

# MATTHAEI ACADEMIC RESOURCE CENTER RENOVATION AND SAB SHOWER RENOVATION

5101 John C Lodge Fwy,  
Detroit, MI 48202

## ARCHITECT

STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MICHIGAN 48067  
(248) 546-6700

## 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/ASHRAES 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 MATTHAEI - EDUCATION: E  
2012 ADDITION - BUSINESS: B

## SHEET DESIGNATION

DRAWINGS ARE NUMBERED ACCORDING TO THE FOLLOWING CONVENTIONS:

**A001**

DISCIPLINE DESIGNATOR

DRAWING TYPE DESIGNATOR

G GENERAL  
LS LIFE SAFETY  
AD ARCHITECTURAL  
DEM DEMOLITION  
A ARCHITECTURAL  
P PLUMBING  
M MECHANICAL  
E ELECTRICAL

0 GENERAL, LEGENDS  
1 PLANS  
2 REFLECTED CEILING PLANS  
3 EXTERIOR ELEVATIONS  
4 SECTIONS  
5 VERTICAL CIRCULATION (PLANS & SECTIONS)  
6 ENLARGED PLANS AND INTERIOR ELEVATIONS  
7 INTERIOR AND MILLWORK DETAILS  
8 FREE SECTION  
9 DOOR AND WINDOW SCHEDULES AND DETAILS

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
DRAWINGS: 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
DRAWINGS: 1			

SHEET INDEX - ARCHITECTURAL			
DWG #	DRAWING NAME	ISSUED FOR	DATE
AD100	ARCHITECTURAL DEMOLITION PLANS	BULLETIN #1	08.24.22
A110	FIRST LEVEL NEW CONSTRUCTION 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
DRAWINGS: 4			

SHEET INDEX - MECHANICAL			
DWG #	DRAWING NAME	ISSUED FOR	DATE
M000	MECHANICAL SYMBOLS LIST, INDEX,	BID / PERMIT	07.07.22
M100	DEMOLITION & NEW WORK	BID / PERMIT	07.07.22
DRAWINGS: 2			

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
DRAWINGS: 3			

NOTE:  
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.

## MATERIAL LEGEND

### HATCH PATTERNS

	EARTH
	SAND
	GRAVEL FILL
	CONCRETE
	MASONRY
	GROUT
	MORTAR
	STEEL
	STAINLESS STEEL
	RIGID INSULATION
	GYPSUM BOARD
	CEMENT BOARD

### TYPICAL DETAIL SYMBOLS

	STEEL MEMBER
	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
	CONCRETE WALL

## SYMBOL LEGEND

	ENLARGED CALLOUT TAG
	INTERIOR ELEVATION TAG
	EXTERIOR ELEVATION TAG
	DETAIL NUMBER
	VIEW TITLE
	VIEW SCALE
	SHEET NUMBER

ROOM NAME	ROOM TAG
ROOM NAME	101

FLOOR NAME	LEVEL REFERENCE
ELEV. 100'-0"	

	DATUM WORKPOINT
	COLUMN GRIDS
	NUMBERS DESIGNATE VERTICAL COLUMN LINES
	LETTERS DESIGNATE HORIZONTAL COLUMN LINES
	SQUARE DESIGNATE EXISTING COLUMN GRID

	DOOR TAGS
	NEW DOOR TAG DESIGNATION
	EXISTING DOOR TAG DESIGNATION (ONLY IF EXISTING DOOR TO BE MODIFIED)

	PARTITION TAG
--	---------------

	KEYNOTE TAG
--	-------------

	EQUIPMENT TAG
--	---------------

## ABBREVIATION LEGEND

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

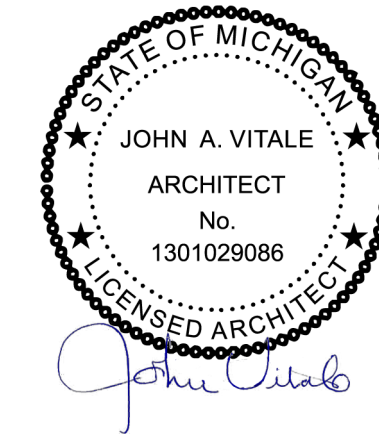


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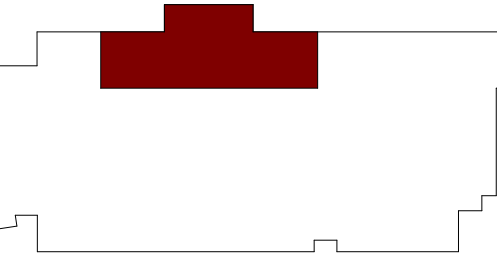
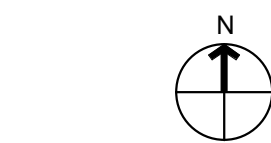
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Project :

MATTHAEI ACADEMIC  
RESOURCE CENTER  
RENOVATION AND SAB  
SHOWER RENOVATION  
5101 John C Lodge Fwy,  
Detroit, MI 48202

Key Plan:



Issued for

BID / PERMIT 07.07.22

Drawn by :  
SVA

Checked by :  
JAV, MJB, AJD

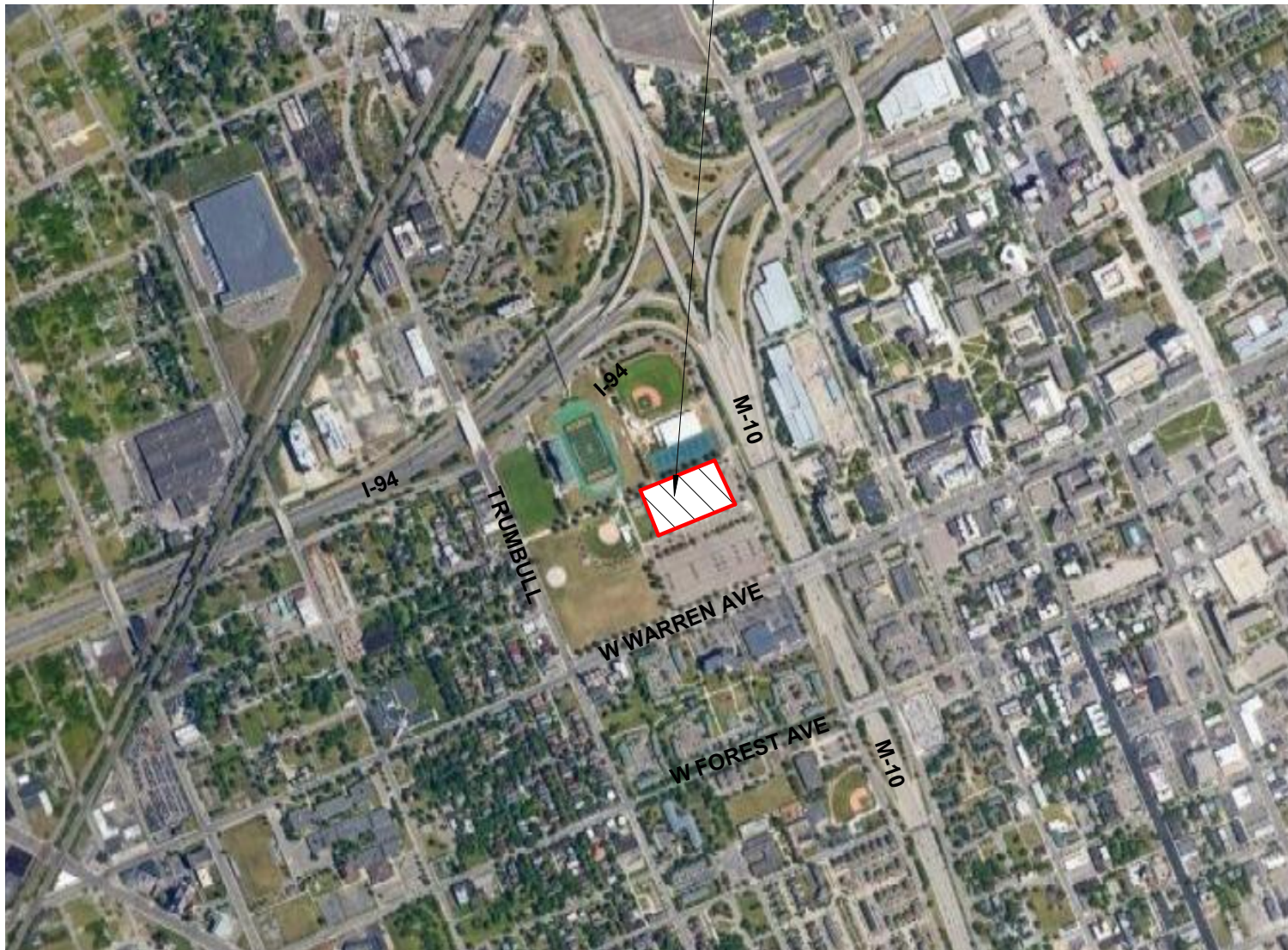
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COVER SHEET, GENERAL  
INFORMATION, DRAWING  
INDEX

Project No. :

2022.038

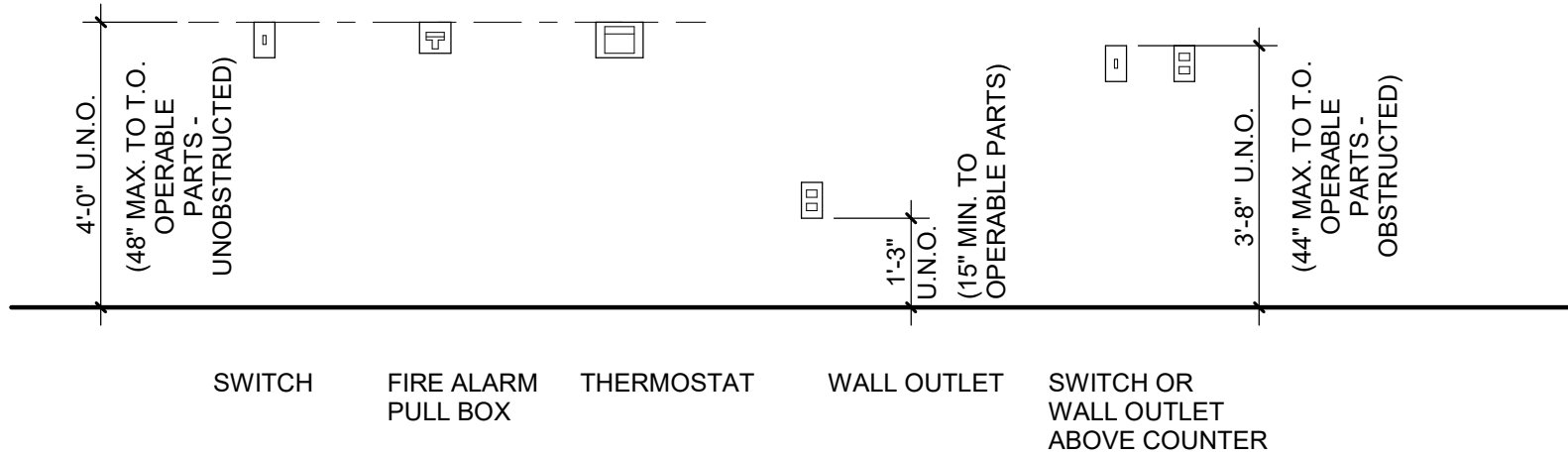
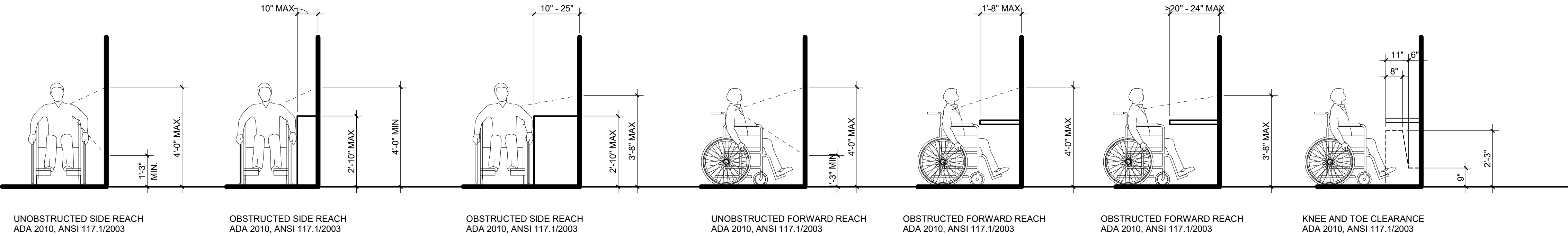
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G001



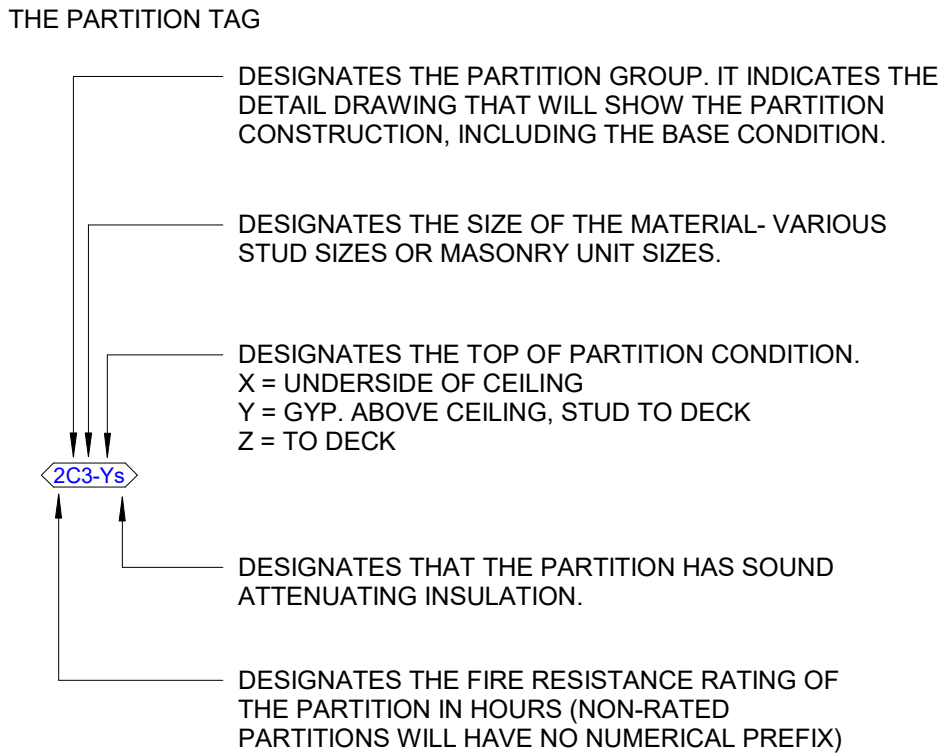
LOCATION MAP  
6" = 1'-0"

TYPICAL MOUNTING LEGEND

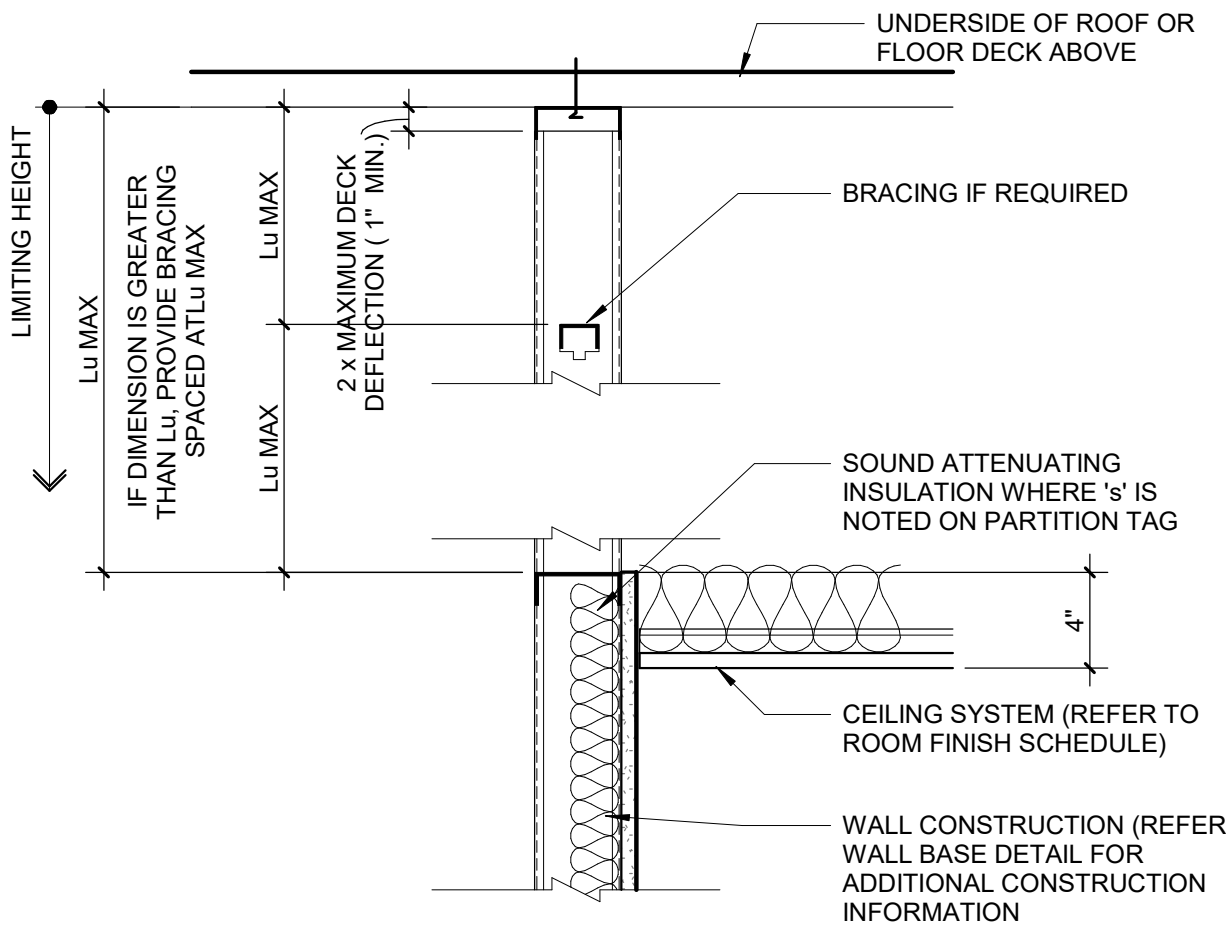


INTERIOR PARTITION SCHEDULE											
TYPE	DESCRIPTION	WIDTH		DET'L	STUD		UL DESIGN				REMARKS
		NOMINAL	ACTUAL		DEPTH	THICK	1 HR	2 HR	OTHR	STC*	
A2	1 GYP, 1 SIDE ON 1 1/2" Z-FURRING	0" - 2 1/4"	2 1/8"	X/XXX	1 1/2"	18 MIL	--	--	--	29	--
B2	1 GYP, 1 SIDE ON 3 5/8" METAL STUDS	0" - 4 1/4"	4 1/4"	X/XXX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

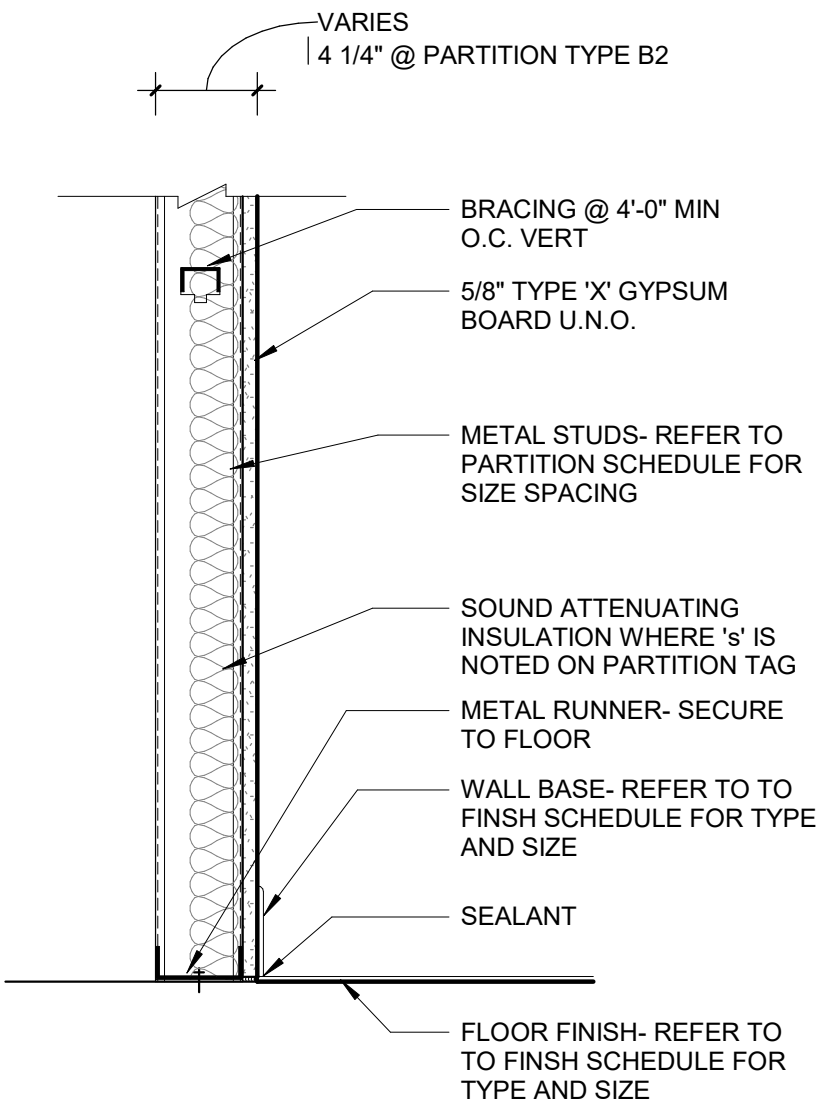
PARTITION LEGEND



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"

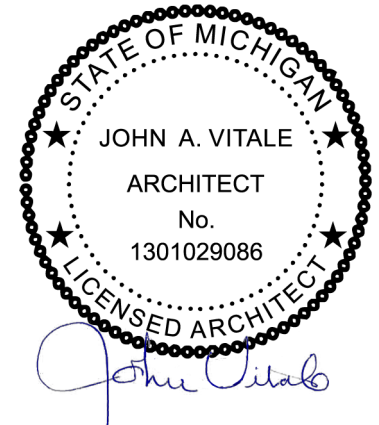


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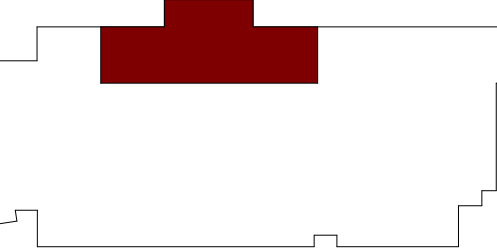
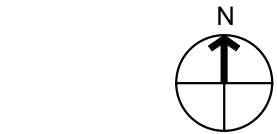
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Project :  
MATTHAEI ACADEMIC  
RESOURCE CENTER  
RENOVATION

5101 John C Lodge Fwy,  
Detroit, MI 48202

Key Plan:



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BID / PERMIT 07.07.22

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Sheet Title :  
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	COMPONENT NAME
0	MAXIMUM CALCULATED OCCUPANT CAPACITY
330	PROVIDED EGRESS WIDTH (INCHES)
66"	COMPONENT TYPE
	COMPONENT CAPACITY FACTOR
	CALCULATED EGRESS WIDTH
	OCCUPANT LOAD

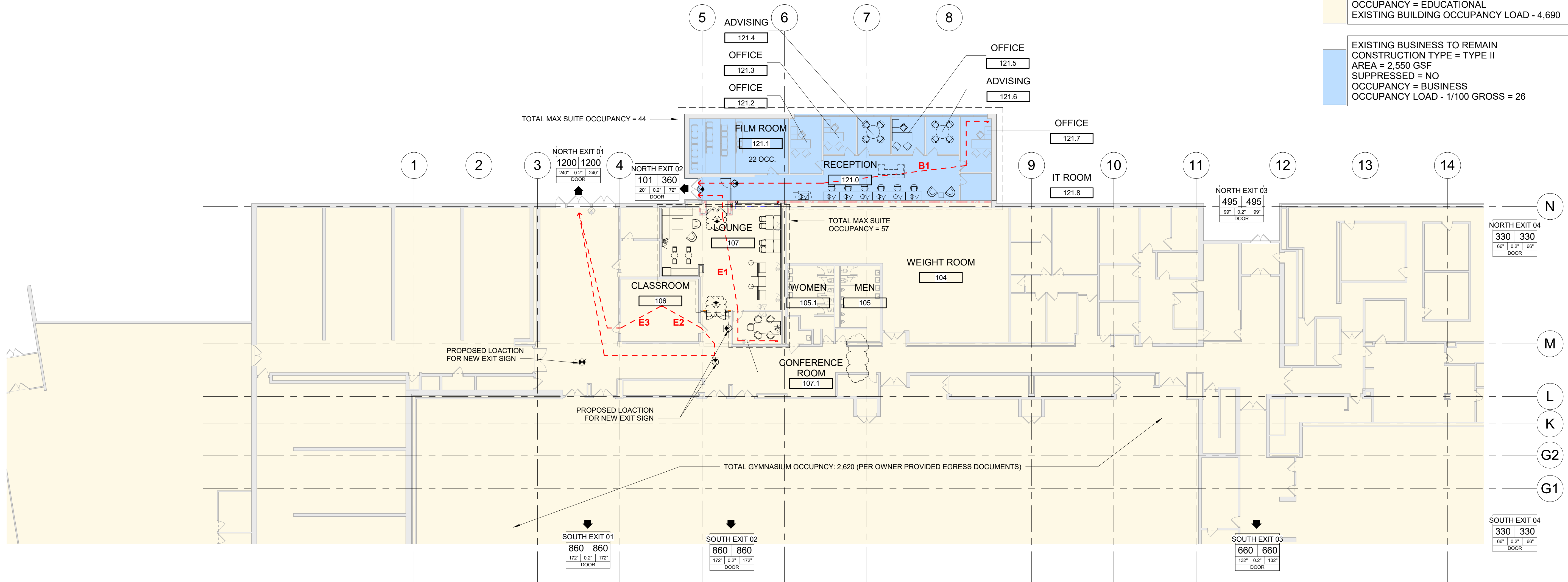
EGRESS TRAVEL DISTANCE SCHEDULE

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

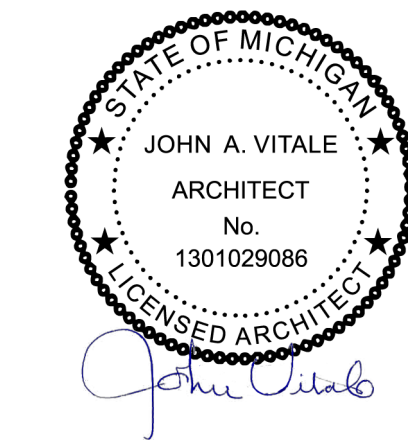
EXISTING EDUCATIONAL BUILDING OCCUPANT LOAD	= 4,690
EXISTING BUSINESS + EDUCATIONAL OCCUPANT LOAD	= 101
TOTAL FACILITY OCCUPANT LOAD	= 4,791
TOTAL OCCUPANT EGRESS CAPACITY PROVIDED	= 5,095

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



Seal:

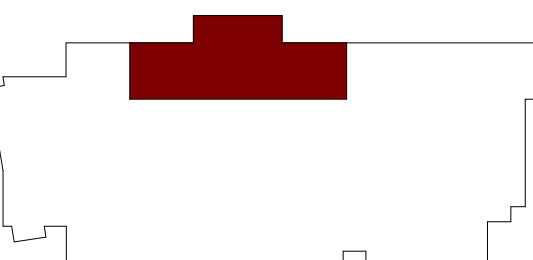


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CODE INFORMATION AND  
FLOOR LIFE SAFETY PLAN -  
EGRESS PLANS

Project No. :

2022.038

Sheet No. :

LS110



### DEMOLITION RCP LEGEND



- ### DEMOLITION PLAN LEGEND

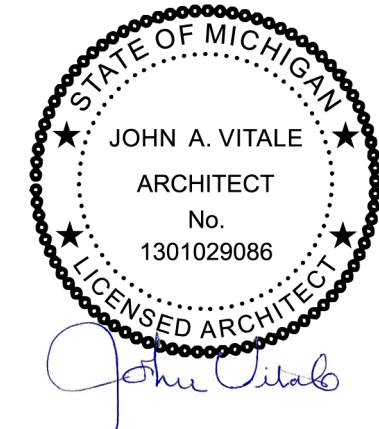


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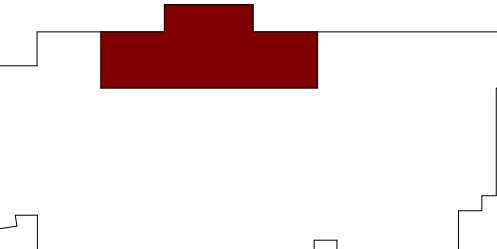
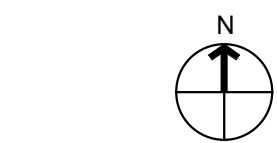


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JML

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JAV, MJB, AJD

Sheet Title :

ARCHITECTURAL DEMOLITION  
PLANS

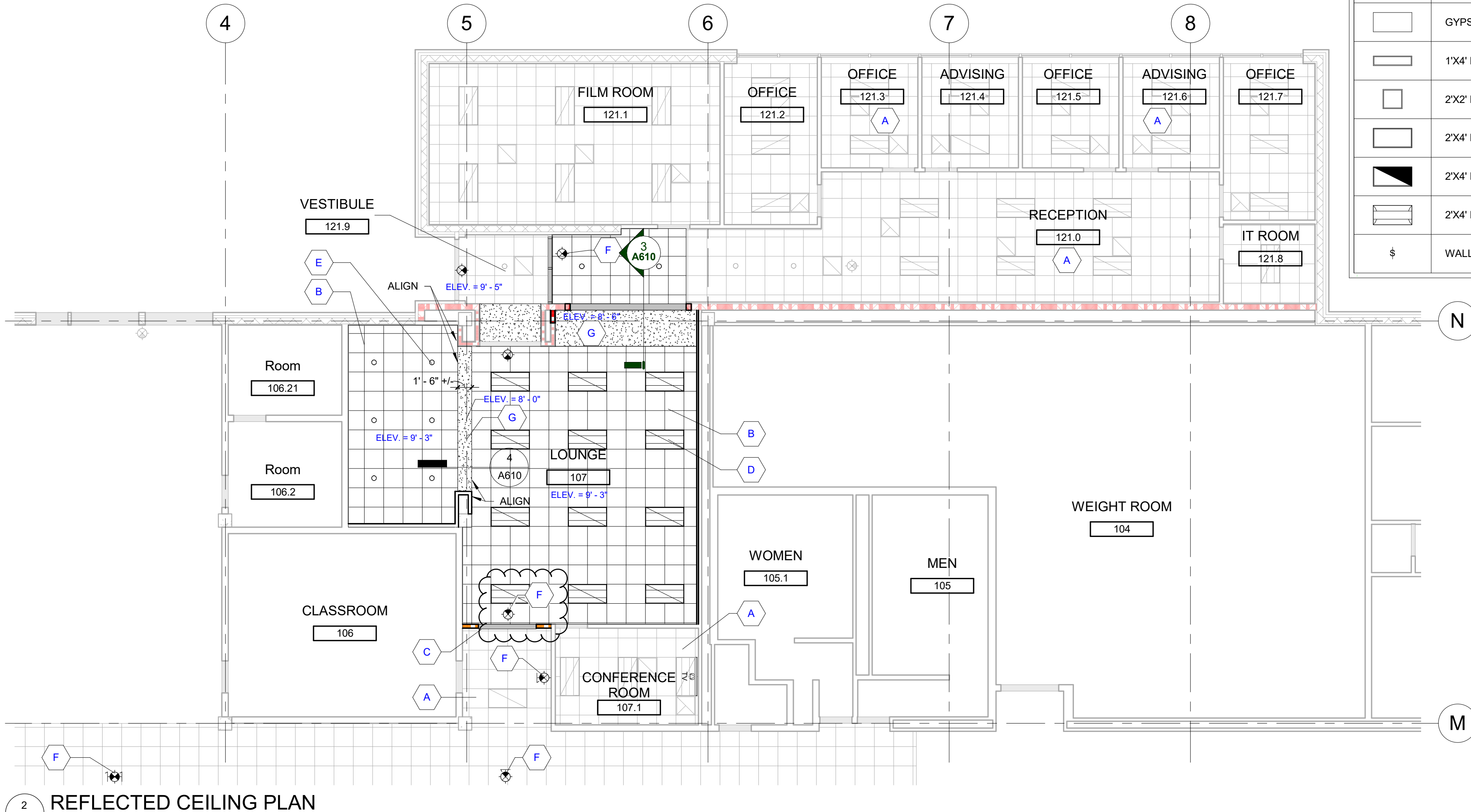
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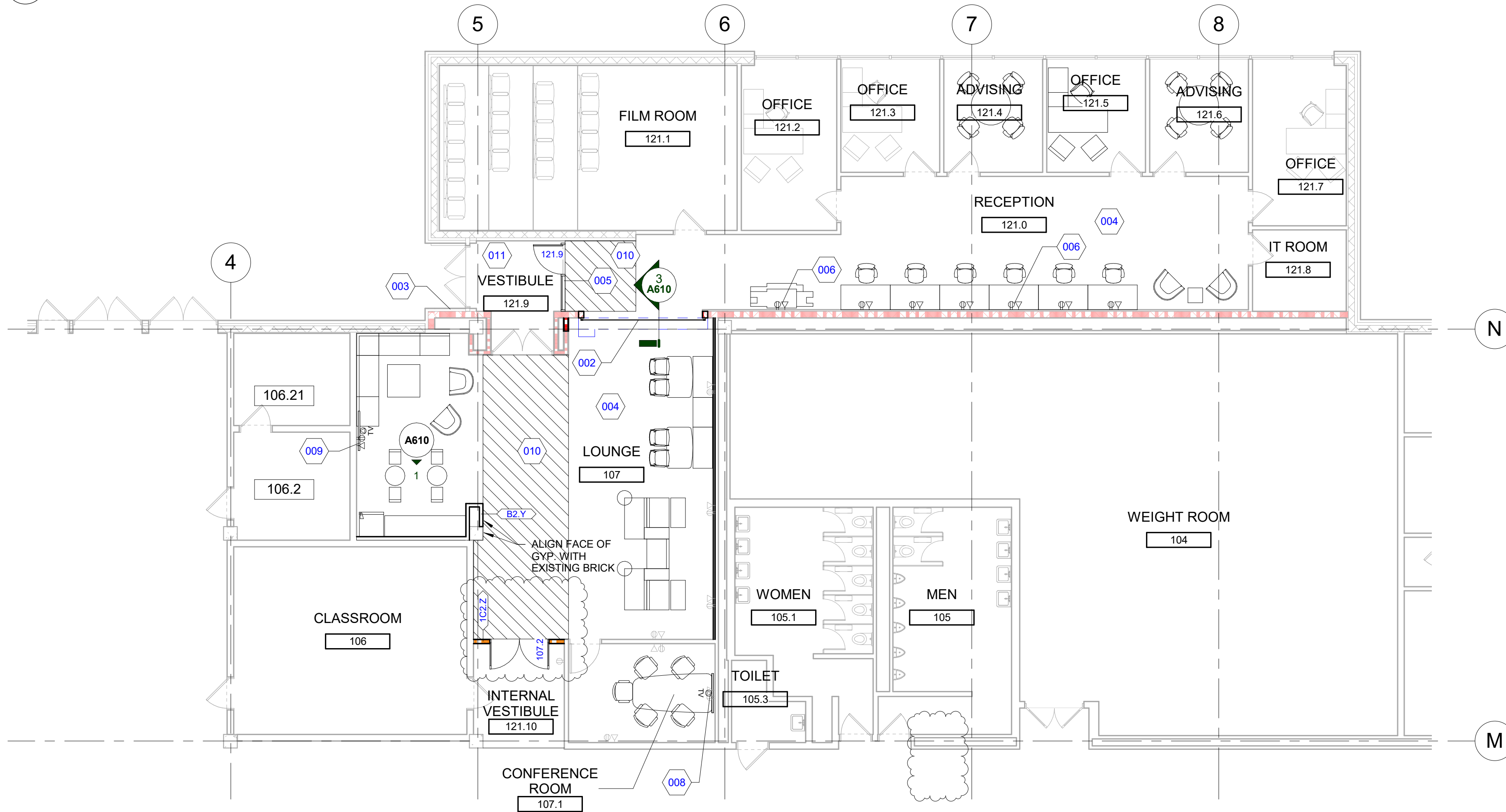
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# AD100

DO NOT SCALE DRAWINGS



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 SCENCE 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.

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.
- 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.
- 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.

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
002	NEW 2HR FIRE CURTAIN - BOD: OVERHEAD DOOR COMPANY FIREKING 634 STRUCTURAL SUPPORT MAY BE REQUIRED.
003	OWNER TO INSTALL SECURITY 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 EXISTING 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.

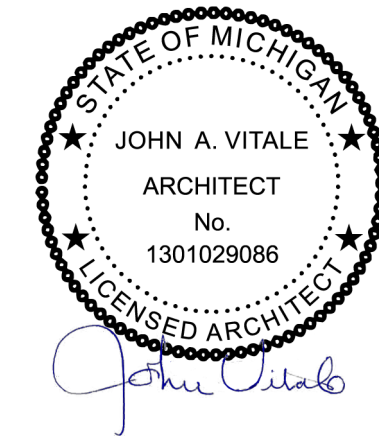


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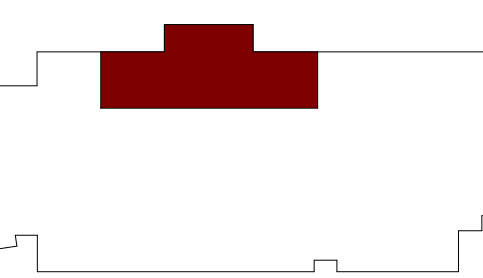
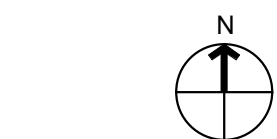


Project:

MATTHAEI ACADEMIC  
RESOURCE CENTER  
RENOVATION

5101 John C Lodge Fwy,  
Detroit, MI 48202

Key Plan:



Issued for

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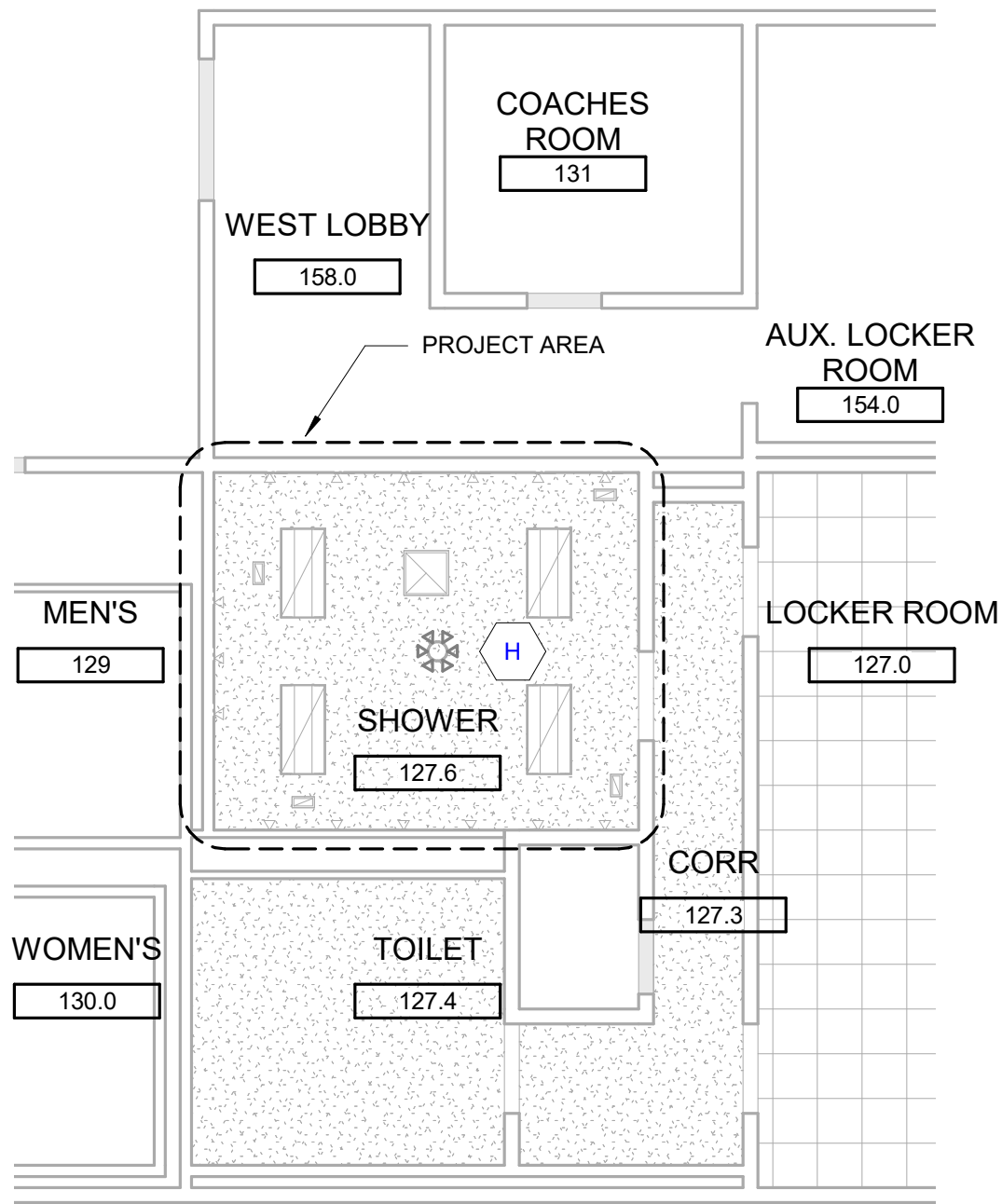
FIRST LEVEL NEW  
CONSTRUCTION AND RCP

Project No.:

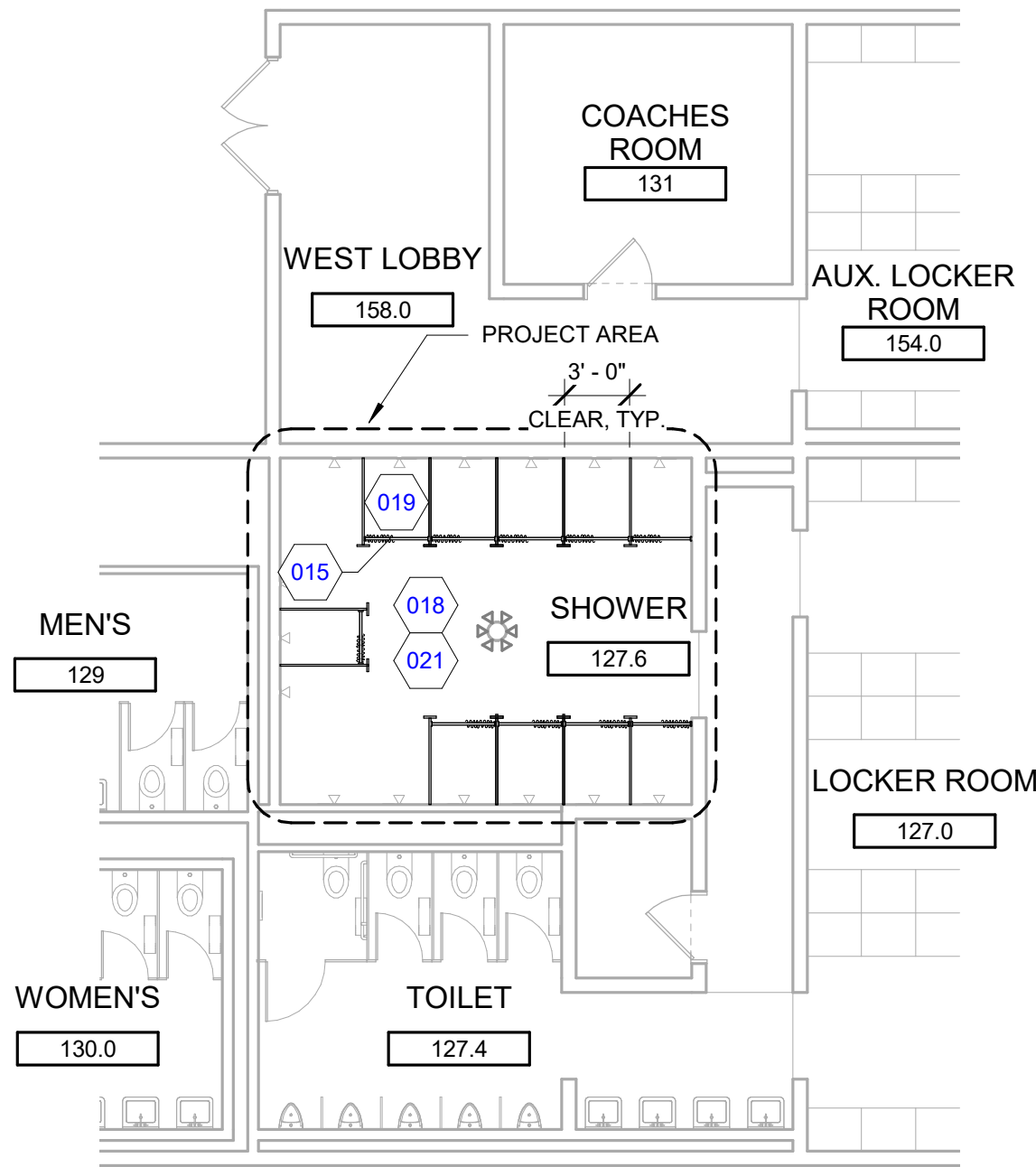
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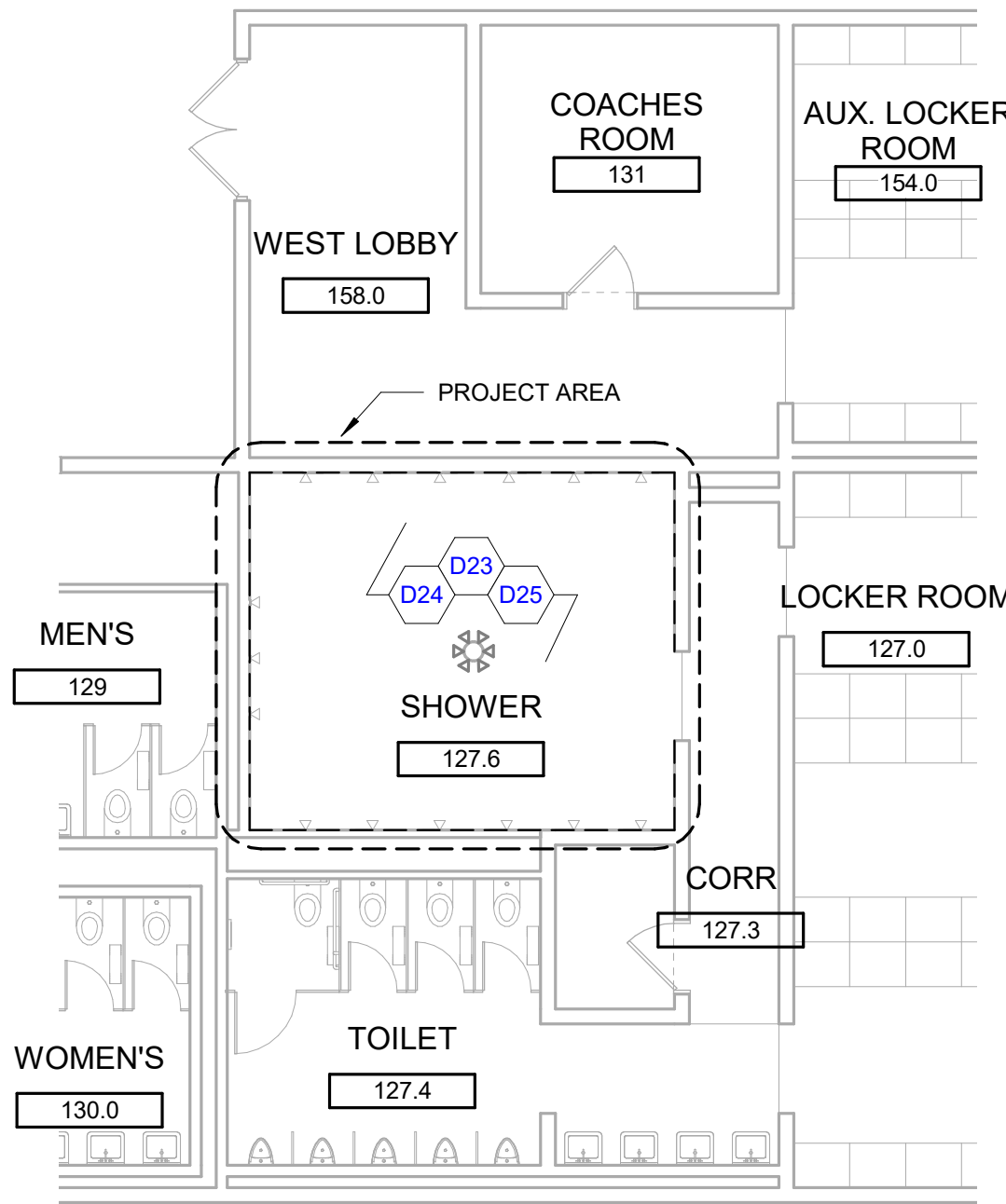
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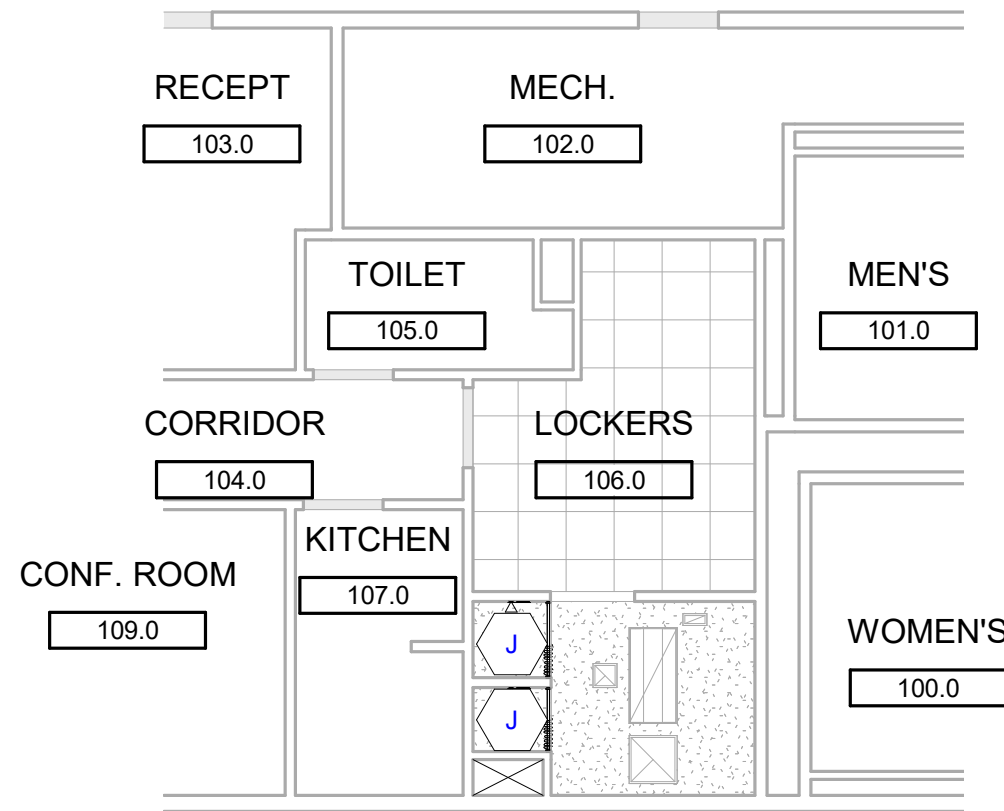
7 REFLECTED CEILING PLAN - PLAYER SHOWER  
A120 1/8" = 1'-0"



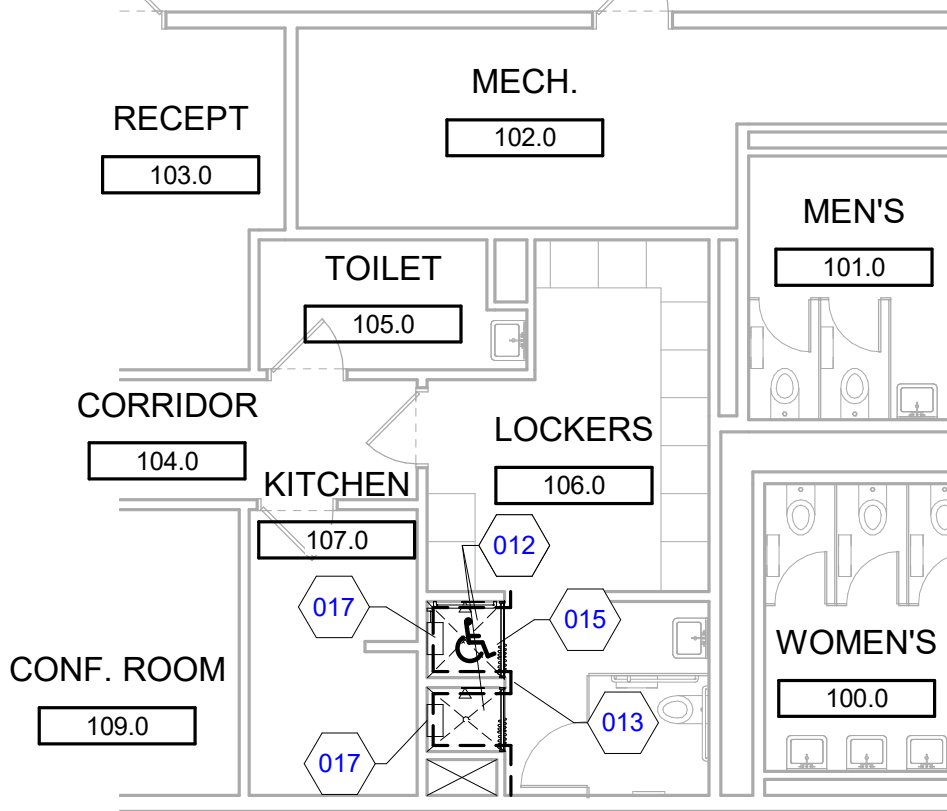
5 CONSTRUCTION PLAN - PLAYER SHOWER  
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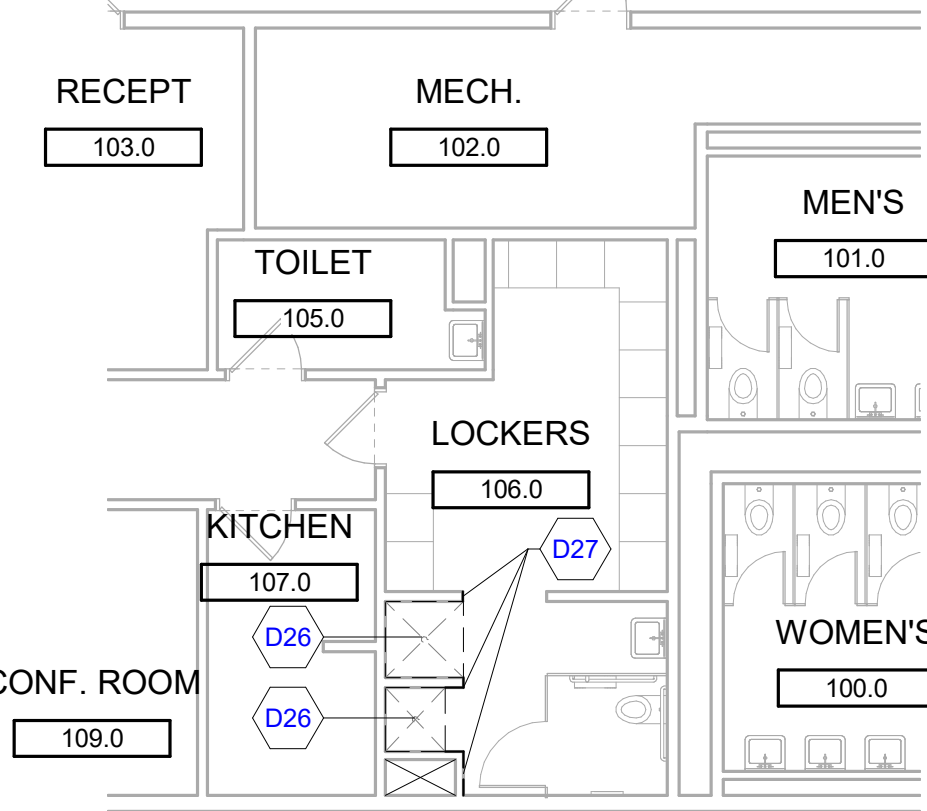
3 DEMOLITION PLAN - PLAYER SHOWER  
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6 REFLECTED CEILING PLAN - COACH SHOWER  
A120 1/8" = 1'-0"



4 CONSTRUCTION PLAN - COACH SHOWER  
A120 1/8" = 1'-0"



2 DEMOLITION PLAN - COACH SHOWER  
A120 1/8" = 1'-0"

RCP KEYNOTE LEGEND	
KEYNOTE	KEYNOTE DESCRIPTION
H	CLEAN AND PREPARE EXISTING CEILING AND CEILING MOUNTED ELEMENTS FOR NEW HIGH MOISTURE RESISTANT PAINT - BOD - SHERWIN WILLIAMS - COLOR TBD.
J	NEW CEILING TILE IN SHOWER - BOD: BEAVER TILE AND STONE, OLYMPIA AIR SERIES, GRAFITE, MATTE - ENTIRE SHOWER INTERIOR. PROVIDE ALTERNATE PRICED TO REMOVE TILE FROM CEILING SCOPE AND REPLACE WITH PAINTED CEILING.

NEW CONSTRUCTION KEYNOTE LEGEND	
KEYNOTE	KEYNOTE DESCRIPTION
012	NEW FLOOR AND WALL TILE IN SHOWER - BOD: BEAVER TILE AND STONE, OLYMPIA AIR SERIES, GRAFITE, MATTE - ENTIRE SHOWER INTERIOR.
013	NEW WALL TILE AND SCHLUTER STRIP - BOD: BEAVER TILE AND STONE, OLYMPIA AIR SERIES, GRAFITE, MATTE.
015	NEW SHOWER ROD - BOD: BOBRICK B-6107. OWNER TO PROVIDE CURTAIN.
017	NEW SHOWER WALL SHELF-BOD: BOBRICK B-295.
018	NEW ACRYLIC RESIN RE-FINISHING OVER EXISTING TILE - BOD - MIRACLE METHOD. CONTACT JENNIFER YAUCH. COLOR TBD WITH OWNER.
019	NEW FLOOR MOUNTED PHENOLIC TOILET/SHOWER PARTITION. SUBMIT FINISH BOOKLET FOR OWNER SELECTION. ALTERNATE #1: DEDUCT PHENOLIC TOILET/SHOWER PARTITIONS AND SHOWER ROD SCOPE IN SHOWER 127.6.
021	PROVIDE NEW HIGH MOISTURE RESISTANT PAINT ON EXISTING CMU WALLS. BOD-SHERWIN WILLIAMS-COLOR TBD.

DEMOLITION KEYNOTE LEGEND	
KEYNOTE	KEYNOTE DESCRIPTION
D23	CLEAN AND PREPARE EXISTING TILE FLOOR TO RECEIVE NEW POURED FINISH - PROTECT EXISTING FLOOR DRAINS AND SHOWER TOWER DURING CONSTRUCTION.
D24	CLEAN, PATCH AND REPAIR EXISTING CEILING TO RECEIVE NEW MOISTURE RATED PAINT.
D25	CLEAN AND PREPARE EXISTING CMU BLOCK WALL TO RECEIVE NEW MOISTURE RATED PAINT - PROTECT SHOWER HEADS AND ACCESSORIES DURING CONSTRUCTION.
D26	REMOVE EXISTING SHOWER UNIT AND ACCESSORIES.
D27	REMOVE EXISTING WALL TILE AND PREP FOR NEW TILE.

#### GENERAL PLAN NOTES

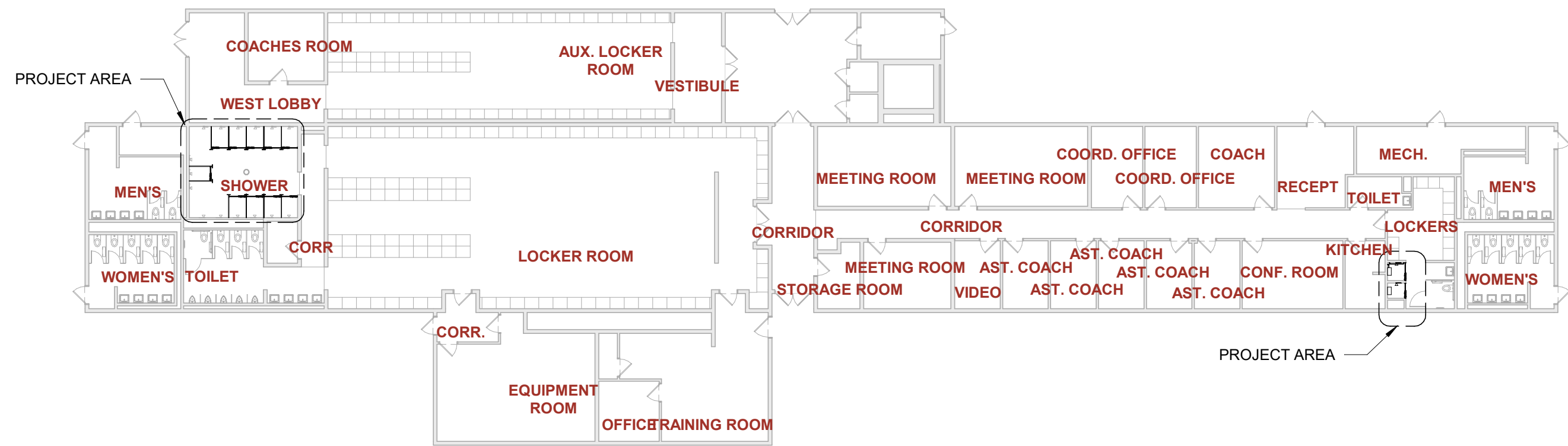
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- COORDINATE WITH OWNER'S EQUIPMENT SUPPLIER FOR INSTALLATION REQUIREMENTS / LOCATIONS OF FLOOR / WALL / CEILING MOUNTED ITEMS; IE. CAMERAS, TV'S, SPEAKERS, SENSORS, SECURITY WIRING, VAULTS, ATM'S.
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- 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.

#### 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.

#### DEMOLITION PLAN LEGEND

- 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.
- COORDINATE SCOPE AND EXTENT OF DEMOLITION WORK WITH NEW WORK PLANS AND DETAILS.
- 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.
- 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.)
- ALL EQUIPMENT, DOORS, FRAMES, RELATED HARDWARE, AND DESIGNATED ITEMS TO BE SALVAGED SHALL BE REMOVED, PROTECTED FROM DAMAGE, AND STORED FOR REUSE.
- CLEAN AND REPAIR ALL EXISTING FLOOR FINISHES AS NECESSARY.
- 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.
- 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.
- REFER TO MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION.
- GENERAL PRECAUTIONS SHALL BE TAKEN AS NECESSARY TO HOLD ALL DISRUPTION, DUST, DIRT, NOISE, AND DEBRIS TO A MINIMUM.
- THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH OWNER TO ENSURE THAT IMPACTS ON THE BALANCE OF THE BUILDING ARE HELD TO A MINIMUM.
- PREPARE ALL SURFACES TO RECEIVE THE NEW WORK AND FINISHES OF THE CONTRACT.
- 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-ASSEMBLIES ARE COMPLETE, SELF-SUPPORTING AND/OR STABLE.
- CONTRACTOR TO HOLD A PRE DEMOLITION WALK-THRU WITH OWNER AND SUBCONTRACTORS
- SALVAGE AND RETURN SIGNAGE TO OWNER
- FIRE ALARM DEVICES EXISTING, TO BE REMOVED, OR RELOCATED (TYP.) IT IS A NATIONAL TIME SYSTEM



1 AREA PLAN - FOOTBALL LOCKER RENOVATION  
A120 1" = 20'-0"



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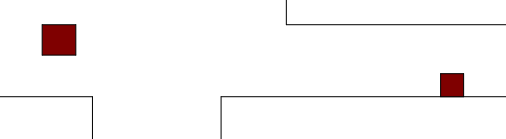
Seal:

Project :

MATTHAEI ACADEMIC  
RESOURCE CENTER  
RENOVATION AND SAB  
SHOWER RENOVATION

5101 John C Lodge Fwy,  
Detroit, MI 48202

Key Plan:



Issued for

BULLETIN #2 11.09.22

Drawn by :

ARR

Checked by :

ARR

Sheet Title :

SAB DEMOLITION, NEW WORK  
AND CEILING PLANS

Project No. :

2022.038

Sheet No. :

A120

## 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", 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		-		-	
				12000 - SIMULATED STONE	
		SS-1		SIMULATED STONE MANUFACTURER: WILSONART MODEL: QUARTZ PRODUCT #: Q6012 COLOR: GREY WOLF THICKNESS: 3 CM	

### FINISH SCHEDULE

RM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL PAINT				REMARKS
				NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	
107	LOUNGE	CT-1 - SEE NOTE 004 ON SHEET A110	RB-1	MATCH RECEPTION	MATCH RECEPTION	MATCH RECEPTION	MATCH RECEPTION	MILLWORK TO BE PL-1 AND SS-1
107.1	CONFERENCE ROOM	EXIST'G TO REMAIN	EXIST'G TO REMAIN					
121.0	RECEPTION	EXIST'G TO REMAIN	EXIST'G TO REMAIN	PATCH AND RE-PAINT AS NECESSARY	PATCH AND RE-PAINT AS NECESSARY	PATCH AND RE-PAINT AS NECESSARY	PATCH AND RE-PAINT AS NECESSARY	
121.4	ADVISING	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	
121.6	ADVISING	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	EXIST'G TO REMAIN	
121.9	VESTIBULE	EXIST'G TO REMAIN	EXIST'G TO REMAIN					
121.10	INTERNAL VESTIBULE	EXIST'G TO REMAIN	EXIST'G TO REMAIN	MATCH EXIST'G CORRIDOR	MATCH EXIST'G CORRIDOR	N/A	MATCH EXIST'G CORRIDOR	

Level 1: 7

TOTAL ROOMS: 7

#### DOOR HARDWARE GENERAL NOTES:

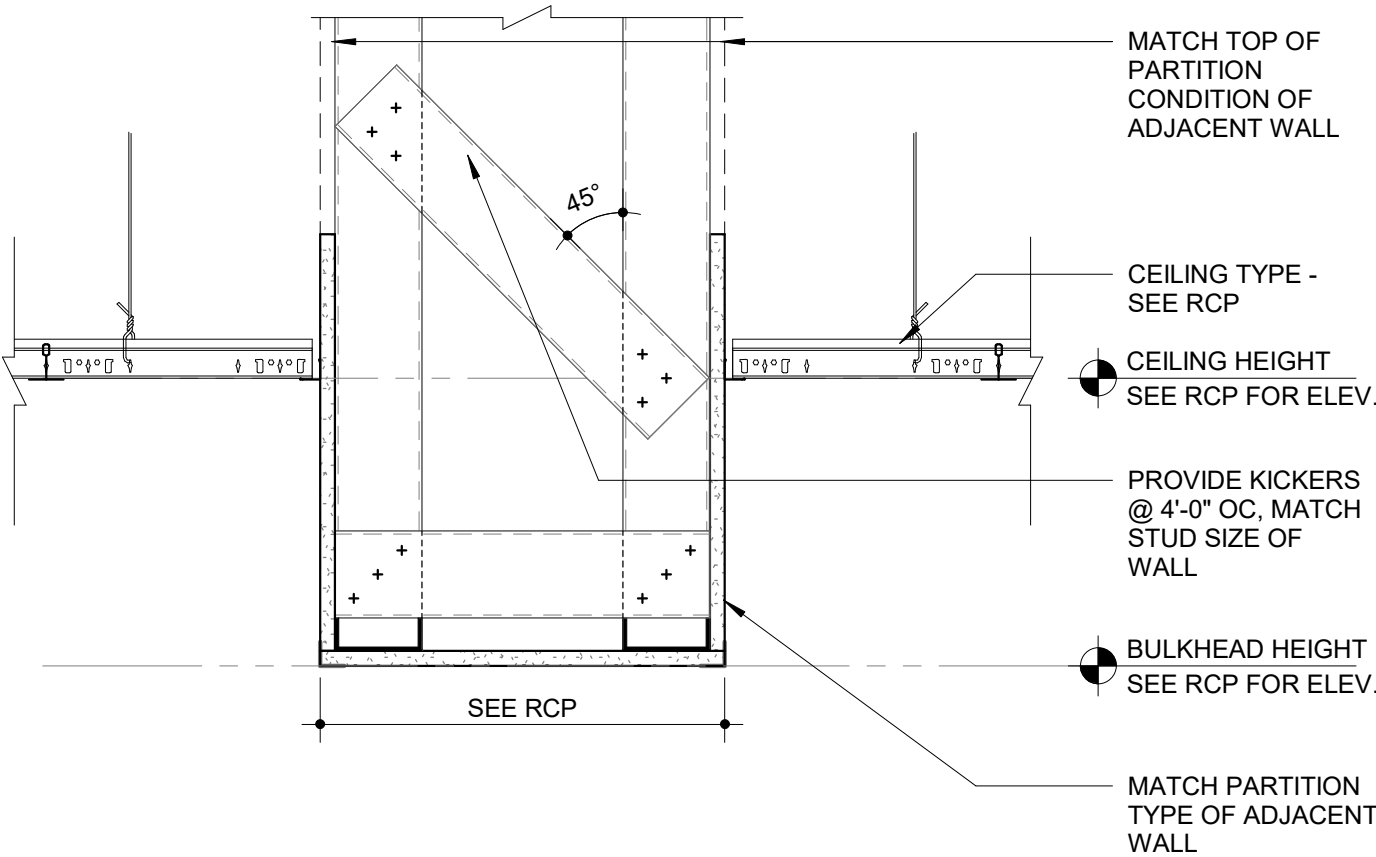
- CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS AND NOTIFY ARCHITECT IMMEDIATELY IF THAT WHICH EXISTS DIFFERS FROM THAT WHICH IS SHOWN ON DRAWINGS.
- ALL WORK TO COMPLY WITH CURRENT FEDERAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES. THE REQUIREMENTS OF ICC/ANSI A117.1 AND THE AMERICANS WITH DISABILITIES ACT (ADA) ARE TO BE FULLY SATISFIED. ALL WORK SHALL MEET THE MOST STRINGENT REQUIREMENTS OF BOTH INCLUDING, BUT NOT LIMITED TO CLEARANCES, LIMITATIONS, ACCESSORIES, ETC.
- THESE DRAWINGS ARE PREPARED IN ACCORDANCE WITH THE LIMITED SERVICES FOR WHICH THE ARCHITECT WAS CONTRACTED. THE ARCHITECT MAKES NO REPRESENTATION THAT THE INTERPRETATION OF THESE DOCUMENTS WILL RESULT IN COMPLETE COMPLIANCE WITH THE ADA.
- ALL DOORS REQUIRED TO BE LABELED SHALL BE SET IN LABELED FRAMES AND IDENTIFIED WITH UL LABEL AND BE PROVIDED WITH APPROVED SELF-CLOSING DEVICES AND POSITIVE LATCHING HARDWARE.
- ALL DESIGNATED EXIT DOORS SHALL BE EQUIPPED WITH THE REQUIRED EGRESS HARDWARE.
- FURNISH HARDWARE AS SCHEDULED WITHOUT SUBSTITUTION, NO ALTERNATES WILL BE APPROVED.
- PROVIDE PDQ CYLINDERS, COMBINATION IC CORES AND KEYS; KEYED TO MASTER SYSTEM. INCLUDE KEY CONFERENCE AND KEY SYSTEM SCHEDULE. WHERE "PDQ2" IS INDICATED, FURNISH A KEYED CORE AND TWO CUT KEYS FOR EACH LOCKING DEVICE SPECIFIED; PLUS SIX MASTER KEYS AND TWO CONTROL KEYS.
- PROVIDE ONE EACH LUND 1200 SERIES WALL KEY CABINET. PROVIDE A COMPLETE SYSTEM, INCLUDING ALL ACCESSORIES - KEY GATHERING ENVELOPES, HOOK LABELS, PERMANENT KEY TAGS, TEMPORARY KEY TAGS, SIGNATURE RECEIPT FORMS, VISIBLE INDEX AND INSTRUCTION BOOK. PROVIDE WITH CAPACITY FOR 150 PERCENT OF THE NUMBER OF LOCKS REQUIRED FOR THE PROJECT.
- FURNISH AND PROVIDE ALL NECESSARY REINFORCEMENTS, BRACKETS, FASTENERS, SPACERS AND FILLERS TO PROVIDE A COMPLETE FUNCTIONING OPENING.
- PROVIDE COMPLETE SHOP DRAWINGS, SUBMITTALS AND CUT SHEETS COMPLYING WITH DHI PRESCRIBED METHODS AND VERTICAL FORMAT DOUBLE SPACED HARDWARE SCHEDULE.
- DOORS, FRAMES & HARDWARE TO BE FURNISHED BY DOOR HARDWARE SUPPLIER AS SPECIFIED. ACCESS CONTROL MODULES, READERS AND ACCESS CONTROL PERIPHERALS FURNISHED AND INSTALLED BY SECURITY VENDOR. LINE VOLTAGE, CIRCUITS, CABLE, BACK BOXES FURNISHED AND INSTALLED BY LICENSED ELECTRICIAN.

Hardware Set 1 - Push Pull Set [Always Unlocked] + Closer Stop  
(Requires min. 4" stiles, 6" top rail and 10" bottom rail)

6	ea.	Butt Hinge 4B81 4 1/2" x 4 1/2" NRP	26D	PBB
1	set	Custom WSU Handles, Coordinate with Owner	TBD	
2	ea.	Push Bar 147 x 4 1/4" Mount at loose ends	32D	Don Jo
2	ea.	Closer 7101 BC SCS Stop x DPPA-BS-NFB	689	PDQ

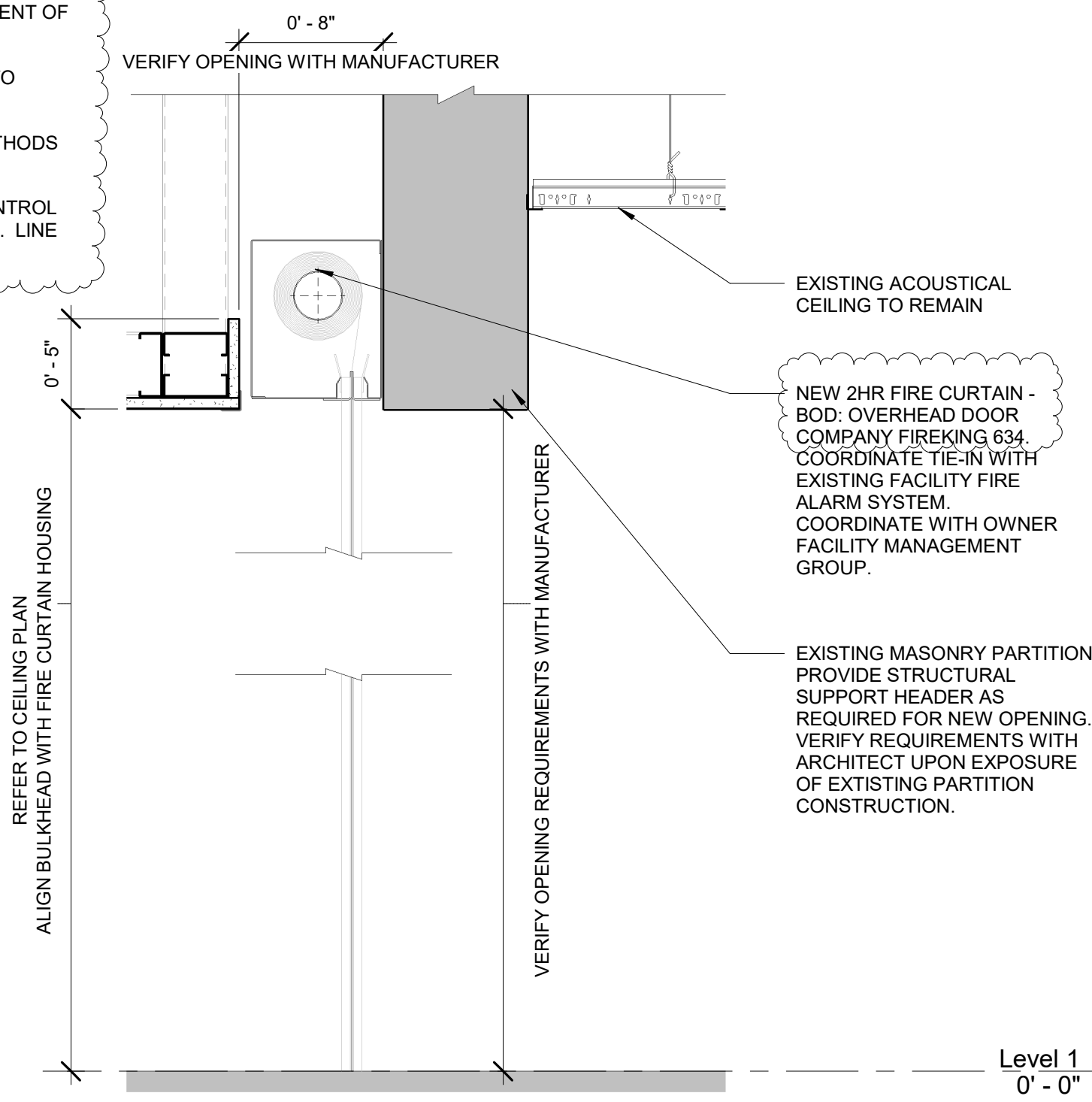
Hardware Set 2 - Rim Panic w/ Pull Trim [Lock / Unlock] + Closer Stop  
(Requires min. 4" stiles, 6" top rail and 10" bottom rail)

3	ea.	Butt Hinge 4B81 4 1/2" x 4 1/2" NRP	26D	PBB
1	ea.	Rim Panic 6400R CD (03)	32D	PDQ
1	ea.	Mortise Cylinder Housing I5307 (CD)	26D	PDQ
1	ea.	Rim Cylinder Housing I5308 (03)	26D	PDQ
2	ea.	SFIC Final Cores - By WSU	26D	WSU
1	ea.	Pull 1157 x 4 1/4" Mount	32D	Don Jo
1	ea.	Closer 7101 BC SCS Stop x DPPA-BS-NFB	689	PDQ



4 BULKHEAD DETAIL

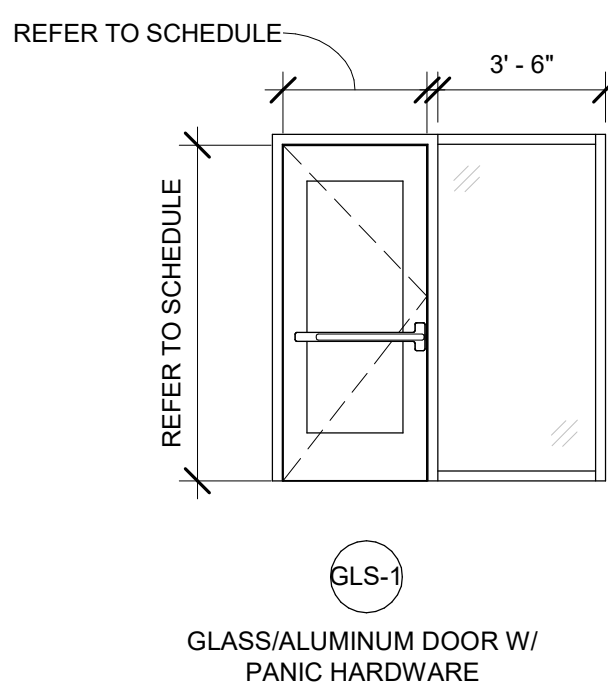
A610 1 1/2" = 1'-0"



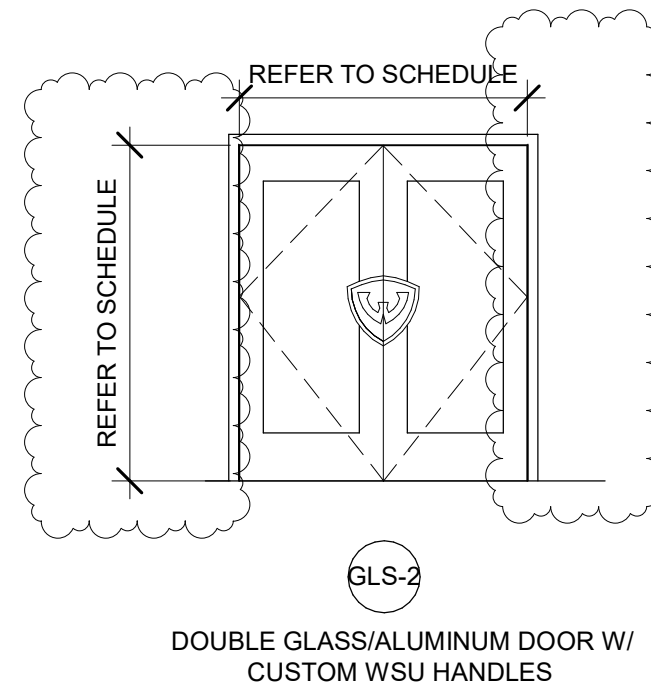
3 FIRE CURTAIN SECTION

A610 1 1/2" = 1'-0"

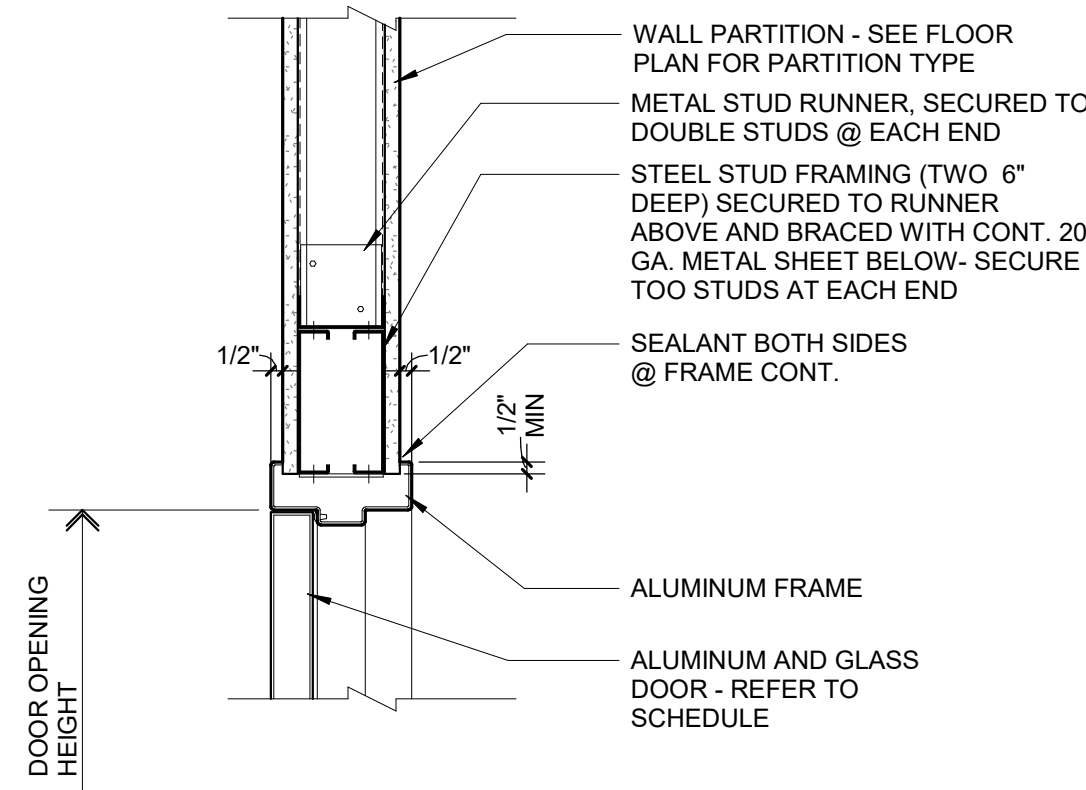
DOOR & FRAME SCHEDULE																
NUMBER	ROOM NAME	DOOR SIZE		HDWE SET	DOOR				THRESHOLD TYPE	FRAME			FIRE RATING	DETAILS		REMARKS
		WIDTH	HEIGHT		TYPE	MATERIAL	FINISH	GLASS		MATERIAL	FINISH	GLASS		HEAD	JAMB	
Level 1																
107.2	LOUNGE	6' - 0"	7' - 0"	1	GLS-2	ALUM	PFN	GL-2	PER MNF.	ALUM	PFN	-	20	6/A610	7/A610	COORDINATE CUSTOM DOOR HANDLE DESIGN WITH OWNER. PROVIDE FIRE RATED CERAMIC GLASS AS REQUIRED FOR 20MIN. RATING.
121.9	VESTIBULE	3' - 0"	7' - 0"	2	GLS-1	ALUM	PFN	GL-1	PER MNF.	ALUM	PFN	GL-	NA	6/A610	7/A610	



GLS-1 GLASS/ALUMINUM DOOR W/ PANIC HARDWARE

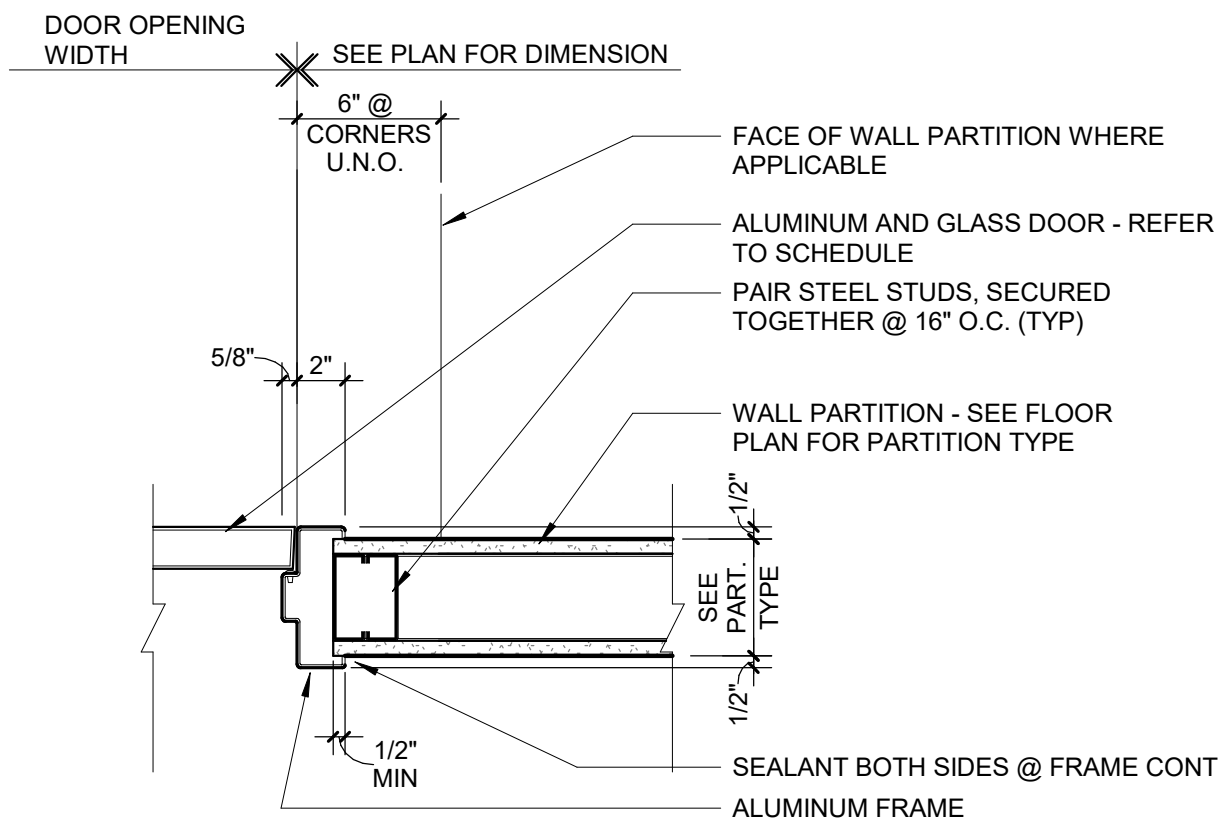


GLS-2 DOUBLE GLASS/ALUMINUM DOOR W/ CUSTOM WSU HANDLES



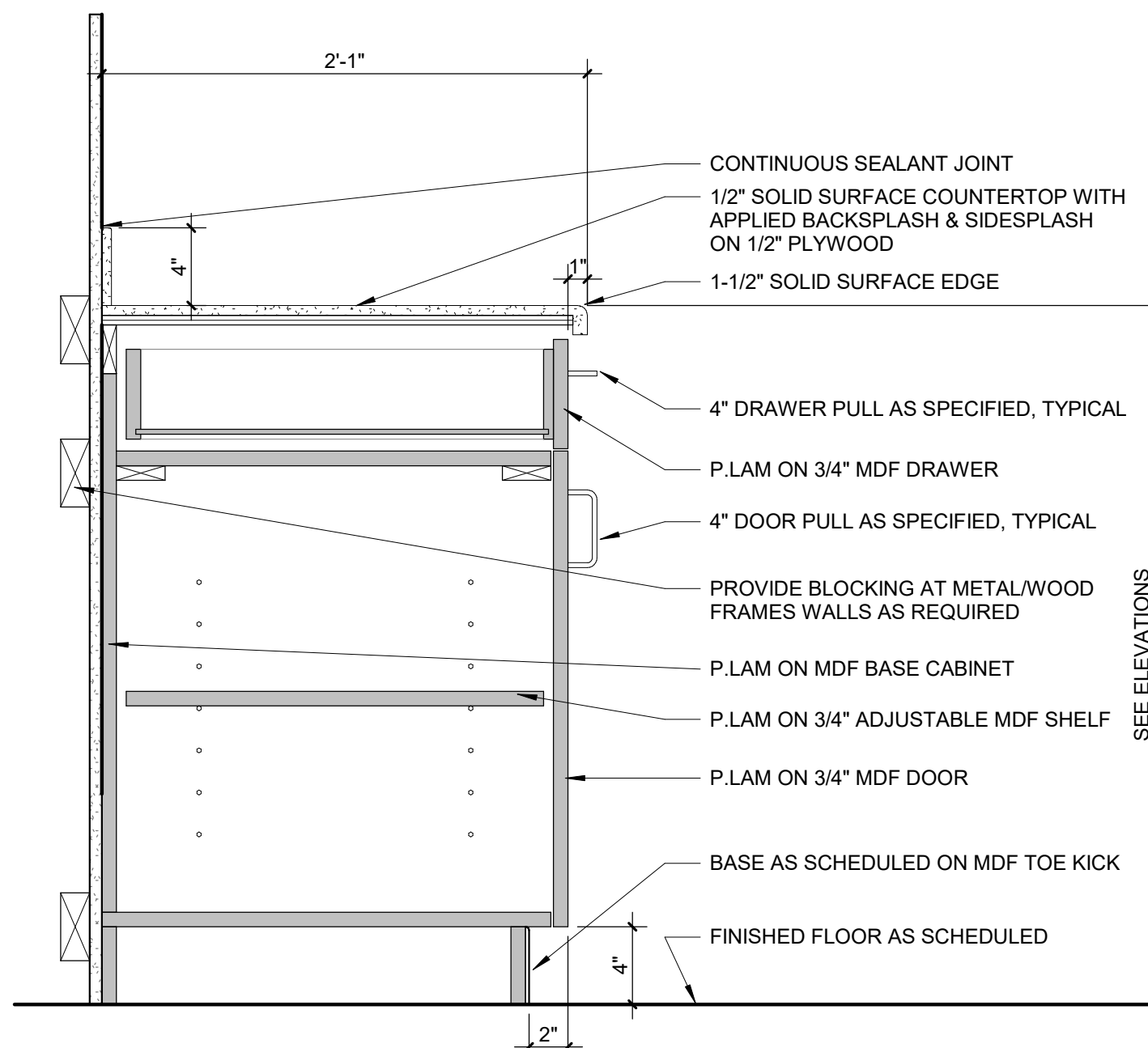
6 ALUMINUM HEAD AT STUD PARTITION DETAIL

A610 1 1/2" = 1'-0"



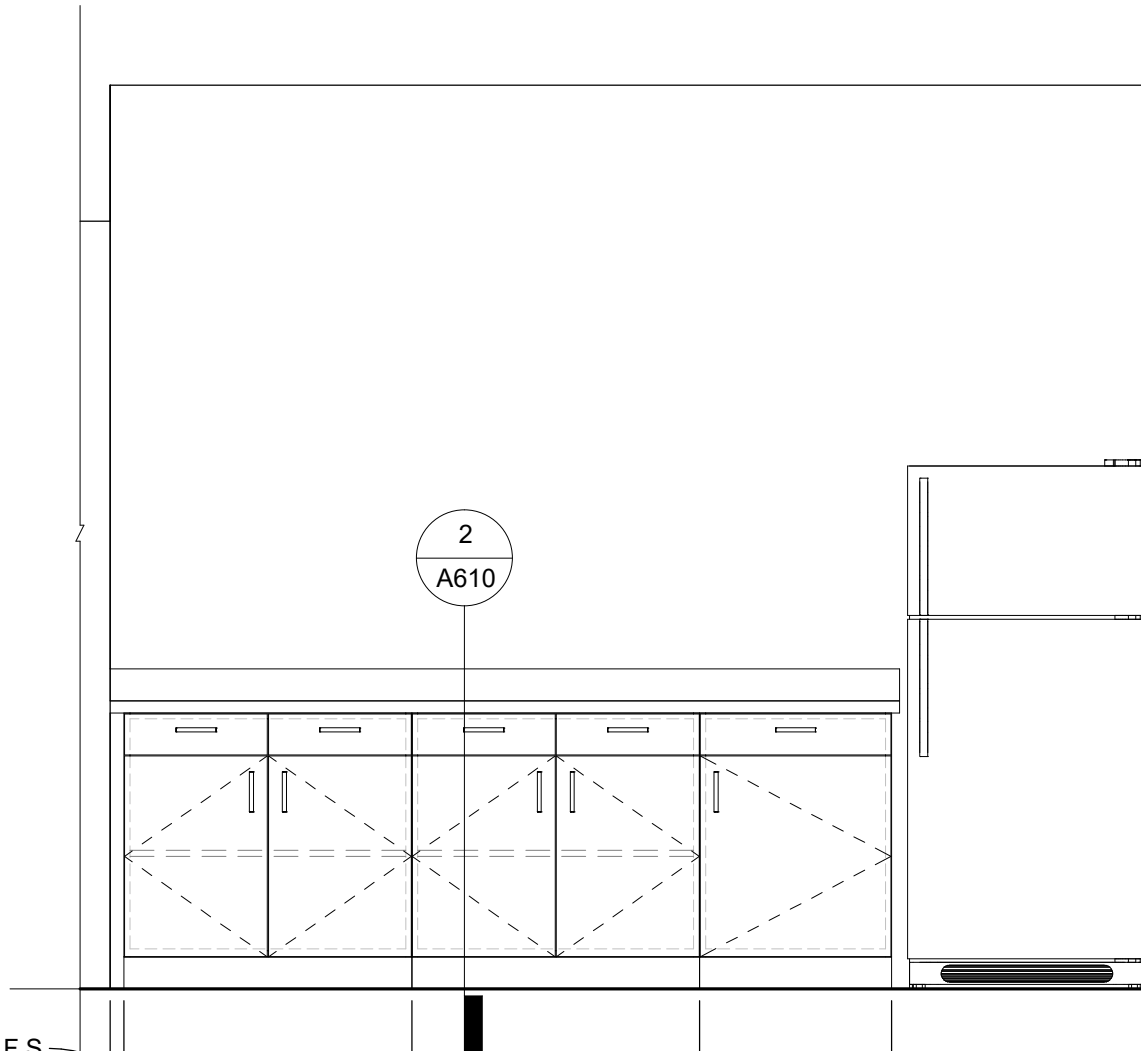
5 JAMB AT TYPICAL STUD PARTITION

A610 1 1/2" = 1'-0"



2 BASE CABINET - SOLID SURFACE1

A610 1 1/2" = 1'-0"



1 LOUNGE MILLWORK

A610 1/2" = 1'-0"



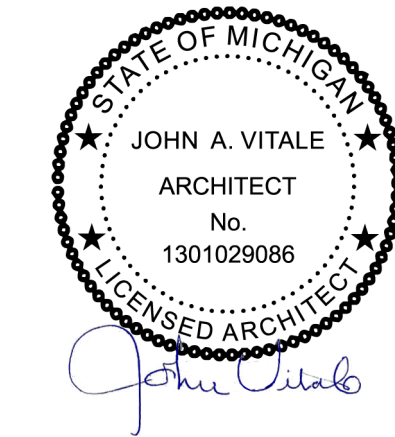
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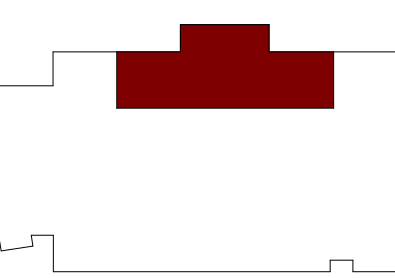
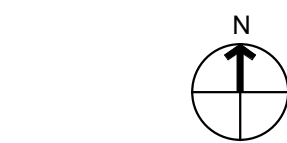


Project :

MATTHAEI ACADEMIC  
RESOURCE CENTER  
RENOVATION

5101 John C Lodge Fwy,  
Detroit, MI 48202

Key Plan:



Issued for

BID / PERMIT 07.07.22  
BFS RESPONSE 08.29.22

Drawn by :

Author

Checked by :

Checker

Sheet Title :

INTERIOR ELEVATIONS AND  
ENLARGED PLANS FIRST  
LEVEL

Project No. :

2022.038

Sheet No. :

A610




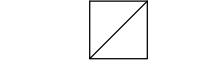


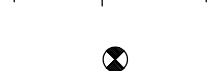
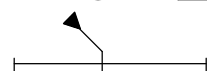

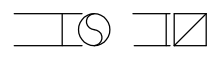


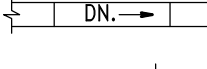

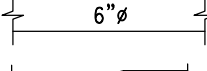
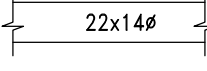
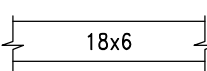
DO NOT SCALE DRAWINGS

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ABBREVIATIONS

ACCU	AIR CONDITIONING CONDENSING UNIT	NC	NORMALLY CLOSED
AD	ACCESS DOOR	NIC	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 RADIIUS)

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




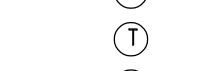
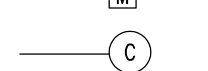
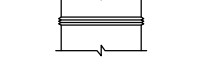
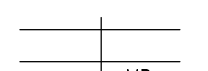
POINT OF NEW CONNECTION

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

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.
  - FIRE PROTECTION.

DEFINITIONS:

- A. "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.
- C. 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:

- A. COORDINATE ALL WORK BEFORE AND DURING CONSTRUCTION WITH ALL OTHER AFFECTED TRADES.
- B. WHERE INTERFERENCES DEVELOP, NOTIFY ARCHITECT FOR RESOLUTION OF CONFLICT.
- C. 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:

- A. SUBMIT COMPLETE SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT INTENDED FOR USE ON THIS PROJECT.
- B. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL PHYSICAL, PERFORMANCE AND ELECTRICAL CHARACTERISTICS FOR ALL MATERIALS AND EQUIPMENT.
- C. 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.
- B. 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:

- A. 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:

- A. 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.
- B. 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:

- A. 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.

ELECTRICAL WORK:

- A. PROVIDE ALL ELECTRICAL WORK ASSOCIATED WITH, AND NECESSARY TO COMPLETE THIS PROJECT, WHICH IS NOT INCLUDED AS ELECTRICAL TRADES WORK.
- B. PROVIDE ALL ELECTRICAL WORK, AS APPLICABLE, IN ACCORDANCE WITH DIVISION 16 REQUIREMENTS.
- C. 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.

GUARANTEES:

- A. 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: 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., "VENTOLAS 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



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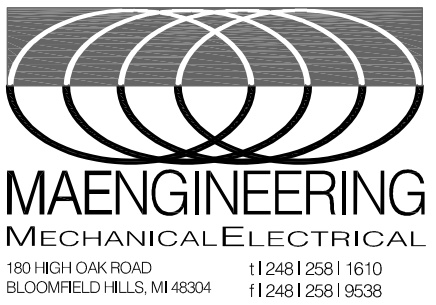
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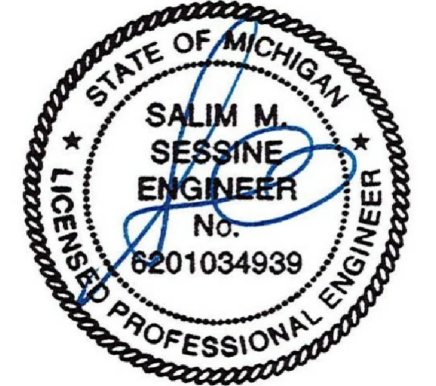
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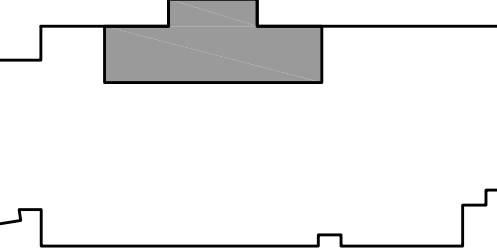
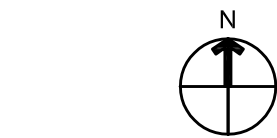


Project :

MATTHAEI ACADEMIC  
RESOURCE CENTER  
RENOVATION

5101 John C Lodge Fwy,  
Detroit, MI 48202

Key Plan:



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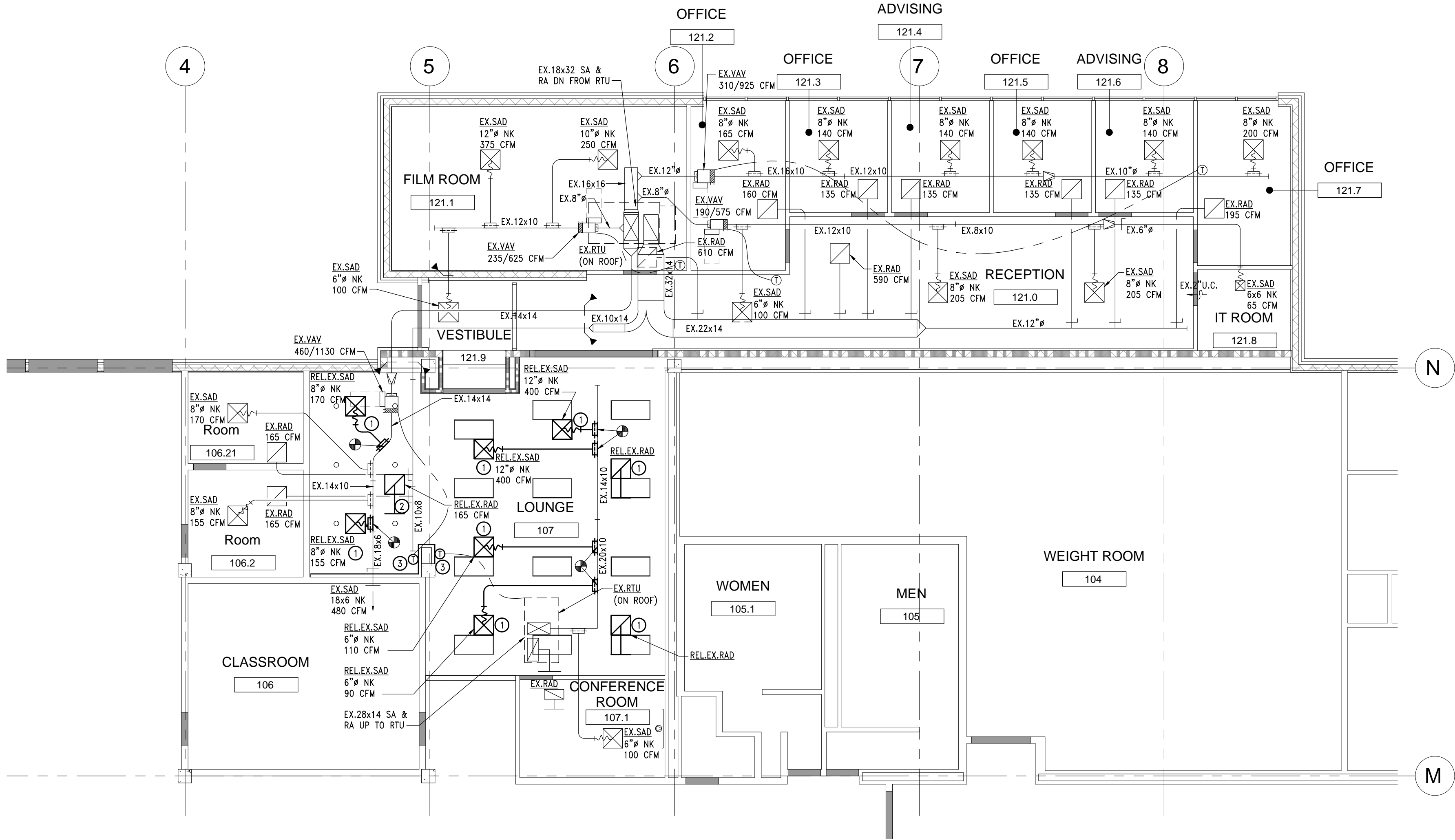
MECHANICAL SYMBOLS LIST, INDEX,  
NOTES & SPECIFICATIONS

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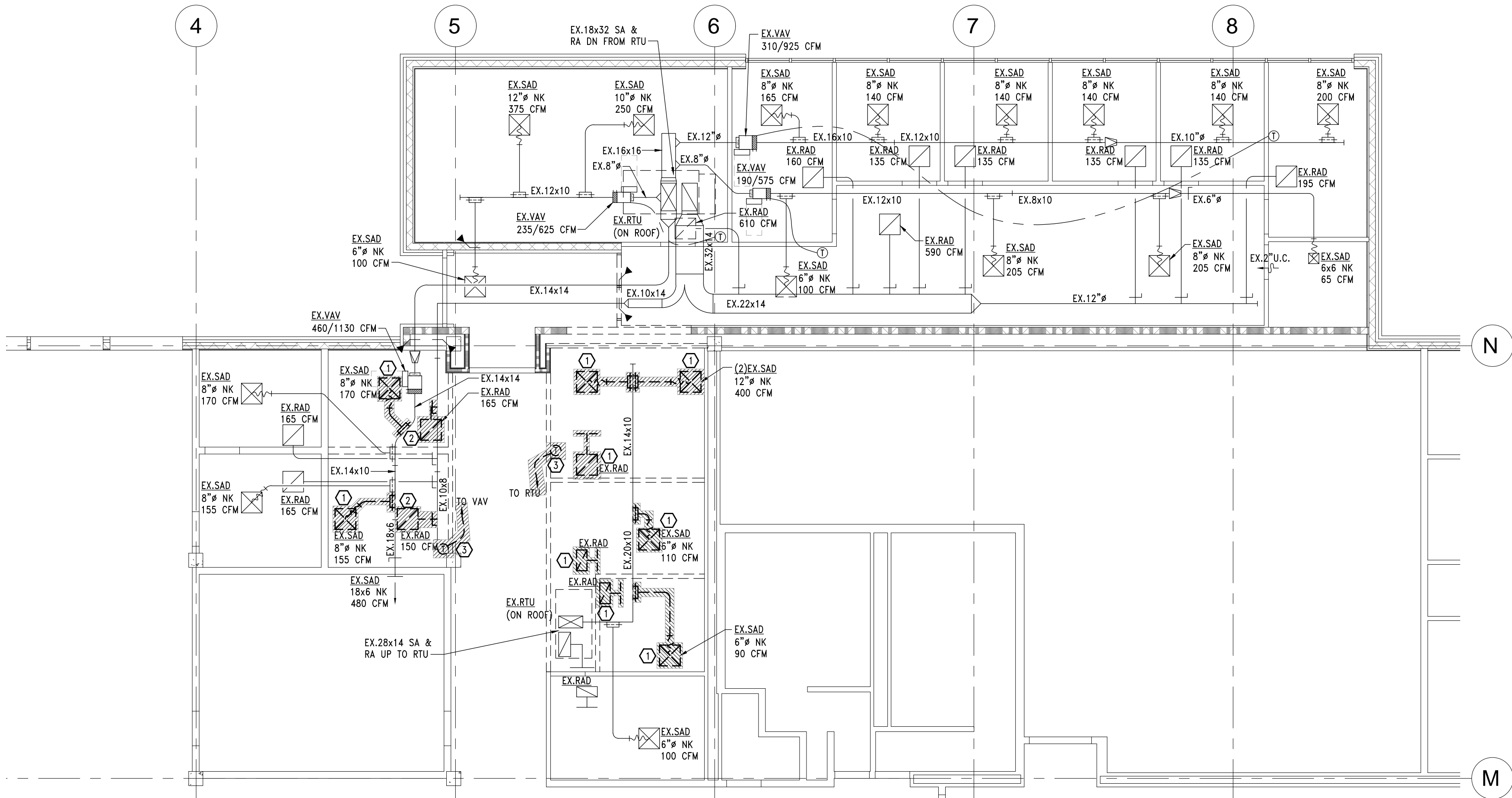
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2 FIRST LEVEL NEW WORK HVAC  
M100 1/8" = 1'-0"



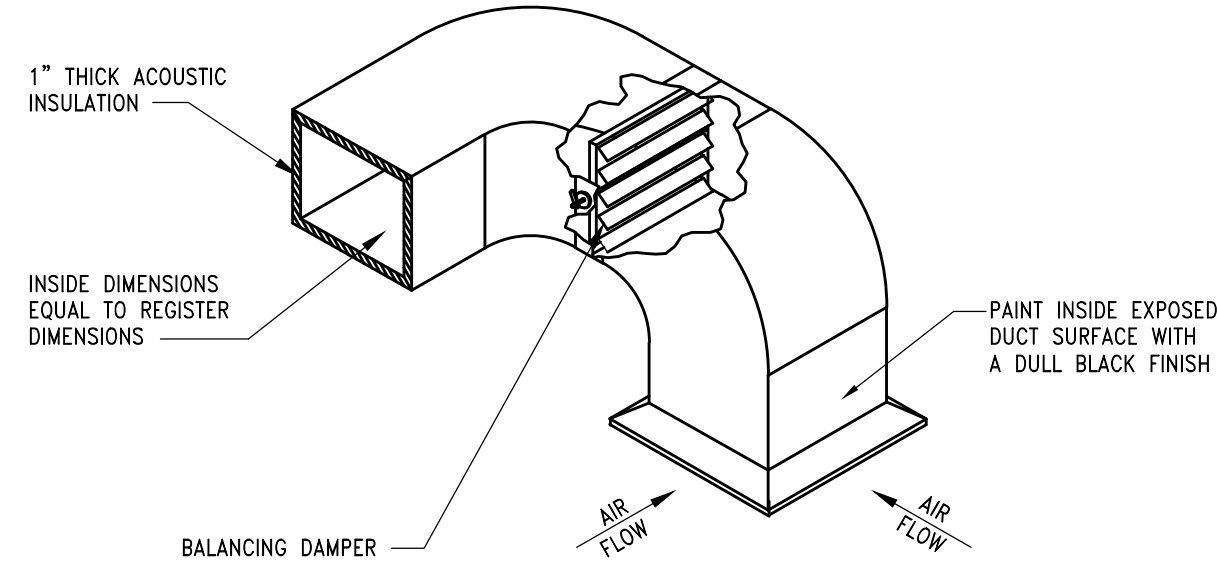
1 DEMOLITION HVAC PLAN  
M100 1/8" = 1'-0"

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.



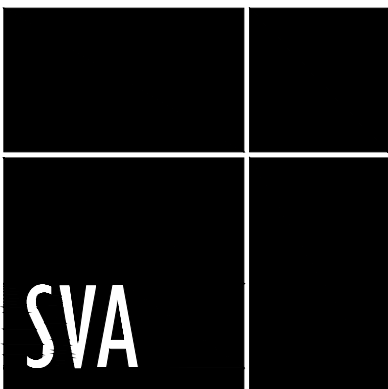
1  
M100  
DETAIL OF A TYPICAL SOUND INSULATED  
AIR PLENUM FOR OFFICES AND CONFERENCE ROOMS  
SCALE: NONE

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:

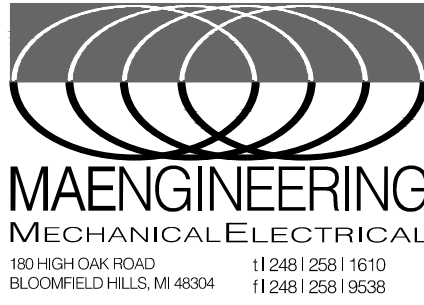
- A. COORDINATE ALL WORK WITH OTHER TRADES.



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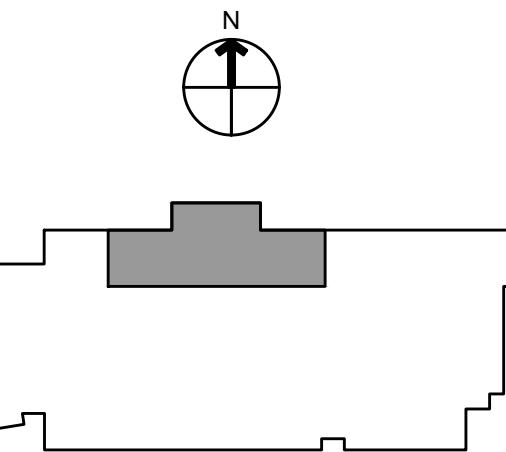


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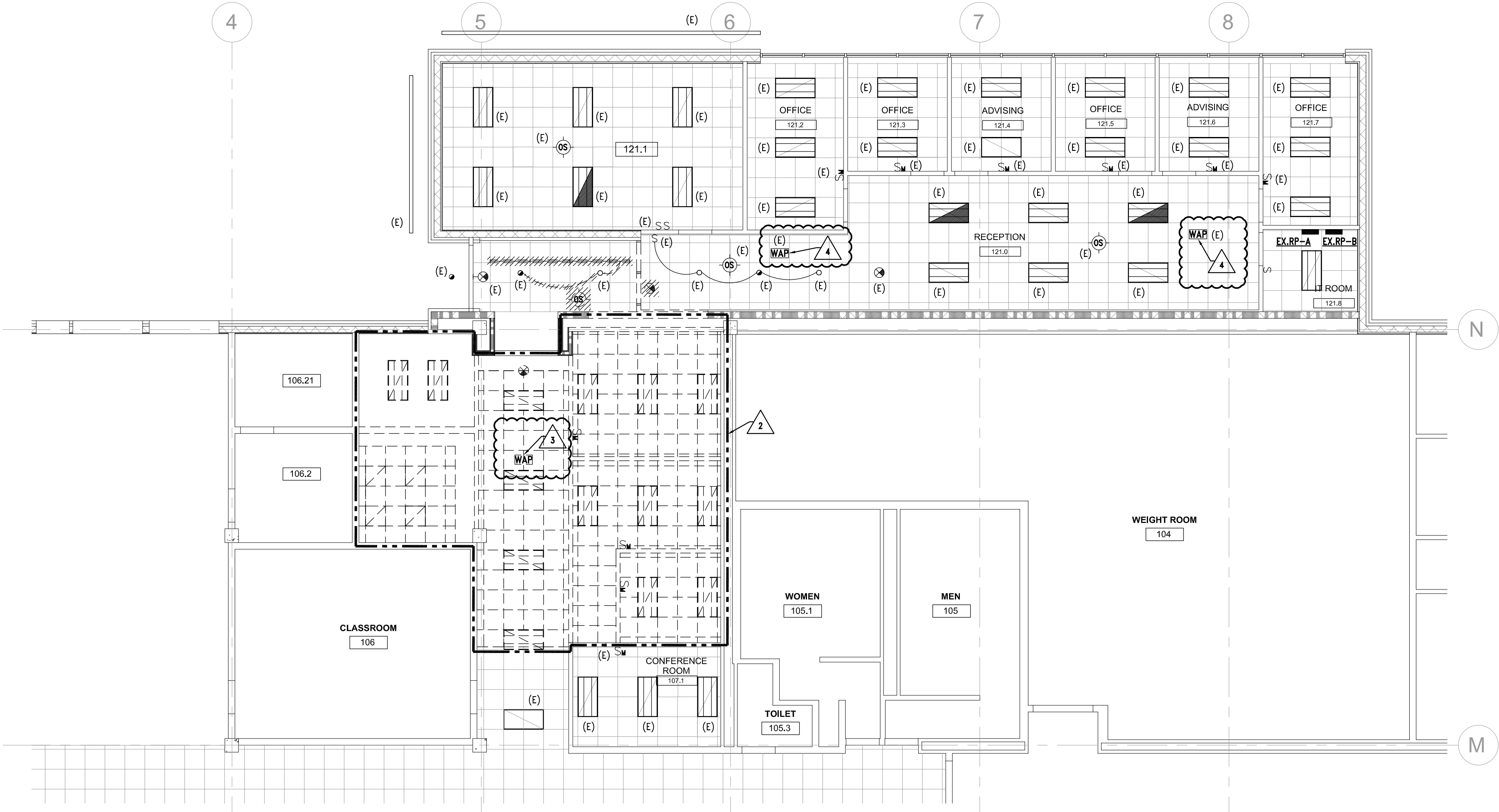
DEMOLITION & NEW WORK  
HVAC PLANS & DETAILS

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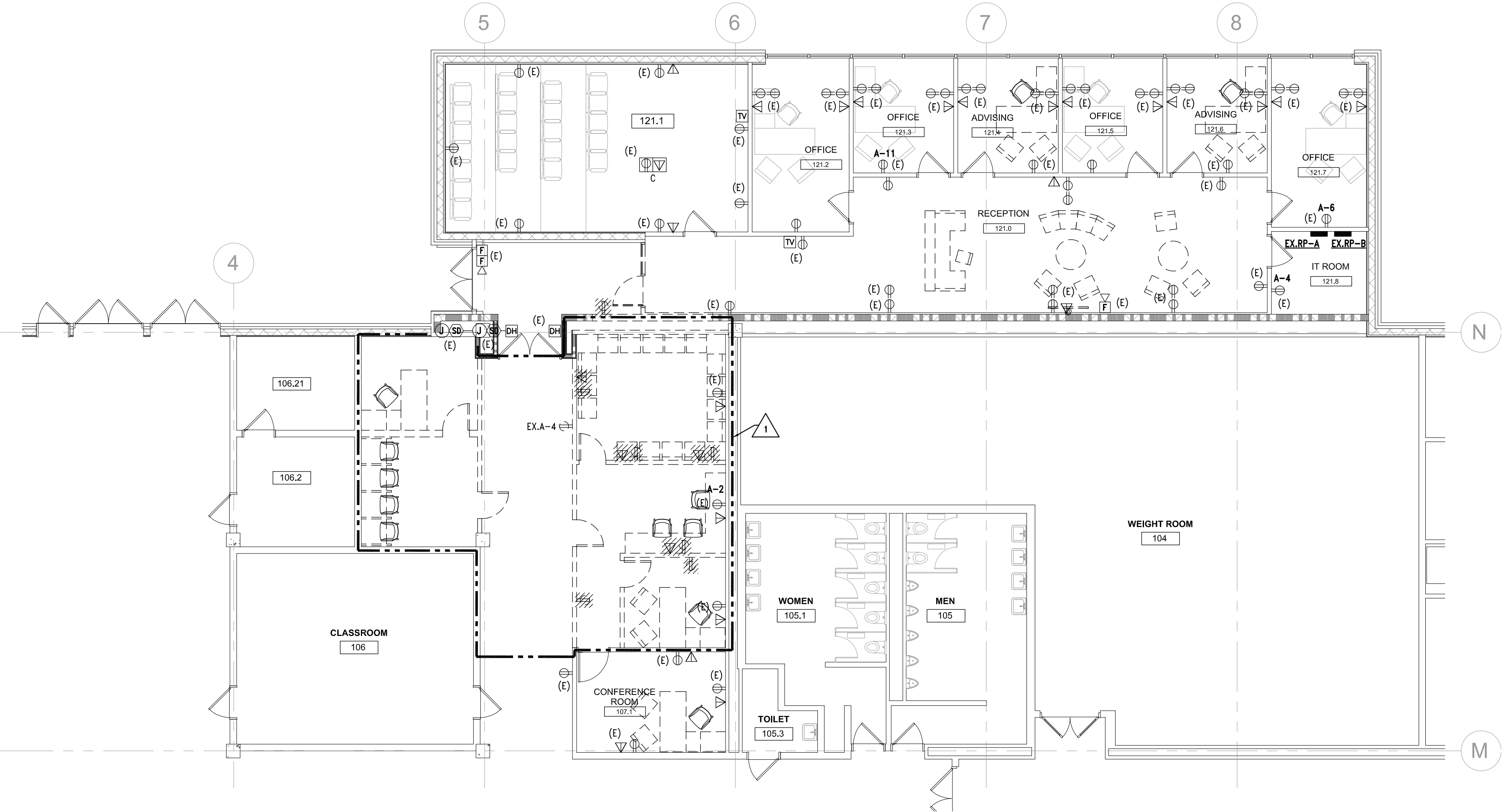
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2 DEMOLITION LIGHTING PLAN  
ED100 1/8" = 1'-0"



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



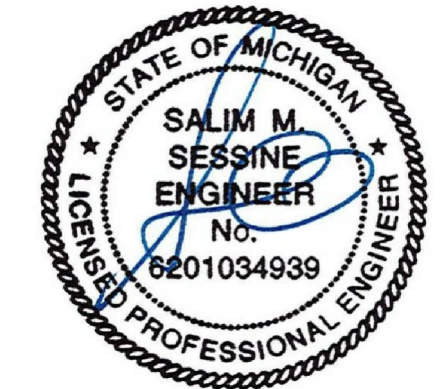
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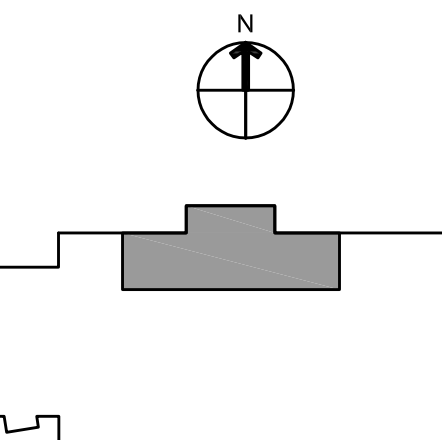


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DEMOLITION PLANS

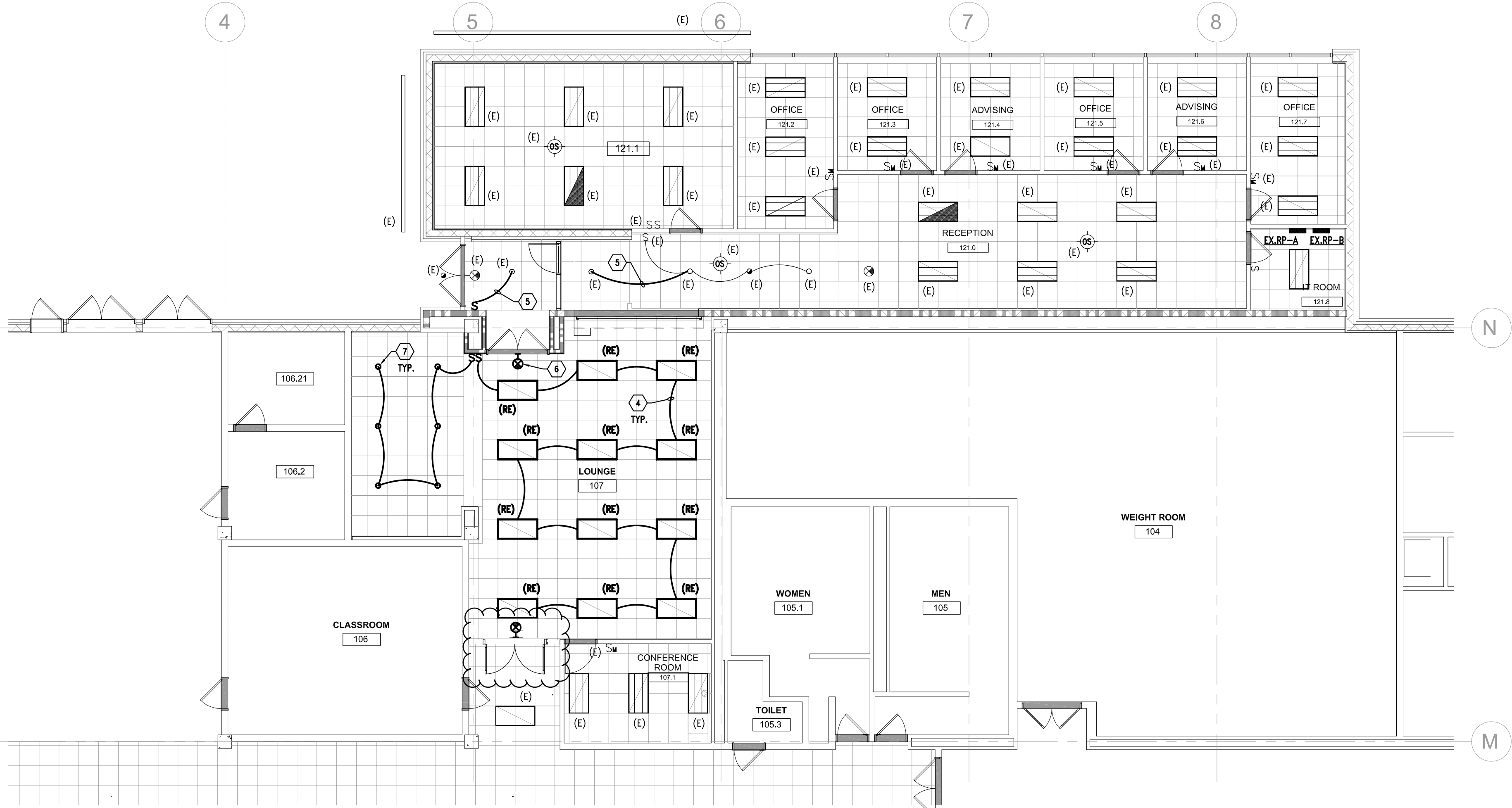
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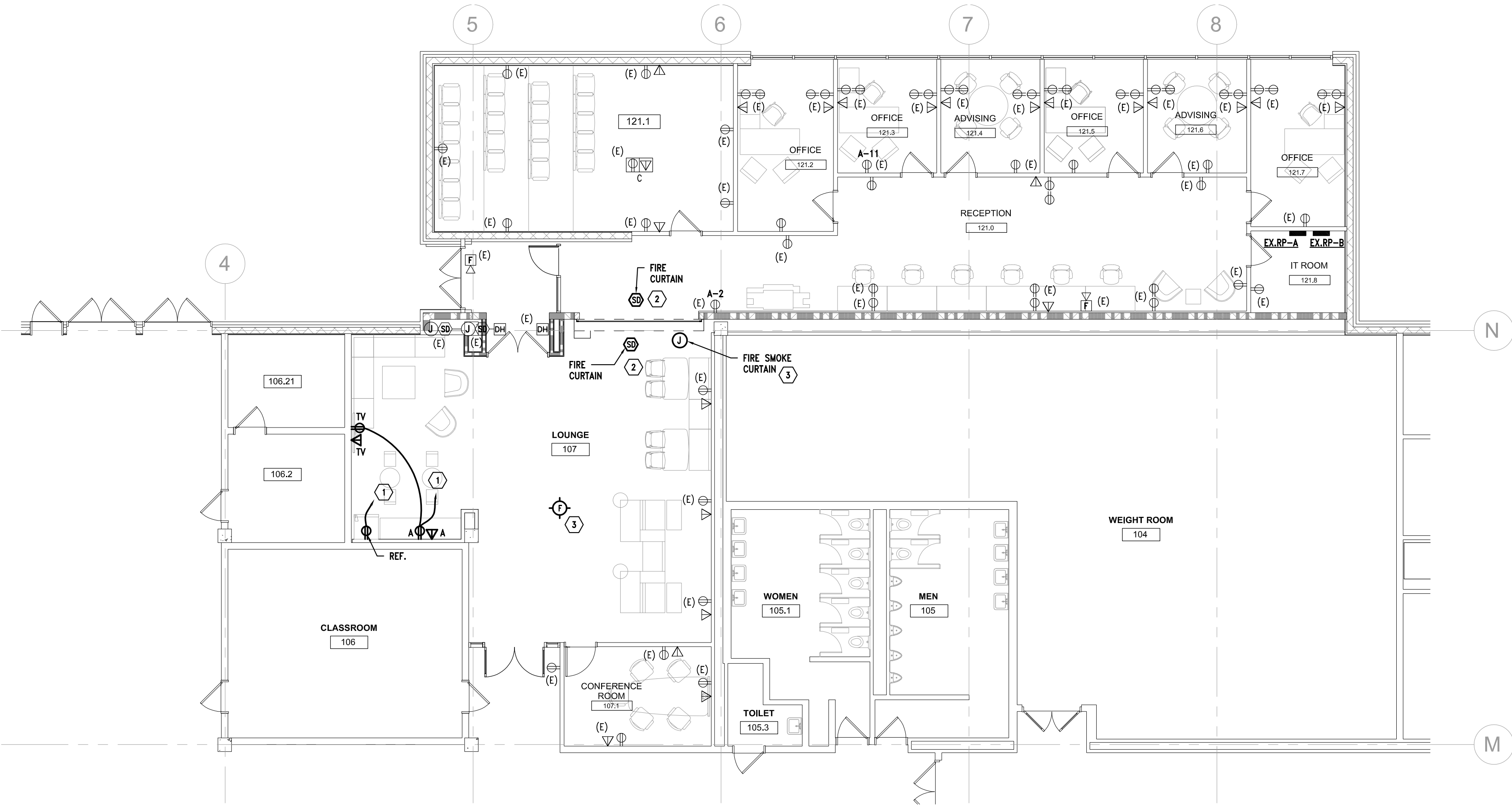
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ED100





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.



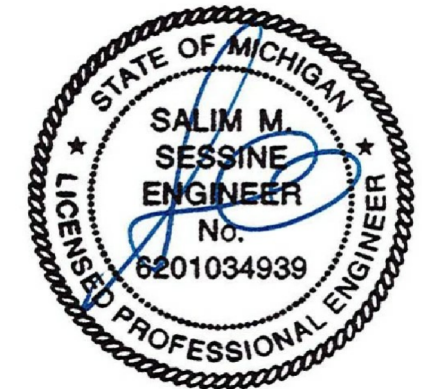
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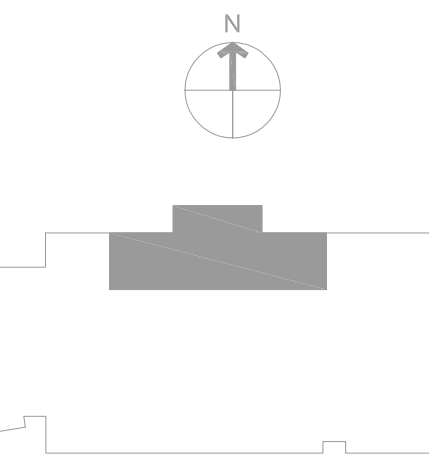


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