

GENERAL NOTES

1. FIELD VERIFY ALL PERTINENT EXISTING CONDITIONS AND INSTALLATION REQUIREMENTS IN CONNECTION WITH REMODEL. MAKE ALLOWANCES IN BID THERETO.
2. DEVICES WITH SLASH THROUGH INDICATE SPECIFIC EXISTING DEVICES TO BE REMOVED. REMOVE OR RELOCATE ANY ELECTRICAL DEVICE AS REQUIRED BY REMODEL OPERATIONS. EXTEND EXISTING CIRCUITRY AS REQUIRED TO MAINTAIN DOWNSTREAM DEVICES OR FIXTURES. DISCONNECT AND REMOVE ANY EXISTING CIRCUITRY NOT BEING REUSED. RE-IDENTIFY EXISTING PANEL DIRECTORIES AS REQUIRED.
3. SEE SPECIFICATION 260510 FOR REMODEL.

STANDARD ELECTRICAL SYMBOLS

BASED ON ANSI Y32.9-1972, ANSI A117.1-1986, AND FEDERAL REGISTER 56-14424A
MOUNTING HEIGHT MEASUREMENTS SHALL BE MADE FROM FINISH FLOOR TO CENTER LINE OF OUTLET

SYMBOL	DESCRIPTION	MTG. HT.
LIGHTING OUTLETS		
	CEILING LUMINAIRE, TYPE A, CKT 1 SW b.	SCHEDULED
	WALL MOUNT LUMINAIRE	
	TROFFER TYPE LUMINAIRE, SLASH INDICATES UNSWITCHED.	
	STRIP TYPE LUMINAIRE	
	EXIT SIGNAGE	
	EMERGENCY BATTERY UNIT	SCHEDULED
	REMOTE SEALED BEAM	SCHEDULED
	PORCELAIN LAMPHOLDER, 100A LAMP	
	JUNCTION BOX	
RECEPTACLE OUTLETS		
	SINGLE, CKT 1	18"
	DUPLEX	18"
	DOUBLE DUPLEX	18"
	DUPLEX - SPLIT WIRED	18"
	DUPLEX - GROUND FAULT CIRCUIT INTERRUPTER	18"
	DOUBLE DUPLEX - GROUND FAULT CIRCUIT INTERRUPTER	18"
	SPECIAL CONFIGURATION DESIGNATION REFERS TO SCHEDULE	SCHEDULED
	MULTI-OUTLET ASSEMBLY, ARROWS EXTEND TO LIMIT OF INSTALLATION, SUBSCRIPT INDICATES SPACING OF OUTLETS	
	CLOCK RECEPTACLE	84"
	DUPLEX RECEPTACLE - FLOOR BOX	
SWITCH OUTLETS		
	SINGLE POLE	46"
	DOUBLE POLE	46"
	THREE-WAY	46"
	FOUR-WAY	46"
	KEY OPERATED	
	MOTOR - PROVIDE OVERLOAD UNIT AS REQ'D, TOGGLE ACCEPTABLE IF INTERNAL THERMAL PROTECTION INCLUDED, SWITCH NOT REQUIRED IF MOTOR ASSEMBLY HAS INTEGRAL DISCONNECTING MEANS.	
	PILOT HANDLE	46"
	TIME DELAY	46"
	DIMMER - 0-100% UNLESS OTHERWISE INDICATED	46"
	GANGED SWITCHES - ARROW INDICATES MULTI-LEVEL SWITCHING	46"
	CEILING MOUNTED OCCUPANCY SENSOR	
	WALL MOUNTED OCCUPANCY SENSOR - ARROW INDICATES MULTI-LEVEL SWITCHING, 4 - 0-10V DIMMING	46"
COMMUNICATION/DATA SYSTEM OUTLETS		
	TELEPHONE OUTLET	18"
	TELEPHONE OUTLET OR COMPUTER/VDT - FLOOR BOX	
	COMPUTER/VDT OUTLET	18"
	VOICE/DATA ROUGH-IN	18"
	BELL	
	BUZZER	
	INTERCOM STATION	46"
	MICROPHONE OUTLET	18"
	TELEVISION OUTLET	18"
	VOLUME CONTROL	46"
	PUSH BUTTON	
	SPEAKER/AMPLIFIER/BACKBOX COMBINATION	CEILING
	CLOCK	84"
MISCELLANEOUS		
	PLAN OR DETAIL NOTE	
	SPECIAL PURPOSE CONNECTION - AS REQUIRED BY EQUIPMENT MANUFACTURER, CO-ORDINATE ROUGH-IN WITH SHOP DWG.	
	BRANCH CIRCUIT PANELBOARD, SHADING INDICATES NEW PANEL CONTROL PANEL	TOP 75"
	EXTERNALLY OPERATED DISCONNECT SWITCH	
	CONTROLLER OR RELAY	
	COMBINATION CONTROLLER AND DISCONNECTION MEANS	
	MOTOR, DESIGNATION REFERS TO SCHEDULE.	
	EQUIPMENT DESIGNATION, SEE SCHEDULE.	
	ELECTRIC HEAT TO SCALE, ARROWS AND SUBSCRIPTS INDICATE NUMBER AND IDENTIFICATION OF CIRCUITS.	
	SCHEDULE, TT INDICATES INTERNAL THERMOSTAT.	
	THERMOSTAT-PROVIDED BY DIV. 26	46"
	THERMOSTAT-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
	HUMIDISTAT-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
	POTENTIOMETER-FURNISHED BY DIV. 23, INSTALLED BY DIV. 26	46"
	TIME SWITCH	
	PHOTOELECTRIC SWITCH	
CIRCUITING		
	HOME RUN, MIN 3/4" C, ARROWS AND SUBSCRIPTS INDICATE NUMBER AND IDENTIFICATION OF CIRCUITS.	
	TELEPHONE, MIN 3/4" C, HOME RUN TO TERMINAL BOARD	
	TELEPHONE, MIN 3/4" C, STUD INTO CEILING SPACE	
	LOW VOLTAGE, MIN 1/2" C-#14 AWG AS REQ'D.	
	SPECIAL SYSTEMS, MIN 3/4" C, PROVIDE CONDUCTORS AS REQUIRED BY MANUFACTURER, SUBSCRIPT INDICATES SYSTEM, SEE STANDARD ABBREVIATIONS.	
	0-10 VOLT CLASS 2 DIMMING CONDUCTORS	
FIRE ALARM SYSTEMS		
	DETECTOR, SUPERSCRIPIT INDICATES ZONE, SUBSCRIPT DESCRIBES INITIATION: D-DUCT, R-RATE OF RISE THERMAL, F-FIXED TEMPERATURE THERMAL, I-IONIZATION, P-PHOTO-ELECTRIC, C-COMB. CARBON MONOXIDE & PHOTOELECTRIC.	CEILING
	CHIME	84"
	MAGNETIC DOOR HOLDER	
	FAN RELAY	
	FLOW SWITCH	
	MANUAL STATION	46"
	AUDIBLE NOTIFICATION APPLIANCE	84"
	VISUAL NOTIFICATION APPLIANCE	84"
	AUDIBLE-VISUAL NOTIFICATION APPLIANCE	84"
	MAIN VALVE SUPERVISORY FIRE ALARM CONTROL PANEL	TOP 66"

STANDARD ABBREVIATIONS

AC	ABOVE COUNTER, MIN 4" ABOVE BACKSPLASH	MCB	MAIN CIRCUIT BREAKER
APF	ABOVE FINISH FLOOR	MLO	MAIN LUB ONLY
APG	ABOVE FINISH GRADE	NC	NUMERICAL CALL
AHU	AIR HANDLING UNIT	NFCS	NON-FUSIBLE DISCONNECT SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL	NR	NOT REQUIRED
BOF	BOTTOM OF FIXTURE	PA	PAGING/BACKGROUND MUSIC
CKT	CIRCUIT	PA	PUBLIC ADDRESS
CP	CONTROL PANEL	PRV	POWER ROOF VENTILATOR
CU	CONDENSING UNIT	RF	RELIEF FAN
CUH	CABINET UNIT HEATER	R8C	RIGID GALVANIZED STEEL CONDUIT
DT	DUST TIGHT	RT	RAIN-TIGHT
DTR	DATA TERMINATION RACK	RTU	ROOFTOP UNIT
EC	ELECTRICAL CONTRACTOR	S	SECURITY
EF	EXHAUST FAN	SD	SEE DETAIL
EM	EMERGENCY	SS	SURGE SUPPRESSION
EP	EXPLOSION PROOF	SW	SWITCH
EW	ELECTRIC WATER COOLER	TOP	TOP OF PANEL
EWL	ELECTRIC WATER HEATER	T	TELEPHONE
FA	FIRE ALARM	TSSW	TWO SPEED SEPARATE WINDING
FACP	FIRE ALARM CONTROL PANEL	TTB	TELEPHONE TERMINAL BOARD
PARA	FIRE ALARM REMOTE ANNUNCIATOR	VT	VAPOR TIGHT
FOS	FUSIBLE DISCONNECT SWITCH	W	WALL MTG. (46" APF) FORWARD REACH
FVNR	FULL VOLTAGE NON REVERSING	WP	WEATHERPROOF (84" APF) SIDE REACH
FVR	FULL VOLTAGE REVERSING	WT	WATER TIGHT
IC	INTERCOM	WM	WIREMOLD
IG	ISOLATED GROUND		
IL	INTERLOCK		
LV	LOW VOLTAGE		
MC	MECHANICAL CONTRACTOR		
MCA	MINIMUM CIRCUIT AMPACITY		

SPECIAL ABBREVIATIONS PECULIAR TO THIS PROJECT

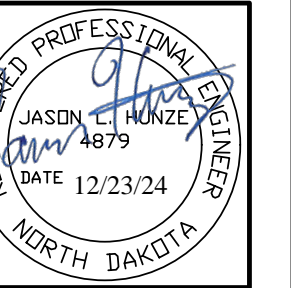
- ATS AUTOMATIC TRANSFER SWITCH
- MTS MANUAL TRANSFER SWITCH

RAMSEY COUNTY COURTHOUSE ELECTRICAL SYSTEM UPGRADE DEVILS LAKE, NORTH DAKOTA

DRAWING INDEX

- E0.1 TITLE SHEET
- E1.1 BASEMENT LEVEL PLANS
- E1.2 1ST & 2ND FLOOR PLANS
- E1.3 3RD FLOOR & PENTHOUSE PLANS
- E2.1 EXISTING RISER
- E2.2 UPGRADED RISER

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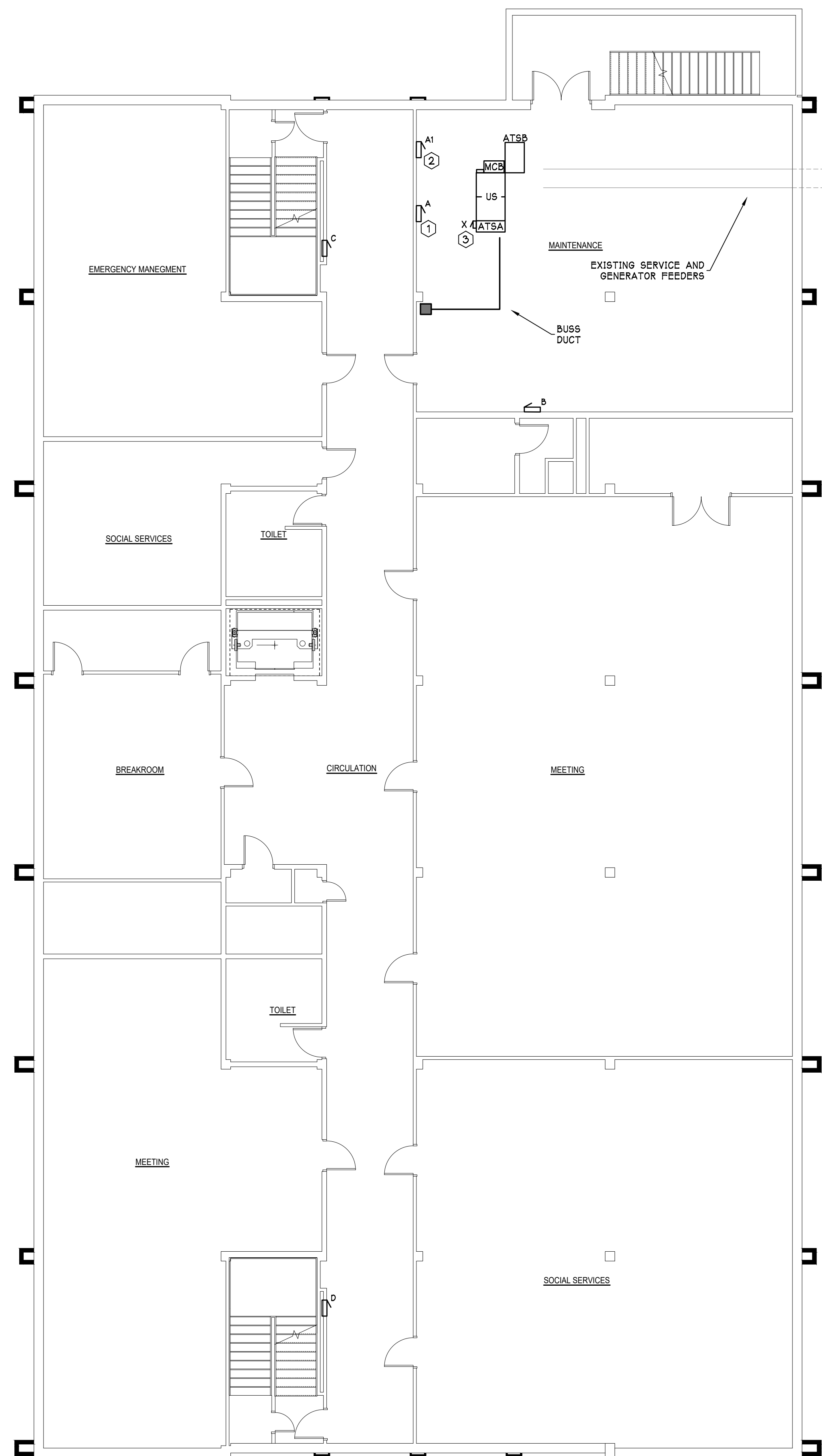
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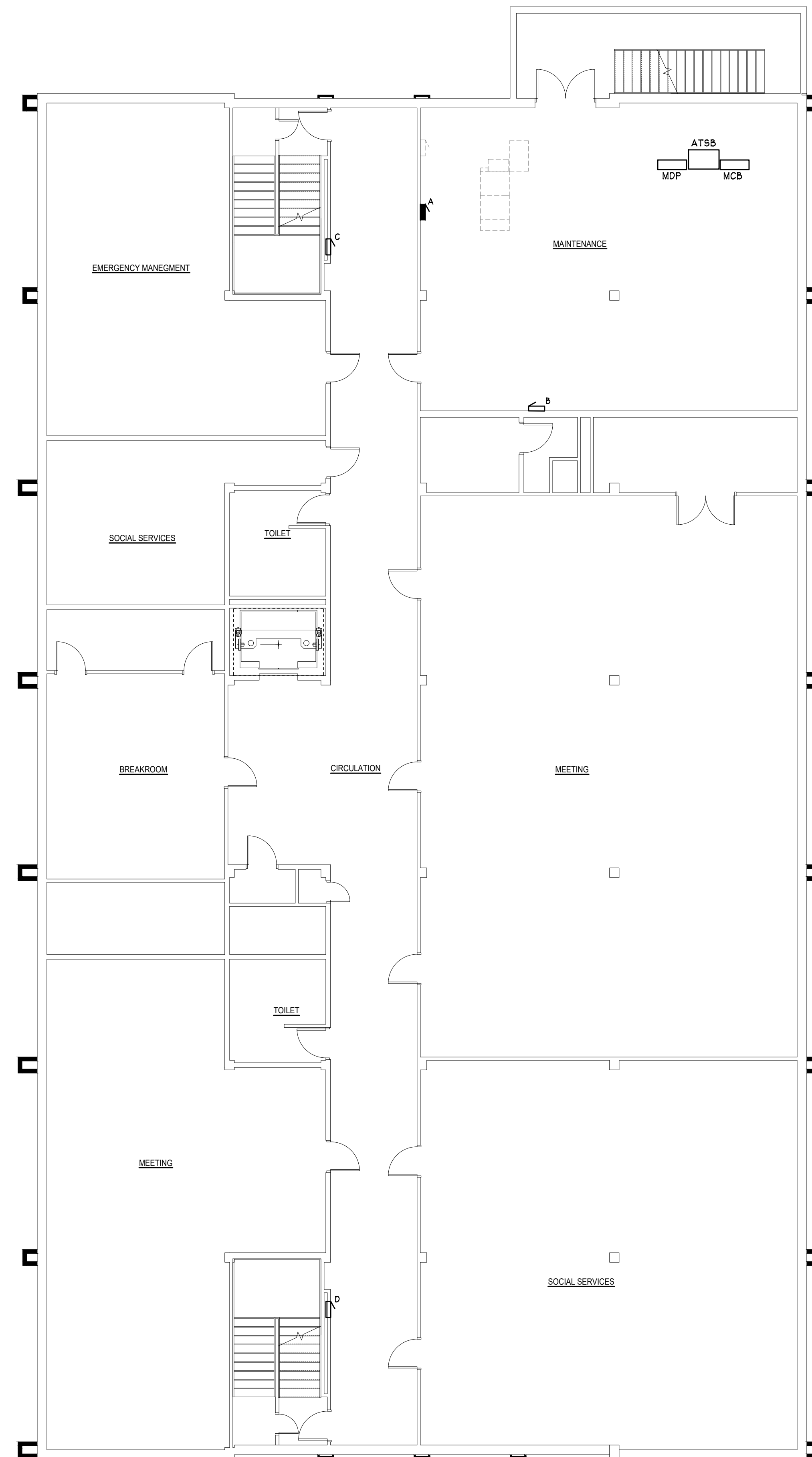
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BASEMENT LEVEL PLANS

SHEET
E0.1
of 6



1
E1.1
1/8" = 1' - 0"
EXISTING BASEMENT LEVEL

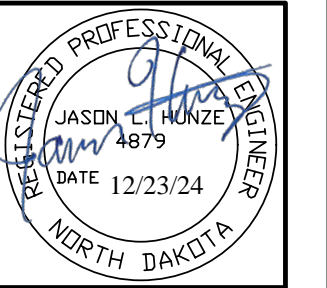


2
E1.1
1/8" = 1' - 0"
UPGRADED BASEMENT LEVEL

KEYNOTES

- ① REPLACE EXISTING 20 SPACE PANEL A WITH NEW 42 SPACE PANEL A. RECONNECT EXISTING BRANCH CIRCUITS. REFER TO PANEL A SCHEDULE ON THE DRAWINGS.
- ② REMOVE PANEL A1 ALONG WITH ASSOCIATED FEEDER AND MTS. SPLICE/EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL A. REFER TO PANEL A SCHEDULE ON THE DRAWINGS FOR PANEL A1 BRANCH CIRCUIT INFO.
- ③ REMOVE PANEL X. SPLICE/EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL A. REFER TO PANEL A SCHEDULE ON THE DRAWINGS FOR PANEL X BRANCH CIRCUIT INFO.

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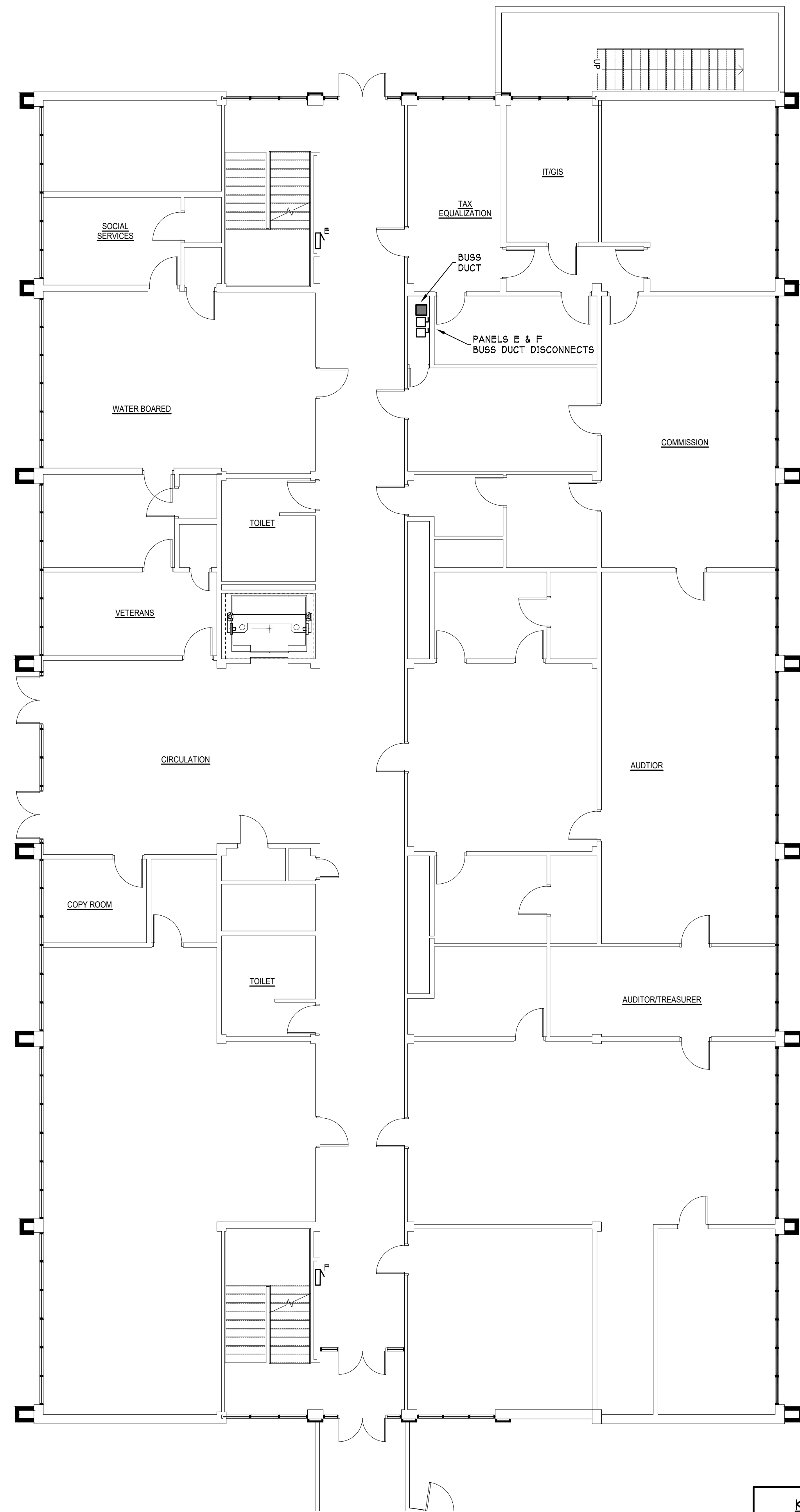
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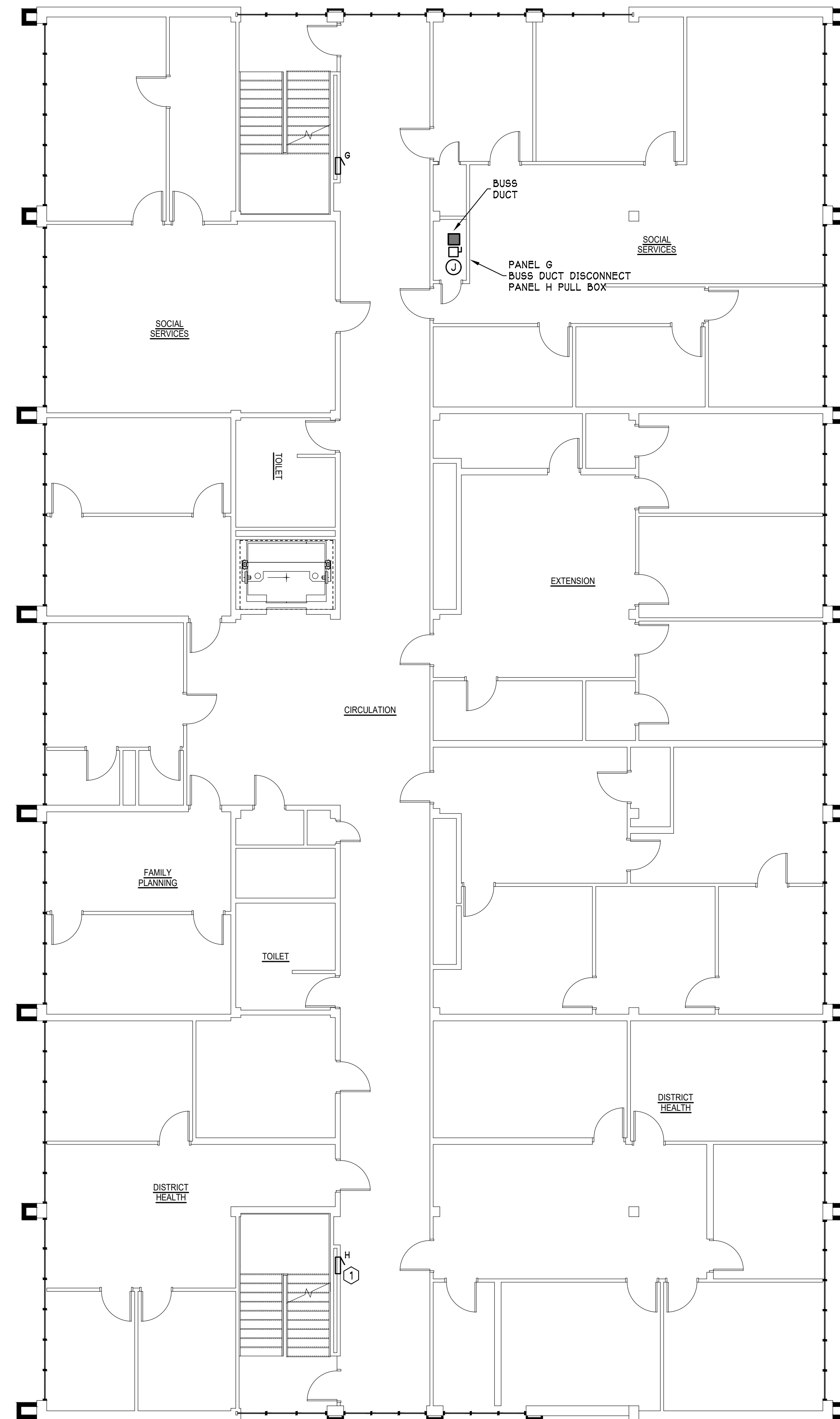
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BASEMENT LEVEL PLANS

SHEET
E1.1
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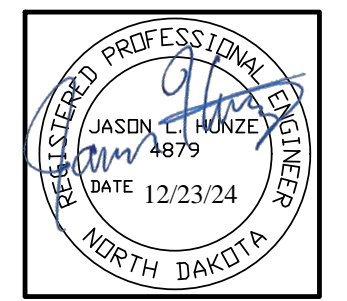
1 1ST FLOOR PLAN
1/8" = 1' - 0"



2 2ND FLOOR PLAN
1/8" = 1' - 0"

KEYNOTES
 ① REPLACE EXISTING BUSSING/CIRCUIT BREAKERS WITH RETROFIT UTILIZING EXISTING BACKBOX. RECONNECT EXISTING BRANCH CIRCUITS. REFER TO PANEL H SCHEDULE ON THE DRAWINGS.

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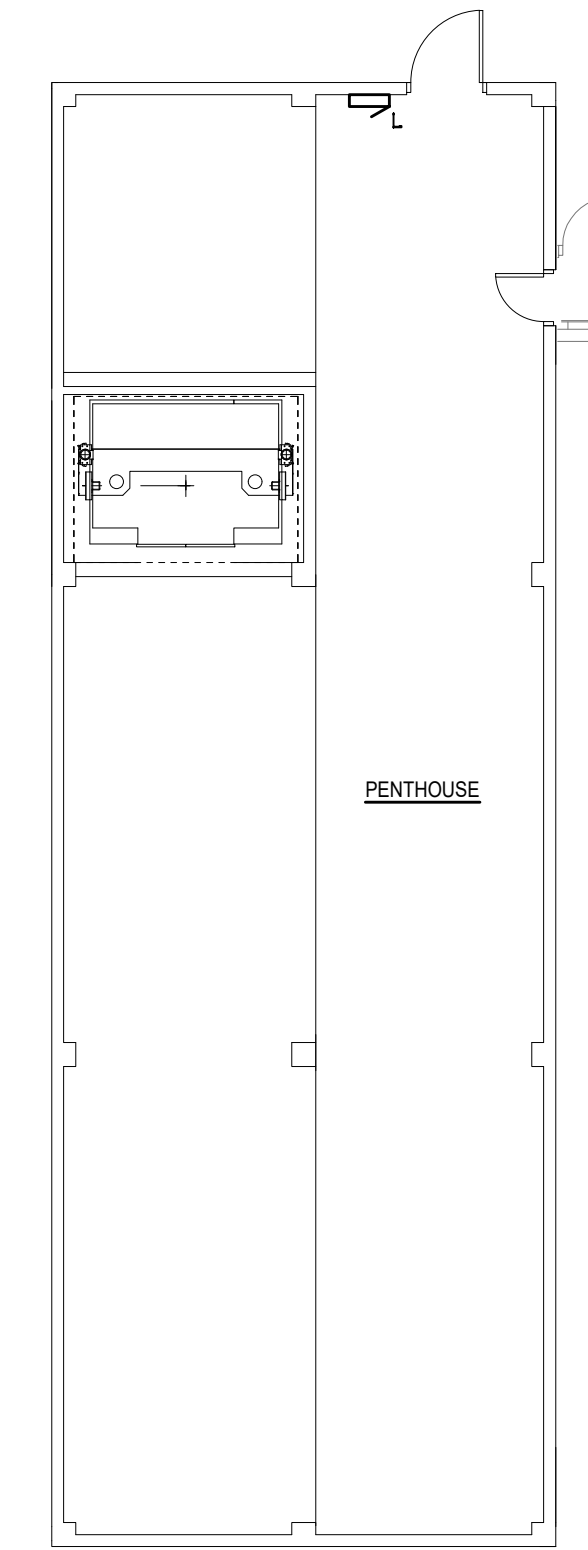
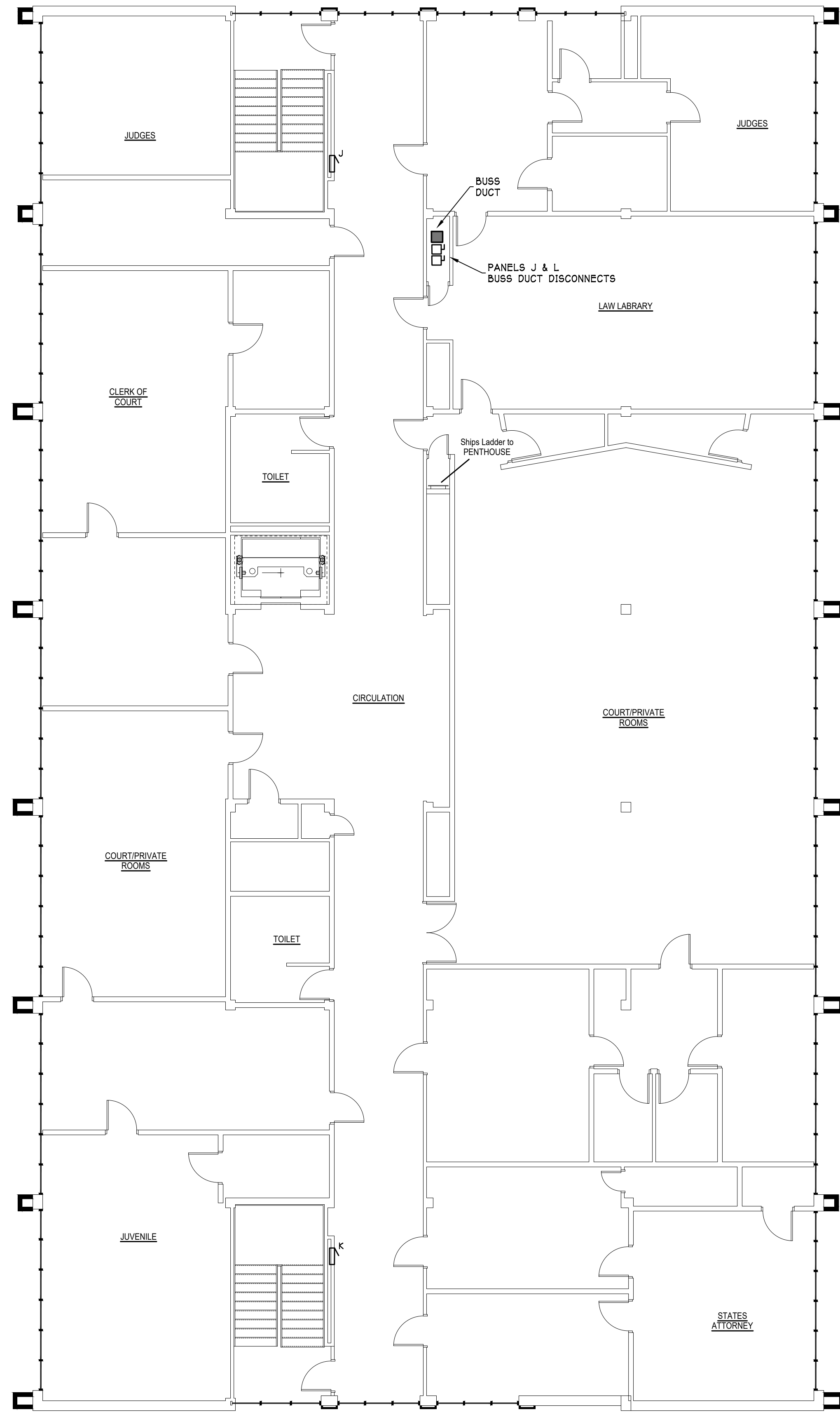
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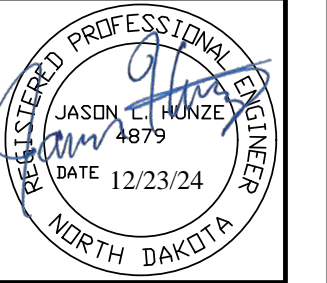
1ST & 2ND FLOOR PLANS

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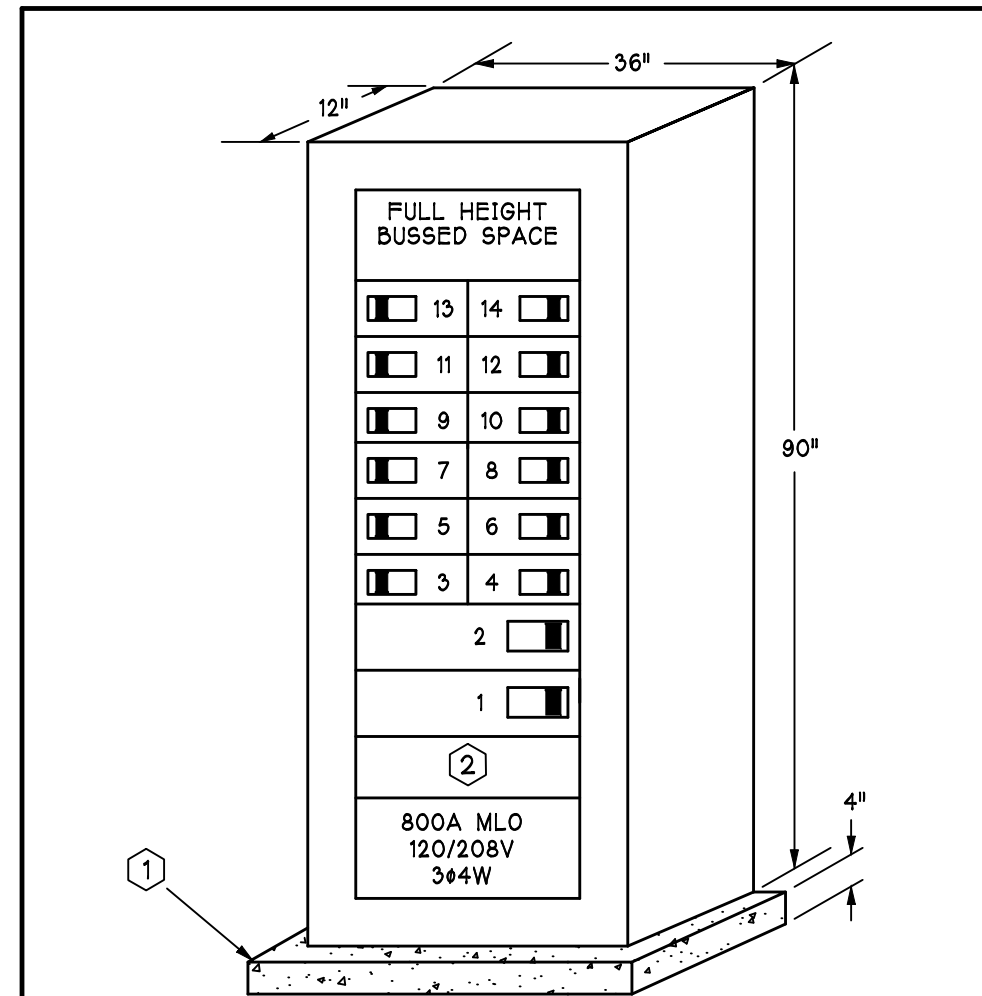
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3RD FLOOR
AND PENTHOUSE PLANS

SHEET
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of 6



MDP ELEVATION
NO SCALE

NOTES:

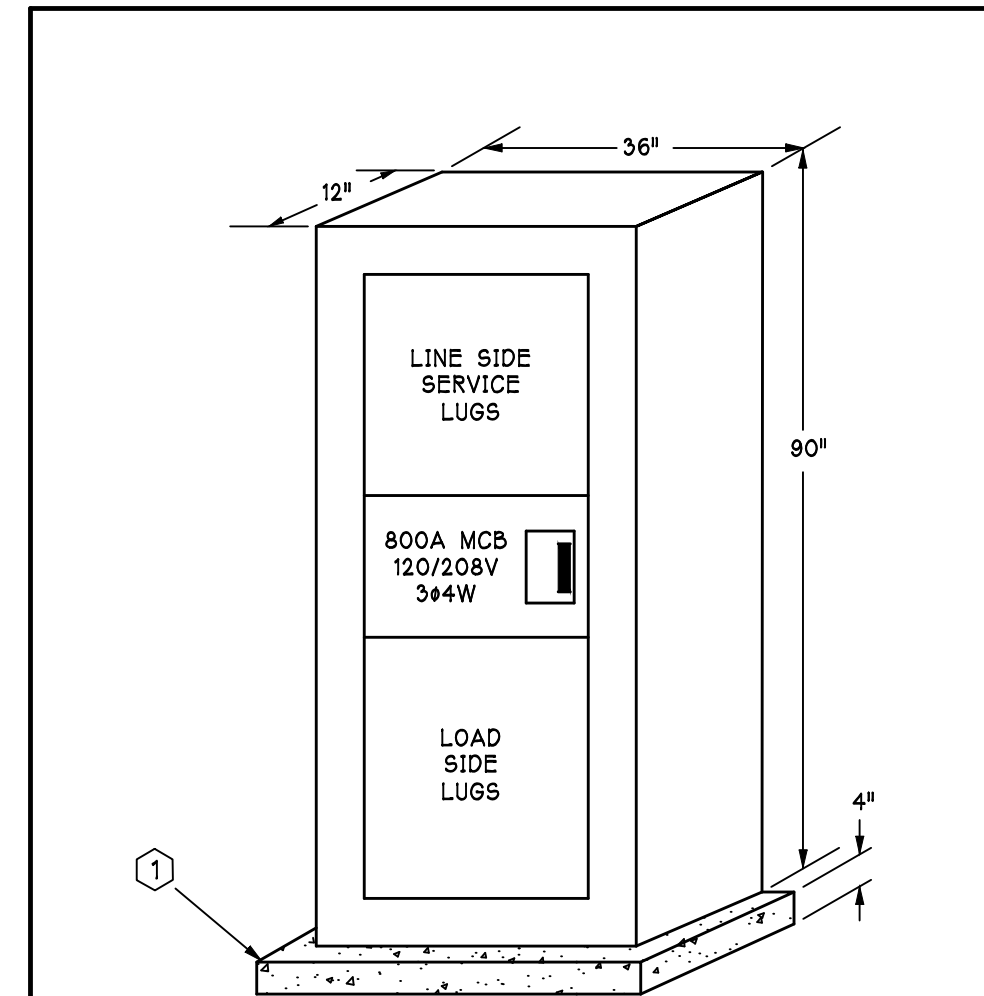
- ① CONCRETE PAD AS PER SPECIFICATION 262416.
- ② INTEGRAL 160ka SPD.

MDP SCHEDULE
EATON POW-R-LINE 4

DESIG.	LOAD SERVED	TYPE	SIZE
1	CHILLER	CB	600/3
2	PANEL L	CB	400/3
3	PANEL A	CB	200/3
4	PANEL B	CB	200/3
5	PANEL F	CB	200/3
6	PANEL H	CB	200/3
7	SPARE	CB	200/3
8	SPARE	CB	200/3
9	PANEL C	CB	100/3
10	PANEL D	CB	125/3
11	PANEL E	CB	100/3
12	PANEL G	CB	100/3
13	PANEL J	CB	100/3
14	SPARE	CB	100/3

PANEL A SCHEDULE
120/208 VOLTS 3 PH 4 W 225 A MLO SURFACE MOUNTED
EATON POW-R-LINE SERIES

DESCRIPTION	CKT BKR	GF CI	QTY #	PH	CKT BKR	GF CI	QTY #	PH	DESCRIPTION
EXISTING	20/1	1	A	2	20/1				EXISTING
EXISTING	20/1	3	B	4	20/1				EXISTING
EXISTING	20/1	5	C	6	20/1				EXISTING
EXISTING	20/1	7	A	8	20/1				EXISTING
EXISTING	20/1	9	B	10	20/1				EXISTING
EXISTING	20/1	11	C	12	20/1				EXISTING
EXISTING	20/1	13	A	14	20/1				EXISTING
EXISTING	19/3	15	B	16	20/1				EXISTING
EXISTING	-	17	C	18	30/2				EXISTING
EXISTING	-	19	A	20	-				EXISTING
EXISTING PNL X	20/2	21	B	22	15/1				EXISTING PNL A1
EXISTING PNL X	-	23	C	24	25/1				EXISTING PNL A1
EXISTING PNL X	20/1	25	A	26	20/1				EXISTING PNL A1
EXISTING PNL X	20/1	27	B	28	20/1				EXISTING PNL A1
PUMP 1	20/3	29	C	30	20/1				EXISTING PNL A1
PUMP 1	-	31	A	32	20/1				SPARE
PUMP 1	-	33	B	34	20/1				SPARE
SPARE	20/1	35	C	36	20/1				SPARE
SPARE	20/1	37	A	38	20/1				SPARE
SPARE	20/1	39	B	40	20/1				SPARE
SPARE	20/1	41	C	42	20/1				SPARE



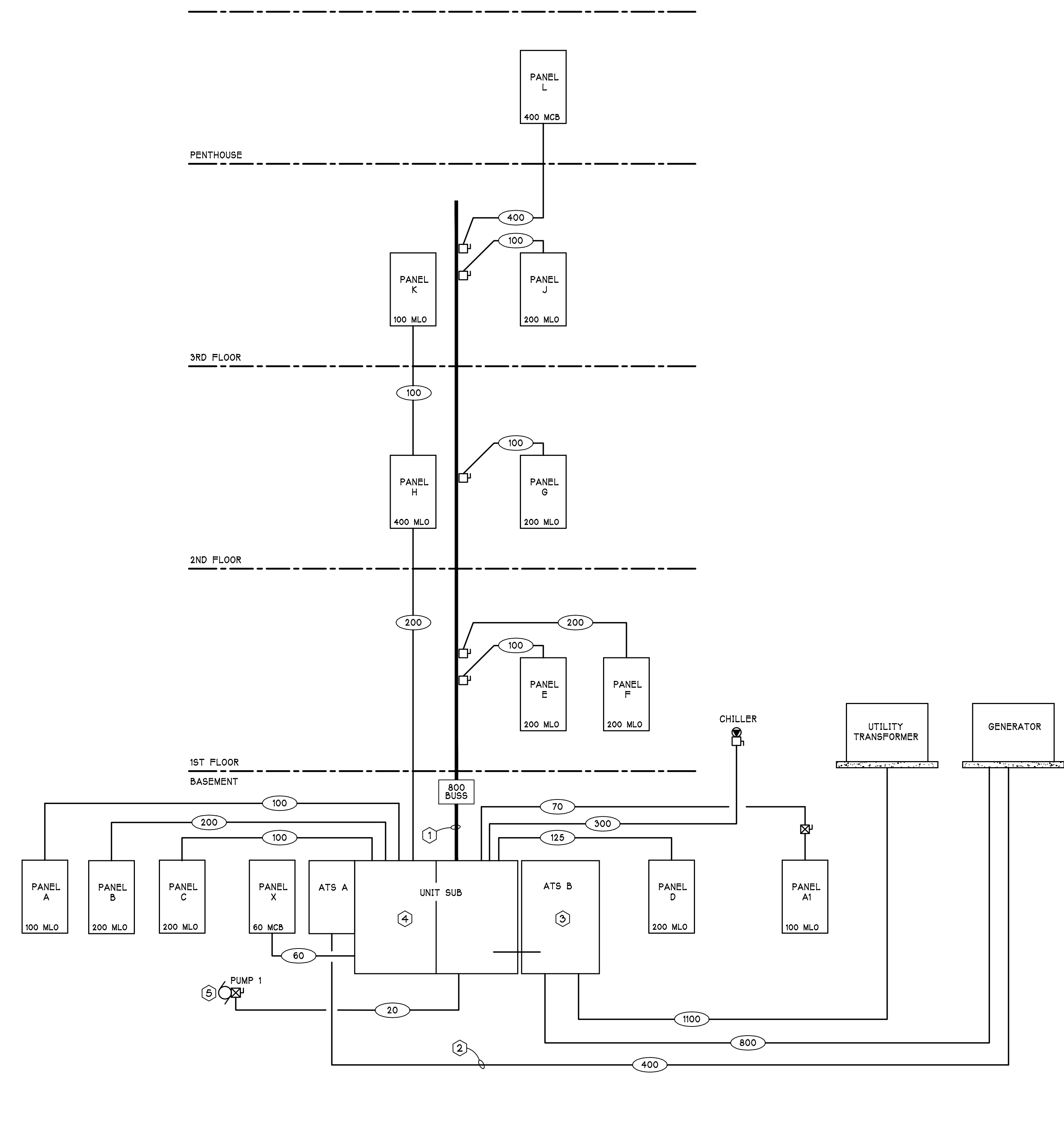
MCB ELEVATION
NO SCALE

NOTES:

- ① CONCRETE PAD AS PER SPECIFICATION 262416.

PANEL H SCHEDULE
120/208 VOLTS 3 PH 4 W 225 A MLO SURFACE MOUNTED
AMERICAN MIDWEST POWER RETROFIT
INTO EXISTING RECESSED BACKBOX

DESCRIPTION	CKT BKR	GF CI	QTY #	PH	CKT BKR	GF CI	QTY #	PH	DESCRIPTION
SPARE	20/1	1	A	2	100/3				PANEL K
SPARE	20/1	3	B	4	-				PANEL K
EXISTING	20/1	5	C	6	-				PANEL K
EXISTING	20/1	7	A	8	20/1				EXISTING
EXISTING	20/1	9	B	10	20/1				EXISTING
EXISTING	20/1	11	C	12	20/1				EXISTING
EXISTING	20/1	13	A	14	20/1				EXISTING
EXISTING	20/1	15	B	16	20/1				EXISTING
EXISTING	20/1	17	C	18	20/1				EXISTING
EXISTING	20/1	19	A	20	20/1				EXISTING
EXISTING	20/1	21	B	22	20/1				EXISTING
EXISTING	20/1	23	C	24	20/1				EXISTING
EXISTING	20/1	25	A	26	20/1				EXISTING
EXISTING	20/1	27	B	28	20/1				EXISTING
EXISTING	20/1	29	C	30	20/1				EXISTING
EXISTING	20/1	31	A	32	20/1				EXISTING
EXISTING	20/1	33	B	34	20/1				EXISTING
EXISTING	20/1	35	C	36	20/1				EXISTING
EXISTING	20/1	37	A	38	20/1				EXISTING
EXISTING	20/1	39	B	40	20/1				EXISTING
EXISTING	20/1	41	C	42	20/1				EXISTING



EXISTING RISER
NO SCALE

NOTES:

- ① COMPLETELY REMOVE BUSS DUCT SYSTEM AFTER THE PANELS HAVE BEEN RE-FED FROM THE NEW MDP.
- ② REMOVE ATS-A GENERATOR FEEDER TO GREATEST EXTENT POSSIBLE. ELIMINATE ANY ASSOCIATED GENERATOR CONTROL WIRING.
- ③ RELOCATE ATS-B. SEE DETAIL 1/E2.2. EXTEND ALL GENERATOR CONTROL CIRCUITRY AS REQUIRED.
- ④ COMPLETELY REMOVE UNIT SUB, MCB, ATS-A, AND OTHER ASSOCIATED EQUIPMENT AFTER THE DISTRIBUTION SYSTEM HAS BEEN RE-FED FROM THE NEW MDP.
- ⑤ RE-FED PUMP 1 FROM NEW PANEL A.

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**RAMSEY COUNTY COURTHOUSE
ELECTRICAL SYSTEM UPGRADE
DEVILS LAKE, NORTH DAKOTA**

EXISTING RISER

- SUGGESTED CONSTRUCTION SEQUENCE**
- SET THE NEW MCB AND MDP IN PLACE ON NEW HOUSEKEEPING PAD.
 - SCHEDULED OUTAGE #1:
 - DE-ENERGIZE ELECTRIC SERVICE. DISCONNECT SERVICE FEEDER FROM UNIT SUB AND RE-TERMINATE IN MCB.
 - RELOCATE ATS-B.
 - INSTALL NEW FEEDERS BETWEEN ATS-B, MCB, AND MDP.
 - RE-TERMINATE GENERATOR FEEDER TO ATS-B.
 - PROVIDE TEMPORARY WIRING FROM MDP TO UNIT SUB.
 - RE-ENERGIZE ELECTRIC SERVICE.
 NOTE: IT MAY BE POSSIBLE TO UTILIZE ATS-A TO KEEP PART OF THE BUILDING OPERATIONAL DURING THIS OUTAGE.
 - ONCE THE NEW MDP IS ON-LINE, COORDINATE LOCALIZED OUTAGES WITH THE OWNER FOR EXTENDING EACH INDIVIDUAL DISTRIBUTION FEEDER FROM THE UNIT SUB AND BUSS DUCT TO THE MDP, ONE-BY-ONE.
 - AFTER ALL DISTRIBUTION SYSTEM EQUIPMENT HAS BEEN TRANSFERRED OVER TO THE NEW MDP, SCHEDULE A SHORT OUTAGE TO REMOVE THE TEMPORARY FEEDER.
 - REMOVE THE OLD EQUIPMENT NO LONGER IN USE.

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 CHECKED BY
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PROFESSIONAL ENGINEER
 JASON HANZE
 No. 4879
 DATE 12/23/24
 NORTH DAKOTA

FEEDER SCHEDULE

DESIGNATION	CONFIGURATION	REQUIRED AMPACITY	CONDUCTOR SIZE (NOTE 3)			CONDUIT
			PHASE	NEUTRAL	EGC	
800N	3# 4W	800	(2) 500 KCMIL	(2) 500 KCMIL	(2) #3	(2) 3-1/2"
400N	3# 4W	400	500 KCMIL	500 KCMIL	#3	3-1/2"
200N	3# 4W	200	3/0	3/0	#6	2"
125N	3# 4W	125	1/0	1/0	#6	1-1/2"
100N	3# 4W	100	#2	#2	#8	1-1/4"
20	3# 3W	20	#12	NR	#12	3/4"

NOMENCLATURE:

400 N S - 1

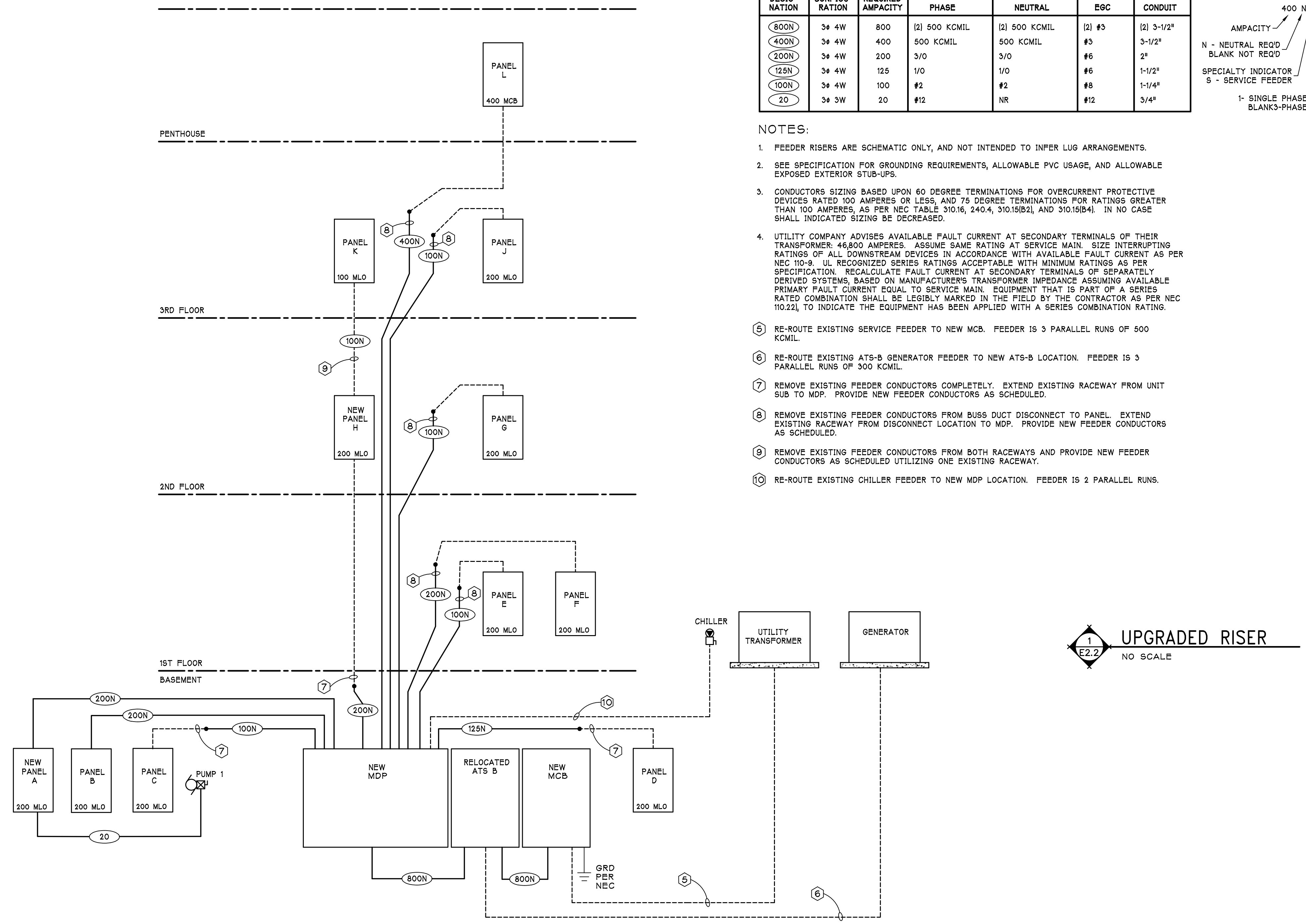
AMPACITY

N - NEUTRAL REQ'D
 BLANK NOT REQ'D

SPECIALTY INDICATOR
 S - SERVICE FEEDER

1- SINGLE PHASE
 BLANK3-PHASE

- NOTES:**
- FEEDER RISERS ARE SCHEMATIC ONLY, AND NOT INTENDED TO INFER LUG ARRANGEMENTS.
 - SEE SPECIFICATION FOR GROUNDING REQUIREMENTS, ALLOWABLE PVC USAGE, AND ALLOWABLE EXPOSED EXTERIOR STUB-UPS.
 - CONDUCTORS SIZING BASED UPON 60 DEGREE TERMINATIONS FOR OVERCURRENT PROTECTIVE DEVICES RATED 100 AMPERES OR LESS, AND 75 DEGREE TERMINATIONS FOR RATINGS GREATER THAN 100 AMPERES, AS PER NEC TABLE 310.16, 240.4, 310.15(B2), AND 310.15(B4). IN NO CASE SHALL INDICATED SIZING BE DECREASED.
 - UTILITY COMPANY ADVISES AVAILABLE FAULT CURRENT AT SECONDARY TERMINALS OF THEIR TRANSFORMER: 46,800 AMPERES. ASSUME SAME RATING AT SERVICE MAIN. SIZE INTERRUPTING RATINGS OF ALL DOWNSTREAM DEVICES IN ACCORDANCE WITH AVAILABLE FAULT CURRENT AS PER NEC 110-9. UL RECOGNIZED SERIES RATINGS ACCEPTABLE WITH MINIMUM RATINGS AS PER SPECIFICATION. RECALCULATE FAULT CURRENT AT SECONDARY TERMINALS OF SEPARATELY DERIVED SYSTEMS, BASED ON MANUFACTURERS TRANSFORMER IMPEDANCE ASSUMING AVAILABLE PRIMARY FAULT CURRENT EQUAL TO SERVICE MAIN. EQUIPMENT THAT IS PART OF A SERIES RATED COMBINATION SHALL BE LEGIBLY MARKED IN THE FIELD BY THE CONTRACTOR AS PER NEC 110.22, TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING.
- 5 RE-ROUTE EXISTING SERVICE FEEDER TO NEW MCB. FEEDER IS 3 PARALLEL RUNS OF 500 KCMIL.
- 6 RE-ROUTE EXISTING ATS-B GENERATOR FEEDER TO NEW ATS-B LOCATION. FEEDER IS 3 PARALLEL RUNS OF 300 KCMIL.
- 7 REMOVE EXISTING FEEDER CONDUCTORS COMPLETELY. EXTEND EXISTING RACEWAY FROM UNIT SUB TO MDP. PROVIDE NEW FEEDER CONDUCTORS AS SCHEDULED.
- 8 REMOVE EXISTING FEEDER CONDUCTORS FROM BUSS DUCT DISCONNECT TO PANEL. EXTEND EXISTING RACEWAY FROM DISCONNECT LOCATION TO MDP. PROVIDE NEW FEEDER CONDUCTORS AS SCHEDULED.
- 9 REMOVE EXISTING FEEDER CONDUCTORS FROM BOTH RACEWAYS AND PROVIDE NEW FEEDER CONDUCTORS AS SCHEDULED UTILIZING ONE EXISTING RACEWAY.
- 10 RE-ROUTE EXISTING CHILLER FEEDER TO NEW MDP LOCATION. FEEDER IS 2 PARALLEL RUNS.



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UPGRADED RISER