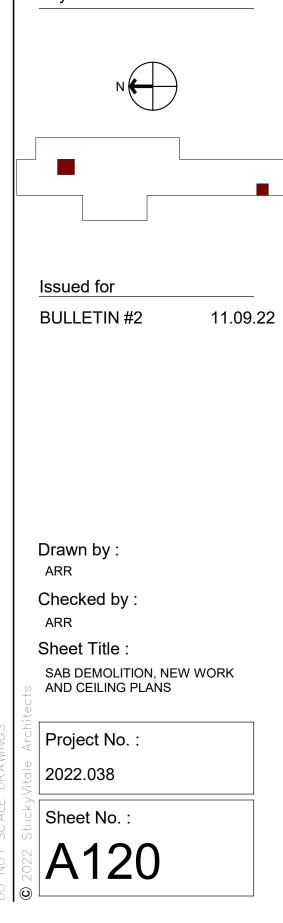
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Seal:

Project :

MATTHAEI ACADEMIC **RESOURCE CENTER** RENOVATION AND SAB SHOWER RENOVATION

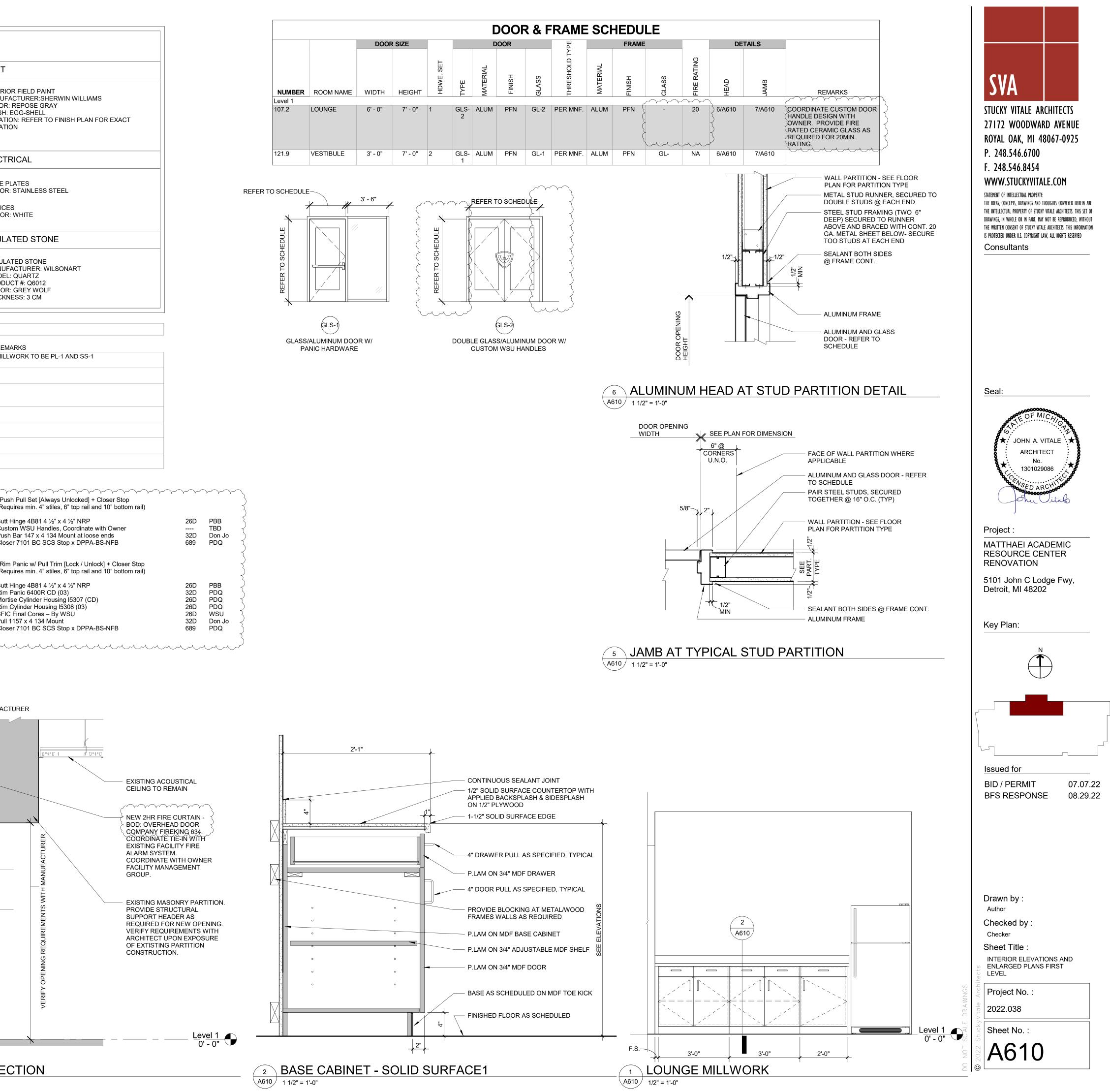
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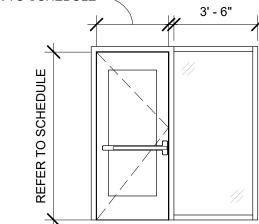
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PL-1 PLASTIC LAMINATE MANUFACTURER: WILSONART CT-1 CARPET MANUFACTURER: MATCH EXISTING COLOR: STANDARD HPL PRODUCT #: 15504 PRODUCT #: 15504 COLOR: CHARCOAL VELVET FINISH: TRACELESS FINISH COLOR: CHARCOAL VELVET LOCATION: REFER TO FINISH PLAN FOR EXACT RB-1 RUBBER WALL BASE MANUFACTURER: POPPE			PT-1	M/ CC FII LC	TERIOR I ANUFAC DLOR: RE NISH: EG DCATION DCATION				
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09510 - SUSPENDED ACOUSTICAL CEILING			LOCÁTI FOR LO CONTA	-	- FA				
ACT-1 ACOUSTIC CEILING TILE MANUFACTURER: ARMSTRONG COLLECTION: ULTIMA COLOR: WHITE SIZE: 2 X 2 EDGE: SQUARE LAY IN EDGE GRID PROFILE: KEEP EXISTING (WARREN)							-	D	OLOR: S ⁻ EVICES OLOR: W
							1200		ЛULATE
	LOCATION: SEE	RCP FOR MORE DETAIL	,				SS-1	S	IMULATE
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					FINISH SCHEDU				
107 LC	DOM NAME DUNGE	FLOOR FINISH CT-1 - SEE NOTE 004 ON SHEET A110	BASE FINISH RB-1	NORTH WALL MATCH RECEPTION	EAST WALL MATCH RECEPTION	SOUTH WALL MATCH RECEPTION	WEST WATCH RECE		REMARI
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121.4 AI	DVISING	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	NECESSARY EXIST'G TO REMAIN	EXIST'G TO RI	EMAIN	
	DVISING	EXIST'G TO REMAIN	EXIST'G TO REMAIN EXIST'G TO	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO RI	EMAIN	
		EXIST'G TO REMAIN	REMAIN EXIST'G TO REMAIN	MATCH EXIST'G CORRIDOR	MATCH EXIST'G CORRIDOR	N/A	MATCH EXIST CORRIDOR	'G	
Level 1: 7 TOTAL RC	OOMS: 7								
THES CONT WILL ALL D PROV ALL D FURN PROV CONF KEYS PROV ACCE SIGN/ THE N FURN PROV AND N	E DRAWINGS ARE PI RACTED. THE ARCH RESULT IN COMPLET POORS REQUIRED TO VIDED WITH APPROV DESIGNATED EXIT DO IISH HARDWARE AS VIDE PDQ CYLINDERS FOR EACH LOCKING VIDE ONE EACH LUNI SSORIES -KEY GATH ATURE RECEIPT FOR NUMBER OF LOCKS FI IISH AND PROVIDE A VIDE COMPLETE SHO VERTICAL FORMAT D RS, FRAMES & HARD JLES, READERS AND AGE, CIRCUITS, CAB	IS, ACCESSORIES, ETC. REPARED IN ACCORDAN ITECT MAKES NO REPR TE COMPLIANCE WITH T D BE LABELED SHALL BE ED SELF-CLOSING DEVIC ORS SHALL BE EQUIPPE SCHEDULED WITHOUT S G, COMBINATED IC CORE YSTEM SCHEDULE. WH G DEVICE SPECIFIED; PLU D 1200 SERIES WALL KEY IERING ENVELOPES, HO MS, VISIBLE INDEX AND REQUIRED FOR THE PRO UNCTIONING OPENING. OP DRAWINGS, SUBMITT, OUBLE SPACED HARDW WARE TO BE FURNISHE ACCESS CONTROL PEF LE, BACK BOXES FURNIS	ESENTATION THE HE ADA. SET IN LABELEI CES AND POSITI ED WITH THE RE BUBSTITUTION, N ES AND KEYS; KE ERE "PDQ2" IS IN US SIX MASTER Y CABINET. PRO POK LABELS, PEF INSTRUCTION E DJECT. RCEMENTS, BRA ALS AND CUT SH VARE SCHEDULE D BY DOOR HAR RIPHERALS FURI SHED AND INSTA	AT THE INTERPRETAT D FRAMES AND IDENTII VE LATCHING HARDWA QUIRED EGRESS HARI NO ALTERNATES WILL I EYED TO MASTER SYST NDICATED, FURNISH A KEYS AND TWO CONTH VIDE A COMPLETE SYS RMANENT KEY TAGS, T BOOK. PROVIDE WITH C ACKETS, FASTENERS, S HEETS COMPLYING WITH E. DWARE SUPPLIER AS NISHED AND INSTALLE ALLED BY LICENSED EL	ION OF THESE DOCUME FIED WITH UL LABEL AN ARE. DWARE. BE APPROVED. FEM. INCLUDE KEY KEYED CORE AND TWO ROL KEYS. FTEM; INCLUDING ALL EMPORARY KEY TAGS, CAPACITY FOR 150 PERC SPACERS AND FILLERS FH DHI PRESCRIBED ME SPECIFIED. ACCESS CC D BY SECURITY VENDER ECTRICIAN.	ENTS D BE CUT CUT TO THODS	Hardwa 3 1 2 1 2 1 1 •	ea. ea. ea. ea. ea. 8"	2 – Rim P (Requir Butt Hin Rim Pa Mortise Rim Cy SFIC F Pull 115 Closer
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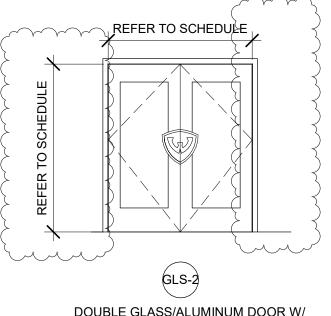
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RIOR FIELD PAINT UFACTURER:SHERWIN WILLIAMS DR: REPOSE GRAY H: EGG-SHELL ATION: REFER TO FINISH PLAN FOR EXACT ATION	
TRICAL	
E PLATES OR: STAINLESS STEEL	
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JLATED STONE UFACTURER: WILSONART DEL: QUARTZ DUCT #: Q6012 OR: GREY WOLF KNESS: 3 CM	
]
EMARKS ILLWORK TO BE PL-1 AND SS-1	

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Push Pull Set [Always Unlocked] + Closer Stop Requires min. 4" stiles, 6" top rail and 10" bottom rail)			· \
utt Hinge 4B81 4 ½" x 4 ½" NRP ustom WSU Handles, Coordinate with Owner ush Bar 147 x 4 134 Mount at loose ends loser 7101 BC SCS Stop x DPPA-BS-NFB	26D 32D 689	PBB TBD Don Jo PDQ	
Rim Panic w/ Pull Trim [Lock / Unlock] + Closer Stop Requires min. 4" stiles, 6" top rail and 10" bottom rail)			کر کر
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		DOOR	SIZE			D	OOR		ТҮРЕ	
NUMBER	ROOM NAME	WIDTH	HEIGHT	HDWE. SET	ТҮРЕ	MATERIAL	FINISH	GLASS	THRESHOLD TY	MATEDIAL
Level 1										-
107.2	LOUNGE	6' - 0"	7' - 0"	1	GLS- 2	ALUM	PFN	GL-2	PER MNF.	AL
121.9	VESTIBULE	3' - 0"	7' - 0"	2	GLS- 1	ALUM	PFN	GL-1	PER MNF.	AL

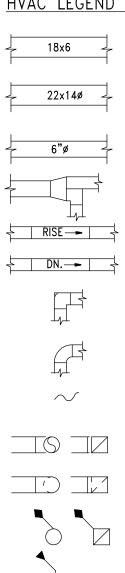




ADDEVIATIONS

ACCU	AIR CONDITIONING CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ASR	AUTOMATIC SPRINKLER RISER
BTU	BRITISH THERMAL UNIT
сс	COOLING COIL
CF	CENTRIFUGAL FAN
CFM	CUBIC FEET PER MINUTE
CONT	CONTINUATION
DDC	DIRECT DIGITAL CONTROL
DET	DETAIL
DIA	DIAMETER
DN.	DOWN
DWG.	DRAWING
EA	EXHAUST AIR
EF	EXHAUST FAN
ELEV.	ELEVATION
EX.	EXISTING
EXH	EXHAUST
EXIST	EXISTING
FLR FT.	FLOOR FEET
IN	INCHES
INV	INVERT
LAT	LEAVING AIR TEMPERATURE
MAX.	MAXIMUM
мвн	1000 BTU/HR
MECH	MECHANICAL
MIN.	MINIMUM
MISC	MISCELLANEOUS

NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM.	NOMINAL
OA	OUTSIDE AIR
RA	RETURN AIR
RET	RETURN
RF	RETURN FAN
REL	RELOCATED
REB	REBALANCE
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SPR	SPRINKLER
SPR/STP	SPRINKLER STANDPIPE
TP	TOTAL PRESSURE
TYP	TYPICAL
	UNIT HEATER
UON	UNLESS OTHERWISE NOTE
001	SHEEDS OTHERWISE NOTED





MECHANICAL SPECIFICATION

MECHANICAL MATERIALS, METHODS AND EXECUTION WORK INCLUDED:

WORK INCLUDED:

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. 2. FIRE PROTECTION.

DEFINITIONS:

- "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.

EXAMINATION OF SITE:

- 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 С. ORDER TO MEET THE DESIGN INTENT OF THE CONTRACT DOCUMENTS OR SATISFY CODE REQUIREMENTS.
- COORDINATION WITH OTHER TRADES: 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 BE CONSIDERED EXTRA WORK.

- 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. SHOP DRAWINGS
- 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 R 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.

CUTTING AND PATCHING:

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 Β. 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.
- C. 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.

HVAC LEGEND & SYMBOLS

INDICATES RECTANGULAR DUCT WITH DUCT SIZE 18 INCHES WIDE (IN PLANE OF DRAWING) AND 6 INCHES DEEP. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT UNLESS OTHERWISE NOTED.

INDICATES FLAT OVAL DUCT WITH DUCT SIZE 22 INCHES WIDE (IN PLANE OF DRAWING) AND 14 INCHES DEEP. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT UNLESS OTHERWISE NOTED. INDICATES ROUND DUCT WITH DUCT SIZE OF 6 INCHES IN DIAMETER. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT

(FROM DUCT ORIGIN AT TAP TO END OF DUCT) UNLESS OTHERWISE NOTED. VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF

INCLINED RISE IN RESPECT TO AIR FLOW

INCLINED DROP IN RESPECT TO AIR FLOW

VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES)

VANED ELBOW (SHORT RADIUS)

INDICATES FLEXIBLE DUCT (RUNOUT) OF SIZE AS SCHEDULED OR SHOWN. LENGTH SHALL NOT EXCEED 5 FT.

DUCT TURNING UP	MD	VOLUME CONTROL DAMPER (MANUAL)
DUCT TURNING DOWN		FLEXIBLE CONNECTION OR FLEXIBLE DUCT CONNECTOR
VERTICAL FIRE DAMPER	M	MOTORIZED DAMPER
	C	COMBINATION FIRE AND SMOKE DAMPER
IORIZONTAL FIRE DAMPER		RF SHEILDING DAMPER
OINT OF NEW CONNECTION	T	THERMOSTAT
	S	TEMPERATURE SENSOR
UCT SMOKE DETECTOR		

ITEM TO BE REMOVED

SUPPLY AIR DIFFUSER

RETURN AIR GRILLE

ELECTRICAL WORK:

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

CLEANING AND FINISHING A. 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.

GUARANTEE 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

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

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.

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".

LOW PRESSURE DUCTWORK: 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 EQUAL.

FLEXIBLE CONNECTIONS: 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. WHERE BUILDING CONSTRUCTION DOES NOT PERMIT A LONG RADIUS ELBOW OR TURN OR IF SHOWN ON THE CONTRACT DOCUMENTS, ACOUSTICAL TURNING VANES AND DEFLECTORS SHALL BE

GENERAL HVAC NOTES:

INTERFERENCES.

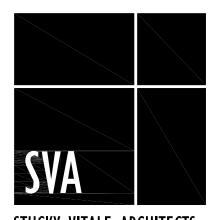
THE FOLLOWING NOTES APPLY TO ALL HVAC DRAWINGS, EXCEPT WHERE OTHERWISE INDICATED.

- 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
- 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 SHEET INDE
M000	MECHANICAL SYMBOLS LIST, INDEX, NOTES & SPECIF
M100	DEMOLITION & NEW WORK HVAC PLANS & DETAILS
	MANDA

MECHANICAL SHEET INDEX

ANICAL SYMBOLS LIST, INDEX, NOTES & SPECIFICATIONS



STUCKY VITALE ARCHITECTS 27172 WOODWARD AVENUE ROYAL OAK, MI 48067-0925 P. 248.546.6700

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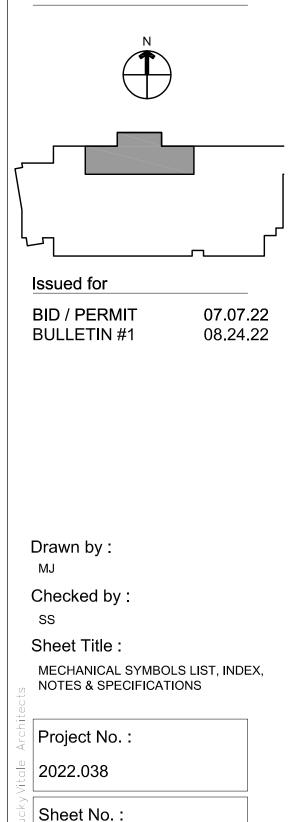
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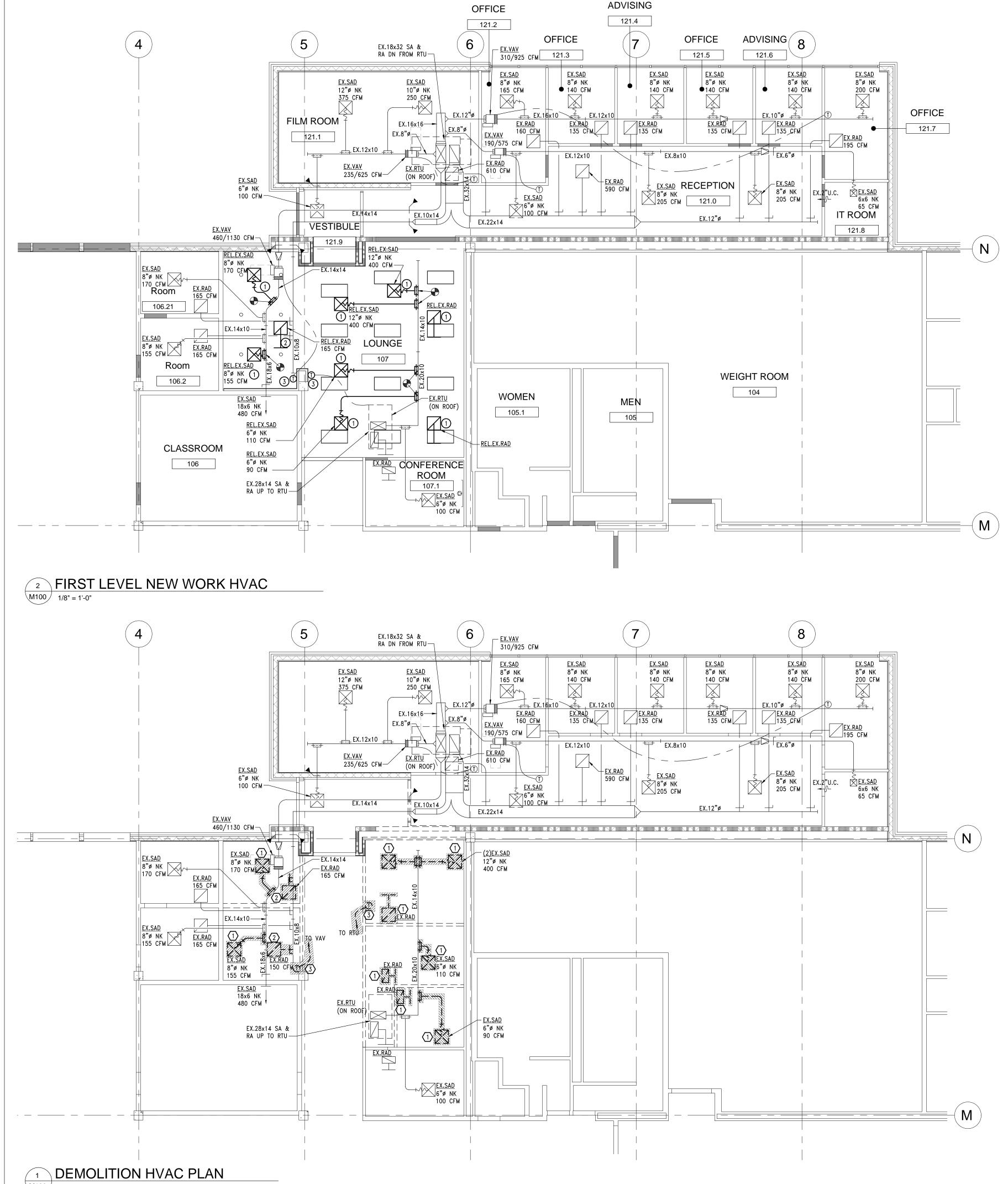


Project :

MATTHAEI ACADEMIC RESOURCE CENTER RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202





9:55am . 2022 Jul 07 Thu, dwg New MECH D\MECH\81520-M100 Ř σ Ð <u>ه</u> Matth AD\FILES\81\81520-WSSU H:\AC

M100 1/8" = 1'-0"

NEW WORK HVAC KEY NOTES:

- (1) EXISTING RELOCATED SUPPLY AIR DIFFUSER/RETURN AIR GRILLE.
- (2) EXISTING RELOCATED RETURN AIR GRILLE WITH NEW BOOT. 3 EXISTING RELOCATED THERMOSTAT. EXTEND WIRING TO THIS

GENERAL HVAC NOTES:

LOCATION.

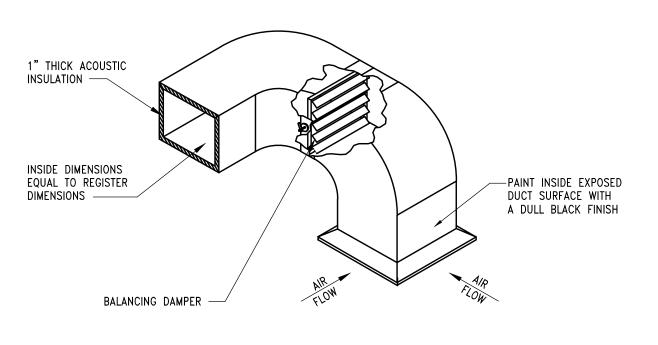
A. COORDINATE ALL WORK WITH OTHER TRADES.

DEMOLITION HVAC KEY NOTES:

- (1) REMOVE, CLEAN AND RELOCATE EXISTING AIR DIFFUSER/RETURN AIR GRILLE. AND ALL ASSOCIATED DUCT WORK. PREPARE BRANCH DUCT TO ACCEPT NEW CONNECTION.
- 2 REMOVE, CLEAN AND RELOCATE EXISTING RETURN AIR GRILLE. REMOVE AND LEGALLY DISCARD ASSOCIATED DUCTWORK TO MAIN BRANCH.
- 3 REMOVE, CLEAN AND RELOCATE EXISTING THERMOSTAT. EXTEND WIRING AS NECESSARY TO ACCOMMODATE NEW LOCATION.

GENERAL HVAC NOTES:

A. COORDINATE ALL WORK WITH OTHER TRADES.



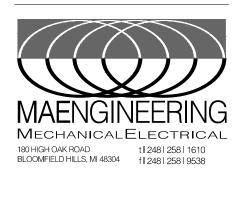




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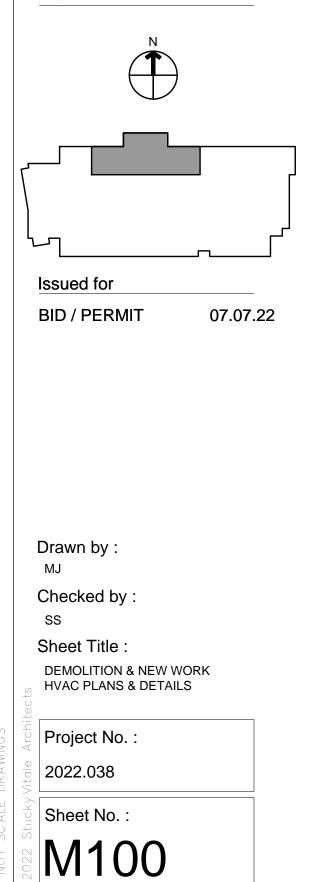
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Project :

MATTHAEI ACADEMIC **RESOURCE CENTER** RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202





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DEMOLITION POWER PLAN

<u>KEY NOTES :</u>

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

2 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.

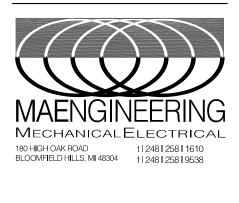


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ELECTRICAL SPECIFICATIONS:

ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL LOCAL AND STATE AUTHORITIES HAVING JURISDICTION THEREOF.

ALL EQUIPMENT SHALL BE SPECIFICATION GRADE AND SHALL HAVE U.L. LABEL FOR INTENDED USE. ELECTRICAL SYSTEMS SHALL BE COMPLETE IN EVERY DETAIL, INCLUDING ALL INCIDENTAL ITEMS FOR A

PROPER AND FUNCTIONING INSTALLATION SUBJECT TO FINAL APPROVAL OF ARCHITECT/ENGINEER. ALL REQUIRED PERMIT AND INSPECTIONS SHALL BE OBTAINED BY CONTRACTOR AND SUCH COSTS SHALL BE INCLUDED IN BID PRICE FOR THIS WORK.

PROVIDE UL LISTED SYSTEM FOR FIRE STOPPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. PROVIDE SYSTEM WITH EQUAL OR GREATER RATING THAN ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR RATINGS AND LOCATIONS OF ASSEMBLIES.

EXAMINATION OF SITE IS MANDATORY. CONTRACTOR IS HEREBY HELD TO HAVE EXAMINED THE SITE AND HAVE INCLUDED IN HIS BID PRICE ALL COSTS DUE TO SITE AND FIELD CONDITIONS.

COMPLETE IDENTIFICATION OF PROJECT ELECTRICAL COMPONENTS IS REQUIRED. IDENTIFY ALL PANELS, DISCONNECTS, CONTROL DEVICES, ETC., WITH THE NOMENCLATURE INDICATED ON THE DOCUMENTS AND WITH POWER SOURCE AND ELECTRICAL RATINGS USING PLASTIC LAMINATE NAMEPLATE. INSTALL TYPEWRITTEN DIRECTORIES OF ALL CIRCUITS ON INSIDE OF PANELS. IDENTIFY WIRING DEVICE COVERPLATES WITH PANELBOARD AND BRANCH CIRCUIT NUMBER SERVING DEVICE, E.G. "A-15". PROVIDE ¼" MACHINE-WRITTEN BLACK LETTERING ON CLEAR PLASTIC ADHESIVE TAPE. LOCATE ON BOTTOM FRONT OF COVERPLATE, CENTERED BELOW WIRING DEVICE(S). SUBMIT SAMPLE OF LABELED TAPE WITH WIRING DEVICE/COVERPLATE SUBMITTAL. SAMPLE MAY BE ADHERED TO PAPERWORK IN SUBMITTAL, RATHER THAN TO A COVERPLATE.

PROVIDE TEMPORARY POWER AND LIGHTING DURING CONSTRUCTION. REMOVE TEMPORARY WIRING UPON COMPLETION OF THE PROJECT. TEMPORARY SERVICES SHALL BE AS REQUIRED, BY N.E.C. AND OSHA. CONTRACTOR IS RESPONSIBLE TO MEET WITH UTILITY TO FOR TEMPORARY POWER PROVISION AND ALL REQUIRED SKID UNITS.

GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT THE ELECTRICAL SYSTEM. INSTALL EQUIPMENT GROUNDING CONDUCTOR WITH EVERY CIRCUIT.

COORDINATE SIZE AND LOCATION OF ANY REQUIRED ACCESS PANELS IN WALLS OR FINISHED CEILINGS WITH ARCHITECT PRIOR TO INSTALLATION.

WARRANT UNLESS A LONGER PERIOD IS SPECIFIED IN INDIVIDUAL PARAGRAPHS, PROVIDE A MINIMUM OF ONE YEAR WARRANTY ON ALL ELECTRICAL WORK BEGINNING THE DATE OF FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER.

<u>SUBMITTALS:</u> SUBMIT SHOP DRAWINGS FOR ALL MAJOR COMPONENTS OR SYSTEMS OF THE PROJECT. SUBMIT ADDITIONAL SHOP DRAWINGS IF REQUESTED BY ENGINEER.

NO APPARATUS OR EQUIPMENT SHALL BE SHIPPED FROM STOCK OR FABRICATED UNTIL ITS SHOP DRAWINGS HAVE BEEN STAMPED 'REVIEWED" OR "APPROVED AS NOTED". SUBMIT DATA REQUIRED FOR TRANSFORMERS SUCH AS EFFICIENCY, REGULATION, CORE LOSS AND SOUND LEVELS. (SEE APPLICABLE SECTIONS).

SUBMIT SYSTEM COMPONENTS, PRODUCT DATA AND SHOP DRAWINGS COMPLETE FOR EACH SYSTEM UNDER ONE SUBMITTAL. DO NOT BREAK OUT EQUIPMENT FOR ONE SYSTEM BETWEEN MULTIPLE SUBMITTALS.

ALL SHOP DRAWINGS MUST BE CLEARLY MARKED TO SHOW EQUIPMENT SUBMITTED AND ANY DEVIATIONS FROM SPECIFICATIONS SHALL BE NOTED THEREON. DO NOT INCLUDE ONLY MODEL NUMBERS TO INDICATE SUBMITTED EQUIPMENT. STRIKE OUT ANY INFORMATION ON PRODUCT DATA THAT IS NOT PROJECT SPECIFIC, AND EDIT RELEVANT INFORMATION TO SHOW ACTUAL EQUIPMENT SUBMITTED. ELECTRICAL CONTRACTOR MUST SIGN AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. UNIQUELY NUMBER EACH PAGE IN SUBMITTAL.

IF DIFFERENT SYSTEMS ARE INCLUDED IN ONE SUBMITTAL, CLEARLY SEPARATE INFORMATION AND PROVIDE DIFFERENT SUB-NUMBERING OF SYSTEMS. SHOP DRAWINGS THAT ARE INCOMPLETE, UNSIGNED AND NOT PLAINLY MARKED WILL NOT BE REVIEWED.

DEMOLITION AND RENOVATION WORK:

DISCONNECT, REMOVE, RELOCATE, REWIRE OR DISPOSE OF ANY EQUIPMENT INTERFERING WITH NEW CONSTRUCTION OR AFFECTED BY RENOVATION WORK.

ANY ELECTRICAL EQUIPMENT OR SYSTEMS WHICH ARE TO REMAIN, AND ARE AFFECTED BY THIS WORK, SHALL BE IMMEDIATELY RESTORED TO FULL OPERATING CONDITION AND AT NO ADDITIONAL COST TO THE CONTRACT.

EQUIPMENT REMOVED SHALL BE DISPOSED OF AS DIRECTED, EITHER TO STORAGE OR OFF THE PREMISES.

WHERE SERVICES OR CIRCUITS ARE DISCONNECTED OR DISCONTINUED, IT IS MANDATORY THAT ANY EXISTING UNUSED WIRING BE REMOVED TO THE SOURCE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. IT IS THE INTENT OF THIS ARTICLE TO PERMANENTLY DISCONNECT ALL UNUSED CIRCUITS AT THE MAIN SOURCE WHENEVER POSSIBLE. NO ENERGIZED CIRCUIT SHALL BE TAPED AND ABANDONED IN OUTLET BOXES UNLESS SO SPECIFIED ON DRAWINGS.

CIRCUIT TRACE EXISTING TO REMAIN CIRCUITS AS NECESSARY FOR PROPER IDENTIFICATION, AND AS REQUIRED TO PERFORM AND DOCUMENT WORK.

REMODELING WORK INVOLVING EXISTING BRANCH CIRCUIT PANELBOARD SHALL BE SUCH THAT, WHEN ALL WORK IS COMPLETED EXISTING PANELS ARE PROVIDED WITH NEW AND UPDATED ACCURATE DIRECTORIES. ALL VACATED CIRCUITS SHALL BE MARKED SPARE. WHEN NEW BREAKERS ARE REQUIRED. THEY SHALL BE INSTALLED IN EXISTING SPACES AND SHALL MATCH THOSE THAT ARE EXISTING. PROVIDE NEW PANELS IF REQUIRED AND WHERE INDICATED.

CONTRACTOR MAY USE EXISTING CONDUITS AND OUTLET BOXES, PROVIDED THEY ARE IN GOOD ELECTRICAL CONDITION AND THE INSTALLATION IS APPROVED BY THE AHJ. RE-SUPPORT EXISTING TO REMAIN CONDUIT AND BOXES IN RENOVATION AREA IF INADEQUATELY SUPPORTED. PROVIDE SUPPORT AS REQUIRED TO COMPLY WITH NEC AND AHJ REQUIREMENTS.

IT IS THE INTENT OF THE OVERALL DESIGN TO CONCEAL ALL WORK EXCEPT IN UNFINISHED AREAS. CUT AND PATCH EXISTING SURFACES AS REQUIRED FOR A CONCEALED INSTALLATION.

ALL ELECTRICAL OPENINGS THAT ARE ABANDONED IN WALLS, CEILINGS OR FLOOR SHALL BE PROVIDED WITH SUITABLE BLANK COVER PLATES. ABANDONED FLOOR OUTLETS AND PENETRATIONS SHALL BE FILLED TO MATCH EXISTING SURROUNDING CONDITIONS.

CONDUITS AND OTHER PARTS OF ELECTRICAL SYSTEMS THAT BECOME EXPOSED AS A PART OF NEW WORK SHALL BE REMOVED AS REQUIRED TO A POINT WHERE THE ABANDONED PORTION IS TOTALLY CONCEALED.

ALL SURFACES DAMAGED BY THIS CONTRACTOR IN THE COURSE OF PERFORMING WORK SHALL BE RESTORED TO SATISFACTORY CONDITION, AS DIRECTED BY THE ARCHITECT AND ALL COSTS OF REPAIRS SHALL BE PAID FOR BY THE CONTRACTOR

REMOVE SERVICE TO MECHANICAL, ELECTRICAL AND BUILDING EQUIPMENT SPECIFIED AND/OR INDICATED AS REMOVED OR DISCONNECTED. MAINTAIN CIRCUITS TO EXISTING-TO-REMAIN EQUIPMENT. IDENTIFY UNUSED, REMOVED CIRCUITS ON PANEL SCHEDULE AS SPARE. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXISTING TO REMAIN EQUIPMENT AND FOR DEMOLITION WORK.

SERVICE SHUTDOWN AND POWER OUTAGES SHALL BE SCHEDULED WITH THE OWNER PRIOR TO PERFORMING ANY WORK ON EXISTING SERVICE. SCHEDULE SHALL BE PROVIDED IN WRITING 72 HOURS IN ADVANCE AND SHALL SHOW A DETAILED DESCRIPTION OF THE PROPOSED WORK AND THE DURATION OF OUTAGE.

PROVIDE LUMINAIRE DISCONNECTING MEANS PER LIGHTING SPECIFICATIONS.

ELECTRIC SERVICE TO THE SITE IS EXISTING AND SHALL BE UTILIZED AS INDICATED ON THE DRAWINGS.

ELECTRICAL EQUIPMENT AND DEVICES:

MINI POWER ZONE (MLC) SHALL BE COMBINATION OF 15KVA 115 DEGREE C RISE ENCAPSULATED TRANSFORMER, 480V INPUT, 208/120V-3PH-4W OUTPUT, 40A-3P MAIN PRIMARY CIRCUIT BREAKER, 60A-3P MAIN SECONDARY BREAKER AND BRANCH BREAKERS AS INDICATED.

MANUFACTURERS: GE, EATON, SIEMENS, SQUARE D, OR APPROVED EQUAL. PROVIDE GROUNDING OF TRANSFORMERS AS SEPARATELY DERIVED SOURCES PER NEC ARTICLE 250.30. INCLUDE INSULATION CLASS IN SUBMITTAL INFORMATION.

RECEPTACLES SHALL BE SPECIFICATION GRADE, GROUNDING TYPE, 2-POLE, 3-WIR RECEPTACLES IN GENERAL SHALL BE 20A, 125 V., HUBBELL #HBL5362 OR EQUA IN OFFICES AREAS AND 48" AFF IN SHOP AREAS EXCEPT AT COUNTERS WHERE ABOVE COUNTER AND IN TOILET ROOMS AT 48" AFF. RECEPTACLES ON SINGLE 20 AMPERES, HUBBELL #HBL5362. HIGH AMPERE RATINGS AND VOLTAGES ARE IN DRAWINGS.

RECEPTACLES DESIGNATED "GFR" SHALL BE GROUND FAULT RECEPTACLES, SIMILAR TO HUBBELL #GF-5362. FOR OUTDOOR OR WET LOCATIONS, PROVIDE WEATHERPROOF BOX AND GASKETED COVER PLATE. WIRE 'GFR' RECEPTACLES FOR SELF PROTECTION AND NOT DOWNSTREAM PROTECTION OF OTHER WIRING DEVICES.

SWITCHES SHALL BE SINGLE POLE, TWO POLE, OR THREE-WAY, AS INDICATED, TOGGLE TYPE, 20A, 120/277V., QUIET TYPE, HUBBELL #1221/1222/1223 OR APPROVED EQUAL. PILOT TYPE SWITCHES HUBBELL #1251.

DEVICE COVER PLATES SHALL BE OF TYPE AND NUMBER OF GANGS FOR DEVICES INSTALLED, SMOOTH EDGED 302/304 GRADE BRUSHED STAINLESS STEEL. PROVIDE BRANCH CIRCUIT IDENTIFICATION ON ALL COVERPLATES AS SPECIFIED UNDER "GENERAL REQUIREMENTS". COVERPLATES FOR DEVICES CONNECTED TO THE EMERGENCY SYSTEM SHALL ALSO BE FACTORY LABELED WITH BLACK LETTERING TO READ "EMERGENCY".

CONDUCTORS:

ALL CONDUCTORS SHALL BE SOFT-DRAWN COPPER OF SIZES INDICATED ON THE DRAWINGS. ALL CONDUCTORS SHALL BE INSULATED FOR 600 VOLTS AND WITH 90 DEGREES (CENTIGRADE) CODE GRADE INSULATION.

CONDUCTORS SIZED #10 AND SMALLER SHALL BE SOLID. ALL CONDUCTORS LARGER THAN #10 SHALL BE MADE UP OF STRANDED SINGLE CONDUCTOR CABLE. CONDUCTORS SHALL HAVE THWN OR THHN INSULATION AS APPLICABLE. CONDUCTORS IN UNDERGROUND CONDUIT AND FOR SERVICE ENTRANCE CONDUCTOR SHALL HAVE XHHW OR THWN INSULATION.

#12 AWG SHALL BE THE MINIMUM WIRE SIZE ALLOWED EXCEPT #14 AWG MAY BE USED FOR CONTROL WIRING.

TYPICAL BRANCH CIRCUITS FROM 20A, 1-POLE BRANCH OVERRCURRENT DEVICES ARE 1/2"C, 2#12 AND 1#12G.

PANELBOARDS:

MAIN DISTRIBUTION PANELS SHALL BE AS SHOWN ON DRAWINGS, BRACED FOR 35,000 A.I.C. MINIMUM, DEAD FRONT CONSTRUCTION. VOLTAGE, PHASE, AMPERE RATING, AND DEVICES SHALL BE AS INDICATED ON THE DRAWINGS.

LIGHTING PANELS SHALL BE OF VOLTAGE, PHASE, SERVICE AND NUMBER OF WIRES INDICATED ON THE DRAWINGS. BREAKERS SHALL BE THERMAL MAGNETIC, TRIP FREE, SINGLE OR MULTIPOLE, BOLTED DESIGN. MOLDED CASE. MINIMUM 10,000 A.I.C. AT 240 VOLTS OR 14,000 A.I.C. AT 277 VOLTS. DEVICES SHALL BE AS INDICATED ON THE DRAWINGS OR AS SCHEDULED.

LIGHTING PANELS RATED FOR 277/480V, 3-PHASE, 4W SERVICE SHALL BE SQUARE D TYPE "NF" OR EQUAL, AND THOSE RATED FOR 120/208V, 3-PHASE, 4-WIRE SERVICE SHALL BE SQUARE D TYPE "NQOD" OR EQUAL. LOAD CENTERS ARE NOT PERMITTED.

CONTRACTOR, MANUFACTURER MAY RE-ARRANGE CIRCUIT ORDER IN PANELS, HOWEVER CIRCUIT NUMBERS FROM PANELBOARD SCHEDULES IN CONTRACT DOCUMENTS MUST BE INDICATED ON ANY SUBMITTED PANELBOARD ELEVATIONS, DRAWINGS, TABLES AND SCHEDULES.

INSTALLATION AND METHODS OF EXECUTION:

ALL WIRING SHALL BE IN CONDUIT, MINIMUM ½". FLEXIBLE METAL CONDUIT SHALL BE USED FOR SHORT CONNECTION TO MOTORS, FINAL CONNECTION TO RECESSED LIGHTING FIXTURES FROM RIGIDLY MOUNTED OUTLET BOX (NOT BETWEEN FIXTURES), VIBRATING EQUIPMENT, ETC., BUT NEVER LONGER THAN 6 FEET. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR ALL APPLICATIONS EXPOSED TO WATER OR WEATHER. PROVIDE ANTI-SHORT BUSHINGS FOR ALL FLEXIBLE CONDUIT ARMOR TERMINATIONS. PROVIDE SEPARATE EQUIPMENT GROUND WIRE IN ALL CONDUIT RUNS.

CONDUIT CONCEALED IN CEILING, WALLS OR FURRED SPACES OR EXPOSED IN DRY LOCATIONS SHALL BE EMT, THIN WALL ELECTRIC METALLIC TUBING. CONDUIT EXPOSED TO WEATHER, IN CONTACT WITH CONCRETE. BURIED IN SLAB. OR IN HAZARDOUS AREAS, SHALL BE HEAVY WALL, RIGID. ALL CONDUITS SHALL BE HOT DIPPED GALVANIZED STEEL.

ALL WORK IN HAZARDOUS LOCATIONS SHALL BE DONE IN STRICT CONFORMANCE WITH NEC ARTICLE

PLASTIC CONDUIT, PVC-40, SHALL BE USED ONLY AS INDICATED ON THE DRAWINGS. PLASTIC CONDUIT SHALL BE APPROVED FOR UNDERGROUND USE. PVC BURIAL DEPTH SHALL BE 36" MINIMUM BELOW FINISH GRADE. IN PVC CONDUIT SYSTEMS, RISERS ABOVEGROUND SHALL BE RIGID HEAVY WALL STEEL.

CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. EXACT ROUTING OF CONDUIT RUNS SHALL SUIT JOB CONDITIONS. EXPOSED CONDUIT SHALL BE RUN ONLY IN UNFINISHED AREAS SUBJECT TO FINAL APPROVAL OF ENGINEER AND SHALL RUN PARALLEL TO BUILDING LINES, NEVER DIAGONALLY.

CONNECTION TO EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SHOP AND INSTALLATION DRAWINGS. REQUIREMENTS GENERALLY VARY FROM ONE MANUFACTURER TO ANOTHER AND CONTRACTOR IS BOUND TO COMPLY AND PROVIDE ALL WORK AS REQUIRED ALTHOUGH CERTAIN DISCREPANCIES MAY EXIST REGARDING THE REQUIREMENT FROM ONE MANUFACTURER TO ANOTHER.

PROVIDE POWER WIRING, DISCONNECTS, AND PROTECTION DEVICES TO ALL MECHANICAL EQUIPMENT AND MAKE FINAL CONNECTIONS, INCLUDING TESTING OF MOTORS FOR PROPER ROTATION.

OUTLET BOXES MAY-BE SURFACE MOUNTED ON EXISTING WALLS (CMU, BRICK OR CONCRETE) WITH SMALLEST SURFACE RACEWAY AS REQUIRED FOR WIRING INSTALLED. PROVIDE FLUSH OUTLET BOXES AND CONDUIT AT NEW CONSTRUCTION WALL AND AT EXISTING WALLS WHICH ARE NOT CMU BRICK OR CONCRETE CONSTRUCTION. CUT AND PATCH EXISTING WALLS AS REQUIRED FOR FLUSH INSTALLATION.

ALL WIRING LOCATED ABOVE THE SUSPENDED CEILING MUST BE SUPPORTED INDEPENDENTLY OF THE SUPPORT WIRES FOR THE SUSPENDED CEILING. OUTLET BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALLS OR PARTITIONS SHALL BE SEPARATED

BY A HORIZONTAL DISTANCE OF TWENTY FOUR (24) INCHES. PROVIDE PROPER WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT AS REQUIRED PER NEC.

LIGHTING SPECIFICATIONS:

LED LIGHTING FIXTURES SHALL HAVE 5 YEAR WARRANTY, A COLOR RENDERING INDEX OF 90 OR HIGHER, 3500K COLOR TEMPERATURE UNLESS OTHERWISE INDICATED ON DRAWINGS, LIFETIME: 50,000 HOURS OR GREATER AND MAINTAIN AT LEAST 70% OF INITIAL LUMEN OUTPUT. RATED FOR OUTDOOR USE AND WET LOCATION, IF IN OPEN FIXTURE.

SHALL POSSESS COLOR MANAGEMENT SYSTEM TO MAINTAIN COLOR CONSISTENCY OVER TIME AND TEMPERATURE OF NO GREATER THAN ±100K OVER LIFE.

REFER TO LIGHTING FIXTURE SCHEDULE ON ARCHITECTURAL REFLECTED CEILING PLANS FOR LED FIXTURES WITH DIMMING CONTROLS.

LED DRIVERS TO BE ELECTRONIC, HIGH POWER FACTOR, MIN. 0.9; UNIVERSAL VOLTAGE 120-277V; 5 YEAR WARRANTY, COMPATIBLE WITH THE LED LAMP OR MODULE USED.

8 55a

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ELECTRICAL LEGEND *

RE, AND POLARIZED.	
L MOUNTED 16" AFF	
THEY SHALL BE 6"	
CIRCUIT SHALL BE	
DICATED ON	

29 + 29			
"A"	FIXTURE TYPE 1x4 LIGHT FIXTURE		
	POLE MOUNTED LIGHTING FIXTURE STRIP LIGHTING FIXTURE		
	2'X2' OR 2'X4' LIGHTING FIXTURE		
	FULL SHADED LIGHTING FIXTURES ARE WIRED UNSWITCHED NIGHT LIGHTS		
	HALF SHADED FIXTURES ARE FIXTURES PROVIDED WITH BUILT-IN		
	EMERGENCY BATTERY PACK FOR EGRESS LIGHTING RECESSED DOWN LIGHT		
	WALL MOUNTED LIGHTING FIXTURE		
	TRACK LIGHTING FIXTURE		
	EXIT LIGHTING FIXTURE – SHADING INDICATES ILLUMINATED		
<u>∞</u> ⊗	FACE (S) CHEVRONS AS INDICATED		
	EMERGENCY LIGHTING UNIT		
	COMBINATION OF EXIST AND EMERGENCY LIGHTING UNIT		
S	SINGLE POLE LIGHT SWITCH		
S3	THREE WAY LIGHT SWITCH		
S4	FOUR WAY LIGHT SWITCH		
SK	KEY OPERATED SWITCH		
Sp	LIGHT SWITCH WITH PILOT LIGHT		
Sp3	THREE WAY LIGHT SWITCH WITH PILOT LIGHT		
So	DIMMER SWITCH, COMPATIBLE WITH LIGHTS CONTROLLED		
SMD	DIMMER SWITCH WITH WALL OCCUPANCY SENSOR (SINGLE POLE)		
SD3	THREE WAY LIGHT SWITCH WITH DIMMER		
St ST			
Slv	LOW VOLTAGE CONTROL STATION WITH DIMMING CAPABILITIES, NUMBER OF BUTTONS AS INDICATED TO PROVIDE PRESET SCENES, RISER, LOWER, ON, OFF CONTROL FOR ZONES INDICATED, COORDINATE WITH LIGHT DIMMING CONTRACTOR FOR DEVICE MODEL NUMBERS, QUANTITIES, LOCATIONS, AND ADDITIONAL REQUIREMENTS.		
RPD	RELAY PACK WITH 0-10V DIMMING OUTPUT		
	CEILING MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY (PASSIVE		
-05)-	INFRARED AND MICROPHONIC/ULTRASONIC), WITH AUXILIARY RELAY FOR HVAC CONTROL. PROVIDE QUANTITY OF 20A, 120V/277V RATED POWER PACKS AND RELAY PACKS AS REQUIRED TO CONTROL SWITCH LEGS INDICATED. ALL FIXTURES IN ROOM/SPACE ARE TO BE CONTROLLED BY THE SENSORS.		
Sw	WALL MOUNTED VACANCY SENSOR, SINGLE POLE. DUAL TECHNOLOGY (PASSIVE INFRARED AND MICROPHONICS/ULTRASONIC), 120/277V. SWITCH IS RATED 800W AT 120V AND 1200W AT 277V, 1/4 HP. IVORY WITH STAINLESS STEEL COVERPLATE. FACTORY COLOR-MATCHED PLATE IS NOT ACCEPTABLE.		
Sw2	SAME AS SM EXCEPT WITH DUAL POLE		
Φ	SINGLE RECEPTACLE		
φ	DUPLEX RECEPTACLE		
•	QUADRUPLEX RECEPTACLE		
Щ.	DUPLEX RECEPTACLE WITH GROUND FAULT (GFCI)		
GFP	FACELESS GROUND FAULT CIRCUIT INTERRUPTER		
Φc	SAME AS DUPLEX RECEPTACLE EXCEPT CEILING MOUNTED		
₽s (SAME AS DUPLEX RECEPTACLE EXCEPT SHOW WINDOW TO BE MOUNTED 6" ABOVE WINDOW, COORDINATE WITH OWNER/ ARCHITECT PRIOR TO INSTALLATION		
Ф Фн	COMBINATION DUPLEX POWER RECEPTACLE AND TWO USB PORTS SAME AS DUPLEX RECEPTACLE EXCEPT HORIZONTALLY MOUNTED		
•	SPLIT RECEPTACLES		
	FLOOR RECEPTACLE		
₽	COMMERCIAL GRADE CORD REEL WITH GFCI MOUNTED TO STEEL STRUCTURE		
P R	SPECIAL PURPOSE RECEPTACLE – NEMA TYPE SPECIAL PURPOSE RECEPTACLE – NEMA TYPE ON A CORD REEL MOUNTED TO STEEL STRUCTURE		
•	DUPLEX RECEPTACLE FLOOR MOUNTED		
	CEILING JUNCTION BOX		
H(J)	WALL JUNCTION		
	PUSH BUTTON STATION (1, 2, OR 3 BUTTON)		
	DOOR ACTIVATOR PUSH PLATE		
- EFF - OCH	ELECTRIC CLOCK OUTLET		
∇	COMBINATION DATA AND TELEPHONE OUTLET UNLESS OTHERWISE		
▼	PHONE OUTLET SAME AS COMBINATION VOICE/DATA (W: WALL MOUNTED AT +48") NOTED PROVIDE DOUBLE GANG BOX WITH SINGLE MUD RING AND 3/4"C UP		
\Box	DATA OUTLET TO CEILING SPACE		
TV	TELEVISION OUTLET, DOUBLE GANG BOX WITH SINGLE MUD RING AND 1"C TO CEILING SPACE		
AV	AUDIO/VIDEO OUTLET, DOUBLE GANG BACK BOX WITH 1 1/4"C TO ABOVE ACCESSIBLE CEILING, TERMINATE CONDUIT WITH INSULATING BUSHING, PROVIDE PULL STRING		
$\bigoplus \mathbf{V} \mathbf{AV}$	FLOOR MOUNTED THREE GANG (3G) FLUSH BOX, DUPLEX RECEPTACLE, A/V & DATA/PHONE COMPARTMENTS		
\mathbb{Q}	DUPLEX RECEPTACLE & DATA/PHONE FLUSH FLOOR MOUNTED TWO GANG (2G) COMPLETE WITH FLANGE AND COVER		
c ⊕ ∇	CEILING MOUNTED TWO GANG (2G) FLUSH BOX, DUPLEX RECEPTACLE & DATA/PHONE COMPARTMENTS		
	MULTI-SERVICE STAMPED STEEL FLUSH FLOOR BOX - TYPE F1 -		
F1	WITH (2)-20A DUPLEX RECEPTACLES & (2) DATA COMPARTMENT, WIREMOLD #RFB4 SERIES OR APPROVED EQUAL BY HUBBELL		
	MULTI-SERVICE STAMPED STEEL FLUSH FLOOR POKE-THROUGH BOX		
F2	- TYPE F2 - WITH (2)-20A DUPLEX RECEPTACLES & (2) DATA COMPARTMENT, WIREMOLD OR APPROVED EQUAL BY HUBBELL.		
PD	FLOOR MOUNTED TWO GANG (2G) FLUSH BOX WITH SEPARATE POWER AND DATA COMPARTMENTS FOR FURNITURE CONNECTION		
PO	FIRE RATED FLUSH FLOOR POKE THRU WITH SEPARATE POWER AND DATA COMPARTMENTS FOR FURNITURE CONNECTION SIMILAR TO LEGRAND 4FFATC.		

	FIRE RATED FLUSH FLOOR POKE	THRU WIT	H DUPLEX OR QUAD RECEPTACLE
	& LOW VOLTAGE COMPARTMENTS	SIMILAR	TO LEGRAND RC4.
	FIRE RATED RECESSED DEEP FLO RECEPTACLE & LOW VOLTAGE CO EVOLUTION 6 SERIES.	MPARTMEN	ITS SIMILAR TO LEGRAND
H®~3 H®~3 H(I)-es	JUNCTION BOX FOR FLEXIBLE CONNECTION TO SYSTEMS (P: POWER, D: DATA). FURNITURE WHIP PROVIDED BY FURNITURE SUPPLIER. FOR NEW WORK PROVIDE 1°C OR 1 1/4°C FOR DATA TO ABOVE ACCESSIBLE CEILING. UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE SYSTEM SUPPLIER. PROVIDE FINAL CONNECTION AND COVERPLATE SUITABLE FOR WHIP CONNECTION.		
	DISTRIBUTION PANEL		Sonable for white connection.
	SURFACE MOUNTED LIGHTING ANI)/OR RECI	EPTACLE PANEL
	RECESSED MOUNTED LIGHTING AN	ID/OR REC	CEPTACLE PANEL
СВ			E MOUNTED IN NEMA ENCLOSURE
СВ	MOLDED CASE CIRCUIT BREAKER	– Flush	MOUNTED IN NEMA ENCLOSURE
	MOTOR – SINGLE PHASE		
	MOTOR – THREE PHASE		
	MANUAL SINGLE PHASE MOTOR ST FOR MOTOR APPLICATIONS. MANU/ LIGHT, LOCKABLE OFF AND WITHO APPLICATIONS TO EQUIPMENT NOT APPLICATIONS WHERE OVERLOADS FLUSH MOUNT STARTERS / SWITC IN UNFINISHED SPACES.	AL SINGLE UT OVERLO REQUIRING ARE INTEC HES IN FI	PHASE MOTOR SWITCH WITH PILOT DADS FOR DISCONNECT G OVERLOADS AND FOR GRAL TO MOTOR-BASED LOADS.
	FUSIBLE DISCONNECT SWITCH		
	THREE PHASE COMBINATION MAG	NETIC FUS	IBLE MOTOR STARTER
	BUS PLUG FUSIBLE DISCONNECT	SWITCH	
T	TRANSFORMER		
	CONTACTOR		
	METER		
	GROUND HOMERUN TO LIGHTING PANEL		
	CABLE TRAY		
	PLUG-IN STRIP		
EF	EXHAUST FAN	EWC	ELECTRIC WATER COOLER
EDH	ELECT. DUCT HTR.	AFF	ABOVE FINISHED FLOOR
A	ABOVE COUNTER	WP	WEATHERPROOF
A/E	ARCHITECT / ENGINEER	RT	RAINTIGHT
СМ	COFFEE MAKER	UFD	UNDER FLOOR DUCT
MW	MICROWAVE	FPB	FAN POWER BOX
НОА	HAND-OFF-AUTOMATIC	DW	DISHWASHER
PC	PHOTOCELL	GD	GARBAGE DISPOSAL
HG	HOSPITAL GRADE	REF	
UHUON	UNIT HEATER UNLESS OTHERWISE NOTED	(E) (RE)	EXISTING TO REMAIN RELOCATED EXISTING
EG	EQUIPMENT GROUND	IG	ISOLATED GROUND
Н	HORIZONTALLY MOUNT 6" ABOVE	COUNTER	
GFI or GFR	GROUND FAULT CIRCUIT INTERRU	PTER	
	POWER POLE VOICE/DATA/POWER	2	
	AUDIO/VISUAL HEAD END EQUIPM		
DR	DRIVER FOR 24V UNDER CABINET	LED LIGH	ſſ
	CARD READER		
	PHOTOELECTRIC CONTROLLER		
WPS	COMBINE PARTITION SENSOR		
WAP	WIRELESS ACCESS PANEL		
PP	VIRELESS ACCESS PANEL POWER POLE VOICE/DATA/POWER		
СР	CONTROL PANEL, PROVIDE AS PA	RT OF TH	E EQUIPMENT THEY CONTROL
	TIME SWITCH		
BB	BELL		
RB	RADIO ALERT SYSTEM BELL		
DS	DOOR SWITCH		
HEPO FACP	EMERGENCY POWER OFF PUSHBU FIRE ALARM CONTROL PANEL		
	FIRE ALARM CONTROL PANEL		
	NOTIFICATION APPLIANCE CONTRO		
MC	MICROPHONE		
Ś	CEILING MOUNTED SPEAKER		
VV	VOLUME CONTROL DIAL		
	SMOKE DETECTOR		
(HD)	HEAT DETECTOR		
(TS) (FS)	TAMPER SWITCH FLOW SWITCH		
(FS) (A/V)	OUTDOOR FIRE DEPARTMENT CON	NECTION -	
	MAGNETIC DOOR HOLDER		AUDIO HOUME DEVICE
	DUCT SMOKE DETECTOR		
<u>(</u>)	COMBINATION SMOKE/CO DETECTOR		
F	MANUAL FIRE ALARM STATION		
F	FIRE ALARM STROBE		
	FIRE ALARM HORN/STROBE		
-€-	FIRE ALARM HORN/STROBE - CE	ILING MOU	INTED
-¢-,s	FIRE ALARM STROBE - CEILING I	NOUNTED	
✤ THIS IS STA	NDARD SYMBOL LIST - SC	DME OF	THESE SYMBOL MAY
NUT APPEAR	ON DRAWINGS.		

LECTRIC WATER COOLER
BOVE FINISHED FLOOR
EATHERPROOF
AINTIGHT
NDER FLOOR DUCT
AN POWER BOX
ISHWASHER

ARBAGE DISPOSAL
EFRIGERATOR
KISTING TO REMAIN
ELOCATED EXISTING

01	ATED	GROUND
K	SPLAS	SH

	ELECTRICAL SHEET INDEX
SHEET	DESCRIPTION
E001	ELECTRICAL LEGEND, SHEET INDEX, SPECIFICATION AND DETAILS

DEMOLITION PLANS ED100 E100 ELECTRICAL PLANS

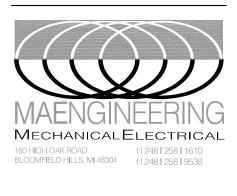


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Seal:



Project :

MATTHAEI ACADEMIC **RESOURCE CENTER** RENOVATION

5101 John C Lodge Fwy, Detroit, MI 48202

Key Plan:

Issued for **BID / PERMIT**

07.07.22

Drawn by : SM

Checked by : MJM

Sheet Title : ELECTRICAL LEGEND, SHEET INDEX AND SPECIFICATION

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8:56am 1 2022 Jul 07 Thu, δ б Ne CAD\ELEC\81520-E100 atio Re σ Ð H:\ACAD\FILES\81\81520-WSSU Matth <u>KEY NOTES :</u>

- 1 PROVIDE SEPARATE 20A-120V-1P CIRCUIT FROM NEAREST AVAILABLE PANEL. VERIFY PANEL LOCATION.
- $\langle 2 \rangle$ connect to building fire alarm system per building fire alarm system vendor's direction.
- 3 FIRE CURTAIN, PROVIDE SEPARATE (1)20A-120V-1P LIFE SAFETY CIRCUIT FROM NEAREST AVAILABLE SOURCE. VERIFY SOURCE LOCATION IN FIELD.
- $\langle \mathbf{4} \rangle$ connect to existing lighting circuit.
- $\langle 5 \rangle$ rework switching as indicated.
- 6 PROVIDE EXIT LIGHT FIXTURE TO MATCH EXISTING-VERIFY INFIELD. CONNECT TO NEAREST AVAILABLE LIFE SAFETY LIGHTING CIRCUIT.
- RECESSED 6" DIAMETER LED DOWNLIGHT WITH LENS, 2000 LUMENS, 3500°K, 80CRI, 0-10V DIMMING, MULTI-VOLT DRIVER. GOTHAM EVO-6 OR APPROVED EQUAL.



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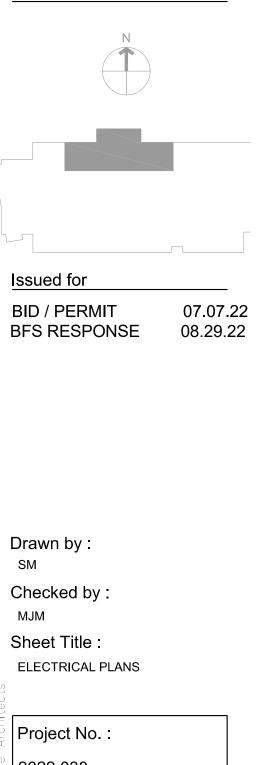


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2022.038

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