

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

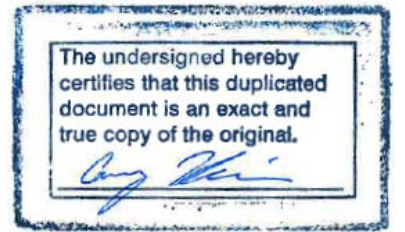
PE Randall C. Johnston DATE 12/18/2025

**AS BUILT, B&B ELECTRIC,
STEVE SHANER, 8/11/2025**

PROPOSED AIRPORT PROJECT

ST. PAUL, ALASKA

FFY18 ST. PAUL AIRPORT VISUAL AID REPLACEMENT PROJECT NO. SFAPT00212 AIP No. 3-02-0277-007-2023

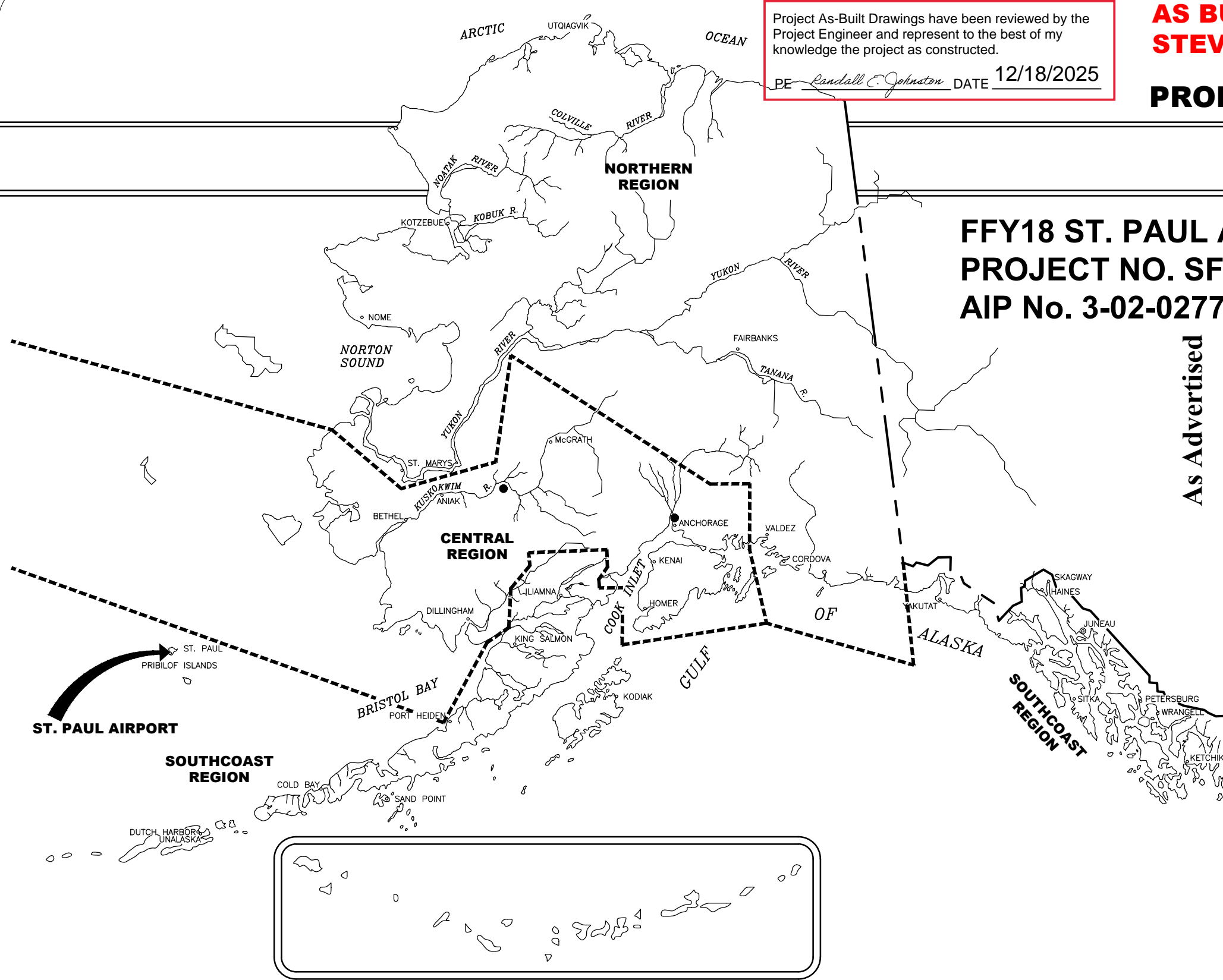
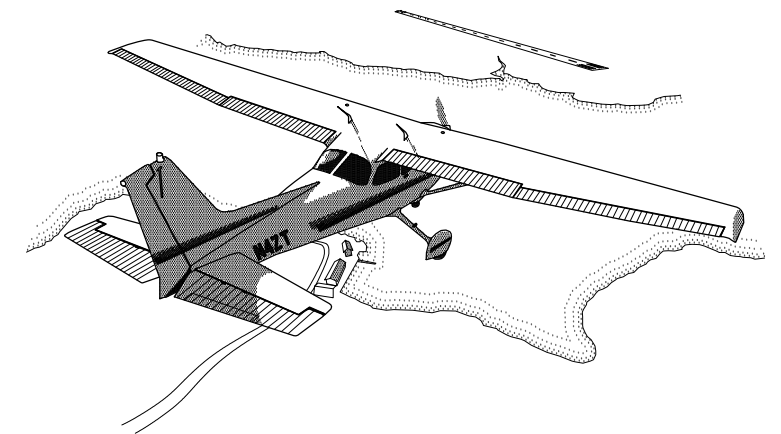


07/22/2024

PROJECT DRAWINGS

- TT - COVER SHEET AND INDEX
- SCS1 - SURVEY CONTROL
- A1 - ESTIMATE OF QUANTITIES
- C1 - EQUIPMENT BASE GENERAL NOTES
- C2 - EQUIPMENT BASE DETAILS
- E1 - ELECTRICAL LEGEND AND SCHEDULES
- E2 - OVERALL SITE PLAN
- E3 - ENLARGED SITE PLAN - SOUTH
- E4 - ENLARGED SITE PLAN - NORTH
- E5 - ROTATING BEACON DETAILS
- E6 - WIND CONE DETAILS

As Advertised



8/3/04
Date Plotted: 1=1, layout=cover
Plot Ratio and Layout: G:\Projects\Briewood\Lighting Replacement - Project No. 56833 (06-2003)\Final Drawings\039_1.dwg
Designed By: Imk
Checked By: RJD
Drawn By:

**SPONSORED BY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHCOAST**

PETER JACKSON, PE, PROJECT MANAGER
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION
6860 GLACIER HIGHWAY
JUNEAU, AK 99811
(907)465-4439

APPROVED BY: [Signature] DATE: 12/19/2023

KIRK MILLER, PE, PRECONSTRUCTION ENGINEER, SOUTHCOAST REGION
CFE1F1F341494BA...

ACCEPTED FOR CONSTRUCTION: [Signature] DATE: 12/19/2023

CHRISTOPHER GOINS, PE, CM, REGIONAL DIRECTOR, SOUTHCOAST REGION
2E12E08EB67041B...

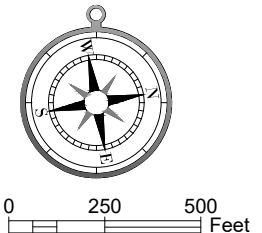
ST. PAUL AIRPORT AIRPORT VISUAL AID REPLACEMENT

SHEET 1 OF 11

DESIGNED: J.PAPOI
 CHECKED: D.KHOTOV
 DRAFTER: J.PAPOI
 XREFS
 SCALE
 LAYOUT: A2
 DATE TIME: 8/1/2023 10:04
 DRAWING LOCATION: Q:\SHP\SFAP\00212\SV\St.Paul_SCS_020823_L.dwg

MONUMENT NOTES:

1. IF ANY PAIR OF CONTROL POINTS DISAGREES FROM PUBLISHED VALUE BY MORE THAN 1:10,000 HORIZONTALLY OR VERTICALLY THEN A THIRD NETWORK POINT MUST BE TIED TO ASCERTAIN WHICH POINT IS IN ERROR OR HAS BEEN DISTURBED.
2. WHETHER LISTED OR NOT, ALL PROPERTY MONUMENTS, PROPERTY MARKERS, CORNERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED, AND RE-ESTABLISHED IN THEIR ORIGINAL HORIZONTAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH (A.S.34.65.040) AND (A.S.19.10.260) SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES AND SHOULD BE USED TO RESET MONUMENTS ONLY AS A LAST RESORT.
3. WHEN POSSIBLE ALL ORIGINAL PRIMARY MONUMENTS SHALL BE SAVED AND RESET IN THEIR ORIGINAL HORIZONTAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH (A.S.34.65.040) AND (A.S.19.10.260) SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING.
4. RIGHT OF WAY LOCATION IS SHOWN FOR GRAPHICAL ORIENTATION PURPOSES ONLY. REFER TO ALASKA DOT&PF RIGHT OF WAY MAPS FOR RIGHT OF WAY INFORMATION.
5. HORIZONTAL AND VERTICAL CONTROL MUST BE FIELD VERIFIED BY THE CONTRACTOR. DISCREPANCIES WILL BE REPORTED TO DOT&PF CONSTRUCTION PROJECT ENGINEER.



All **SURVEY CONTROL** monuments in this table were translated from Record of Survey Project No. 56948 St. Paul Airport, Plat 2008-8 Aleutian Islands Recording District.

Coordinates were translated to match those shown on St. Paul Airport Pavement Project, Project No. 56948 Survey Control Sheet, Sheet No. 3 of the As-built dated 03/2007.

Monuments 502 & 503 of the above listed surveys were common in both records and held for basis of translation/rotation. No field verification of the monuments was done. Contact Southcoast Region DOT&PF ROW/Survey section for additional information if needed.

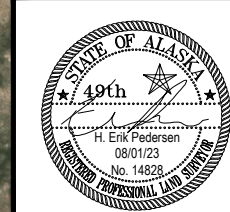
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFAPT00212	2023	SCS1	10

Point #	Northing	Easting	Elevation	Description	Station	Offset
1	82573.34	55542.89	29.89	2.5"BC_HV-1_PACS_DOT&PF	N/A	N/A
2	83136.97	54228.44	49.96	2.5"BC_HV-2_SACS_DOT&PF	N/A	N/A
3	85167.58	55452.72	45.64	2.5"BC_HV-3_SACS_DOT&PF	N/A	N/A
725	81843.53	54592.89	41.90	2.5"ALPRIM_CL_26+50_DOT&PF	N/A	N/A
726	88350.47	55698.78	68.80	2.5"ALPRIM_CL_92+50_DOT&PF	N/A	N/A

**AS BUILT, B&B ELECTRIC,
STEVE SHANER, 8/11/2025**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Randall C. Johnston DATE 12/18/2025



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6860 Glacier Highway Juneau Ak. 99801
 (907) 465-1763

**ST. PAUL ALASKA
 AIRPORT VISUAL AND REPLACEMENT
 PROJECT No. SFAPT00212
 SURVEY CONTROL**

**AS BUILT, B&B ELECTRIC,
STEVE SHANER, 8/11/2025**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Randall E. Johnston DATE 12/18/2025

Designed By: **FB**
 Drawn By: **FB**
 Checked By: **PJ**
 Layout Name: **EST**

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ'D
G115.010.0000	WORKERS MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQ'D
G131.010.0000	ENGINEERING TRANSPORTATION (TRUCK)	EACH	1
G131.025.0000	ENGINEERING TRANSPORTATION (UTV)	EACH	1
G135.010.0000	CONSTRUCTION SURVEY BY CONTRACTOR	LUMP SUM	ALL REQ'D
L101.020.0000	ROTATING BEACON, MEDIUM INTENSITY, L-801A	EACH	1
L103.010.0030	30-FEET HINGED POLE BEACON TOWER	EACH	1
L107.010.0008	8-FEET LIGHTED WIND CONE, IN PLACE	EACH	1
L107.011.0008	8-FEET LIGHTED WIND CONE, SUPPLEMENTAL, IN PLACE	EACH	1
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L-824	LINEAR FOOT	1,144
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	LINEAR FOOT	1,144
L108.050.1006	UNDERGROUND CABLE #6 AWG, COPPER, 600V, TYPE C, L-824	LINEAR FOOT	3,900
L108.050.1010	UNDERGROUND CABLE #10 AWG, COPPER, 600V, TYPE C, L-824	LINEAR FOOT	2,964
L108.070.0000	GROUND ROD	EACH	3
L110.080.1002	HDPE CONDUIT, 2-INCH	LINEAR FOOT	450
L125.150.0000	HANDHOLE, L-867, SIZE B	EACH	3
L125.170.0000	SPARE PARTS	CONTINGENT SUM	ALL REQ'D
P640.020.0000	SEGMENTED CIRCLE (PANEL-TYPE)	LUMP SUM	ALL REQ'D
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D
P641.020.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQ'D

Installed

997
1053
3228
484

PLANS DEVELOPED BY:
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY JUNEAU, AK 99801
 (907) 465-1763



BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTH COAST REGION

ST. PAUL AIRPORT
 ST PAUL, ALASKA
 AIRPORT VISUAL AID REPLACEMENT
 PROJECT No. SFAPT00212
 AIP No. 3-02-0277-007-2023
 ESTIMATE OF QUANTITIES

DATE: NOV 2023
 SHEET: A1 OF A1

THE FOLLOWING NOTES APPLY UNLESS INDICATED OTHERWISE:

GENERAL:

GOVERNING CODE:

THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION, HEREAFTER REFERRED TO AS THE IBC, AS ADOPTED AND MODIFIED BY THE STATE OF ALASKA, UNDERSTOOD TO BE THE AUTHORITY HAVING JURISDICTION (AHJ).

REFERENCE STANDARDS:

REFER TO CHAPTER 35 OF THE IBC, WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD.

DEFINITIONS:

THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES:

"SUBMIT FOR REVIEW" - SUBMIT TO THE DEPARTMENT FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.

"PER PLAN" - INDICATES REFERENCES TO THE STRUCTURAL DRAWINGS AND STRUCTURAL GENERAL NOTES.

SUBMITTALS

SUBMIT THE FOLLOWING TO THE DEPARTMENT REPRESENTATIVE FOR REVIEW PRIOR TO FABRICATION:

- STRUCTURAL STEEL SHOP DRAWINGS, WITH MATERIALS IDENTIFIED AND AWS WELD SYMBOLS INDICATED. SUBMIT ELECTRONIC FILE IN FORMAT SUITABLE FOR 11X17 PRINTING.
- WELDING CONSUMABLES MATCHING COMPOSITION SPECIFIED.
- ALL-THREAD ANCHOR STUDS, WITH MECHANICAL, CHEMICAL, AND NOTCH-TOUGHNESS REPORTS MATCHING THE MATERIAL SPECIFIED.
- COATING SYSTEM MATERIALS, THICKNESS(ES), AND METHOD OF SURFACE PREPARATION FOR SHOP APPLICATION AND REPAIR OF COATINGS AS SPECIFIED.

SITE VERIFICATION:

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STEEL FABRICATION AND AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DEPARTMENT BEFORE PROCEEDING WITH THE WORK.

DESIGN LOADS:

RISK CATEGORY: IV

WIND WIND SPEED, V.....	182 MPH
ENCLOSURE CLASSIFICATION.....	SOLID FREE-STANDING SIGNS
EXPOSURE CATEGORY.....	C
TOPOGRAPHIC FACTOR, K _{zT}	1.00
DIRECTION FACTOR.....	0.85
GUST FACTOR, G.....	0.85
INTERNAL PRESSURE COEF, GC _{pi}	N/A
EFFECTIVE WIND PRESSURE.....	92 PSF

SOILS AND FOUNDATIONS:

DESIGN SOIL VALUES:

FOUNDATION DESIGN IS BASED ON AN ESTIMATED ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF. ADDITIONAL 1/3 STRESS INCREASE ALLOWED FOR WIND/SEISMIC LOADS.

BACKFILL:

BACKFILL WITH CLEAN MATERIAL FROM EXCAVATION FREE OF ORGANICS AND PLACED IN LIFTS NOT EXCEEDING 8-INCH THICKNESS AND COMPACT EACH LIFT WITH MAXIMUM PRACTICABLE EFFORT AT OPTIMUM MOISTURE CONTENT. FINAL GRADE TO MATCH ORIGINAL GRADE OR SLIGHTLY ABOVE.

ALL-THREAD ANCHOR STUDS:

ASTM A320 L7, "8-UN" THREAD, HOT DIP GALVANIZED, FURNISHED ASSEMBLED WITH (4) HEAVY HEX NUTS AND (4) HARDENED WASHERS PER STUD. SIZE AS SHOWN ON THE DRAWINGS.

STRUCTURAL STEEL:

MATERIALS:

STRUCTURAL BARS & PLATES (PL)..... ASTM A529 OR 572, FY = 50 KSI
STRUCTURAL PIPE (PIPE)..... ASTM A500, FY = 46 KSI

WELDING:

ALL SHOP AND FIELD STRUCTURAL STEEL WELDING SHALL BE IN ACCORDANCE WITH AWS 01.1-2020 "STRUCTURAL WELDING CODE" AND APPROVED WELDING PROCEDURE SPECIFICATIONS (WPS), AND BE PERFORMED BY WELDERS CURRENTLY QUALIFIED IN ACCORDANCE WITH AWS D1.1.

FOR THE PURPOSES OF AWS D1.1, THE STRUCTURE IS STATICALLY LOADED.

WELDING CONSUMABLES SHALL BE OF MINIMUM 1-PERCENT NICKEL COMPOSITION CONFORMING TO AWS 01.1 WELD METAL CHEMICAL COMPOSITION "N11" OR FOR SMAW PROCESS, E70XX-C1.

ALL FILLET WELD SIZES MUST BE INCREASED BY THE FULL AMOUNT OF ANY ROOT GAP. PROVIDE WELD PREHEAT WHERE INDICATED ON THE APPROVED WPS.

COATINGS:

APPLIES TO FABRICATED STEEL FOUNDATION ASSEMBLIES. AFTER SHOP WELDING IS COMPLETE, RELIEVE AND DE-BURR EXPOSED EDGES OF STEEL PRIOR TO COATING PREPARATION. REMOVE OIL AND OILY RESIDUE PER SSPC-SP 1, "SOLVENT CLEANING" AS REQUIRED USING ONLY DEVPREP 88 OR DEPARTMENT-APPROVED EQUAL FOR WORK CONDUCTED ON AIRPORT P.PROPERTY). RINSE WITH FRESH WATER (LESS THAN 100 PPM OF CHLORIDES) TO OBTAIN A WETTED METAL SURFACE WITH A PH BETWEEN 6.5 AND 7.5.

PREPARE STEEL FOR COATING APPLICATION IN ACCORDANCE WITH SSPC-SP 10/NACE NO. 2, "NEAR-WHITE METAL BLAST CLEANING". AFTER ABRASIVE BLASTING, REMOVE DUST AND SPENT ABRASIVE FROM THE SURFACES BY USING OIL-FREE PRESSURIZED AIR, BRUSHING, OR VACUUM CLEANING. PREVENT RUSTING AND CONTAMINATION OF CLEANED SURFACES. IF RUSTING OR CONTAMINATION OCCURS, RESTORE THE SURFACE TO MEET THE REQUIREMENTS OF SSPC-SP 10.

PROTECT STEEL WITH ARC-SPRAY METALIZING WITH ZINC FEEDSTOCK TO ACHIEVE DFT 10 MILS. MIN., 14 MILS. MAX. SEAL COAT WITH AN APPROVED COMPATIBLE PRODUCT TO ACHIEVE DFT 1 MILS. MIN., 1.5 MILS. MAX.

SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL EMPLOYED BY THE ADOT&PF OR ADOT&PF'S AGENT. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION PER 1704.1.

CONTRACTOR RESPONSIBILITY:

THE CONTRACTOR IS REQUIRED TO PROVIDE THE ADOT&PF A SIGNED, WRITTEN ACKNOWLEDGEMENT OF THE CONTRACTOR'S RESPONSIBILITIES ASSOCIATED WITH THE STATEMENT OF SPECIAL INSPECTIONS ADDRESSING THE REQUIREMENTS LISTED IN IBC SECTION 1714.

SPECIAL INSPECTION PLAN:

THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL EMPLOYED BY THE ADOT&PF OR ITS AGENT. THE CONTRACTOR SHALL COORDINATE WORK WITH THE SPECIAL INSPECTORS.

SPECIAL INSPECTORS SHALL OBSERVE AND ACCEPTANCE TEST THE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. INSPECTION REPORTS SHALL BE FURNISHED TO THE DEPARTMENT AND THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND TO THE ATTENTION OF THE ENGINEER OF RECORD.

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THE APPLICABLE CODES.

SPECIAL INSPECTIONS PER SECTION 1704 OF THE INTERNATIONAL BUILDING CODE WILL BE PROVIDED BY ADOT&PF.

STATEMENT OF SPECIAL INSPECTIONS:

PER 1704 AND 1705. SPECIAL INSPECTIONS AND TESTING ARE REQUIRED BY 1704 AND 1705.

FABRICATORS:

PER IBC SECTION 1704.2 AND THE FOLLOWING:

SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704.2 SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

SPECIAL INSPECTION PLAN: (CONTINUED)

STEEL CONSTRUCTION:

PER IBC SECTION 1705.2, THE ATTACHED TABLES AND THE FOLLOWING:

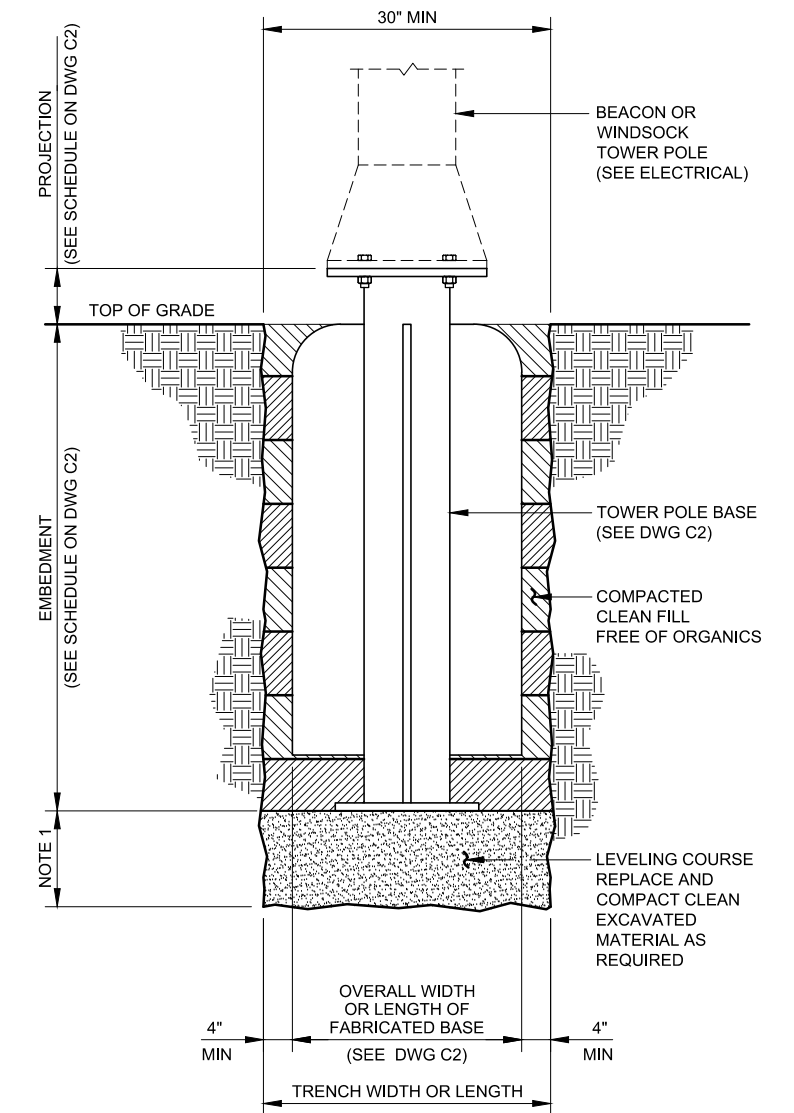
THE SPECIAL INSPECTORS NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDE THE CONDITIONS OF SECTION 1705.2 EXCEPTIONS ARE MET:

- SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE.

REQUIRED VERIFICATION & INSPECTION OF SOILS		
VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION	
A. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	PERIODIC	
B. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	PERIODIC	
C. PERFORM CLASSIFICATION & TESTING OF COMPACTED & CLSM FILL MATERIALS	PERIODIC	
D. VERIFY USE OF PROPER MATERIALS, DENSITIES & LIFT THICKNESS DURING PLACEMENT & COMPACTION OF COMPACTED FILL TEST AS REQUIRED	CONTINUOUS	
E. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE & VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	PERIODIC	

REQUIRED INSPECTION OF STEEL CONSTRUCTION		
VERIFICATION & INSPECTION	FREQUENCY OF INSPECTION	REFERENCE
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360 SECTION A3.3 & APPLICABLE ASTM STANDARDS
B. MANUFACTURER'S CERTIFICATE COMPLIANCE REQUIRED	PERIODIC	
INSPECTION OF HIGH STRENGTH BOLTING		
A. SNUG-TIGHT JOINTS	PERIODIC	AISC 360 SECTION M2.5 IBC 1704
MATERIAL VERIFICATION OF STRUCTURAL STEEL		
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	PERIODIC	AISC 360 SECTION M5.5
B. FOR ALL-THREAD BAR: IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC	APPLICABLE ASTM STANDARDS
C. MANUFACTURER'S CERTIFIED TEST REPORTS	PERIODIC	
MATERIAL VERIFICATION OF WELD FILLER MATERIALS		
A. IDENTIFICATION MARKINGS TO CONFORM TO GENERAL NOTES AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC	AISC 360 SECTION A3.5 & APPLICABLE AWS A5 DOCUMENTS
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC	

INSPECTION OF WELDING		
A. STRUCTURAL STEEL AND COLD FORMED STEEL		
1. COMPLETE & PARTIAL JOINT PENETRATION GROOVE WELDS	CONTINUOUS	AWS D1.1 IBC 1704
2. MULTIPASS FILLET WELDS		
3. SINGLE PASS FILLET WELDS > 5/16"		
4. PLUG & SLOT WELDS	PERIODIC	AWS D1.1 IBC 1704
5. SINGLE PASS FILLET ≤ 5/16"		



- NOTES:**
- MINIMIZE OVER EXCAVATION.
 - SITE CONDITIONS THAT MAY BE ENCOUNTERED DURING TRENCHING AND EXCAVATING OPERATIONS MAY INCLUDE ROCK OUTCROPS, BOULDERS, AND/OR LARGE PIECES OF SHOT ROCK. THE CONTRACTOR IS ADVISED TO BE PREPARED WITH APPROPRIATE ROCK-BREAKING EQUIPMENT TO ADDRESS CONDITIONS THAT MAY BE ENCOUNTERED DURING TRENCHING AND EXCAVATING OPERATIONS.

**BEACON & WINDSOCK
BASE TRENCH DETAIL**
SCALE: 1"=1'-0"

FOR CONSTRUCTION

**AS BUILT, B&B ELECTRIC,
STEVE SHANER, 8/11/2025**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE *Randall Johnston* DATE **12/18/2025**



DRAWINGS PREPARED BY:
R&M CONSULTANTS, INC.
CERT. OF AUTH. AECC111

BY	DATE	REVISION

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTH COAST REGION**

ST. PAUL AIRPORT
ST PAUL, ALASKA
AIRPORT VISUAL AID REPLACEMENT
PROJECT No. SFAPT002121
AIP No. 3-02-0277-007-2023
EQUIPMENT BASE GENERAL NOTES

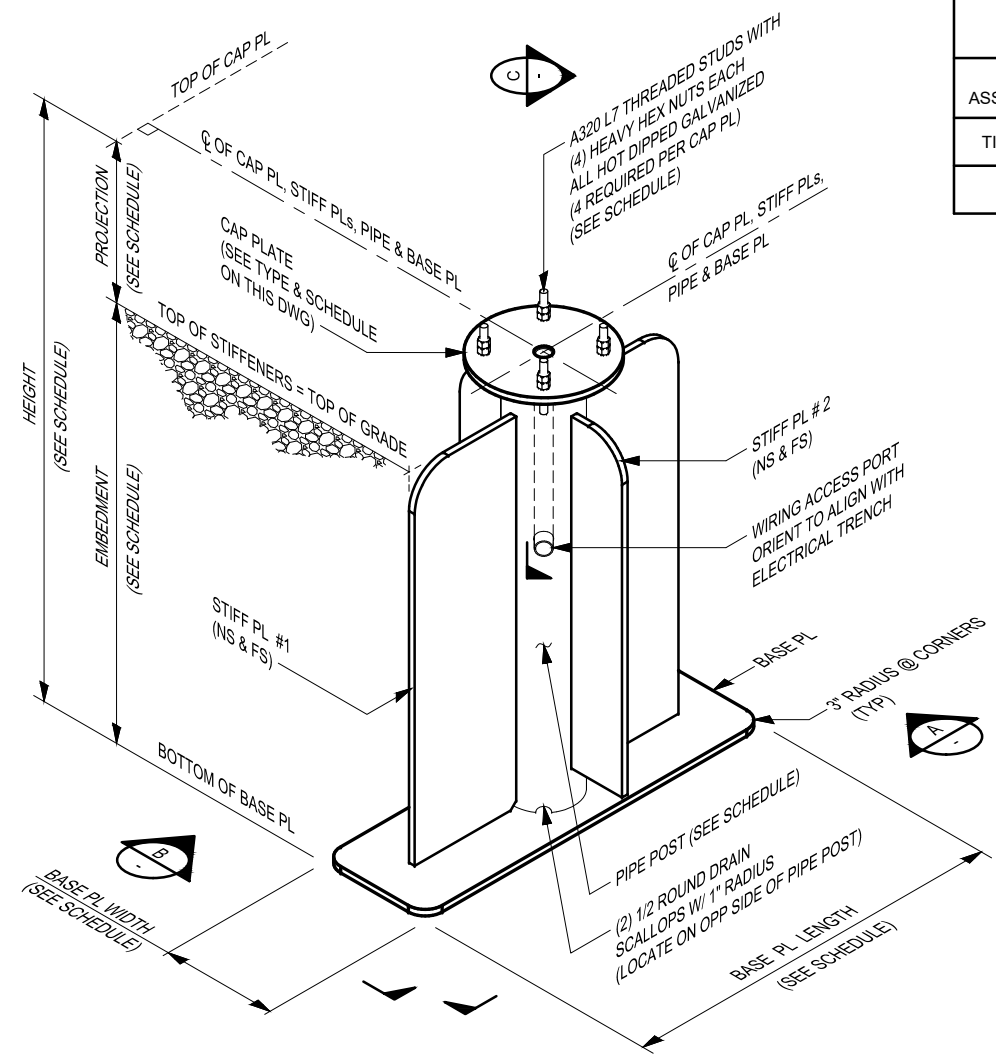
DATE:
2/8/2024
SHEET:
C1 of C2

Date Revised: 2/08/2024
 Layout Name: MDA
 File Path & Name: JMR
 R&M PROJECT NUMBER: 2892.01

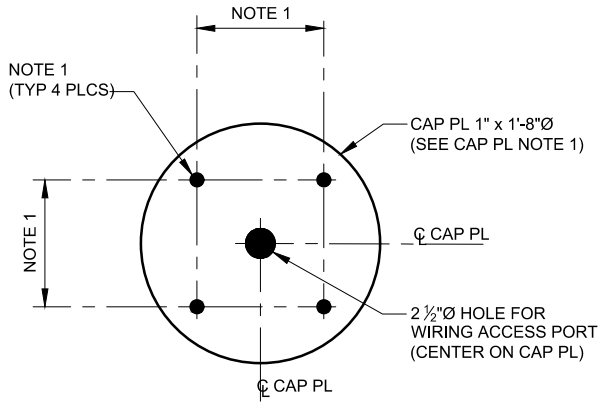
Date Revised: 2/08/2024
 Layout Name: MDA
 File Path & Name: JMR
 Designed By: MDA
 Drawn By: JMR
 Checked By:

R&M PROJECT NUMBER: 2892.01

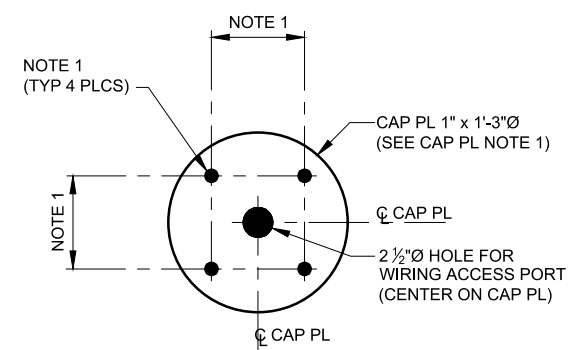
BASE SUPPORT ASSEMBLY DESCRIPTION	QUANTITY	BASE PLATE			STIFFENER PLATE #1			STIFFENER PLATE #2			PIPE POST		CAP PLATE TYPE	STUD		EMBEDMENT	PROJECTION	HEIGHT
		LENGTH	WIDTH	THICKNESS	LENGTH	WIDTH	THICKNESS	LENGTH	WIDTH	THICKNESS	LENGTH	DIAMETER		LENGTH	DIAMETER			
TIP DOWN POLE BASE	1	5'-0"	1'-6"	1"	5'-0"	1'-6"	1"	4'-6"	9"	1"	5'-6"	10"	TYPE 1	8"	NOTE 1	5'-1"	7"	5'-8"
WIND SOCK BASE	2	3'-0"	1'-0"	1"	5'-0"	1'-0"	1"	4'-6"	6"	1"	5'-6"	6"	TYPE 2	6"	NOTE 1	5'-1"	7"	5'-8"



1 TYPICAL EQUIPMENT BASE ISOMETRIC VIEW SCALE: 1"=1'-0"



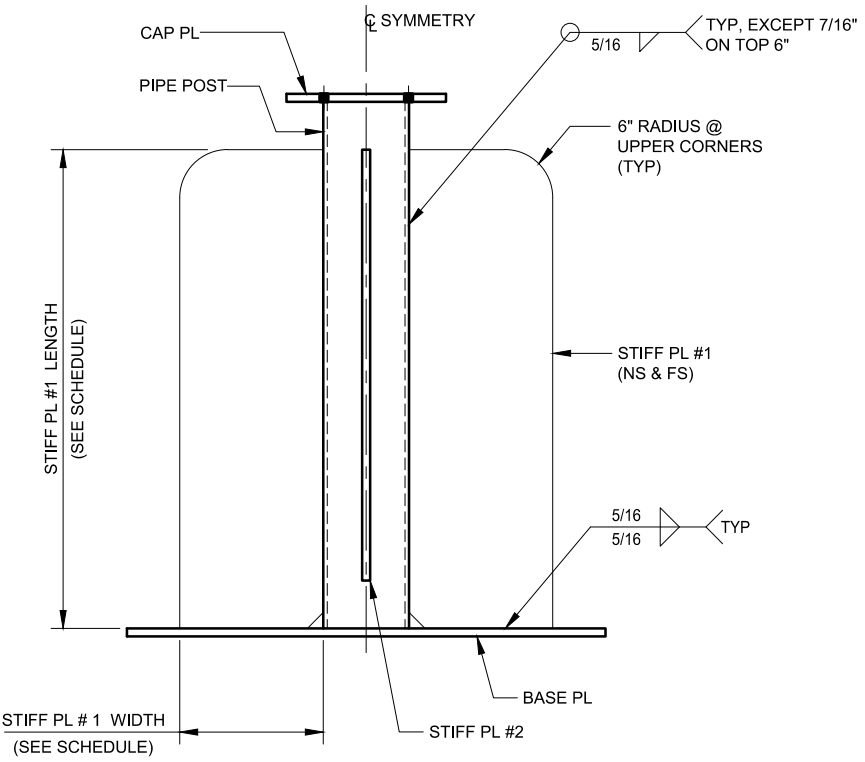
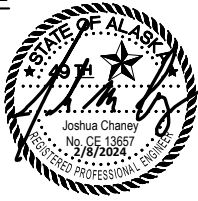
2 TYPE 1 CAP PLATE SCALE: 1 1/2"=1'-0"



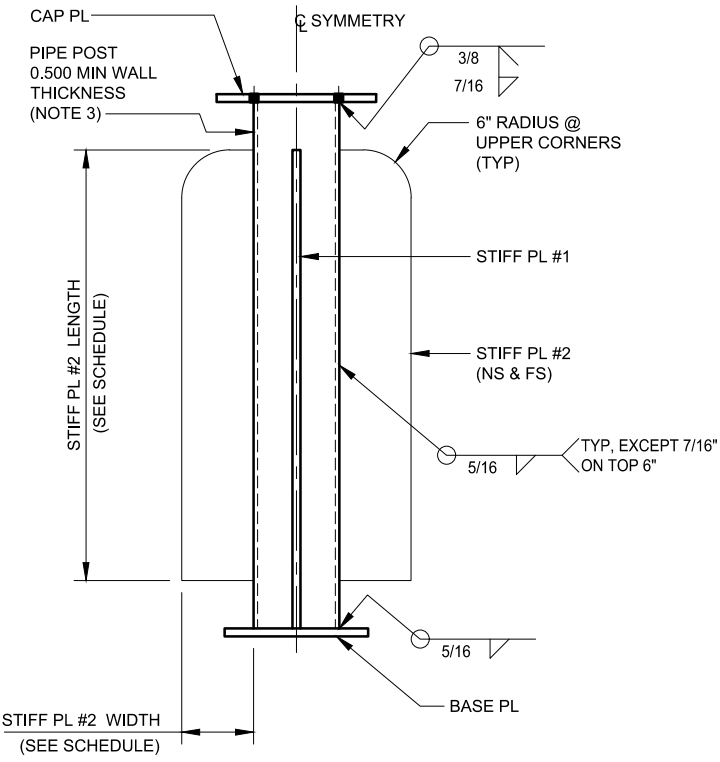
3 TYPE 2 CAP PLATE SCALE: 1 1/2"=1'-0"

CAP PLATE NOTES:
 1. COORDINATE HOLE SIZE AND PATTERN WITH POLE BASE MANUFACTURER

DRAWINGS PREPARED BY:
 R&M CONSULTANTS, INC.
 CERT. OF AUTH. AECC111

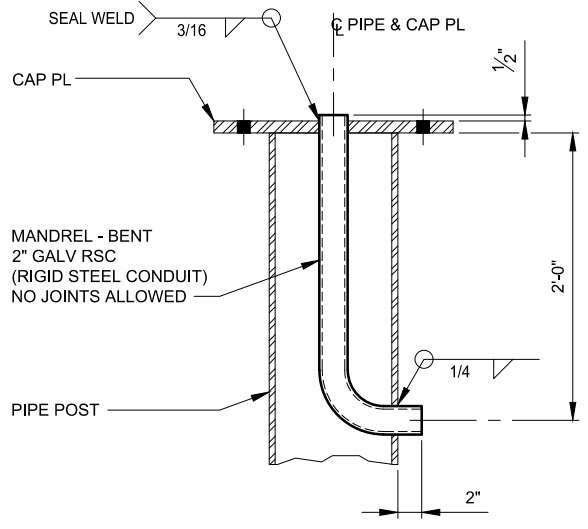


A SECTION - SIDE VIEW SCALE: 1"=1'-0"



B SECTION - END VIEW SCALE: 1"=1'-0"

Both Base types, received Ground Rods



C SECTION - WIRING ACCESS SCALE: 1 1/2"=1'-0"

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE Randall C. Johnston DATE 12/18/2025

- NOTES:**
- SEE GENERAL NOTES ON DRAWING C1 FOR SPECIAL WELDING REQUIREMENTS.
 - PROTECT ALL STEEL BY ARC-SPRAY METALIZING PER GENERAL NOTES.
 - APPLY COATING TO INTERIOR OF PIPE POST TO MAXIMUM EXTENT PRACTICABLE BEFORE ATTACHING CAP AND BASE PLATES.

AS BUILT, B&B ELECTRIC, STEVE SHANER, 8/11/2025

FOR CONSTRUCTION

BY	DATE	REVISION

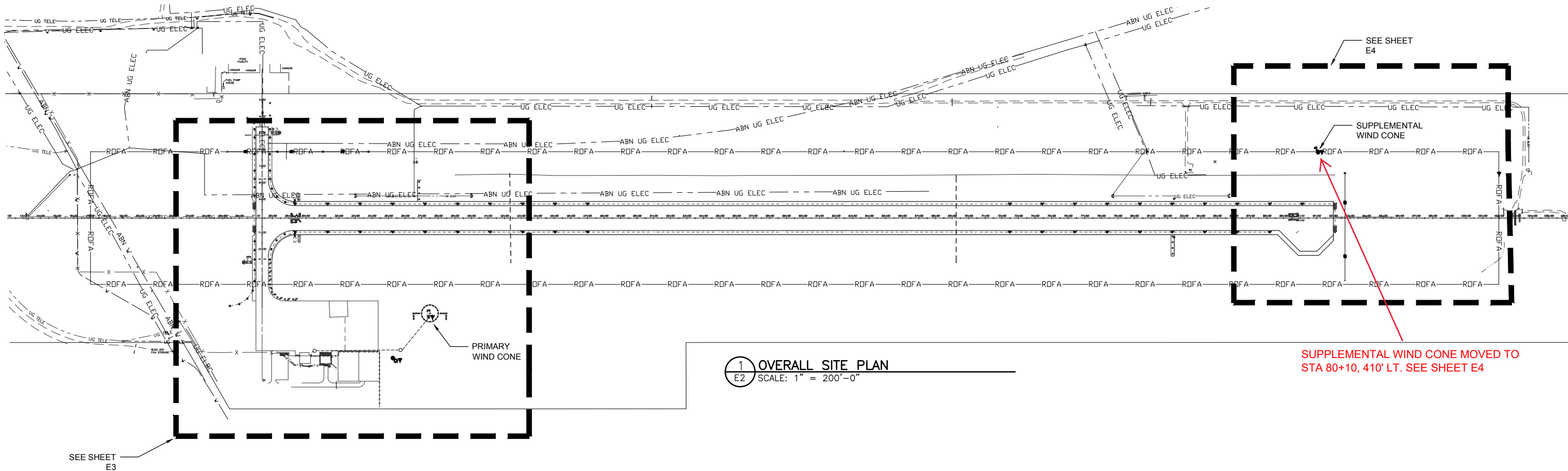
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTH COAST REGION

ST. PAUL AIRPORT
 ST PAUL, ALASKA
 AIRPORT VISUAL AID REPLACEMENT
 PROJECT No. SFAPT002121
 AIP No. 3-02-0277-007-2023
 EQUIPMENT BASE DETAILS

DATE: 2/8/2024
 SHEET: C2 OF C2

Date Revised: 3/14/2018 1:47:35 PM
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 Designed By: LPO
 Drawn By: SNS
 Checked By: EWC

R&M PROJECT NUMBER: 2604.03



1 OVERALL SITE PLAN
 E2 SCALE: 1" = 200'-0"

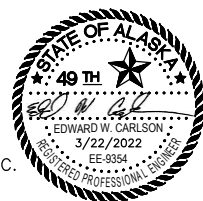
SUPPLEMENTAL WIND CONE MOVED TO STA 80+10, 410' LT. SEE SHEET E4

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Randall C. Johnston DATE 12/18/2025

**AS BUILT, B&B ELECTRIC,
 STEVE SHANER, 8/11/2025**

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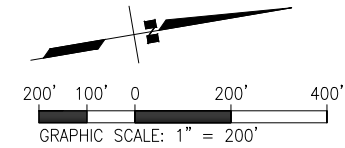


BY	DATE	REVISION

STATE OF ALASKA
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 SOUTH COAST REGION

ST. PAUL AIRPORT
 ST PAUL, ALASKA
 AIRPORT VISUAL AID REPLACEMENT
 PROJECT No. SFAPT00212
 AIP No. 3-02-0277-007-2023
 OVERALL SITE PLAN

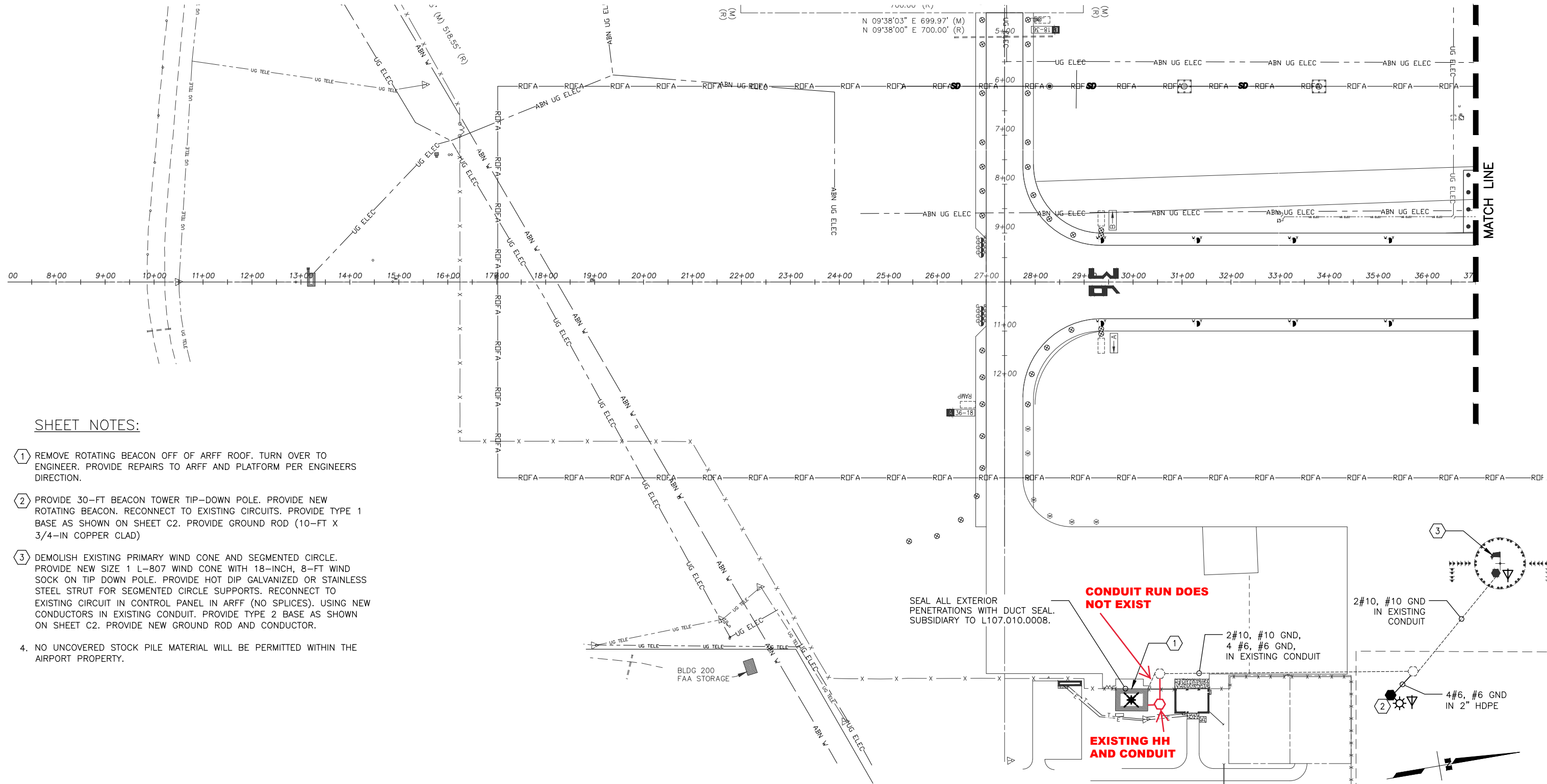
DATE: 02/08/2024
 SHEET: E2 OF E6



BORDER OUTLINE MEASURES
 32x21-SCALE ACCORDINGLY
CONSTRUCTION DOCUMENTS

Date Revised: 3/14/2018 1:47:35 PM
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 File Path & Name: LPO
 Drawn By: SNS
 Checked By: EWC

R&M PROJECT NUMBER: 2604.03



SHEET NOTES:

- 1 REMOVE ROTATING BEACON OFF OF ARFF ROOF. TURN OVER TO ENGINEER. PROVIDE REPAIRS TO ARFF AND PLATFORM PER ENGINEERS DIRECTION.
- 2 PROVIDE 30-FT BEACON TOWER TIP-DOWN POLE. PROVIDE NEW ROTATING BEACON. RECONNECT TO EXISTING CIRCUITS. PROVIDE TYPE 1 BASE AS SHOWN ON SHEET C2. PROVIDE GROUND ROD (10-FT X 3/4-IN COPPER CLAD)
- 3 DEMOLISH EXISTING PRIMARY WIND CONE AND SEGMENTED CIRCLE. PROVIDE NEW SIZE 1 L-807 WIND CONE WITH 18-INCH, 8-FT WIND SOCK ON TIP DOWN POLE. PROVIDE HOT DIP GALVANIZED OR STAINLESS STEEL STRUT FOR SEGMENTED CIRCLE SUPPORTS. RECONNECT TO EXISTING CIRCUIT IN CONTROL PANEL IN ARFF (NO SPLICES). USING NEW CONDUCTORS IN EXISTING CONDUIT. PROVIDE TYPE 2 BASE AS SHOWN ON SHEET C2. PROVIDE NEW GROUND ROD AND CONDUCTOR.
4. NO UNCOVERED STOCK PILE MATERIAL WILL BE PERMITTED WITHIN THE AIRPORT PROPERTY.

1 ENLARGED SITE PLAN - SOUTH
 E3 SCALE: 1" = 100'-0"

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Randall C. Johnston DATE 12/18/2025

**AS BUILT, B&B ELECTRIC,
 STEVE SHANER, 8/11/2025**

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STATE OF ALASKA
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 SOUTH COAST REGION

ST. PAUL AIRPORT
 ST PAUL, ALASKA
 AIRPORT VISUAL AID REPLACEMENT
 PROJECT No. SFAPT00212
 AIP No. 3-02-0277-007-2023
 ENLARGED SITE PLAN - SOUTH

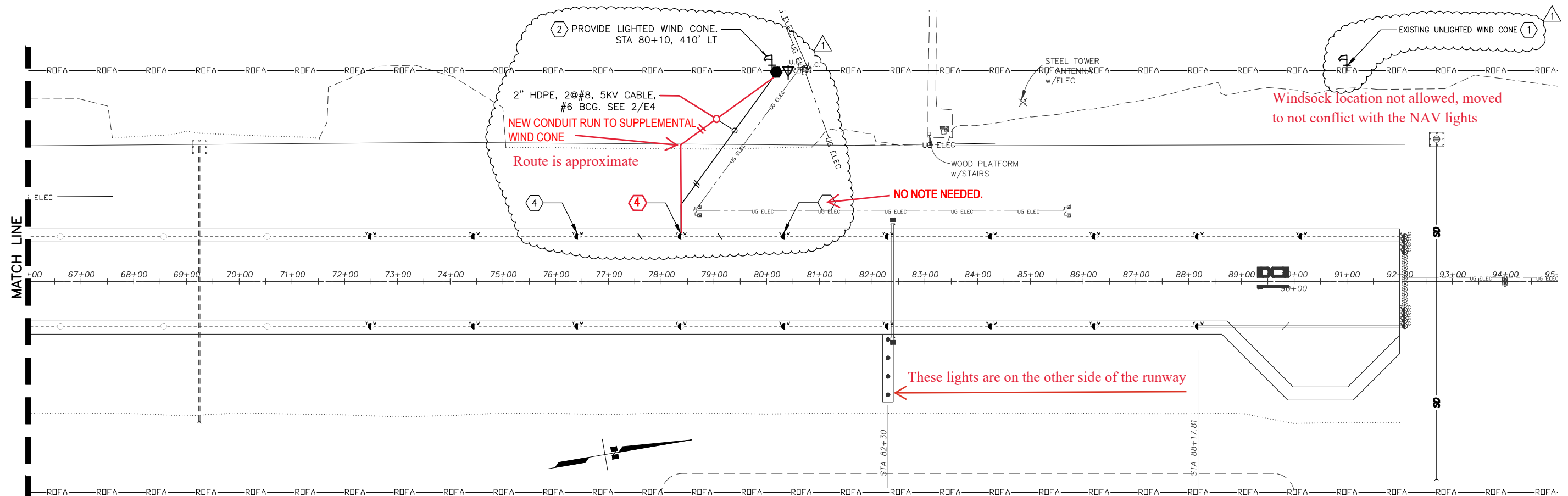
DATE: 02/08/2024
 SHEET: E3 OF E6

0 100' 200'
 GRAPHIC SCALE: 1" = 100'
 BORDER OUTLINE MEASURES 32x21-SCALE ACCORDINGLY

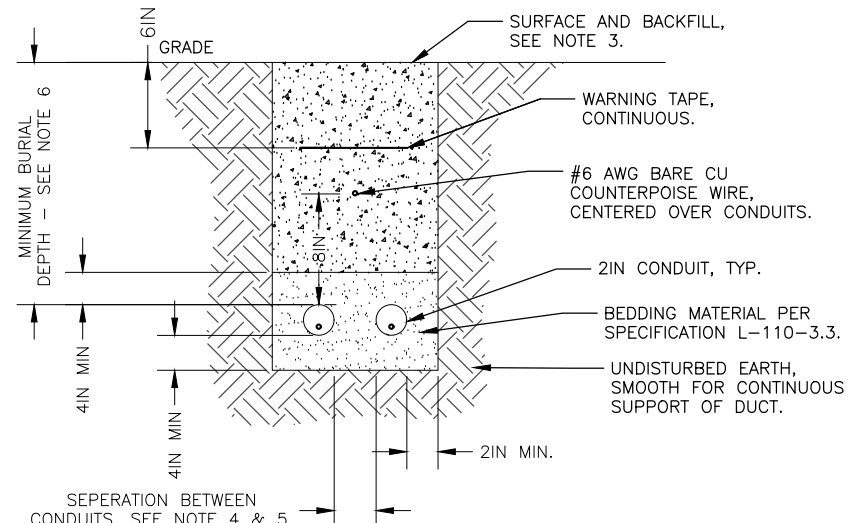
CONSTRUCTION DOCUMENTS

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 Designed By: LPO
 Drawn By: SNS
 Checked By: EWC

R&M PROJECT NUMBER: 2604.03



1 ENLARGED SITE PLAN - NORTH
E4 SCALE: 1" = 100'-0"



DETAIL NOTES:

- WIDTH OF TRENCH AND NUMBER OF CONDUITS PER TRENCH TO BE DETERMINED IN FIELD (2 SHOWN).
- INSTALL NEW LIGHT BASES AND CONDUITS PRIOR TO PLACEMENT OF FINISHED GRADE.
- IN AREAS OF NEW CONSTRUCTION, SEE CIVIL FOR SURFACING AND BACKFILL. IN EXISTING AREAS, MATCH EXISTING SURFACE AND BACKFILL.
- SEPARATION BETWEEN CONDUITS SHALL BE 4IN MINIMUM FOR LIGHTING SYSTEMS.
- 12IN MINIMUM SEPARATION BETWEEN LIGHTING AND FAA SYSTEMS.
- MINIMUM BURIAL DEPTH SHALL BE AS FOLLOWS:
 - AIRPORT LIGHTING CONDUITS: 18IN
 - ALL OTHER CONDUITS: 30IN OR AS INDICATED

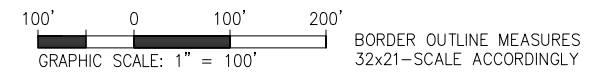
2 TRENCH DETAIL
E4 NTS

SHEET NOTES:

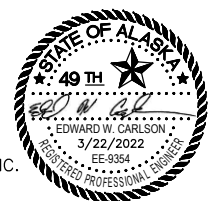
- DEMOLISH EXISTING NON-ILLUMINATED WIND CONE.
- PROVIDE NEW SIZE 1, L-807, SYLE 1-B ILLUMINATED WIND CONE. ON A TIP DOWN POLE POWER FROM RUNWAY CIRCUIT AS SHOWN, PROVIDE BASE AS SHOWN ON SHEET C2. PROVIDE L-830 TRANSFORMER ON TRANSFORMER SUPPORT PLATFORM IN HANDHOLE.
- REMOVE AND REPLACE THE EXISTING LIGHT BASE WITH A NEW ONE WITH AN ADDITIONAL CONDUIT HUB TO ACCOMMODATE THE NEW CONDUIT. INSTALL PER DETAIL 2/E6, LOCATION PER AS-BUILT SURVEY. EXTEND EXISTING 2" CONDUIT AS REQUIRED WITH NEW 2" HDPE. RE-INSTALL THE EXISTING LIGHT FIXTURE AND TRANSFORMER. PROVIDE NEW GASKET AND MOUNTING BOLTS. PROVIDE NEW TRANSFORMER SUPPORT PLATFORM PER L-125-2.17. NEW LIGHT BASE IS PAID FOR UNDER L125.150.0000. ALL WORK AND MATERIALS REQUIRED ARE SUBSIDIARY TO L125.150.0000.
- REMOVE EXISTING AIRFIELD LIGHTING CONDUCTORS AND GROUND CONDUCTOR TO THIS POINT TO ACCOMMODATE REPLACEMENT OF THE LIGHT BASE. PROVIDE NEW #8, 5 KV AIRPORT CABLE AND NEW #6 BCU. CONNECT TO EXISTING TRANSFORMERS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE *Randall C. Johnston* DATE 12/18/2025

AS BUILT, B&B ELECTRIC, STEVE SHANER, 8/11/2025



CONSTRUCTION DOCUMENTS



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AHD	DATE	REVISION
	04/09/2025	1 NEW WIND CONE LOCATION
BY		

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ST. PAUL AIRPORT
 ST PAUL, ALASKA
 AIRPORT VISUAL AID REPLACEMENT
 PROJECT No. SFAPT00212
 AIP No. 3-02-0277-007-2023
 ENLARGED SITE PLAN - NORTH

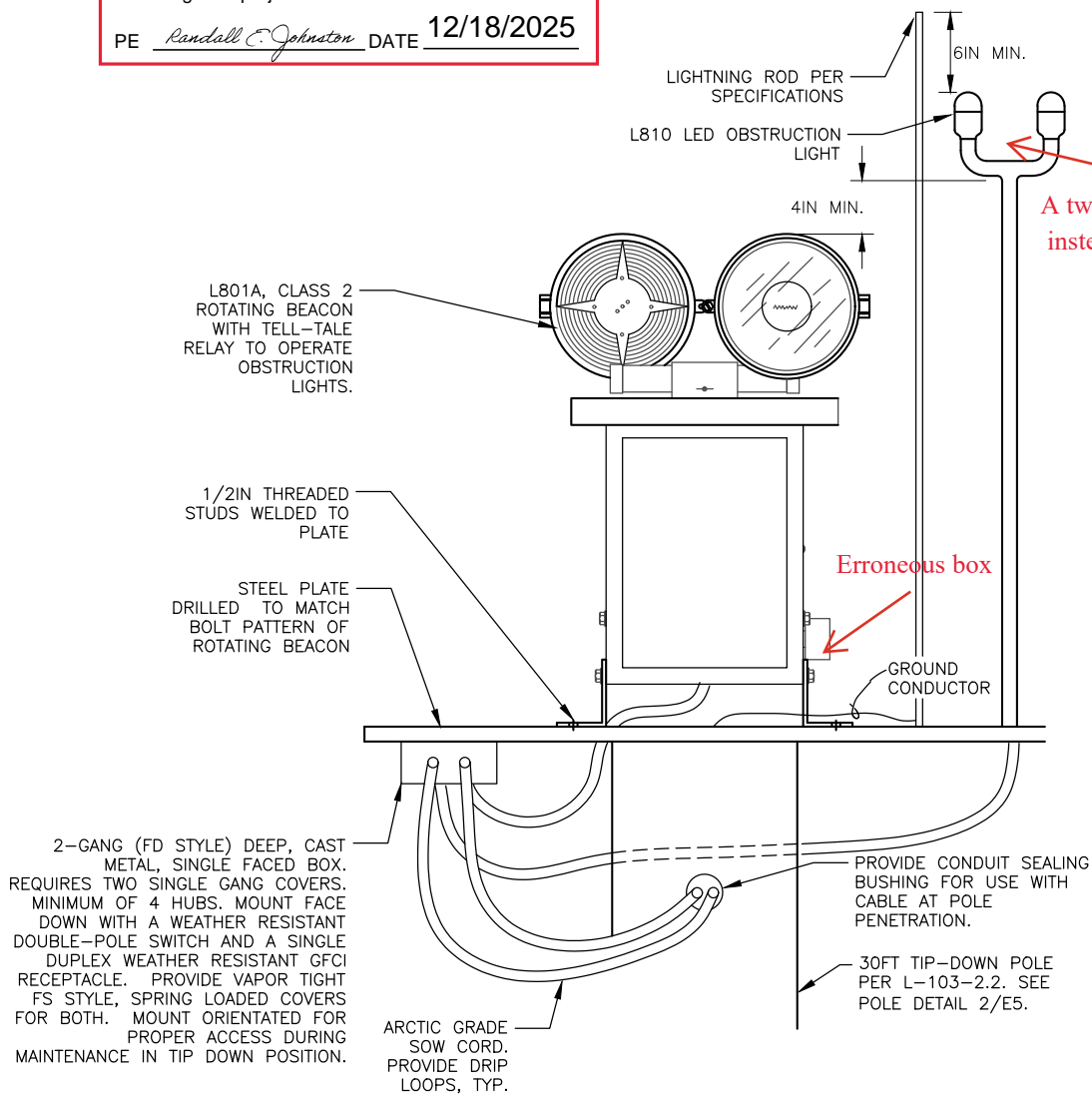
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 SHEET: E4 OF E6
 OF XX

**AS BUILT, B&B ELECTRIC,
STEVE SHANER, 8/11/2025**

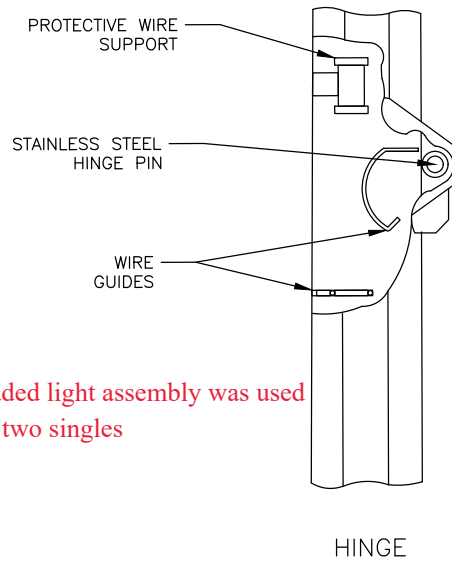
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE *Randall E. Johnston* DATE **12/18/2025**

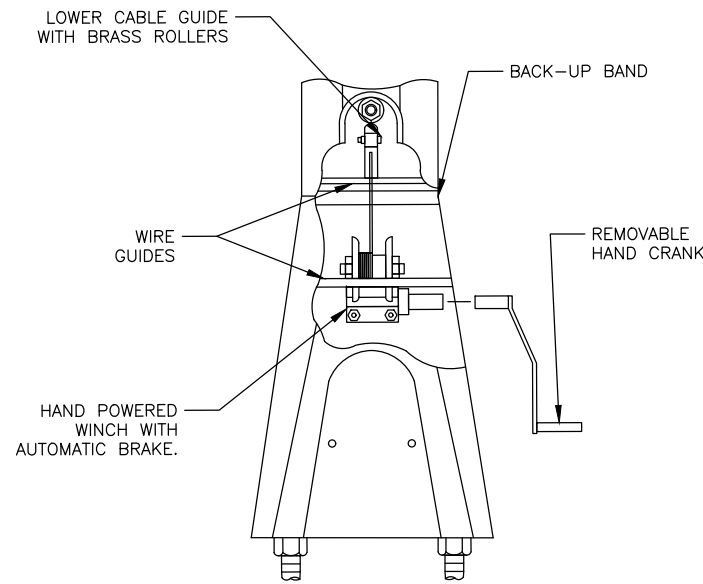
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 Drawn By: SNS
 Checked By: EWC



1 ROTATING BEACON MOUNTING DETAIL
E5 NTS



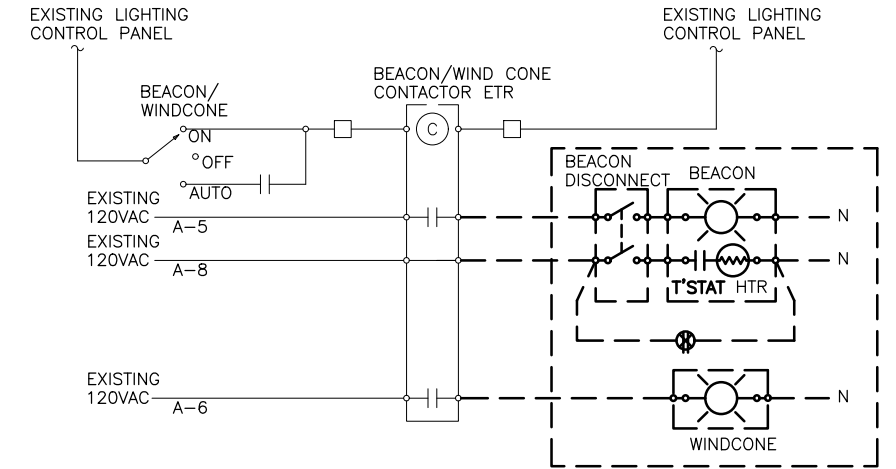
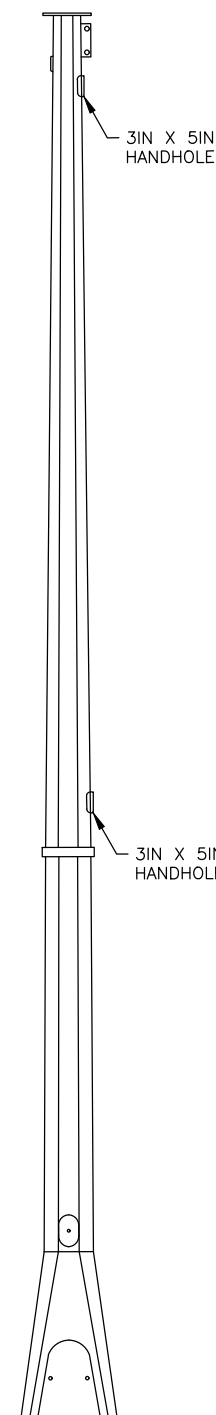
A twin headed light assembly was used instead of two singles



NOTES:

1. PROVIDE STRUCTURAL FOUNDATION PER SECTION L-103. AND SHEET C2
2. VERIFY ANCHOR BOLT SIZE, BOLT CIRCLE, AND FOUNDATION SIZE WITH MANUFACTURER'S SHOP DRAWINGS.
3. PROVIDE A #3/0 BARE COPPER GROUND RING, A MINIMUM OF 12" OUTSIDE THE STRUCTURAL BASE, MINIMUM 30" DEEP AND A MINIMUM LENGTH OF 20'. BOND GROUND RING TO GROUND ROD, BEACON GROUND CONDUCTOR TO GROUND RING, AND COUNTERPOISE TO GROUND RING WITH EXOTHERMIC WELDS.

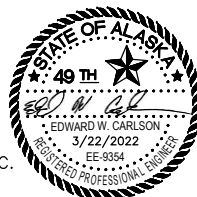
2 HINGED POLE BEACON TOWER DETAIL
E5 NTS



3 ROTATING BEACON AND WIND CONE CONTROL DETAIL
E5 NTS

R&M PROJECT NUMBER: 2604.03

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AND PUBLIC FACILITIES
SOUTH COAST REGION**

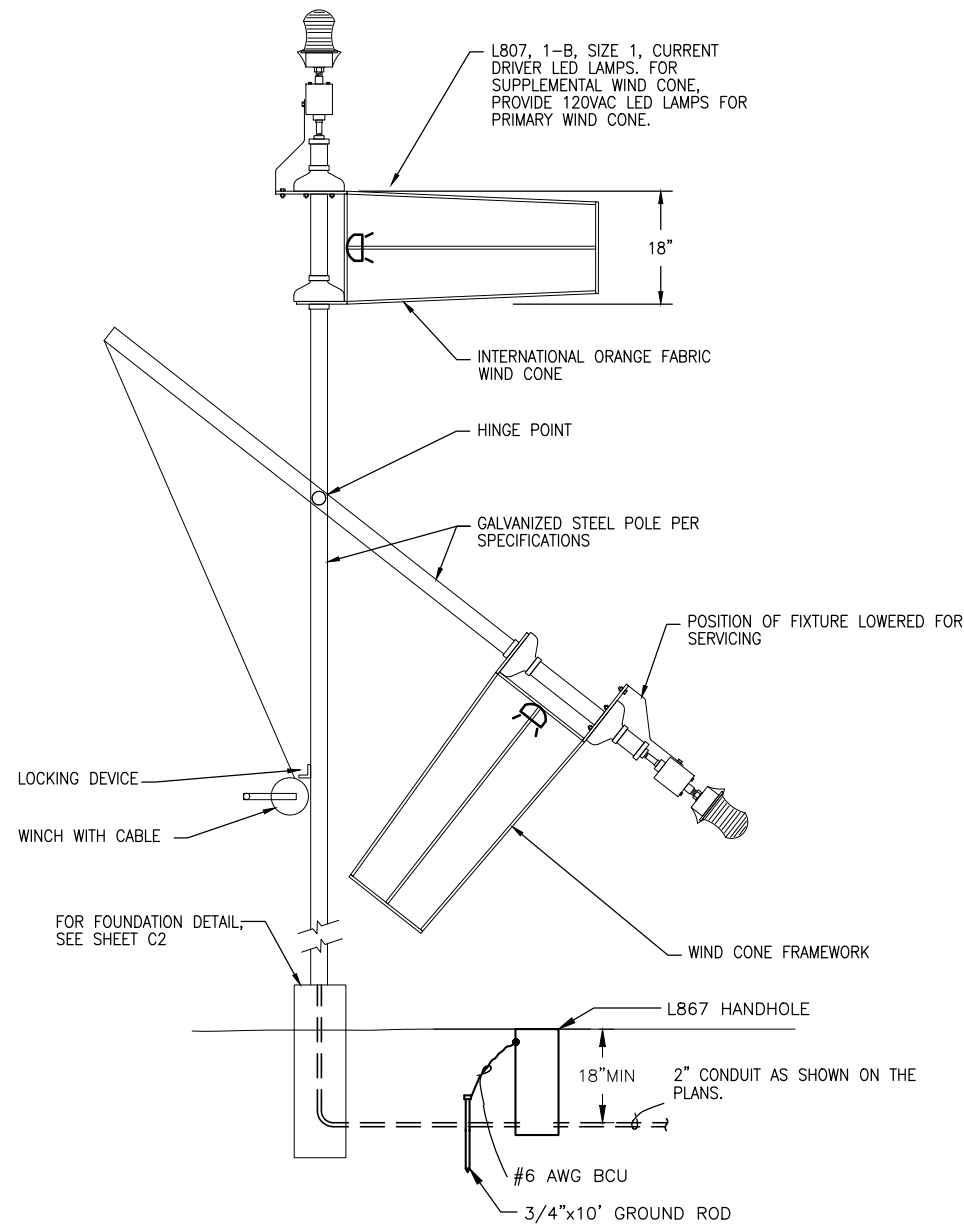
ST. PAUL AIRPORT
ST PAUL, ALASKA
AIRPORT VISUAL AID REPLACEMENT
PROJECT No. SFAPT00212
AIP No. 3-02-0277-007-2023
ROTATING BEACON DETAILS

DATE: 02/08/2024
SHEET: E5 OF E6

BORDER OUTLINE MEASURES
32x21-SCALE ACCORDINGLY
CONSTRUCTION DOCUMENTS

Date Revised: 3/14/2018 1:47:35 PM
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 Designed By: LPO
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 Checked By: EWC

R&M PROJECT NUMBER: 2604.03



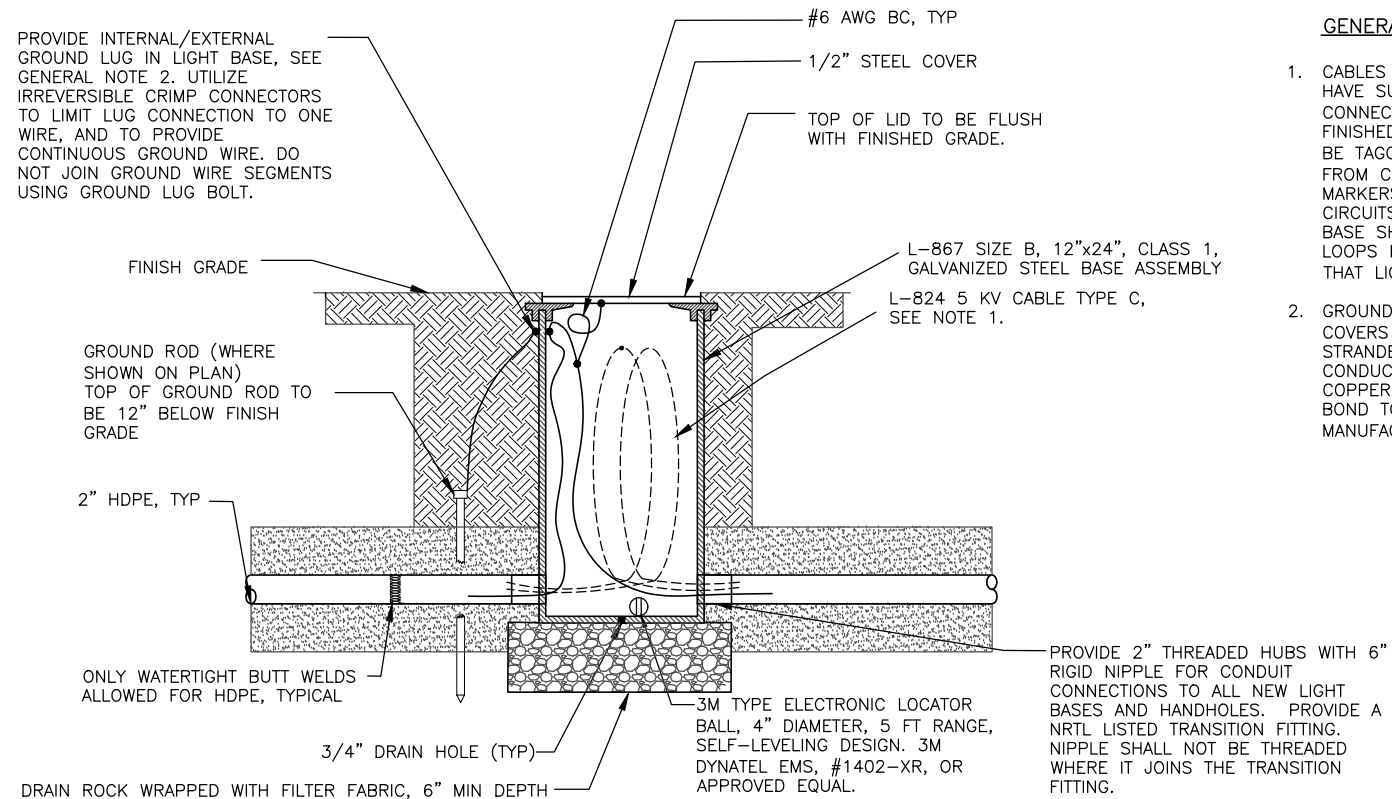
NOTE: NEW WIND CONES SHALL BE POWDER COATED AND INCLUDE STAINLESS STEEL WINCH, CABLE AND HARDWARE.

1 L-807 TIP DOWN WIND CONE
E6 NTS

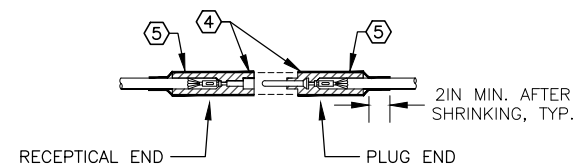
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE Randall Johnston DATE 12/18/2025

**AS BUILT, B&B ELECTRIC,
STEVE SHANER, 8/11/2025**

PROVIDE INTERNAL/EXTERNAL GROUND LUG IN LIGHT BASE, SEE GENERAL NOTE 2. UTILIZE IRREVERSIBLE CRIMP CONNECTORS TO LIMIT LUG CONNECTION TO ONE WIRE, AND TO PROVIDE CONTINUOUS GROUND WIRE. DO NOT JOIN GROUND WIRE SEGMENTS USING GROUND LUG BOLT.

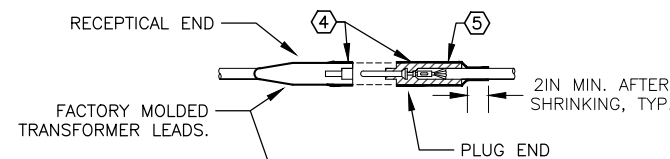


2 L-867 HANDHOLE DETAIL
E6 NTS



TYPE B

FOR SPLICES FOR USE AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT



TYPE C

FOR SPLICES AT RUNWAY LIGHTS

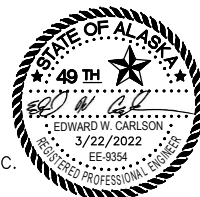
3 L-823 CONNECTOR DETAILS
E6 NTS

GENERAL NOTES:

- CABLES AND GROUND STRAPS SHALL HAVE SUFFICIENT SLACK TO ALLOW CONNECTORS TO BE DRAWN 36" ABOVE FINISHED GRADE. ALL CABLES SHALL BE TAGGED WITH CIRCUIT NUMBER 6" FROM CONNECTOR WITH "FLAG TAG" MARKERS OR APPROVED EQUAL. CIRCUITS PASSING THROUGH LIGHT BASE SHALL NOT REQUIRE SERVICE LOOPS IF CABLE IS NOT INCIDENTAL TO THAT LIGHT'S CIRCUITRY.
- GROUND FIXTURES AND HANDHOLE COVERS WITH MINIMUM #6 AWG STRANDED COPPER, GREEN INSULATED CONDUCTOR OR WITH EQUIVALENT COPPER BRAIDED GROUND STRAP. BOND TO FIXTURE PER MANUFACTURER'S INSTRUCTIONS.

DETAIL NOTES:

- CABLE SHALL MEET SPECIFICATION L-824. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE. CONNECTOR SHALL BE SUPPLIED TO MATCH CABLE PER MANUFACTURER'S INSTRUCTIONS.
- 5 KV CONDUCTORS SHALL BE PENCILLED USING A PENCILING TOOL MANUFACTURED FOR USE ON #8 AWG, 5 KV, TYPE C AIRPORT CABLE, RIPLEY WS 49 OR APPROVED EQUAL.
- CONNECTORS SHALL BE CRIMPED USING A RATCHET TYPE CRIMPING TOOL PER MANUFACTURER'S RECOMMENDATION. EACH CRIMP SHALL BE MADE WITH TWO CRIMPS, ROTATED 90DEG.
- WRAP WITH A MINIMUM OF ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1.5IN ON EACH SIDE OF JOINT. COVER WITH HEAT SHRINK, SEE NOTE 5.
- HEAT SHRINKABLE TUBING SHALL BE 16IN LONG, HAVE INTERNAL ADHESIVE FULL LENGTH, AND APPLIED FULL LENGTH TO CONNECTORS & CABLE TO HAVE A COMPLETE SEAL.



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SOUTH COAST REGION

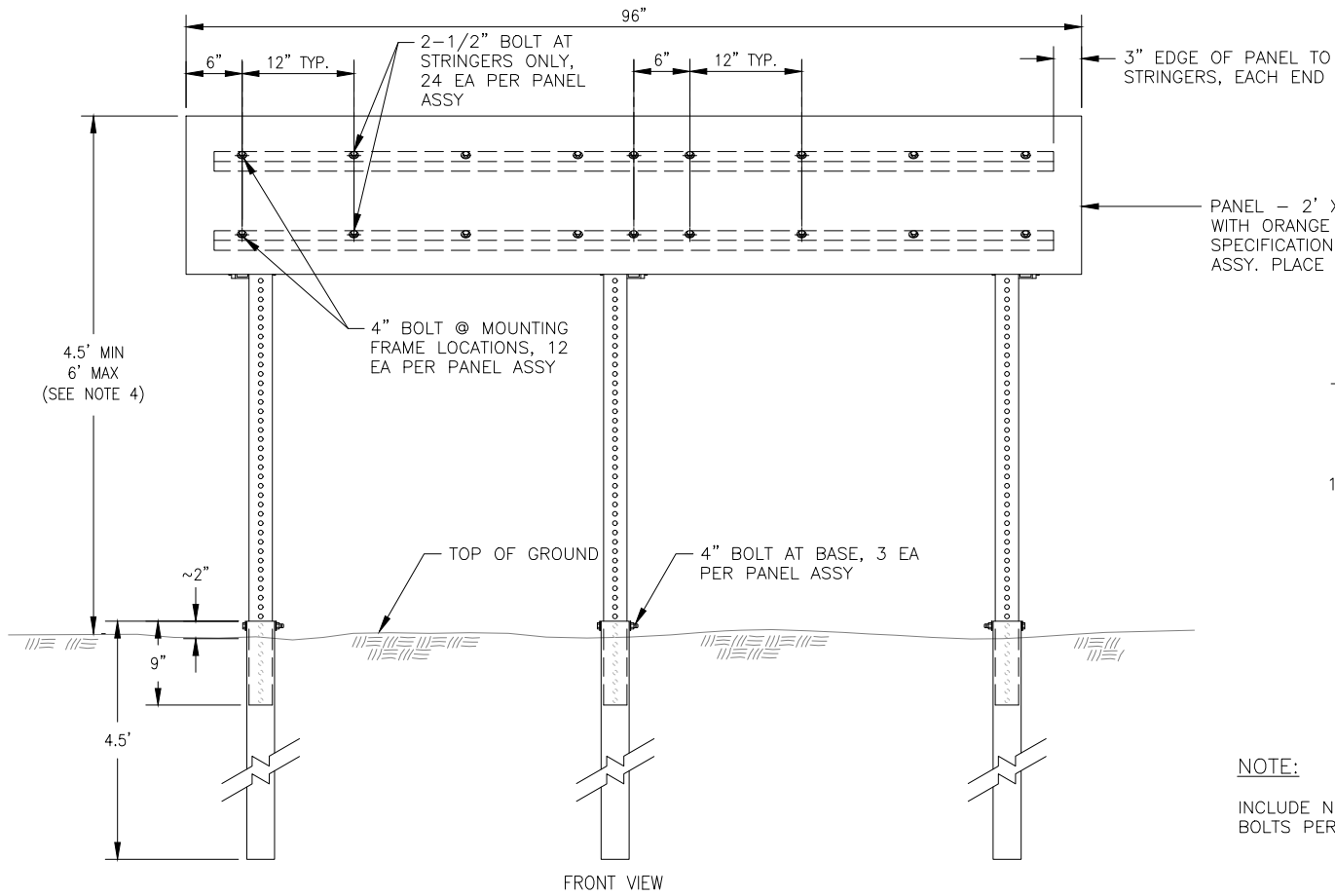
ST. PAUL AIRPORT
ST PAUL, ALASKA
AIRPORT VISUAL AID REPLACEMENT
PROJECT No. SFAPT00212
AIP No. 3-02-0277-007-2023
WIND CONE DETAIL

DATE: 02/08/2024
SHEET: E6 OF E6

BORDER OUTLINE MEASURES
32x21-SCALE ACCORDINGLY
CONSTRUCTION DOCUMENTS

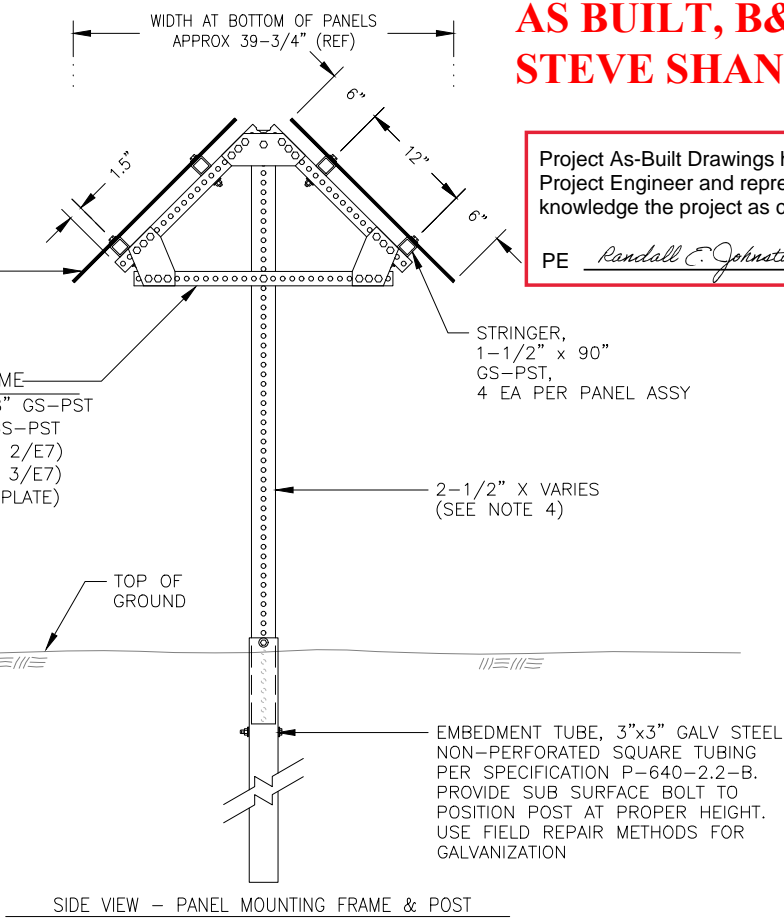
**AS BUILT, B&B ELECTRIC,
STEVE SHANER, 8/11/2025**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE Randall E. Johnston DATE 12/18/2025



PANEL MOUNTING FRAME

- 2 EA TOP CHORD 1-1/2" X 20-3/8" GS-PST
- 1 EA BOTTOM CHORD 1-1/2" X 27" GS-PST
- 1 EA PEAK GUSSET PLATE (SEE DETAIL 2/E7)
- 2 EA HEEL GUSSET PLATE (SEE DETAIL 3/E7)
- 18 EA 2-1/2" BOLTS (6 PER GUSSET PLATE)
- 2 EA 5" BOLTS FOR POST ATTACHMENT



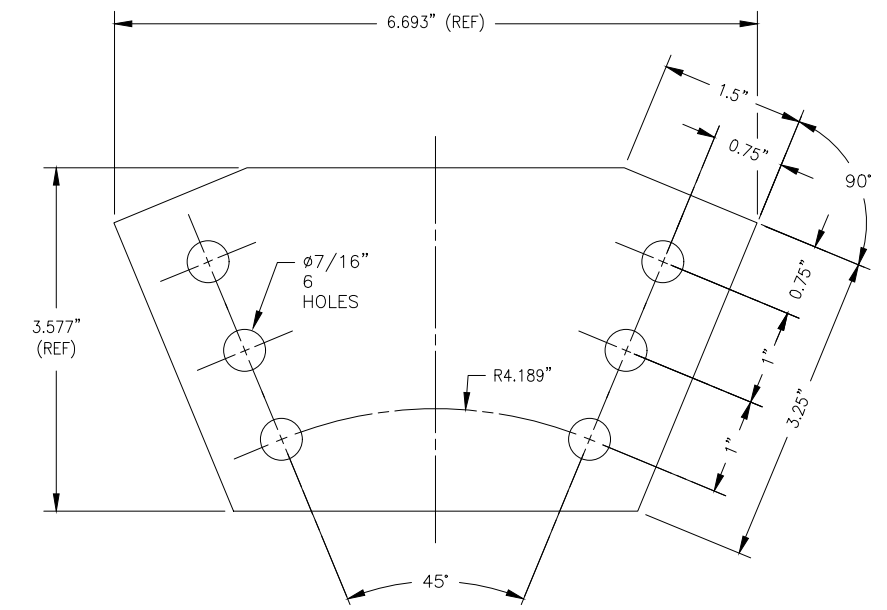
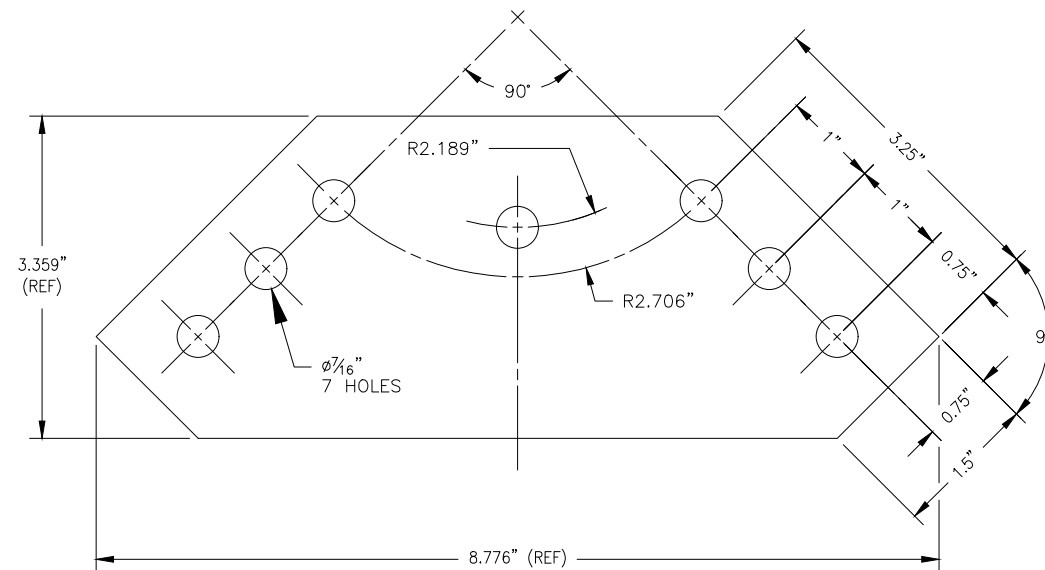
NOTE:
INCLUDE NUTS AND WASHERS WITH ALL BOLTS PER NOTE 2.

1 SEGMENTED CIRCLE PANEL ASSEMBLY SCALE: NTS

FASTENER SPECIFICATION TABLE		
FASTENER TYPE	STEEL HOT DIPPED GALVANIZED	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	ASTM A 563	ASTM F 594
WASHERS	ASTM F 844	ASTM A 480

SEGMENTED CIRCLE NOTES:

- ALL STRUCTURAL MEMBERS OF PANEL ASSEMBLY ARE GS-PST (GALVANIZED SQUARE - PERFORATED STEEL TUBING), SIZE AS INDICATED IN DRAWING, IN CONFORMANCE WITH SECTION P-640-2.2.b.
- ALL BOLTS, NUTS, AND WASHERS SHALL CONFORM TO FASTENER SPECIFICATION TABLE INCLUDED IN THIS PLAN SET. ALL BOLTS USED IN PANEL ASSEMBLY SHALL BE 3/8" DIA. X LENGTH CALLED OUT IN PLANS, UNLESS OTHERWISE NOTED. FOR EACH BOLT INCLUDE 1 EA 3/8" NUT, AND 2 EA 3/8" WASHERS (7/16 ID X 1" OD) - ONE AT THE BOLT HEAD AND ONE AT THE NUT.
- GUSSET PLATES SHALL CONFORM TO AIRPORT SPECIFICATION P-640-2.2 c(1) INCLUDED WITH THIS PLAN SET.
- FINISH HEIGHT OF ALL INSTALLED PANEL ASSEMBLIES COMPRISING A SINGLE SEGMENTED CIRCLE SHALL BE UNIFORM WITH A MAXIMUM VARIANCE OF 6" THROUGHOUT CIRCLE LAYOUT.
- PANEL ASSEMBLIES ARE TO BE REMOVABLE FROM EMBEDMENT TUBES FOR MAINTENANCE PURPOSES.
- DIMENSIONS LABELED "(REF)" ARE FOR INFORMATIONAL PURPOSES ONLY.
- INSTALLATION OF POSTS MAY REQUIRE MINOR TRENCHING IF OCCASIONAL ROCK IS ENCOUNTERED IN THE PAD BORROW EMBANKMENT. BACKFILL EXCAVATED MATERIAL AND RESTORE LEVEL SURFACE. THIS WORK IS SUBSIDIARY TO THE RESPECTIVE P-640 PAY ITEM AT EACH LOCATION.



4/11/2024

BY	DATE	REVISION
	4/11/2024	Sheet Added

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CONSTRUCTION DOCUMENTS
ST. PAUL AIRPORT
ST PAUL, ALASKA
AIRPORT VISUAL AID REPLACEMENT
PROJECT No. SFAPT00212
AIP No. TBD
SEGMENTED CIRCLE DETAILS

DATE:
SHEET:
E7 OF E8

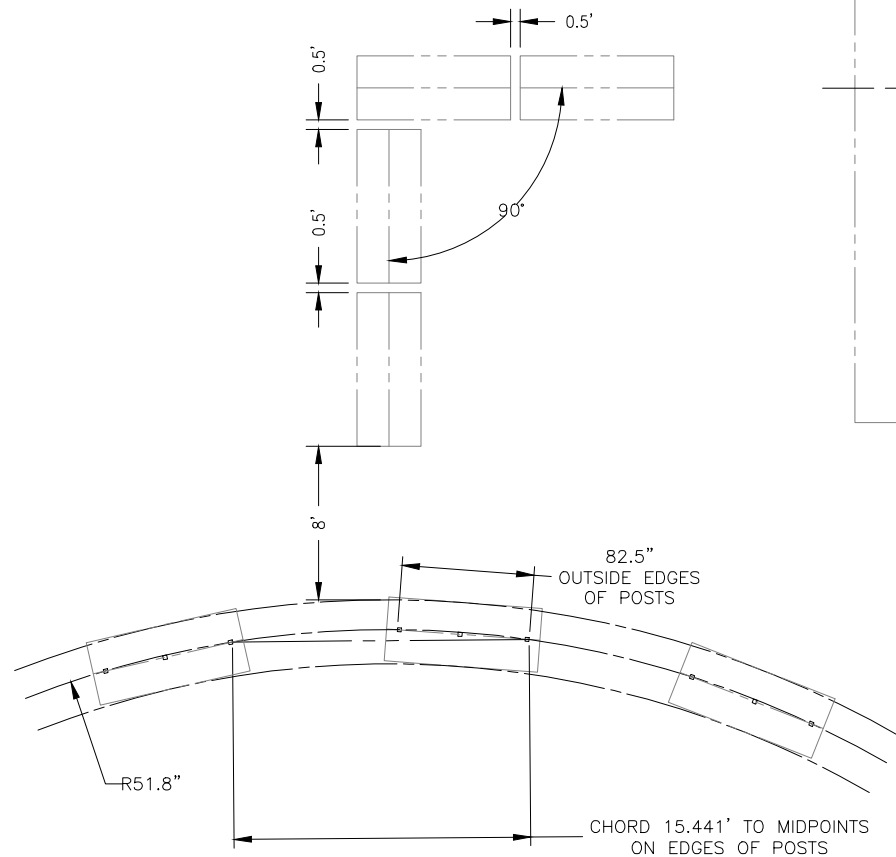
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 Drawn By: MW
 Checked By: PJ
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STEVE SHANER, 8/11/2025**

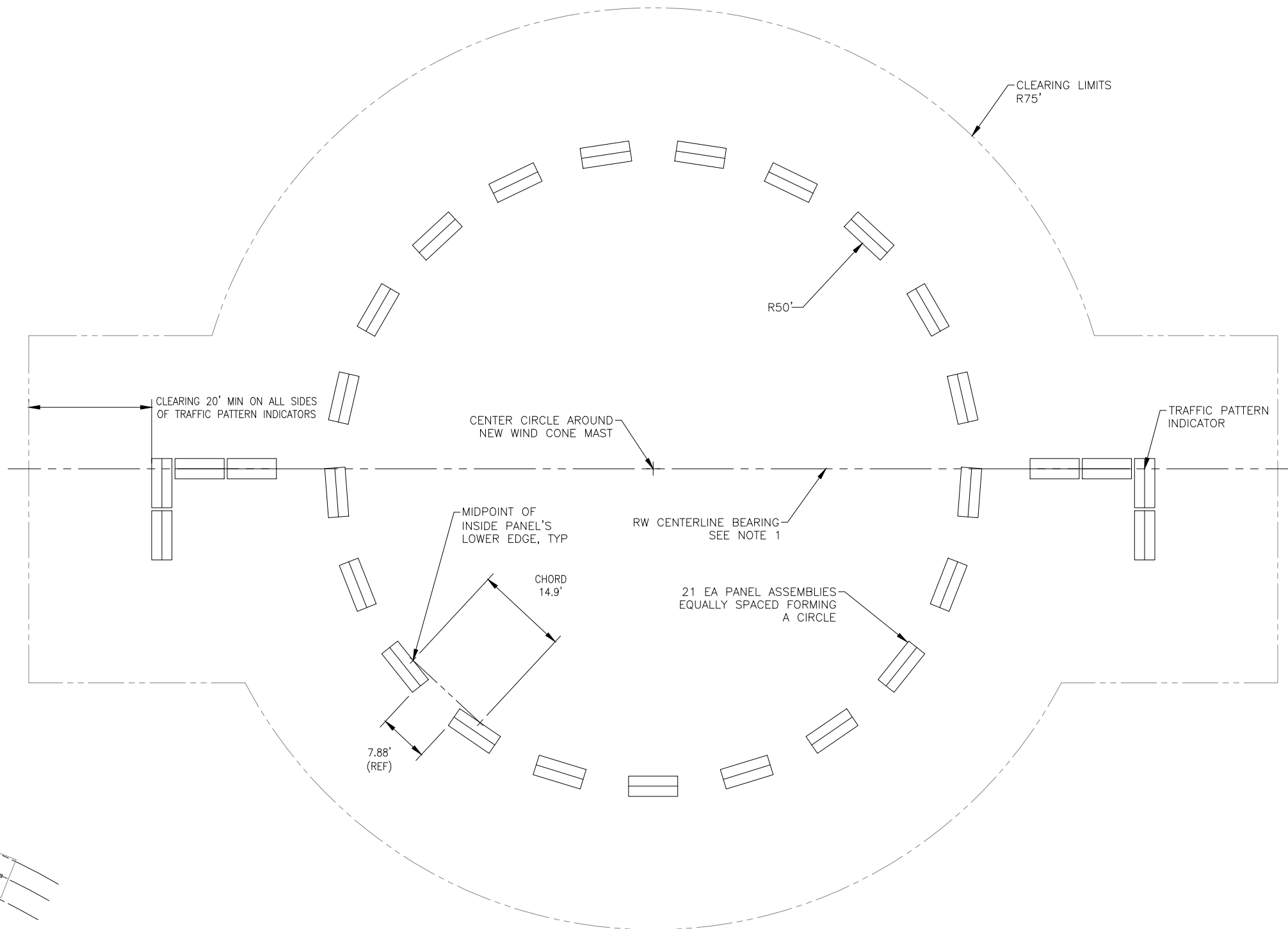
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Randall C. Johnston DATE 12/18/2025

Date Revised: 4/10/2024 2:21:15 PM
 Drawn By: MW
 Checked By: PJ
 Layout Name: Segmented Circle Details
 File Path & Name: Q:\S\N\SFAP\00212\Plans\set



1 LAYOUT DETAIL
 E8 SCALE: NTS



2 SEGMENTED CIRCLE LAYOUT
 E8 SCALE: NTS

TRAFFIC PATTERN INDICATOR NOTES:

1. FIELD VERIFY THE BEARING OF THE EXISTING RUNWAY CENTERLINE. ALIGN TRAFFIC PATTERN INDICATORS WITH THE BEARING OF THE RESPECTIVE RUNWAY.

4/11/2024



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	4/11/2024	Sheet Added

**STATE OF ALASKA
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CONSTRUCTION DOCUMENTS
ST. PAUL AIRPORT
 ST PAUL, ALASKA
 AIRPORT VISUAL AID REPLACEMENT
 PROJECT No. SFAPT00212
 AIP No. TBD
 SEGMENTED CIRCLE DETAILS

DATE:
 SHEET:
 E8 OF E8