

Addendum No. 1
May 30, 2023

Project: Dell Rapids City and Community Hall
317 E 4th ST Dell Rapids, South Dakota
Architecture Incorporated Project #2999

Architect: Architecture Incorporated

Letting: June 15, 2023
2:00 PM
Dell Rapids City Hall
302 East 4th Street
Dell Rapids, South Dakota

Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated, this Addendum forms a part of the Contract Documents. Acknowledge receipt of this addendum by listing its number and date in the bidder's Form of Proposal. Failure to do so may subject bidder to disqualification. This addendum modifies the drawings and specifications as follows:

GENERAL ITEMS:

1) SECTION 042000 – UNIT MASONRY ASSEMBLIES –

- a) 2.6. – MORTAR AND GROUT MATERIALS – D.3.A. ADD.5 – Grout color to match existing grout mix, provide samples in mockup panel for comparison

2) SECTION 122413 ROLLER WINDOW SHADES –

- a) 2.2. MANUAL OPERATED SHADES WITH SINGLE ROLLERS SECTION - E. 2. Omit Headbox, not required.
- b) 2.3 SHADEBAND MATERIAL B.6. FABRIC: Hunter Douglas Glacier Screen 3%

3) DRAWING 4.00 – DEMOLITION PLAN – LOWER LEVEL

- a) General Notes – Demolition. Omit Note C.
 - i) General Contractor to salvage a portion of existing brick to be removed to infill as needed at damaged brick caused by cut openings only. All brick on Sheriff's expansion will be new. See Section 420000
- b) STAIR 6 – Remove only portion of gypsum ceiling at lower level landing required to allow for new lighting layout. See Electrical for requirements.

4) DRAWING 4.01 – DEMOLITION PLAN – LOWER LEVEL

- a) General Notes – Demolition. Omit Note C.

- i) General Contractor to salvage a portion of existing brick to be removed to infill as needed at damaged brick caused by cut openings only. All brick on Sheriff's expansion will be new. See Section 420000

5) DRAWING 4.11 – FLOOR PLAN – FIRST FLOOR

- a) First Floor Plan – Room 118A – EQUIP is allocated for elevator equipment and utilities for the elevator.

MECHANICAL ITEMS:

SPECIFICATION ITEMS:

SPECIFICATION SECTION 230900

Modify Hot Water Cabinet Unit Heater and Unit Heaters SOO as follows:

The BAS shall maintain the desired space temperature through a DDC controller by cycling the unit fan and two position, two way control valve upon a call for heat in the space. The BAS shall prevent the fan from operating unless 120 degree F. (adj.) hot water is available. The DDC controllers shall be networked into the BAS to allow for remote adjustments, remote monitoring, and remote temperature indication at the operator's workstation, the DDC controllers shall be Application Specific Controllers (ASC).

Modify the Hot Water Heating Pump SOO as follows:

The lead hot water heating pump shall be started by the BAS during heating operation below 60 degrees F (ADJ.) outside air temperature. The BAS shall the system differential pressure according with a differential pressure sensor located as directed by the Engineer. The second pump shall operate when DP drops below desired set point.

Each of the two hot water heating pumps shall have a current switch or differential pressure switch to prove pump operation. If flow is not proven after the BAS has commanded the lead pump to start, an alarm shall be initiated at the operator's workstation and the lag pump shall be started and its variable frequency drive shall be modulated by the BAS to maintain the desired system differential pressure. The BAS Contractor shall provide the necessary programming to lead/lag and alternate the pumps.

SPECIFICATION SECTION 220100 – GENERAL PROVISIONS

SUBSECTION 1.27 – PIPE AND PIPE FITTINGS:

Add Grease Waste piping specification as follows:

Grease Waste (GW) piping in buildings underground shall be PVC plastic or CPVC as follows:

Piping between fixtures and the grease interceptor shall be PVC Schedule 40 plastic piping and fittings. PVC piping and fittings shall meet ASTM D2665-68 and Federal Specification L-P-320.

Where piping is exposed to high water temperatures, such as piping serving trench drains for tilting skillets, piping shall be CPVC Schedule 40 plastic piping and fittings. See drawings for specific requirements. Grease Waste piping outside the building shall be insulated with 1/2" closed cell elastomeric pipe insulation.

SPECIFICATION SECTION 220400 – PLUMBING

Add the following:

GREASE INTERCEPTOR:

Furnish and provide a grease interceptor where shown on the plans. Grease interceptor shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 5/16" uniform wall thickness. Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (type C) and CSA B481.1, with field cut riser system, built-in flow control and three outlet options. Interceptor flow rate shall be 20 or 25 GPM. Interceptor grease capacity shall be 70 lbs. @ 20 GPM or 64.9 lbs. @ 25 GPM. Cover shall provide water/gastight seal and have minimum 450 lbs. load capacity.

Grease interceptor shall be Schier GB-1 or approved equal.

DRAWING ITEMS:

DRAWING SHEET 8.30 – UNDERFLOOR PLAN – PLUMBING

See Revised Drawing Sheet 8.30, items labelled "1 – ADDENDUM 1", dated 5-26-23.

UNDERFLOOR PLAN – PLUMBING:

- 1) Revise 4" W to FSK underneath water meter location to match new water service entrance location. Revise 2" V piping as shown.
- 2) Extend 4" W main piping in mechanical room to the South wall of the room. Locate cleanout at South wall.

DRAWING SHEET 8.31 – BASEMENT FLOOR PLAN – PLUMBING & HEATING

See Revised Drawing Sheet 8.31, items labelled "1 – ADDENDUM 1", dated 5-26-23.

PLUMBING & HEATING NOTES: See added notes.

BASEMENT FLOOR PLAN – PLUMBING & HEATING

- 1) Revise water service location from 2" to 6" and shall be routed from the South entering the mechanical room in the SW corner of the room.
- 2) Provide tee for 4" fire suppression service and route 4" water to fire suppression riser location now shown on the drawings. See specifications for performance specifications on the fire suppression system.
- 3) Relocate the Heating Water System Expansion Tank to previous water service location.
- 4) Revise CW piping mains within room as shown.
- 5) Relocate P-1 and P-2 to be mounted outside of landing (above room) footprint and hang pumps at 7'-0" AFF.
- 6) 1" HWS/HWR piping crossing STAIR 009 shall drop down in wall, be routed tight to the underside of the stair landing, then rise back up in wall to above ceiling in HALL 007.
- 7) Add keynote to Grease Interceptor. See revised keynote list.
- 8) Relocate FSK underneath the water meter to match new meter location within room. Revise V piping within mechanical room to reflect new FSK location.
- 9) Revise 4" DS piping routing with mechanical room. Route to the North out of the room to combine with other DS piping outside of room. Maintain necessary clearances from electrical equipment located on the East wall of the room.

DRAWING SHEET 8.50 – SCHEDULES

See Revised Drawing Sheet 8.50, items labelled “1 – ADDENDUM 1”, dated 5-26-23.

PUMP SCHEDULE: Revise P-1 and P-2 to be B&G PL-55 inline pumps. See updated schedule.

ELECTRICAL ITEMS:

DRAWING ITEMS:

DRAWING SHEET 9.21 –MAIN FLOOR PLAN – DEMO - ELECTRICAL

1. Add keynote 2 which is to read “ATM TO REMAIN OPERATIONAL DURING CONSTRUCTION. ELECTRICAL CIRCUITS AND COMMUNICATIONS TO REMAIN IN PLACE UNTIL NEW ELECTRICAL SERVICE IS INSTALLED FOR ATM. ALL OUTAGES TO BE COORDINATED WITH OWNER.”

DRAWING SHEET 9.32 –BASEMENT FLOOR PLAN – POWER & SIGNAL

1. Add electrical receptacles and data drops at each projector screen location as shown on revised drawings.

DRAWING SHEET 9.33 –MAIN FLOOR PLAN – LIGHTING

1. See revised lighting layout & switching changes in Flex Space Room 125, Stair 120, Entry 119.
2. Time Clock has been removed from Break Room 121.
3. The location of the photocell on the wall north of the Sheriff Room 122 has been shown.
4. The outdoor receptacles mounted at 96” for accent lighting shall be Weatherproof and GFI protected.

DRAWING SHEET 9.34 –MAIN FLOOR PLAN – POWER & SIGNAL

1. In reference to the AV locations shown in the Chambers room 103, omit Keynote 7 from each AV location. Add Keynote 11 at every AV location. Keynote 11 to read “PROVIDE 1.25" CONDUIT RACEWAY FROM AV JUNCTION BOX IN CHAMBERS ROOM TO ACCESSIBLE LOCATION IN ROOM 103A. PROVIDE HDMI CABLING AND OUTLET PLATES AT EACH LOCATION”.
2. Add Receptacles, AV & TV outlets to Sheriff Room 122.
3. Add New Circuit and Data Drop for ATM.

DRAWING SHEET 9.35 – KITCHEN/BAR PLAN – ELECTRICAL

1. Kitchen Equipment Schedule to be updated as shown on the revised drawing.

DRAWING SHEET 9.50 – ELECTRICAL SYMBOLS AND ABBREVIATIONS.

1. See updated Panelboard Schedules for Panelboards A, B and ATM.
2. Service #2 Panel (ATM) to be 100A, not 60A. See Revised Riser Diagram.
3. Supplemental factory drawings for Service #2 Equipment are attached below.

DRAWING SHEET 9.51 – ELECTRICAL SCHEDULES

In reference to the lighting fixture schedule, change the following:

1. Type Q Fixture has been updated.
2. Type AA3 Fixture has been added.
3. The Color Temperature of all interior lighting fixtures has been updated to 3000K. The Light Fixture Schedule has been updated accordingly. See updated schedule on revised drawings.

SUBSTITUTIONS AND PRODUCT OPTIONS

The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

GENERAL APPROVALS:

The following material or equipment furnished by the manufacturers listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

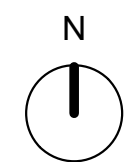
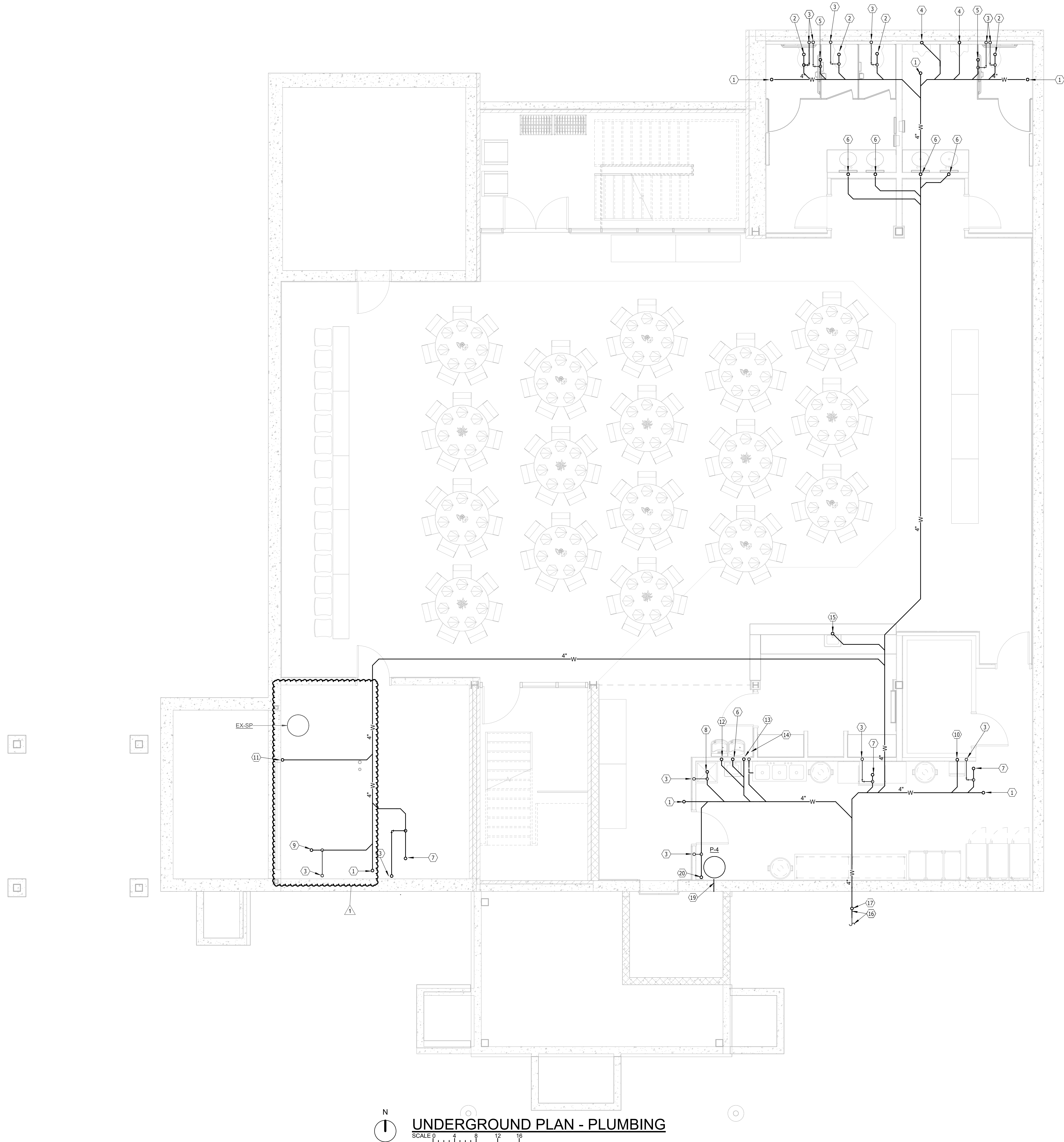
<u>SECTION</u>	<u>ITEM</u>	<u>MANUFACTURER</u>
095113	Accoustic Panel Ceilings	CSI Creative – Armstrong Feltwork Wall Panels
1424000	Hydraulic Elevators	Schumacher Elevator – Holeless Hydraulic Elevator
230800	Rooftop Air Conditioning Units	Valent, Rupp
230800	Power Roof Ventilators	Acme
230800	Registers, Grilles & Diffusers	Greenheck
230800	Variable Frequency Drives	Schneider Electric
230800	VAV Reheat Terminals	Greenheck
265119	LED Lighting Type H & HE	Nulite Lighting

Type M & ME
Type N, NE & N4
Type Q
Type BB, BBE
Type DD, DDE

Nulite Lighting, Mark Architectural Lighting
Nulite Lighting
Acolyte
Nulite Lighting
NLS Lighting

END OF ADDENDUM

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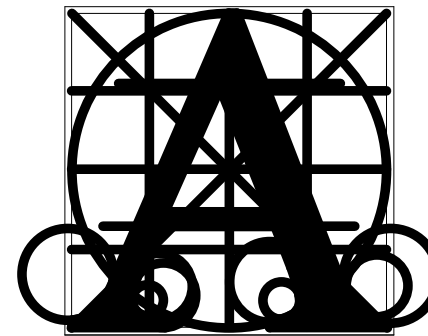
UNDERGROUND PLAN - PLUMBING
SCALE 0 4 8 12 16

GENERAL SHEET NOTES

- A. THE CEILING SPACE AVAILABLE REQUIRES COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES.
B. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE EXISTING TO BE REMOVED.
C. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE NEW WORK.

PLUMBING & HEATING NOTES

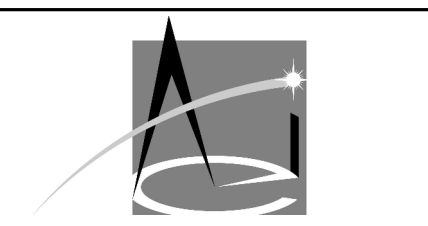
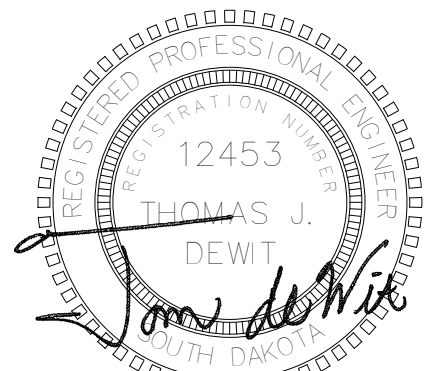
- 1 4" W UP TO CO.
2 4" W UP TO WC.
3 2" V UP.
4 2" W UP TO UR.
5 2" W UP TO FD.
6 2" W UP TO LAV.
7 2" W UP TO FSK.
8 3" W UP TO MSK.
9 4" W UP TO FSK.
10 2" W UP TO UB.
11 2" W UP TO EWC.
12 2" W UP TO EWC.
13 4" W STACK UP.
14 3" W UP TO GREASE INTERCEPTOR.
15 2" W UP TO SK.
16 CONNECT TO PIPING PROVIDED BY SITE UTILITY CONTRACTOR. SEE SITE UTILITY DRAWINGS FOR CONTINUATION.
17 4" W UP TO GRADE CO.
18 4" DRAIN PIPE SIDEWALLED AT BASE OF ELEVATOR PIT. ROUTE TO SUMP BASIN. SUMP BASIN TO BE 24"x72" OR AS DEEP AS ALLOWED BY BEDROCK. VERIFY PRIOR TO ORDERING.
19 4" W UP TO HD.



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ACEI PROJ. #123016

Project

CITY OF DELL RAPIDS RENOVATION

sheet contents

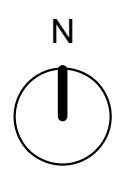
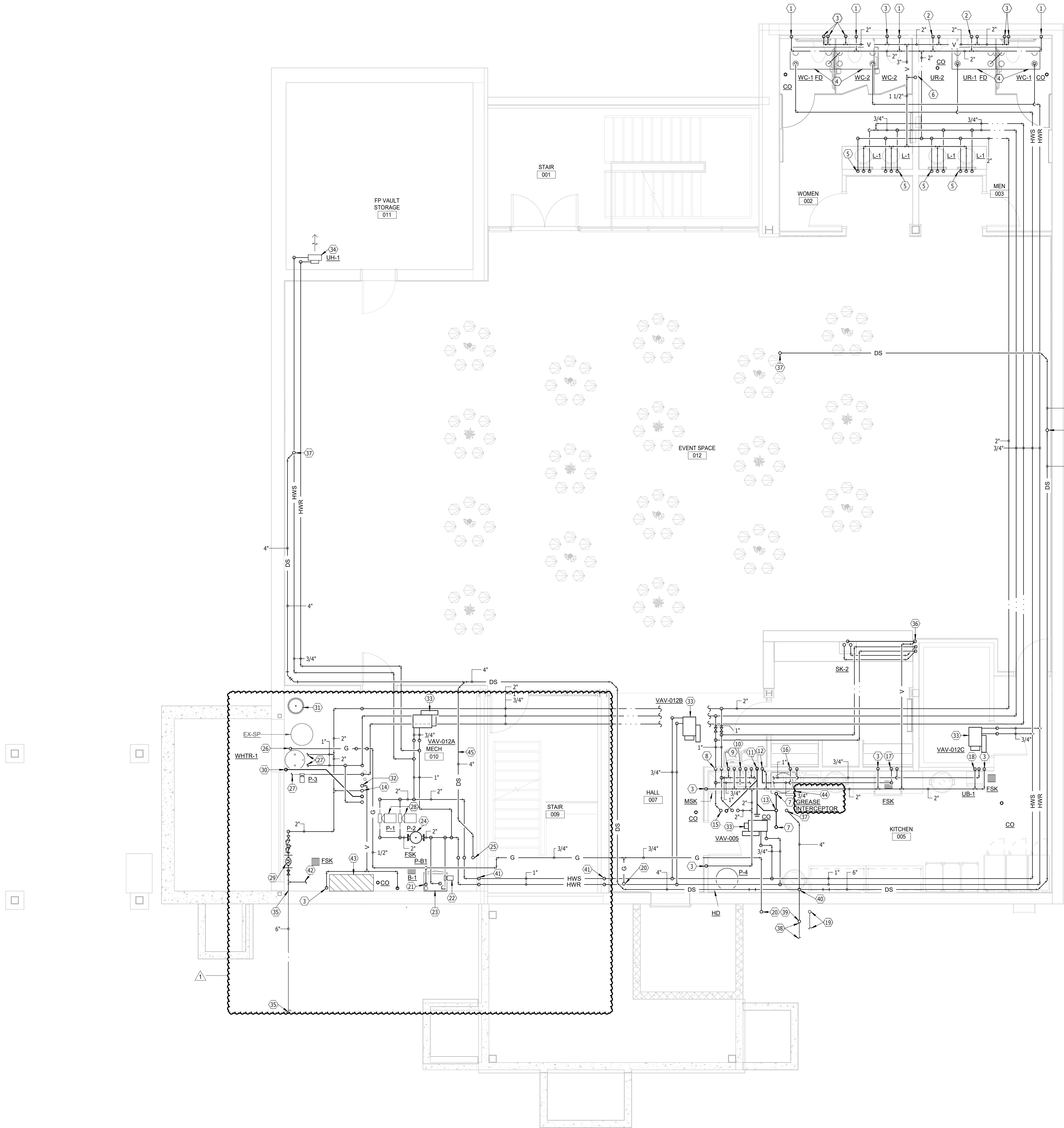
UNDERFLOOR PLAN - PLUMBING

number 2999
date 5-16-2023
revision
drawn Author checked Checker

DATE	DESCRIPTION
5-26-23	ADDENDUM I

8.30

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BASEMENT FLOOR PLAN - PLUMBING & HEATING

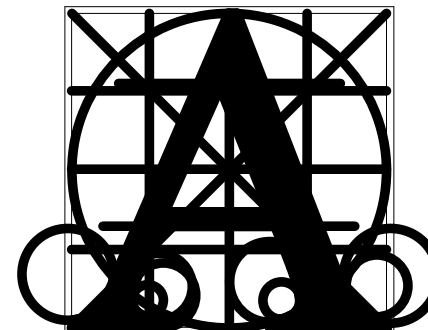
SCALE 0 2 4 6 8

GENERAL SHEET NOTES

- THE CEILING SPACE AVAILABLE REQUIRES COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES.
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PLUMBING & HEATING NOTES

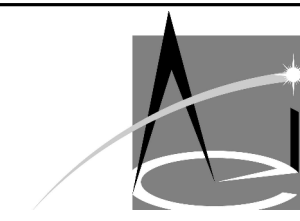
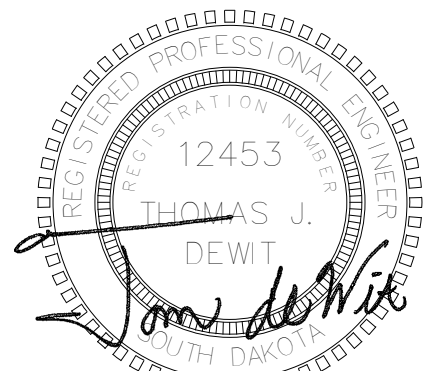
- 1 1/4" CW DN.
- 1" CW DN, 1 1/2" V/2" W DN.
- 2" V DN.
- 24X48 HYDRONIC RADIANT CEILING PANEL.
- 1/2" CW DN, 1 1/2" V/2" W DN, 1/2" HW DN.
- 3" V UP.
- 4" W UP TO WC.
- 1/2" HW DN, 3/4" CW DN W/ HB MTD 60" AFF.
- 1/2" CW DN, 1 1/2" V/2" W DN.
- 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN.
- 4" W STACK DN W/ CO 24" AFF.
- 2" V/3" W DN.
- 2" V UP 1/4" W.
- 1/2" CW UP, 2" W UP TO SK, 1/2" HW UP.
- 3/4" HW UP, 2" W UP, 3/4" CW UP, 2" V UP.
- 3/4" HW DN, 3/4" CW DN.
- 1 1/2" V/2" W DN, 1/2" CW DN 2" W.
- GAS SERVICE PIPING BY GAS UTILITY. COORDINATE PROVISION OF NEW SERVICE LOCATION WITH UTILITY.
- 3/4" G UP.
- 3/4" G DN TO BOILER WITH GAS COCK, PRESSURE REDUCING VALVE, UNION, AND DRIP LEG. SEE BOILER DETAIL.
- INLINE BOILER CIRCULATION PUMP MOUNTED ON BOILER PER MANUFACTURER'S RECOMMENDATIONS.
- WALL MOUNTED GAS-FIRED HYDRONIC HEATING BOILER. SEE BOILER DETAIL AND SCHEDULE. VENT THRU SIDEWALL PER MANUFACTURER'S RECOMMENDATION.
- LINE-SIZED AIR SEPARATOR. SEE DETAIL.
- 2" HWR UP, 2" HWS UP, 4" DS UP.
- 1/2" G DN TO WHTR WITH GAS COCK, PRESSURE REDUCING VALVE, UNION, AND DRIP LEG. VENT THRU SIDEWALL PER MANUFACTURER'S RECOMMENDATIONS. SEE WATER HEATER DETAIL.
- SEE WATER HEATER DETAIL FOR PIPING DIAGRAM.
- INLINE HEATING SECONDARY PUMPS. SEE SCHEDULE AND DETAIL.
- 2" WATER METER WITH 2" REDUCED PRESSURE BACKFLOW PREVENTER. EXTEND RPZ DRAIN TO FSK.
- 2" W STACK DN W/ CO 24" AFF.
- VERTICAL BLADDER TYPE EXPANSION TANK. WESSELS NLA-85 OR EQUAL. SEE SPECIFICATIONS AND DETAIL.
- 2" V UP.
- HYDRONIC SHUTOFF STYLE VAV. SEE SCHEDULE AND DETAIL.
- HYDRONIC PROPELLER STYLE UNIT HEATER SUSPENDED FROM STRUCTURE WITH VIBRATION ISOLATORS. SEE SCHEDULE AND DETAIL.
- 2" WATER SERVICE THRU BASEMENT SIDEWALL TO BLIND FLANGE BY SITE UTILITY CONTRACTOR. SEE SITE UTILITY DRAWINGS FOR CONTINUATION.
- 1 1/2" V DN, 1/2" HW DN, 1/2" CW DN. ROUTE PIPES UNDER COUNTER TO SK.
- 4" DS UP.
- CONNECT TO PIPING PROVIDED BY SITE UTILITY CONTRACTOR. SEE SITE UTILITY DRAWINGS FOR CONTINUATION.
- 4" DS UP TO GRADE CO.
- 8" DS TO DROP BELOW CEILING AS REQUIRED TO TIE IN TO NEW STORM SEWER SERVICE. COORDINATE INVERT ELEVATION OF PIPING DROP WITH SITE UTILITY CONTRACTOR.
- ROUTE HW/HWR PIPING DN IN WALL AND ROUTE TIGHT TO UNDERSIDE OF STAIR LANDING.
- PROVIDE 4X2X4 TEE AND ROUTE 4" CW TO FIRE SERVICE RISER LOCATED IN HATCHED AREA.
- FIRE SUPPRESSION RISER TO BE LOCATED APPROXIMATELY IN THIS AREA.
- UNDERCOUNTER GREASE INTERCEPTOR. INSTALL SINK PIPING MANIFOLD AND GW PIPING AS REQUIRED TO MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. PROVIDE PIPING ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ROUTE DOWNSPOUT ACROSS ROOM TO COMBINE WITH OTHER DOWNSPOUT PIPING AS SHOWN. MAINTAIN CLEARANCES FROM ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL WORKING SPACE DETAIL.



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ACEI PROJ. #123016

Project

CITY OF DELL RAPIDS RENOVATION

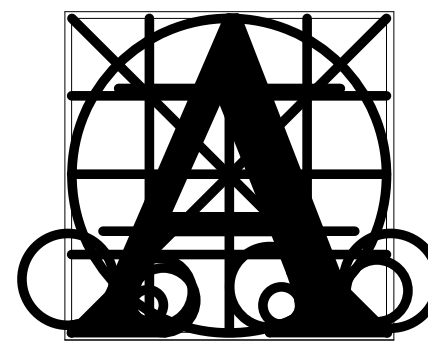
Sheet Contents

BASEMENT FLOOR PLAN - PLUMBING & HEATING

number 2999
date 5-16-2023
revision
drawn JRD checked TJD

DATE	DESCRIPTION
5-26-23	ADDENDUM I

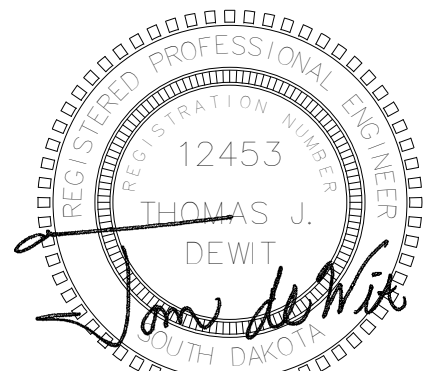
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CITY OF DELL RAPIDS RENOVATION

SCHEDULES

Project

sheet contents

number 2999
date 5-16-2023
revision
drawn JRD/NJH checked Td

DATE	DESCRIPTION
5-26-23	ADDENDUM I

8.50

ROOFTOP HEATING & COOLING SCHEDULE

UNIT NO.	MANUF.	MODEL NO.	SUPPLY FAN			HEATING CAPACITY						COOLING COIL						EER	IEER	AMB. TEMP	ELECT VOLT	PH	MCA	MOP	FILTER EFF	MAX FV	APD	THICK	OPER WT(LBS.)	REMARKS
RTU-1	AACN	RN-020-8-0-KB09-34B	CFM	O/A CFM	ESP	MHP	BHP	MBH-IN	MBH-OUT	EAT	LAT	MBH	EAT	LAT	FV	APD														
			7100	2265	2.0"	7.5	5.9	270	219	55	126	231	81.4/66.5	55.7/55.3	358	0.35"	13.2	21.5	95	208	3	105	125	MERV8	350	0.5	2"	2758	1,2,3,4,5,6	

REMARKS:

1. PROVIDE VARIABLE SPEED SCROLL COMPRESSOR FOR MODULATING COOLING CAPACITY.

2. PROVIDE MODULATING NATURAL GAS HEAT WITH 9:1 TURNDOWN RATIO AND STAINLESS STEEL HEAT EXCHANGER.

3. PROVIDE SINGLE POINT POWER CONNECTION WITH DISCONNECT AND 69K SCOR RATING.

4. PROVIDE 0-100% ECONOMIZER WITH BAROMETRIC RELIEF.

5. ESP INCLUDES AN ALLOWANCE OF 0.5" FOR DIRTY FILTERS.

6. FAN CONTROLLED BY FACTORY MOUNTED VFD.

UNIT HEATER SCHEDULE

UNIT NO.	MANUFACTURER	UNIT SIZE	TYPE	INTAKE LOCATION	DISCHARGE LOCATION	CFM	FAN MOTOR(S) RPM	FAN HP-1	FAN HP-2	VOLT	PH	HEATING CAPACITY MBH	EWT	LWT	GPM	WPD	REMARKS
CUH-1	BEACONMORRIS	06	W	B	F	630	1050	1/10	---	115	1	36.0	180	150	2.8	5'	1,2
CUH-2	BEACONMORRIS	06	W	B	F	630	1050	1/10	---	115	1	36.0	180	150	2.8	5'	1,2
UH-1	BEACONMORRIS	HB-60	HP	R	F	900	1000	1/20	---	115	1	32.7	180	150	2.8	5'	1,3

MODEL TYPE: F - FLOOR; FI - FLOOR INVERTED FLOW; W - WALL; WI - WALL INVERTED FLOW; FRW - FULLY RECESSED WALL
FRWI - FULLY RECESSED WALL INVERTED FLOW; SRW - SEMI RECESSED WALL; SRWI - SEMI RECESSED WALL INVERTED FLOW
C - CEILING; RC - RECESSED CEILING; HP - HORIZONTAL PROPELLER UNIT
LOCATIONS: F - FRONT; R - REAR; B - BOTTOM; T - TOP

REMARKS:

- HEATING CAPACITY BASED ON 75% WATER/ 25% PROPYLENE GLYCOL.
- PROVIDE TAMPER RESISTANT FASTENERS FOR ACCESS DOOR.
- HANG UNIT FROM STRUCTURE WITH NEOPRENE ISOLATORS.

BOILER SCHEDULE

BOILER NO.	MANUFACTURER	MODEL NO.	AGA INPUT (MBH)	AGA OUTPUT (MBH)	OPER EFF (%)	BURNER VOLTS	PH	MCA	OPER WT. (LBS)	REMARKS
B-1	LOCHINVAR	WHB399	399	377	94.4	120	1	4.5	213	ALL

REMARKS:

- PROVIDE HYDRONIC KIT THAT INCLUDES BOILER CIRCULATION PUMP, PUMP FLANGE KIT AND CONDENSATE NUTRALIZER.
- PROVIDE EMERGENCY SHUT-OFF MUSHROOM SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR.

PUMP SCHEDULE

PUMP NO.	MANUFACTURER	MODEL NO.	DESCRIPTION	STYLE	SIZE	GPM	HEAD	MOTOR HP	ELEC. S.P.	SUCTION SIZE	DISCH. SIZE	REMARKS		
P-1	B&G	PL-55	HEATING SECONDARY	INLINE	---	15	40	2/5	---	3250	120	1 1/5	1.5	1.2
P-2	B&G	PL-55	HEATING SECONDARY	INLINE	---	15	40	2/5	---	3250	120	1 1/5	1.5	1.2
P-3	B&G	PL-55	HEATING SECONDARY	INLINE	---	15	40	2/5	---	3250	120	1 1/5	1.5	1.2
P-4	STANCOR	SE-50-ELV	ELEVATOR SUMP	SUMP	---	20	25	1/2	---	1750	120	1	---	2 5
P-51	GRUNDFOS	UPMXL25	BOILER CIRC	INLINE	---	23	10	---	---	---	120	1 1/5	1.5	1.3

REMARKS:

- HEATING PUMP CAPACITY BASED UPON 75%WATER/25% PROPYLENE GLYCOL.
- PUMP SHALL BE NON-OVERLOADING.
- PUMP SHALL BE PROVIDED WITH BOILER PACKAGE. SHOWN HERE FOR REFERENCE ONLY.
- PUMP SHALL HAVE A BRONZE BODY.
- OIL MINDER PUMP WITH CONTROL PANEL. SEE SPECIFICATIONS.

PLUMBING FIXTURE SCHEDULE

FIXTURE SYMBOL	TYPE	MANUFACTURER	MODEL NO.	TRIM	SUPPLIES	WASTE	REMARKS
WC-1	WATER CLOSET FLUSH VALVE FLOOR MOUNTED ELONGATED	AMERICAN STANDARD	2234.015	SLOAN 8111-1.6	---	---	CHURCH 9500SSCT SEAT TOP SPUD, BATTERY OPERATOR
WC-2	WATER CLOSET FLUSH VALVE FLOOR MOUNTED ELONGATED, HANDI	AMERICAN STANDARD	3043.001	SLOAN 8111-1.6	---	---	CHURCH 9500SSCT SEAT TOP SPUD, BATTERY OPERATOR MAX. AFF. TRIP LEVER TO WIDE SIDE OF STALL
UR-1	URINAL WASHOUT WALL HUNG HANDI	AMERICAN STANDARD	6506.011	SLOAN 8186-0.5	---	---	JOSAM SERIES 17000 CARRIER MNT. HEIGHT ON ARCH PLANS TOP SPUD, BATTERY OPERATOR
L-1	LAVATORY UNDERCOUNTER HANDI	AMERICAN STANDARD	0495.221	SYMMONS S-6080 BATTERY OPERATOR	BRASSCRAFT KTSOR19C	GRID DRAIN	17 GA. C.P. P-TRAP OFFSET WASTE ARM BEHIND LAM SKIRT LAWLER TMM-1070 MIXING VALVE
L-2	LAVATORY WALL HUNG HANDI	AMERICAN STANDARD	0355.012	SYMMONS S-6080 BATTERY OPERATOR	BRASSCRAFT KTSOR19C	GRID DRAIN	17 GA. C.P. P-TRAP JOSAM SERIES 17000 CARRIER MNT. HEIGHT ON ARCH PLANS W/TRUEBRO WATER & WATER PIPE PROTECTOR, OFFSET ARM LAWLER TMM-1070 MIXING VALVE CW HB MNTD 5'-0" AFF
MSK	MOP SINK FLOOR MOUNTED	ZURN	Z1996-24-SD-HH-MH	ZURN Z843M1-RC-CS W/ VACUUM BREAKER	---	---	
SK-1	SINK-STAINLESS STEEL SINGLE COMPARTMENT	ELKAY	DLR-1919-10	CHICAGO 895-317-E3	BRASSCRAFT KTSOR19C	UK-35 STRAINER	17 GA. C.P. P-TRAP
EW-C1	ELECTRIC WATER COOLER RECESSED DUAL HEIGHT W/BOTTLE FILL	ELKAY	LZ8TL8WSSP	---	BRASSCRAFT KTSOR19C	---	17 GA. C.P. P-TRAP MNT. HEIGHT ON ARCH. PLANS

REMARKS:

- HANDICAPPED FLUSH VALVES SHALL BE ADA COMPLIANT.
- FLUSH VALVES SHALL HAVE A VANDAL RESISTANT STOP CAP.
- FLUSH VALVE ESCUTCHEONS SHALL BE CHROME PLATED WITH HEAVY WALL THICKNESS AND SET SCREW.
- PROVIDE & INSTALL TRANSFORMERS AS RECOMMENDED BY THE MFG TO SERVE FIXTURES IN PLUMBING CHASE. PROVIDE AND INSTALL ALL INTERCONNECTING LOW VOLTAGE WIRING AND CONNECTIONS TO SENSORS.
- COORDINATE FAUCET/ANTI-ROTATE REQUIREMENTS WITH COUNTERTOP MFG/GENERAL CONTRACTOR.

REGISTER GRILLE & DIFFUSER SCHEDULE

SYMBOL	MANUF.	CONSTR MAT'L	MODEL NO.	MAX CFM	OVERALL SIZE	THROAT SIZE	NC	THROW	TOTAL PD (IN.W.G.)	FRAME	PATTERNS	REMARKS
D1	KRUEGER	S	PLQ	110	24/24	8"Ø	10	9	0.08	LAY-IN	4-WAY	
D2	KRUEGER	S	PLQ	230	24/24	8"Ø	10	9	0.05	LAY-IN	4-WAY	
D3	KRUEGER	S	PLQ	375	24/24	10"Ø	15	13	0.08	LAY-IN	4-WAY	
D4	KRUEGER	S	PLQ	415	24/24	12"	10	14	0.07	LAY-IN	4-WAY	
G1	KRUEGER	A	EGCS	1000	24/12	22/10	25	---	0.08	LAY-IN	12" GRID	
G2	KRUEGER	A	EGCS	1400	24/24	22/22	15	---	0.03	LAY-IN	12" GRID	
G3	KRUEGER	A	S80Z	490	14/14	12/12	13	---	0.04	SURFACE	SD	
R1	KRUEGER	A	5885	300	14/10	12/8	25	14	0.08	SURFACE	DD	
R2	KRUEGER	S	5885	600	14/14	12/12	26	45	0.08	SURFACE	DD	

LEGEND:
R - REGISTER
G - GRILLE
D - DIFFUSER

SD - SINGLE DEFLECTION
DD - DOUBLE DEFLECTION
A - ALUMINUM CONSTRUCTION.
S - STEEL CONSTRUCTION.

GENERAL NOTES:

- THROWS ARE BASED ON TERMINAL VELOCITIES AT 50 FPM.
- NC VALUES ARE BASED UPON A 10dB ROOM ATTENUATION.
- SEE SPECIFICATIONS FOR OPPOSED BLADE DAMPER REQUIREMENTS.

REMARKS:

VAV TERMINAL SCHEDULE

UNIT NO.	MANUF.	MODEL	INLET SIZE	CLG CFM MAX	CLG CFM MIN	HTG CFM MAX	TERM S.P.	RAD NC	DISCH NC	EAT	MBH	GPM	WPD	EWT	LWT	REMARKS
VAV-005	PRICE	SDV	6	315	100	315	0.5"	20	21	55	16.2	1.1	5	180	150	1,2,3
VAV-012A	PRICE	SDV	10	900	270	270	0.5"	23	24	55	8.7	0.6	5	180	150	1,2,3
VAV-012B	PRICE	SDV	10	1040	320	320	0.5"	23	24	55	8.1	0.6	5	180	150	1,2,3
VAV-012C	PRICE	SDV	10	900	270	270	0.5"	23	24	55	8.7	0.6	5	180	150	1,2,3
VAV-100	PRICE	SDV	6	200	60	60	0.5"	20	21	55	4.2	0.5	5	180	150	1,2,3
VAV-102	PRICE	SDV	8	600	180	350	0.5"	24	25	55	24.3	1.7	5	180	150	1,2,3
VAV-103	PRICE	SDV	10	980	300	300	0.5"	23	24	55	11.0	0.8	5	180	150	1,2,3
VAV-105	PRICE	SDV	6	350	110	110	0.5"	20	21	55	6.3	0.5	5	180	150	1,2,3
VAV-109	PRICE	SDV	6	280	90	90	0.5"	20	21	55	4.4	0.5	5	180	150	1,2,3
VAV-112	PRICE	SDV	8	630	190	250	0.5"	24	25	55	15.6	1.1	5	180	150	1,2,3
VAV-119	PRICE	SDV	12	1145	350	350	0.5"	25	26	55	24.1	1.7	5	180	150	1,2,3
VAV-121	PRICE	SDV	8	435	140	185	0.5"	24	25	55	10.7	0.7	5	180	150	1,2,3
VAV-122	PRICE	SDV	6	250	80	250	0.5"	20	21	55	15.4	1.1	5	180	150	1,2,3
VAV-125	PRICE	SDV	10	710	220	220	0.5"	23	24	55	8.9	0.6	5	180	150	1,2,3
VAV-126	PRICE	SDV	8	415	130	130	0.5"	24	25	55	8.9	0.6	5	180	150	1,2,3

REMARKS:

- SOUND DATA SHALL BE TAKEN FROM ARI STANDARD 880 (LATEST EDITION PUBLISHED DATA @ 1.5" DELTA P).
- TERMINAL S.P. INCLUDES COIL APD.
- COIL CAPACITIES ARE BASED UPON HTG CFM AND 75% WATER/25% PROPYLENE GLYCOL.

FAN SCHEDULE

FAN NO.	MANUF.	MODEL NO.	TYPE	LOCATION	CFM	S.P.	RPM	TIP SPEED (FPM)	MOTOR MHP	BHP	ELEC. VOLTS	PH	FLA	SONES	WEIGHT (LBS)	REMARKS
EF-1	GREENHECK	G-100-VG	DD DOWNBLAST	ROOF	650	0.5"	1,227	3,574	1/4	0.1	115	1	2.9	5.4	68	1,2,3
EF-003	GREENHECK	G-100-CG	DD DOWNBLAST	ROOF	450	0.5"	1,161	3,381	1/4	0.07	115	1	2.9	4.1	68	1,2,3
EF-005	GREENHECK	CUE-130-VG	DD UPBLAST	ROOF	1,000	1.0"	1,418	4,848	1/2	0.28	115	1	6.4	11.3	92	1,4,5

REMARKS:

- DIRECT DRIVE VARIABLE SPEED MOTOR AND INTEGRAL ELECTRICAL DISCONNECT.
- PROVIDE INSULATED ROOF CURB ADAPTER AND NEW BACKDRAFT DAMPER AND BIRDSCREEN.
- FAN CONTROLLED BY SPACE OCCUPANCY SENSORS.
- FAN CONTROLLED BY SWITCH WITH PILOT LIGHT.
- PROVIDE 24" INSULATED ROOF CURB WITH BACKDRAFT DAMPER AND BIRDSCREEN.

WATER HEATER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	INPUT (MBH)	UEF	RECOVERY @ 90° GPH	ELECTRICAL V/PH	FLA	REMARKS
WYHR-1	HTP	PH76-90	76	90	154	120/1	5	ALL

REMARKS:

- ASME T & P RELIEF VALVE.
- DIRECT VENT/SEALED COMBUSTION.
- AMTROL THERMAL EXPANSION TANK MODEL 8T-12 OR EQUAL.

Catalog Number:
CP3B51119A42PBSP1

120/240 VAC, 1-phase, 3-wire; 100 Amps Maximum, (see Main circuit breaker rating)
Rainproof - Type 3R, Steel (G90) Enclosure, painted MINT GREEN
Enclosed Industrial Control - Suitable ONLY for Use as Service Equipment
The short circuit current rating is 42,000 RMS symmetrical amperes maximum at 240volts maximum, in accordance with the table below, but is limited to the lowest short circuit rating of any installed circuit breaker. Watthour meter is not included in the short circuit rating. Replacement circuit breakers must be of the same type and rating.

METERED CIRCUIT DIRECTORY

No.	Amp.	Poles	Circuit Description	No.	Amp.	Poles	Circuit Description
1	100	2	Main	2			THIS SPACE NOT AVAILABLE
3				4			THIS SPACE NOT AVAILABLE
5	30	1	ATM-1	6			THIS SPACE NOT AVAILABLE
7	30	1	ATM-2	8			THIS SPACE NOT AVAILABLE
9	20	1	AB-244-1	10			THIS SPACE NOT AVAILABLE
11	20	1	AB-244-2	12			THIS SPACE NOT AVAILABLE
13	20	1	AB-244-3	14			THIS SPACE NOT AVAILABLE
15	20	1	AB-244-4	16			THIS SPACE NOT AVAILABLE
17	20	1	General Use 1 (Siemens Type: QPF)	18			THIS SPACE NOT AVAILABLE
19	20	1	General Use 2 (Siemens Type: QPF)	20			THIS SPACE NOT AVAILABLE
21	20	1		22			THIS SPACE NOT AVAILABLE
23	20	1		24			THIS SPACE NOT AVAILABLE

NOTE:
Rear utility access door sealed with Penta-bolt

AIC RATING	MAIN	BRANCHES
10	MILBANK TYPE MQP; SIEMENS TYPE QP; CUTLER HAMMER TYPE HQP, BR; GE TYPE THQL	MILBANK TYPE: MQP; SIEMENS TYPE: QP (1-POLE 70A MAX), QT, QPF; CUTLER-HAMMER TYPE: BR, QFCB, HQP, QPGF; GE TYPE TQL, THQL, THQL-GF
22	MILBANK TYPE MQPH; SIEMENS TYPE QPH; CUTLER HAMMER TYPE QPHW, BRH; GE TYPE THHQL	MILBANK TYPE: MQPH; SIEMENS TYPE: QPH (1-POLE 70A MAX), QPHF; CUTLER-HAMMER TYPE: BRH, QPHW, QPHGF; GE TYPE THHQL, THHQL-GF
22 SERIES RATED	SIEMENS QPH	SIEMENS TYPE: QP (1-POLE 70A MAX), QT, QPF
	CUTLER HAMMER TYPE QPHW	CUTLER HAMMER TYPE HQP, QPGF
	GE TYPE THHQL	GE TYPE THQL
42	SIEMENS TYPE HQP; CUTLER HAMMER TYPE QHPX	SIEMENS TYPE: HQP (1-POLE 70A MAX); CUTLER-HAMMER TYPE: QHPX
42 SERIES RATED	SIEMENS HQP	SIEMENS TYPE: QP (1-POLE 70A MAX), QPH, QT, QPF, QPHF

Circuit breaker handle trip position is between “ON” and “OFF”. To reset breaker, move handle to the full “OFF” position, then to full “ON”.

Terminal Information, Use AL/CU conductors

FIELD WIRED CONNECTORS				BUS CONNECTIONS				For Equipment Ground ONLY, multiple conductors in a single opening are permissible as indicated below		
Socket Size	Torque Lb.-In.	SLOTTED HEAD SCREWS		THREADFORMING SCREWS		Torque, Lb.-In.	AWG Wire Size	Small Hole	Large Hole	
		AWG Wire Size	Torque, Lb.-In.	SCREW	MAT'L					
5/16"	275	#14-10	20 35	10-24	AL	30	#14-10	1-2	1-2	
3/8"	375	#8	25 40	10-24	CU	50	#10	1	3	
1/2"	500	#6	35 45	1/4-20	AL	50	#8 - 6	1	1	
9/16"	600	#4	- 45	1/4-20	CU	72	#4 - 1/0	1	1	
		#3-1/0	- 50							

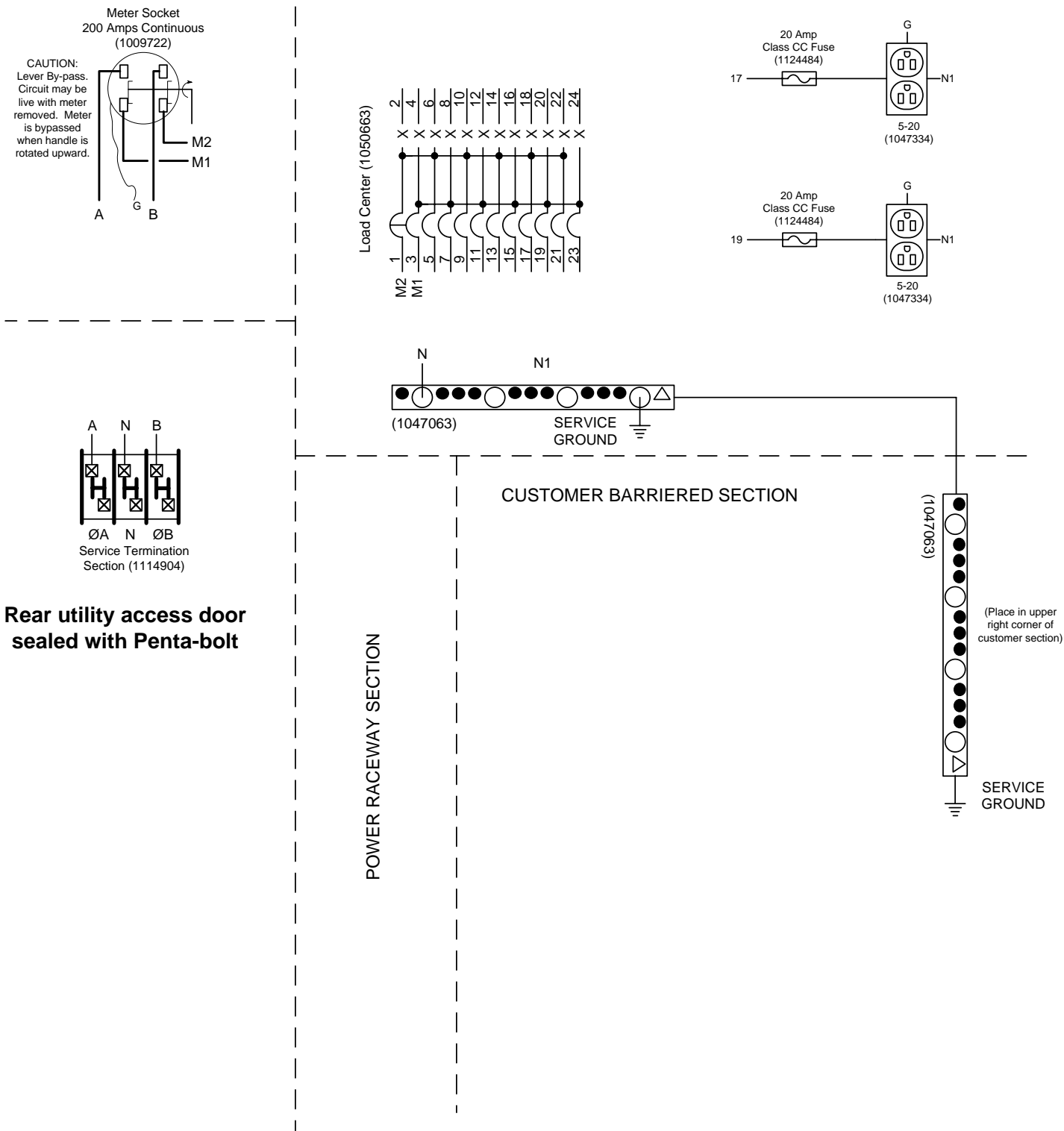
Shipping may loosen electrical connections. CHECK TIGHTNESS BEFORE ENERGIZING.

BONDED NEUTRAL – Remove neutral load conductors for test purposes only! FIELD INSTALLED conductors shall be 60°C, 75°C, or 90°C, sized to 60°C rating for 110 amps or less; and 75°C or 90°C for 125 amps and above.

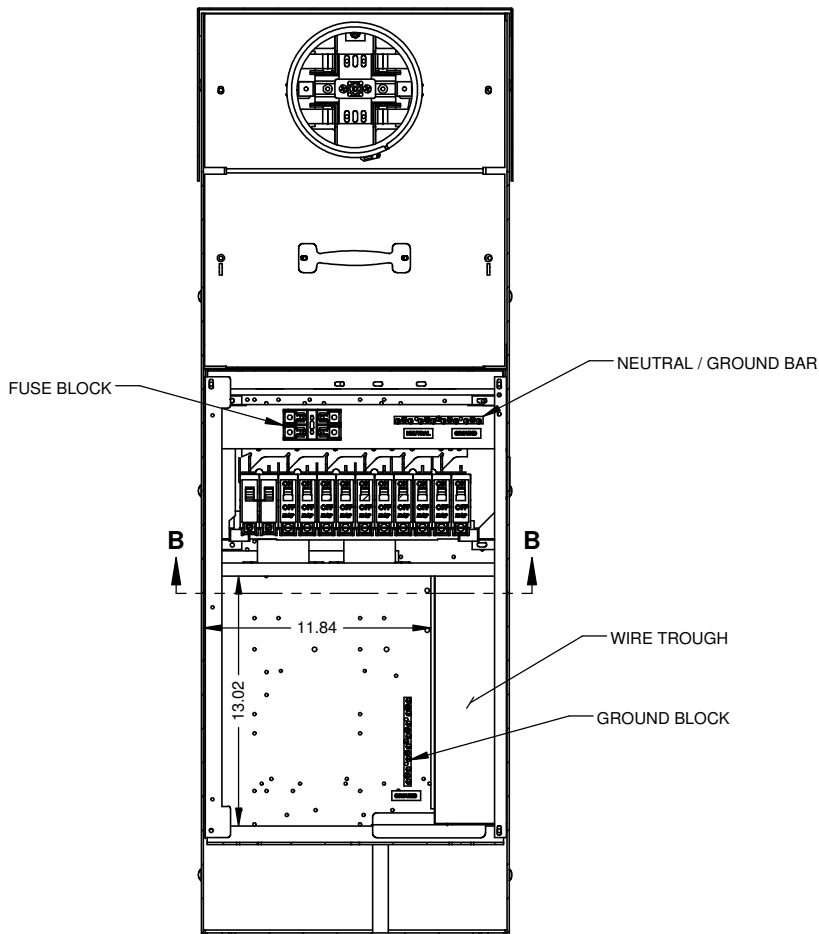


Catalog Number:
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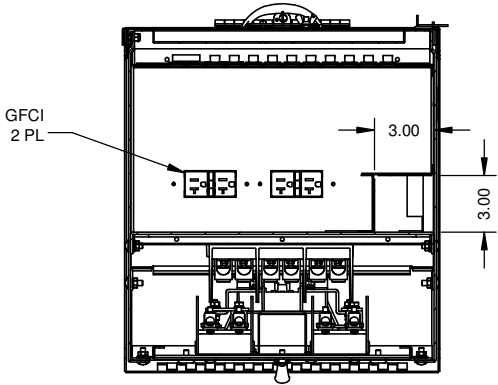
120/240 VAC, 1-phase, 3-wire; 100 Amps Maximum, (see Main circuit breaker rating)
Rainproof - Type 3R, Steel (G90) Enclosure, painted MINT GREEN
Enclosed Industrial Control - Suitable ONLY for Use as Service Equipment



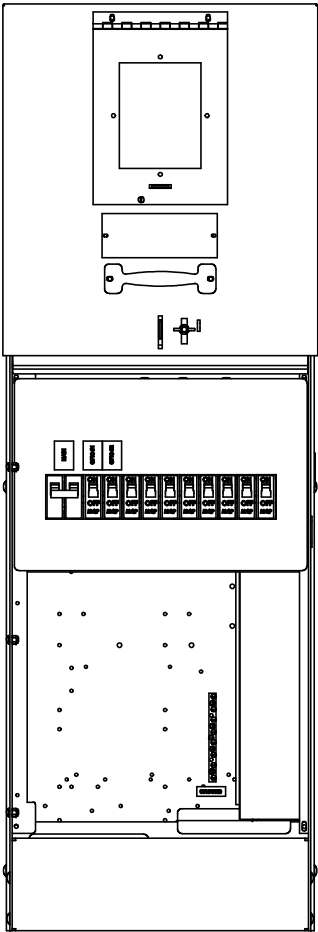
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								Drawn By:	DR	Approved By:		Date:	5-27-06	Sheet	1 of 2

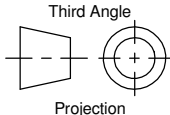



SECTION A-A

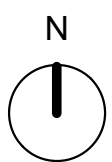
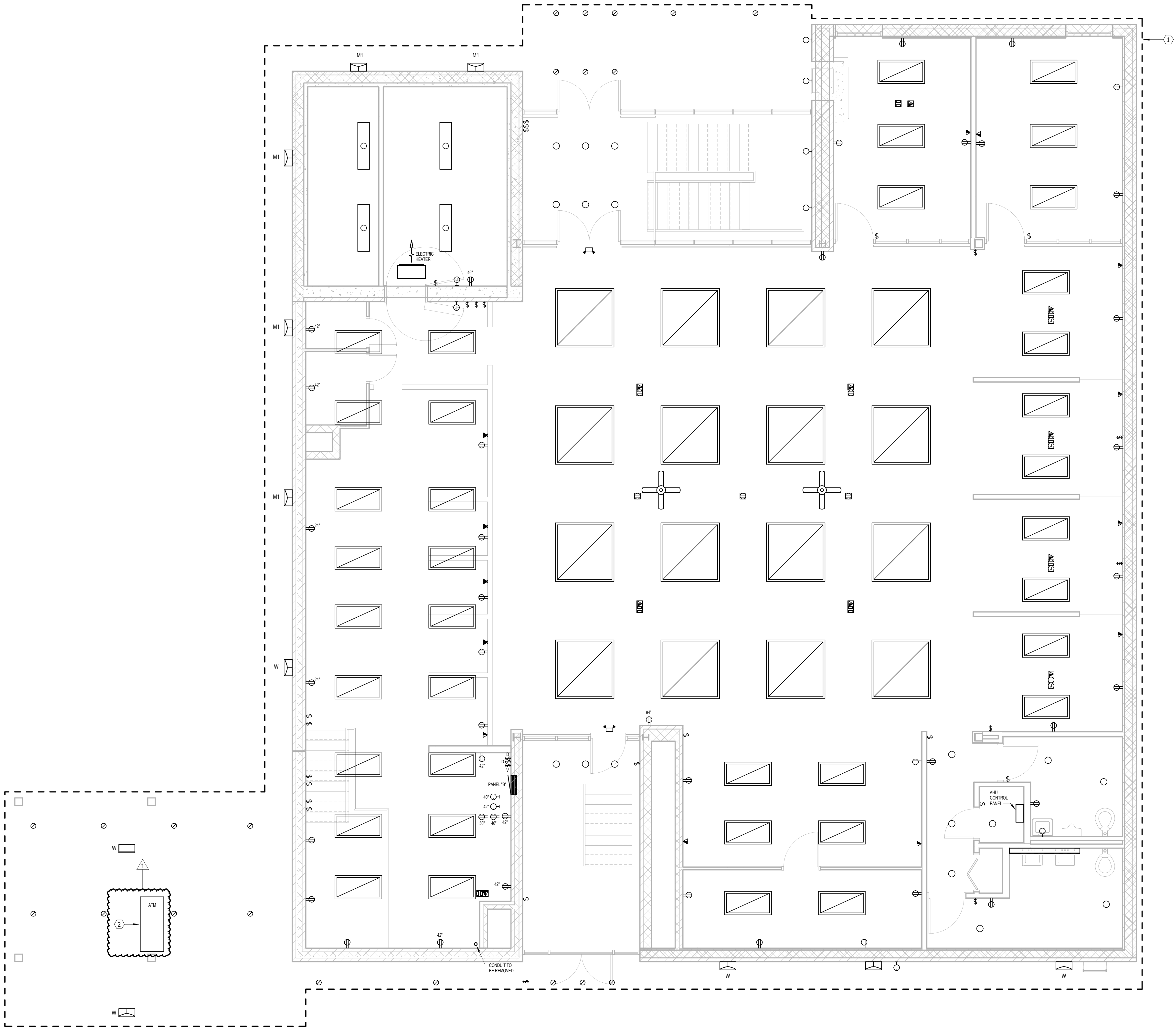


SECTION B-B



Material:		 Third Angle Projection		 MILBANK MANUFACTURING CO.		General Offices: Kansas City, MO	
Finish:				Title:		Wells Fargo	
Tolerances: Unless Specified Otherwise X.X ±.1 X.XX ±.03 X.XXX ±.015 X" ±2°				Catalog No.:			
				Ref:			
Scale:		NTS		Drawing No.:		CP3B11119A42SP	
Drawn By: DR		Approved By:		Date:		5-27-06	
				Sheet		2 of 2	

*	5-27-06	CONCEPT RELEASE	DR						
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MAIN FLOOR PLAN - DEMO - ELECTRICAL
SCALE 0 2 4 6 8

ELECTRICAL NOTES

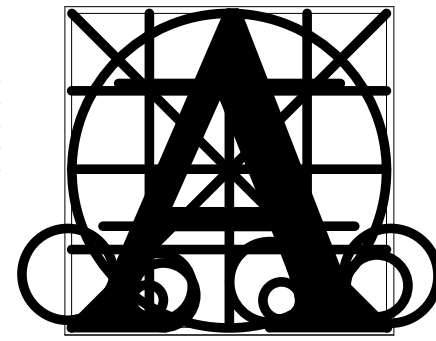
1. DEMO ALL ELECTRICAL SYSTEMS. REPLACE WITH NEW ATM TO REMAIN OPERATIONAL DURING CONSTRUCTION. ELECTRICAL CIRCUITS AND COMMUNICATIONS TO REMAIN IN PLACE UNTIL NEW ELECTRICAL SERVICE IS INSTALLED FOR ATM. ALL OUTAGES TO BE COORDINATED WITH OWNER.

GENERAL SHEET NOTES

A. ITEMS SHOWN ARE FOR INTENT ONLY AND ARE NOT ALL-INCLUSIVE TO ALL EXISTING ELECTRICAL ITEMS. FIELD VERIFY EXISTING CONDITIONS.

GENERAL DEMOLITION SHEET NOTES

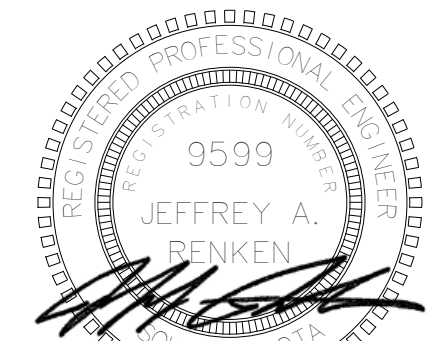
- A. DEMO HATCHED ITEMS.
- B. PERFORM ALL DEMOLITION WORK AS REQUIRED AND REMODELING WORK AS SHOWN ON THE DRAWINGS INCLUDING MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- C. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND SHOULD HAVE HAD VISITED THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE/SHE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS/HER PART.
- D. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN, ALTHOUGH A FULL ATTEMPT HAS BEEN MADE TO SHOW SOME EXISTING CONDITIONS, OF WHICH INFORMATION HAS BEEN TAKEN FROM EXISTING RECORD DRAWINGS OF THIS PROJECT. THE DRAWINGS SHOWING LOCATIONS OF EXISTING EQUIPMENT, OUTLETS, FIXTURES, ETC. IN EXISTING AREA ARE APPROXIMATE ONLY (FIELD VERIFY).
- E. BRANCH CIRCUITS SHALL BE REUSED WHERE PRACTICAL AND SHALL, IN ADDITION, BE REMODELED AS REQUIRED. THE CONTRACTOR SHALL CONCEAL ALL WORK WHERE POSSIBLE. WHERE EXPOSED WORK IS REQUIRED IN FINISHED AREAS, THE CONTRACTOR SHALL USE SURFACE MOUNTED, MULTI-OUTLET RACEWAY, PANDUIT T70 SERIES. EXISTING RUNS SHALL BE VERIFIED.
- F. EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED, SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES, IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
- G. OUTLETS FROM WHICH FIXTURES, SWITCHES, RECEPTACLES, AND/OR OTHER ELECTRICAL DEVICES ARE MOVED AND WHICH ARE NOT REPLACED OR REUSED SHALL BE REMOVED OR, IF NOT POSSIBLE, PROVIDED WITH A BLANK PLATE ON THE OUTLET BOX. WHERE OUTLETS, BOXES, ETC. ARE COMPLETELY REMOVED, THE CONTRACTOR SHALL CUT OFF CONDUITS AND REMOVE WIRING.
- H. WHERE EXISTING LIGHT FIXTURES ARE TO BE RE-USED, THE CONTRACTOR SHALL CLEAN THE FIXTURES AND REPLACE LAMPS. THE CONTRACTOR SHALL ALSO REPAIR OR REPLACE DEFECTIVE PARTS, INCLUDING LENSES, BALLASTS, ETC. AS REQUIRED SO THAT THE FIXTURES ARE FUNCTIONING CORRECTLY.
- I. WHERE CONDUITS EXTENDING THROUGH FLOORS ARE TO BE ABANDONED, THE CONTRACTOR SHALL CUT AND CAP OR PLUG CONDUIT, SO THAT IT WILL NOT PROTRUDE ABOVE THE FLOOR.
- J. WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, INTO A CRAWL SPACE OR ACCESSIBLE CEILING, WHERE IT IS IMPOSSIBLE TO REMOVE THE CONDUIT, IT SHALL BE CUT OFF AND CAPPED OR PLUGGED.
- K. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED.
- L. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR THE OWNER.
- M. ALL TEMPORARY AND REMODELING WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- N. EXAMINE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING EXISTING, TEMPORARY, REMODELED AND NEW AREAS.
- O. THE OWNER RESERVES THE RIGHT TO RETAIN ANY SELECTED SALVAGE ITEMS, ALL OTHER ITEMS SHALL BE THE CONTRACTORS RESPONSIBILITY FOR LEGAL DISPOSAL.



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ACEI PROJ. #123016

Project

CITY OF DELL RAPIDS RENOVATION

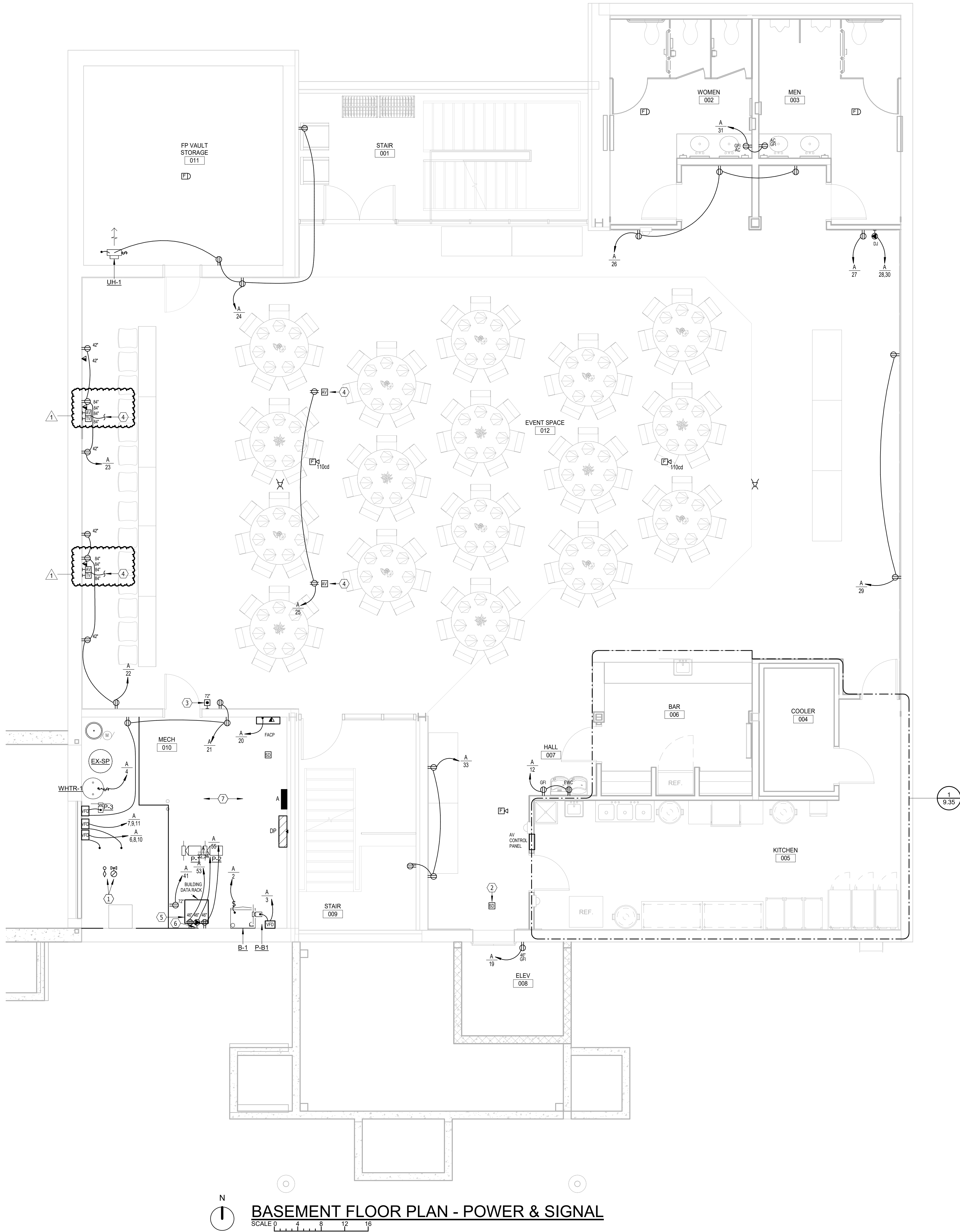
Sheet Contents

MAIN DEMOLITION PLAN - ELECTRICAL

number	2999
date	5-16-2023
revision	
drawn	JEB
checked	JAR

DATE	DESCRIPTION
5-30-2023	ADDENDUM I

9.21



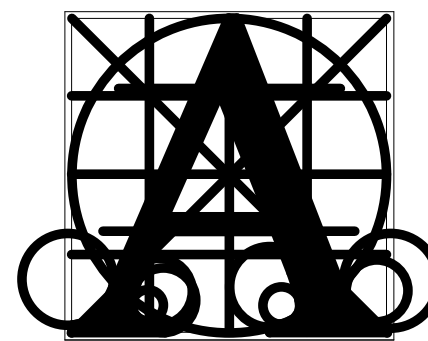
BASEMENT FLOOR PLAN - POWER & SIGNAL

ELECTRICAL NOTES

1. VERIFY QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE SPRINKLER CONTRACTOR.
2. PROVIDE SEPARATE POWERED SMOKE DETECTOR WITH AUXILIARY ALARM CONTACTS. CONNECT TO ELEVATOR RECALL CONTROLS. ELECTRICAL CONTRACTOR TO PROVIDE WIRING, FINAL TERMINATIONS BY ELEVATOR INSTALLER.
3. PROVIDE 72" AFF BOILER EMERGENCY SHUT-OFF. COORDINATE WITH MECHANICAL CONTRACTOR.
4. PROVIDE 1/2" CONDUIT RACEWAY FROM AV JUNCTION BOX TO AV CONTROL PANEL. PROVIDE HDMI CABLE AND OUTLET PLATES AT EACH LOCATION.
5. DATA RACK PROVIDED BY ELECTRICAL CONTRACTOR.
6. PROVIDE UPS OUTLET, 30A/2P TWIST LOCK RECEPTACLE.
7. PROVIDE GFI PROTECTION PER NEC 210.8.

GENERAL SHEET NOTES

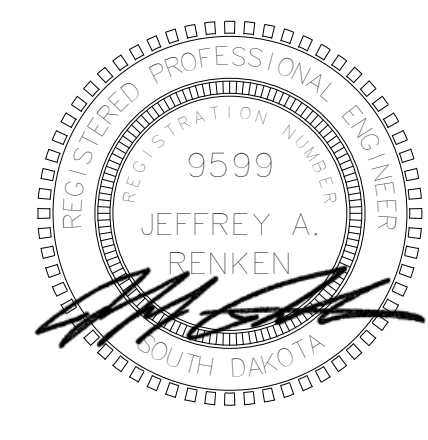
- A. RECEPTACLES SHALL BE TAMPER RESISTANT IN ACCORDANCE WITH THE NEC AND LOCAL CODE REQUIREMENTS. AT A MINIMUM, TAMPER RESISTANCE RECEPTACLES SHALL BE PROVIDED IN ALL PUBLIC AREAS.
- B. TELECOMMUNICATIONS OUTLETS TO BE COMPRISED OF (2D) TWO DATA DROPS PER LOCATION. UNLESS OTHERWISE NOTED, CABLEING TO BE CAT 6. PROVIDE ALL CONNECTIONS AND ASSOCIATED ITEMS AS REQUIRED FOR SYSTEM INTEGRITY. SEE SPECIFICATIONS.
- C. PROVIDE (1D) CAT 6 DATA CABLEING AT EACH CAMERA LOCATION SHOWN. ROUTE TO TELECOM RACK (IDF). CAMERAS PROVIDED BY SECURITY SYSTEM VENDOR.
- D. WIRELESS ACCESS POINTS (WAP) TO HAVE (2D) CAT 6 PER LOCATION. PROVIDE CABLEING AND TERMINATIONS. WAP DEVICES SUPPLIED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR.
- E. COORDINATE QUANTITY AND LOCATION OF FIRE SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. PROVIDE ELECTRICAL CONNECTIONS, INITIATION DEVICES ETC. AS REQUIRED.
- F. GFI CIRCUIT BREAKERS ALLOWED IN LIEU OF GFI RECEPTACLES.
- G. DOOR SECURITY EQUIPMENT SHALL BE PROVIDED BY OWNER. ELECTRICAL CONTRACTORS SHALL PROVIDE BACKBOX, RACEWAY, AND WIRING AT DESIGNATED LOCATIONS AS SHOWN ON PLANS. COORDINATE AND VERIFY ALL REQUIREMENTS WITH OWNER.
- H. PROVIDE (1D) DATA DROP AT "TV" SYMBOL LOCATIONS.
- I. WHERE RACEWAY AND BACKBOXES ARE EXISTING IN BLOCK WALLS, THEY MAY BE REUSED IF THEY ARE IN GOOD CONDITION FOR NEW DEVICES.



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ACEI PROJ. #123016

CITY OF DELL RAPIDS RENOVATION

BASEMENT FLOOR PLAN - POWER & SIGNAL

Project

number 2999

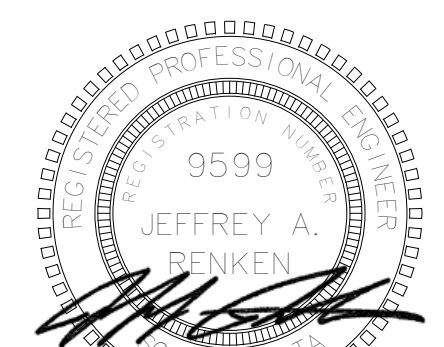
date 5-16-2023

revision

drawn JEB checked JAR

DATE	DESCRIPTION
5-30-2023	ADDENDUM I

9.32



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CITY OF DELL RAPIDS RENOVATION

sheet contents

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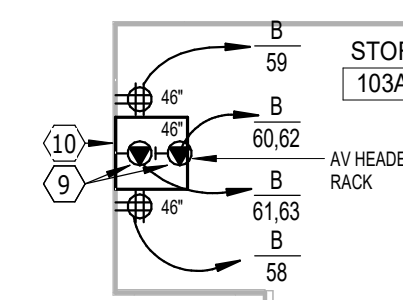
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ELECTRICAL NOTES

1. TO ELEVATOR EMERGENCY TELEPHONE.
2. PROVIDE 120V/1P LOCKABLE ENCLOSED CIRCUIT BREAKER FOR ELEVATOR CAB POWER. COORDINATE EXACT LOCATION WITH ELEVATOR EQUIPMENT MANUFACTURER. MOUNT CIRCUIT BREAKER ON ELEVATOR SHUNT FROM SHUNT TRIP CIRCUIT.
3. ELEVATOR EQUIPMENT POWER 200AMP/3P 208V/3PH. (COORDINATE WITH ELEVATOR SHUNT FROM SHUNT TRIP CIRCUIT FOR ELEVATOR EMERGENCY LOWERING SYSTEM). COORDINATE LOCATION WITH EQUIPMENT SUPPLIER AND INTERLOCK SHUNT TRIP CIRCUIT TO ELEVATOR SHUNT TRIP CIRCUIT.
4. PROVIDE 135 DEGREE HEAT DETECTOR AT TOP OF ELEVATOR SHAFT. LOCATED WITHIN 24" OF SPRINKLER HEAD. INTERLOCK WITH ELEVATOR EQUIPMENT SHUNT TRIP CIRCUIT.
5. PROVIDE SEPARATE POWERED SMOKE DETECTOR WITH AUXILIARY ALARM CONTACTS. CONNECT TO ELEVATOR RECALL CONTROLS. ELECTRICAL DETECTOR TO PROVIDE WIRING, FINAL TERMINATIONS BY ELEVATOR INSTALLER.
6. CO-LOCATE WEATHERPROOF FIRE ALARM NOTIFICATION DEVICE WITH FIRE DEPARTMENT CONNECTION (FDC).
7. PROVIDE 1/2" CONDUIT RACEWAY FROM AV JUNCTION BOX TO ACCESSIBLE CEILING SPACE TO ACCOMMODATE AV CABLEING. PROVIDE HDMI CABLEING AND OUTLET PLATES AT EACH AV JUNCTION BOX.
8. PROVIDE 1/2" CONDUIT RACEWAY FROM ABOVE FINISHED CEILING SPACE TO APPROXIMATE LOCATION OF DATA RACK FOR FUTURE USE.
9. PROVIDE UPS TO DATA RACK OUTLET PLATE.
10. DATA RACK PROVIDED BY ELECTRICAL CONTRACTOR.
11. PROVIDE 1/2" CONDUIT RACEWAY FROM AV JUNCTION BOX IN CHAMBERS ROOM TO ACCESSIBLE CEILING SPACE IN ROOM 100A. PROVIDE HDMI CABLEING AND OUTLET PLATES AT EACH AV JUNCTION BOX.

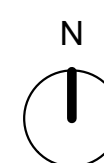
GENERAL SHEET NOTES

- A. RECEPTACLES SHALL BE TAMPER RESISTANT IN ACCORDANCE WITH THE NEC AND LOCAL CODE REQUIREMENTS. AT A MINIMUM, TAMPER RESISTANCE RECEPTACLES SHALL BE PROVIDED IN ALL PUBLIC AREAS.
- B. TELECOMMUNICATIONS OUTLETS TO BE COMPLIED OF (2D) TWO DATA PORTER LOCATIONS. THE FOLLOWING ARE NOTED: CABLEING TO BE CAT 6. PROVIDE ALL CONNECTIONS AND ASSOCIATED ITEMS AS REQUIRED FOR SYSTEM INTEGRITY. SEE SPECIFICATIONS.
- C. PROVIDE (1D) CAT 6 DATA CABLEING AT EACH CAMERA LOCATION SHOWN. ROUTE TO TELECOM RACK (IDF, CAMERAS PROVIDED BY SECURITY SYSTEM VENDOR).
- D. WIRELESS ACCESS POINTS (WAP) TO HAVE (2D) CAT 6 PER LOCATION. PROVIDE CABLEING AND TERMINATIONS. WAP DEVICES SUPPLIED BY OWNER. REQUIRED BY ELECTRICAL CONTRACTOR.
- E. COORDINATE QUANTITY AND LOCATION OF FIRE SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. PROVIDE ELECTRICAL CONNECTIONS, INITIATION DEVICES ETC. AS REQUIRED.
- F. GFI CIRCUIT BREAKERS ALLOWED IN LIEU OF GFI RECEPTACLES.
- G. DOOR SECURITY EQUIPMENT SHALL BE PROVIDED BY OWNER. ELECTRICAL CONTRACTORS SHALL PROVIDE BACKBOX, RACEWAY, AND WIRING AT DESIGNATED LOCATIONS AS SHOWN ON PLANS. COORDINATE AND VERIFY ALL REQUIREMENTS WITH OWNER.
- H. PROVIDE (1D) DATA DROP AT "TV" SYMBOL LOCATIONS.
- I. WHERE RACEWAY AND BACKBOXES ARE EXISTING IN BLOCK WALLS, THEY MAY BE REUSED IF THEY ARE IN GOOD CONDITION FOR NEW DEVICES.



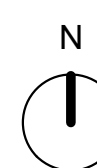
STORAGE 103A - ELECTRICAL

SCALE 0 2 4 6 8

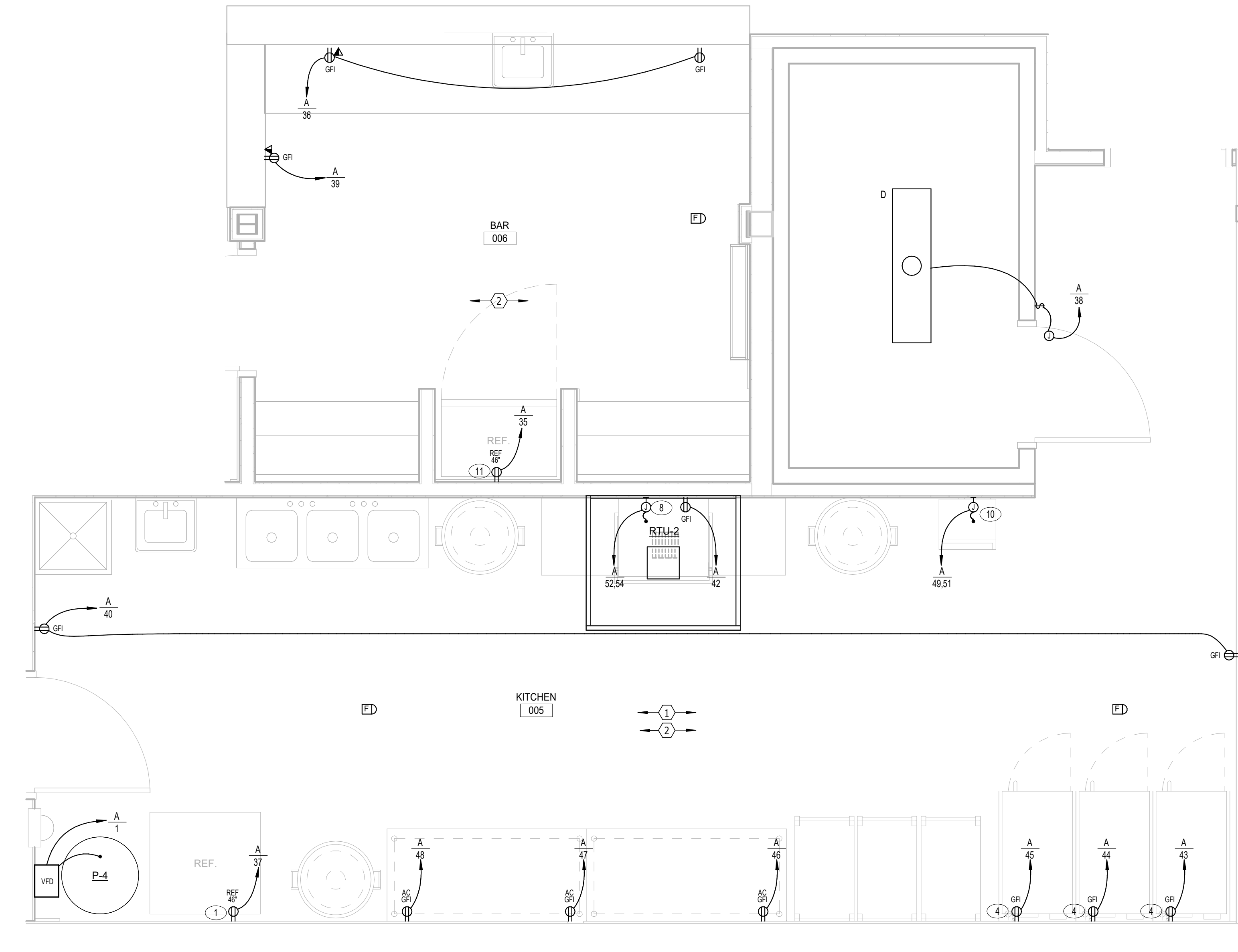


MAIN FLOOR PLAN - POWER & SIGNAL

SCALE 0 2 4 6



KITCHEN EQUIPMENT SCHEDULE							
ITEM	QTY	DESCRIPTION	VOLTS	PHASE	AMPS	NEMA PLUG CONFIGURATION	EQUIPMENT REMARKS
1	1	REACH-IN REFRIGERATOR	115	1	3.8	5-15P	CORD & PLUG CONNECT
4	3	MOBILE HEATED CABINET	120	1	16.7	5-20P	CORD & PLUG CONNECT
8	1	DISHWASHER	208	1	27.7		40A HARDWIRED CONNECTION, GFI
10	1	ICE MAKER	208	1	5.5	-	HARDWIRED CONNECTION, GFI
11	1	REACH-IN DISPLAY REFRIGERATOR	115	1	7.4	5-15P	CORD & PLUG CONNECT



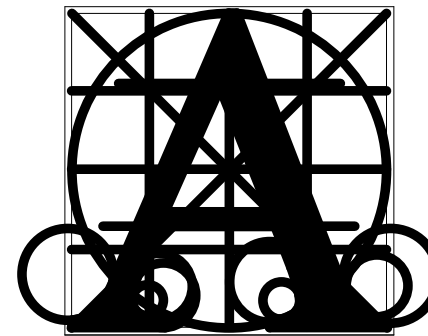
KITCHEN/BAR PLAN - ELECTRICAL
SCALE 0 1 2 3 4

ELECTRICAL NOTES

1. PROVIDE GFI PROTECTION PER NEC 210.8.
2. SEE KITCHEN CONSULTANT/SUPPLIER DOCUMENTS FOR SPECIFIC REQUIREMENTS AND OUTLET LOCATIONS.

GENERAL SHEET NOTES

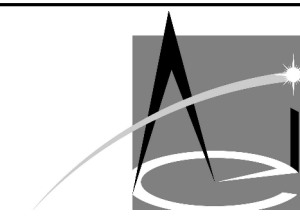
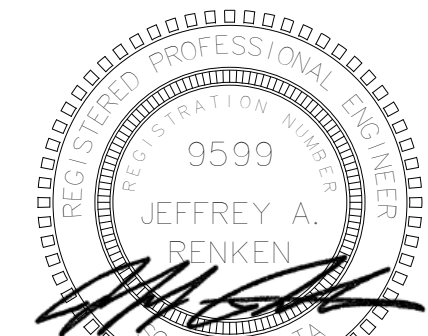
- A. RECEPTACLES IN KITCHEN AREAS SHALL BE GFI PROTECTED IN ACCORDANCE WITH NEC AND LOCAL CODE REQUIREMENTS. PROVIDE GFI RECEPTACLE OR GFI CIRCUIT BREAKERS FOR RECEPTACLES THAT ARE NOT READILY ACCESSIBLE OR AVAILABLE WITH GFI PROTECTION.
- B. ALL ROUGH-INS FOR FOOD SERVICE EQUIPMENT SHALL BE IN ACCORDANCE WITH APPROVED FOOD SERVICE EQUIPMENT ROUGH-IN SHOP DRAWINGS.
- C. ALL CONNECTIONS FOR FOOD SERVICE EQUIPMENT SHALL BE PROVIDED WITH LIQUID-TIGHT FLEXIBLE CONDUIT.
- D. PROVIDE ALL REQUIRED POWER, CONTROL, AND INTERFACE CONNECTIONS FOR EXHAUST HOODS, FANS, AND MAKE-UP AIR UNITS ASSOCIATED WITH KITCHEN EXHAUST SYSTEM IN ACCORDANCE WITH INSTALLATION DRAWINGS.
- E. ELECTRICAL CONTRACTOR TO INTERWIRE FIRE PROTECTION SYSTEM WITH HVAC SYSTEM FOR PROPER SHUTDOWNS.
- F. ELECTRICAL CONTRACTOR TO INTERWIRE FIRE PROTECTINOS SYSTEMS TO POWER SHUT-OFF DEVICE, SUPPLIED BY ELECTRICAL CONTRACTOR, SO AS TO ALL ELECTRICAL COOKING EQUIPMENT BELOW HOOD IS SHUT OFF UPON ACTIVATION OF THE FIRE PROTECTION SYSTEM.
- G. DISPOSERS: WIRE THROUGH SOLENOID VALVE AND CONTROL PANEL TO DISPOSER.
- H. WALK-IN COOLER FREEZERS: ELECTRICAL CONTRACTOR TO INTERCONNECT WALK-IN FREEZER BLOWER COIL TO TIME CLOCK LOCATED AT THE WALK-IN BOX ABOVE CEILING FOR TIMED DEFROST (POWER AND CONTROL WIRING IN CONDUIT). LIGHTS, ALARM, DOOR, WINDOW, PORT, SILL, AND DRAIN LINE HEATER TO JUNCTION BOX ON TOP OF WALK-IN TO FINAL CONNECTION TO JUNCTINO BOXES BY ELECTRICAL CONTRACTOR.
- I. GFI CIRCUIT BREAKERS ALLOWED IN LIEU OF RECEPTACLES.



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Project

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ENLARGED KITCHEN PLAN - ELECTRICAL

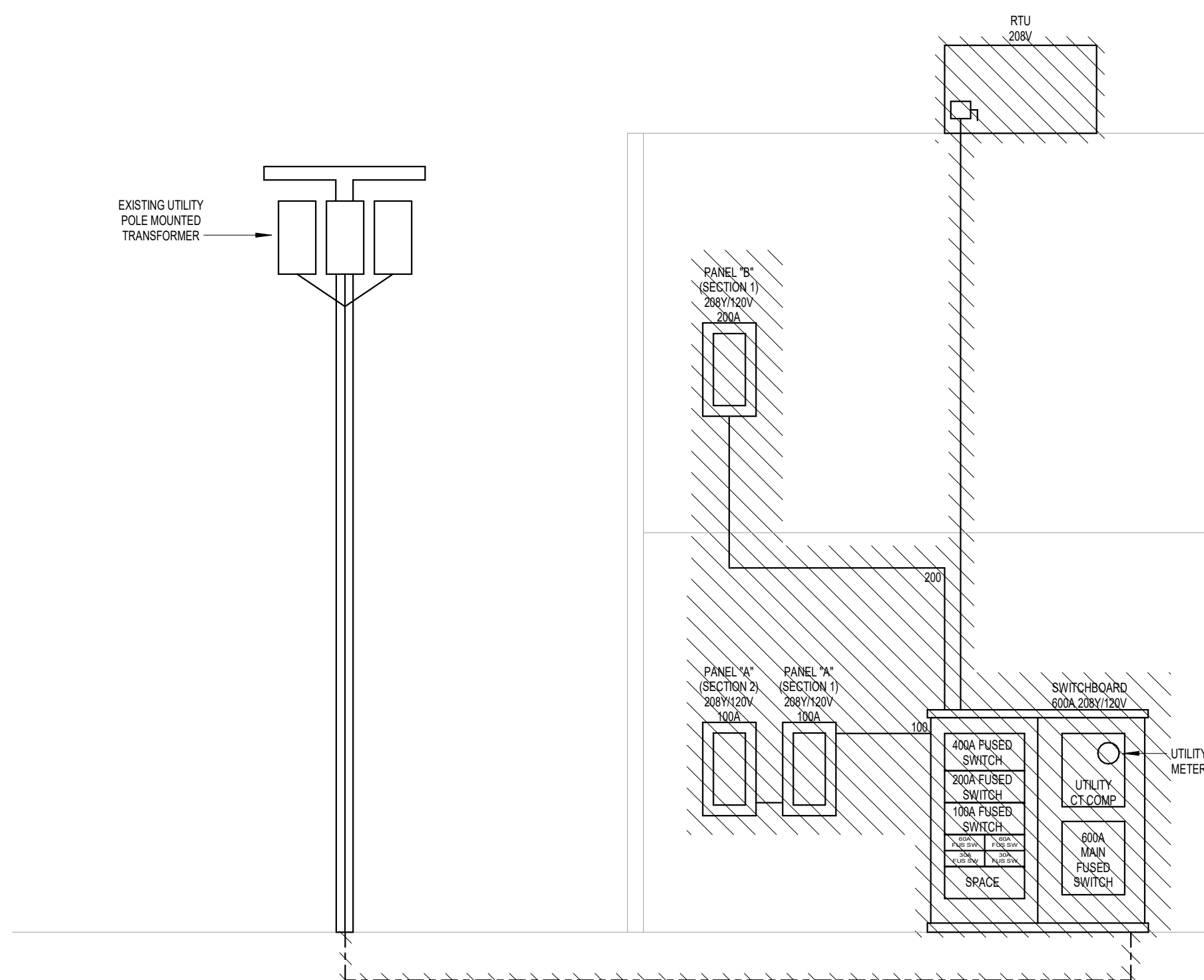
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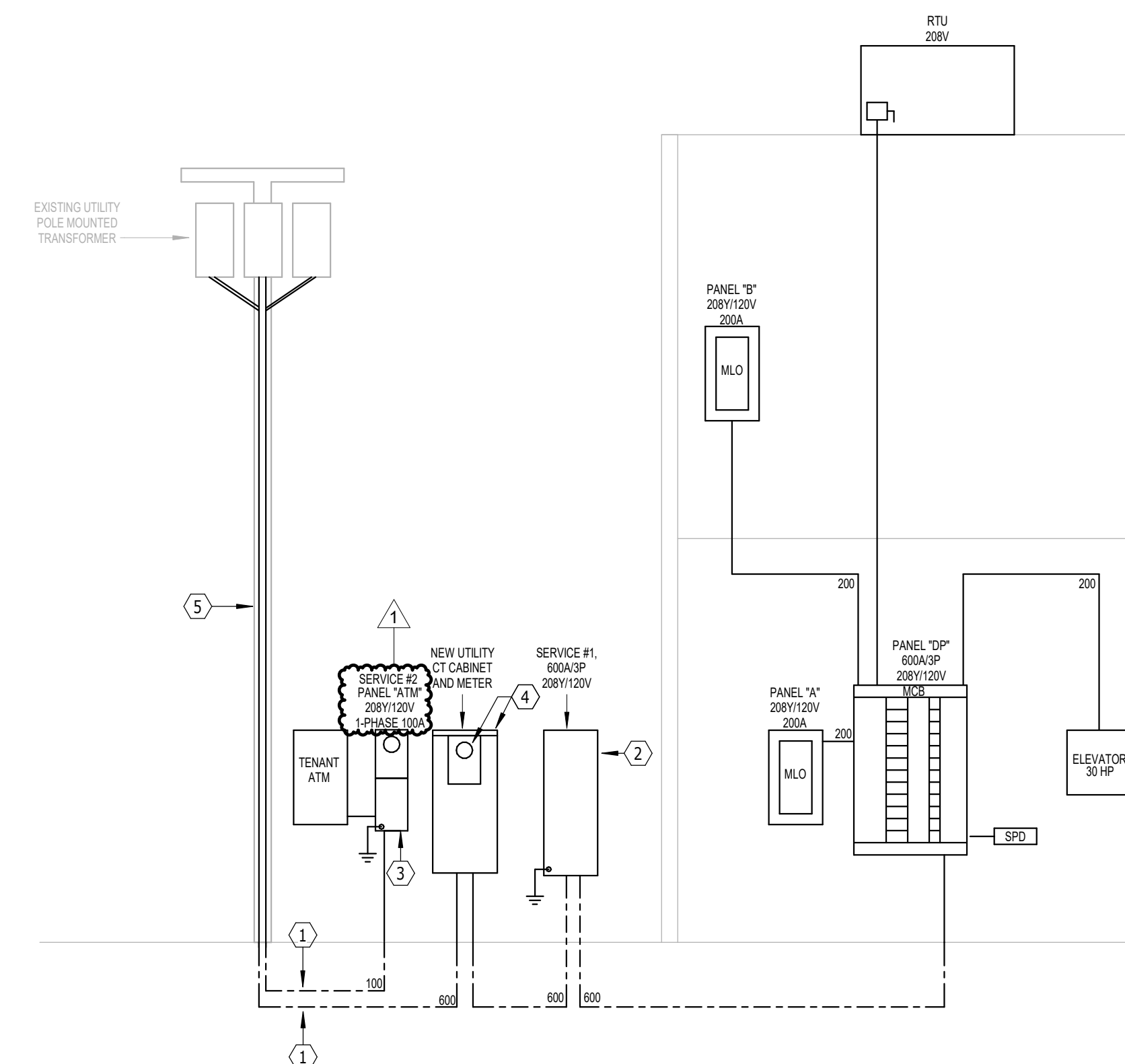
EXISTING POWER RISER DIAGRAM

NO SCALE



NEW POWER RISER DIAGRAM

NO SCALE



PANELBOARD: A

LOCATION: MECH 010				VOLTAGE: 208Y/120 V, 3 ø 4 W.			
MOUNTING: SURFACE NEMA1				A.I.C. RATING: 22,000 AMPS SYMMETRICAL			
MAIN DEVICE: 200 A MLO				SPECIAL:			
BUS AMPS: 200 A							
LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT
MOTORS P-4	20 A	1	1	1.2	0.5		2
MOTORS P-81	15 A	1	3		0.5	0.6	
LITES STAIR 100	20 A	1	5				3
MOTORS P-2	20 A	3	7	1.3	1.3		8
--	--	--	9				10
--	--	--	11		1.3	1.3	
LITES ELEVATOR	20 A	1	13	0.1	0.2		14
LITES MECH 010	20 A	1	15		0.1	1.1	
LITES STOR RM'S	20 A	1	17				18
RCPT MECHOR BOTTOM	20 A	1	19	0.2	0.0		20
RCPT MECH 010	20 A	1	21		0.7	0.5	
RCPT EVENT SPACE 012	20 A	1	23			0.4	24
RCPT EVENT SPACE 012	20 A	1	25	0.0	0.5		26
RCPT EVENT SPACE 012	20 A	1	27		0.2	0.0	
RCPT EVENT SPACE 012	20 A	1	29			0.4	30
RCPT WOMEN RR 002	20 A	1	31	0.4	0.0		32
RCPT HALL 007	20 A	1	33		0.4	0.0	
RCPT BAR REF*	20 A	1	35			0.9	36
RCPT KIT REF*	20 A	1	37	0.5	0.0		38
RCPT BAR 008	20 A	1	39		0.2	0.4	
RCPT MECH 010	20 A	1	41			0.2	42
RCPT KITCHEN	20 A	1	43	2.0	2.0		44
RCPT KITCHEN	20 A	1	45		2.0	0.2	
RCPT KITCHEN	20 A	1	47			0.2	48
RCPT ICE MACKER*	20 A	2	49	0.9	0.6		50
--	--	--	51		0.9	2.8	
RCPT DATA RACK	20 A	1	53		0.0	2.8	
RCPT DATA RACK	20 A	1	55		0.4	0.0	
LITES S.W. EXTERIOR	20 A	1	57			0.5	58
LITES W. SIGNAGE	20 A	1	59		0.6	0.0	
LITES SOUTH SIGNAGE	20 A	1	61		0.6	0.0	
Spare	20 A	1	63			0.0	64
Spare	20 A	1	65			0.0	66
Spare	20 A	1	67	0.0	0.0		68
Spare	20 A	1	69		0.0	0.0	
Spare	20 A	1	71			0.0	72
TOTAL LOAD:				12 kVA	14 kVA	10 kVA	
CONNECTED				101 A	116 A	83 A	
DEMAND				125.00%			
ESTIMATED				1038 VA			
PANEL TOTALS							
Lighting				830 VA	0.00%	1038 VA	
Other				0 VA	0.00%	0 VA	
MOTORS				20044 VA	74.95%	15022 VA	
LITES				9882 VA	100.00%	9882 VA	
HEAT				4219 VA	125.00%	5273 VA	
TOTAL				1140 VA	100.00%	1140 VA	
NOTES:				* - PROVIDE GFI CIRCUIT BREAKER.			

PANELBOARD: B

LOCATION: BREAK 121				VOLTAGE: 208Y/120 V, 3 ø 4 W.			
MOUNTING: RECESSED NEMA1				A.I.C. RATING: 10,000 AMPS SYMMETRICAL			
MAIN DEVICE: 200 A MLO				SPECIAL:			
BUS AMPS: 200 AMPS							
LOAD DESCRIPTION	BKR	POLES	CKT	A	B	C	CKT
HEAT COU-1	15 A	1	1	0.2	0.2		2
MOTORS EF-003	15 A	1	3		0.3	0.3	
MOTORS EF-005	20 A	1	5			0.8	6
LITES HALL 120/ ENTRY 119	20 A	1	7	0.3	0.4		8
RCPT SHERRIF 122	20 A	1	9		0.7	0.0	
LITES EAST OFFICES	20 A	1	11			0.6	12
LITES CHAMBERS	20 A	1	13	0.3	0.7		14
RCPT CONF 126	20 A	1	15		0.8	0.8	
RCPT CONF 126	20 A	1	17			0.7	18
RCPT ENTRY 101	20 A	1	19	0.7	0.4		20
RCPT FLEX 125	20 A	1	21		0.9	0.9	
RCPT OFFICE 123	20 A	1	23			1.1	24
RCPT BREAK 121 MICRO*	20 A	1	25	0.8	0.8		26
RCPT BREAK 121	20 A	1	27		1.7	1.0	
RCPT BREAK 121	20 A	1	29			0.4	30
RCPT SHERRIF MICRO*	20 A	1	31	0.8	0.2		32
RCPT SHERRIF 122	20 A	1	33		0.5	0.7	
RCPT SHERRIF 122	20 A	1	35			0.7	36
RCPT STAIR 120/ENTRY 119	20 A	1	37	0.7	0.5		38
RCPT RR 115	20 A	1	39		0.4	0.2	
RCPT PRINT 113 COPIER	20 A	1	41			0.2	42
RCPT PRINT 113	20 A	1	43	0.5	0.7		44
RCPT OFFICE 104	20 A	1	45		1.1	1.1	
RCPT PRINT 106	20 A	1	47			0.5	48
RCPT OFFICE 109	20 A	1	49	0.9	0.9		50
RCPT OFFICE 111	20 A	1	51		0.9	0.9	
RCPT CHAMBERS 103	20 A	1	53		0.9	0.2	
RCPT CHAMBERS 103	20 A	1	55		0.0	0.4	
RCPT ELEVATOR CAB	20 A	1	57			0.4	58
RCPT DATA RACK	20 A	1	59		0.5	0.5	
RCPT DATA RACK	30 A	2	61		0.5	0.0	
RCPT EXTERIOR LIGHTS	20 A	1	65		0.5	0.0	
RCPT CHAMBERS 103	20 A	1	67	0.7	0.7		68
Spare	20 A	1	69		0.0	0.0	
Spare	20 A	1	71			0.0	72
TOTAL LOAD:				14 kVA	14 kVA	12 kVA	
CONNECTED				116 A	117 A	100 A	
DEMAND				0.00%			
ESTIMATED				0 VA			
PANEL TOTALS							
Lighting				0 VA	0.00%	0 VA	
Other				32660 VA	65.31%	21330 VA	
MOTORS				2184 VA	100.00%	2184 VA	
LITES				2430 VA	125.00%	3037 VA	
HEAT				480 VA	100.00%	480 VA	
TOTAL				36600 VA	100.00%	36600 VA	
NOTES:				* - PROVIDE GFI CIRCUIT BREAKER.			

PANELBOARD: ATM

LOCATION: MECH 010				VOTAGE: 120/208/1PH V, 1 ø 3W.			
MOUNTING: FREE STANDING NEMA 3R				A.I.C. RATING: 22,000 AMPS SYMMETRICAL			
MAIN DEVICE: 100A MCB				SPECIAL: BUILT INTO MILBANK METERING			
BUS AMPS: 100				ENCLOSURE CPB35119A2P85P1			
Circuit Number	Amps	poles	Circuit Description	Circuit Number	Amps	poles	Circuit Description
1	100	2	MAIN	2	-	-	THIS SPACE NOT AVAILABLE
3	5	30	ATM-1	4	-	-	THIS SPACE NOT AVAILABLE
5	5	30	ATM-2	6	-	-	THIS SPACE NOT AVAILABLE
7	9	30	AB-244-1	8	-	-	THIS SPACE NOT AVAILABLE
9	11	20	AB-244-2	10	-	-	THIS SPACE NOT AVAILABLE
11	13	20	AB-244-3	12	-	-	THIS SPACE NOT AVAILABLE
13	15	20	AB-244-4	14	-	-	THIS SPACE NOT AVAILABLE
15	17	20	GENERAL USE 1 (SIEMENS TYPE: GPF)	16	-	-	THIS SPACE NOT AVAILABLE
17	19	20	GENERAL USE 2 (SIEMENS TYPE: GPF)	18	-	-	THIS SPACE NOT AVAILABLE
19	21	20	GENERAL USE 3 (SIEMENS TYPE: GPF)	20	-	-	THIS SPACE NOT AVAILABLE
21	23	2	BUSS MOUNTED SURGE SUPPRESSOR	22	-	-	THIS SPACE NOT AVAILABLE
23	25	2	BUSS MOUNTED SURGE SUPPRESSOR	24	-	-	THIS SPACE NOT AVAILABLE

DISTRIBUTION PANEL: DP

LOCATION: MECH 010				VOLTAGE: 208Y/120V, 3Ø4W.			
MAIN DEVICE: 600 AMCB				AIC RATING: 22,000 AMPS SYMMETRICAL			
BUS AMPS: 600 AMPS				SPECIAL:			
MAIN DEVICE							
CB SIZE/ POLES			SPECIAL		DESCRIPTION/NAME/PLATE		
SECTION NO. 1							
CKT	CB SIZE	Poles	Load	DESCRIPTION/NAME/PLATE			NOTES
1	200 A	3	35358 VA	PANEL A			
2	200 A	3	39339 VA	PANEL B			
3	125 A	3	37827 VA	RTU-1			
4	200 A	3	33144 VA	ELEVATOR			
5	100 A	3	0 VA	PREPARED SPACE			
6	100 A	3	0 VA	PREPARED SPACE			
7							
8							
9							
10							
11							
12	60 A	3	0 VA	SURGE SUPPRESSOR			
LOAD SUMMARY							
				DISTRIBUTION LOAD		CONN. LOAD	
				MDP		142246 VA	
LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS			
Lighting		830 VA	125.000%	1038 VA			
Other		0 VA	0.00%	0 VA			
MOTORS		83036 VA	100.00%	83036 VA			
RCPT		52587 VA	59.51%	31293 VA			
LITES		6632 VA	125.00%	8290 VA		CONN. LOAD:	142246 VA
SPEC		2080 VA	100.00%	2080 VA		EST. DEMAND LOAD:	123178 VA
HEAT		1620 VA	100.00%	1620 VA		CONN. CURRENT:	395 A
						EST. DEMAND...	343 A
NOTES:							

FEEDER SCHEDULE														
MARK (AMPS)	4-WIRE FEEDER				3-WIRE FEEDER				"K" RATED 4-WIRE FEEDER				MARK (AMPS)	
	SETS	PH	GND	C	SETS	PH	GND	C	SETS	PH	N	GND		C
15	1	14	14	0.75	1	14	14	0.75	1	14	12	14	0.75	15
20	1	12	12	0.75	1	12	12	0.75	1	12	10	12	0.75	20
25	1	10	10	0.75	1	10	10	0.75	1	10	8	10	0.75	25
30	1	10	10	0.75	1	10	10	0.75	1	10	8	10	0.75	30
35	1	8	10	0.75	1	8	10	0.75	1	8	6	10	0.75	35
40	1	8	10	0.75	1	8	10	0.75	1	8	4	10	1.00	40
45	1	6	10	1.00	1	6	10	0.75	1	6	4	10	1.00	45
50	1	6	10	1.00	1	6	10	0.75	1	6	3	10	1.00	50
60	1	6	10	1.00	1	6	10	0.75	1	6	3	10	1.00	60
70	1	4	8	1.25	1	4	8	1.00	1	4	1/0	8	1.25	70
80	1	4	8	1.25	1	4	8	1.00	1	4	1/0	8	1.25	80
90	1	3	8	1.25	1	3	8	1.25	1	3	2/0	8	1.25	90
100	1	3	8	1.25	1	3	8	1.25	1	3	2/0	8	1.50	100
110	1	2	6	1.25	1	2	6	1.25	1	2	3/0	6	1.50	110
125	1	1	6	1.50	1	1	6	1.25	1	1	4/0	6	2.00	125
150	1	1/0	6	2.00	1	1/0	6	1.50	1	1/0	300	6	2.00	150
175	1	2/0	6	2.00	1	2/0	6	2.00	1	2/0	350	6	2.00	175
200	1	3/0	6	2.00	1	3/0	6	2.00	1	3/0	500	6	2.50	200
225	1	4/0	4	2.50	1	4/0	4	2.00	1	4/0	2-3/0	4	2.50	225
250	1	250	4	2.50	1	250	4	2.50	1	250	2-4/0	4	2.50	250
300	1	350	4	3.00	1	350	4	2.50	1	350	2-300	4	3.00	300
350	1	500	3	3.00	1	500	3	3.00	1	500	2-400	3	3.50	350
400	2	3/0	3	2.00	2	3/0	3	2.00	2	3/0	500	3	2.50	400
450	2	4/0	2	2.50	2	4/0	2	2.00	2	4/0	2-3/0	2	2.50	450
500	2	250	2	2.50	2	250	2	2.50	2	250	2-4/0	2	2.50	500
600	2	350	1	3.00	2	350	1	2.50	2	350	2-350	1	3.00	600
700	2	500	1/0	3.00	2	500	1/0	3.00	2	500	2-400	1/0	3.50	700
800	3	300	1/0	2.50	3	300	1/0	2.50	3	300	2-4/0	1/0	3.00	800
900	3	350	2/0	3.00	3	350	2/0	2.50	3	350	2-300	2/0	3.00	900
1000	3	400	2/0	3.00	3	400	2/0	2.50	3	400	2-350	2/0	3.00	1000
1200	4	350	3/0	3.00	4	350	3/0	2.50	4	350	2-300	3/0	3.00	1200
1600	5	400	4/0	3.00	5	400	4/0	2.50	5	400	2-350	4/0	3.00	1600
2000	6	400	250	3.00	6	400	250	3.00	6	400	2-350	250	3.50	2000
2500	7	500	350	3.50	7	500	350	3.00	7	500	2-400	350	3.50	2500
3000	8	500	400	3.50	8	500	400	3.00	8	500	2-400	400	4.00	3000
4000	11	500	500	3.50	11	500	500	3.00	11	500	2-400	500	4.00	3000
5000	14	500	700	3.50	14	500	700	3.00	14	700	2-400	700	4.00	3000

MOTOR & APPLIANCE FEEDER SCHEDULE (100 Amps & Less)									
MARK (AMPS)	MOTOR LOAD (HP)		4-WIRE FEEDER			3-WIRE FEEDER			MARK (AMPS)
	480V	208V	PH	GND	C	PH	GND	C	
20	7.5 & LESS	3 & LESS	12	12	0.75	12	12	0.75	20
25	10	--	10	10	0.75	10	10	0.75	25
30	15	--	10	10	0.75	10	10	0.75	30
35	--	5	8	10	0.75	8	10	0.75	35
40	15	--	8	10	0.75	8	10	0.75	40
45	--	--	6	10	1.00	6	10	0.75	45
50	--	7.5	6	10	1.00	6	10	0.75	50
60	20	10	6	10	1.00	6	10	0.75	60
70	25	--	4	8	1.25	4	8	1.00	70
80	30	--	4	8	1.25	4	8	1.00	80
90	40	15	3	8	1.25	3	8	1.25	90
100	50	20	3	8	1.25	3	8	1.25	100

NOTES:

1. FEEDERS SHALL BE 4-WIRE, UNLESS DENOTED WITH:
"3W" WHICH SHALL BE 3-WIRE (3W)
"4G" WHICH SHALL BE 4-WIRE PLUS INSULATED GROUND AND EQUIPMENT GROUND.
"K" WHICH SHALL BE 4-WIRE WITH OVERSIZED NEUTRAL.

2. SERVICE ENTRANCE CONDUCTORS SHALL NOT BE PROVIDED WITH GROUND CONDUCTOR.

3. ALL FEEDERS SHALL HAVE EQUIPMENT GROUND CONDUCTOR.

4. NEUTRAL SHALL BE SAME SIZE AS PHASE CONDUCTOR, UNLESS OTHERWISE NOTED.

5. CONDUCTOR SIZES FOR FEEDERS OVER 40A ARE BASED ON TERMINATIONS TO EQUIPMENT LISTED FOR 75°C, INCREASE FEEDER SIZES AS REQUIRED FOR TERMINATIONS TO EQUIPMENT NOT LISTED FOR 75°C.

6. RACEWAY AND CONDUCTOR SIZING IS BASED ON THE USE OF THINWALL MIN COPPER CONDUCTORS AND EMT CONDUIT. MODIFY RACEWAY AND CONDUCTOR SIZES AS REQUIRED FOR THE USE OF OTHER RACEWAY AND CONDUCTOR TYPES. SEE SPECIFICATIONS FOR ALLOWABLE CONDUCTOR MATERIAL, INSULATION, AND RACEWAY TYPES.

7. NOT ALL FEEDER SIZES SHOWN IN THIS SCHEDULE ARE USED IN THIS PROJECT.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE									
ACEI PROJECT #: 123016									
	DESCRIPTION	KW	HP	FLA	MCA	MOCBP	VOLTS	PH	NOTES
	RTU-1: ROOFTOP UNIT	-	-	98.0	105	125A/3P	208	3	1,2,12
	CUH-1: CABINET UNIT HEATER	-	1/10	-	-	-	120	1	3
	CUH-2: CABINET UNIT HEATER	-	1/10	-	-	-	120	1	3
	UH-1: CABINET UNIT HEATER	-	1/20	-	-	-	120	1	3
	B-1: BOILER	-	-	5.5	4.5	20A/1P	120	1	4,5
	P-1: HEATING SECONDARY	-	2/5	-	-	20A/1P	120	1	6
	P-2: HEATING SECONDARY	-	2/5	-	-	20A/1P	120	1	6
	P-3: RHW	-	1/12	-	-	20A/1P	120	1	7
	P-4: ELEVATOR SUMP	-	1/2	8.0	10	20A/1P	120	1	11
	P-B1: BOILER CIRC	-	Frac	-	-	20A/1P	120	1	8
	WTHR-1: WATER HEATER	-	-	5.0	6	20A/1P	120	1	9
	EF-1: EXHAUST FAN	-	1/4	2.9	4	15A/1P	120	1	3
	EF-003: EXHAUST FAN	-	1/4	2.9	4	15A/1P	120	1	3
	EF-005: EXHAUST FAN	-	1/2	6.4	8	15A/1P	120	1	10

NOTES:

1. PROVIDE WEATHERPROOF FUSIBLE DISCONNECT SWITCH AND CONNECTIONS TO UNIT. CONTROL BY MC.

2. PROVIDE DUCT SMOKE DETECTOR IN RETURN DUCTWORK, COORDINATE PHYSICAL LOCATIONS OF DEVICES WITH MECHANICAL CONTRACTOR FOR ACCESSIBILITY.

3. PROVIDE SINGLE POINT POWER CONNECTION. INTEGRAL DISCONNECTING MEANS. CONTROL BY MC.

4. PROVIDE MOTOR RATED SWITCH.

5. PROVIDE EMERGENCY POWER OFF (EPO) DEVICE WITH CLEAR COVER OUTSIDE OF EACH EXIT FROM BOILER ROOM AT 72" AFF. PROVIDE LABELING OF DEVICE. COORDINATE CONNECTIONS WITH MECHANICAL CONTRACTOR.

6. PROVIDE MOTOR RATED SWITCH, CONTROL BY MECH.

7. PROVIDE CONNECTION TO MOTOR STARTER/DISCONNECT AND UNIT. VFDDISCONNECT AND CONTROL BY MC.

8. PROVIDE CONNECTIONS TO BOILER CONTROL PANEL. PROVIDE CONNECTIONS FROM CONTROL PANEL TO PUMP(S) IN ACCORDANCE WITH THE MANUFACTURER INSTALLATION INSTRUCTIONS.

9. PROVIDE RECEPTACLE FOR CORD AND PLUG CONNECTION

10. PROVIDE SWITCH WITH PILOT LIGHT FOR CONTROL.

11. PROVIDE POWER CONNECTION TO LOCAL ALARM PANEL. PANEL BY M C

12. PROVIDE CURRENT LIMITING FUSES FOR FAULT CURRENT REDUCTION CONSIDERATIONS.

LIGHTING FIXTURE SCHEDULE										Project No: ACEI 123016	
TYPE	MFR.	NUMBER	LAMPS	VOLTS	WATTS	DESCRIPTION	APPROVED MFRS	NOTES			
A	METALLUX	24C2-LD5-40-UNV-L830-CD1-U	LED30K	120	29	LED, 2'X4' RECESSED ARCHITECTURAL, ROUND ACRYLIC DIFFUSER, APPROXIMATELY 4000 LUMENS, 0-10V, 1% DIMMING.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
A2	METALLUX	22C2-LD5-24-UNV-L830-CD1-U	LED30K	120	20	LED, 2'X2' RECESSED ARCHITECTURAL, ROUND ACRYLIC DIFFUSER, APPROXIMATELY 2400 LUMENS, 0-10V, 1% DIMMING.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
A2E	METALLUX	22C2-LD5-24-UNV-L830-CD1-U-EL14W	LED30K	120	20	SAME AS TYPE A2 EXCEPT INTEGRAL BATTERY BACK-UP FOR EGRESS PATH LIGHTING REQUIREMENTS.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
A3	METALLUX	14C2-LD5-30-UNV-L830-CD1-U	LED30K	120	28	LED, 1'X4' RECESSED ARCHITECTURAL, ROUND ACRYLIC DIFFUSER, APPROXIMATELY 3600 LUMENS, 0-10V, 1% DIMMING.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
A3E	METALLUX	14C2-LD5-30-UNV-L830-CD1-U-EL14W	LED30K	120	28	SAME AS TYPE A3 EXCEPT INTEGRAL BATTERY BACK-UP FOR EGRESS PATH LIGHTING REQUIREMENTS.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
D	METALLUX	48NX-57BL-4N-UNV-L830-CD1-PAF	LED30K	120	40	4' LENISED LED STRIP LIGHT, FORMED CRS CHANNEL WITH DECORATIVE END CAPS, APPROXIMATELY 5600 LUMENS, FROSTED ACRYLIC LENS.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
DE	METALLUX	48NX-57BL-4N-UNV-L830-CD1-PAF	LED30K	120	40	SAME AS TYPE D EXCEPT INTEGRAL BATTERY BACK-UP FOR EGRESS PATH LIGHTING REQUIREMENTS.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
E1	SURE-LITES	TPX21R	INCLUDED	120	-	LED EXT LIGHT, SINGLE STENCIL FACE, RED LETTERS, BLACK HOUSING WITH BRUSHED ALUMINUM FACE, SELF-TESTING/SELF-DIAGNOSTIC ELECTRONICS, BATTERY, DIRECTIONAL ARROWS AND MOUNTING AS INDICATED.	DUAL-LITE EMERG-LITE WILLIAMS LITHONIA				
E2	SURE-LITES	TPX22R	INCLUDED	120	-	SAME AS TYPE "E1" EXCEPT DOUBLE-FACE.	DUAL-LITE EMERG-LITE WILLIAMS LITHONIA				
F	VISUAL COMFORT & COMPANY	705FMVYTR18NB-LED30	LED30K	120	21	WYATT LARGE FLUSH MOUNT FIXTURE, 16 INCH DIMMABLE, APPROXIMATELY 800 LUMENS, COORDINATE FINISH COLOR WITH ARCHITECT					
G	METALLUX	4V13-LD5-S-G-UNV-L850-CD1-U	LED30K	120	44	4" VAPORITE LED WALL MOUNT LED, COMPACT DURABLE FIBERGLASS HOUSING, 5000 LUMENS	PRESICOUTE LIGHTOLIER WILLIAMS LITHONIA				
H	NEO-RAY	S124DP-C-1020DR30-C4X0-4F0-1-U-DD-A-CRAL	LED30K	120	36	DEFINE 4 DIRECT LINEAR PENDANT, 4FT LENGTH, 0-10V, APPROXIMATELY 1020 LUMENS/FT, 4" AIRCRAFT CABLE MOUNT, COORDINATE FINISH COLOR WITH ARCHITECT.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
HE	NEO-RAY	S124DP-C-1020DR30-C4X0-4F0-B2-U-DD-A-CRAL	LED30K	120	36	SAME AS TYPE H EXCEPT INTEGRAL BATTERY BACK-UP FOR EGRESS PATH LIGHTING REQUIREMENTS.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
P1	MEMO LIGHTING	CHANDELIER PENDANT	LED30K	120	85	ELLISSE PENDANT DOUBLE. COORDINATE FINISH COLOR WITH ARCHITECT					
P2	VISUAL COMFORT & COMPANY	6034003-B4B	LED30K	120	48	THREE LIGHT PENDANT FROM ALTURAS COLLECTION. PROVIDE AND INSTALL OPTIONAL LED REPLACEMENT LAMPS FOR A19 BASE.					
K	HUDSON VALLEY LIGHTING GROUP	B021-A0B	LED30K	120	30	STOWE WALL SCONCE, PROVIDE AND INSTALL OPTIONAL LED REPLACEMENT LAMPS FOR E26 BASE.					
M	NEO-RAY	S124DR-S-795D-830-FES-4F0-1-U-DD-F-C	LED30K	120	6.8W/FT	DEFINE 4 LED RECESSED, APPROXIMATELY 800 LUMENS/FOOT, 0-10V DIMMING, 1% SPECIALTY CEILING APPLICATION, 4FT LENGTH, COORDINATE FINISH COLOR WITH ARCHITECT.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
ME	NEO-RAY	S124DR-S-795D-830-FES-4F0-1-B2-U-DD-F-C	LED30K	120	6.8W/FT	SAME AS TYPE M EXCEPT INTEGRAL BATTERY BACK-UP FOR EGRESS PATH LIGHTING REQUIREMENTS.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
N	NEO-RAY	S124DW-C-795D-470U-830-RF0-1-U-DD-F-1-RAL	LED30K	120	77	DEFINE 4 WALL MOUNT DIRECT/INDIRECT, APPROXIMATELY 800 LUMENS/DIRECT AND 500 LUMENS INDIRECT, 4FT, 0-10V DIMMING, 1% COORDINATE FINISH COLOR WITH ARCHITECT.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
NE	NEO-RAY	S124DW-C-795D-470U-830-RF0-B2-1-U-DD-F-1-RAL	LED30K	120	77	SAME AS TYPE N EXCEPT INTEGRAL BATTERY BACK-UP FOR EGRESS PATH LIGHTING REQUIREMENTS.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
NA	NEO-RAY	S124DW-C-795D-470U-830-4F0-1-U-DD-F-1-RAL	LED30K	120	77	SAME AS TYPE N EXCEPT 4FT LENGTH.	COLUMBIA DAYBRITE WILLIAMS LITHONIA				
O	ACCLAIM LIGHTING	FLEX3-S(RGBW)	LED30K	120	5.4FT	LED TAPE LIGHT 228 LUMENS PER FOOT, 0-10V DIMMING, SPECIFY REQUIRED POWER FEED LOCATION, PROVIDE ALL ASSOCIATED ACCESSORIES INCLUDING MOUNTING COMPONENTS AND POWER SUPPLIES, PROVIDE 45 DEGREE ALUM. CHANNEL WITH DIFFUSED LINSE.	PRESICOUTE LIGHTOLIER WILLIAMS LITHONIA				
BB	CURRENT	RNR-X0-6-7-40B-AS-DL-UNV-DF-EMF1-CC	LED40K	120	13W/FT	4-INCH WIDE RECESSED DIRECT LINEAR, 750 LUMEN DOWN, SEE LENGTHS ON DRAWINGS, COORDINATE COLOR FINISH WITH ARCHITECT.	PRESICOUTE LIGHTOLIER WILLIAMS LITHONIA				
BBE	CURRENT	RNR-6-6-7-40B-AS-DL-UNV-DF-EMF1-EM-CC	LED40K	120	13W/FT	SAME AS TYPE BB EXCEPT INTEGRAL BATTERY BACK-UP FOR EGRESS PATH LIGHTING REQUIREMENTS IN 4 FT LENGTH.	PRESICOUTE LIGHTOLIER WILLIAMS LITHONIA				
DD	LUMARK	XTORBB-W-6K	LED40K	120	58	LED WALL PACK, CAST ALUMINUM HOUSING, APPROXIMATELY 6000 LUMENS, COORDINATE COLOR FINISH WITH ARCHITECT.	DUAL-LITE EMERG-LITE WILLIAMS LITHONIA				
DDE	LUMARK	XTORBB-W-6K-CP	LED40K	120	58	SAME AS TYPE DD EXCEPT INTEGRAL BATTERY BACK-UP FOR EGRESS PATH LIGHTING REQUIREMENTS.	DUAL-LITE EMERG-LITE WILLIAMS LITHONIA				
AA3	LUMARK	PRV-XL-PA3B-74D-U-T3-BZ WITH SSS POLE	LED40K	120	234	DUAL-HEAD PARKING LOT POLE LIGHT, INCLUDE 2FT POLE ON 3FT CONCRETE BASE, VIBRATION DAMPENERS, AND 30,000 LUMEN, DARK BRONZE FINISH, TYPE 5, O.D.S.T.	PRESICOUTE LIGHTOLIER WILLIAMS LITHONIA				

Planholders List - Dell Rapids City and Community Hall
Dell Rapids, South Dakota
Architecture Incorporated Project Number: 2999
BID DATE: 2:00 p.m. CT on Thursday, June 15, 2023
Construction Cost Estimate: \$2,500,000.00

CATEGORY	NAME	ADDRESS1	ADDRESS2	CITY	STATE	ZIP	PHONE	FAX	E-MAIL
<u>A/E Consultant</u>									
	Apex Structural Design	515 South Cliff Avenue		Sioux Falls	SD	57104	605-335-4071	605-332-2156	Julian@apexsf.net
	Architecture Incorporated	415 South Main Avenue	PO Box 2140	Sioux Falls	SD	57101-2	605-339-1711	605-339-2331	mail@architectureinc.com
	Associated Consulting Engineering Inc	340 South Phillips Avenue		Sioux Falls	SD	57104	605-335-3720	605-335-6220	TdeWit@aceinet.com
	DGR Engineering	1300 South Highline Avenue		Sioux Falls	SD	57110	605-339-4157		lance.mayer@dgr.com
<u>Exchange</u>									
	Aberdeen Builders Exchange	302 North Jackson Street		Aberdeen	SD	57401	605-225-4733		dakotabuild@midconetwork.com
	Bismarck Builders Exchange	215 Airport Road	Ste 202	Bismarck	ND	58504	701-258-4215	701-258-1391	info@bbxnd.com
	CMD Group	30 Technology Parkway South	Suite 100	Norcross	GA	30092			docprocessing@cmdgroup.com
	Construction Industry Center	2771 Plant Street	PO Box 1227	Rapid City	SD	57702	605-343-5252	605-343-4591	constructionindustrycenter@gmail.com
	Fargo-Moorhead Builders	1010 Page Drive		Fargo	ND	58106	701-237-6772	701-232-1653	info@fmbx.org

CATEGORY	NAME	ADDRESS1	ADDRESS2	CITY	STATE	ZIP	PHONE	FAX	E-MAIL
	Lincoln Builders Bureau	5910 South 58th Street	Suite C	Lincoln	NE	68516	402-421-8332	402-421-8334	info@buildersbureau.com
	Master Builders of Iowa	221 Park Street		Des Moines	IA	50309	515-288-8904		cuhelp@mbi.build
	Minnesota Builders Exchange	1123 Glenwood Avenue		Minneapolis	MN	55405	612-381-2620	612-381-2621	addenda@mbex.org
	Omaha Plan Room	4159 South 94th Street		Omaha	NE	68127	402-991-6906	408-884-7055	lisa.shockey@omahaplanroom.com
	Plains Builders Exchange	220 North Kiwanis Avenue		Sioux Falls	SD	57104	605-334-8886	605-334-0112	info@plainsbuilders.com
	Sioux City Construction League	3900 Stadium Drive		Sioux City	IA	51102	712-255-9730	712-255-3915	office@scaplanroom.com
	Sioux Falls Builders Exchange	1418 C Avenue		Sioux Falls	SD	57104	605-357-8687	605-357-8655	info@sfbx.com
<u>General Contractor</u>									
	Crestone Builders, Inc	1425 9th Avenue SW		Watertown	SD	57201	605-878-3555	605-878-3556	joe@crestonebuilders.com
	Empire Building Construction	1709 North Industrial Avenue		Sioux Falls	SD	57104	605-759-1501	605-335-7212	jon@empireconst.com
	Gil Haugan Construction	200 East 60th Street North		Sioux Falls	SD	57104	605-336-6082	605-336-0051	ALundquist@gilhaugan.com
	Journey Construction	4500 West 58th Street		Sioux Falls	SD	57108	605-221-0156		mlukonen@journeyconstruction.com
	Lloyd Companies	101 South Reid Street	Suite 201	Sioux Falls	SD	57103	605-221-8286	605-323-2824	Nathan.Reichert@lloydcompanies.com
	Peska Construction (PR)	2700 North 4th Avenue		Sioux Falls	SD	57104	605-334-0173	605-334-0102	b.goeken@peskaconstruction.com
	Reynolds Construction Management Services	4402 South Technology Drive		Sioux Falls	SD	57106	605-274-8900	605-274-8901	todd@rcmbuild.com

CATEGORY	NAME	ADDRESS1	ADDRESS2	CITY	STATE	ZIP	PHONE	FAX	E-MAIL
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Other

Dale Stansbury Drywall, Co	807 North Milwaukee	PO Box 343	Canton	SD	57013	605-987-4421	605-987-4421	dalestansbury@ms n.com
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Owner

Dell Rapids City Hall	302 East 4th Street		Dell Rapids	SD	57022	605-428-3595	605-428-5965	
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