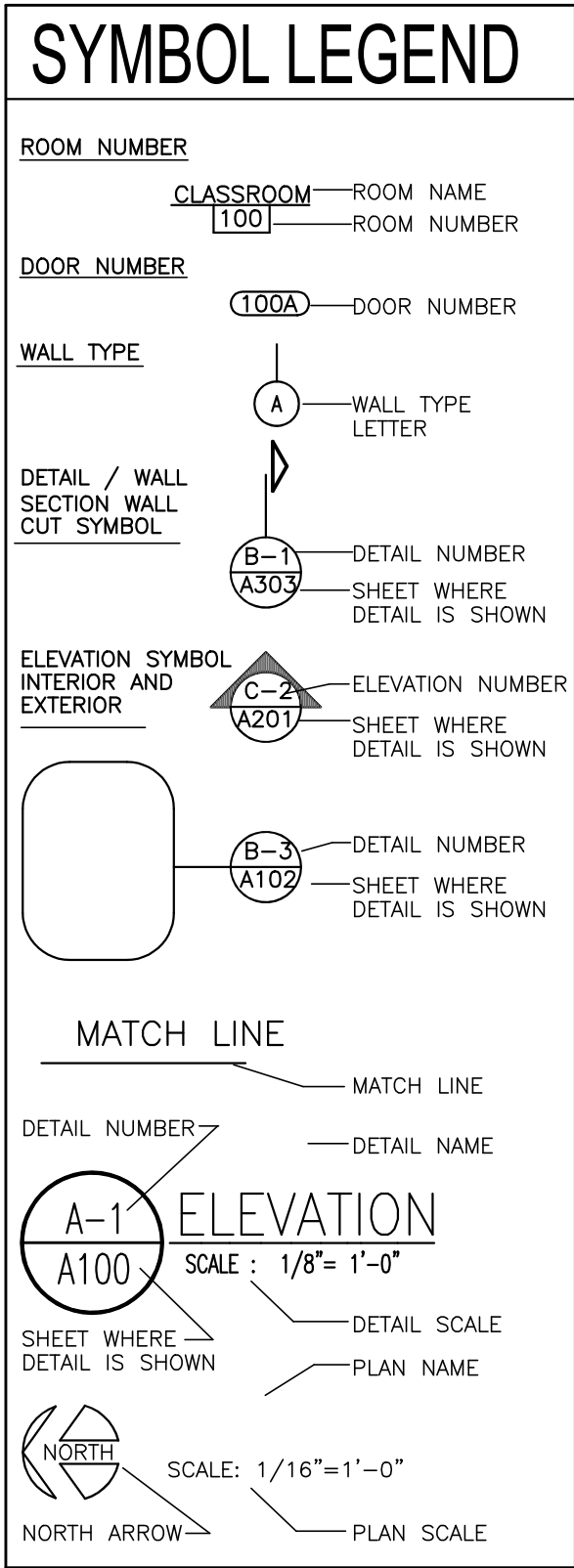


OVERALL PLAN
SCALE : 1/16"=1'-0"



SITE MAP
SCALE : NTS

Sheet Index

AG-100 TITLE SHEET

C-1 SITE PLAN

AD-101 DEMO PLAN

A-101 FLOOR PLAN

A-102 CEILING PLAN

A-301 INTERIOR DETAILS AND FINISHES

CODE INFORMATION

APPLICABLE CODES:	BUILDING CODE FIRE CODE PLUMBING CODE MECHANICAL CODE ELECTRICAL CODE	MICHIGAN BUILDING CODE 2021 NFPA 101 2012 MICHIGAN PLUMBING CODE 2021 MICHIGAN MECHANICAL CODE 2021 MICHIGAN ELECTRICAL CODE 2023
-------------------	---	---

CHAPTER 5	ALLOWABLE HEIGHT AND BUILDING AREA		ACTUAL	6810 SF	
		GROUP	TYPE OF CONSTRUCTION	HEIGHT	AREA
	TABLE 503	E	TYPE II (B)	2 STORY ??'	14,500 SF
	MICHIGAN SCHOOL RULES		TYPE II(000)		

CHAPTER 8	NECESSARY AFFIDAVITS WILL BE PROVIDED TO THE INSPECTOR	VERTICAL EXITS	CORRIDORS	ROOMS
TABLE 803.5 FLAME SPREAD REQUIREMENTS		B	C	C
NFPA 101				

CHAPTER 9	FIRE ALARM	FIRE PROTECTION	FIRE EXTINGUISHER	NUMBER	TRAVEL
REQUIRED	REQUIRED	2-A PER 3000 SF	(2)4-A	75 FEET MAX	

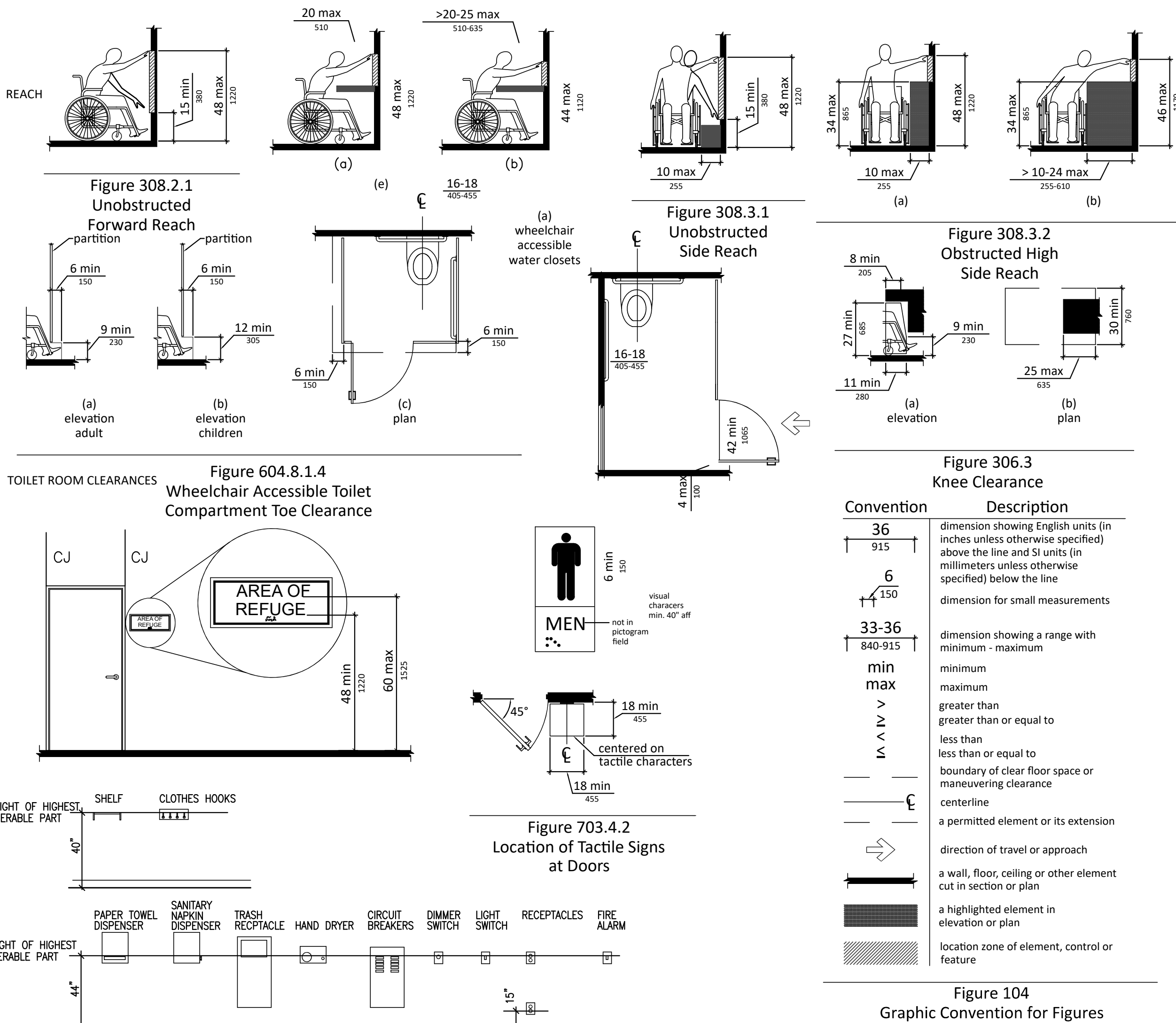
CHAPTER 10	AREA	CALCULATED	AFFIDAVIT FOR PLUMBING
LOAD	CLASSROOMS	1:20	48
OCCUPANT	READING/VOCATION	1:50	
LOAD	OFFICE AREAS	1:100	2
ASSEMBLY	ASSEMBLY	1:7	
TOTAL	TOTAL	50	50

CHAPTER 10	EGRESS WIDTH	MINIMUM CORRIDOR WIDTH 6 FEET	DOOR CAN NOT REDUCE 1/2 REQUIRED WIDTH IN COURSE OF SWING	FULL OPEN NO MORE THAN 7" INTO EGRESS
EGRESS ILLUMINATION	1 FOOT CANDLE	1:40	MIN TO MAX	
POINT TO POINT CALCULATIONS ARE PROVIDED ON THE ELECTRICAL PLANS				
EXITS	REQUIRED (.2" PER OCCUPANT)	PROVIDED		
	1 EXITS - 34"	3 EXITS - 102		
	EXIT LENGTH 250' TRAVEL DISTANCE			

CHAPTER 29	PLUMBING FIXTURES				
OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK	
	MALE	FEMALE			
EDUCATIONAL	1:50	1:50	1 PER 50	1 PER 100	1 SERVICE SINK
OFFICE	1:25	1 PER 40	1 PER 500	1 PER 500	1 SERVICE SINK
ASSEMBLY	1:125	1:65	1 PER 200	1 PER 500	1 SERVICE SINK
ACTUAL NUMBER OF OCCUPANTS	50				
FIXTURE REQUIRED	1	1	2	2	1
FIXTURES PROVIDED	1	1	2	2	1
URINAL SHALL NOT BE SUBSTITUTED FOR MORE THAN 67% OF WATER CLOSETS					

ABBREVIATIONS

ACT	Acoustical Ceiling Tile
AFT	Above Finished Floor
ALUM	Aluminum
BLDG	Building
CONC	Concrete
CP	Carpet
EA	Each
ELEM	Elementary
FRP	Fibre-Reinforced Plastic
FRT	Fire Retardant Treated
GB	Gypsum Board
GYP BD	Gypsum Board
HM	Hollow Metal
INSUL	Insulated
K	Kindergarten
L.E.	Lower Elementary
LB	Load Bearing
M.S.	Middle School
MAX	Maximum
MECH	Mechanical
MIN	Minimum
NLB	Non Load Bearing
O.C.	On Center
OSB	Orientated Stranc Board
PT	Paint
SPEC	Specifications
ST	Stair
T&B	Top and Bottom
TYP	Typical
U.E.	Upper Elementary
VCT	Vinyl Composite Tile
W/	With
WD	Wood



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151 S MAIN

CEDAR SPRINGS MICHIGAN 49319

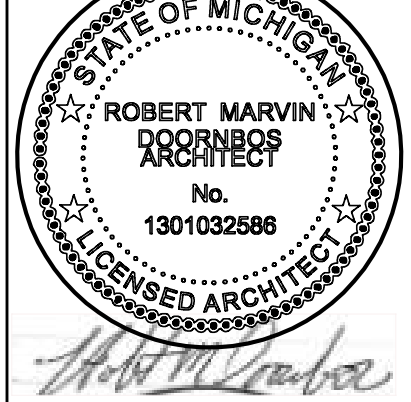


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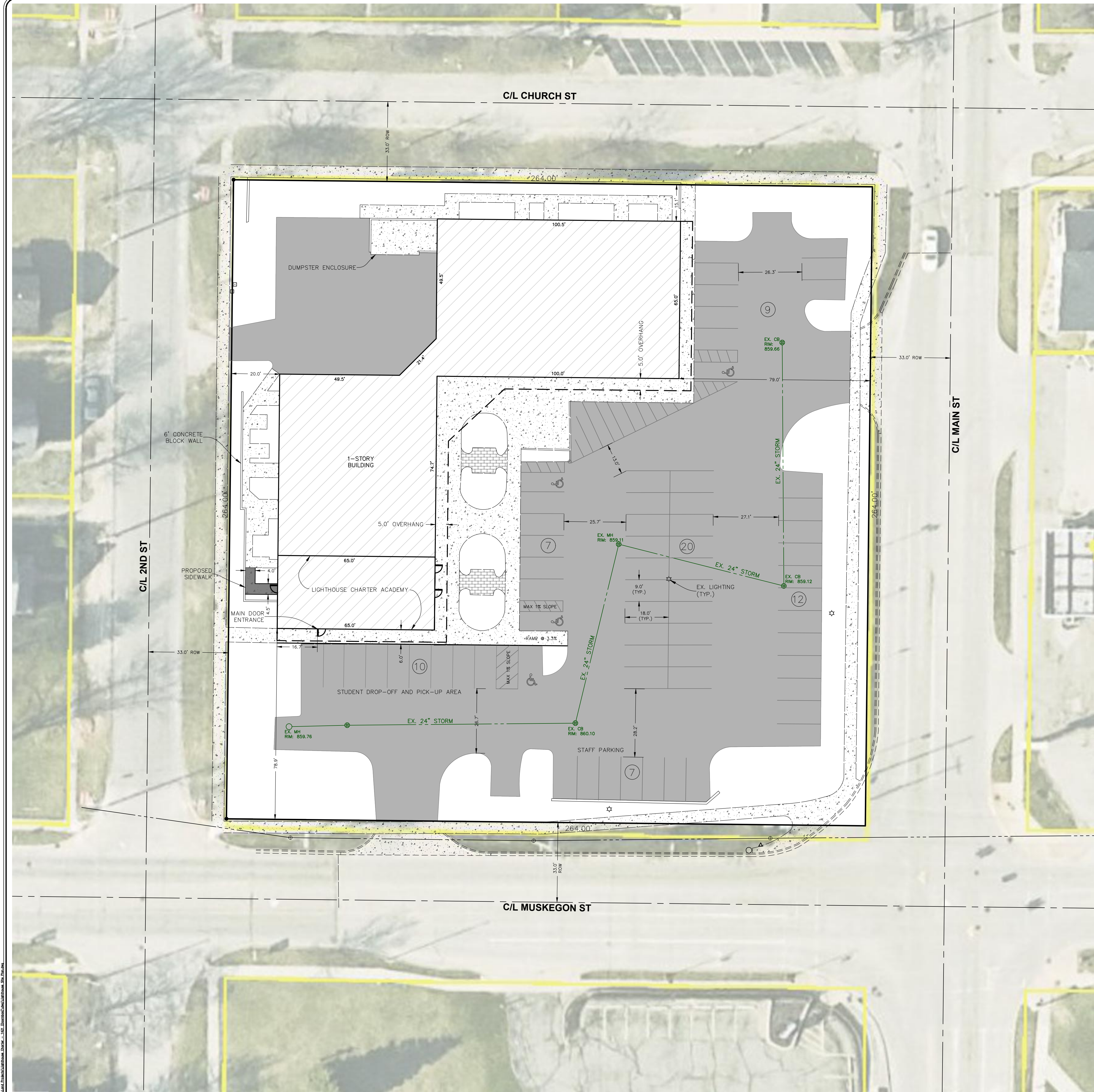
SEAL



PROJECT NUMBER
LHN 0226

SHEET NUMBER
AG-100

SHEET NAME
CODE INFO



PROPERTY DESCRIPTION:

PPN# 41-02-25-489-013
151 S Main St NE
Owner: Stampede Investment Group LLC
PO Box 1649
Destin, FL 32540

Lots 1 through 8 inclusive, Block 67 of the Replatting of the Village of Cedar Springs, (now City), Kent County, Michigan, as recorded in Liber 2 of Plats, Page 74.

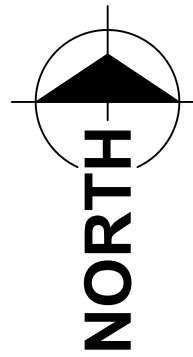
Contains 69,716 SF or 1.60 Acres

Project Narrative:

Lighthouse Charter Academy will be leasing the south portion of the existing building to be used for two classrooms. There will be 4 staff members and a maximum of 30 students.

GENERAL NOTES:

- Driveway:** All existing driveways and impervious surfaces are to remain intact. No driveway improvements are proposed.
- Wetlands:** No wetlands are indentified as existing on the proposed site.
- Soil Erosion:** No grading changes or changes to existing soils which may cause increased soil erosion are proposed.
- Flood Zone:** By graphic plotting only, this property is in Zone "C" of the Flood Insurance Rate Map, Community Panel No. 26081C0181D, which bears an effective date of 02/23/2023 and is not in a special flood hazard area. Zone "C" denotes "Areas located outside of a designated Flood Hazard Area".
- Water Supply:** The existing building is serviced by public water.
- Sanitary/Septic System:** The existing building is serviced by public sewer.
- Storm Drainage:** Existing storm drain infrastructure to remain intact. No changes to existing storm drains are proposed.
- Fire and Emergency Access:** Existing parking lot to remain. No changes to existing Emergency Fire Access infrastructure are proposed.
- Drop-Off and Pick-up Areas:** The proposed School to use vans for student pick-up and drop-off. The parking lot directly south of the building to be used as pick-up and drop off location for students.
- Off-Street Parking Requirements:** No changes to existing off-street parking are proposed. A staff parking location has been proposed in the south parking lot as graphically indicated on this sheet.
- Setbacks:** No changes to existing building envelopes and lot setbacks are proposed.
- Athletic Fields** and Play Areas: No athletic fields or play areas exist on site, none are proposed.
- Site Lighting:** No changes to existing lighting infrastructure or changes requiring added site lighting are proposed.
- Dumpster Enclosures:** No changes to existing dumpster enclosure are proposed.



SCALE: 1" = 20'

LEGEND	
T	TOWN
R	RANGE
N	NORTH
S	SOUTH
E	EAST
W	WEST
SEC	SECTION
POB	POINT OF BEGINNING
PROPOSED BLACKTOP	
PROPOSED CONCRETE	
EXISTING BLACKTOP	
EXISTING CONCRETE	
BUILDING	
SECTION CORNER	
SET CAPPED IRON	
FOUND IRON OR NAIL	
STORM SEWER MANHOLE	
SANITARY SEWER MANHOLE	
CATCH BASIN	
HYDRANT	
VALVE	
UTILITY POLE	
GUY WIRE	
LIGHT POLE	
WALL MOUNTED LIGHT	
PEDESTAL	
TRANSFORMER	
SIGN	

SITE PLAN
LIGHTHOUSE ACADEMY
151 S. MAIN ST NE, CEDAR SPRINGS

FOR: Robert Doornbos
1744 Marne Estates Drive
Marne, MI, 49435
(616) 813-2452

PART OF THE SOUTHEAST 1/4, SECTION 25, T10N, R11W,
CITY OF CEDAR SPRINGS, KENT COUNTY, MICHIGAN

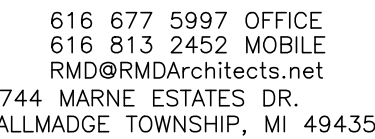


DATE: 02/02/2026

C1

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151 S MAIN
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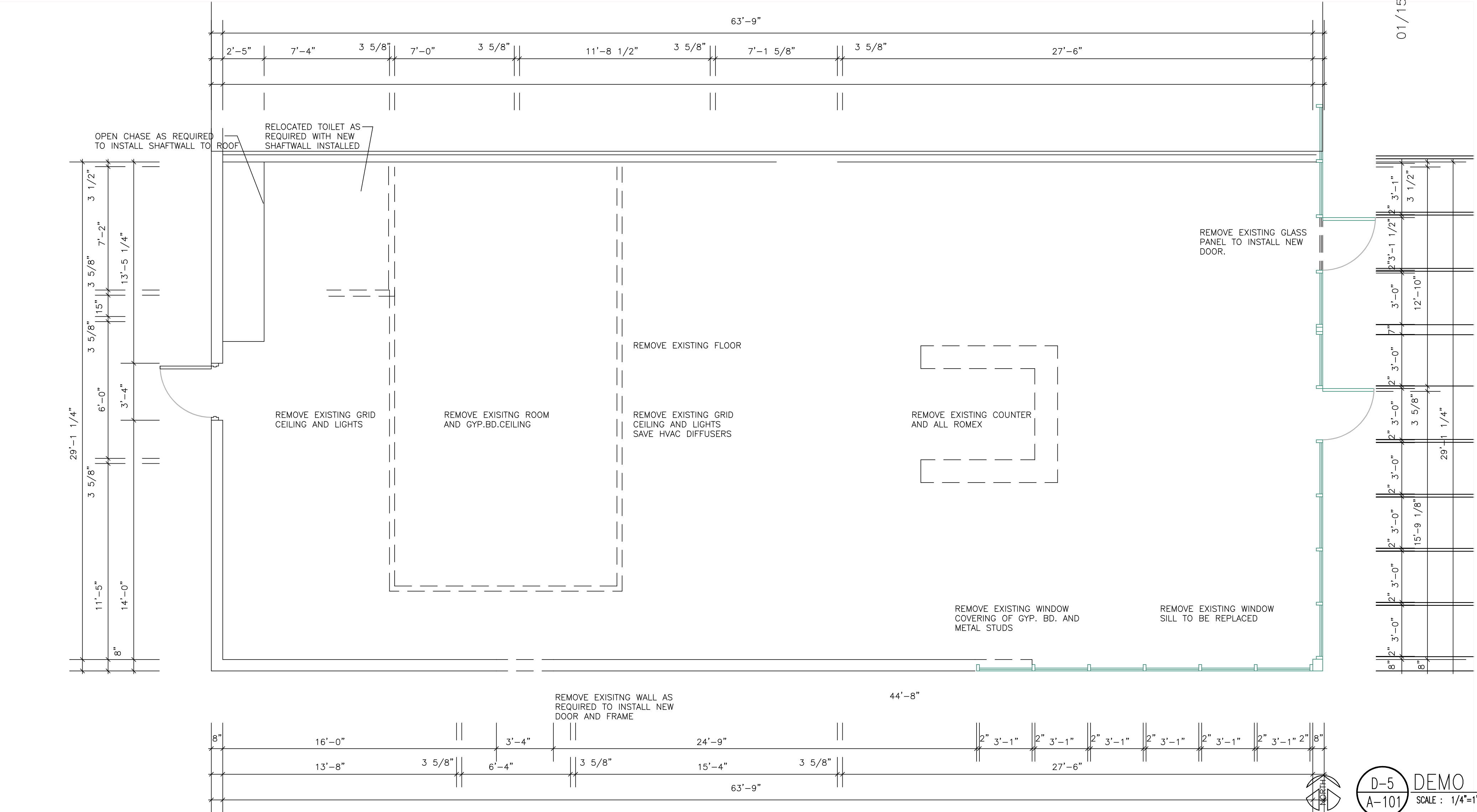
SEAL



LHN 0226

SHEET NUMBER
AD-101

SHEET NAME
DEMO PLAN



Sheet Index

AG-100	TITLE SHEET
C-1	SITE PLAN
AD-101	DEMO PLAN
A-101	FLOOR PLAN
A-102	CEILING PLAN
A-301	INTERIOR DETAILS AND FINISHES
M-1	MECHANICAL SCHEDULES
M-2	
P-1	PLUMBING PLAN
P-2	SCHEDULES
EP-1	POWER PLAN
EL-1	LIGHTING PLAN
EL-2	PHOTOMETRICS
E100	DETAILS
E200	ONE LINE
ED-1	DEMO PLAN

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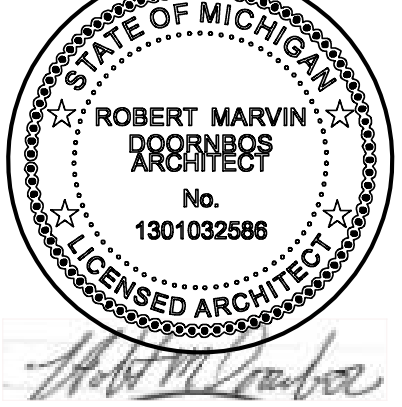


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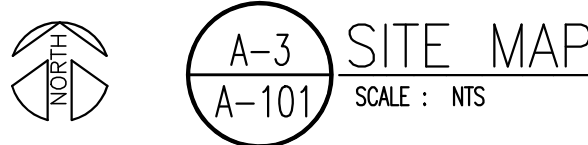
PROJECT NUMBER
LHN 0226

SHEET NUMBER
AG-100

SHEET NAME
CODE INFO

SYMBOL LEGEND

ROOM NUMBER	CLASSROOM	ROOM NAME
100	ROOM NUMBER	
DOOR NUMBER	100A	DOOR NUMBER
WALL TYPE	A	WALL TYPE LETTER
DETAIL / WALL SECTION WALL CUT SYMBOL	B-1	DETAIL NUMBER
	A303	SHEET WHERE DETAIL IS SHOWN
ELEVATION SYMBOL INTERIOR AND EXTERIOR	C-2	ELEVATION NUMBER
	A201	SHEET WHERE DETAIL IS SHOWN
	B-3	DETAIL NUMBER
	A102	SHEET WHERE DETAIL IS SHOWN
MATCH LINE	MATCH LINE	
DETAIL NUMBER	DETAIL NAME	
A-1	ELEVATION	SCALE: 1/8"= 1'-0"
A100		
	DETAIL SCALE	
	PLAN NAME	
	SCALE: 1/16"= 1'-0"	
	NORTH ARROW	PLAN SCALE



NOTE:
PROVIDE FIRE ALARM SYSTEM
IN FIRE AREA 1 WITH PULLS
AT DOORS AND SMOKE DETECTORS

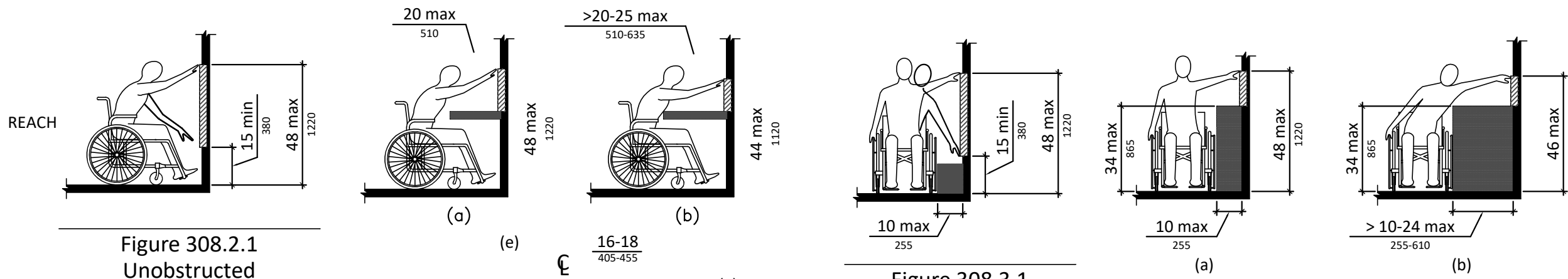


Figure 308.2.1
Unobstructed
Forward Reach

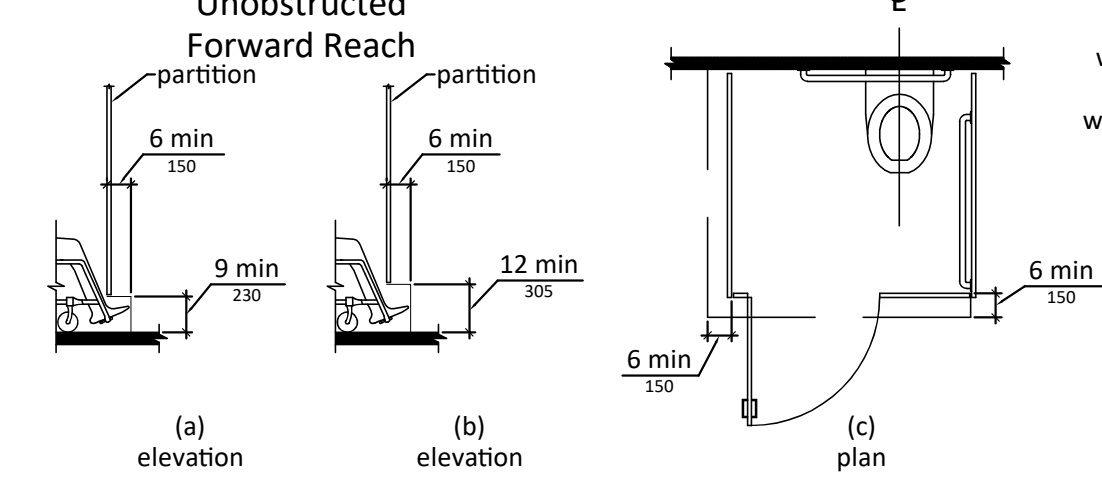


Figure 308.3.1
Unobstructed
Side Reach

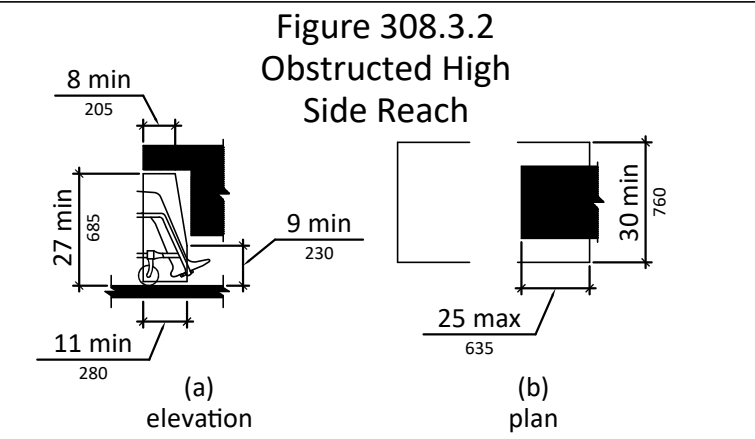


Figure 308.3.2
Obstructed High
Side Reach

Figure 604.8.1.4
Wheelchair Accessible Toilet
Compartment Toe Clearance

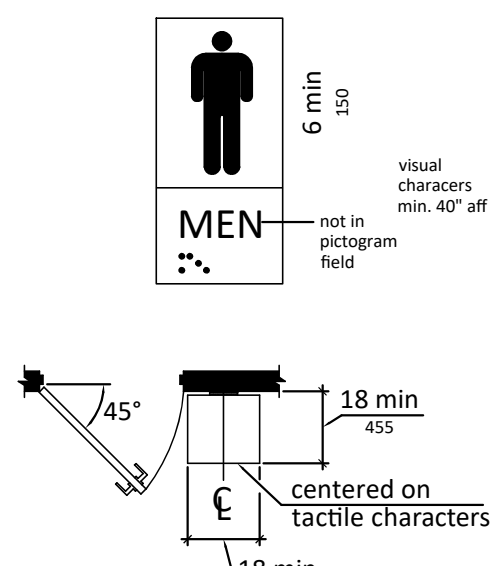
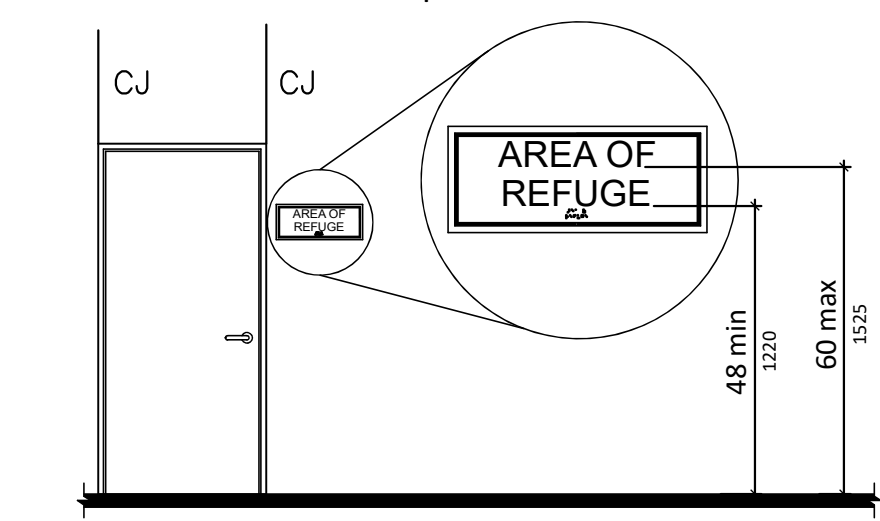


Figure 703.4.2
Location of Tactile Signs
at Doors

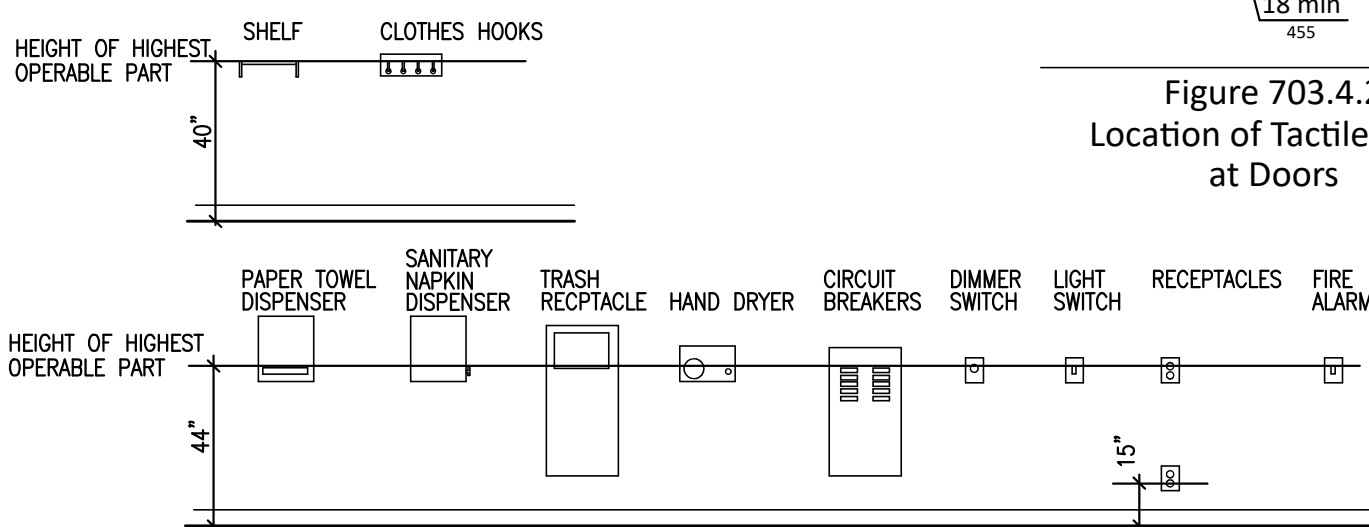


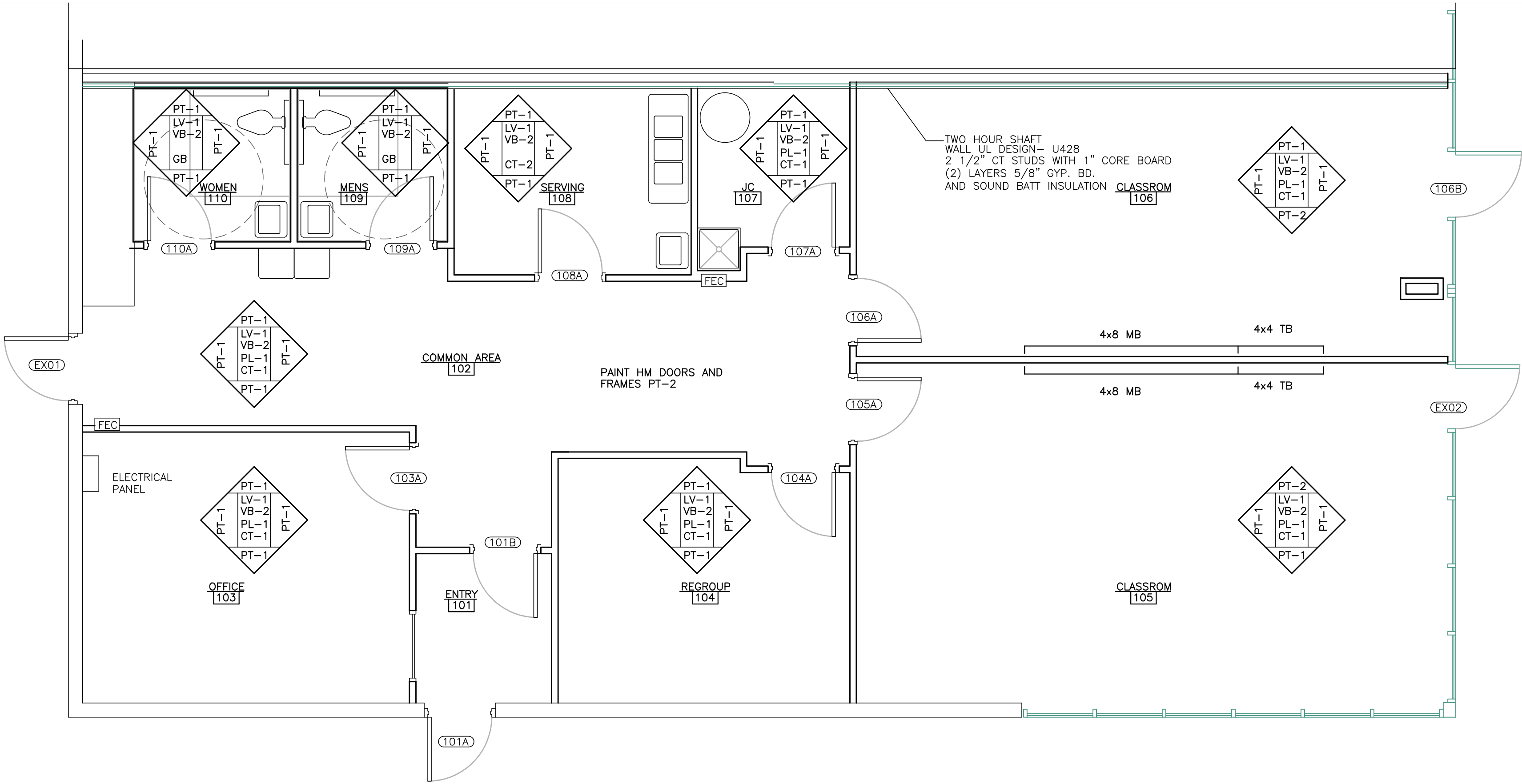
Figure 306.3
Knee Clearance

Convention	Description
36	dimension showing English units (inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
915	dimension for small measurements
6	dimension showing a range with minimum - maximum
150	minimum
33-36	maximum
840-915	greater than
min	greater than or equal to
max	less than
>	less than or equal to
<	boundary of clear floor space or maneuvering clearance
⊥	centerline
⊥	a permitted element or its extension
→	direction of travel or approach
⬅	a wall, floor, ceiling or other element cut in section or plan
▬	a highlighted element in elevation or plan
▨	location zone of element, control or feature

Figure 104
Graphic Convention for Figures

FINISH SCHEDULE

INTERIOR			
LVT FLOOR-1 (LV-1)	U5025	AMERICAN CHARM	ARMSTRONG FLOOR
VINYL BASE -2 (VB-2)	48 - GREY		JOHNSONITE
VINYL BASE - 3 (VB-3)	146 - BUTTERNUT		JOHNSONITE
CEILING TILE - 1 (CT-1)	2'x2' W/TEGULAR EDGES	MILLENNIA CLIMA PLUS	USG
CEILING TILE - 3 (CT-3)	FIBEROCK DRYWALL		
INTERIOR PAINT - 1 (PT-1)	HC-80 BLEEKER BEIGE	CERAMIC SATIN	COLOR BASED ON BENJAMIN MOORE
INTERIOR PAINT - 2 (PT-2)	2165-40 DARK BEIGE	CERAMIC SATIN	COLOR BASED ON BENJAMIN MOORE
CORNER GUARDS	MONTEREYO1110-BIOME:TUNDRA	160BN BLUNOSE SURFACE MOUNT INPRO CORP	
PLASTIC LAMINATE - 1 (PL-1)	SAND D331-60	MAT FINISH	WILSONART



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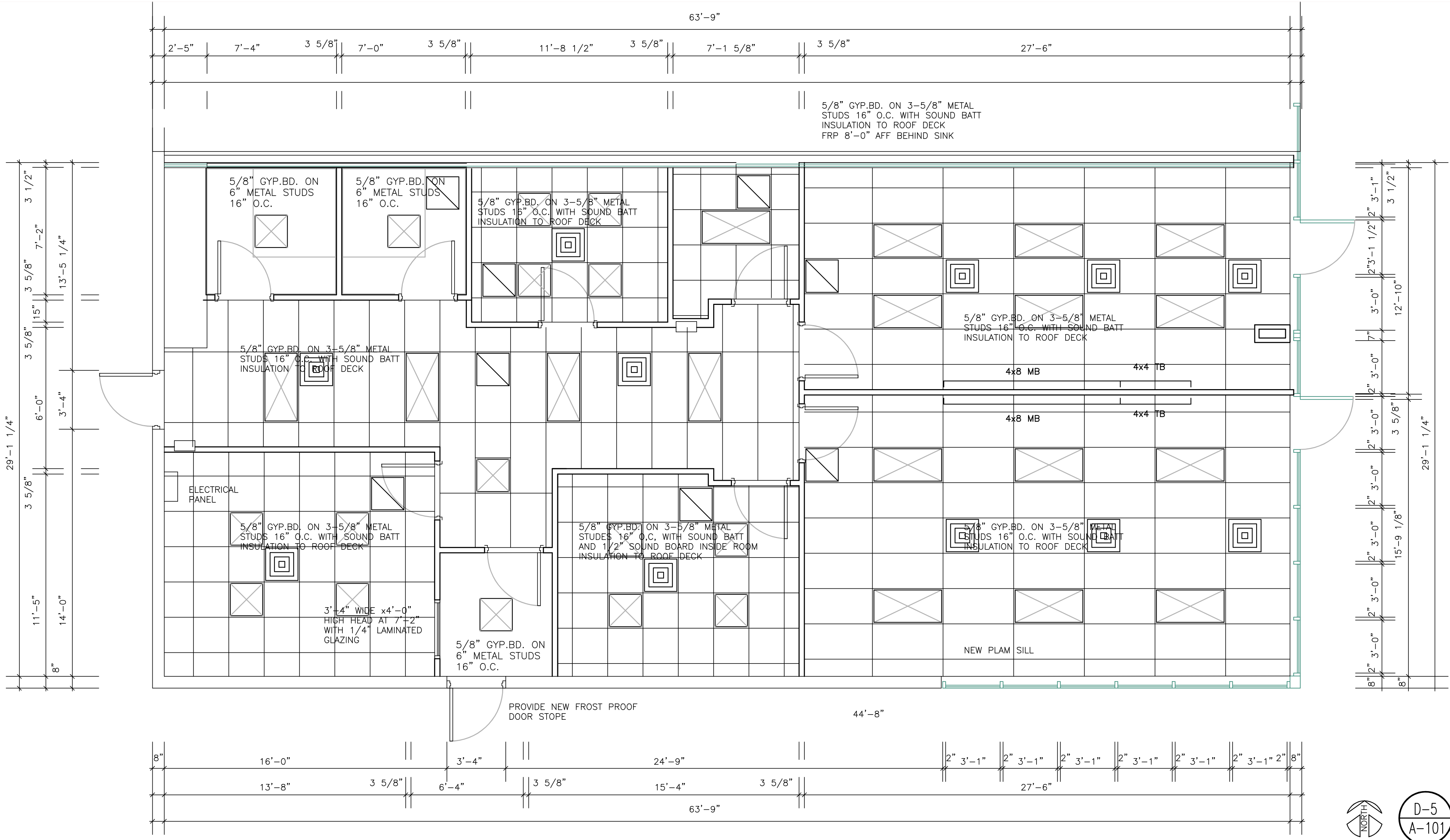
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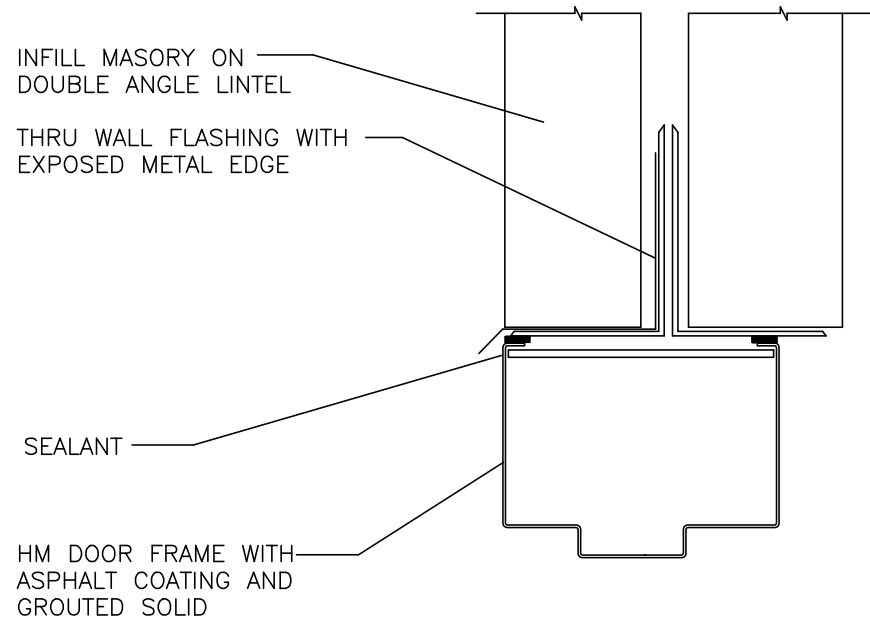
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SHEET NUMBER
A-102

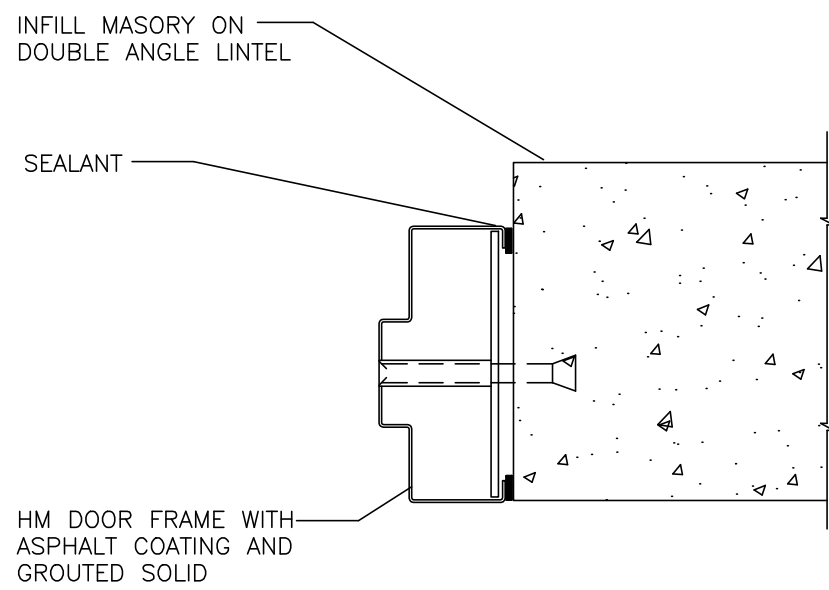
SHEET NAME
CEILING PLAN



D-5
A-101
CEILING PLAN
SCALE: 1/4\"=1'-0\"

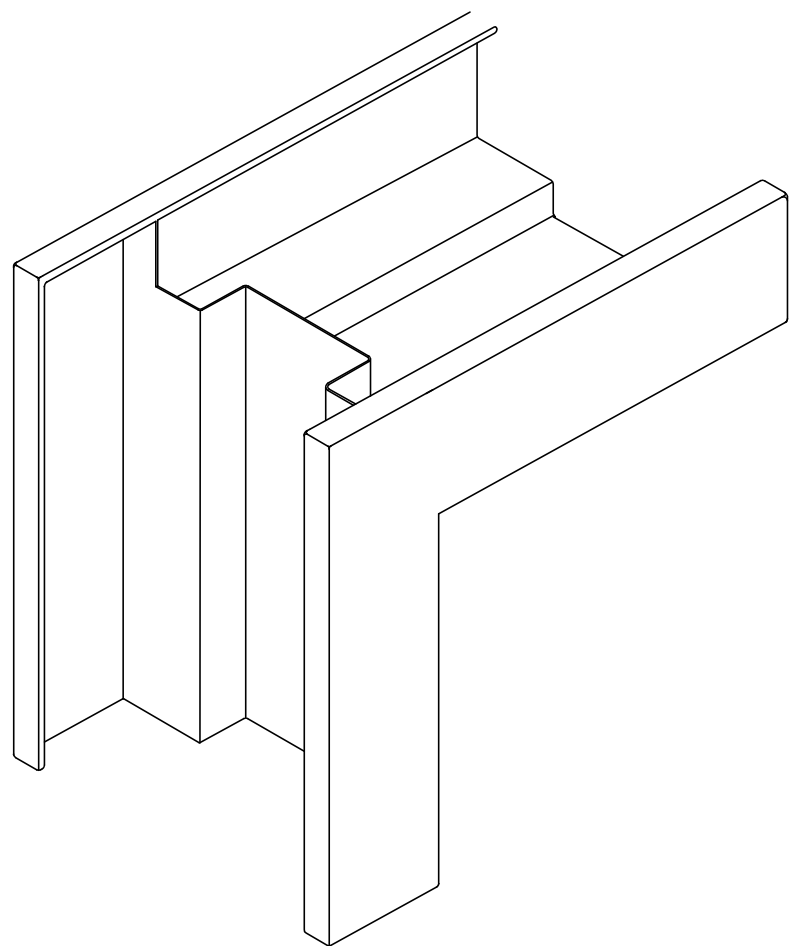


B-1
A-101 MASONRY HM DOOR JAMB
SCALE : NTS



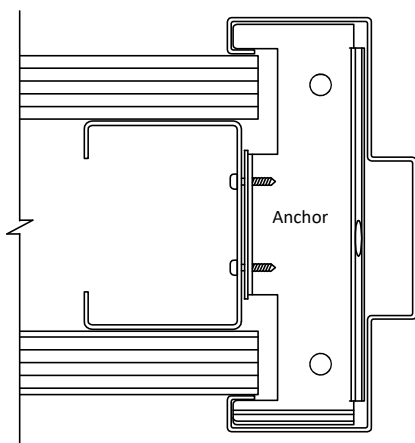
Note:
Material: 16 gauge .053" steel

B-1
A-101 MASONRY HM DOOR JAMB
SCALE : NTS



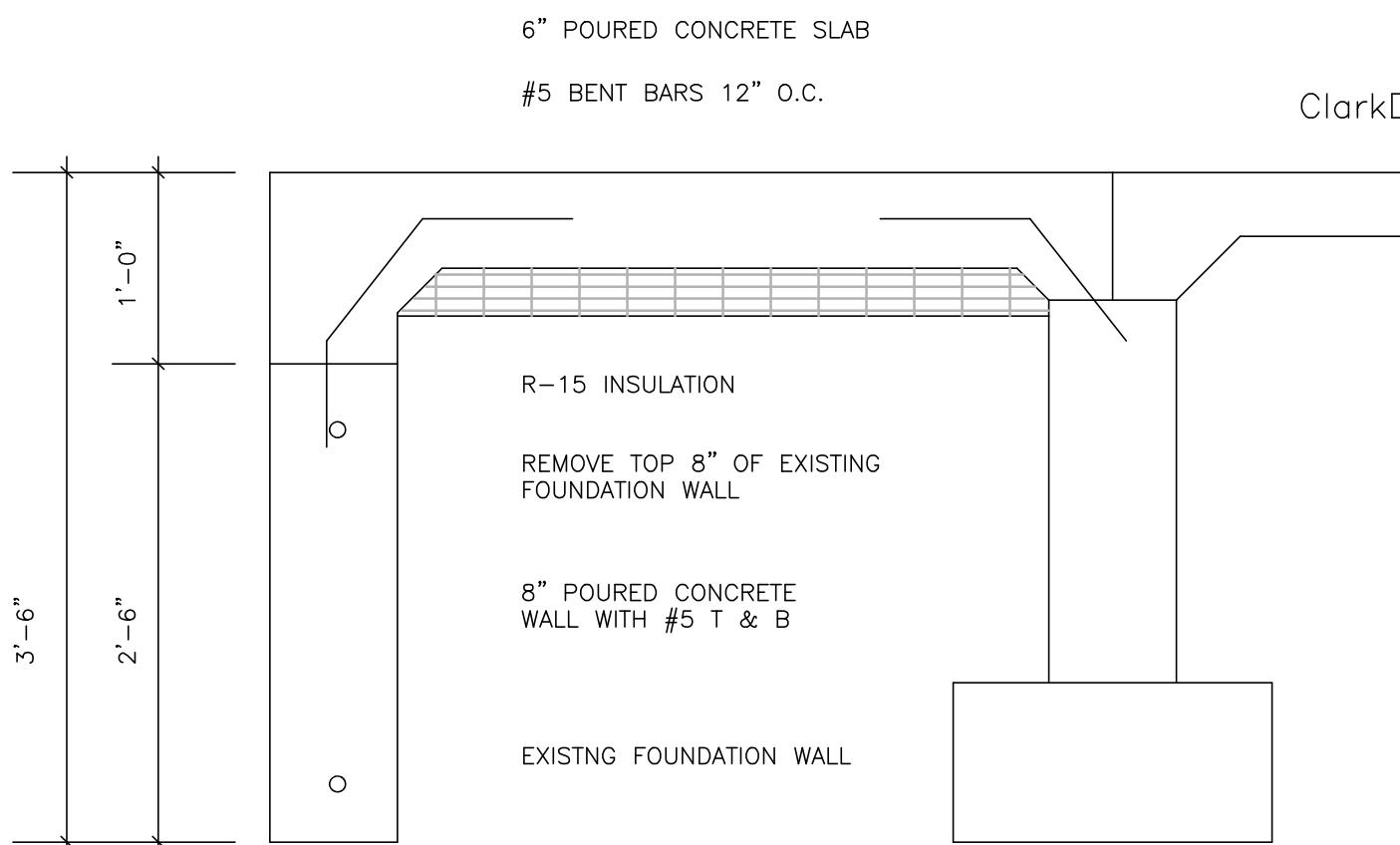
Note:
Material: 16 gauge .053" steel

A-3
A-101 WELDED HM FRAME HEAD
SCALE : NTS

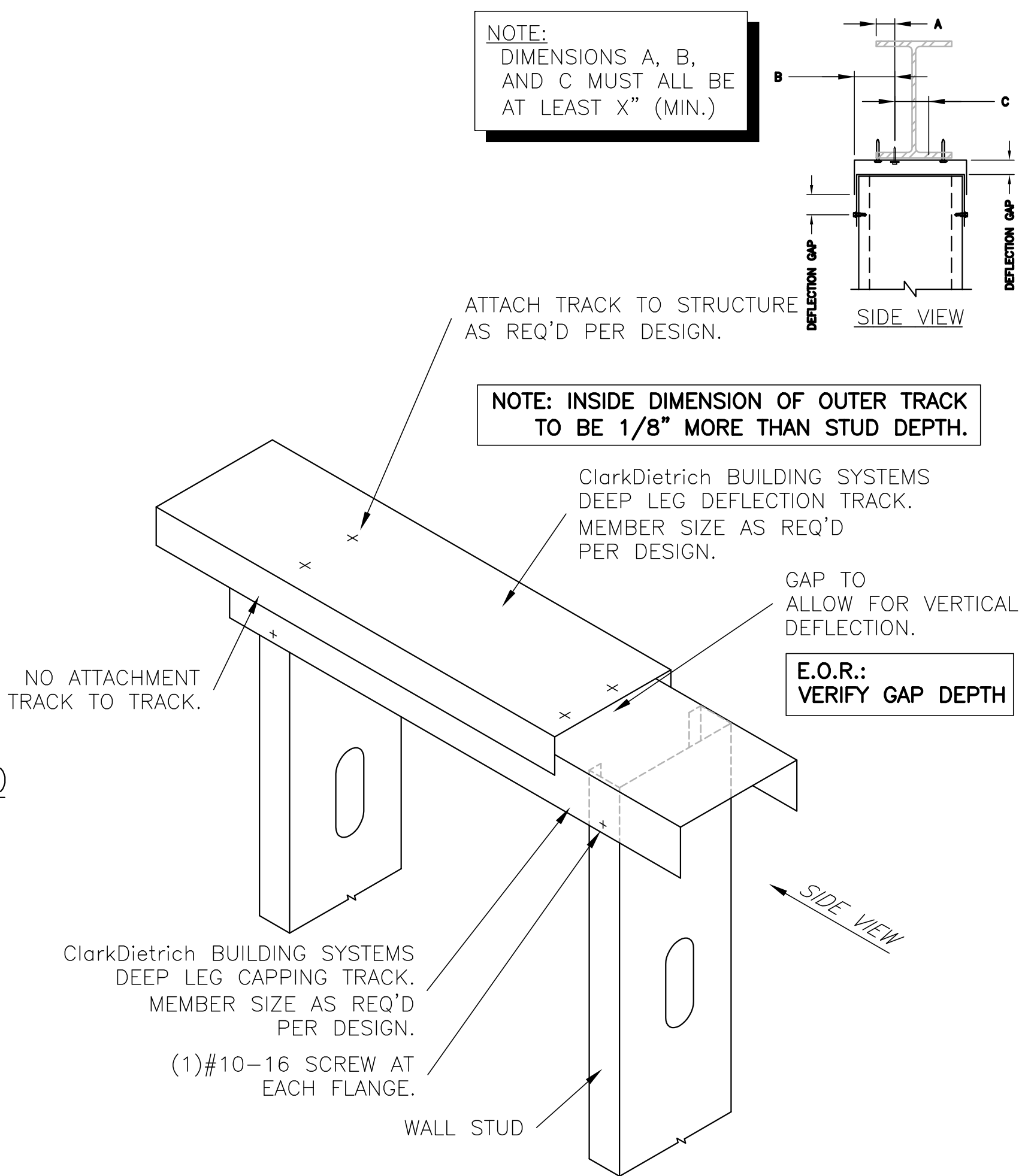


Note:
Frame Material: 14 to 16 gauge steel is typical

B-3
A-101 HM DOOR JAMB
SCALE : NTS



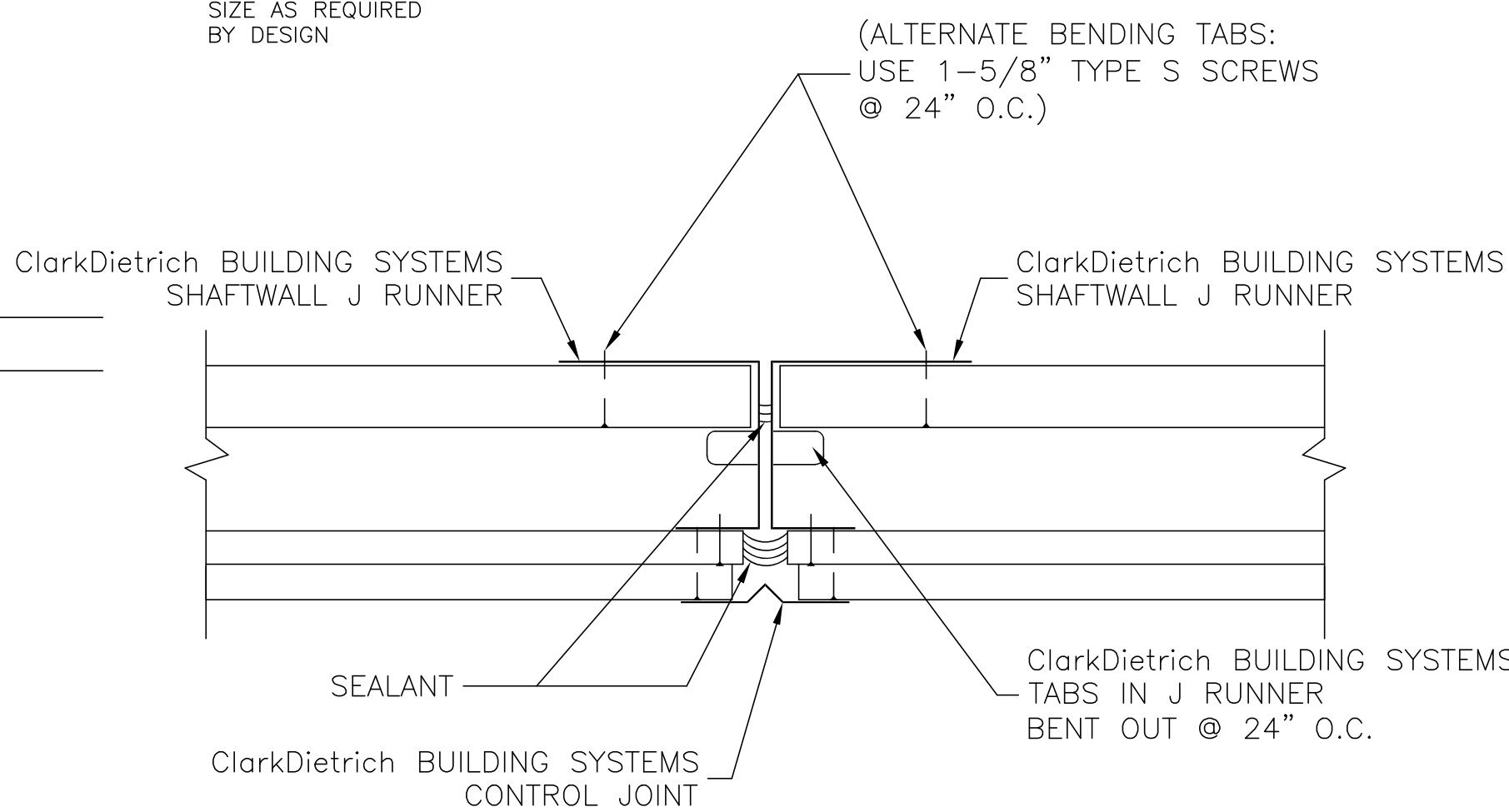
C-3
A-101 MASONRY HM DOOR JAMB
SCALE : NTS



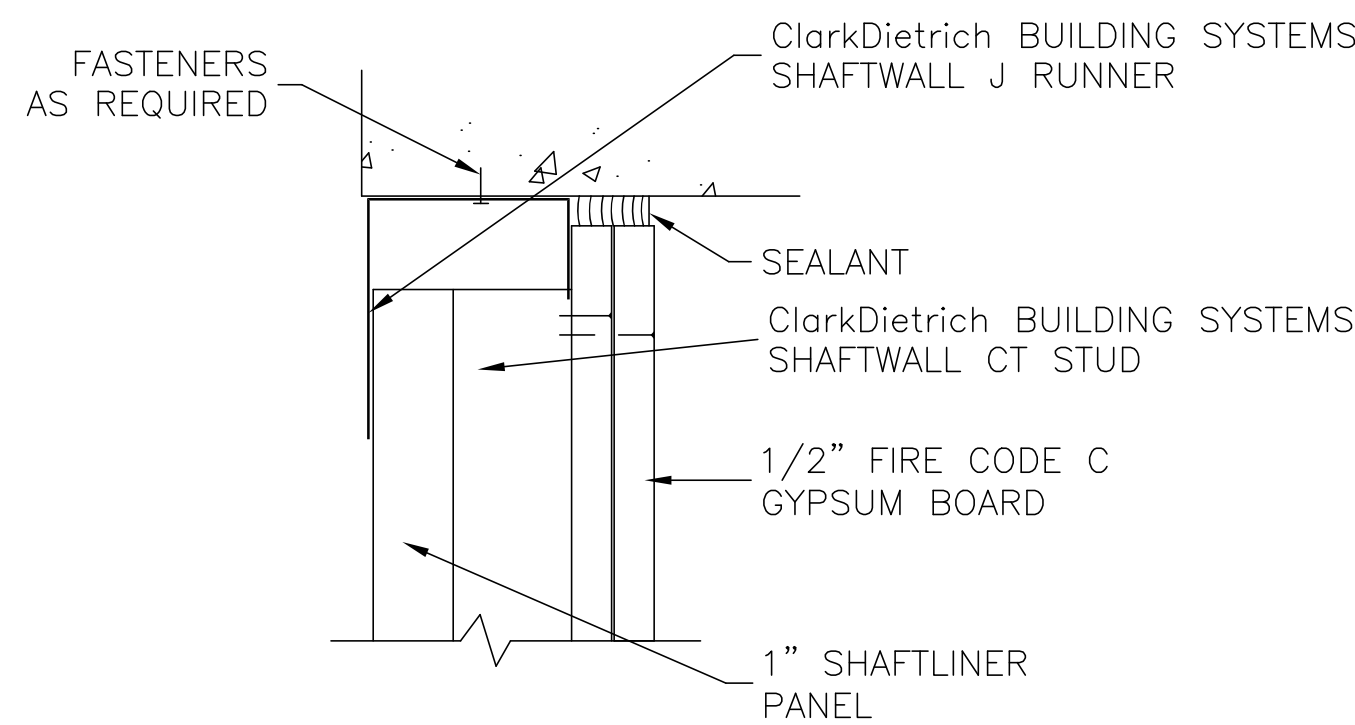
B-5
A-101 METAL STUD HEAD
SCALE : NTS

- FRAMING NOTES:**
- CT-STUDS TO BE CUT 3/4" LESS THAN THE SPAN LENGTH BETWEEN THE TOP AND BOTTOM J-TABBED TRACKS.
 - FACE LAYER OF GYPSUM BOARD MUST BE APPLIED IN THE HORIZONTAL ORIENTATION TO EACH STUD FLANGE AND INSTALLED USING MINIMUM #6 TYPE S DRYWALL SCREWS SPACED A MINIMUM OF 12" O.C. TO THE FRAMING MEMBERS. ADDITIONAL LAYER (IF REQUIRED) TO BE APPLIED VERTICALLY & OFFSET TO ENSURE THAT JOINTS WILL NOT ALIGN WITH INITIAL LAYER OF BOARD.
 - REFERENCE ClarkDietrich SHAFTWALL SYSTEM TECHNICAL CONTENT ON www.clarkdietrich.com FOR TYPICAL INSTALLATION PROCEDURES.

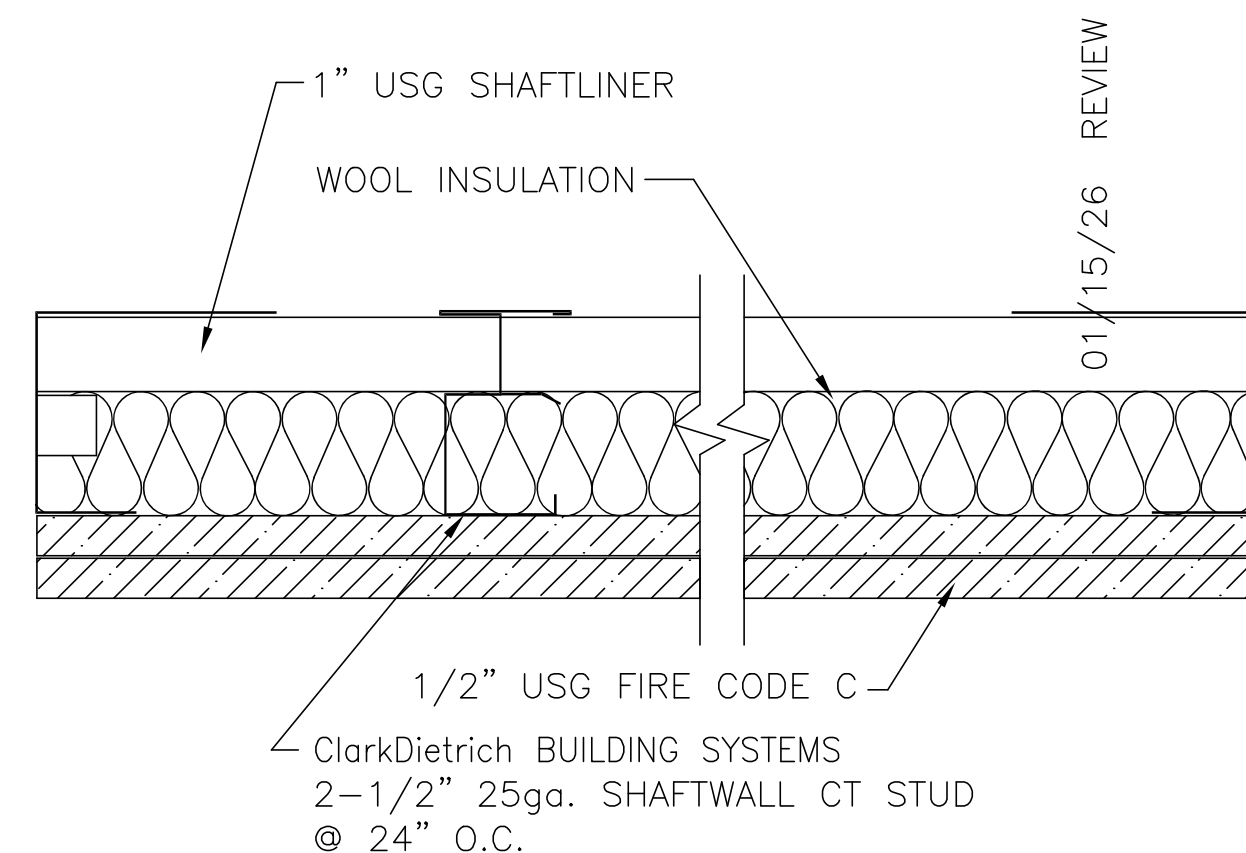
ClarkDietrich CT-STUD
SHAFTWALL FRAMING
SPACED AT 24" O.C.
SIZE AS REQUIRED
BY DESIGN



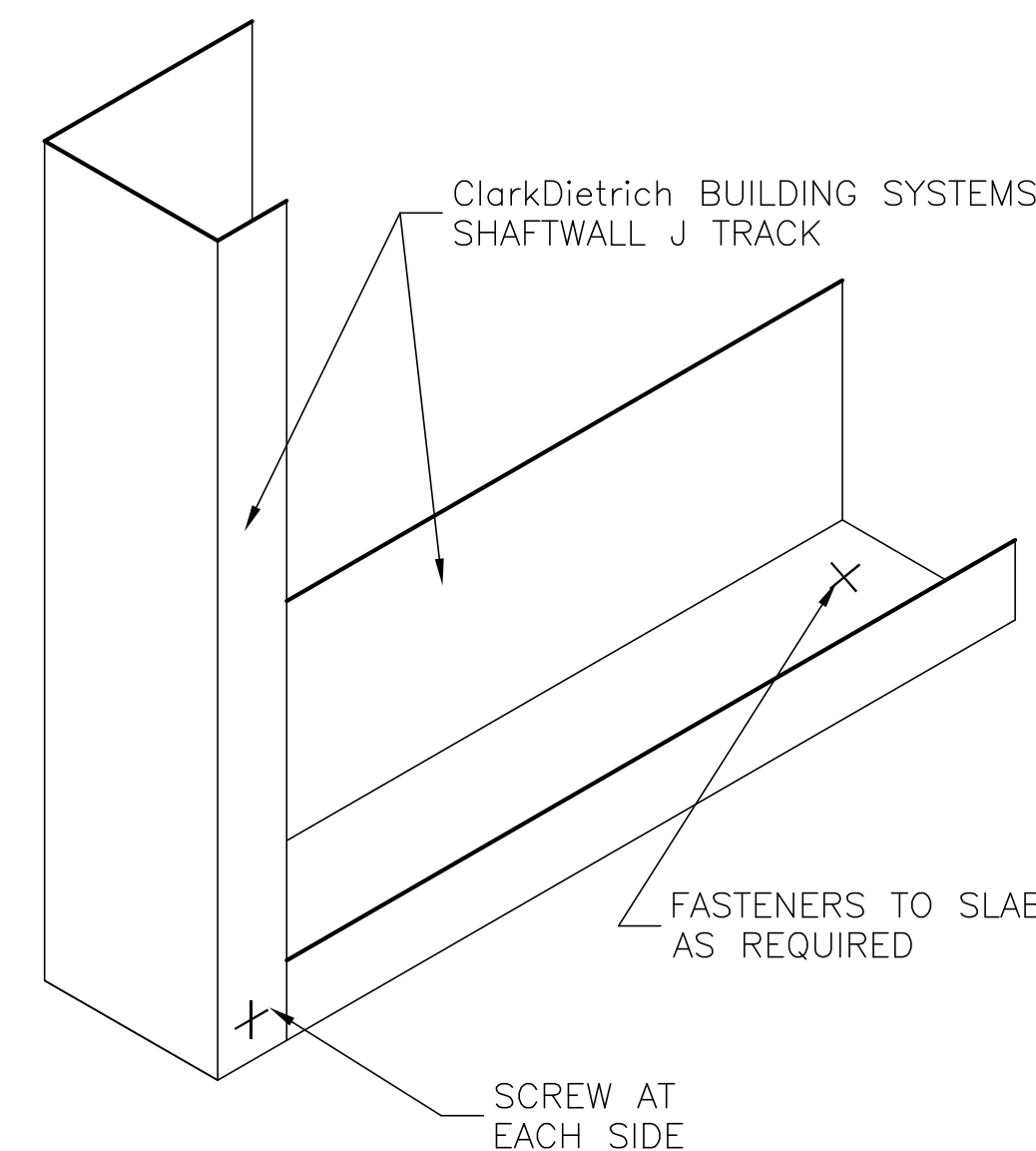
C-5
A-101 SHAFTWALL CJ
SCALE : NTS



A-6
A-101 SHAFTWALL HEAD
SCALE : NTS



B-6
A-101 SHAFTWALL SECTION
SCALE : NTS



C-6
A-101 SHAFTWALL BASE
SCALE : NTS

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CEDAR SPRINGS MICHIGAN 49319

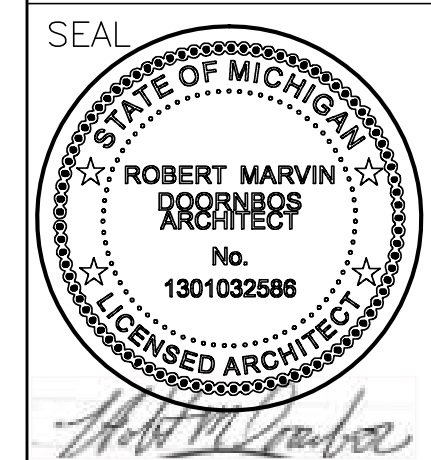


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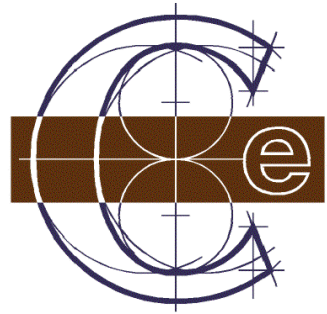
SEAL



PROJECT NUMBER
LHN 0226

SHEET NUMBER
A-301

SHEET NAME
DETAILS



Classic Engineering, LLC
100 Cesar E Chavez Ave SW
Grand Rapids, Michigan 49503
(616) 742-2810
www.classicengineering.com
Proj. #2026020

REVIEW

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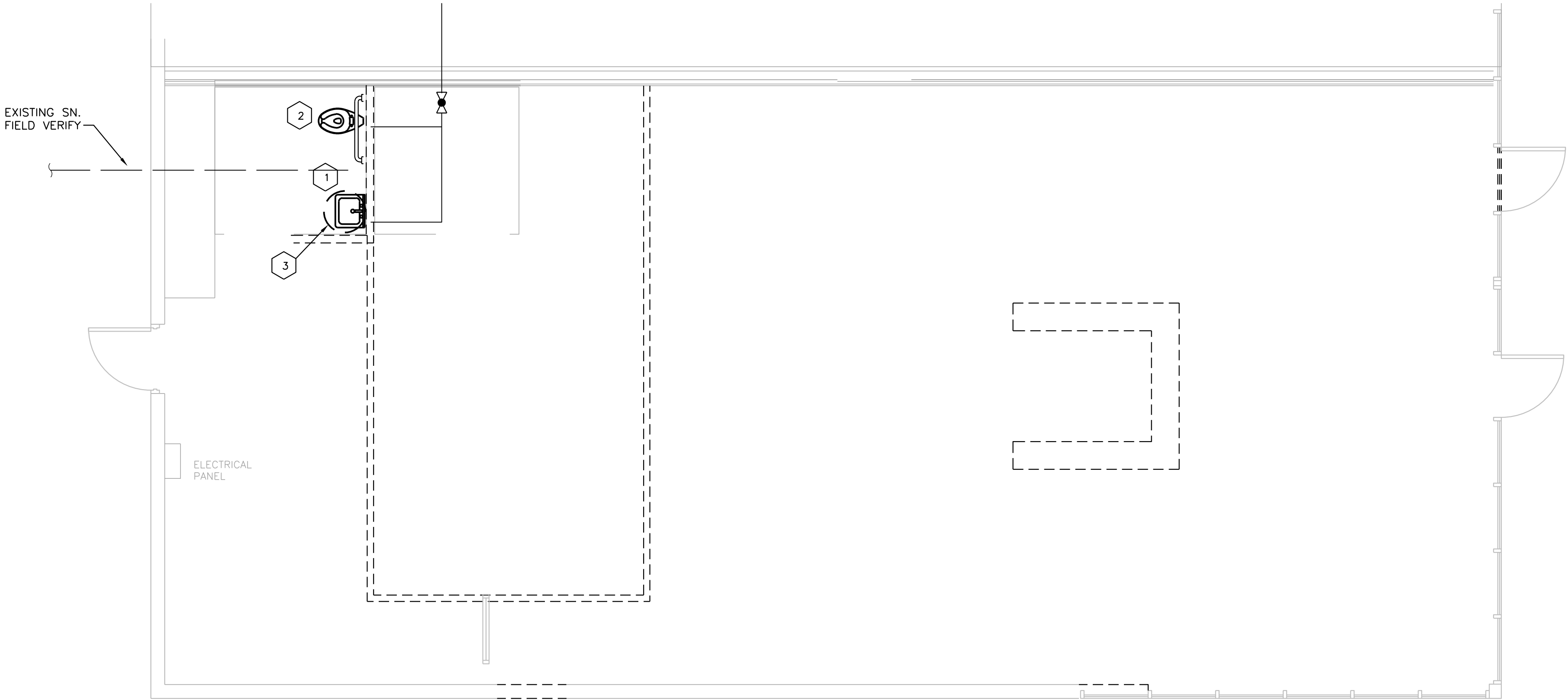
PROJECT NUMBER
PROJECT #

SHEET NUMBER
P-1

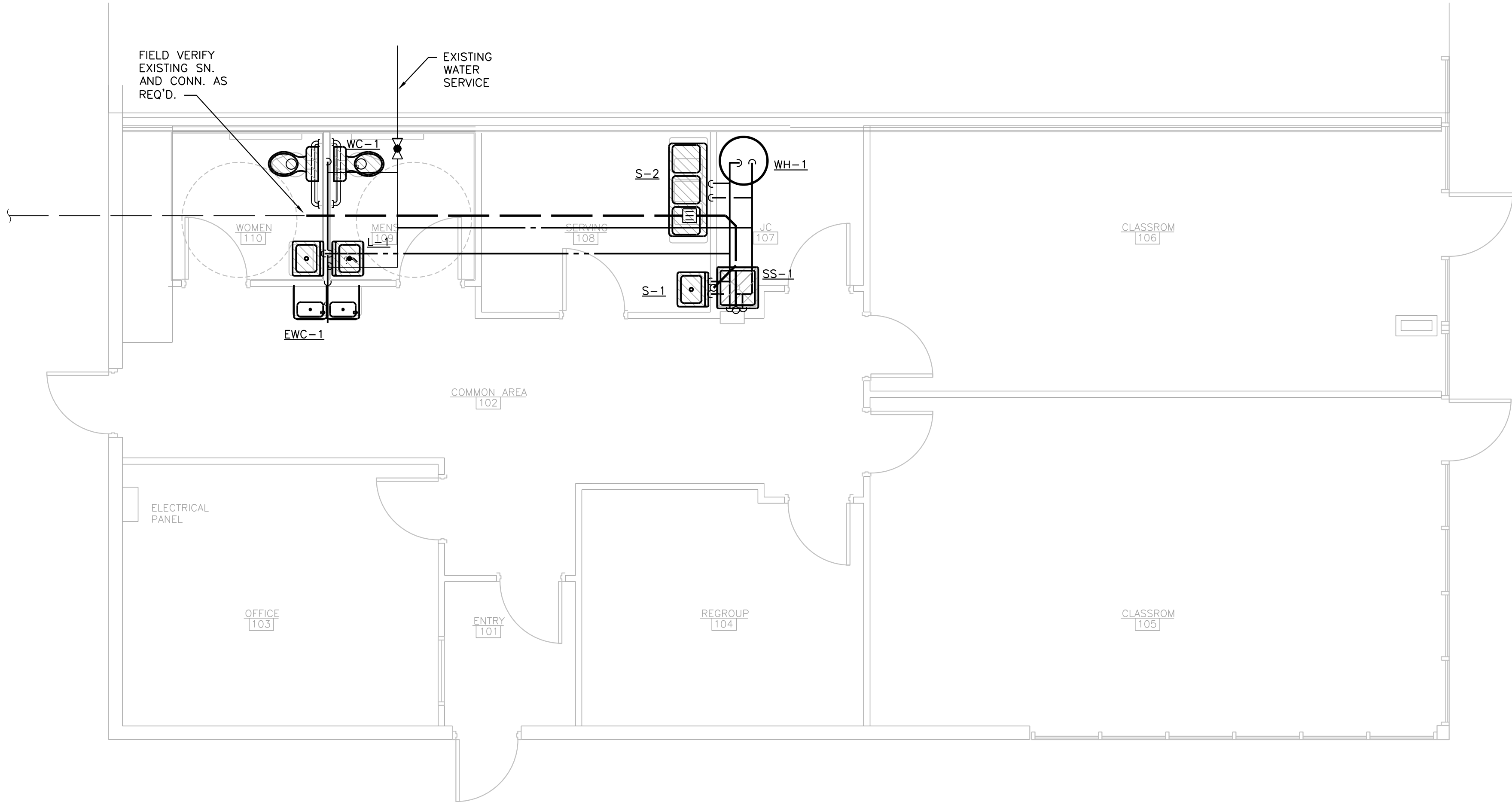
SHEET NAME
FLOOR PLANS

PLUMBING DEMO NOTES

- 1 EXISTING LAVATORY TO REMAIN.
- 2 EXISTING WATER CLOSET TO BE REMOVED AND RELOCATED TO SOUTH TO ACCOMMODATE NEW SHAFT WALL. SEE ARCH PLANS
- 3 REMOVE EXISTING WATER HEATER ABOVE CEILING. RECONNECT HOT WATER AT EXISTING LAV TO NEW PIPING SUPPLIED BY NEW WATER HEATER

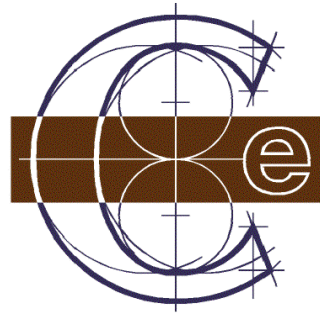


FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



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

THIS IS 6" LONG



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SHEET NUMBER
P-2

SHEET NAME
SCHEDULES

PLUMBING FIXTURE SCHEDULE						
MARK	DESCRIPTION	SAN.	C.W.	H.W.	VENT	REMARKS
FWC-1	WALL MOUNTED, TWO-LEVEL, BARRIER FREE, COOLER MODULE. FOUNTAIN SHALL BE MOUNTED TO PROVIDE AMPLE LEG ROOM AND EASY ACCESS FROM THE SITTING POSITION. HOUSING SHALL BE STAINLESS STEEL, MOTOR OVERLOAD PROTECTION, ANSI A 117.1-1992, U.L. LISTED AND ARI RATED. COOL 7.8 GPH TO 50 DEGREE F. WATER AT 90 DEGREE F. AMBIENT AND 80 DEGREE F. INLET WATER TEMPERATURE. ELKAY MODEL #LZSTL8C.	1-1/2"	1/2"	--	1-1/2"	
WC-1	FLOOR MOUNTED, VITREOUS CHINA, TANK TYPE, 16 1/2" RIM HEIGHT, ELONGATED BOWL. AMERICAN STANDARD WITH LEVER ASSEMBLY INSTALLED ON BARRIER FREE ACCESS SIDE, AND WHITE SOLID PLASTIC OPEN FRONT SEAT, LESS COVER	4"	1/2"	--	2"	
L-1	WALL MOUNTED, VITREOUS CHINA, 20"x18", FRONT OVERFLOW, 4" BACK AND 4" CENTERS. AMERICAN STANDARD LUCERNE #0355.012. PROVIDE WITH SINGLE LEVER FAUCET AND AERATOR DELTA 501-WF, 'BARRIER FREE', 3/8" LOOSE KEY OPERATED ANGLE STOPS, PERFORATED GRID DRAIN STRAINER, TRAP ASSEMBLY AND PROTECTIVE PIPE COVERS. CARRIER TO HAVE CONCEALED ARMS, LEVELING AND SECURING SCREWS JOSAM #17100. PROVIDE A TEMPERING VALVE AT ALL ACCESSIBLE HANDWASHING FIXTURES THAT CONFORMS TO ASSE 1070.	1-1/2"	1/2"	1/2"	1-1/2"	
SS-1	FLOOR MOUNTED, PRECAST, ONE PIECE MOLDED STONE WITH BUMPER GUARD ON TWO SIDES. 24"x24"x10" FIAT #MSB-2424. PROVIDE WITH WALL MOUNTED COMBINATION FITTING WITH INTEGRAL STOPS, VACUUM BREAKER, WALL BRACE, PAIL HOOK, MOP HANGER, HOSE AND HOSE BRACKET, AND WALL MOUNTED SERVICE FAUCET.	3"	3/4"	3/4"	1-1/2"	
WH-1	AO SMITH ELECTRIC TANK TYPE WATER HEATER, 75 GALLON	--	3/4"	--	--	
S-1	WALL MOUNTED, SEAMLESS STAINLESS STEEL, 18 GAUGE, ELKAY #ELV2219SACMC WITH 22"x19"x5-1/2" BOWL. PROVIDE WITH GOOSENECK SENSOR FAUCET ELKAY #LKB721C, SWING SPOUT WITH AERATOR, 3/8" LOOSE KEY ANGLE STOPS, (2) 3-1/2" BASKET STRAINER ELKAY #LK35, 1 1/2" TAILPIECE AND 1 1/2" P-TRAP.	1-1/2"	1/2"	1/2"	1-1/2"	
S-2	FLOOR MOUNTED STAINLESS STEEL, 16 GUAGE, ELKAY #RNSF83724 WITH 85-1/2" X 29-3/4" X 12-3/4" TRIPLE COMPARTMENT SINK. PROVIDE WITH KINGSTON BRASS #GS1271AL DECK MOUNTED PULL DOWN DOUBLE HANDLE KITCHEN FAUCET 1.8 GPM.	1-1/2"	1/2"	1/2"	1-1/2"	

1. 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.

2. 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.

3. ALL PLUMBING VENTS THROUGH THE ROOF TO BE INSTALLED A MINIMUM OF 10'-0" AWAY FROM ALL FRESH AIR INTAKE OPENINGS.

4. DO NOT INSTALL ANY PIPING AROUND ELECTRICAL EQUIPMENT TO INSURE ALL CODE REQUIRED CLEARANCES. SEE ELECTRICAL PLANS FOR THESE LOCATIONS.

5. REFER TO MINIMUM SIZE CONNECTION SCHEDULE FOR ALL PLUMBING FIXTURES BRANCH PIPING SIZES.

6. 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.

7. PROVIDE A TEMPERING VALVE AT ALL ACCESSIBLE HANDWASHING FIXTURES THAT CONFORMS TO ASSE 1070.

8. ALL DOMESTIC PIPING TO BE TYPE 'L' COPPER, INSULATED WITH FOAM PER ENERGY CODE. ALL PIPE INSULATION TO BE UPDATED

9. ALL SANITARY PIPING TO BE SCHEDULE 40 PVC.

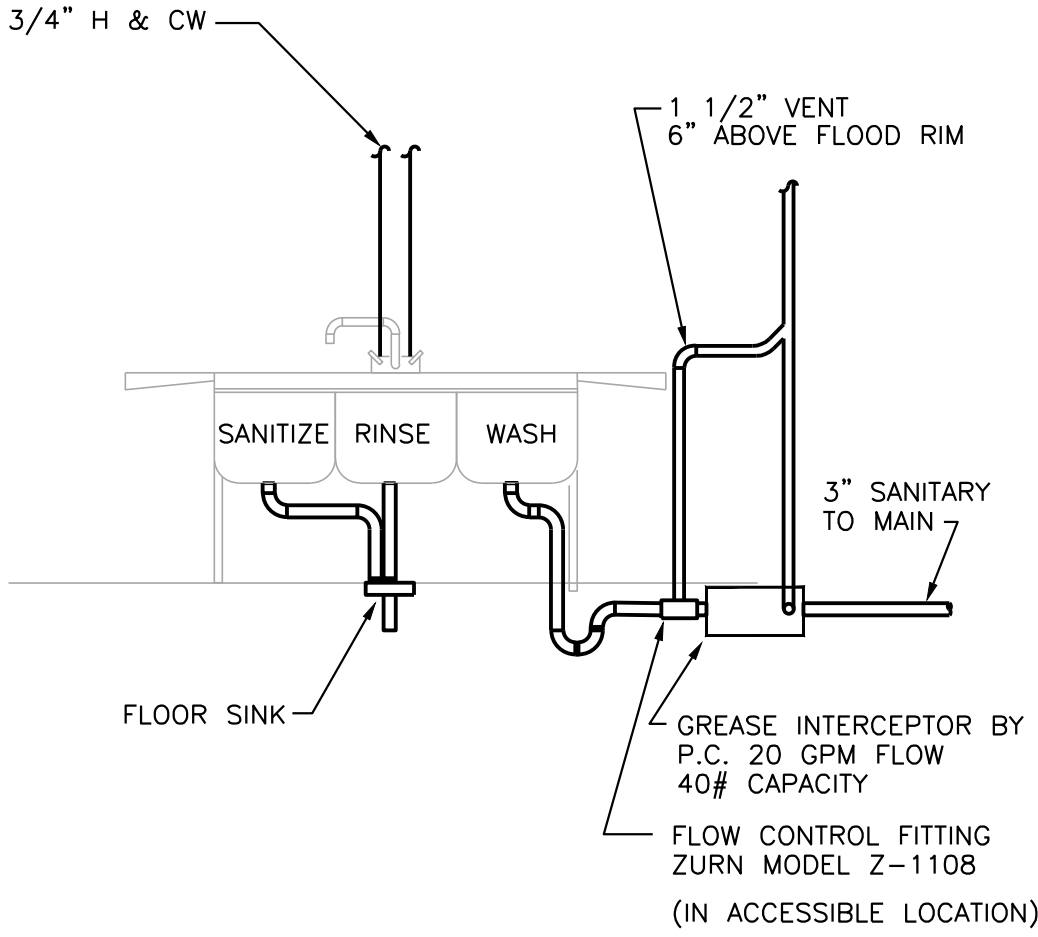
10. VENTING SHALL BE INSTALLED IN ACCORDANCE WITH CODE

PLUMBING NOTES

HOT WATER REQUIREMENTS				
FIXTURE	QUANTITY		GPH	TOTAL
LAVATORY	2	X	5	= 10
HAND SINK	1	X	5	= 5
MOP SINK	1	X	5	= 5
3-COMP SINK	1	X	45	= 45

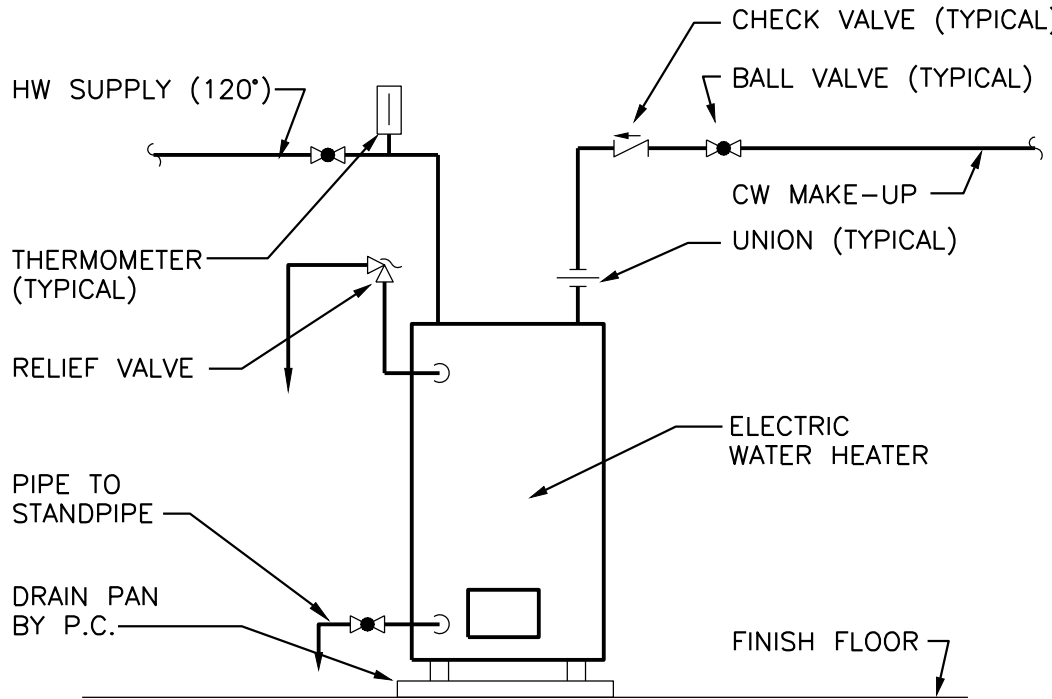
TOTAL REQUIRED = 65

TOTAL PROVIDED = 75

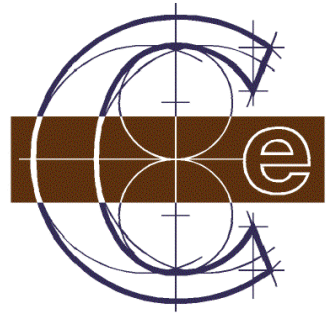


3-COMPARTMENT SINK PIPING DETAIL
NOT TO SCALE

55 GALLON, 6000W, 208V, ELECTRIC WATER HEATER, GLASS LINED TANK, 3/4" RELIEF VALVE. ENTIRE HEATER SHALL BE FURNISHED WITH ALL NECESSARY OPERATING AND SAFETY CONTROLS, AO SMITH MODEL HETF-55, 75 GALLON FIRST HOUR RATING, 25 GPH RECOVERY



ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



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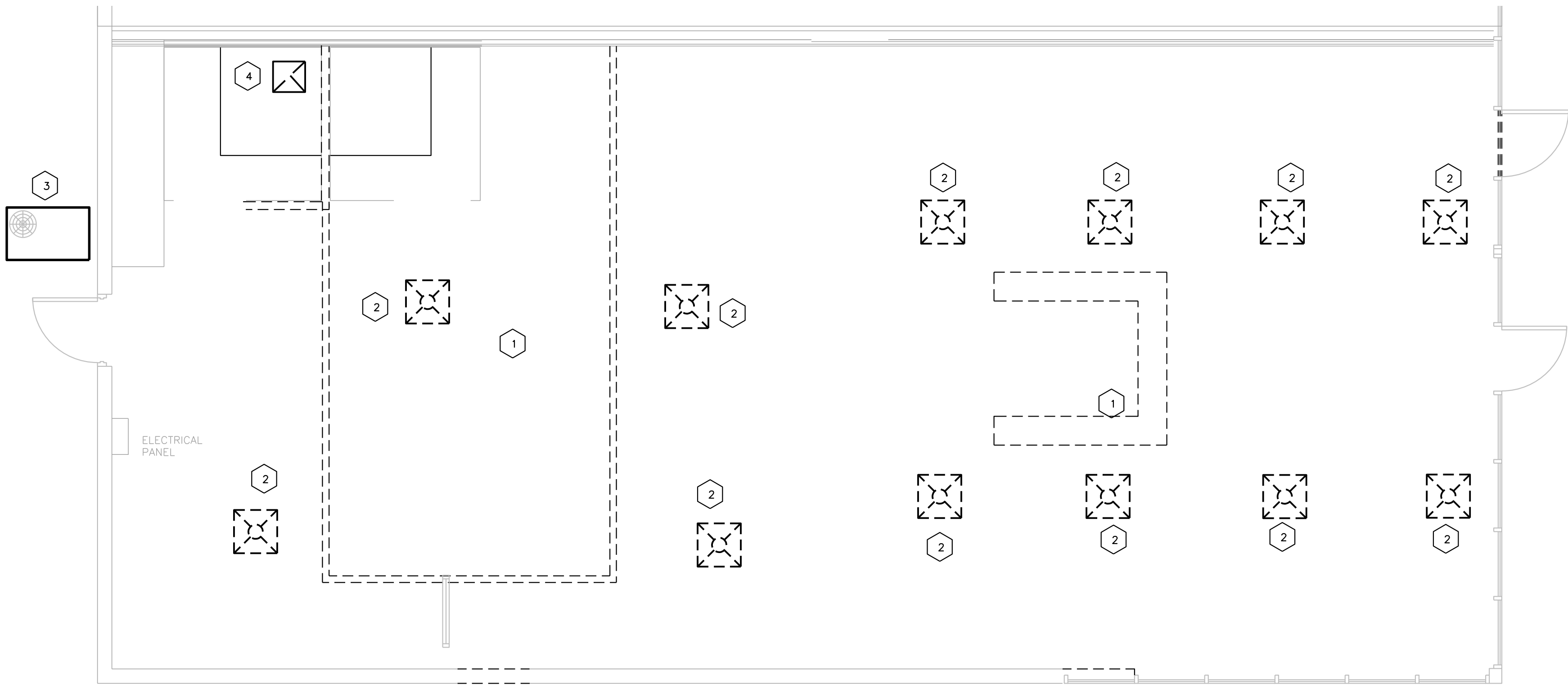
PROJECT NUMBER
PROJECT #

SHEET NUMBER
M-1

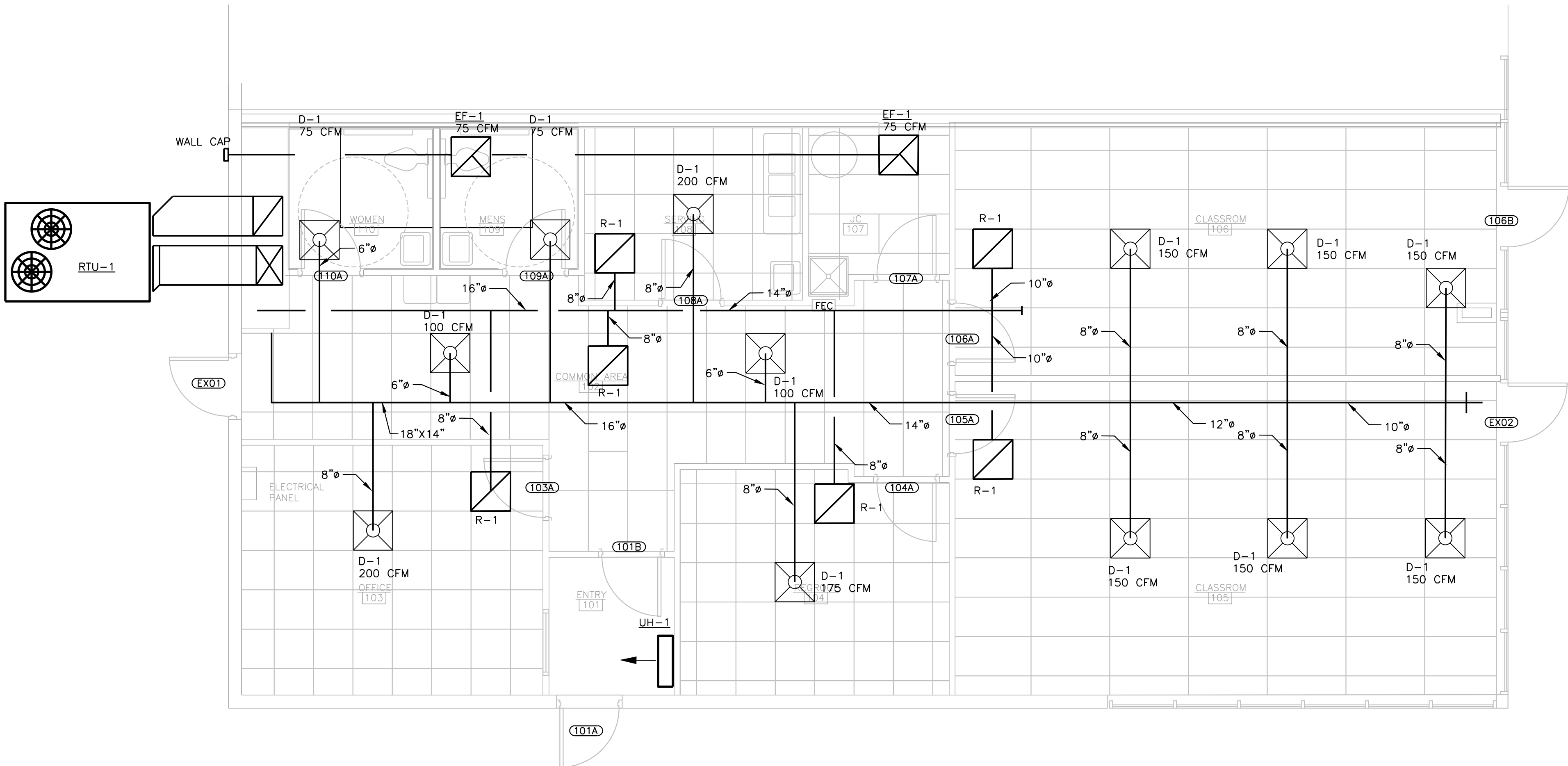
SHEET NAME
FLOOR PLANS

HVAC DEMO NOTES

- 1 REMOVE AND DISPOSE OF EXISTING DUCTWORK.
- 2 EXISTING SUPPLY DIFFUSERS TO REMAIN. REMOVE, CLEAN, AND STORE EXISTING SUPPLY DIFFUSERS FOR RE-INSTALLATION.
- 3 EXISTING RTU TO BE REMOVED AND DISPOSED OF.
- 4 EXISTING EXHAUST FAN TO REMAIN. RELOCATE AS REQUIRED.



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



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

THIS IS 6" LONG

+

+

Don't Mess With The Plan

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE MECHANICAL CODE ENFORCED IN THIS AREA, INCLUDING ALL STATE AND LOCAL AMENDMENTS. ARRANGE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED.
2. COORDINATE THE ENTIRE MECHANICAL SYSTEM INSTALLATION WITH OTHER BUILDING COMPONENTS (ELECTRICAL, PLUMBING, STRUCTURAL, FIRE PROTECTION, ETC.).
3. PROVIDE ALL VALVES, DAMPERS AND CONTROL DEVICES REQUIRED TO COMPLETE BALANCING OF SYSTEMS. IT SHALL BE UNDERSTOOD THAT ALL SYSTEMS INSTALLED SHALL COMPLY WITH INDUSTRY RECOGNIZED STANDARDS AND FEATURES. PROVIDE (3) SETS OF AIR AND WATER BALANCE REPORTS TO THE OWNER AT THE END OF THE PROJECT.
4. INSTALL SYSTEMS, MATERIAL AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE AND REPAIR.
5. INSTALL SYSTEMS, MATERIAL AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY PROTECTING ANY PENETRATIONS OF A FIRE RATED ASSEMBLY. FIRE SEAL, CAULKING AND APPURTENANCES SHALL BE UL LISTED FOR THE ASSEMBLY RATING IT IS APPLIED TO AND SHALL BE INSTALLED PER THE MANUFACTURERS WRITTEN INSTRUCTIONS. ALL SUCH MATERIAL SHALL MEET STATE, LOCAL AND AUTHORITIES CODES AND STANDARDS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED ASSEMBLY LOCATIONS AND RATINGS.
7. PENETRATIONS ARE PROHIBITED IN ANY STRUCTURAL MEMBERS (EXCEPT WHERE NOTED IN DRAWINGS) WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER.
8. EXCEPT WHERE NOTED, ALL DUCTWORK TO BE GALVANIZED STEEL, CONSTRUCTED AND INSTALLED ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE".
9. FABRIC DUCT SHALL BE INSTALLED AND SUPPORTED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
10. COORDINATE DIFFUSER, REGISTER OR GRILLE LAYOUT WITH OTHER CEILING COMPONENTS (LIGHTS, FIRE PROTECTION SPRINKLERS, SPEAKERS, SENSORS, ETC.).
11. ALL DUCT ELBOWS TO HAVE A CENTERLINE RADIUS OF 1.5 TIMES THE DIAMETER OF THE DUCT. SQUARE ELBOWS SHALL HAVE TURNING VANES.
12. WHERE INTERIOR OF DUCT IS VISIBLE THROUGH GRILLES, REGISTERS OR DIFFUSERS, PAINT INSIDE OF DUCT WITH FLAT BLACK PAINT.
13. INSTALL FLEXIBLE CONNECTORS IMMEDIATELY ADJACENT TO EQUIPMENT IN DUCTS ASSOCIATED WITH FANS AND MOTORIZED EQUIPMENT SUPPORTED BY VIBRATION ISOLATORS.
14. ALL EQUIPMENT, DUCTWORK, PIPING AND MATERIAL INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
15. CLEARLY LABEL ALL PIPING REGARDING USE AND DIRECTION OF FLOW.
16. COORDINATE REQUIREMENTS FOR ACCESS PANELS AND DOORS WHERE MECHANICAL ITEMS REQUIRING ACCESS ARE CONCEALED BEHIND FINISHED SURFACES. THIS CONTRACTOR SHALL PROVIDE ACCESS PANELS OR DOORS OF SUFFICIENT SIZE TO ALLOW ACCESS TO THEIR WORK. ACCESS DOORS OR PANELS TO BE INSTALLED BY THE GENERAL CONTRACTOR.
17. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EXPOSED SOFT COPPER REFRIGERANT PIPING SHALL BE PROTECTED FROM POTENTIAL DAMAGE.
18. CONTRACTOR HAS SOLE RESPONSIBILITY TO COORDINATE ANY SUBSTITUTIONS WITH ALL OTHER DISCIPLINES. EQUIPMENT OF GREATER POWER, DIMENSIONS, CAPACITIES, AND RATINGS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT CONNECTING MECHANICAL AND ELECTRICAL SERVICES; CIRCUIT BREAKERS, CONDUIT, MOTORS, BASES AND EQUIPMENT SPACES ARE INCREASED. NO ADDITIONAL COSTS WILL BE APPROVED FOR THESE INCREASES.
19. PROVIDE ALL NECESSARY FLASHING, SEALING, ETC. TO MAINTAIN THE WATERPROOF INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF ITEMS AS REQUIRED BY THIS SCOPE OF WORK.
20. CONTRACTOR TO GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
21. PROVIDE (3) SETS OF OPERATION AND MAINTENANCE MANUALS TO THE OWNER. THESE ARE TO INCLUDE ALL EQUIPMENT CUT-SHEETS, MANUFACTURERS RECOMMENDED MAINTENANCE PROCEDURES, MANUFACTURERS WARRANTY INFORMATION AND CONTRACTORS WARRANTY LETTER AND CONTACT INFORMATION.
22. THIS CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER FOR THEIR WORK ON THE ENTIRE PROJECT.
23. PROVIDE UV PROTECTIVE COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.
24. PROVIDE CLOSED-CELL ELASTOMERIC INSULATION ON ALL METAL CONDENSATE DRAIN PIPES.

ASHRAE STANDARD 62.1-2019 VENTILATION REQUIREMENTS SCHEDULE

ZONE NAME	ROOM NAME	FLOOR AREA	REQUIRED O.A. (CFM/SQ.FT.) (Ras)	POPULATION OF AREA SERVED (Ps)	REQUIRED O.A. (CFM/PERSON) (Rps)	AIR DISTRIBUTION EFFECTIVENESS (Ez)	VENTILATION SYSTEM EFF. (Ev)	REQUIRED OUTSIDE AIR (Vol)	DESIGN OUTSIDE AIR	REMARKS
RTU-1	ENTRY 101	44	0.06	2	--	0.80	0.98	3	5	①
RTU-1	COMMON AREA 102	330	0.06	5	--	0.80	0.98	20	20	①
RTU-1	OFFICE 103	190	0.06	2	5	0.80	0.98	25	25	①
RTU-1	REGROUP 104	155	0.06	15	7.5	0.80	0.98	122	125	①
RTU-1	CLASSROOM 105	422	0.12	18	10	0.80	0.98	230	230	①
RTU-1	CLASSROOM 106	352	0.12	25	10	0.80	0.98	292	300	①
RTU-1	SERVING 108	100	0.06	2	5	0.80	0.98	15	15	①

① MAXIMUM QUANTITIES LISTED PER TABLE 403.3 IN THE 2021 MICHIGAN MECHANICAL CODE.

GAS FIRED PACKAGED ROOFTOP UNIT SCHEDULE

MARK	LOCATION	MODEL	TOTAL CFM	OUTSIDE AIR CFM	EXT. S.P.	SAF HP	HTG. MBH IN/OUT	COOLING TOT/SEN	VOLTAGE	UNIT WIRING MCA MOCP	REMARKS
RTU-1	ROOF	48FEEM08	3,000	750	0.50	2	180/148	90/68.9	208V-3ph	43 50	7.5 TON ①

① BASED ON CARRIER, R454B REFRIGERANT WITH FUSED DISCONNECT AND CONVENIENCE OUTLET
ULTRA LOW LEAK ECONOMIZER W/BAROMETRIC RELIEF, 2-SPEED INDOOR FAN MOTOR,
SMOKE DETECTOR FURNISHED AND INSTALLED BY E.C.

ELECTRIC CABINET UNIT HEATER SCHEDULE

MARK	LOCATION	MODEL	CFM	HEATING KW	FAN SPEED	RPM	VOLT	REMARKS
UH-1	SEE PLANS	UHW- 031A2AT	230	3.0	HIGH	---	208v-1ph	①

① BASED ON TRANE

FAN SCHEDULE

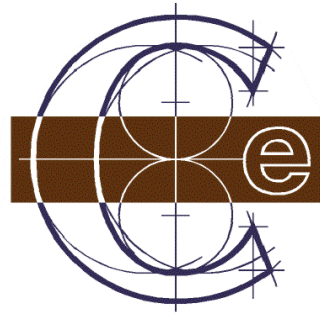
MARK	SERVICE	MODEL	CFM	S.P.	HP/ WATTS/	RPM	WEIGHT	SONES	VOLTAGE	REMARKS
EF-1	EXHAUST FAN	SP-A390	75	.25	14W	973	24	2.5	208/60/1	①

① BASED ON GREENHECK

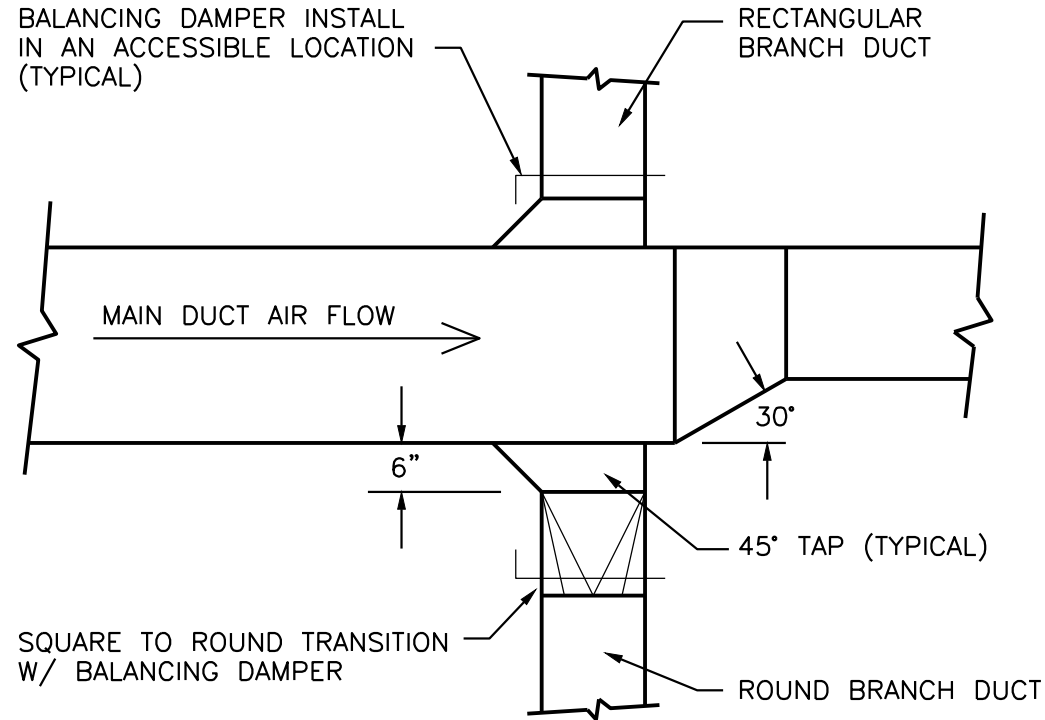
GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	SERVICE	MODEL	VOLUME DAMPER	FINISH	REMARKS
R-1	RETURN GRILLE	80 EGG CRATE	----	OFF WHITE	24"X24" ①
D-1	SUPPLY DIFFUSER	SCD	----	OFF WHITE	24"X24" ①

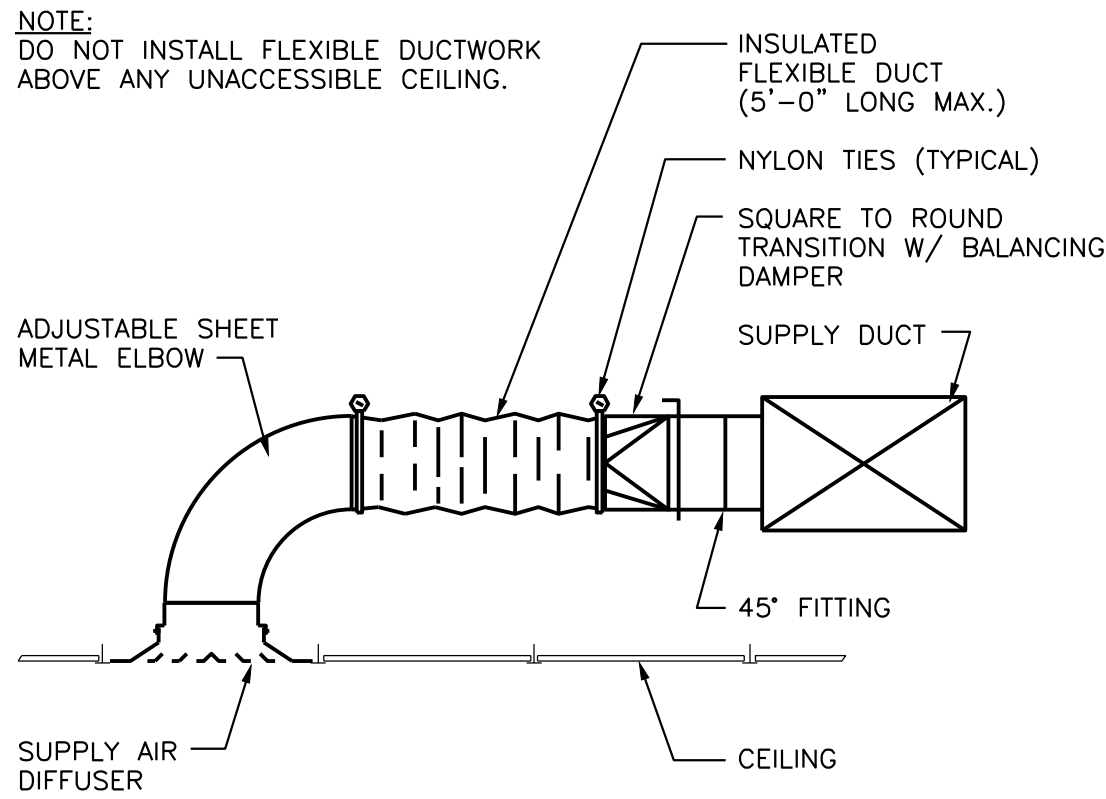
① BASED ON PRICE



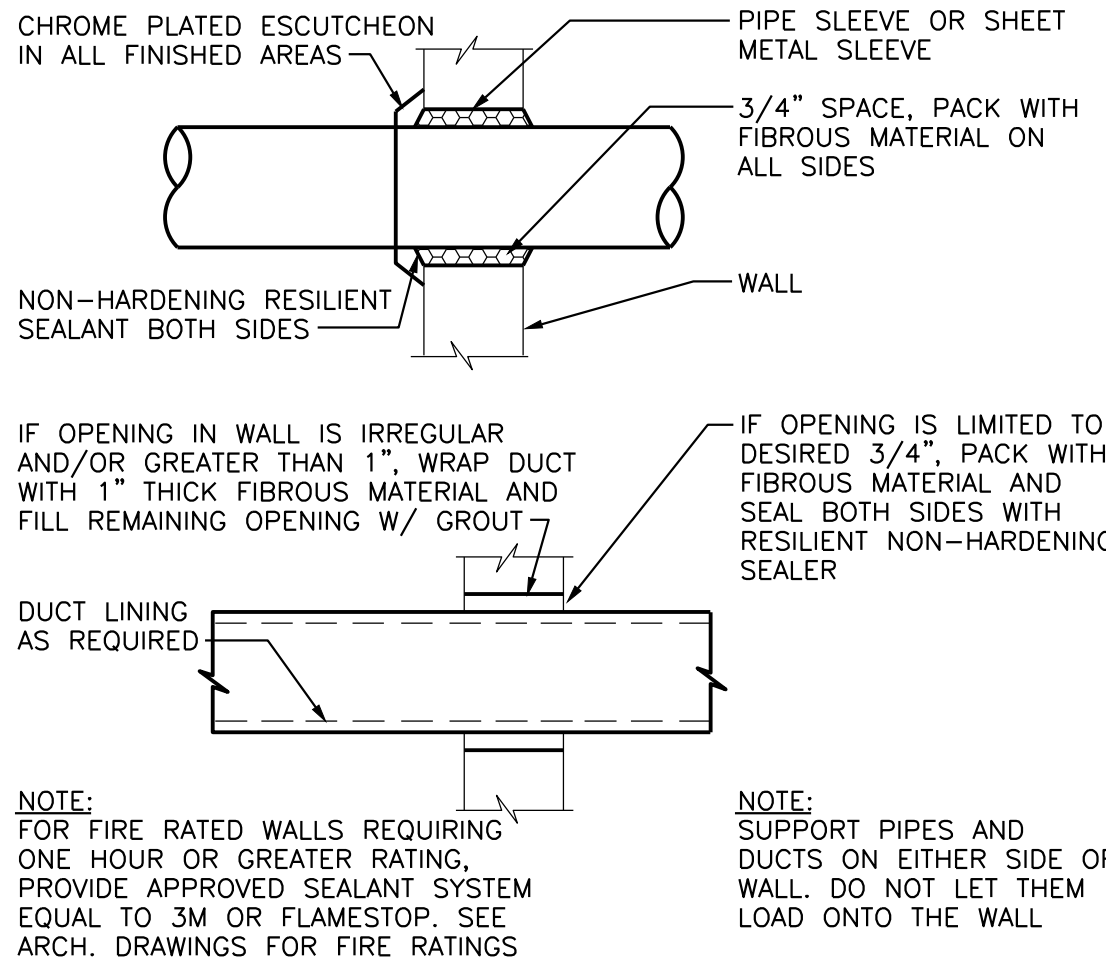
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TYPICAL BRANCH TAKE-OFF DETAIL
NOT TO SCALE



CEILING DIFFUSER INSTALLATION DETAIL
NOT TO SCALE



WALL PENETRATION DETAIL
NOT TO SCALE

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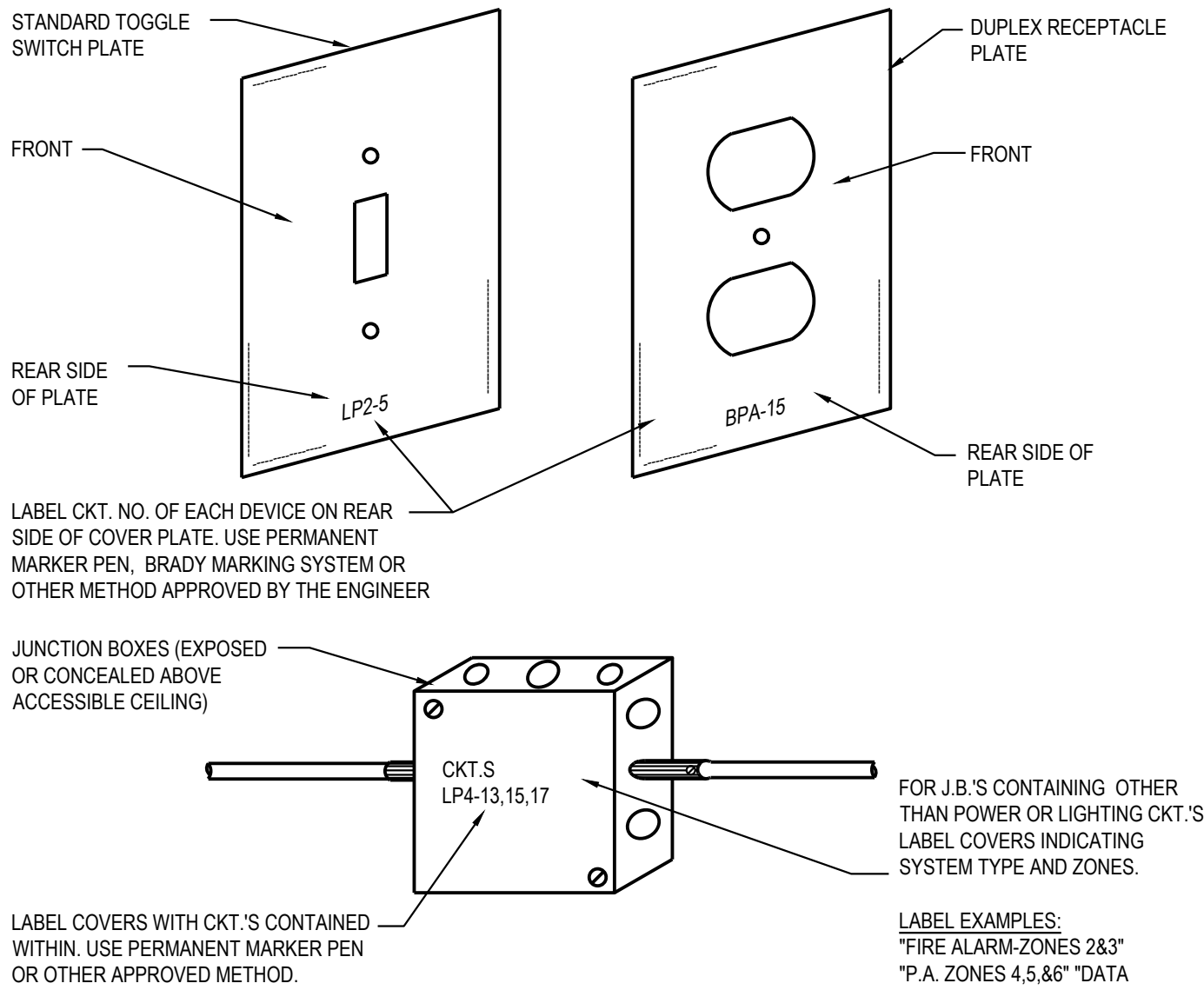
SHEET NAME
SCHEDULES

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MTG. HT. TO Ⓖ
S S3	SINGLE POLE OR 3-WAY SWITCH- SPECIFICATION GRADE	46"
S4	FOUR WAY SWITCH-SPEC. GRADE	46"
SK	KEY OPERATED SWITCH-SPEC. GRADE	46"
SD	DIMMER SWITCH	46"
SIR	IR SWITCH	46"
SIRD	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	---
PP	POWER PACK	---
C	SPLIT WIRED RECEPTACLE C- DENOTES CONTROLLED VIA RELAY OR OCC SENSOR	18"
WR	WATER RESISTANT GROUND FAULT CIRCUIT INTERRUPTER WR-DENOTES WEATHERPROOF WHILE IN USE COVER	18"
Ⓢ	DUPLEX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL= CEILING MOUNTED	18"
Ⓢ	(2) DUPLEX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL= CEILING MOUNTED	18"
Ⓢ	SPECIAL SINGLE RECEPTACLE	18"
Ⓢ	SPECIAL OUTLET-CHARACTERISTICS AS NOTED ON PLANS	AS NOTED
EV	E.V. CHARGER F= FUTURE	---
▽	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"
Ⓢ	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"
▽	TELEPHONE OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER. 1-1/4" C. UP WALL TO CLG. SPACE	18"
▽	TELEPHONE/DATA OUTLET-4" SQ. BOX W/ 1 GANG RAISED COVER. 1-1/4" C. UP WALL TO CLG. SPACE	18"
△WN	WIRELESS ROUTER CIRCLE AROUND SYMBOL= CEILING MOUNTED	---
Ⓢ	FLOOR BOX 2 RECEPT. 2 DATA -THOMAS & BETTS-# 665-SC 1-1/4" C TO FLOORBOX FOR DATA	---
Ⓢ	FLOOR BOX 1 RECEPT. 1 DATA - THOMAS & BETTS-# 664-SC 1-1/4" C TO FLOORBOX FOR DATA	---
TV	JUNCTION BOX - HUBBELL NSA62M WITH RECEPTACLE KIT HUBBELL NSGKP. PROVIDE CONNECTOR PLATE FOR A/V	AS NOTED
Ⓢ	JUNCTION BOX 4" SQ. BOX W/ 2 GANG RAISED COVER. 1" C. UP WALL TO CLG. SPACE UNLESS OTHERWISE NOTED	AS NOTED
Ⓢ	POWER POLE - SEE DRAWING FOR POWER - POWER/DATA SPECIFICATIONS	---
Ⓢ	ELECTRIC UTILITY METER	---
Ⓢ	FUSED DISCONNECT SWITCH- FDS-HEAVY DUTY	46"
Ⓢ	NON-FUSED DISCONNECT SWITCH- NFDS-HEAVY DUTY	46"
Ⓢ	SW. AND PLUG/FUSE HOLDER- BUSSMANN "SSJ" & FUSE/STAT FUSE	AT EQUIP.
Ⓢ	MAGNETIC MOTOR STARTER-MS	46"
Ⓢ	COMBINATION MAG. STARTER/ FUSED DISC. SWITCH - CS/FDS	46"
Ⓢ	COMBINATION MAG. STARTER/NON-FUSED DISC. SWITCH - CS/NFDS	46"
VFD	VARIABLE FREQUENCY DRIVE	---
Ⓢ	SINGLE PHASE ELECTRIC MOTOR	---
Ⓢ	THREE PHASE ELECTRIC MOTOR	---
Ⓢ	SURFACE OR FLUSH MTD. BRANCH CIRCUIT PANELBOARD	72" TO TOP
Ⓢ	TRANSFORMER	---
Ⓢ	PUSH BUTTON	46"
Ⓢ	THERMOSTAT. E.C TO ROUGH-IN SINGLE GANG BOX AND 1/2" C. TO ACCESSIBLE CEILING SPACE.	46"
Ⓢ	HUMIDISTAT. E.C TO ROUGH-IN SINGLE GANG BOX AND 1/2" C. TO ACCESSIBLE CEILING SPACE.	46"
Ⓢ	RECESSED DOWNLIGHT LUMINAIRE	---
Ⓢ	RECESSED WALLWASH LUMINAIRE	---
Ⓢ	SURFACE LUMINAIRE	---
Ⓢ	PENDANT LUMINAIRE	---
Ⓢ	WALL MOUNTED LUMINAIRE	---
Ⓢ	SITE LIGHTING LUMINAIRE	---
Ⓢ	NIGHT LIGHT	---
Ⓢ	STRIP LUMINAIRE	---
Ⓢ	LED ACCENT/UNDER CABINET LUMINAIRE	---
Ⓢ	RECESSED LUMINAIRE 2x4' OR 2x2'	---
Ⓢ	SURFACE LUMINAIRE 2x4' OR 2x2'	---
Ⓢ	TRACK LIGHTING LUMINAIRE	---
Ⓢ	PARTIALLY SHADED LUMINAIRE OR WITH "E" SUFFIX ARE EMERGENCY	---
Ⓢ	EXIT SIGN - WALL MOUNTED OR CEILING MOUNTED ARROWS INDICATE PATH OF EGRESS	---
Ⓢ	REMOTE EMERGENCY HEAD	---
Ⓢ	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.

SYSTEMS SYMBOL LEGEND		
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	SMOKE/HORN 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.&Y 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	---
Ⓢ	CEILING SPEAKER	---
Ⓢ	CARD READER	46"
Ⓢ	SECURITY DOOR CONTACT	AT DOOR HEAD
Ⓢ	SECURITY INTERCOM	46"
Ⓢ	SECURITY CAMERA - "W" DENOTES WALL MOUNTED CHEVRON INDICATES AIM LINE	TYPICALLY CLG MOUNTED
Ⓢ	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
E100
N.T.S.

ELECTRICAL IDENTIFICATION

ELECTRICAL SPECIFICATIONS

26-0500 GENERAL PROVISIONS

- FURNISH AND INSTALL FIRST-CLASS WORKING SYSTEMS, TESTED AND READY FOR OPERATION, COMPLETE WITH LABOR AND MATERIALS (U.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 2023, 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.
- SUBMITTALS FOR SWITCHGEAR, LIGHT FIXTURES, LIGHTING CONTROL AND FIRE ALARM ARE REQUIRED PRIOR TO RELEASE OF EQUIPMENT. REQUEST FOR SUBSTITUTION IS REQUIRED 7 WORKING DAYS FOR ENGINEER'S REVIEW.

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 THHN OR THW. ALUMINUM SHALL BE PERMITTED FOR SERVICE ENTRANCE AND PANEL FEEDS. BRANCH CIRCUIT WIRING SHALL BE COPPER.

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 s251-1, OR EQUAL BY HUBBEL, 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 HUBBEL, 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.

26-5113 LIGHTING

- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND/OR INSTALL ALL FIXTURES WITH LAMPS, AS SHOWN ON THE DRAWINGS AND AS LISTED IN THE FIXTURE LEGEND. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ADEQUATE SUPPORTING FACILITIES FOR THE LIGHTING SYSTEM.
- WHERE RECESSED FIXTURES ARE INSTALLED IN CEILINGS FINISHED IN ACOUSTICAL TILE PATTERNS OR LAYOUTS, THE ELECTRICAL CONTRACTOR SHALL WORK IN COOPERATION WITH THE CEILING SUPPLIERS IN LOCATING AND FRAMING FIXTURES.
- WHERE LIGHTING FIXTURES ARE INSTALLED IN OTHER CEILINGS, VERIFY ANY ADDITIONAL REQUIREMENTS FOR THE INSTALLATION OF THE FIXTURES (i.e. FIRE RATING, PLASTER TRIM, ETC.).
- EXIT LIGHT FIXTURES SHALL BE SUITABLE FOR WALL, CEILING FOR PENDANT MOUNTING AS INDICATED, WITH STENCIL FACES AND ONE-EIGHTH INCH THICK RED (OR GREEN PER ARCHITECT OR OWNER) ACRYLIC PANELS, WITH LED LAMPS AND BATTERY PACKS SHOWN IN THE LIGHTING FIXTURE LEGEND.
- LAMPS TO BE AS SHOWN IN THE LIGHTING FIXTURE LEGEND.
- EMERGENCY LIGHTING REQUIREMENTS SHALL BE INSTALLED TO SATISFY THE RESPECTIVE CODES, INCLUDING INTERNATIONAL BUILDING CODE (i.e. 1FC AVERAGE, .6 FC MINIMUM AND 40:1 RATIO OF MAX TO MIN), PHOTOMETRICS, NOT PROVIDED ON THE BID DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE FINAL BID PROPOSAL -- BY EC, SUPPLIER OR ENGINEER.

26-0528 SYSTEMS

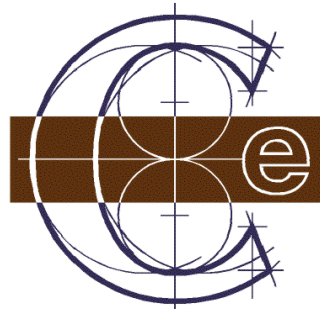
- WORK REQUIRED UNDER THIS HEADING INCLUDES THE COMPLETE INSTALLATION, SETUP, AND TESTING OF ALL SYSTEMS, WHICH ARE A PERMANENT PART OF THE BUILDING. THESE SYSTEMS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE TELEPHONE, DATA AND FIRE ALARM SYSTEMS. THE CONTRACTOR AND /OR HIS SUB-CONTRACTOR(S) SHALL PROVIDE MINIMUM INSTRUCTIONS, FOR EACH SYSTEM THE EC IS RESPONSIBLE FOR, TO THE OWNER.
- IT ALSO INCLUDES THE INSTALLATION OF CONDUIT SYSTEMS FOR EQUIPMENT NOT BELONGING TO THE OWNER BUT INSTALLED AND OPERATED FOR THE OWNER BY OTHERS.
- CONDUIT; MINIMUM SIZE ¾".
- BACKBOARDS: ¾ INCH WEATHERPROOF PLYWOOD, WITH FIRE RETARDANT SEALER, ONE PIECE PER INSTALLATION.

26-2816 CONTROLS

- COMPLETE CONTROLS FOR LIGHTING AND MECHANICAL EQUIPMENT, AS NOTED ON THE DRAWINGS. ALL LIGHTING CONTROLS SHALL COMPLY WITH 2015 MICHIGAN ENERGY CODE.
- APPROVED MANUFACTURERS: ACUTY, COOPER, HUBBELL AND LEVITON.

28-3100 FIRE ALARM SYSTEM

- SUPERVISED, NON-CODED, ZONE ANNUNCIATED, CLOSED LOOP, 24 VOLT DC FIRE ALARM SYSTEM. THE SYSTEM SHALL BE DESIGNED TO SUPERVISE THE SYSTEM WIRING AND THE CONNECTION TO EACH DEVICE; DEVICES SHALL HAVE FACTORY INSTALLED TERMINAL BLOCKS SO THAT ALL WIRING IS TERMINATED WITHOUT USE OF PITGAIL CONNECTIONS. SYSTEM SHALL BE WIRED IN ACCORDANCE WITH NFPA REQUIREMENTS FOR CLASS "B" WIRING.
- PROVIDE FULLY SUPERVISED FIRE ALARM STATIONS, THERMAL DETECTORS, SMOKE DETECTORS, AUDIO/VISUAL ALARMS, ANNUNCIATED CIRCUITS AND FIRE PROTECTION CIRCUITS.
- PROVIDE U.L. APPROVED ALARM VERIFICATION OPERATION FOR SMOKE DETECTOR ALARM CONDITIONS.
- ACTUATION OF MANUAL STATIONS, AUTOMATIC DETECTORS AND FIRE PROTECTION FLOW SWITCHES, SHALL CAUSE THE FOLLOWING FUNCTIONS:
 - ACTUATE GENERAL ALARM RELAY IN CONTROL PANEL TO INITIATE AUDIBLE AND VISIBLE ALARMS CONTINUOUSLY THROUGHOUT BUILDING.
- ACCEPTABLE MANUFACTURERS
-NOTIFIER
- EQUIPMENT SHALL BE PURCHASED FROM AN ESTABLISHED SUPPLIER LOCATED WITHIN 100 MILES OF PROJECT WHO IS A STOCKING DISTRIBUTOR WITH A FULL-TIME STAFF OF FACTORY TRAINED SERVICE PERSONNEL.
- FIRE ALARM STATION
CODED, SEMI-FLUSH MOUNTED, INDICATING OPERATION PHYSICALLY UNTIL RESET.
DETECTORS: COMBINED FIXED TEMPERATURE/RATE OF RISE FOR CEILING MOUNTING.
FIXED TEMPERATURE: 135°F (57°C).
RATE OF RISE: 14°F (8°C) PER MINUTE.
RESETTING: PROVIDE AUTOMATIC RESET RATE-OF-RISE ELEMENT AND NON-RESET, INDICATING TYPE FIXED TEMPERATURE ELEMENT.
- SMOKE DETECTORS



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REVIEW

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REVIEW

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02/05/26

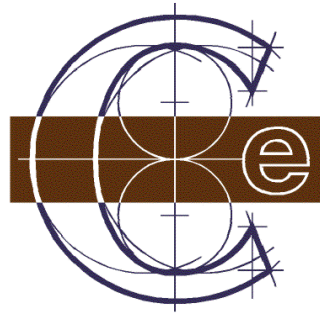
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PROJECT NUMBER
PROJECT #

SHEET NUMBER
E100

SHEET NAME
DETAILS

1. REFER TO WIRE SIZING CHART. COPPER OR ALUMINUM MAY BE UTILIZED AT CONTRACTORS DISCRETION UNLESS OTHERWISE NOTED. COORDINATE ROUTING WITH TRADES ON SITE.
2. VERIFY COMPLIANCE WITH DRAWINGS FROM SERVICE ENTRANCE EQUIPMENT TO FEEDER CIRCUITS.
3. VERIFY HVAC MOTOR CIRCUIT PROTECTION AND TEST THERMAL OVERLOAD PROTECTION ON HVAC MOTORS.



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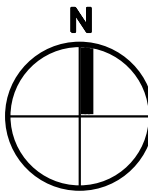
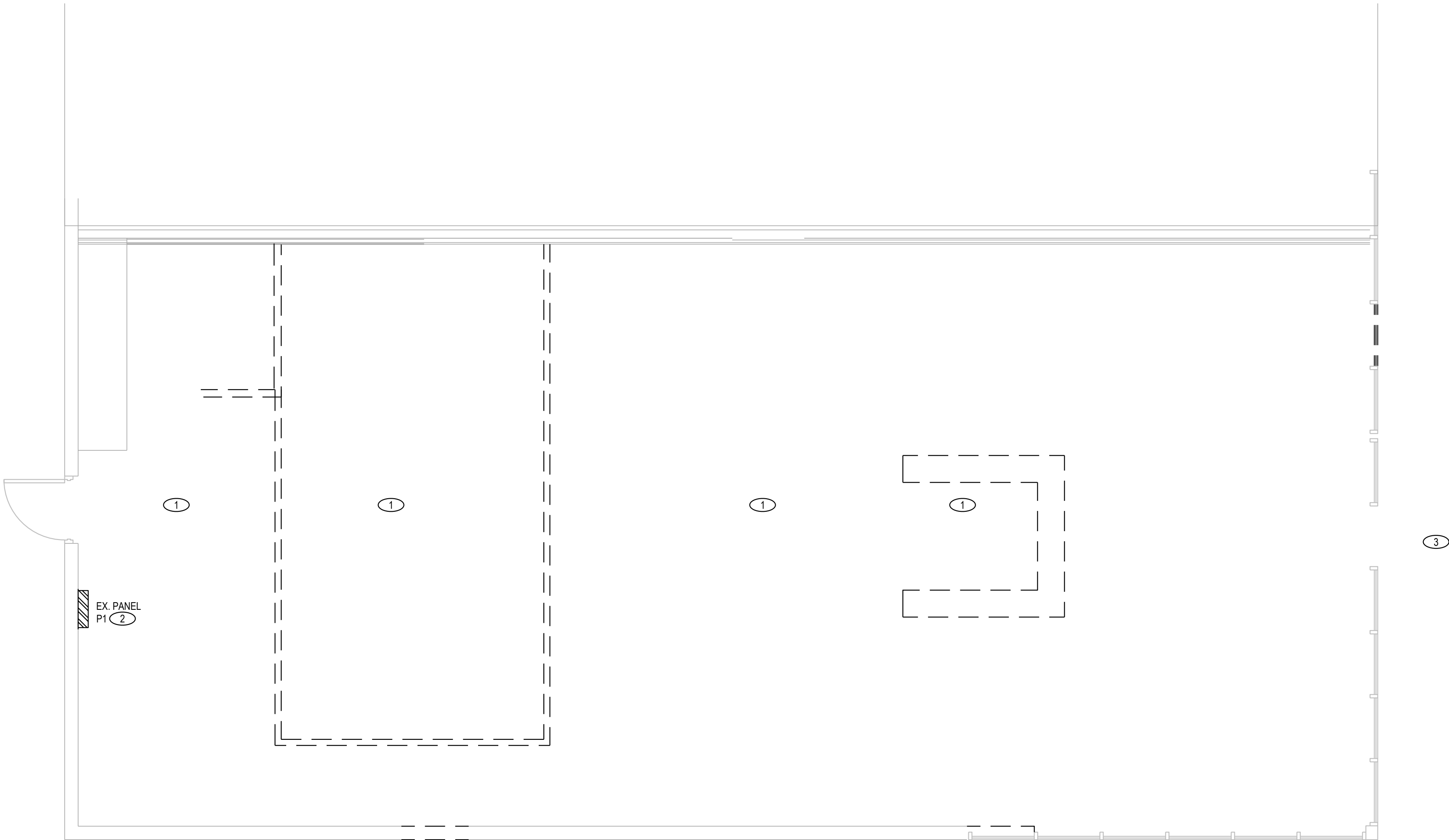
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PROJECT #

SHEET NUMBER
ED-1

SHEET NAME
FLOOR PLAN

DEMOLITION POWER KEYNOTES:

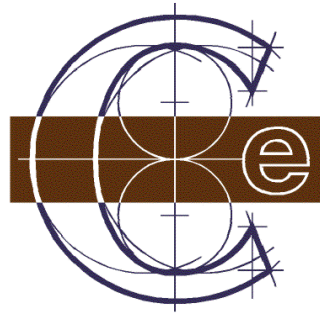
- 1 REMOVE LIGHTS, SWITCHES, RECEPTACLES AND ANY OTHER ELECTRICAL DEVICE(S) COMPLETELY BACK TO SOURCE.
- 2 PANEL IS EXISTING TO REMAIN.
- 3 EXTERIOR LIGHTING IS EXISTING TO REMAIN.



FLOOR PLAN - DEMOLITION

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

THIS IS 6" LONG



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PROJECT #

SHEET NUMBER
EL-1

SHEET NAME
FLOOR PLAN

LIGHTING CONTROL NOTES:

- SEQUENCE OF OPERATION PER SPACE
 - CLASSROOM: AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE. THE LIGHTS SHALL BE A MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING TO NOT MORE THAN 50% POWER. THEY SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN OFF THE LIGHTS, WITH MANUAL DIMMABLE ON/OFF AND CONTROL OVER OCCUPANCY SENSOR.
 - CORRIDOR: PROVIDE PASSIVE INFRARED OCCUPANCY SENSOR SUITABLE FOR SIZE OF ROOM TO CONTROL LIGHTING AUTO OFF TO 50% AFTER 20 MINUTES DURATION. NO LOCAL CONTROL STATION PROVIDED DUE TO SAFETY. LIGHTS SHALL BE DESIGNED TO TURN OFF WHEN EITHER UNOCCUPIED OR SCHEDULED TO BE UNOCCUPIED.
- LIGHTING CONTROL SYSTEM SHALL MEET MICHIGAN 2021 ENERGY CODE.

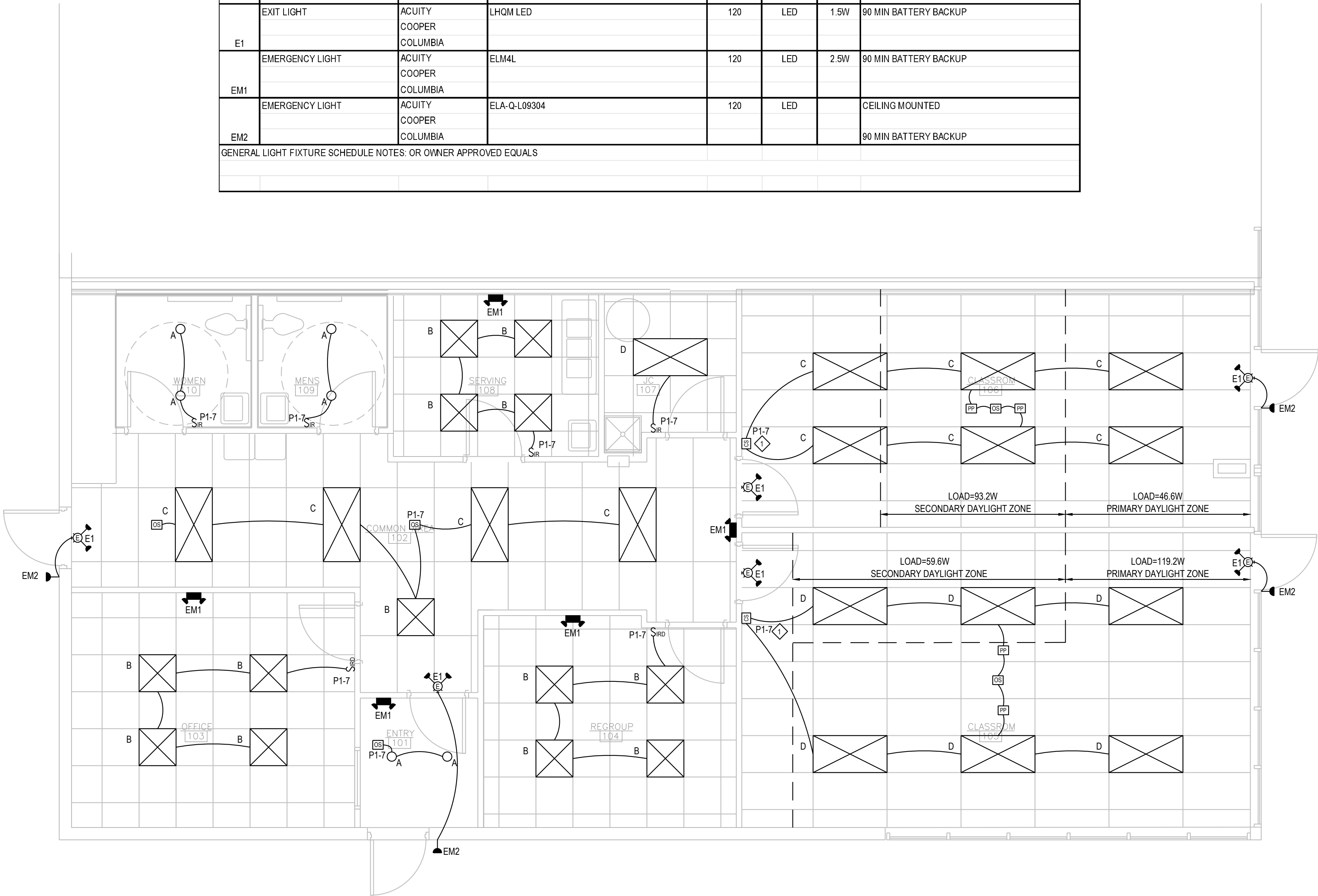
LIGHTING KEY NOTES:

- PROVIDE #PODMA 2P DX OR OWNER APPROVED EQUAL. DUAL ZONE SWITCH WITH ON/OFF RAISE/LOWER FUNCTIONALITY FOR EACH ZONE.

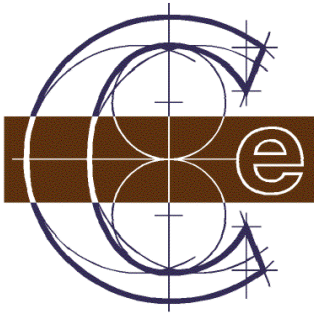
GENERAL LIGHTING NOTES:

- 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.

LIGHT FIXTURE LEGEND							
FIXTURE TYPE	DESCRIPTION	MANU	CATALOG PART#	VOLTAGE	LAMPS	Wattage	REMARKS
A	8"	ACUITY	JSBTC 6IN TUWH 90CRI VL MWM6	120	LED	14W	
		COOPER COLUMBIA			35K		
B	2X2 PANEL	ACUITY	2GTL2-20L-A12125-LP830	120	LED	18.4W	
		COOPER COLUMBIA			35K		
C	2X4 PANEL	ACUITY	2GTL4-30L-A12125-LP830	120	LED	23.3W	
		COOPER COLUMBIA			35K		
D	2X4 PANEL	ACUITY	2GTL4-40L-A12125-LP830	120	LED	29.8W	
		COOPER COLUMBIA					
E1	EXIT LIGHT	ACUITY	LHQM LED	120	LED	1.5W	90 MIN BATTERY BACKUP
EM1	EMERGENCY LIGHT	ACUITY	ELM4L	120	LED	2.5W	90 MIN BATTERY BACKUP
EM2	EMERGENCY LIGHT	ACUITY	ELA-Q-109304	120	LED		CEILING MOUNTED
		COOPER COLUMBIA					90 MIN BATTERY BACKUP
GENERAL LIGHT FIXTURE SCHEDULE NOTES: OR OWNER APPROVED EQUALS							



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



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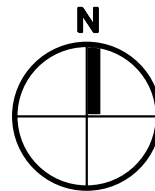
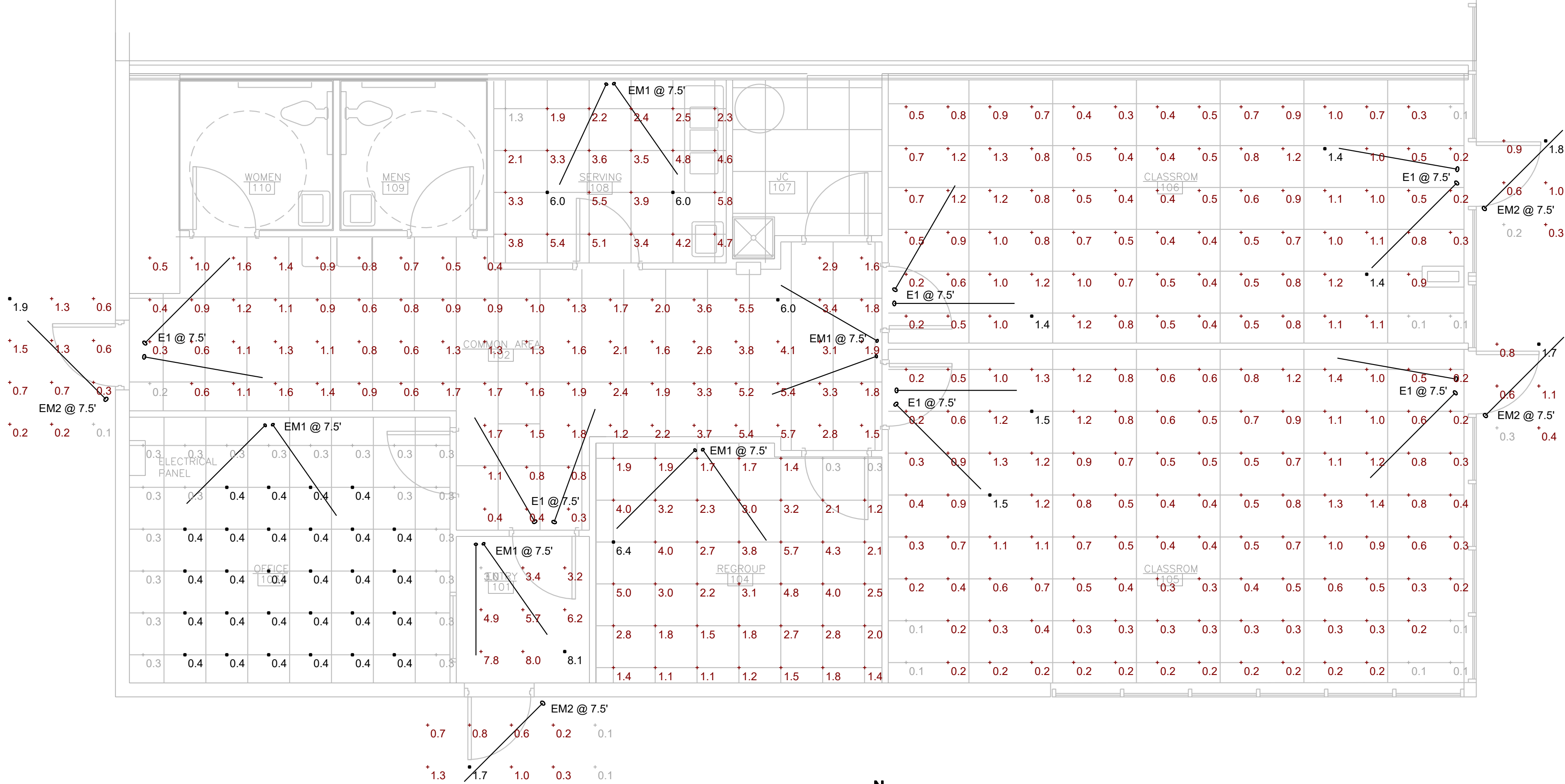
PROJECT NUMBER
PROJECT #

SHEET NUMBER
EL-2

SHEET NAME
FLOOR PLAN

Schedule											
Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
	E1		6	Lithonia Lighting	LHQM LED	QUANTUM LED EMERGENCY COMBO (ONE HEAD ONLY)	1	Absolute	1	1.5	 Max: 211cd
	EM1		5	Lithonia Lighting	ELM4L	ELM4L SP640L	1	345	1	2.5	 Max: 697cd
	EM2		4	Lithonia Lighting	ELA Q L0304	ELM2 LED REMOTE LAMP HEAD	1	80	1	0	 Max: 216cd

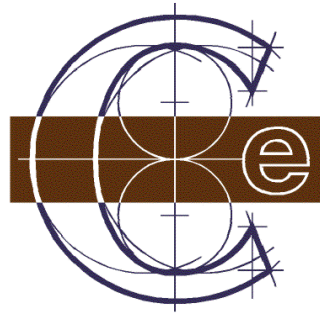
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CLASSROOM 105 EXTERIOR	+	0.8 fc	1.7 fc	0.3 fc	5.7:1	2.7:1
CLASSROOM 106	+	0.7 fc	1.4 fc	0.1 fc	14.0:1	7.0:1
CLASSROOM 106 EXTERIOR	+	0.8 fc	1.8 fc	0.2 fc	9.0:1	4.0:1
COMMON AREA 102	+	1.8 fc	6.0 fc	0.2 fc	30.0:1	9.0:1
COMMON AREA 102 EXTERIOR	+	0.8 fc	1.9 fc	0.1 fc	19.0:1	8.0:1
ENTRY 101	+	5.6 fc	8.1 fc	3.0 fc	2.7:1	1.9:1
ENTRY 101 EXTERIOR	+	0.7 fc	1.7 fc	0.1 fc	17.0:1	7.0:1
OFFICE 103	+	0.4 fc	0.4 fc	0.3 fc	1.3:1	1.3:1
REGROUP 104	+	2.5 fc	6.8 fc	0.3 fc	21.3:1	8.3:1
SERVING 108	+	3.8 fc	6.0 fc	1.3 fc	4.6:1	2.8:1
CLASSROOM 105	+	0.6 fc	1.5 fc	0.1 fc	15.0:1	6.0:1



FLOOR PLAN - EMERGENCY PHOTOMETRICS

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

THIS IS 6" LONG



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SHEET NUMBER
EP-1

SHEET NAME
FLOOR PLAN

AUTOMATIC RECEPTACLE CONTROL NOTES:

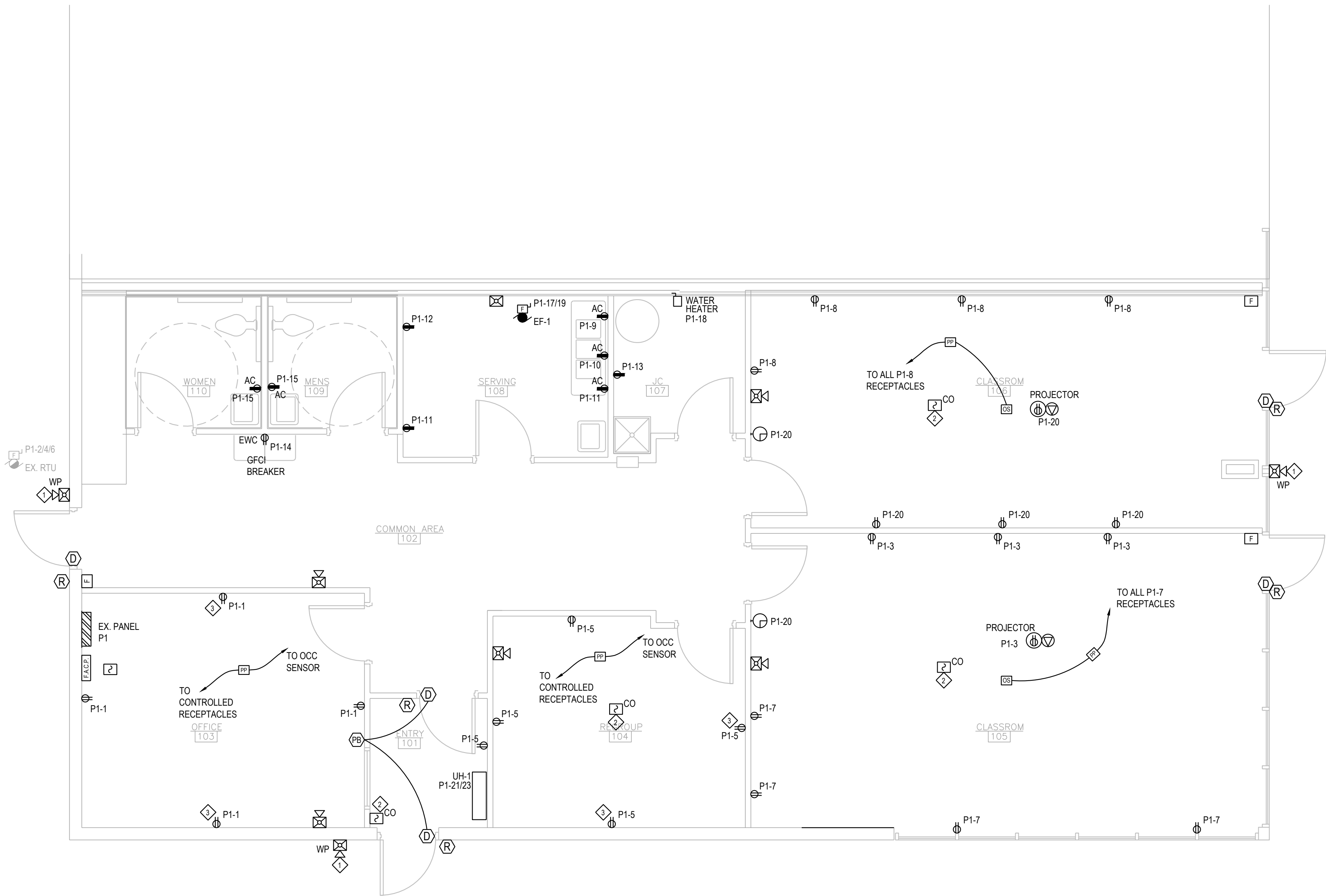
1. AUTOMATIC RECEPTACLE CONTROL SYSTEM SHALL MEET 2021 ENERGY CODE.
2. AT LEAST 50% OF ALL 125V, 15 AND 20 AMP RECEPTACLES IN: PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, BREAK ROOMS, CLASSROOMS, COPY/PRINT ROOMS. CONTROLLED RECEPTACLES SHALL BE CLEARLY IDENTIFIED WITH PERMANENT MARKINGS (E.G., ENGRAVED FACEPLATES OR COLOR RECEPTACLES).
3. CONTROLLED RECEPTACLES SHALL BE TURNED OFF BY AT LEAST ONE OF THE FOLLOWING METHODS:
 - 3.1. OCCUPANCY SENSOR THAT TURNS OFF RECEPTACLES WITHIN 20 MINUTES AFTER THE SPACE IS UNOCCUPIED. IN COMBINATION WITH LIGHTS
 - 3.2. TIME-OF-DAY SCHEDULING VIA BUILDING AUTOMATION SYSTEM (BAS) OR PROGRAMMABLE TIMER, WITH MANUAL OVERRIDE CAPABILITY.
 - 3.3. SIGNAL FROM ANOTHER AUTOMATED SYSTEM THAT PROVIDES EQUIVALENT SHUT OFF FUNCTIONALITY; SUCH AS SENSOR CONTROLLING LIGHTS.
4. EXCEPTIONS:
 - 4.1. RECEPTACLES FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION, SUCH AS SERVERS, REFRIGERATORS AND FREEZERS.
 - 4.2. RECEPTACLES CONNECTED TO LIFE SAFETY OR EMERGENCY SYSTEMS.
 - 4.3. DEDICATED RECEPTACLES FOR CRITICAL EQUIPMENT SUCH AS MEDICAL DEVICES.

POWER KEYNOTES:

- ◇ WEATHERPROOF HORN STROBE TO BE LOCATED ON EXTERIOR OF BUILDING AT 8'-0" AT FIRE SUPPRESSION CONNECTION, STROBE TO ACTIVATED BY FIRE PROTECTION FLOW SWITCHES.
- ◇ CARBON MONOXIDE ALARM SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN ON-SITE LOCATION THAT IS STAFFED BY SCHOOL PERSONNEL.
- ◇ CONTROLLED RECEPTACLE VIA OCCUPANCY SENSOR.

GENERAL POWER NOTES:

1. ALL 15A & 20A 120V NON-LOCKING RECEPTACLES WITH PUBLIC SPACES WHERE CHILDREN CAN BE FOUND SHALL BE LISTED TAMPER RESISTANT PER NEC 406.12. THIS INCLUDES SCHOOLS, HOTELS, CLINICS, OUTPATIENT FACILITIES, PLACES OF WAITING AND ALL COMMON USE AREAS (CORRIDORS, GYM, MUSIC ETC.).
2. MOUNT PANELS, TRANSFORMERS, DISCONNECT SWITCHES, AND COMBINATION MOTOR STARTERS WITH ADEQUATE CLEARANCES IN ACCORDANCE WITH NEC 110.
3. VERIFY ALL EQUIPMENT REQUIREMENTS, CONNECTION TYPES, AND LOCATIONS WITH EQUIPMENT SUPPLIER AND NAMEPLATES PRIOR TO ROUGH-IN.
4. FIRE ALARM, SECURITY AND ACCESS CONTROL DEVICES SHOWN FOR REFERENCE ONLY AND DO NOT REPRESENT COMPREHENSIVE SYSTEMS.
5. ELECTRIC METER IS LOCATED ON THE NORTH SIDE OF THE BUILDING. CONTACT ENGINEER IF EXACT LOCATION IS REQUIRED.
6. PROVIDE RECEPTACLES WITH STAINLESS STEEL COVER PLATE.



FLOOR PLAN - POWER

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

THIS IS 6" LONG