

BUILDING IMPROVEMENTS, Building 3480

Camp Gilbert C. Grafton, Devils Lake, ND
Owner: The Adjutant General, State of ND
NDNG Project NO. 2621

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ARCHITECT

Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

MECHANICAL ENGINEER

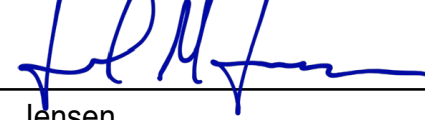
MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

ELECTRICAL ENGINEER

MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

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Jared M. Jensen

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Registration # 2580



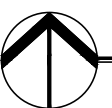
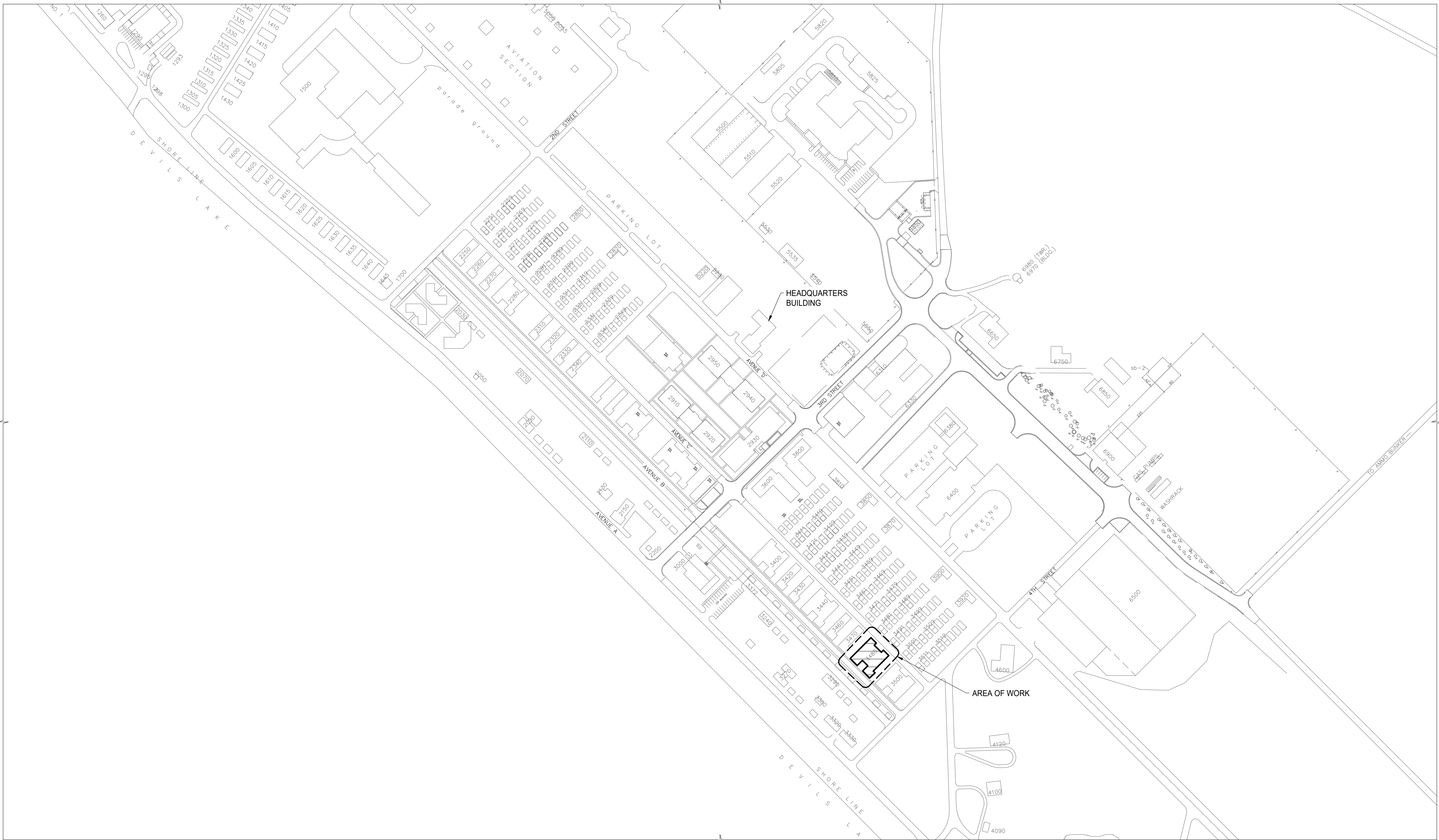
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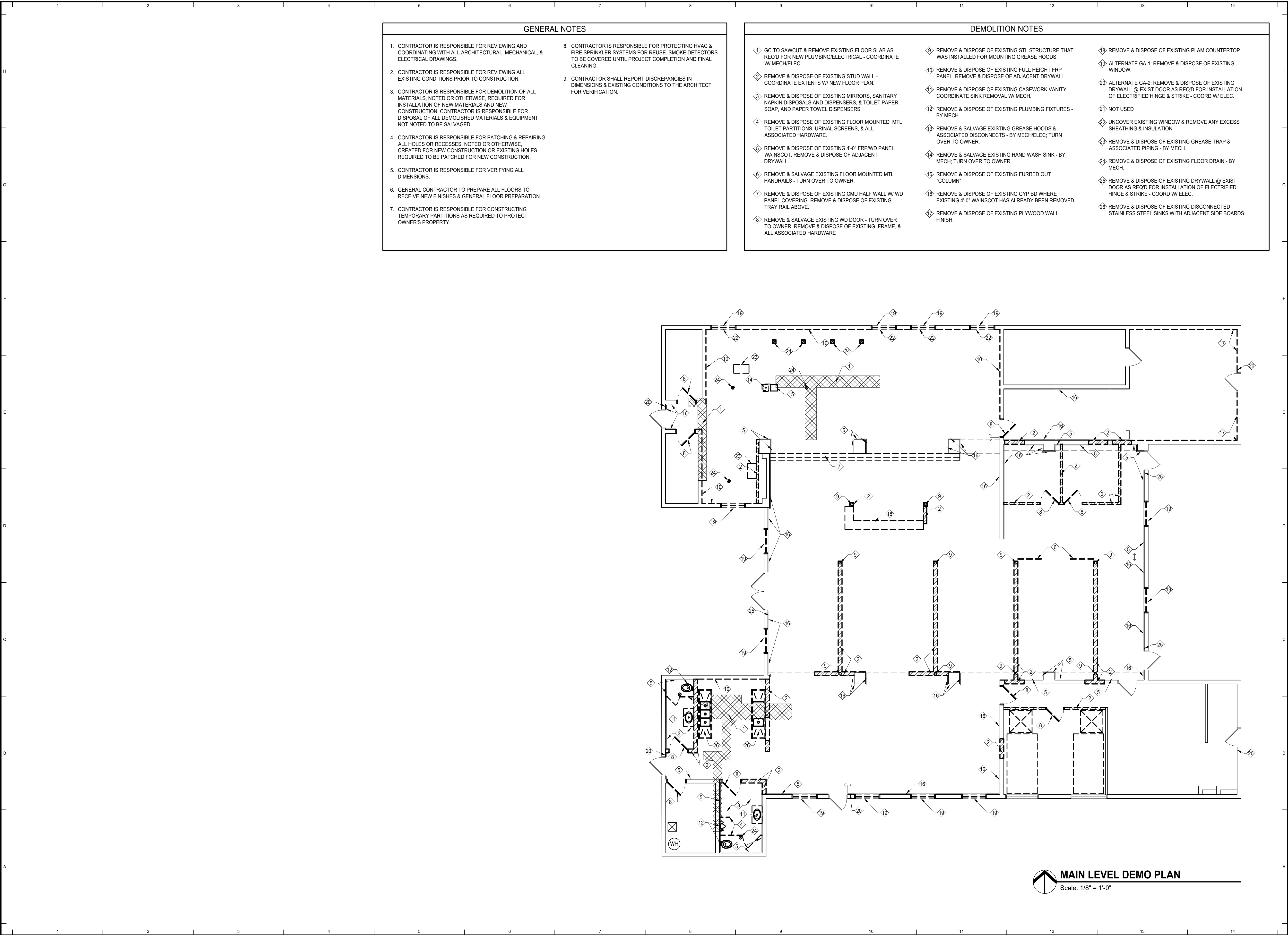
Drawing Title
SHEET INDEX
SITE PLAN

COVER



CAMP GILBERT C. GRAFTON SITE PLAN

Scale: 1" = 200'-0"



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July 31, 2026 2508-4

Drawing Title
MAIN LEVEL DEMO PLAN
DEMOLITION NOTES
GENERAL NOTES

A090

ROOM FINISH SCHEDULE

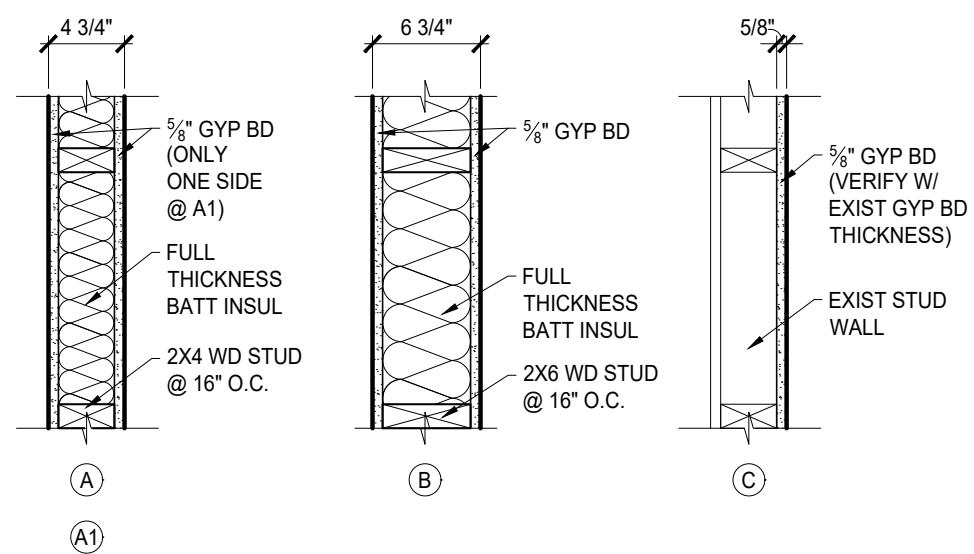
CMU CONC SC EP EPB	Concrete Masonry Unit Concrete Sealed Concrete Epoxy Epoxy Base	CT TB CPT CPTB M	Ceramic Tile Tile Base Carpet Carpet Base Walk-Off Mat	VCT RB SV L	Vinyl Composition Tile Rubber Base Sheet Vinyl Linoleum				GYP BD WRGB FRP P VWC	Gypsum Board Water Resistant Gyp. Wall Bd. Fiber Reinforced Panel Paint Vinyl Wall Covering	WC ST ACT EXP-U PA	Wainscot Stain Acoustic Ceiling Tile Unpainted Exposed Structure Polysparic Coating			
ROOM NO.	ROOM NAME	FLOOR		WALLS								CEILING			REMARKS
				NORTH		EAST		SOUTH		WEST					
		MAT.	BASE	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	HEIGHT	
100	CLASSROOM	PC	RB	GYP BD	P	EXIST/GYP BD	P	--	--	GYP BD	P	ACT	--	SEE RCP	--
101	KITCHENETTE	LVT	RB	--	--	GYP BD	P	GYP BD	P	GYP BD	P	EXIST	P	--	--
102	STORAGE	EXIST	RB	EXIST	P	EXIST	P	EXIST	P	EXIST	P	EXIST	P	--	--
103	ALCOVE	CPT	RB	EXIST/GYP BD	P	--	--	EXIST/GYP BD	P	EXIST/GYP BD	P	GYP BD	P	SEE RCP	--
104	MECH	EXIST	--	EXIST	--	EXIST	--	EXIST/GYP BD	P	EXIST	--	EXIST	--	--	--
105	CONFERENCE	CPT	RB	GYP BD	P	GYP BD	P	EXIST/GYP BD	P	GYP BD	P	EXIST/GYP BD	P	SEE RCP	--
106	OFFICE	CPT	RB	GYP BD	P	GYP BD	P	GYP BD	P	GYP BD	P	EXIST/GYP BD	P	SEE RCP	--
107	IT	EXIST	--	--	--	--	--	--	--	--	--	--	--	--	NO WORK
108	OFFICE	CPT	RB	EXIST/GYP BD	P	GYP BD	P	GYP BD	P	EXIST/GYP BD	P	GYP BD	P	SEE RCP	--
109	OFFICE	CPT	RB	EXIST	P	GYP BD	P	EXIST/GYP BD	P	GYP BD	P	EXIST	P	--	--
110	OFFICE	CPT	RB	EXIST	P	GYP BD	P	EXIST/GYP BD	P	EXIST/GYP BD	P	EXIST	P	--	--
111	ORDERLY OFFICE	PC	RB	EXIST/GYP BD	P	EXIST/GYP BD	P	EXIST/GYP BD	P	EXIST/GYP BD	P	ACT	--	SEE RCP	--
112	ORDERLY OFFICE	PC	RB	GYP BD	P	EXIST/GYP BD	P	EXIST/GYP BD	P	GYP BD	P	ACT	--	SEE RCP	--
113	OFFICE	CPT	RB	EXIST	P	GYP BD	P	GYP BD	P	EXIST/GYP BD	P	EXIST	P	--	--
114	OFFICE	CPT	RB	GYP BD	P	EXIST/GYP BD	P	GYP BD	P	GYP BD	P	EXIST	P	--	--
115	SUPPLY	EXIST	--	EXIST	P	EXIST	P	EXIST	P	EXIST/GYP BD	P	EXIST	P	--	--
116	STORAGE	EXIST	--	GYP BD	P	EXIST	P	EXIST	P	EXIST	P	EXIST	P	--	--
117	CLASSROOM	PC	RB	--	--	EXIST/GYP BD	P	EXIST/GYP BD	P	GYP BD	P	ACT	--	SEE RCP	--
118	KITCHENETTE	PC	RB	GYP BD	P	EXIST/GYP BD	P	EXIST/GYP BD	P	EXIST/GYP BD	P	GYP BD	P	SEE RCP	--
119	MECH	EXIST	--	EXIST/GYP BD	P	EXIST	--	EXIST	--	EXIST	--	EXIST	--	--	--
120	HALL	PC	RB	GYP BD	P	--	--	EXIST/GYP BD	P	EXIST/GYP BD	P	GYP BD	P	SEE RCP	--
121	WOMEN'S TOILET	PA	RB	EXIST/GYP BD	P	GYP BD	P/FRP	GYP BD	P	EXIST/GYP BD	P	GYP BD	P	SEE RCP	--
122	MEN'S TOILET	PA	RB	GYP BD	P	GYP BD	P	GYP BD	P	GYP BD	P/FRP	GYP BD	P	SEE RCP	--

KEY NOTES

- 1 INSTALL BLOCKING AS REQ'D FOR NEW WALL MOUNTED TV - PATCH WALL AS REQ'D.
- 2 PATCH/REPAIR WALL @ REMOVED EXISTING ADJACENT WALL.
- 3 INSTALL GYP BD @ REMOVED FRP/WD PANEL WAINSCOT AND ADJACENT GYP BD - SEE DEMO PLAN FOR EXTENTS. MATCH EXIST GYP BD THICKNESS.
- 4 GC TO PATCH EXIST FLOOR SLAB AS REQ'D TO MATCH EXIST SLAB DEPTH FOLLOWING UNDERGROUND PLUMBING/ELECTRICAL INSTALL & COMPACTION - DOWEL INTO EXIST SLAB W/ #4 @ 16" O.C. EA WAY - SD A5/A100.
- 5 BASE BID - PROVIDE NEW WINDOW BLINDS.
- 6 ALTERNATE GA-1: NEW WINDOW - SEE A700 FOR DIMENSIONS.
- 7 ALTERNATE GA-2: REPAIR/PATCH WALL AS REQ'D AT HINGE &/OR STRIKE SIDE FROM ADDED CARD ACCESS.
- 8 GC TO PATCH EXISTING FLOOR SLAB @ REMOVED FLOOR DRAINS & GREASE TRAPS AS REQ'D TO MATCH EXIST SLAB DEPTH. FEATHER OUT FLOOR AROUND INFILLS TO MATCH SURROUNDING FLOOR ELEV.
- 9 REPAIR/PATCH WALL AS REQ'D @ HINGE &/OR STRIKE SIDE FROM ADDED CARD ACCESS.
- 10 PATCH WALL @ REMOVED RETURN GRILLE.

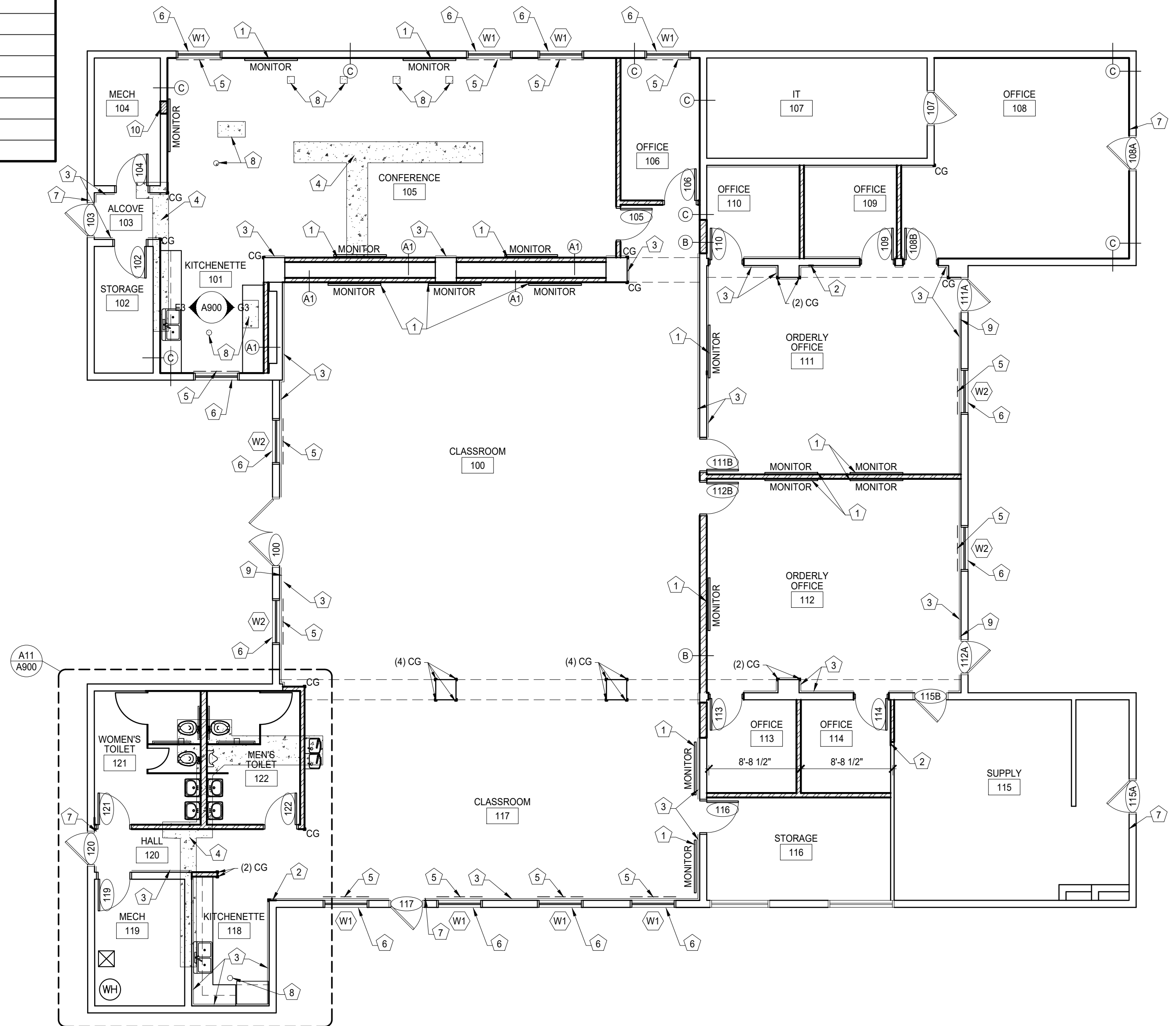
NOTE: ALL WALLS TYPE A UNLESS NOTED OTHERWISE.

CONTRACTOR'S OPTION TO USE WOOD OR METAL STUD FRAMING



G13 WALL TYPES

Scale: 1" = 1'-0"



MAIN LEVEL FLOOR PLAN

Scale: 1/8" = 1'-0"

TYP CONCRETE INFILL

Scale: 1" = 1'-0"

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701.476.0714 p

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ELECTRICAL ENGINEER

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Registration # 2580

SHULTZ + ASSOCIATES
ARCHITECTSDate
July 31, 2026

2508-4

Drawing Title
MAIN LEVEL FLOOR PLAN
WALL TYPES

A100

BUILDING IMPROVEMENTS

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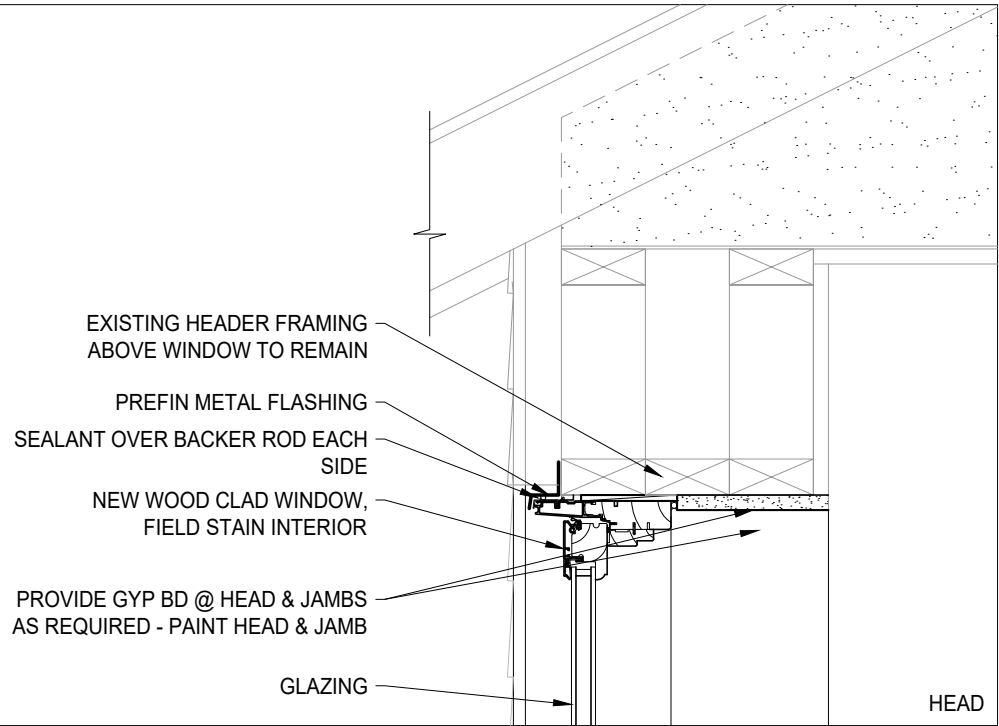
Drawing Title
DOOR SCHEDULE
DOOR TYPES
FRAME TYPES
DETAILS

A700

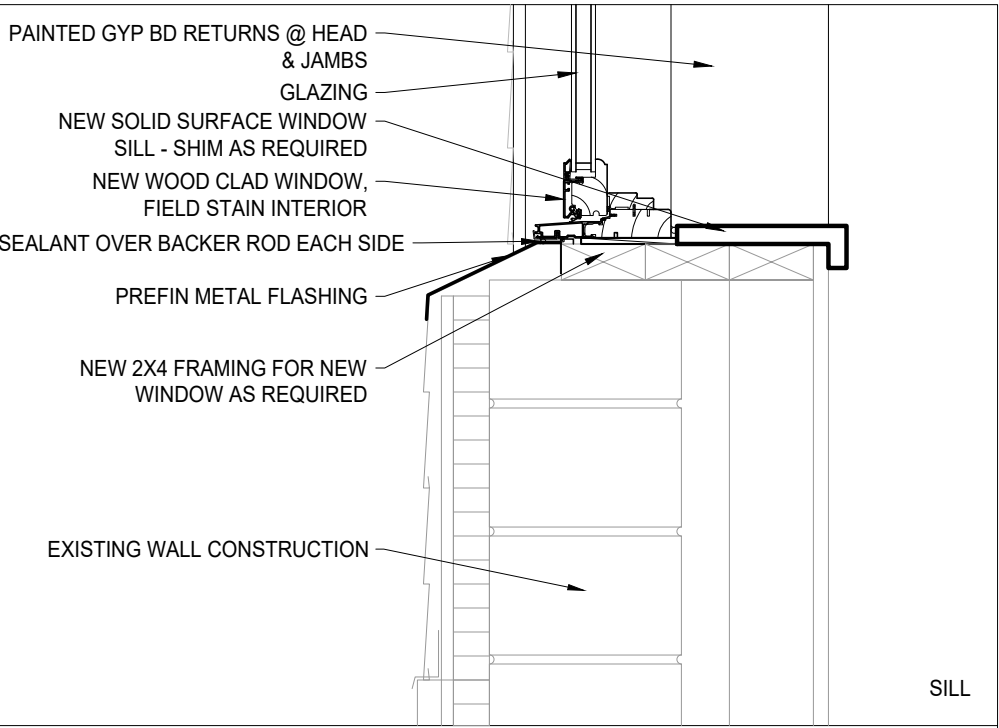
DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR				FRAME		HARDWARE						REMARKS
		SIZE	TYPE	GLASS	RATING	TYPE	GLASS	HANGING	LOCK/LATCH	TRIM PROTECT	CLOSING	STOP/HOLD	SEALING	
100	CLASSROOM	(2) EXIST	EXIST	--	--	EXIST	--	NOTE 6	* (1) QEL KIT W/ RX (1) EXIST	--	EXIST	--	--	*SEE DOOR SCHEDULE NOTES 3 & 4 CARD READER
102	STORAGE	*3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND70	--	--	WS	--	*SEE DOOR SCHEDULE NOTE 1
103	ALCOVE	EXIST	EXIST	--	--	EXIST	--	NOTE 7	*9875L @ BASE BID HDQ-RX-QEL-9875L @ ALT GA-2	--	PA4040XP CUSH STOP	--	--	*SEE DOOR SCHEDULE NOTE 2, 3 & 5 CARD READER @ ALT GA-2
104	MECH	*3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND70	--	--	WS	--	*SEE DOOR SCHEDULE NOTE 1
105	CONFERENCE	3'-0" X 6'-8" X 1 3/4"	WD-2	--	--	HM-1	--	5BB1	98L	--	--	WS	--	--
106	OFFICE	*3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND50	--	--	WS	--	--
107	IT	EXIST	EXIST	--	--	EXIST	--	--	--	--	--	--	--	*SEE DOOR SCHEDULE NOTE 3
108A	OFFICE	EXIST	EXIST	--	--	HM-1	--	NOTE 7	*RX-L9492EL @ ALT GA-2; EXIST @ BASE	--	4040XP CUSH STOP	WS	--	*SEE DOOR SCHEDULE NOTE 2, 3 & 5 CARD READER @ ALT GA-2
108B	OFFICE	3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	EXIST	--	5BB1	ND50	--	--	WS	--	--
109	OFFICE	3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND50	--	--	WS	--	--
110	OFFICE	3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND50	--	--	WS	--	--
111A	ORDERLY OFFICE	EXIST	EXIST	--	--	EXIST	--	NOTE 6	*HD-RX-QEL-9875L	--	PA4040XP CUSH STOP	--	--	*SEE DOOR SCHEDULE NOTE 2, 3 & 5 CARD READER
111B	ORDERLY OFFICE	3'-0" X 6'-8" X 1 3/4"	WD-2	--	--	HM-1	--	5BB1	ND50	--	--	WS	--	--
112A	ORDERLY OFFICE	EXIST	EXIST	--	--	EXIST	--	NOTE 6	*HD-RX-QEL-9875L	--	PA4040XP CUSH STOP	--	--	*SEE DOOR SCHEDULE NOTE 2, 3 & 5 CARD READER
112B	ORDERLY OFFICE	3'-0" X 6'-8" X 1 3/4"	WD-2	--	--	HM-1	--	5BB1	ND50	--	--	WS	--	--
113	OFFICE	3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND50	--	--	WS	--	--
114	OFFICE	3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND50	--	--	WS	--	--
115A	SUPPLY	EXIST	EXIST	--	--	EXIST	--	NOTE 7	*RX-L9492EL @ ALT GA-2; EXIST @ BASE	--	4040XP CUSH STOP	--	--	*SEE DOOR SCHEDULE NOTE 2, 3 & 5 CARD READER @ ALT GA-2
115B	SUPPLY	EXIST	EXIST	--	--	EXIST	--	--	--	--	--	--	--	*SEE DOOR SCHEDULE NOTE 3
116	STORAGE	3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND80	--	--	WS	--	--
117	CLASSROOM	EXIST	EXIST	--	--	EXIST	--	--	*98L	--	PA4040XP CUSH STOP	--	--	*SEE DOOR SCHEDULE NOTE 2, 3 & 5 CARD READER @ ALT GA-2
119	MECH	*3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	ND70	--	--	WS	--	*SEE DOOR SCHEDULE NOTE 1
120	HALL	EXIST	EXIST	--	--	EXIST	--	NOTE 7	*EXIST @ BASE BID HDQ-RX-QEL-9875L @ ALT GA-2	--	PA4040XP CUSH STOP	--	--	*SEE DOOR SCHEDULE NOTE 2, 3 & 5 CARD READER @ ALT GA-2
121	WOMEN'S TOILET	3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	--	200D X 523B 200D 10" KP (2)	4040XP	WS	--	--
122	MEN'S TOILET	3'-0" X 6'-8" X 1 3/4"	WD-1	--	--	HM-1	--	5BB1	--	200D X 523B 200D 10" KP (2)	4040XP	WS	--	--

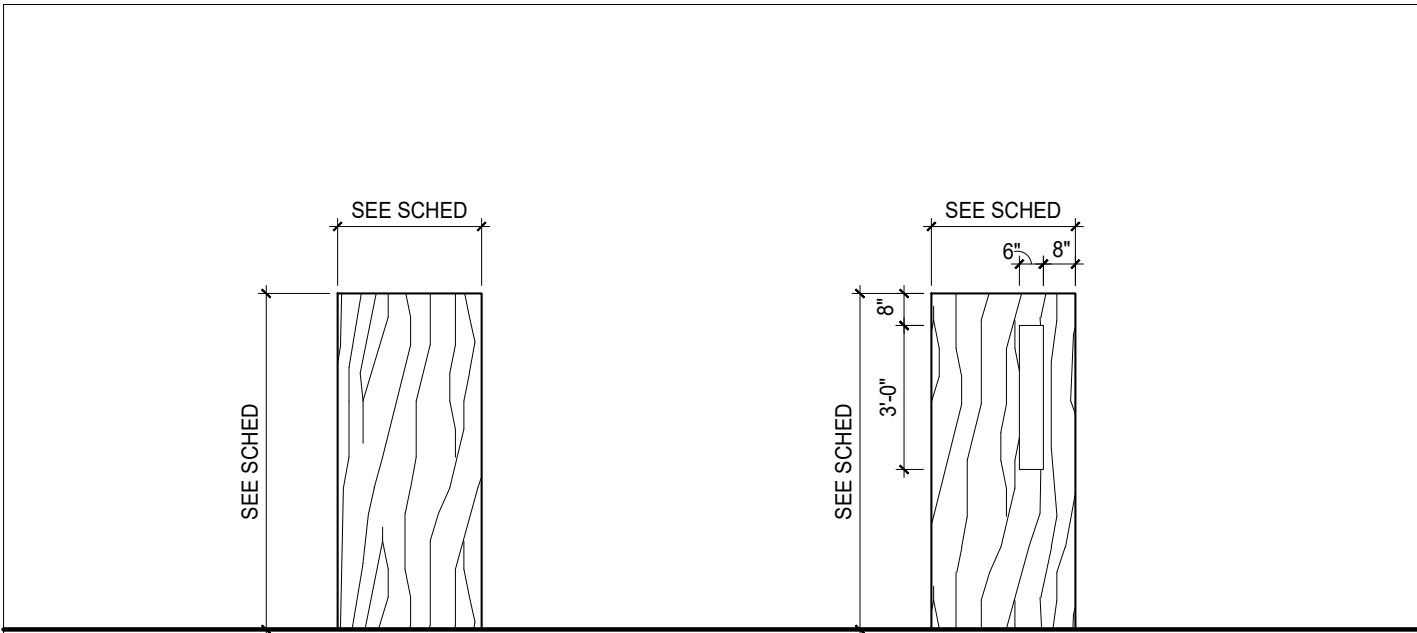
- DOOR SCHEDULE NOTES
- GC TO DEMO WALL AS REQUIRED @ HINGE SIDE TO ALLOW FOR NEW 3'-0" W DOOR. GC TO VERIFY EXISTING OPENING PRIOR TO ANY DEMOLITION WORK.
 - HEX KEY DOGGING AT NEW PANIC BARS.
 - PAINT EXISTING HM DOOR AND FRAME
 - INSTALL QEL KIT ON EXISTING 9875 PANIC, HEX DOGGING TO REMAIN
 - REMOVE EXISTING MORTISE LOCKSET AND INSTALL NEW HARDWARE ON EXISTING DOOR
 - REPLACE EXIST CENTER HINGE W/ 10 WIRE POWER TRANSFER HINGE & PREPARE WIRE PATHWAY IN EXIST DOOR SLAB
 - UNDER ALTERNATE - REPLACE EXIST CENTER HINGE W/ 10 WIRE POWER TRANSFER HINGE & PREPARE WIRE PATHWAY IN EXIST DOOR SLAB



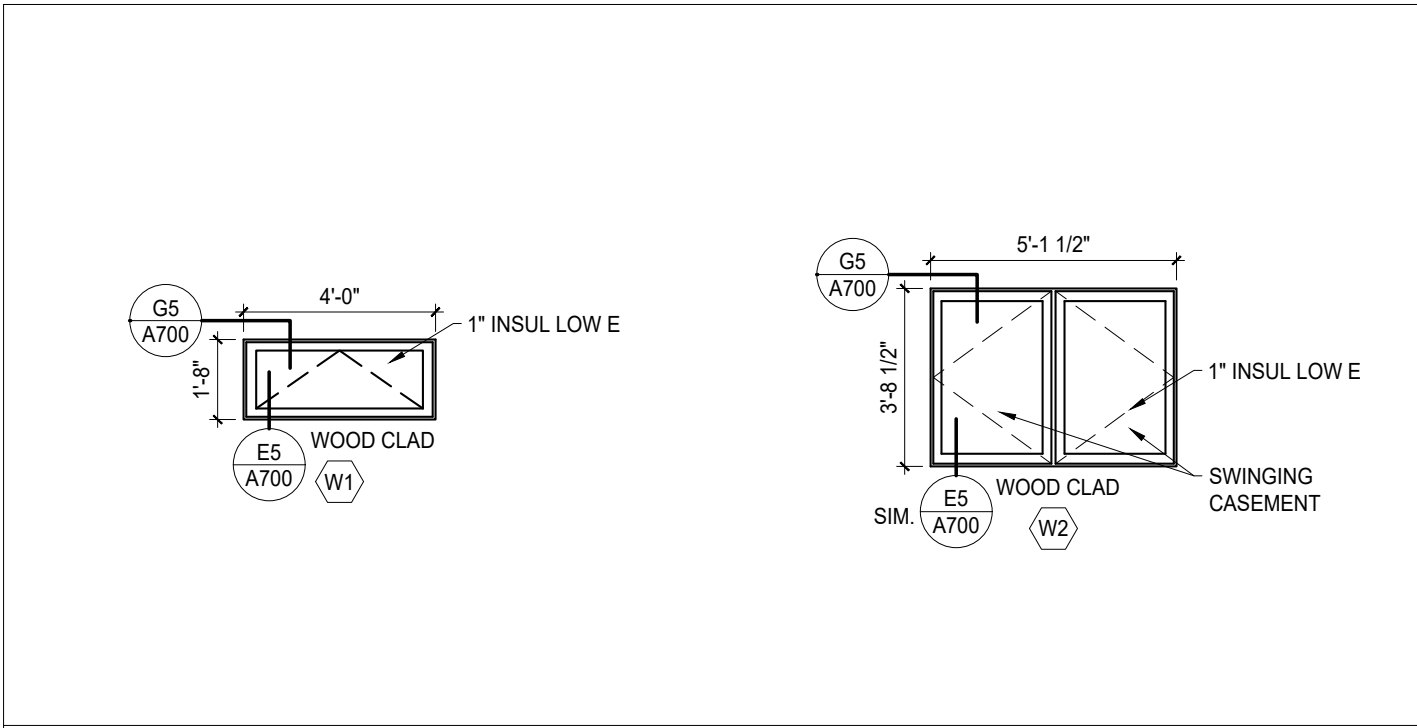
G5 WINDOW DETAIL
Scale: 1-1/2" = 1'-0" ALTERNATE 1



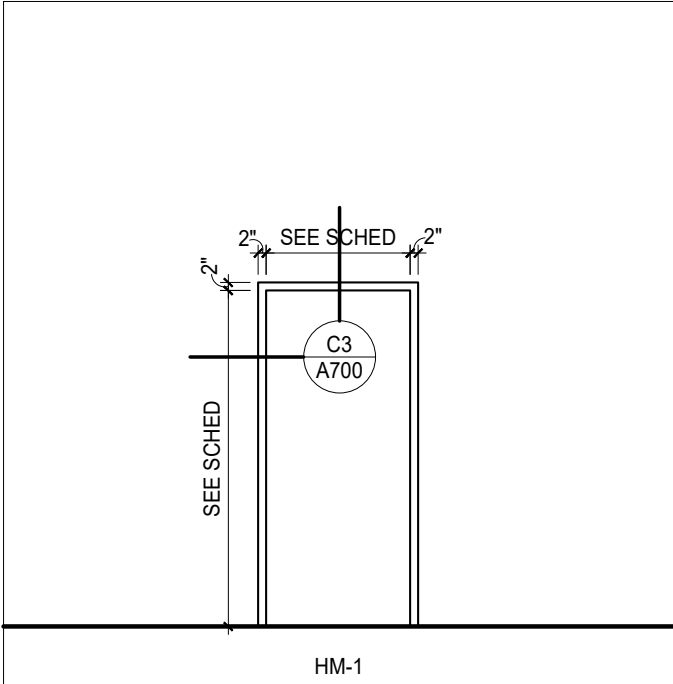
E5 WINDOW DETAIL
Scale: 1-1/2" = 1'-0" ALTERNATE 1



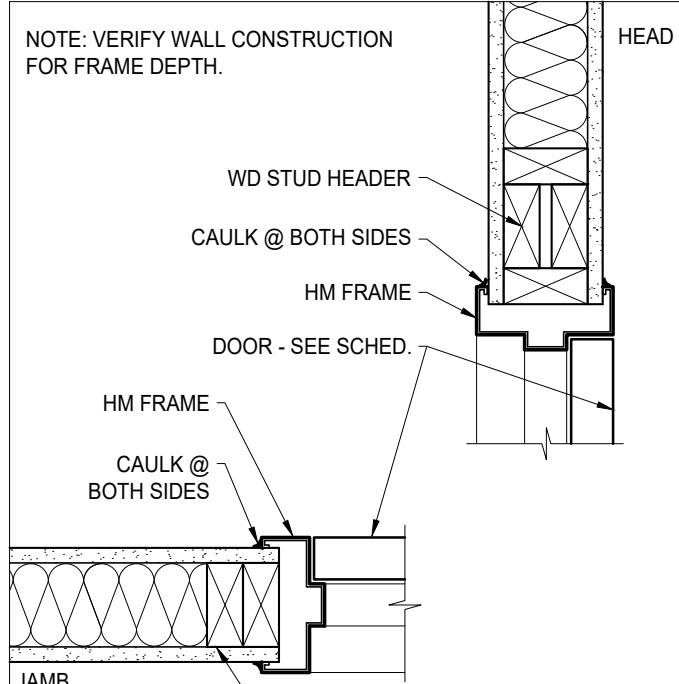
G1 DOOR TYPES
Scale: 1/4" = 1'-0"



E1 WINDOW TYPES
Scale: 1/4" = 1'-0" ALTERNATE GA-1



C1 HM FRAME TYPES
Scale: 1/4" = 1'-0"



C3 HM DOOR DETAIL
Scale: 1-1/2" = 1'-0"

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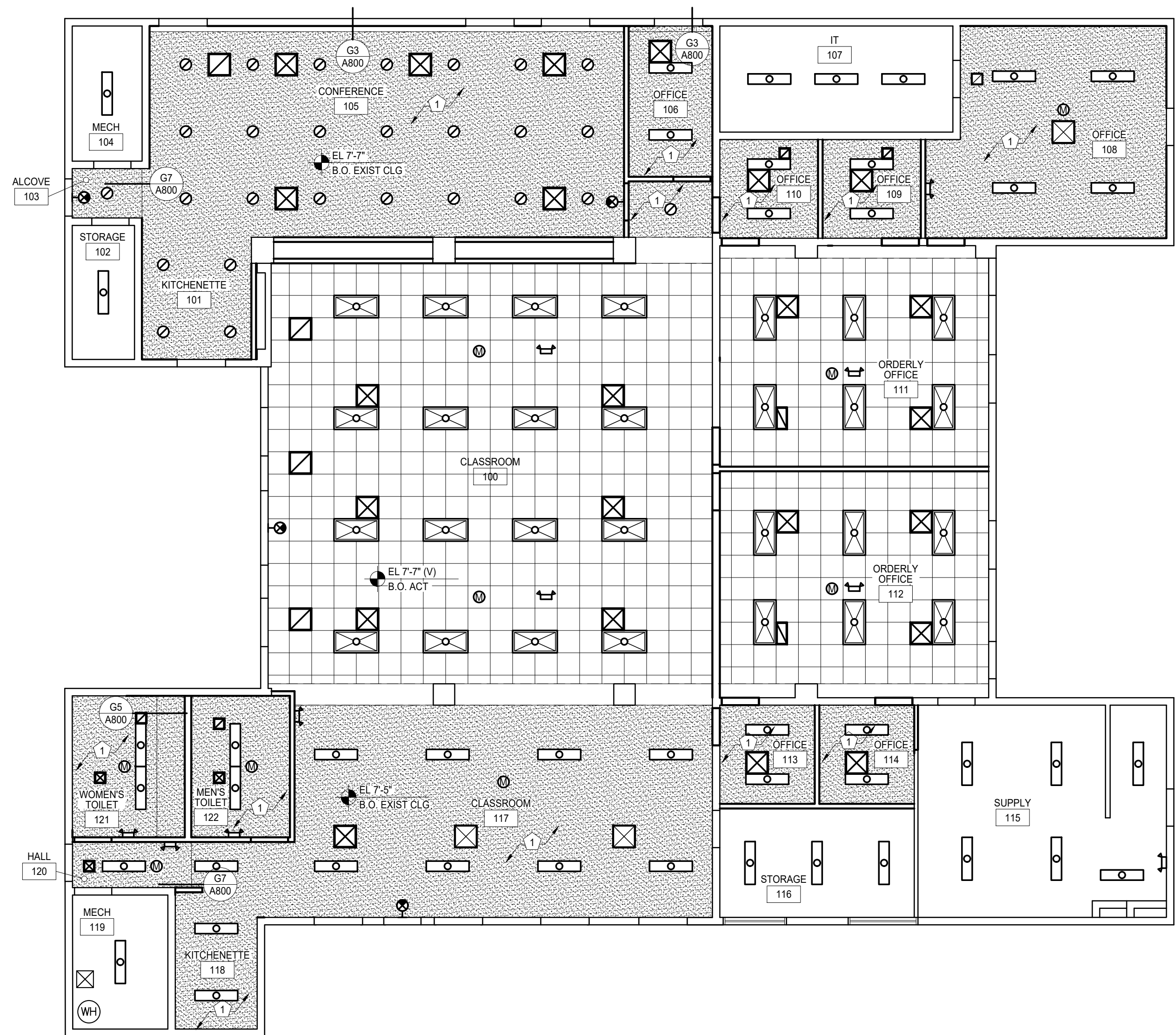
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A800



 **MAIN LEVEL FLOOR PLAN**
Scale: 1/8" = 1'-0"

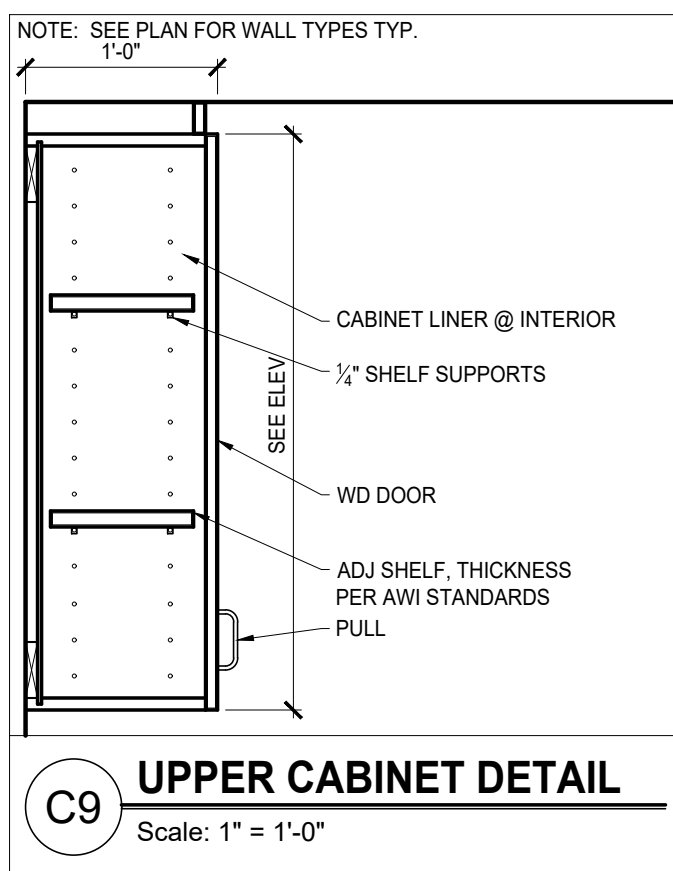
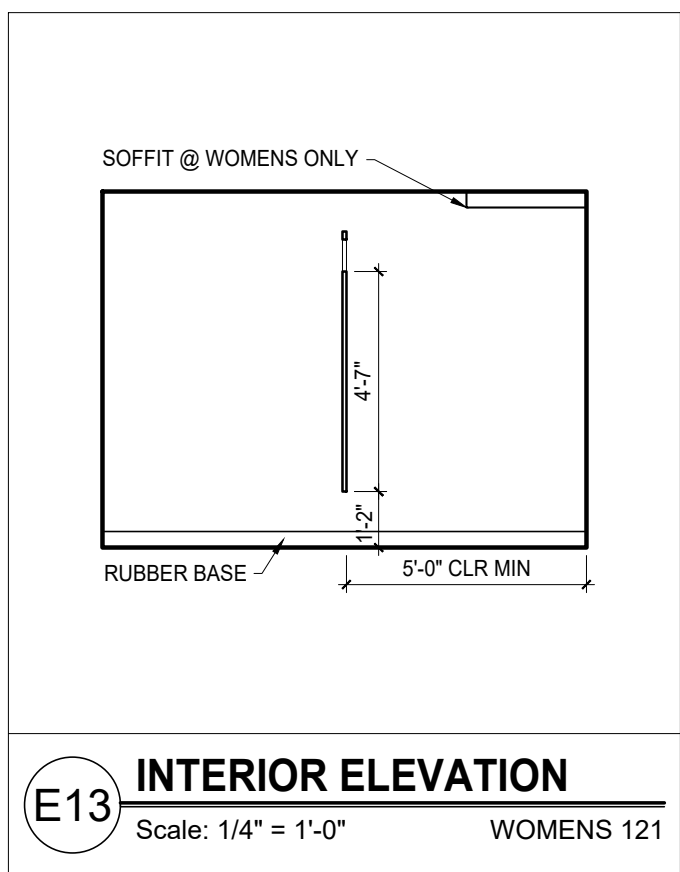
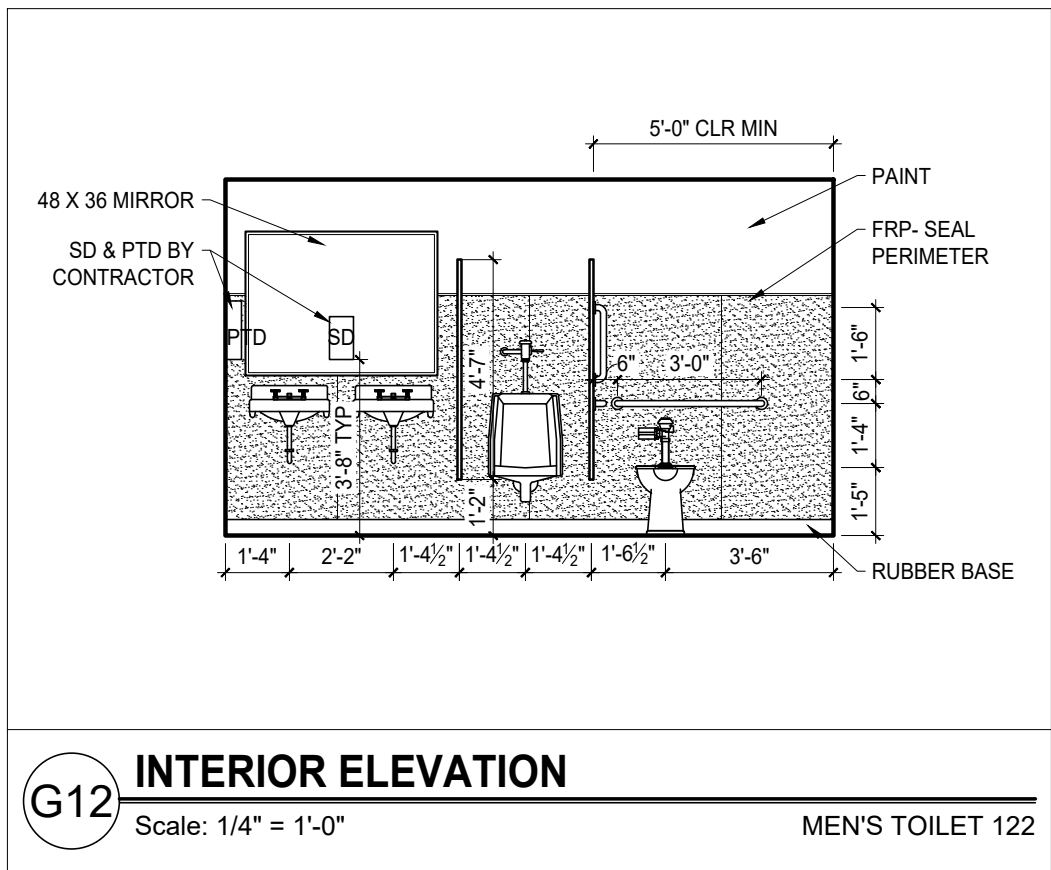
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CONDENSING UNIT SCHEDULE									
CONDENSING UNIT ID	UNIT SERVED	FLUID	COOLING CAPACITY (MBH)	VOLTAGE/ PHASE	MCA	MOP	MANUFACTURER & MODEL		NOTES
CJ-1	F-1	R-454B	60	208/1	29	50	RUUD UA16AY		1,2,3,4,5
CJ-2	F-2	R-454B	60	208/1	29	50	RUUD UA16AY		1,2,3,4,5
CJ-3	F-3	R-454B	60	208/1	29	50	RUUD UA16AY		1,2,3,4,5
CJ-4	F-4	R-454B	48	208/1	26	40	RUUD UA16AY		1,2,3,4,5
1) PROVIDE WITH MATCHED INDOOR COIL, REFER TO FURNACE SCHEDULE FOR ADDITIONAL INFORMATION. MIN 15 SEER2.									
2) INSTALL REFRIGERANT PIPING PER MANUFACTURERS GUIDELINES. VERIFY LINE SIZING, MAXIMUM LENGTH, AND MAXIMUM HEIGHT DIFFERENCE BETWEEN UNITS.									
3) DISCONNECT BY ELECTRICAL CONTRACTOR.									
4) PROVIDE WITH HARD START KIT AND LOW AMBIENT CONTROLS.									
5) PROVIDE CONCRETE HOUSEKEEPING PAD UNDER UNIT ON GROUND.									

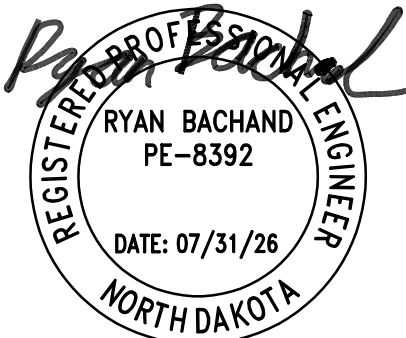
AIR INLET/OUTLET SCHEDULE									
AIR INLET/OUTLET ID	TYPE	NECK SIZE (INCH)	MODULE SIZE (INCH)	NC	MOUNTING	OBD	MANUFACTURER & MODEL		NOTES
S-1	SCD	6" DIA	24"x24"	<20	LAY-IN	N	PRICE SCDA		1
S-2	SCD	8" DIA	24"x24"	<20	LAY-IN	N	PRICE SCDA		1
S-3	SCD	10" DIA	24"x24"	<20	LAY-IN	N	PRICE SCDA		1
S-4	GR	6"x6"	7-3/4"x7-3/4"	<20	SURFACE	N	PRICE \$20		1
S-5	GR	8"x8"	9-3/4"x9-3/4"	<20	SURFACE	N	PRICE \$20		1
S-6	GR	10"x2"	11-3/4"x3-3/4"	<20	SURFACE	N	PRICE \$20		1
R-1	ECG	22"x22"	24"x24"	<20	LAY-IN	N	PRICE 80		1
R-2	ECG	10"x22"	12"x24"	<20	LAY-IN	N	PRICE 80		1
1) PROVIDE STANDARD WHITE FINISH.						SCD	SQUARE CONE DIFFUSER		
						GR	GRILLE		
						ECG	EGG CRATE GRILLE		
						OBD	OPPOSED BLADE DAMPER		

FAN SCHEDULE									
FAN ID	TYPE	CFM	ESP (INCH)	HP	VOLTAGE/ PHASE	DRIVE	SONES	VFD	MANUFACTURER & MODEL
EF-1	CEF	150	0.5	128W	120/1	DIRECT	3.5	ECM	GREENHECK SP-150
EF-2	CEF	150	0.5	128W	120/1	DIRECT	3.5	ECM	GREENHECK SP-150
1) PLUG TYPE DISCONNECT, GRAVITY BACKDRAFT DAMPER, CUSTOM COLOR ROOF CAP, & WHITE ALUMINUM GRILLE. CEF-CEILING EXHAUST FAN									

PUMP SCHEDULE									
PUMP ID	TYPE	PURPOSE	GPM	HEAD (FT)	RPM	HP	VOLTAGE/ PHASE	VFD	MANUFACTURER & MODEL
RCP-1	IL	HW RECIRC	2	10	-	60 W	120/1	N	ECOCIRC 20-18
RCP-2	IL	HW RECIRC	2	10	-	60 W	120/1	N	ECOCIRC 20-18
1) SELECTIONS BASED ON BELL & GOSSETT CATALOGS. 2) DISCONNECT SWITCH BY DIVISION 26. 3) STAINLESS STEEL PUMP WITH FLANGES. RUN AT CONSTANT PRESSURE. IL INLINE									

FURNACE SCHEDULE												
FURNACE ID	CFM	OA CFM	ESP (INCH)	FUEL TYPE	HEATING CAPACITY INPUT (MBH)	OUTPUT (MBH)	COOLING CAPACITY (MBH)	HP	MCA	MOCAP	VOLTAGE/ PHASE	MANUFACTURER & MODEL
F-1	1990	200	0.5	NG	84	82	60	1	12	20	120/1	RUUD R96TA
F-2	1990	170	0.5	NG	112	109	60	1	11	15	120/1	RUUD R96TA
F-3	1990	200	0.5	NG	84	82	60	1	12	20	120/1	RUUD R96TA
F-4	1600	200	0.5	NG	84	82	48	1	12	20	120/1	RUUD R96TA
1) PROVIDE CONDENSATE OVERFLOW SWITCH TO SHUT DOWN UNIT THROUGH THERMOSTAT. 2) PROVIDE ECM MOTOR & TWO STAGES OF HEAT. HEAT LISTED IS HIGH FIRE RATE MIN. 95% AFUE. 3) DISCONNECT BY DIVISION 26. 4) PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT. 5) PROVIDE EXTERNAL SIDE FILTER RACK AND CONCENTRIC VENT KIT. 6) PROVIDE CONCRETE HOUSEKEEPING PAD UNDER UNIT. 7) PROVIDE WITH CONDENSATE PUMP.												

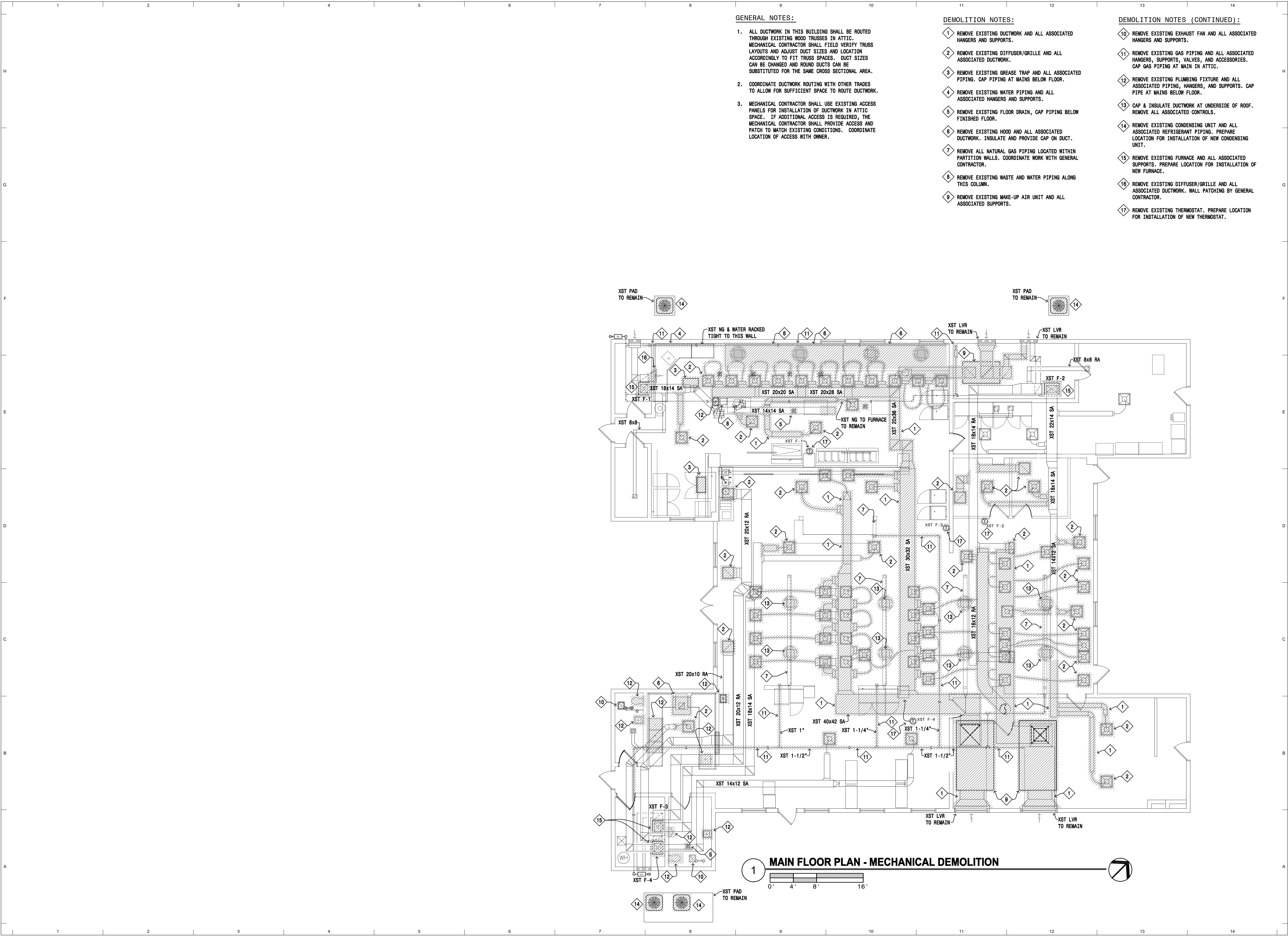
PLUMBING & HVAC SYMBOLS & ABBREVIATIONS LEGEND									
HVAC ABBREVIATIONS		PLUMBING SYSTEMS		HVAC SYSTEMS		HVAC SYSTEMS			
		SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
AFF	ABOVE FINISHED FLOOR	---	CONDENSATE DRAIN	→	RETURN AIR OR EXHAUST AIR INLET	☒ UP ☒ DOWN	POSITIVE PRESSURE DUCT		
DN	DOWN	---		→	SUPPLY AIR OUTLET	☒ UP ☒ DOWN	NEGATIVE PRESSURE DUCT		
EA	EXHAUST AIR	---	DOMESTIC COLD WATER	⊙	THERMOSTAT	18x10	RECTANGULAR DUCT, ACOUSTICALLY LINED (INSIDE DIMENSIONS INDICATED)		
ECG	EGG CRATE GRILLE	---				18x10	RECTANGULAR DUCT		
HW	HOT WATER	---	DOMESTIC HOT WATER	S-1	AIR INLET/OUTLET REFERENCE SYMBOL WITH TYPE AND AIRFLOW SHOWN (TYPE S-1; 150 CFM). REFER TO SCHEDULE. (E=EXHAUST, R=RETURN, S=SUPPLY, T=TRANSFER, E=EXISTING)				
OK	OUTSIDE AIR	---	DOMESTIC RECIRCULATING HOT WATER						
RA	RETURN AIR	---							
SA	SUPPLY AIR	---							
CW	COLD WATER	---	SAN	⊙	CONNECT NEW TO EXISTING		BACKDRAFT DAMPER		
RHW	RECIRCULATING HOT WATER	---	OSW	1	KEY NOTE		COMBINATION FIRE/SMOKE DAMPER		
VTR	VENT THROUGH ROOF	---					FIRE DAMPER		
XST	EXISTING	---					MOTOR OPERATED DAMPER		
HVAC EQUIPMENT TAGS		---	VENT	1	DEMOLITION NOTE		MANUAL VOLUME DAMPER		
CC-1	COOLING COIL	---							
CJ-1	CONDENSING UNIT	---	NATURAL GAS	⚠	REVISION NOTE				
EF-1	EXHAUST FAN	---							
LVR-1	LOUVER	---	PROPANE		ROUND DUCT DOWN				
MAU-1	MAKEUP AIR UNIT	---							
UH-1	UNIT HEATER	---	REFRIGERANT LIQUID		ROUND DUCT UP				
PLUMBING EQUIPMENT TAGS		---	REFRIGERANT SUCTION		SIDEWALL AIR INLET OR OUTLET				
FD-1	FLOOR DRAIN	---							
HB-1	HOSE BIBB	---	DOMESTIC TEMPERED WATER						
L-1	LAVATORY	---	BALL VALVE		RADIUSSED ELBOW				
MV-1	MIXING VALVE	---	CAPPED PIPE						
MB-1	MOP BASIN	---	GAS PRESSURE REGULATOR						
S-1	SINK	---	HOSE BIBB OR WALL HYDRANT		MITERED ELBOW				
SH-1	SHOWER	---							
U-1	URINAL	---	PIPE CONNECTION - BOTTOM						
WC-1	WATER CLOSET	---	PIPE DOWN						
WH-1	WATER HEATER	---	PIPE GUIDE						
		---	PIPE UP						
		---	PUMP		MITERED ELBOW WITH TURNING VANES				



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Date
July 31, 2026
Drawing Title
MECHANICAL SCHEDULES, LEGEND & ABBREVIATIONS

M001



BUILDING IMPROVEMENTS
Building 3480

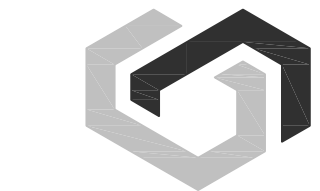
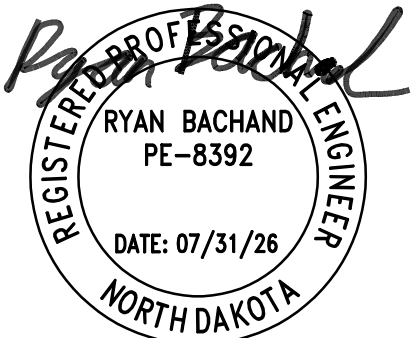
Camp Gilbert C. Grafton, Devils Lake
Owner: The Adjutant General, State of ND

NDNG Project NO. 2621

ARCHITECT
Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

MECHANICAL ENGINEER
MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

ELECTRICAL ENGINEER
MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

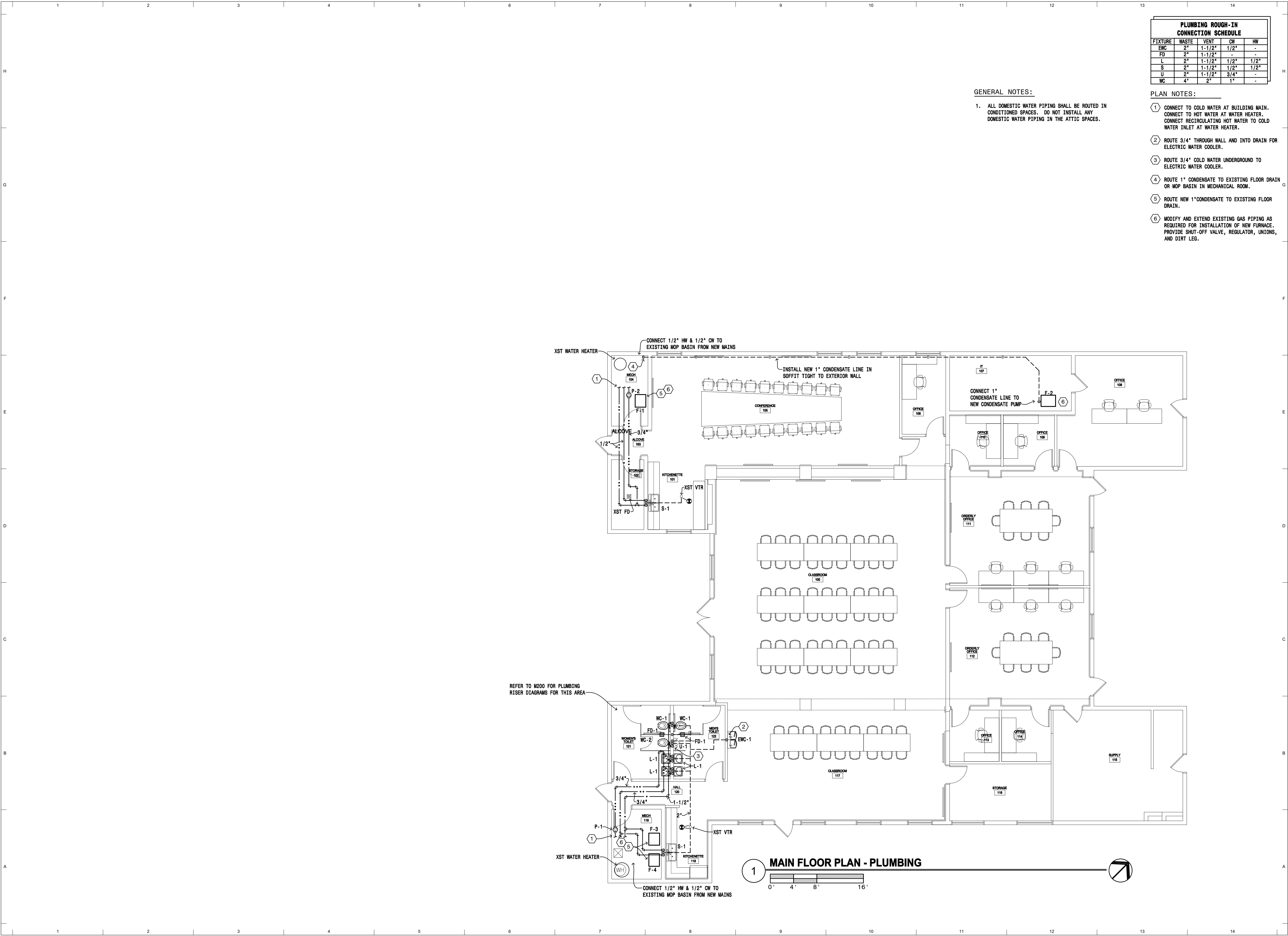


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Date
July 31, 2026 **2508-4**

Drawing Title
MAIN FLOOR PLAN - MECHANICAL DEMOLITION

M100



BUILDING IMPROVEMENTS
Building 3480

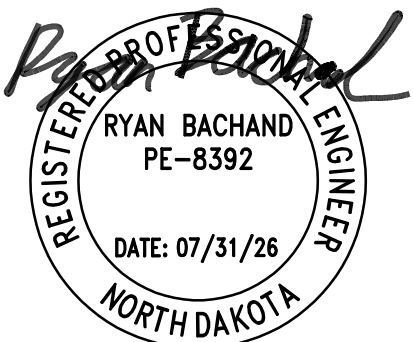
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NDNG Project NO. 2621

ARCHITECT
Shultz + Associates Architects
612 1/2 Main Avenue
 Fargo, North Dakota
701.476.0714 p

MECHANICAL ENGINEER
MBN Engineering
701 Main Ave
 Fargo, North Dakota
701.478.6336 p

ELECTRICAL ENGINEER
MBN Engineering
701 Main Ave
 Fargo, North Dakota
701.478.6336 p



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Date
July 31, 2026
2508-4
Drawing Title
MAIN FLOOR PLAN - PLUMBING

M201

Building 3480

NDNG Project NO. 2621

Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p



MBN
ENGINEERING

MECHANICAL * ELECTRICAL * CIVIL

**701 MAIN AVENUE
FARGO, ND 58103
PHONE: 701.478.6336
FAX: 701.478.6340**

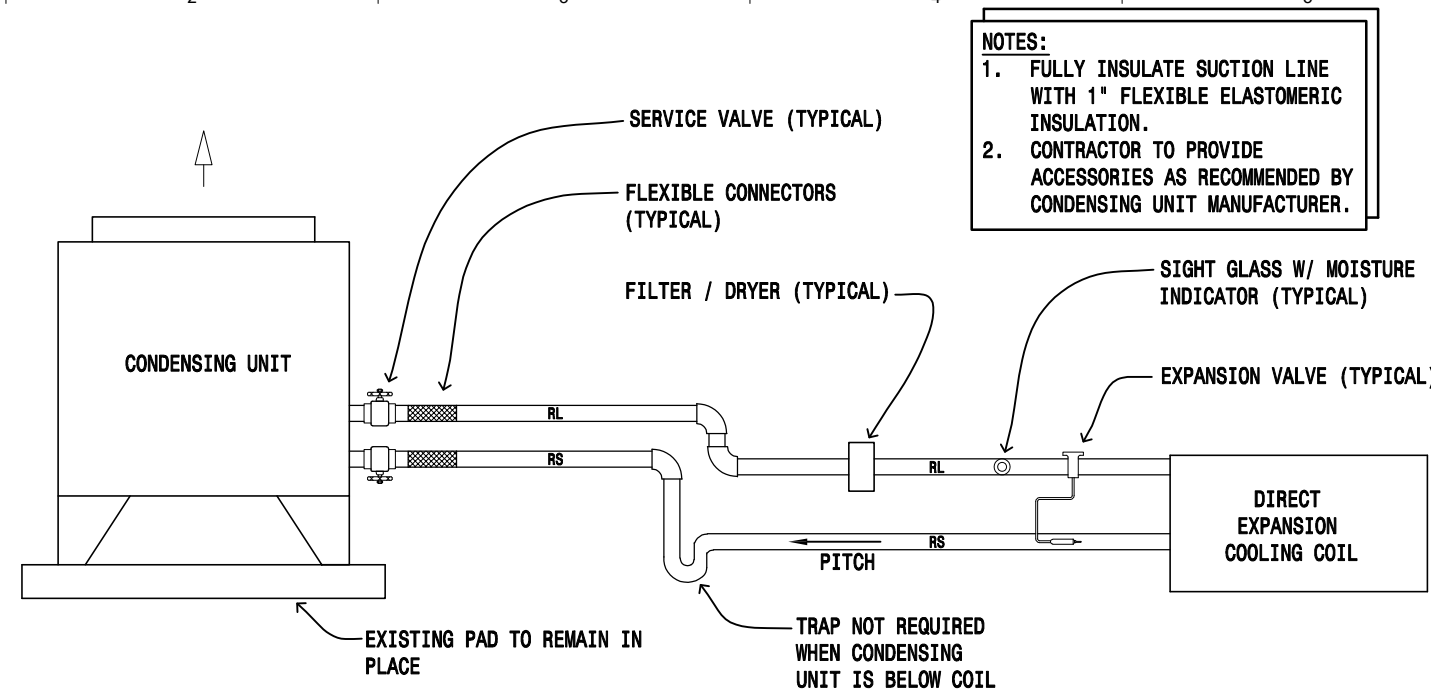


Date
July 31, 2026

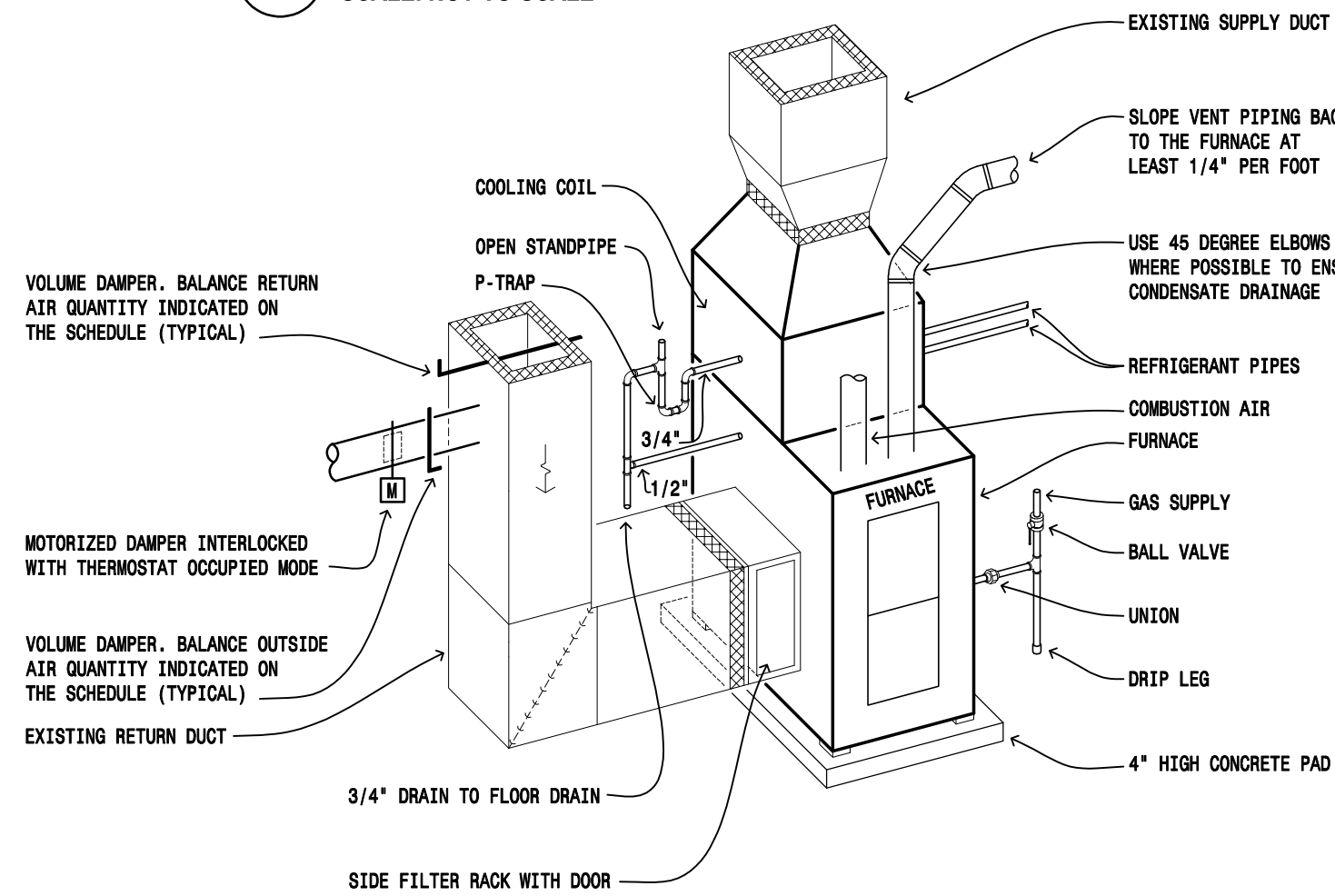
2508-4

Drawing Title
MAIN FLOOR PLAN - MECHANICAL

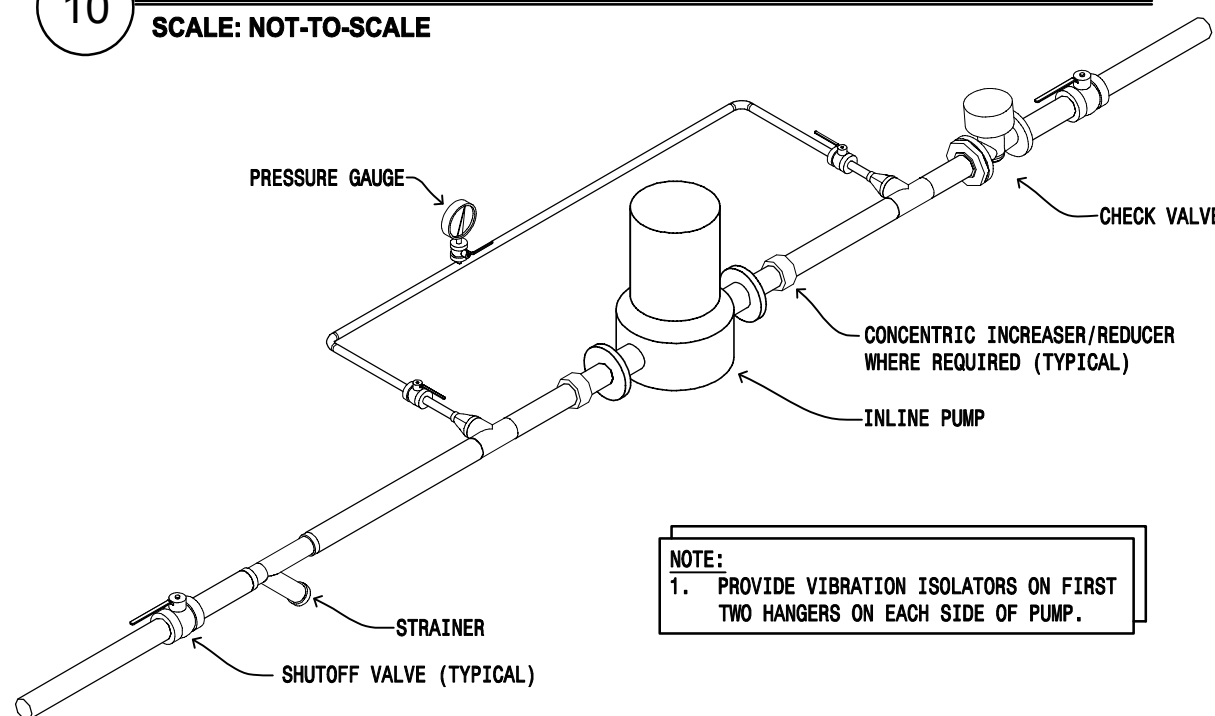
M301



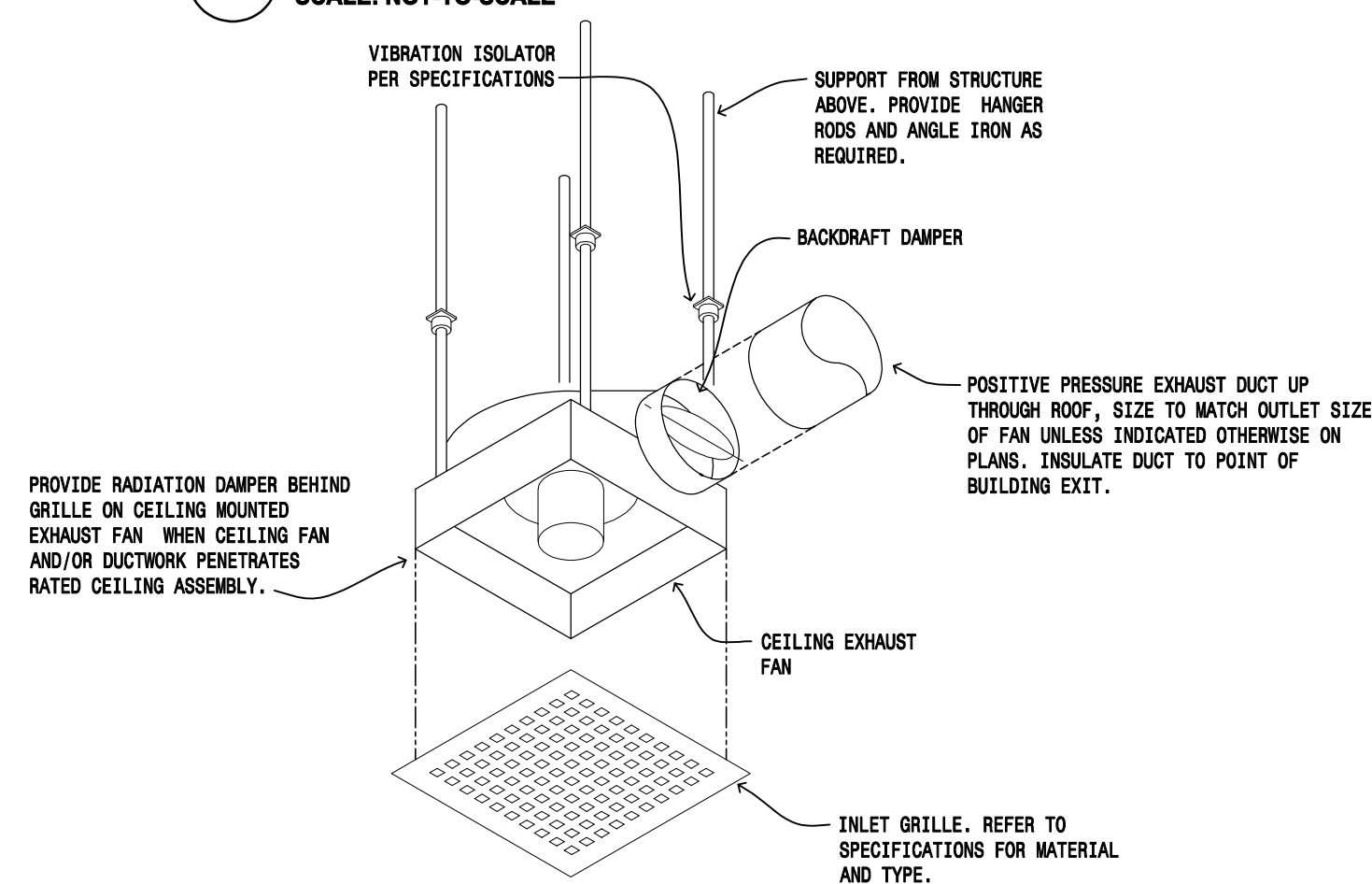
11 REFRIGERANT PIPING DETAIL
 SCALE: NOT-TO-SCALE



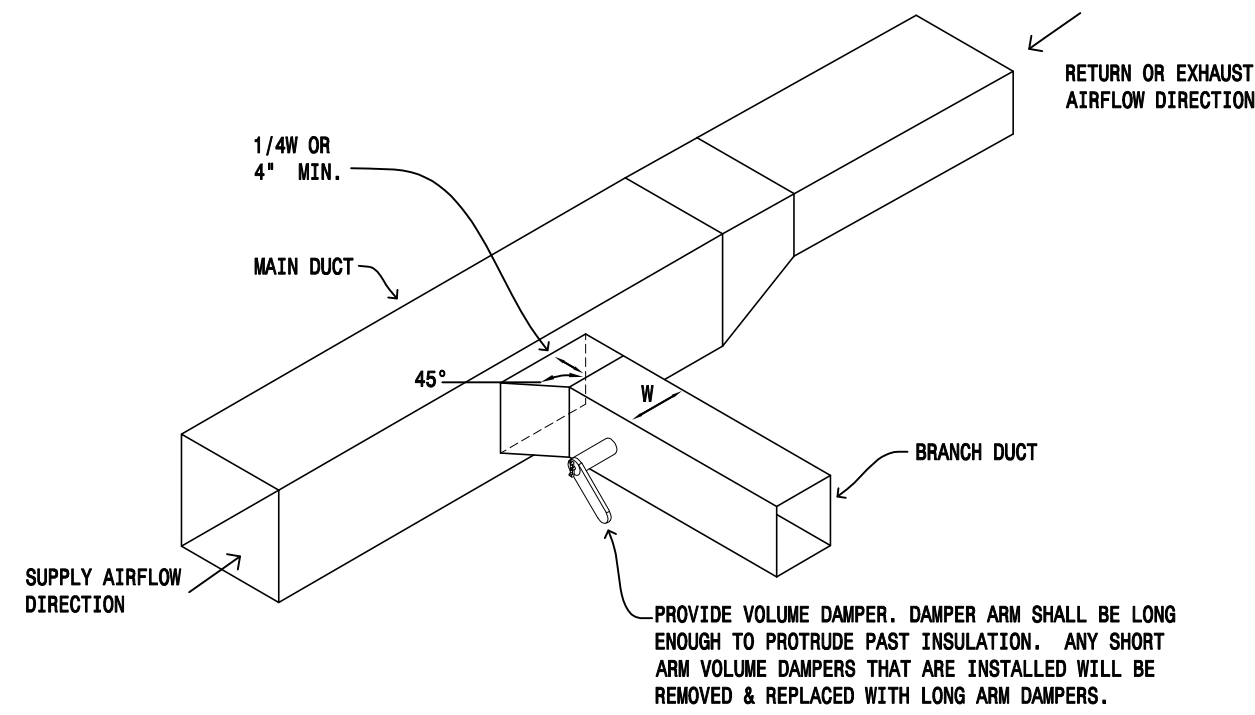
10 FURNACE DETAIL
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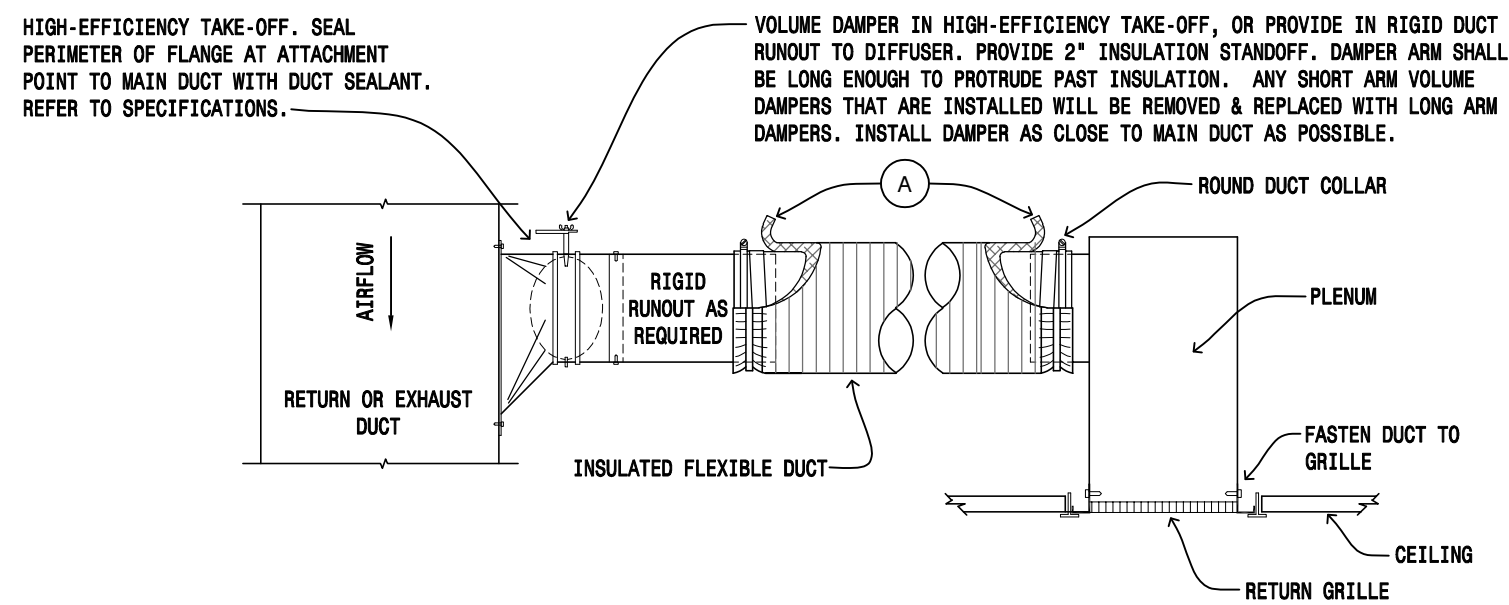
9 INLINE PUMP DETAIL
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8 CEILING EXHAUST FAN DETAIL
 SCALE: NOT-TO-SCALE



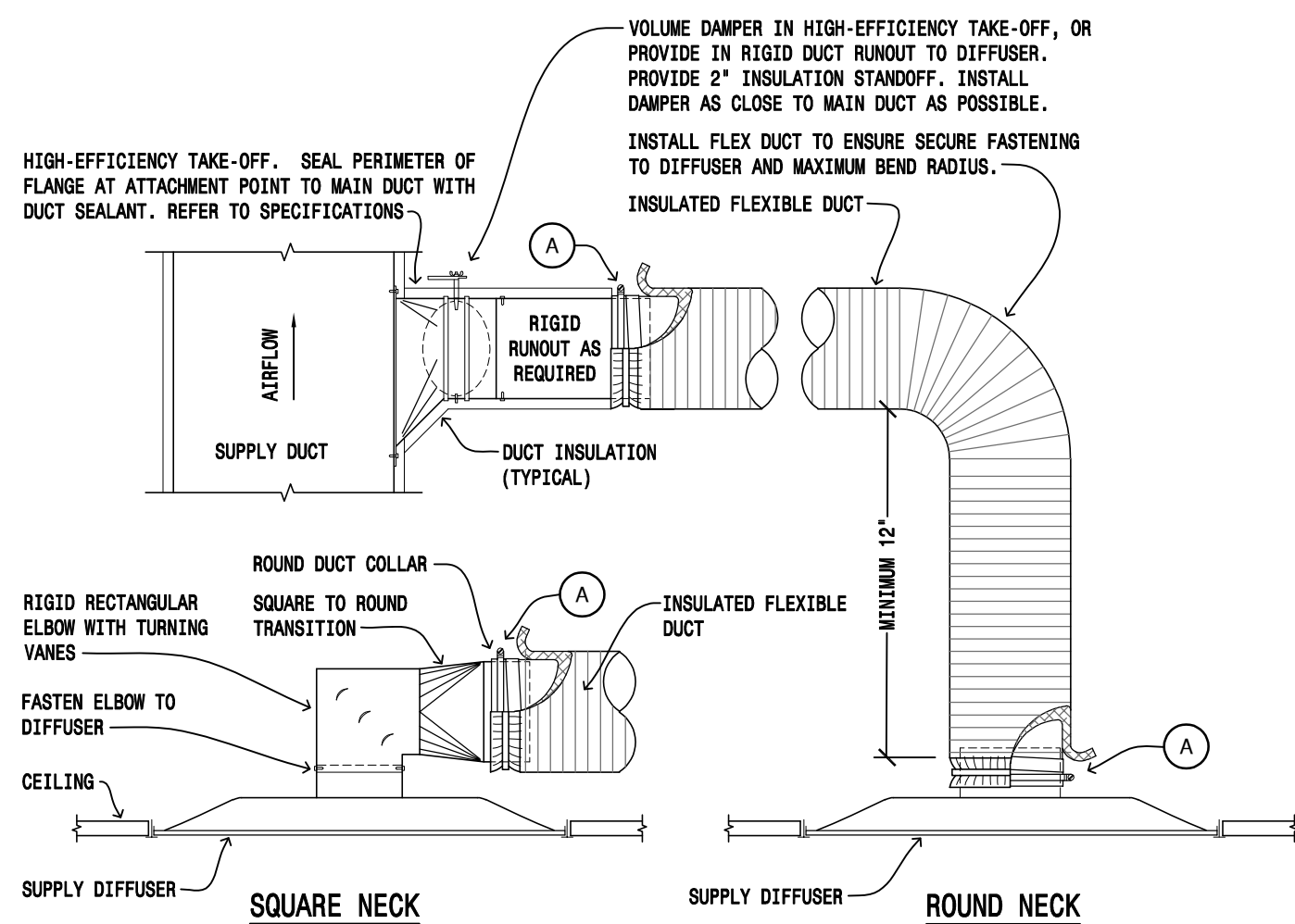
7 BRANCH DUCTWORK DETAIL
 SCALE: NOT-TO-SCALE



- GENERAL NOTES:**
 1. DUCT TAPES SHALL BE LISTED AND LABELED IN ACCORDANCE WITH STANDARD UL 1818 AND MARKED "1818-FX".
 2. HIGH EFFICIENCY TAKE-OFF AND RUNOUT MAY BE ROUND OR RECTANGULAR PROFILE. SEE PLANS FOR SIZE. PROVIDE SQUARE TO ROUND TRANSITION WHERE RECTANGULAR RUNOUT DUCTS ARE INDICATED.
 3. MAXIMUM LENGTH OF FLEXIBLE DUCT TO BE 8'-0". PROVIDE RIGID RUNOUT TO POINT WHERE FLEXIBLE DUCT MAX LENGTH CAN BE MAINTAINED. SUPPORT FLEXIBLE DUCT FROM STRUCTURE, REFER TO SPECIFICATIONS FOR REQUIREMENTS.
 4. REFER TO SPECIFICATIONS FOR DUCT SYSTEMS TO BE INSULATED. OMIT INSULATION WHERE NOT REQUIRED.

- KEY NOTES:**
 A PEEL BACK OUTER INSULATION OF FLEX DUCT AND SECURE INNER CORE TO RIGID DUCT OR DUCT COLLAR WITH 2 FULL WRAPS OF TAPE AND METAL SCREW BAND CLAMP OVER TAPE. PULL INSULATION AND JACKET BACK INTO POSITION AND SEAL ENDS WITH 2 FULL WRAPS OF TAPE AND METAL OR NONMETALLIC BAND CLAMP.

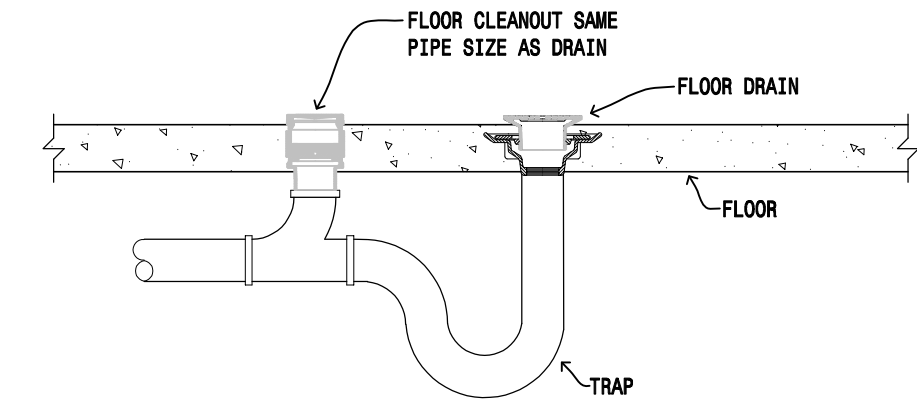
6 DUCTED RETURN OR EXHAUST GRILLE DETAIL
 SCALE: NOT-TO-SCALE



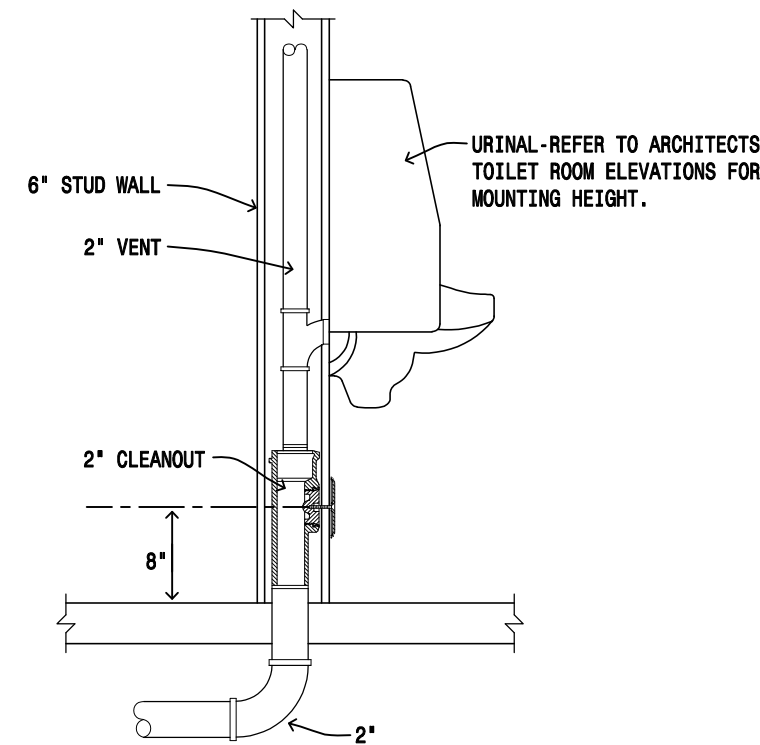
- GENERAL NOTES:**
 1. DUCT TAPES SHALL BE LISTED AND LABELED IN ACCORDANCE WITH STANDARD UL 1818 AND MARKED "1818-FX".
 2. HIGH EFFICIENCY TAKE-OFF AND RUNOUT MAY BE ROUND OR RECTANGULAR PROFILE. SEE PLANS FOR SIZE. PROVIDE SQUARE TO ROUND TRANSITION WHERE RECTANGULAR RUNOUT DUCTS ARE INDICATED.
 3. MAXIMUM LENGTH OF FLEXIBLE DUCT TO BE 5'-0". PROVIDE RIGID RUNOUT TO POINT WHERE FLEXIBLE DUCT MAX LENGTH CAN BE MAINTAINED. SUPPORT FLEXIBLE DUCT FROM STRUCTURE, REFER TO SPECIFICATIONS FOR REQUIREMENTS

- KEY NOTES:**
 A PEEL BACK OUTER INSULATION OF FLEX DUCT AND SECURE INNER CORE TO RIGID DUCT OR DUCT COLLAR WITH 2 FULL WRAPS OF TAPE AND METAL SCREW BAND CLAMP OVER TAPE. PULL INSULATION AND JACKET BACK INTO POSITION AND SEAL ENDS WITH 2 FULL WRAPS OF TAPE AND METAL OR NONMETALLIC BAND CLAMP.

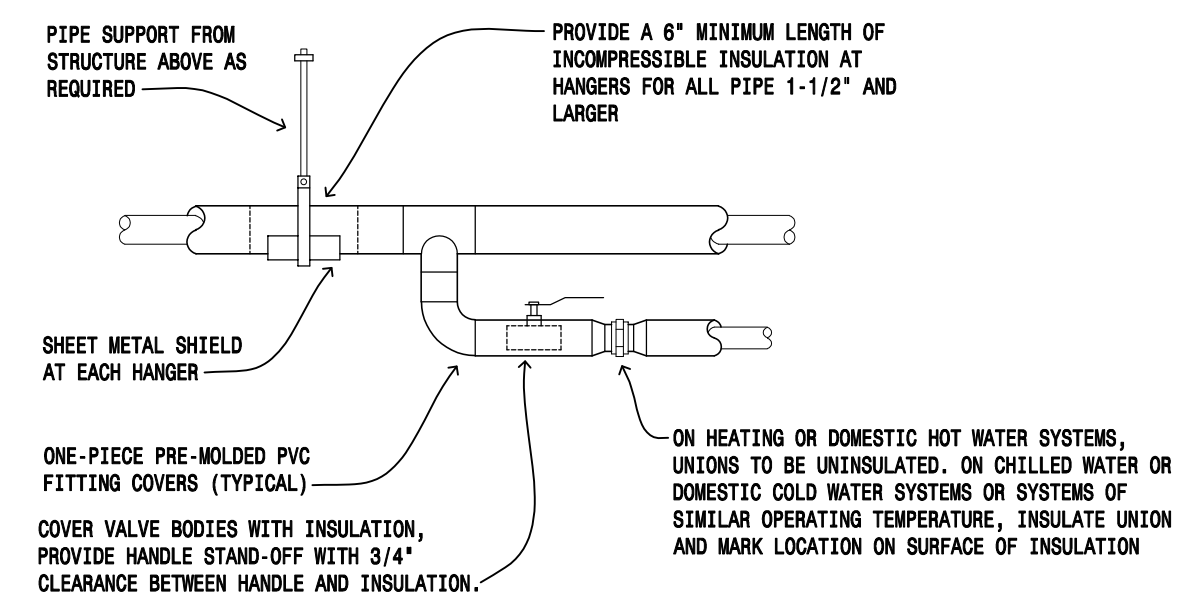
5 DIFFUSER INSTALLATION DETAIL
 SCALE: NOT-TO-SCALE



4 FLOOR DRAIN DETAIL
 SCALE: NOT-TO-SCALE

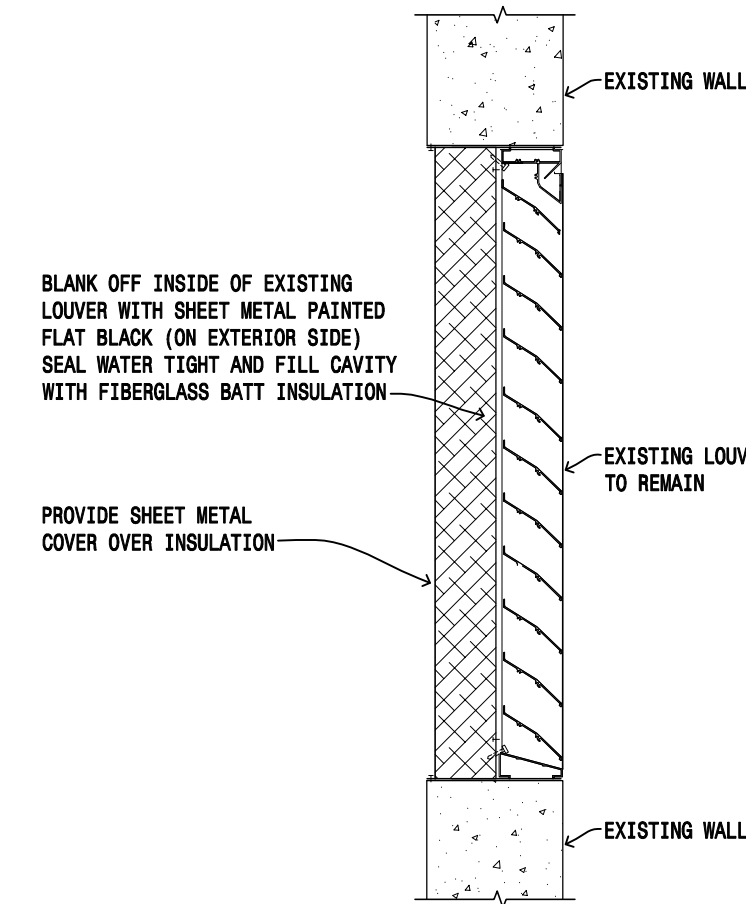


3 URINAL DETAIL
 SCALE: NOT-TO-SCALE



- NOTES:**
 1. PROVIDE TEMPORARY BLOCKING BETWEEN BOTTOM OF PIPE AND HANGER TO ALLOW SPACE FOR INSULATION. BLOCKING TO BE REMOVED UPON INSTALLATION OF INSULATION. IN LIEU OF THIS, THE CONTRACTOR MAY INSTALL A SECTION OF APPROPRIATE INSULATION AT THE HANGER PRIOR TO FINAL INSULATION OF THE COMPLETE SYSTEM. THE HANGER MUST BE PROPERLY SEPARATED FROM THE PIPING WHEN THE SYSTEM IS COMPLETE.
 2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING INSULATION AND PIPE SUPPORTS.
 3. SEAL AND TAPE ALL JOINTS AS INDICATED IN SPECIFICATIONS.

2 PIPING INSULATION DETAIL
 SCALE: NOT-TO-SCALE



1 LOUVER BLANK OFF DETAIL
 SCALE: NOT-TO-SCALE

BUILDING IMPROVEMENTS Building 3480

Camp Gilbert C. Grafton, Devils Lake
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NDNG Project NO. 2621

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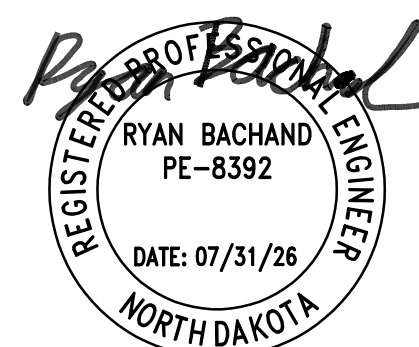
Shultz + Associates Architects
 612 1/2 Main Avenue
 Fargo, North Dakota
 701.476.0714 p

MECHANICAL ENGINEER

MBN Engineering
 701 Main Ave
 Fargo, North Dakota
 701.478.6336 p

ELECTRICAL ENGINEER

MBN Engineering
 701 Main Ave
 Fargo, North Dakota
 701.478.6336 p



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Date
 July 31, 2026

Drawing Title
 MECHANICAL DETAILS

2508-4

M401

ELECTRICAL SYMBOLS LEGEND														
LIGHTING			POWER			SYSTEMS			FIRE ALARM			MISC/ABBREVIATIONS		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	
A 3	CEILING SURFACE MOUNTED LIGHT FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, SMALL LETTER INDICATES SWITCHING.	6 INCHES ABOVE DOOR FRAME TO BOTTOM	C	DUPLEX RECEPTACLE ("C" INDICATES EMERGENCY CRITICAL BRANCH POWER)	18 INCHES	S	CEILING MOUNTED RECESSED SPEAKER	90 INCHES TO BOTTOM	HF	MANUAL STATION	48 INCHES	J	CEILING-MOUNTED JUNCTION BOX	
O	RECESSED CEILING MOUNTED LIGHT FIXTURE		C	DOUBLE DUPLEX RECEPTACLE ("C" INDICATES EMERGENCY CRITICAL BRANCH POWER)	18 INCHES	S	CEILING SURFACE MOUNTED SPEAKER		H	FIXED TEMPERATURE DETECTOR	H	WALL JUNCTION BOX		
O	WALL MOUNTED LIGHT FIXTURE, SURFACE OR RECESSED MOUNTED		A	TYPE 14-30 RECEPTACLE	48 INCHES	H	WALL MOUNTED SPEAKER		S	DUCT PHOTOELECTRIC DETECTOR	Dashed line with circle	DASHED LINES INDICATE EXISTING FIXTURES, DEVICES, OR EQUIPMENT		
O with arrow	CEILING EXIT SIGN, SHADED SIDE INDICATES LIGHTED FACE, ARROWS INSTALLED AS SHOWN		B	TYPE 6-30 RECEPTACLE	6 INCHES	C	CLOCK		S	PHOTOELECTRIC DETECTOR ('SB' INDICATES SOUNDER BASE, 'CO' INDICATES CARBON MONOXIDE DETECTION)	Hash marks	HASH MARKS INDICATE ITEM NOTED TO BE REMOVED		
O with X	WALL EXIT SIGN		G	GFCI TYPE RECEPTACLE	18 INCHES	C/S	CLOCK/SPEAKER UNIT		C	COMBINATION FIRE/SMOKE DAMPER OR SMOKE DAMPER BY DIVISION 23	Conduit symbol	CONDUIT CONCEALED IN WALL OR CEILING, QUANTITY OF CONDUCTORS NOT SHOWN, PROVIDE AS REQUIRED FOR DEVICE/CIRCUIT NUMBERS SHOWN.		
C in box	SUSPENDED FIXTURE		P	MULTI-OUTLET ASSEMBLY - M.O.A., PROVIDE DEVICES AS SHOWN ON PLANS	18 INCHES	H	MICROPHONE OUTLET		H	HORN WITH STROBE	Conduit up symbol	CONDUIT UP		
O in box	SURFACE 2X4		D	DUPLEX RECEPTACLE, HALF SWITCHED	18 INCHES	F	MICROPHONE FLOOR OUTLET		S	SPEAKER HORN WITH STROBE	Conduit down symbol	CONDUIT DOWN		
O with arrow in box	RECESSED 2X4		7 FOOT 6 INCHES	F	FLOOR BOX INSTALLED FLUSH IN FLOOR	48 INCHES	V		VOLUME CONTROL	A	MNS STROBE WITH AMBER LENS	Conduit concealed in floor symbol	CONDUIT CONCEALED IN FLOOR	
O with arrow in box	FIXTURE CONNECTED TO EMERGENCY LIFE SAFETY POWER WHEN SHADED			TS	TIME SWITCH		AMP		AMPLIFIER CABINET	D	STROBE LIGHT	Underground conduit symbol	UNDERGROUND CONDUIT AT 24 INCHES MINIMUM	
T in box	EMERGENCY BATTERY LIGHT			T	DRY TYPE TRANSFORMER		H		AUXILIARY INPUT OUTLET	M	FIRE ALARM MODULE/RELAY	Home run symbol	HOME RUN TO PANELBOARD, QUANTITY OF CONDUCTORS REQUIRED NOT INDICATED, PROVIDE QUANTITY AS REQUIRED FOR CIRCUIT NUMBERS SHOWN, SWITCHING ARRANGEMENT, OR NUMBER OF HOME RUNS SHOWN. "#10" INDICATES WIRE SIZE, NO NUMBERS INDICATES #12, 3/4 INCH CONDUIT MINIMUM.	
V in box	EMERGENCY REMOTE LAMP	FB		PUSH BUTTON	C		COMPUTER OUTLET (NUMBER INDICATES QUANTITY OF CABLES AND JACKS, NO NUMBER INDICATES ONE)	D	MAGNETIC DOOR HOLD OPEN	Surface conduit symbol	SURFACE CONDUIT OR SURFACE RACEWAY			
H in box	PHOTO CELL	9 FOOT	HC	POWER DOOR HANDICAP PUSH PAD	42 INCHES	AP	COMPUTER OUTLET FOR OWNER PROVIDED WIRELESS ACCESS POINT	I	INTEGRAL MAGNETIC DOOR CLOSER (PROVIDED BY DIVISION 8)	1	NOTE IDENTIFICATION			
M	CEILING MOUNTED MOTION SENSOR SWITCH	48 INCHES	B	EMERGENCY BOILER SHUTDOWN PUSH BUTTON	48 INCHES	W	TELEPHONE OUTLET ("W" INDICATES WALL MOUNTED AT 48 INCHES)	18 INCHES	S	SUPERVISORY SWITCH (NUMBER INDICATES NUMBER OF DEVICES AT THIS LOCATION)	BOTTOM OF LENS 80 INCHES BOTTOM OF LENS 80 INCHES BOTTOM OF LENS 80 INCHES	1	NOTE IDENTIFICATION	
H	WALL MOUNTED MOTION SENSOR SWITCH		E	THERMOSTAT - PROVIDED BY DIVISION 26	48 INCHES	A	COMPUTER/TELEPHONE OUTLET, PROVIDE ROUGH-IN AND CONDUIT ONLY	18 INCHES	PS	PRESSURE SWITCH		Wire basket symbol	WIRE BASKET TYPE CABLE TRAY	
M PP	MOTION SENSOR SWITCH POWER PACK		T	THERMOSTAT - FURNISHED AND INSTALLED BY DIVISION 23	48 INCHES	V	FLOOR MOUNTED COMMUNICATIONS OUTLET	48 INCHES	F	FLOW SWITCH		Communications cable symbol	COMMUNICATIONS CABLE SUPPORT HANGER	
C 2	CONTACTOR (NUMBER INDICATES NUMBER OF POLES)		\$	THERMAL SWITCH (MOTOR OVERLOAD TYPE)	48 INCHES	V	COMMUNICATIONS FLOOR OUTLET WITH FURNITURE WHIP		FP	FIRE ALARM CONTROL PANEL		A	AMPERE	
\$	SINGLE POLE (HORSEPOWER RATED WHEN USED AS MOTOR DISCONNECT)		\$	POWER POLE	48 INCHES	H	TELEVISION OUTLET		18 INCHES	ANN		FIRE ALARM ANNUNCIATOR	AC	ABOVE COUNTER
\$2	DOUBLE POLE		O	MOTOR (NUMBER REFERS TO MOTOR AND EQUIPMENT SCHEDULE SEE SCHEDULE FOR WIRING AND CONTROLLER REQUIREMENTS)		B	REQUEST TO EXIT RELAY BY DIV 08, CONNECTIONS BY DIV 26		LOC	LOCAL OPERATOR CONSOLE		AFF	ABOVE FINISHED FLOOR	
\$3	3-WAY		Lighting panel symbol	LIGHTING AND APPLIANCE PANELBOARD		D	DOOR POSITION SWITCH		48 INCHES	48 INCHES		AHU	AIR HANDLING UNIT	
\$4	4-WAY		Recessed lighting panel symbol	RECESSED LIGHTING AND APPLIANCE PANELBOARD		HR	CARD READER					C	CONDUIT	
\$u	OCCUPANCY SENSOR SWITCH		Switchboard symbol	SWITCHBOARD OR MOTOR CONTROL CENTER AS NOTED		B	ELECTRIC LATCH BY DIV 08, CONNECTIONS BY DIV 26					CUH	CABINET UNIT HEATER	
\$K	KEY OPERATED		Special equipment symbol	SPECIAL EQUIPMENT CABINET AS NOTED		S	ELECTRIC STRIKE BY DIV 08, CONNECTIONS BY DIV 26					EF	EXHAUST FAN	
\$P	WITH PILOT LIGHT (CAN BE USED WITH OTHER SWITCH TYPES)	Enclosed breaker symbol	ENCLOSED MOLDED CASE CIRCUIT BREAKER	C		SURVEILLANCE CAMERA	EWC				ELECTRIC WATER COOLER			
\$D	FLUORESCENT DIMMER	VFD symbol	VARIABLE FREQUENCY DRIVE	H		AREA OF REFUGE STATION	FA				FIRE ALARM			
\$uc	MOMENTARY CONTACT	Non-fused disconnect symbol	NON-FUSED DISCONNECT	48 INCHES		48 INCHES	48 INCHES	48 INCHES			GFCI	GFCI		
Ø	DIMMER (600 WATT UNLESS OTHERWISE NOTED)	F	FUSED DISCONNECT								GR	GROUND FAULT CIRCUIT INTERRUPTER		
\$	LIGHTING INTENSITY SELECTOR PANEL	M	MAGNETIC STARTER		PH						PHASE			
\$v	LOW VOLTAGE SWITCH	MS	COMBINATION STARTER-DISCONNECT		TV						TELEVISION			
												XST	EXISTING	
NOTES: 1. THIS IS A COMPREHENSIVE SYMBOL SCHEDULE. NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS OR DEVICES SHOWN AS 48 INCHES MOUNTING HEIGHT, WHEN INSTALLED IN MASONRY BLOCK WALLS, MOUNTING AT 48 INCHES TO THE TOP OF THE OUTLET BOX IS ACCEPTABLE. 2. MOUNTING HEIGHT IS TO THE CENTER OF DEVICE UNLESS OTHERWISE INDICATED.														

LUMINAIRE SCHEDULE											
TYPE	MANUFACTURERS	CATALOG INFORMATION	FIXTURE DESCRIPTION	LED DATA		DRIVER DATA		INPUT WATTS	VOLTAGE	MOUNTING	REMARKS
				NO.	TYPE	NO.	TYPE				
A	LITHONIA	2BLT SERIES	2 FOOT X 4 FOOT DIRECT/INDIRECT LAY-IN LED, CENTER PRISMATIC DIFFUSER, WHITE FINISH. 0-10V DIMMING DRIVER STANDARD.	1	4000K LED LUMENS	6000	1	0-10V DIMMING LED DRIVER	46	MVOLT	RECESSED
	METALUX	24CZ SERIES									
	WILLIAMS	DI SERIES									
	APPROVED EQUAL										
C	LITHONIA	STLED SERIES	4 FOOT LINEAR LED VOLUMETRIC WRAP FIXTURE, WHITE ACRYLIC DIFFUSER, WHITE FINISH.		4000K LED LUMENS	8000		0-10V DIMMING LED DRIVER	40	MVOLT	SURFACE
	METALUX	ACHIEVA SERIES									
	WILLIAMS	39 WRAP SERIES									
	APPROVED EQUAL										
D	LITHONIA	WF6 SERIES	6 INCH SHALLOW WAFER DOWNLIGHT, SELECTABLE COLOR TEMP AND LUMEN PACKAGE, IC RATED REMOTE DRIVER, EDGE LIT, 0-10V DIMMING.		4000K LED LUMENS	1100		0-10V DIMMING LED DRIVER	14	MVOLT	RECESSED
	OR EQUAL										
E	LITHONIA	LHQM SERIES	SINGLE FACE LED EXIT LUMINAIRE, DIE CAST ALUMINUM HOUSING, WHITE FINISH, GREEN LETTERS, SELF-DIAGNOSTIC, INTEGRAL BATTERY AND EMERGENCY HEADS		INCLUDED				3	MVOLT	UNIVERSAL
	OR EQUAL										
EM	LITHONIA	EU2L SERIES	EMERGENCY BATTERY PACK WITH (2) 1W LED LAMPS, 90 MINUTE LEAD-CALCIUM BATTERY, SELF-DIAGNOSTICS, WHITE POLYCARBONATE HOUSING.	2	3W LED			LED DRIVER	6	MVOLT	WALL
	OR EQUAL										
F	LITHONIA	CSS SERIES	4 FOOT NARROW LINEAR LED FIXTURE, STEEL HOUSING, ROUND DIFFUSE LENS, STANDARD DISTRIBUTION, WHITE FINISH.	1	4000K LED LUMENS	4000		0-10V DIMMING LED DRIVER	35	MVOLT	UNIVERSAL
	OR EQUAL										

	ROOM LIGHTING CONTROL SCHEDULE	
ROOM	OPERATION	NOTES
CLASSROOMS	FIXTURES TO BE CONTROLLED WITH WALL SWITCH WITH DIMMING. OCCUPANCY SENSOR TO OPERATE WITH MANUAL ON AND VACANCY OFF OPERATION.	
CONFERENCE ROOM	FIXTURES TO BE CONTROLLED BY WALL MOUNTED CONTROL SWITCH, WITH TWO PRESETS, DIMMING, AND MANUAL ON AND VACANCY OFF OPERATION.	
ELEC/MECH ROOMS	FIXTURES TO BE CONTROLLED BY MANUAL TOGGLE SWITCH.	
STORAGE ROOMS	FIXTURES TO BE CONTROLLED BY OCCUPANCY SENSOR, WITH AUTO ON AND VACANCY OFF OPERATION.	
OFFICES	FIXTURES TO BE CONTROLLED VIA WALL SWITCH WITH DIMMING AND INTEGRAL OCCUPANCY SENSOR, WITH MANUAL ON AND VACANCY OFF OPERATION	
RESTROOMS	FIXTURES TO BE CONTROLLED BY OCCUPANCY SENSOR, WITH AUTO ON AND VACANCY OFF OPERATION.	

LIGHTING CONTROLS SYMBOL SCHEDULE			
TYPE/SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION
\$LV	ACUITY	NPODMA	ON/OFF CONTROL
\$LVD	ACUITY	NPODMA DX	(1) ZONE WITH RAISE/LOWER
\$LV2D	ACUITY	NPODMA 2S DX	(2) ZONES OF CONTROL WITH RAISE/LOWER
Ⓜ	ACUITY	NCM PDT	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
ⓂA	ACUITY	CMR	CEILING MOUNTED PASSIVE INFRARED LINE VOLTAGE OCCUPANCY SENSOR
\$W	ACUITY	WSXA	PASSIVE INFRARED WALL VACANCY SWITCH
\$WD	ACUITY	WSXA	PASSIVE INFRARED WALL VACANCY SWITCH WITH DIMMING
RQ x	ACUITY	nP SERIES	0-10V DIMMING ROOM CONTROLLER RELAY,'x' INDICATES ZONE

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Building 3480

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NDNG Project NO. 2621

ARCHITECT

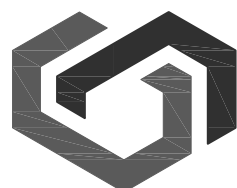
Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

MECHANICAL ENGINEER

MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

ELECTRICAL ENGINEER

MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p



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Date
July 31, 2026

Drawing Title
ELECTRICAL SYMBOL LEGEND AND SCHEDULES

E001

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ARCHITECT

Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

MECHANICAL ENGINEER

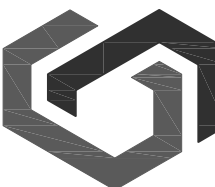
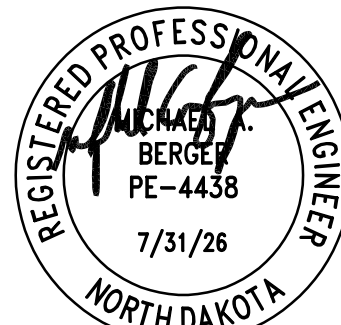
MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

ELECTRICAL ENGINEER

MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

PLAN NOTES:

- REMOVE EXISTING PANEL AND ASSOCIATED FEEDER CONDUCTORS BACK TO SOURCE PANEL. ALL EXISTING LOADS SERVED BY PANEL L3 TO BE TO BE REMOVED DURING DEMOLITION.
- REMOVE EXISTING DEVICES, BACKBOX MAY BE REUSED FOR NEW DEVICE IN SAME LOCATION.
- EXISTING WALL MOUNTED RACK TO BE REPLACED BY NEW CABINET IN SIMILAR LOCATION. SALVAGE EXISTING BUILDING ENTRANCE CABLING PATCH PANELS AND RELOCATE TO NEW RACK.
- REMOVE SURFACE MOUNTED DEVICE AND RACEWAY IN ITS ENTIRETY. MOST KITCHEN EQUIPMENT HAS BEEN REMOVED, DIVISION 26 IS RESPONSIBLE FOR REMOVAL OF ALL DISCONNECTS AND WIRING BACK TO SOURCE PANEL.



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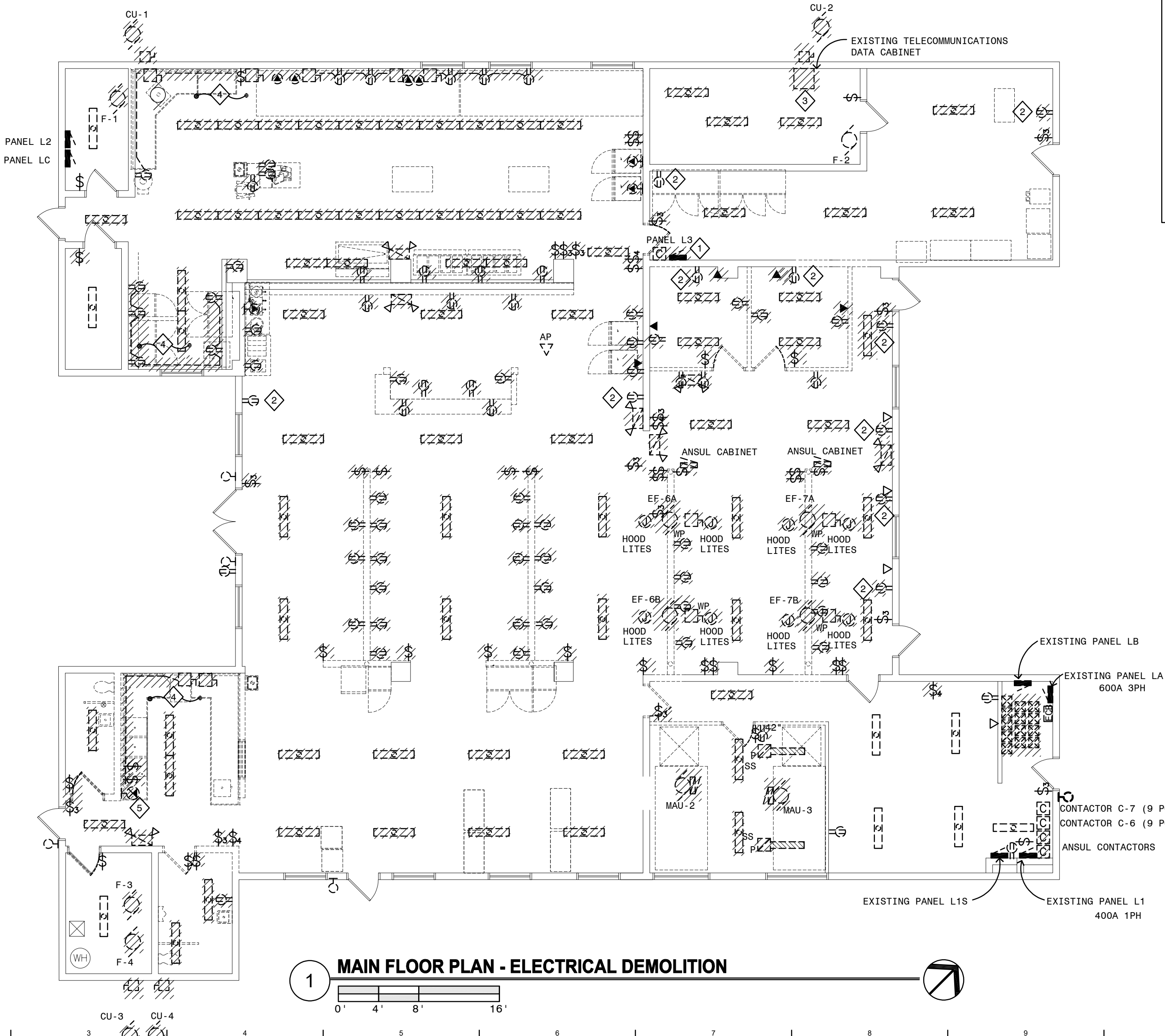
2508-4

Drawing Title
ELECTRICAL DEMOLITION PLAN

E100

GENERAL NOTES:

- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPORTING AND REINSTALLING CEILING ELECTRICAL DEVICES WHERE CEILINGS ARE TO BE REMOVED AND REPLACED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
- DASHED DEVICES INDICATE EXISTING ITEMS. SEE PLAN NOTES FOR ITEMS TO BE SALVAGED AND REINSTALLED.
- ITEMS WITH HATCHING INDICATE THAT THE DEVICE SHALL BE DEMOLISHED. REMOVE EXISTING WIRING TO ITS SOURCE UNLESS OTHERWISE NOTED TO REMAIN FOR RECONNECTION TO NEW DEVICES.
- ADDITIONAL ITEMS NOT SHOWN ON PLANS SHALL BE IDENTIFIED AND BROUGHT TO THE ENGINEERS ATTENTION FOR INSTRUCTION ON WHAT ACTION SHALL BE TAKEN. ALL DEMOLITION IN REMODEL AREAS SHALL BE INCLUDED IN THE CONTRACT.
- PROVIDE SUPPORT FOR ANY REMAINING CABLING, CONDUIT, OR OTHER WIRING SYSTEMS.
- EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES, PANEL BOARDS ETC TO BE DEMOLISHED SHALL BE TURNED OVER TO OWNER FOR ACCEPTANCE OR REFUSAL. ALL MATERIAL REJECTED SHALL BE PROPERLY DISPOSED OF BY THE DIVISION 26 CONTRACTOR. ALL GFCI RECEPTACLES SHALL BE TURNED OVER TO THE OWNER FOR THEIR USE.
- ALL EXISTING WIRING/CONDUITS TO BE DEMOLISHED WITHIN THE SCOPE OF THIS PROJECT SHALL BE REMOVED BACK TO SOURCE. SOME NEW CONDUCTOR/CONDUITS MAY BE REQUIRED TO CONNECT EXISTING RECEPTACLES, LIGHTING AND SYSTEMS DEVICES DEACTIVATED DURING DEMOLITION. SEE SECTION 26 0512.
- SEE ARCHITECTURAL CODE SHEET FOR RATED WALL LOCATIONS. PROVIDE U.L. LISTED IN-FILL AND FIRE STOPPING FOR ALL NEW AND REMOVED CONDUITS AND SLEEVES THROUGH THESE WALLS. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE STOPPING FOR ALL EXISTING CONDUIT AND SLEEVE PENETRATIONS OF FIRE-RATED WALL.
- EXISTING CONDITIONS INSIDE AND OUTSIDE OF THE BUILDING SHALL BE DOCUMENTED BY THE ELECTRICAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DAMAGE IN THE AREA OF THE BUILDING INVOLVED IN CONSTRUCTION OR ACCESS TO THE AREA OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO NEW CONDITION BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND LOCATION FOR ALL EXISTING ELECTRICAL SYSTEMS. COORDINATE WITH ALL ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ANY DEMOLITION WORK.
- CORE DRILLING, SAWCUT OPENINGS, AND EXCAVATION REQUIRED FOR ELECTRICAL INSTALLATIONS SHALL BE BY THE ELECTRICAL CONTRACTOR. REPAIR AND PAINT ANY PATCHING, SPALLING, OR OVERCUTS FROM MAKING THE NEW OPENINGS. ALL PATCHED OPENINGS SHALL BE FINISHED TO MATCH EXISTING FINISHES.



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ARCHITECT

Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

MECHANICAL ENGINEER

MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

ELECTRICAL ENGINEER

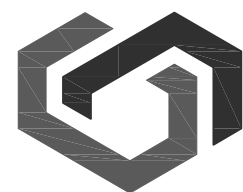
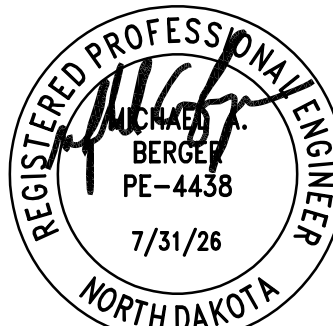
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701 Main Ave
Fargo, North Dakota
701.478.6336 p

GENERAL NOTES:

- CONTRACTOR TO PROVIDE ALL PROGRAMMING OF THE LIGHTING CONTROL SYSTEM IN THEIR BID. CONTRACTOR SHALL TRAIN THE OWNER ON CONFIGURATION OF THE SYSTEM, AND SHALL PROVIDE ALL REQUIRED SOFTWARE FOR THE OWNER'S USE.

PLAN NOTES:

- RECONNECT LIGHT FIXTURES TO EXISTING CIRCUIT, EXTEND WIRING AND CONDUIT AS REQUIRED.
- SEE DETAIL 2/E200 FOR LOW VOLTAGE LIGHTING CONTROL REQUIREMENTS.
- CONNECT TO UNSWITCHED LIGHT CIRCUIT.
- CONNECT EXHAUST FAN TO ROOM OCCUPANCY SENSOR, SEE SHEET E300.



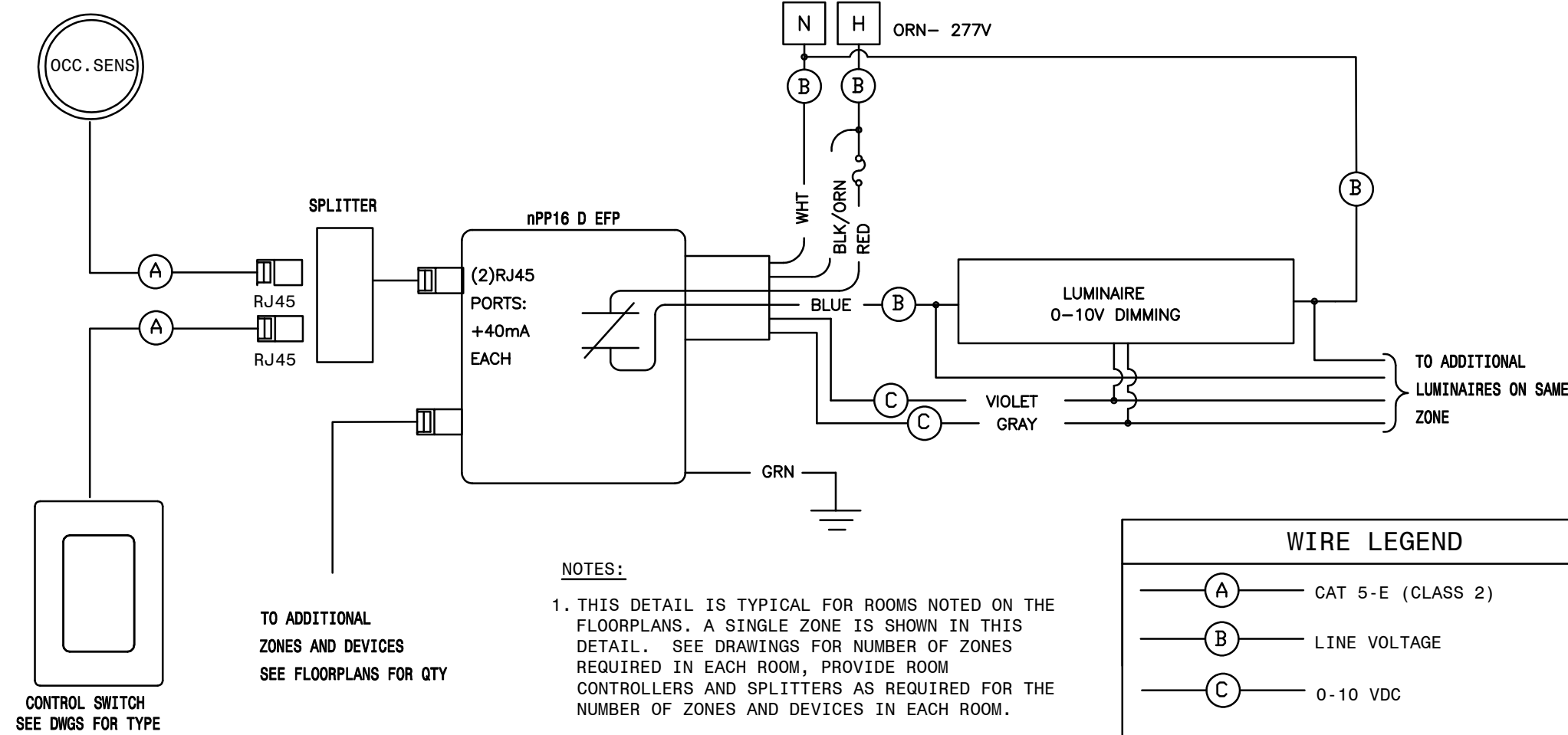
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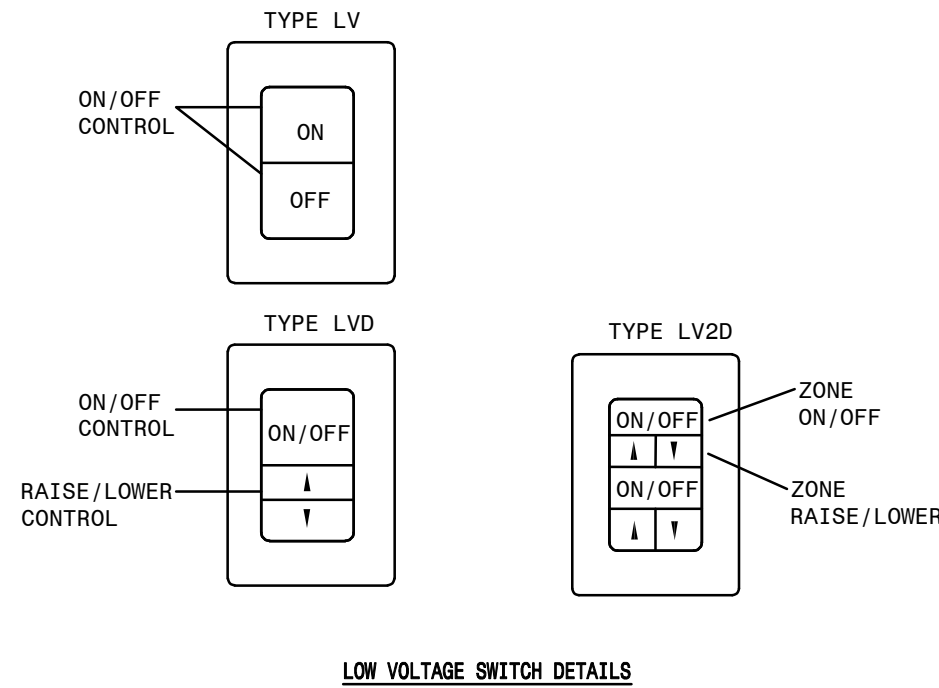
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Drawing Title
MAIN FLOOR PLAN - LIGHTING

E200

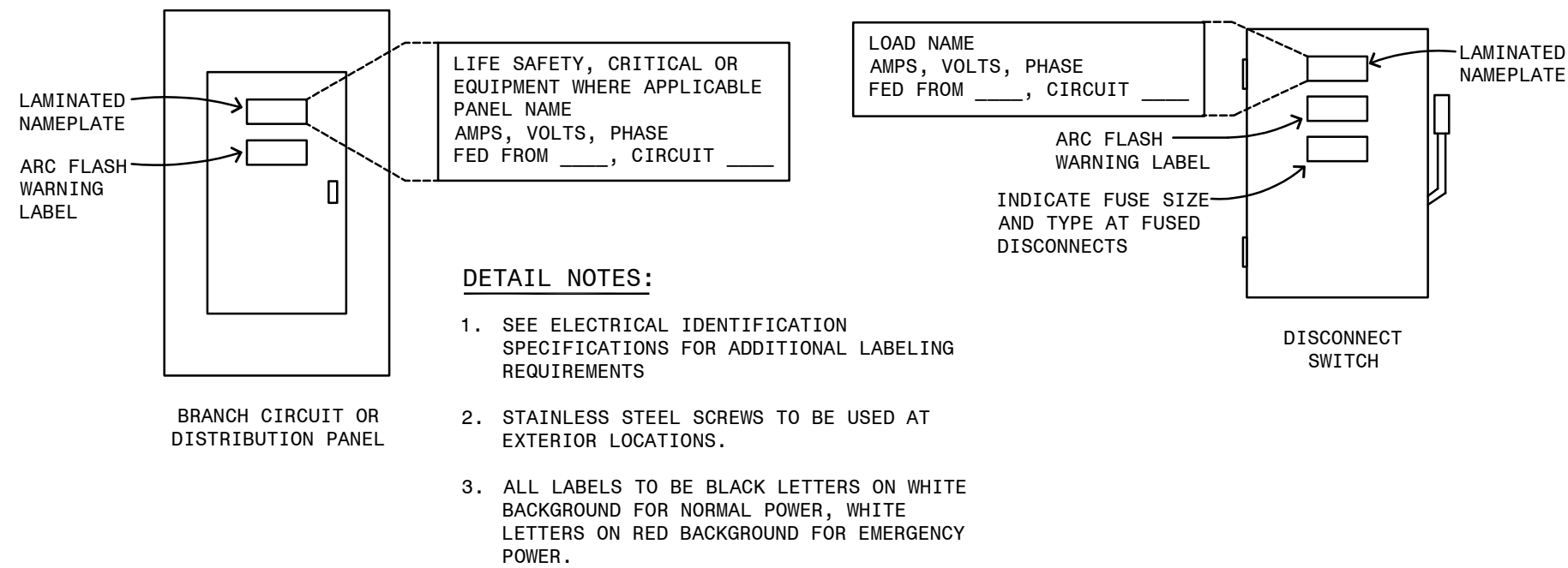


WIRE LEGEND	
(A)	CAT 5-E (CLASS 2)
(B)	LINE VOLTAGE
(C)	0-10 VDC

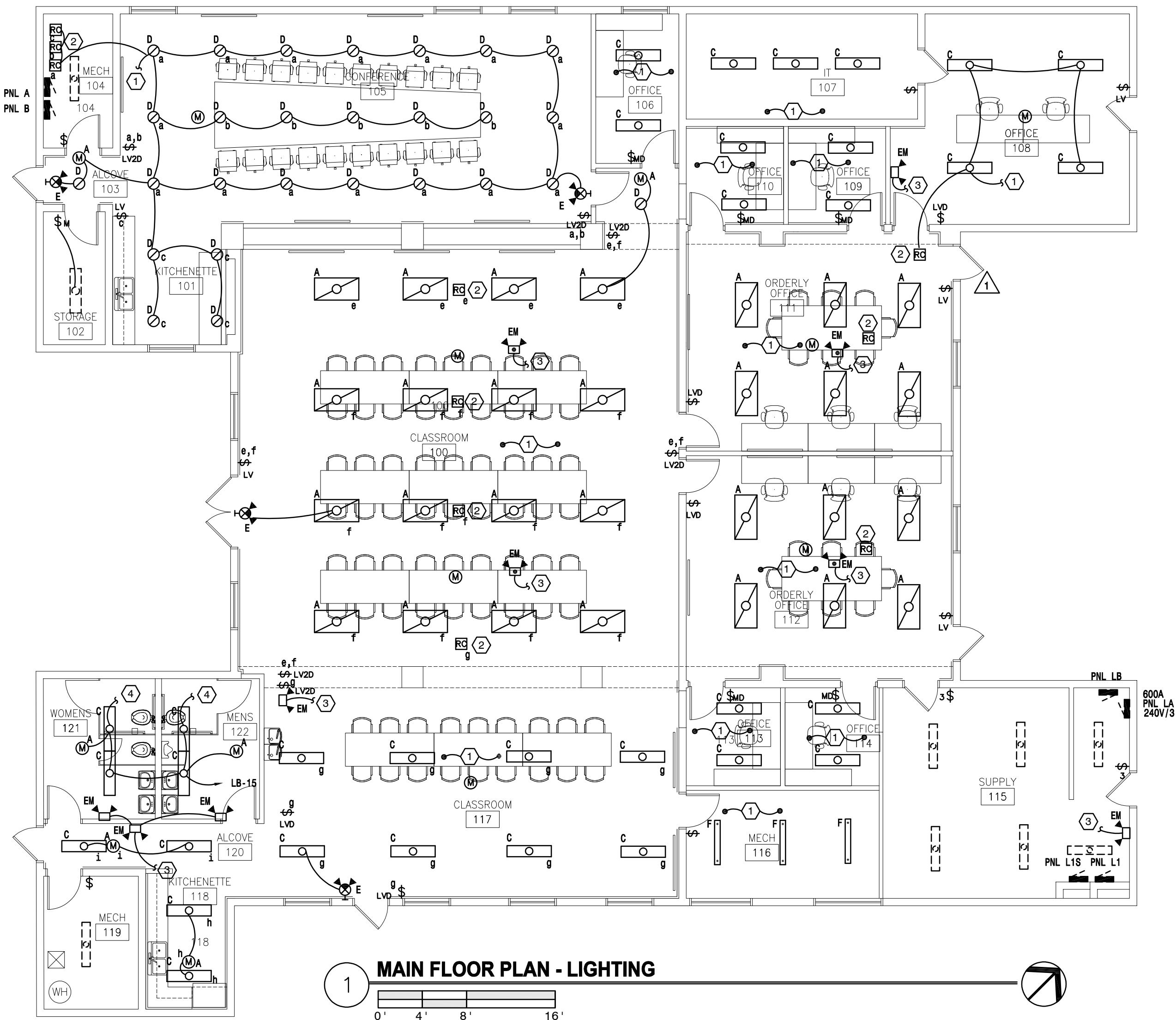


2 TYPICAL LOW VOLTAGE LIGHTING CONTROL SYSTEM WITH 0-10V DIMMING
NOT TO SCALE

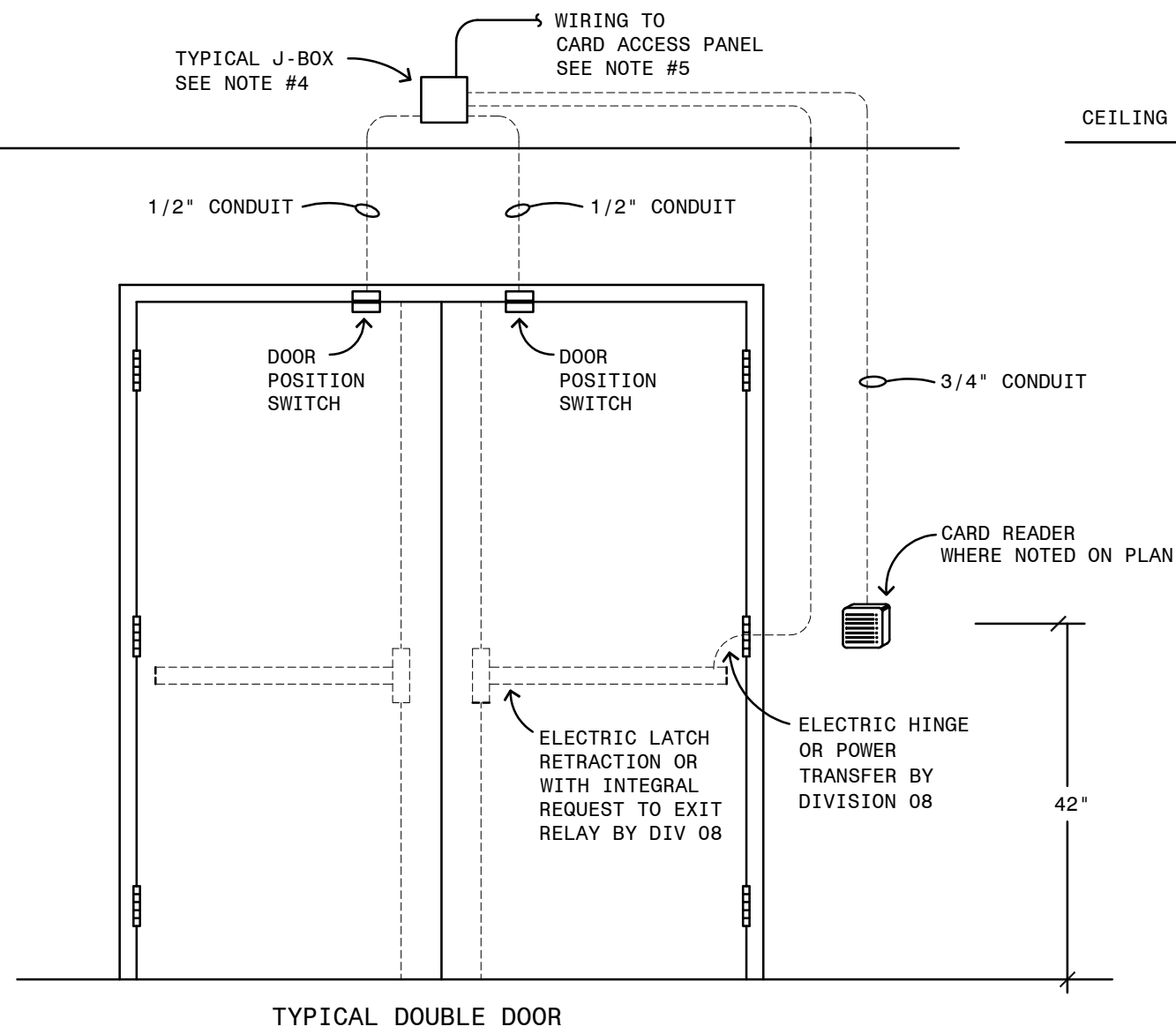
3 TYPICAL LOW VOLTAGE LIGHTING CONTROL SWITCHES
NOT TO SCALE



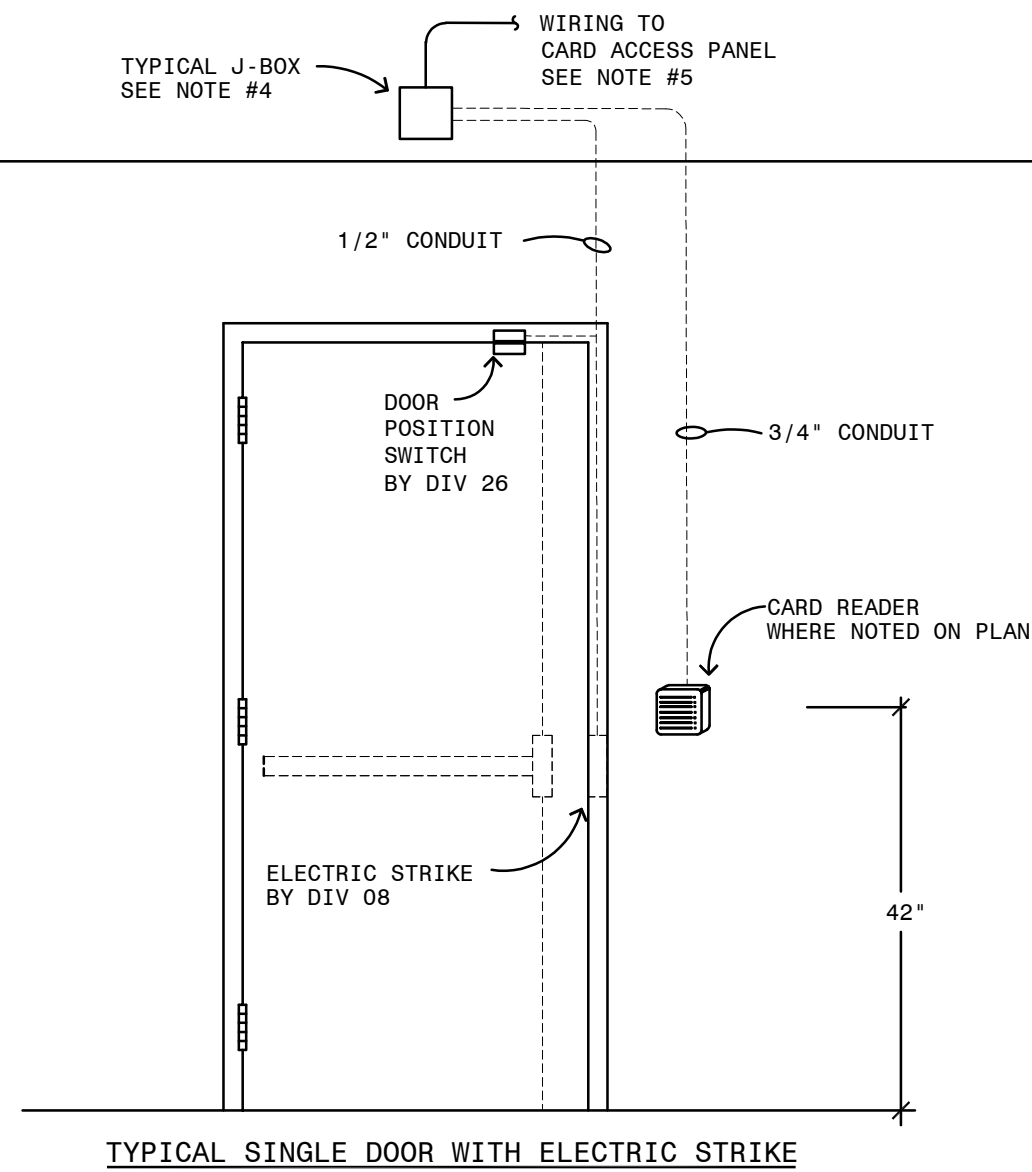
4 ELECTRICAL EQUIPMENT NAMEPLATE DETAIL
NOT TO SCALE



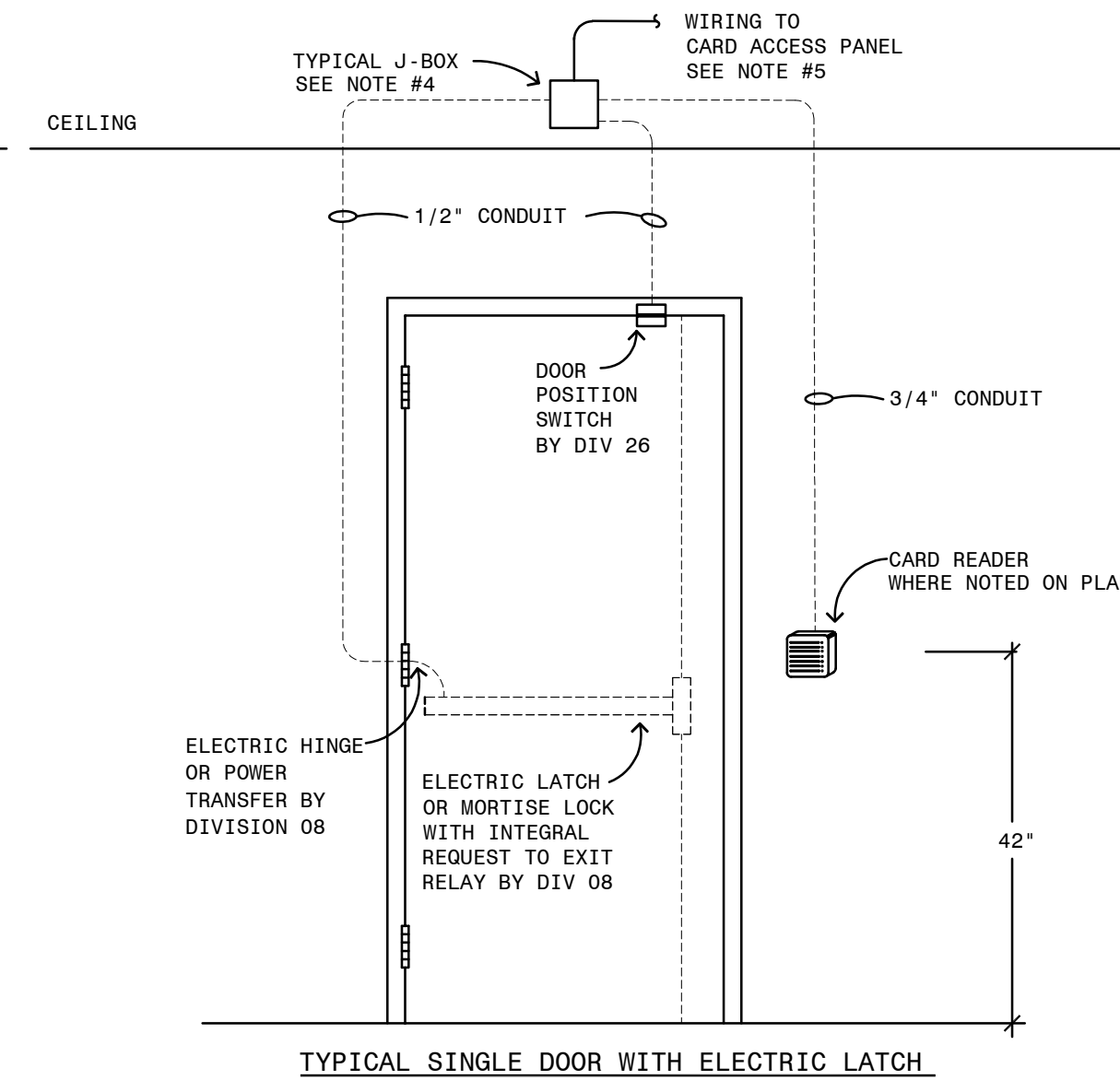
1 MAIN FLOOR PLAN - LIGHTING



4 **TYPICAL CARD ACCESS DOOR DETAIL**
NOT TO SCALE

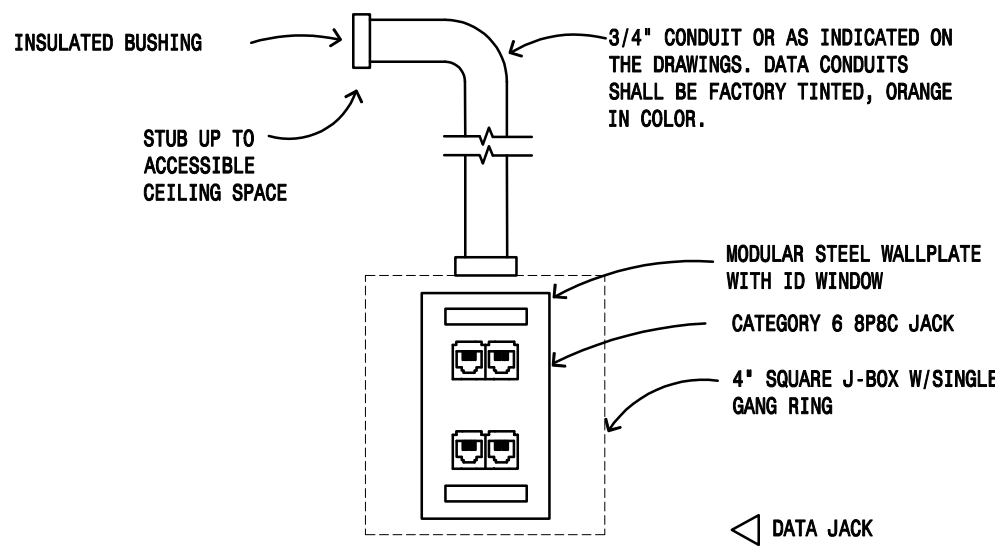


TYPICAL SINGLE DOOR WITH ELECTRIC STRIKE



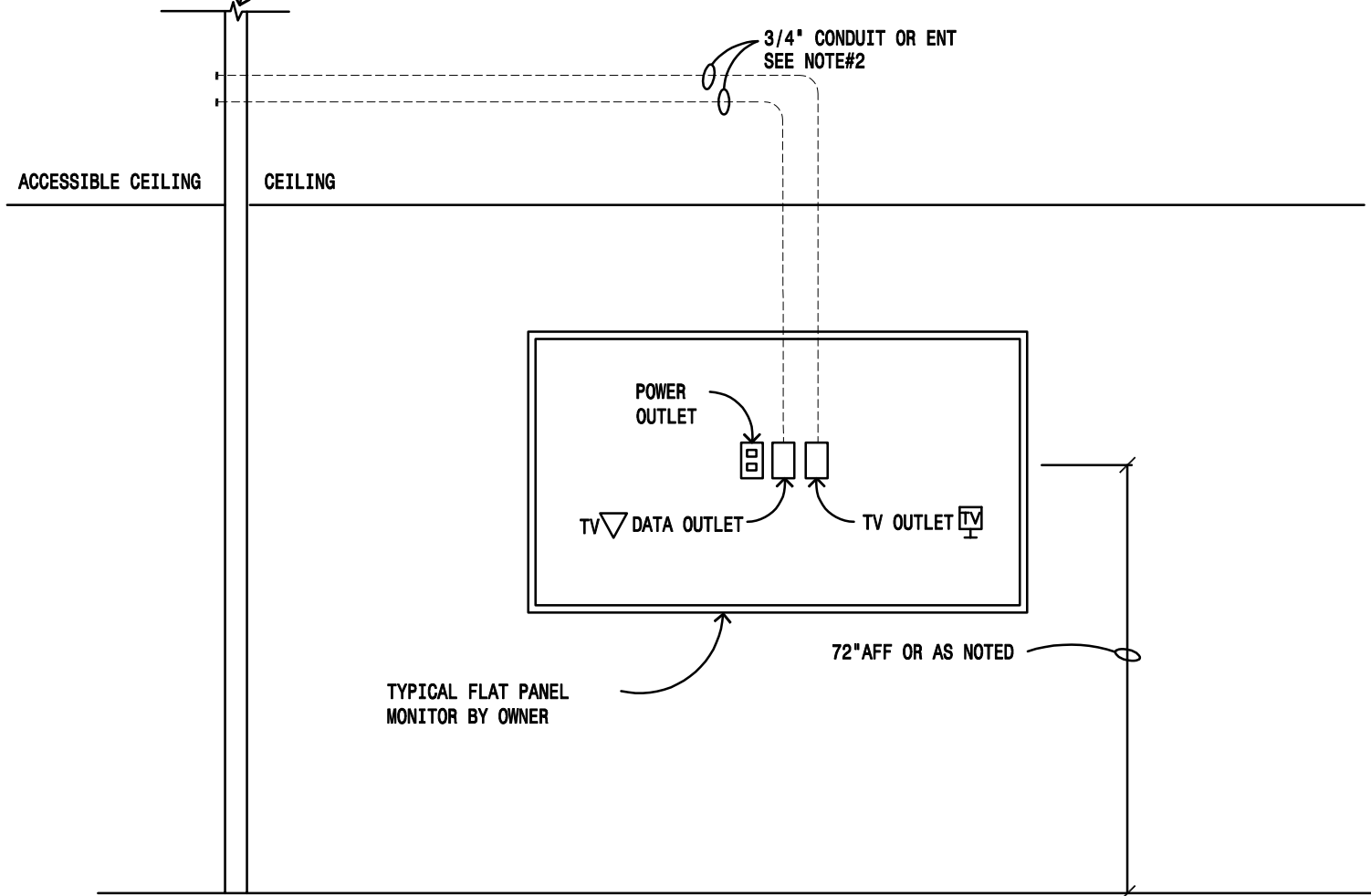
TYPICAL SINGLE DOOR WITH ELECTRIC LATCH

- DETAIL NOTES:**
- ALL WIRING/CONDUIT AT DOORS SHALL BE CONCEALED UNLESS NOTED OTHERWISE. FLEXIBLE CONDUIT MAY BE USED DOWN EXISTING WALLS FROM THE ATTIC SPACE.
 - THESE DETAILS SHOW A TYPICAL INSTALLATION, VERIFY EXACT WIRING REQUIREMENTS WITH ELECTRIC LOCK AND THE SECURITY SYSTEM MANUFACTURERS PRIOR TO ROUGH IN.
 - PROVIDE A COMPOSITE CARD ACCESS CABLE TO EACH DOOR, WITH CONNECTIONS FOR DEVICES SHOWN.
 - DO NOT SPLICE ACCESS CONTROL CABLES IN THE JUNCTION BOX ABOVE THE DOOR. REMOVE THE INSULATION OF THE COMPOSITE CABLE, AND ROUTE EACH CABLE BUNDLE TO THE APPROPRIATE DEVICE WITHOUT SPLICING.
 - CARD ACCESS CABLING MAY BE FREE-AIRED ABOVE ACCESSIBLE CEILINGS, PROVIDE J-HOOKS AT MAXIMUM OF 4 FEET FOR SUPPORTING CABLE BUNDLES. IN AREAS WITH GYP OR PLYWOOD CEILINGS THE CONTRACTOR SHALL PROVIDE A CONDUIT FROM THE JUNCTION BOX TO THE ACP OR TO AND ADJACENT AREA WITH ACCESSIBLE CEILING.
- ◇ - DOOR POSITION SWITCH (BY DIV 26)
 □ - ELECTRIC LATCH (EQUIPMENT BY DIV 08, WIRING BY DIV 26)
 □ - ELECTRIC STRIKE BY DIV 08, WIRING BY DIV 26
 ◇ - REQUEST TO EXIT RELAY BY DIV 08, WIRING BY DIV 26
 □ - CARD READER (BY DIV 26)



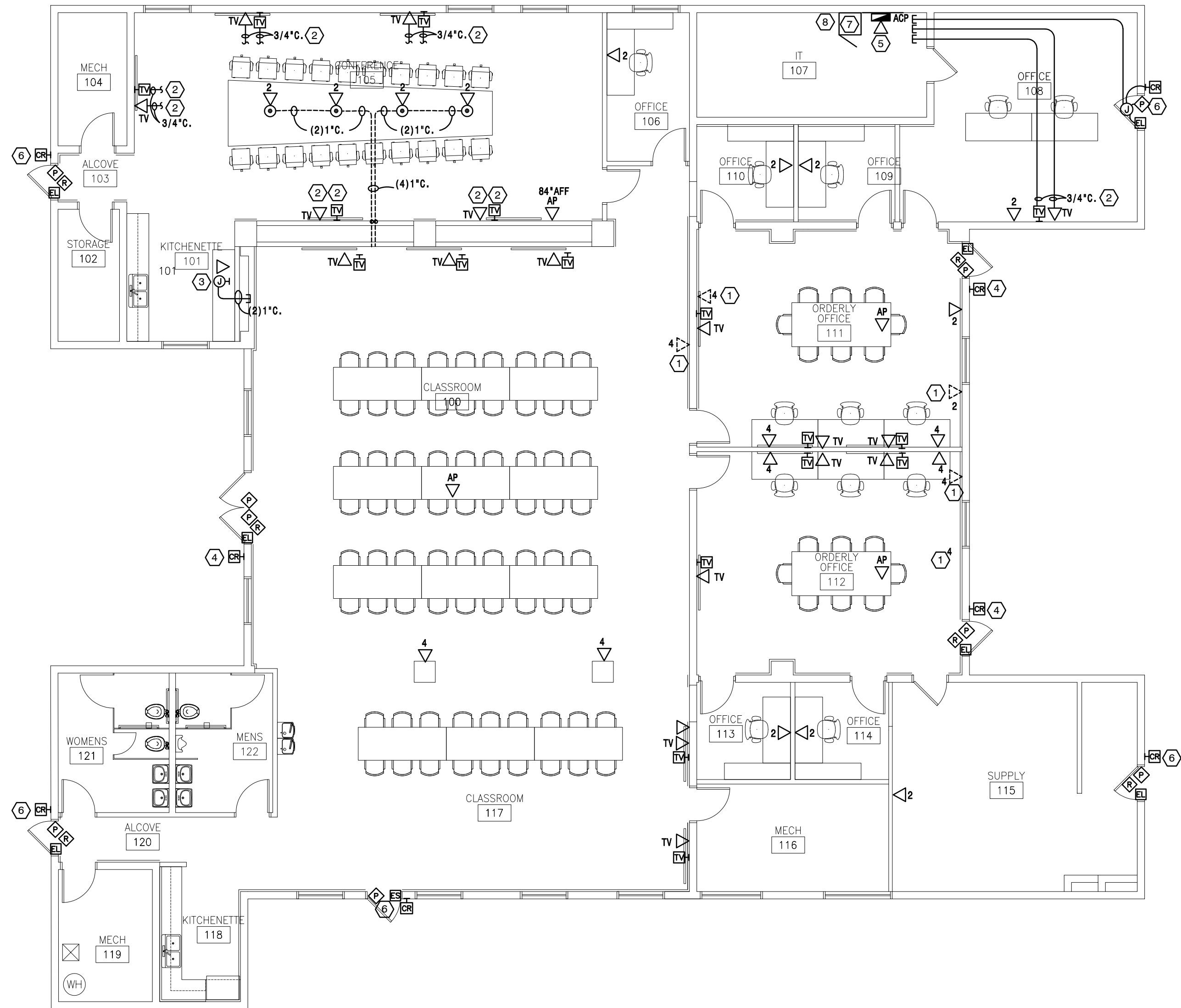
- GENERAL NOTES:**
- NUMBERS ADJACENT TO DATA OUTLETS INDICATE THE NUMBER OF JACKS, NO NUMBER INDICATES (1).
 - 'AP' INDICATES A WIRELESS ACCESS POINT OUTLET WITH (1) CATEGORY 6 NIPR JACK. ACCESS POINT EQUIPMENT FURNISHED AND INSTALLED BY THE OWNER. PROVIDE 20 FOOT SERVICE LOOP COILED IN AREAS WITH ACCESSIBLE CEILING AT ACCESS POINT LOCATIONS.
 - SEE SPECIFICATION SECTION 27 1005 FOR FURTHER INFORMATION.

3 **TYPICAL DATA PLATE DETAIL**
NOT TO SCALE



- NOTES:**
- COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF ROUGH-IN WITH ARCHITECTURAL ELEVATIONS AND OWNER FURNISHED EQUIPMENT PRIOR TO INSTALLATION.
 - STUB CONDUITS TO NEAREST ACCESSIBLE CEILING SPACE OR DIRECTLY TO IT ROOM AS NOTED. ENT CONDUIT MAY BE USED WHERE ROUTED IN THE ATTIC TO THE IT ROOM.

2 **TYPICAL MONITOR DETAIL**
NOT TO SCALE



1 **MAIN FLOOR PLAN - SYSTEMS**

BUILDING IMPROVEMENTS

Building 3480

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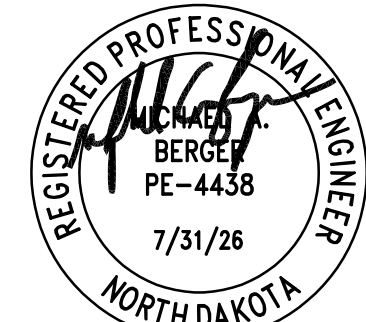
ARCHITECT
Shultz + Associates Architects
612 1/2 Main Avenue
Fargo, North Dakota
701.476.0714 p

MECHANICAL ENGINEER
MBN Engineering
701 Main Ave
Fargo, North Dakota
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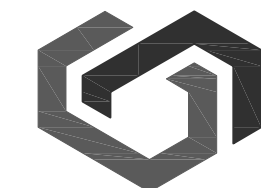
ELECTRICAL ENGINEER
MBN Engineering
701 Main Ave
Fargo, North Dakota
701.478.6336 p

PLAN NOTES:

- PROVIDE NEW PLATE AND RETERMINATE/TEST EXISTING CABLING.
- ROUTE CONDUITS TO IT 107, FLEXIBLE ENT CONDUIT MAY BE USED FOR THIS LOCATION.
- PROVIDE 4" SQUARE BOX WITH TWO GANG RING INSIDE CABINET WITH (2) 1" CONDUITS TO ACCESSIBLE CEILING FOR OWNER FURNISHED AV EQUIPMENT.
- PROVIDE CARD ACCESS SYSTEM AT THIS DOOR UNDER BASE BID, SEE DETAIL 4/E400.
- PROVIDE DATA CONNECTION TO ACCESS CONTROL PANEL.
- PROVIDE CARD ACCESS SYSTEM AT THIS DOOR UNDER ALTERNATE BID, SEE DETAIL 4/E400.
- PROVIDE NEW WALL MOUNTED DATA RACK, SEE SECTION 27 1005.
- TERMINATE CATV JACKS ON WALL ADJACENT TO ACCESS CONTROL EQUIPMENT.



MBN
ENGINEERING
MECHANICAL - ELECTRICAL - CIVIL
701 MAIN AVENUE
FARGO, ND 58103
PHONE: 701.478.6336
FAX: 701.478.6340



SHULTZ + ASSOCIATES
ARCHITECTS

Date
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Drawing Title
MAIN FLOOR PLAN - SYSTEMS

E400