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# ADDENDUM 1

**Project:** HARRISON PARK ACADEMY – NEW HEALTH CLINIC

**Date:** October 7, 2024

**Project No.:** 1322

## GENERAL NOTICE

- A. This addendum to the specifications and drawings for the above-captioned project adds to or supersedes all contrary or conflicting information in specifications and drawings which is amended in the following paragraphs. This addendum is to become part of bidding documents as originally issued.
- B. The General Contractor and all Subcontractors shall review the entire addendum, for revisions or clarifications regarding their work.
- C. This Addendum includes Sheets: A-1, P-1, MD-1, M-1, M-2, EL-1, EP-1, E1.00
- D. Add notation to your bid indicating the acknowledgement that you have received and reviewed this addendum.

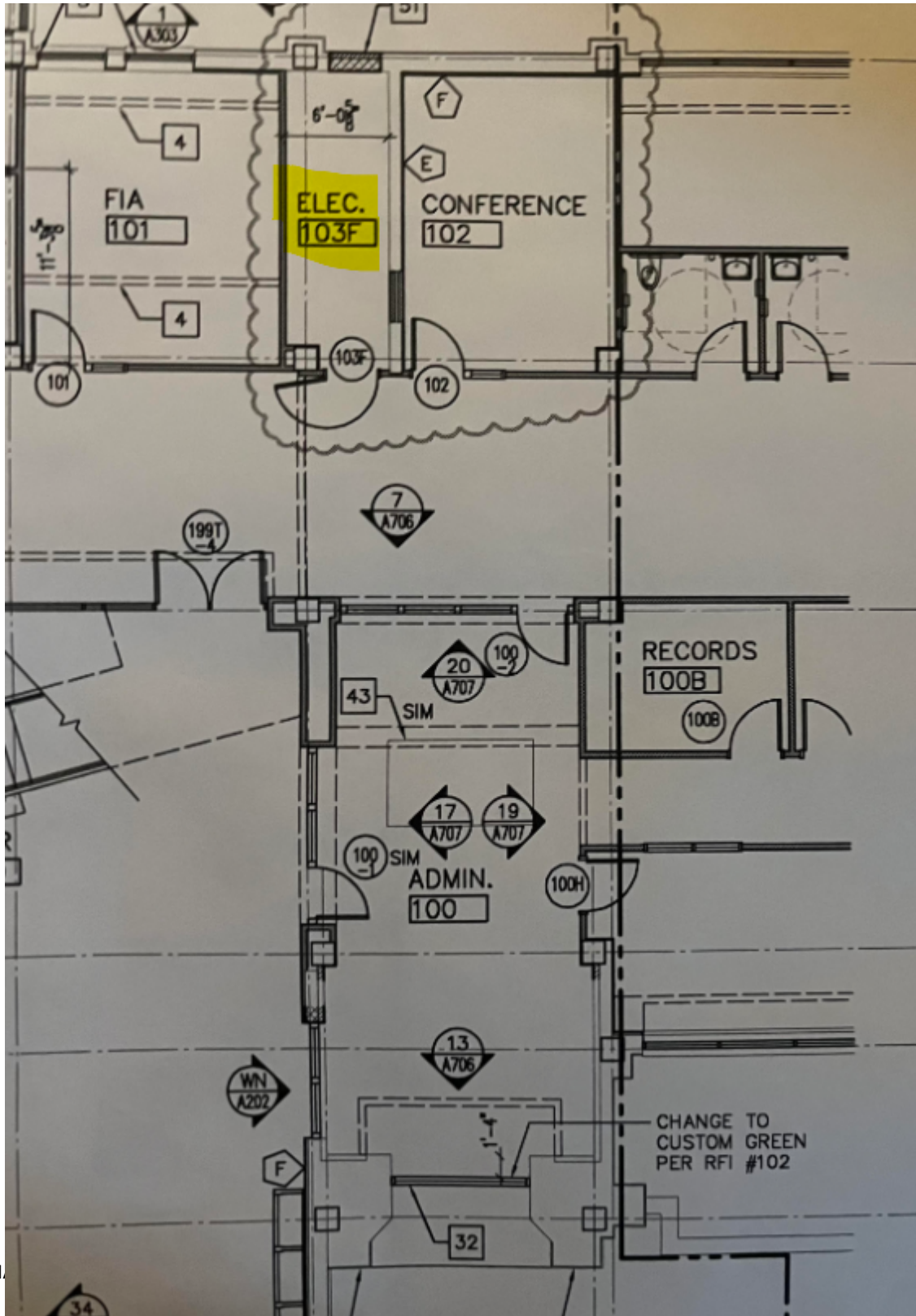
## Addendum 1 – Items

1. The term Health Clinic is in name only. The purpose of this renovation is to move existing school health services office to this new location.
2. This Addendum includes missing MEP sheets, listed above.
3. New doors are 100-A and 100J-1. All doors are 1 ¾". All other doors are existing with hardware modification only. Doors may be site finished to match existing stain.
4. In Sick Room 100B, extend access panels through the base cabinets, there are (3) 12" round access covers.
5. At doors 100J-2, replace two vertical blinds after wall is constructed. Match existing, this work is part of the Alternate 1 work.
6. Relocate volume and loudspeaker in room 100J, this work is part of the Alternate 1 work.
7. Owner is responsible for telephone work.
8. Match carpet tile as close as possible. There is no available attic stock.
9. See A-1 for sawcut adjustment.
10. Existing breaker panel is located directly across the Corridor of Room 100.



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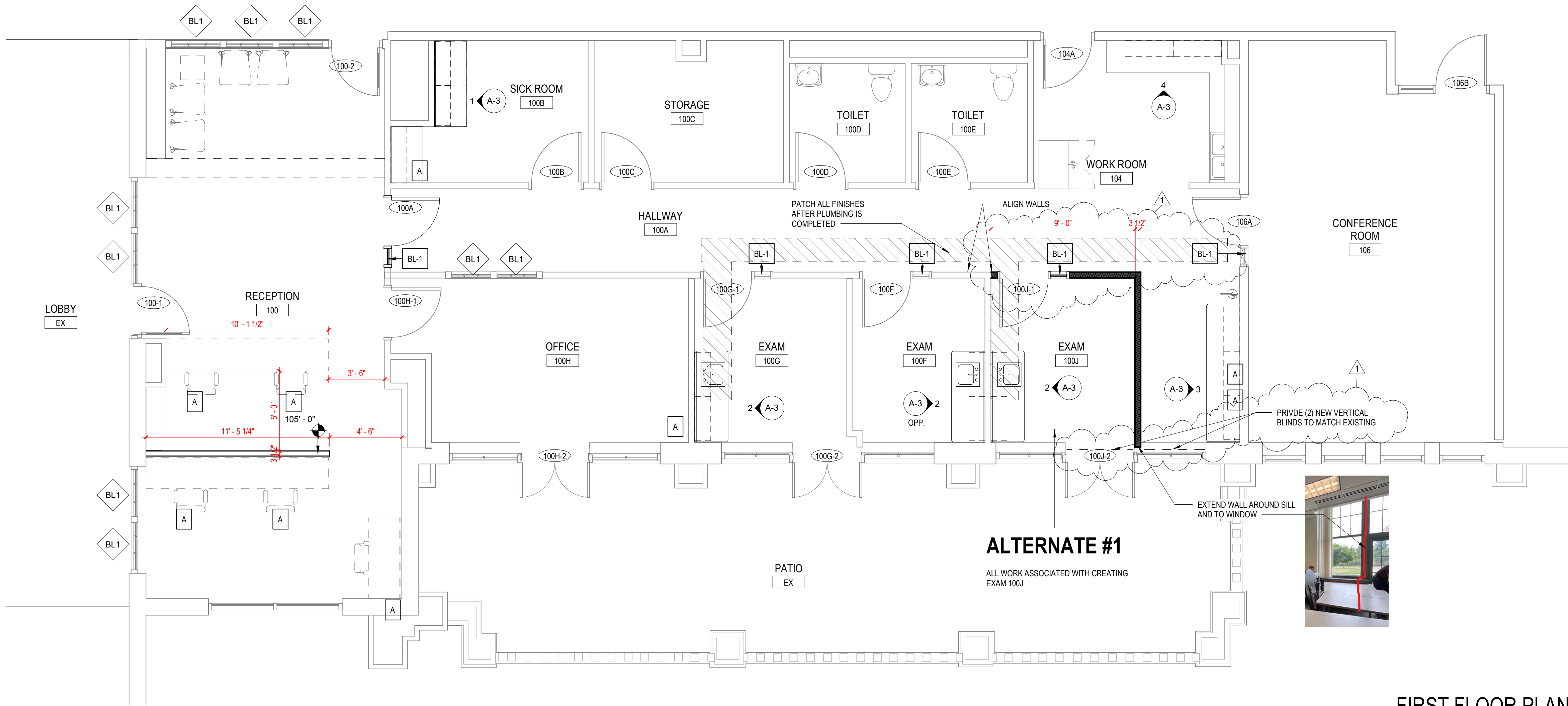




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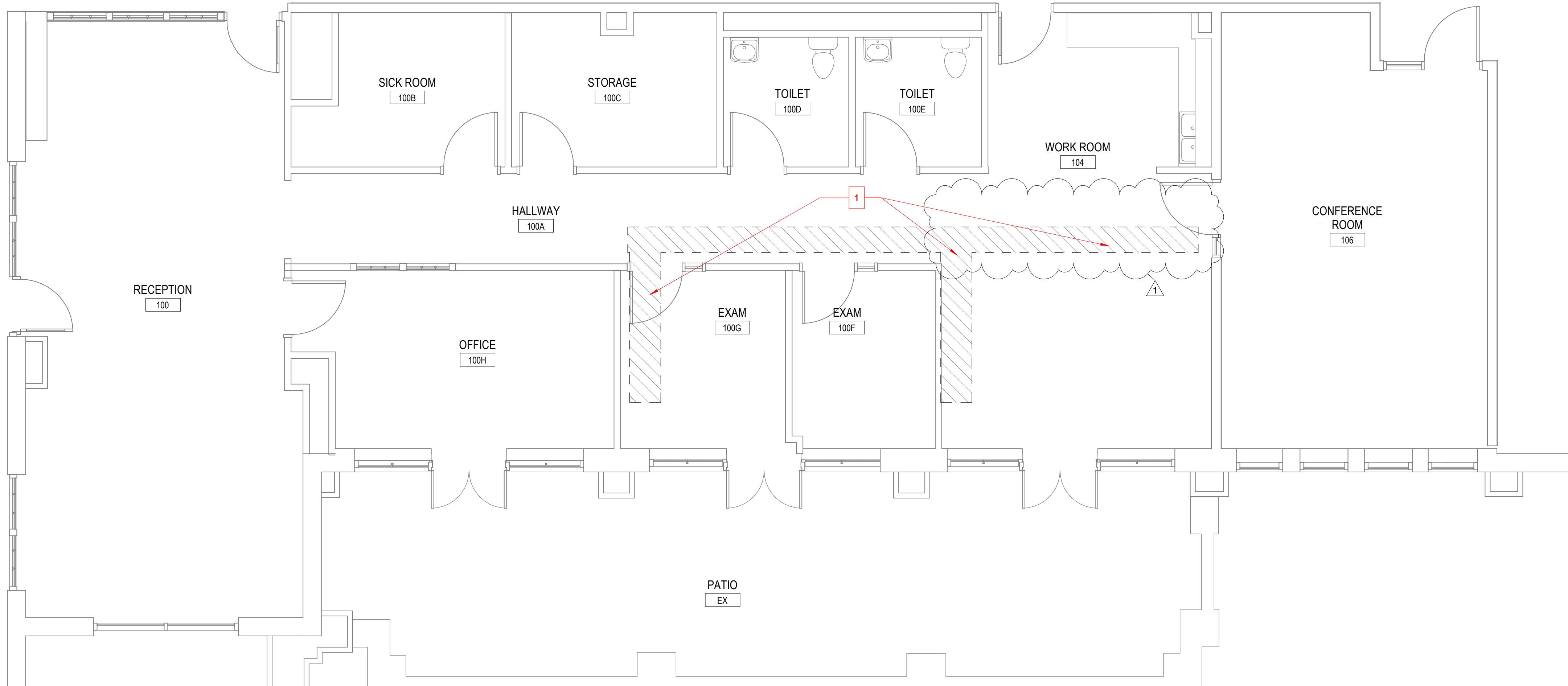
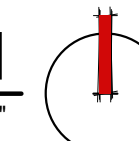
11. Prevailing wage determination – Public Act 10 of 2023
12. Include a \$10,000.00 (ten thousand dollars) allowance for Fire Barrier work.





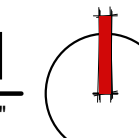
FIRST FLOOR PLAN

1/4" = 1'-0"



FIRST FLOOR DEMOLITION PLAN

1/4" = 1'-0"



**GENERAL NOTES**

- DO NOT SCALE DRAWINGS.
- FINISH FLOOR ELEVATION = 100'-0". REFER TO CIVIL DRAWINGS FOR SITE DATUM ELEVATION EQUIVALENT.
- EXISTING BUILDING CONDITIONS BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
- BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
- REFER TO CODE COMPLIANCE DRAWING(S) FOR LOCATIONS OF RATED ASSEMBLIES AND CODE SUMMARY.
- WALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, FACE OF STUDS, COLUMN CENTERLINE AS SHOWN OR EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE PERPENDICULAR AND PARALLEL, UNLESS NOTED OTHERWISE.
- REFER TO ALL DRAWINGS SHOWING NEW CONSTRUCTION AND COORDINATE DEMOLITION REQUIRED TO COMPLETE NEW WORK SHOWN.
- REFER TO DEMOLITION DRAWINGS AND OTHER DRAWINGS TO DETERMINE LOCATIONS THAT REQUIRE PATCHING DUE TO REMOVAL OF EXISTING ITEMS, INCLUDING MECHANICAL, PLUMBING AND ELECTRICAL ITEMS.
- PATCH ALL DISTURBED EXISTING SURFACES WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACE CONSTRUCTION.
- REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR SIZE AND LOCATION OF CHASES, WALL AND FLOOR OPENINGS AND RECESSES, ETC. COORDINATE WITH CONSTRUCTION MANAGER / GENERAL CONTRACTOR AND ALL AFFECTED TRADES.
- PROVIDE APPROVED SMOKE/FIRESTOPPING ASSEMBLIES AT ALL MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT PARTITIONS IDENTIFIED ON CODE COMPLIANCE DRAWINGS.

**INTERIOR WALL GENERAL NOTES**

- EXISTING WALL CONSTRUCTION    — NEW WALL CONSTRUCTION
- CONSTRUCT ALL WALLS TIGHT TO DECK ABOVE AND EXTEND INTO DECK FLUTES AND WEBS OF STEEL MEMBERS UNLESS OTHERWISE NOTED.
  - PROVIDE DEFLECTION TRACK AT THE TOP OF ALL INTERIOR NON-BEARING METAL STUD WALLS CAPABLE OF ACCOMMODATING ROOF/FLOOR DEFLECTION.
  - REFER TO CODE COMPLIANCE PLAN FOR RATED WALL LOCATIONS. FIRE RATED AND SMOKE RESISTANT ASSEMBLIES SHALL BE CONTINUOUS, WITH OTHER PARTITIONS ABUTTING THEM.
  - PROVIDE FIRESTOPPING/ SMOKE SEALANT AT ALL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT ASSEMBLIES, CORRIDORS, AND FLOORS WITH OCCUPIABLE SPACES ABOVE AND BELOW.
  - PERMANENTLY IDENTIFY FIRE RATED AND SMOKE RESISTANT PARTITIONS ON WALL ABOVE CEILINGS AT 30 FEET ON CENTER.
  - PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH ACOUSTICAL INSULATION.
  - PROVIDE 5/8" MOISTURE RESISTANT GYPSUM WALLBOARD AT ALL WALLS OF TOILET ROOMS, WALLS RECEIVING TILE, AND WALLS BEHIND AND ADJACENT TO SINKS.
  - PROVIDE 5/8" TILE BACKER AT ALL WALLS OF SHOWER ENCLOSURES.
  - REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCING AND GROUTING.
  - PROVIDE BULLNOSE CONCRETE MASONRY UNITS AT EXPOSED SILLS AND AT ALL INTERIOR EXPOSED VERTICAL CORNERS, INCLUDING WINDOW AND DOOR JAMBS.
  - ALL WALLS ARE 3 5/8" METAL FRAMING AT 16" O/C WITH 5/8" GYPSUM WALLBOARD EA SIDE ACOUSTICAL INSULATION, EXTEND TO UNDERSIDE OF DECK UNLESS NOTED OTHERWISE.

**SPECIALTY NOTES**

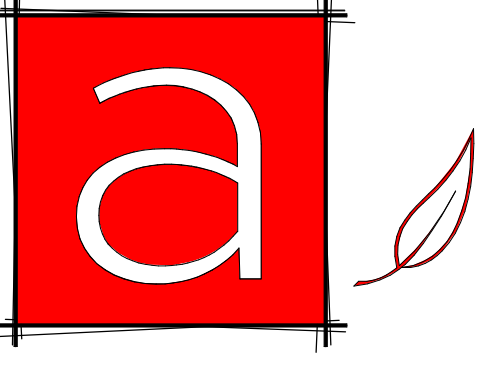
- A PROVIDE PHONE LINE

**GENERAL FINISH PLAN NOTES**

- FLOORING:
  - A ALL FLOORING MATERIALS SHALL MATCH EXISTING.
- BASE:
  - A ALL BASE SHALL MATCH EXISTING 4" HIGH RUBBER BASE (BLACK)
- WALLS:
  - A ALL FIRE EXTINGUISHER CABINETS, IN FINISH OTHER THAN BRUSHED ALUMINUM, SHALL BE PAINTED. COLOR TO MATCH ADJACENT WALL COLOR.
  - B ALL WALLS TO BE PAINTED. COLOR TBD.
- CASEWORK:
  - A SEE ARCHITECTURAL PLAN(S) AND DETAIL(S) FOR CASEWORK FINISH DESIGNATIONS. CONSULT DESIGNER AS NEEDED.
  - B CABINET INTERIOR TO BE WHITE UNLESS OTHERWISE SPECIFIED.
- DOOR AND DOOR / WINDOW FRAMES:
  - A ALL INTERIOR WOOD DOORS TO BE STAINED TO MATCH EXISTING

**DEMOLITION NOTES**

- EXISTING BUILDING CONDITION BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
  - BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
  - COORDINATE DEMOLITION WITH ALL CONTRACTORS WORKING IN AREAS BEING RENOVATED.
  - DURING DEMOLITION, PROTECT ALL ADJACENT CONSTRUCTION TO REMAIN.
  - ANY ASBESTOS CONTAINING MATERIALS THAT ARE ENCOUNTERED ARE TO BE REMOVED BY THE OWNER.
  - REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND COMMUNICATION DRAWINGS FOR ITEMS TO BE REMOVED NOT SHOWN HERE.
  - COORDINATE THE RETURN AND STORAGE OF ALL ITEMS DESIGNATED AS SALVAGE WITH OWNER.
  - PROVIDE TEMPORARY SHORING AND/OR STAGING OF THE DEMOLITION WORK.
  - MANY OF THE MASONRY WALLS OF THIS BUILDING ARE LOAD-BEARING. COORDINATE DEMOLITION OF ALL WALLS OR PORTIONS OF WALLS FOR NEW OPENINGS WITH STRUCTURAL DOCUMENTS AND EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR SHORING ALL STRUCTURE SUPPORTED BY BEARING WALLS PRIOR TO REMOVAL.
- 1 SAW CUT AND REMOVE FLOOR OR PORTION OF EXISTING FLOOR SLAB AS SHOWN OR DIMENSIONED ON FLOOR PLAN. EXCAVATE, FILL & COMPACT SOIL AS REQUIRED FOR NEW SLAB. COORDINATE WITH MECHANICAL, ELECTRICAL, DEMOLITION NOTES FOR RELATED ITEMS & LOCATIONS. INSTALL NEW SLAB TO MATCH EXIST. ELEVATION.
- 2 SEE MECHANICAL DEMOLITION NOTES FOR REMOVAL OF EXIST. PLUMBING/MECHANICAL i.e. LAVATORY SINKS, WATER CLOSETS, URINALS, FIN TUBE, MECH. DUCTWORK, UNIT VENTS, ETC.



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HARRISON PARK ACADEMY RENOVATIONS - NEW HEALTH CLINIC  
**GRAND RAPIDS PUBLIC SCHOOLS**  
1440 DAVIS AVE NW, GRAND RAPIDS MI 49504

PROJECT NO. 1322

ISSUANCES

27 SEP 2024	BIDS AND PERMITS
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REVISIONS

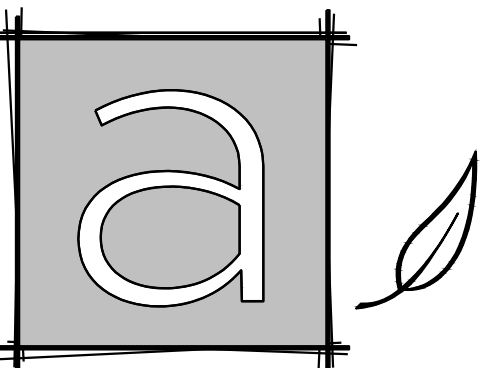
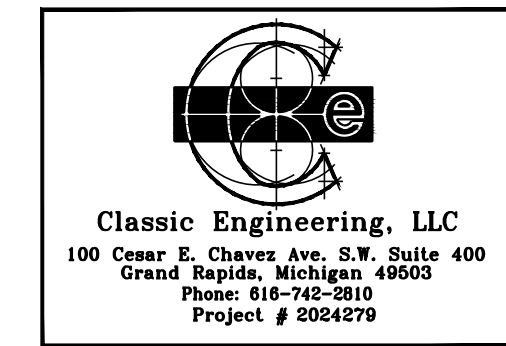
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**FIRST FLOOR PLAN AND DEMOLITION PLAN**

SCALE: As indicated

**A-1**

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**FLOOR PLAN -  
 PLUMBING**

SCALE: 1/4"=1'-0"

**P-1**

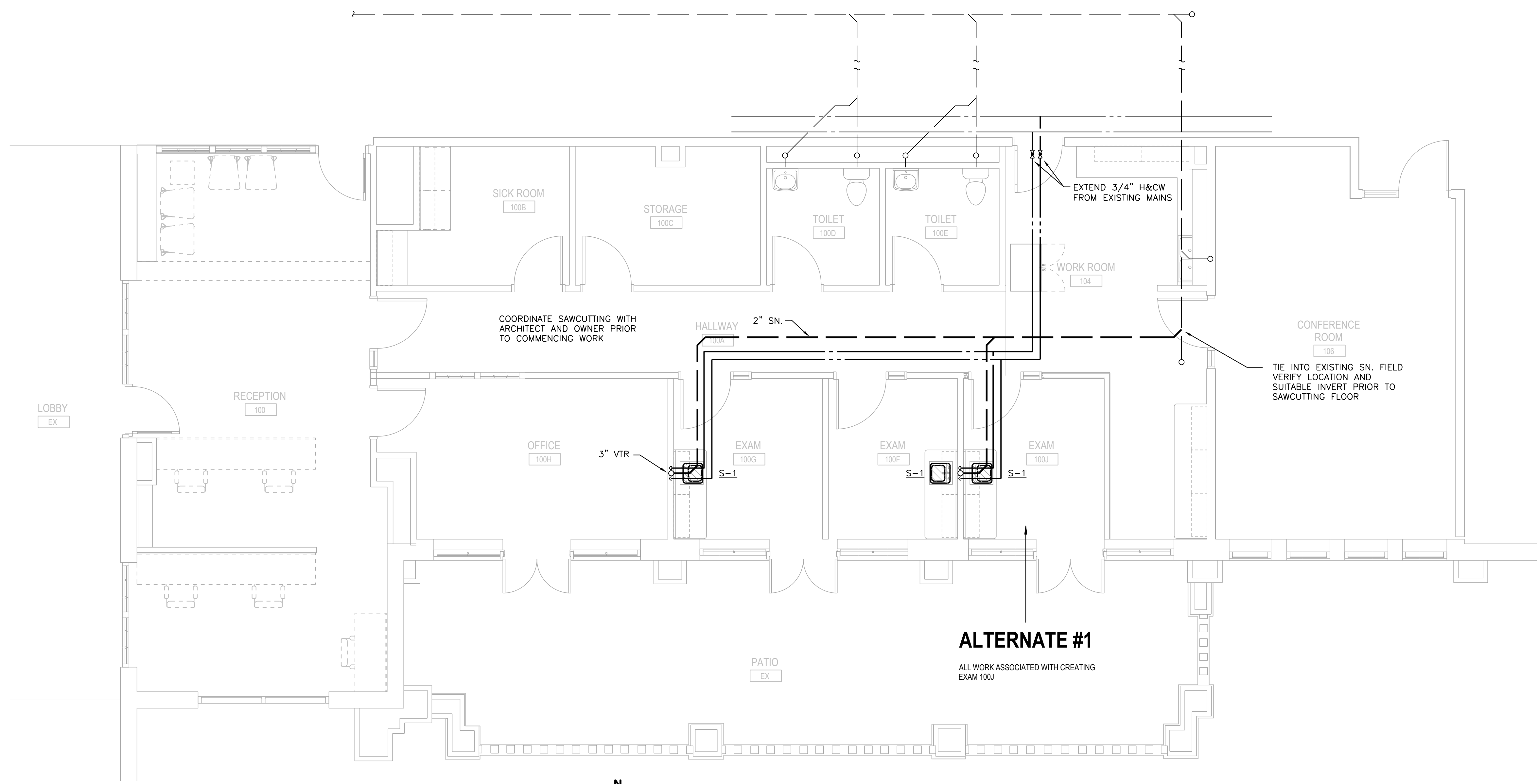
**PLUMBING FIXTURE LIST**

S=1 COUNTERTOP TYPE, SEAMLESS STAINLESS STEEL, 18 GAUGE, INTEGRAL MOUNTING RIM, ELKAY LR1517 WITH 12"x12"x7 1/2" BOWL, FURNISHED WITH 2 HANDLE FAUCET WITH BLADE HANDLES AND AERATOR, 3/8" LOOSE KEY ANGLE STOPS, 3 1/2" BASKET STRAINER LK-35, 1 1/2" TAILPIECE AND 1 1/2" P-TRAP.

FIXTURE	MINIMUM SIZE CONNECTION				REMARKS
	SAN.	C.W.	H.W.	VENT	
SINK	1 1/2"	1/2"	1/2"	1 1/2"	

- IN CONCEALED LOCATIONS WHERE PIPING IS INSTALLED THROUGH STUDS, JOISTS, OR RAFTERS, PROVIDE A 1/16" THICK STEEL PROTECTIVE SHIELD TO PROTECT THE PIPE FROM PUNCTURES.
- PROVIDE WATER HAMMER ARRESTERS WHERE QUICK CLOSING VALVES ARE USED, OR AS REQUIRED. ARRESTERS SHALL CONFORM TO ASSE 1010 AND ACCESS SHALL BE PROVIDED TO EACH ARRESTER.
- ALL PLUMBING VENTS THROUGH THE ROOF TO BE INSTALLED A MINIMUM OF 10'-0" AWAY FROM ALL FRESH AIR INTAKE OPENINGS.
- DO NOT INSTALL ANY PIPING AROUND ELECTRICAL EQUIPMENT TO INSURE ALL CODE REQUIRED CLEARANCES. SEE ELECTRICAL PLANS FOR THESE LOCATIONS.
- REFER TO MINIMUM SIZE CONNECTION SCHEDULE FOR ALL PLUMBING FIXTURES BRANCH PIPING SIZES.
- PROVIDE IDENTIFICATION ON ALL SHUT-OFF VALVES SERVING WALL HYDRANTS AND HOSE BIBBS. IDENTIFY ALL OTHER VALVES THAT ARE NOT ADJACENT TO THE FIXTURE THEY SERVE.
- PROVIDE A TEMPERING VALVE AT ALL ACCESSIBLE HANDWASHING FIXTURES THAT CONFORMS TO ASSE 1070.
- ALL DOMESTIC PIPING TO BE TYPE 'L' COPPER, INSULATED WITH FOAM PER ENERGY CODE.
- ALL SANITARY PIPING TO BE SCHEDULE 40 PVC.
- VENTING SHALL BE INSTALLED IN ACCORDANCE WITH CODE

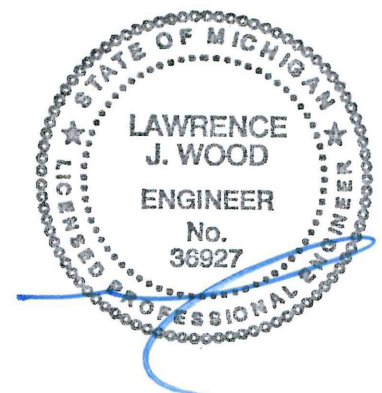
**PLUMBING NOTES**



**ALTERNATE #1**

ALL WORK ASSOCIATED WITH CREATING EXAM 100J

**FLOOR PLAN - PLUMBING**  
 SCALE: 1/4" = 1'-0"

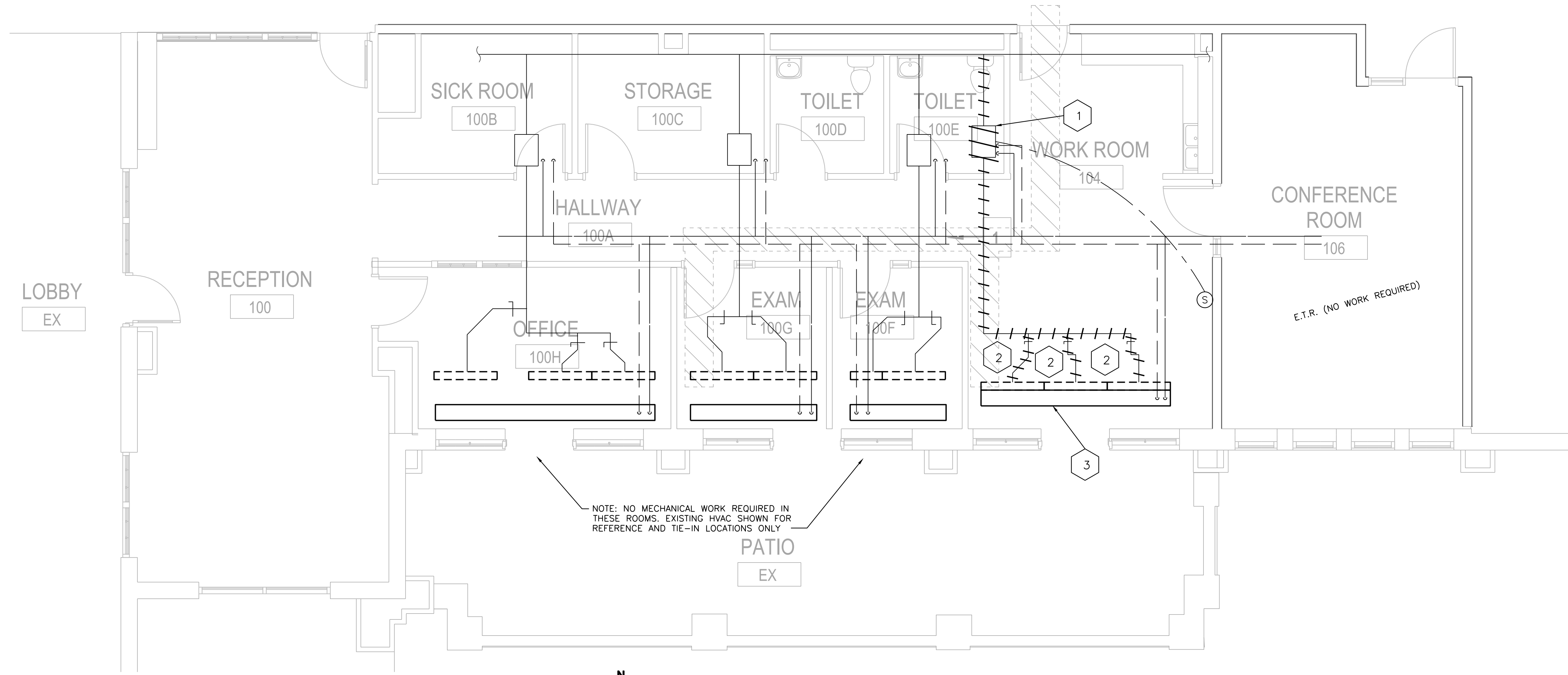


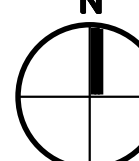
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**ALTERNATE #1 HVAC DEMO KEY NOTES:**

- 1 EXISTING VAV TERMINAL UNIT TO BE REMOVED AND TURNED OVER TO OWNER. REMOVE AND DISPOSE OF SUPPLY DUCTWORK, CAP HEATING PIPING AND MAINTAIN FOR CONNECTION TO NEW VAV TERMINAL UNIT.
- 2 REMOVE EXISTING SLOT DIFFUSERS AND RETAIN FOR RELOCATION INTO NEW CEILING GRID.
- 3 REMOVE AND DISPOSE OF EXISTING RADIANT CEILING PANEL. MAINTAIN HEATING SUPPLY & RETURN PIPE FOR CONNECTION TO NEW RADIANT CEILING PANELS.




**FLOOR PLAN - MECHANICAL DEMOLITION**
  
 SCALE: 1/4" = 1'-0"

**PROJECT NO.** 1322

**ISSUANCES**

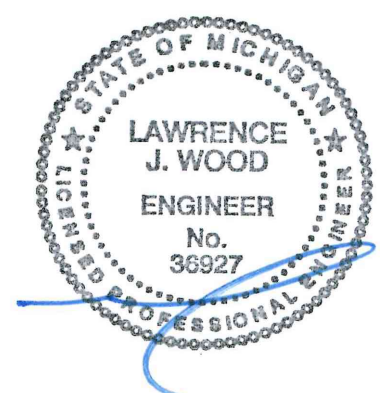
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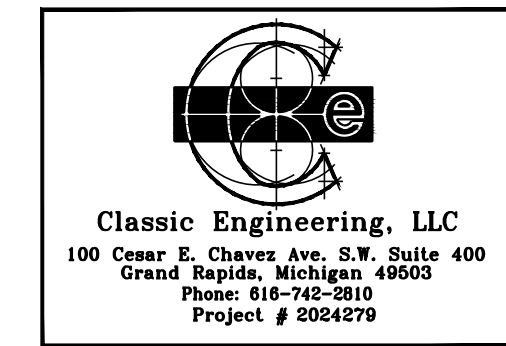
**FLOOR PLAN -  
 MECHANICAL  
 DEMOLITION**

**SCALE:**  
 1/4"=1'-0"

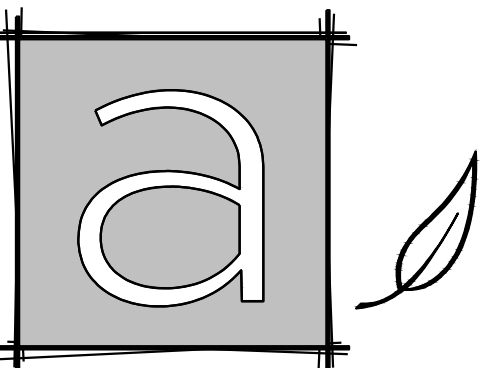


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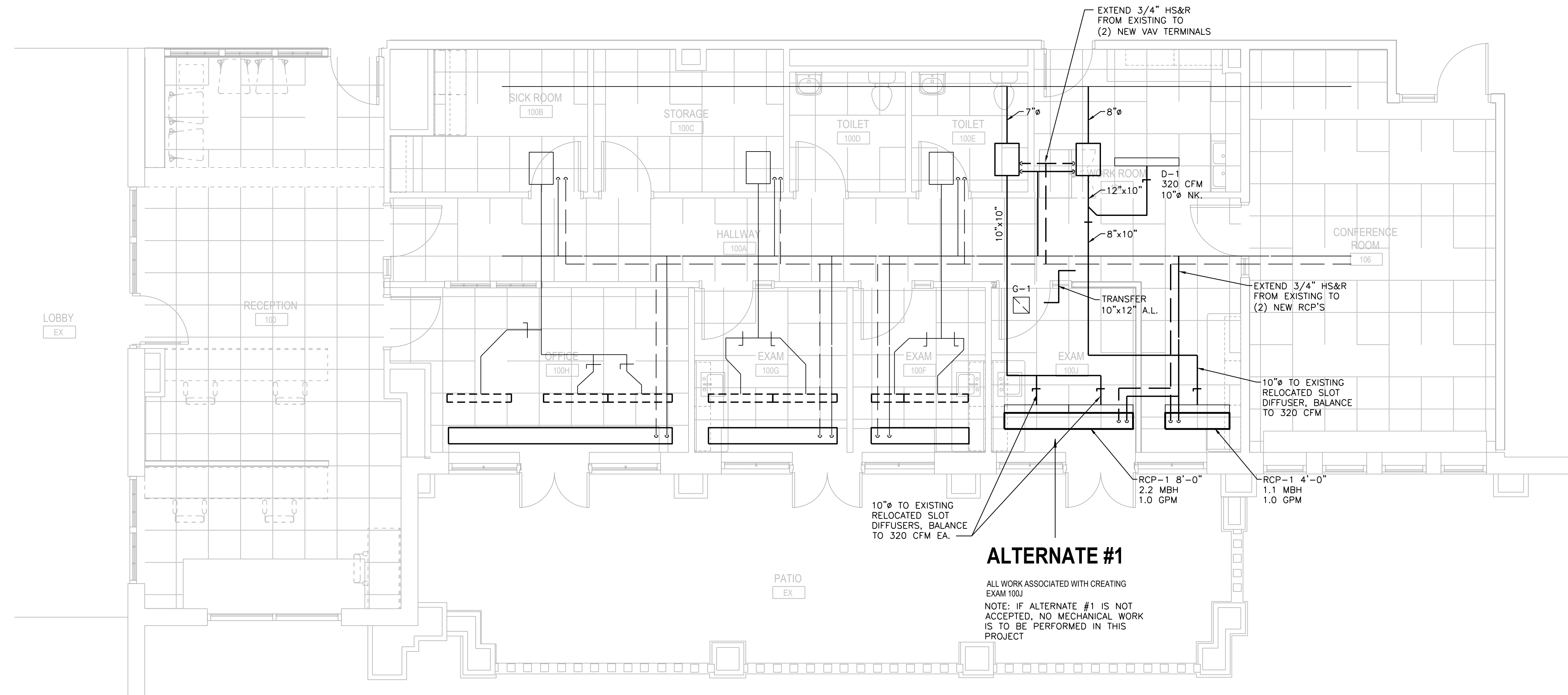
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**ALTERNATE #1**  
 ALL WORK ASSOCIATED WITH CREATING EXAM 100J  
 NOTE: IF ALTERNATE #1 IS NOT ACCEPTED, NO MECHANICAL WORK IS TO BE PERFORMED IN THIS PROJECT

**FLOOR PLAN - MECHANICAL**  
 SCALE: 1/4" = 1'-0"



**FLOOR PLAN -  
 MECHANICAL**

SCALE: 1/4"=1'-0"

**M-1**

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**GENERAL PROVISIONS – SCOPE**

All applicable provisions of the Proposal Form, Instructions to Bidders, General Conditions, Special Conditions and Alternates shall apply to this work. Work included in Division 15 is the furnishing and installing of first class working systems, tested and ready for operation complete with labor, materials, apparatus, transportation, tools and appliances required for the installation in conformity with the Drawings, the Specifications and the other Contract Documents, incorporating the best standards of workmanship. All materials shall be new and the best of their kind and all labor shall be performed by skilled mechanics under the direction of a competent Superintendent.

**DRAWING AND SPECIFICATIONS**

This Contractor shall examine and consult the Drawings and Specifications of the other trades to better familiarize himself with the character of construction and include in his bid all work of his trade shown or reasonably inferred. He shall consult the Drawings and Specifications of the other trades in installing his work.

This Contractor shall be thoroughly familiar with all specified products relating to his work and shall submit written objections prior to bid if he objects to the proposed use of the product.

Should any structural difficulties prevent the installation of the piping, ductwork, fixtures, or equipment at the points shown on the Drawings, the necessary deviations therein, as determined by the Architect/Engineer, will be permitted and shall be made without additional cost. This Contractor shall work with the other contractors and arrange his work so as not to interfere with the work of other contractors.

Mechanical Drawings are diagrammatic with no attempt made to show every ell, tee, fitting, etc. All ducts and pipes shall be run in spaces indicated as job conditions warrant, arranged for most convenient access for servicing, with due consideration given to joints and to others contractor's work.

**GUARANTEE AND WARRANTY**

General - This Contractor shall comply with all requirements of the guarantees.

Equipment Performance - This guarantee shall be extended to include capacity and integrated performance of component parts of various systems in strict accord with true intent and purpose of these Specifications. Conduct such tests as herein specified or as may be required to demonstrate capacity and performance ability of various systems to maintain specified conditions.

Factory Warranty - The entire Mechanical System, including all equipment, shall carry a one-year Factory Warranty from date of substantial completion, regardless of start-up date of equipment.

**CODES, ORDINANCES, INSPECTIONS AND PERMITS**

General - Work is to be executed and inspected in accordance with local or state codes, laws, ordinances, rules and regulations applicable to particular class of work, and any fees in connection therewith are to be paid by Mechanical Contractor.

Inspections - Mechanical Contractor is to arrange with the city, or state, if city has no ordinance covering his work, for complete inspection, paying all charges pertaining hereto. He shall give proper authority all requisite notice relating to work under his charge, shall afford all authorized inspectors every facility for inspection and shall be responsible for all violations of law.

**COMPLETION OF WORK**

Provide O & M manuals to the owner at the completion of the project.

As-Built Drawings - At completion of this project, Contractor shall provide two sets of "Red Lined" blue line drawings showing all work installed by him. These drawings shall incorporate all changes made in course of project so as to enable Owner to properly maintain, operate and repair both exposed and concealed work.

**INSULATION – SCOPE**

Work required under this heading includes furnishing of labor, material, equipment, fees and services for and reasonably incidental to proper completion of all insulation work herein specified, accepting only work or materials specified or noted as being furnished and/or installed by Others.

**GENERAL**

Piping, ductwork or equipment shall be tested and approved for tightness prior to insulating. All piping and ducts shall be dry when covered.

All insulation both exposed and concealed, hot and cold, unless otherwise noted, shall be finished with an all service jacket such as Owens-Corning Fiberglas 25 ASJ/SSL. Finish on fittings to match jacket of adjacent pipe. The intent is to provide a completely finished, fully sized, vapor-barrier white jacket ready for painting. Any polyolefin foam, such as Imcoa, with a moisture vapor transmission rate of zero, will not require vapor barrier jacketing.

All insulating products shall be fire resistant in accordance with NFPA-255 and UL-723. Insulation shall have ratings not exceeding flame spread of 25 and smoke developed of 50 per ASTM E-84. Insulation cartons shall indicate rating of insulation.

**DUCT INSULATION**

Insulate all concealed ducts with 1 1/2 in. thick, 3/4 pound per cu. ft. density, inorganic minimum of 3 in. wide foil reinforced kraft tape. On longitudinal joints, the overlap shall be secured using fibrous glass, faced with reinforced foil vapor barrier facing, similar to Owens Corning Fiberglas ED150, FRK25 pink duct wrap. Insulation shall be wrapped tightly on the ductwork with all circumferential joints butted and longitudinal joints overlapped a minimum of 2 in. Adhere insulation to metal with 4 in. strips of insulation bonding adhesive at 8 in. O.C. Additionally, secure insulation to the bottom of rectangular ductwork over 24 in. wide with mechanical fasteners at not more than 18 in. O.C. On circumferential joints, the 2 in. flange of the facing shall be secured using 9/16 in. flare-door staples applied 6 in. O.C. and taped with minimum of 3 in. wide foil reinforced kraft tape. On longitudinal joints, the overlap shall be secured using 9/16 in. flare-door staples applied 6 in. O.C. and taped with minimum 3 in. wide foil reinforced kraft tape. All pin penetrations or punctures in facing shall also be taped.

**AIR DISTRIBUTION – SCOPE**

Work required under this heading includes furnishing of labor, materials, equipment, fees and services for, and reasonably incidental to, proper completion of all air distribution work herein specified, excepting only work or materials specified or noted as being furnished and/or installed by Others.

**LOW VELOCITY DUCTWORK**

Make every duct bend with centerline radius not less than its width. Make every change in size or shape of duct with taper not exceeding 20 deg. Unless otherwise indicated, provide throats at all branches. Throat velocity shall be same as main duct velocity. Construct square throat elbows where indicated or required with internal double wall turning vanes.

Joints in all ductwork shall form a smooth interior surface and be practically airtight. Cross break all ducts to prevent drumming and billowing.

Support ductwork on galvanized iron hangers not less than 1 in. x 16 gauge spaced not more than 8 ft. on center. For ducts 61 in. wide and over, furnish 1 3/8 in. x 12 gauge hangers.

Furnish dampers indicated or required to balance distribution of air through various parts of duct systems to obtain or approved equal. Sealer shall be U.L. Classified for flame spread not over 15 and smoke developed not over 20. Where ducts are exposed, the joints shall be finished with duct tape to cover all of the sealer.

Seal all supply, return and exhaust duct joints with high pressure duct sealer equal to Hardcast, United Duct Sealer or approved equal. Sealer shall be U.L. Classified for flame spread not over 15 and smoke developed not over 20. Where ducts are exposed, the joints shall be finished with duct tape to cover all of the sealer.

All ductwork, unless otherwise specified, to be constructed as recommended in current issue of ASHRAE Guide or SMACNA using ASTM-A93 galvanized steel that will double seam without fracture, except where specifically indicated otherwise.

**BALANCING DAMPERS**

General - In all ductwork systems, furnish all dampers necessary for proper control and balancing of Furnish dampers for all branches from trunk ducts as indicated. Do not use dampers provided in diffuser or outlet for balancing system. These are to be used only after all balancing is completed to control draft and ventilation in individual spaces.

VARIABLE AIR VOLUME BOX SCHEDULE												
MARK	MODEL	SIZE	CFM SET POINTS		UNIT MIN. S.P.	NC AT MIN S.P.	REHEAT COIL DATA (AT MIN. CFM)					REMARKS
			MIN.	MAX.			GPM	EWT	LAT	WPD	MBH	
TU-1117	DESV	7"	230	460	0.20	30	1.0	180'	95	1.0	6.8	①
TU-1118	DESV	8"	250	640	0.28	30	1.0	180'	95	1.0	8.1	①

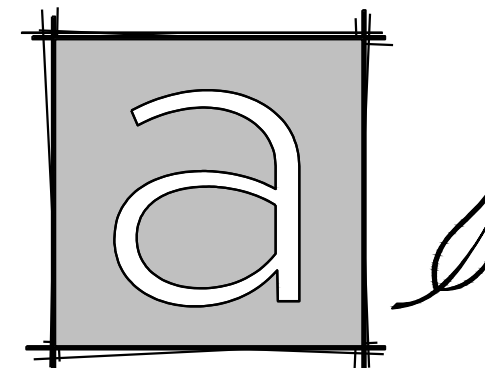
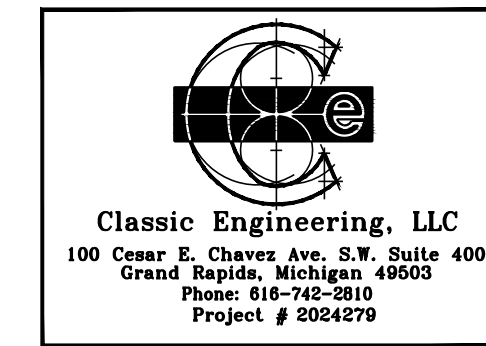
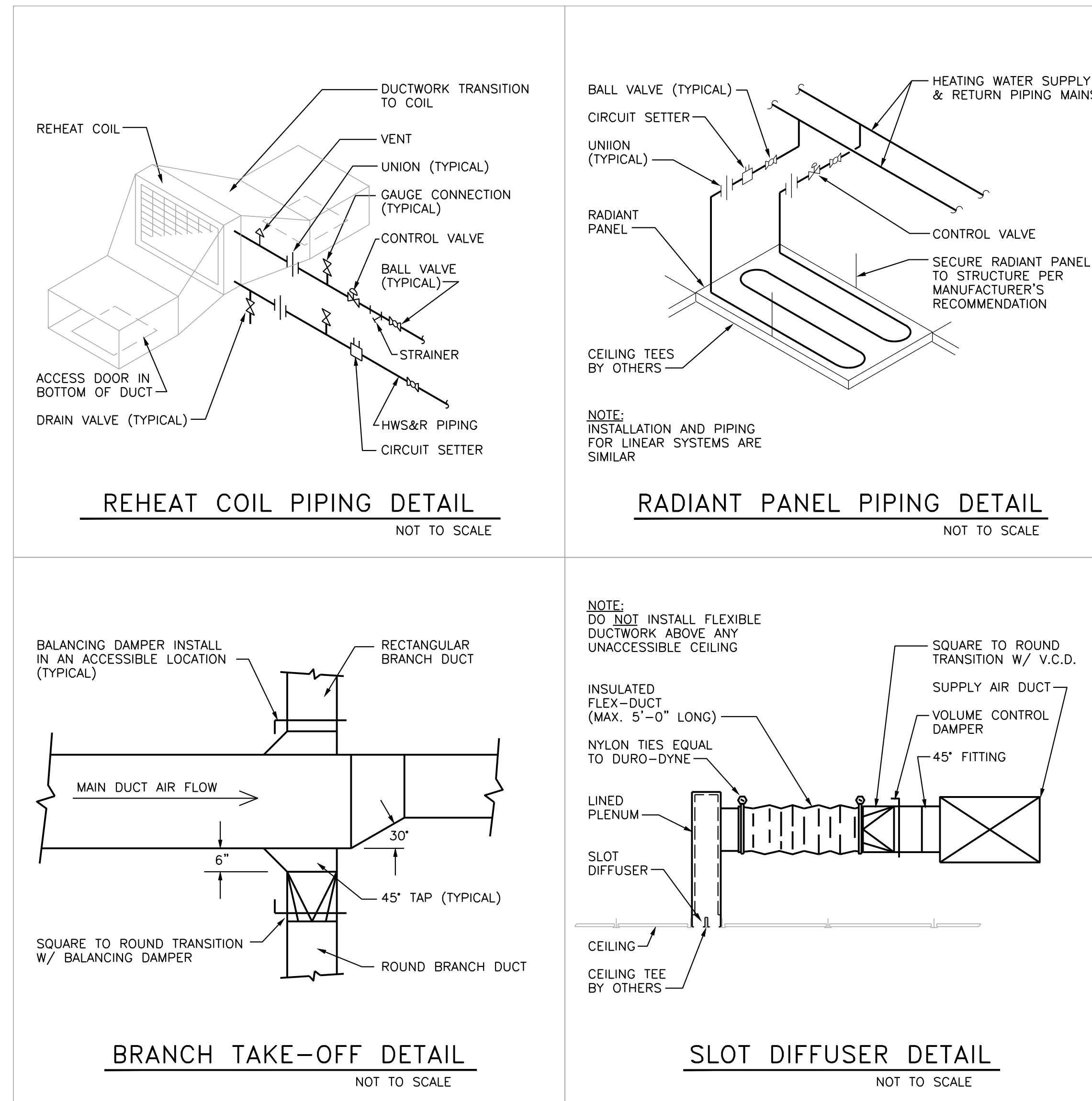
① BASED ON TITUS

RADIANT CEILING PANEL SCHEDULE		
MARK	MODEL	REMARKS
RCP-1	STERLING RADIANT CEILING PANEL, 12" WIDE X LENGTH SHOWN ON DRAWINGS. 4 PASS, STANDARD WHITE FINISH WITH FACTORY INSTALLED RETURN ELBOWS.	①

① BASED ON STERLING

GRILLE, REGISTER AND DIFFUSER SCHEDULE					
MARK	SERVICE	MODEL	VOLUME DAMPER	FINISH	REMARKS
D-1	CEILING SLOT DIFFUSER, 4', 3 SLOT	TBD375	----	WHITE	①
G-1	CEILING RETURN GRILLE	80 - 12x12	----	WHITE	①

① BASED ON PRICE



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PROJECT NO. 1322

ISSUANCES

27 SEP 2024	BIDS AND PERMITS
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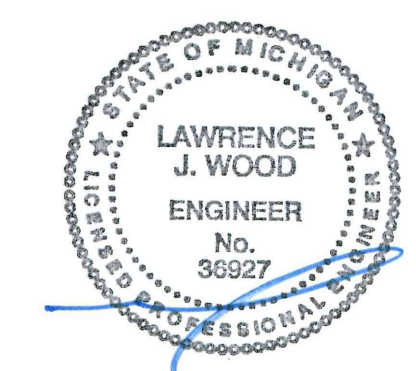
REVISIONS

NO.	DATE	DESCRIPTION
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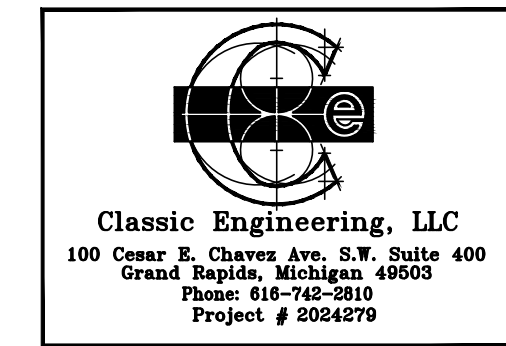
**MECHANICAL DETAILS & SCHEDULES**

SCALE: 1/4"=1'-0"

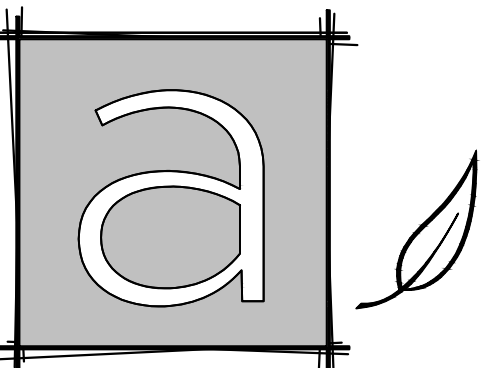
**M-2**







Classic Engineering, LLC  
 100 Cedar E. Charles Ave. S.W. Suite 400  
 Grand Rapids, Michigan 49503  
 Phone: 616-742-2810  
 Project # 2024279



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LIGHT FIXTURE LEGEND								
FIXTURE TYPE	DESCRIPTION	MANU.	CATALOG PART#	FINISH	VOLTAGE	LAMPS	Wattage	REMARKS
UC	UNDER CABINET LIGHT 36"	JUNO METALUX COLUMBIA	UCES B38IN SWW8 90CRI WH M6	WHITE	120	LED 3000K 90CRI	16.4W	
E1	EXIT SIGN COMBO	LITHONIA ISOLITE WILLIAMS DUAL LITE	LHQM LED R M6	WHITE	NA	LED	1	MOUNT AT 7'-6" AFF
E2	EXIT SIGN	LITHONIA ISOLITE WILLIAMS DUAL LITE	LHQM LED R HO M6	WHITE	NA	LED	1	MOUNT AT 7'-6" AFF

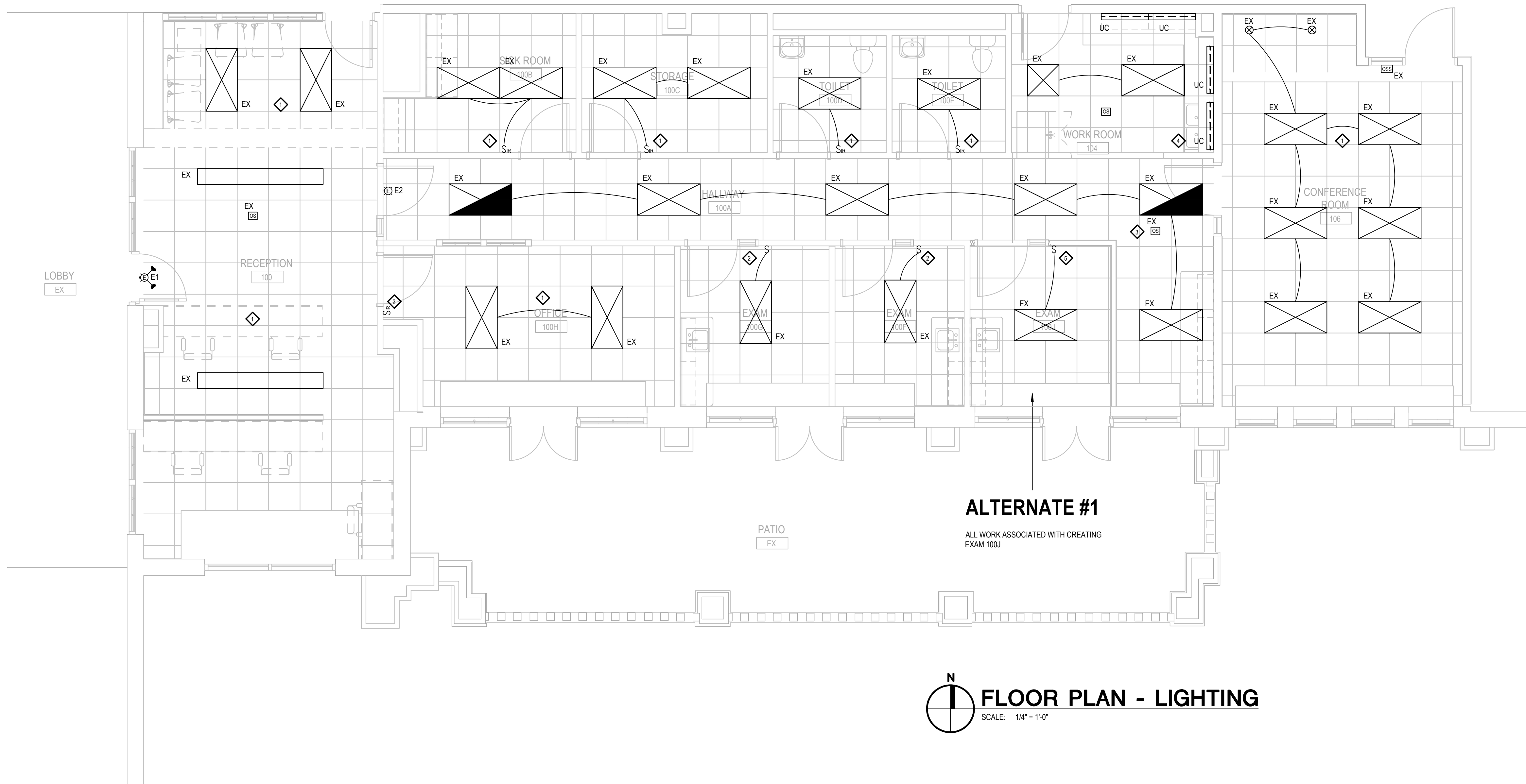
GENERAL LIGHT FIXTURE SCHEDULE NOTES:

**GENERAL LIGHTING NOTES:**

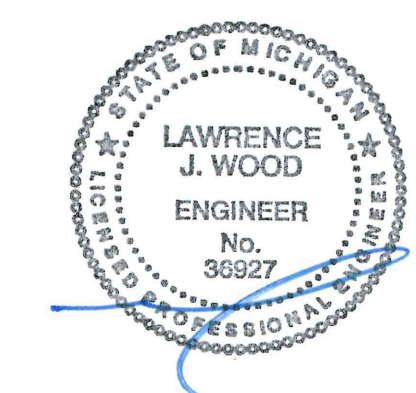
- CONNECT EMERGENCY LIGHTING TO CIRCUIT FEEDING GENERAL LIGHTING IN THAT AREA.
- EXIT SIGNS TO BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT OR EMERGENCY LIGHTING CIRCUIT FEEDING THAT AREA.
- LIGHTING CONTROL SHALL COMPLY WITH 2015 MICHIGAN ENERGY CODE WHERE APPLICABLE.

**LIGHTING KEY NOTES:**

- ALL LIGHTING AND SWITCHING IS EXISTING AND TO REMAIN, UNLESS OTHERWISE NOTED.
- NEW SWITCH. CONNECT TO EXISTING CIRCUIT IN AREA.
- RELOCATE EXISTING OCCUPANCY SENSOR. ALTERNATE #1.
- PROVIDE NEW UNDER CABINET LIGHTS. CONNECT TO EXISTING LIGHTING CIRCUIT IN ROOM.
- NEW SWITCH. ALTERNATE #1.



**FLOOR PLAN - LIGHTING**  
 SCALE: 1/4" = 1'-0"



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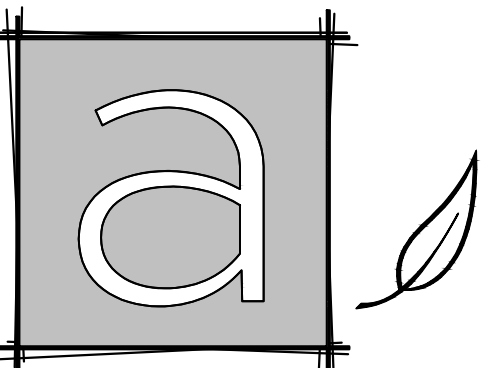
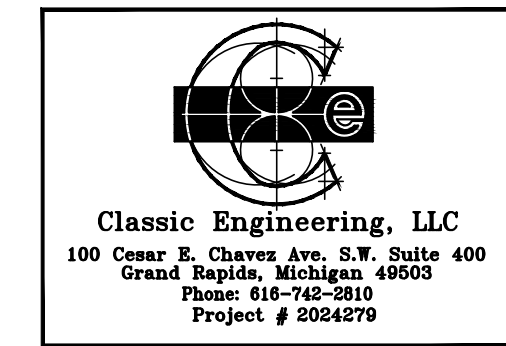
**FIRST FLOOR PLAN -  
 LIGHTING**

SCALE: 1/4" = 1'-0"

**EL-1**

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**FIRST FLOOR PLAN -  
POWER**

SCALE : 1/4"=1'-0"

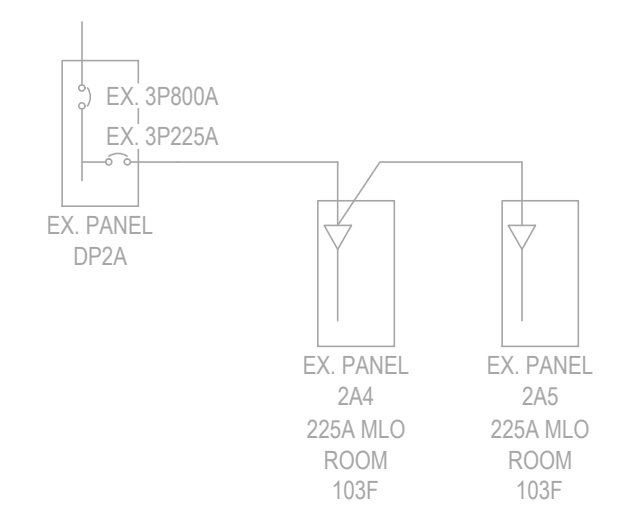
**EP-1**

**GENERAL POWER NOTES:**

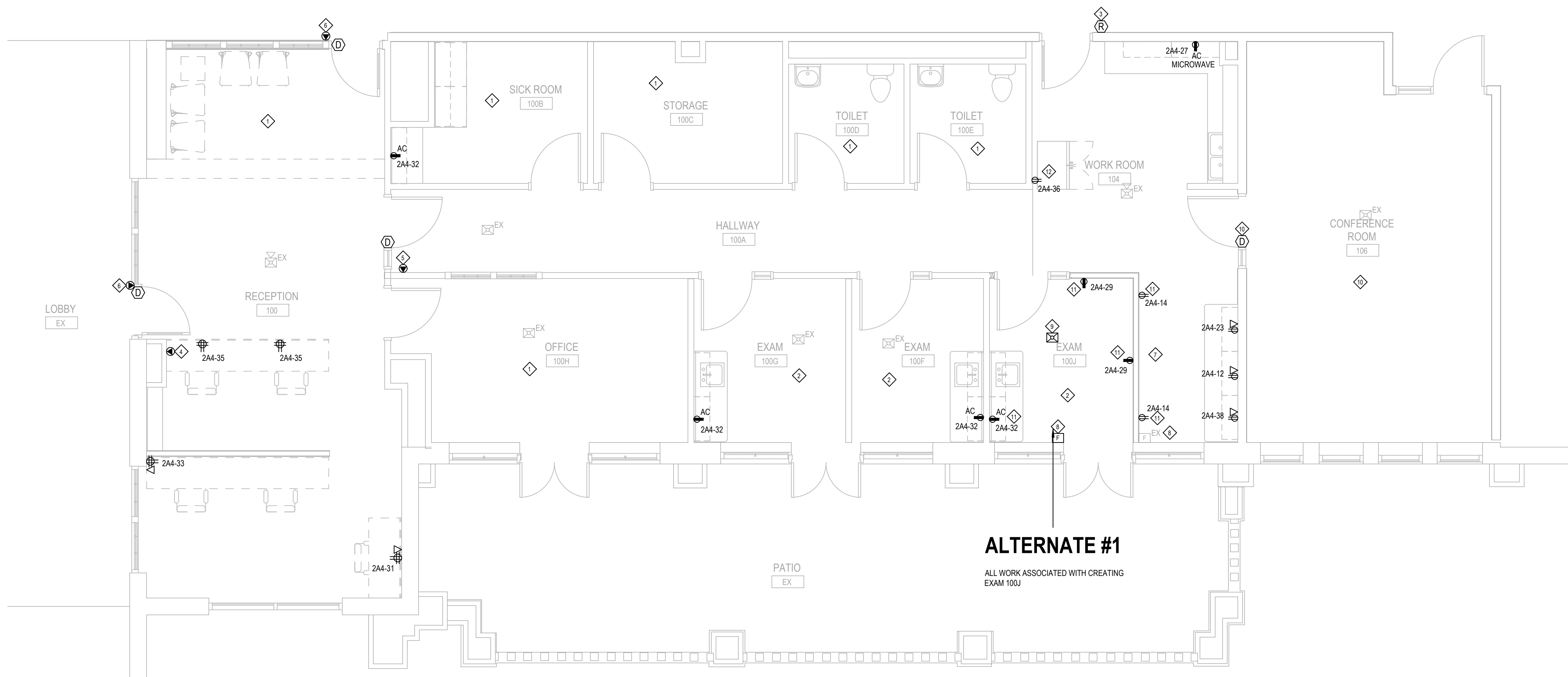
- EXISTING ELECTRIC ROOM NOT SHOWN. LOCATION IS DIRECTLY ACROSS THE CORRIDOR FROM RECEPTION 100. PANEL 2A4 IS LOCATED IN THIS ROOM.
- FIELD VERIFY EXISTING CIRCUITS IN PANEL 2A4 ARE AVAILABLE, PROVIDE CIRCUIT BREAKERS IF NECESSARY.

**POWER KEYNOTES:**

- ◇ NO WORK IN THIS AREA.
- ◇ EXAM AND TREATMENT ROOMS SHALL HAVE HOSPITAL GRADE TAMPER-RESISTANT GFI WIRING DEVICES PER NEC 2023 517.18 AND 517.19.
- ◇ CARD ACCESS, ROUGH-IN AND 120V POWER.
- ◇ REMOTE ACCESS BUTTON TO ALLOW ENTRY.
- ◇ DOOR RELEASE TO BE CONTROLLED BY REMOTE ENTRY BUTTON. COORDINATE WITH SCHOOL PERSONNEL.
- ◇ DOOR BUZZER.
- ◇ REUSE EXISTING CIRCUIT FOR NEW DEVICES ON NEW WALL. ALTERNATE #1.
- ◇ RELOCATE EXISTING FIRE PULL STATION TO MAKE ROOM FOR NEW WALL. NEW LOCATION AT DOOR IN 100J. ALTERNATE #1.
- ◇ NEW FIRE ALARM STROBE, MATCH AND TIE INTO EXISTING FIRE ALARM SYSTEM. ALTERNATE #1.
- ◇ ONLY WORK IN THIS AREA IS DOOR CONTROL.
- ◇ NEW WIRING DEVICES. ALTERNATE #1.
- ◇ PROVIDE GFCI 20A 1P CIRCUIT BREAKER.



**PARTIAL EXISTING 120/208V 3Ø4W ONE LINE**  
NOT TO SCALE

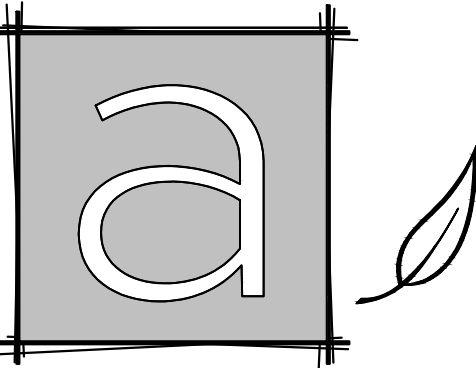


**FLOOR PLAN - POWER**  
SCALE: 1/4" = 1'-0"



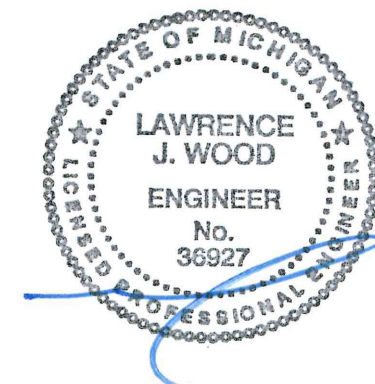
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PROJECT NO.		1322
ISSUANCES		
27 SEP 2024	BIDS AND PERMITS	

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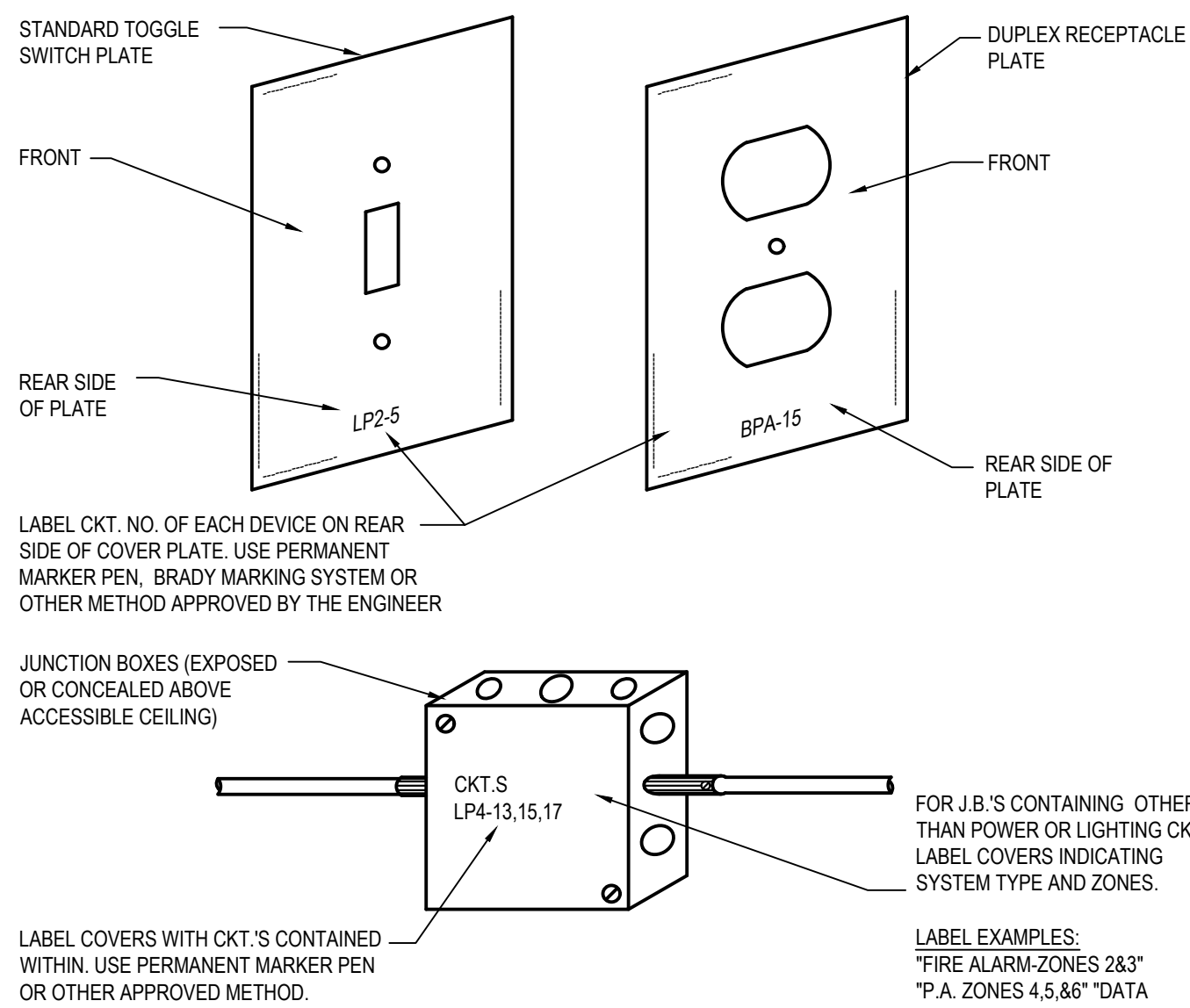


SYMBOL	DESCRIPTION	MTG. HT. TO ⌀
S S3	SINGLE POLE OR 3WAY SWITCH-SPECIFICATION GRADE	46"
S4	FOUR WAY SWITCH-SPEC. GRADE	46"
SK	KEY OPERATED SWITCH-SPEC. GRADE	46"
SD	DIMMER SWITCH	46"
SR	IR SWITCH	46"
SRD	IR SWITCH DIMMABLE	46"
SP	SWITCH WITH PILOT LIGHT	46"
SM	MANUAL MOTOR STARTER SWITCH	46"
OS	OCCUPANCY SENSOR	---
PC	PHOTO CELL	---
CS	CONTROL STATION	46"
DS	DAYLIGHT SENSOR	---
WC	SPLIT WIRED RECEPTACLE C - DENOTES CONTROLLED VIA RELAY OR OCC SENSOR	18"
WR	WATER RESISTANT GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHERPROOF WHILE IN USE COVER	18"
WR	DUPLIX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL= CEILING MOUNTED	18"
WR	(2) DUPLIX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL= CEILING MOUNTED	18"
WR	SPECIAL SINGLE RECEPTACLE	18"
WR	SPECIAL OUTLET-CHARACTERISTICS AS NOTED ON PLANS	AS NOTED
WR	DATA OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER. 1-1/4" C. UP WALL TO CLG. SPACE CIRCLE AROUND SYMBOL= CEILING MOUNTED	18"
WR	TV OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER. 1-1/4" C. UP WALL TO CLG. SPACE CIRCLE AROUND SYMBOL= CEILING MOUNTED	18"
WR	TELEPHONE OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER. 1-1/4" C. UP WALL TO CLG. SPACE	18"
WR	TELEPHONE/DATA OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER. 1-1/4" C. UP WALL TO CLG. SPACE	18"
WR	WIRELESS ROUTER	---
WR	FLOOR BOX 2 RECEPT. 2 DATA THOMAS & BETTS-# 665-SC 1-1/4" C. TO FLOORBOX FOR DATA	---
WR	FLOOR BOX 1 RECEPT. 1 DATA THOMAS & BETTS-# 664-SC 1-1/4" C. TO FLOORBOX FOR DATA	---
WR	JUNCTION BOX - HUBBELL NSAV6M WITH RECEPTACLE KIT HUBBELL NSOKP. PROVIDE CONNECTOR PLATE FOR AV	AS NOTED
WR	JUNCTION BOX 4" SQ. BOX W/ 2 GANG RAISED COVER 1" C. UP WALL TO CLG. SPACE UNLESS OTHERWISE NOTED POWER POLE - SEE DRAWING FOR POWER - POWER/DATA SPECIFICATIONS	AS NOTED
WR	ELECTRIC UTILITY METER	---
WR	FUSED DISCONNECT SWITCH- FDS-HEAVY DUTY	46"
WR	NON-FUSED DISCONNECT SWITCH- NFD-HEAVY DUTY	46"
WR	SW. AND PLUG/USE HOLDER- BUSSMANN "SSU" & FUSESTAT FUSE	AT EQUIP.
WR	MAGNETIC MOTOR STARTER-MS	46"
WR	COMBINATION MAG. STARTER/ FUSED DISC. SWITCH - CS/FDS	46"
WR	COMBINATION MAG. STARTER/NON-FUSED DISC. SWITCH - CS/NFDS	46"
WR	VARIABLE FREQUENCY DRIVE	---
WR	SINGLE PHASE ELECTRIC MOTOR	---
WR	THREE PHASE ELECTRIC MOTOR	---
WR	SURFACE OR FLUSH MTD. BRANCH CIRCUIT PANELBOARD	72" TO TOP
WR	TRANSFORMER	---
WR	PUSH BUTTON	46"
WR	THERMOSTAT. E.C. TO ROUGH-IN SINGLE GANG BOX AND 1/2" C. TO ACCESSIBLE CEILING SPACE	46"
WR	HUMIDISTAT. E.C. TO ROUGH-IN SINGLE GANG BOX AND 1/2" C. TO ACCESSIBLE CEILING SPACE	46"
WR	RECESSED DOWNLIGHT LUMINAIRE	---
WR	RECESSED WALLWASH LUMINAIRE	---
WR	SURFACE LUMINAIRE	---
WR	PENDANT LUMINAIRE	---
WR	WALL MOUNTED LUMINAIRE	---
WR	SITE LIGHTING LUMINAIRE	---
WR	NIGHT LIGHT	---
WR	STRIP LUMINAIRE	---
WR	LED ACCENT/UNDER CABINET LUMINAIRE	---
WR	RECESSED LUMINAIRE 2x4' OR 2x2'	---
WR	SURFACE LUMINAIRE 2x4' OR 2x2'	---
WR	TRACK LIGHTING LUMINAIRE	---
WR	PARTIALLY SHADED LUMINAIRE OR WITH "E" SUFFIX ARE EMERGENCY	---
WR	EXIT SIGN - WALL MOUNTED OR CEILING MOUNTED ARROWS INDICATE PATH OF EGRESS	---
WR	REMOTE EMERGENCY HEAD	---
WR	BATTERY EMERGENCY LUMINAIRE	---

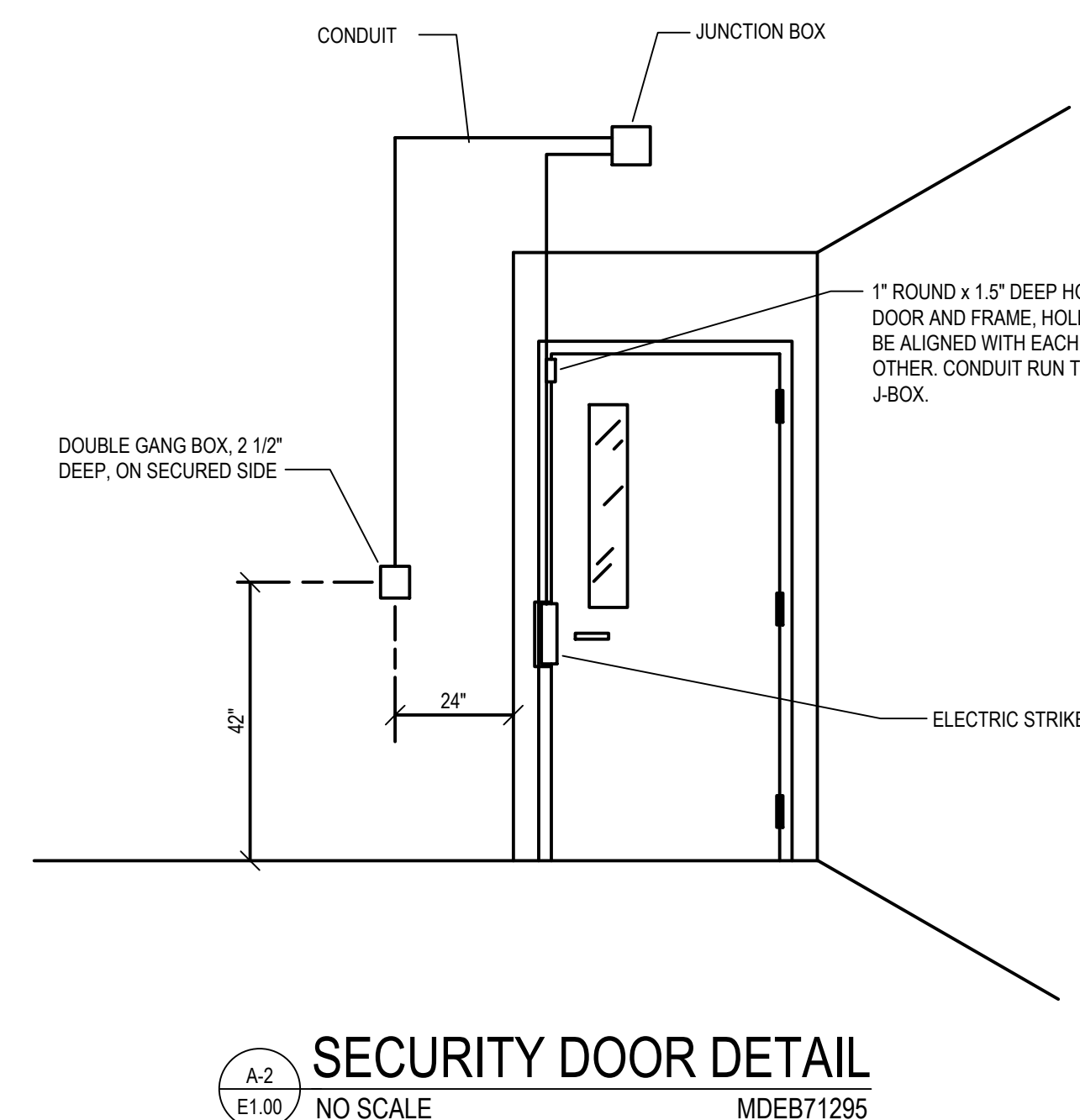
- SYMBOL NOTES:  
 1. "AC" DENOTES ABOVE COUNTER. COORDINATE HEIGHT WITH ARCHITECT.  
 2. "H" DENOTES HORIZONTAL MOUNTING OF DEVICE.  
 3. "B" DENOTES MOUNTED IN BASE.  
 4. "F" DENOTES MOUNTED IN FACE OF CABINETS.

SYMBOL	DESCRIPTION	MTG. HT. TO ⌀
F	FIRE ALARM PULL STATION	46"
WP	FIRE ALARM HORN/STROBE LIGHT (WP-DENOTES WEATHER PROOF)	80"
?	AREA SMOKE DETECTOR-PHOTOELECTRIC	---
☒	VISUAL ONLY ALARM	80"
☒	AUDIO ONLY ALARM	---
☒	CEILING SPEAKER	---
☒	SPEAKER/STROBE LIGHT	---
CO	SMOKEHORN BASE CO-DENOTES COMBO CARBON MONOXIDE/SMOKE	---
DH	MAGNETIC DOOR HOLD OPEN	---
CO	CARBON MONOXIDE SENSOR. E.C. TO ROUGH-IN SINGLE GANG BOX AND 1/2" C. TO ACCESSIBLE CEILING SPACE.	---
D	DUCT SMOKE DETECTOR	---
H	HEAT DETECTOR	---
TS	O.S.AY TAMPER SWITCH	---
FS	WATER FLOW SWITCH	---
RT	REMOTE ALARM KEY TEST SWITCH	46"
CR	FIRE ALARM CONTROL RELAY	---
BD	BEAM DETECTOR	---
FSD	FIRE/SMOKE DAMPER	---
FACP	FIRE ALARM CONTROL PANEL	---
FAA	FIRE ALARM ANNUNCIATOR PANEL	---
S	CEILING SPEAKER	---
CARD	CARD READER	46"
SDC	SECURITY DOOR CONTACT	AT DOOR HEAD
SEC	SECURITY INTERCOM	46"
SEC	SECURITY CAMERA - "W" DENOTES WALL MOUNTED CHEVRON INDICATES AIM LINE	TYPICALLY CLG MOUNTED
SEC	SECURITY DOOR REQUEST TO EXIT	AT DOOR HEAD

- F.A. NOTES:  
 1. E.C. TO PROVIDE CONNECTION TO ALL DUCT DETECTORS WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. COORDINATE QUANTITY AND LOCATIONS WITH MECHANICAL CONTRACTOR SCHEDULES, REVIEWING ALL CFM REQUIREMENTS. PROVIDE DUCT DETECTORS IF NOT NOTED TO BE PROVIDED BY M.C.  
 2. E.C. TO PROVIDE CONNECTIONS TO ALL FLOW AND TAMPER SWITCHES WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. COORDINATE QUANTITY AND LOCATIONS WITH FIRE PROTECTION DRAWINGS AND/OR DESIGN BUILD CONTRACTOR.  
 3. E.C. TO PROVIDE EMERGENCY POWER TO FIRE ALARM BOOSTER POWER SUPPLIES WHEN EMERGENCY POWER SYSTEM IS AVAILABLE.



A-1  
 E1.00  
 ELECTRICAL IDENTIFICATION  
 N.T.S.



A-2  
 E1.00  
 SECURITY DOOR DETAIL  
 NO SCALE  
 MDEB71295

**ELECTRICAL SPECIFICATIONS**

**26-0500 GENERAL PROVISIONS**

- FURNISH AND INSTALL FIRST-CLASS WORKING SYSTEMS, TESTED AND READY FOR OPERATION, COMPLETE WITH LABOR AND MATERIALS (J.L. APPROVED COMMERCIAL GRADE). CONFORM TO DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. USE PROPER NEMA RATED EQUIPMENT (i.e. "3R" WEATHERPROOF, "1" GENERAL DUTY, ETC.)
- COORDINATE WITH THE DRAWINGS AND SPECIFICATIONS OF THE OTHER TRADES AND WITH THE OWNER.
- FIELD VERIFICATION OF ALL DIMENSIONS ARE REQUIRED, EXACT LOCATIONS, DISTANCES, AND LEVELS WILL BE GOVERNED BY ACTUAL FIELD CONDITIONS.
- COMPLY WITH THE NATIONAL ELECTRICAL CODE, PLUS LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK. ANY FEES IN CONNECTION THEREWITH ARE TO BE PAID BY ELECTRICAL CONTRACTOR.
- COMPLETE REQUIRED DEMOLITION, MAINTAINING OPERATION OF EXISTING TO REMAIN (COORDINATE WITH GC REGARDING ANY PHASING OF THE PROJECT) REWIRE EXISTING CIRCUITS IF REQUIRED.
- WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

**TESTING**

- WORK REQUIRED UNDER THIS HEADING SHALL BE BY THE ELECTRICAL CONTRACTOR (OR AS NOTED) AND INCLUDES ALL SUPERVISION, LABOR, MATERIALS, INSTRUMENTATION AND EQUIPMENT NECESSARY TO EFFECTIVELY TEST, MEASURE AND VERIFY THE PERFORMANCE OF THE ELECTRICAL EQUIPMENT SYSTEMS.

**26-0 529, 26-0533, 260534 RACEWAY, BOXES, AND FITTINGS**

- ALL WIRING SHALL BE RUN IN CONCEALED EMT (THINWALL) CONDUIT IN THE FINISHED AREAS OF THE BUILDING. CONDUIT MAY BE EXPOSED IN EQUIPMENT ROOMS OR OVERHEAD IN ROOMS WITHOUT CEILINGS. CONDUITS EXPOSED TO WEATHER TO BE RGC (RIGID GALVANIZED CONDUIT), MC CABLE ALLOWED IN AREAS ALLOWED PER NATIONAL ELECTRICAL CODE AND NOT SUBJECT TO DAMAGE.
- HORIZONTAL AND VERTICAL CONDUIT RUNS MAY BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS, CLAMP-BACKS OR OTHER APPROVED DEVICES.
- CONDUITS SHALL NOT BE RUN IN NOR SUPPORTED FROM DUCTWORK.

**26-0219 CONDUCTORS**

ALL CONDUCTORS SHALL BE NEW. ALL CONDUCTORS FOR POWER AND LIGHTING SYSTEMS WIRING SHALL BE 98% CONDUCTIVITY COPPER TYPE THN OR THW. ALUMINUM IS TO BE IS PERMITTED FOR SERVICE ENTRANCE AND PANEL FEEDS. BRANCH CIRCUIT WIRING SHALL BE COPPER. TYPE NM, NMC AND NMS SHALL BE ALLOWED PER 334.10- MULTI FAMILY STRUCTURES PERMITTED UNDER TYPES III, IV AND V CONSTRUCTION.

**26-2736 WIRING DEVICES**

- CONVENIENCE OUTLETS SHALL BE SPECIFICATION GRADE, RATED AT 20 AMPERE, GROUNDING TYPE, 125 VOLT, AND BEAR U.L. LABEL OF APPROVAL. STAINLESS STEEL COVER PLATES, MANUFACTURERS: PASS AND SEYMOUR CATALOG 5251-1, OR EQUAL BY HUBBLE, AND LEVITON.
- ALL SWITCHES FOR LIGHTING SHALL BE SPECIFICATION GRADE RATED AT 20 AMPERE, 120/277 VOLTS. PASS AND SEYMOUR CATALOG 20AC-1 OR EQUAL BY HUBBLE, AND LEVITON.
- 16350 GROUNDING**
  - INSTALL COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
  - INSTALL BONDING WIRE IN NONMETALLIC AND FLEXIBLE CONDUIT CONNECTED AT SOURCE END TO PANELBOARD EQUIPMENT GROUND BAR AND AT LOAD END TO ENCLOSURE.
  - EXTEND COMPLETE BUILDING GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. INCLUDE INSULATED GROUND FOR ALL EXTERIOR AS WELL AS TOILET CIRCUITS.

2A4 (EX)														
BASED ON SQ.D. I-LINE OR EQUAL														
CKT NO.	VOLT AMPS				DESCRIPTION	CKT BRKR	L	CKT BRKR	DESCRIPTION	VOLT AMPS				CKT NO.
	LTG.	HVAC	MTRS	REC.						OTHER	LTG.	HVAC	MTRS	
1				720	EX LOBBY REC	20	A	20	EX CORR REC				900	2
3				720	EX LOBBY REC	20	B	20	EX 100A,B,C,D,E REC				900	4
5				900	EX LOBBY REC	20	C	20	EX 104 REC				720	6
7				900	EX LOBBY REC	20	A	20	EX 104 REC				1200	8
9				720	EX LOBBY REC	20	B	20	EX 104 REC				1600	10
11				1440	REC 101 & 102	20	C	20	REC				300	12
13				700	EX TEMP CONTROL	20	A	20	EX CONF REC				900	14
15				1000	EX CONF REC	20	B	20	EX MULTI REC				900	16
17				1000	EX CONF REC	20	C	20	EX MULTI REC				1080	18
19				1000	EX CONF REC	20	A	20	EX CORR TEMP CNTRL				700	20
21				1000	EX CONF REC	20	B	20	EX 103 REC				900	22
23				300	REC	20	C	20	EX 103B REC				1080	24
25				360	EX ELECTRIC RM	20	A	20	EX 103C REC				1080	26
27				1100	MICROWAVE	20	B	20	EX 105B COT AREA				1080	28
29				360	REC 100J	20	C	20	EX HEALTH SUITE				1200	30
31				300	REC 100	20	A	20	REC 100F,G,J				540	32
33				300	REC 100	20	B	20	DOOR RELEASE				200	34
35				300	REC 100	20	C	20	FRIDGE *				1200	36
37					EX TVSS	50/3	A	20	REC				300	38
39														40
41														42
SUBT 0 0 0 0 11320 1800										SUBT 0 0 0 0 14680 2100 208Y/120				
TOTAL LOAD 26,900 VA					DIVERSITY					VOLTS: 208Y/120				
LTG.= 0 125%					0					PHASE:				
HVAC= 0 100%					0									
MOTORS= 0 0% 125%LRGST + 100%					0					CIRCUIT CAPACITY:				
*RECEPT= 26,000 VA 69% 50%>10kVA					18,000 VA					MLO				
OTHER= 3,900 VA 100%					3,900 VA					MOUNTING:				
TOTAL DIV. LOAD= 21,900 VA										LOCATION:				
LINE AMPS= 61														
LINE AMPS X 1.25= 76 A														

- NOTES:  
 \* GFCI CIRCUIT BREAKER