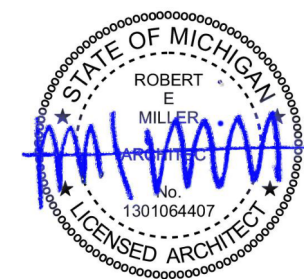


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DRAWING SHEET INDEX	COVER SHEET		SHEET TITLE	SHEET NUMBER	ISSUE DATE
	LIFE SAFETY AND CODE ANALYSIS				
	DEMOLITION FLOOR PLAN		AD101		
	DEMOLITION CEILING PLAN		AD102		
	PROPOSED FLOOR PLAN		A101		
	PROPOSED CEILING PLAN		A201		
	MILLWORK SECTIONS, ENLARGED PLAN, AND ELEVATIONS		A401		
	PROPOSED FINISH PLAN		A801		
	ELECTRICAL NOTES		E101		
	PLUMBING, AND POWER / LIGHTING PLANS, AND GENERAL NOTES		PME101		



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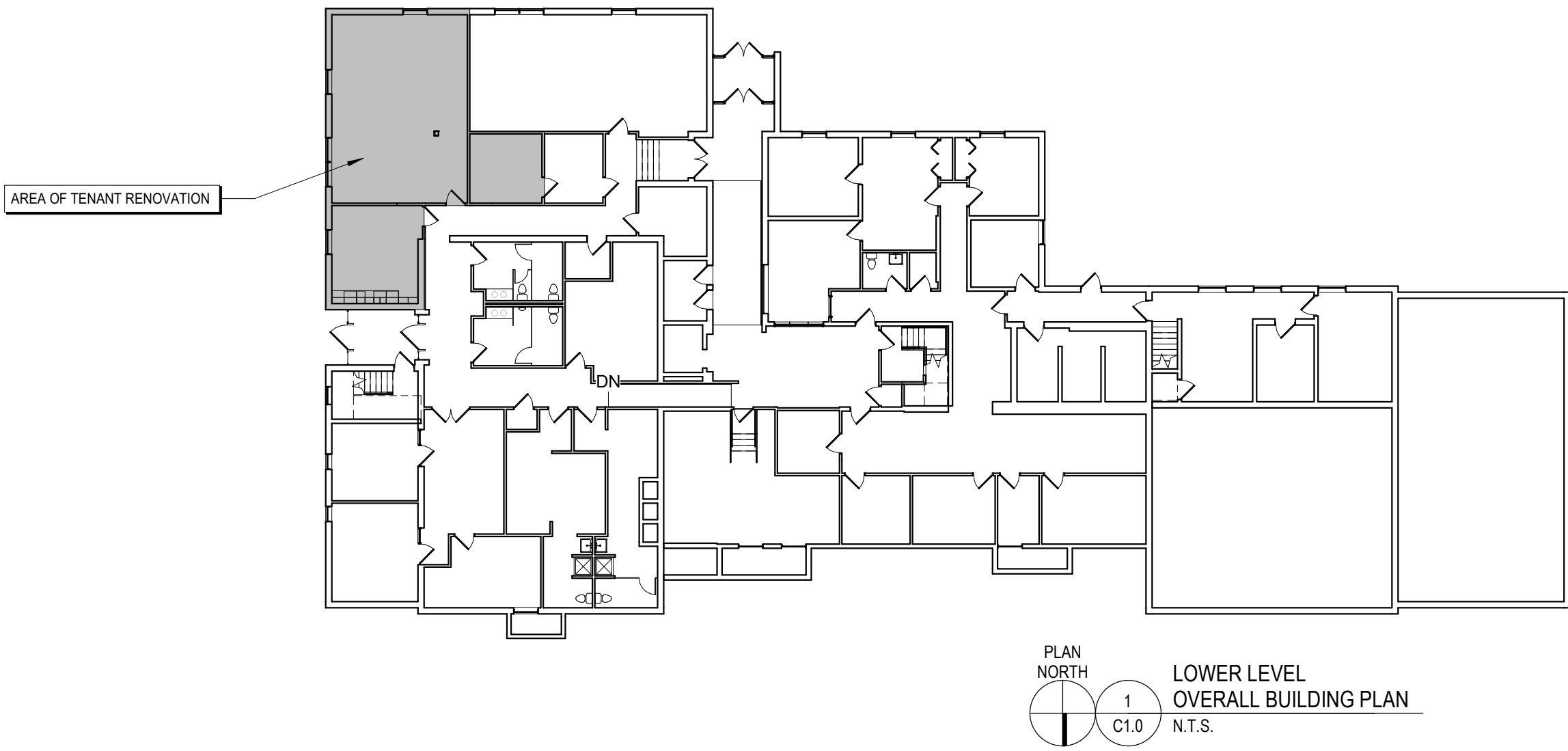
PROJECT
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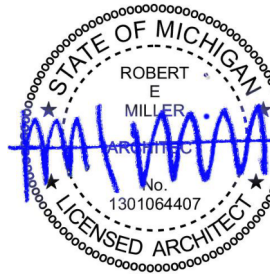
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SHEET NAME
LIFE SAFETY AND CODE
ANALYSIS

SHEET NUMBER

A001

CODE INFORMATION

GOVERNING CODES
BUILDING: 2015 INTERNATIONAL BUILDING CODE
ACCESSIBILITY: ICC ANSI A117.1-2009
MECHANICAL: 2015 INTERNATIONAL MECHANICAL CODE
PLUMBING: 2015 INTERNATIONAL PLUMBING CODE
ELECTRICAL: 2014 NATIONAL ELECTRIC CODE
FIRE CODE: IFC 2015 AS REFERENCED IN THE 2015 IBC
FIRE ALARM: NFPA 72 (2013)

EXISTING BUILDING IS NOT FULLY SPRINKLERED

CHAPTER 3
USE GROUP AND OCCUPANCY CLASSIFICATION
B BUSINESS

CHAPTER 6
TABLE 601 - FIRE RESISTIVE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
TYPE OF CONSTRUCTION 2B
PRIMARY STRUCTURAL FRAMING 0 HOURS
BEARING WALLS
EXTERIOR 0 HOURS
INTERIOR 0 HOURS
NONBEARING WALLS AND PARTITIONS
EXTERIOR 0 HOURS
FLOOR CONSTRUCTION AND ASSOCIATED
SECONDARY MEMBERS 0 HOURS
ROOF CONSTRUCTION AND ASSOCIATED
SECONDARY MEMBERS 0 HOURS

SECTION 802 - CONSTRUCTION CLASSIFICATION = 2B

CHAPTER 8
TABLE 803.1.1 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY
GROUP B - NON SPRINKLERED
INTERIOR EXIT STAIRWAYS A
CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS B
ROOMS AND ENCLOSED SPACES C

CLASS A: FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450
CLASS B: FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450
CLASS C: FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-405

CHAPTER 9
SECTION 906 - PORTABLE FIRE EXTINGUISHERS
REQUIRED:
- IN USE GROUP A
- WITHIN 30' OF COMMERCIAL COOKING EQUIPMENT
- IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED, OR DISPENSED
- WHERE REQUIRED BY THE I.F.C. SECTIONS INDICATED IN TABLE 906.1
MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER 75 FEET

CHAPTER 10
SECTION 1004 - OCCUPANT LOAD
BUSINESS USE = 1 OCCUPANT PER 100 SQUARE FEET GROSS
AREA OF SCOPE OF WORK: 1160 / 100 = 11 OCCUPANTS

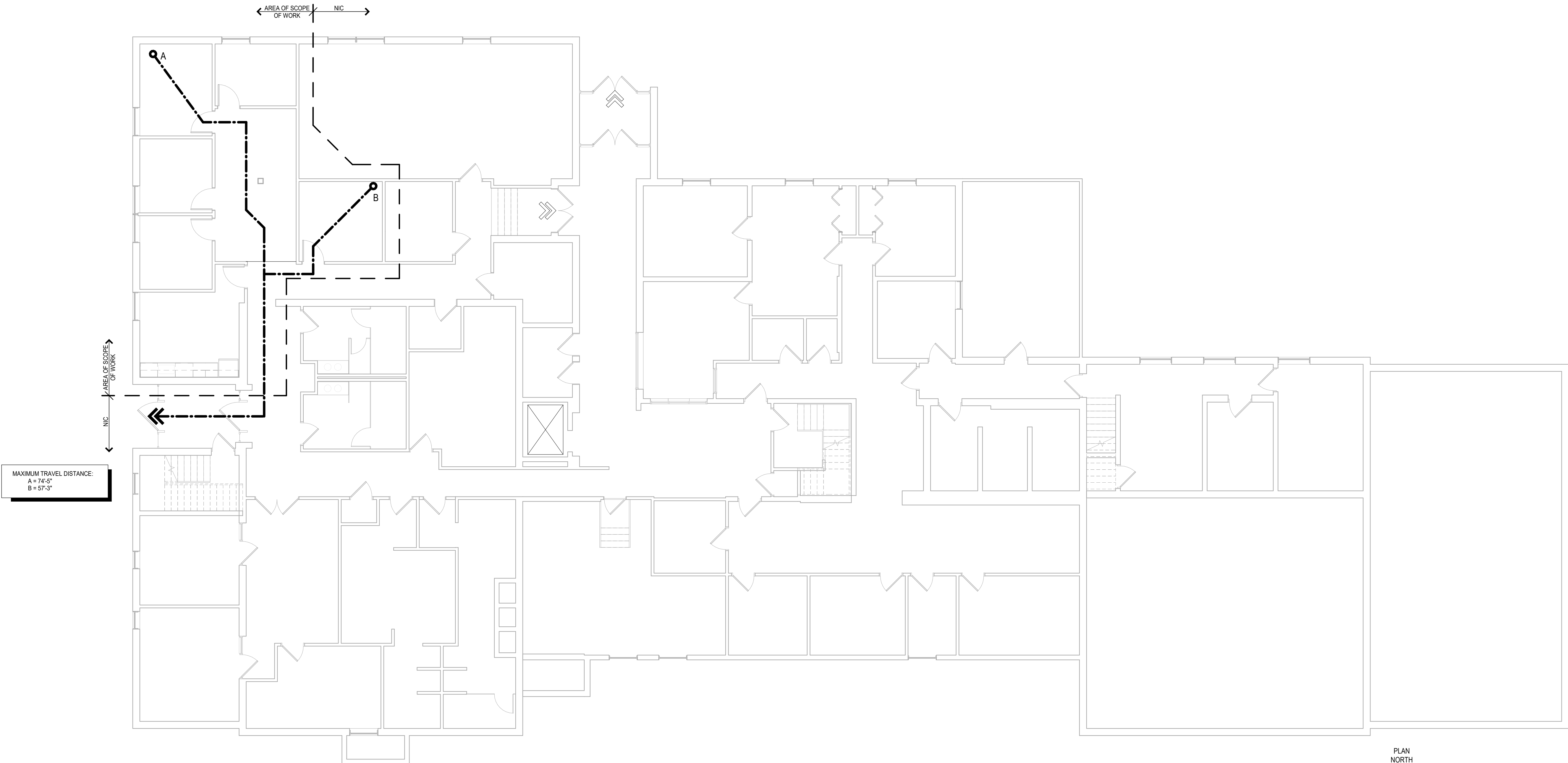
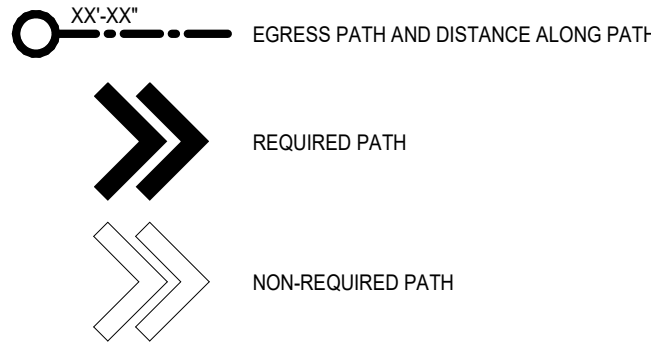
TABLE 1006.2.1 - SPACES WITH ONE EXIT OF EXIT ACCESS DOORWAY
OCCUPANCY MAXIMUM OCCUPANCY MAX. COMMON PATH OF TRAVEL
LOAD OF SPACE WITHOUT SPRINKLER SYSTEM
B 49 75'

SECTION 1017 - EXIT ACCESS TRAVEL DISTANCE
TABLE 1016.2 - EXIT ACCESS TRAVEL DISTANCE
OCCUPANCY B
WITHOUT SPRINKLER SYSTEM 200 FEET MAX. (ALLOWABLE)

SECTION 1020.2 - MINIMUM CORRIDOR WIDTH
44 INCHES

THE CONSTRUCTION DOCUMENTS WERE PREPARED FOR COMPLIANCE WITH THE INTERNATIONAL 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 OF NORTHVILLE, STATE OF MICHIGAN CONSTRUCTION BOARD 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.

LIFE SAFETY PLAN LEGEND



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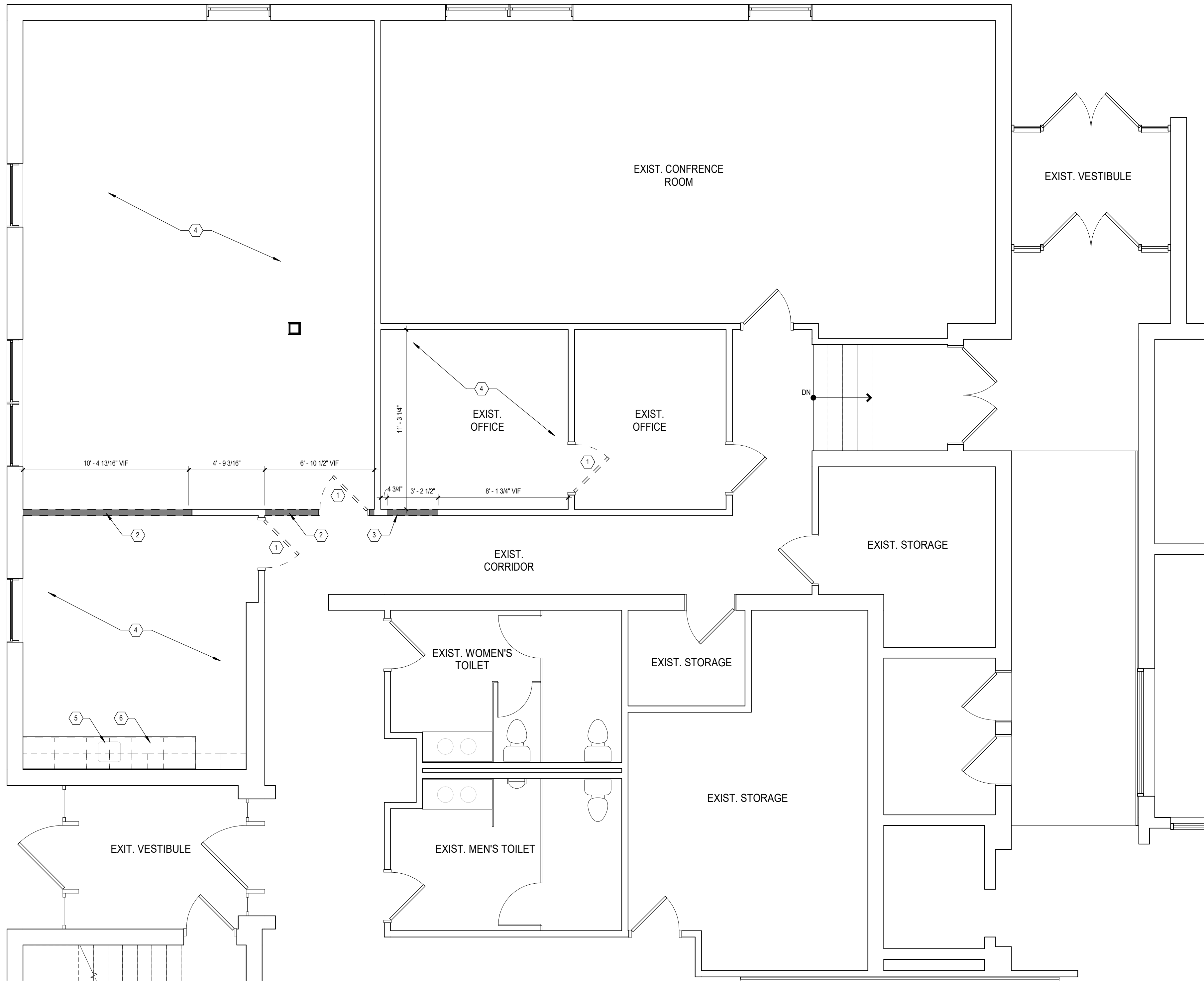
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GENERAL DEMOLITION NOTES

- DEMOLITION CONTRACTOR SHALL DISPOSE OF ALL REMOVED MATERIALS.
- ANY UN-NOTED EXISTING CONDITION WHICH CONFLICTS WITH THE PROJECT REQUIREMENTS AND MAY REQUIRE MODIFICATION, RELOCATION, OR REMOVAL TO COMPLETE THE INTENDED PROJECT SHALL BE IDENTIFIED BY THE CONTRACTOR.
- REMOVE PARTITIONS, STUDS, DOORS, FRAMES, MILLWORK, MECHANICAL, PLUMBING, AND ELECTRICAL ELEMENTS AS INDICATED.
- PATCH, REPAIR, AND FINISH ALL REMAINING OR DAMAGED WALLS AND/OR CEILINGS FOR LIKE NEW FINISH RESULTING FROM DEMOLITION.
- EXISTING CONDITIONS AND ELEVATIONS ARE DERIVED FROM FIELD MEASUREMENTS AND ARE SHOWN TO ASSIST BIDDERS ONLY; NO CLAIM IS MADE TO THEIR VALIDITY. THE CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND PROVIDE FOR ALL EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE RESULTING FROM FAILURE TO CARRY OUT SUCH AN EXAMINATION.
- THE CONTRACTOR SHALL FIELD CHECK ALL RELEVANT CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THE DRAWINGS PRIOR TO CONSTRUCTION.
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- DEMOLITION WORK SHALL BE EXECUTED IN AN ORDERLY AND CAREFUL MANNER AND DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, FOR OFF-SITE DISPOSAL AT HIS EXPENSE, IN A LEGAL MANNER.
- ITEMS, MATERIALS, AND ADJACENT AREAS THAT ARE DESIGNATED TO REMAIN INTACT SHALL BE SEALED AND SECURED SO THAT THEY ARE NOT IMPACTED BY DEMOLITION. CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AND SECURITY DEVICES, INCLUDING DUST-PROOF PARTITIONS AS REQUIRED TO PREVENT THE SPREAD OF DUST TO OTHER PARTS OF THE BUILDING.
- PRIOR TO START OF CONSTRUCTION OR DEMOLITION THE CONTRACTOR SHALL COORDINATE WITH THE OWNER.
- DEMOLITION CONTRACTOR SHALL COORDINATE THEIR WORK SCOPE WITH THE DEMOLITION DRAWINGS AND NEW WORK DRAWINGS. ADDITIONAL DEMOLITION WORK SCOPE MAY BE IDENTIFIED IN THE NEW WORK DRAWINGS. REVIEW ALL DOCUMENTS INCLUDING CONSULTING ENGINEERING DOCUMENTS FOR ADDITIONAL SCOPE OF WORK NOT NOTED IN THE ARCHITECTURAL DEMOLITION DRAWINGS.
- STRIP OUT ALL POWER IN AREAS OF DEMOLITION TO NEAREST J-BOX ABOVE CEILING, OR WHERE FOUND, AND PROVIDE WIRE UNITS AT ALL TERMINATIONS AND CLOSE BOX WITH REQUIRED COVER.
- COORDINATE REMOVAL OF ANY FURNITURE OR NON-FIXED MILLWORK / ITEMS WITH OWNER PRIOR TO REMOVAL.
- GENERAL CONTRACTOR TO MAKE ALL REQUIRED UPGRADES TO EXISTING AUDIBLE / STROBE FIRE ALARM PER CODE REQUIREMENTS, WHERE FOUND.
- VERIFY WITH OWNER FOR ANY MATERIAL THAT IS TO BE RETURNED TO OWNER INCLUDING, BUT NOT LIMITED TO:
 - 15.1 LIGHT FIXTURES
 - 15.2 PLUMBING FIXTURES
 - 15.3 MILLWORK
 - 15.4 DOORS / FRAMES
 - 15.5 WINDOWS / FRAMES

DEMOLITION NOTES

- EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED.
- EXISTING WALL TO BE REMOVED.
- EXISTING WALL TO BE REMOVED TO PREPARE FOR NEW OPENING.
- EXISTING CARPET AND GLUE TO BE REMOVED. PREP FLOOR FOR NEW FINISH
- EXISTING PLUMBING FIXTURES TO BE REMOVED. CAP ALL PLUMBING FOR REUSE AT NEW SINK LOCATION.
- EXISTING MILLWORK TO BE REMOVED IN ITS ENTIRETY.

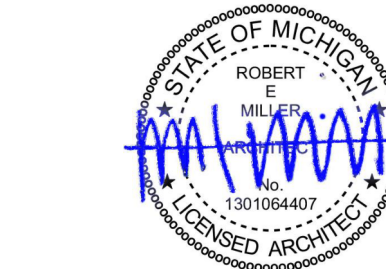


LEGEND

- EXISTING WALL TO BE REMOVED
- EXISTING WALL



1
AD101
DEMOLITION FLOOR PLAN
1/4\" = 1'-0\"



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SHEET NAME
DEMOLITION FLOOR
PLAN

SHEET NUMBER

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 - 15.2 PLUMBING FIXTURES
 - 15.3 MILLWORK
 - 15.4 DOORS / FRAMES
 - 15.5 WINDOWS / FRAMES

DEMOLITION NOTES

- EXISTING CEILING TILES AND GRID TO BE REMOVED.
- EXISTING AIR DIFFUSER AND GRILL TO BE REMOVED AND SALVAGED FOR REUSE WHERE POSSIBLE. MAINTAIN DUCT WORK FOR REUSE.
- EXISTING LIGHT FIXTURE TO BE REMOVED AND SALVAGED FOR REUSE WHERE POSSIBLE. MAINTAIN CIRCUITING FOR REUSE.



PLAN
NORTH
1
AD102
1/4" = 1'-0"
DEMOLITION CEILING PLAN

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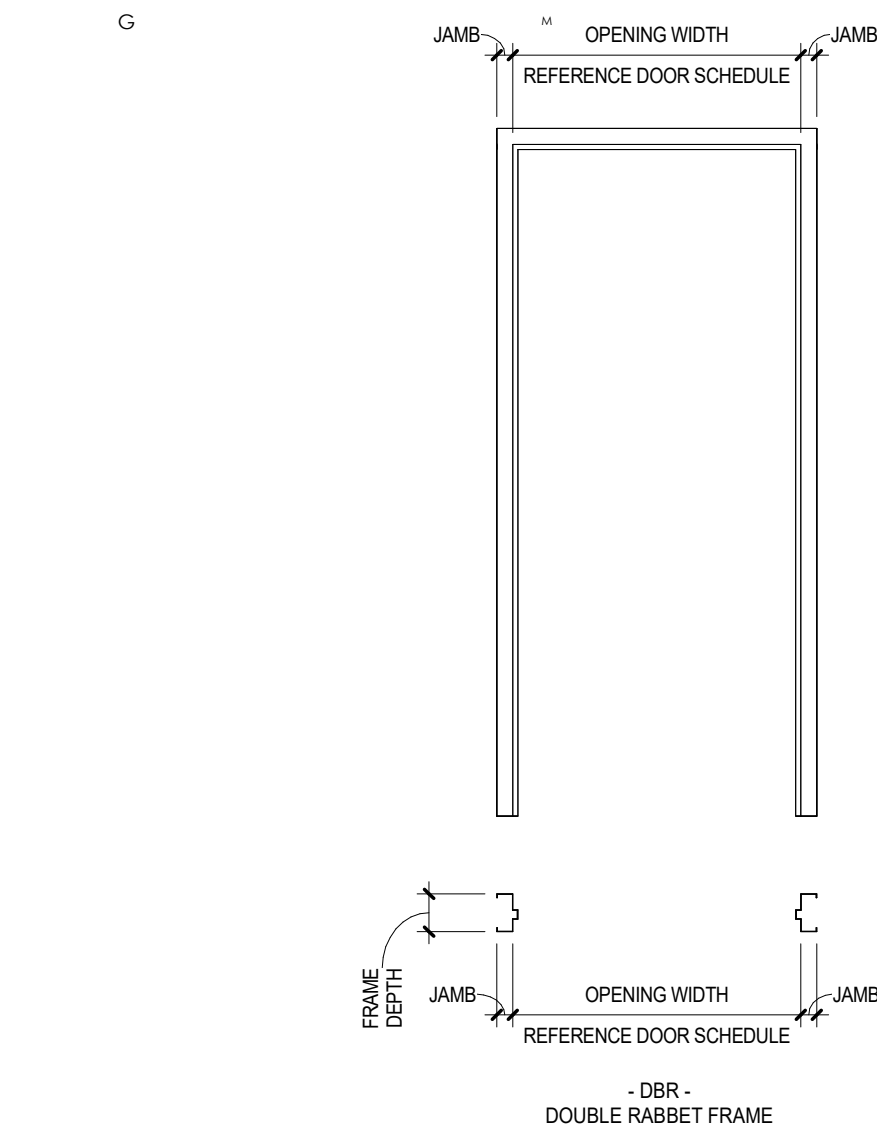
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DEMOLITION CEILING
PLAN

SHEET NUMBER

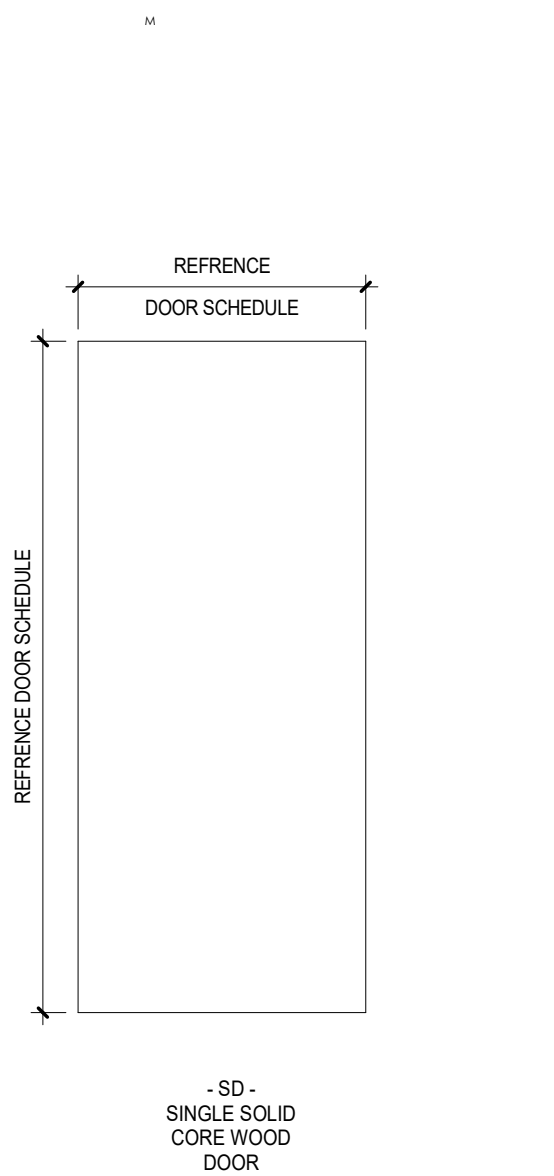
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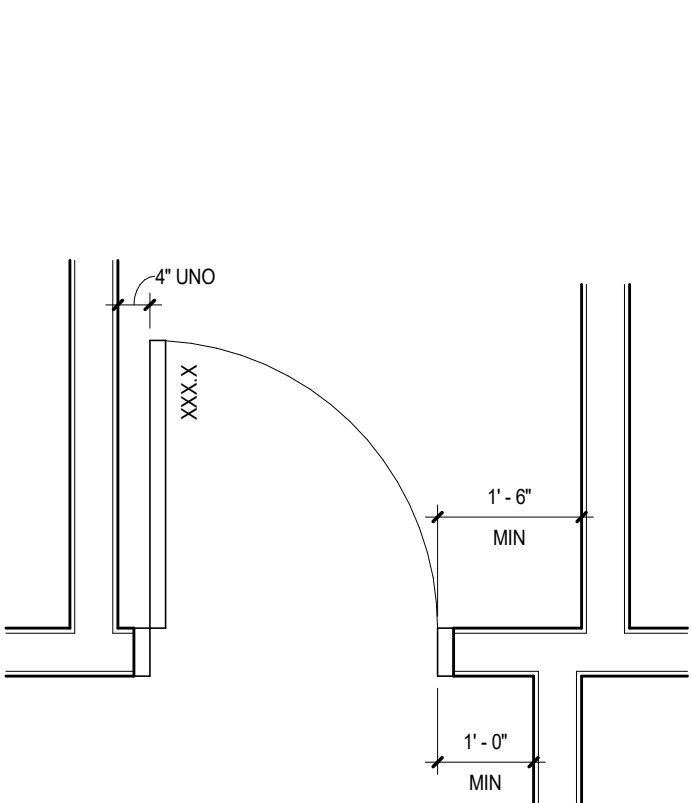
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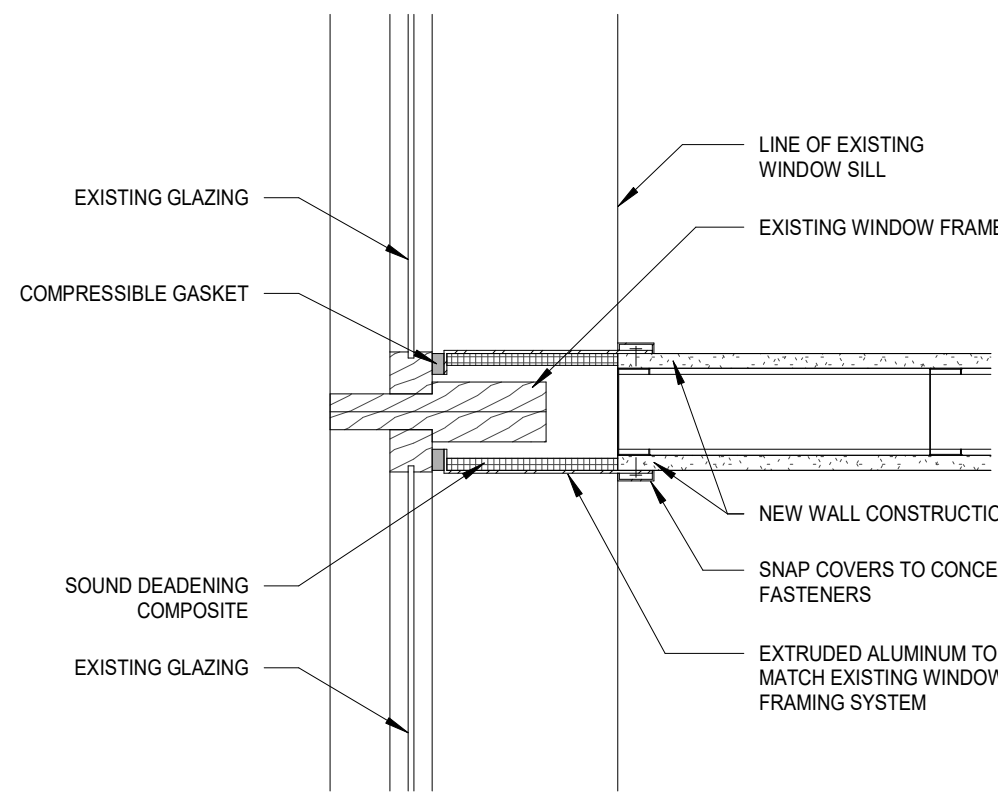
DOOR FRAME ELEVATION AND TYPE
SEE SCHEDULE FOR ALL DIMENSIONS



DOOR PANEL ELEVATION AND TYPES
SEE SCHEDULE FOR ALL DIMENSIONS



DOOR LOCATION - TYPICAL
NTS



PLAN DETAIL @ NEW WALL TO EXISTING WINDOW FRAME
1 1/2" = 1'-0"

WINDOW MULLION TRIM CAP SPECIFICATIONS

1.01 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide the following:
1. MULL-i-OVER Products; Sound barrier mullion trim cap systems.
a. Tel: (616) 730-2162
b. url: www.mullioverproducts.com

1.02 SYSTEM DESCRIPTION

- A. General: Provide sound barrier mullion trim caps of design, basic profile, materials, and operation indicated. Provide units with capability to accommodate variations in adjacent surfaces.
1. Furnish units in lengths of sufficient additional length to allow for field trimming to required length to match variations in construction tolerances of adjacent systems.

1.03 PERFORMANCE REQUIREMENTS

- A. Sound Transmission:
1. Single Sided Installations: STC 50 or higher.
2. Double-Sided Installations: STC 55 or higher.
B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
1. Mullion trim cap to be sized to accommodate thermal movement.

1.04 SOUND BARRIER MULLION TRIM CAP

- A. Sound Barrier Mullion Trim Cap:
1. Products: MULL-i-OVER Products; Mullion trim Cap.
B. Profile: 60 Classic Mullion Trim Cap and 60 Wide Sound Barrier.

1.05 COMPONENTS

- A. Aluminum Extrusions:
1. Thickness: 0.125 inches.
2. Profile: As selected and approved by Architect to allow solid attachment and fastening to the partition wall framing.
B. Sound Absorbing Foam:
1. Resistant to smoke, flame, and microbial growth.
2. Fire Rating: ASTM E 84 Class 1.
3. Fungi Resistance: Zero rating per ASTM G 21.
C. Compressible Foam: Between edge of extrusion and interior face of curtain wall glass.
1. Thickness: Standard 1/2 inch (12.7 mm), 3/4" (19.1 mm), 1 inch (25.4 mm) or 1-1/2" (38.1 mm) as required to accommodate mullion deflection.
2. Color: Charcoal
D. Fasteners:
1. Self Tapping or appropriate threaded fastener.
2. Compatible with all materials fasteners will contact with and not causing galvanic corrosion.
E. Snap Cover: Snap-on fastener cover.
F. Acoustical Sound Sealant: Acrylic latex based.

1.06 ACCESSORIES

- A. Provide necessary and related parts and tools to complete installation.

1.07 FABRICATION

- A. Extrusions and generic profiles to be shipped in custom lengths as required to meet project requirements or shipped in standard incremental foot lengths and cut to exact length on jobsite.

1.08 FINISHES

- A. Exposed surfaces of exposed aluminum extrusion:
1. Standard Finish: Supplied in clear anodized finish.
2. Custom Finish: Custom anodized finishes and painted finishes available upon request.
B. Finishes:
1. Aluminum - clear anodized;
a. Clear anodized finish in accordance with AA-M10 A41 Class I (0.7 to 1.0 thick anodic coating)
2. Aluminum - color anodized or painted:
a. Color Choice with matte or bright finish. Select from manufacturer's custom color offering.

PART 2 - EXECUTION

2.01 EXAMINATION

- A. Examine substrates and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
B. Examine walls and adjacent curtain wall for suitable conditions where sound barrier wall end cap will be installed.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

2.02 INSTALLATION

- A. Measure and cut sound barrier wall end cap to proper lengths.
B. Notch around horizontal mullions, sills, or other obstructions leaving appropriate gap for differential movement between the sound barrier wall end cap and the obstruction.
C. Apply continuous bead of acoustical sealant to the unexposed side of extruded aluminum surface that will be in contact with the drywall edge.
D. Place sound barrier wall end cap on the vertical surface of the drywall partition wall and loosely install fasteners in the top and bottom slotted holes of the wall end cap.
E. Plumb the wall end cap leaving recommended gap spacing between the interior glass surface and the wall end cap. Foam gasket to be in contact with glass.
F. Tighten top and bottom fasteners to secure end cap.
G. Install additional fasteners at 12 inches on center, minimum.
H. Install snap cover to conceal fasteners.
I. Apply color matched sealant at joints of dissimilar materials as desired.

2.03 CLEANING

- A. After work is complete in adjacent areas, clean exposed surfaces with suitable cleaner that will not harm or attack the finish.

2.04 PROTECTION

- A. Protect sound barrier wall end caps from damage during installation, general construction activities, and until turnover of structure.

DOOR SCHEDULE

DOOR NO.	ROOM NO.	ROOM NAME	SIZE			DOOR			FRAME			HARDWARE		COMMENTS
			W	H	T	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	TYPE	RATING	HARDWARE SET	
119.A	119	OFFICE	3'-0"	7'-0"	0'-1.34"	SOLID WOOD	STAIN	SD	H.M.	PNT-03	DBR	NONE	1	4
121.A	121	OFFICE	3'-0"	7'-0"	0'-1.34"	SOLID WOOD	STAIN	SD	H.M.	PNT-03	DBR	NONE	1	4
122.A	122	OFFICE	3'-0"	7'-0"	0'-1.34"	SOLID WOOD	STAIN	SD	H.M.	PNT-03	DBR	NONE	1	4
123.A	123	OFFICE	3'-0"	7'-0"	0'-1.34"	SOLID WOOD	STAIN	SD	H.M.	PNT-03	DBR	NONE	1	4
124.A	124	OFFICE	3'-0"	7'-0"	0'-1.34"	SOLID WOOD	STAIN	SD	H.M.	PNT-03	DBR	NONE	1	4
125.A	125	BREAKROOM	3'-0"	7'-0"	0'-1.34"	SOLID WOOD	STAIN	SD	H.M.	PNT-03	DBR	NONE	1	4

COMMENT KEY:

- A. LOCKSET SHALL BE OPERATED FROM THE INTERIOR SIDE WITHOUT ANY SPECIAL KNOWLEDGE EFFORT OR KEY
B. HARDWARE SHALL BE STANDARD CYLINDRICAL LATCH TYPE WITH LEVER HANDLES
C. ALL METAL FRAMES SHALL BE SHOP PRIMED AND FIELD FINISHED WITH SEMI-GLOSS ENAMEL

DOOR NOTES:

- EXIT DOOR SHALL BE NON-LOCKING AGAINST EGRESS.
- DOOR SHALL COMPLY WITH ANSI 117.1 AND THE AMERICANS WITH DISABILITIES ACT.
- GLASS IN DOOR SHALL BE TEMPERED.
- ALL HARDWARE AND KEYING TO BE COORDINATED WITH OWNER.

COMMENT NOTES:

- ELECTRIC OPENER, BY MANUFACTURER
- IMPACT RESISTANCE DOOR
- TEMPERED GLASS
- MATCH EXISTING WOOD DOOR COLOR / STAIN

HARDWARE SET SCHEDULE

1	3	EA	HINGE
1	1	EA	OFFICE SET
1	1	EA	WALL STOP
1	1	EA	GASKETING

NOTE: FINISH BY OWNER

WALL TYPES

- P1 5/8" TYPE "X" GYPSUM BOARD ON EACH SIDE OF 3 5/8" METAL STUD @ 16" OC W/ SOUND BATT INSULATION

- P2 INFILL WALL: 5/8" TYPE "X" GYPSUM BOARD ON METAL FRAMING TO MATCH EXISTING. ALIGN GYPSUM BOARD WITH ADJACENT EXISTING.

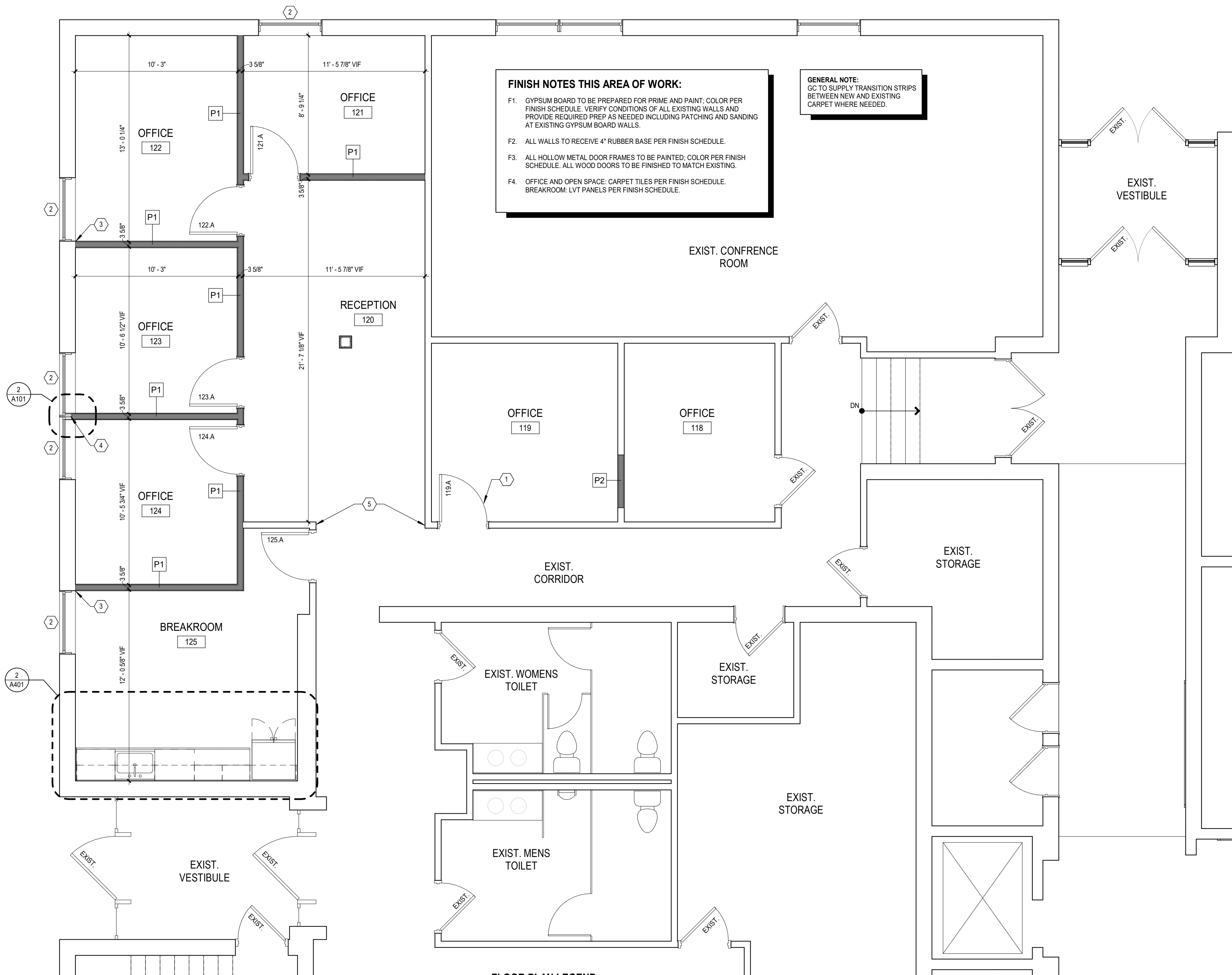
FIRE EXTINGUISHER GENERAL NOTES

- VERIFY FINAL LOCATIONS IN FIELD AND WITH LOCAL FIRE MARSHAL PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES
- MOUNTING HEIGHTS TO ACCOMMODATE A FINISHED HEIGHT OF 48" TOT HE HANDLE OF THE ACTUAL FIRE EXTINGUISHER.

- FE FIRE EXTINGUISHER LOCATION - MOUNT EXTINGUISHER ON 2" HOOK MP-10. VERIFY WITH FIRE MARSHAL. BY LARSENS OR EQUAL

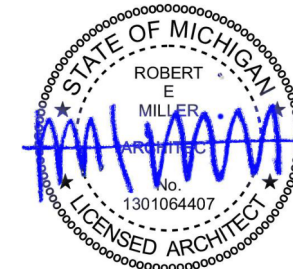
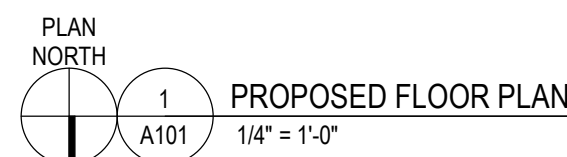
FLOOR PLAN NOTES

- NEW DOOR AND FRAME IN NEW OPENING WITHIN EXISTING WALL.
- EXISTING EXTERIOR WINDOW.
- ALIGN EDGE OF WALL WITH WINDOW OPENING.
- ALIGN CENTER OF WALL WITH CENTER OF WINDOW JAMB.
- PATCH AND REPAIR WALL AT AREA OF DEMOLITION.



FLOOR PLAN LEGEND

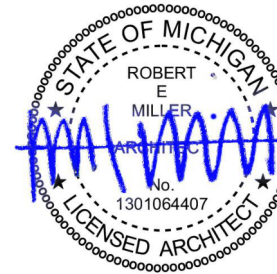
- NEW WALL
EXISTING WALL
WALL TYPE TAG - SEE WALL TYPES THIS SHEET



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SHEET NAME
PROPOSED CEILING PLAN

SHEET NUMBER

A201

MECHANICAL GENERAL NOTES (DESIGN-BUILD):

M1. ALL WORK TO BE PERFORMED TO MEET ALL CODE REQUIREMENTS AND TO BE COORDINATED WITH THE BUILDING OWNER REPRESENTATIVE.

M2. ALL EXISTING DUCT WORK TO BE REUSED WHERE POSSIBLE. PROVIDE NEW DUCT WORK AS REQUIRED. ALL EXISTING CONDITIONS TO BE VERIFIED PRIOR TO CONSTRUCTION AND COORDINATED WITH DESIGN INTENT.

M3. ALL CONTROL LOCATIONS AND TYPES TO BE COORDINATED WITH THE TENANT.

M4. LOCATION OF NEW SUPPLY DIFFUSERS OR RETURN GRILLES SHOWN IS FOR REFERENCE ONLY. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR AND FINAL CEILING GRID LAYOUT.

MECHANICAL GENERAL NOTES:

1. REWORK EXISTING DUCT WORK AS NEEDED.

2. PROVIDE SOUND BOOTS ON OPEN RETURN GRILLS.

LIGHT FIXTURE SCHEDULE

"A" 24" x 48" LAY IN LED FIXTURE
LITHONIA LIGHTING #2BLT4 48L ADSM E2J LP835 (OR EQUAL)
COLOR TEMP: 4500K

"A1" 24" x 48" LAY IN LED FIXTURE WITH EMERGENCY BALLAST AND
BATTERY BACK UP
LITHONIA LIGHTING #2BLT4 48L ADSM E2J LP835 (OR EQUAL)
COLOR TEMP: 4500K

"B" 24" x 24" LAY IN LED FIXTURE
LITHONIA LIGHTING #2BLT4 48L ADSM E2J LP835 (OR EQUAL)
COLOR TEMP: 4500K

"B1" 24" x 24" LAY IN LED FIXTURE WITH EMERGENCY BALLAST AND
BATTERY BACK UP
LITHONIA LIGHTING #2BLT4 48L ADSM E2J LP835 (OR EQUAL)
COLOR TEMP: 4500K

MATERIAL LEGEND

CLG-01 24" x 24" ACOUSTICAL CEILING TILE IN WHITE 9/16" T-GRID.
USE RADAR, ARMSTRONG, CALLA, OR EQUAL. VERIFY
WITH OWNER FOR FINAL SELECTION

REFLECTED CEILING PLAN LEGEND

24" X 24" ACOUSTIC
CEILING TILE SYSTEM

24" X 48" ACOUSTIC
CEILING TILE SYSTEM

SUPPLY AIR DIFFUSER

RETURN AIR REGISTER

24" X 48" TROFFER LIGHT

24" X 24" TROFFER LIGHT

MECHANICAL FIXTURE LEGEND

RAG-1 2x2 RETURN GRILL

RAG-2 1x2 SUPPLY DIFFUSER

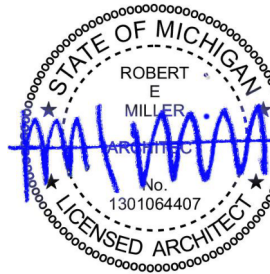
SAG-1 2x2 SUPPLY DIFFUSER

NOTE:
ALL DIFUSERS AND GRILLS TO
BE WHITE COLOR



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PROJECT
NORTHVILLE CITY HALL
OFFICE ADDITION

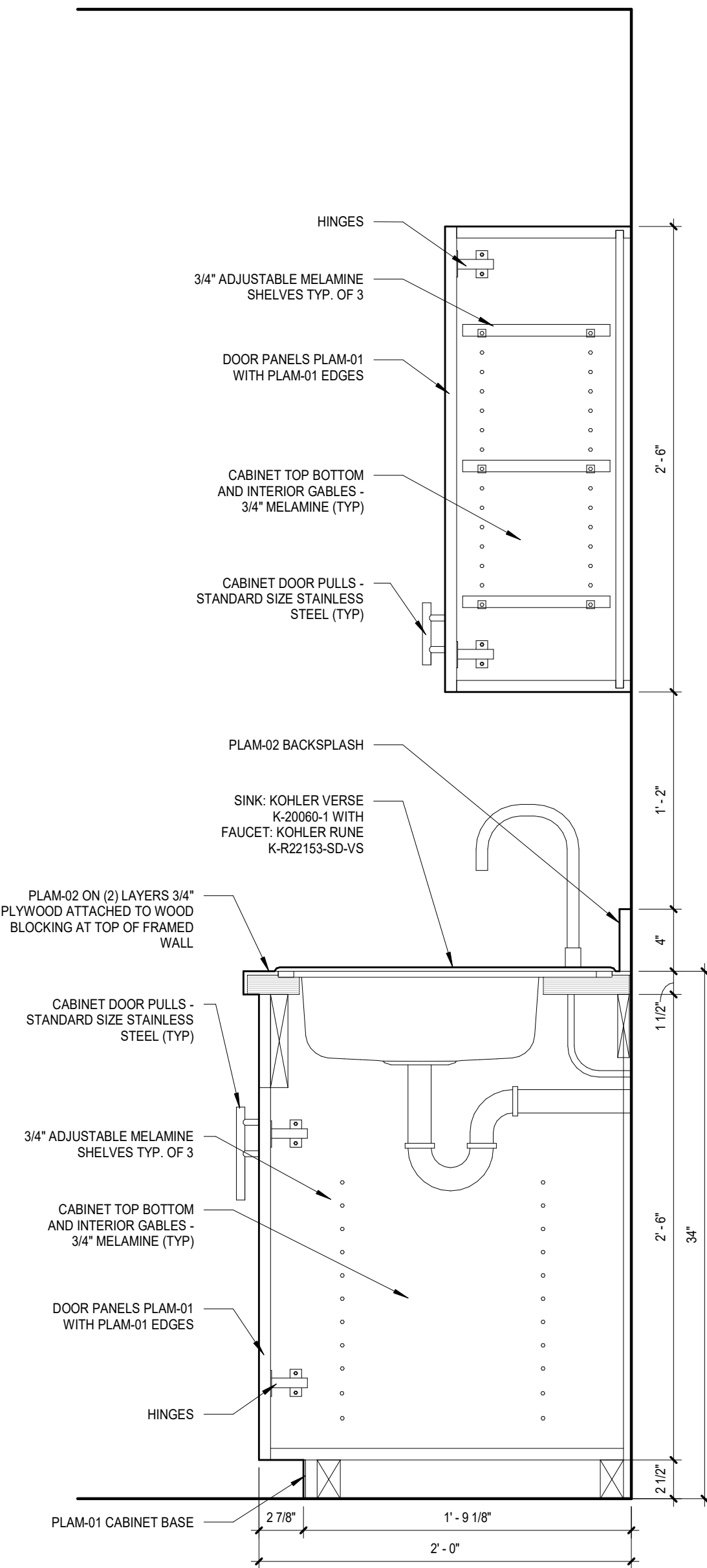
PROJECT ADDRESS
215 W MAIN ST
NORTHVILLE, MI 48167

PROJECT NUMBER
21.31

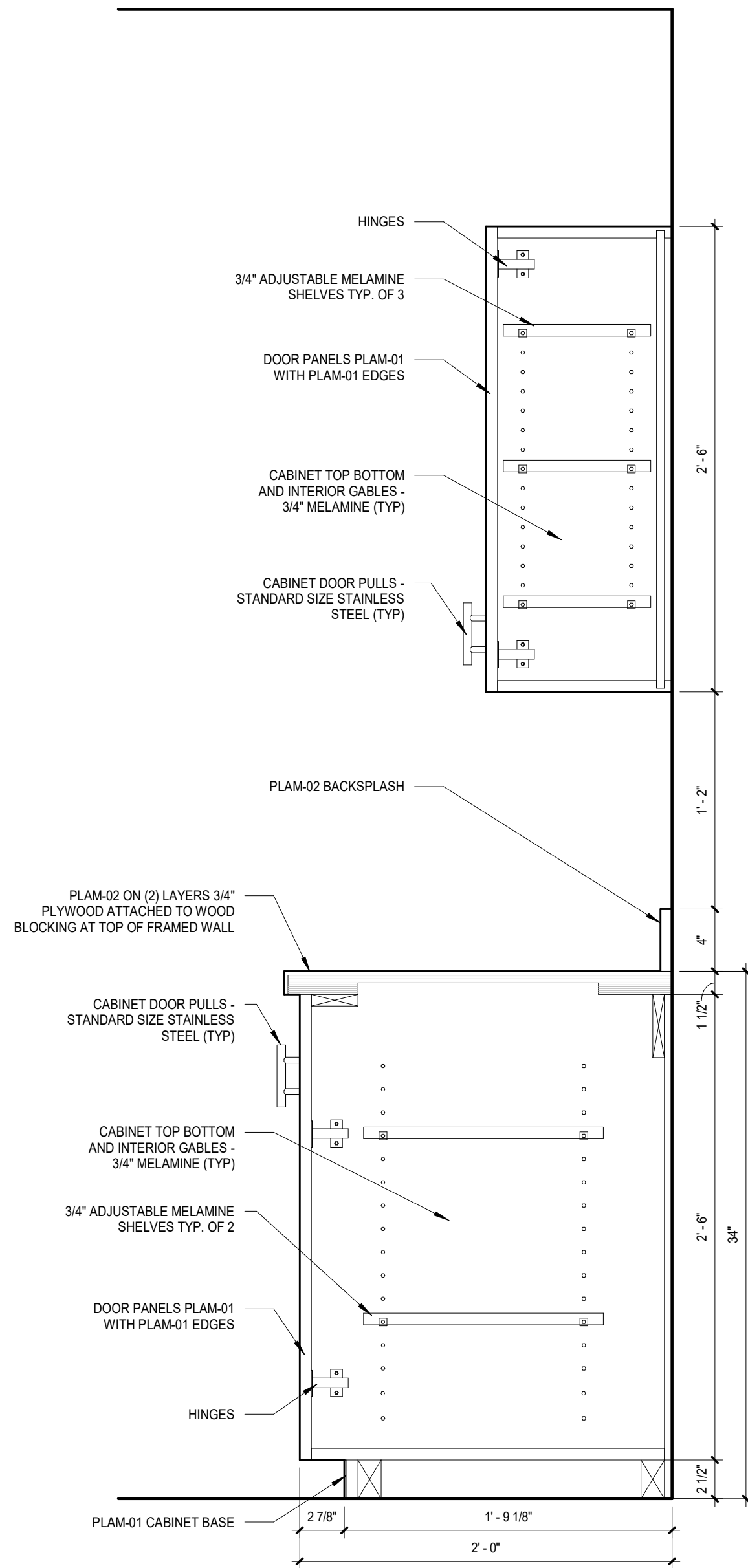
SHEET NAME
MILLWORK SECTIONS,
ENLARGED PLAN, AND
ELEVATIONS

SHEET NUMBER

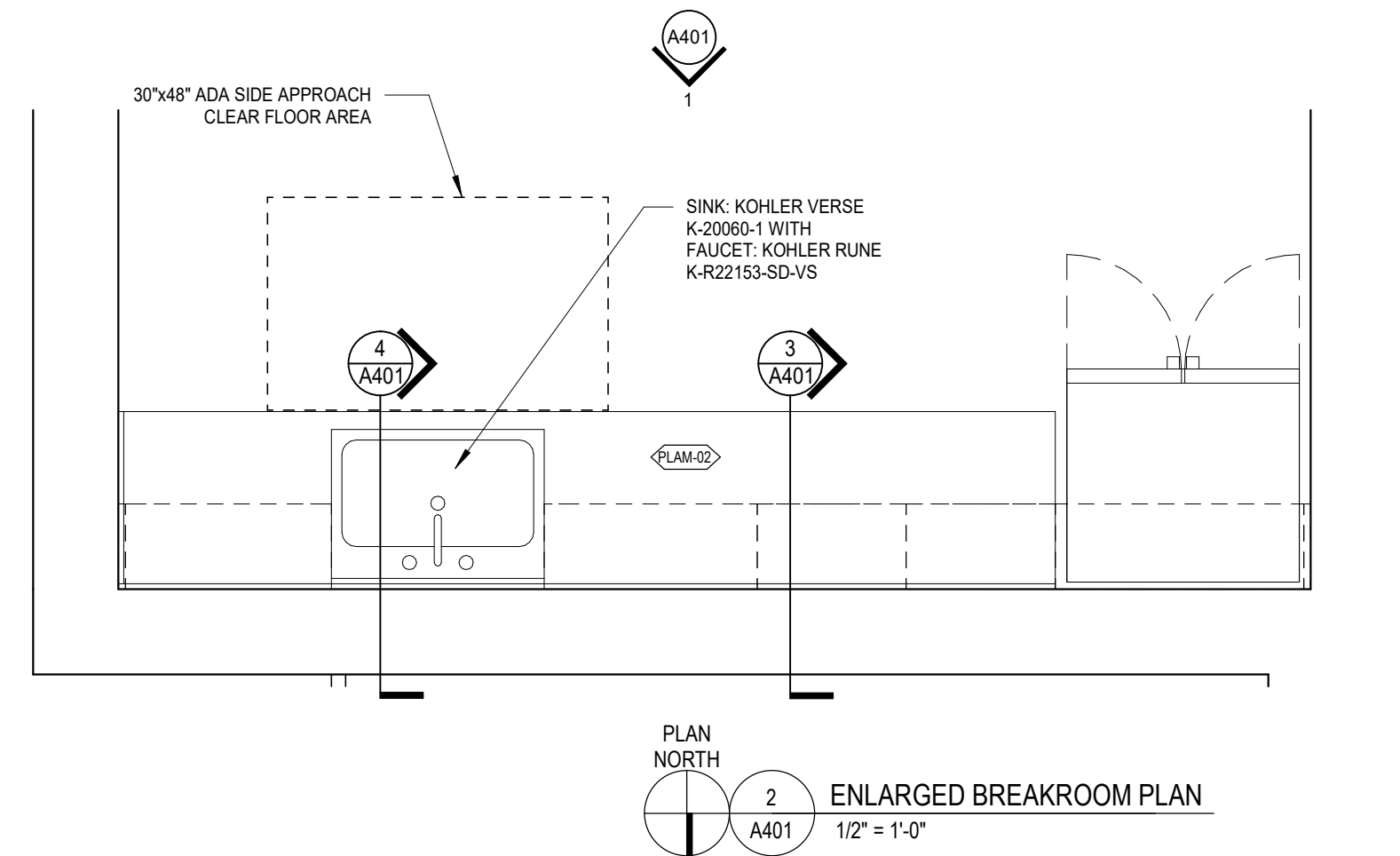
A401



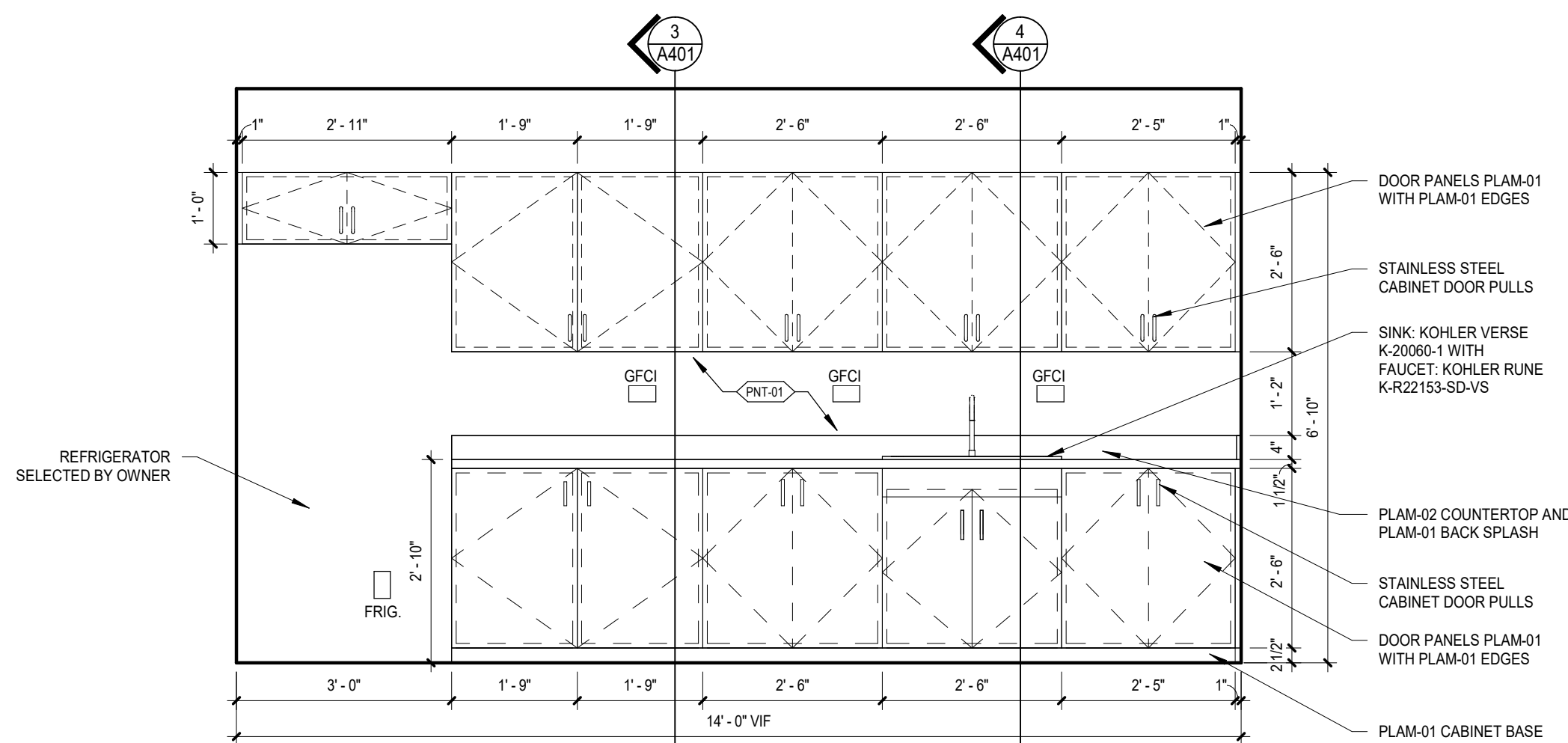
4 SECTION @ BREAKROOM CASEWORK
A401 1 1/2" = 1'-0"



3 SECTION @ BREAKROOM CASEWORK
A401 1 1/2" = 1'-0"



2 ENLARGED BREAKROOM PLAN
A401 1/2" = 1'-0"



1 CASEWORK ELEVATION
@ BRAKROOM
A401 1/2" = 1'-0"

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CONSULTANTS



M
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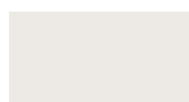
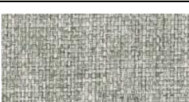

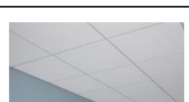
PROJECT
NORTHVILLE CITY HALL
OFFICE ADDITION

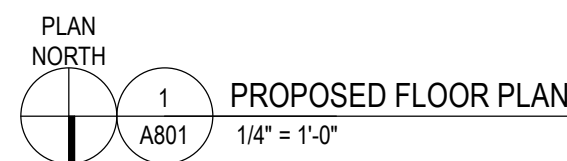
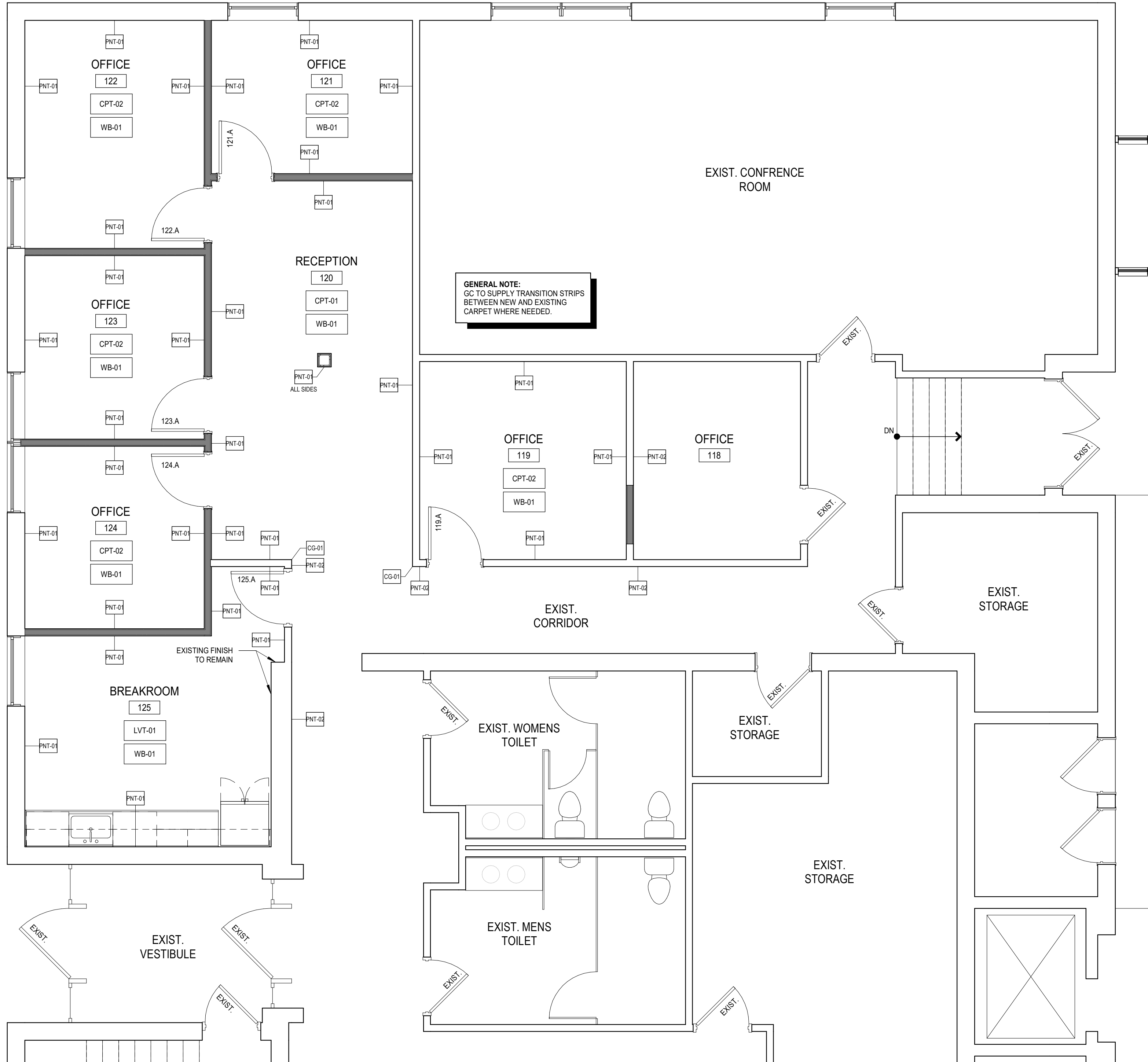
PROJECT ADDRESS
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PROJECT NUMBER
21.31

SHEET NAME
PROPOSED FINISH PLAN

SHEET NUMBER

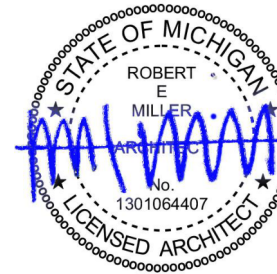
NORTHVILLE CITY HALL FINISH SCHEDULE									
NORTHVILLE, MI Project # 21.32 8-Sep-23									
IMAGE	TAG	DESCRIPTION	MANUFACTURER DISTRIBUTER REP / CONTACT	SIZE	PRODUCT	COLOR / FINISH	NOTES	LOCATION	SAMPLE REQ'D
FLOOR FINISHES									
	LVT-01	VINYL PLANK	INTERFACE CARA BOGOSIAN 248-214-2707	9" X 48"	BRUSHED LINES	COLOR: MOUSSE A01611	INSTALLATION: ASHLAR	BREAKROOM	YES
	CPT-01	CARPET TILE	INTERFACE CARA BOGOSIAN 248-214-2707	9" X 48"	OPEN AIR 407	OAT	INSTALLATION: HERRINGBONE	RECEPTION	YES
	CPT-02	CARPET TILE	INTERFACE CARA BOGOSIAN 248-214-2707	9" X 48"	OPEN AIR 407	OAT	INSTALLATION: ASHLAR	OFFICES	YES
PAINT									
	PNT-01	PAINT	SHERWIN WILLIAMS DAWN CERDA 248-660-3067	N/A	PROMAR 200 ZERO VOC	SNOWBOUND SN 7004 FINISH: SATIN		RECEPTION AND OFFICES	YES
NO IMAGE	PNT-02	PAINT	TO MATCH EXISTING					SEE FINISH PLAN	YES
NO IMAGE	PNT-03	PAINT	TO MATCH EXISTING					DOOR FRAMES	YES
PLASTIC LAMINATE									
	PLAM-01	PLASTIC LAMINATE	ARBORITE KELLY REICH KELLY.REICH@ARBORITE.COM	4" X 8"	HIGH PRESSURE LAMINATE	COLOR: ELEMENTAL ORIGIN FINISH: RM		BREAKROOM CABINETRY	YES
	PLAM-02	PLASTIC LAMINATE	ARBORITE KELLY REICH KELLY.REICH@ARBORITE.COM	4" X 8"	HIGH PRESSURE LAMINATE	P384-VL COLOR: ARCTIC SNOW FINISH: VL	EDGE: MITERED SELF EDGE	BREAKROOM COUNTERTOP	YES
CEILING									
NORTHVILLE CITY HALL FINISH SCHEDULE									
NORTHVILLE, MI Project # 21.32 8-Sep-23									
IMAGE	TAG	DESCRIPTION	MANUFACTURER DISTRIBUTER REP / CONTACT	SIZE	PRODUCT	COLOR / FINISH	NOTES	LOCATION	SAMPLE REQ'D
	CLG-01	ACOUSTICAL CEILING TILE	USG THOMAS RYSDYK 616-890-0719	24" X 24"	MARS	WHITE	EDGE: SQUARE GRID: 9/16 REGULAR	SEE CEILING PLAN	YES
MISCELLANEOUS									
NO IMAGE	WB-01	RUBBER WALL BASE	TARKETT ELYSE BERTLING 248-348-8733	HEIGHT: 4"	TRADITIONAL VINYL	COLOR: BURNT UMBER		SEE FINISH PLAN	NO
NO IMAGE	TR-01	FLOORING TRANSITION	BY GENERAL CONTRACTOR					SEE FINISH PLAN	NO
NO IMAGE	CG-01	CORNER GUARD	KOFFER SALES	3/4"	STAINLESS STEEL CORNER GUARD A674	STAINLESS STEEL	TO RUN FLOOR TO CEILING	SEE FINISH PLAN	NO
GENERAL NOTES: 1. ALL INFORMATION LISTED IS FOR DESIGN INTENT & BUDGETING PURPOSES ONLY - THIS IS NOT INTENDED TO BE A COMPLETE SPECIFICATION. 2. ALL FINAL SELECTIONS TO BE APPROVED BY OWNER. 3. SUBMIT FINISH SAMPLES & SHOP DRAWINGS FOR OWNER & ARCHITECTS REVIEW & APPROVAL. 4. ALL FINAL QUANTITIES, TAKE OFFS & LEAD TIME VERIFICATIONS ARE THE RESPONSIBILITY OF THE GC / VENDOR / CONTRACTOR. 5. VERIFY ATTIC STOCK REQUIREMENTS WITH OWNER. 6. ALL INTERIOR FINISHES TO BE MINIMUM CLASS 1" FLAMESPREAD & SMOKE DEVELOPMENT INDEX. 7. ALL FINISHES TO BE INSTALLED PER MFR INSTALLATION INSTRUCTIONS / GUIDELINES - NO EXCEPTIONS 8. ALL FINISHES TO BE CLEANED AND MAINTAINED PER MFR GUIDELINES - NO EXCEPTIONS									



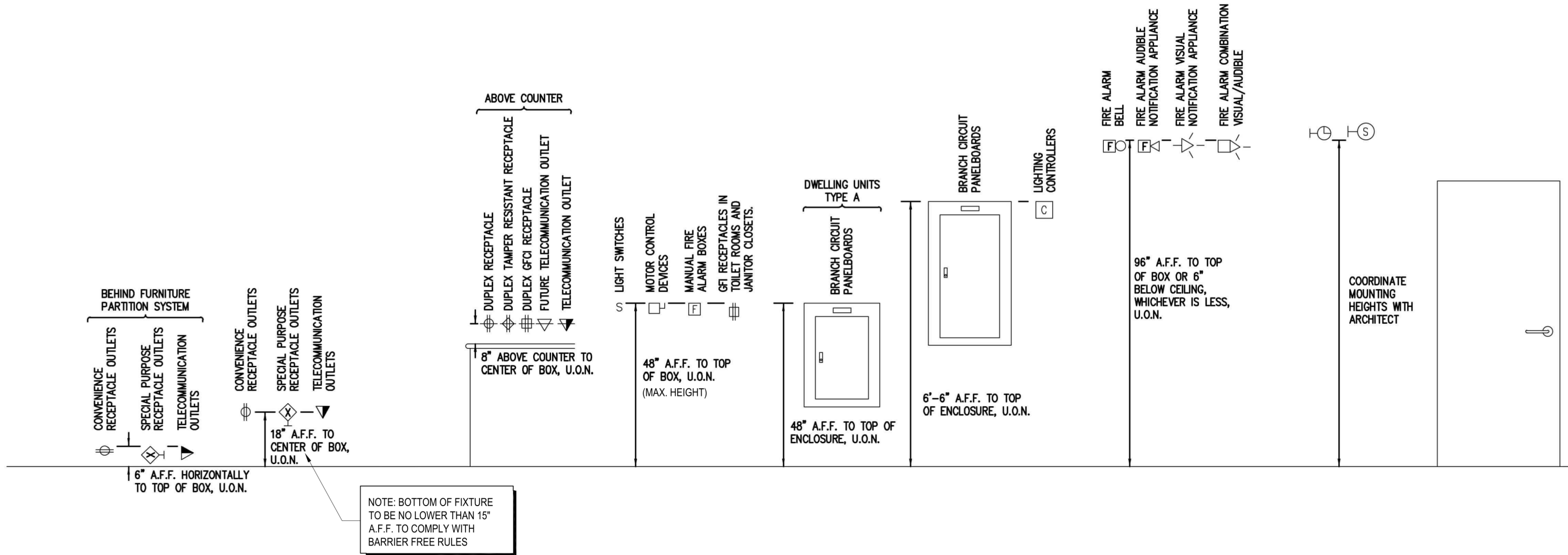
PROPOSED FLOOR PLAN

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STANDARD MOUNTING HEIGHTS



ELECTRICAL SPECIFICATIONS AND GENERAL NOTES :

- THE ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM INSTALLATION.
- MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
- ALL MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., E.T.L., CSA, OR ANOTHER RECOGNIZED TESTING LABORATORY.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES, UTILITY COMPANIES, AND LOCAL CODE OFFICIALS, SHOP DRAWINGS AND/OR INSTALLATION DETAILS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, ENGINEER, AND PROJECT MANAGER IN WRITING OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE FIRE PREVENTION BUREAU ALL DOCUMENTS, INCLUDING DRAWINGS AND SUBMITTALS, REQUIRED TO OBTAIN APPROVAL OF THE EMERGENCY LIGHTING, LIFE SAFETY, AND EXIT SIGN SYSTEM(S) FOR TYPES AND LOCATIONS. A COPY OF THE APPROVED DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AND ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- ALL NEW ELECTRICAL WORK OR MODIFICATIONS TO EXISTING ELECTRICAL DISTRIBUTION PANELS, PANELEARDS, METERS, ETC. SHALL BE INSTALLED AS INDICATED ON THE ELECTRICAL CONSTRUCTION DOCUMENTS. E.C. SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT TO BE INSTALLED INDICATING FLOOR PLAN LAYOUT, ELEVATIONS, AND ALL DIMENSIONS FOR APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION. CODE REQUIRED CLEARANCES IN FRONT OF ALL ELECTRICAL EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE FOLLOWING ADDITIONAL LIFE SAFETY DEVICES, INCLUDING INSTALLATION AND ALL CONDUIT AND WIRE. FOR ADDITIONAL DEVICES AS MAY BE REQUIRED BY THE REVIEW OF THE AUTHORITY HAVING JURISDICTION:
 - EXIT SIGN FIXTURES
 - EMERGENCY LIGHTING FIXTURESCONTRACTOR SHALL PROVIDE A UNIT PRICE FOR EACH FOR QUANTITY ADJUSTMENT.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, MAKE A SCHEDULED ARRANGEMENT WITH THE PROJECT MANAGER TO VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION. ALL COSTS FOR ESTABLISHING AND REMOVING TEMPORARY POWER SHALL BE INCLUDED IN BID.
- THE EXISTING POWER, SIGNAL, AND COMMUNICATIONS SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNERS EXISTING FUNCTIONS. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE PROJECT MANAGER AND SHALL BE ONLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUT-DOWN.
- ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, TOOLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
- ALL CUTTING, DRILLING, AND PATCHING OF MASONRY, DRYWALL, CONCRETE, STEEL, OR IRON WORK BELONGING TO THE BUILDING SHALL BE DONE BY THIS CONTRACTOR IN ORDER THAT WORK MAY BE PROPERLY INSTALLED, UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.
- SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS, AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS (FOR EXAMPLE ALL LIGHTING FIXTURES); PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
- SUBMIT FOUR (2) COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW:
 - LIGHTING FIXTURES AND LAMPS
 - WIRING DEVICES
 - LOW VOLTAGE RELAYS AND SWITCHES
 - DIMMERS AND CONTROLS
- CONTRACTOR SHALL PROVIDE "AS-BUILT" DOCUMENTATION AND HARD COPY REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMIT TO THE ARCHITECT AND THE ENGINEER. AS-BUILT DRAWINGS SHALL INDICATE EXACT CIRCUIT NUMBERS, LOCATIONS OF ALL DEVICES, CEILING FIXTURES, AND RACEWAY FOR LIGHTING, TELECOMMUNICATIONS AND POWER DISTRIBUTION SYSTEMS AS INSTALLED.
- ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW AND OF COMMERCIAL GRADE UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED ON DRAWINGS.
- EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE ELECTRICAL INSTALLATION AS SHOWN ON DRAWINGS SHALL INCLUDE ALL LABOR, INSTALLATION METHODS, EQUIPMENT, AND MATERIALS AND SHALL BE IN STRICT COMPLIANCE WITH ALL BUILDING STANDARDS.
- PROVIDE A COMPLETE METAL RACEWAY SYSTEM, FITTINGS AND ENCLOSURES FOR ALL ELECTRICAL WIRING SYSTEMS TO BE INSTALLED FOR THE PROJECT. SYSTEMS SHALL INCLUDE, BUT NOT BE LIMITED TO POWER, COMMUNICATIONS, SECURITY, PAGING, TEMPERATURE CONTROL, AND CONTROLS.
- MINIMUM CONDUIT SIZE SHALL BE 1/2 INCH FOR GENERAL LIGHTING AND POWER CIRCUITRY UNLESS OTHERWISE INDICATED AND/OR REQUIRED BY CODE.
- FLEXIBLE CONDUIT CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE STEEL CONDUIT, 12 INCH MINIMUM, INCLUDING AN INSULATED COPPER GREEN EQUIPMENT GROUNDING CONDUCTOR OR SHALL BE MADE WITH METAL CLAD TYPE CABLE.
- WIRE NUMBER 8 AND SMALLER FOR USE IN INTERIOR DRY LOCATIONS SHALL BE TYPE THWN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS. FEEDERS AND POWER WIRING NUMBER 6 AND LARGER SHALL BE TYPE THW 600 VOLT INSULATED COPPER. WIRE WHICH IS INSTALLED IN RACEWAY IN MOIST OR DAMP LOCATIONS SHALL BE THW, 600 VOLT INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NUMBER 12 AWG SHALL BE USED FOR LIGHTING OR POWER.
- BRANCH CIRCUIT HOMERUN WIRING:
 - GENERAL PURPOSE BRANCH CIRCUIT HOMERUNS CONSISTING OF TWO NETWORKS SHALL HAVE PHASE, NEUTRAL AND GROUND CONDUCTORS INCREASED TO NUMBER 10 AWG, THWN AS A MINIMUM. WHERE HOMERUN (ONE OR MORE NETWORKS) EXCEEDS 100 LINEAR FEET, CONDUCTOR SIZE SHALL BE INCREASED ONE TRADE SIZE.
 - ALL BRANCH CIRCUITS, FEEDERS, AND HOMERUNS SHALL BE PROVIDED WITH AN INSULATED COPPER GREEN GROUNDING CONDUCTOR ROUTED IN THE SAME CONDUIT. GROUNDING CONDUCTOR SHALL BE SIZED PER THE REQUIREMENTS OF NEC SECTION 250.
 - HOMERUN LENGTH SHALL BEGIN AT THE CENTRAL POINT OF ALL DISTRIBUTED CIRCUITS TO THE PANELEARD CIRCUIT BREAKER.
- ALL NEW CIRCUIT BREAKERS FOR EXISTING PANELEARDS AND DISTRIBUTION PANELEARDS SHALL MATCH EXISTING BUILDING PANELEARD MANUFACTURER AND CIRCUIT BREAKER TYPE. ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. AIC RATING OF NEW CIRCUIT BREAKER SHALL MATCH AIC RATING OF PANELEARD IN WHICH IT IS INSTALLED. WHERE SERIES RATED TYPE CIRCUIT BREAKERS ARE USED, NEW CIRCUIT BREAKERS SHALL BE INSTALLED SO AS TO MAINTAIN THE UL SERIES RATING OF THE ENTIRE SYSTEM. THE CONTRACTOR SHALL PROVIDE A NEW TYPEWRITTEN PANEL DIRECTORY FOR EACH PANEL CHANGED AT THE COMPLETION OF THE PROJECT. EACH CIRCUIT BREAKER SHALL BE LABELED TO IDENTIFY LOAD TYPE AND LOCATION.
- THE CONTRACTOR SHALL VERIFY THE CEILING CONSTRUCTION TYPE WITH ARCHITECTURAL DETAILS BEFORE ORDERING LIGHTING FIXTURES IN ORDER TO CONFIRM PROPER MOUNTING.
- EACH SWITCH, LIGHT, RECEPTACLE, OR OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR SHEARZORDED PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NUMBER 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS SHALL BE LEFT SEALED. THERE SHALL BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
- IN SUSPENDED CEILINGS, SUPPORT CONDUITS AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SYSTEM, DECK OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SUPPORT WIRES OR SPINE UNLESS THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE AND APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND THE ENGINEER.
- E.C. SHALL PROVIDE "3M" FIRESEAL SYSTEMS FOR ALL CORES AND RACEWAY PENETRATIONS IN FIRE RATED WALLS AND PARTITIONS. FIRE RATE WALL AND CEILING PENETRATIONS, ETC. USING "2\"/>

GENERAL ELECTRICAL NOTES

- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- ALL SERVICE REQUIREMENTS SHALL BE IN COMPLIANCE W/ LOCAL UTILITY COMPANY RULES AND REGULATIONS. VERIFY LOCATION OF ALL POWER SOURCES PRIOR TO SUBMITTING BID FOR INTENDED SERVICE REQUIREMENTS AS EVIDENCED BY RISER DIAGRAM SHOWN ON THE PLANS (SEE S.250.71 AND 250.72, NATIONAL ELECTRICAL CODE.).
- CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL, NATIONAL AND OSHA CODE REQUIREMENTS, WHICHEVER IS MOST STRINGENT.
- ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND UTILITY COMPANY CHARGES AND PAY FOR SAME. THE CHARGES SHALL BE INCLUDED IN HIS BID.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPER OPERATING SYSTEM AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN AND/OR REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITERS' LABORATORIES AND SHALL BEAR THE INSPECTION LABEL WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY A.N.S.I., N.E.M.A. AND N.S.F.D.
- MINIMUM WIRE SIZE FOR ALL WORK TO BE #12 COPPER WIRE. ALL WIRE SIZING IS BASED ON THE AMPLACITY OF COPPER. ALL WIRE MUST BE COPPER UNLESS APPROVED OTHERWISE BY THE CITY INSPECTION DEPARTMENT AND THE ARCHITECT/ENGINEER. ONLY MAIN SERVICE WIRING WILL BE APPROVED FOR ALUMINUM CONDUCTOR SUBSTITUTION AND THAT IS DEPENDENT UPON JOB CONDITIONS.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANEL BOARD, PULLBOX, J-BOX, ETC. IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.
- ALL CONDUIT SHALL BE INSTALLED CONCEALED WHERE PHYSICALLY POSSIBLE. ALL EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL, OR AT RIGHT ANGLES WITH THE BUILDING WALLS.
- ALL EXIT LIGHTS, NIGHT LIGHTS AND EMERGENCY LIGHTS TO BE WIRED FROM COMMON LOCKED-ON BREAKERS.
 - EXIT LIGHTS SHALL BE ILLUMINATED INTERNALLY AND HAVE INTEGRAL BATTERY CHARGING CIRCUIT AND AUTOMATIC TRANSFER SWITCH.
- EMERGENCY LIGHTS SHALL BE WALL MOUNTED UNLESS NOTED OTHERWISE AND HAVE INTEGRAL BATTERY CHARGING CIRCUIT AND AUTOMATIC TRANSFER SWITCH. INTENSITY OF FLOOR LIGHTING SHALL NOT BE LESS THAN 1 FOOT CANDLE.
- THE WIRING OF ALL EXIT LIGHTS, EMERGENCY LIGHTS AND NIGHT LIGHTS SHALL BE IN CONDUIT BUT WITH NO RESTRICTION ON THE NUMBER OF OTHER CIRCUITS INCLUDED COMMENSURATE WITH CONDUIT SIZING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EXISTING OR NEW NON-ACCESSIBLE SYSTEM DEVICES, PULLBOXES, AND EQUIPMENT, ETC. FOR RELOCATION TO ACCESSIBLE CEILING AREAS. E.C. SHALL INCLUDE ALL COMPLETE COSTS FOR RELOCATION AND VERIFY SUCH CONDITIONS WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL BIDS.
- EXISTING CONDITIONS OF ALL EXISTING BUILDING EQUIPMENT, DEVICES, FIXTURES, AND SYSTEMS THAT REQUIRE REWIRING, REUSE, RELOCATION, OR REFURBISHING AS PER DRAWINGS AND SPECIFICATIONS SHALL BE FIELD VERIFIED BY THE E.C. PRIOR TO COMMENCEMENT OF ANY WORK TO BE COMPLETELY OPERATIONAL. E.C. SHALL SUBMIT A WRITTEN STATEMENT AND ITEMIZED LISTING OF ALL EXISTING CONDITIONS OF THE FOLLOWING, ALTHOUGH NOT LIMITED TO THOSE LISTED:
 - HVAC EQUIPMENT
 - EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES
 - LIFE SAFETY/FIRE ALARM SYSTEM DEVICES
 - LIGHTING AND RECEPTACLE DEVICES.THE WRITTEN STATEMENT SHALL BE SUBMITTED TO THE PROJECT MGR., ARCHITECT, AND ENGINEER PRIOR TO THE START OF THE CONSTRUCTION COMMENCEMENT WORK WITHOUT SUBMITTAL. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COST TO MAINTAIN THE ABOVE IN GOOD WORKING ORDER AND CONDITION.
- E.C. SHALL REFER TO MECHANICAL AND PLUMBING ENGINEERING DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT.

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PLUMBING SPECIFICATIONS

GENERAL CONDITIONS
THE REQUIREMENTS AS SET FORTH UNDER GENERAL CONDITIONS, INSTRUCTIONS TO BIDDER AND GENERAL REQUIREMENTS ARE A PART OF THIS CONTRACT.

VISIT TO SITE
THIS CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. NO CLAIMS FOR "EXTRA" COMPENSATION DUE TO UNFAMILIARITY WITH EXISTING CONDITIONS AND/OR ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS AND SPECIFICATIONS WILL BE CONSIDERED.

CODES AND PERMITS
INSTALL ALL WORK IN FULL ACCORDANCE WITH CODES, RULES AND REGULATIONS OF MUNICIPAL, COUNTY, STATE, PUBLIC UTILITY, AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTION INCIDENTAL TO HIS WORK REQUIRED BY THE FOREGOING AUTHORITIES.

SCOPE OF WORK
WORK UNDER THIS DIVISION SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, ETC. NECESSARY FOR THE INSTALLATION OF A PLUMBING SYSTEM FOR THE TENANT, COMPLETE IN EVERY RESPECT, UNLESS SPECIFICALLY INDICATED OTHERWISE. THE WORK INCLUDED IN THIS SUBCONTRACT SHALL CONSIST OF INSTALLATION, TEST AND GUARANTEE OF THE FOLLOWING WORK:

- FURNISH AND INSTALL NEW WASTE AND VENT LINES AS REQUIRED TO ACCOMMODATE NEW FIXTURES.
- MODIFIED SANITARY SEWER SYSTEM COMPLETE WITH PLUMBING FIXTURES AND TRIM, WASTE AND VENT LINES WITH EXTENSION TO EXISTING WASTE AND VENT STACKS AS SHOWN.
- NEW HOT AND COLD WATER SYSTEM COMPLETE WITH PIPING AND VALVES COMPLETE WITH CONNECTIONS TO ALL PLUMBING FIXTURES. NEW COLD WATER SERVICE SHALL BE EXTENDED FROM EXISTING COLD WATER LINE WITH A NEW VALVED CONNECTION. PROVIDE REMOTE READER AND ALL VALVES AS REQUIRED.
- PIPE INSULATION AS SPECIFIED.
- ALL TESTS AND ADJUSTMENTS.
- ALL PERMITS AND FEES.

WORK BY OTHERS
ALL WALL AND FLOOR OPENINGS WILL BE PROVIDED BY THE GENERAL CONTRACTOR BUT THIS CONTRACTOR SHALL INSTRUCT THE GENERAL CONTRACTOR AS TO THE EXACT SIZE AND LOCATION OF SUCH OPENINGS. ALL OPENINGS IN FLOORS TO BE SEALED WITH 3M FIRE BARRIER MASTIC.
ALL ELECTRICAL POWER AND WIRING WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

PIPE AND FITTINGS
SANITARY SEWER PIPES SHALL BE CISPI 301-85 NO-HUB CAST-IRON PIPE WITH NO-HUB COUPLINGS. NO-HUB COUPLINGS SHALL BE AS MANUFACTURED BY CLAMP-ALL CORPORATION AND MADE OF 24-GAUGE TYPE 304 STAINLESS STEEL WITH 16-TORQUE CLAMPS TIGHTENED TO 100-125 INCH-POUNDS OF TORQUE. COUPLING GASKETS SHALL BE NEOPRENE AND INTERLOCK WITH THE ASSEMBLY TO MAKE A SLIP FREE JOINT.

SANITARY WASTE AND VENT STACKS 2-1/2" AND SMALLER ABOVE FLOOR SHALL BE SCHEDULE #40 GALVANIZED STEEL. ASTM 120-83, DWV COPPER ASTM B306-83 OR SCHEDULE #40 PVC PLASTIC PIPE ASTM D1785-83 AND FITTINGS WITH SOLVENT WELDED DRAINAGE FITTINGS.

EXPOSED PLASTIC PIPE IN RETURN AIR PLENUMS IS NOT PERMITTED. ALL PVC LOCATED IN PLENUM SPACE SHALL BE ENCASED IN FIRE-RETARDANT MATERIAL.

COLD AND HOT WATER PIPING: ASTM B-88-83A TYPE "L" COPPER TUBING WITH WROUGHT DRAWN COPPER SOLDERED FITTINGS, 90-DEGREE ELLS ON PIPE 2-1/2-INCHES AND LARGER SHALL BE LONG RADIUS. UNDERGROUND DOMESTIC WATER SERVICE: TYPE "K" SOFT COPPER TUBING WITH BRAZED WROUGHT COPPER FITTINGS.

JOINTS IN COPPER TUBING: MADE WITH FLUX AND ASTM B32-83 95-5 TIN-ANTIMONY OR SOLDER AS RECOMMENDED BY MANUFACTURER FOR THE SERVICE, PRESSURE AND TEMPERATURE TO WHICH THE JOINT WILL BE SUBJECTED. BRAZING ALLOY: 59-1 COPPER-PHOSPHOROUS OR 45-25-30 SILVER-ZINC-COPPER.

SCREWED PIPE: ASSEMBLED WITH SHARP, CLEAN, TAPERED THREADS USING PIPE COMPOUND ON THE MALE THREAD ONLY. MILL CUT THREADS ARE NOT ACCEPTABLE. ALL CUT PIPE SHALL BE REAMED TO THE FULL INSIDE DIAMETER.

WATER HAMMER PROTECTION
THIS SUBCONTRACTOR SHALL FURNISH A INSTALL AIR CHAMBERS AT EACH HOT & COLD WATER FIXTURE CONNECTION. CHAMBER SHALL BE 1/8-INCHES HIGH & OF THE SAME DIAMETER AS THE FIXTURE CONNECTION, BUT NOT LESS THAN 1/2-INCH.

ESCUOTCHONS
ALL PIPE PASSING THROUGH WALLS, FLOORS OR CEILINGS IN FINISHED ROOMS SHALL BE FITTED WITH STEEL OR BRASS ESCUOTCHONS WITH SET SCREW. WHERE SURFACE IS TO RECEIVE A PAINT FINISH, THE ESCUOTCHONS SHALL BE PRIME PAINTED; OTHERWISE, THE ESCUOTCHONS SHALL BE A NICKEL PLATED CHROME FINISH.

DRAWINGS AND SPECIFICATIONS
THE PLUMBING DRAWINGS ARE INTENDED TO SHOW ALL FIXTURES AND ALL PIPING IN DIAGRAMMATIC FORM. LOCATIONS ARE APPROXIMATE ONLY AND MUST BE CHECKED ON THE JOB. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND/OR STATE CODE REQUIREMENTS.

ITEMS SPECIFIED BY MANUFACTURERS NAME AND/OR MODEL NUMBER INDICATES THE MINIMUM QUALITY, SIZE AND CAPACITY REQUIRED. OTHER MANUFACTURERS PRODUCTS OF EQUAL QUALITY SPECIFICATIONS WILL BE CONSIDERED BUT ONLY IF NOTED AT THE TIME OF BIDDING AND WITH THE WRITTEN APPROVAL OF THE ARCHITECT PRIOR TO PURCHASING THE EQUIPMENT.

PROTECTION DURING CONSTRUCTION
PLUMBING FIXTURES, TRIM AND OTHER EQUIPMENT SHALL BE PROTECTED AGAINST DAMAGE OR INJURY. ALL FIXTURES AND EQUIPMENT DAMAGED BY ANY CAUSE AND ANY TRIM WITH MARKED OR SCRATCHED FINISH SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER. THE FIXTURE PROTECTION SHALL BE REMOVED AT THE COMPLETION OF THE WORK OR FOR FINAL INSPECTION.

CLEANOUTS
A CLEANOUT SHALL BE INSTALLED AT THE BASE OF EACH SOIL AND WASTE STACK, AND AT NOT MORE THAN 50'-0" INTERVALS ON HORIZONTAL RUNS AND AS REQUIRED BY CODE. CLEANOUTS SHALL BE THE SAME SIZE AS THE PIPE THEY SERVE, EXCEPT THEY NEED NOT BE LARGER THAN 4-INCHES.

HANGERS
ALL HORIZONTAL PIPE SHALL BE SUPPORTED ON ADJUSTABLE SPLIT STEEL RING CLEVIS HANGERS AND THREADED RODS SPACED NOT OVER 10'-0" ON CENTERS FOR PIPE 1-1/2" AND LARGER AND 8'-0" ON CENTERS FOR PIPE 1-1/4" AND SMALLER. CHAIN OR BAND IRON HANGERS WILL NOT BE ACCEPTABLE.

PIPE SIZES	ROD DIAMETER
Up to 2"	3/8"
2-1/2" and 3"	1/2"
4" and 5"	5/8"
6" and 8"	3/4"

(3/8" RODS ARE PERMISSIBLE FOR ALL PLASTIC VENT LINES)

RODS, WHERE EXPOSED TO VIEW, SHALL BE GALVANIZED FINISH OR BE CLEANED AND PRIME PAINTED.

STANDARD MILL FINISH MAY BE USED IN AREAS ABOVE HUNG CEILINGS.

PROVIDE ADJUSTABLE PIPE SADDLE SUPPORTS, FEE & MASON FIG. 291, FOR SUPPORTING ANY PIPING WITHIN AN UNDERFLOOR SPACE.

- HANGER INSERTS**
- IN CONCRETE: FEE & MASON FIG. 2570.
 - IN PRE-CAST CONCRETE: GRINNELL FIG. 117 OR PHILLIPS CONCRETE FASTENERS.

VALVES
VALVES SHALL BE INSTALLED WHERE INDICATED ON DRAWINGS AND WHERE NECESSARY FOR PROPER AND SAFE OPERATION AND MAINTENANCE OF THE SYSTEM.

VALVES 3/4-INCH AND SMALLER AND ALL BYPASS AND THROTTLING VALVES SHALL BE GLOVE OR ANGLE PATTERN. UNLESS OTHERWISE INDICATE OR SPECIFIED, ALL OTHER VALVES SHALL BE GATE VALVES.

ALL VALVES 2-1/2-INCH AND LARGER SHALL HAVE CAST-IRON BODIES BRONZE MOUNTED. SMALLER VALVES SHALL BE BRASS.

ALL VALVES SHALL BE CRANE OR APPROVED EQUAL:

2-INCH AND SMALLER	2-1/2-INCH AND LARGER
Gate 438	Gate 465-1/2"
Globe 7	Globe 373
Check 37	Check 369
Ball (3 piece) 3800"	Ball (Buna-N) G-3500"
	Butterfly (Stainless) SC 6201-3"

*Grimell

VALVES IN COPPER TUBING 1-INCH AND LARGER SHALL BE THE SAME AS STEEL AND SHALL BE INSTALLED WITH SCREWED OR FLANGED ADAPTORS AS REQUIRED.

UNIONS
THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL UNIONS NECESSARY FOR THE INSTALLATION AND ALL UNIONS NECESSARY TO PERMIT THE REMOVAL OF EQUIPMENT.

UNIONS IN STEEL PIPE 1-1/2-INCHES AND SMALLER SHALL BE MALLEABLE IRON, GROUND JOINT UNIONS WITH BRASS TO IRON SEAT, GALVANIZED OR BLACK, AS REQUIRED.

PROVIDE DIELECTRIC UNIONS WHERE DISSIMILAR METALS ARE JOINED.

PIPE INSULATION
HOT WATER AND COLD WATER PIPING SHALL BE COVERED WITH 1-INCH THICK FIBERGLASS SECTIONAL INSULATION WITH 4-0Z. A.S.I. JACKET. ALL FITTINGS, VALVE BODIES, ETC., IN HOT WATER PIPING SHALL BE COVERED WITH INSULATING MATERIAL OF THE SAME COMPOSITION AS THE PIPE COVERING TO THE SAME TOTAL THICKNESS AS THE ADJOINING COVERING. COVERING ADJACENT TO FLANGES AND UNION SHALL BE NEATLY BEVELED ON 45-DEGREE ANGLE.

ALL FITTINGS, VALVE BODIES, ETC., SHALL BE COVERED WITH INSULATING MATERIAL OF THE SAME COMPOSITION AS THE PIPE COVERING WITH ZESTON PLASTIC JACKET.

INSULATION ON ALL PIPING SHALL ENCLOSE THE PIPE HANGER. ALL PARTS OF THE HANGARS SUBJECT TO SURFACE CONDENSATION SHALL BE INSULATED WITH MORTELL "NO-DRIP", BENJAMIN FOSTER NO. 60-24 INSULATION.

SHOP DRAWINGS
THIS CONTRACTOR SHALL SUBMIT FOUR (4) COPIES OF SHOP DRAWINGS AND/OR CUTS OF EQUIPMENT, CORRECT SUCH DRAWINGS AS DIRECTED BY THE ENGINEER AND RESUBMIT FOR FINAL APPROVAL.

TESTS AND ADJUSTMENTS
THIS SUBCONTRACTOR SHALL FURNISH ALL TOOLS, INSTRUMENTS AND EQUIPMENT REQUIRED FOR TESTING AND SHALL MAKE ALL TEMPORARY CONNECTIONS.

ALL PARTS OF THE SOIL AND WASTE DRAINAGE SYSTEMS SHALL BE TESTED AS REQUIRED BY LOCAL PLUMBING CODES.

ALL WATER PIPING SHALL BE TESTED TO 125-LBS. HYDROSTATIC PRESSURE BEFORE IT IS CONCEALED.

ALL DEFECTS WHICH DEVELOP UNDER TESTS SHALL BE REPAIRED PROMPTLY AND THE TESTS SHALL BE REPEATED. NO CAULKING OF SCREWED JOINTS, CRACKS OR HOLES WILL BE PERMITTED. LEAKS IN SCREWED JOINTS SHALL BE REPAIRED BY REPLACING THE PIPE OR THE FITTING OR BOTH WITH NEW MATERIAL. WHERE IT IS FOUND NECESSARY TO REPLACE A PIECE OF PIPE, THE REPLACEMENT PIECE SHALL BE OF THE SAME LENGTH AS THE DEFECTIVE PIECE.

LEAKS IN COPPER TUBING SHALL BE REPAIRED BY MELTING OUT THE JOINT, THOROUGHLY CLEANING BOTH THE TUBING AND THE FITTING AND RESOLDERING.

GUARANTEE
THE SUBCONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR. IF ANY DEFECTS DUE TO SUCH CAUSES DEVELOP WITHIN ONE (1) YEAR AFTER FINAL ACCEPTANCE OF OWNER, THE SUBCONTRACTOR SHALL REMEDY SUCH DEFECTS WITHOUT COST TO OWNER.

NOTE
ALL DRAWINGS AND SPECIFICATIONS FOLLOW THE BASE BUILDING CRITERIA DRAWINGS AND SPECIFICATIONS. REFER TO THE LANDLORD'S BASE BUILDING DRAWINGS & SPECIFICATIONS FOR FURTHER INFORMATION AND DETAILS.

ELECTRICAL POWER SYMBOLS	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE - NEMA 5-20R, UNO (X* INDICATES DISTANCE ABOVE FINISHED FLOOR)
	DOUBLE-DUPLEX (QUAD) RECEPTACLE - NEMA 5-20R, UNO (X* INDICATES DISTANCE ABOVE FINISHED FLOOR)
	RECEP. LETTER DESIGNATIONS AS FOLLOWS: GFCI = GROUND FAULT CIRCUIT INTERRUPTER WP = WEATHERPROOF
	TELEPHONE / DATA OUTLET - WALL MOUNTED (INSTALL TELE / DATA BOX AT SAME ELEVATION AS ADJACENT POWER RECEPTACLE, UNO)
	JUNCTION BOX
	VARIABLE SPEED DRIVE
	TIME SWITCH
	ELECTRICAL PANEL - 'X' DESIGNATES PANEL FOR SCHEDULE, SEE SHEET E201

KEYED NOTES: POWER PLAN

- COORDINATE WITH OWNER FOR REMOVAL OF ANY EXISTING DATA / PHONE OUTLETS. COORDINATE LOCATION OF PROPOSED WITH OWNER.
- EXISTING OUTLETS TO REMAIN WHERE POSSIBLE. REPLACE WITH GFCI OUTLETS WHERE REQUIRED; REMOVE OUTLETS AS NEEDED AND PROVIDE BLANK COVER PLATE. OUTLET LOCATIONS SHOWN ARE FOR GENERAL LAYOUT ONLY; COORDINATE WITH OWNER AND ANY EXISTING OUTLETS.
- NEW SWITCH / OUTLET / DATA IN EXISTING WALLS.
- POWER AND LIGHTING THIS ROOM TO REMAIN.
- EXISTING OUTLETS THIS ROOM TO REMAIN.
- NEW OUTLETS SHOWN ABOVE COUNTER TO BE VERIFIED WITH EXISTING.
- REFRIGERATOR
- NEW COMBINATION OCCUPANCY SENSOR / DIMMER SWITCH.
- ONE OUTLET IN EACH ROOM TO BE CONNECTED TO EXISTING GENERATOR.
- G.C. TO PROVIDE 4-PORT, CAT 6 WALL PLATES FOR LOW VOLTAGE LOCATIONS. LOW VOLTAGE WIRING BY OWNER.

GENERAL NOTES: POWER PLAN

- COORDINATE ALL DEVICE LOCATIONS, MOUNTING HEIGHTS, AND SPACING WITH OWNER AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
- IN GENERAL, DEVICES AT LOW HEIGHTS SHALL BE STACKED DIRECTLY BELOW DEVICES AT HIGHER ELEVATIONS. PROVIDE CONDUIT OFFSET AS NECESSARY.
- REUSE EXISTING CIRCUITING WHERE POSSIBLE.
- MAINTAIN EXISTING OUTLETS WHERE POSSIBLE.
- COORDINATE ALL OUTLET NEEDS AND LOCATIONS WITH OWNER AND OWNER'S EQUIPMENT.
- COORDINATE ALL POWER REQUIREMENTS FOR SPECIFIC EQUIPMENT WITH OWNER INCLUDING ADDITIONAL, OR REDUCED, QUANTITIES OF OUTLETS.
- PROVIDE CIRCUITS AND POWER TO NEW VAV ABOVE CEILING.
- ALL LOW VOLTAGE BY OWNER.

GENERAL NOTES: LIGHTING PLAN

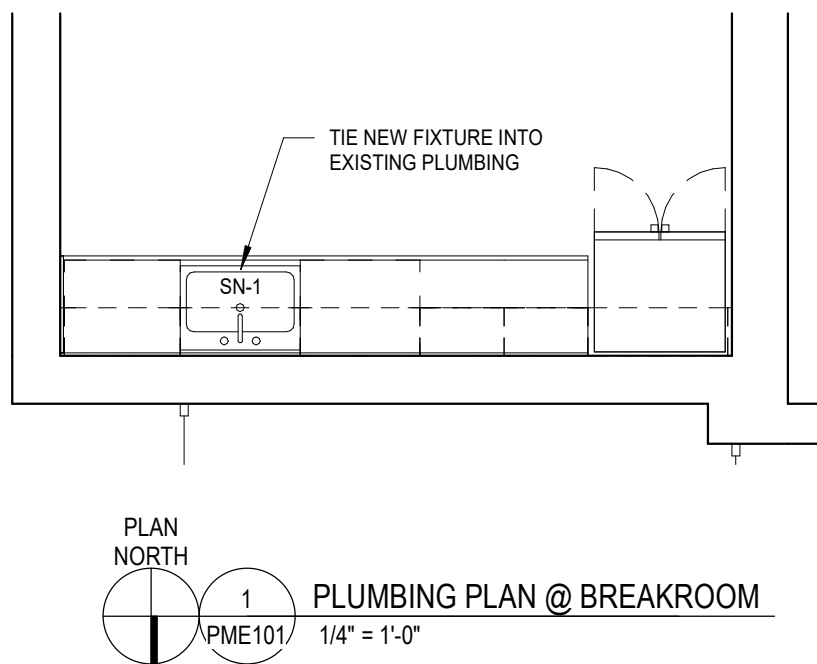
- ALL EXIT SIGNS, AND EMERGENCY LIGHTING SHALL BE CONNECTED TO THE LINE SIDE OF SWITCH CONTROLLING AREA LIGHTING.
- MULTIPLE SWITCH LOCATIONS SHALL HAVE A MULTI-GANG JUNCTION BOX WITH COMMON COVERPLATE.
- ELECTRICAL CONTRACTOR MAY REUSE EXISTING BOXES AND RACEWAY FOR NEW LIGHTING CIRCUITING WHERE APPLICABLE.
- COORDINATE FINAL LOCATIONS OF SWITCHING WITH TENANT PER INTENDED ENTRY INTO ROOMS AND SPACES.
- OWNER TO REVIEW AND APPROVE ALL FIXTURES.

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE	PIPE CONNECTION SIZE				MANUFACTURER	MODEL	DESCRIPTION	FL. DEVICE/FAUCET/OTHER	NOTES	COMMENTS
		WASTE	VENT	CW	HW						
SN-1	SINK	1 1/2"	1 1/4"	1/2"	1/2"	KOHLER	VERSE K-20060-1	TOP MOUNT	KOHLER RUNE K-R22153-SD-VS	1.2.3	A

NOTE KEY:
1. A.D.A. BARRIER FREE MOUNTING HEIGHT, WHERE REQUIRED
2. FLEXIBLE SUPPLIES W/ KEYED STOPS
3. CHROME PLATED BRASS "P" TRAP

COMMENT KEY:
A. TIE ALL CONNECTIONS INTO EXISTING

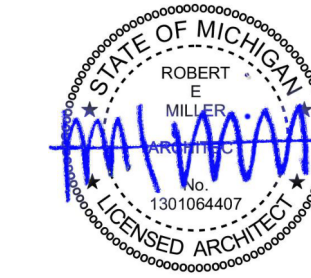


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09.08.2023 BID AND PERMIT

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LIGHT FIXTURE SCHEDULE

- "A" 24" x 48" LAY IN LED FIXTURE
LITHONIA LIGHTING #2BLT4 48L AD5M EZI LP835 (OR EQUAL)
COLOR TEMP: 4500K
- "A1" 24" x 48" LAY IN LED FIXTURE WITH EMERGENCY BALLAST AND BATTERY BACK UP
LITHONIA LIGHTING #2BLT4 48L AD5M EZI LP835 (OR EQUAL)
COLOR TEMP: 4500K
- "B" 24" x 24" LAY IN LED FIXTURE
LITHONIA LIGHTING #2BLT4 48L AD5M EZI LP835 (OR EQUAL)
COLOR TEMP: 4500K
- "B1" 24" x 24" LAY IN LED FIXTURE WITH EMERGENCY BALLAST AND BATTERY BACK UP
LITHONIA LIGHTING #2BLT4 48L AD5M EZI LP835 (OR EQUAL)
COLOR TEMP: 4500K



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SHEET NAME
PLUMBING, AND POWER
/ LIGHTING PLANS, AND
GENERAL NOTES

SHEET NUMBER

