



CONTRACT DRAWINGS FOR THE CONSTRUCTION OF

TAXIWAY EDGE LIGHTS

PLACERVILLE AIRPORT

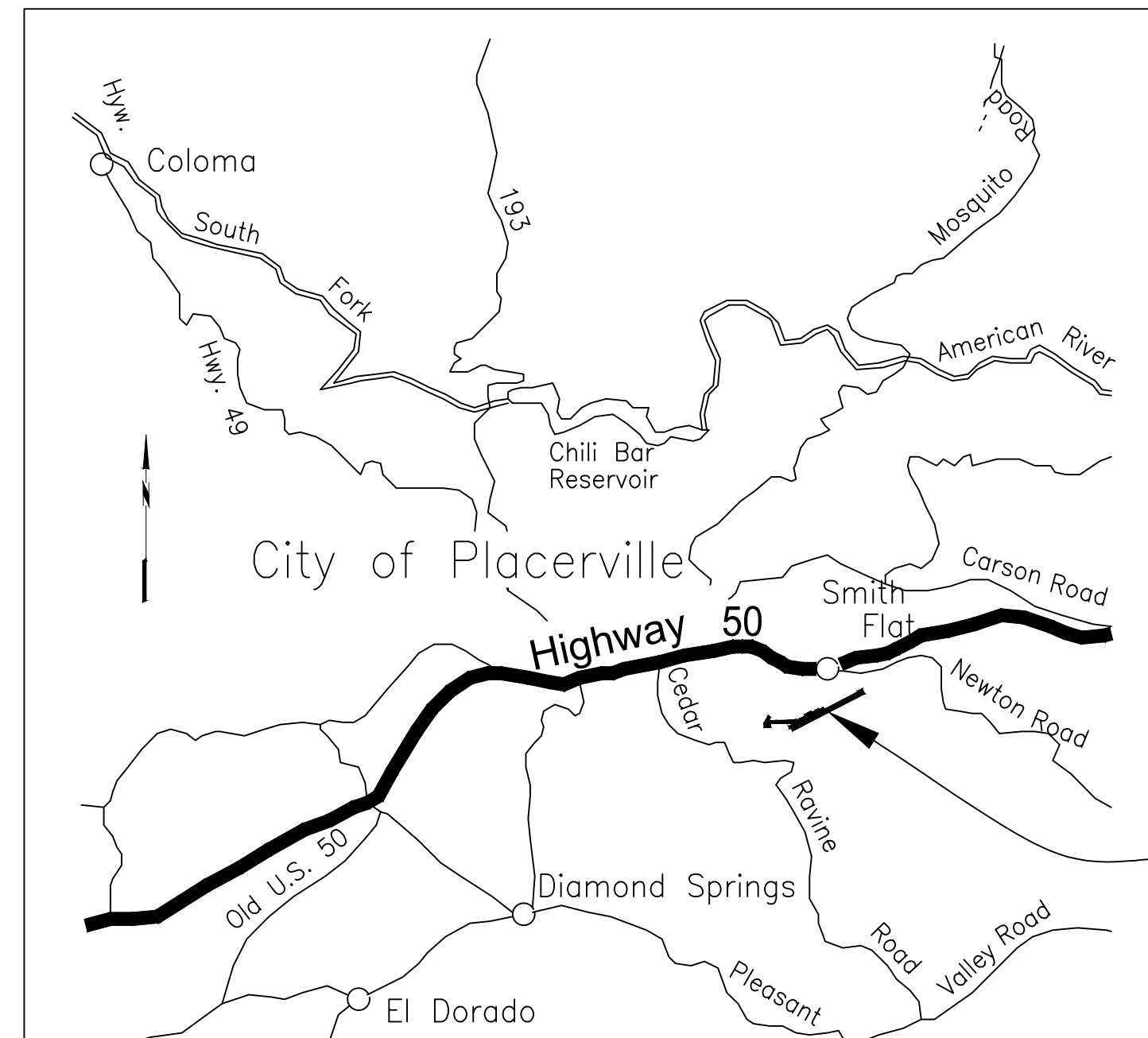
COUNTY OF EL DORADO COMMUNITY DEVELOPMENT SERVICES PLACERVILLE, CA

FAA AIP No.: 3-06-0188-018-2016

COUNTY OF EL DORADO PROJECT NO.: 93130

C&S PROJECT NO.: M83.001.009

FEBRUARY 2018



PROJECT
LOCATION

LOCATION MAP

NOT TO SCALE



ADOPTED AND APPROVED BY:

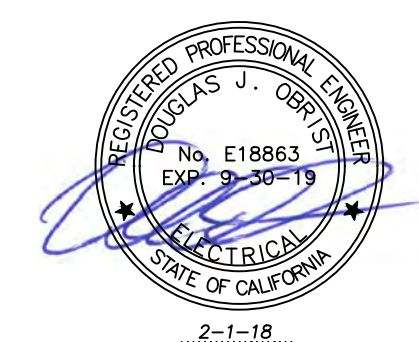
MICHAEL RANALLI
CHAIR, EL DORADO COUNTY BOARD OF SUPERVISORS

DATE

APPROVED BY:

DON ASHTON
CHIEF ADMINISTRATIVE OFFICER

DATE



GI001

1 THE CONTRACTOR'S ATTENTION IS DIRECTED TO FAA SECTION 80, ATTACHMENT A - CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) OF THE GENERAL PROVISIONS.

2 THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON RECORD DRAWINGS AND/OR CAD FILES FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THOSE UTILIZING THE INFORMATION ON THESE DRAWINGS ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY PURPOSE.

3 EXISTING UTILITIES WERE TAKEN FROM PLANS OF RECORD. THEY HAVE BEEN SHOWN TO THE EXTENT KNOWN AND ARE OFFERED IN GOOD FAITH SOLELY FOR INFORMATIONAL PURPOSES. THEY MAY NOT REFLECT ACTUAL LOCATIONS AND MAY NOT BE INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (811) A MINIMUM OF 72 HOURS PRIOR TO COMMENCING WORK.

4 THE ACTUAL LOCATION AND ELEVATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO ADVISE THE AIRPORT OF ANY DISCREPANCIES FOUND AND/OR CONFIRM IN WRITING ACTUAL LOCATIONS ARE IN GENERAL CONFORMANCE WITH DESIGN PLANS. VERIFY EXACT QUANTITY AND LAYOUT OF EXISTING LIGHT FIXTURES AND EXACT QUANTITY AND ROUTING OF EXISTING CONDUIT AND CABLES PRIOR TO BID. THE CONTRACTOR SHALL HAVE TOOLS AND CAPABLE STAFF AVAILABLE TO LOCATE CABLES AND TEST PRIOR TO EXCAVATION. THE AIRPORT WILL NOT LOCATE CABLES FOR THE CONTRACTOR.

5 IN THE EVENT OF DAMAGE TO EXISTING UTILITIES OR CABLES, THE ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY. PRIOR TO BID, VERIFY THAT ALL EXISTING CIRCUITS TO BE MODIFIED TO ACCOMMODATE NEW LIGHTING ARE FULLY OPERATIONAL AND THAT CABLE INSULATION RESISTANCE IS COMPLIANT WITH FAA REQUIREMENTS. NOTIFY ENGINEER AND OWNER IMMEDIATELY IF THEY ARE NOT.

6 THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO UTILITIES OR CABLES, AS DIRECTED BY THE ENGINEER AND OWNER, IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.

7 WITHIN 1 WEEK OF NOTICE TO PROCEED, THE CONTRACTOR SHALL PROVIDE THE ENGINEER A VIDEO TO DOCUMENT THE CONDITION OF EXISTING SERVICE ROADS, STAGING AREA AND ALL OTHER FACILITIES / ROADWAYS LOCATED WITHIN THE CONSTRUCTION LIMITS OR UTILIZED FOR CONSTRUCTION PRIOR TO CONSTRUCTION.

8 ALL AREAS DISTURBED AS A RESULT OF THE CONTRACTOR'S STAGING AND CONSTRUCTION OPERATIONS SHALL BE RESTORED TO A CONDITION EQUAL TO ORIGINAL OR AS INSTRUCTED BY OWNER AT THE CONTRACTOR'S EXPENSE.

9 DURING THE WORK OF THIS CONTRACT, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN WHATEVER TEMPORARY POWER AND LIGHTING MAY BE NECESSARY TO KEEP THE RUNWAY AND TAXIWAYS IN OPERATING CONDITION WHEN OPEN FOR AIRCRAFT.

10 ALL DIRT, DUST, STONES AND LOOSE DEBRIS SHALL BE CONTINUOUSLY REMOVED FROM ALL ACTIVE SURFACES FOR AIRCRAFT OPERATIONS PAVED SURFACES DURING THIS CONTRACT OR AS DIRECTED BY THE AIRPORT.

11 THE CONTRACTOR SHALL REPAIR AND MAINTAIN EXISTING ACCESS ROADS AS REQUIRED FOR ACCESS TO THE WORK AREAS. ACCESS ROADS SHALL BE LEFT IN THE SAME CONDITION OR AS DIRECTED BY THE AIRPORT AT COMPLETION OF CONSTRUCTION AT CONTRACTOR'S EXPENSE.

12 ALL OF THE CONTRACTOR'S OPERATIONS SHALL REMAIN ON AIRPORT PROPERTY AT ALL TIMES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED ON ADJACENT PROPERTY OR ALLOWED ON PUBLIC ROADS WITHOUT APPROPRIATE APPROVAL.

13 THIS CONTRACT DOES NOT ALLOW FOR PRICE INCREASES DUE TO ESCALATION IN COST OF UNIT BID ITEMS. THE CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION WHEN PREPARING UNIT PRICES FOR BID.

14 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS FOR THE PROPOSED WORK INDICATED ON THE DRAWINGS.

15 WHERE A NEW CONDUIT CROSSES AN EXISTING UTILITY, PIPE, OR CABLE, THE CONTRACTOR SHALL DETERMINE BY HAND EXCAVATING THE EXACT LOCATION AND ELEVATION OF THE EXISTING UTILITY PRIOR TO EXCAVATION.

16 CONTRACTOR SHALL RECORD THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES AND PROVIDE AS-BUILT DRAWINGS. CONTRACTOR SHALL PROVIDE HARD COPIES AND AN ELECTRONIC COPY IN CAD OF ALL AS-BUILT DRAWINGS.

17 ALL ELECTRICAL AND LOCK OUT / TAG OUT WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE AND NATIONAL ELECTRICAL CODES.

18 THE ELECTRICAL CHARACTERISTICS OF PROPOSED EQUIPMENT SHALL BE VERIFIED TO BE COMPATIBLE WITH EXISTING EQUIPMENT PRIOR TO INSTALLATION.

19 ABANDONED CABLES MAY EXIST IN THE VICINITY OF THE PROPOSED WORK. IF ENCOUNTERED, CONTRACTOR SHALL VERIFY THAT THEY ARE ABANDONED PRIOR TO REMOVAL. IF THEY ARE NOT ABANDONED, CABLES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

20 DRILL AND TAP ALL BOLTS DAMAGED DURING REMOVAL OF LIGHTS, BASE PLATES AND OTHER ELECTRICAL COMPONENTS FOR DEMOLITION.

21 ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE DIRECTIONS.

22 ALL GROUND CONNECTIONS SHALL BE MADE USING EXOTHERMIC CONNECTIONS.

23 GROUND RODS SHALL BE INSTALLED AT 500-FT INTERVALS ALONG COUNTERPOISE WIRE.

24 ALL CABLE CONNECTIONS SHALL BE MADE AT LIGHT UNITS, JUNCTION CANS, MANHOLES OR OTHER ACCESS POINTS.

25 ALL ELECTRICAL EQUIPMENT REMOVED WHICH IS DESIRED BY THE OWNER TO BE SALVAGED SHALL BE TURNED OVER TO THE OWNER. THE EQUIPMENT SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE OWNER IN PROPER WORKING CONDITION. ALL OTHER MATERIALS SHALL BE SPOILED OFF AIRPORT PROPERTY AT A PROPER DISPOSAL SITE AT THE CONTRACTOR'S EXPENSE.

26 ALL TAXIWAY EDGE LIGHTS SHALL BE LOCATED 10 FEET OFF THE DEFINED RUNWAY OR TAXIWAY EDGE OR END UNLESS OTHERWISE NOTED OR DIRECTED. THE CONTRACTOR SHALL ALIGN ALL LIGHTS ON TANGENT SECTIONS SUCH THAT THEY FORM A STRAIGHT LINE.

27 THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE PROVISIONS FOR FAA OWNED FACILITIES. THESE PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, NEC, FAA-STD-019E "LIGHTNING PROTECTION, GROUNDING, BONDING, AND SHIELDING REQUIREMENTS FOR FACILITIES" AND FAA-C-1391C "INSTALLATION AND SPLICING OF UNDERGROUND CABLES", LATEST EDITIONS.

28 UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS AND LICENSES, CONTRACTOR SHALL COORDINATE ALL PERMITS WITH THE OWNER PRIOR TO CONTACTING OTHER PARTIES. ALL ELECTRICAL WORK SHALL BE COMPLIANT WITH CALIFORNIA TITLE 24.

C1 NOT USED

SCALE: NOT TO SCALE

SHEET INDEX

| SHEET REFERENCE NO. | TITLE |
|---------------------|--|
| GI001 | COVER |
| GI002 | LEGEND, GENERAL NOTES, AND SHEET INDEX |
| GI101 | GENERAL PLAN AND SURVEY CONTROL |
| GC101 | CONSTRUCTION SAFETY PHASING PLAN AND DETAILS |
| ED101 | DEMOLITION PLAN |
| ED102 | DEMOLITION PLAN |
| ED103 | DEMOLITION PLAN |
| EL100 | OVERALL ELECTRICAL LAYOUT |
| EL101 | ELECTRICAL PLAN |
| EL102 | ELECTRICAL PLAN |
| EL103 | ELECTRICAL PLAN |
| EL501 | ELECTRICAL DETAILS |

| | |
|--|--|
| | KEYED NOTE REFERENCE |
| | EXISTING RUNWAY OR TAXIWAY EDGE LIGHT |
| | EXISTING LIGHT TO BE REMOVED |
| | EXISTING ELECTRICAL STRUCTURE |
| | EXISTING DIRECT-BURIED AIRFIELD LIGHTING CABLE |
| | EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN. |
| | PROPOSED TAXIWAY EDGE LIGHT. |
| | PROPOSED AIRFIELD LIGHTING CABLE IN CONDUIT. |
| | PROPOSED ONE 5kV #8 AWG TYPE C CABLE IN 2" PVC CONDUIT. |
| | PROPOSED TWO 5kV #8 AWG TYPE C CABLES IN 2" PVC CONDUIT. |
| | DEMOLITION OF EXISTING DIRECT-BURIED AIRFIELD LIGHTING CABLE |

B1 SHEET INDEX

SCALE: NOT TO SCALE

B2 LEGEND

SCALE: NOT TO SCALE

| | |
|-----------------------------|---|
| ABAN. - ABANDONED | PAVT. - PAVEMENT |
| AP - ANGLE POINT | PC - POINT OF CURVATURE |
| APPROX. - APPROXIMATE | PCC - PORTLAND CEMENT CONCRETE PAVEMENT |
| ASPH. - ASPHALT | PI - POINT OF INTERSECTION |
| B - BASELINE | P - PROPERTY LINE |
| BLDG. - BUILDING | PT - POINT OF TANGENCY |
| BM - BENCH MARK | PVI - POINT OF VERTICAL INTERSECTION |
| C - CENTERLINE | PVC - POINT OF CURVATURE (VERTICAL CURVE) |
| CIP - CAST IRON PIPE | PVC - POLYVINYL CHLORIDE PIPE |
| CMP - CORRUGATED METAL PIPE | PVT - POINT OF TANGENCY (VERTICAL CURVE) |
| ABAN. - CONCRETE | R - RADIUS |
| CP - CONTROL POINT | RCP - REINFORCED CONCRETE PIPE |
| CSP - CORRUGATED STEEL PIPE | RGS - RIGID GALVANIZED STEEL |
| DIA. - DIAMETER | ROFA - RUNWAY OBJECT FREE AREA |
| ELEV. - ELEVATION | RSA - RUNWAY SAFETY AREA |
| EMH - ELECTRICAL MANHOLE | ROW - RIGHT OF WAY |
| FND. - FOUNDATION | RPZ - RUNWAY PROTECTION ZONE |
| HP - HIGH POINT | RT - RIGHT |
| INV. - INVERT | LT - LEFT |
| LP - LOW POINT | M&P - MAINTAIN AND PROTECT |
| M&P - MAINTAIN AND PROTECT | MAX. - MAXIMUM |
| MAX. - MAXIMUM | MIN. - MINIMUM |
| MIN. - MINIMUM | MISC. - MISCELLANEOUS |
| MISC. - MISCELLANEOUS | NA - NOT APPLICABLE |
| NA - NOT APPLICABLE | OFA - OBJECT FREE AREA |
| OFA - OBJECT FREE AREA | O.C. - ON CENTER |
| O.C. - ON CENTER | O/S - OFFSET |
| O/S - OFFSET | |

A1 NOT USED

SCALE: NOT TO SCALE

A2 ABBREVIATIONS

SCALE: NOT TO SCALE

A3 GENERAL NOTES

SCALE: NOT TO SCALE



C&S Engineers, Inc.
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Sacramento, California 95826
Phone: 916-364-1470
www.cscos.com



**TAXIWAY EDGE LIGHTS PROJECT
PLACERVILLE AIRPORT**

**EL DORADO COUNTY
PLACERVILLE, CALIFORNIA**

| MARK | DATE | DESCRIPTION |
|--------------------------|------|-------------|
| REVISIONS | | |
| PROJECT NO: M83.001.009 | | |
| DATE: JANUARY 2018 | | |
| DRAWN BY: M. C. MORALES | | |
| DESIGNED BY: A. C. JAMES | | |
| CHECKED BY: N. I. YOUNG | | |

**LEGEND,
GENERAL NOTES,
AND SHEET INDEX**

GI002

Feb 01, 2018 - 3:27pm
P:\Project\M83 - El Dorado County\M8301.009 - Placerville Taxiway Lighting Design\CADD\Sheet Files\M8301.009-2_GI002_Layout.dwg
B1 Sheet Index.dwg



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**TAXIWAY EDGE LIGHTS PROJECT
 PLACERVILLE AIRPORT
 EL DORADO COUNTY
 PLACERVILLE, CALIFORNIA**

Feb. 01, 2018 - 5:27pm P:\Project\M83 - El Dorado County\M8301.009 - Placerville Taxiway Lights\Design\CADD\Sheet Files\M8301.009_3_G101_General Plan and Survey Control_1-31-17.dwg

| MARK | DATE | DESCRIPTION |
|--------------------------|------|-------------|
| REVISIONS | | |
| PROJECT NO: M83.001.009 | | |
| DATE: JANUARY 2018 | | |
| DRAWN BY: M. C. MORALES | | |
| DESIGNED BY: N. I. YOUNG | | |
| CHECKED BY: N. I. YOUNG | | |

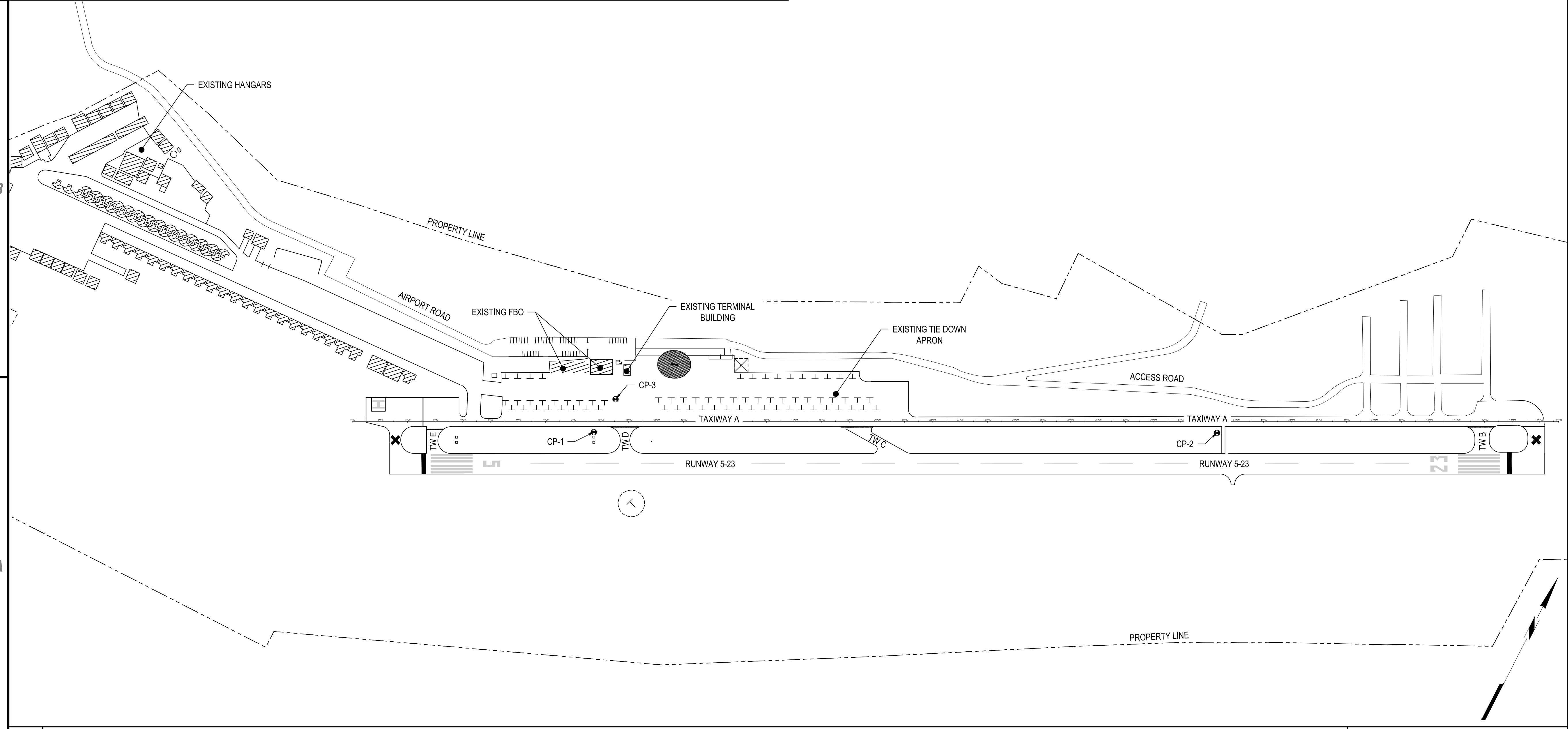
**GENERAL PLAN
 AND
 SURVEY CONTROL**

G101

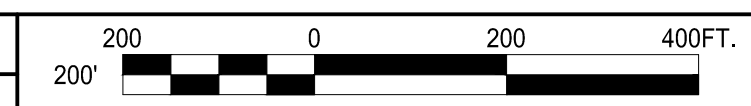
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|-----|------------|------------|-------------|-------------|
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| CP2 | 2028536.85 | 6918076.43 | 2583.23 | PVFB |
| CP3 | 2027625.29 | 6916095.03 | 2582.89 | D4 |

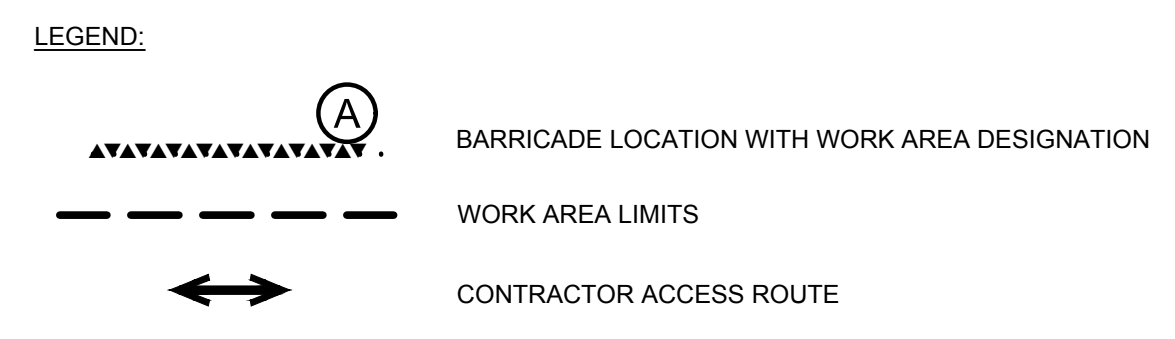
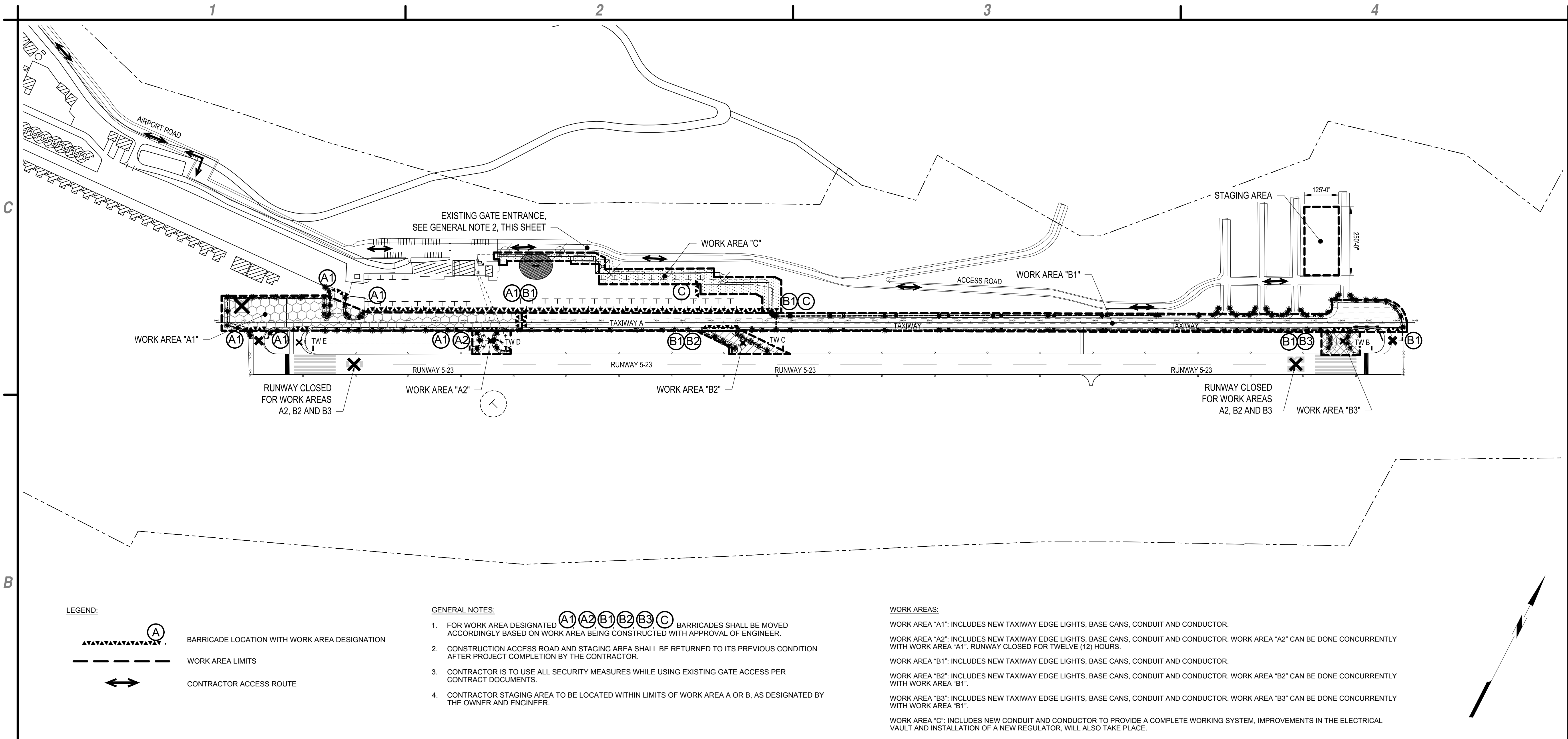
NOTE:
 CONTRACTOR SHALL PROTECT ALL CONTROL POINTS. IF DISTURBED, MINIMUM CHARGE FOR REPLACEMENT SHALL BE \$10,000 PER POINT LOCATION
 SURVEY WAS PERFORMED BY CLEAR PATH LAND EVOLVEMENT INC, DECEMBER 2016.

C1 SURVEY CONTROL
 SCALE: NOT TO SCALE



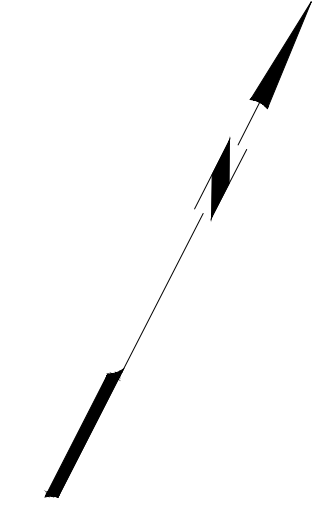
A1 GENERAL PLAN
 SCALE: 1" = 200'



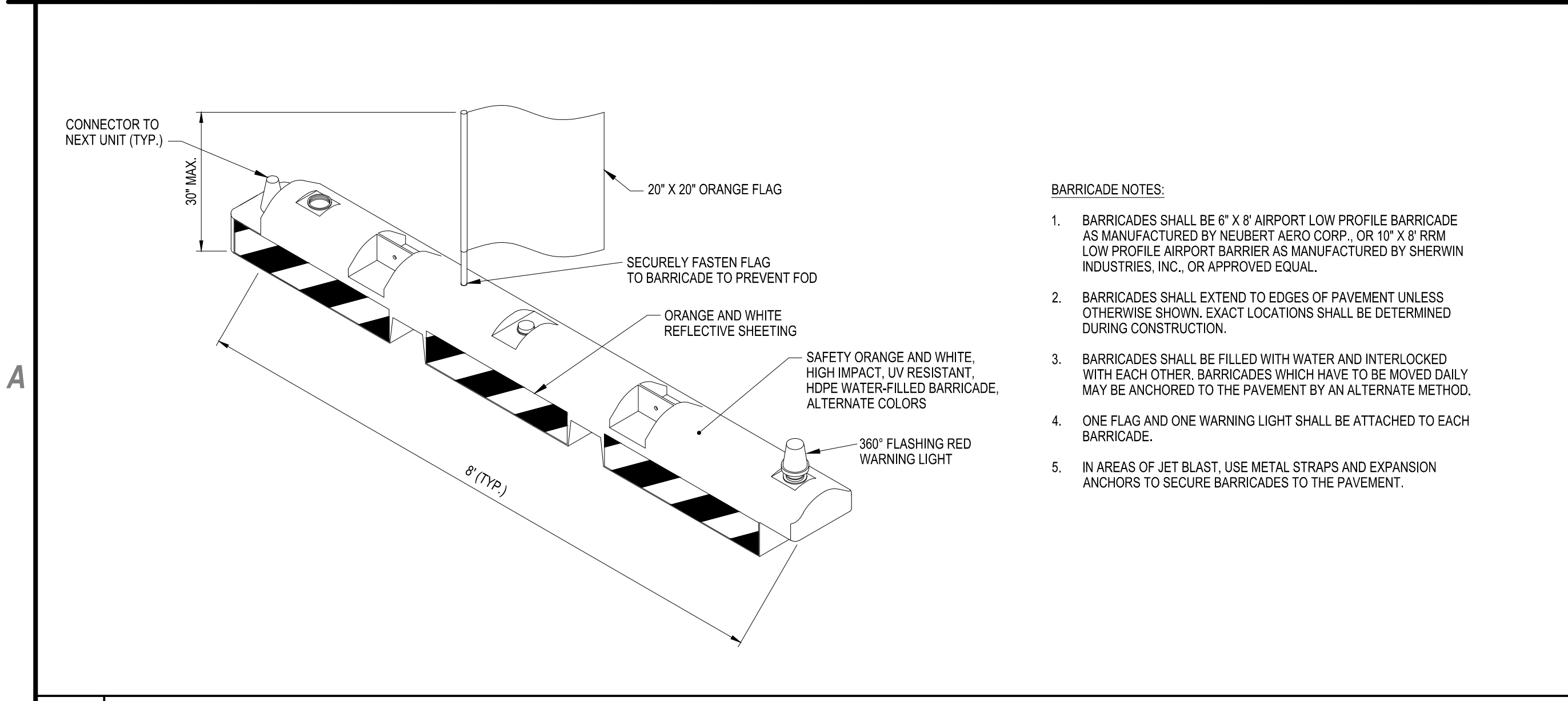
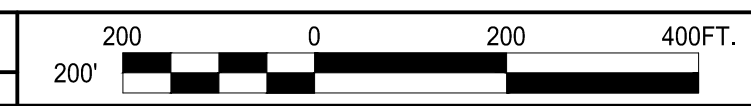


- GENERAL NOTES:**
- FOR WORK AREA DESIGNATED **(A1) (A2) (B1) (B2) (B3) (C)** BARRICADES SHALL BE MOVED ACCORDINGLY BASED ON WORK AREA BEING CONSTRUCTED WITH APPROVAL OF ENGINEER.
 - CONSTRUCTION ACCESS ROAD AND STAGING AREA SHALL BE RETURNED TO ITS PREVIOUS CONDITION AFTER PROJECT COMPLETION BY THE CONTRACTOR.
 - CONTRACTOR IS TO USE ALL SECURITY MEASURES WHILE USING EXISTING GATE ACCESS PER CONTRACT DOCUMENTS.
 - CONTRACTOR STAGING AREA TO BE LOCATED WITHIN LIMITS OF WORK AREA A OR B, AS DESIGNATED BY THE OWNER AND ENGINEER.

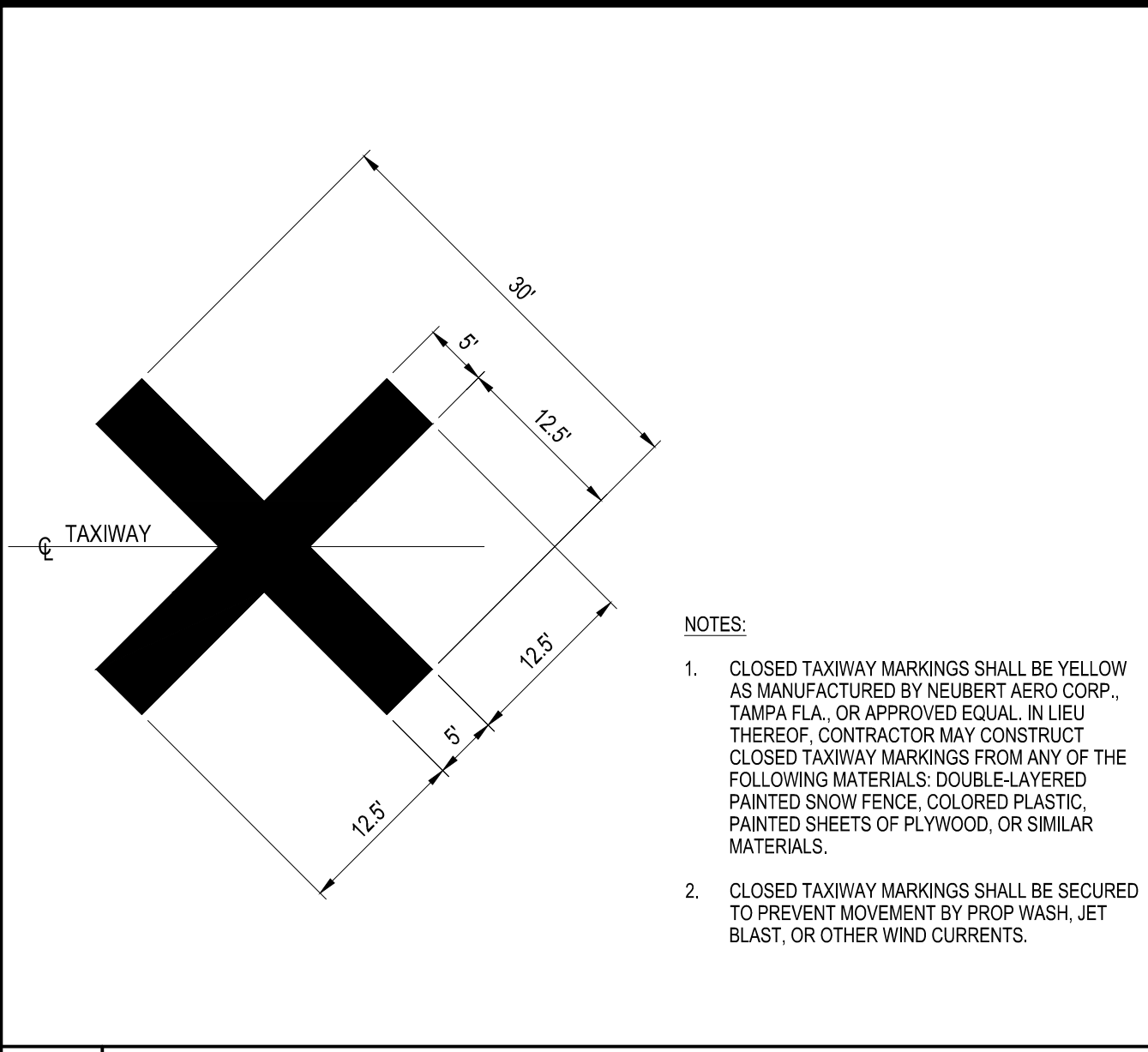
- WORK AREAS:**
- WORK AREA "A1": INCLUDES NEW TAXIWAY EDGE LIGHTS, BASE CANS, CONDUIT AND CONDUCTOR.
 - WORK AREA "A2": INCLUDES NEW TAXIWAY EDGE LIGHTS, BASE CANS, CONDUIT AND CONDUCTOR. WORK AREA "A2" CAN BE DONE CONCURRENTLY WITH WORK AREA "A1". RUNWAY CLOSED FOR TWELVE (12) HOURS.
 - WORK AREA "B1": INCLUDES NEW TAXIWAY EDGE LIGHTS, BASE CANS, CONDUIT AND CONDUCTOR.
 - WORK AREA "B2": INCLUDES NEW TAXIWAY EDGE LIGHTS, BASE CANS, CONDUIT AND CONDUCTOR. WORK AREA "B2" CAN BE DONE CONCURRENTLY WITH WORK AREA "B1".
 - WORK AREA "B3": INCLUDES NEW TAXIWAY EDGE LIGHTS, BASE CANS, CONDUIT AND CONDUCTOR. WORK AREA "B3" CAN BE DONE CONCURRENTLY WITH WORK AREA "B1".
 - WORK AREA "C": INCLUDES NEW CONDUIT AND CONDUCTOR TO PROVIDE A COMPLETE WORKING SYSTEM, IMPROVEMENTS IN THE ELECTRICAL VAULT AND INSTALLATION OF A NEW REGULATOR, WILL ALSO TAKE PLACE.



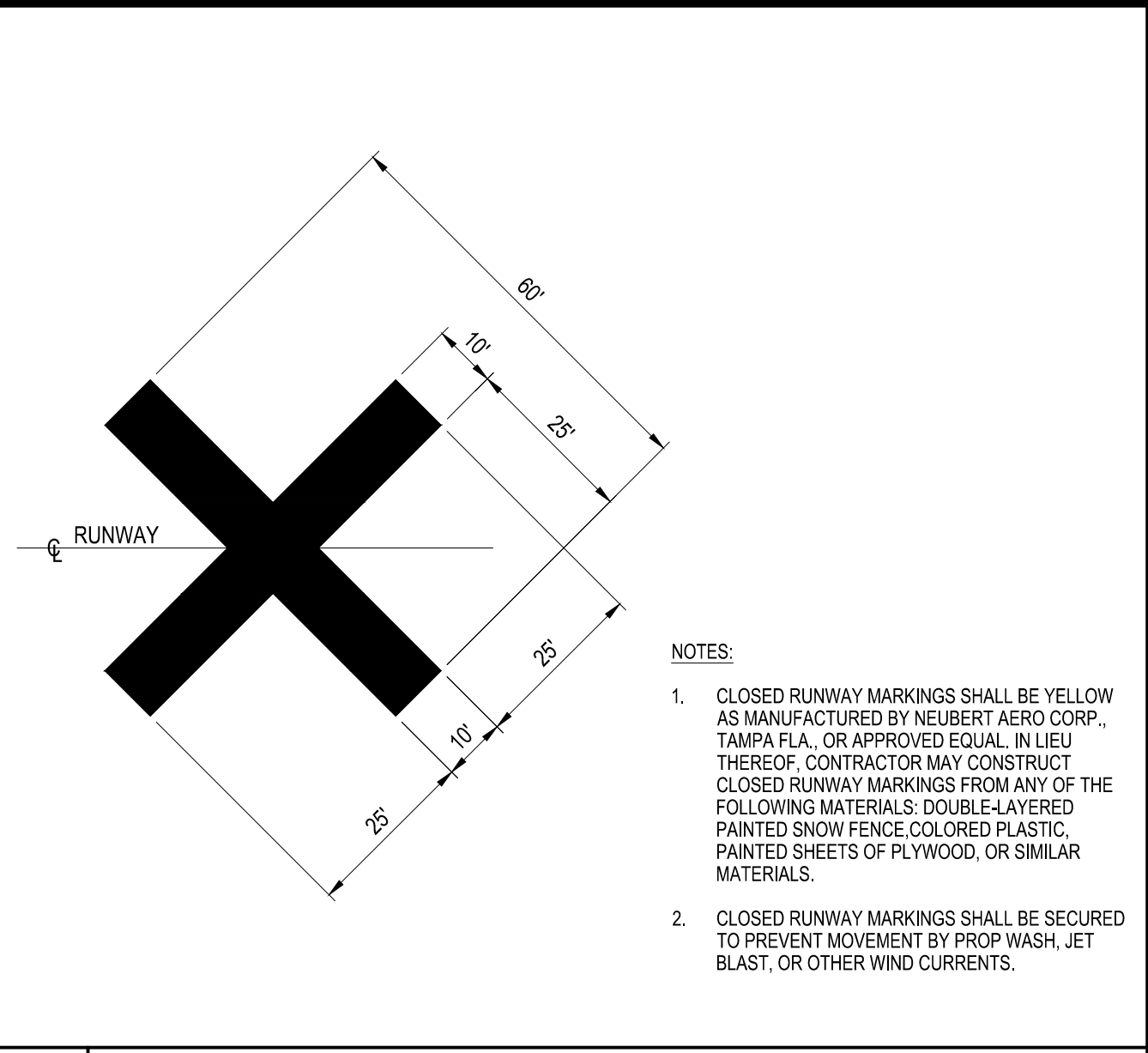
A1 CONSTRUCTION SAFETY PHASING PLAN
SCALE: 1" = 200'



A1 INTERLOCKING BARRICADE DETAIL
SCALE: NOT TO SCALE



A3 CLOSED TAXIWAY MARKING DETAIL
SCALE: NOT TO SCALE



A4 CLOSED RUNWAY MARKING DETAIL
SCALE: NOT TO SCALE



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**TAXIWAY EDGE LIGHTS PROJECT
PLACERVILLE AIRPORT
EL DORADO COUNTY
PLACERVILLE, CALIFORNIA**

Feb-01, 2018 - 5:27pm P:\Project\M8301.009 - El Dorado County\M8301.009 - Placerville Taxiway Lighting Design\CADD\Sheet Files\M8301.009-4-GC101_CSP.dwg

| MARK | DATE | DESCRIPTION |
|--------------------------|------|-------------|
| REVISIONS | | |
| PROJECT NO: M83.001.009 | | |
| DATE: JANUARY 2018 | | |
| DRAWN BY: G. TOKMAKOV | | |
| DESIGNED BY: G. TOKMAKOV | | |
| CHECKED BY: N.I. YOUNG | | |

**CONSTRUCTION
SAFETY
PHASING
PLAN AND
DETAILS**

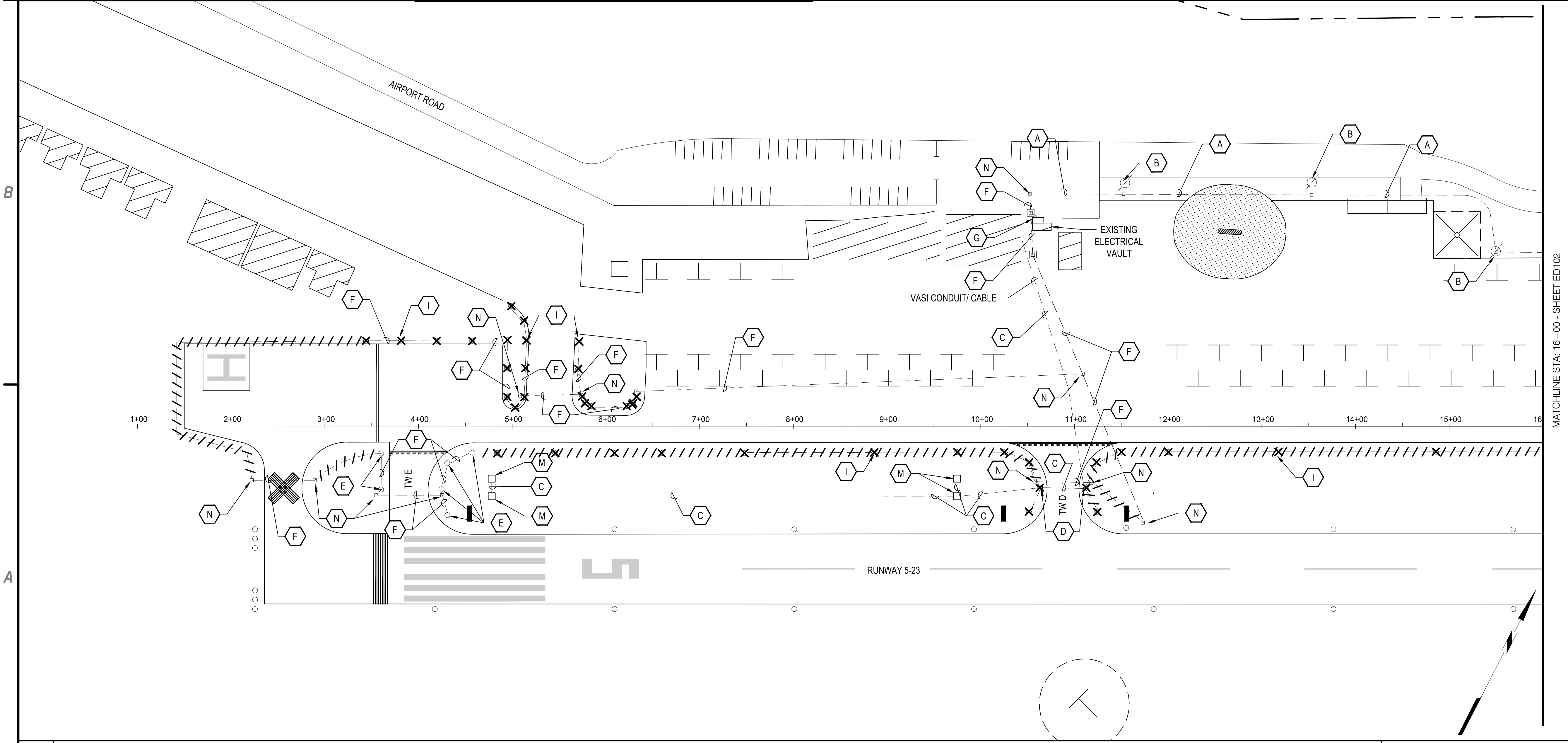
GC101

- A** CONDUIT AND CABLES ARE EXISTING TO REMAIN, INCLUDING ANY AIRFIELD LIGHTING CABLE PRESENT IN THIS CONDUIT.
- B** EXISTING POLE MOUNTED LIGHTING TO REMAIN.
- C** EXISTING VASI CONDUIT AND CABLE TO REMAIN. PROTECT IN PLACE.
- D** EXISTING VASI PULLBOX TO REMAIN, FAA-OWNED. PROTECT IN PLACE.
- E** EXISTING LED TAXIWAY EDGE LIGHT TO REMAIN. PROTECT IN PLACE.
- F** EXISTING TAXIWAY EDGE LIGHT CONDUIT OR DUCT BANK TO REMAIN. PROTECT IN PLACE. REMOVE EXISTING TAXIWAY EDGE LIGHTING CIRCUIT CABLE. THIS WORK IS PAID FOR UNDER ITEM L-108.
- G** REMOVE EXISTING 7.5KW TAXIWAY EDGE LIGHTING CONSTANT CURRENT REGULATOR FROM VAULT. REMOVE ALL EXISTING TAXIWAY EDGE LIGHT CIRCUIT AIRFIELD LIGHTING CABLE FROM REGULATOR TO NEAREST EXISTING ELECTRICAL STRUCTURE OUTSIDE VAULT. REMOVE EXISTING 600V CABLE AND CONDUIT SERVING BETWEEN VAULT POWER PANEL AND REGULATOR. REMOVE EXISTING 50A, 2-POLE BREAKER THAT SERVES THIS REGULATOR FROM VAULT POWER PANEL. THIS WORK IS PAID FOR ON A LUMP-SUM BASIS UNDER ITEM L-109.
- I** REMOVE EXISTING STAKE-MOUNTED TAXIWAY EDGE LIGHT. (TYP.)
- M** EXISTING VASI UNIT TO REMAIN, FAA-OWNED. PROTECT IN PLACE.
- N** EXISTING HANDHOLES OR JUNCTION BOXES TO REMAIN. PROTECT IN PLACE.

1. UNLESS OTHERWISE NOTED, ALL EXISTING TAXIWAY EDGE LIGHTS (INCLUDING BASE CANS) AND TAXIWAY EDGE LIGHT AIRFIELD LIGHTING CIRCUIT CABLE AND CONDUIT ARE TO BE REMOVED. THIS WORK IS PAID FOR UNDER ITEMS L-108 AND L-125.
2. UNLESS OTHERWISE NOTED, ALL EXISTING RUNWAY EDGE AND THRESHOLD LIGHTS AND RUNWAY EDGE LIGHT AIRFIELD LIGHTING CIRCUIT CABLE ARE TO REMAIN. PROTECT IN PLACE.
3. ALL EXISTING VASI UNITS, VASI CONDUIT AND CABLES ARE TO REMAIN OPERATIONAL AT ALL TIMES.
4. ALL EXISTING AIRFIELD GUIDANCE SIGNS TO REMAIN. PROTECT IN PLACE.

C1 KEY NOTES
SCALE: NOT TO SCALE

C2 NOTES
SCALE: NOT TO SCALE



A1 DEMOLITION PLAN
SCALE: 1" = 60'



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DEMOLITION PLAN

ED101

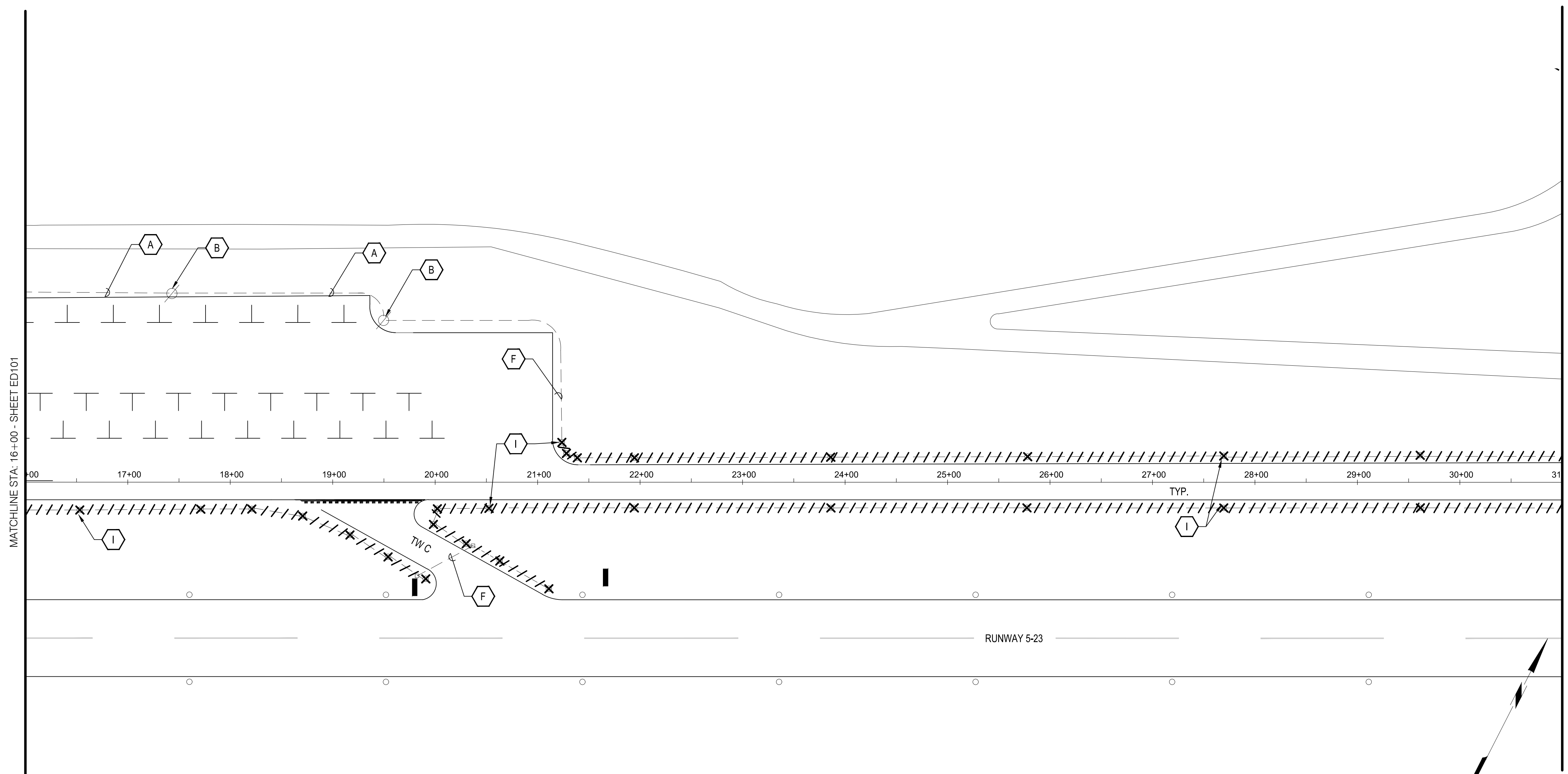
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- A** CONDUIT AND CABLES ARE EXISTING TO REMAIN, INCLUDING ANY AIRFIELD LIGHTING CABLE PRESENT IN THIS CONDUIT.
- B** EXISTING POLE MOUNTED LIGHTING TO REMAIN.
- F** EXISTING TAXIWAY EDGE LIGHT CONDUIT OR DUCT BANK TO REMAIN. PROTECT IN PLACE. REMOVE EXISTING TAXIWAY EDGE LIGHTING CIRCUIT CABLE. THIS WORK IS PAID FOR UNDER ITEM L-108.
- I** REMOVE EXISTING STAKE-MOUNTED TAXIWAY EDGE LIGHT. (TYP.)

1. UNLESS OTHERWISE NOTED, ALL EXISTING TAXIWAY EDGE LIGHTS (INCLUDING BASE CANS) AND TAXIWAY EDGE LIGHT AIRFIELD LIGHTING CIRCUIT CABLE AND CONDUIT ARE TO BE REMOVED. THIS WORK IS PAID FOR UNDER ITEMS L-108 AND L-125.
2. UNLESS OTHERWISE NOTED, ALL EXISTING RUNWAY EDGE AND THRESHOLD LIGHTS AND RUNWAY EDGE LIGHT AIRFIELD LIGHTING CIRCUIT CABLE ARE TO REMAIN. PROTECT IN PLACE.
3. ALL EXISTING VASI UNITS, VASI CONDUIT AND CABLES ARE TO REMAIN OPERATIONAL AT ALL TIMES.
4. ALL EXISTING AIRFIELD GUIDANCE SIGNS TO REMAIN. PROTECT IN PLACE.

C1 KEY NOTES
SCALE: NOT TO SCALE

C2 NOTES
SCALE: NOT TO SCALE



A1 DEMOLITION PLAN
SCALE: 1" = 60'



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| DESIGNED BY: A. C. JAMES | | |
| CHECKED BY: N. I. YOUNG | | |

DEMOLITION PLAN

ED102

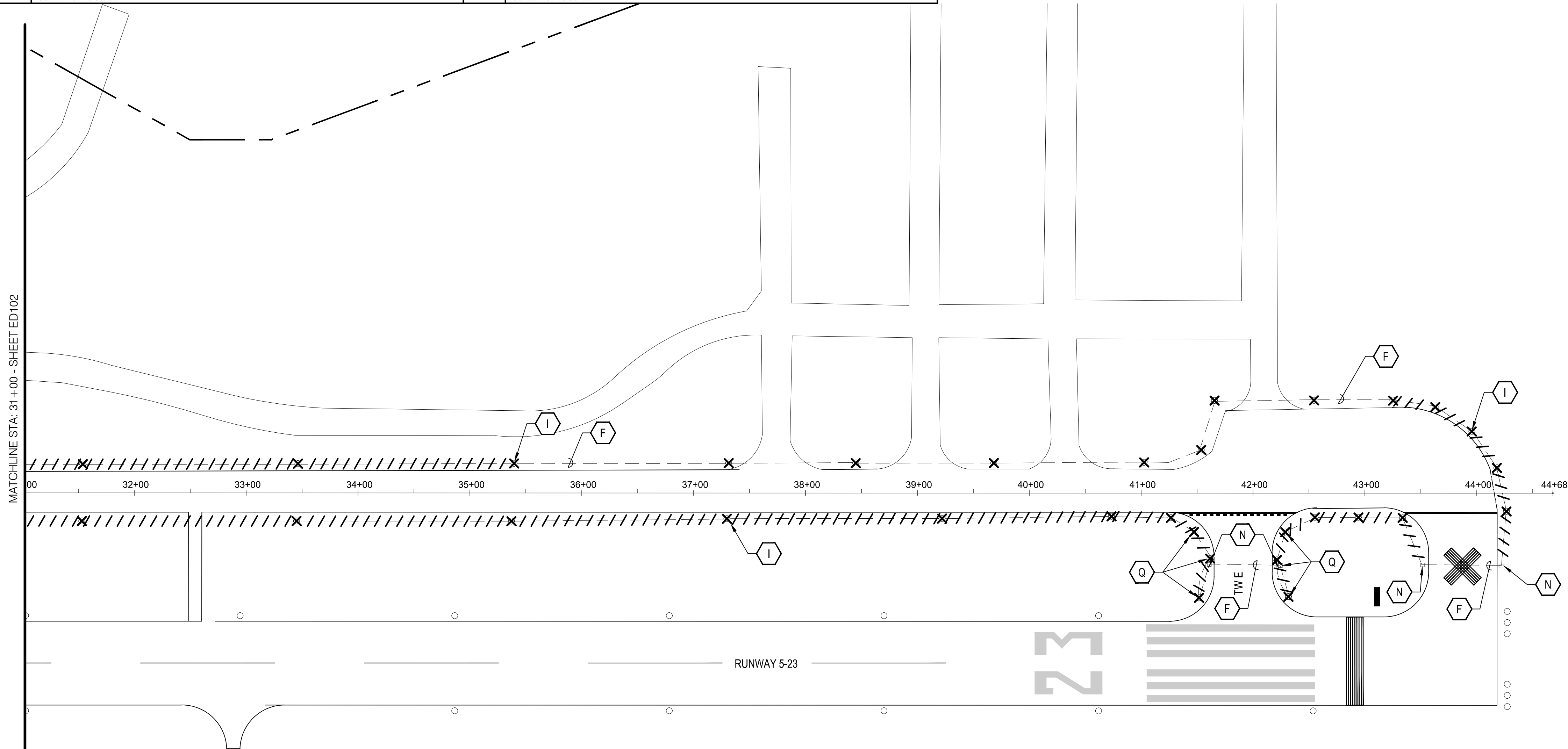
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- I** REMOVE EXISTING STAKE-MOUNTED TAXIWAY EDGE LIGHT. (TYP.)
- F** EXISTING TAXIWAY EDGE LIGHT CONDUIT OR DUCT BANK TO REMAIN. PROTECT IN PLACE. REMOVE EXISTING TAXIWAY EDGE LIGHTING CIRCUIT CABLE. THIS WORK IS PAID FOR UNDER ITEM L-108.
- N** EXISTING HANDHOLES OR JUNCTION BOXES TO REMAIN. PROTECT IN PLACE.
- Q** REMOVE EXISTING LED TAXIWAY EDGE LIGHT AND TURN OVER TO OWNER.

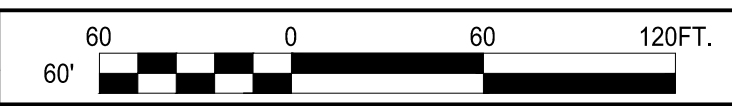
1. UNLESS OTHERWISE NOTED, ALL EXISTING TAXIWAY EDGE LIGHTS (INCLUDING BASE CANS) AND TAXIWAY EDGE LIGHT AIRFIELD LIGHTING CIRCUIT CABLE AND CONDUIT ARE TO BE REMOVED. THIS WORK IS PAID FOR UNDER ITEMS L-108 AND L-125.
2. UNLESS OTHERWISE NOTED, ALL EXISTING RUNWAY EDGE AND THRESHOLD LIGHTS AND RUNWAY EDGE LIGHT AIRFIELD LIGHTING CIRCUIT CABLE ARE TO REMAIN. PROTECT IN PLACE.
3. ALL EXISTING VASI UNITS, VASI CONDUIT AND CABLES ARE TO REMAIN OPERATIONAL AT ALL TIMES.
4. ALL EXISTING AIRFIELD GUIDANCE SIGNS TO REMAIN. PROTECT IN PLACE.

C1 KEY NOTES
SCALE: NOT TO SCALE

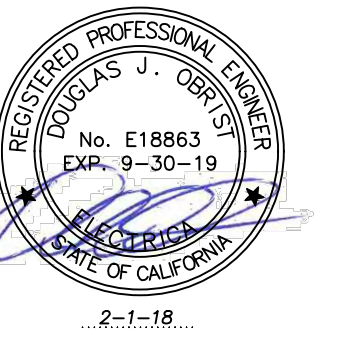
C2 NOTES
SCALE: NOT TO SCALE



A1 DEMOLITION PLAN
SCALE: 1" = 60'



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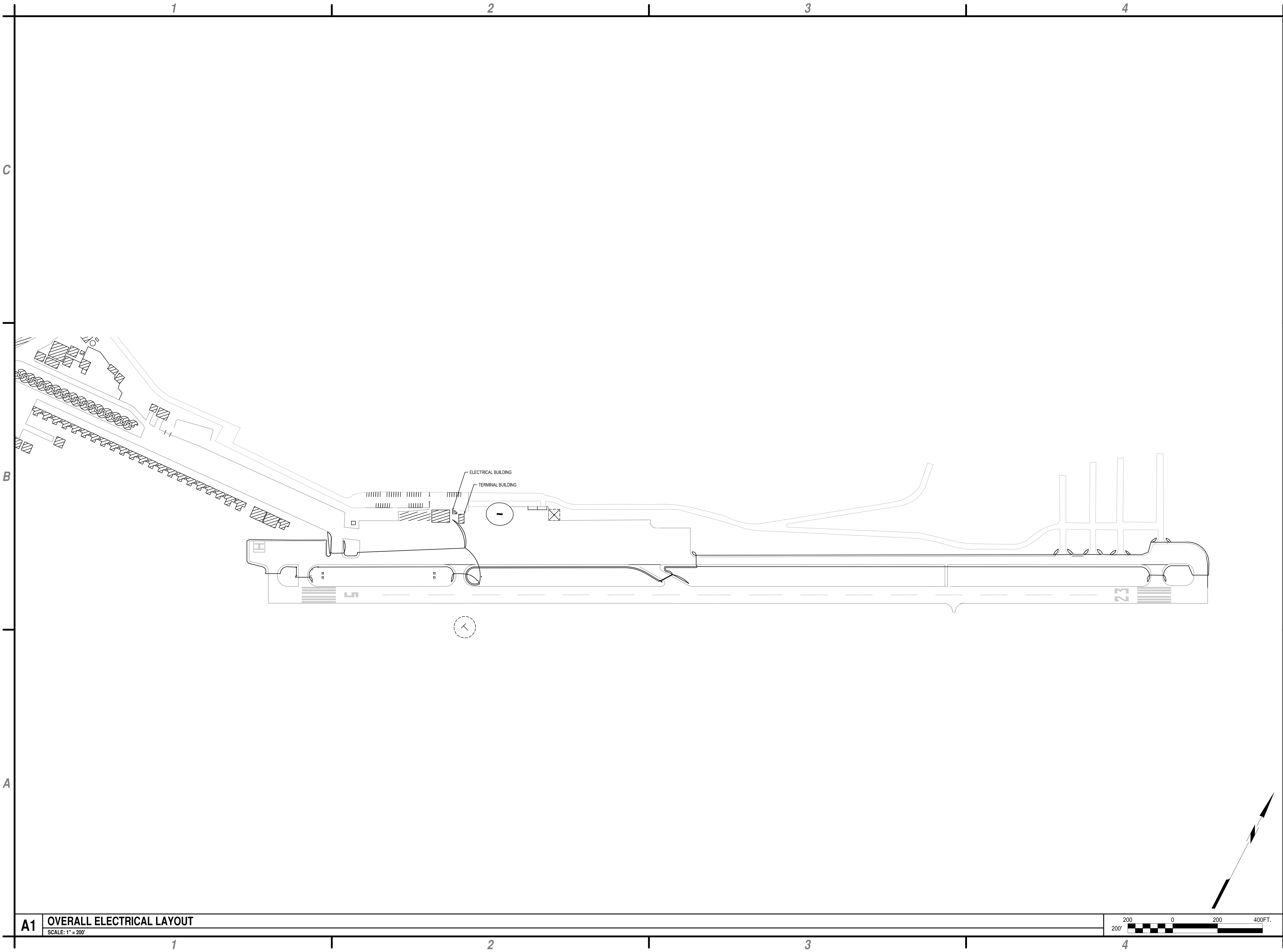
**TAXIWAY EDGE LIGHTS PROJECT
PLACERVILLE AIRPORT
EL DORADO COUNTY
PLACERVILLE, CALIFORNIA**

| MARK | DATE | DESCRIPTION |
|--------------------------|------|-------------|
| REVISIONS | | |
| PROJECT NO: M83.001.009 | | |
| DATE: JANUARY 2018 | | |
| DRAWN BY: M. C. MORALES | | |
| DESIGNED BY: A. C. JAMES | | |
| CHECKED BY: N. I. YOUNG | | |

DEMOLITION PLAN

ED103

Feb 01, 2018 - 5:28pm P:\Project\M83 - El Dorado County\M8301.009 - Placerville Taxiway Lighting\Design\CADD\Sheet Files\M8301.009_5_ED103_Demo_Plans.dwg



A1 OVERALL ELECTRICAL LAYOUT
SCALE: 1" = 200'



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| CHECKED BY: A. C. JAMES | | |

**OVERALL
ELECTRICAL
LAYOUT**

EL100

Feb. 01, 2018 - 5:28pm P:\Project\M83 - El Dorado County\M8301.009 - Placerville Taxiway Lighting Design\CADD\Sheet Files\M8301.009_6_El.101-EL101-Proposed_Plans.dwg

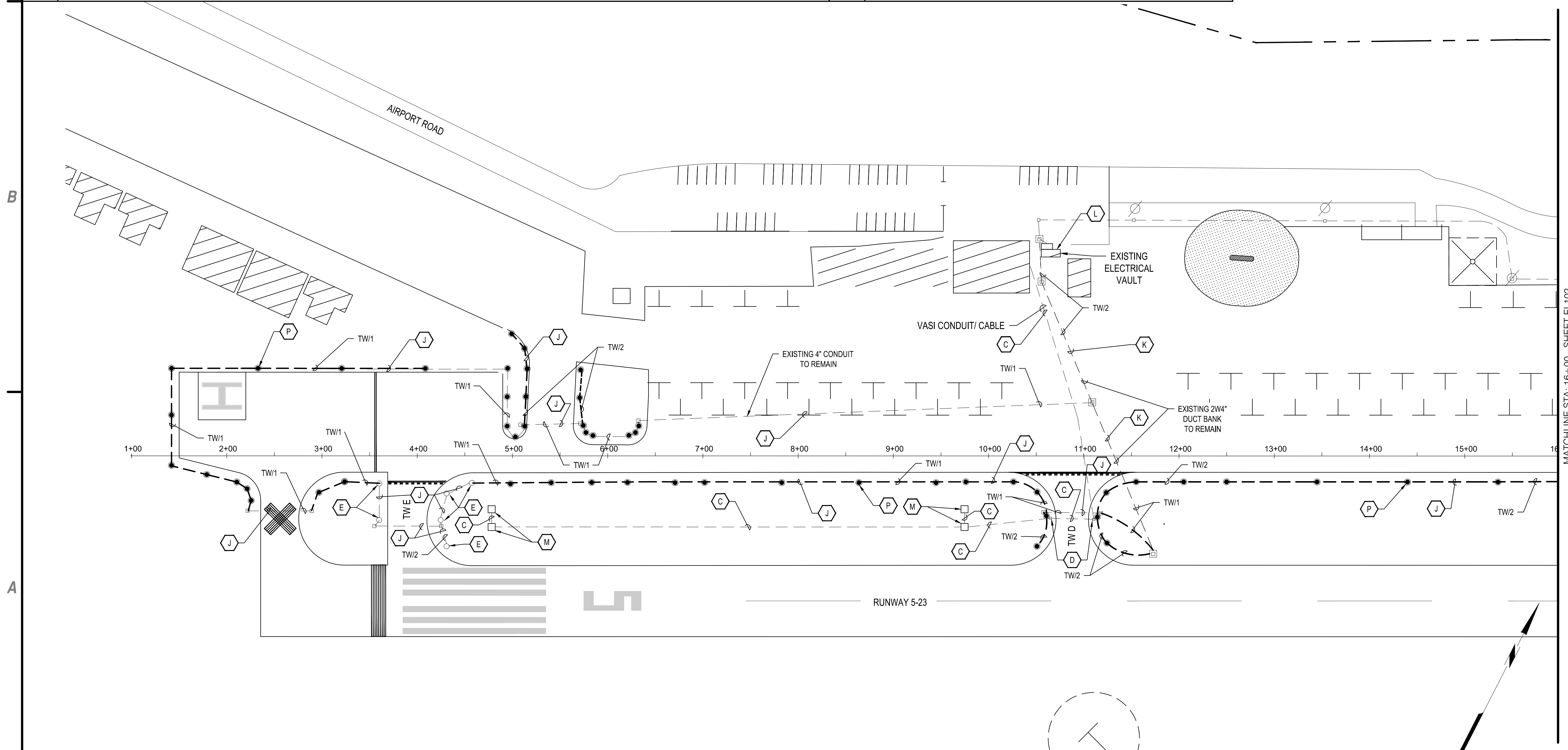
- C** EXISTING VASI CONDUIT AND CABLE TO REMAIN.
- D** EXISTING VASI PULLBOX TO REMAIN, FAA-OWNED. PROTECT IN PLACE.
- E** EXISTING LED TAXIWAY EDGE LIGHT TO REMAIN. PROTECT IN PLACE.
- L** PROVIDE 7.5KW FERRORESONANT-TYPE CONSTANT CURRENT REGULATOR IN EXISTING VAULT, TO SERVE TAXIWAY EDGE LIGHTING CIRCUIT. MOUNT IN THE SAME LOCATION AS THE REGULATOR REMOVED AS INSTRUCTED ON SHEET ED-101. REGULATOR BASIS OF DESIGN SHALL BE ADB CCT66073100 OR APPROVED EQUAL. PROVIDE TWO #6 AWG AND ONE #10 AWG 600V TYPE THHN CABLE IN 3/4" EMT CONDUIT FROM REGULATOR TO EXISTING VAULT POWER PANEL. PROVIDE 50A, 2-POLE CIRCUIT BREAKER IN EXISTING VAULT POWER PANEL TO SERVE THIS REGULATOR. BREAKER SHALL BE UL-LISTED FOR USE IN EXISTING PANEL. MAINTAIN PANEL SHORT CIRCUIT RATING. PROVIDE #8 AWG, 5KV TYPE-C AIRFIELD LIGHTING CABLE (TW/2) FROM REGULATOR TO NEAREST EXISTING ELECTRICAL STRUCTURE OUTSIDE VAULT (REUSE EXISTING RACEWAYS). THIS WORK IS PAID FOR UNDER ITEMS L-108 AND L-109.
- M** EXISTING VASI UNIT TO REMAIN, FAA-OWNED. PROTECT IN PLACE.

- J** PROVIDE #8 AWG 5-KV TYPE C AIRFIELD LIGHTING CABLE IN 2" PVC CONDUIT (OR EXISTING CONDUIT). REFER TO B2/EL501 FOR DETAIL. THIS WORK IS PAID FOR UNDER ITEM L-108 AND L-110.
- K** PROVIDE #8 AWG 5-KV TYPE C AIRFIELD LIGHTING CABLE IN EXISTING DUCT BANK AS INDICATED. THIS WORK IS PAID FOR UNDER ITEM L-108.
- P** PROVIDE MEDIUM-INTENSITY, BASE-MOUNTED TAXIWAY EDGE LIGHT IN TURF. THIS WORK IS PAID FOR UNDER ITEM L-125. REFER TO A3/EL501 FOR DETAIL. (TYP.)

1. ALL EXISTING VASI UNITS AND VASI CONDUIT AND CABLES ARE TO REMAIN OPERATIONAL AT ALL TIMES.
2. PROVIDE IDENTIFICATION FOR ALL NEW CABLES AND LIGHT FIXTURES AS INDICATED IN DETAIL A3/EL-501. COORDINATE WITH OWNER.
3. ALL EXISTING AIRFIELD GUIDANCE SIGNS TO REMAIN. PROTECT IN PLACE.
4. REFER TO DETAIL B1/EL501 FOR COUNTERPOISE INSTALLATION.
5. ALL TAXIWAY EDGE LIGHTS SHALL BE LOCATED 10 FEET OFF THE DEFINED RUNWAY OR TAXIWAY EDGE OR END UNLESS OTHERWISE NOTED OR DIRECTED. THE CONTRACTOR SHALL ALIGN ALL LIGHTS ON TANGENT SECTIONS SUCH THAT THEY FORM A STRAIGHT LINE.

C1 KEY NOTES
SCALE: NOT TO SCALE

C3 NOTES
SCALE: NOT TO SCALE



A1 ELECTRICAL PLAN
SCALE: 1" = 60'

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**TAXIWAY EDGE LIGHTS PROJECT
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ELECTRICAL PLAN

EL101

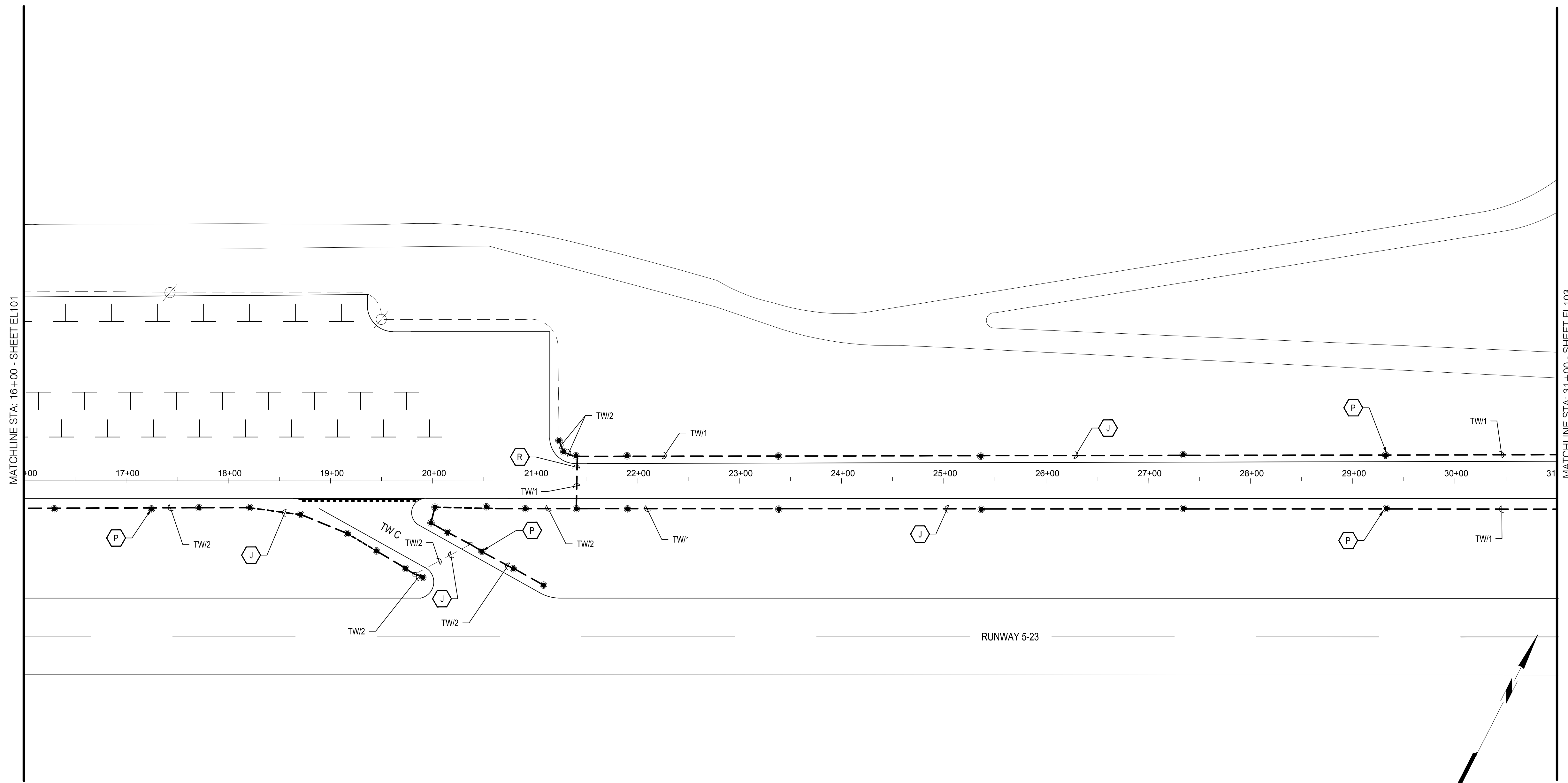
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- J** PROVIDE #8 AWG 5-KV TYPE C AIRFIELD LIGHTING CABLE IN 2" PVC CONDUIT (OR EXISTING CONDUIT). REFER TO B2/EL501 FOR DETAIL. THIS WORK IS PAID FOR UNDER ITEM L-108 AND L-110.
- P** PROVIDE MEDIUM-INTENSITY, BASE-MOUNTED TAXIWAY EDGE LIGHT IN TURF. THIS WORK IS PAID FOR UNDER ITEM L-125. REFER TO A3/EL501 FOR DETAIL. (TYP.)
- R** BORE UNDER EXISTING TAXIWAY. REFER TO A4/EL501 FOR DETAIL. THIS WORK IS PAID FOR UNDER L-113.

1. ALL EXISTING VASI UNITS AND VASI CONDUIT AND CABLES ARE TO REMAIN OPERATIONAL AT ALL TIMES.
2. PROVIDE IDENTIFICATION FOR ALL NEW CABLES AND LIGHT FIXTURES AS INDICATED IN DETAIL A3/EL-501. COORDINATE WITH OWNER.
3. ALL EXISTING AIRFIELD GUIDANCE SIGNS TO REMAIN. PROTECT IN PLACE.
4. REFER TO DETAIL B1/EL501 FOR COUNTERPOISE INSTALLATION.
5. ALL TAXIWAY EDGE LIGHTS SHALL BE LOCATED 10 FEET OFF THE DEFINED RUNWAY OR TAXIWAY EDGE OR END UNLESS OTHERWISE NOTED OR DIRECTED. THE CONTRACTOR SHALL ALIGN ALL LIGHTS ON TANGENT SECTIONS SUCH THAT THEY FORM A STRAIGHT LINE.

C1 KEY NOTES
SCALE: NOT TO SCALE

C2 NOTES
SCALE: NOT TO SCALE



A1 ELECTRICAL PLAN
SCALE: 1" = 60'



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ELECTRICAL PLAN

EL102

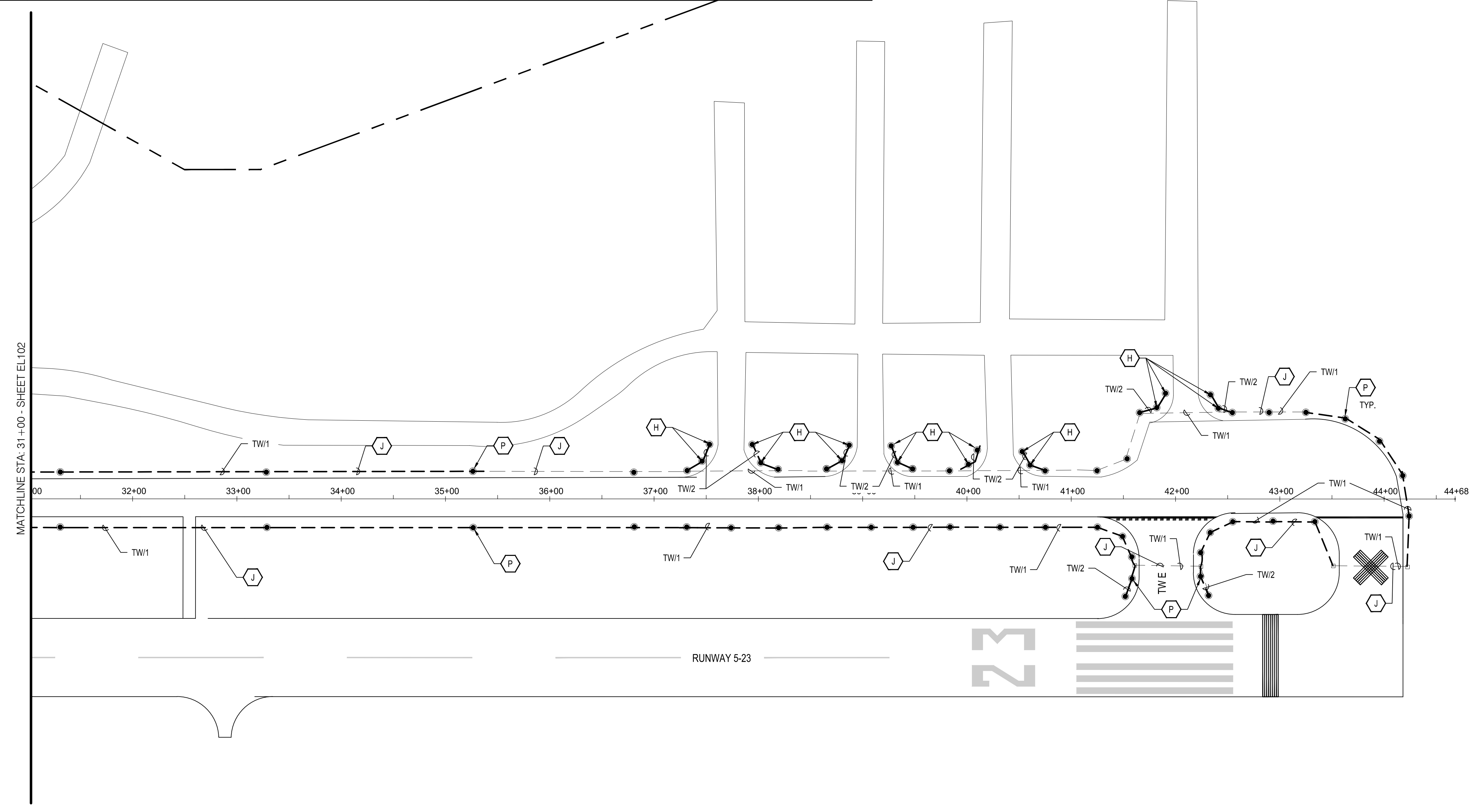
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- J** PROVIDE #8 AWG 5-KV TYPE C AIRFIELD LIGHTING CABLE IN 2" PVC CONDUIT (OR EXISTING CONDUIT). SAWCUT EXISTING PAVEMENT AS REQUIRED TO ACCOMMODATE CONDUIT. REFER TO B2/EL501 FOR DETAIL. THIS WORK IS PAID FOR UNDER ITEM L-108 AND L-110.
- P** PROVIDE MEDIUM-INTENSITY, BASE-MOUNTED TAXIWAY EDGE LIGHT IN TURF. THIS WORK IS PAID FOR UNDER ITEM L-125. REFER TO C3/EL501 FOR DETAIL. (TYP.)
- H** INSTALL BASE FOR TAXIWAY EDGE LIGHT IN TURF. (LIGHT TO BE INSTALLED IN FUTURE). THIS WORK IS PAID FOR UNDER L-125. REFER TO A1/EL501 FOR DETAIL.

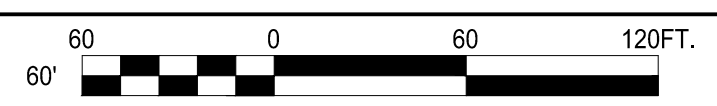
1. ALL EXISTING VASI UNITS AND VASI CONDUIT AND CABLES ARE TO REMAIN OPERATIONAL AT ALL TIMES.
2. PROVIDE IDENTIFICATION FOR ALL NEW CABLES AND LIGHT FIXTURES AS INDICATED IN DETAIL A3/EL-501. COORDINATE WITH OWNER.
3. ALL EXISTING AIRFIELD GUIDANCE SIGNS TO REMAIN. PROTECT N PLACE.
4. REFER TO DETAIL B1/EL501 FOR COUNTERPOISE INSTALLATION.
5. ALL TAXIWAY EDGE LIGHTS SHALL BE LOCATED 10 FEET OFF THE DEFINED RUNWAY OR TAXIWAY EDGE OR END UNLESS OTHERWISE NOTED OR DIRECTED. THE CONTRACTOR SHALL ALIGN ALL LIGHTS ON TANGENT SECTIONS SUCH THAT THEY FORM A STRAIGHT LINE.

C1 KEY NOTES
SCALE: NOT TO SCALE

C2 NOTES
SCALE: NOT TO SCALE



A1 ELECTRICAL PLAN
SCALE: 1" = 60'



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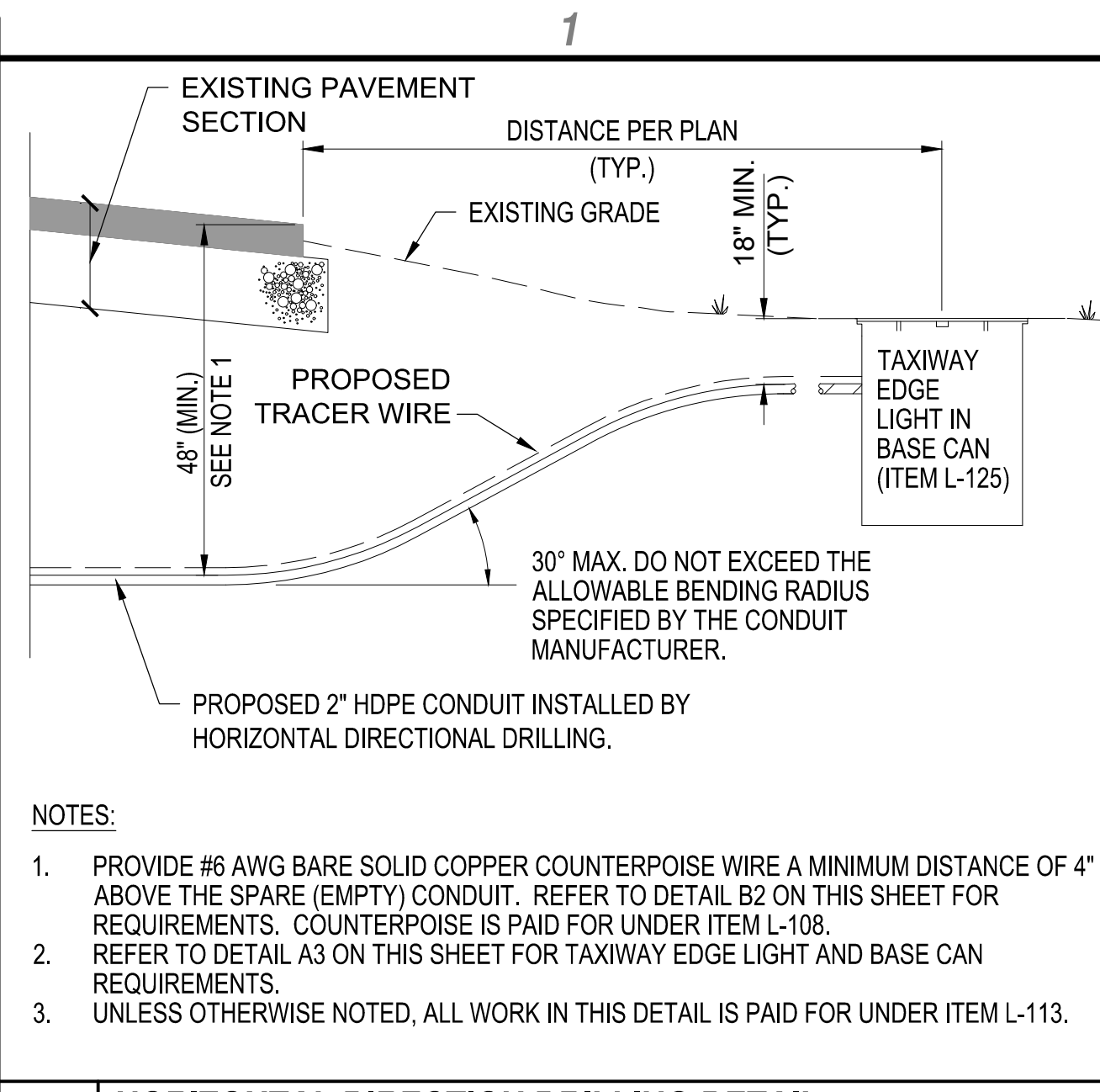
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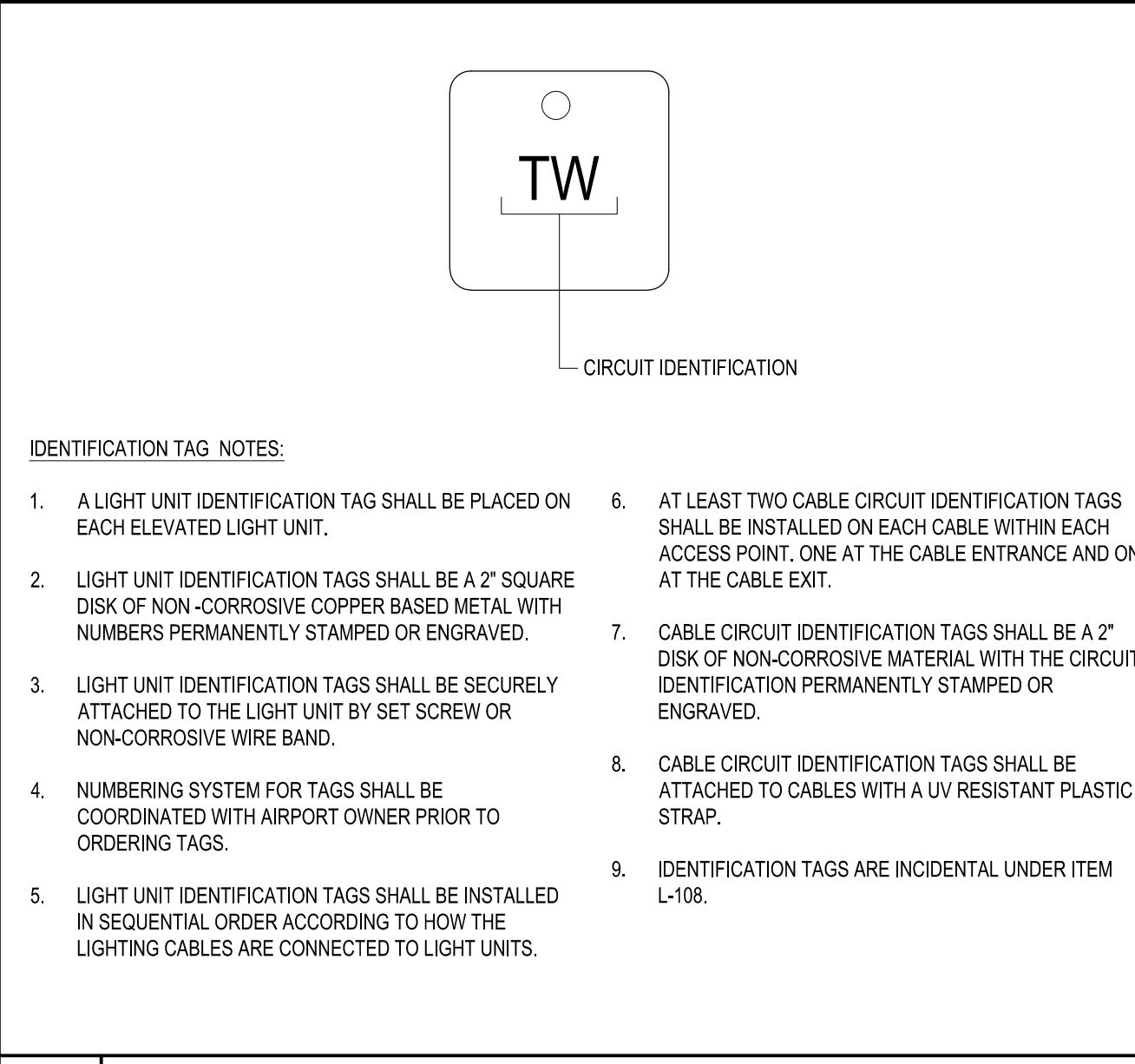
ELECTRICAL PLAN

EL103

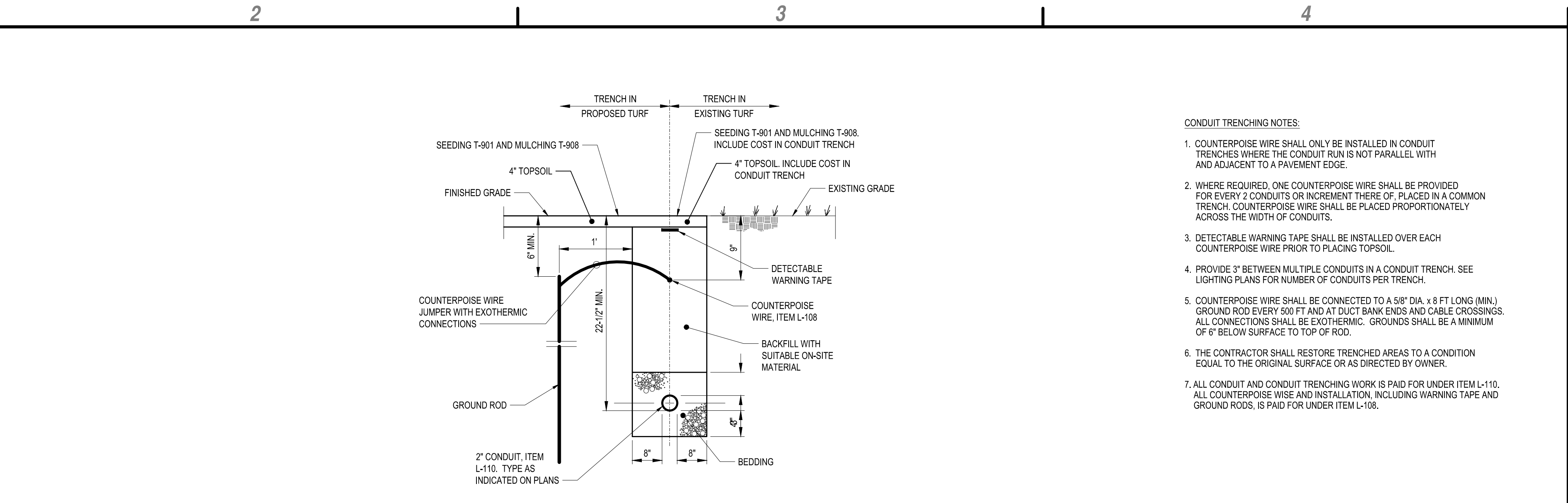
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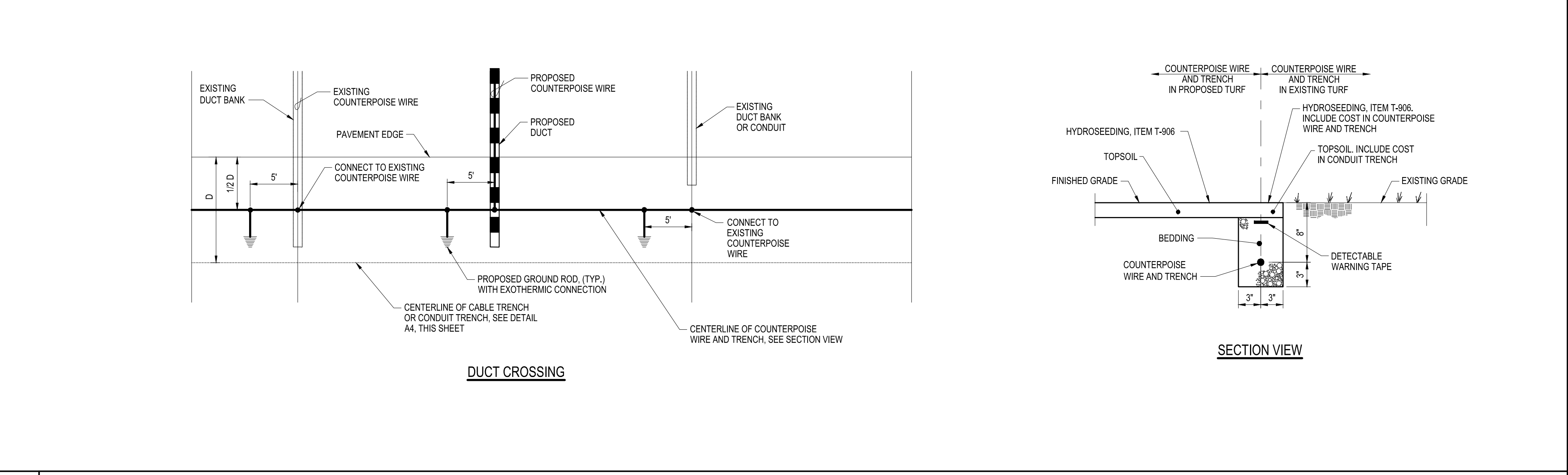
C1 HORIZONTAL DIRECTION DRILLING DETAIL
SCALE: NOT TO SCALE



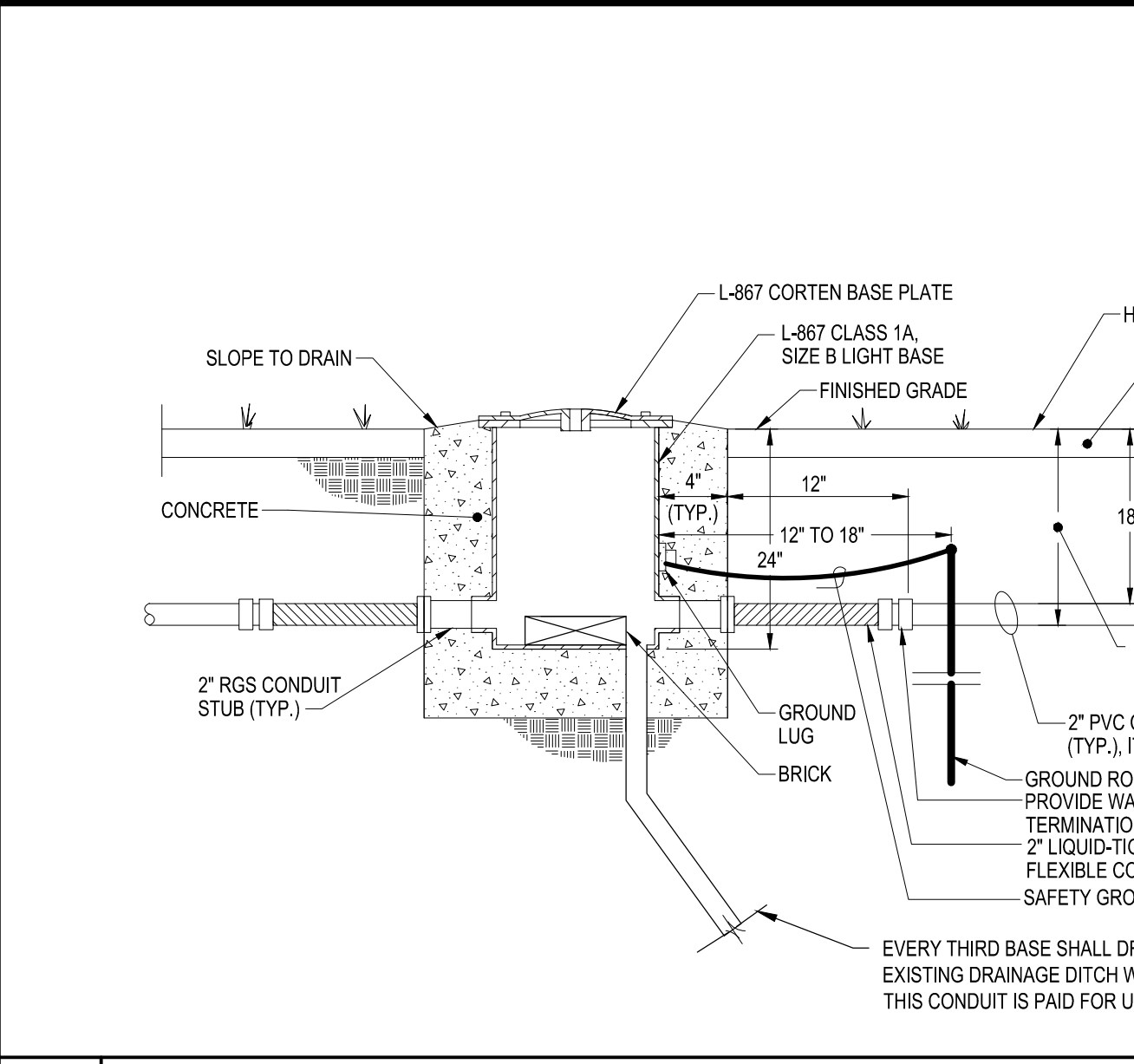
B1 CIRCUIT IDENTIFICATION TAG
SCALE: NOT TO SCALE



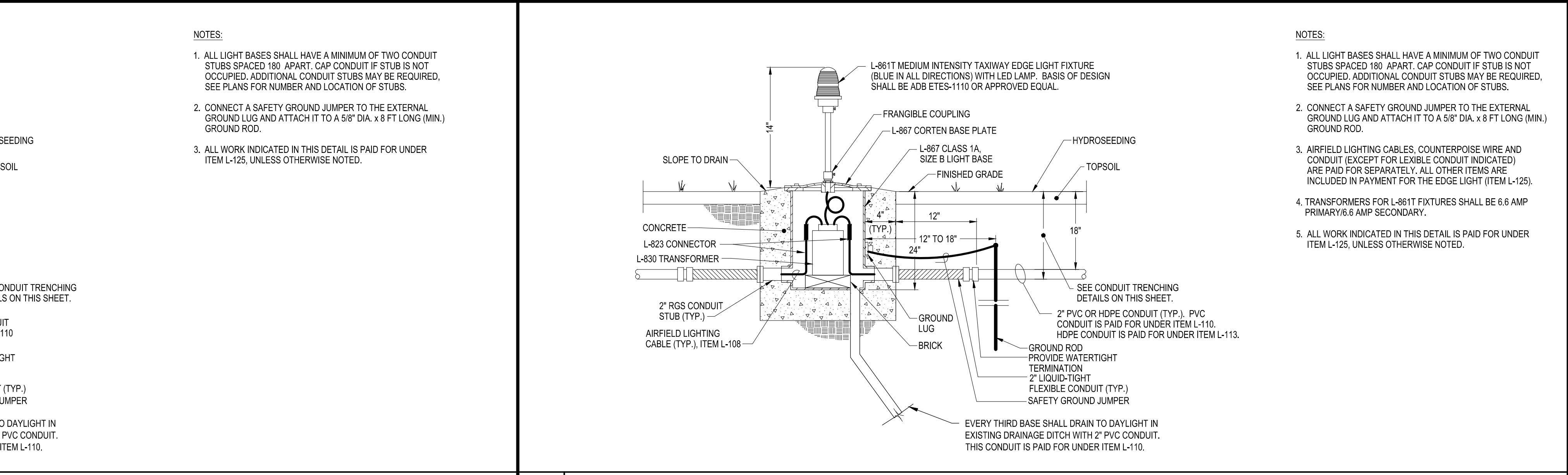
B2 CONDUIT TRENCHING IN TURF AND COUNTERPOISE INSTALLATION DETAILS
SCALE: NOT TO SCALE



B2 CONDUIT TRENCHING IN TURF AND COUNTERPOISE INSTALLATION DETAILS
SCALE: NOT TO SCALE



A1 BASE CAN IN TURF DETAIL
SCALE: NOT TO SCALE



A3 ELEVATED LIGHT IN TURF DETAIL (BASE MOUNTED)
SCALE: NOT TO SCALE

- CONDUIT TRENCHING NOTES:**
- COUNTERPOISE WIRE SHALL ONLY BE INSTALLED IN CONDUIT TRENCHES WHERE THE CONDUIT RUN IS NOT PARALLEL WITH AND ADJACENT TO A PAVEMENT EDGE.
 - WHERE REQUIRED, ONE COUNTERPOISE WIRE SHALL BE PROVIDED FOR EVERY 2 CONDUITS OR INCREMENT THERE OF, PLACED IN A COMMON TRENCH. COUNTERPOISE WIRE SHALL BE PLACED PROPORTIONATELY ACROSS THE WIDTH OF CONDUITS.
 - DETECTABLE WARNING TAPE SHALL BE INSTALLED OVER EACH COUNTERPOISE WIRE PRIOR TO PLACING TOPSOIL.
 - PROVIDE 3" BETWEEN MULTIPLE CONDUITS IN A CONDUIT TRENCH. SEE LIGHTING PLANS FOR NUMBER OF CONDUITS PER TRENCH.
 - COUNTERPOISE WIRE SHALL BE CONNECTED TO A 5/8" DIA. x 8 FT LONG (MIN.) GROUND ROD EVERY 500 FT AND AT DUCT BANK ENDS AND CABLE CROSSINGS. ALL CONNECTIONS SHALL BE EXOTHERMIC. GROUNDS SHALL BE A MINIMUM OF 6" BELOW SURFACE TO TOP OF ROD.
 - THE CONTRACTOR SHALL RESTORE TRENCHED AREAS TO A CONDITION EQUAL TO THE ORIGINAL SURFACE OR AS DIRECTED BY OWNER.
 - ALL CONDUIT AND CONDUIT TRENCHING WORK IS PAID FOR UNDER ITEM L-110. ALL COUNTERPOISE WIRE AND INSTALLATION, INCLUDING WARNING TAPE AND GROUND RODS, IS PAID FOR UNDER ITEM L-108.



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ELECTRICAL DETAILS

EL501

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