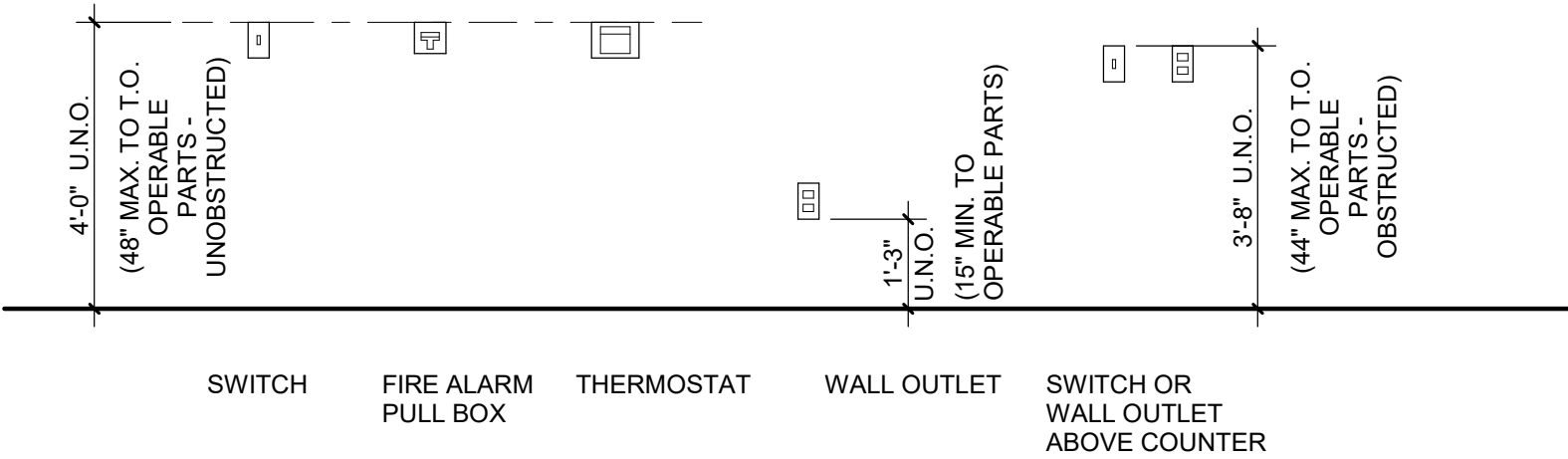
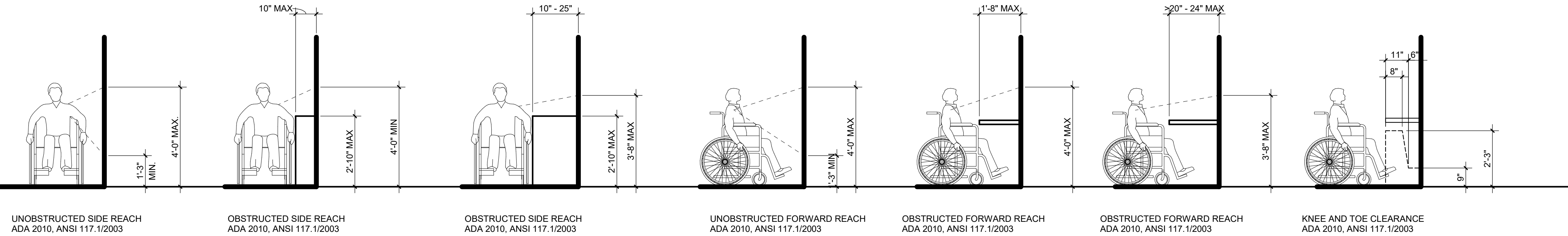


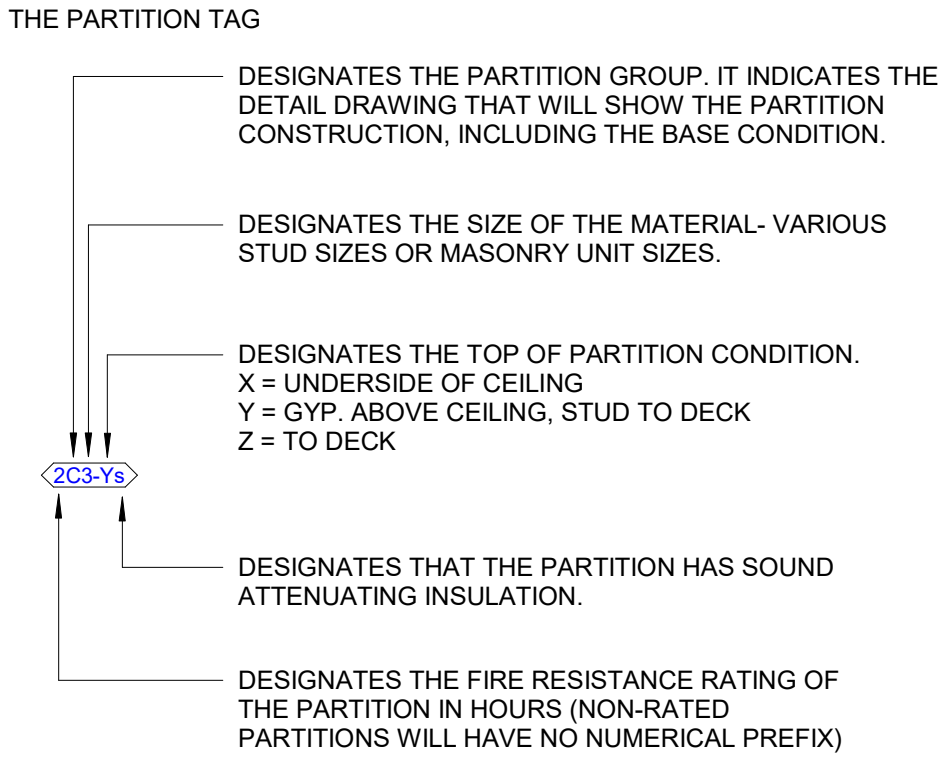
$$6'' = 1'-0''$$

TYPICAL MOUNTING LEGEND

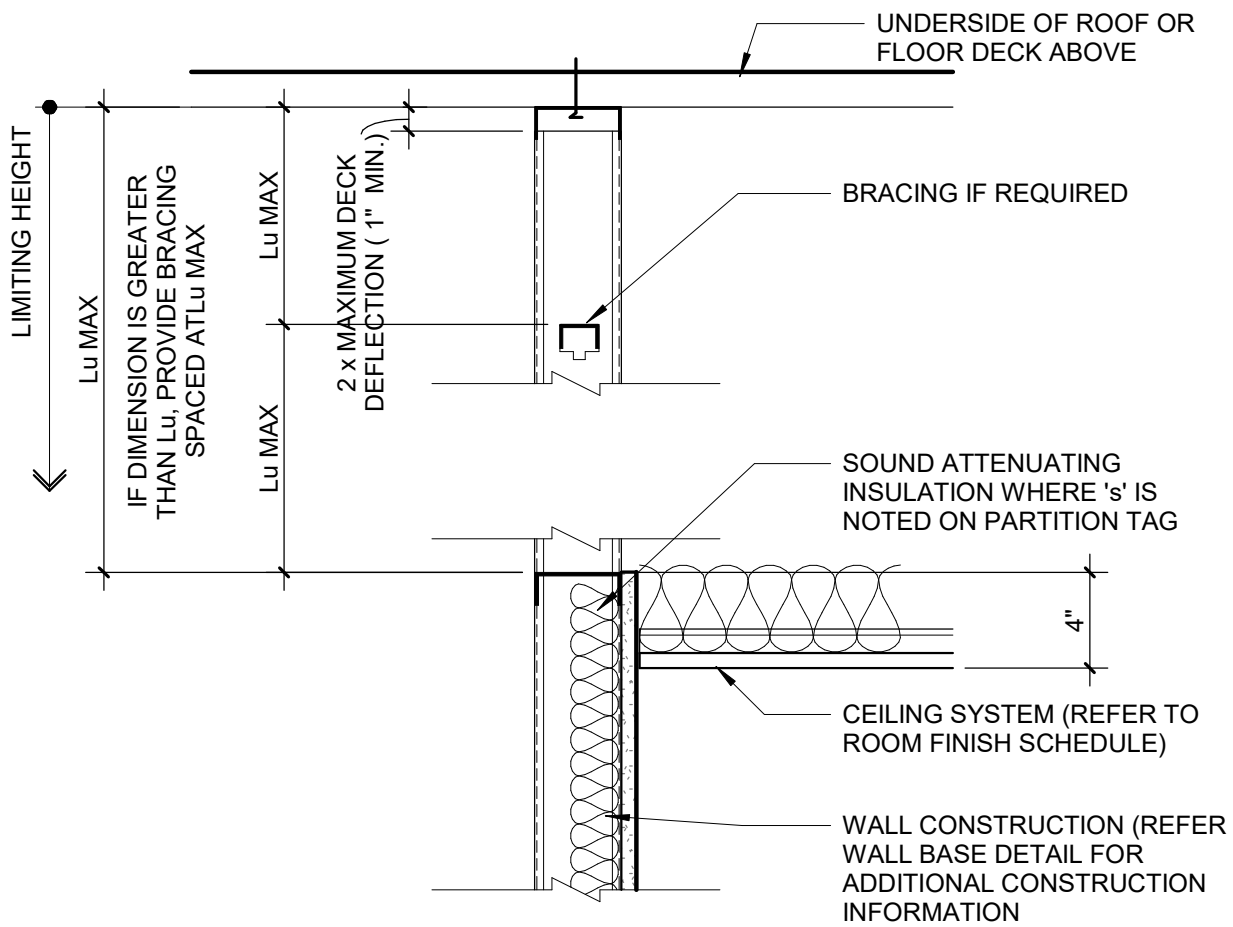


INTERIOR PARTITION SCHEDULE											
TYPE	DESCRIPTION	WIDTH		DET'L	STUD		UL DESIGN				REMARKS
		NOMINAL	ACTUAL		DEPTH	THICK	1 HR	2 HR	OTHR	STC*	
A2	1 GYP, 1 SIDE ON 1 1/2" Z-FURRING	0" - 2 1/4"	2 1/8"	X/XXX	1 1/2"	18 MIL	--	--	--	29	--
B2	1 GYP, 1 SIDE ON 3 5/8" METAL STUDS	0" - 4 1/4"	4 1/4"	X/XXX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

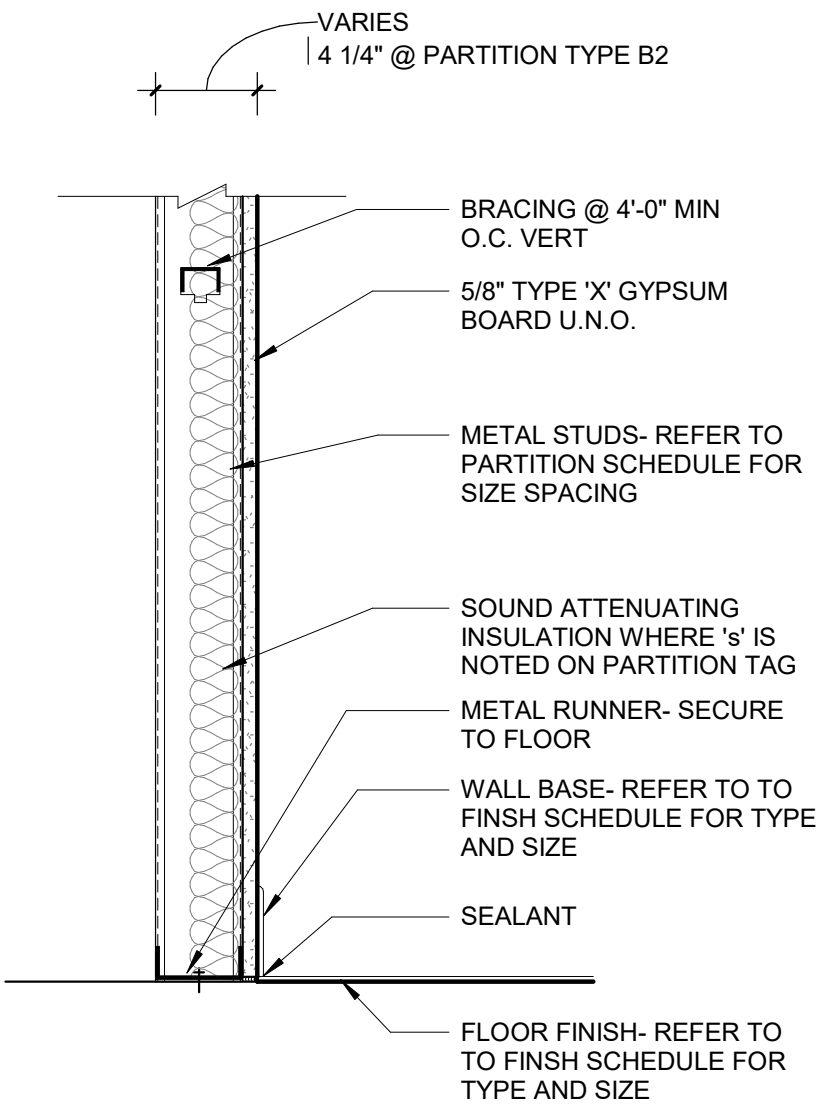
PARTITION LEGEND



PARTITION GROUPS (REMOVE TYPE FROM NOTE WHEN NOTE USED)
B = ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF METAL STUDS.



2 Partition Type B Wall Head Detail (.Y)
1 1/2" = 1'-0"



1 Partition Type B Wall Base Detail
1 1/2" = 1'-0"



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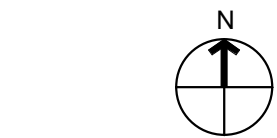
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Project :

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RESOURCE CENTER
RENOVATION

5101 John C Lodge Fwy,
Detroit, MI 48202

Key Plan:



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07.07.22

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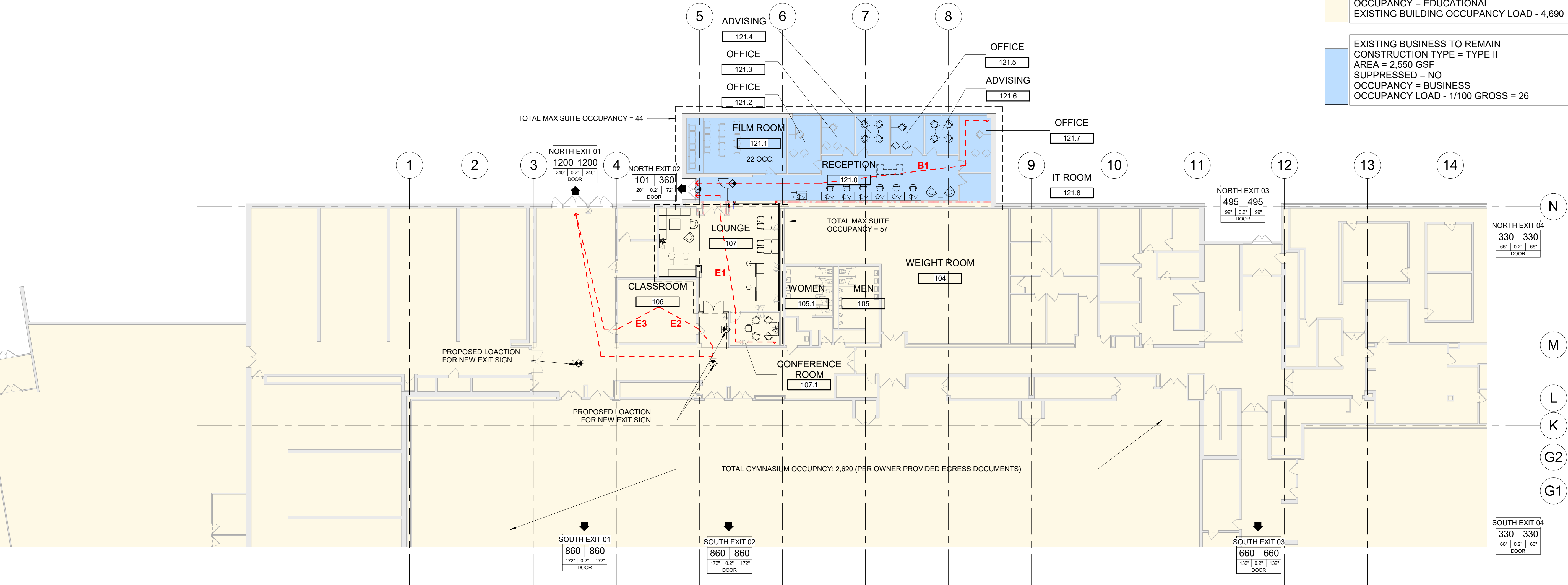
STANDARD MOUNTING
HEIGHTS, PARTITION TYPES
AND DETAILS

Project No. :

2022.038

Sheet No. :

G002



LIFE SAFETY SYMBOL LEGEND			
- - - - - EXIT TRAVEL DISTANCE			
● EXIT LIGHT (SHADING INDICATES LIGHTED FACE)			
EXIT 01			
0	330	COMPONENT NAME	
0	330	MAXIMUM CALCULATED OCCUPANT CAPACITY	
0	330	PROVIDED EGRESS WIDTH (INCHES)	
0	330	COMPONENT TYPE	
0	330	COMPONENT CAPACITY FACTOR	
0	330	CALCULATED EGRESS WIDTH	
0	330	OCCUPANT LOAD	

EGRESS TRAVEL DISTANCE SCHEDULE	
Egress Path	Travel Distance
B1	101' - 8"
E1	63' - 8"
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
OCCUPANCY = EDUCATIONAL	EXISTING BUILDING OCCUPANCY LOAD - 4,690

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

SVAV

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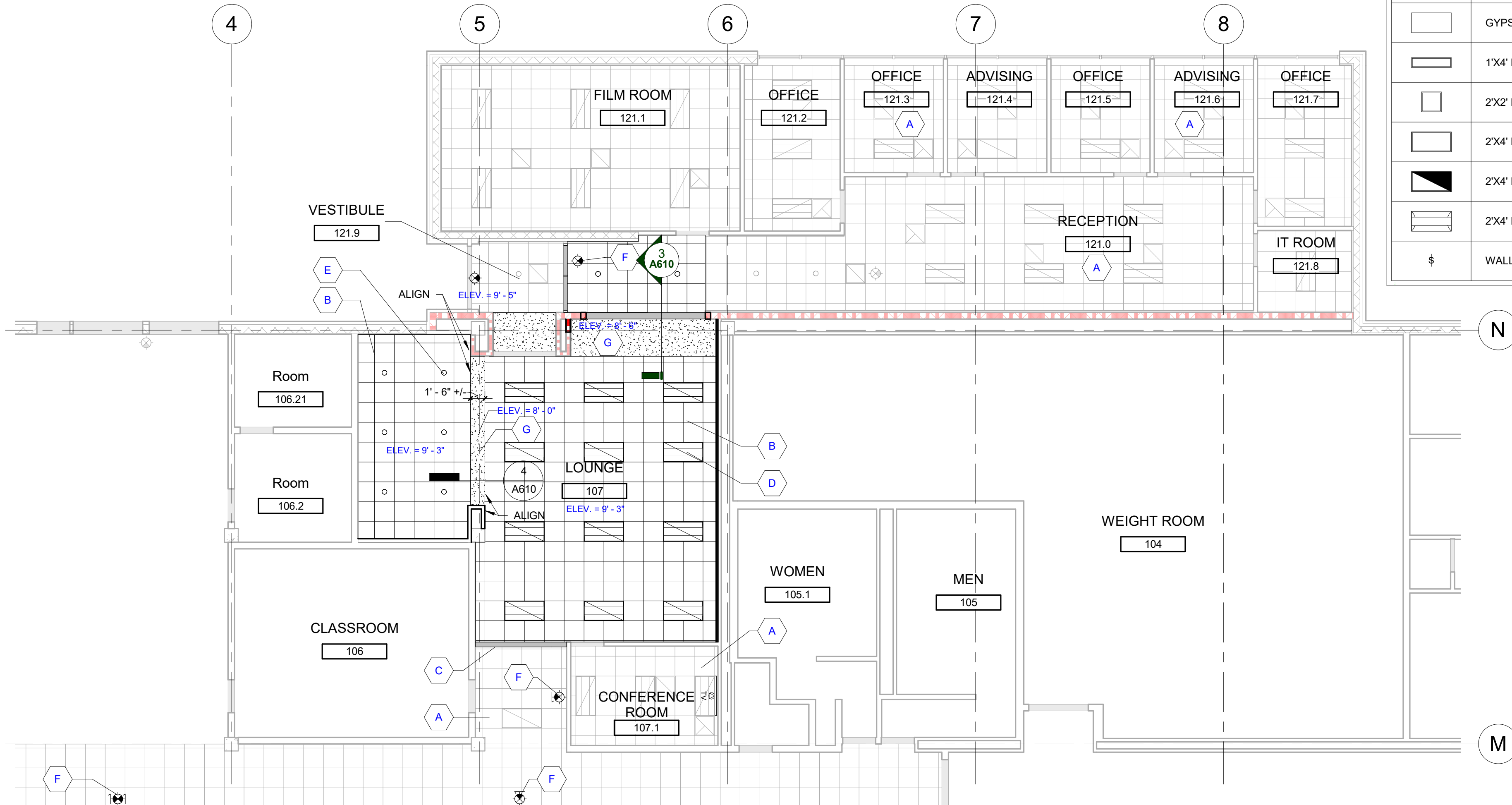
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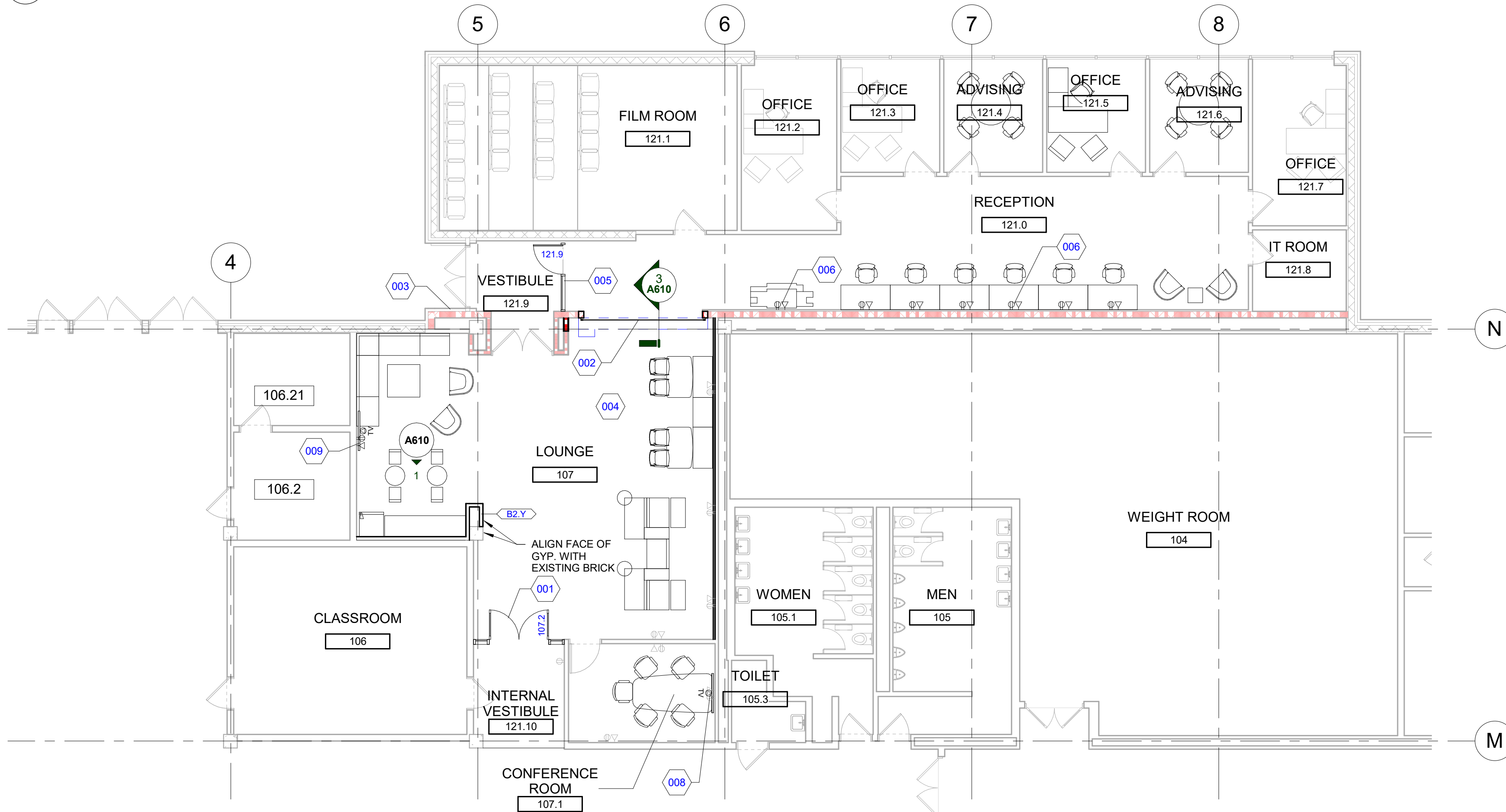
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CODE INFORMATION AND
FLOOR LIFE SAFETY PLAN -
EGRESS PLANS

Project No. :
2022.038
Sheet No. :
LS110

DO NOT SCALE DRAWINGS
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2 REFLECTED CEILING PLAN
A110 1/8" = 1'-0"



1 CONSTRUCTION PLAN
A110 1/8" = 1'-0"

REFLECTED CEILING LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ACOUSTIC CEILING TILE SYSTEM PER SCHEDULE AND/OR SPECIFICATIONS		RECESSED DOWNLIGHT FIXTURE		RETURN AIR GRILL
	GYPSUM BOARD CEILING AND/OR SOFFIT		WALL WASHING LIGHT FIXTURE		EXHAUST AIR GRILL
	1'X4' LIGHT FIXTURE		WALL SCONCE FIXTURE		SMOKE DETECTOR
	2'X2' LIGHT FIXTURE		UNDER CABINET LIGHT FIXTURE		FIRE SUPPRESSION HEAD
	2'X4' LIGHT FIXTURE		EMERGENCY LIGHT FIXTURE W/ BATTERY SUPPLY		SPEAKER
	2'X4' NIGHT LIGHT FIXTURE		EXIT LIGHT (SHADING INDICATES LIGHTED FACE)		ELEVATION ABOVE FINISHED FLOOR
	2'X4' DIRECT/INDIRECT LIGHT FIXTURE		ACCESS PANEL - COORDINATE FINAL LOCATION WITH MEP		EXISTING FIXTURE TO REMAIN
	WALL SWITCH		SUPPLY AIR DIFFUSER		EXISTING FIXTURE TO BE RELOCATED

GENERAL RCP NOTES

- 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.
- 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.
- 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).
- 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.
- CONTRACTOR TO PROVIDE DENS ARMOR PLUS WALL BOARD (MOISTURE RESISTANT) IN ALL CEILING AREAS AND WALLS OF TOILET ROOMS AND VESTIBULES (TYPICAL UNO).
- 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.
- 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).
- REFER TO WALL TYPES FOR WALLS THAT PENETRATE CEILINGS.
- REFER TO MECHANICAL HVAC PLANS FOR DIFFUSER / GRILLE SIZES.
- FOR LIGHT FIXTURE TYPES SEE ELECTRICAL LIGHTING PLANS.
- 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.
B	NEW ACOUSTIC CEILING GRID TO BE INSTALLED, TYP.
C	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
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.
008	NEW LOCATION OF TV SALAGED FROM RECEPTION.
009	NEW TV MOUNTED TO WALL. POWER AND DATA TO BE INSTALLED BEHIND.

GENERAL PLAN NOTES

- 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.
- ALL DIMENSIONS ARE SHOWN FROM FINISH FACE TO FINISH FACE OF PARTITION UNLESS OTHERWISE NOTED.
- WALL THICKNESS ARE NOMINAL NOT ACTUAL DIMENSIONS. SEE WALL SCHEDULE FOR ACTUAL DIMENSIONS.
- 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.
- PROVIDE POSITIVE SLOPE TO ALL FLOOR DRAINS WHILE KEEPING FLOOR LEVEL AT WALL BASE CONDITION.
- PROVIDE TRANSITION STRIPS AT EACH CHANGE IN FLOOR FINISH MATERIALS.
- PAIN, 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.
- REINFORCE WALL AND PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL CABINETS AND COUNTERTOPS.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL WALL REINFORCING FOR INSTALLATION OF ACCESSORIES, COAT RACKS, CHART RACKS, CASEWORK, AND OTHER WALL MOUNTED ITEMS.
- CLEAN AND REPAIR ALL EXISTING FLOOR FINISHES AS NECESSARY.
- ALL EXPOSED PIPES, DUCTS, AND CONDUIT TO BE PAINTED TO MATCH EXISTING.
- PROVIDE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AT 30'-0" O.C. MAXIMUM AND AS INDICATED IN THE CONTRACT DOCUMENTS.
- 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, ATMS.
- 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.
- 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.
- 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.
- 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)
- CONTRACTOR TO COORDINATE WITH FURNITURE VENDOR ON FURNITURE SPECIFICATIONS, LAYOUT, AND INSTALL.



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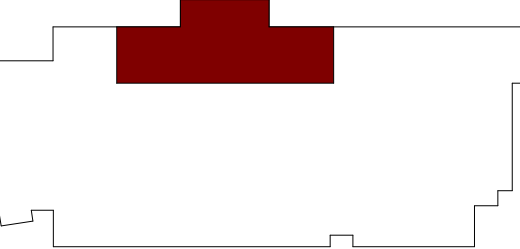
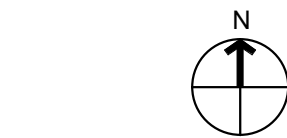
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FIRST LEVEL NEW
CONSTRUCTION AND RCP

Project No. :

2022.038

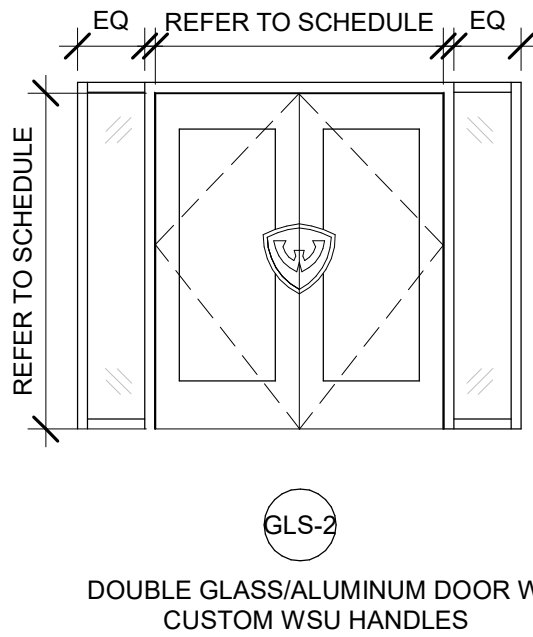
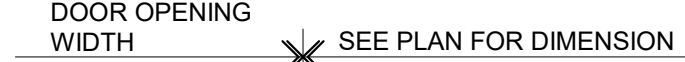
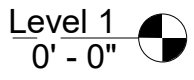
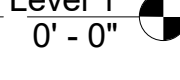
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LIST OF MATERIALS												
06410 - ARCHITECTURAL CASEWORK				09650 - RESILIENT FLOORING			09910 - PAINT					
PL-1	PLASTIC LAMINATE MANUFACTURER: WILSONART MODEL: STANDARD HPL PRODUCT #: 15504 COLOR: CHARCOAL VELVET FINISH: TRACELESS FINISH LOCATION: REFER TO FINISH PLAN FOR EXACT LOCATION CONTACT:			CT-1	CARPET MANUFACTURER: MATCH EXISTING COLOR: STEEL MATCH EXISTING LOCATION: LOUNGE		PT-1	INTERIOR FIELD PAINT MANUFACTURER: SHERWIN WILLIAMS COLOR: REPOSE GRAY FINISH: EGG-SHELL LOCATION: REFER TO FINISH PLAN FOR EXACT LOCATION				
09510 - SUSPENDED ACOUSTICAL CEILING				RB-1	RUBBER WALL BASE MANUFACTURER: ROPPE COLOR: LUNAR DUST 114 SIZE: 4 1/4"th, 1/4" THICK (USE 8' LENGTHS, NOT COIL) LOCATION: LVT & CPT, REFER TO FINISH PLAN FOR LOCATION. CONTACT:		15000 - ELECTRICAL					
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) LOCATION: SEE RCP FOR MORE DETAIL NOTE: WHEN EXISTING GRID IS PRESENT, MATCH WHEN POSSIBLE						-	FACE PLATES COLOR: STAINLESS STEEL				
							-	DEVICES COLOR: WHITE				
							12000 - SIMULATED STONE					
							SS-1	SIMULATED STONE MANUFACTURER: WILSONART MODEL: QUARTZ PRODUCT #: Q6012 COLOR: GREY WOLF THICKNESS: 3 CM				

Level 1: 7
TOTAL ROOMS: 7

NUMBER	ROOM NAME	DOOR SIZE		HDVIE. SET	DOOR				THRESHOLD TYPE	FRAME			FIRE RATING	DETAILS		REMARKS
		WIDTH	HEIGHT		TYPE	MATERIAL	FINISH	GLASS		MATERIAL	FINISH	GLASS		HEAD	JAMB	
Level 1																
107.2	LOUNGE	6' - 0"	7' - 0"	1	GL-2	ALUM	PFN	GL-	PER MNF.	ALUM	PFN	GL-	NA	6/A610	7/A610	COORDINATE CUSTOM DOOR HANDLE DESIGN WITH OWNER
121.9	VESTIBULE	3' - 0"	7' - 0"	2	GL-1	ALUM	PFN	GL-	PER MNF.	ALUM	PFN	GL-	NA	6/A610	7/A610	


$$1\frac{1}{2}'' = 1'-0''$$

$$1\frac{1}{2}'' = 1'-0''$$

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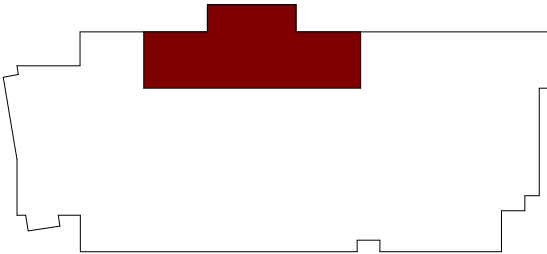
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INTERIOR ELEVATIONS AND
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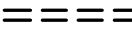
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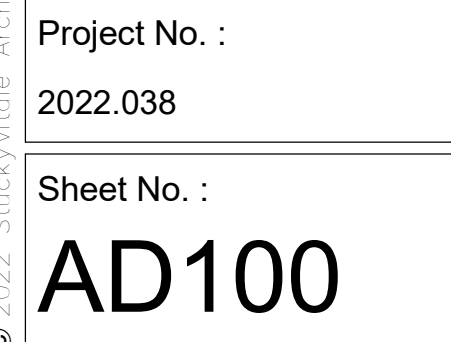


DEMOLITION RCP LEGEND



- ### DEMOLITION PLAN LEGEND

<u>EXISTING</u>	
	EXISTING SMOKE SEPARATION TO REMAIN
	EXISTING 1 HOUR FIRE SEPARATION TO REMAIN
	EXISTING 2 HOUR FIRE SEPARATION TO REMAIN
	EXISTING 3 HOUR FIRE SEPARATION TO REMAIN
	EXISTING METAL STUD PARTITION TO REMAIN
	EXISTING CMU PARTITION TO REMAIN
	EXISTING CONCRETE WALL TO REMAIN
	EXISTING DOOR TO REMAIN,
	AREA NOT IN CONTRACT (NIC)
<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
	DEMO DOOR

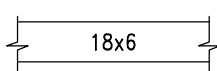


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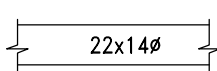
ABBREVIATIONS

ACCU	AIR CONDITIONING CONDENSING UNIT	NC	NORMALLY CLOSED
AD	ACCESS DOOR	NC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NO	NORMALLY OPEN
AHU	AIR HANDLING UNIT	NOM.	NOMINAL
AP	ACCESS PANEL		
ASR	AUTOMATIC SPRINKLER RISER	OA	OUTSIDE AIR
BTU	BRITISH THERMAL UNIT		
CC	COOLING COIL	RA	RETURN AIR
CF	CENTRIFUGAL FAN	RET	RETURN
CFM	CUBIC FEET PER MINUTE	RF	RETURN FAN
CONT	CONTINUATION	REL	RELOCATED
		REB	REBALANCE
DDC	DIRECT DIGITAL CONTROL	SA	SUPPLY AIR
DET	DETAIL	SD	SMOKE DETECTOR
DIA	DIAMETER	SF	SUPPLY FAN
DN.	DOWN	SPR	SPRINKLER
DWG.	DRAWING	SPR/STP	SPRINKLER STANDPIPE
EA	EXHAUST AIR	TP	TOTAL PRESSURE
EF	EXHAUST FAN	TYP	TYPICAL
ELEV.	ELEVATION		
EX.	EXISTING	UH	UNIT HEATER
EXH	EXHAUST	UON	UNLESS OTHERWISE NOTED
EXIST	EXISTING		
FLR	FLOOR		
FT.	FEET		
IN	INCHES		
INV	INVERT		
LAT	LEAVING AIR TEMPERATURE		
MAX.	MAXIMUM		
MBH	1000 BTU/HR		
MECH	MECHANICAL		
MIN.	MINIMUM		
MISC	MISCELLANEOUS		

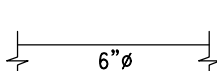
HVAC LEGEND & SYMBOLS




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.



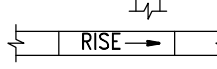
INDICATES FLAT OVAL DUCT WITH DUCT SIZE 22 INCHES WIDE (IN PLANE OF DRAWING) AND 14 INCHES DEEP. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT UNLESS OTHERWISE NOTED.



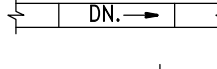
INDICATES ROUND DUCT WITH DUCT SIZE OF 6 INCHES IN DIAMETER. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT (FROM DUCT ORIGIN AT TAP TO END OF DUCT) UNLESS OTHERWISE NOTED.




VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF




INCLINED RISE IN RESPECT TO AIR FLOW




INCLINED DROP IN RESPECT TO AIR FLOW



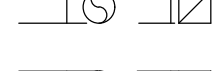
VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES)




VANED ELBOW (SHORT RADIUS)




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




DUCT TURNING UP




DUCT TURNING DOWN




VERTICAL FIRE DAMPER




HORIZONTAL FIRE DAMPER



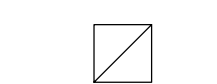
POINT OF NEW CONNECTION




DUCT SMOKE DETECTOR



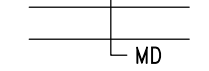
ITEM TO BE REMOVED



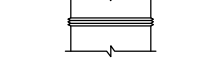
SUPPLY AIR DIFFUSER




RETURN AIR GRILLE



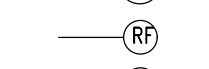
VOLUME CONTROL DAMPER (MANUAL)




FLEXIBLE CONNECTION OR FLEXIBLE DUCT CONNECTOR




MOTORIZED DAMPER




COMBINATION FIRE AND SMOKE DAMPER



RF SHIELDING DAMPER



THERMOSTAT



TEMPERATURE SENSOR

GENERAL HVAC NOTES:

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

- 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.
- ALL DIMENSION SHOWN FOR DUCTWORK ARE NET INSIDE DIMENSIONS.
- DIFFUSER AND REGISTER LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- 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.
- DUCT PRESSURE CONSTRUCTION CLASSIFICATION SHALL BE AS SPECIFIED.
- ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE SAME NOMINAL SIZE AS INDICATED ON THE DRAWINGS.
- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASE OR SUSPENDED CEILING.
- ACCESS PANELS AND DOORS ARE REQUIRED THROUGH BUILDING CONSTRUCTION ASSEMBLIES SUCH AS WALLS, CEILING, PARTITIONS 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 ACCESS 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.
- ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE PROVIDED WITH FIRE DAMPERS AND ACCESS DOOR.

MECHANICAL SHEET INDEX	
M000	MECHANICAL SYMBOLS LIST, INDEX, NOTES & SPECIFICATIONS
M100	DEMOLITION & NEW WORK HVAC PLANS & DETAILS
F100	FIRST LEVEL NEW WORK FIRE PROTECTION PLAN

MECHANICAL SPECIFICATION

MECHANICAL MATERIALS, METHODS AND EXECUTION WORK INCLUDED:

WORK INCLUDED:

- 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.

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.
- "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:

- 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.
- WHERE CONTRACT DOCUMENT REQUIREMENTS EXCEED THE REQUIREMENTS OF THE REFERENCED CODES, ORDINANCES, AND STANDARDS, THE CONTRACT DOCUMENT REQUIREMENTS SHALL BE TAKEN AS MINIMUM.
- ALL EQUIPMENT CONTAINING ELECTRICAL WIRING AND/OR ELECTRICAL COMPONENTS SHALL HAVE A UNDERWRITERS LABORATORIES (UL) "PACKAGE" LABEL.
- ALL GAS FIRED EQUIPMENT SHALL HAVE THE AMERICAN GAS ASSOCIATION (AGA) LABEL.

PERMITS, FEES AND INSPECTIONS:

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

EXAMINATION OF SITE:

- 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.
- 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.

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:

- 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 AND EQUIPMENT.
- SUBMIT ELECTRONIC COPY OF ALL SHOP DRAWINGS FOR REVIEW.
- NO WORK IS TO BE INSTALLED PRIOR TO RETURN OF ARCHITECT REVIEWED SHOP DRAWINGS.

OPERATION AND MAINTENANCE MANUALS:

- 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 SURFACES, AND/OR BE RESTORED TO PRE-CONSTRUCTION CONDITION.

PROTECTION OF EXISTING SERVICES:

- PROTECT FROM ALL DAMAGE, EXISTING SERVICES (E.G., GAS, WATER, ELECTRICAL, ETC.), ENCOUNTERED IN THE WORK, NOT SPECIFICALLY INDICATED TO BE DEMOLISHED, INCLUDE ALL RELATED COSTS.
- 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.

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:

- 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:

- REFER TO ARCHITECTURAL SPECIFICATIONS FOR GUARANTEES, IF NONE EXIST THE FOLLOWING MINIMUM GUARANTEES SHALL BE PROVIDED.
 - 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.
 - 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: SM 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-20G, 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 I.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

FIRE PROTECTION:

FIRE PROTECTION CONTRACTOR SHALL SUBMIT NECESSARY DRAWINGS AND DOCUMENTS TO LOCAL AND STATE AGENCIES AND OBTAIN APPROVALS OF SAME.
FIRE PROTECTION CONTRACTOR SHALL DESIGN AND PROVIDE ALL MODIFICATIONS TO THE SPRINKLER SYSTEM INCLUDING RELOCATION OF HEADS TO ACCOMMODATE NEW CEILING AND WALL CONFIGURATIONS AS SHOWN OR REQUIRED COMPLYING WITH N.F.P.A. 13, U.L. AND ALL STATE AND LOCAL CODES.
SPRINKLER HEADS ARE TO MATCH EXISTING CONCEALED TYPE WITH WHITE COVER.
ALL SPRINKLER HEADS AND INCANDESCENT LIGHT FIXTURES SHALL BE CENTERED WITHIN THE GRID U.N.O. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE HEAD AND BRANCH LINE LOCATIONS TO ALLOW INSTALLATION OF LIGHTING, GRILLES AND DUCTWORK AS SHOWN.
THE FIRE PROTECTION CONTRACTOR SHALL RELOCATE EXISTING HEADS AND BRANCH LINES AS REQUIRED TO ACCOMMODATE NEW MECHANICAL WORK LIGHT FIXTURE LAYOUT AND ALL APPLICABLE CODES.



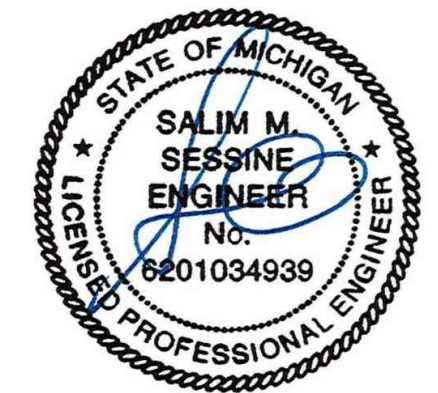
STUCKY VITALE ARCHITECTS
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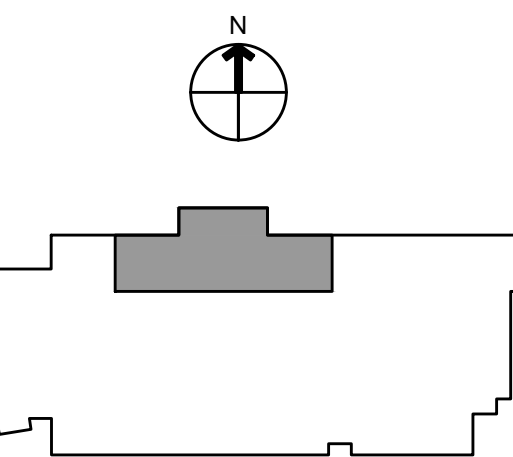


Project :

MATTHAEI ACADEMIC
RESOURCE CENTER
RENOVATION

5101 John C Lodge Fwy,
Detroit, MI 48202

Key Plan:



Issued for

BID / PERMIT 07.07.22

Drawn by :

MJ

Checked by :

ss

Sheet Title :

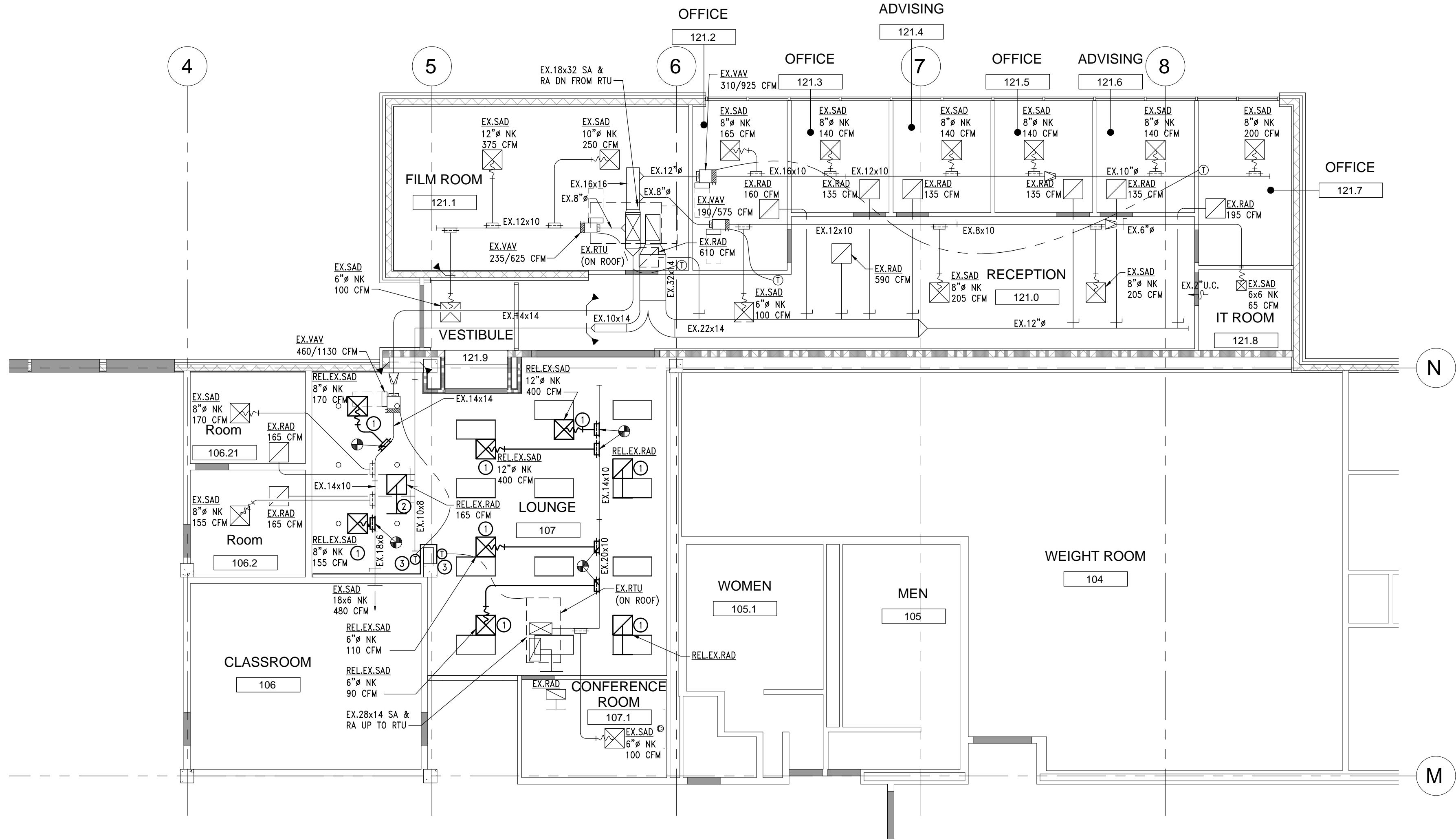
MECHANICAL SYMBOLS LIST, INDEX,
NOTES & SPECIFICATIONS

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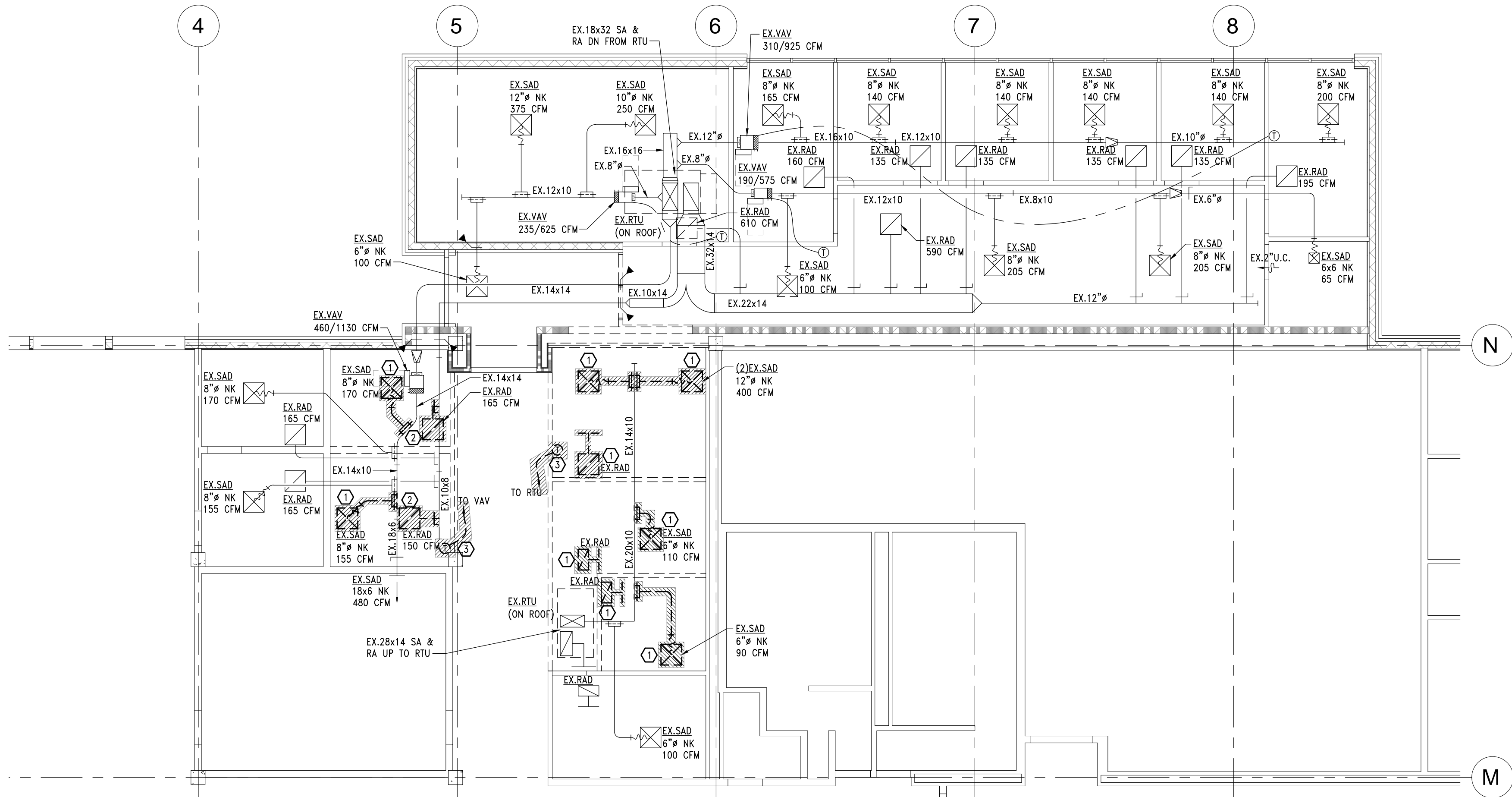
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Sheet No. :

M000



2 FIRST LEVEL NEW WORK HVAC
M100 1/8" = 1'-0"



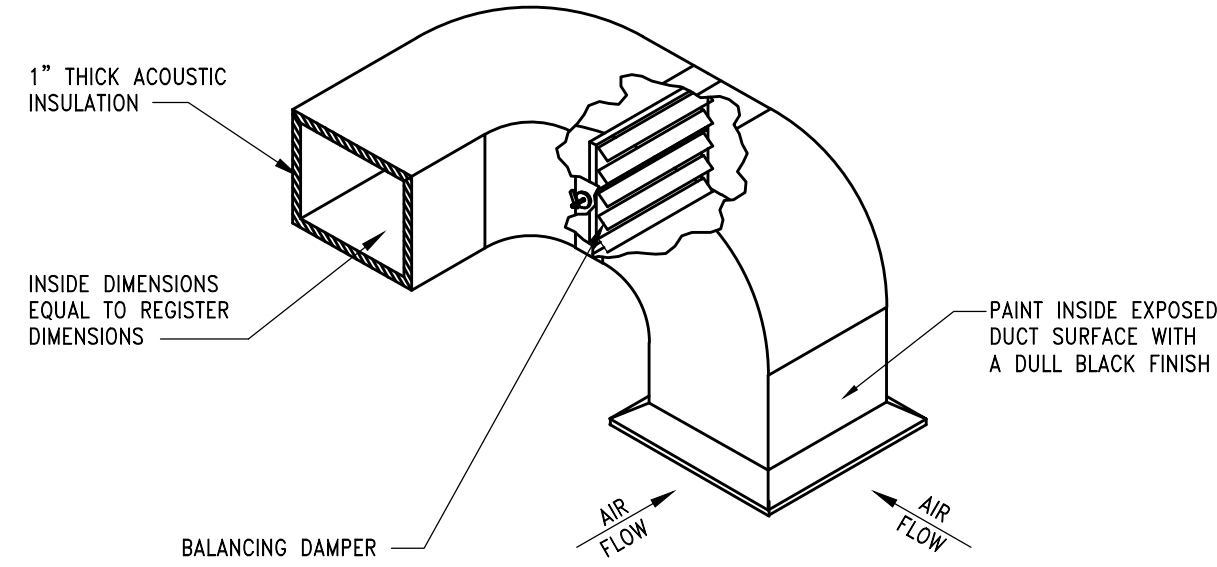
1 DEMOLITION HVAC PLAN
M100 1/8" = 1'-0"

NEW WORK HVAC KEY NOTES:

- EXISTING RELOCATED SUPPLY AIR DIFFUSER/RETURN AIR GRILLE.
- EXISTING RELOCATED RETURN AIR GRILLE WITH NEW BOOT.
- EXISTING RELOCATED THERMOSTAT. EXTEND WIRING TO THIS LOCATION.

GENERAL HVAC NOTES:

- A. COORDINATE ALL WORK WITH OTHER TRADES.



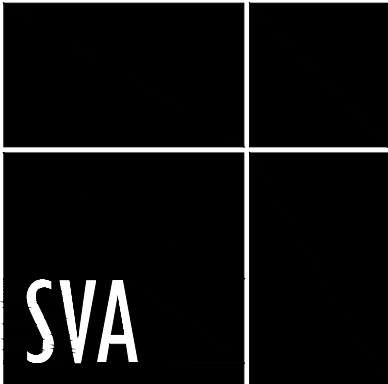
1
M100
DETAIL OF A TYPICAL SOUND INSULATED
AIR PLENUM FOR OFFICES AND CONFERENCE ROOMS
SCALE: NONE

DEMOLITION HVAC KEY NOTES:

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

GENERAL HVAC NOTES:

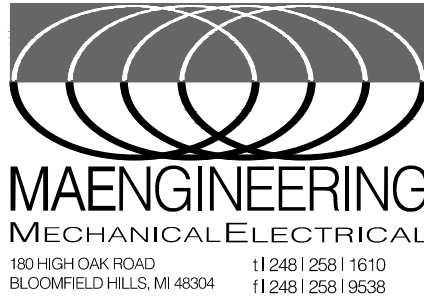
- A. COORDINATE ALL WORK WITH OTHER TRADES.



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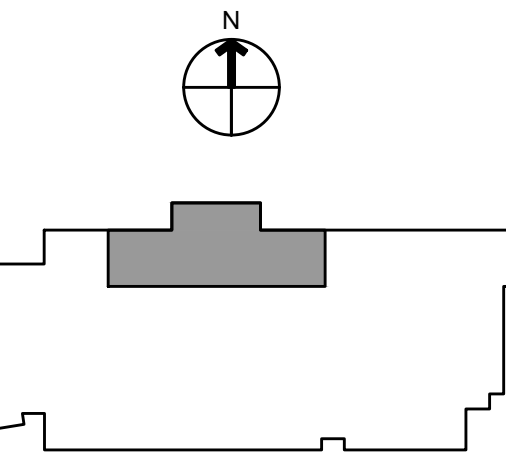


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5101 John C Lodge Fwy,
Detroit, MI 48202

Key Plan:



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ss

Sheet Title :

DEMOLITION & NEW WORK
HVAC PLANS & DETAILS

Project No. :

2022.038

Sheet No. :

M100

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 1/2" MACHINE-WRITTEN BLACK LETTERING ON CLEAR PLASTIC ADHESIVE TAPE. LOCATE ON BOTTOM FRONT OF COVERPLATE. CENTERED BELOW WIRING DEVICES(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.

WARRANTY:
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.

SUBMITTALS:
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 CONTRACTOR.

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 WHEN 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.

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

ELECTRICAL EQUIPMENT AND DEVICES:
MINI POWER ZONE (MPC) SHALL BE COMBINATION OF 15KVA 115 DEGREE C RISE ENCAPSULATED TRANSFORMER, 450V 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-WIRE, AND POLARIZED. RECEPTACLES IN GENERAL SHALL BE 20A, 125 V., HUBBELL #HBL5362 OR EQUAL MOUNTED 16" AFF IN OFFICES AREAS AND 48" AFF IN SHOP AREAS EXCEPT AT COUNTERS WHERE THEY SHALL BE 6" ABOVE COUNTER AND IN TOILET ROOMS AT 48" AFF. RECEPTACLES ON SINGLE CIRCUIT SHALL BE 20 AMPERES, HUBBELL #HBL5362. HIGH AMPERE RATINGS AND VOLTAGES ARE INDICATED ON 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 OVERCURRENT DEVICES ARE 1/2", C #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, BULBED 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 "NOD" 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 1/2". 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 500.

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:



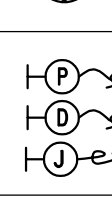
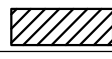

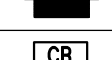
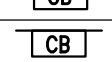
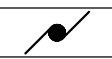





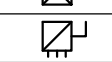



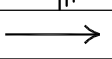
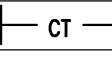
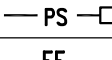
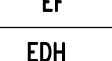
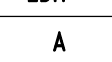

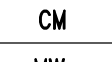
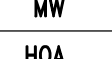
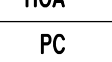
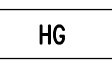
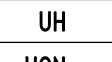
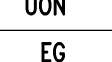
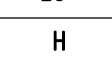



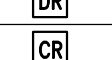
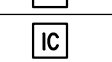



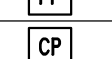
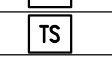



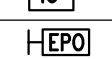
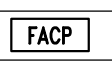

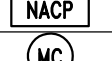

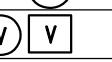





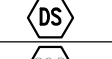



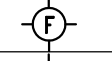
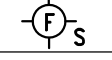

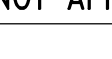




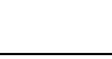

LED LIGHTING FIXTURES SHALL HAVE 5 YEAR WARRANTY, A COLOR RENDERING INDEX OF 90 OR HIGHER, 3500K COLOR TEMPERATURE UNLESS OTHERWISE INDICATED ON DRAWINGS, LIFETIME: 50,000 HOURS OR GREATER AND MAINTAIN AT LEAST 70% OF INITIAL LUMEN OUTPUT, RATED FOR OUTDOOR USE AND WET LOCATION, IF IN OPEN FIXTURE.

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.

"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 FACE (S) CHEVRONS AS INDICATED
	EMERGENCY LIGHTING UNIT
	COMBINATION OF EXIST AND EMERGENCY LIGHTING UNIT
	SINGLE POLE LIGHT SWITCH
	THREE WAY LIGHT SWITCH
	FOUR WAY LIGHT SWITCH
	KEY OPERATED SWITCH
	LIGHT SWITCH WITH PILOT LIGHT
	THREE WAY LIGHT SWITCH WITH PILOT LIGHT
	DIMMER SWITCH, COMPATIBLE WITH LIGHTS CONTROLLED
	DIMMER SWITCH WITH WALL OCCUPANCY SENSOR (SINGLE POLE)
	THREE WAY LIGHT SWITCH WITH DIMMER
	TIMER SWITCH
	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.
	RELAY PACK WITH 0-10V DIMMING OUTPUT
	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY (PASSIVE 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.
	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.
	SAME AS SW EXCEPT WITH DUAL POLE
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRUPLX RECEPTACLE
	DUPLEX RECEPTACLE WITH GROUND FAULT (GFCI)
	FACELESS GROUND FAULT CIRCUIT INTERRUPTER
	SAME AS DUPLEX RECEPTACLE EXCEPT CEILING MOUNTED
	SAME AS DUPLEX RECEPTACLE EXCEPT SHOW WINDOW TO BE MOUNTED 6" ABOVE WINDOW, COORDINATE WITH OWNER/ARCHITECT PRIOR TO INSTALLATION
	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
	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
	WALL JUNCTION
	PUSH BUTTON STATION (1, 2, OR 3 BUTTON)
	DOOR ACTIVATOR PUSH PLATE
	ELECTRIC CLOCK OUTLET
	COMBINATION DATA AND TELEPHONE OUTLET
	PHONE OUTLET SAME AS COMBINATION VOICE/DATA (W: WALL MOUNTED AT +48") DATA OUTLET
	TELEVISION OUTLET, DOUBLE GANG BOX WITH SINGLE MUD RING AND 1" TO CEILING SPACE
	AUDIO/VIDEO OUTLET, DOUBLE GANG BACK BOX WITH 1 1/4" TO ABOVE ACCESSIBLE CEILING, TERMINATE CONDUIT WITH INSULATING BUSHING, PROVIDE PULL STRING
	FLOOR MOUNTED THREE GANG (3G) FLUSH BOX, DUPLEX RECEPTACLE, A/V & DATA/PHONE COMPARTMENTS
	DUPLEX RECEPTACLE & DATA/PHONE FLUSH FLOOR MOUNTED TWO GANG (2G) COMPLETE WITH FLANGE AND COVER
	CEILING MOUNTED TWO GANG (2G) FLUSH BOX, DUPLEX RECEPTACLE & DATA/PHONE COMPARTMENTS
	MULTI-SERVICE STAMPED STEEL FLUSH FLOOR BOX - TYPE 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 - TYPE F2 - WITH (2)-20A DUPLEX RECEPTACLES & (2) DATA COMPARTMENT, WIREMOLD OR APPROVED EQUAL BY HUBBELL
	FLOOR MOUNTED TWO GANG (2G) FLUSH BOX WITH SEPARATE POWER AND DATA COMPARTMENTS FOR FURNITURE CONNECTION
	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 WITH DUPLEX OR QUAD RECEPTACLE & LOW VOLTAGE COMPARTMENTS SIMILAR TO LEGRAND RC4.		
	FIRE RATED RECESSED DEEP FLOOR POKE THRU WITH DUPLEX OR QUAD RECEPTACLE & LOW VOLTAGE COMPARTMENTS SIMILAR TO LEGRAND EVOLUTION 6 SERIES.		
	JUNCTION BOX FOR FLEXIBLE CONNECTION TO SYSTEMS (P: POWER, D: DATA). FURNITURE WHIP PROVIDED BY FURNITURE SUPPLIER. FOR NEW WORK PROVIDE 1\"		
	DISTRIBUTION PANEL		
	SURFACE MOUNTED LIGHTING AND/OR RECEPTACLE PANEL		
	RECESSED MOUNTED LIGHTING AND/OR RECEPTACLE PANEL		
	MOLDED CASE CIRCUIT BREAKER - SURFACE MOUNTED IN NEMA ENCLOSURE		
	MOLDED CASE CIRCUIT BREAKER - FLUSH MOUNTED IN NEMA ENCLOSURE		
	MOTOR - SINGLE PHASE		
	MOTOR - THREE PHASE		
	MANUAL SINGLE PHASE MOTOR STARTER WITH PILOT LIGHT, LOCKABLE OFF, FOR MOTOR APPLICATIONS; MANUAL SINGLE PHASE MOTOR SWITCH WITH PILOT LIGHT, LOCKABLE OFF AND WITHOUT OVERLOADS FOR DISCONNECT APPLICATIONS TO EQUIPMENT NOT REQUIRING OVERLOADS AND FOR APPLICATIONS WHERE OVERLOADS ARE INTEGRAL TO MOTOR-BASED LOADS. FLUSH MOUNT STARTERS / SWITCHES IN FINISHED SPACES. SURFACE MOUNT IN UNFINISHED SPACES.		
	NON-FUSIBLE DISCONNECT SWITCH		
	FUSIBLE DISCONNECT SWITCH		
	THREE PHASE COMBINATION MAGNETIC FUSIBLE MOTOR STARTER		
	BUS PLUG FUSIBLE DISCONNECT SWITCH		
	TRANSFORMER		
	CONTACTOR		
	METER		
	GROUND		
	HOMERUN TO LIGHTING PANEL		
	CABLE TRAY		
	PLUG-IN STRIP		
	EXHAUST FAN	EWC	ELECTRIC WATER COOLER
	ELECT. DUCT HTR.	AFF	ABOVE FINISHED FLOOR
	ABOVE COUNTER	WP	WEATHERPROOF
	ARCHITECT / ENGINEER	RT	RAINTIGHT
	COFFEE MAKER	UFD	UNDER FLOOR DUCT
	MICROWAVE	FPB	FAN POWER BOX
	HAND-OFF-AUTOMATIC	DW	DISHWASHER
	PHOTOCCELL	GD	GARBAGE DISPOSAL
	HOSPITAL GRADE	REF	REFRIGERATOR
	UNIT HEATER	(E)	EXISTING TO REMAIN
	UNLESS OTHERWISE NOTED	(RE)	RELOCATED EXISTING
	EQUIPMENT GROUND	IG	ISOLATED GROUND
	HORIZONTALLY MOUNT 6\"		
	GROUND FAULT CIRCUIT INTERRUPTER		
	POWER POLE VOICE/DATA/POWER		
	AUDIO/VISUAL HEAD END EQUIPMENT		
	DRIVER FOR 24V UNDER CABINET LED LIGHT		
	CARD READER		
	INTERCOM OUTLET		
	PHOTOELECTRIC CONTROLLER		
	COMBINE PARTITION SENSOR		
	WIRELESS ACCESS PANEL		
	POWER POLE VOICE/DATA/POWER		
	CONTROL PANEL, PROVIDE AS PART OF THE EQUIPMENT THEY CONTROL		
	TIME SWITCH		
	BELL		
	RADIO ALERT SYSTEM BELL		
	DOOR SWITCH		
	INTERCOM STATION		
	EMERGENCY POWER OFF PUSHBUTTON		
	FIRE ALARM CONTROL PANEL		
	FIRE ALARM ANNUNCIATOR PANEL		
	NOTIFICATION APPLIANCE CONTROL PANEL		
	MICROPHONE		
	CEILING MOUNTED SPEAKER		
	VOLUME CONTROL DIAL		
	SMOKE DETECTOR		
	HEAT DETECTOR		
	TAMPER SWITCH		
	FLOW SWITCH		
	OUTDOOR FIRE DEPARTMENT CONNECTION - AUDIO VISUAL DEVICE		
	MAGNETIC DOOR HOLDER		
	DUCT SMOKE DETECTOR		
	COMBINATION SMOKE/CO DETECTOR		
	MANUAL FIRE ALARM STATION		
	FIRE ALARM STROBE		
	FIRE ALARM HORN/STROBE		
	FIRE ALARM HORN/STROBE - CEILING MOUNTED		
	FIRE ALARM STROBE - CEILING MOUNTED		
* THIS IS STANDARD SYMBOL LIST - SOME OF THESE SYMBOL MAY NOT APPEAR ON DRAWINGS.			

ELECTRICAL SHEET INDEX	
SHEET	DESCRIPTION
E001	ELECTRICAL LEGEND, SHEET INDEX, SPECIFICATION AND DETAILS
ED100	DEMOLITION PLANS
E100	ELECTRICAL PLANS



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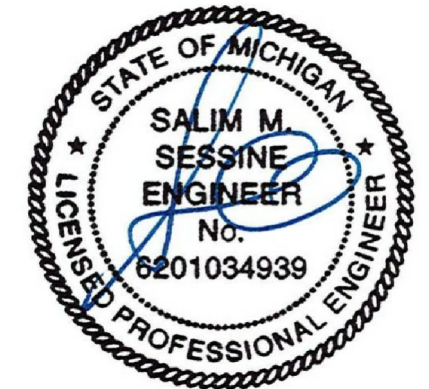
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RESOURCE CENTER
RENOVATION

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Detroit, MI 48202

Key Plan:

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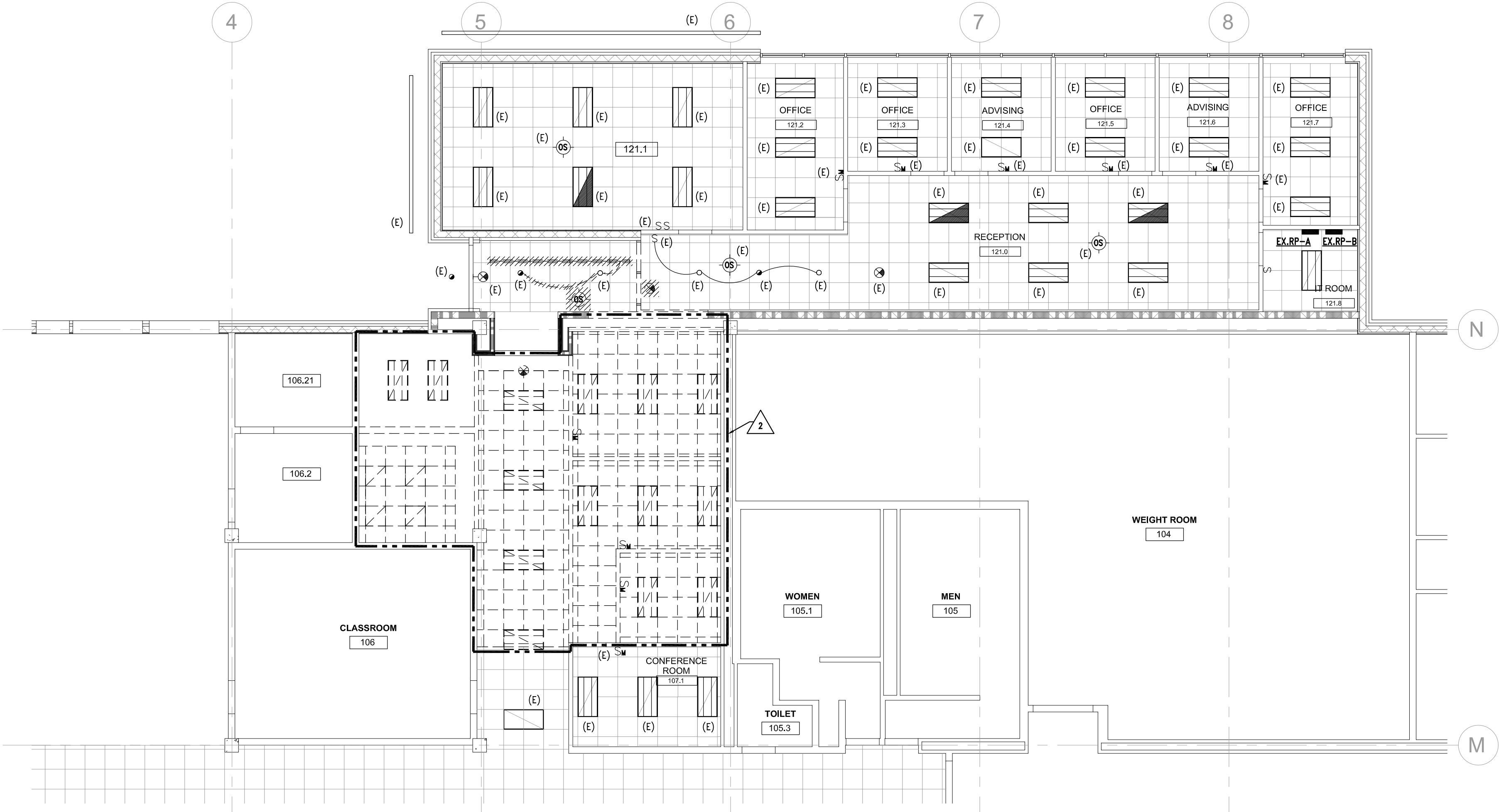
ELECTRICAL LEGEND, SHEET
INDEX AND SPECIFICATION

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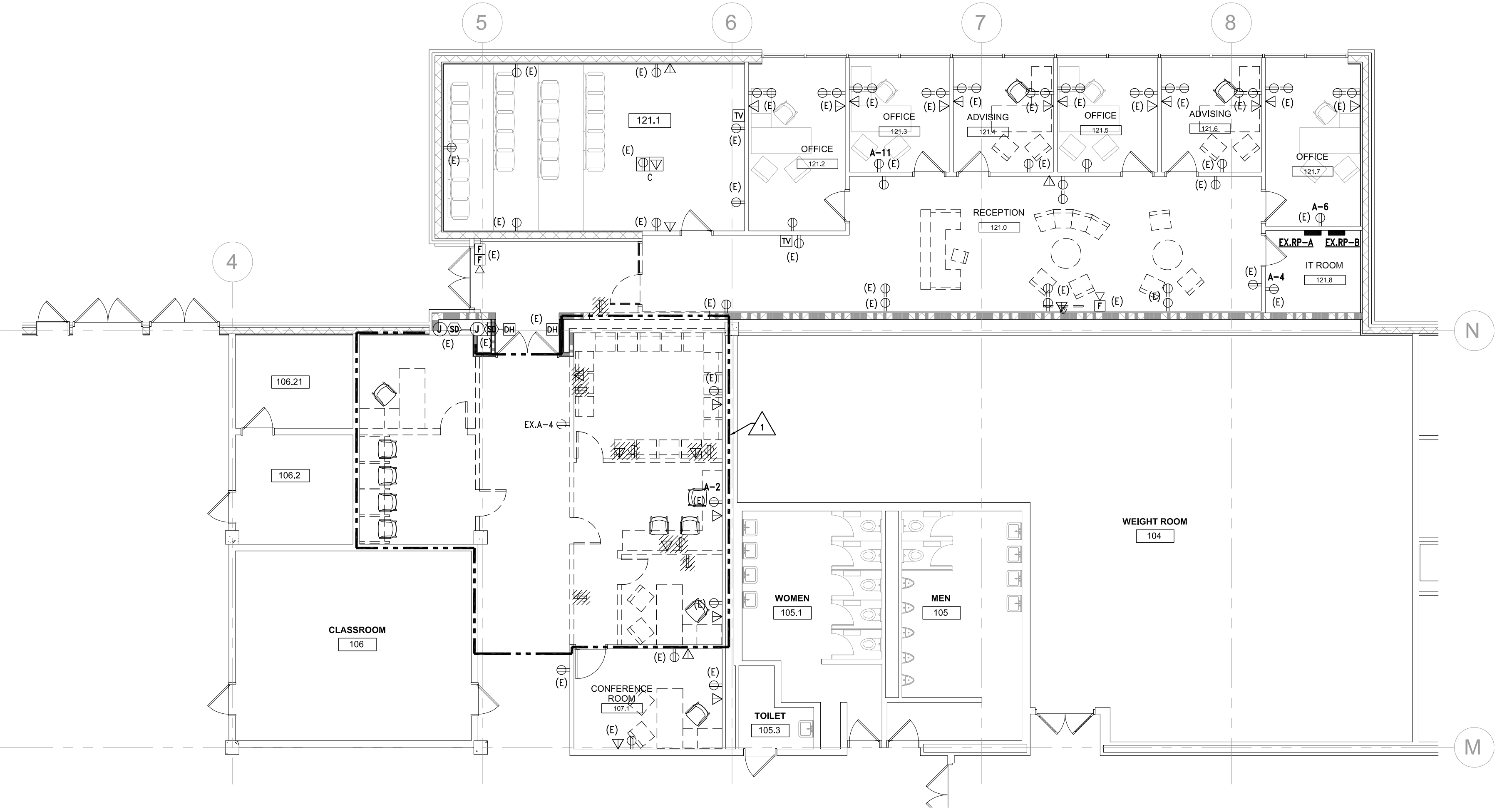
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Sheet No. :

E001



2 DEMOLITION LIGHTING PLAN
ED100 1/8" = 1'-0"



1 DEMOLITION POWER PLAN
ED100 1/8" = 1'-0"

KEY NOTES :

- 1 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.



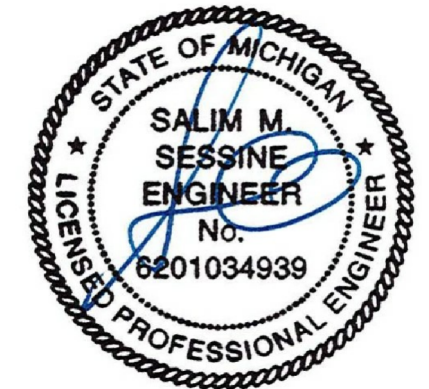
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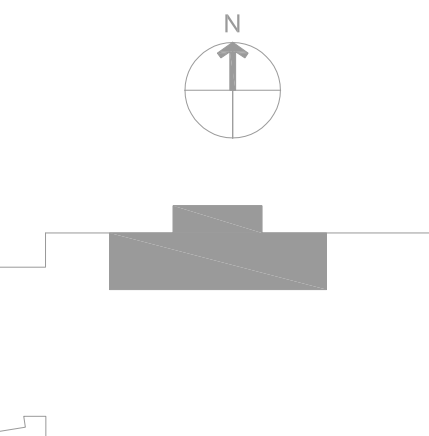


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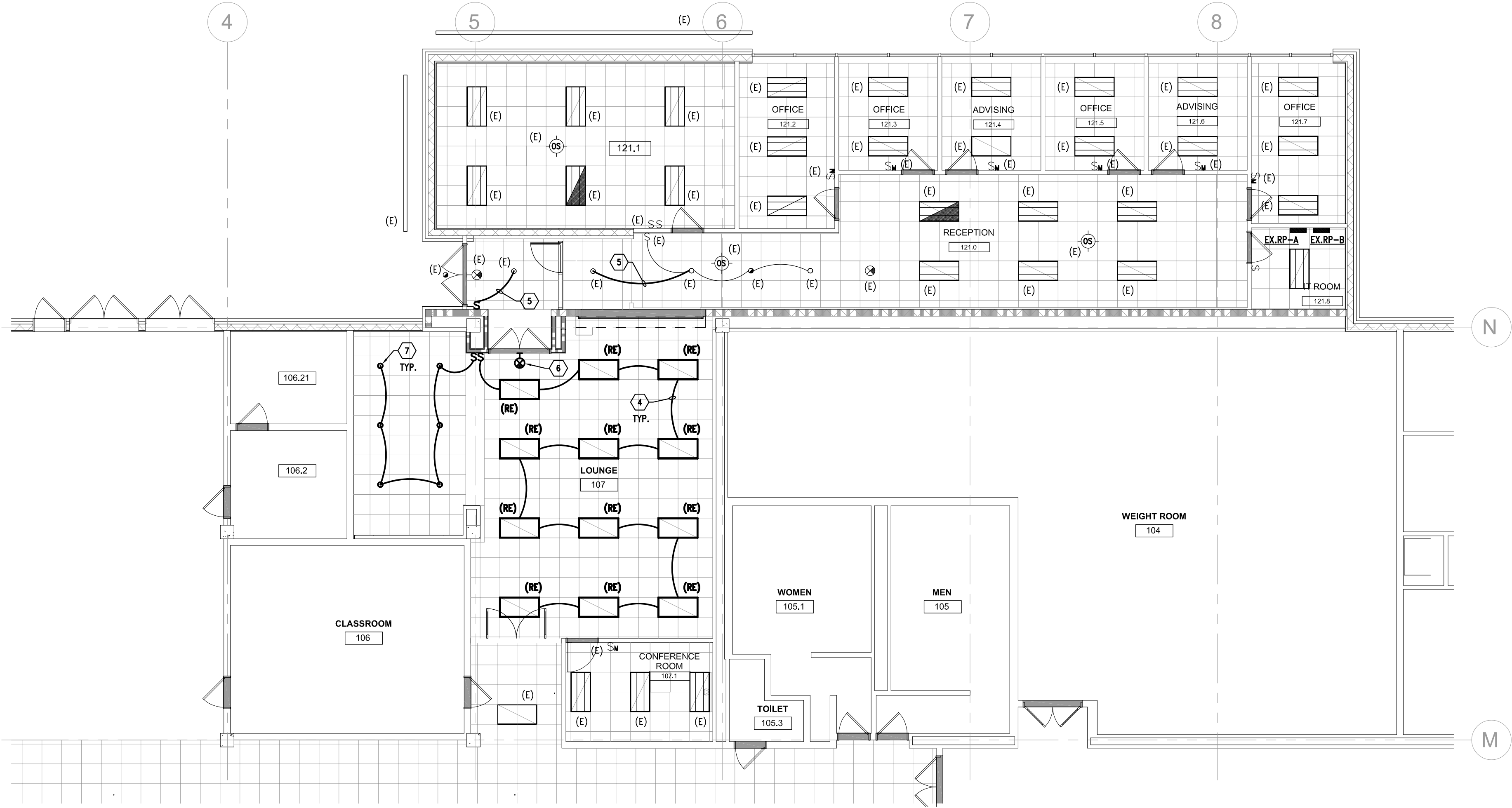
DEMOLITION PLANS

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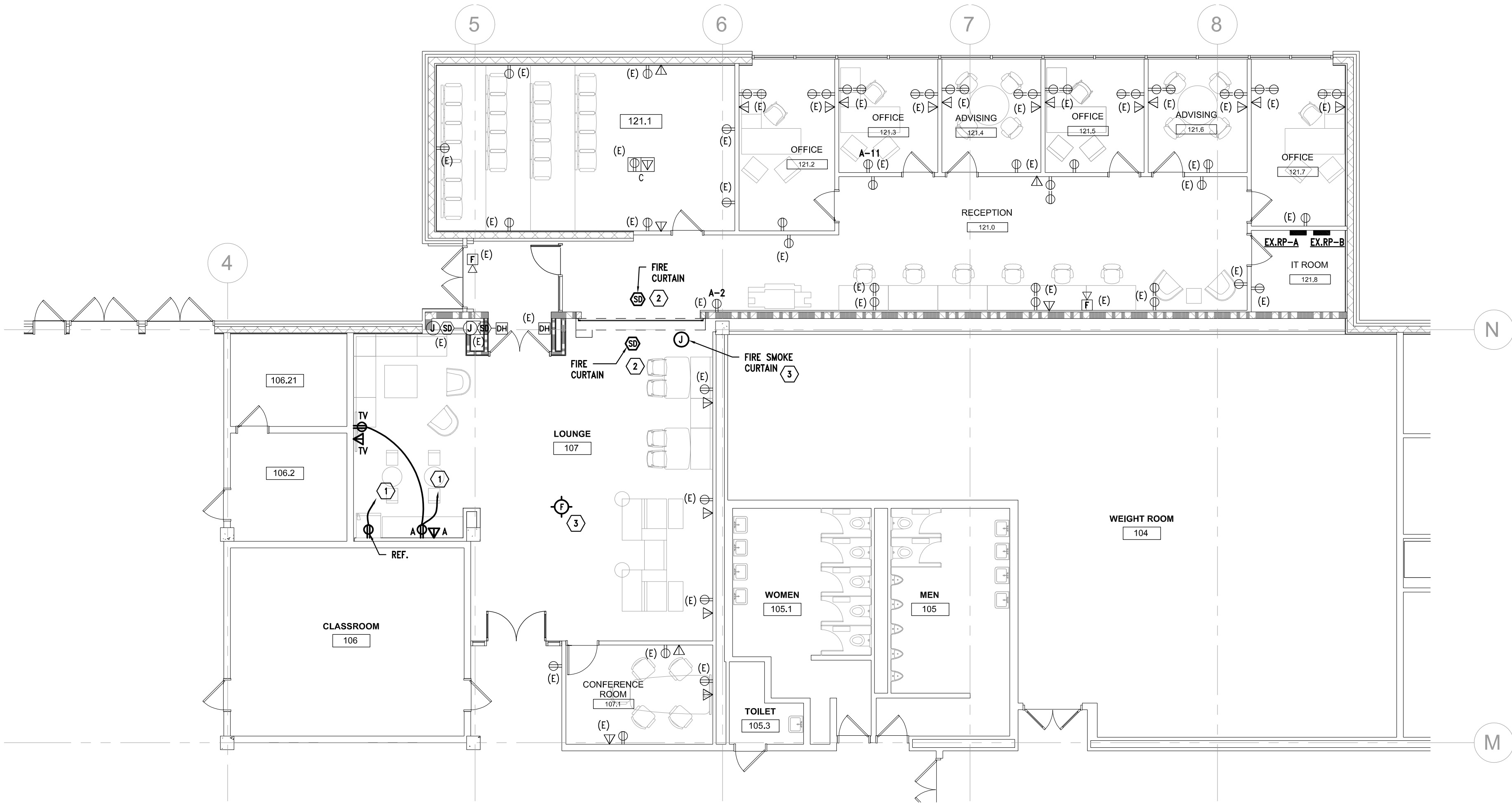
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Sheet No. :

ED100



2 LIGHTING PLAN
1/8" = 1'-0"



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

KEY NOTES :

- 1 PROVIDE SEPARATE 20A-120V-1P CIRCUIT FROM NEAREST AVAILABLE PANEL. VERIFY PANEL LOCATION.
- 2 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.
- 4 CONNECT TO EXISTING LIGHTING CIRCUIT.
- 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.



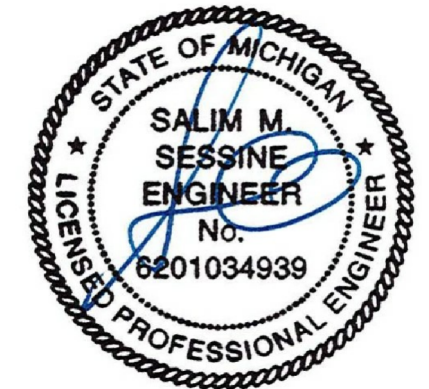
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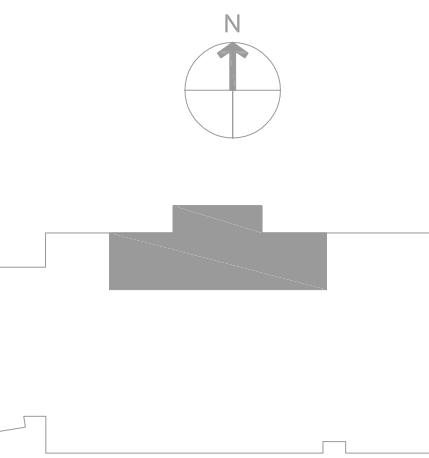


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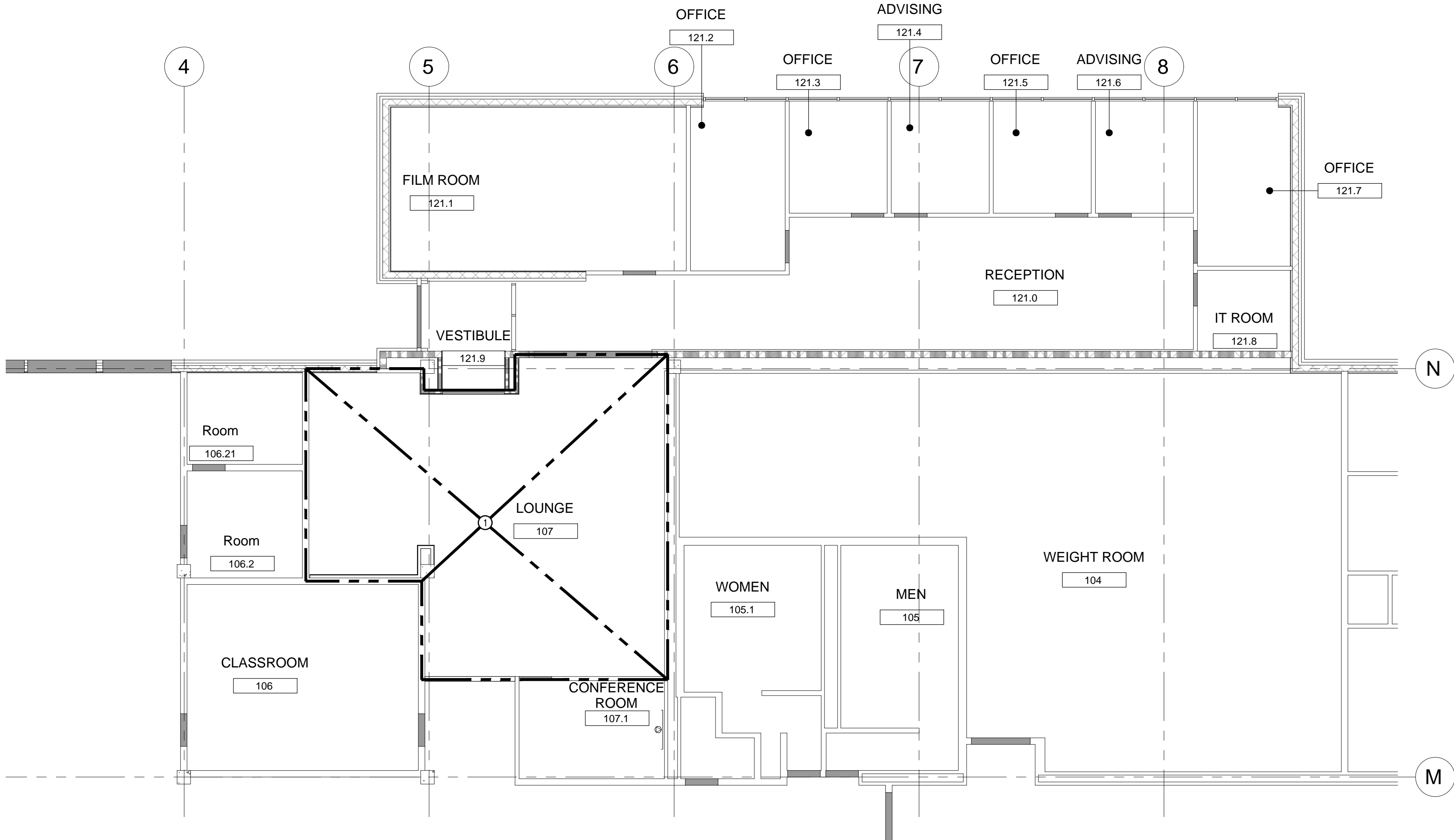
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E100

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1 FIRST LEVEL NEW WORK FIRE PROTECTION
F100 1/8" = 1'-0"

NEW WORK FIRE PROTECTION KEY NOTES:

- ① FOR THE AREA INDICATED, REWORK THE EXISTING SPRINKLER SYSTEM TO ACCOMMODATE THE NEW LAYOUT OF THE SPACE. PROVIDE NEW HEADS AND PIPING AS REQUIRED. HYDRAULICALLY DESIGN THE SYSTEM IN ACCORDANCE WITH NFPA-13, THE MICHIGAN BUILDING CODE, THE OWNER'S INSURANCE COMPANY AND THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL MAINTAIN AN OPERATIONAL SPRINKLER SYSTEM FOR ALL AREAS DURING CONSTRUCTION.

GENERAL FIRE PROTECTION NOTES:

- A. AREA UNDER RENOVATION IS TO BE FULLY SPRINKLERED. SPRINKLER SYSTEM DESIGN AND LAYOUT TO BE IN COMPLIANCE WITH NFPA 13. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
- B. REMOVE ALL AUTOMATIC SPRINKLER HEADS PRESENTLY INSTALLED IN THE AREA OF RENOVATION AND TURN OVER TO THE OWNER. FIELD VERIFY LOCATION OF EXISTING HEADS AND SPRINKLER PIPING LOCATION PRIOR TO DESIGN & INSTALLATION. CONNECT NEW SPRINKLER HEADS TO EXISTING MAINS IF FEASIBLE.
- C. ALL SPRINKLERS LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE MIDDLE OF THE CEILING TILES UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL SERIES DRAWINGS.



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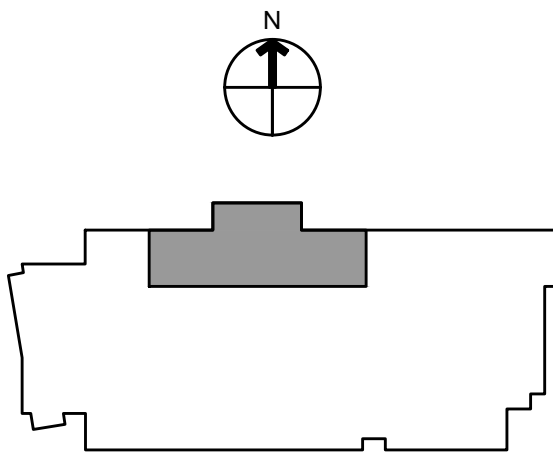


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