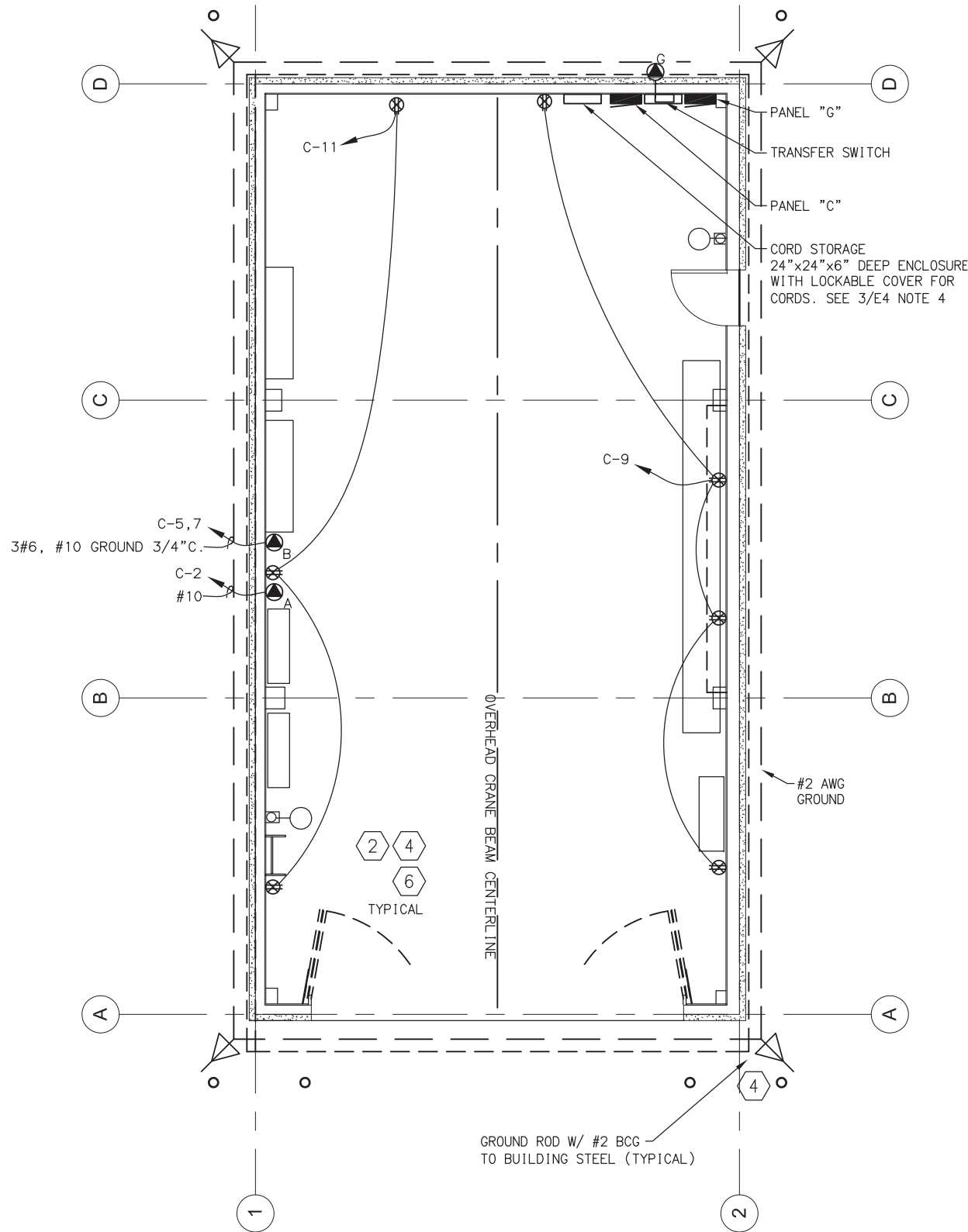
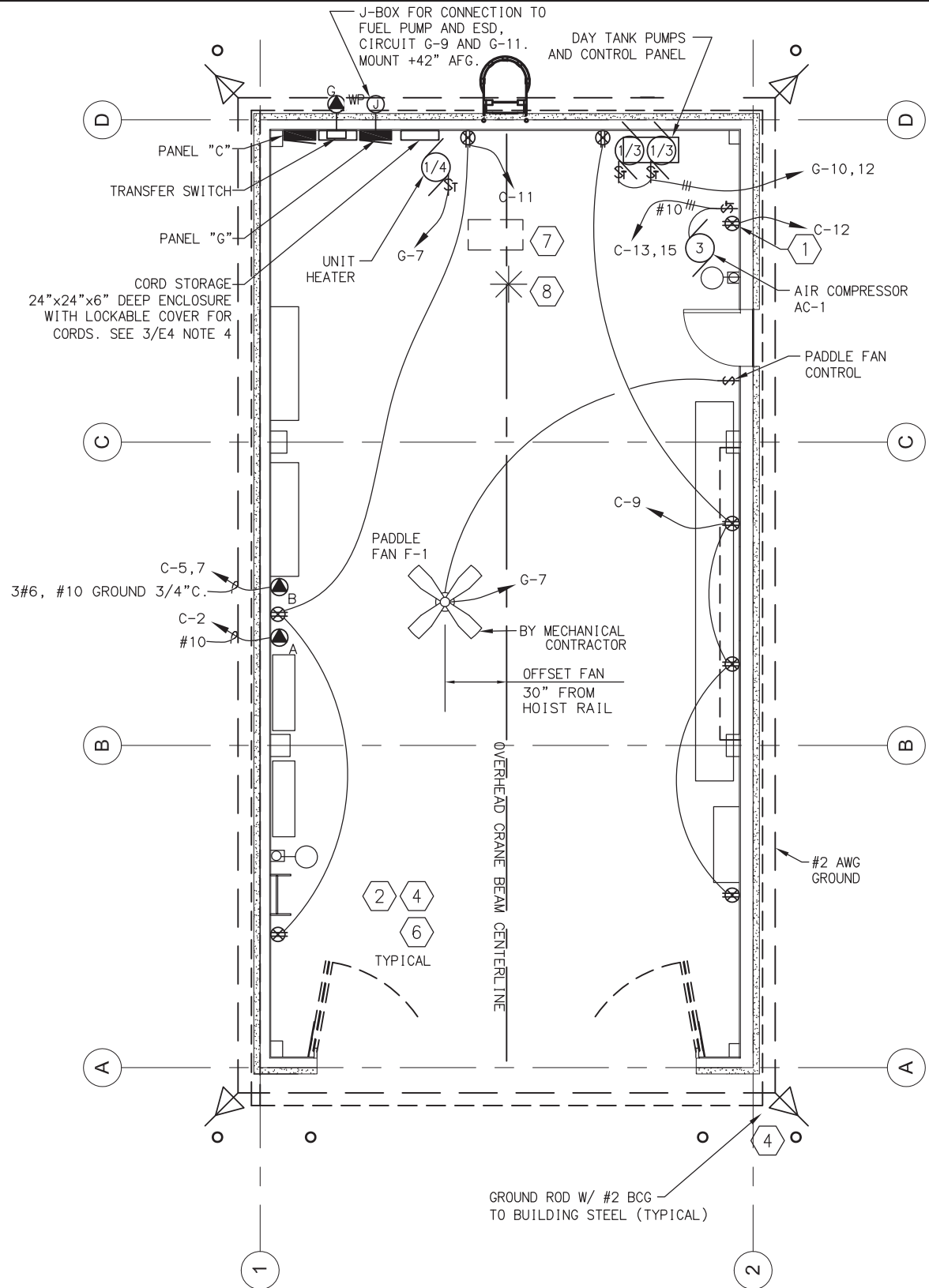
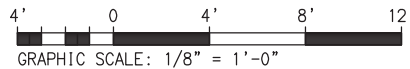


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File Path and Name: Z:\14014HBS - Hooper Bay SREB\Working\Drawings\14014_E3.dwg
Designed By:
Drawn By:
Checked By:



1
E3
POWER PLAN - UNHEATED SREB (SREB #2)
1/8" = 1'-0"

- NOTES:
- SEE ELECTRICAL NOTES FOR THIS DETAIL ON SHEET E2.
 - REFER TO AIRPORT LIGHTING SHEETS FOR METER PANEL LOCATION AND DETAIL.



2
E3
POWER PLAN - HEATED SREB (SREB #1)
1/8" = 1'-0"

- NOTES:
- SEE ELECTRICAL NOTES FOR THIS DETAIL ON SHEET E2.
 - REFER TO AIRPORT LIGHTING SHEETS FOR METER PANEL LOCATION AND DETAIL.

PRE-PS&E

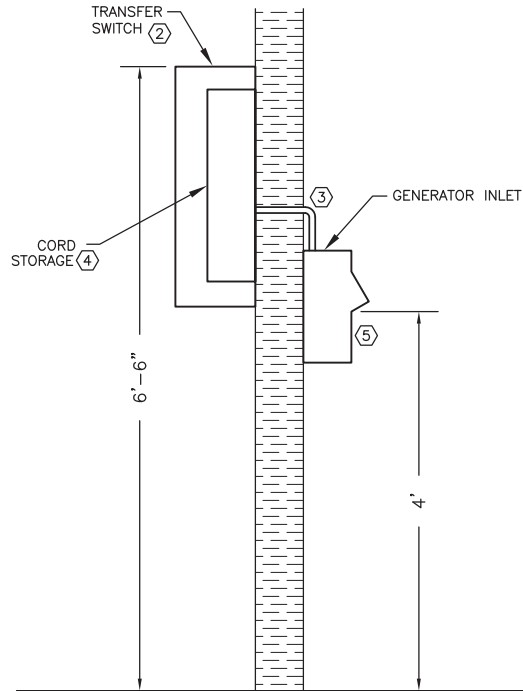
PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

BY	DATE	REVISION

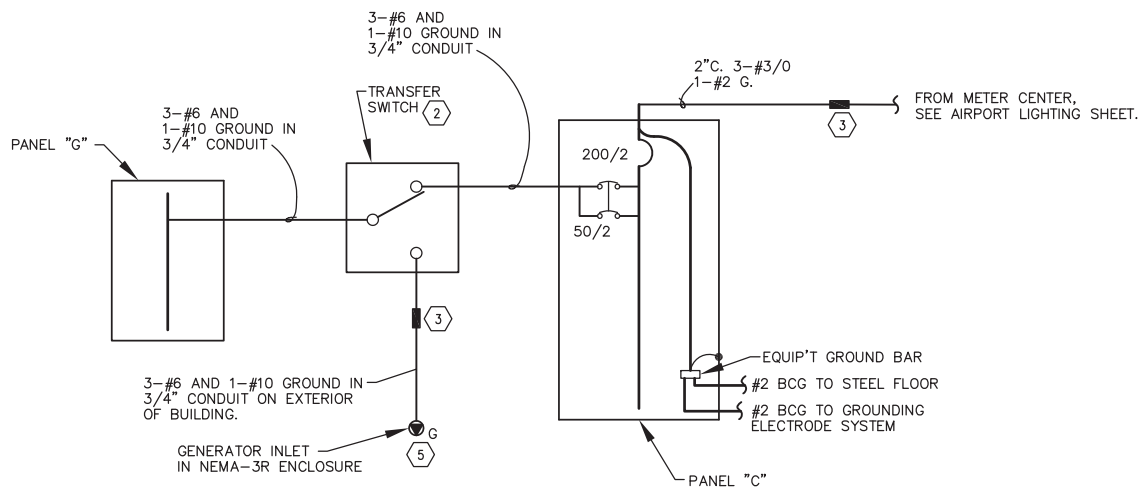
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION	HOOPER BAY AIRPORT HOOPER BAY, ALASKA SNOW REMOVAL EQUIPMENT BUILDING PROJECT No. 57419 AIP 3-02-0126-00X-20XX ELECTRICAL POWER PLAN & DETAILS	DATE: 6/5/2014
		SHEET: E3 OF X
		AS-BUILT SHEET:

DETAIL NOTES:

- ① NOT USED.
- ② 60-AMP 250-VOLT NON-FUSED TWO-POLE DOUBLE-THROW TRANSFER SWITCH, SQUARE-D CATALOG NO. DTU222 OR APPROVED EQUAL.
- ③ SEAL CONDUIT PENETRATION ON INSIDE AND OUTSIDE BETWEEN THE INTERIOR AND EXTERIOR OF THE BUILDING WITH DUX SEAL.
- ④ PROVIDE A 20-FOOT "ARCTIC" POWER CORD CONTAINING THREE #8 AWG POWER CONDUCTORS AND ONE #10 AWG GROUND CONDUCTOR WITH A CS63-64C* CONNECTOR ON ONE END AND A CS63-65C* PLUG ON THE OTHER. PROVIDE THE FOLLOWING 36-INCH LONG ADAPTER CORDS.
- (A) 1-4C #10 POWER CORD WITH A CS63-64C* CONNECTOR ON ONE END AND A NEMA-L14-30 PLUG ON THE OTHER.
- (B) 1-4C #12 POWER CORD WITH A CS63-64C* CONNECTOR ON ONE END AND A NEMA-L14-20 PLUG ON THE OTHER. PROVIDE WALL CABINET NEXT TO PANEL-G TO STORE THE CORDS.
- ⑤ MOUNT A CS63-75C* (MALE) GENERATOR FLANGED INLET IN A NEMA-3R GALVANIZED/PAINTED ENCLOSURE WITH THE INLET 48 INCHES ABOVE THE FLOOR LEVEL - MIDWEST ELECTRIC PRODUCTS CAT. NO. U050N OR APPROVED EQUAL. (OTHER ACCEPTED MANUFACTURERS - GE, CROUSE-HINDS).
- * CALIFORNIA STANDARD 125/250-VOLT, 3-POLE, 4-WIRE, NON-NEMA, 50-AMP WIRING DEVICE, LEVITON CATALOG # AS SHOWN, OR APPROVED EQUAL. (OTHER ACCEPTED MANUFACTURERS - CROUSE-HINDS, APPLETON).

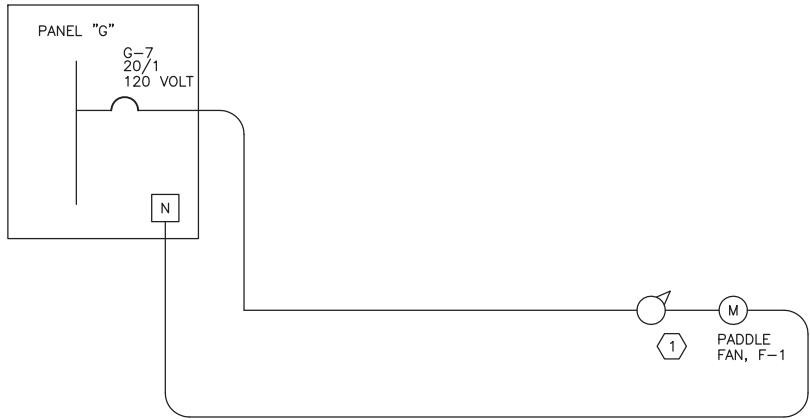


3
E4
NTS
PANEL "G" - GENERATOR INLET ELEVATION

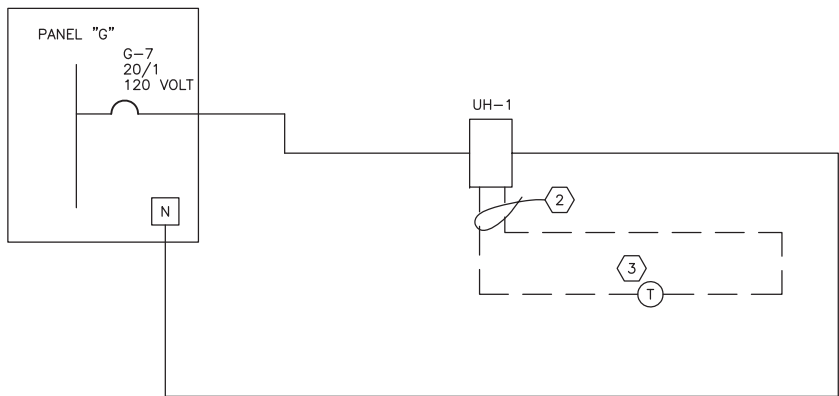


4
E4
NTS
POWER ONE LINE DIAGRAM

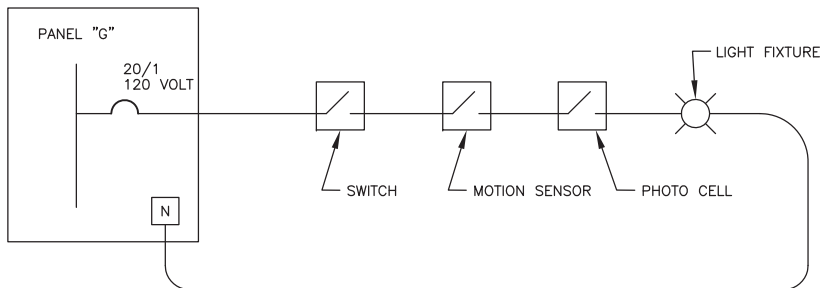
NOTE: REFER TO AIRPORT LIGHTING SHEETS FOR METER PANEL LOCATION AND DETAIL.



1
E4
NTS
PADDLE FAN CONTROL DIAGRAM



2
E4
NTS
HEATING CONTROL WIRING DIAGRAM



5
E4
NTS
EXTERIOR LIGHTING CONTROL DIAGRAM

NOTES:

- ① ELECTRONIC SPEED CONTROL - SUPPLIED OR RECOMMENDED BY THE PADDLE FAN MANUFACTURER.

NOTES:

- ① NOT USED.
- ② THERMOSTAT WIRE - CAN RUN EXPOSED BUT MUST BE STAPLED TO WAINSCOT 24 INCHES O.C.
- ③ THERMOSTAT FOR UNIT HEATER - NON MERCURY TYPE.

SREB GENERAL NOTES:

1. THE WORK SHOWN ON DETAILS 1/E4 AND 2/E4 IS APPLICABLE TO THE HEATED BUILDING, SREB #1.
2. THE WORK SHOWN ON DETAILS 3/E4, 4/E4 AND 5/E4 IS APPLICABLE TO THE HEATED BUILDING, SREB #1 AND TO THE UNHEATED BUILDING, SREB #2.

Date Revised:	6/04/2014, 8:36 AM	Designed By:	
Layout Name:	Power (3)	Drawn By:	
File Path and Name:	Z:\14014HBS - Hooper Bay SREB\Working\Drawings\14014_E4.dwg	Checked By:	



PRE-PS&E

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
PROJECT No. 57419
AIP 3-02-0126-00X-20XX
HEAT CONTROLS & POWER DETAILS

DATE:
6/5/2014
SHEET:
E4 OF X
AS-BUILT SHEET:

S-00.11

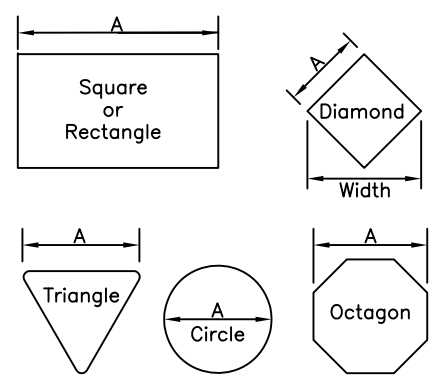
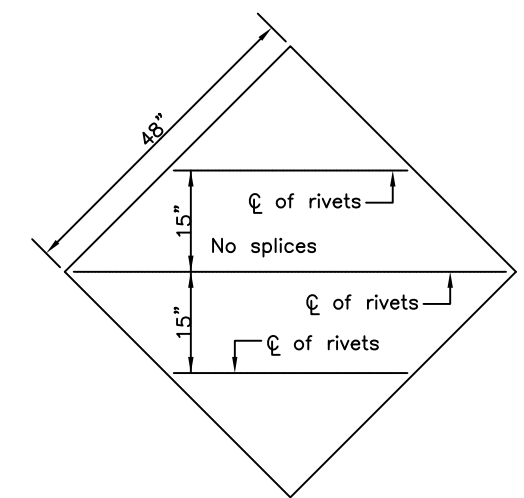
GENERAL NOTES

1. See the standard specifications for the aluminum alloys that you may use for sign sheeting and wind framing members.
2. Fabricate all signs from 0.125" thick aluminum sheeting.
3. Sign fabricators may use alternates to the zee shaped framing member with approval of the engineer, if the frame manufacturer certifies their design equals or exceeds the strength of the zee shaped design.
4. Install one piece wind framing members on all signs up to 23.5' wide. Use one splice in each wind frame on all signs wider than 23.5'. Locate splices at least 18" from all posts and panel edges. Stagger splices in adjacent framing members at least 8.0' apart.
5. Attach wind framing members with rivets or with an engineer approved, double sided, high strength, adhesive tape. Clean and handle sheeting and framing members and apply tape in accordance with the tape manufacturer's written instructions. Install two rivets in both ends of each framing member.
6. Use 3/16" diameter rivets conforming to aluminum alloy 6061-T6 for cold driven rivets, or aluminum alloy 6061-T43 for hot driven rivets.
7. Sign fabricators may use sign panels extruded with integral framing with approval of the engineer, if the manufacturer certifies their design equals or exceeds the strength of the 0.125" thick panel with framing attached to it.
8. Frame all signs taller than 8.0' with five wind framing members located (H-0.15)/4 spaces. If needed, make a horizontal splice at the middle wind frame.
9. Do not use round pipes for sign supports.

TUBE SIGN POST SPACING							
Sign Width (feet)	No. of Posts	Distance Between Posts	Sign Overhang	Post Type			
				P.S.T.	Wood	Steel Tube	W-Shape
0.5 to 4.0	1	—	0.5W	X	X	X	
4.5 to 10.0	2	0.6W	0.2W	X	X	X	
10.5 to 11.0	2	6	Varies	X	X	X	
11.5 to 13.0	2	8	Varies				X
13.5 to 20.0	2	0.6W	0.2W				X
20.5 to 22.5	3	8	Varies				X
23.0 to 29.5	3	0.35W	0.15W				X
30.0 to 31.5	4	8	Varies				X
32.0 to 40.0	4	0.25W	0.125W				X

SIGN POST SPACING NOTES:

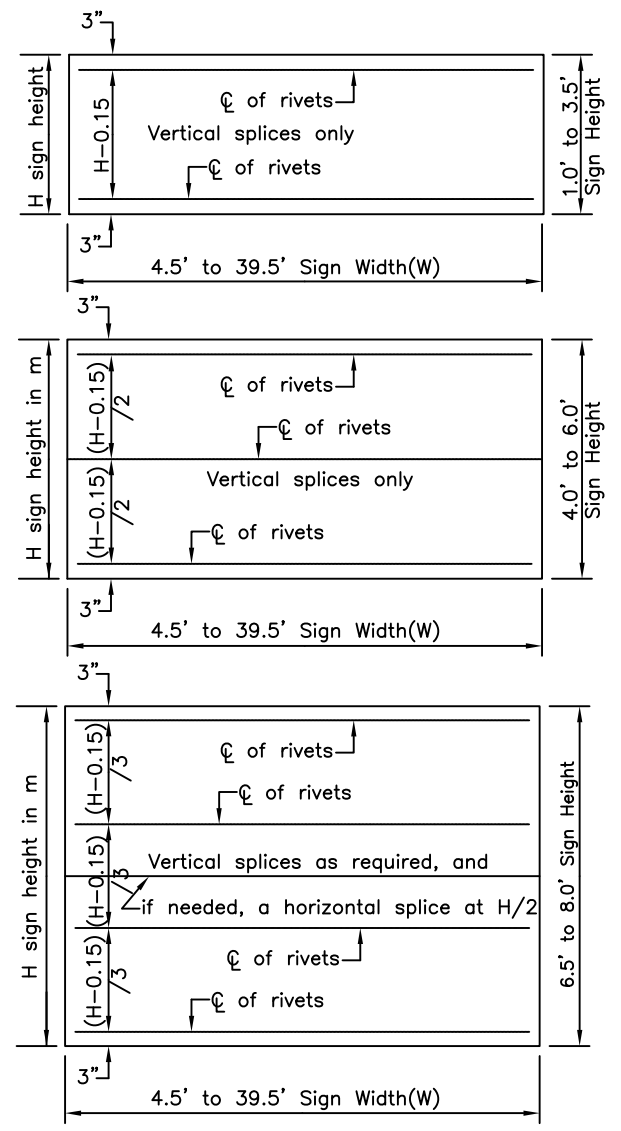
1. Install sign support in accordance with the table above, unless otherwise required by plans or specifications.
2. Exceptions:
 - a. Use one post for all E5-1 gore signs, regardless of width.
 - b. Use one 2.5" P.S.T. for all STOP signs, with or without street name signs.
3. Supports placed within 7' of each other must be acceptable for that use. See Standard Drawing S-30 for the sizes of wood posts and P.S.T.s that may be used within 7'. See Manufacturer's documentation for breakaway couplings and tubes that may be used within 7'.
4. See Standard Drawing S-31 for frangible couplings, hinges, and foundations for tube and W-shape sign supports.



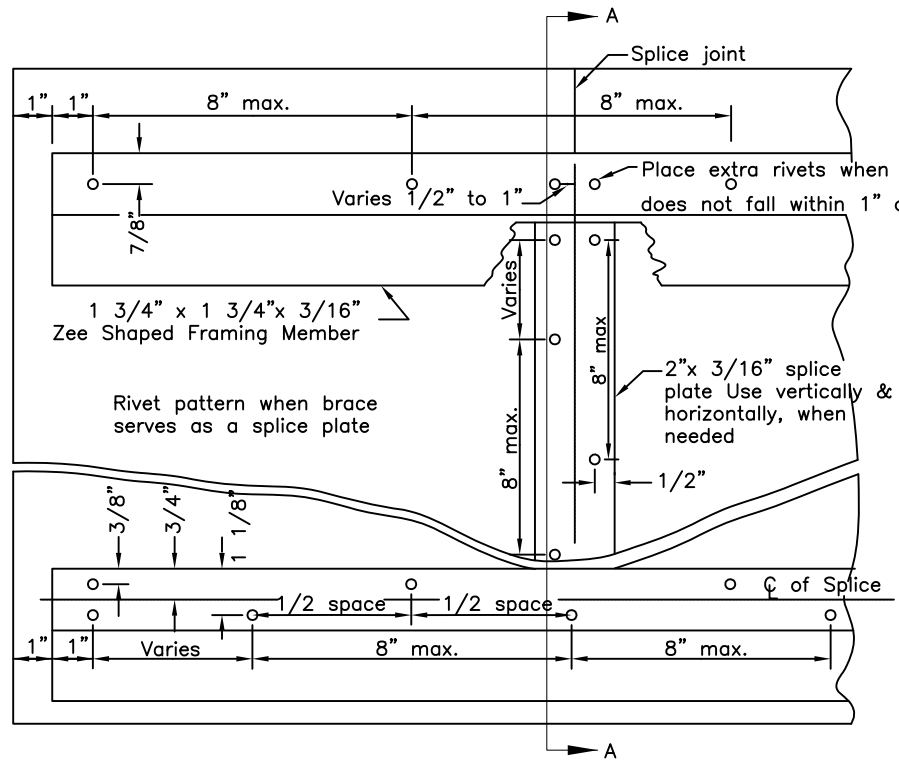
Maximum size unframed signs using 0.125" thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	48"
Rectangles	48"
Diamonds	48"
Triangles	48"
Rounds and Octagons	48"

Install wind framing on all signs that exceed the dimensions listed.

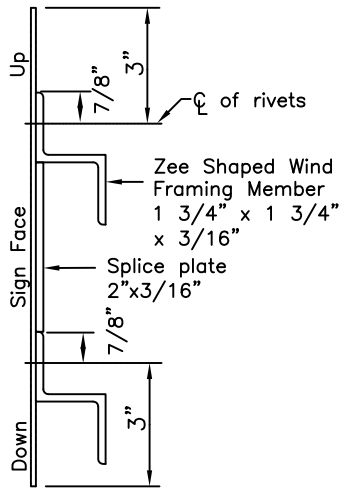
LIGHT SIGNS



WIND FRAMING LOCATIONS



RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE



SECTION A-A

REVISIONS		
Date	Description	By
4/28/10	Delete pipe, rev notes	KJS

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

**SIGN FRAMING AND
POST SPACING**

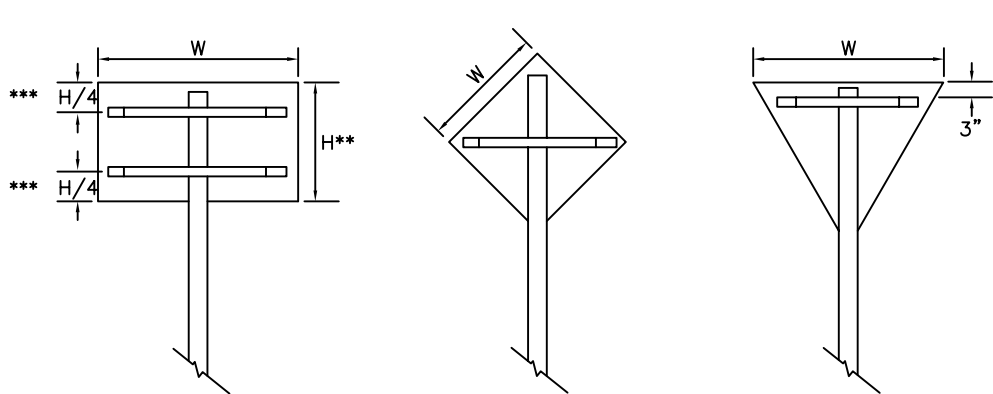
APPROVED

49th

4/28/10

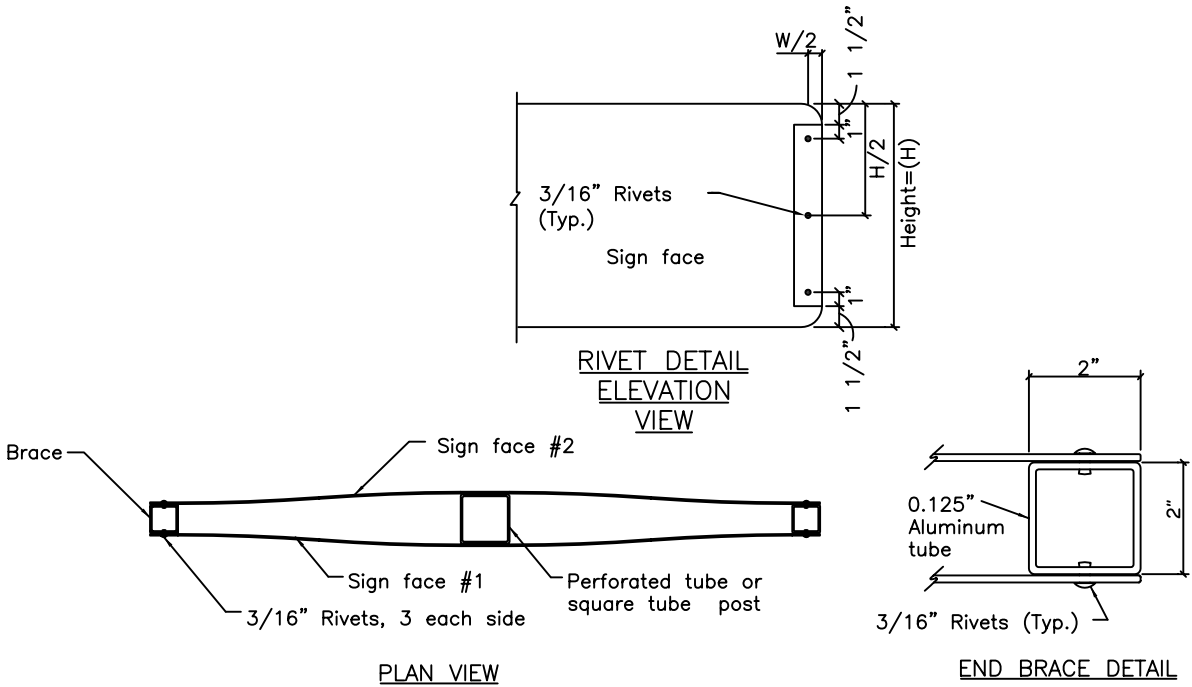
Date 5/31/12

S-01.00

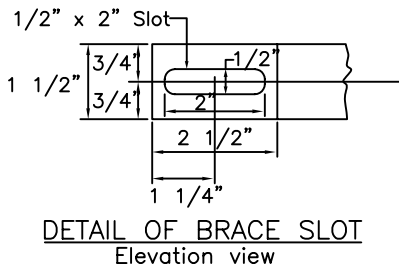


***Use one brace when $H \leq 18"$
Use two braces when $18" < H < 48"$
Use three braces when $H \geq 48"$
** Position of brace may be varied to match
Predrilled mounting holes in panel

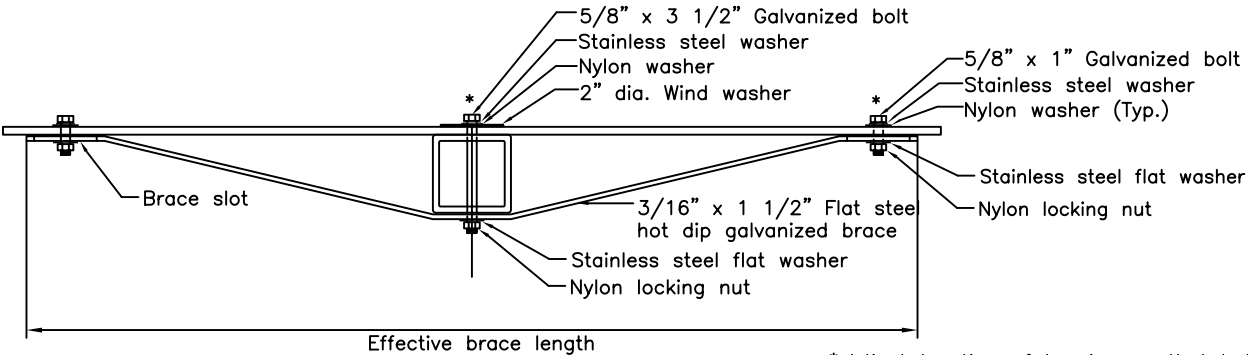
SIGN BRACING PLACEMENT



SMALL STREET NAME SIGN (D3-1, D3-1A, D3-1D) BRACING DETAILS



DETAIL OF BRACE SLOT
Elevation view



* Adjust location of bracing so that bolts
and washers will miss the sign legend

TUBE POST SIGN BRACING
Plan view

SIGN WIDTH(W)	EFFECTIVE BRACE LENGTH		
	WARNING	YIELD	OTHER
30"	36"	24"	24"
36"	42"	30"	30"
42"	48"	—	36"
48"	TWO POSTS	36"	42"

< 30" No bracing required and use square tube

REVISIONS		
Date	Description	By

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

BRACING FOR SIGNS
MOUNTED ON SINGLE POST



Date



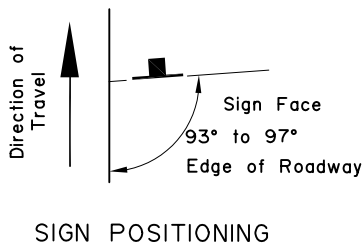
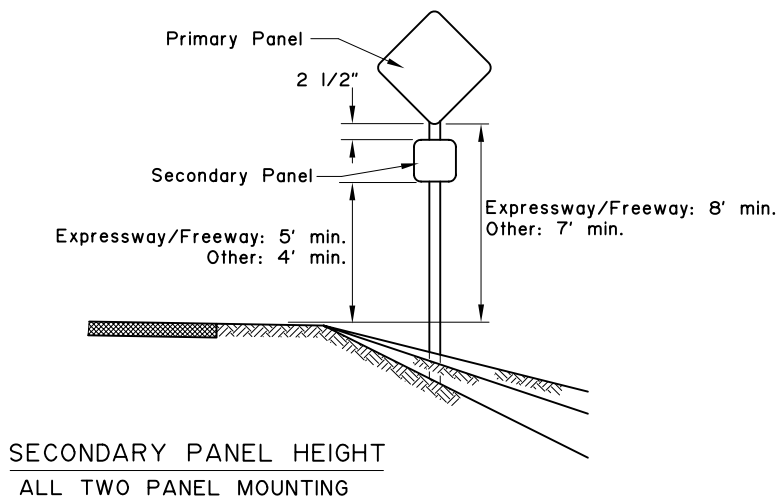
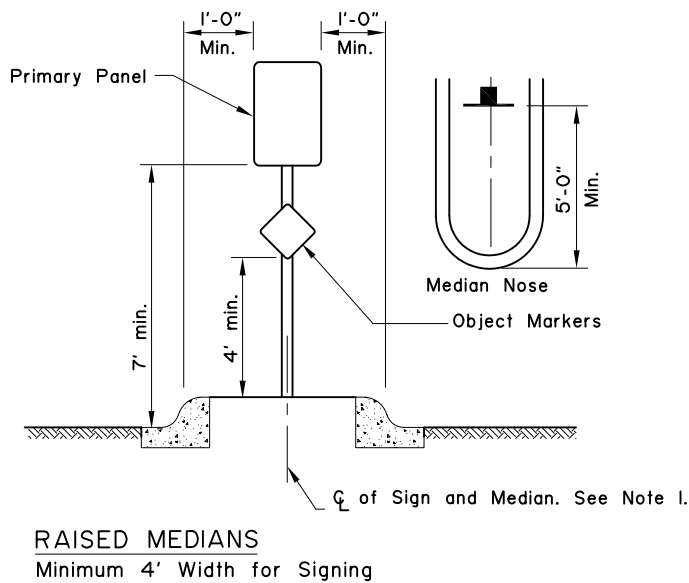
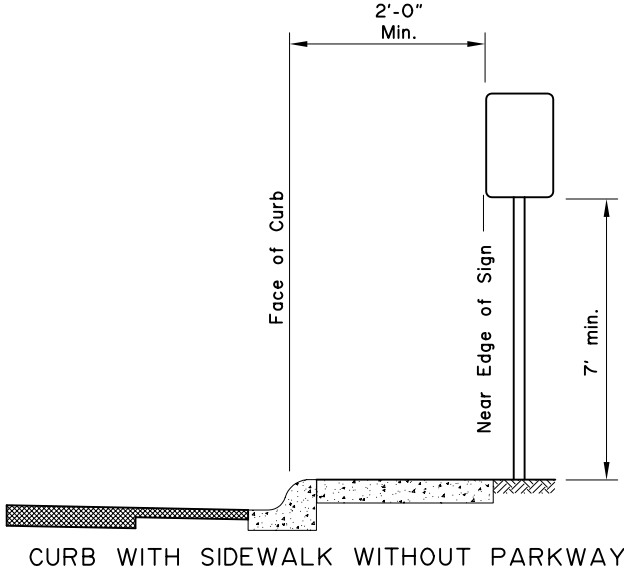
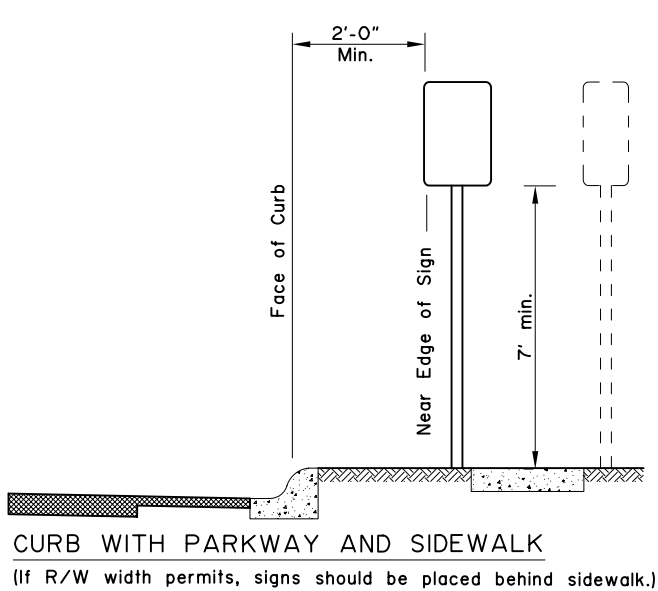
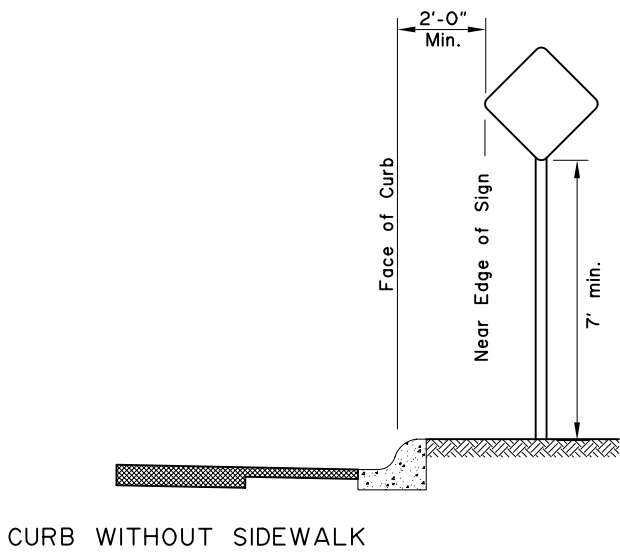
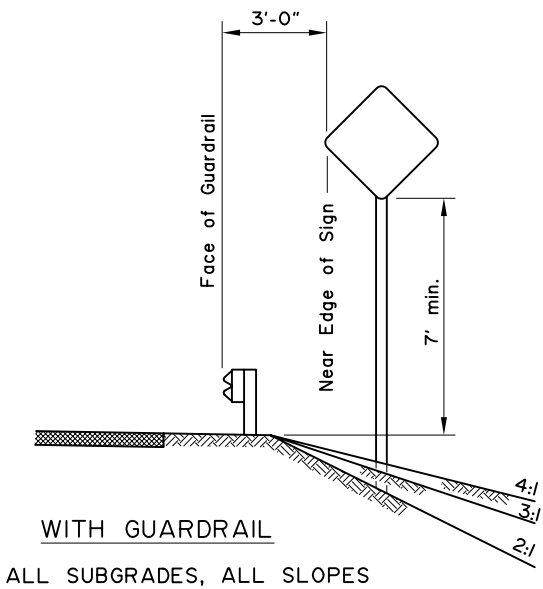
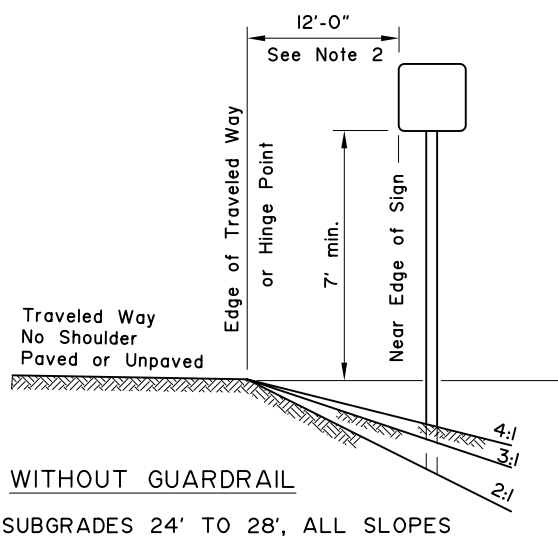
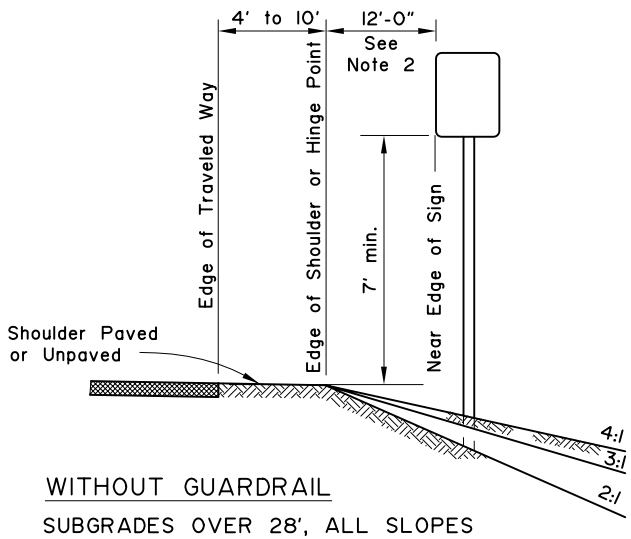
2/28/03

S-01.00

S-05.01

GENERAL NOTES

1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6'.
2. If signs extend over sidewalks, the minimum vertical clearance is 7'-0".
3. Add 6" to mounting height on unpaved roads.
4. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
5. When signs are placed 30' or more from the edge of traveled way, mount them with the bottom of the sign at least 5' above the road surface at the near edge of the road.
6. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.

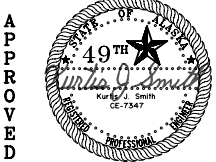


REVISIONS		
Date	Description	By
4/3/01	Revised Sign Heights	KJS

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

POST MOUNTED SIGN
OFFSET AND HEIGHT

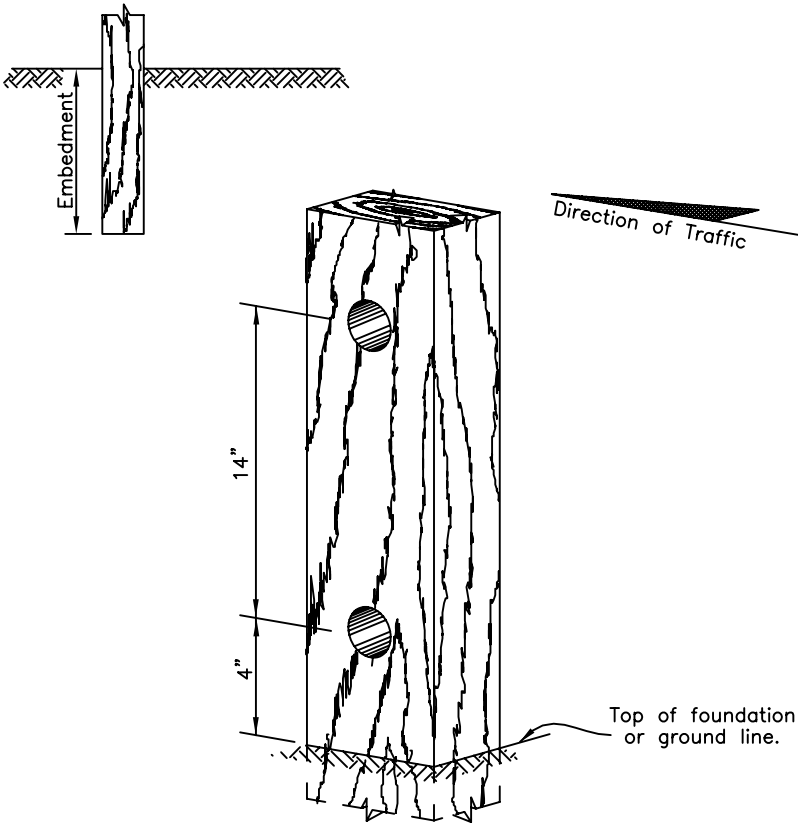


Date 7/15/82

S-30.03

GENERAL NOTES:

1. Refer to Standard Drawing "Sheet Aluminum Sign and Framing" for light sign details.
2. See plans for type of post, size and embedment type.
3. To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
4. Do not install wood posts larger than 6"x8".
5. Use larger posts than shown on this sheet, with hinges, for multiple support signs where the supports are separated by more than 7 feet.

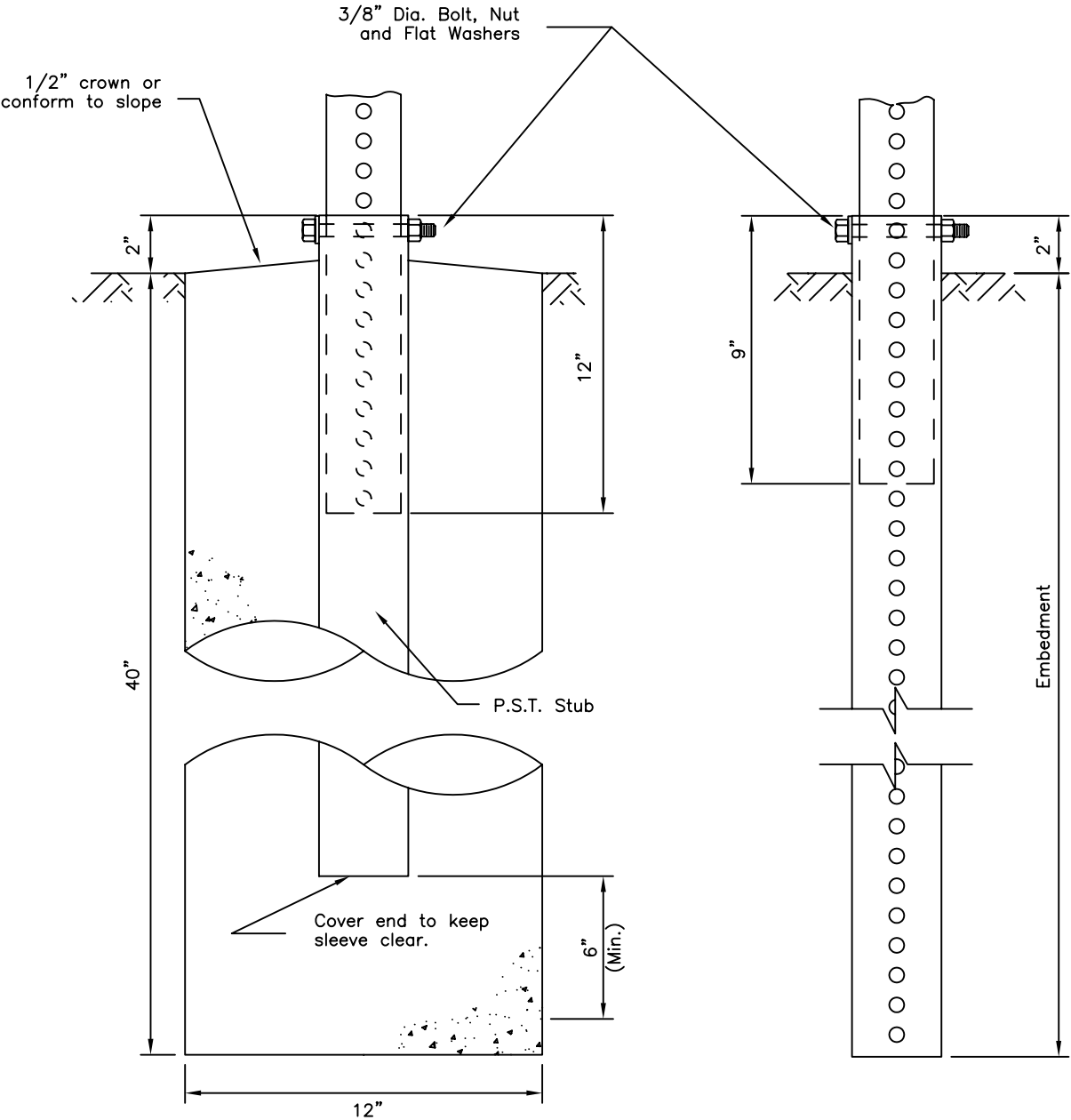


Note: If holes are field drilled after post has been treated, the holes shall be thoroughly swabbed with a 5% solution of pentachlorophenol and mineral spirits.

WOOD POSTS			
SIZE	HOLE DIA.	EMBEDMENT*	NUMBER OF POSTS WITHIN 7 Ft. PATH
4"x4"	NONE	36"	2
4"x6"	1 1/2"	36"	2
6"x6"	1 1/2"	40"	1
6"x8"	3"	48"	1

* Embedment depth applies in both strong and weak soil.

WOOD POSTS



PERFORATED STEEL TUBES (P.S.T.) (12 ga. - .105" Wall Thickness)		
POST SIZE (inch)	Embedment Depth	No. of P.S.T.s permitted within 7 ft path
1 1/2" x 1 1/2"	3'-0"	2
1 3/4" x 1 3/4"	3'-0"	2
2" x 2"	3'-6"	2
2 1/4" x 2 1/4"	4'-0"	1
2 1/2" x 2 1/2"	4'-6"	1

* Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

PERFORATED STEEL TUBE (PST) POSTS

REVISIONS		
Date	Description	By
1/1/85	Redraft-Delete Post	Gdo
4/2/01	Revised PST table	Kjs
	Added note 3	
2/12/02	Revised Wood Posts	Kjs

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

LIGHT SIGN
STRUCTURE POST
EMBEDMENT

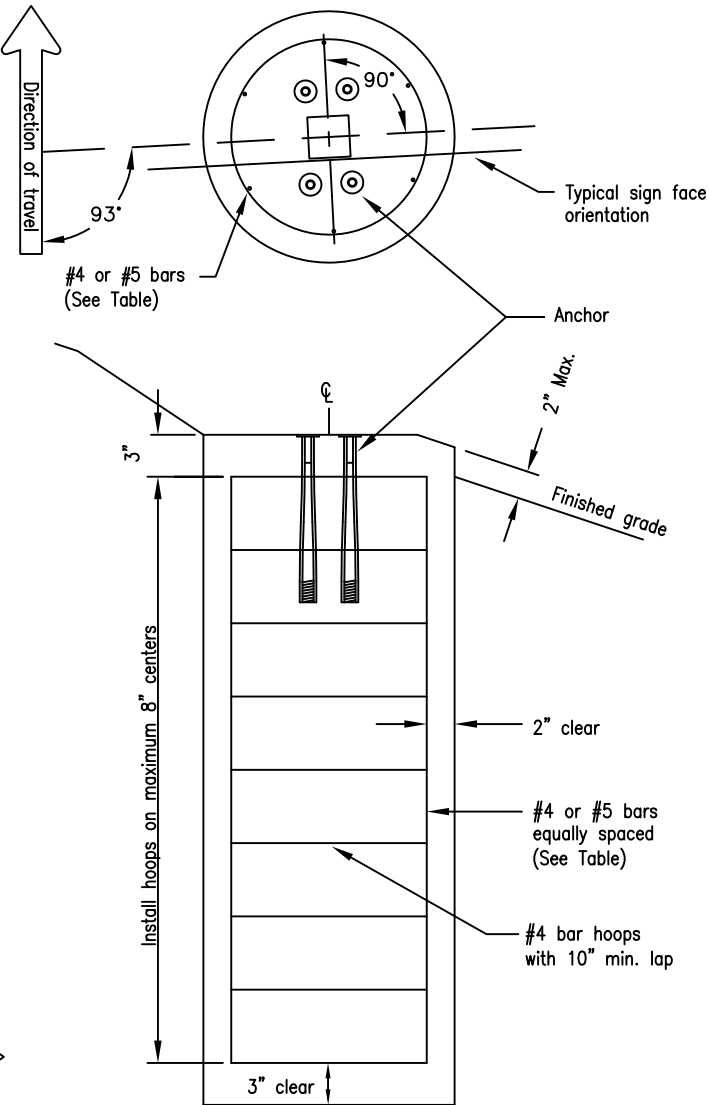
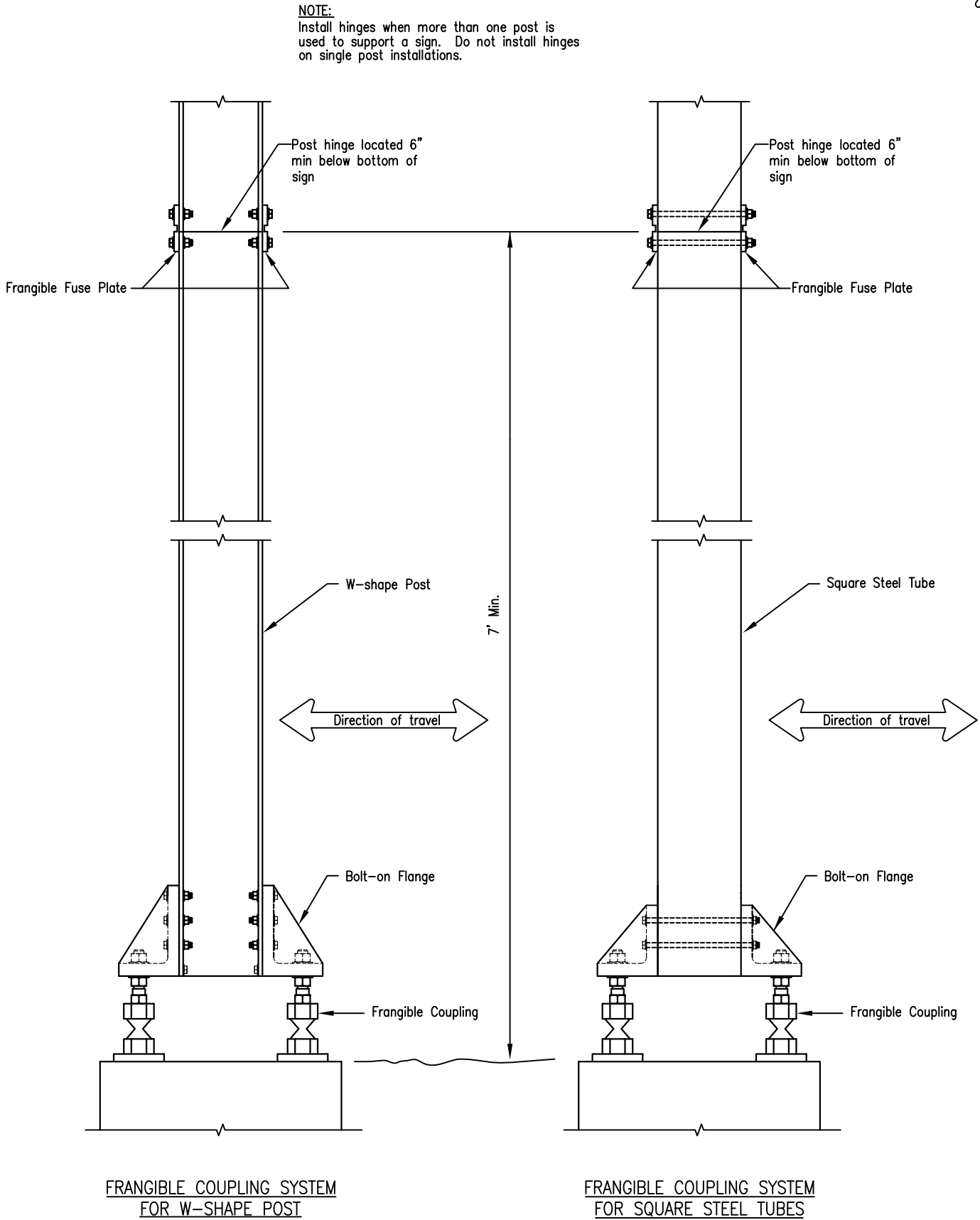


Date 7/15/82

S-31.01

GENERAL NOTES

1. Furnish sign posts with NCHRP 350 or MASH compliant FHWA-approved frangible couplings designed to break away safely when struck from any direction. The frangible couplings shall not have specific installation torque requirements.
2. Furnish frangible coupling systems with bolt-on flanges.
3. Details on this sheet illustrate only the general components of a frangible coupling system, and are not intended to specify a particular product.
4. Install frangible fuse plates as specified by the manufacturer and hinged joints when multiple posts are used to support a sign.
5. Install the components of the breakaway system, including hinges, in accordance with the written instructions of the system manufacturer.
6. Use Class A concrete conforming to section 501 of the Standard Specifications. Furnish ASTM A615 grade 60 steel bars for concrete reinforcement conforming to AASHTO M31.
7. Spiral reinforcing steel may be substituted for hoops in concrete foundation. Spiral option shall consist of #3 plain spiral with 6" pitch with three flat turns at the top and one flat turn at the bottom.
8. Install the concrete anchors using a rigid template. Locate the anchors on centers and within tolerances specified by the manufacturer.
9. Install the anchors in fresh concrete as recommended by the manufacturer. Adjust the template's final position until it is level. Remove and replace all foundations that need more than 2 shims under any 1 coupling or more than a total of 3 shims under any pair of couplings to plumb the post.
10. Drill the holes for attaching brackets before the sign posts are hot dip galvanized. Test fit templates in the holes to ensure the brackets can be installed square to the posts.



SIGN POST FOUNDATION
See Table for depth and diameter

POST SIZE & TYPE	FOUNDATION *			REINFORCEMENT			
	DIA.	MIN. DEPTH	CY ³ CONC.	VERTICAL BARS QTY. SIZE	HOOPS QTY. SIZE	DIA.	
2 1/2" TUBE	1'-6"	4'-0"	0.26	6 #4	3'-6"	7 #4	1'-2"
3" TUBE	1'-6"	4'-0"	0.26	6 #4	3'-6"	7 #4	1'-2"
3 1/2" TUBE	1'-6"	4'-6"	0.30	6 #4	4'-0"	8 #4	1'-2"
4" TUBE	2'-6"	4'-0"	0.72	7 #5	3'-6"	7 #4	2'-2"
4 1/2" TUBE	2'-6"	4'-6"	0.81	7 #5	4'-0"	8 #4	2'-2"
5" TUBE	2'-6"	5'-6"	1.00	7 #5	5'-0"	9 #4	2'-2"
W6 x 9	2'-6"	4'-0"	0.95	8 #5	3'-6"	7 #4	2'-2"
W6 x 12	2'-6"	4'-6"	1.07	8 #5	4'-0"	8 #4	2'-2"
W6 x 15	3'-0"	6'-6"	1.69	8 #5	6'-0"	11 #4	2'-8"
W6 x 30	3'-0"	7'-6"	1.95	8 #5	7'-0"	12 #4	2'-8"

FOUNDATION TABLE

* Foundations sized for use where there are no loose, high moisture, or fine grained soils.

REVISIONS		
Date	Description	By
4/28/10	Delete pipe, Add hinge	KJS

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

SIGN POST BASE AND
FOUNDATION



Date 5/31/12

CONDUCTOR AND DUCT SCHEDULE	DESIGNATION	DESCRIPTION	MANUFACTURER
OH PRIMARY CABLE	SINGLE-PHASE - 1 CONDUCTOR	#2 ACSR, SPARATE	RUS APPROVED
UG PRIMARY CABLE	SINGLE-PHASE - 1 CONDUCTOR	#2 STRANDED ALUMINUM, 133% XLPE INSULATION, FULL COPPER CONCENTRIC NEUTRAL, JACKETED	RUS APPROVED, HENDRIX OR APPROVED EQUAL
OH SERVICE	1/0 TRIPLEX	1/0 AL TRIPLEXED SECONDARY, NERITINA	RUS APPROVED

EQUIPMENT SCHEDULE

TYPE	DESCRIPTION	COMMENTS

 SCHEDULES
SCALE: NTS

- GENERAL NOTES:
1. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE (NESC), RURAL UTILITY SERVICE (RUS), AND ALASKA VILLAGE ELECTRIC COOPERATIVE (AVEC). WHERE STANDARDS VARY, THE MOST STRINGENT SHALL APPLY.
 2. LOCATIONS OF EXISTING FEATURES SHOWN ON DRAWINGS ARE COMPILED FROM DRAWINGS PROVIDED BY ADOT AND AVEC. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
 3. JUNCTION BOX, CONDUIT STUB-UPS, POLE, ANCHOR, AND EQUIPMENT LOCATIONS ALONG THE ALIGNMENT SHOWN MAY BE SLIGHTLY FIELD ADJUSTED BY ENGINEER, WHEN STAKED.
 4. EXISTING DISTRIBUTION SYSTEM IS: 7,200V/12,470V WYE.
 5. ALL MATERIAL PROVIDED SHALL BE ON THE RUS APPROVED MATERIALS LIST.
 6. ASSEMBLY UNITS SHOWN ARE FOR EMPHASIS OF MAJOR ASSEMBLY UNITS ONLY. SEE STAKING SHEETS FOR REQUIRED ASSEMBLY UNITS. WHERE ASSEMBLY UNITS ARE NOT DETAILED IN THIS DRAWING SET, REFERENCE REA STANDARD DETAILS, REA BULLETIN 50-3, STD D 804.
 7. POLES SHALL BE SET AT DEPTH OF 10% OF POLE HEIGHT PLUS 3' MINIMUM (7'-0" MINIMUM FOR 40' POLE); AND NOT GREATER THAN 10% OF POLE HEIGHT PLUS 4.5'.
 8. TYPICAL NEW POLE 40/4, UNLESS OTHERWISE NOTED.
 9. PROVIDE CLEARING AND GRUBBING WHERE REQUIRED.
 10. INSTALL DUCTS STRAIGHT, WITH AS FEW BENDS AND OFFSETS AS PRACTICABLE.
 11. INSTALL DUCTS WITH LONG SMOOTH TRANSITIONS 48" RADIUS MINIMUM FOR VERTICAL TRANSITIONS; AND 10' RADII FOR HORIZONTAL TRANSITIONS.
 12. PULL CABLES INTO PRE-INSTALLED DUCTS; CABLE-IN-CONDUIT IS PROHIBITED.
 13. TAG ALL CABLES PER TAGGING CHART PROVIDED.
 14. PROVIDE ARMOR ROD ON PRIMARY AND NEUTRAL CONDUCTORS AT EVERY ATTACHMENT EXCEPT AT DEADENDS.
 15. PROVIDE VIBRATION DAMPENERS ON PRIMARY AND NEUTRAL CONDUCTORS ON BOTH SIDES OF ITS SUPPORT.
 16. PRIMARY SHALL NOT CROSS NEUTRAL IN ANY SPAN; INSTALL NEUTRAL ON ROAD SIDE OF POLES.
 17. JUMPER PRIMARY AND NEUTRAL WITH #2 ACSR SPARATE AND COMPRESSION H-TAP CONNECTORS.
 18. SAG PRIMARY AND NEUTRAL WITH SAG CHARTS PROVIDED.
 19. PROVIDE 3" SQUARE CURVED WASHER ON BOTH SIDES OF ALL EYEBOLTS.
 20. COORDINATE SCHEDULED CONSTRUCTION WITH ADOT ROAD CONSTRUCTION WORK.
 21. PROVIDE POLE NUMBERS FOR ALL POLES.
 22. REQUEST LOCATES PRIOR TO DIGGING.

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DESIGN	<u>GE</u>
DRAWN	<u>ME</u>
CHECKED	<u>GE</u>

GE	3-23-15	ISSUED FOR REVIEW
BY	DATE	REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION
APPROVED: _____ DATE _____



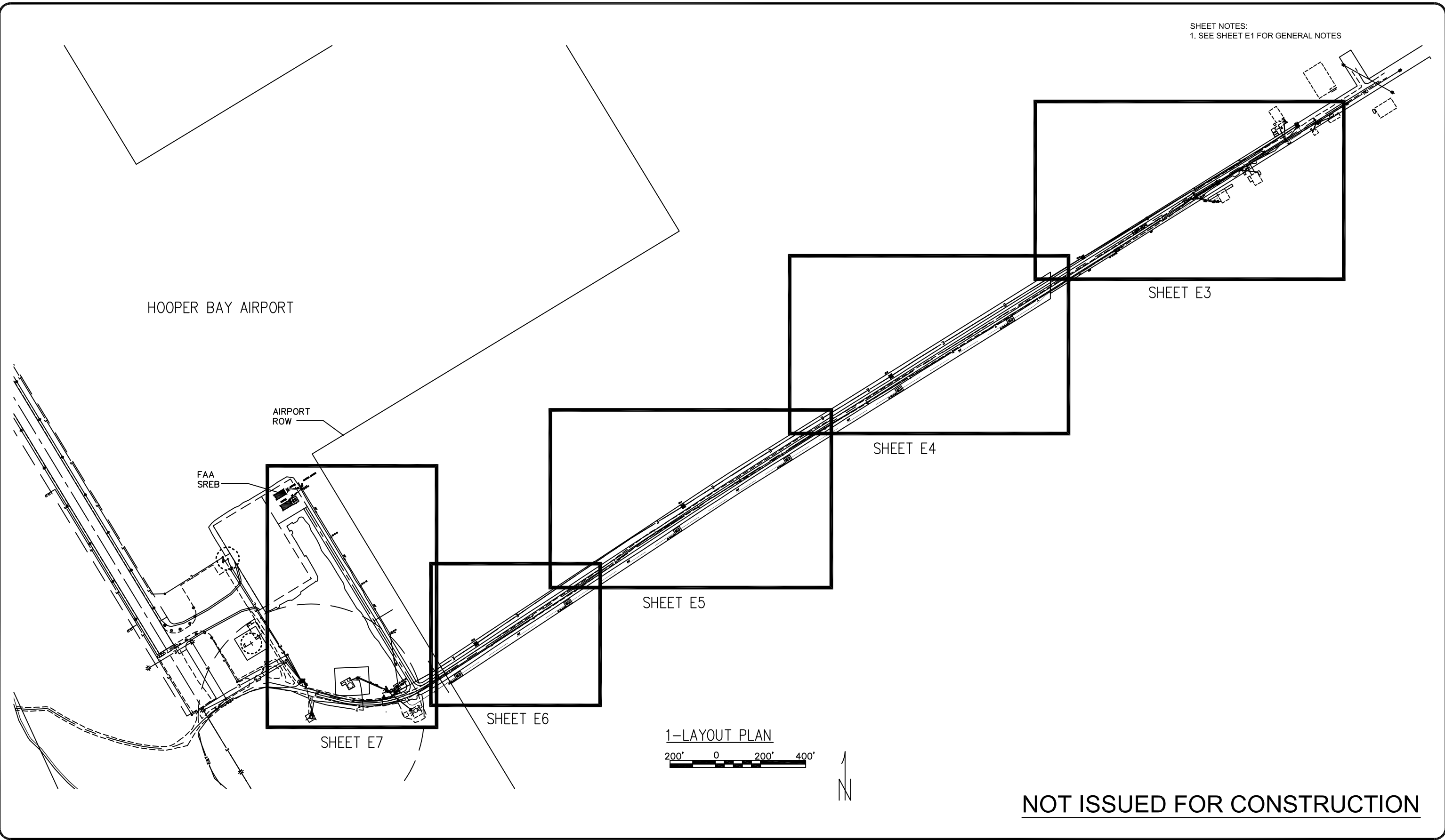
PO Box 220471
Anchorage, AK 99522
(907) 345-6168
errico@eci.net

HOOPER BAY AIRPORT
AIRPORT IMPROVEMENTS, PROJ. NO. 57419
AIP 3-02-0126-006-2014

ELEC. SCHEDULES AND GENERAL NOTES

SHEET
E1
OF
XX

SHEET NOTES:
1. SEE SHEET E1 FOR GENERAL NOTES



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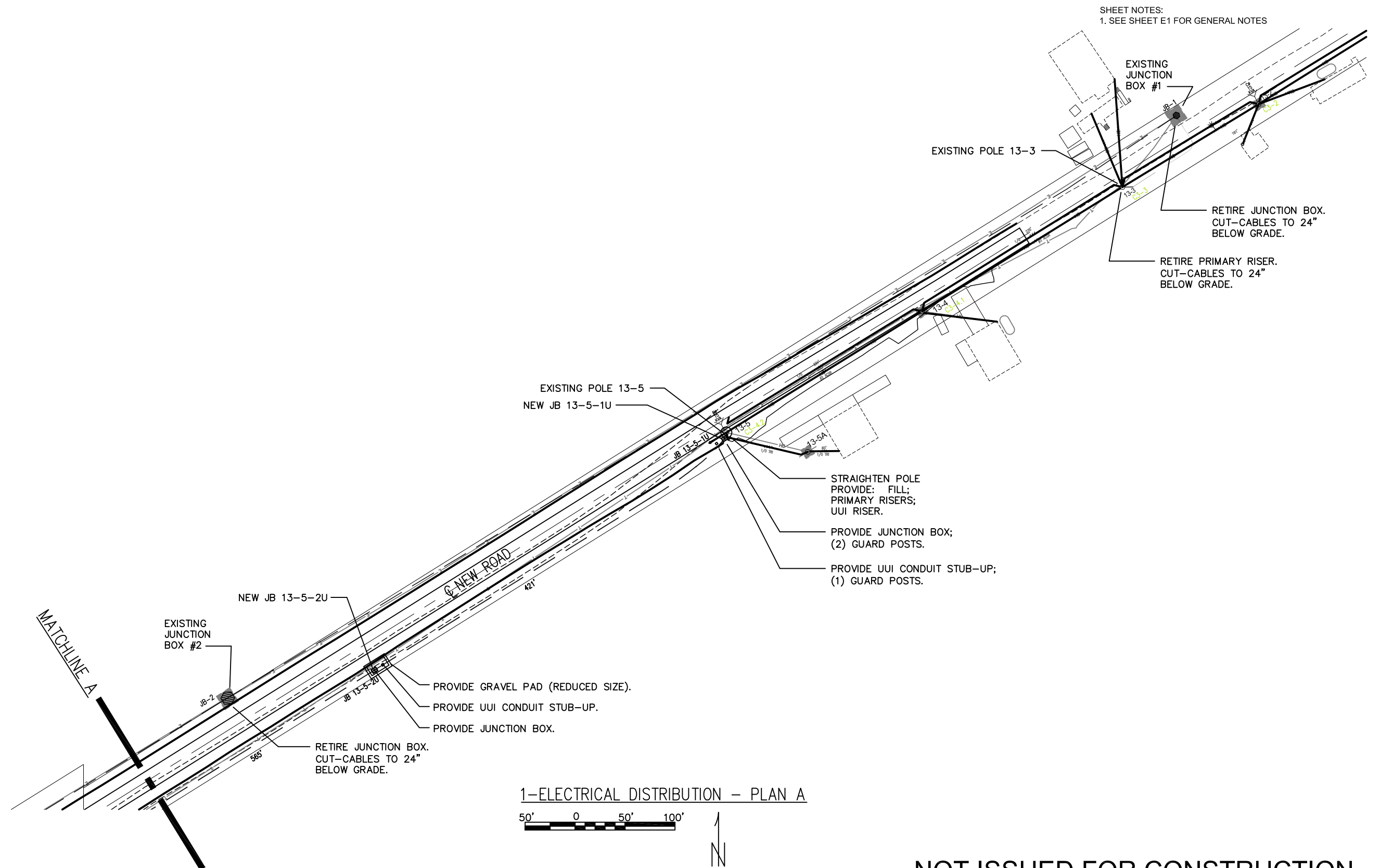
STATE OF ALASKA	
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
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ELECTRICAL DISTRIBUTION—LAYOUT PLAN

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OF	XX



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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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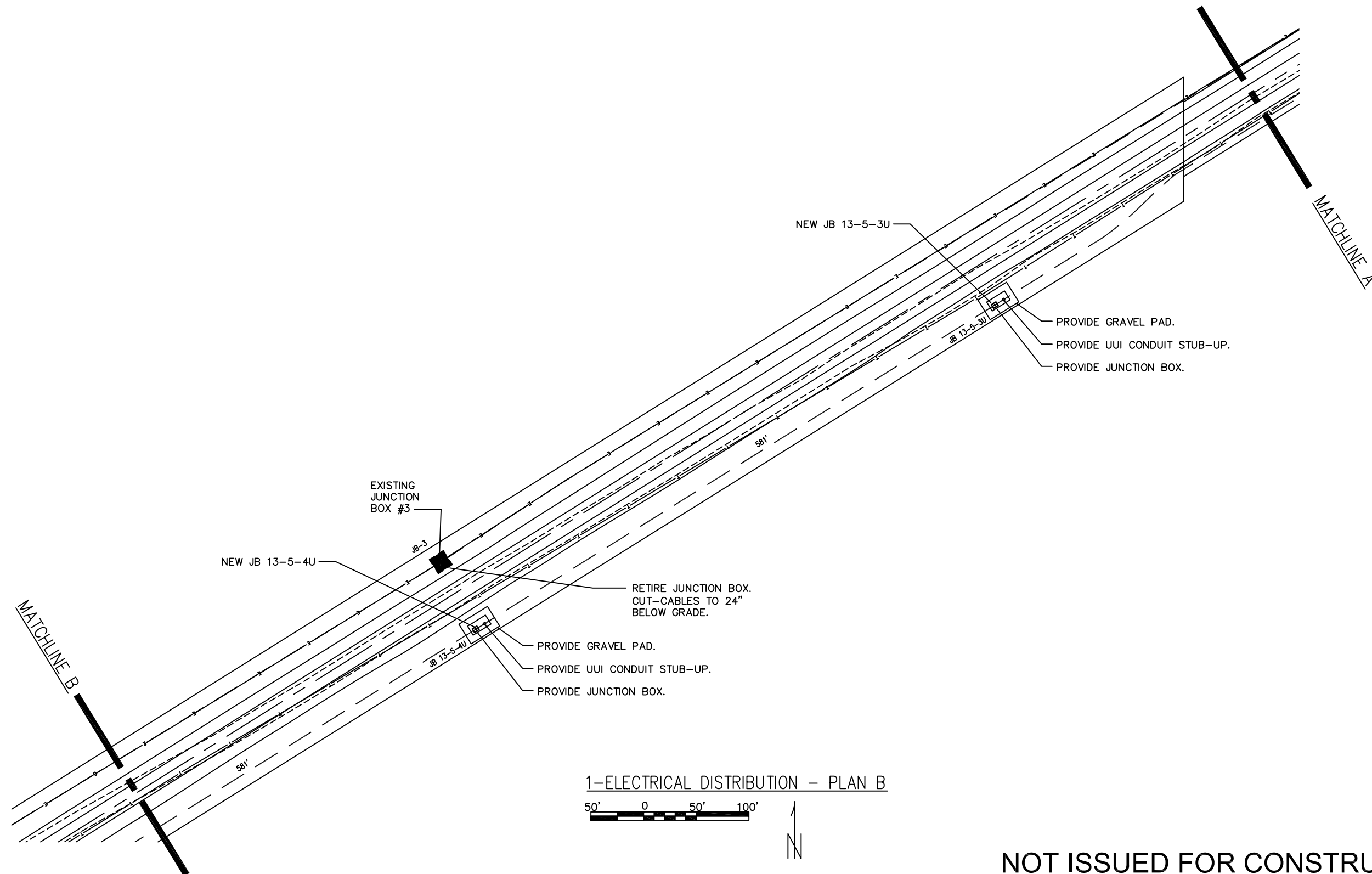
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ELECTRICAL DISTRIBUTION-PLAN A

SHEET
E3
OF
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SHEET NOTES:
1. SEE SHEET E1 FOR GENERAL NOTES



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BY	DATE
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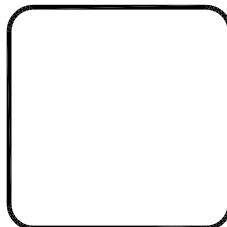
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ELECTRICAL DISTRIBUTION-PLAN B

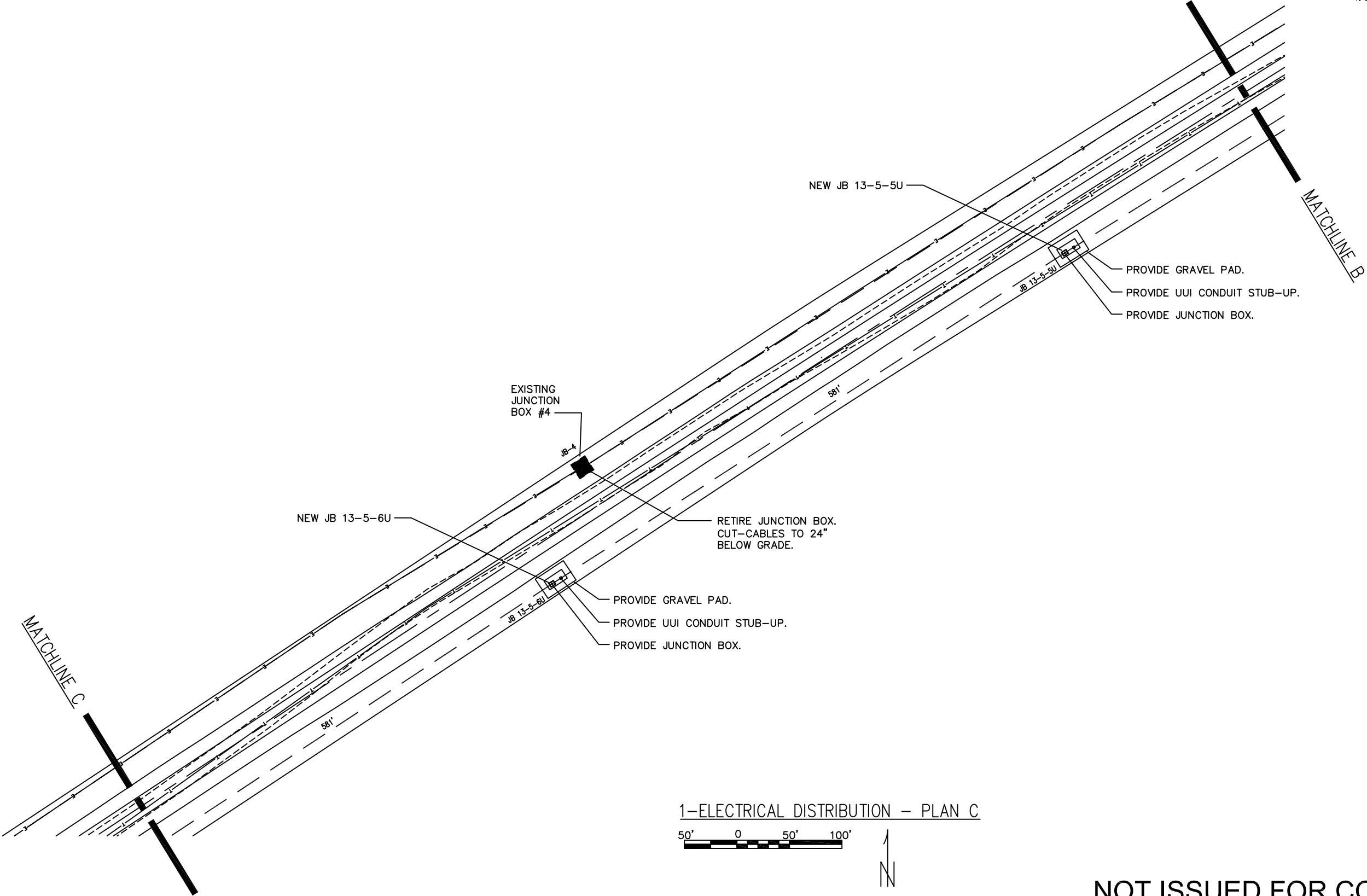
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E4

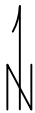
OF

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SHEET NOTES:
1. SEE SHEET E1 FOR GENERAL NOTES



1-ELECTRICAL DISTRIBUTION - PLAN C



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BY	DATE	REVISIONS		

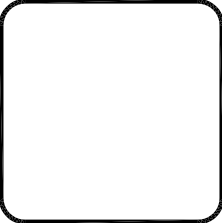
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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

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ELECTRICAL DISTRIBUTION-PLAN C

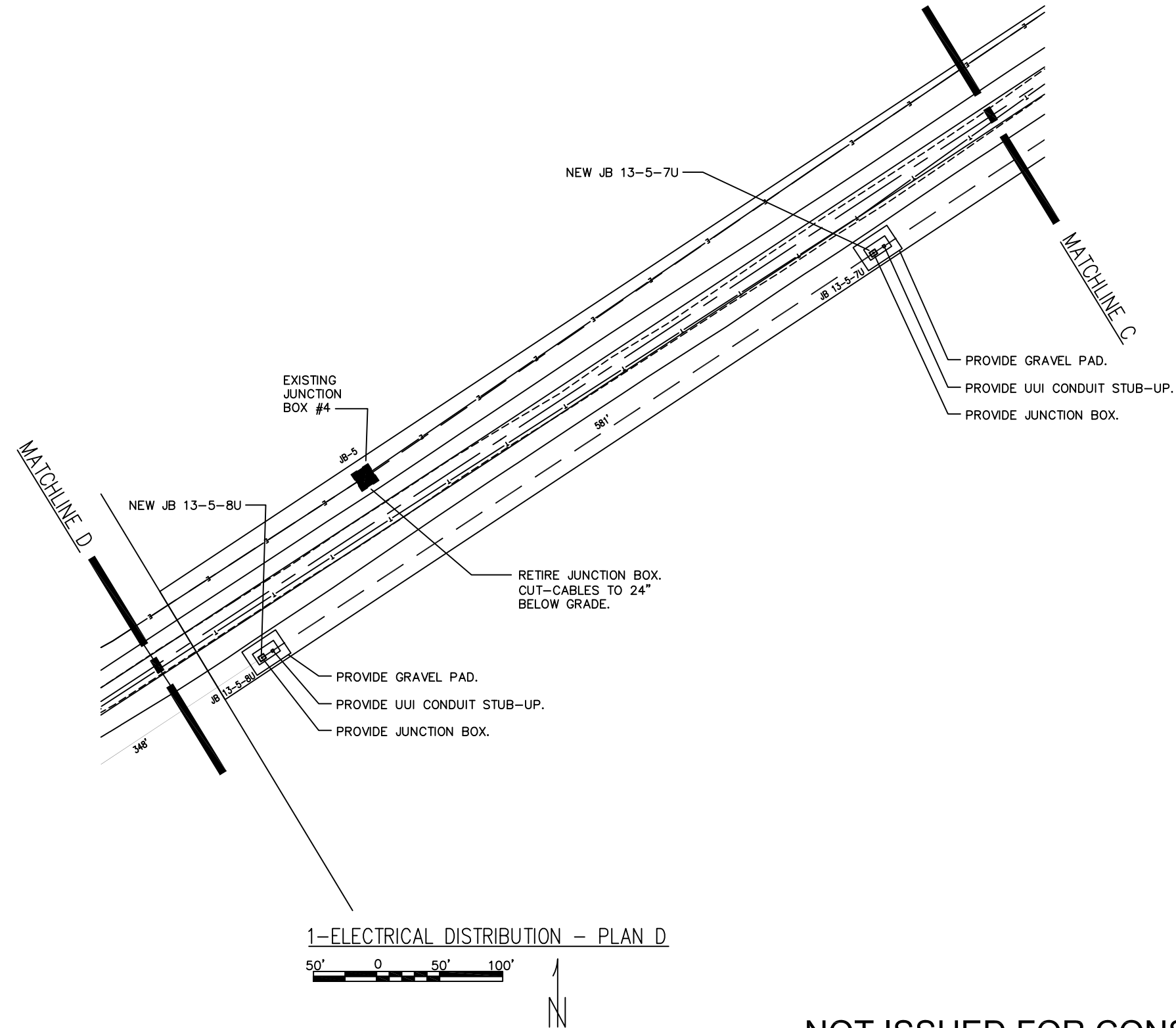
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OF

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SHEET NOTES:
1. SEE SHEET E1 FOR GENERAL NOTES



1-ELECTRICAL DISTRIBUTION - PLAN D

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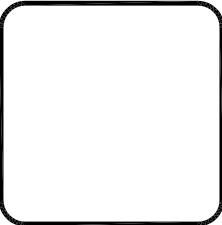
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CHECKED	GE			
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ELECTRICAL DISTRIBUTION-PLAN D

SHEET

E6

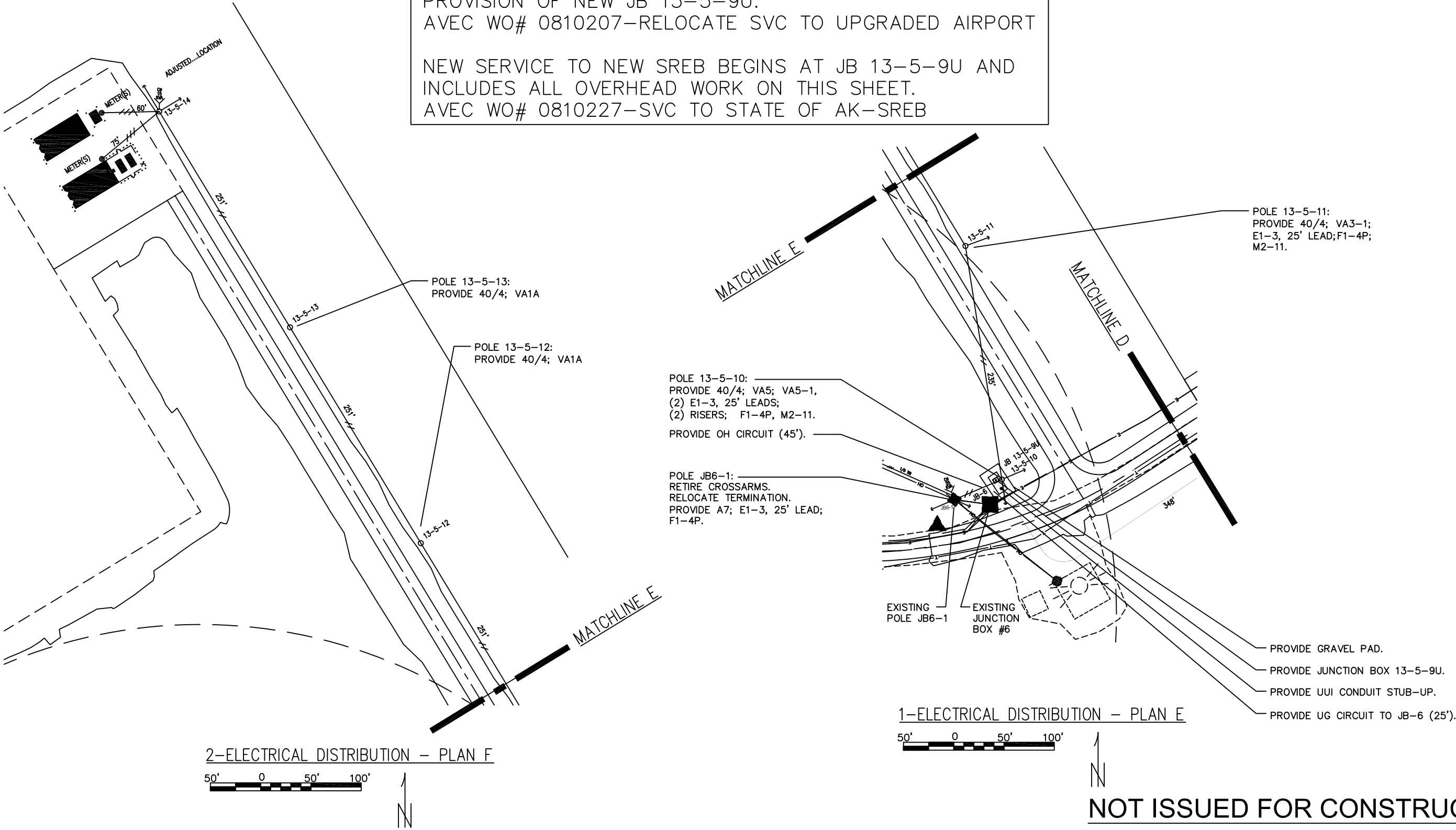
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SHEET NOTES:
1. SEE SHEET E1 FOR GENERAL NOTES

RELOCATION WORK ENDS AT EXISTING JB #6 AND INCLUDES
PROVISION OF NEW JB 13-5-9U.
AVEC WO# 0810207-RELOCATE SVC TO UPGRADED AIRPORT

NEW SERVICE TO NEW SREB BEGINS AT JB 13-5-9U AND
INCLUDES ALL OVERHEAD WORK ON THIS SHEET.
AVEC WO# 0810227-SVC TO STATE OF AK-SREB



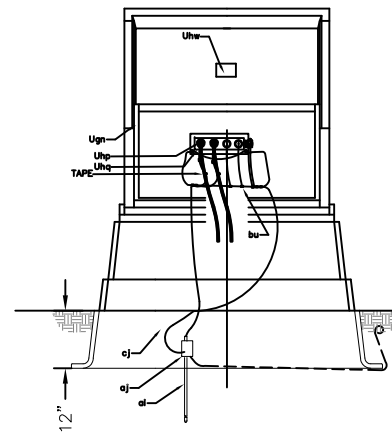
DESIGN	GE	
DRAWN	ME	
CHECKED	GE	
BY	DATE	REVISIONS
GE	3-23-15	ISSUED FOR REVIEW

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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION-DESIGN AND CONSTRUCTION-AVIATION
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AIP 3-02-0126-006-2014
ELECTRICAL DISTRIBUTION-PLANS E&F

SHEET
E7
OF
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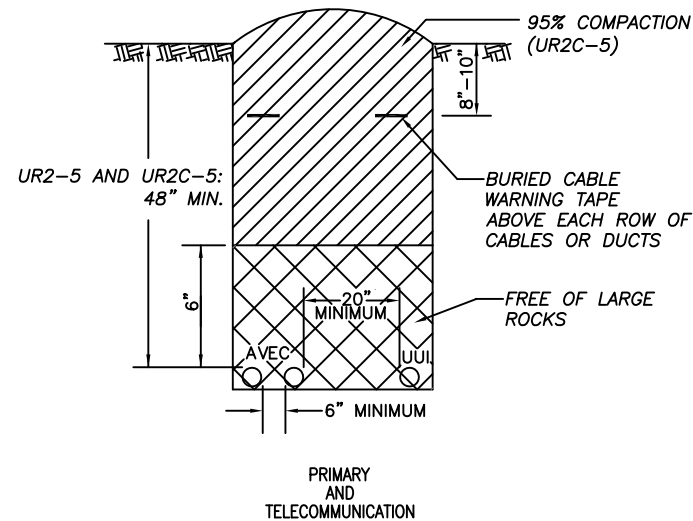
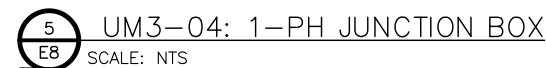


MATERIAL LIST		
Item	Qty	DESCRIPTION
ai	1	ROD, GROUND, 5/8" X 8'-0", COPPER CLAD
aj	1	CONNECTION, GROUND ROD CLAMP
bu	—	COMPRESSION CONNECTOR, EQUIPMENT GROUND, COPPER, BURNDY YGC2C2, OR APPROVED EQUAL, AS REQ'D
	2	LUG, INSERT PLATE GROUNDING
cj	—	GROUND WIRE, #2 BaCuStr, AS REQ'D
Ugn	1	DEADFRONT CABLE JUNCTION PEDESTAL, NORDIC FIBERGLASS ND-362454-MG-S110-X-X
Uhw	1 EA.	SIGNS, "DANGER" AND "WARNING"
Uhq	1	MODULE, FEED-THRU, MULTIPOINT, 4-POSITION W/ 2 STAND OFF BRACKETS EA. COOPER LJ215C4B OR APPROVED EQUAL
	—	STAINLESS STEEL FEED-THRU MOUNTING HARDWARE (QTY AS REQUIRED)
	—	CABLE TAGS, AS REQ'D
	—	DECALS/NUMBERS, 3" HIGH, REFLECTIVE, AS REQ'D
	1	EQUIPMENT LOCK, TAMPERPROOF
Uhp	—	ELBOW TERMINATION, AS REQ'D, COOPER LE215 OR APPROVED EQUAL
	—	DUST COVER, AS REQ'D, COOPER LPC215 OR APPROVED EQUAL
	—	STAND-OFF-BUSHING WITH STAINLESS STEEL BRACKET, COOPER ISB215S OR APPROVED EQUAL

SHEET NOTES:
1. SEE SHEET E0.00 FOR GENERAL NOTES.




NOTES:

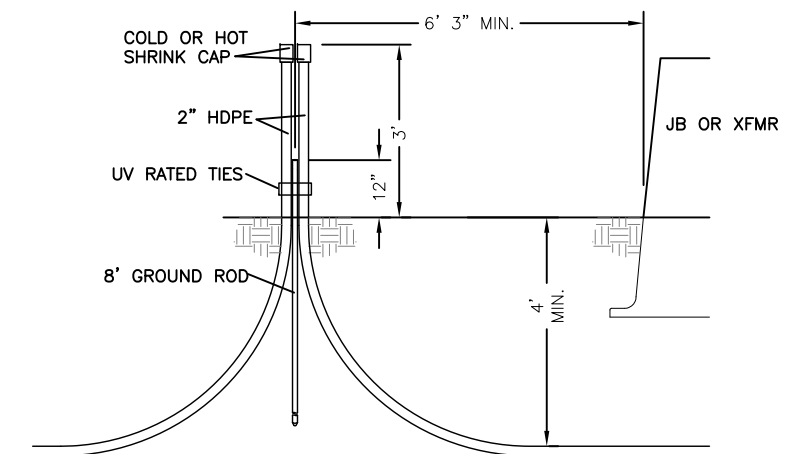
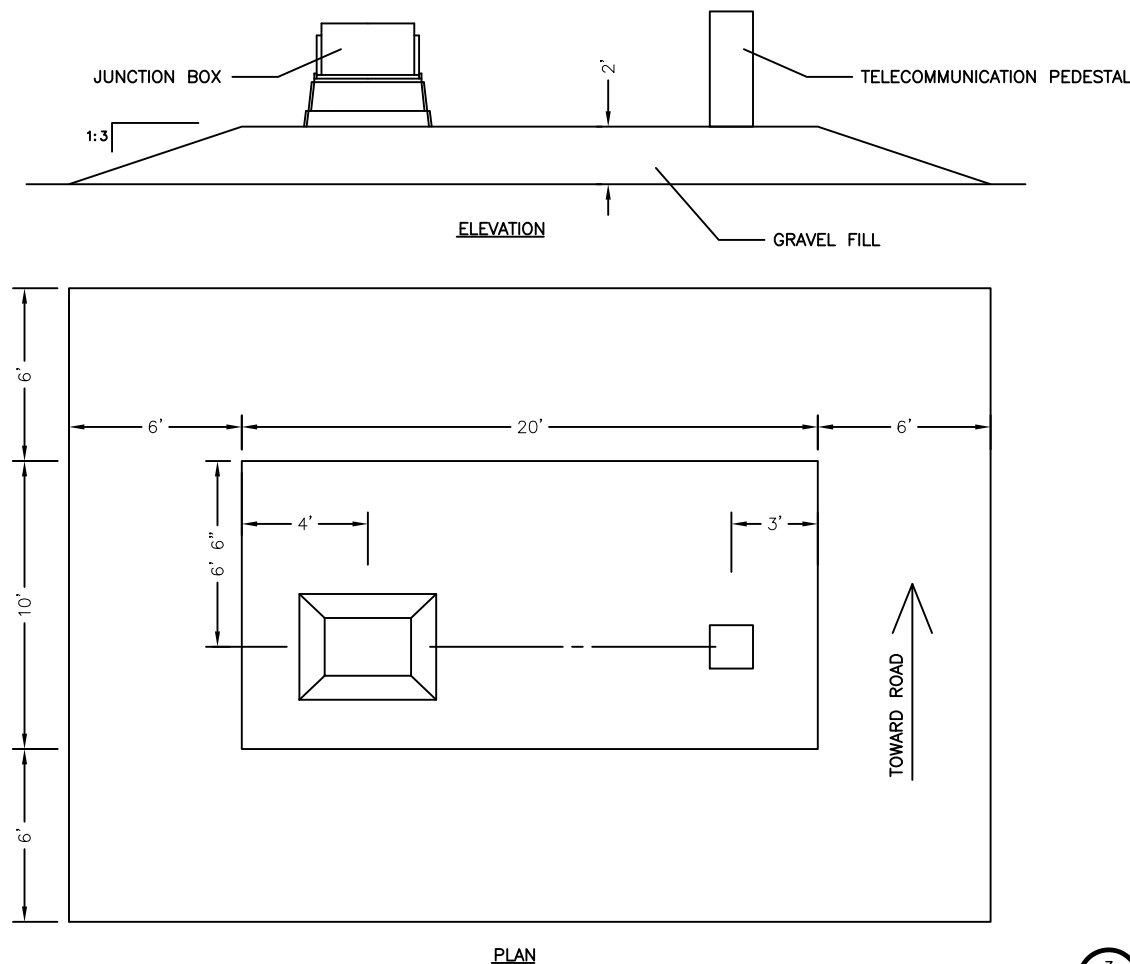
1. PROVIDE 4-WAY JUNCTION RECEPTACLE.
2. PROVIDE LOAD-BREAK ELBOW TERMINATIONS.
3. PROVIDE DUST COVERS ON ALL NON-UTILIZED BUSHINGS.
4. PROVIDE STANDOFF BUSHINGS FOR EACH NORMALLY OPEN CABLE.
5. PROVIDE #2 BARE STRANDED COPPER GROUND LOOP.
6. ALL NEUTRALS AND METALLIC NON-CURRENT CARRYING PARTS SHALL BE INTERCONNECTED AND GROUNDED TO THE JUNCTION BOX GROUND LOOP WITH COMPRESSION CONNECTORS.
7. PROVIDE HALF LOOPS IN BASE OF PAD FOR ALL PRIMARY CABLES.
8. PROVIDE SUFFICIENT PRIMARY NEUTRAL GROUND CONNECTION TAILS TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON STANDOFF BUSHING.



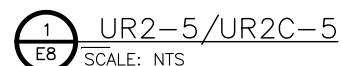
NOTES:
1. DEPTHS SPECIFIED ARE TO FINISHED GRADE.
2. BACKFILLING IS PART OF ALL TRENCHING UNITS. ALL BACKFILL WITHIN 12" OF CABLE OR CONDUIT SHALL BE FREE OF LARGE ROCKS AND FROZEN MATERIAL WHICH MAY CAUSE DAMAGE TO THE INSTALLED CONDUIT.
UR2C-5: COMPACT BACKFILL IN 6"-8" LIFTS, TO 95% COMPACTION.

LEGEND

 FREE OF LARGE ROCKS
 BACKFILL, COMPACTED AT UR2C-5
 UNDISTURBED EARTH



MATERIAL LIST	
QTY	DESCRIPTION
1	ROD, GROUND, 3/4" X 8'-0", COPPER CLAD STEEL
2	WIRE TIE, 1/4" UV STABILIZED
2	2" COLD- OR HOT-SHRINK CONDUIT CAP



NOT ISSUED FOR CONSTRUCTION

DESIGN <u>GE</u>	GE	3-23-15	ISSUED FOR REVIEW
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BY	DATE	REVISIONS	

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HOOPER BAY AIRPORT
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LINE EXTENSION+RELOCATION-DETAILS

SHEET
E8
OF
XX

