DATE ISSUED	November 3, 2026	ADDENDUM #	1
ENGINEER	Engineering Technologies, Inc. 1101 North 13th Street Omaha, NE 68102	PROJECT	IWCC Fremont Hall – Electrical Service Replacement
		ETI PROJECT #	2025-049

The Architect issues this Addendum to all known bidders before receipt of proposals. Bidder shall acknowledge the receipt of this addendum on their proposal sheet and all information contained herein shall become a part of the contract documents.

ADDENDUM:

GENERAL ITEMS – ELECTRICAL

A. Addendum Sign-In sheet.

PRIOR APPROVAL – ELECTRICAL

1. The following manufacturers have received prior approval for bidding purposes subject to shop drawing review:
   A. 263213 Generator — Caterpillar
   B. 263600 Automatic Transfer Switches — Caterpillar

DRAWINGS – ELECTRICAL

1. Sheet EG2.0 – Electrical Schedules
   A. Revised schedules for panels L, L4B, and H.
   B. Swbd MSBF: Revised circuit no. 5 to be spare breaker, revised description for circuit no. 7.
   C. Panel SF1: Revised breaker description for circuit no. 8. Revised breaker size to be 150A for circuit no. 10.
   D. Panel L4: Revised KAIC rating, main breaker type, and mounting.

2. Sheet EG2.1 – Electrical Details
   A. Detail F10: Revised title and Ufer note.

3. Sheet EG3.0 – Electrical Demolition Riser Diagram
   A. Revised sheet notes 7, 9, and 10.
   B. Added sheet notes 17 through 21.
   C. Ashley Hall A0267A, A0267C, A159, A111, and Clark Hall C147: Added room separations, equipment, and associated sheet notes.
   D. Hoover Hall 102: Added sheet note 13.
   E. Clark Hall Penthouse: Added sheet note 17 to switchboard PCB.
   F. Ashley Hall A129: Added sheet note 20 to panels L3A and L3B, and sheet note 21 to transformer T3.
   G. Fremont Hall F127: Added KVA rating for transformer T6, and sheet note 6 for transformer T4.
   H. Fremont Hall F132: Added sheet note 20 to panels H and L, and sheet note 21 to transformer TR1.
   I. Fremont Hall Exterior: Removed meter from utility transformer.
   J. Stuart Hall Elec 129: Revised location on riser.
   K. Clark Hall C049: Added sheet note 18 to switchboard PCA.
   L. Fremont Hall F034: Added feeder to be demolished from switchboard to ATS.

4. Sheet EG3.1 – New Electrical Riser Diagram
   A. Ashley Hall A111: Updated transformer naming to match schedules and plans. Clarified primary feeder is only replaced as part of Bid Alternate.
   B. Clark C147: Added existing transformer and panel to riser diagram. Noted existing feeder size to be extended.
   C. Fremont F132: Added feeder sizes for Bid Alternate #3 work.
   D. Panels HLA and P4N: Removed sheet note 9.

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OMAHA: 1101 N.13th Street, Omaha, NE 68102 P 402.330.2772

E. Stuart Hall Elec S1195: Revised location on New Electrical Riser Diagram.
F. Ashley Hall 159: Added sheet notes 36 and 37 to primary and secondary of transformer T3.
G. Fremont Hall F127 and F132: Revised conductor and conduit sizing.
H. Ashley Hall A0267A and A0267C: Revised room label and added room separation.
I. ATS-OS feeder: Revised location of conductor and conduit callout from MSBF.
J. Fremont F034: Re-labeled transformers to include new naming.
K. New Electrical Riser Diagram: Removed sheet notes 4 and 15, revised sheet notes 2 and 18, and added sheet notes 35 through 39.
L. Bid Alternate #1 riser diagram: Revised connections to main grounding bar MGB.
M. Bid Alternate #1 riser diagram: Revised notes 3, 5, and 11.
N. Bid Alternate #2 riser diagram: Revised sheet notes 3 and 4.

5. Sheet ES1.0 – Electrical Site Plan
   A. Added approximate location of Elec 125A and Panel HLA in Lewis Hall.
   B. Labeled utility transformers TD-4 outside of Fremont Hall and PE-104 southeast of Lewis Hall.
   C. Relabeled panel P4 to include new naming of P4N.

6. Sheet E1.0B – Lower Level Electrical Plan – Fremont Hall
   A. Elec. F034: Revised view extents and electrical equipment visibility.
   B. Added view “Partial Lower Level Electrical Demolition Plan – Fremont Hall”.

7. Sheet E1.1A – First Level Electrical Plan – Clark Hall
   A. Elec. C157: Added existing panels.
   B. Removed sheet note 1.

8. Sheet E1.1B – First Level Electrical Plan – Fremont Hall
   A. Added room tag “Tele 131B” and clarified existing panel labels in room.

END OF ADDENDUM

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OMAHA: 1111 N.13th Street, Suite 216, Omaha, NE 68102 P 402.330.2772

Pre-Bid Conference Attendance
IWCC Fremont Hall Electrical Service Replacement
October 27, 2026 at 2:00 p.m.
Location: Fremont Hall, 2700 College Road, Council Bluffs, IA 51503
ETI Project Number: 2025-049

IOWA WESTERN

COMPANY	NAME	PHONE	CONTACT EMAIL
ABC Elec	Shawn Lee	402 306 1715	shawn@abcelectriccb.com
Bluffs Elec	Chase Evans	402-657-3019	contact@bluffsservices.com
Auen Elec.	Nate Hensley	712-310-1491	nhensley@auenelectric.com
Steve Suden	Tru Volt Electric	712 370 0931	Steve.Suden@Truvoltomaha.com
Nick Naughton	Powertech	531-666-8386	nnaughton@powertechteam.com
Downs Electric	Danny Downs	402-733-3080	danny@downselectric.net

SWITCHBOARD SCHEDULE

SWBD MSBF — VOLTAGE 277 / 480V — PHASE 3Ø — 35 KAIC RMS — 4 WIRE, SOLID NEUTRAL — 1,200A MAIN BREAKER — FREMONT HALL
EST. MAX DEMAND 0 KVA

CKT. NO.	SERVES	LOAD (KVA)	BREAKER SIZE	BREAKER POLE	BREAKER TYPE	REMARKS
1	PANEL SF1 (ASHLEY)	-	600	3	TM	-
2	PANEL HLA (LEWIS)		400	3	TM	NOTE 1
3	PANEL P4N (LEWIS)		400	3	TM	NOTE 1
4	PANEL H4		200	3	TM	-
5	SPARE		110	3	TM	-
6	LOOFT MSB	-	400	3	TM	NOTE 3
7	DODGE MDP (P3)	-	600	3	TM	-
8	PANEL PCA (CLARK)	-	600	3	TM	-
9	PANEL H2	-	200	3	TM	-
10	PANEL P1 (HOOVER)	-	225	3	TM	-
11	ICN ROOM AC	-	100	3	TM	NOTE 4
12	AIR COMPRESSOR	-	30	3	TM	NOTE 4
13	CP	-	30	3	TM	NOTE 4
14	PANEL H	-	100	3	TM	-
15	XFMR T2 LP5	-	110	3	TM	-
16	ICN NETWORK ROOM	-	200	3	TM	NOTE 4
17	XFMR T1 PANEL LPD	-	225	3	TM	NOTE 2
18	-				-	-

GENERAL NOTES:
A. BREAKER TYPE: TM=THERMAL MAGNETIC; LSIG=LONG, SHORT; INSTANTANEOUS, GROUND; ST=SHUNT; AX=AUXILIARY CONTACTS
B. PROVIDE MAIN BREAKER WITH ARC ENERGY REDUCTION AND GFP.

NOTES:
1. DELETE BREAKER AS PART OF BID ALTERNATE #1.
2. PROVIDE WITH LOCK-OFF DEVICE FOR REMOTE TRANSFORMER DISCONNECT.
3. DELETE BREAKER AS PART OF BID ALTERNATE #2.
4. EXTEND EXISTING FEEDER TO NEW SWITCHBOARD. NOT SHOWN ON RISER.

DISTRIBUTION PANEL SCHEDULE

PANEL LOOFT MDP — VOLTAGE 120 / 208V — PHASE 3Ø — 35 KAIC RMS — 4 WIRE, SOLID NEUTRAL — 400A MAIN BREAKER
EST. MAX DEMAND 0 KVA

CKT. NO.	SERVES	LOAD (KVA)	BREAKER SIZE	BREAKER POLE	BREAKER TYPE	REMARKS
1	SPD	-	60	3	-	-
2	ELEVATOR	30	3	TM	-	PROVIDE WITH DRY CONTACTS
3	PUMP P-6	30	3	TM	-	-
4	PUMP P-5	30	3	TM	-	-
5	AHU-1 RETURN	30	3	TM	-	-
6	AHU-1 SUPPLY	30	3	TM	-	-
7	PUMP CWP	30	3	TM	-	-
8	XFMR	200	3	TM	-	-
9	PANEL HEB	60	3	TM	-	-
10	PANEL HEA	60	3	TM	-	-
11	WATER HEATER	30	3	TM	-	-
12	PANEL HED	200	3	TM	-	-
13	CW PUMP P-1	30	3	TM	-	-
14	HW PUMP P-2	30	3	TM	-	-
15	SPACE PROV	60	3	TM	-	-
16	SPACE PROV	60	3	TM	-	-
17	SPACE PROV	100	3	TM	-	-
18	SPACE PROV	100	3	TM	-	-

GENERAL NOTES:
A. BREAKER TYPE: TM=THERMAL MAGNETIC; LSIG=LONG, SHORT; INSTANTANEOUS, GROUND; ST=SHUNT; AX=AUXILIARY CONTACTS
B. IT IS ACCEPABLE TO USE A COMBINATION DISTRIBUTION/BRANCH CIRCUIT PANELBOARD.
C. BREAKER SIZES INDICATED ARE FRAME SIZES ONLY. FIELD VERIFY EXISTING CIRCUITS AND PROVIDE BREAKER TRIP SETTINGS TO MATCH EXISTING PROTECTION REQUIREMENTS.

NOTES:
1. PROVIDE EXTERNAL120KA PER PHASE SURGE PROTECTION DEVICE WITH SURGE COUNTER.

PANEL SCHEDULE

PANEL L4 SECTION 1 — VOLTAGE 120 / 208V — PHASE 3Ø — 4W, SOLID NEUTRAL, FEED THROUGH LUGS — 10 KAIC RMS — 225 A MAIN BREAKER — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	-	1	20	-	1	A	2	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	3	B	4	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	5	C	6	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	7	A	8	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	9	B	10	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	11	C	12	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	13	A	14	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	15	B	16	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	17	C	18	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	19	A	20	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	21	B	22	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	23	C	24	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	25	A	26	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	27	B	28	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	29	C	30	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	31	A	32	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	33	B	34	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	35	C	36	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	37	A	38	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	39	B	40	-	20	1	-	-	EXISTING LOAD
SPARE	-	-	1	20	-	41	C	42	-	20	1	-	-	SPARE

PANEL L4 SECTION 2 — VOLTAGE 120 / 208V — PHASE 3Ø — 4 WIRE SOLID NEUTRAL — 10 KAIC RMS — 225 A MAIN LUGS — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	-	1	20	-	43	A	44	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	45	B	46	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	47	C	48	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	49	A	50	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	51	B	52	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	53	C	54	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	55	A	56	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	57	B	58	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	59	C	60	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	61	A	62	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	63	B	64	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	65	C	66	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	67	A	68	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	69	B	70	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	71	C	72	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	73	A	74	-	100	3	P	750	PANEL L4B
EXISTING LOAD	-	-	1	20	-	75	B	76	-	-	-	P	750	-
EXISTING LOAD	-	-	2	30	-	77	C	78	-	-	-	P	750	-
-	-	-	-	-	-	79	A	80	-	100	3	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	2	100	-	81	B	82	-	-	-	-	-	-
-	-	-	1	20	-	83	C	84	-	-	-	-	-	-

LOAD INFORMATION — A = AFCI; G = GFCI; A/G = AFCI/GFCI; ST = SHUNT TRIP; LN = LOCK-ON; LF = LOCK-OFF

	KVA	AMPS
TOTAL CONNECTED LOAD	2	6
EST. MAX DEMAND	2	6

NOTES:
1. PROVIDE PANEL WITH FEED THRU LUGS.

PANEL SCHEDULE

PANEL L4B — VOLTAGE 120 / 208V — PHASE 3Ø — 4 WIRE, SOLID NEUTRAL — 10 KAIC RMS — 100 A MAIN LUGS — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	-	1	20	-	1	A	2	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	3	B	4	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	5	C	6	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	7	A	8	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	9	B	10	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	11	C	12	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	13	A	14	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	15	B	16	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	17	C	18	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	19	A	20	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	21	B	22	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	23	C	24	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	25	A	26	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	27	B	28	-	20	1	-	-	EXISITNG LOAD
EXISTING LOAD	-	-	1	20	-	29	C	30	-	20	1	-	-	EXISITNG LOAD
SPARE	1,000	S	1	20	-	31	A	32	-	20	1	-	-	SPACE PROV
SPARE	1,000	S	1	20	-	33	B	34	-	20	1	-	-	SPACE PROV
SPARE	1,000	S	1	20	-	35	C	36	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	37	A	38	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	39	B	40	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	41	C	42	-	20	1	-	-	SPACE PROV

LOAD INFORMATION — A = AFCI; G = GFCI; A/G = AFCI/GFCI; ST = SHUNT TRIP; LN = LOCK-ON; LF = LOCK-OFF

	KVA	AMPS
TOTAL CONNECTED LOAD	3	8
EST. MAX DEMAND	2	6

NOTES:
1.

PANEL SCHEDULE

PANEL H — NOTE 1 — VOLTAGE 277 / 480V — PHASE 3Ø — 4 WIRE, SOLID NEUTRAL — 18 KAIC RMS — 100 A MAIN LUGS — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	-	1	20*	-	1	A	2	-	20*	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20*	-	3	B	4	-	20*	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20*	-	5	C	6	-	20*	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20*	-	7	A	8	-	20*	3	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20*	-	9	B	10	-	-	-	-	-	-
SPARE	2,000	S	1	20	-	11	C	12	-	-	-	-	-	-
SPARE	2,000	S	1	20	-	13	A	14	-	20	1	S	2,000	SPARE
SPARE	2,000	S	1	20	-	15	B	16	-	20	1	S	2,000	SPARE
SPARE	2,000	S	1	20	-	17	C	18	-	20	1	S	2,000	SPARE
SPARE	2,000	S	1	20	-	19	A	20	-	20	1	S	2,000	SPARE
SPACE PROV	-	-	1	20	-	21	B	22	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	23	C	24	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	25	A	26	-	50	3			XFMR TR-1
SPACE PROV	-	-	1	20	-	27	B	28	-	-	-			-
SPACE PROV	-	-	1	20	-	29	C	30	-	-	-			-

LOAD INFORMATION — A = AFCI; G = GFCI; A/G = AFCI/GFCI; ST = SHUNT TRIP; LN = LOCK-ON; LF = LOCK-OFF

	KVA	AMPS
TOTAL CONNECTED LOAD	18	22
EST. MAX DEMAND	14	16

NOTES:
1. REPLACE PANEL AS PART OF BID ALTERNATE #3.
* BREAKER SIZE TO BE VERIFIED.

PANEL SCHEDULE

PANEL L — NOTE 1 — VOLTAGE 120 / 208V — PHASE 3Ø — 4 WIRE, SOLID NEUTRAL — 10 KAIC RMS — 100 A MAIN BREAKER — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	-	1	20	-	1	A	2	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	3	B	4	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	5	C	6	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	7	A	8	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	9	B	10	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	11	C	12	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	13	A	14	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	15	B	16	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	17	C	18	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	19	A	20	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	21	B	22	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	23	C	24	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	25	A	26	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	27	B	28	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	29	C	30	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	31	A	32	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	3	20	-	33	B	34	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	-	20	-	35	C	36	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	-	20	-	37	A	38	-	20	1	S	1,000	SPARE
EXISTING LOAD	-	-	3	20	-	39	B	40	-	20	1	S	1,000	SPARE
-	-	-	-	-	-	41	C	42	-	20	1	-	-	SPACE PROV
-	-	-	-	-	-	43	A	44	-	60	3	-	-	EXISTING LOAD
SPARE	1,000	S	1	20	-	45	B	46	-	-	-	-	-	-
SPARE	1,000	S	1	20	-	47	C	48	-	-	-	-	-	-
SPACE PROV	-	-	1	20	-	49	A	50	-	100	3	-	-	EXISTING LOAD
SPACE PROV	-	-	1	20	-	51	B	52	-	-	-	-	-	-
SPACE PROV	-	-	1	20	-	53	C	54	-	-	-	-	-	-

LOAD INFORMATION — A = AFCI; G = GFCI; A/G = AFCI/GFCI; ST = SHUNT TRIP; LN = LOCK-ON; LF = LOCK-OFF

	KVA	AMPS
TOTAL CONNECTED LOAD	4	11
EST. MAX DEMAND	3	8

NOTES:
1. REPLACE PANEL AS PART OF BID ALTERNATE #3.

DISTRIBUTION PANEL SCHEDULE

PANEL PCA (CLARK) — VOLTAGE 277 / 480V — PHASE 3Ø — 18 KAIC RMS — 4 WIRE, SOLID NEUTRAL — 600A MAIN LUGS
EST. MAX DEMAND 0 KVA

CKT. NO.	SERVES	LOAD (KVA)	BREAKER SIZE	BREAKER POLE	BREAKER TYPE	REMARKS
1	SPD	-	60	3	TM	-
2	ELEVATOR EAST	-	60	3	TM	PROVIDE WITH DRY CONTACTS
3	WEST TRANSFORMER	-	60	3	TM	-
4	EAST TRANSFORMER	-	60	3	TM	-
5	PANEL HCA	-	100	3	TM	-
6	PANEL PCB	-	200	3	TM	-
7	PANEL HCB, HCC, HCD	-	200	3	TM	-
8	SPACE PROV	-	200	3	-	-
9	SPACE PROV	-	100	3	-	-
10	SPACE PROV	-	100	3	-	-

GENERAL NOTES:
A. BREAKER TYPE: TM=THERMAL MAGNETIC; LSIG=LONG, SHORT; INSTANTANEOUS, GROUND; ST=SHUNT; AX=AUXILIARY CONTACTS
B. IT IS ACCEPABLE TO USE A COMBINATION DISTRIBUTION/BRANCH CIRCUIT PANELBOARD.
C. BREAKER SIZES INDICATED ARE FRAME SIZES ONLY. FIELD VERIFY EXISTING CIRCUITS AND PROVIDE BREAKER TRIP SETTINGS TO MATCH EXISTING PROTECTION REQUIREMENTS.

NOTES:
1.

PANEL SCHEDULE

PANEL PCB (CLARK) — VOLTAGE 277 / 480V — PHASE 3Ø — 4 WIRE, SOLID NEUTRAL — 14 KAIC RMS — 225 A MAIN LUGS — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
P-2		M	3	30	-	1	A	2	-	30	3	M		AIR COMPRESSOR
-		M	-	-	-	3	B	4	-	-	-	M		-
-		M	-	-	-	5	C	6	-	-	-	M		-
P-3		M	3	30	-	7	A	8	-	30	3	M		PUMP P-1
		M	-	-	-	9	B	10	-	-	-	M		-
		M	-	-	-	11	C	12	-	-	-	M		-
EF-1		M	3	30	-	13	A	14	-	60	3	M		RF-1
-		M	-	-	-	15	B	16	-	-	-	M		-
-		M	-	-	-	17	C	18	-	-	-	M		-
WATER HEATER		M	3	60	-	19	A	20	-	100	3	M		AHU-1
-		M	-	-	-	21	B	22	-	-	-	M		-
-		M	-	-	-	23	C	24	-	-	-	M		-
SPACE PROV	-	-	1	20	-	25	A	26	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	27	B	28	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	29	C	30	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	31	A	32	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	33	B	34	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	35	C	36	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	37	A	38	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	39	B	40	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	41	C	42	-	20	1	-	-	SPACE PROV

LOAD INFORMATION — A = AFCI; G = GFCI; A/G = AFCI/GFCI; ST = SHUNT TRIP; LN = LOCK-ON; LF = LOCK-OFF

	KVA	AMPS
TOTAL CONNECTED LOAD	0	0
EST. MAX DEMAND	0	0

NOTES:
1.

DISTRIBUTION PANEL SCHEDULE

PANEL SF1 — VOLTAGE 277 / 480V — PHASE 3Ø — 18 KAIC RMS — 4 WIRE, SOLID NEUTRAL — 600A MAIN LUGS
EST. MAX DEMAND 0 KVA

CKT. NO.	SERVES	LOAD (KVA)	BREAKER SIZE	BREAKER POLE	BREAKER TYPE	REMARKS
1	SPD	-	60	3	TM	-
2	STERLIZER	-	60	3	TM	-
3	ELEVATOR	-	100	3	LSI	PROVIDE WITH DRY CONTACTS
4	PANEL PRA	-	100	3	TM	-
5	PANEL H3	-	125	3	TM	-
6	PANEL HP1	-	225	3	TM	-
7	T-DPL1	-	300	3	TM	-
8	XFMR PANEL T-L5	-	50	3	TM	-
9	PANEL HFB	-	100	3	TM	-
10	XFMR T3	-	150	3	TM	NOTE 1, 2
11	PANEL HAX	-	400	3	TM	-
12	PANEL HBX	-	200	3	TM	-
13	SPACE PROV	-	225	3	-	-
14	SPACE PROV	-	100	3	-	-
15	SPACE PROV	-	100	3	-	-

GENERAL NOTES:
A. BREAKER TYPE: TM=THERMAL MAGNETIC; LSIG=LONG, SHORT; INSTANTANEOUS, GROUND; ST=SHUNT; AX=AUXILIARY CONTACTS

NOTES:
1. PROVIDE WITH LOCK-OFF DEVICE FOR REMOTE TRANSFORMER DISCONNECT.
2. AS PART OF BID ALTERNATE #3 REDUCE BREAKER SIZE TO 110A.

PANEL SCHEDULE

PANEL L3 SECTION 1 — VOLTAGE 120 / 208V — PHASE 3Ø — 4W, SOLID NEUTRAL, FEED THROUGH LUGS — 10 KAIC RMS — 225 A MAIN BREAKER — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	-	1	20	-	1	A	2	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	3	B	4	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	5	C	6	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	7	A	8	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	9	B	10	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	11	C	12	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	13	A	14	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	15	B	16	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	17	C	18	-	30	2	-	-	EXISTING AIR COMP
EXISTING LOAD	-	-	2	30	-	19	A	20	-	-	-	-	-	-
-	-	-	-	-	-	21	B	22	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	2	20	-	23	C	24	-	20	1	-	-	EXISTING LOAD
-	-	-	-	-	-	25	A	26	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	2	20	-	27	B	28	-	20	1	-	-	EXISTING LOAD
-	-	-	-	-	-	29	C	30	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	2	20	-	31	A	32	-	20	1	-	-	EXISTING LOAD
-	-	-	-	-	-	33	B	34	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	2	20	-	35	C	36	-	20	1	-	-	EXISTING LOAD
-	-	-	-	-	-	37	A	38	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	39	B	40	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	41	C	42	-	20	1	-	-	EXISTING LOAD

PANEL L3 SECTION 2 — VOLTAGE 120 / 208V — PHASE 3Ø — 4 WIRE SOLID NEUTRAL — 10 KAIC RMS — 225 A MAIN LUGS — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	-	1	20	-	43	A	44	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	45	B	46	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	47	C	48	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	49	A	50	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	51	B	52	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	53	C	54	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	55	A	56	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	57	B	58	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	59	C	60	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	61	A	62	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	63	B	64	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	65	C	66	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	67	A	68	-	20	1	-	-	SPACE PROV
EXISTING LOAD	-	-	1	20	-	69	B	70	-	20	1	-	-	SPACE PROV
EXISTING LOAD	-	-	1	20	-	71	C	72	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	73	A	74	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	75	B	76	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	77	C	78	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	79	A	80	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	81	B	82	-	20	1	-	-	SPACE PROV
SPACE PROV	-	-	1	20	-	83	C	84	-	20	1	-	-	SPACE PROV

LOAD INFORMATION — A = AFCI; G = GFCI; A/G = AFCI/GFCI; ST = SHUNT TRIP; LN = LOCK-ON; LF = LOCK-OFF

	KVA	AMPS
TOTAL CONNECTED LOAD	0	0
EST. MAX DEMAND	0	0

NOTES:
1. PROVIDE PANEL WITH FEED THRU LUGS.

PANEL SCHEDULE

PANEL L5 — NOTE 1 — VOLTAGE 120 / 208V — PHASE 3Ø — 4 WIRE, SOLID NEUTRAL — 10 KAIC RMS — 100A MAIN BREAKER — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	-	1	20	-	1	A	2	-	20	2	-	-	A108 AC
EXISTING LOAD	-	-	1	20	-	3	B	4	-	-	-	-	-	-
EXISTING LOAD	-	-	1	20	-	5	C	6	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	7	A	8	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	9	B	10	-	30	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	11	C	12	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	13	A	14	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	15	B	16	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	40	-	17	C	18	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	19	A	20	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	21	B	22	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	23	C	24	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	25	A	26	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	27	B	28	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	29	C	30	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	2	50	-	31	A	32	-	20	1	-	-	EXISTING LOAD
-	-	-	-	-	-	33	B	34	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	1	20	-	35	C	36	-	20	1	-	-	EXISTING LOAD
EXISTING LOAD	-	-	3	30	-	37	A	38	-	20	1	-	-	EXISTING LOAD
-	-	-	-	-	-	39	B	40	-	20	1	-	-	EXISTING LOAD
-	-	-	-	-	-	41	C	42	-	20	1	-	-	EXISTING LOAD

LOAD INFORMATION — A = AFCI; G = GFCI; A/G = AFCI/GFCI; ST = SHUNT TRIP; LN = LOCK-ON; LF = LOCK-OFF

	KVA	AMPS
TOTAL CONNECTED LOAD	0	0
EST. MAX DEMAND	0	0

NOTES:
1. REPLACE PANEL AS PART OF BID ALTERNATE #3.

PANEL SCHEDULE

PANEL HOOVER - P1 — VOLTAGE 277 / 480V — PHASE 3Ø — 4 WIRE, SOLID NEUTRAL — 14 KAIC RMS — 200 A MAIN BREAKER — SURFACE MOUNTED

LOAD DESCRIPTION	LOAD VA	LOAD TYPE	BREAKER POLES	BREAKER AMPS	BREAKER TYPE	NO.	PHASE	NO.	BREAKER TYPE	BREAKER AMPS	BREAKER POLES	LOAD TYPE	LOAD VA	LOAD DESCRIPTION
EXISTING LOAD	-	X	3	30	-	1	A	2	-	30	3	S	-	SPARE
-	-	X	-	-	-	3	B	4	-	-	-	S	-	-
-	-	X	-	-	-	5	C	6	-	-	-	S	-	-
SPARE	-	S	3	20	-	7	A	8	-	15	3	M	-	EXISTING LOAD
-	-	S	-	-	-	9	B	10	-	-	-	M	-	-
-	-	S	-	-	-	11	C	12	-	-	-	M	-	-
EXISTING LOAD	-	M	3	15	-	13	A	14	-	15	3	M	-	EXISTING LOAD
-	-	M	-	-	-	15	B	16	-	-	-	M	-	-
-	-	M	-	-	-	17	C	18	-	-	-	M	-	-
SPARE	-	S	3	15	-	19	A	20	-	20	1	L	-	EXISTING LOAD
-	-	S	-	-	-	21	B	22	-	20	1	L	-	EXISTING LOAD
-	-	S	-	-	-	23	C	24	-	20	1	L	-	EXISTING LOAD
EXISTING LOAD	-	L	1	20	-	25	A	26	-	20	1	L	-	EXISTING LOAD
EXISTING LOAD	-	L	1	20	-	27	B	28	-	20	1	S	-	SPARE
EXISTING LOAD	-	L	1	20	-	29	C	30	-	20	1	S	-	SPARE
SPARE	-	S	1	20	-	31	A	32	-	20	1	S	-	SPARE
SPARE	-	S	1	20	-	33	B	34	-	20	1	-	-	SPACE
SPACE	-	-	1	20	-	35	C	36	-	20	1	-	-	SPACE
PANEL HS	-	-	3	150	-	37	A	38	-	30	3	-	-	SPD
-	-	-	-	-	-	39	B	40	-	-	-	-	-	-
-	-	-	-	-	-	41	C	42	-	-	-	-	-	-

LOAD INFORMATION — A = AFCI; G = GFCI; A/G = AFCI/GFCI; ST = SHUNT TRIP; LN = LOCK-ON; LF = LOCK-OFF

	KVA	AMPS
TOTAL CONNECTED LOAD	0	0
EST. MAX DEMAND	0	0

NOTES:
1.

Engineering Technologies Inc
MECHANICAL & ELECTRICAL BUILDING SOLUTIONS
1101 N. 13TH ST., OMAHA, NE 68102
P 402.330.2772 F 402.330.2630
WWW.ETI-ENGINEERS.COM

IWCC FREMONT HALL ELECTRICAL SERVICE REPLACEMENT

IWCC-26-10

2700 COLLEGE RD,
COUNCIL BLUFFS, IA 51503

REV. #	DESCRIPTION	DATE
-	100% BID SET	10.20.2026
1	ADDENDUM 01	11.03.2026

PROJECT NUMBER: 2025-049
DATE: OCTOBER 20, 2026
DRAWN BY: EAR
CHECKED BY: SMH

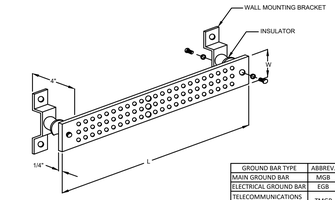
SHEET NAME:
ELECTRICAL SCHEDULES

SHEET NUMBER:
EG2.0

DETAIL GENERAL NOTES

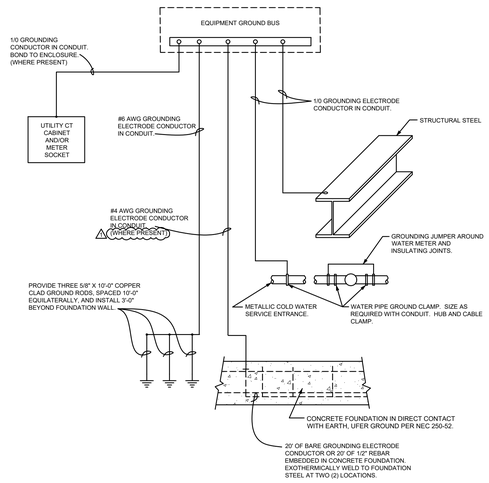
A. PRE-DRILLED GROUND BAR, DIMENSION AS INDICATED ON THE PLANS.

B. PROVIDE FULL GROUND BAR KIT INCLUDING MOUNTING HARDWARE AS REQUIRED.



GROUND BAR TYPE	ABBREV.	SIZE
MAIN GROUND BAR	MGB	4"X12"
ELECTRICAL GROUND BAR	EGB	2"X8"
TELECOMMUNICATIONS MAIN GROUND BAR	TMGB	4"X12"
TELECOMMUNICATIONS GROUND BAR	TGB	2"X8"

K13 / EG2.1 *INSULATED GROUND BAR DETAIL*
SCALE: N.T.S.



F10 / EG2.1 *SERVICE GROUNDING DETAIL - LOOFT HALL, HOOVER HALL* ⚠
SCALE: N.T.S.

DETAIL GENERAL NOTES:

A. INSTALL GROUND AND BONDING CONDUCTORS WITH SUFFICIENT SLACK TO AVOID BREAKAGE DUE TO SETTLEMENT AND MOVEMENT OF CONDUCTORS AT ATTACHED POINTS.

B. GROUNDING CONDUCTORS SHALL BE UL LISTED FOR THE PURPOSE INTENDED.

C. BELOW GRADE GROUNDING CONNECTIONS SHALL BE MADE BY USING EXOTHERMIC WELD PROCESS. MATERIALS USED (MOLDS, WELDING METAL, TOOLS ETC.) SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.

D. ABOVE GRADE GROUNDING CONNECTIONS SHALL BE MADE USING TWO HOLE CRIMP TYPE COMPRESSION CONNECTIONS. MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED.

E. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN CONTINUOUS FROM THE GROUND BAR. IDENTIFY EACH GROUNDING ELECTRODE WITH AN IDENTIFICATION LABEL AT ITS SOURCE.

EQUIPMENT MOUNTING NOTES

THE TOP ONE (1) FOOT OF SUB GRADE BENEATH THE SLAB SHALL BE THOROUGHLY COMPACTED TO 90% OF MAXIMUM DENSITY PER ASTM D698.

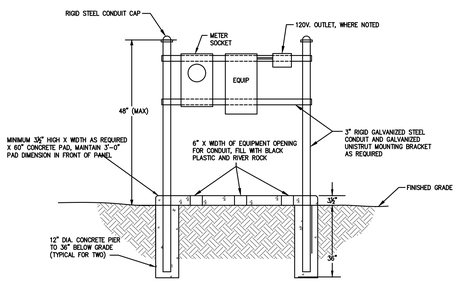
IF THE TOP THREE (3) FEET OF SUB GRADE BENEATH THE SLAB IS SUSCEPTIBLE TO A HIGH WATER TABLE OR PERIODIC SATURATION, THE EXISTING SOIL SHALL BE EXCAVATED AND BACK FILLED WITH A CLEAN SAND OR GRAVEL AND THOROUGHLY COMPACTED TO 90% OF MAXIMUM DENSITY PER ASTM D2049 AND D1556.

SLAB TO BE MADE OF SG-6 CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 3,000 PSI.

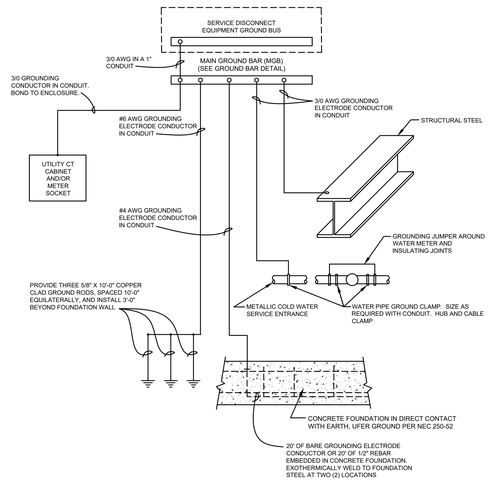
TOP OF SLAB MUST BE SMOOTH, FLAT, AND LEVEL.

ALL MATERIAL FURNISHED BY THE CUSTOMER SHALL EQUAL OR EXCEED THE STANDARDS AS SPECIFIED IN THE "NATIONAL ELECTRICAL CODE".

ALL CONDUITS ENTERING SLAB TO BE VERTICAL AND AT A 90° ANGLE WITH TOP OF SLAB.



A5 / EG2.1 *UNISTRUT EQUIPMENT MOUNTING DETAIL*
SCALE: N.T.S.



A10 / EG2.1 *SERVICE GROUNDING DETAIL - LEWIS HALL, FREMONT HALL*
SCALE: N.T.S.

DETAIL GENERAL NOTES:

A. INSTALL GROUND AND BONDING CONDUCTORS WITH SUFFICIENT SLACK TO AVOID BREAKAGE DUE TO SETTLEMENT AND MOVEMENT OF CONDUCTORS AT ATTACHED POINTS.

B. GROUNDING CONDUCTORS SHALL BE UL LISTED FOR THE PURPOSE INTENDED.

C. BELOW GRADE GROUNDING CONNECTIONS SHALL BE MADE BY USING EXOTHERMIC WELD PROCESS. MATERIALS USED (MOLDS, WELDING METAL, TOOLS ETC.) SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.

D. ABOVE GRADE GROUNDING CONNECTIONS SHALL BE MADE USING TWO HOLE CRIMP TYPE COMPRESSION CONNECTIONS. MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED.

E. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN CONTINUOUS FROM THE GROUND BAR. IDENTIFY EACH GROUNDING ELECTRODE WITH AN IDENTIFICATION LABEL AT ITS SOURCE.

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IWCC FREMONT HALL ELECTRICAL SERVICE REPLACEMENT

IWCC-26-10

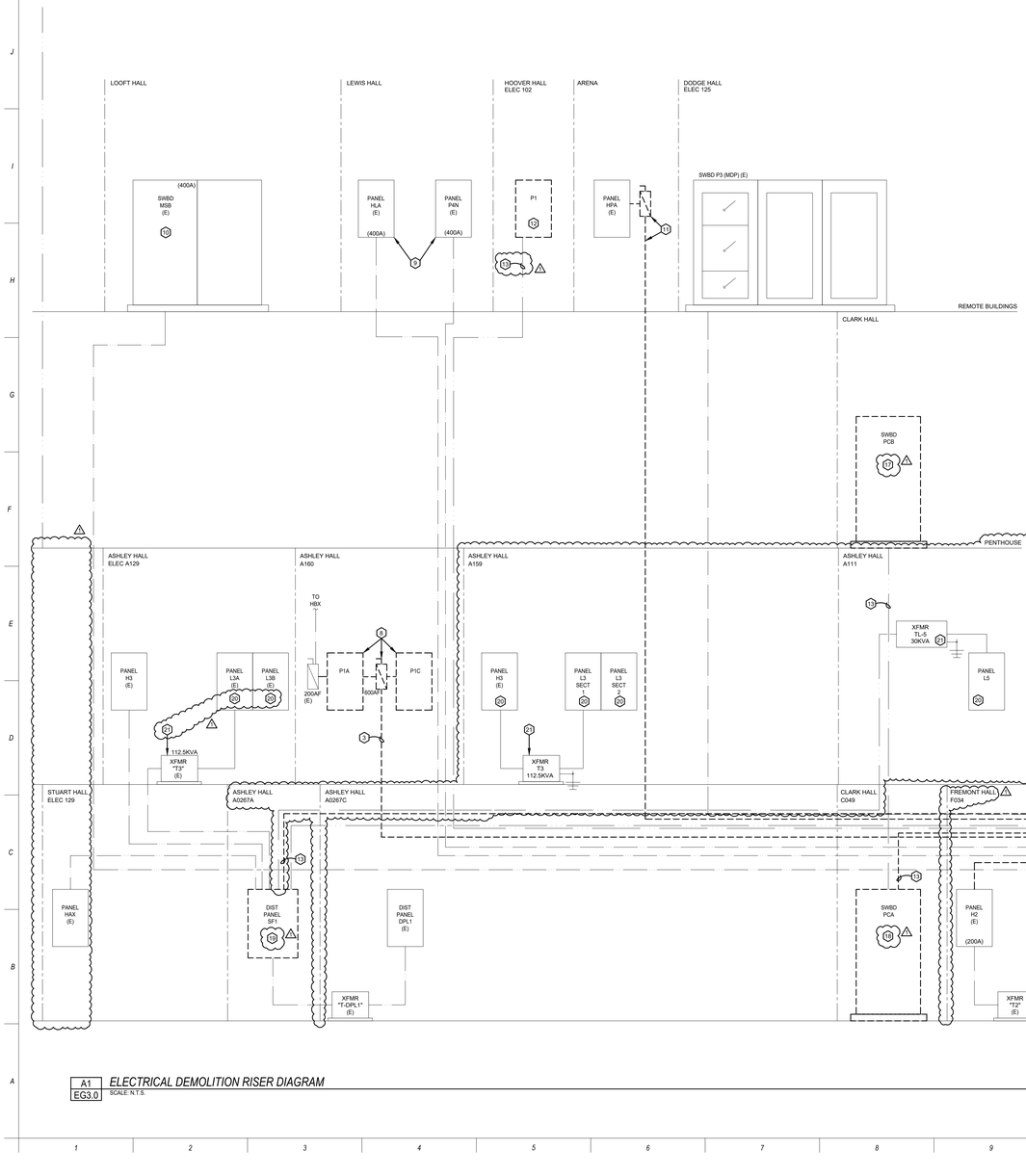
2700 COLLEGE RD.
COUNCIL BLUFFS, IA 51503

REV. #	DESCRIPTION	DATE
-	100% BID SET	10.20.2026
⚠	ADDENDUM 01	11.03.2026

PROJECT NUMBER:	2025-049
DATE:	OCTOBER 20, 2026
DRAWN BY:	EAR
CHECKED BY:	SMH

SHEET NAME:
ELECTRICAL DETAILS

SHEET NUMBER:
EG2.1



A1 EG3.0 *ELECTRICAL DEMOLITION RISER DIAGRAM*
SCALE: N.T.S.

SHEET NOTES

1. REMOVE EXISTING 2,500A, 480Y/277V, 3-PHASE SWITCHBOARD MSB IN ITS ENTIRETY. COORDINATE REQUIRED DOWNTIME WITH THE OWNER PRIOR TO DEMOLITION. MAINTAIN CONTINUITY OF ALL REMAINING CIRCUITS NOT DESIGNATED FOR REMOVAL.
2. REPLACE AS PART OF BID ALTERNATE #3. REFERENCE PANEL SCHEDULE.
3. REMOVE EXISTING 600A FEEDER CONDUCTORS AND EXPOSED CONDUITS. ABANDON UNDERGROUND CONDUIT IN PLACE.
4. REMOVE 3-SECTION 208Y/120V, 3Ø, 4W PANEL BOARD IN ITS ENTIRETY. ALL EXISTING BRANCH CIRCUITS SHALL BE RE-CONNECT TO NEW PANEL L4. VERIFY ALL EXISTING LOADS PRIOR TO ORDERING EQUIPMENT.
5. REMOVE 225A, 480Y/277V, 3Ø, 4W PANEL IN ITS ENTIRETY, INCLUDING CONTACTOR.
6. REMOVE EXISTING TRANSFORMER AND ASSOCIATED FEEDERS.
7. REMOVE 225A MLO, 208Y/120V, 3Ø, 4W PANELBOARD. ALL EXISTING BRANCH CIRCUITS SHALL BE RE-CONNECT TO NEW PANELS L4 AND LHE. VERIFY ALL EXISTING LOADS PRIOR TO ORDERING EQUIPMENT.
8. REMOVE 600A FUSED DISCONNECT AND TWO PANELBOARDS, INCLUDING FEEDER CONDUCTORS BACK TO SOURCE. CAP CONDUITS AT 12" ABOVE FLOOR WITH THREADED FITTING AT EACH END.
9. EXISTING PANELS AND FEEDERS FOR LEWIS HALL TO REMAIN AND BE RE-CONNECTED TO NEW SWITCHBOARD AS PART OF THE BASE BID. SEE RISER DIAGRAM (EG3.1) FOR BID ALTERNATE SCOPE OF WORK.
10. EXISTING SWITCHBOARD AND FEEDERS FOR LOOFT HALL TO REMAIN AND BE RE-CONNECTED TO NEW SWITCHBOARD AS PART OF THE BASE BID. SEE RISER DIAGRAM (EG3.1) FOR BID ALTERNATE SCOPE OF WORK.
11. REMOVE 600V, 200A DISCONNECT AND FEEDER TO FREMONT HALL.
12. REMOVE 100A, 480Y/277V, 3Ø,4W BRANCH CIRCUIT PANEL. RE-CONNECT ALL EXISTING BRANCH CIRCUITS TO NEW PANEL.
13. REMOVE EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY. MAINTAIN CONDUIT FOR NEW FEEDER.
14. AS PART OF BID ALTERNATE #4. REMOVE EXISTING 45KW NATURAL GAS GENERATOR, CONCRETE PAD, NATURAL GAS CONNECTION AND FEEDER TO ATS. MAINTAIN CONDUIT FOR NEW FEEDER.
15. REMOVE EXISTING FEEDER CONDUCTORS IN THEIR ENTIRETY. ABANDON CONDUIT IN PLACE AND LABEL "SPARE".
16. REPLACE SURGE PROTECTION DEVICE.
17. REMOVE 225A, 480Y/277V, 3Ø, 4W, I-T-E- SWITCHBOARD. RE-CONNECT ALL EXISTING CIRCUITS TO NEW BRANCH PANEL.
18. REMOVE 600A, 480Y/277V, 3Ø, 4W, I-T-E- SWITCHBOARD. RE-CONNECT ALL EXISTING CIRCUITS TO NEW DISTRIBUTION PANEL.
19. REMOVE 800A, 480Y/277V, 3Ø, 4W, 14KAIC RATED GE TYPE CCB PANELBOARD. RE-CONNECT ALL EXISTING CIRCUITS TO NEW DISTRIBUTION PANEL.
20. AS PART OF BID ALTERNATE #3. REPLACE PANEL WITH NEW AND RE-CONNECT ALL EXISTING BRANCH CIRCUITS.
21. AS PART OF BID ALTERNATE #3. REPLACE TRANSFORMER. REMOVE PRIMARY AND SECONDARY FEEDERS, EXISTING CONDUIT CAN BE REUSED.

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IWCC-26-10

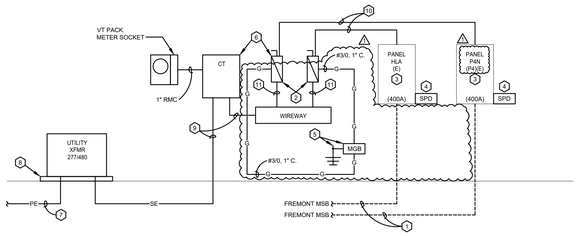
2700 COLLEGE RD.
COUNCIL BLUFFS, IA 51503

REV. #	DESCRIPTION	DATE
.	100% BID SET	10.20.2026
1	ADDENDUM 01	11.03.2026

PROJECT NUMBER:	2025-049
DATE:	OCTOBER 20, 2026
DRAWN BY:	EAR
CHECKED BY:	SMH

SHEET NAME:
ELECTRICAL DEMOLITION RISER DIAGRAM

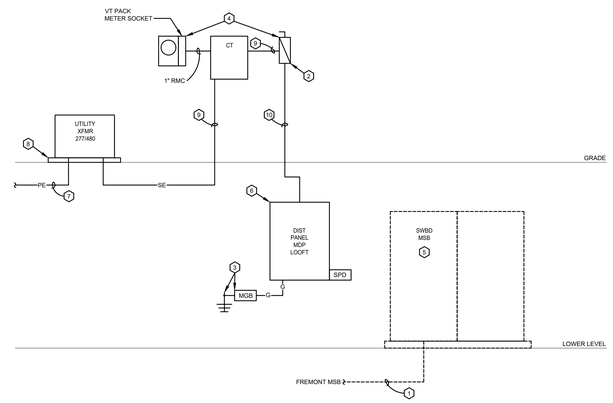
SHEET NUMBER:
EG3.0



K1 EG3.1 *BID ALTERNATE #1 - LEWIS HALL RISER DIAGRAM*
SCALE: N.T.S.

SHEET NOTES

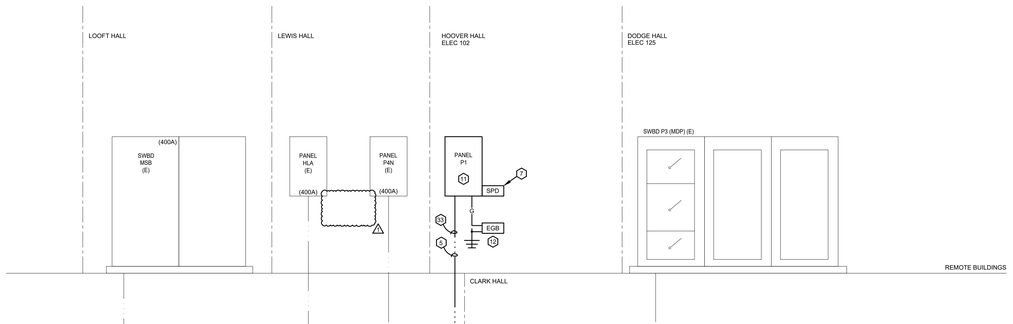
1. REMOVE EXISTING 400A FEEDER TO FREMONT HALL.
2. PROVIDE NEW 480V, 3Ø, 400A FUSED, NEMA 3R SERVICE RATED DISCONNECT SWITCH. LABEL SERVICE DISCONNECTS #1 & #2.
3. REMOVE SERVICE DISCONNECT LABEL.
4. PROVIDE 120KA PER PHASE SURGE PROTECTION DEVICES WITH 60A/3P BREAKER IN EXISTING PANEL.
5. PROVIDE NEW MAIN GROUND BAR AND BUILDING SERVICE GROUNDING PER NEC, REFERENCE DETAILS A10/EG2.1, K13/EG2.1.
6. LOCATE METERING AND SERVICE DISCONNECTS ON EXISTING BUILDING EXTERIOR. PAINT TO MATCH BUILDING EXTERIOR.
7. PROVIDE (1) 4" CONDUITS WITH PULLWIRE TO XFMR TD-4 AND PE-104. DIRECTIONALLY BORE UNDER PARKING LOT.
8. PROVIDE CONCRETE TRANSFORMER PAD PER UTILITY COMPANY REQUIREMENTS.
9. PROVIDE 2 SETS OF 4-#500 AL IN 3.50" C.
10. PROVIDE 2 SETS OF 4-#250 AL & #3 GND IN 3.00" C.
11. PROVIDE 2 SETS OF 4-#250 AL IN 2.50" C.

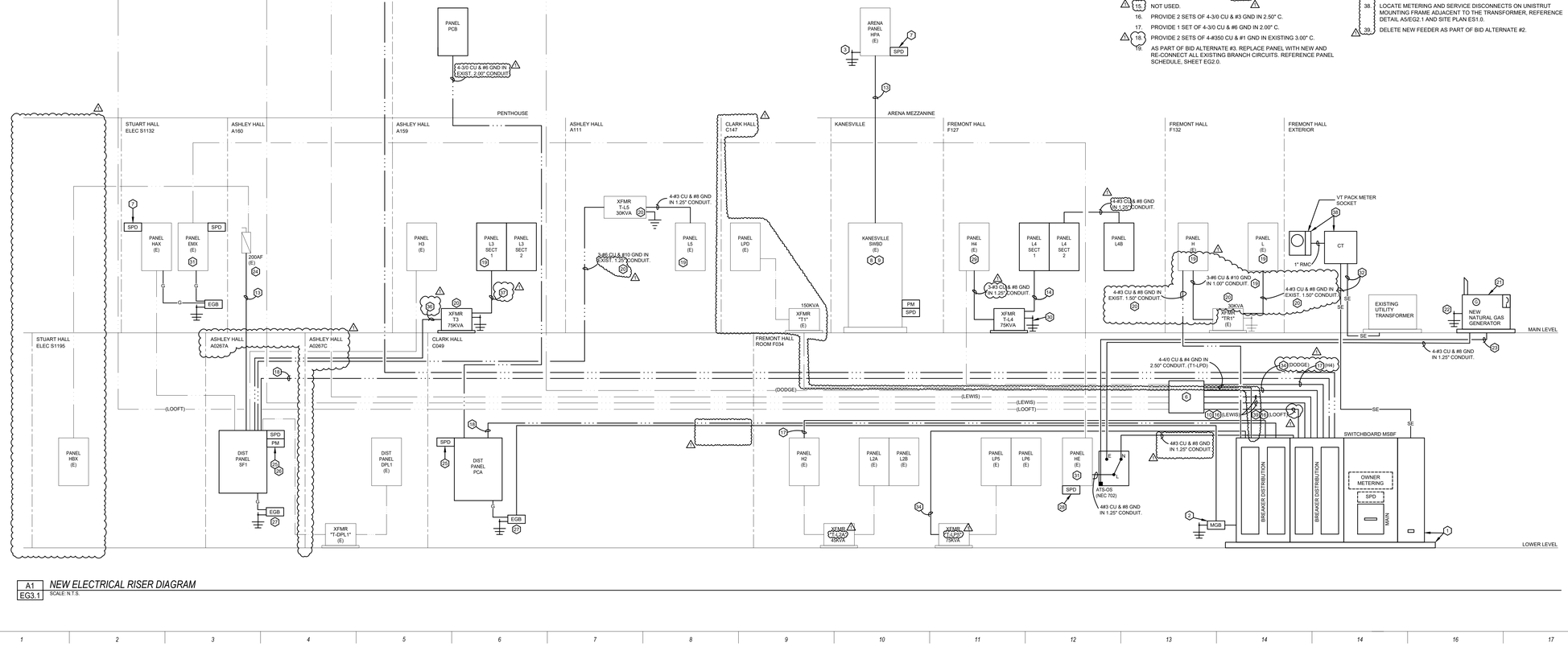


K10 EG3.1 *BID ALTERNATE #2 - LOOFT HALL RISER DIAGRAM*
SCALE: N.T.S.

SHEET NOTES

1. REMOVE EXISTING 400A FEEDER TO FREMONT HALL.
2. PROVIDE NEW 400A FUSED, NEMA 3R SERVICE RATED DISCONNECT SWITCH. LABEL SERVICE DISCONNECT.
3. PROVIDE NEW MAIN GROUND BAR AND BUILDING SERVICE GROUNDING PER NEC, REFERENCE DETAILS K13/EG2.1, F10/EG2.1.
4. LOCATE METERING AND SERVICE DISCONNECTS ON UNISTRUT MOUNTING FRAME ADJACENT TO THE TRANSFORMER, REFERENCE DETAIL A5/EG2.1 AND SITE PLAN ES1.0.
5. REMOVE EXISTING 400A, 480Y/277V, 3Ø, 4W, 2 SECTION FUSED SWITCHBOARD. EXTEND ALL EXISTING CIRCUITS TO NEW DISTRIBUTION PANEL.
6. PROVIDE A NEW DISTRIBUTION PANEL IN THE LOCATION OF THE EXISTING SWITCHBOARD. PROVIDE ADDITIONAL GUTTERS, WIREWAYS, OR PULL SECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION. FIELD VERIFY THE QUANTITY, SIZE, AND TERMINATION REQUIREMENTS OF ALL EXISTING CIRCUITS PRIOR TO ORDERING NEW EQUIPMENT.
7. PROVIDE (2) 4" CONDUITS WITH PULLWIRE TO EXISTING REIVER TOWER TRANSFORMER. DIRECTIONALLY BORE UNDER PARKING LOT.
8. PROVIDE CONCRETE TRANSFORMER PAD PER UTILITY COMPANY REQUIREMENTS.
9. PROVIDE 2 SETS OF 4-#250 AL IN 2.50" C.
10. PROVIDE 2 SETS OF 4-#250 AL & #3 GND IN 3.00" C.





SHEET NOTES

1. MAINTAIN EXISTING CONCRETE PAD FOR NEW EQUIPMENT. FIELD VERIFY LOCATION, AND SIZE OF ALL EXISTING UNDER-SLAB CONDUITS PRIOR TO EQUIPMENT PROCUREMENT. COORDINATE EQUIPMENT CONFIGURATION TO ENSURE ALL CONDUIT PATHWAYS REMAIN CONCEALED WITHIN THE NEW GEAR.
2. PROVIDE EXTERNAL MAIN GROUND BAR, DETAIL K13/EG2.1. EXTEND EXISTING GROUNDING ELECTRODE CONDUCTOR FROM UFER IF PRESENT. PROVIDE NEW GROUNDING TO STEEL, WATER SERVICE AND PROVIDE NEW GROUND RODS, SEE DETAIL A10/EG.2.1.
3. PROVIDE #6 BONDING CONDUCTOR TO STRUCTURAL STEEL.
4. NOT USED.
5. PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT.
6. PROVIDE SPLICE BOXES AS REQUIRED TO EXTEND EXISTING FEEDERS AND BRANCH CIRCUITS TO THE NEW SWITCHBOARD. SIZE AND CONFIGURE SPLICE BOXES IN ACCORDANCE WITH NEC REQUIREMENTS, INCLUDING CONDUCTOR BENDING SPACE, WIRE FILL, AND TERMINATION REQUIREMENTS.
7. PROVIDE 100KA PER PHASE SURGE PROTECTION DEVICES WITH SURGE COUNTER AND DRY CONTACTS, ABB OVRT2. PROVIDE NEW 30A/3P BREAKER IN EXISTING PANEL.
8. EXISTING 800A, 480Y/277V, 3Ø, 4W, GE SPECTRA SERIES SWITCHBOARD. REPLACE EXISTING INTERNAL SURGE PROTECTION DEVICES WITH NEW EXTERNAL SPD 200KA PER PHASE WITH SURGE COUNTER AND DRY CONTACTS, ABB OVRT2-480Y/277. PROVIDE NEW EXTERNAL POWER METER, SHARK 250S.
9. PROVIDE NEW 200A LSI STYLE BREAKER TO FEED EXISTING PANEL HPA. PROVIDE NEW BREAKER NAMEPLATE.
10. DELETE NEW FEEDER AS PART OF BID ALTERNATE #1.
11. PROVIDE NEW PANEL IN PLACE OF EXISTING AND RECONNECT ALL EXISTING BRANCH CIRCUITS. REFERENCE PANEL SCHEDULE.
12. PROVIDE EXTERNAL GROUND BAR AND GROUNDING ELECTRODES TO BUILDING STEEL, WATER METALLIC WATER SERVICE AND (2) 5/8" GROUND RODS, REFERENCE DETAILS K13 & F10/EG2.1.
13. PROVIDE 1 SET OF 4-#250 AL & #6 GND IN 2.50" C.
14. PROVIDE 1 SET OF 4-4/0 CU & #4 GND IN 2.50" CONDUIT.
15. NOT USED.
16. PROVIDE 2 SETS OF 4-3/0 CU & #3 GND IN 2.50" C.
17. PROVIDE 1 SET OF 4-3/0 CU & #6 GND IN 2.00" C.
18. PROVIDE 2 SETS OF 4-#350 CU & #1 GND IN EXISTING 3.00" C.
19. AS PART OF BID ALTERNATE #3, REPLACE PANEL WITH NEW AND RE-CONNECT ALL EXISTING BRANCH CIRCUITS. REFERENCE PANEL SCHEDULE, SHEET EG2.0.
20. AS PART OF BID ALTERNATE #3, REPLACE TRANSFORMER. PROVIDE NEW PRIMARY AND SECONDARY FEEDERS, EXISTING CONDUIT CAN BE REUSED AS AVAILABLE.
21. AS PART OF BID ALTERNATE #4, PROVIDE A NEW 45KW NATURAL GAS GENERATOR WITH 100A BREAKER AND CONCRETE PAD WITH FROST FOOTINGS. EXISTING CONDUIT FOR FEEDER AND CONTROL WIRING CAN BE RE-USED AS AVAILABLE.
22. PROVIDE 5/8" X 10FT GROUND ROD BONDED TO GENERATOR FRAME WITH #6 AWG.
23. GENERATOR CONTROL WIRING IN 1.00" C. PROVIDE WIRING AS REQUIRED BY MANUFACTURER.
24. PROVIDE NEW ENGRAVED NAMEPLATE FOR DISCONNECT, INDICATING SOURCE AND LOAD SERVED.
25. PROVIDE NEW SPD 200KA PER PHASE WITH SURGE COUNTER AND DRY CONTACTS, ABB OVRT2-480/277.
26. PROVIDE NEW POWER METER SHARK 100B.
27. PROVIDE EXTERNAL GROUND BAR AND GROUNDING ELECTRODES TO BUILDING STEEL, REFERENCE DETAILS K13/EG2.1.
28. PROVIDE NEW 100KA PER PHASE SPD WITH SURGE COUNTER AND DRY CONTACTS, ABB OVRT2. CONNECT TO EXISTING BREAKER IN PANEL.
29. PROVIDE A NEW 100A, 3-POLE BREAKER IN EXISTING PANEL TO FEED NEW TRANSFORMER.
30. BOND TRANSFORMER SECONDARY PER NEC REQUIREMENTS. (TYPICAL)
31. PROVIDE NEW RED NAMPLATE FOR EMERGENCY PANELS. AS PART OF BID ALTERNATE #4 CONTRACTOR SHALL TRACE EXISTING EMERGENCY SYSTEM AND LABEL ALL EQUIPMENT, DEVICES AND LIGHT FIXTURES.
32. PROVIDE 5 SETS OF 4-400MCM AL IN 3.00" C.
33. PROVIDE 1 SET OF 4-300 AL & #4 GND IN EXISTING 3.00" C.
34. PROVIDE 1 SET OF 3-1/0 AL & #6 GND IN 2.00" C.
35. PROVIDE 3 SETS OF 4-300 CU & 1/0 GND IN 3.00 C.
36. PROVIDE 1 SET OF 2/0 CU & #6 GND IN 2.00" C.
37. PROVIDE 1 SET OF 4-4/0 CU & #4 GND IN 2.50" C.
38. LOCATE METERING AND SERVICE DISCONNECTS ON UNISTRUT MOUNTING FRAME ADJACENT TO THE TRANSFORMER, REFERENCE DETAIL A5/EG2.1 AND SITE PLAN ES1.0.
39. DELETE NEW FEEDER AS PART OF BID ALTERNATE #2.

A1 EG3.1 *NEW ELECTRICAL RISER DIAGRAM*
SCALE: N.T.S.

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COUNCIL BLUFFS, IA 51503

REV. #	DESCRIPTION	DATE
-	100% BID SET	10.20.2026
1	ADDENDUM 01	11.03.2026

PROJECT NUMBER:	2025-049
DATE:	OCTOBER 20, 2026
DRAWN BY:	EAR
CHECKED BY:	SMH

SHEET NAME:
NEW ELECTRICAL RISER DIAGRAM

SHEET NUMBER:
EG3.1



SHEET NOTES

1. BID ALTERNATE #1. PROVIDE NEW UTILITY COMPANY TRANSFORMER AND CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS. INSTALL SECONDARY FEEDER AT 36" BELOW FINISHED GRADE WITH RED WARNING TAPE AT 12" BFG. REFERENCE RISER DIAGRAM K1/EG3.1.
2. BID ALTERNATE #2. PROVIDE NEW UTILITY COMPANY TRANSFORMER AND CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS. INSTALL SECONDARY FEEDER AT 36" BELOW FINISHED GRADE WITH RED WARNING TAPE AT 12" BFG. REFERENCE RISER DIAGRAM K10/EG3.1.
3. PROVIDE PRIMARY ELECTRICAL SERVICE CONDUITS AS PART OF BID ALTERNATE. INSTALL CONDUITS AT 48" BELOW FINISHED GRADE WITH RED WARNING TAPE AT 12". COORDINATE EXACT ROUTING IN THE FIELD WITH MEC AND OWNER.
4. PROVIDE UNI-STRUT MOUNTING BRACKET FOR INSTALLATION OF NEW METERING AND SERVICE DISCONNECT.
5. ASHLEY PANEL P1 FEEDER, REFERENCE ELECTRICAL DEMOLITION RISER DIAGRAM SHEET EG3.0. PROVIDE NEW TRACEABLE PULL TAPE IN EXISTING CONDUIT.
6. UNDERGROUND FEEDER TO HOOVER PANEL P1. REFERENCE RISER DIAGRAMS ON EG3.0, EG3.1. LABEL FEEDER IN PULLBOX.
7. UNDERGROUND FEEDER TO ASHLEY HALL PANEL SF1. REPLACE CONDUCTORS IN EXISTING CONDUITS, SEE ELECTRICAL RISER DIAGRAMS ON EG3.0, EG3.1.

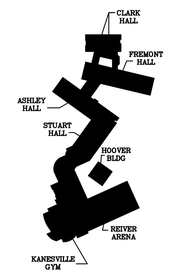
A1
ES1.0 *ELECTRICAL SITE PLAN*
SCALE: 1" = 60'-0"

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KEY PLAN

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SHEET NAME:
ELECTRICAL SITE PLAN

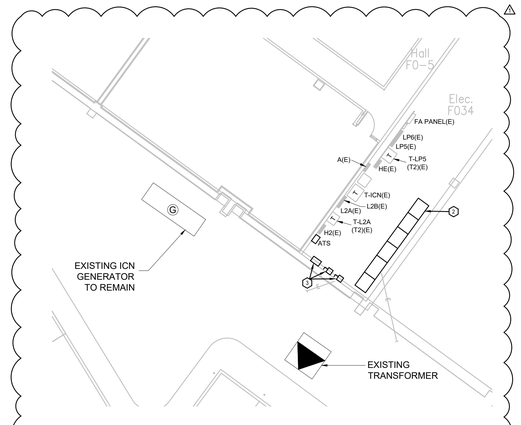
SHEET NUMBER:
ES1.0

SHEET NOTES

1. PROVIDE CONNECTION TO ENGINE BLOCK HEATER WITH 2-#10 AND #10 GND IN 0.75" CONDUIT. PROVIDE A NEW 20A/1P BREAKER IN EXISTING PANELBOARD.
2. MAIN SWITCHBOARD TO BE REMOVED. REFER TO ELECTRICAL DEMOLITION RISER DIAGRAM ON SHEET EG3.0 FOR MORE INFORMATION.
3. REMOVE DISCONNECT SWITCH, SAFETY SWITCH, EXTERNAL SURGE PROTECTION DEVICE, ELECTRICAL METER ON THIS WALL.
4. EXISTING EMERGENCY PULLBOX TO REMAIN. TAG EXISTING CIRCUITS.
5. NEW MAIN SWITCHBOARD MSBF. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET EG3.1 FOR MORE INFORMATION.
6. GENERATOR AND ATS TO BE REPLACED, AS PART OF BID ALTERNATE #4.
7. PROVIDE NEW SECONDARY ELECTRICAL SERVICE, INTERCEPT AND RE-USE EXISTING CONDUIT PENETRATIONS INTO THE BUILDING. INSTALL AT MINIMUM 30" BELOW GRADE.



A1 / E1.0B — *LOWER LEVEL ELECTRICAL PLAN - FREMONT HALL*
SCALE: 3/32" = 1'-0"



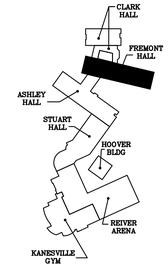
A11 / E1.0B — *PARTIAL LOWER LEVEL ELECTRICAL DEMOLITION PLAN - FREMONT HALL*
SCALE: 3/32" = 1'-0"

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CHECKED BY:	SMH

SHEET NAME:
LOWER LEVEL ELECTRICAL PLAN - FREMONT HALL

SHEET NUMBER:
E1.0B

SHEET NOTES

1. NOT USED.



A1 / E1.1A *FIRST LEVEL ELECTRICAL PLAN - CLARK HALL*

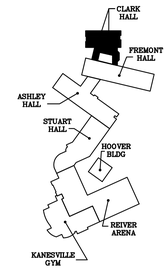
SCALE: 3/32" = 1'-0"

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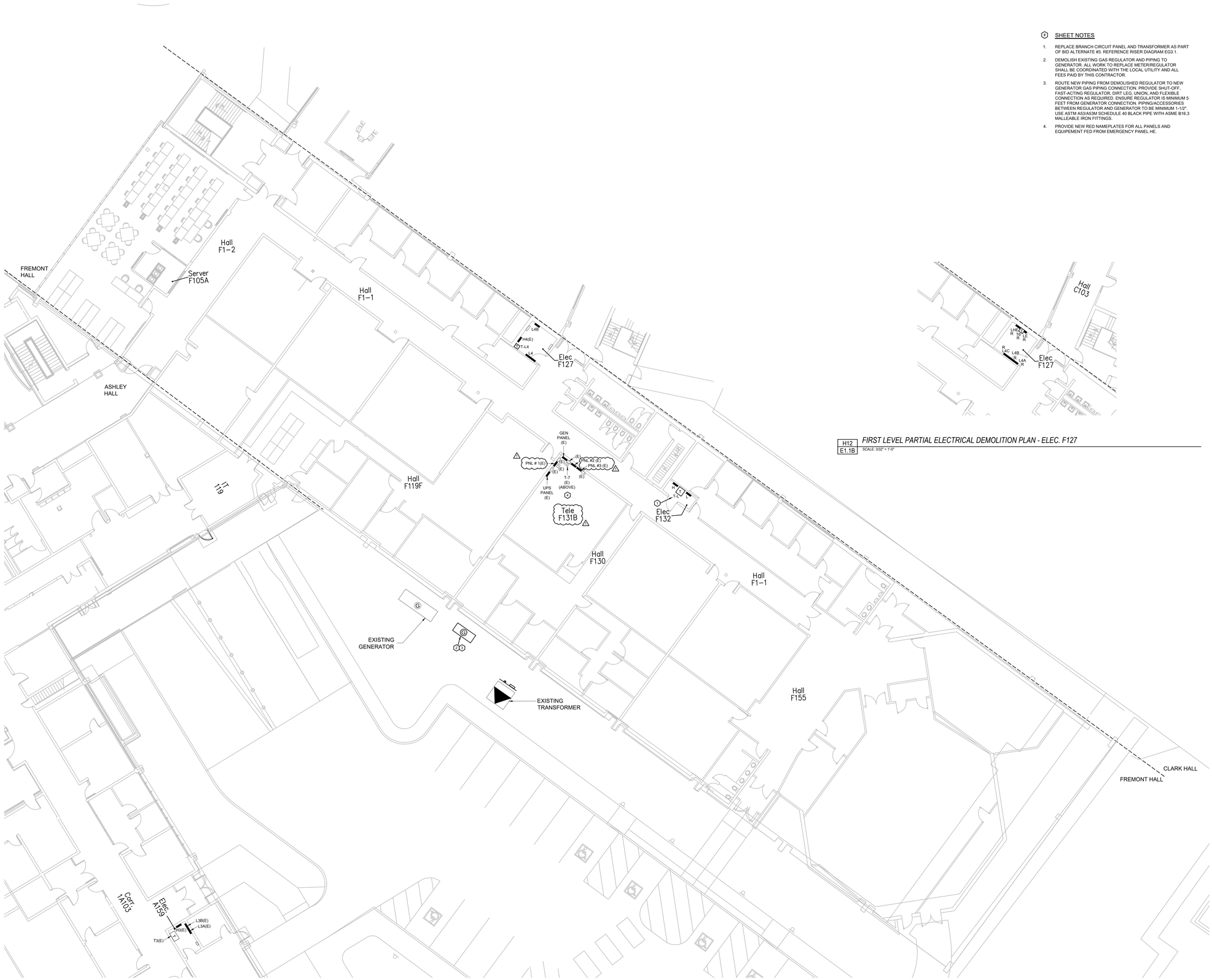
PROJECT NUMBER:	2025-049
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DRAWN BY:	EAR
CHECKED BY:	SMH

SHEET NAME:

FIRST LEVEL ELECTRICAL PLAN - CLARK HALL

SHEET NUMBER:

E1.1A



SHEET NOTES

1. REPLACE BRANCH CIRCUIT PANEL AND TRANSFORMER AS PART OF BID ALTERNATE #3. REFERENCE RISER DIAGRAM EG3.1.
2. DEMOLISH EXISTING GAS REGULATOR AND PIPING TO GENERATOR. ALL WORK TO REPLACE METER/REGULATOR SHALL BE COORDINATED WITH THE LOCAL UTILITY AND ALL FEES PAID BY THIS CONTRACTOR.
3. ROUTE NEW PIPING FROM DEMOLISHED REGULATOR TO NEW GENERATOR GAS PIPING CONNECTION. PROVIDE SHUT-OFF, FAST-ACTING REGULATOR, DIRT LEG, UNION, AND FLEXIBLE CONNECTION AS REQUIRED. ENSURE REGULATOR IS MINIMUM 5 FEET FROM GENERATOR CONNECTION. PIPING/ACCESSORIES BETWEEN REGULATOR AND GENERATOR TO BE MINIMUM 1-1/2". USE ASTM A53/A53M SCHEDULE 40 BLACK PIPE WITH ASME B16.3 MALLEABLE IRON FITTINGS.
4. PROVIDE NEW RED NAMEPLATES FOR ALL PANELS AND EQUIPEMENT FED FROM EMERGENCY PANEL HE.

H12 / E1.1B — *FIRST LEVEL PARTIAL ELECTRICAL DEMOLITION PLAN - ELEC. F127*
SCALE: 3/32" = 1'-0"

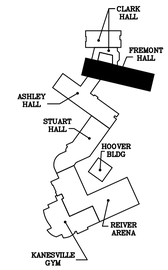
A1 / E1.1B — *FIRST LEVEL ELECTRICAL PLAN - FREMONT HALL*
SCALE: 3/32" = 1'-0"

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FIRST LEVEL ELECTRICAL PLAN - FREMONT HALL

SHEET NUMBER:
E1.1B