

Project: Spirit Mountain Chairlift – Bid Package 02: Electrical

Owner: City of Duluth

Solicitation No.: 25-99554

Issue Date: June 20, 2025

Bid Date: July 01, 2025, at 2:00 PM

To: Prospective Bidders

From: Kraus-Anderson Construction Company

2000 West Superior St., Suite 101
Duluth, MN 55806

1.01 INTRODUCTION

- A. This Addendum is a Contract Document that modifies the original Bidding Documents dated June 06, 2025, including previous Addendums. Acknowledge receipt of this Addendum in BidExpress. Failure to do so may subject Bid to disqualification.
- B. Use descriptions of changes to Specifications and Drawings in this Document only as a guide only. When Specification Sections or Drawings are issued or reissued with this Addendum the changes made in Specification or on Drawings take precedence over narrative description. When the Specification Section or Drawing is not reissued, the narrative description in this Addendum will communicate the revisions. Each Bidder shall make an independent determination of the work affected by Addendum items.
- C. This Addendum consists of 1 page, plus attachments listed below. Specification Sections and Drawings are not attached unless specifically indicated as (Attached).
- D. **Specification Revisions:** When Specification Sections are reissued, they will be replaced in their entirety. Revisions will be identified by a "Revision Note" that identifies which paragraph was revised, deleted or added. Revised text will be highlighted by overstriking deleted text and underlining new text.
- E. **Drawing Revisions:** Drawings replaced in their entirety with revisions identified by clouding changes and adding a "Revision Delta" near the cloud. The Revision ledger will indicate the date of the revision.

1.02 CHANGES TO DOCUMENTS

Modifications to KA Special Requirements

- 1. No Change

Modifications to Specifications

- 2. No Change

Modifications to Project Drawings

- 3. See attached CMTA Addendum 01 narrative and drawings dated June 20, 2025, for complete details. (Attached)

-- End of Addendum --

ADDENDUM – Addendum 1

Date	06/20/2025
Project #	2025088
Project Name	Spirit Mountain Ski Lift Replacement
Project Location	Duluth, MN

NOTICE TO BIDDERS: This Addendum is prepared to supplement information presented in the Drawings and Project Manual for the above referenced project. All additions, changes, omissions, and conditions listed herein shall become an integral part of the Contract Documents.

Drawings

ITEM NO. 1 Sheet E0.0 – ELECTRICAL TITLE SHEET

1. Revised and Merged transformer L and L2 one-line diagrams.
2. Added Sheet note W1 to panels CLP1 and SLP1.
3. Revised transformer U one-line.

ITEM NO. 2 Sheet E0.1 – ELECTRICAL DEMO SITE PLAN

1. Modified sheet note ED2 to allow for abandoning disconnected conductors in place.
2. Indicated area on plan marked with dashed line and labeled with ED3 with planned owner landscaping that will add scope to new construction.

ITEM NO. 3 Sheet E0.2 – ELECTRICAL NEW WORK SITE PLAN

1. Significantly reworked scope on sheet, see drawing.

ITEM NO. 4 Sheet E1.0 – ELECTRICAL ENLARGED PLAN

1. Removed return shack detail.
2. Added details for new utility transformer work, summit chute lights, and lift return lights.
3. Replaced panel schedule U-HPU with (E) LOAD CENTER.
4. Changed L2-HP2 to main breaker type panel.
5. Updated directories for L2-HP1 and L2-HP2.
6. Updated sheet note ED3.
7. Added sheet notes L1, W1, W2, W3, W4, and W5.

END OF ADDENDUM

Andrew Carlson EIT

Project Name:

Spirit Mountain
 Spirit Mountain
 SKI LIFT
 REPLACEMENT

Project Location:
 Duluth, MN

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THESE DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY FOR THIS PROJECT ONLY. THEY ARE NOT TO BE REPRODUCED OR USED ON OTHER PROJECTS OR IN OTHER LOCATIONS WITHOUT THE EXPRESS WRITTEN APPROVAL AND PROTECTION OF CMTA.

MARK	DATE	REVISION
△	6/20/25	ADDENDUM #1

**FINAL REVIEW
 DRAFT SET**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Reg. No. 48725 Signature: *Andrew A. Bartish*
 Date: 06/18/2025 Printed Name: Andrew A. Bartish

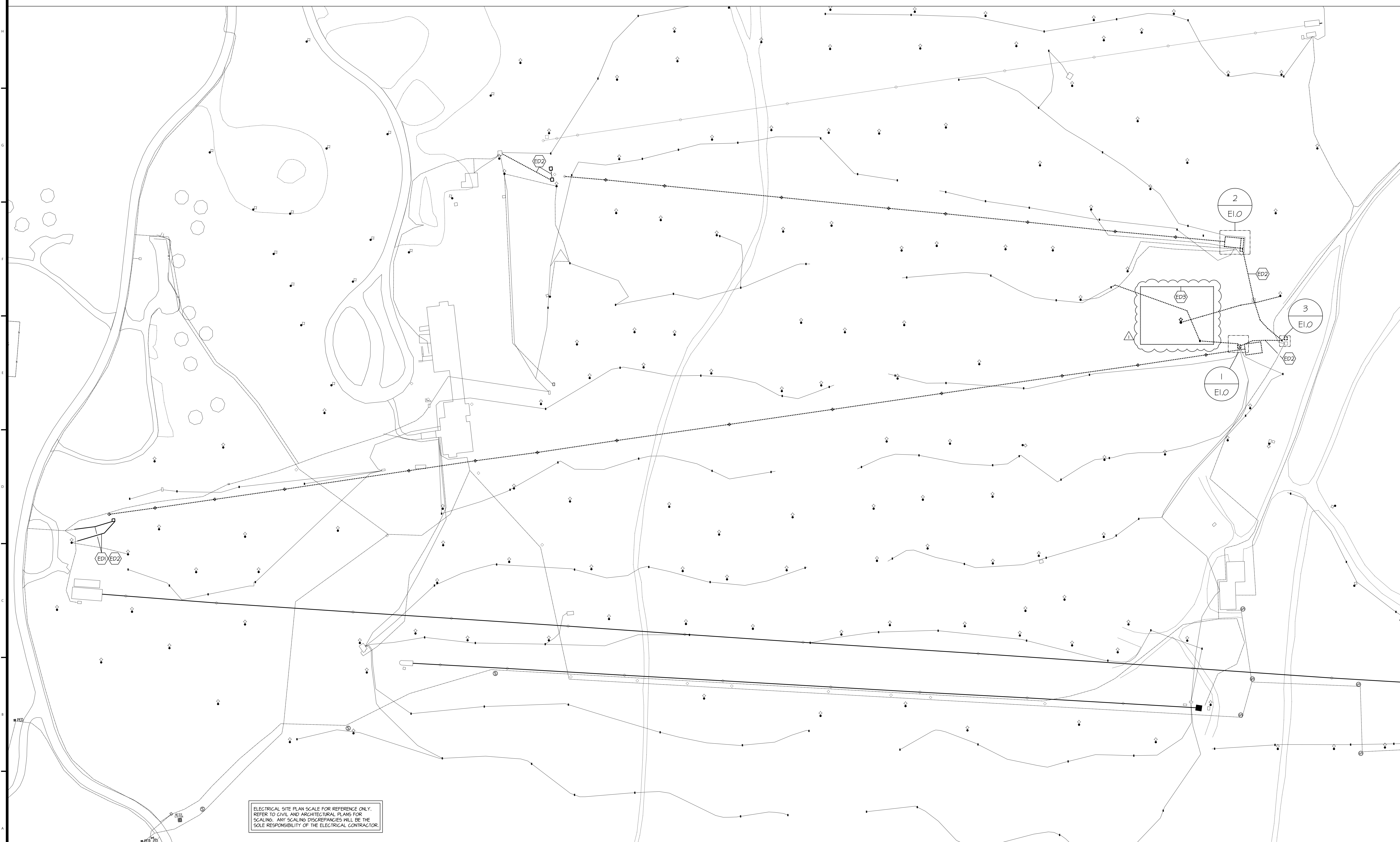
Project Information:
 Project No.: 2025088
 Drawn By: A.CARLSON
 Checked By: S.HEADTKE
 Date: MAY, 23, 2025
 File Name: 2025088_E0.1.dwg

Sheet Title:
 ELECTRICAL DEMO SITE PLAN

Sheet Number:
 E0.1

SHEET NOTES:

- ED1 DISCONNECT CONDUIT AND CONDUCTORS FROM KNIFE SWITCH ADJACENT TO TRANSFORMER PRIOR TO DEMOLITION OF CONNECTED STRUCTURE.
- ED2 DISCONNECT AND ABANDON CONDUCTORS AND CONDUIT IN PLACE.
- ED3 OWNER CONDUCTING LANDSCAPING IN THIS AREA. INDICATED DEMOLITION TO BE COMPLETED BY OWNER AND SHOWN FOR REFERENCE ONLY.



ELECTRICAL SITE PLAN SCALE FOR REFERENCE ONLY. REFER TO CIVIL AND ARCHITECTURAL PLANS FOR SCALING. ANY SCALING DISCREPANCIES WILL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

Project Name:

Spirit Mountain
 Spirit Mountain
 SKI LIFT
 REPLACEMENT

Project Location:
 Duluth, MN

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**FINAL REVIEW
 DRAFT SET**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Reg. No. 48775 Signature: *Andrew A. Bartish*
 Date: 06/18/2025 Printed Name: Andrew A. Bartish

Project Information:
 Project No.: 2025088
 Drawn By: A.CARLSON
 Checked By: S.HEADTKE
 Date: MAY, 23, 2025
 File Name: 2025088_E0.2.dwg

Sheet Title:

ELECTRICAL NEW WORK SITE PLAN

Sheet Number:

E0.2

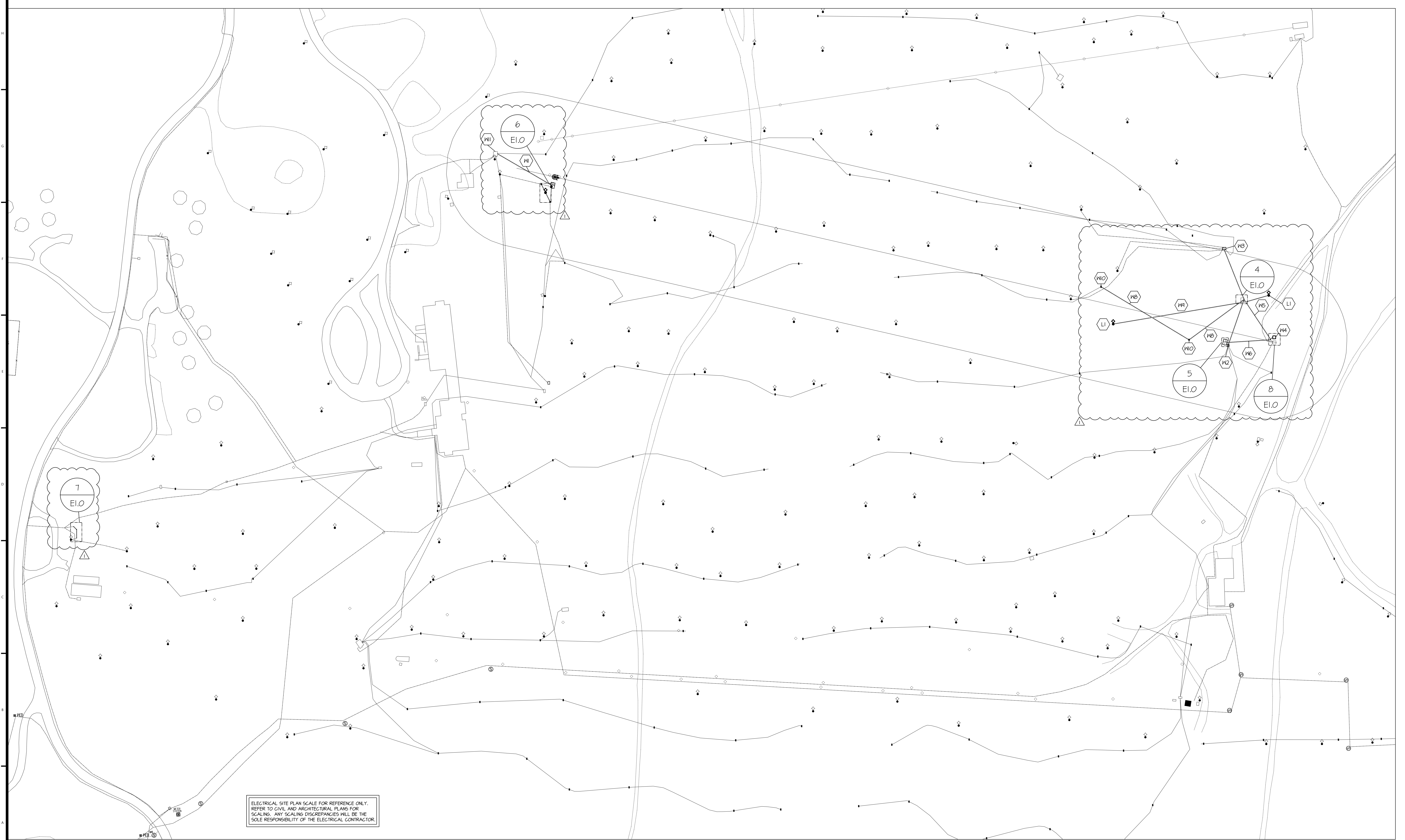
GENERAL NOTES:
 ELECTRICIAN TO TRACE CIRCUITS AND PROVIDE UP TO DATE CIRCUIT TYPED CIRCUIT DIRECTORY FOR NEW PANELS UPON COMPLETION OF THE PROJECT.

SHEET NOTES:

- (LI) NEW LIGHT POLE BY OWNER.
- (W) PROVIDE 1-1/4" x 1/2" x 3/16" x 806 FROM NEW 60A/20P BREAKER IN EXISTING G08-16 LOAD CENTER LOCATED IN VALVE HOUSE FOR LIFT MANUFACTURER PROVIDED 240V/20V PANEL.
- (N2) INTERCEPT, SPLICE, AND EXTEND CIRCUITS FED FROM THIS LOCATION (EXISTING PANEL SLPI) TO NEW PANEL(S) (REFER TO PANEL SCHEDULES) PROVIDE OPEN BOTTOM IN-GRADE GROUND BOX WITH WATER PROOF DRIVE OVER RATED COVER.
- (N3) INTERCEPT, SPLICE, AND EXTEND CIRCUITS FED FROM THIS LOCATION (EXISTING PANEL CLPI) TO NEW PANEL(S) (REFER TO PANEL SCHEDULES) PROVIDE OPEN BOTTOM IN-GRADE GROUND BOX WITH WATER PROOF DRIVE OVER RATED COVER.
- (N4) COORDINATE WITH MN POWER FOR UPGRADE OF EXISTING 150KVA TRANSFORMER TO 300KVA.
- (N5) PROVIDE CONDUIT AND CONDUCTORS FROM SERVICE RATED DISCONNECT MOUNTED ON STRUT BACK PLANE LOCATED ADJACENT TO UTILITY TRANSFORMER TO WIRE GUTTER MOUNTED ON PLAN WEST FACING EXTERIOR WALL OF VALVE HOUSE C. SIZE AS INDICATED ON RISER DIAGRAM.

SHEET NOTES:

- (N6) PROVIDE CONDUIT AND CONDUCTORS FROM SERVICE RATED DISCONNECT MOUNTED ON STRUT BACK PLANE LOCATED ADJACENT TO UTILITY TRANSFORMER TO NEW LIFT SHACK PROVIDED BY LIFT MANUFACTURER. SIZE AS INDICATED ON RISER DIAGRAM.
- (N7) CONFIRM NEW SNOWMAKING PEDESTAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (N8) PROVIDE 3" x 3-1/2" x 1/2" BETWEEN REPLACED SNOW MAKING PEDESTALS AND NEW PANEL. WIRE AND CONNECT NEW SNOW MAKING PEDESTALS. OWNER TO PROVIDE TRENCH BETWEEN PEDESTALS. CONTRACTOR TO TRENCH FROM FINAL PEDESTAL TO PANEL.
- (N9) PROVIDE 1-1/2" x 2-1/2" x 1/2" FROM NEW POLE LOCATION TO REPLACED POLE. WIRE AND CONNECT BOTH POLES.
- (N10) EC TO PROVIDE NEW HTM DIRECT BURIAL SNOW MAKING PEDESTAL PER OWNER REQUIREMENTS.
- (N11) (B) LOAD CENTER FEEDING NEW RETURN SHACK IS LOCATED IN THIS BUILDING.



ELECTRICAL SITE PLAN SCALE FOR REFERENCE ONLY. REFER TO CIVIL AND ARCHITECTURAL PLANS FOR SCALING. ANY SCALING DISCREPANCIES WILL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

MARK	DATE	REVISION
△	6/20/25	ADDENDUM #1

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 DRAFT SET**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Reg. No. 48775 Signature: *Andrew A. Bartsch*
 Date: 06/18/2025 Printed Name: Andrew A. Bartsch

Project Information:
 Project No.: 2025088
 Drawn By: A.CARLSON
 Checked By: S.HEADTKE
 Date: MAY, 23, 2025
 File Name: 2025088_E1.0.dwg

Sheet Title:
 ELECTRICAL ENLARGED PLAN

Sheet Number:
 E1.0

- SHEET NOTES:**
- (ED1) CIRCUITS IN THIS PANEL WILL BE INTERCEPTED, SPLICED AND EXTENDED TO NEW PANEL LOCATION AT VALVE HOUSE C AS SHOWN ON SHEET E1.0 FOLLOWING APPROXIMATE CONDUIT PATH INDICATED BY SHEET E0.2.
 - (ED2) CIRCUITS IN THIS PANEL ARE TO BE DEMOLISHED.
 - (ED3) DISCONNECT AND DEMOLISH MANUAL TRANSFER SWITCH.
 - (L1) LIGHT POLE TO BE RELOCATED BY OWNER. CONTRACTOR TO WIRE AND CONNECT FIXTURE AT NEW LOCATION. CONFIRM FINAL LOCATION OF POLE WITH OWNER PRIOR TO SPLICING OF CIRCUIT.
 - (W1) INTERCEPT, SPLICE, AND EXTEND EXISTING LIGHTING CIRCUIT TO NEW POLE LOCATION. PROVIDE 1-1/2" C WITH 2#3 + #6 FROM PULL BOX TO NEW POLE LOCATION.
 - (W2) PROVIDE OPEN BOTTOM PULL BOX WITH WATERPROOF DRIVE-OVER RATED COVER FOR INTERCEPTION AND EXTENSION OF CIRCUIT.
 - (W3) INTERCEPT, SPLICE, AND EXTEND EXISTING LIGHTING CIRCUIT TO ACCOMMODATE REMOVAL OF RETURN SHACK. PROVIDE 1-1/2" C WITH 2#3 + #6 BETWEEN PULL BOXES.
 - (W4) PROVIDE NEW NEMA 3R SERVICE RATED DISCONNECTS FOR EACH SERVICE SIZED AS INDICATED ON RISER DIAGRAM.
 - (W5) CONTRACTOR TO PROVIDE WALL MOUNTED HTM SNOWMAKING PEDESTAL PER OWNER REQUIREMENTS. COORDINATE FINAL MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN.

PANELBOARD DESIGNATION: DEMOLISHED PANEL SHOWN FOR REFERENCE ONLY CLP1

AMPERES: 225 VOLTAGE: 480/277 TYPE OF MAIN: CKT BKR MOUNTING: SURFACE TYPE: BRANCH CIRCUIT

AIG RATING: 10K PHASE: 3 WIRE: 4

CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMP	LOAD PLS	KVA	PHASE	LOAD KVA	CKT BKR AMP	LOAD PLS	CIRCUIT DESCRIPTION	CKT NO.
1	LOWER	60	1	A	---	---	30	3	NEW VALVE BUILDING - VALVE HOUSE C	2
3	SPARE E	60	1	B	---	---	---	---	---	4
5	UPPER	60	1	C	---	---	---	---	---	6
7	LOWER	60	1	A	---	---	100	3	B - LIFT SEPARATE	8
4	5L156	40	2	B	---	---	---	---	---	10
11	---	---	---	C	---	---	---	---	---	12

NOTES:
 1. ---
 2. ---

PANELBOARD DESIGNATION: DEMOLISHED PANEL SHOWN FOR REFERENCE ONLY SLP1

AMPERES: 400 VOLTAGE: 480/277 TYPE OF MAIN: LUGS MOUNTING: SURFACE TYPE: BRANCH CIRCUIT

AIG RATING: 10K PHASE: 3 WIRE: 4

CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMP	LOAD PLS	KVA	PHASE	LOAD KVA	CKT BKR AMP	LOAD PLS	CIRCUIT DESCRIPTION	CKT NO.
1	VALVE PIT	15	2	A	---	---	15	2	LIFT SHACK	2
3	---	---	---	B	---	---	---	---	---	4
5	SNOW MAKING OUTLET / HILL	225	3	C	---	---	225	3	SNOW MAKING OUTLET	6
7	---	---	---	A	---	---	---	---	---	8
4	---	---	---	B	---	---	---	---	---	10
11	SNOW MAKING OUTLET	225	3	C	---	---	225	3	SNOW MAKING OUTLET / GAS/FUEL	12
13	---	---	---	A	---	---	---	---	---	14
15	---	---	---	B	---	---	---	---	---	16

NOTES:
 1. ---
 2. ---

PANELBOARD DESIGNATION: L2-HP1

AMPERES: 800 VOLTAGE: 480/277 TYPE OF MAIN: CKT BKR MOUNTING: SURFACE TYPE: DISTRIBUTION

AIG RATING: 22K PHASE: 3 WIRE: 4

CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMP	LOAD PLS	KVA	PHASE	LOAD KVA	CKT BKR AMP	LOAD PLS	CIRCUIT DESCRIPTION	CKT NO.
1	SOUTH LIFT SNOWMAKING **	225	3	A	---	---	225	3	SOUTH LIFT SNOWMAKING **	2
3	---	---	---	B	---	---	---	---	---	4
5	---	---	---	C	---	---	---	---	---	6
7	SOUTH LIFT SNOWMAKING **	225	3	A	---	---	225	3	SOUTH LIFT SNOWMAKING **	8
4	---	---	---	B	---	---	---	---	---	10
11	---	---	---	C	---	---	---	---	---	12
13	SNOWMAKING 6 **	200	3	A	---	---	200	3	SNOWMAKING 4 **	14
15	---	---	---	B	---	---	---	---	---	16
17	---	---	---	C	---	---	---	---	---	18
19	SNOWMAKING (FROM XTHR)	200	3	A	---	---	100	3	VALVE SHACK C SNOW MAKING	20
21	---	---	---	B	---	---	---	---	---	22
23	---	---	---	C	---	---	---	---	---	24
25	GAS FUEL **	100	3	A	---	---	225	3	SPARE	26
27	---	---	---	B	---	---	---	---	---	28
29	---	---	---	C	---	---	---	---	---	30

NOTES:
 1. PANEL IS TO BE SERVICE RATED
 2. * INDICATED CIRCUIT EXTENDED FROM DEMOLISHED PANEL CLP1
 3. ** INDICATES CIRCUIT EXTENDED FROM DEMOLISHED PANEL SLP1

PANELBOARD DESIGNATION: L2-HP2

AMPERES: 200 VOLTAGE: 480/277 TYPE OF MAIN: CKT BKR MOUNTING: SURFACE TYPE: DISTRIBUTION

AIG RATING: 22K PHASE: 3 WIRE: 4

CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMP	LOAD PLS	KVA	PHASE	LOAD KVA	CKT BKR AMP	LOAD PLS	CIRCUIT DESCRIPTION	CKT NO.
6	LOWER	60	1	A	---	---	30	3	VALVE HOUSE C	2
3	4 - LIGHTS	60	1	B	---	---	---	---	---	4
5	UPPER	60	1	C	---	---	---	---	---	6
7	LOWER	60	1	A	---	---	30	3	SPARE	8
4	5 - LIGHTS	40	2	B	---	---	---	---	---	10
13	LIGHTS (FROM XTHR)	60	1	A	---	---	60	1	SPARE	14
9	SPARE	60	1	B	---	---	60	1	SPARE	16
17	---	---	---	C	---	---	60	1	SPARE	18

NOTES:
 1. ALL CIRCUITS CURRENTLY SHOWN IN THIS PANEL ARE EXTENDED FROM DEMOLISHED PANEL CLP1 UNLESS OTHERWISE NOTED

PANELBOARD DESIGNATION: (E) LOAD CENTER

AMPERES: 100 VOLTAGE: 240/120 TYPE OF MAIN: CKT BKR MOUNTING: SURFACE TYPE: BRANCH CIRCUIT

AIG RATING: 10K PHASE: 3 WIRE: 4

CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMP	LOAD PLS	KVA	PHASE	LOAD KVA	CKT BKR AMP	LOAD PLS	CIRCUIT DESCRIPTION	CKT NO.
1	MAIN	100	2	A	---	---	60	2	RETURN SHACK (NEW)	2
3	---	---	---	B	---	---	---	---	---	4
5	SPACE	---	---	C	---	---	---	---	SPACE	6
7	EXISTING	20	1	A	---	---	20	1	EXISTING	8

NOTES:
 1. ---
 2. ---

