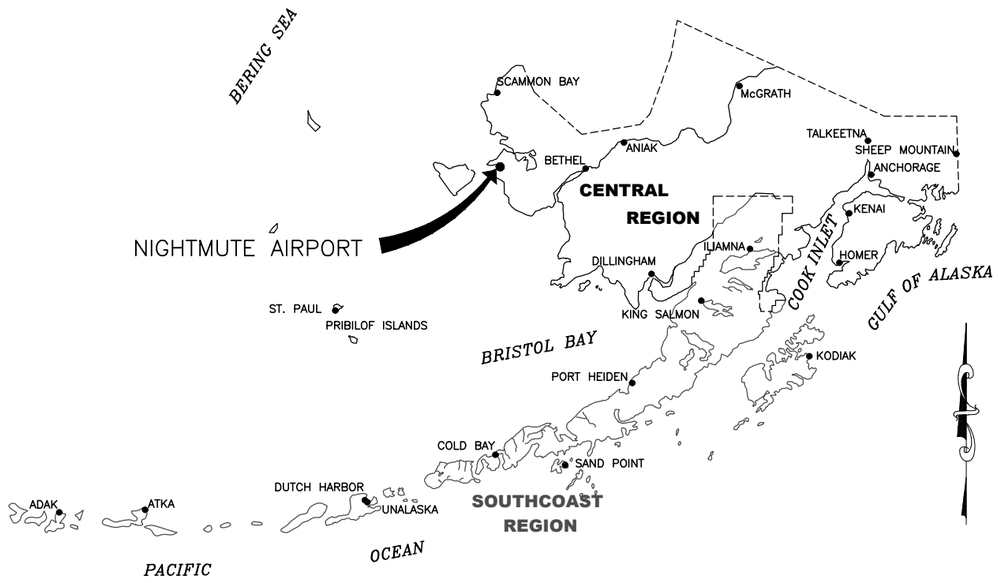
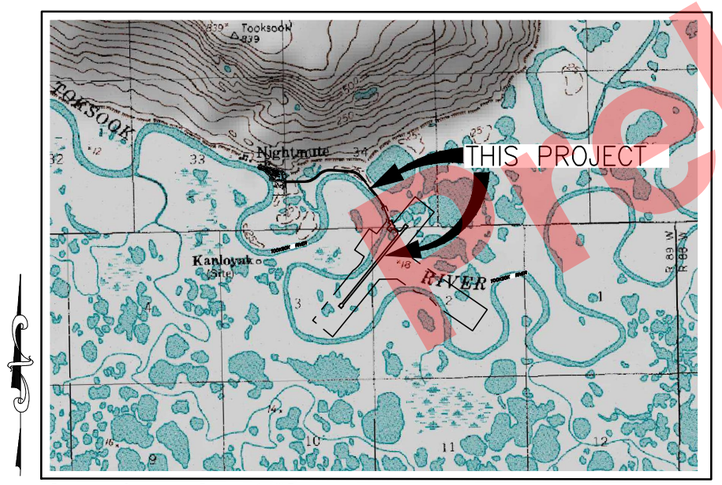


ALASKA CENTRAL REGION LOCATION MAP

NOT TO SCALE



VICINITY MAP

SCALE 1"=1/2 MILE
T 5 N, R 88 W, SEC. 34
T 4 N, R 89 W, SEC. 2 & 3
SEWARD MERIDIAN
U.S.G.S. BAIRD INLET (B-7, B-8, C-7, C-8) ALASKA

CONSTRUCTION PLANS

NIGHTMUTE AIRPORT

NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIRPORT IMPROVEMENT PROGRAM
No. 3-02-0195-002-202X

PRE PS&E
JANUARY 2024

CONCUR	**DATE**
JOEL G. ST. AUBIN, P.E.	REGIONAL CONSTRUCTION ENGINEER
APPROVED	**DATE**
LUKE BOWLAND, P.E.	REGIONAL PRECONSTRUCTION ENGINEER
APPROVED	**DATE**
JENELLE BRINKMAN, P.E.	AVIATION DESIGN GROUP CHIEF
APPROVED	**DATE**
PHILIP CHEASEBRO, P.E.	PROJECT MANAGER

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
COVER

DATE: 01/29/2024
SHEET: 1 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC

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Layout Name: 1/29/2024, 1:15 PM Cover
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SIGN POST BASE AND FOUNDATION	S–31.02

ABBREVIATIONS

ADG	AIRPLANE DESIGN GROUP	MIN	MINIMUM
AWG	AMERICAN WIRE GAUGE	MIRL	MEDIUM INTENSITY RUNWAY LIGHTING
AWOS	AUTOMATED WEATHER OBSERVING SYSTEM	MITL	MEDIUM INTENSITY TAXIWAY LIGHTING
BOP	BEGINNING OF PROJECT	N	NORTHING
BRL	BUILDING RESTRICTION LINE	NIC	NOT IN CONTRACT
BVCE	BEGIN VERTICAL CURVE ELEVATION	NTS	NOT TO SCALE
BVCS	BEGIN VERTICAL CURVE STATION	OCOM	COMMUNICATIONS LINE (OVERHEAD)
CASC	CRUSHED AGGREGATE SURFACE COURSE	OFA	OBJECT FREE AREA
℄	CENTERLINE	OFZ	OBJECT FREE ZONE
CS	CONTINGENT SUM	OG	ORIGINAL GROUND
CY	CUBIC YARD	OHE	ELECTRICAL LINE (OVERHEAD)
DIA	DIAMETER	OHW	ORDINARY HIGH WATER
DOT	DEPARTMENT OF TRANSPORTATION	PAPI	PRECISION APPROACH PATH INDICATOR
E	EASTING	PC	POINT OF CURVE
EA	EACH	PI	POINT OF INTERSECTION
EEB	ELECTRICAL EQUIPMENT BUILDING	PT	POINT OF TANGENT
ELEV	ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
EOP	END OF PROJECT	R	RADIUS
ESCP	EROSION AND SEDIMENT CONTROL PLAN	RD	ROAD
ESMT	EASEMENT	REIL	RUNWAY END IDENTIFIER LIGHTS
EVCE	END VERTICAL CURVE ELEVATION	REQ'D	REQUIRED
EVCS	END VERTICAL CURVE STATION	ROFA	RUNWAY OBJECT FREE AREA
FAA	FEDERAL AVIATION ADMINISTRATION	ROW	RIGHT OF WAY
FF	FINISHED FLOOR	RPZ	RUNWAY PROTECTION ZONE
FG	FINISHED GRADE	RSA	RUNWAY SAFETY AREA
GB	GRADE BREAK	RT	RIGHT
HDG	HOT DIPPED GALVANIZED	RW	RUNWAY
HMA	HOT MIX ASPHALT	SF	SQUARE FEET
HP	HORSEPOWER	SREB	SNOW REMOVAL EQUIPMENT BUILDING
KV	KILOVOLT	STA	STATION
LB	POUND	SY	SQUARE YARD
LF	LINEAR FOOT	TN	TON
LS	LUMP SUM	TSA	TAXIWAY SAFETY AREA
LT	LEFT	TW	TAXIWAY
MAINT	MAINTENANCE	TYP	TYPICAL
MGAL	THOUSAND GALLONS	UGE	ELECTRICAL LINE (UNDERGROUND)

REFERENCE DRAWINGS

SHEET TITLE	SHEET No.
51809 AS–BUILT SREB PLANS	S1 – S5

BY	DATE	REVISION

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
INDEX

DATE: 01/29/2024
SHEET: 2 OF 36

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LEGEND

DESCRIPTION	EXISTING	PROPOSED
AIRPORT PROPERTY BOUNDARY		
BOLLARD		
BUILDING		
BUILDING RESTRICTION LINE	BRL	BRL
CENTERLINE (RUNWAY/TAXIWAY)		
COMMUNICATION LINE (OVERHEAD)	OCOM	OCOM
CONTOURS	100	100
DETAIL CALLOUT		1/19
DITCH/SWALE		
ELECTRICAL LINE (OVERHEAD)	OHE	OHE
ELECTRICAL LINE (UNDERGROUND)	UGE	UGE
GEOTEXTILE, SEPARATION		
GRADE BREAK	GB	GB
GRAVEL EDGE		
HAUL ROUTE (TWO WAY)		
IDENTIFICATION BUBBLE		ID
LIGHT (RUNWAY)		
OFA LINE (RUNWAY)	ROFA	ROFA
OFZ LINE	OFZ	OFZ
ORDINARY HIGH WATER		
POINTS		101
RIP RAP		
ROADWAYS (EDGE, GRAVEL)		
ROTATING BEACON		
RUNWAY PROTECTION ZONE	RPZ	RPZ
RUNWAY SAFETY AREA	RSA	RSA
SEGMENTED CIRCLE		
SIGN POST/MARKER		
SLOPE WITH GRADE		-2.0%
TAXIWAY SAFETY AREA	TSA	TSA
THRESHOLD MARKERS/LIGHTS		
TIE-DOWN		
TOE OF SLOPE		
CUT		
FILL		
UTILITY POLE		
WATER (SHORELINE, RIVER)		
WIND CONE		

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
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PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
LEGEND

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SHEET: 3 OF 36

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ESTIMATED QUANTITIES

No.	ITEM	UNIT	QUANTITY
D701.040.0060*	CAA PIPE, 60–INCH, 12 GAUGE	LF	30
D752.060.3020*	CONCRETE HEADWALL, TYPE II	EA	2
F170.010.0000	STEEL BOLLARD	EA	9
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
G105.010.0000*	POST AWARD CONFERENCE	LS	ALL REQ'D
G115.010.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D
G130.010.0000	FIELD OFFICE	LS	ALL REQ'D
G130.020.0000	FIELD LABORATORY	LS	ALL REQ'D
G130.040.0000	MEAL	EA	4,500
G130.050.0000	LODGING	EA	1,500
G130.060.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EA	1
G130.090.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
G131.010.0000	ENGINEERING TRANSPORTATION (TRUCK)	EA	2
G131.025.0000	ENGINEERING TRANSPORTATION (UTV)	EA	2
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LS	ALL REQ'D
G135.020.0000	EXTRA THREE PERSON SURVEY PARTY	HOUR	100
G135.050.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	CS	ALL REQ'D
G135.060.0000	CONTRACTOR FURNISHED COMPUTATIONS	LS	ALL REQ'D
G150.010.0075	EQUIPMENT RENTAL, DOZER 75–HP MINIMUM	HOUR	50
G300.010.0000	CPM SCHEDULING	LS	ALL REQ'D
G700.010.0000	AIRPORT FLAGGER	CS	ALL REQ'D
G705.010.0000	WATERING FOR DUST CONTROL	MGAL	1,800
L101.020.0000	ROTATING BEACON, MEDIUM INTENSITY, L–801A	EA	1
L103.010.0030	30–FEET HINGED BEACON TOWER	EA	1
L107.010.0008	8–FEET LIGHTED WIND CONE, IN PLACE	EA	1
L107.011.0008	8–FEET LIGHTED WIND CONE, SUPPLEMENTAL, IN PLACE	EA	1
L108.010.2008	UNDERGROUND CABLE #8 AWG, COPPER, 5KV FAA TYPE C, L–824	LF	9,500
L108.030.0006	#6 BARE COPPER GROUND CONDUCTOR	LF	9,500
L108.070.0000	GROUND ROD	EA	12
L109.050.0000	INSTALLATION OF ELECTRICAL EQUIPMENT IN NEW OR EXISTING STRUCTURE	LS	ALL REQ'D
L110.030.1002	RIGID STEEL CONDUIT, 2–INCH	LF	280
L110.080.1002	HDPE CONDUIT, 2–INCH	LF	9,020

* = NON–PARTICIPATING

No.	ITEM	UNIT	QUANTITY
L125.020.0000	REGULATOR, L–828	EA	1
L125.030.0000	MEDIUM INTENSITY RUNWAY EDGE AND THRESHOLD LIGHT, L–861 AND L–861SE	EA	43
L125.040.0000	TAXIWAY EDGE LIGHT, L–861T	EA	19
L125.050.0000	WINDCONE HANDHOLE, L–867	EA	3
L125.070.0000	REMOVE RUNWAY AND TAXIWAY LIGHT	EA	59
L125.170.0000	SPARE PARTS	CS	ALL REQ'D
L125.180.0000	TEMPORAY RUNWAY LIGHTING SYSTEM	LS	ALL REQ'D
L161.010.0000	ELECTRICAL METER CENTERS	LS	ALL REQ'D
P151.030.0000	CLEARING & GRUBBING	ACRE	4
P152.010.0000	UNCLASSIFIED EXCAVATION	CY	61,000
P152.010.0000*	UNCLASSIFIED EXCAVATION	CY	121
P152.200.0000	BORROW	TN	3,650
P152.440.0000	AREA GRADING	SY	28,300
P154.020.0000	SUBBASE COURSE	TON	29,900
P165.060.0000	RELOCATION AND REMOVAL OF STRUCTURES	LS	ALL REQ'D
P167.020.0000	DUST PALLIATIVE	LS	ALL REQ'D
P167.020.0000*	DUST PALLIATIVE	LS	ALL REQ'D
P180.020.0000	RIPRAP, CLASS I	TON	710
P180.040.0000	RIPRAP, CLASS II	TON	3,350
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	TON	19,100
P299.070.0000*	CRUSHED AGGREGATE SURFACE COURSE STOCKPILE	TON	200
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE, RECYCLED	TON	14,400
P299.020.0000*	CRUSHED AGGREGATE SURFACE COURSE, RECYCLED	TON	470
P620.070.0000	TEMPORARY RUNWAY & TAXIWAY PAINTING	LS	ALL REQ'D
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
P641.050.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL BY DIRECTIVE	CS	ALL REQ'D
P641.060.0000	WITHOLDING	CS	ALL REQ'D
P641.070.0000	SWPPP MANAGER	LS	ALL REQ'D
P641.110.0000	SWPPPTRACK	CS	ALL REQ'D

No.	ITEM	UNIT	QUANTITY
P650.010.0000	AIRCRAFT TIE–DOWN	EA	16
P660.030.0000	REFLECTIVE MARKER, TYPE II	EA	85
P660.070.0000	CONE, 18–INCH	EA	68
P661.010.0000	STANDARD SIGN	SF	31
P670.010.0000	HAZARD MARKER BARRIER, PLASTIC	EA	22
P671.010.0000	RUNWAY CLOSURE MARKER, VINYL MESH	EA	7
P681.040.0000	GEOTEXTILE, REINFORCEMENT – TYPE 2	SY	122,000
P682.020.0000*	GEOTEXTILE, EROSION CONTROL	SY	22
T901.020.0000	SEEDING	LB	299
T901.020.0000*	SEEDING	LB	4
T901.030.0000	WATER FOR MAINTENANCE	MGAL	670
T905.010.0020	TOPSOILING, CLASS B	SY	16,700
T905.010.0020*	TOPSOILING, CLASS B	SY	206

ESTIMATING FACTORS

No.	ITEM	FACTOR
P154.XXX.0000	RECYCLED SUBBASE	2.0 TON/CY
P180.020.0000	RIPRAP, CLASS I	1.46 TON/CY
P180.040.0000	RIPRAP, CLASS II	1.46 TON/CY
P299.020.0000	CRUSHED AGGREGATE SURFACE COURSE	2.0 TON/CY
P299.070.0000	CRUSHED AGGREGATE SURFACE COURSE STOCKPILE	2.0 TON/CY
P299.XXX.0000	CRUSHED AGGREGATE SURFACE COURSE, RECYCLED	2.0 TON/CY
T901.020.0000	SEEDING	2LB/1000SF

BY	DATE	REVISION

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
ESTIMATED QUANTITIES

DATE: 01/29/2024

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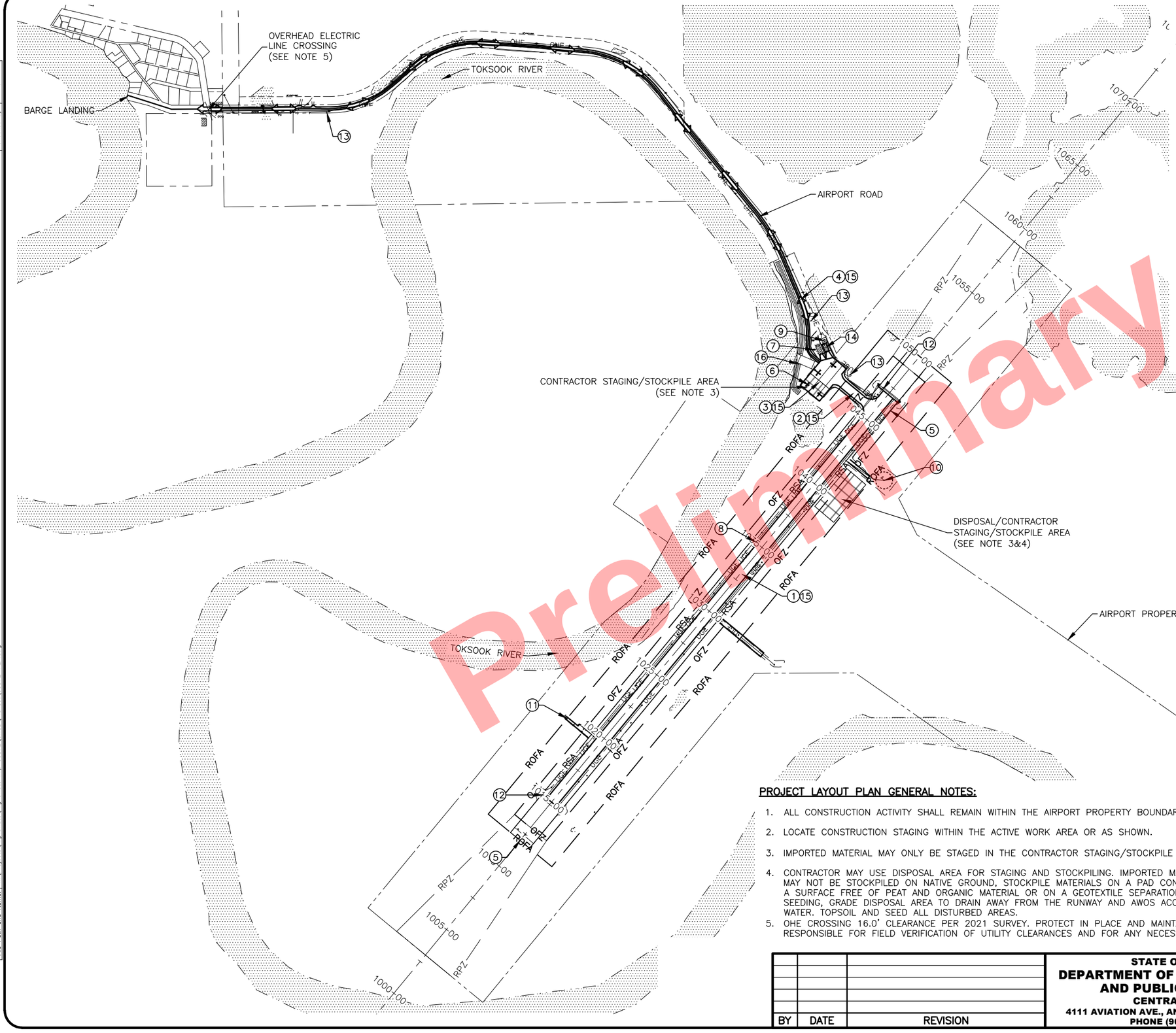

SCOPE OF THE PROJECT INCLUDES, BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOLLOWING:

1. REHABILITATE RW 03/21 AND SAFETY AREAS
2. REHABILITATE TW AND SAFETY AREAS
3. REHABILITATE APRON
4. REHABILITATE ACCESS ROAD
5. EXPAND RSA TO ACCOMMODATE ADG II AIRCRAFT
6. INSTALL AIRCRAFT TIE DOWNS
7. INSTALL A NEW ROTATING BEACON ON A TIP DOWN POLE
8. REPLACE AIRFIELD LIGHTING SYSTEM
9. REPLACE ELECTRICAL EQUIPMENT BUILDING (EEB) AS NEEDED
10. REPLACE PRIMARY WIND CONE W/LIGHTED WIND CONE
11. REPLACE SUPPLEMENTAL WIND CONE W/LIGHTED WIND CONE
12. REMOVE EXISTING UNDERGROUND INFRASTRUCTURE OF REIL AND PAPI
13. INSTALL AIRPORT SIGNAGE
14. RE-LEVEL EXISTING SNOW REMOVAL EQUIPMENT BUILDING(S) (SREB)
15. APPLY DUST PALLIATIVE ON ALL RESURFACED AND EXPANDED AREAS
16. CONSTRUCT RIPRAP REVETMENT AND BARGE LANDING

LEGEND

STAGING / STOCKPILE AREA

PROJECT LAYOUT PLAN GENERAL NOTES:

1. ALL CONSTRUCTION ACTIVITY SHALL REMAIN WITHIN THE AIRPORT PROPERTY BOUNDARY.
2. LOCATE CONSTRUCTION STAGING WITHIN THE ACTIVE WORK AREA OR AS SHOWN.
3. IMPORTED MATERIAL MAY ONLY BE STAGED IN THE CONTRACTOR STAGING/STOCKPILE AREA OR AS DIRECTED BY THE ENGINEER.
4. CONTRACTOR MAY USE DISPOSAL AREA FOR STAGING AND STOCKPILING. IMPORTED MATERIAL TO BE REUSED WITHIN THE PROJECT MAY NOT BE STOCKPILED ON NATIVE GROUND, STOCKPILE MATERIALS ON A PAD CONSTRUCTED FROM UNCLASSIFIED MATERIAL WITH A SURFACE FREE OF PEAT AND ORGANIC MATERIAL OR ON A GEOTEXTILE SEPARATION FABRIC. PRIOR TO TOPSOILING AND SEEDING, GRADE DISPOSAL AREA TO DRAIN AWAY FROM THE RUNWAY AND AWOS ACCESS ROAD AND BE FREE OF STANDING WATER. TOPSOIL AND SEED ALL DISTURBED AREAS.
5. OHE CROSSING 16.0' CLEARANCE PER 2021 SURVEY. PROTECT IN PLACE AND MAINTAIN SERVICE AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY CLEARANCES AND FOR ANY NECESSARY UTILITY COORDINATION.

300' 150' 0 300' 600'

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
PROJECT LAYOUT PLAN

DATE: 01/29/2024

SHEET: 5 OF 36

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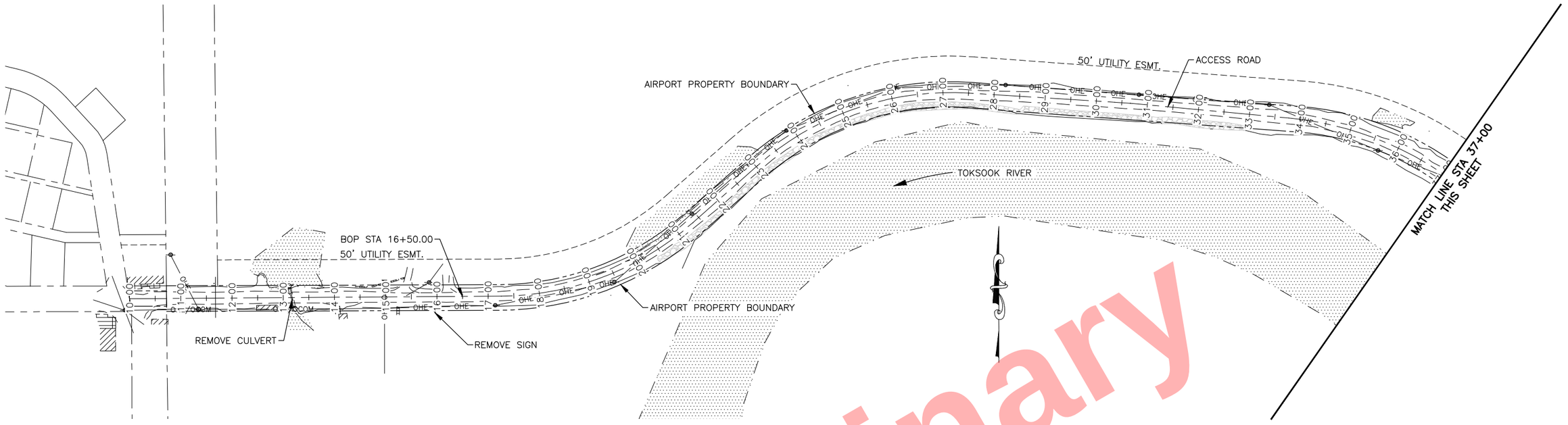

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
DEMOLITION PLAN

DATE: 01/29/2024

SHEET: 6 OF 36

DEMOLITION NOTES:

1. REFER TO THE ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION INFORMATION.
2. THE LOCATION OF EXISTING UTILITIES SHOWN ARE BASED OFF FIELD SURVEY AND AS-BUILT RECORDS. THEY ARE APPROXIMATE LOCATIONS ONLY AND NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR TO FIELD LOCATE UTILITIES PRIOR TO EXCAVATION.

100' 50' 0 100' 200'

LEGEND

STAGING / STOCKPILE AREA

REMOVE AND REPLACE WITH LIGHTED SUPPLEMENTARY WIND CONE

REMOVE FAA NAVAID CONDUITS (SEE ELECTRICAL PLANS)

BURIED THERMISTOR CABLE (PROTECT IN PLACE)

BURIED THERMISTOR CABLE (PROTECT IN PLACE)

BURIED THERMISTOR CABLE (PROTECT IN PLACE)

REMOVE THRESHOLD LIGHTS & THRESHOLD MARKERS (SEE ELECTRICAL PLANS)

REMOVE RW EDGE LIGHTING (SEE ELECTRICAL PLANS)

BURIED THERMISTOR CABLE (PROTECT IN PLACE)

BURIED THERMISTOR CABLE (PROTECT IN PLACE)

MATCH LINE STA 1026+00 THIS SHEET

AIRPORT PROPERTY BOUNDARY

SEE SHEET 6 FOR ACCESS ROAD DEMO

REMOVE BROKEN SIGN POST

REMOVE ROTATING BEACON (SEE ELECTRICAL PLAN)

REMOVE AND RELOCATE SREB (SEE SREB SITING PLAN)

CONTRACTOR STAGING/STOCKPILE AREA

REMOVE BOLLARDS (TYP) (THIS SREB ONLY)

REMOVE AND REPLACE DOOR PROTECTION BOLLARDS (TYP) (THIS SREB ONLY)

REMOVE TW EDGE LIGHTING (SEE ELECTRICAL PLANS)

REMOVE FAA NAVAID CONDUITS (SEE ELECTRICAL PLANS)

TOKSOOK RIVER

MATCH LINE STA 1026+00 THIS SHEET

REMOVE RW EDGE LIGHTING (SEE ELECTRICAL PLANS)

REMOVE FAA NAVAID CONDUITS (SEE ELECTRICAL PLANS)

REMOVE THRESHOLD LIGHTS & THRESHOLD MARKERS (SEE ELECTRICAL PLANS)

DISPOSAL/CONTRACTOR STAGING/STOCKPILE AREA

REMOVE AND REPLACE WITH LIGHTED WIND CONE

AIRPORT PROPERTY BOUNDARY

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PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
DEMOLITION PLAN

DATE: 01/29/2024
SHEET: 7 OF 36

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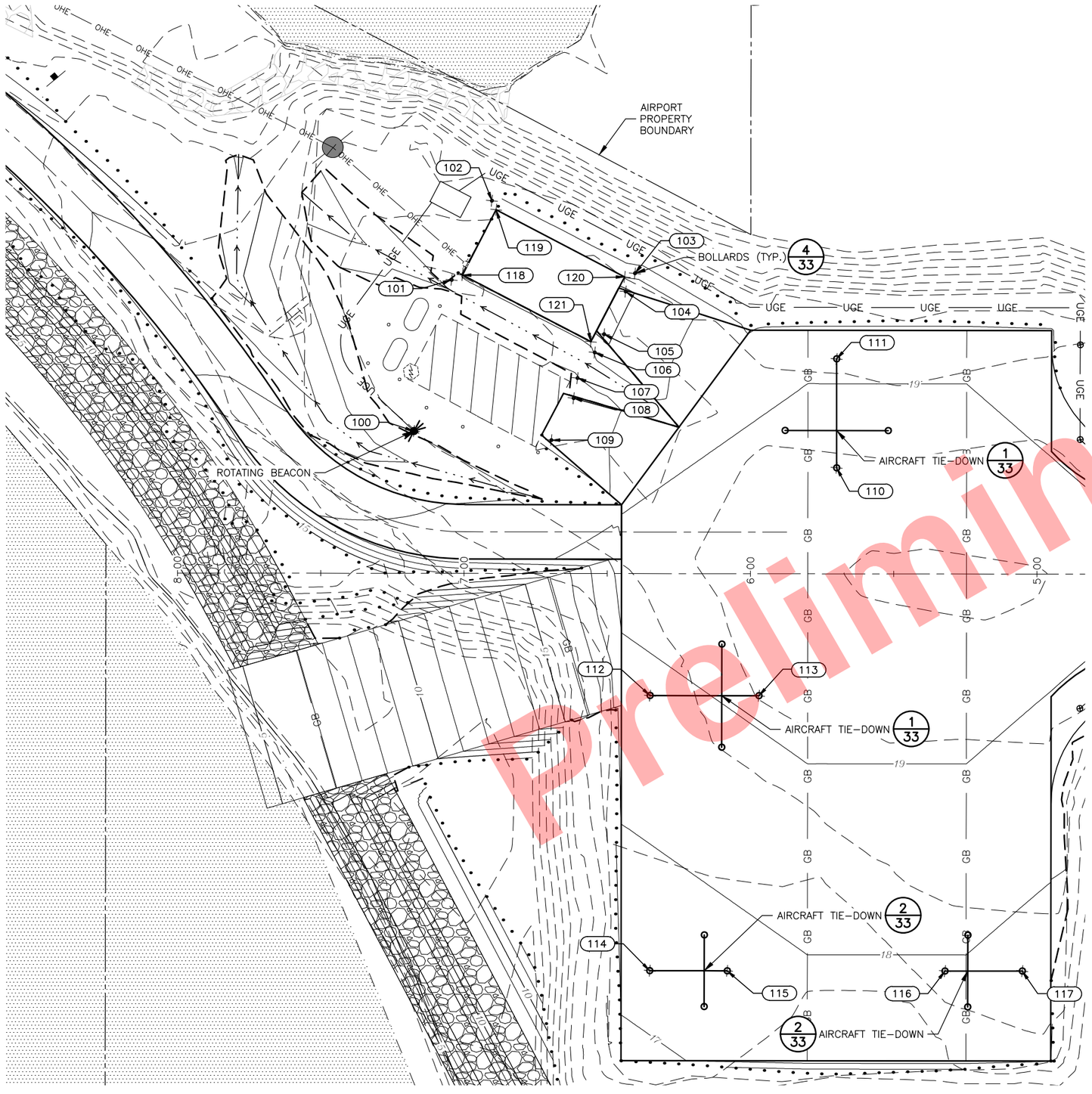


SREB & TIE-DOWN TABLE			
POINT #	STATION	OFFSET	DESCRIPTION
100	7+17.49	49.68R	ROTATING BEACON
101	7+04.42	102.43R	BOLLARD
102	6+90.41	130.08R	BOLLARD
103	6+40.45	104.78R	BOLLARD
104	6+43.69	98.39R	BOLLARD
105	6+51.22	83.52R	BOLLARD
106	6+54.46	77.13R	BOLLARD
107	6+60.45	68.21R	BOLLARD
108	6+61.80	61.19R	BOLLARD
109	6+69.60	46.55R	BOLLARD
110	5+70.00	37.00RT	TIE-DOWN
111	5+70.00	75.00RT	TIE-DOWN
112	6+35.00	42.59L	TIE-DOWN
113	5+97.00	42.59L	TIE-DOWN
114	6+35.00	138.62L	TIE-DOWN
115	6+08.00	138.62L	TIE-DOWN
116	5+32.00	138.62L	TIE-DOWN
117	5+05.00	138.62L	TIE-DOWN
118	7+00.65	104.14RT	CORNER OF SREB
119	6+88.90	126.97RT	CORNER OF SREB
120	6+44.06	103.54RT	CORNER OF SREB
121	6+55.79	80.91RT	CORNER OF SREB

NOTES:

1. SEE ITEM P-165 FOR SREB TEMPORARY RELOCATION REQUIREMENTS. FIELD SURVEY EXISTING LOCATION OF SREB BEFORE RELOCATION.

20' 10' 0 20' 40'

BY	DATE	REVISION

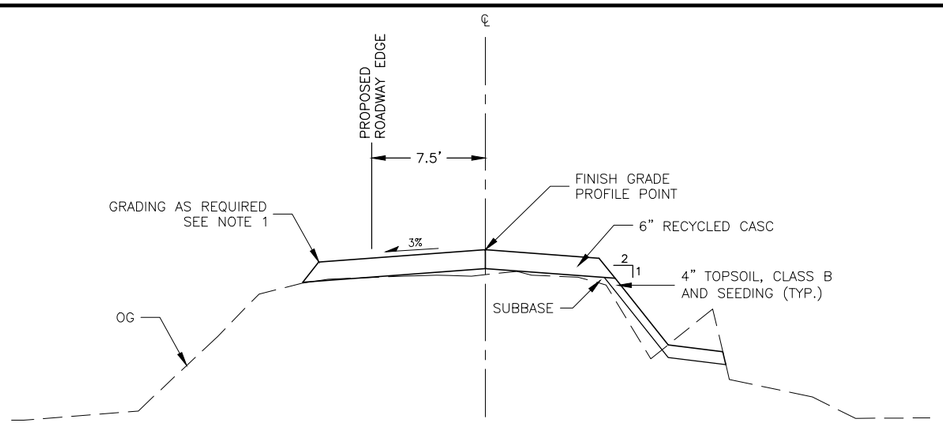
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
SREB SITE PLAN

DATE: 01/29/2024
SHEET: 8 OF 36

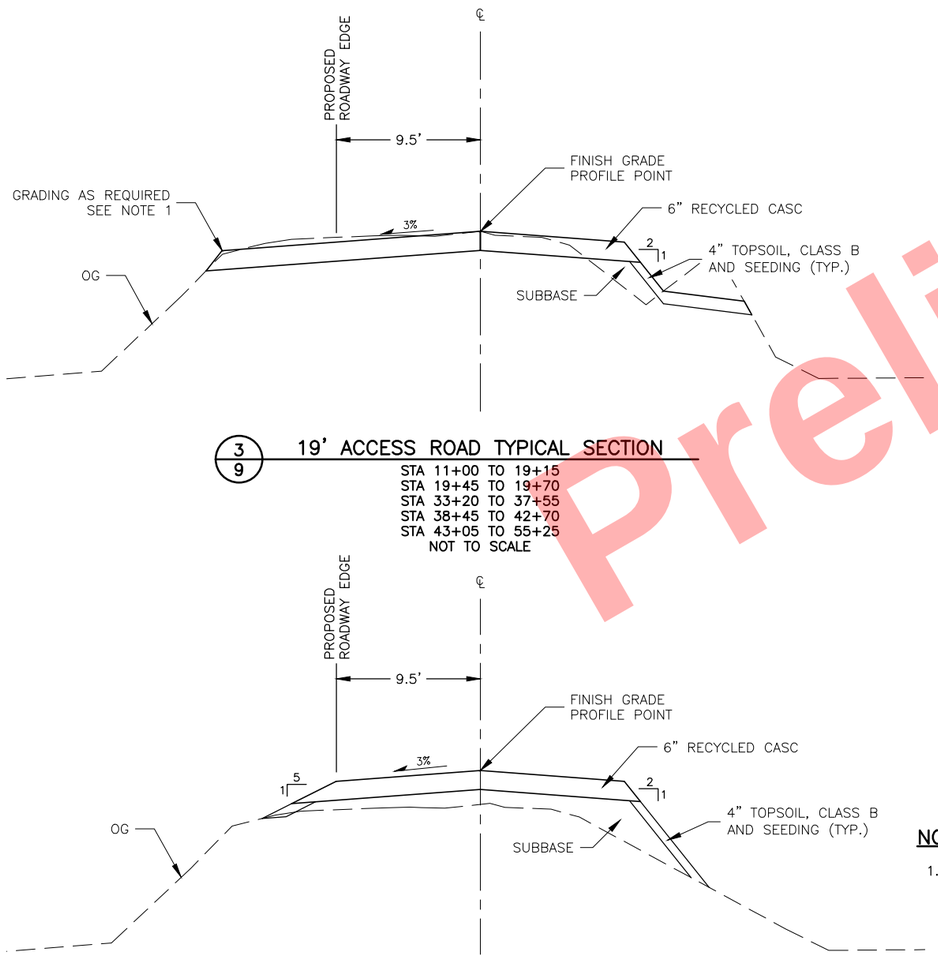
Designed By: XXX
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: SREB SITE PLAN
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civ3D\Planset\00572-Plan & Profile.dwg
1/29/2024, 1:16 PM



1/9 15' ACCESS ROAD TYPICAL SECTION

STA 20+20 TO 22+75
STA 23+05 TO 33+20
NOT TO SCALE



3/9 19' ACCESS ROAD TYPICAL SECTION

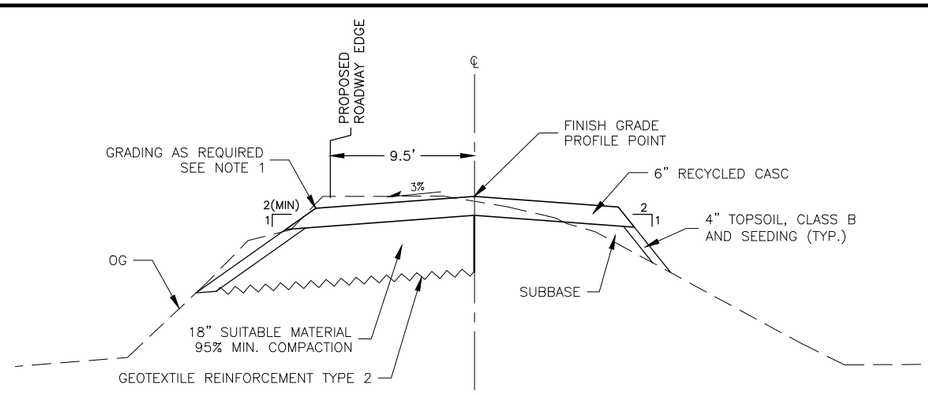
STA 11+00 TO 19+15
STA 19+45 TO 19+70
STA 33+20 TO 37+55
STA 38+45 TO 42+70
STA 43+05 TO 55+25
NOT TO SCALE

5/9 19' ACCESS ROAD (LEFT 5:1) TYPICAL SECTION

STA 55+25 TO 58+49.35
NOT TO SCALE

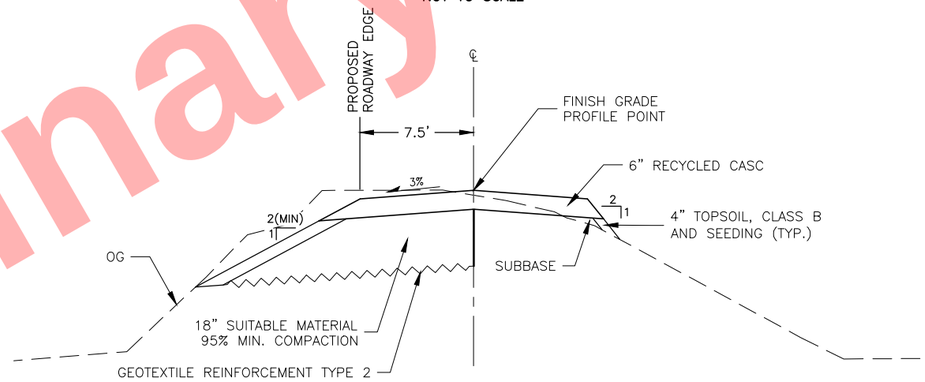
NOTES:

1. FOR CUT CONDITION AT THE ROADWAY EDGE, EXTEND THE CASC SECTION AS REQUIRED TO DAYLIGHT EXISTING GROUND.



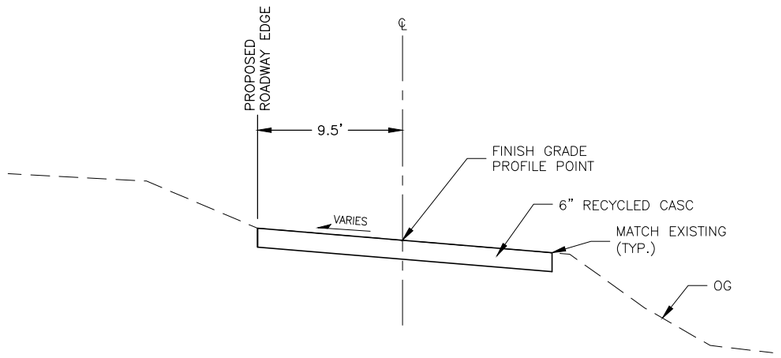
2/9 19' ACCESS ROAD (ROAD CRACK) TYPICAL SECTION

STA 19+15 TO 19+45
STA 19+70 TO 19+90
STA 37+55 TO 38+45
STA 42+70 TO 43+05
NOT TO SCALE



4/9 15' ACCESS ROAD (ROAD CRACK) TYPICAL SECTION

STA 19+90 TO 20+20
STA 22+75 TO 23+05
NOT TO SCALE



6/9 19' ACCESS ROAD TYPICAL SECTION

STA 10+00 TO 11+00
NOT TO SCALE

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC

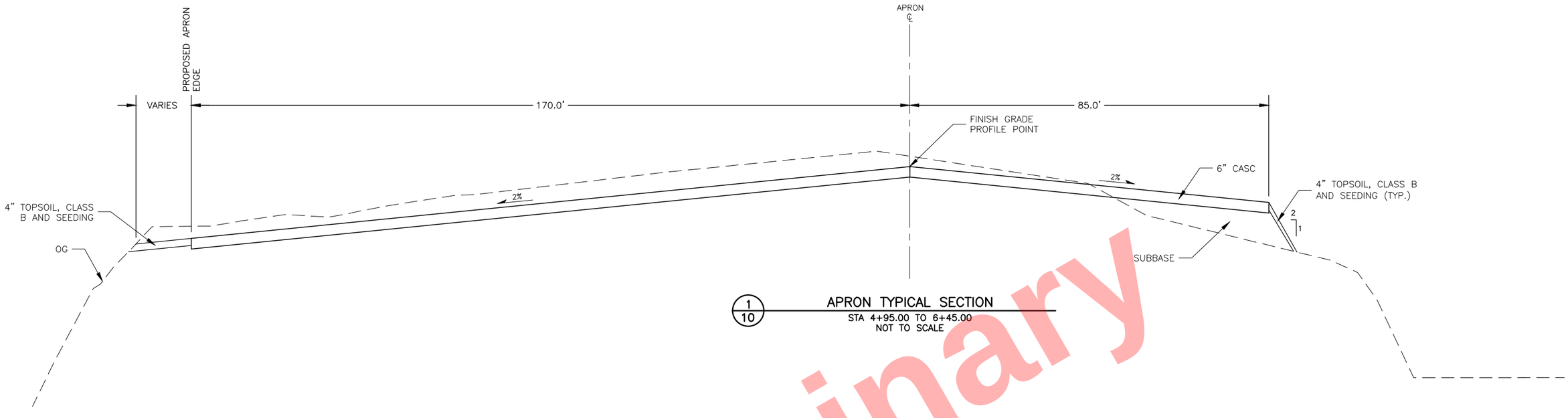
Date Revised:	1/29/2024, 1:16 PM
Layout Name:	AR TYPICALS 1
File Path and Names:	W:\Projects\Nightmute\Nightmute Imp. 00572\Civ3D\Planset\00572-Typicals.dwg

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

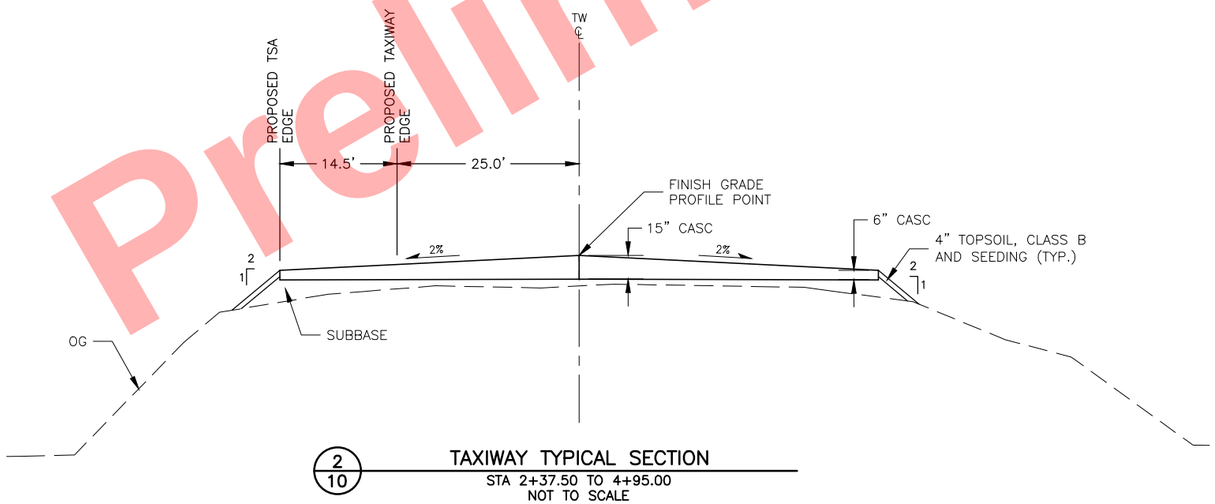
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
ACCESS ROAD TYPICALS

DATE: 01/29/2024
SHEET: 9 OF 36



1/10 APRON TYPICAL SECTION

STA 4+95.00 TO 6+45.00
NOT TO SCALE



2/10 TAXIWAY TYPICAL SECTION

STA 2+37.50 TO 4+95.00
NOT TO SCALE

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/29/2024, 1:16 PM
Layout Name:	APRON TYPICALS 1
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp 00572\Civ30\Planset\00572-Typicals.dwg

BY	DATE	REVISION

STATE OF ALASKA
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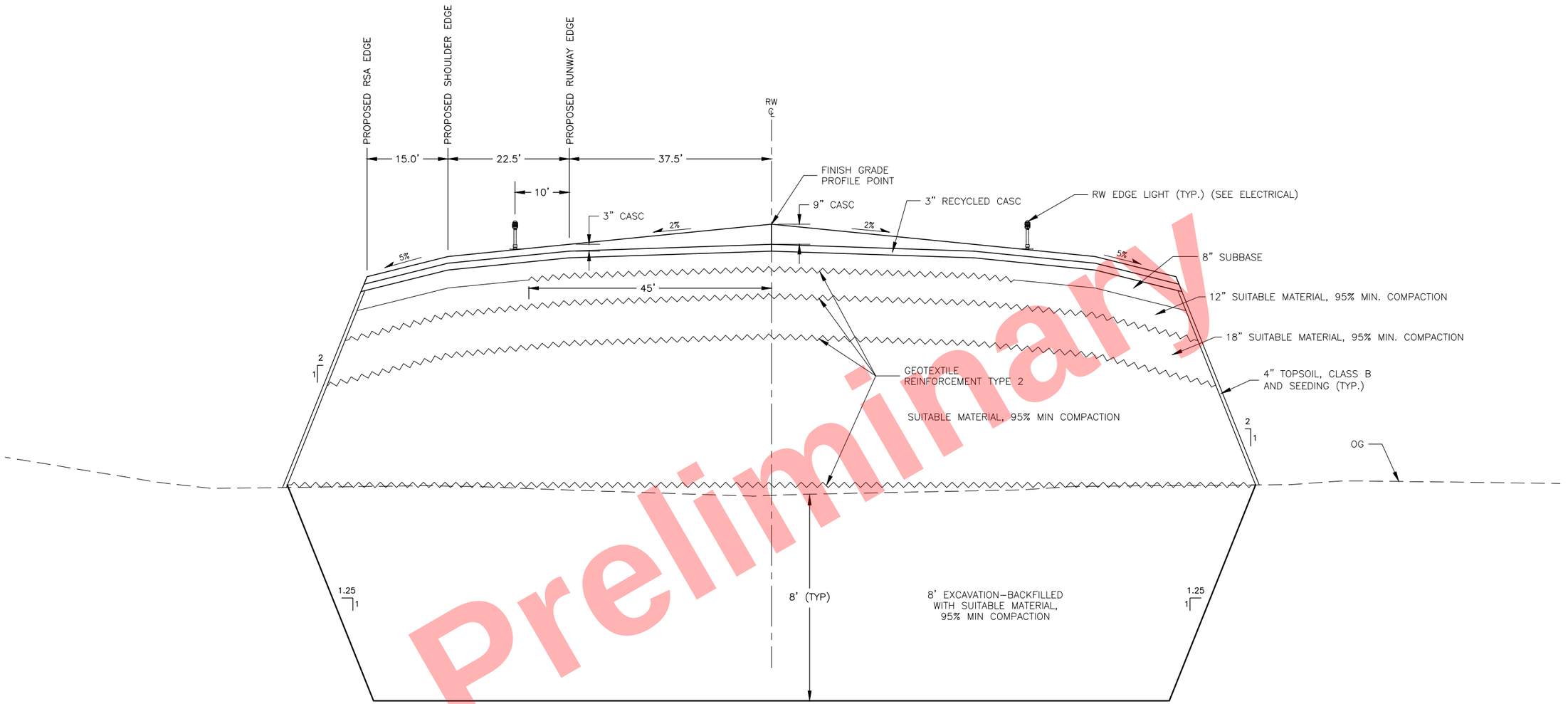
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
APRON & TAXIWAY TYPICALS

DATE: 01/29/2024



1/11 RW TYPICAL SECTION

STA 1012+00.00 TO 1012+40.00
NOT TO SCALE

NOTES:

1. KEEP EXCAVATIONS DRY PRIOR TO PLACING BACKFILL. BACKFILL OPERATIONS SHALL IMMEDIATELY FOLLOW RSA EXTENSION SUB EXCAVATIONS.

BY	DATE	REVISION

STATE OF ALASKA
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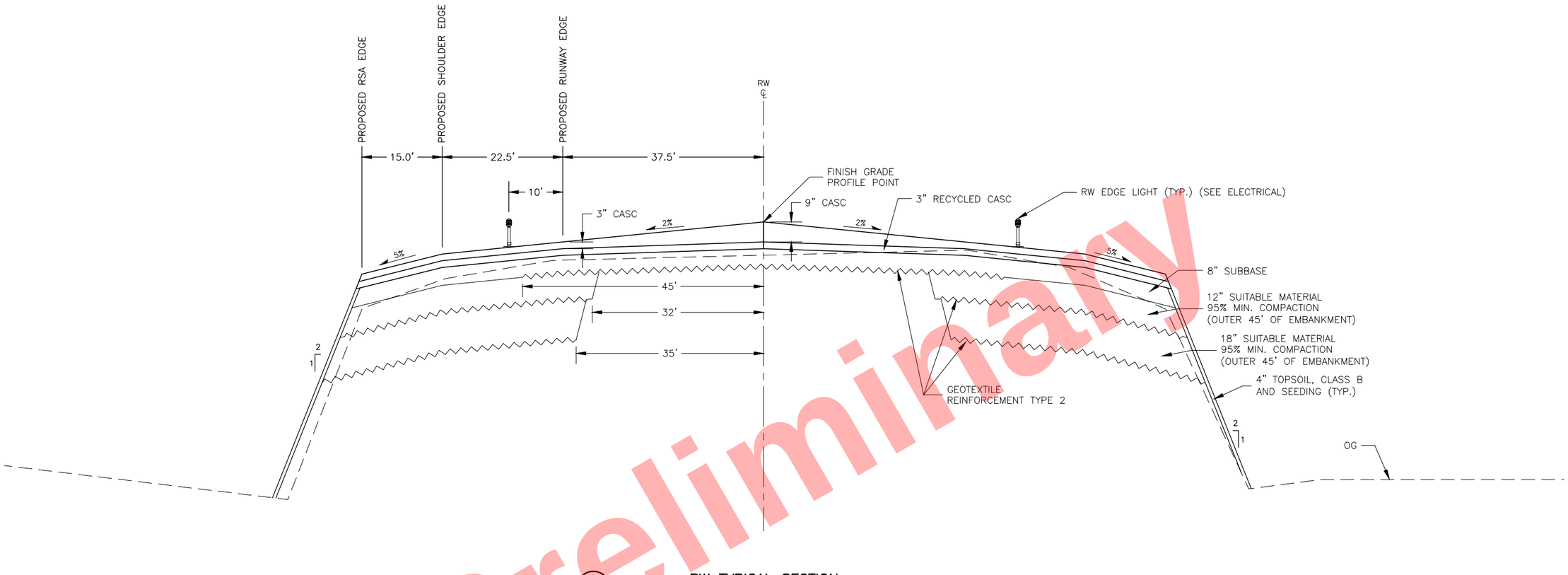
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
RUNWAY TYPICALS

DATE: 01/29/2024
SHEET: 11 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC

Date Revised: 1/29/2024, 1:16 PM
Layout Name: RW TYPICALS 1
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D\Planset\00572-Typicals.dwg



1/12 RW TYPICAL SECTION

STA 1012+40.00 TO 1028+50.00
STA 1029+50.00 TO 1050+00.00
NOT TO SCALE

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC
Date Revised:	1/29/2024, 1:16 PM
Layout Name:	RW TYPICALS 2
File Path and Name:	W:\Projects\Nightmute\Nightmute_imp_00572\Civil3D\Planset\00572-TypicalsI.dwg

BY	DATE	REVISION

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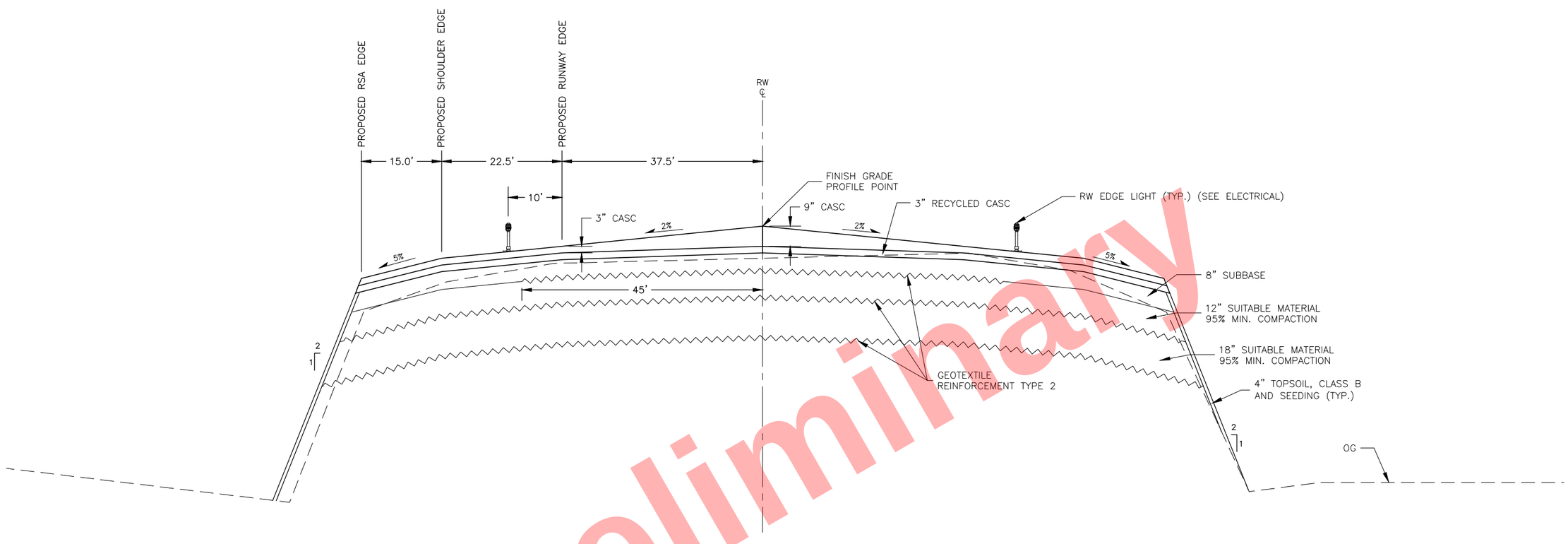
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
RUNWAY TYPICALS

DATE: 01/29/2024

SHEET: 12 OF 36



1/13 RW TYPICAL SECTION

STA 1028+50.00 TO 1029+50.00
NOT TO SCALE

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/29/2024, 1:16 PM
Layout Name:	RW TYPICALS 3
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D\Planset\00572-Typicals.dwg

BY	DATE	REVISION

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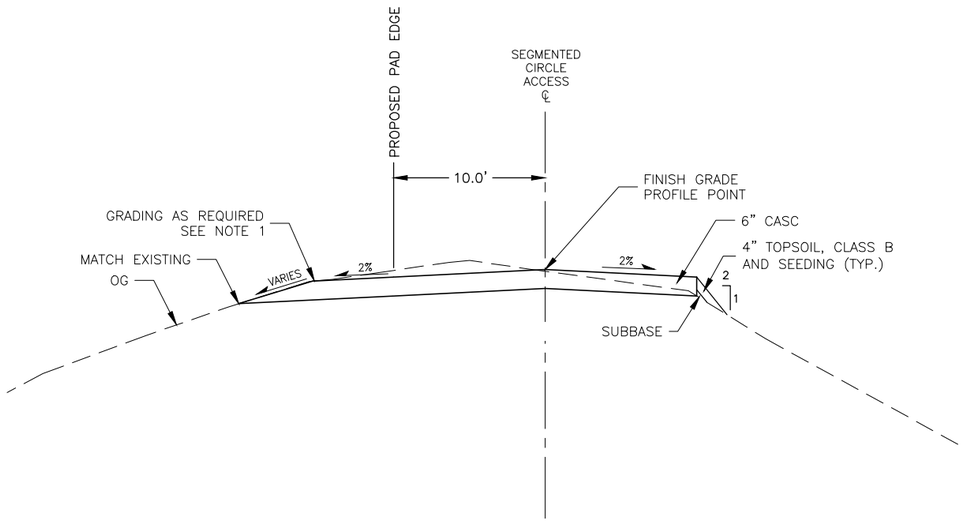
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
RUNWAY TYPICALS

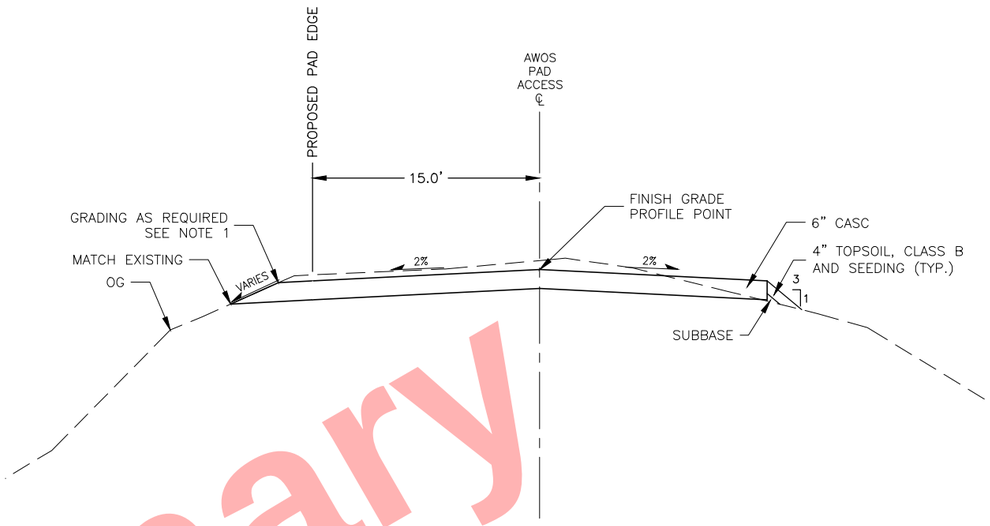
DATE: 01/29/2024

SHEET: 13 OF 36



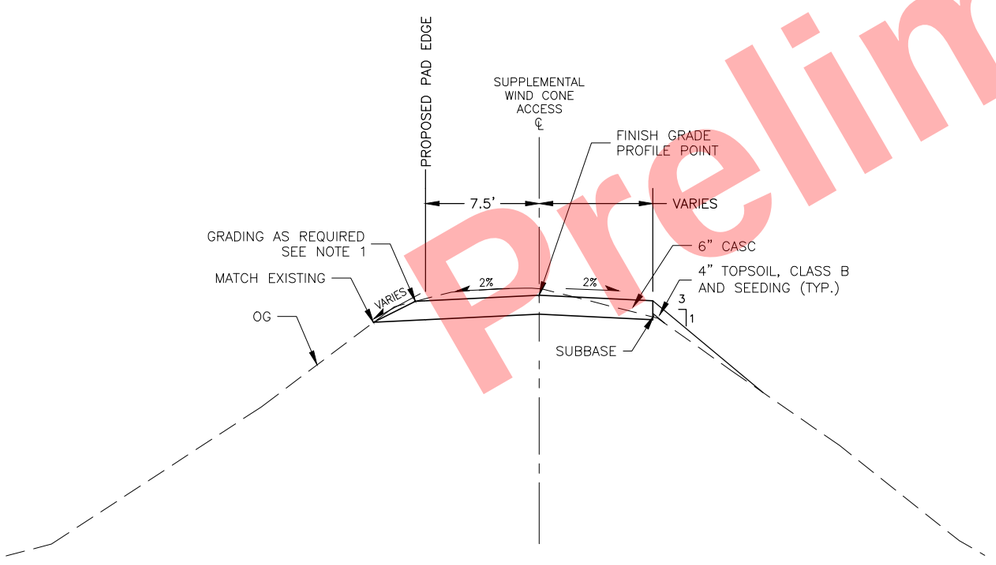
1/14 SEGMENTED CIRCLE ACCESS TYPICAL SECTION

STA 85+75.00 TO 87+33.20
NOT TO SCALE



2/14 AWOS PAD ACCESS TYPICAL SECTION

STA 75+75.00 TO 79+15.50
NOT TO SCALE



3/14 SUPPLEMENTAL WIND CONE ACCESS TYPICAL SECTION

STA 70+75.00 TO 72+65.00
NOT TO SCALE

NOTES:

1. FOR CUT CONDITION AT THE SEGMENTED CIRCLE ACCESS, SUPPLEMENTAL WIND CONE ACCESS, AND AWOS PAD ACCESS, EXTEND THE CASC SECTION AS REQUIRED TO DAYLIGHT EXISTING GROUND.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
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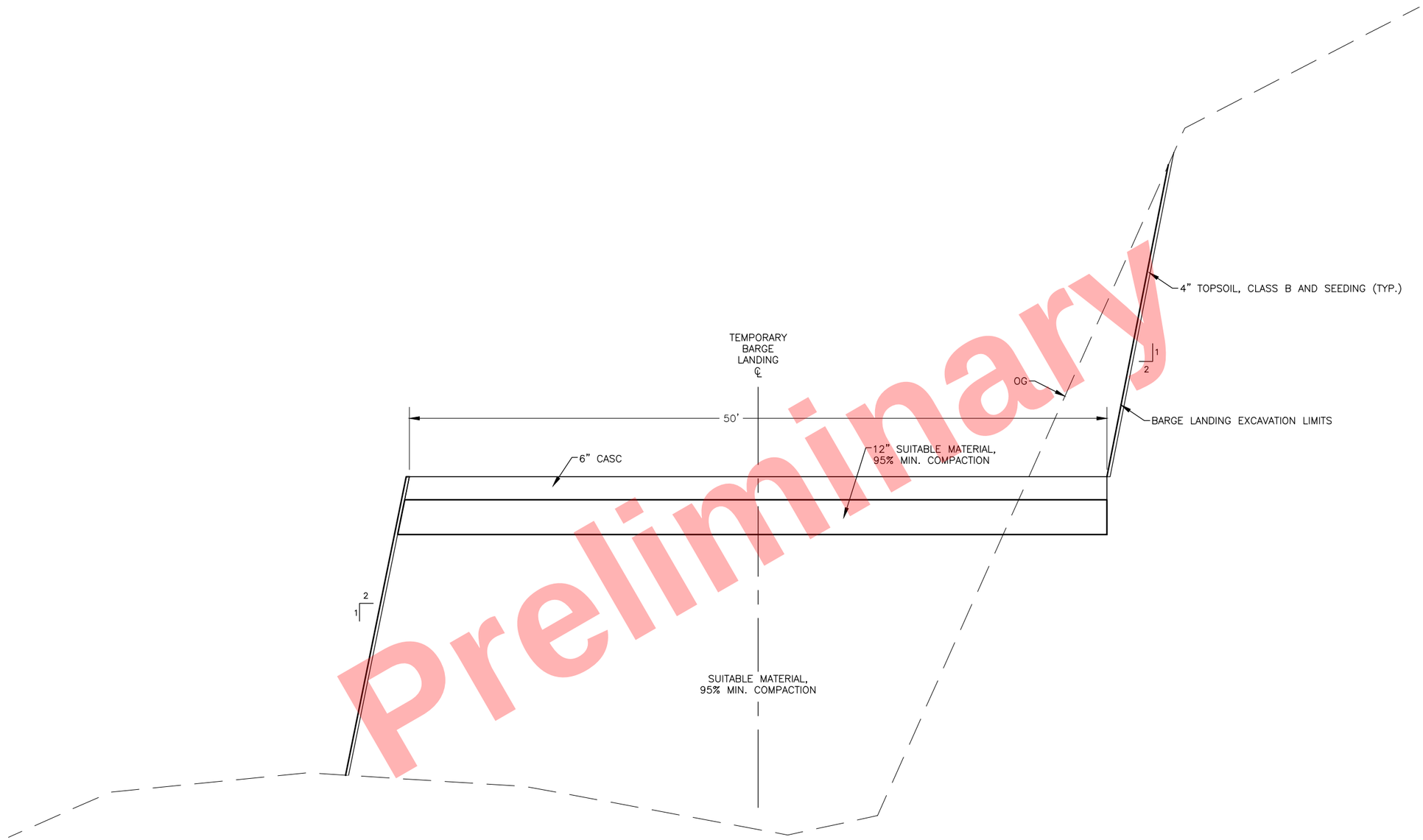
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
WIND CONE, SUPPLEMENTAL WIND CONE, & PAD TYPICALS

DATE: 01/29/2024
SHEET: 14 OF 36

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC
Date Revised:	1/29/2024, 1:16 PM
Layout Name:	MISC TYPICALS
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D Planset\00572-Typicals.dwg



1/15 BARGE LANDING TYPICAL SECTION
AT STA 601+25
NOT TO SCALE

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/29/2024, 1:16 PM
Layout Name:	BARGE_TYPICALS_(2)
File Path and Name:	W:\Projects\Nightmute\Nightmute_Imp_00572\Civil3D Planset\00572-Typicals.dwg

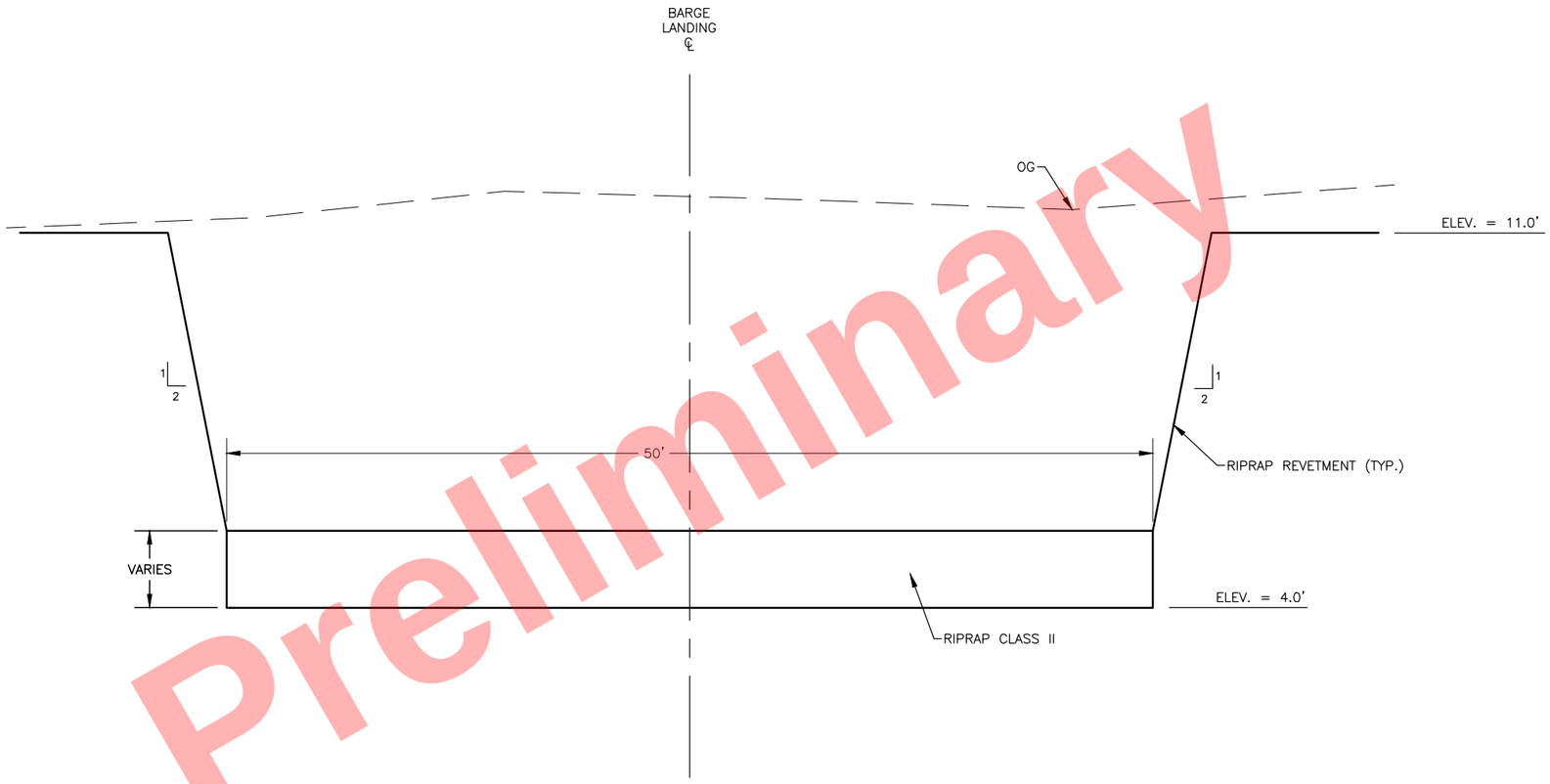
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
BARGE LANDING TYPICALS

DATE: 01/29/2024

SHEET: 15 OF 36



1/16 BARGE LANDING TYPICAL SECTION

AT STA 600+70
NOT TO SCALE

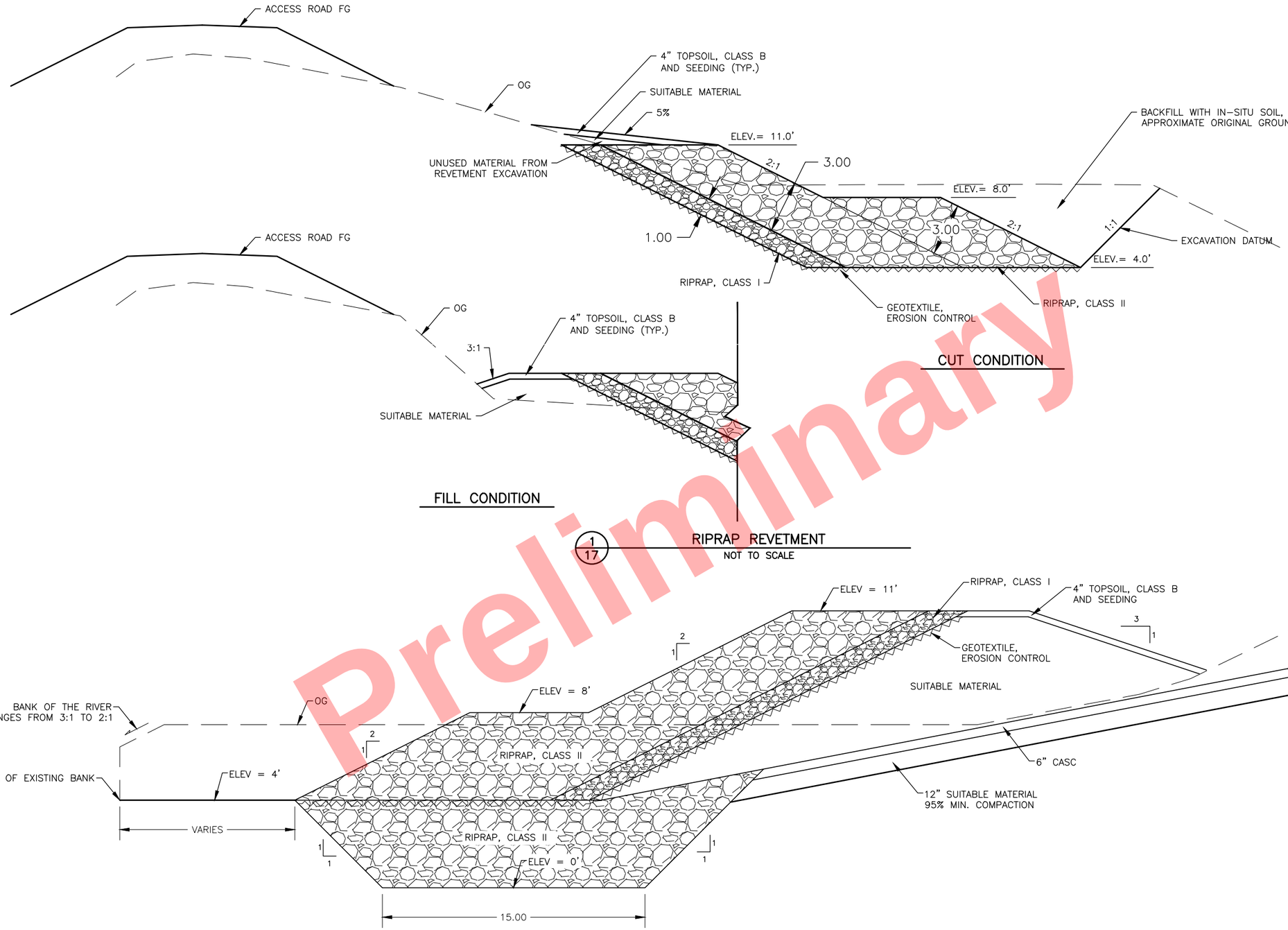
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
BARGE LANDING TYPICALS

DATE: 01/29/2024

SHEET: 16 OF 36



1/17 RIPRAP REVETMENT
NOT TO SCALE

2/17 RIPRAP AT BARGE LANDING
NOT TO SCALE

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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4111 AVIATION AVE., ANCHORAGE ALASKA 99502
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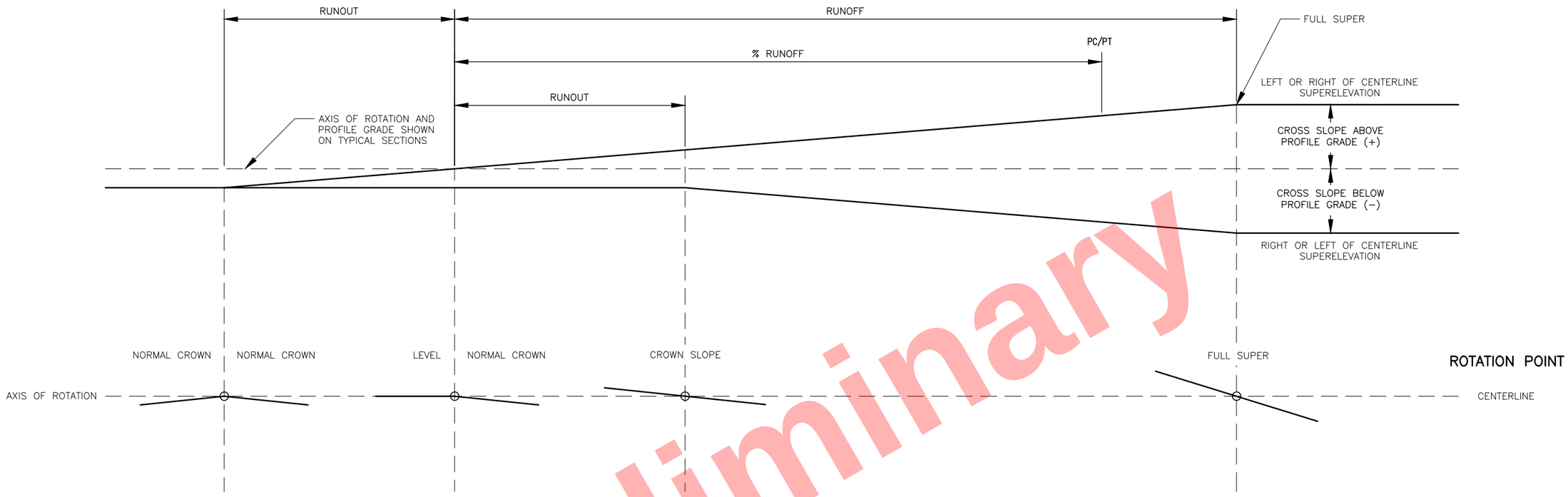
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
RIPRAP REVETMENT TYPICALS

DATE: 01/29/2024
SHEET: 17 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/29/2024, 1:16 PM
File Path and Names: RIPRAP REVETMENT TYPICALS
W:\Projects\Nightmute\Nightmute Imp. 00572\Civ3D\Planset\00572-Typicals.dwg



SUPERELEVATION TRANSITION

NOTES:

1. BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDERS.
2. % RUNOFF = PORTION OF RUNOFF ON TANGENT.
3. WIDENING FOR GUARDRAIL OR CURVATURE DOES NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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4111 AVIATION AVE., ANCHORAGE ALASKA 99502
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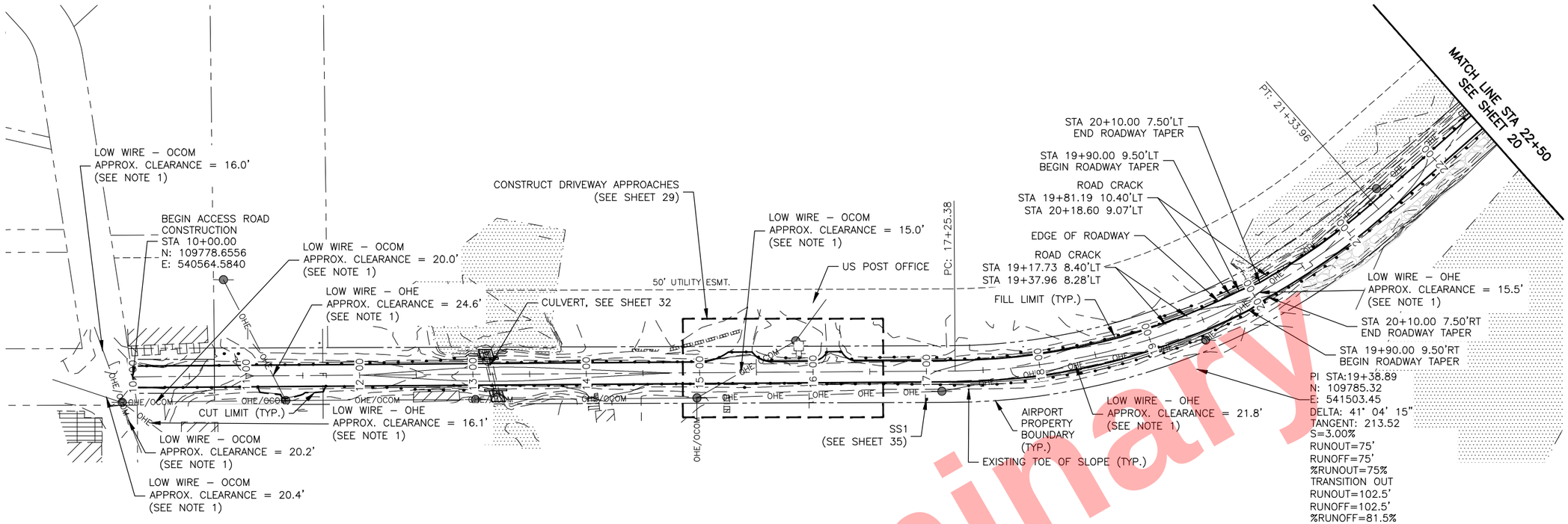
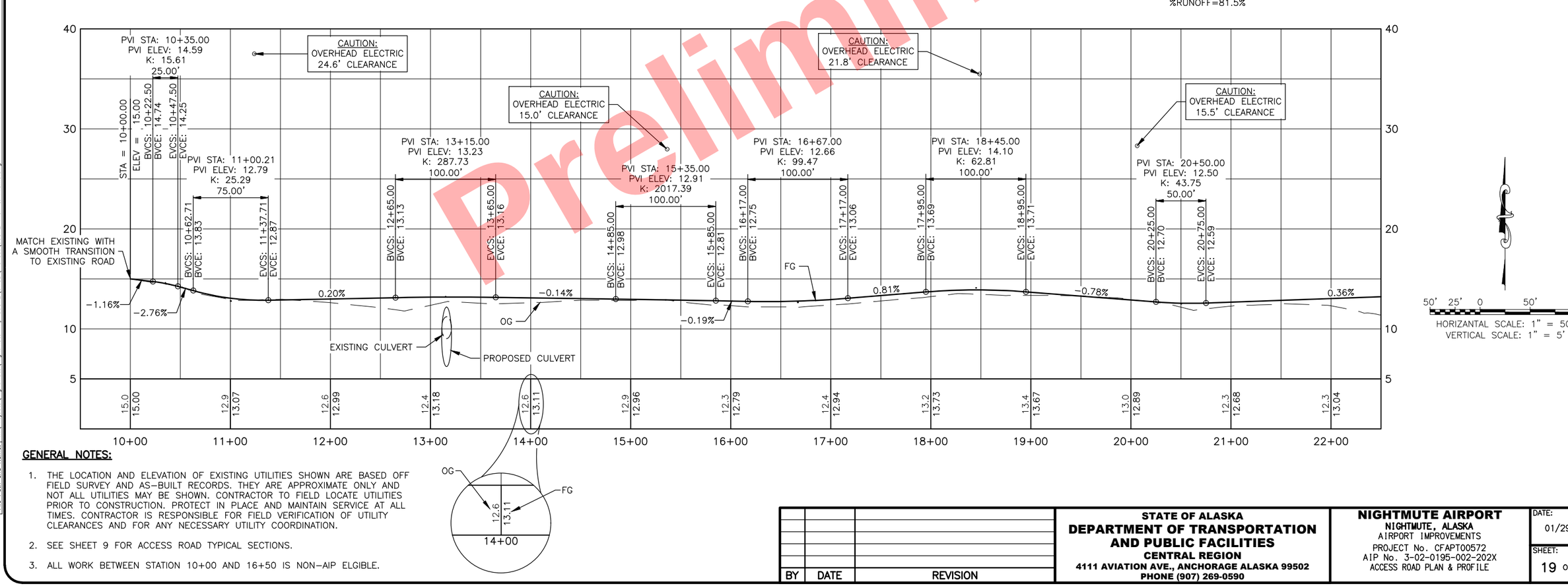
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
SUPERELEVATION TRANSITION

DATE: 01/29/2024
SHEET: 18 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC

Date Revised: 1/29/2024, 1:16 PM
Layout Name: SUPER TRANSITIONS
File Path and Names: W:\Projects\Nightmute\Nightmute Imp 00572\Civ3D\Planset\00572-TypicalTs.dwg





GENERAL NOTES:

1. THE LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN ARE BASED OFF FIELD SURVEY AND AS–BUILT RECORDS. THEY ARE APPROXIMATE ONLY AND NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR TO FIELD LOCATE UTILITIES PRIOR TO CONSTRUCTION. PROTECT IN PLACE AND MAINTAIN SERVICE AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY CLEARANCES AND FOR ANY NECESSARY UTILITY COORDINATION.
2. SEE SHEET 9 FOR ACCESS ROAD TYPICAL SECTIONS.
3. ALL WORK BETWEEN STATION 10+00 AND 16+50 IS NON–AIP ELGIBLE.

BY	DATE	REVISION

STATE OF ALASKA
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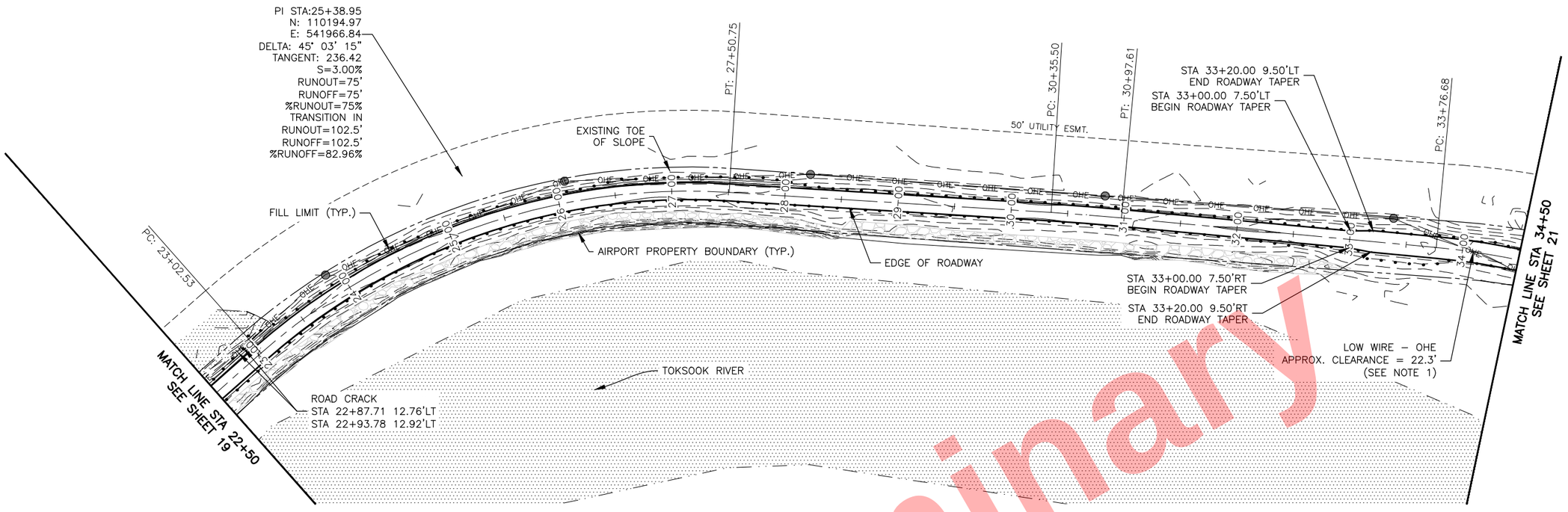
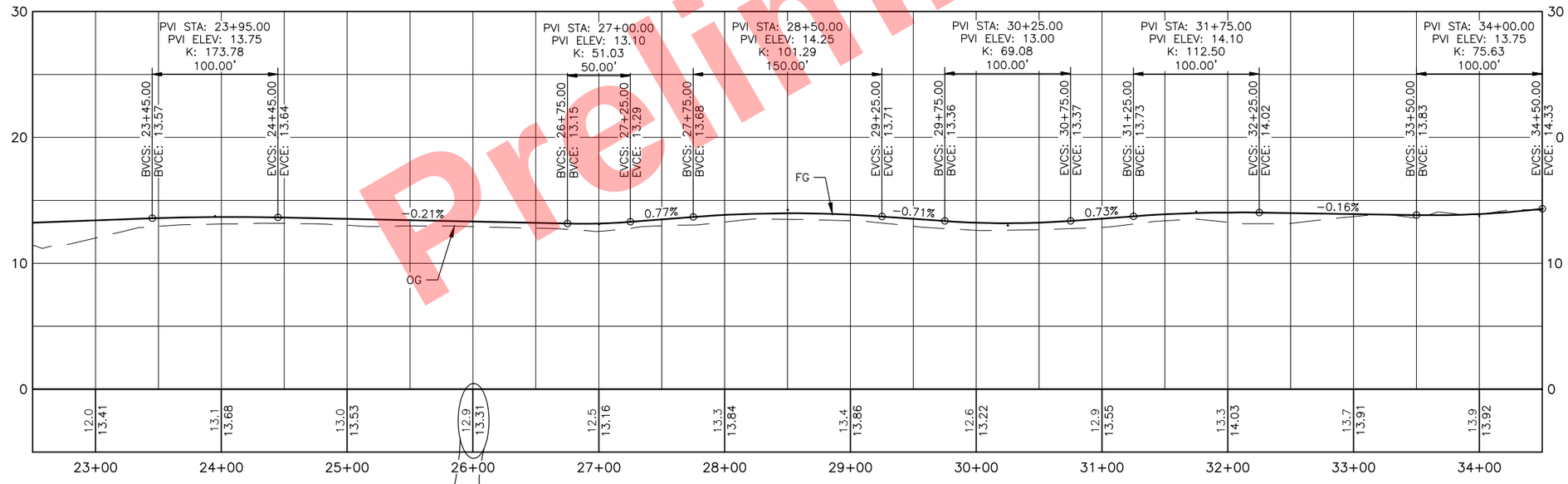
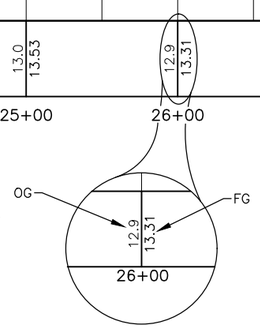
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
ACCESS ROAD PLAN & PROFILE

DATE: 01/29/2024
SHEET: 19 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC
Date Revised: 1/29/2024, 1:16 PM
Layout Name: ROAD P&P 1
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D Planset\00572–Plan & Profile.dwg







50' 25' 0 50' 100'

HORIZANTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

GENERAL NOTES:

1. THE LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN ARE BASED OFF FIELD SURVEY AND AS–BUILT RECORDS. THEY ARE APPROXIMATE ONLY AND NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR TO FIELD LOCATE UTILITIES PRIOR TO CONSTRUCTION. PROTECT IN PLACE AND MAINTAIN SERVICE AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY CLEARANCES AND FOR ANY NECESSARY UTILITY COORDINATION.
2. SEE SHEET 9 FOR ACCESS ROAD TYPICAL SECTIONS.

BY	DATE	REVISION

STATE OF ALASKA
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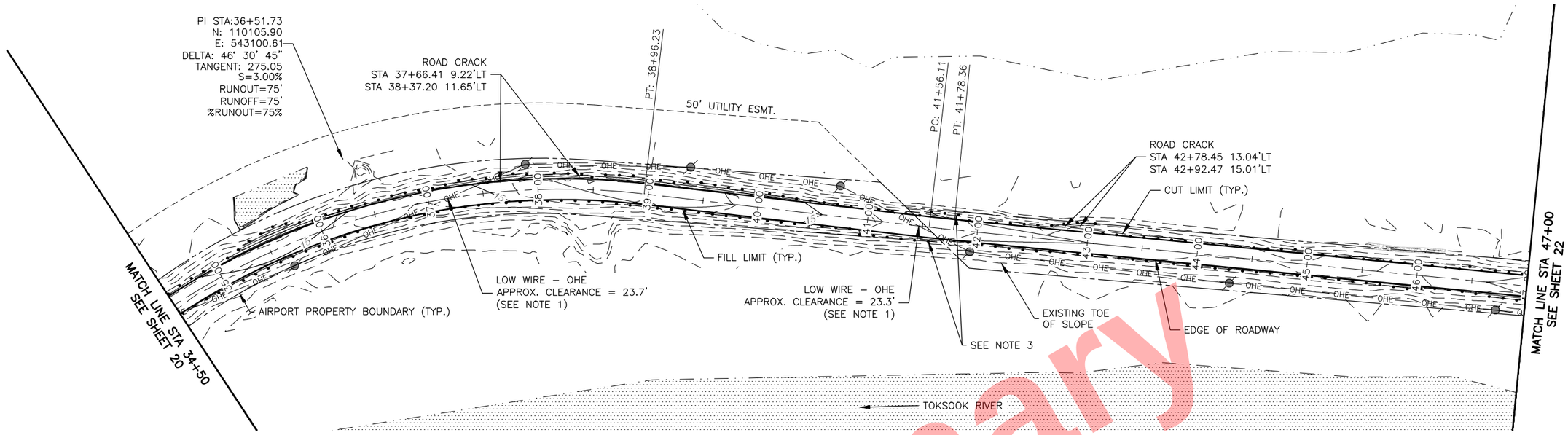
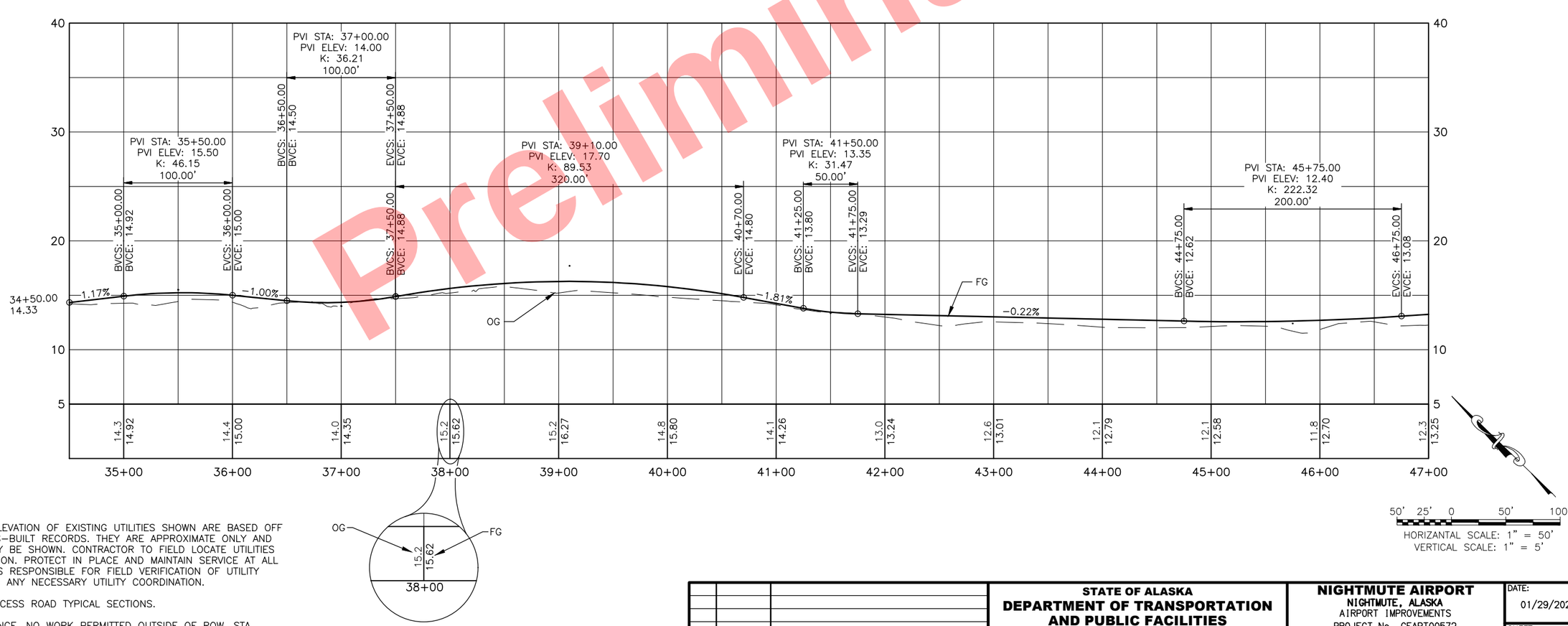
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
ACCESS ROAD PLAN & PROFILE

DATE: 01/29/2024
SHEET: 20 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC
Date Revised:
Layout Name: ROAD P&P 2
File Path and Names: W:\Projects\Nightmute\Nightmute Imp. 00572\Civ3D\Planset\00572-Plan & Profile.dwg
1/29/2024, 1:16 PM





GENERAL NOTES:

1. THE LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN ARE BASED OFF FIELD SURVEY AND AS–BUILT RECORDS. THEY ARE APPROXIMATE ONLY AND NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR TO FIELD LOCATE UTILITIES PRIOR TO CONSTRUCTION. PROTECT IN PLACE AND MAINTAIN SERVICE AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY CLEARANCES AND FOR ANY NECESSARY UTILITY COORDINATION.
2. SEE SHEET 9 FOR ACCESS ROAD TYPICAL SECTIONS.
3. NARROW ROW CLEARANCE. NO WORK PERMITTED OUTSIDE OF ROW. STA 41+00 TO 44+00 STEEPEN SLOPES AS NECESSARY THROUGH THE ENGINEER TO MAINTAIN WITHIN ROW.

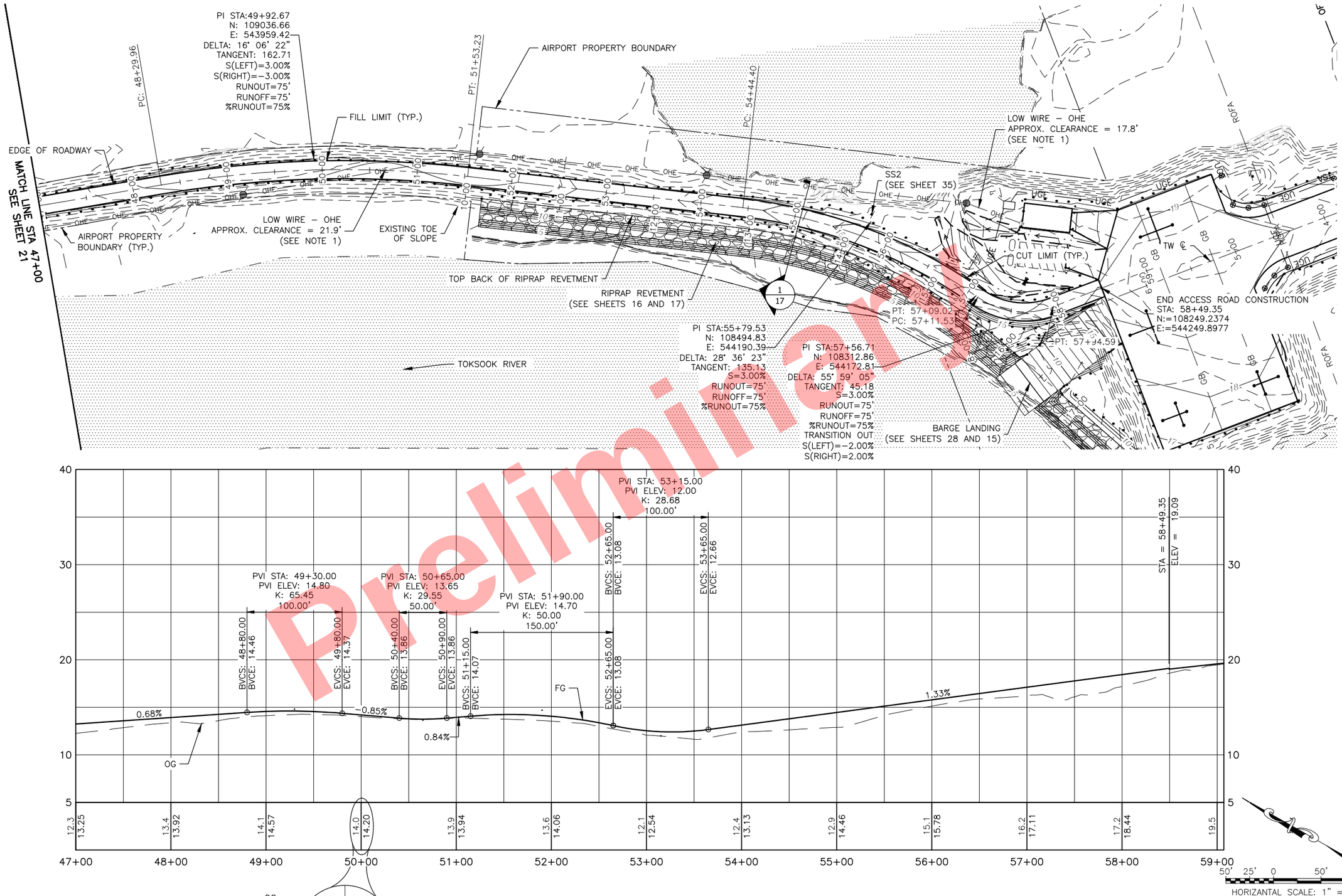
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
ACCESS ROAD PLAN & PROFILE

DATE: 01/29/2024
SHEET: 21 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC
Date Revised:
Layout Name: ROAD P&P 3
File Path and Name: W:\Projects\Nightmute Nightmute Imp 00572\Civil\Planset\00572-Plan & Profile.dwg
1/29/2024, 1:16 PM



GENERAL NOTES:

1. THE LOCATION AND ELEVATION OF EXISTING UTILITIES SHOWN ARE BASED OFF FIELD SURVEY AND AS-BUILT RECORDS. THEY ARE APPROXIMATE ONLY AND NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR TO FIELD LOCATE UTILITIES PRIOR TO CONSTRUCTION. PROTECT IN PLACE AND MAINTAIN SERVICE AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY CLEARANCES AND FOR ANY NECESSARY UTILITY COORDINATION.
2. SEE SHEET 9 FOR ACCESS ROAD TYPICAL SECTIONS.

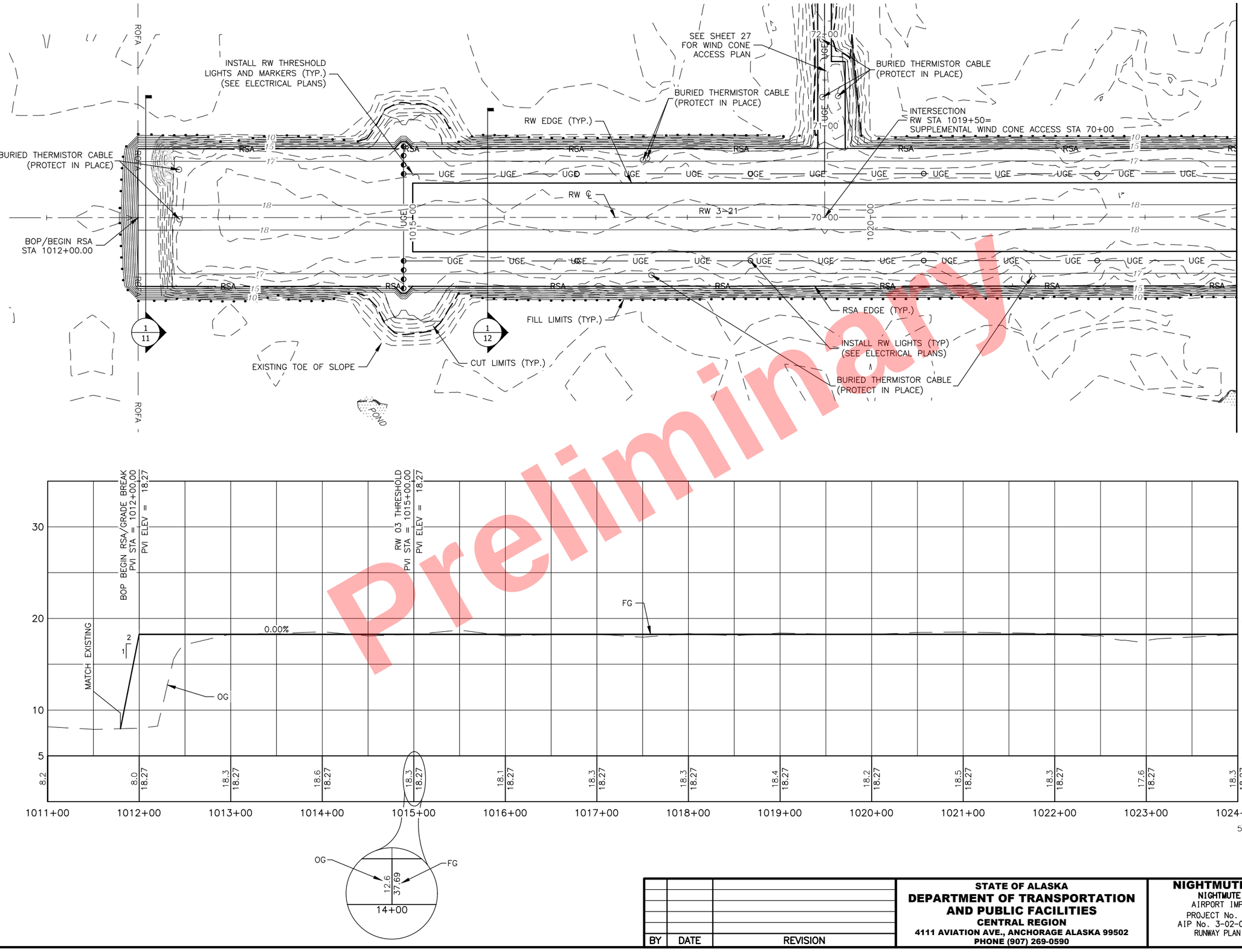
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
ACCESS ROAD PLAN & PROFILE

DATE: 01/29/2024
SHEET: 22 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC
Date Revised:
Layout Name: ROAD P&P 4
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civ3D\Planset\00572-Plan & Profile.dwg
1/29/2024, 1:44 PM



Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/29/2024, 1:17 PM
Layout Name:	RW P&P 1
File Path and Names:	W:\Projects\Nightmute\Nightmute Imp. 00572\Civ3D\Planset\00572-Plan & Profile.dwg

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
RUNWAY PLAN & PROFILE

DATE: 01/29/2024

SHEET: 23 OF 36

MATCH LINE STA 1024+00
SEE SHEET 23

MATCH LINE STA 1038+00
SEE SHEET 25

INTERSECTION
RW STA 1030+00=
AWOS PAD ACCESS STA 75+00

RW EDGE (TYP.)

RW 3-21

RW ℄

RSA

UGE

1025+00

1030+00

1035+00

1 / 12

1 / 13

EXISTING TOE OF SLOPE

SEE SHEET 27 FOR
AWOS PAD ACCESS PLAN

76+00

77+00

CUT LIMIT (TYP.)

INSTALL RW LIGHTS (TYP)
(SEE ELECTRICAL PLANS)

FILL LIMITS (TYP.)

RSA EDGE (TYP.)

POND

OG

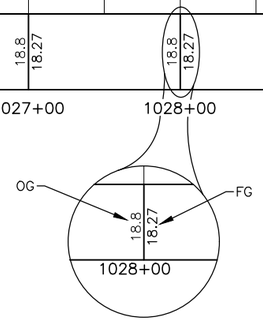
FG

0.00%

30
20
10
5

18.3 18.27 | 18.2 18.27 | 18.6 18.27 | 18.8 18.27 | 18.8 18.27 | 18.3 18.27 | 19.4 18.27 | 18.2 18.27 | 18.0 18.27 | 17.9 18.27 | 18.3 18.27 | 17.9 18.27 | 17.9 18.27 | 17.7 18.27 | 18.0 18.27

1024+00 1025+00 1026+00 1027+00 1028+00 1029+00 1030+00 1031+00 1032+00 1033+00 1034+00 1035+00 1036+00 1037+00 1038+00



50' 25' 0 50' 100'

HORIZANTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
RUNWAY PLAN & PROFILE

DATE: 01/29/2024

SHEET: 24 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/29/2024, 1:17 PM
File Path and Name: RW P&P 2
W:\Projects\Nightmute\Nightmute Imp 00572\Civil\Planset\00572-Plan & Profile.dwg

MATCH LINE STA 1038+00
SEE SHEET 24

INSTALL RW LIGHTS (TYP)
(SEE ELECTRICAL PLANS)

RW EDGE (TYP.)

SEE SHEET 26 FOR
TAXIWAY PLAN

TW ℄

INTERSECTION
RW STA 1045+75=
TW STA 2+00

INSTALL RW THRESHOLD LIGHTS AND MARKERS (TYP)
(SEE ELECETRICAL PLANS)

EOP/END RSA
RW STA 1050+00.00

RW ℄

RW 3-21

RSA EDGE (TYP.)

EXISTING TOE OF SLOPE

SEE SHEET 26 FOR
SEGMENTED CIRCLE PLAN

INTERSECTION
RW STA 1042+40=
SEGMENTED CIRCLE ACCESS STA 85+00

FILL LIMITS (TYP.)

CUT LIMITS (TYP.)

POND

ROFA

RSA

UGE

1040+00

1045+00

1050+00

85+00

86+00

87+00

4+00

3+00

2+00

1 / 12

PVI/GRADE BREAK
STA = 1043+25.00
PVI ELEV = 18.27

TW INTERSECTION/GRADE BREAK
VPI STA = 1045+75.00
PVI ELEV = 19.27

RW 21 THRESHOLD/GRADE BREAK
PVI STA = 1047+00.00
PVI ELEV = 19.27

EOP END RSA/GRADE BREAK
PVI STA = 1050+00.00
ELEV = 17.77

FG

OG

0.40%

0.00%

-0.50%

2
1

MATCH EXISTING

1038+00	1039+00	1040+00	1041+00	1042+00	1043+00	1044+00	1045+00	1046+00	1047+00	1048+00	1049+00	1050+00	1051+00	1052+00
18.0 / 18.27	18.0 / 18.27	18.6 / 18.27	18.3 / 18.27	17.5 / 18.27	17.5 / 18.27	17.4 / 18.57	17.6 / 18.97	17.9 / 19.27	17.3 / 19.27	17.7 / 18.77	17.5 / 18.27	15.8 / 17.77	9.0	8.7

30
20
10
5

OG
FG
17.5
18.27
1042+00

50' 25' 0 50' 100'
HORIZANTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

BY	DATE	REVISION

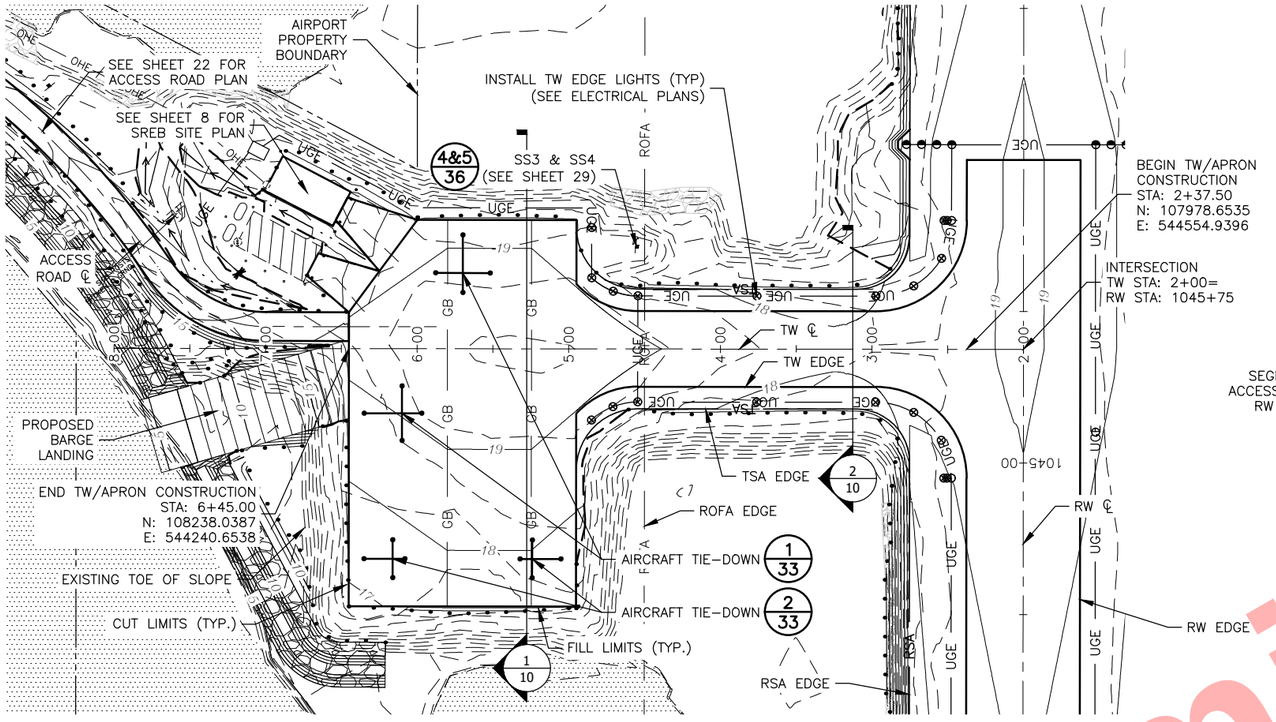
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

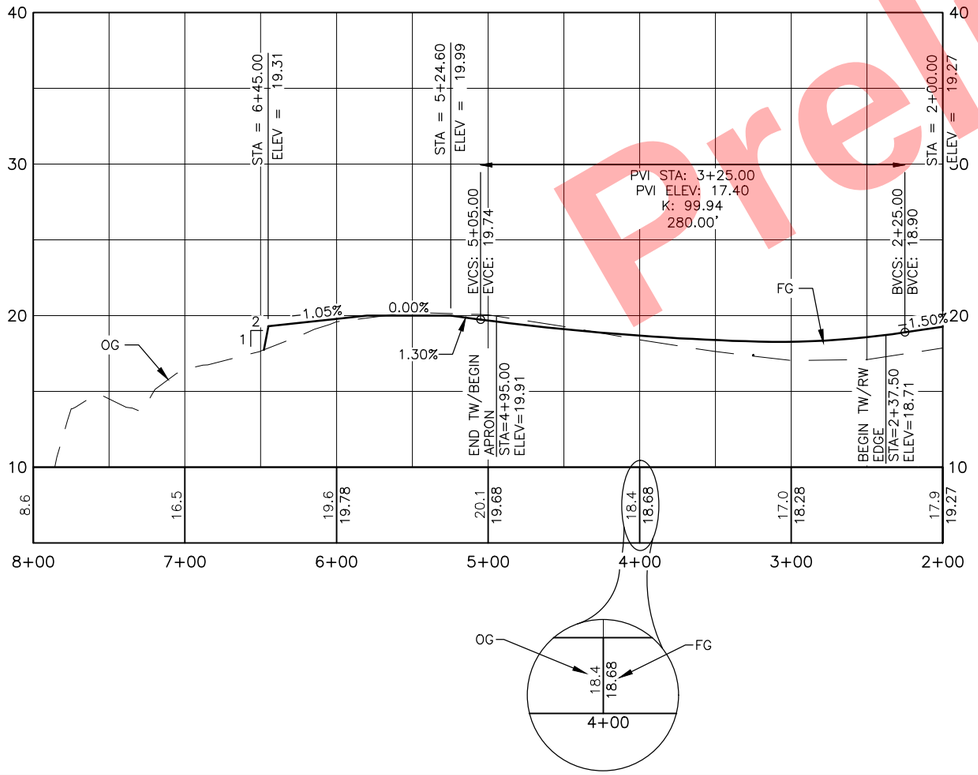
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
RUNWAY PLAN & PROFILE

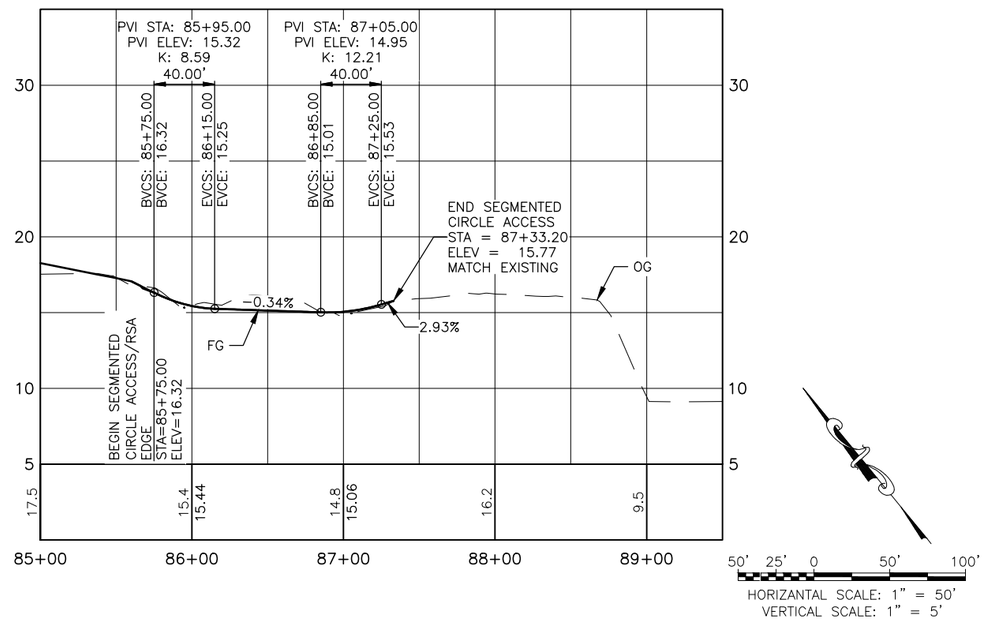
DATE: 01/29/2024
SHEET: 25 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC

Date Revised: 1/29/2024, 1:17 PM
Layout Name: RW P&P 3
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D\Planset\00572-Plan & Profile.dwg







50' 25' 0 50' 100'

HORIZANTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

Designed By:	XXX	
Drawn By:	RJB	
Checked By:	PWC	
Date Revised:	1/29/2024, 1:17 PM	
Layout Name:	TW & SC P&P	
File Path and Name:	W:\Projects\Nightmute Nightmute Imp 00572\Civil\30\Planset\00572-Plan & Profile.dwg	

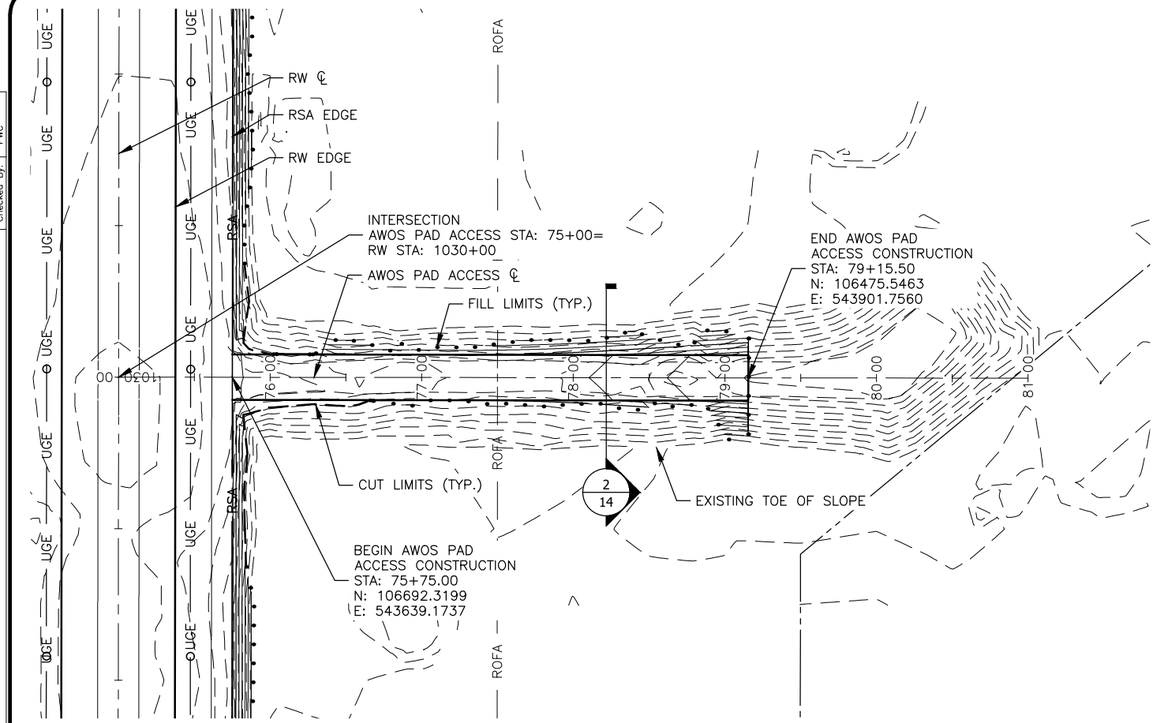
BY	DATE	REVISION

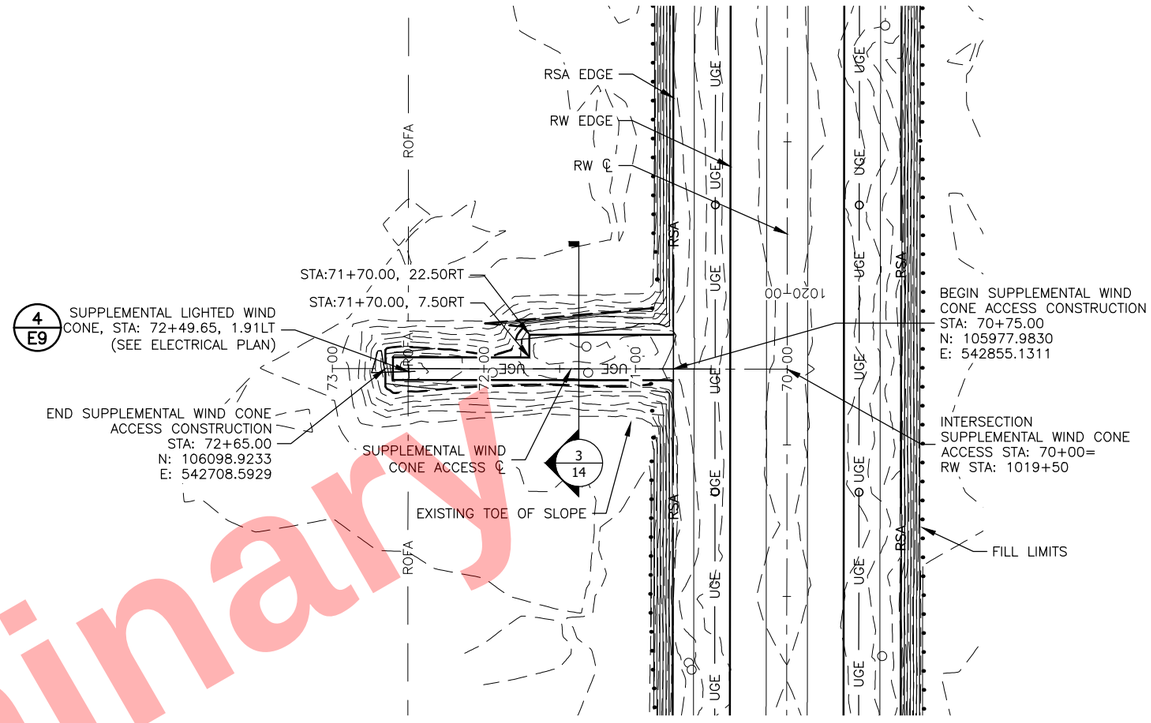
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

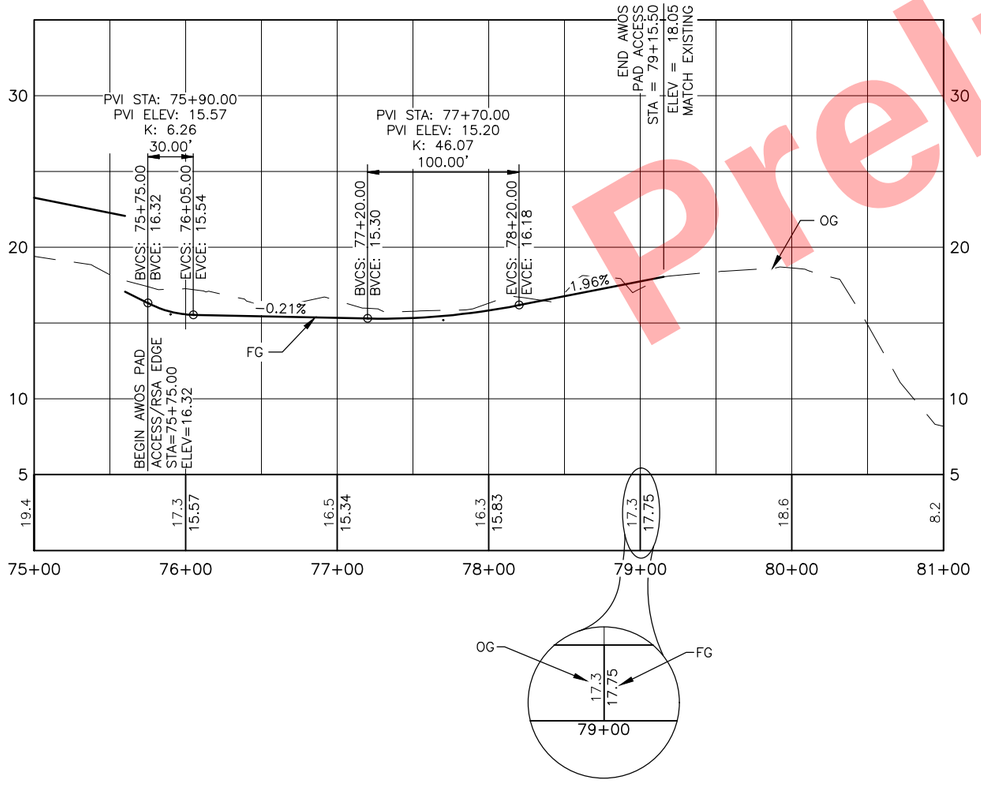
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
TAXIWAY & SEGMENTED CIRCLE PLAN & PROFILE

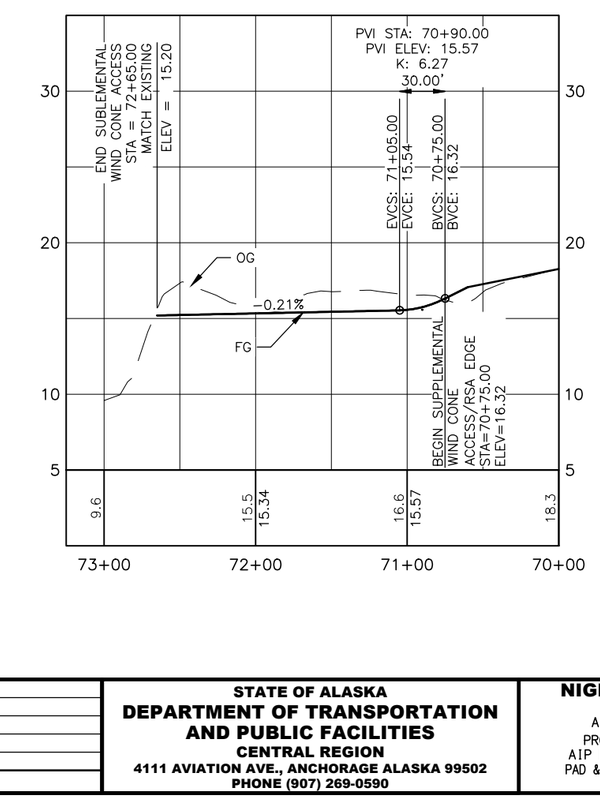
DATE: 01/29/2024

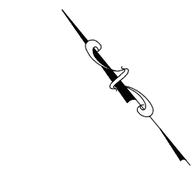
SHEET: 26 OF 36











50' 25' 0 50' 100'

HORIZANTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/29/2024, 1:17 PM
Layout Name:	PAD & WC P&P
File Path and Names:	W:\Projects\Nightmute\Nightmute Imp. 00572\Civ3D\Planset\00572-Plan & Profile.dwg

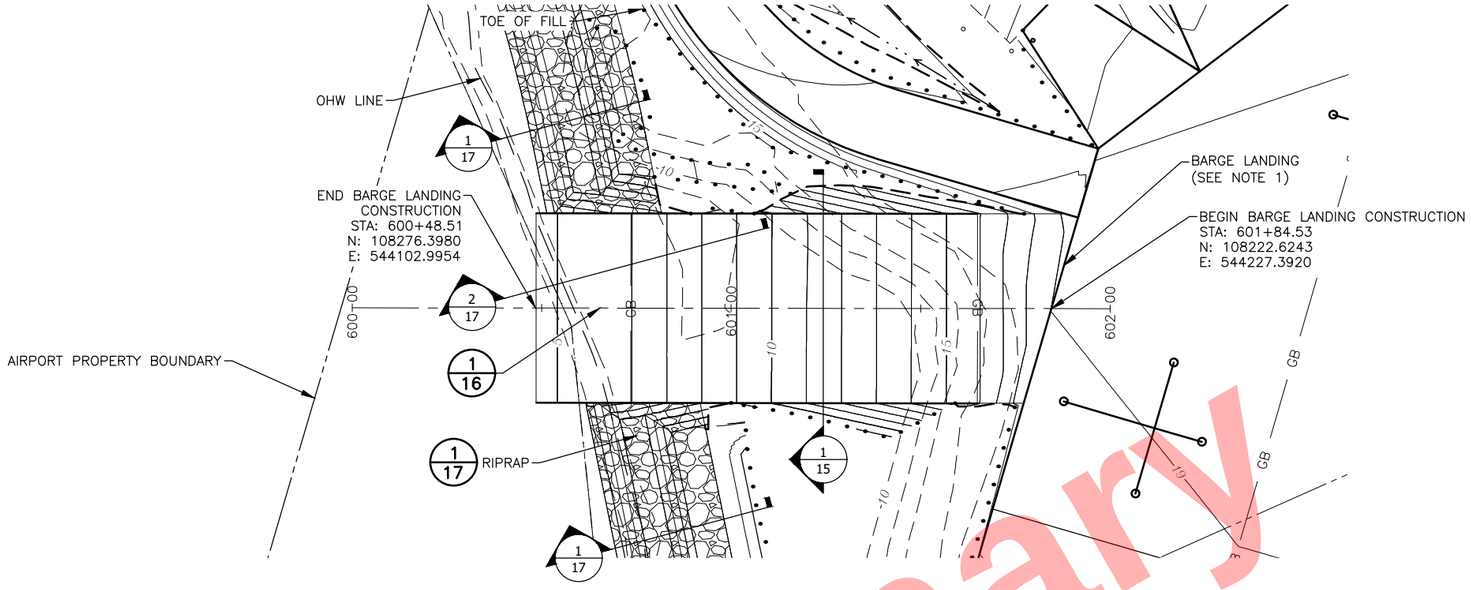
BY	DATE	REVISION

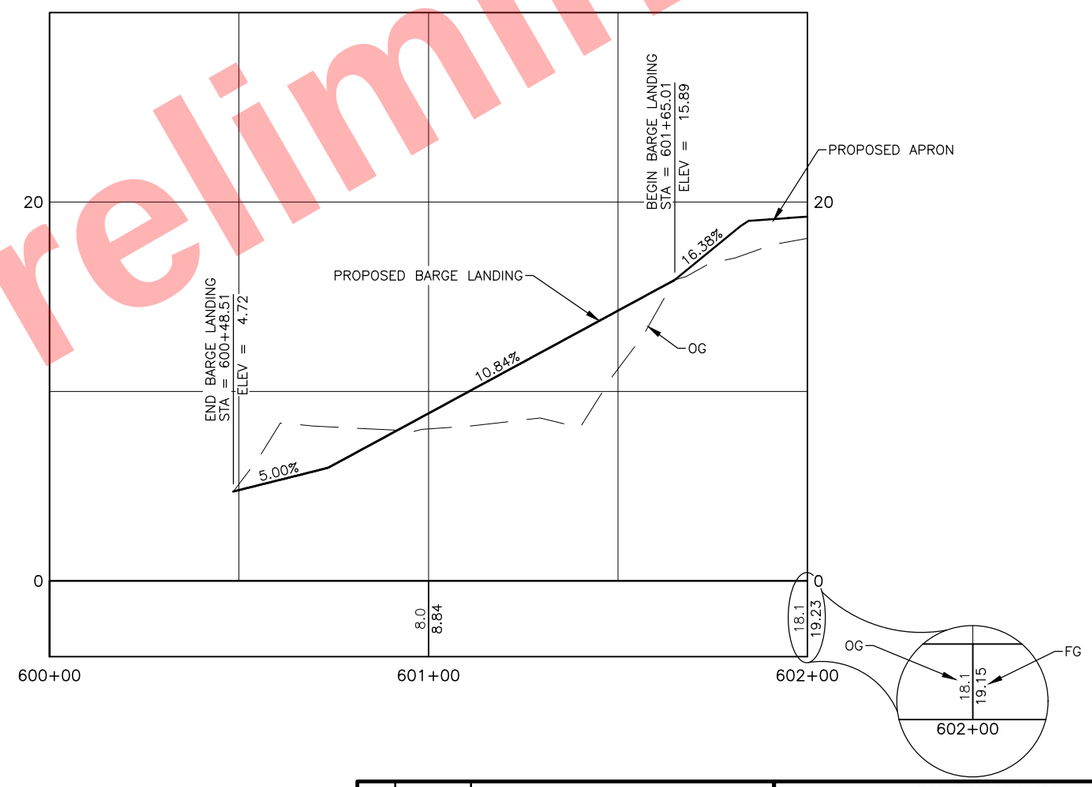
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

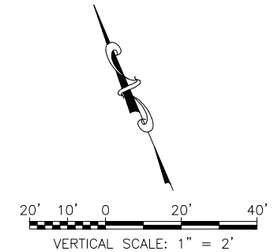
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
PAD & WIND CONE PLAN & PROFILE

DATE: 01/29/2024

SHEET: 27 OF 36







NOTES:

1. PLACE JERSEY BARRIERS AT TOP OF BARGE LANDING ALONG APRON EDGE TO RESTRICT UNAUTHORIZED USE AND PLACE SIGNS STATING "UNAUTHORIZED USE PROHIBITED", AS DIRECTED BY THE ENGINEER.

BY	DATE	REVISION

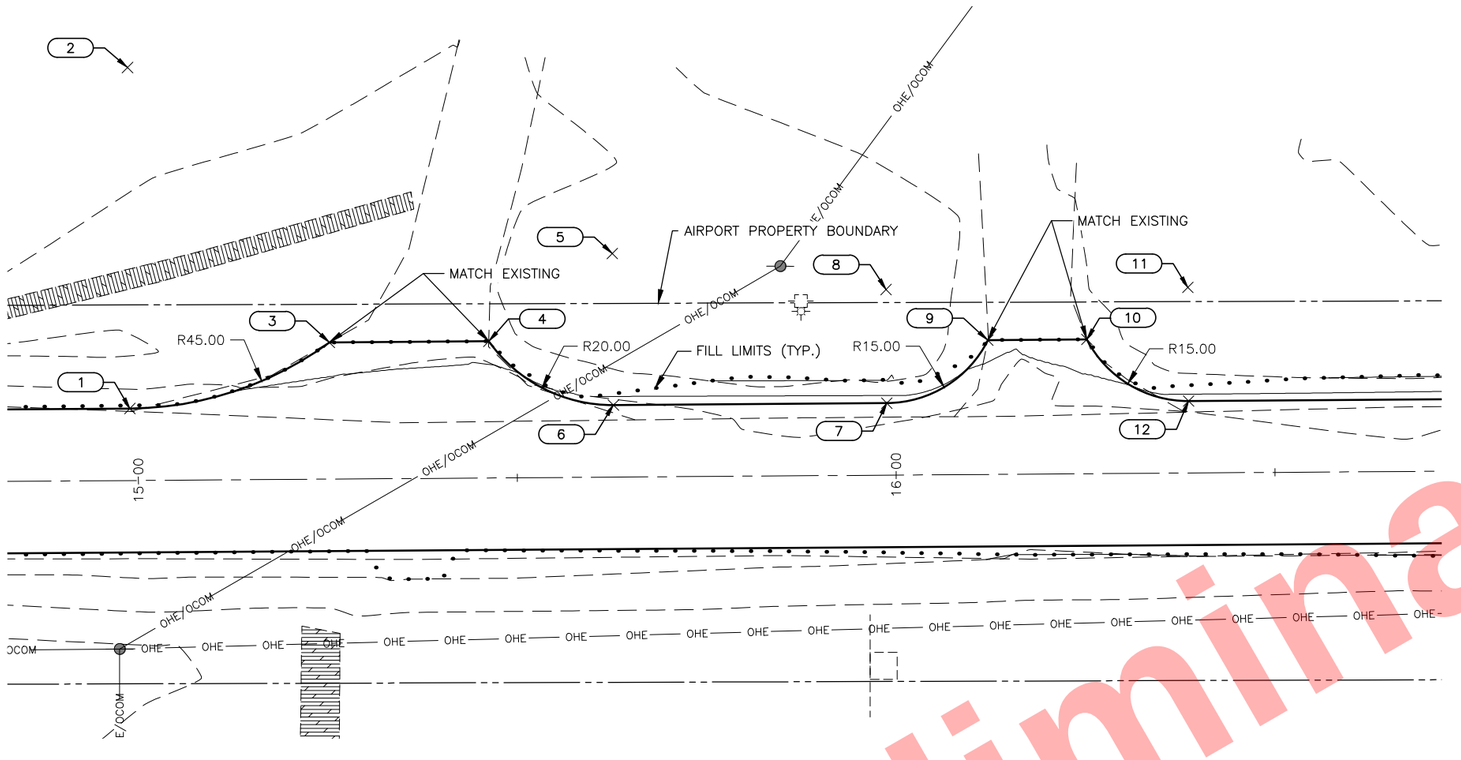
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
BARGE LANDING PLAN & PROFILE

DATE: 01/29/2024
SHEET: 28 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/29/2024, 1:17 PM
File Path and Name: BARGE P&P
W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D\Planset\00572-Typicals.dwg



GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
1	14+98.95	9.50LT	12.68	EDDGE ROAD PC
2	14+98.95	54.50LT	N/A	RADIUS POINT
3	15+25.33	18.04LT	11.34	EDGE ROAD PT
4	15+46.36	18.04LT	11.75	EDGE ROAD PT
5	15+62.75	29.50LT	N/A	RADIUS POINT
6	15+62.75	9.50LT	12.57	EDGE ROAD PC
7	15+98.84	9.50LT	12.50	EDGE ROAD PC
8	15+98.84	24.50LT	N/A	RADIUS POINT
9	16+12.22	17.72LT	11.79	EDGE ROAD PT
10	16+25.29	17.72LT	11.53	EDGE ROAD PT
11	16+38.67	24.50LT	N/A	RADIUS POINT
12	16+38.67	9.50LT	12.45	EDGE ROAD PC

10' 5' 0 10' 20'

BY	DATE	REVISION

STATE OF ALASKA
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CENTRAL REGION
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PHONE (907) 269-0590

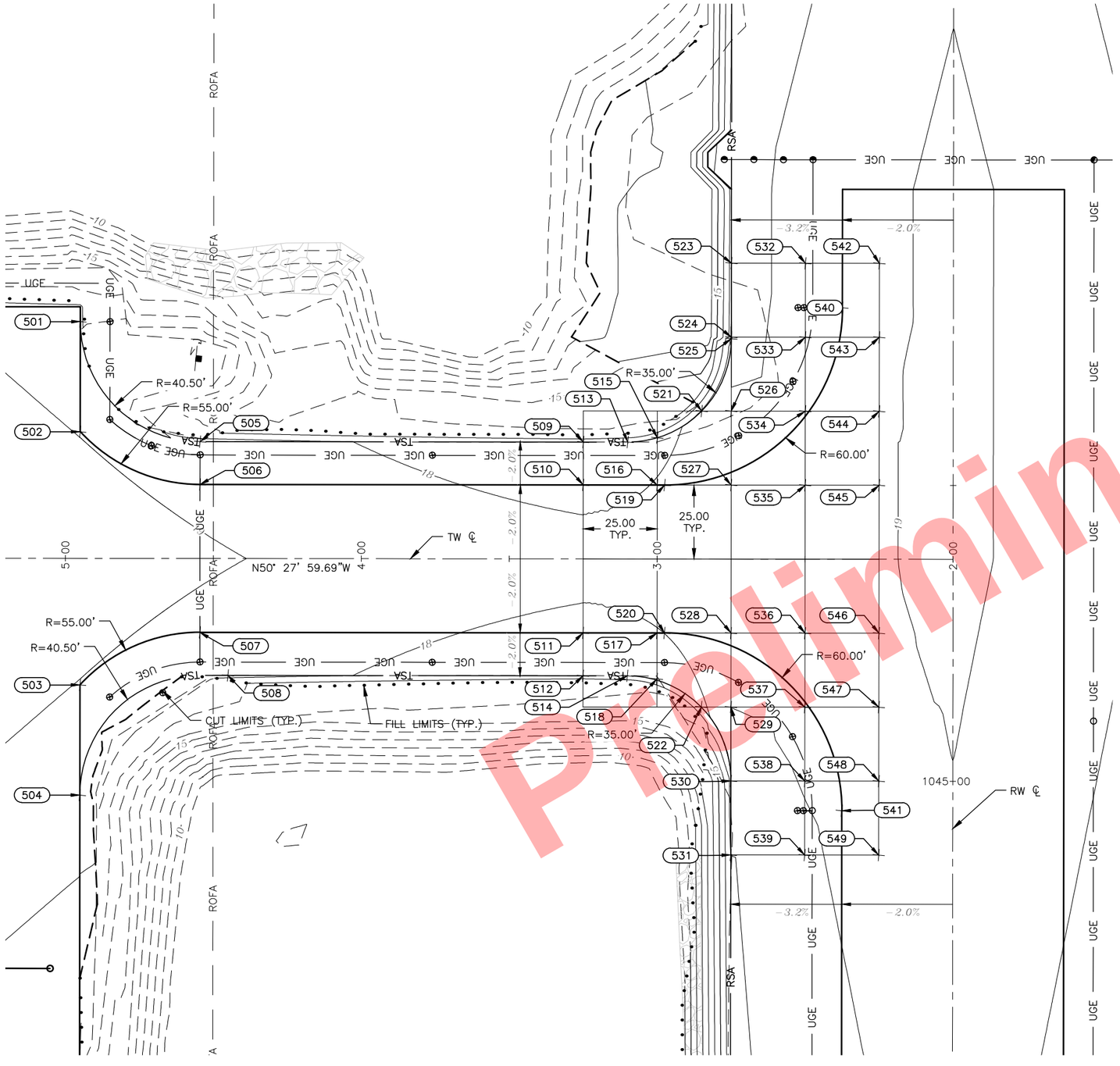
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
DRIVEWAY GRADING

DATE: 01/29/2024

SHEET: 29 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/29/2024, 1:17 PM
File Path and Name: DRIVEWAY GRADING
W:\Projects\Nightmute Imp 00572\Civil30\Planset\00572-Plan & Profile.dwg



GRADING TABLE			
POINT #	STATION	OFFSET	ELEVATION
501	4+95.00	80.00RT	18.41
502	4+95.00	42.79RT	18.97
503	4+95.00	42.79LT	18.97
504	4+95.00	80.00LT	18.41
505	4+54.50	39.50RT	18.51
506	4+54.50	25.00RT	18.75
507	4+54.50	25.00LT	18.75
508	4+45.00	39.50LT	18.41
509	3+25.00	39.50RT	17.51
510	3+25.00	25.00RT	17.80
511	3+25.00	25.00LT	17.80
512	3+25.00	39.50LT	17.51
513	3+10.00	39.50RT	17.72
514	3+10.00	39.50LT	17.67
515	3+00.00	40.96RT	17.87
516	3+00.00	25.00RT	18.03
517	3+00.00	25.00LT	17.98
518	3+00.00	40.54LT	17.79
519	2+97.50	25.00RT	18.06
520	2+97.50	25.00LT	18.00
521	2+85.01	50.00RT	18.12
522	2+85.01	50.00LT	17.96
523	2+75.00	100.00RT	17.32
524	2+75.00	75.00RT	17.66
525	2+75.00	74.50RT	17.67
526	2+75.00	50.00RT	18.16

GRADING TABLE			
POINT #	STATION	OFFSET	ELEVATION
527	2+75.00	25.00RT	18.37
528	2+75.00	25.00LT	18.27
529	2+75.00	50.00LT	18.00
530	2+75.00	75.00LT	17.50
531	2+75.00	100.00LT	17.00
532	2+50.00	100.00RT	18.27
533	2+50.00	75.00RT	18.35
534	2+50.00	50.00RT	18.47
535	2+50.00	25.00RT	18.58
536	2+50.00	25.00LT	18.51
537	2+50.00	50.00LT	18.27
538	2+50.00	75.00LT	18.05
539	2+50.00	100.00LT	17.87
540	2+37.50	85.00RT	18.54
541	2+37.50	85.00LT	18.20
542	2+25.00	100.00RT	18.77
543	2+25.00	75.00RT	18.81
544	2+25.00	50.00RT	18.87
545	2+25.00	25.00RT	18.91
546	2+25.00	25.00LT	18.84
547	2+25.00	50.00LT	18.67
548	2+25.00	75.00LT	18.51
549	2+25.00	100.00LT	18.37

GRADING NOTES:

1. ELEVATIONS SHOWN ARE FINISHED GRADE.
2. THE BASIS OF THE 25' GRADING GRID IS THE INTERSECTION OF THE RUNWAY CENTERLINE WITH THE TAXIWAY CENTERLINE. THE BEARING OF THE GRID IS N50° 27' 59.69"W.

20' 10' 0 20' 40'

Designed By: XXX
Drawn By: RJB
Checked By: PWC

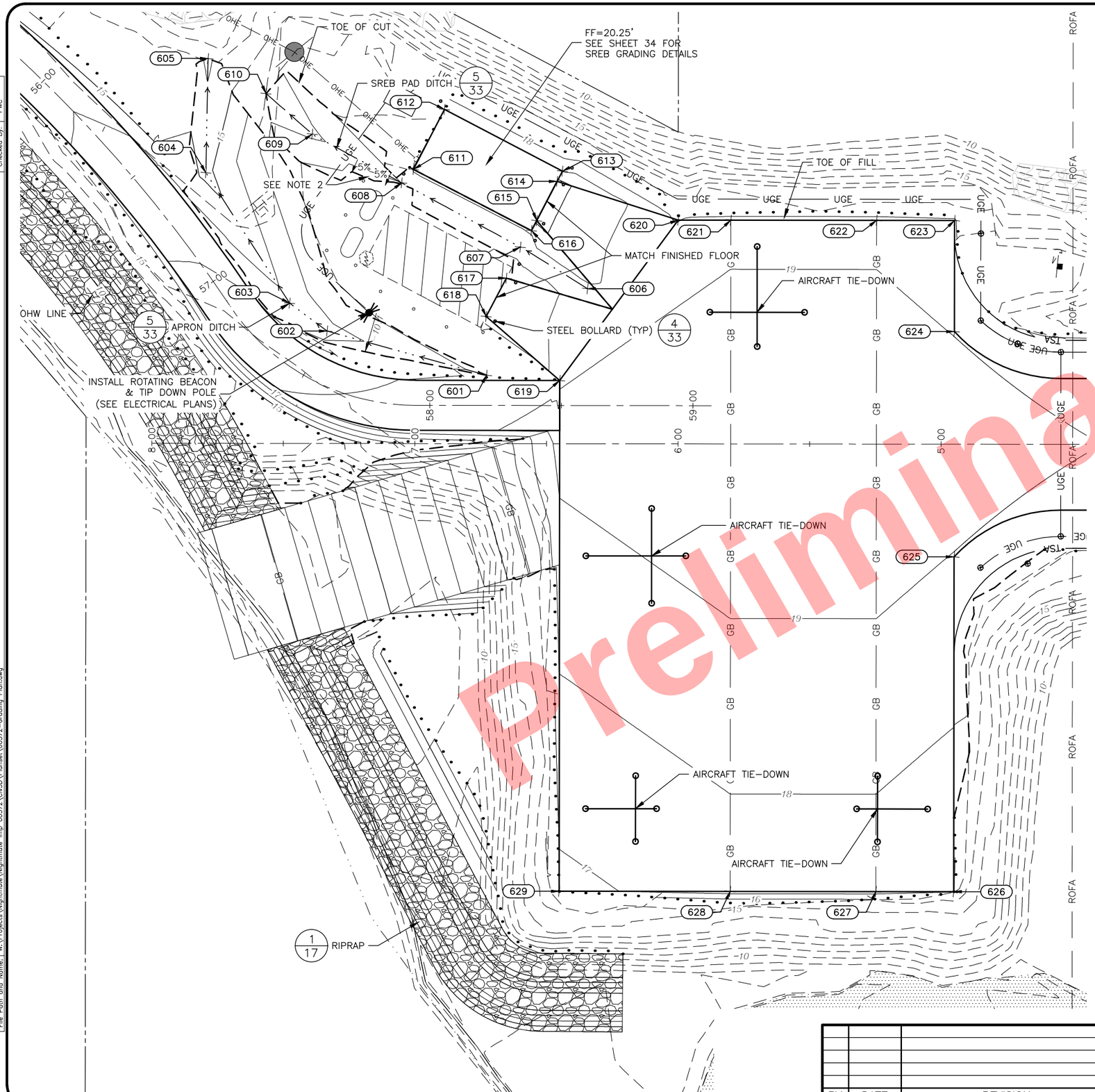
Date Revised:
Layout Name: 1/29/2024, 1:18 PM
File Path and Name: GRADING PLAN 1
W:\Projects\Nightmute\Nightmute_Imp_00572\Civil3D\Planset\00572-Grading Plan.dwg

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
TAXIWAY AND RUNWAY INTERSECTION
GRADING PLAN

DATE: 01/29/2024
SHEET: 30 OF 36



GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
601	6+72.82	26.00RT	18.21	BEGIN DITCH
602	7+33.42	42.70RT	16.64	DITCH PI
603	7+47.69	53.28RT	16.19	DITCH PI
604	7+79.56	102.80RT	14.72	DITCH PI
605	7+78.79	146.15RT	13.82	END DITCH
606	6+34.46	58.92RT	18.80	BEGIN DITCH
607	6+59.98	74.68RT	18.53	DITCH PI
608	7+05.14	99.04RT	18.02	DITCH PI
609	7+39.13	117.50RT	16.82	DITCH PI
610	7+56.75	132.87RT	16.01	END DITCH
611	7+00.65	104.14RT	19.10	GRADE
612	6+88.90	126.97RT	18.95	GRADE
613	6+44.06	103.54RT	18.95	GRADE
614	6+46.08	99.65RT	20.25	GRADE
615	6+53.80	84.76RT	20.25	GRADE
616	6+55.79	80.91RT	19.10	GRADE
617	6+65.31	62.87RT	19.50	GRADE
618	6+72.95	48.30RT	19.50	GRADE
619	6+45.00	24.02RT	18.95	GRADE
620	6+00.00	85.00RT	17.87	GRADE
621	5+80.00	85.00RT	18.72	GRADE
622	5+24.60	85.00RT	18.72	GRADE
623	4+95.00	85.00RT	18.34	GRADE
624	4+95.00	42.79RT	18.97	GRADE
625	4+95.00	42.79LT	18.97	GRADE
626	4+95.00	170.00LT	17.06	GRADE
627	5+24.60	170.00LT	17.44	GRADE
628	5+80.00	170.00LT	17.44	GRADE
629	6+45.00	170.00LT	16.76	GRADE

GRADING NOTES:

1. ELEVATIONS SHOWN ARE FINISHED GRADE.
2. ADJUST DITCH GRADING TO 5% AND AVOID IMPACTING BOLLARDS.

20' 10' 0 20' 40'

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/29/2024, 1:18 PM
Layout Name:	GRADING PLAN 2
File Path and Names:	W:\Projects\Nightmute\Nightmute Imp. 00572\Cx3D\Planset\00572-Grading Plan.dwg

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STATE OF ALASKA
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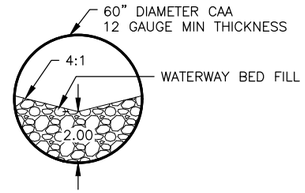
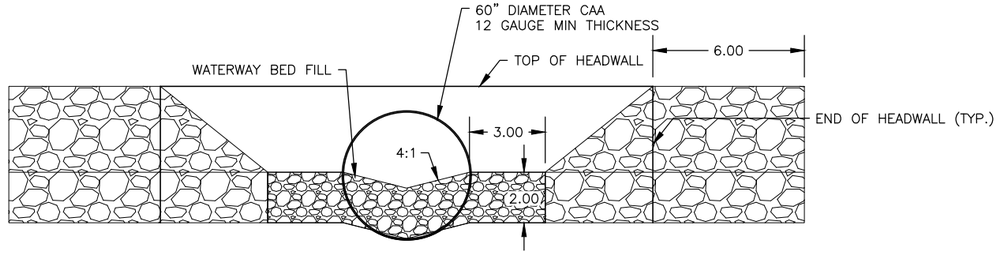
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
APRON AND SREB SITING AND GRADING PLAN

DATE: 01/29/2024

SHEET: 31 OF 36



1/32 CULVERT SECTION
NOT TO SCALE



2/32 CULVERT INLET END SECTION
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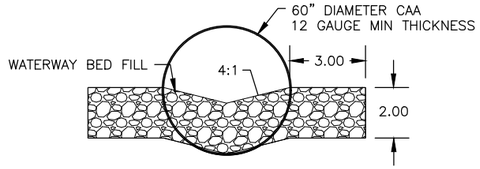

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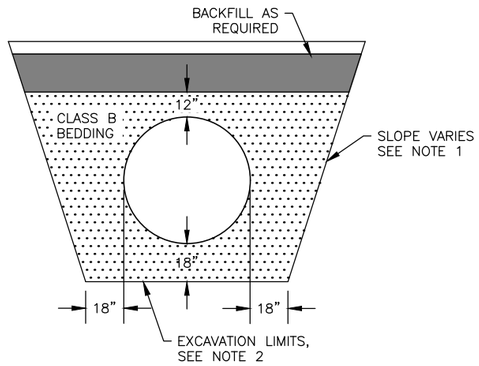
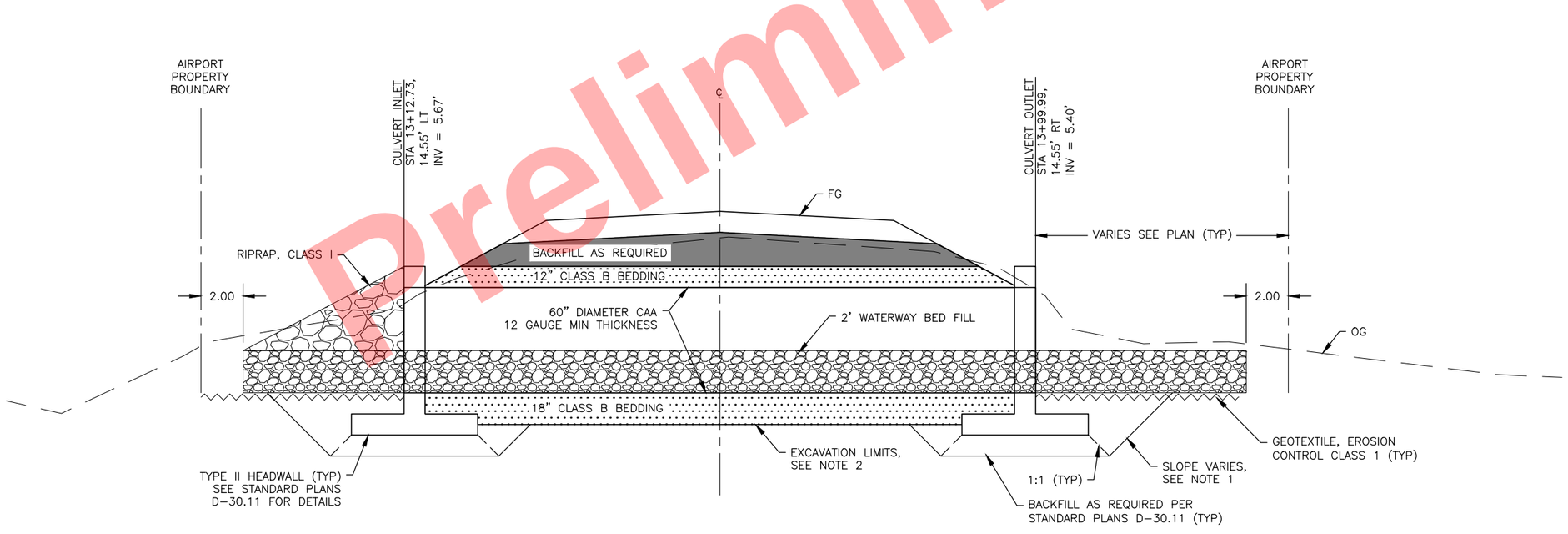


4/32 CULVERT TRENCH DETAIL
NOT TO SCALE



5/32 CULVERT PROFILE
NOT TO SCALE

NOTES:

1. EXCAVATION SLOPES WILL VARY WITH SOIL STRENGTH AND CHARACTERISTICS. SLOPES SHALL CONFORM TO OSHA SAFETY STANDARDS.
2. AFTER EXCAVATION TO PLAN DEPTH, COMPACT THE BOTTOM OF THE EXCAVATION AS REQUIRED BY ITEM P-152-3.6.d. IF UNSTABLE MATERIALS ARE FOUND, NOTIFY THE ENGINEER IMEDIATELY. BEFORE USING BORROW, UTILIZE USEABLE EXCAVATION REQUIRED PER GCP 40-04.

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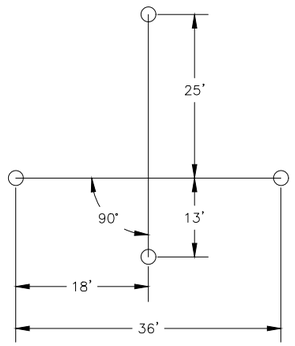
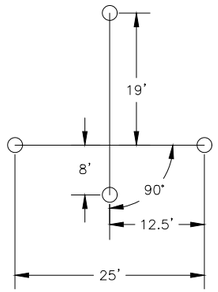
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CULVERT PROFILE AND DETAILS

DATE: 01/29/2024
SHEET: 32 OF 36

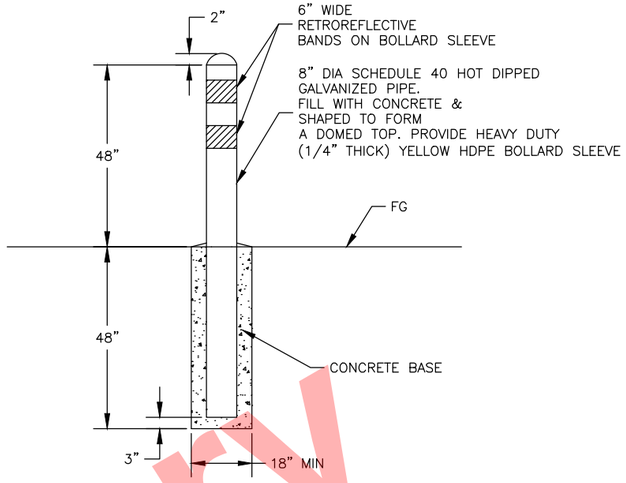
Designed By: XXX
Drawn By: RJB
Checked By: PWC
Date Revised:
Layout Name: CULVERT PROFILE AND DETAILS
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D Planset\00572-Typicals.dwg
1/29/2024, 1:19 PM



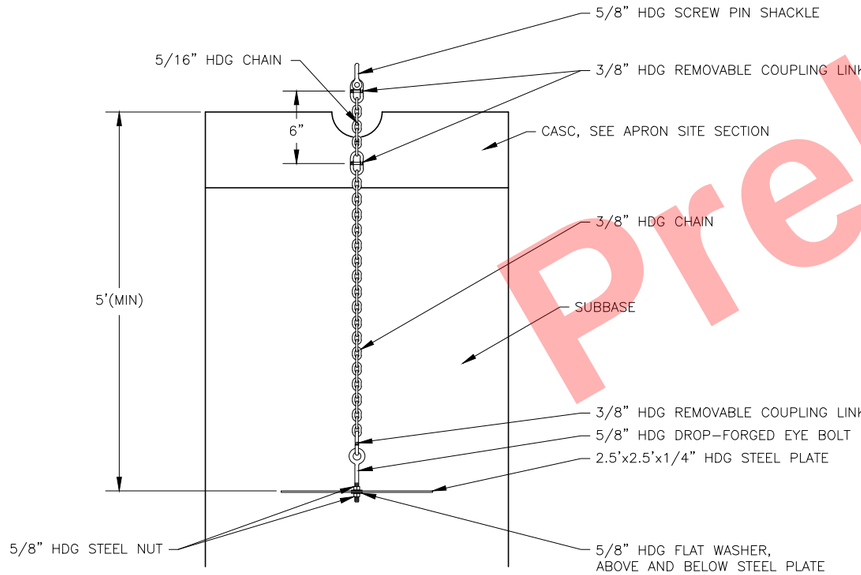
1/33 AIRCRAFT TIE-DOWN LAYOUT
SCALE: NTS



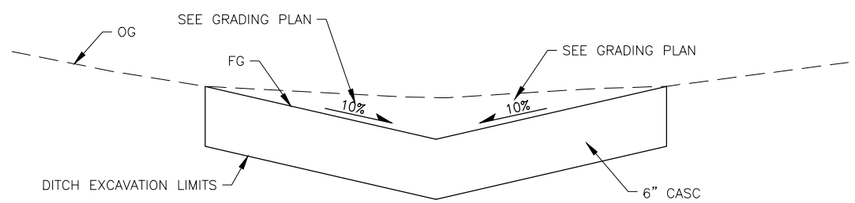
2/33 AIRCRAFT TIE-DOWN LAYOUT
SCALE: NTS



4/33 EXTERIOR BOLLARD DETAIL
NOT TO SCALE



3/33 AIRCRAFT ANCHOR TIE-DOWNS
SCALE: NTS



NOTES:

1. DITCH SIDE SLOPES ARE 10% UNLESS OTHERWISE SHOWN ON THE PLANS. SEE SHEET 31.

5/33 APRON & SREB PAD DITCH DETAIL
NOT TO SCALE

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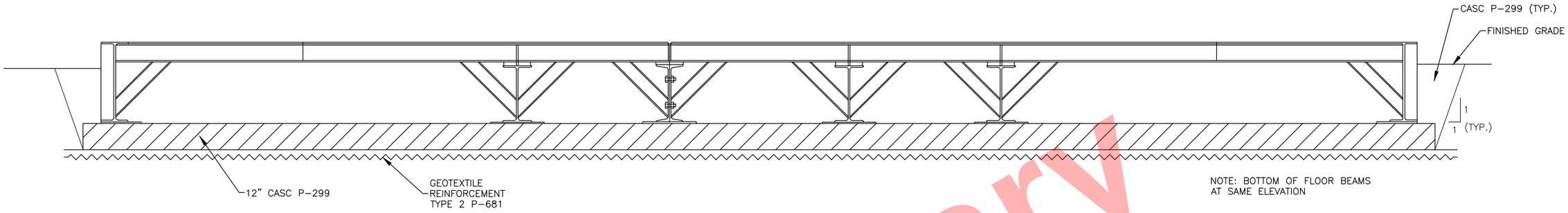
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
APRON SITING DETAILS

DATE: 01/29/2024
SHEET: 33 OF 36

Designed By: XXX
Drawn By: RJB
Checked By: PWC
Date Revised: 1/29/2024, 1:19 PM
Layout Name: DETAILS (2)
File Path and Names: W:\Projects\Nightmute\Nightmute imp 00572\Civil3D\Planset\00572-Details.dwg



1/34 TYPICAL SKID SECTION
NTS

Designed By:	XXX	
Drawn By:	RJB	
Checked By:	PWC	
Date Revised:	1/29/2024, 1:19 PM	
Layout Name:	DETAILS	
File Path and Name:	W:\Projects\Nightmute Imp 00572\Civil30\Planset\00572-Details.dwg	

BY	DATE	REVISION

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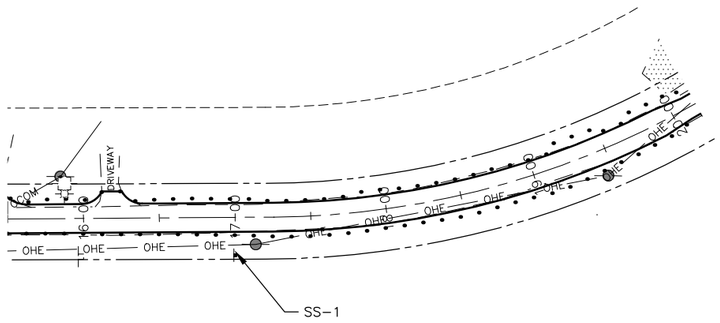
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
SREB GRADING DETAILS

DATE: 01/29/2024

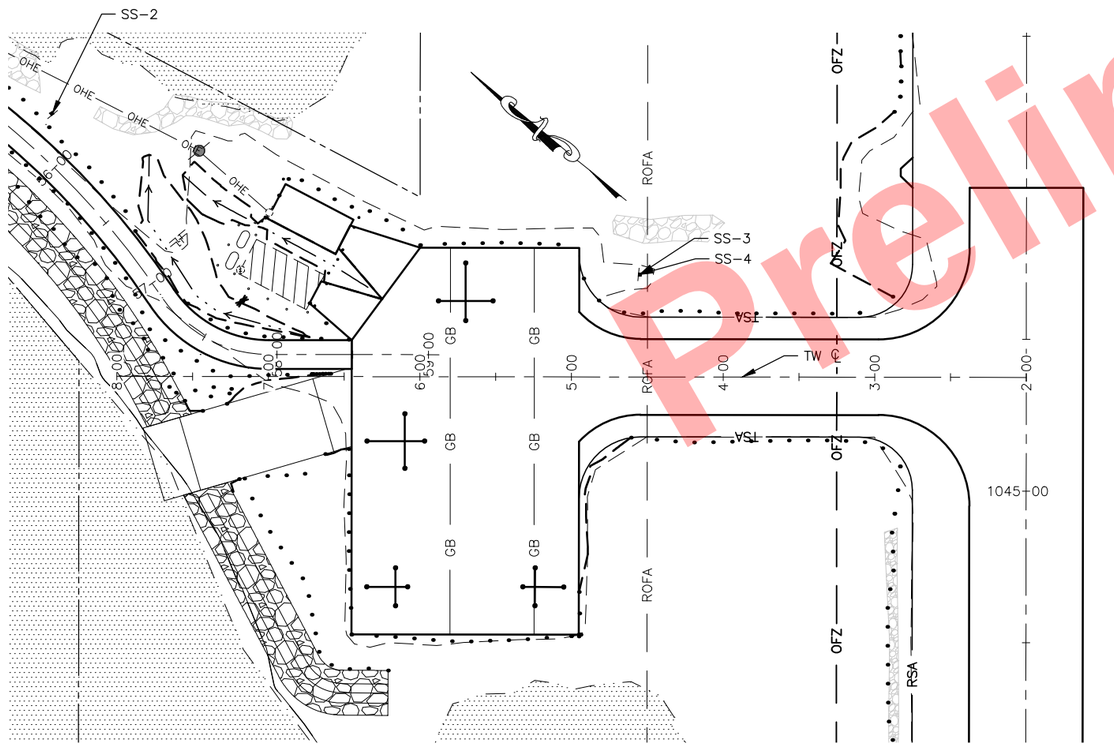


AIRPORT SIGN SUMMARY

POST NUMBER	STATION & OFFSET	TYPE	LEGEND	SIZE (IN)	COLOR		AREA (SF)	SIGN FACES	POSTS: NO. SIZE, TYPE	FRAMED		REMARKS
					LEGEND	BACKGROUND				YES	NO	
SS-1	ROAD ℄ STA 17+00.00 25.00RT	R-2	SPEED LIMIT 20 MPH	24X30	BLACK	WHITE	5.00	W	1-2.5" STEEL SQUARE TUBE		X	INSTALL SIGN HEIGHT PER ALASKA STANDARD PLAN S-05.02. INSTALL ON SLEEVE TYPE SOIL EMBEDMENT SEE ALASKA STANDARD PLAN S-30.05
SS-2	ROAD ℄ STA 55+75.00 25.00LT	R-2	SPEED LIMIT 20 MPH	24X30	BLACK	WHITE	5.00	S	1-2.5" STEEL SQUARE TUBE		X	INSTALL SIGN HEIGHT PER ALASKA STANDARD PLAN S-05.02. INSTALL ON SLEEVE TYPE SOIL EMBEDMENT SEE ALASKA STANDARD PLAN S-30.05
SS-3	TW ℄ STA 4+55.00 67.50RT	SPECIAL	SELECTIVE EXCLUSION	36X48	BLACK/RED	WHITE	12.00	NW	1-3.5" STEEL SQUARE TUBE		X	INSTALL SIGN HEIGHT PER ALASKA STANDARD PLAN S-05.02. INSTALL ON FRANGIBLE COUPLING SYSTEM WITH CONCRETE SIGN POST FOUNDATION SEE ALASKA STANDARD PLAN S-31.02 (SEE NOTE 1) SIGN SS-3 TO BE MOUNTED ON THE SAME POST AS SIGN SS-4.
SS-4	TW ℄ STA 4+55.00 67.50RT	SPECIAL	AUTHORIZED PERSONNEL ONLY	42X30	WHITE	RED	8.75	NW	1-3.5" STEEL SQUARE TUBE		X	INSTALL SIGN HEIGHT PER ALASKA STANDARD PLAN S-05.02. INSTALL ON FRANGIBLE COUPLING SYSTEM WITH CONCRETE SIGN POST FOUNDATION SEE ALASKA STANDARD PLAN S-31.02 (SEE NOTE 1) SIGN SS-4 TO BE MOUNTED ON THE SAME POST AS SIGN SS-3.

NOTES:

1. USE CONCRETE CONFORMING TO ITEM P-610 OF THE SPECIFICATIONS.



50' 25' 0 50' 100'

BY	DATE	REVISION

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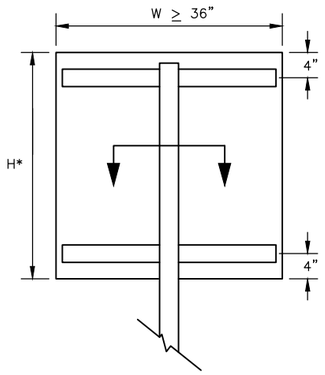
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
SIGN PLAN

DATE: 01/29/2024
SHEET: 35 OF 36

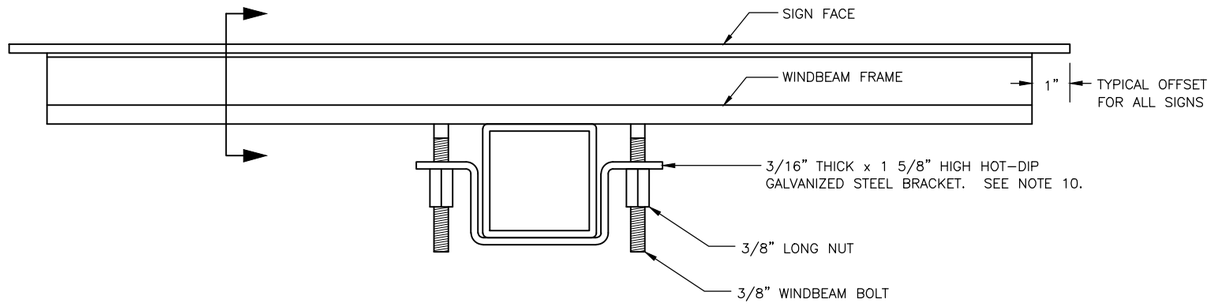
Designed By: XXX
Drawn By: RJB
Checked By: PWC
Date Revised:
Layout Name: 1/29/2024, 1:19 PM
File Path and Names: SIGN_PLAN
W:\Projects\Nightmute\Nightmute_imp_00572\Civ3D\Planset\00572-Sign_Plan.dwg



RECTANGLES AND TRAPEZOIDS

* WHEN H > 42 INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.

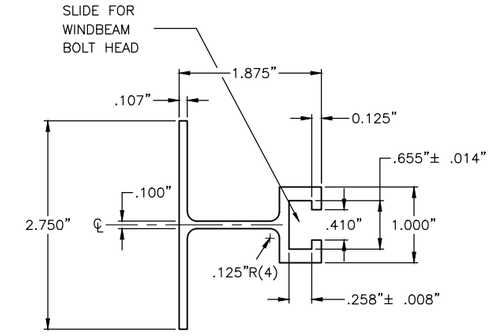
1/36 WINDBEAM LOCATIONS
ELEVATION VIEW



2/36 SECTION A – A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

NOTES:

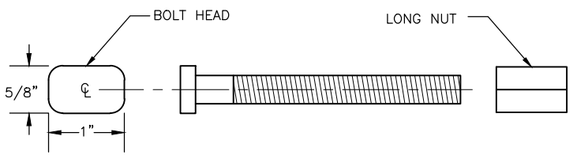
1. ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
2. INSTALL WINDBEAM ON SIGNS 36 INCHES WIDE AND WIDER.
3. THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
4. USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061–T6.
5. EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
6. ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
7. WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
   A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
   B. THE APPLICATION OF THE ADHESIVE TAPE.
8. WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
9. USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061–T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061–T43 FOR HOT DRIVEN RIVETS.
10. THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
11. POST LENGTHS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR USING THE CRITERIA FOR RURAL ROADS, UNLESS DETERMINED OTHERWISE BY THE ENGINEER.



3/36 SECTION B – B WINDBEAM CROSS SECTION

4/36 SELECTIVE EXCLUSIONS
SS-3

5/36 AUTHORIZED PERSONNEL SIGN DETAILS
SS-4



6/36 3/8" WINDBEAM BOLT AND LONG NUT

Designed By:	XXX
Drawn By:	RJB
Checked By:	PWC
Date Revised:	1/29/2024, 1:19 PM
Layout Name:	SIGN DETAILS
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp. 00572\Civ3D\Planset\00572-Details.dwg

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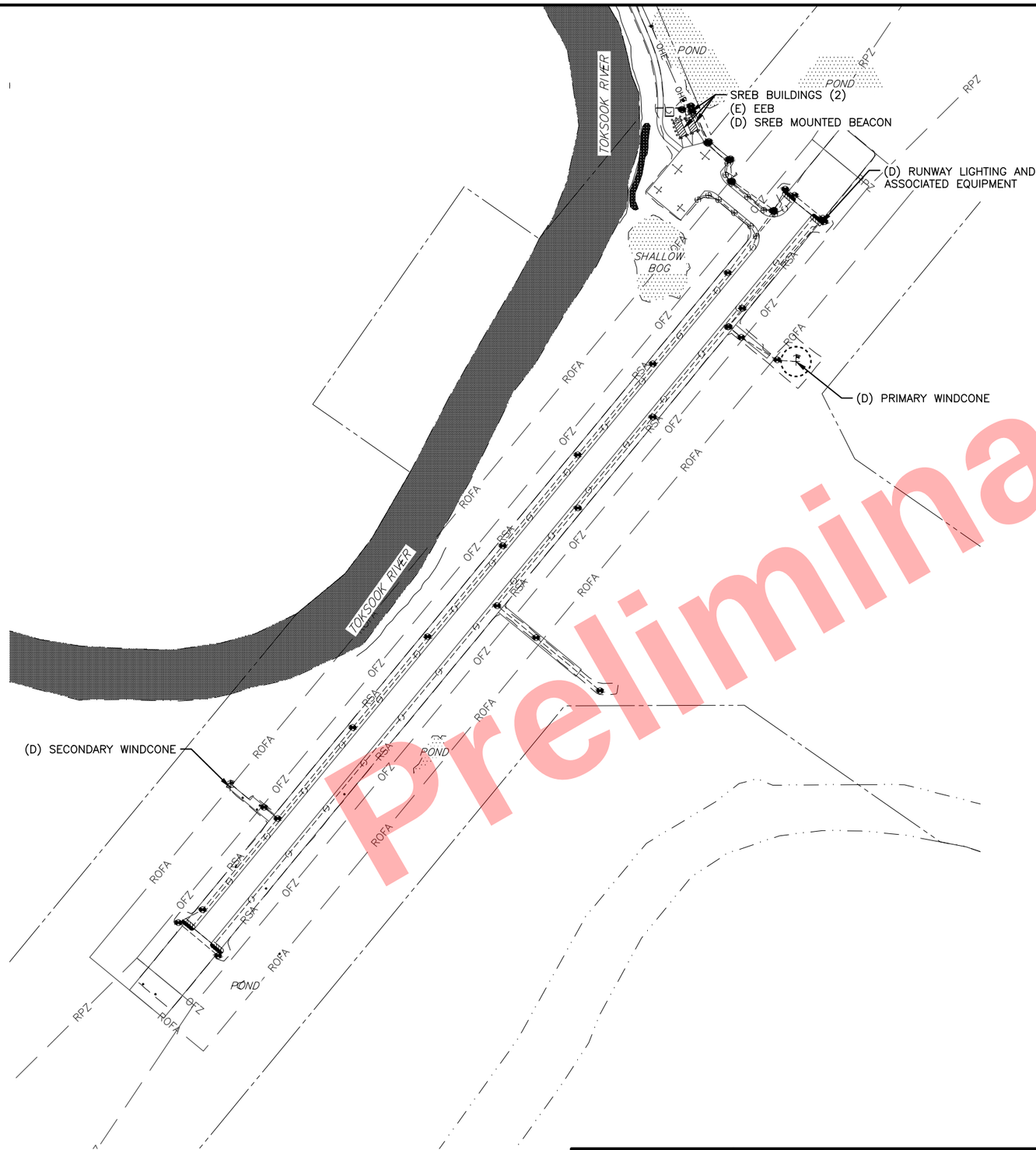
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
SIGN DETAILS

DATE: 01/29/2024
SHEET: 36 OF 36



LEGEND AND ABBREVIATIONS

	L-807 WIND CONE, LIGHTED
	MEDIUM INTENSITY L-861 R/W EDGE LIGHT, WHITE
	MEDIUM INTENSITY L-861SE THRESHOLD LIGHT, 180° GREEN, 180° RED
	MEDIUM INTENSITY L-861T TAXIWAY LIGHT, BLUE
	HANDHOLE
	GROUND ROD, 3/4"X10'
1-CONDUCTOR / 2-CONDUCTORS	CONDUIT OR DUCT BELOW GRADE. HDPE, MIN 2" UON (NUMBER OF CONDUCTORS SHOWN BY HASH MARKS)
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM
BRL	BUILDING RESTRICTION LINE
(D)	DEMOLISH
DIA.	DIAMETER
(E)	EXISTING TO REMAIN
EEB	ELECTRICAL EQUIPMENT BUILDING
FAA	FEDERAL AVIATION ADMINISTRATION
OFZ	OBSTACLE FREE ZONE
ROFA	RUNWAY OBJECT FREE AREA
RPZ	RUNWAY PROTECTION ZONES
RSA	RUNWAY SAFETY AREA
R/W	RUNWAY
SREB	SNOW REMOVAL EQUIPMENT BUILDING
TSA	TAXIWAY SAFETY AREA
TYP.	TYPICAL
T/W	TAXIWAY
UON	UNLESS OTHERWISE NOTED

GENERAL NOTES

1. CONTRACTOR SHALL OFFER DEMOLISHED EQUIPMENT TO DOT FOR SALVAGE. ITEMS NOT SALVAGED BY DOT ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF. EQUIPMENT ELIGIBLE FOR SALVAGE INCLUDES: LIGHTS AND SUPPORT COLUMNS, LIGHT BASES, AND ISOLATING TRANSFORMERS AND PLATFORMS.

200' 100' 0 200' 400'

Designed By:	JCC
Drawn By:	JCC
Checked By:	DLH
Date Revised:	1/10/2024, 2:18 PM
Layout Name:	E1
File Path and Names:	P:\042301\E\Drawings\00572-IGT-LTG.dwg

PLANS DEVELOPED BY:
DESIGN ALASKA, INC.
601 COLLEGE RD
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(907) 452-1241
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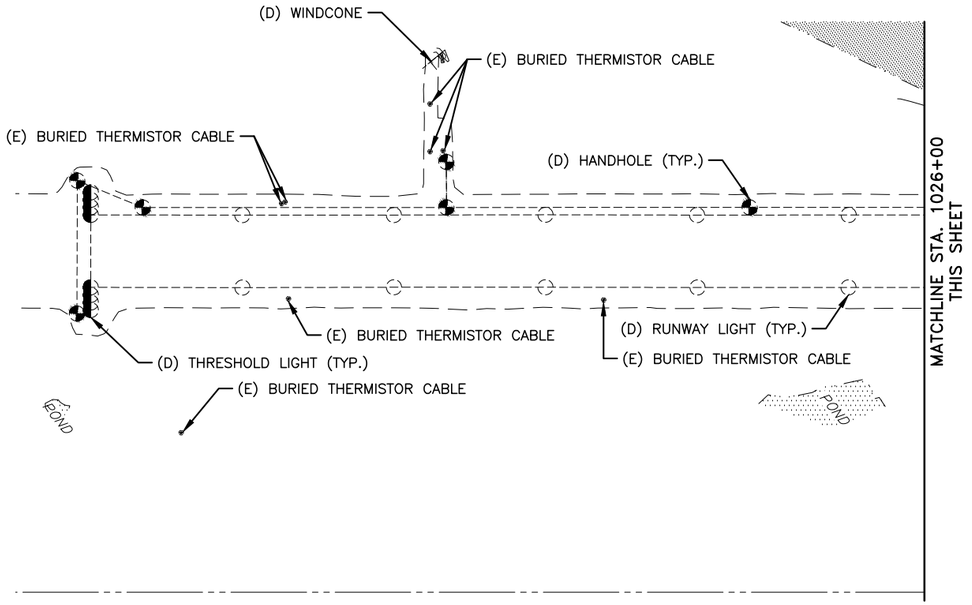
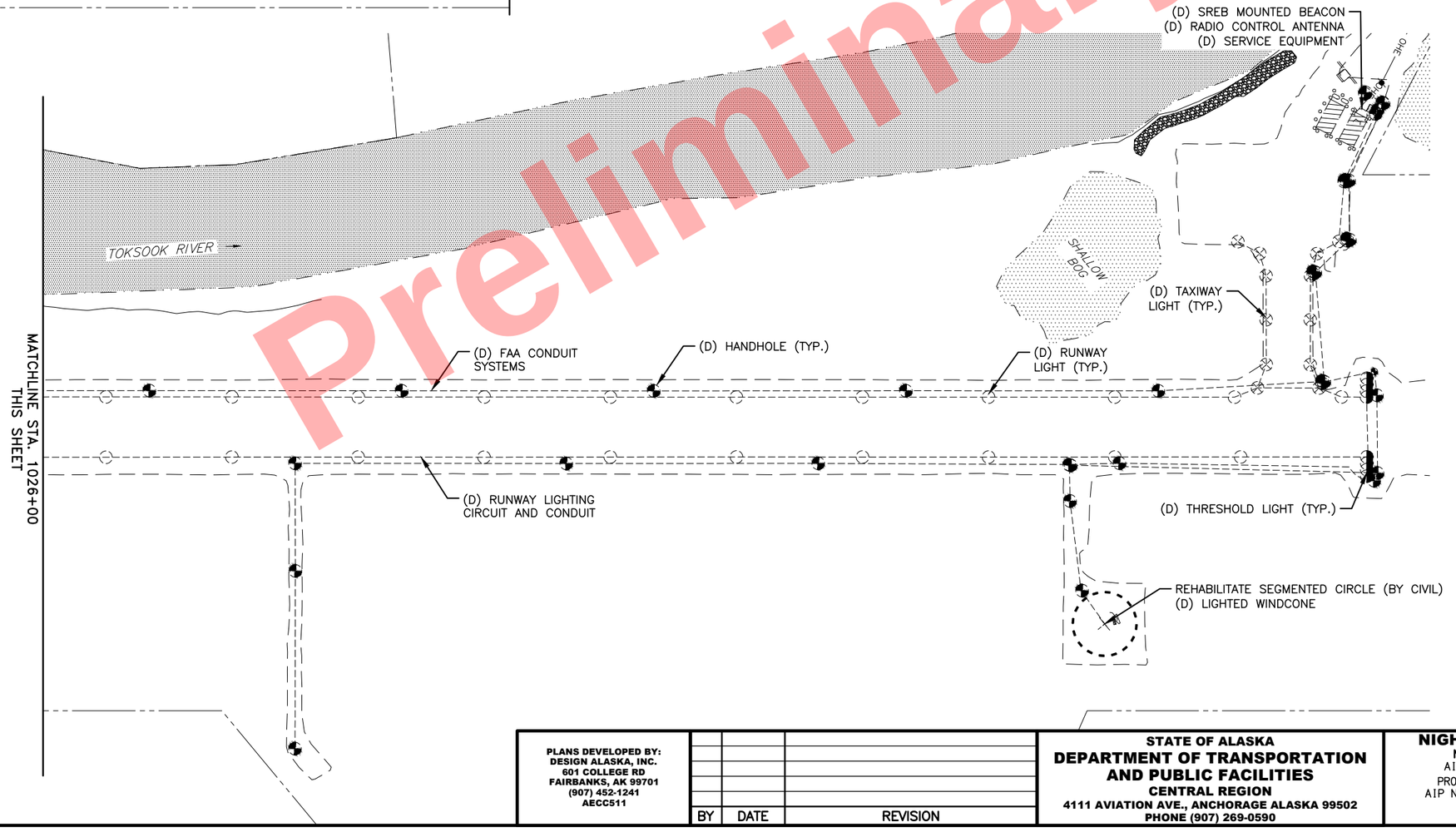
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
SITE PLAN AND LEGEND

DATE: 01/08/2024
SHEET: E1 OF E14



DEMOLITION NOTES

1. CONTRACTOR SHALL OFFER DEMOLISHED EQUIPMENT TO DOT FOR SALVAGE. ITEMS NOT TURNED OVER TO THE DOT ARE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF. EQUIPMENT ELIGIBLE FOR SALVAGE INCLUDES: LIGHTS AND SUPPORT COLUMNS, LIGHT BASES, AND ISOLATING TRANSFORMERS AND PLATFORMS.
2. ELECTRICAL UTILITY SERVICES FOR SREBs AND EEB ARE EXISTING TO REMAIN. COORDINATE WITH THE ALASKA VILLAGE ELECTRIC COOPERATIVE (AVEC) FOR TEMPORARY DISCONNECT OF SERVICES DURING CONSTRUCTION. AVEC TO DISCONNECT OVERHEAD CONDUCTORS FROM WEATHER HEAD AND REMOVE METERS. CONTRACTOR TO DEMOLISH EXISTING 6 METER PACK AND ASSOCIATED SERVICE EQUIPMENT. REFER TO DETAIL 2/E11.
3. LIGHTING CIRCUIT IN COMMON TRENCH WITH UP TO FOUR SPARE CONDUITS FOR FUTURE FAA EQUIPMENT. DEMOLISH ALL SPARE CONDUITS, ASSOCIATED JUNCTION BOXES, AND HAND HOLES.



Designed By:	JCC
Drawn By:	JCC
Checked By:	DLH
Date Revised:	1/10/2024, 2:19 PM
Layout Name:	E2
File Path and Name:	P:\042301\E\Drawings\00572-IGT-LTG.dwg

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NIGHTMUTE AIRPORT
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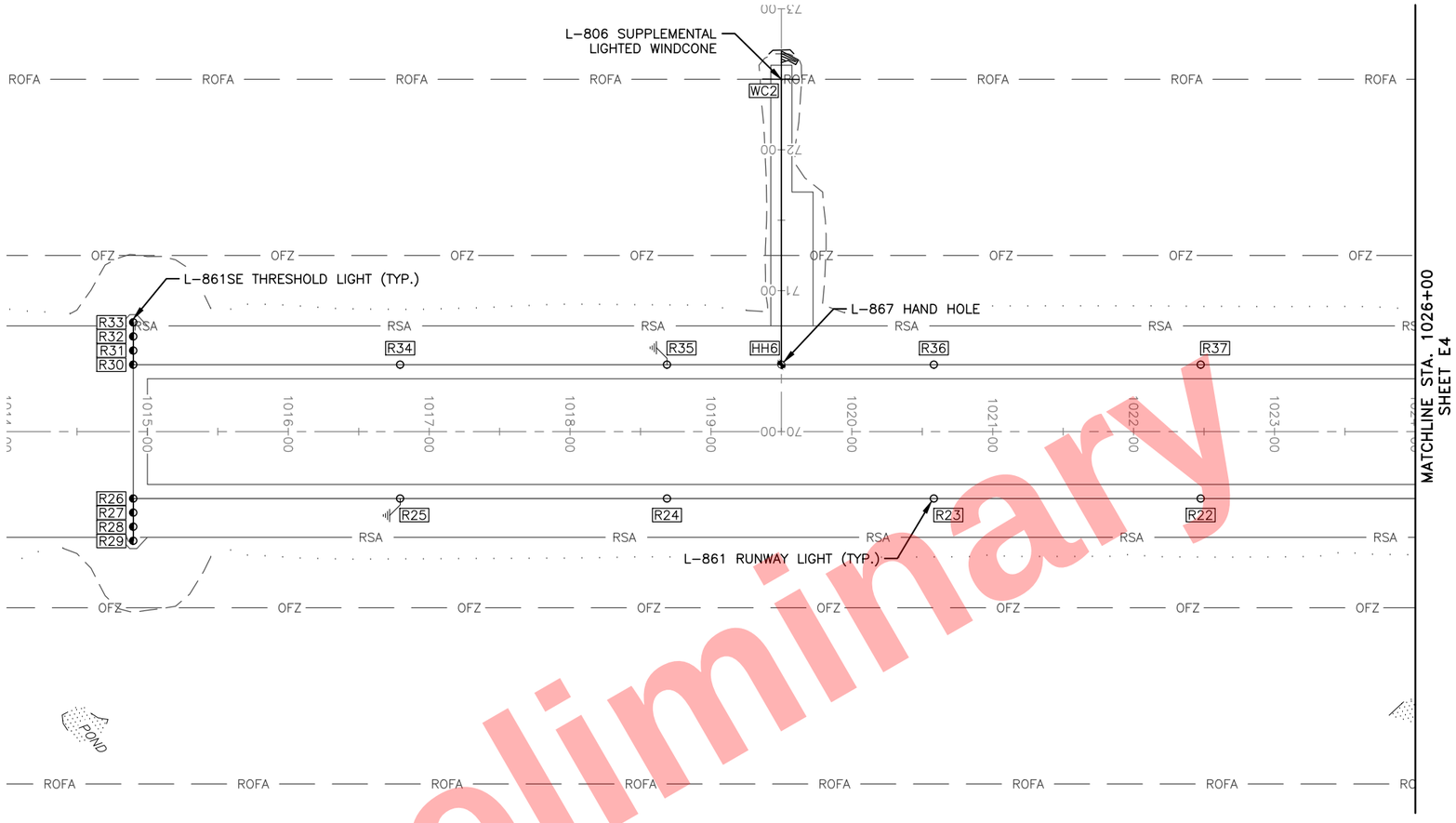
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
DEMOLITION PLAN

DATE: 01/08/2024
SHEET: E2 OF E14



RENOVATION NOTES

1. CONTRACTOR TO UTILIZE RIGID CONDUIT FOR ALL RUNWAY, TAXIWAY, AND APRON CROSSINGS.

50' 25' 0 50' 100'

Designed By:	JCC
Drawn By:	JCC
Checked By:	DLH
Date Revised:	1/10/2024, 2:19 PM
Layout Name:	E3
File Path and Name:	P:\042301\E\Drawings\00572-IGT-LTG.dwg

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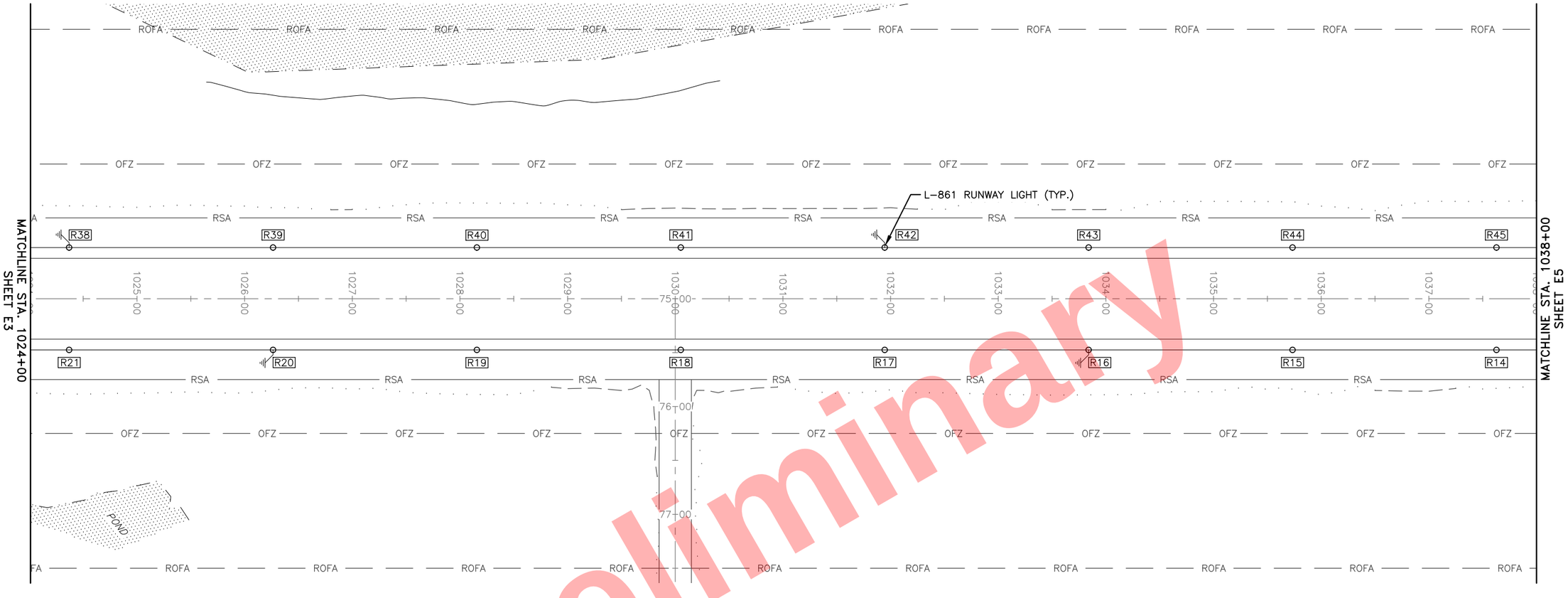
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
LIGHTING PLAN

DATE: 01/08/2024
SHEET: E3 OF E14



RENOVATION NOTES

1. CONTRACTOR TO UTILIZE RIGID CONDUIT FOR ALL RUNWAY, TAXIWAY, AND APRON CROSSINGS.

50' 25' 0 50' 100'

Designed By:	JCC
Drawn By:	JCC
Checked By:	DLH
Date Revised:	1/10/2024, 2:19 PM
Layout Name:	E4
File Path and Name:	P:\042301\E\Drawings\00572-IGT-LTG.dwg

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BY	DATE	REVISION

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CENTRAL REGION
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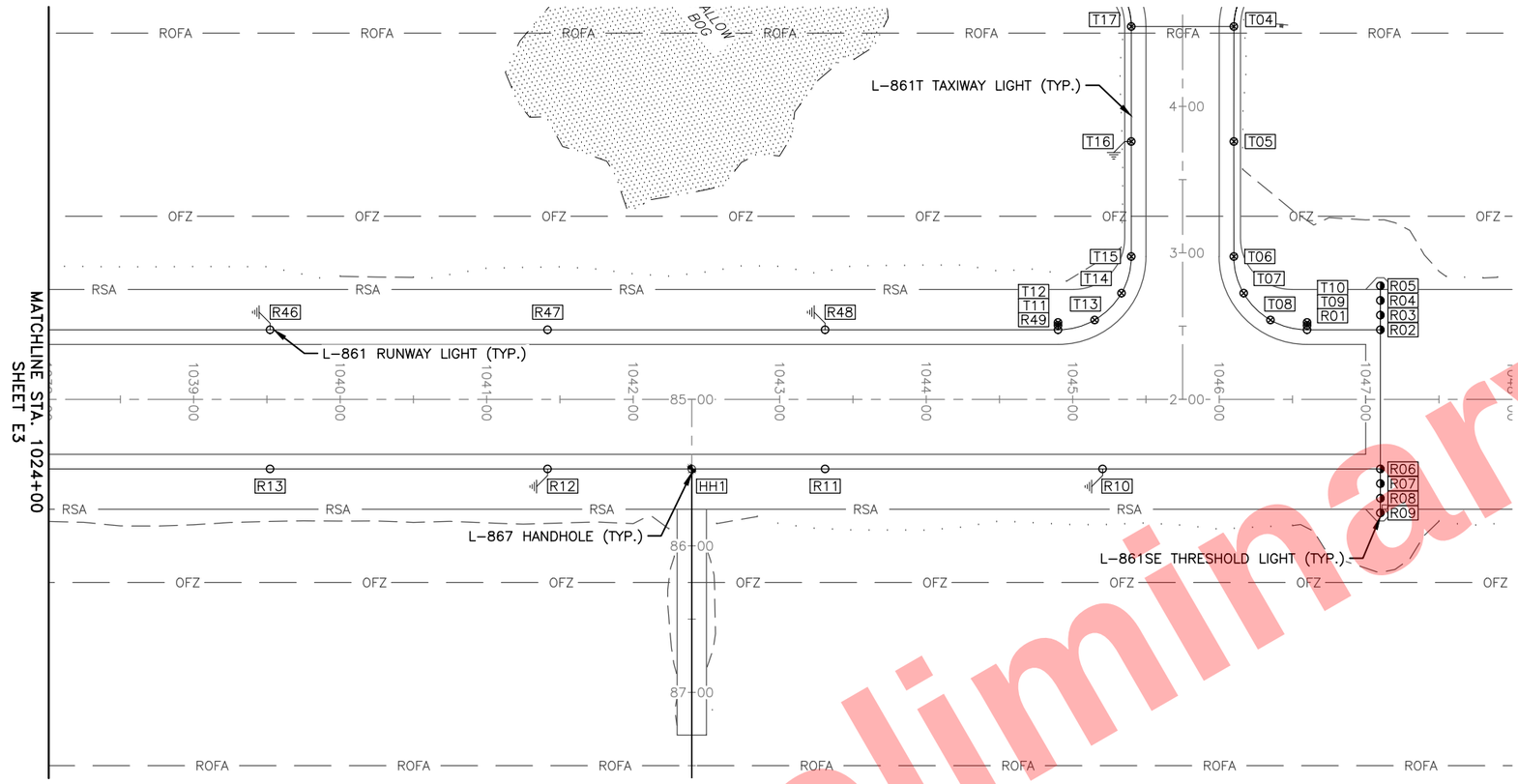
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
LIGHTING PLAN

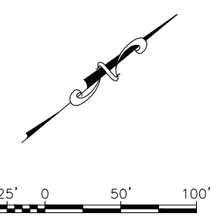
DATE: 01/08/2024

SHEET: E4 OF E14



RENOVATION NOTES

1. CONTRACTOR TO UTILIZE RIGID CONDUIT FOR ALL RUNWAY, TAXIWAY, AND APRON CROSSINGS.



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Date Revised:	1/10/2024, 2:19 PM
Layout Name:	E5
File Path and Name:	P:\042301\E\Drawings\00572-IGT-LTG.dwg

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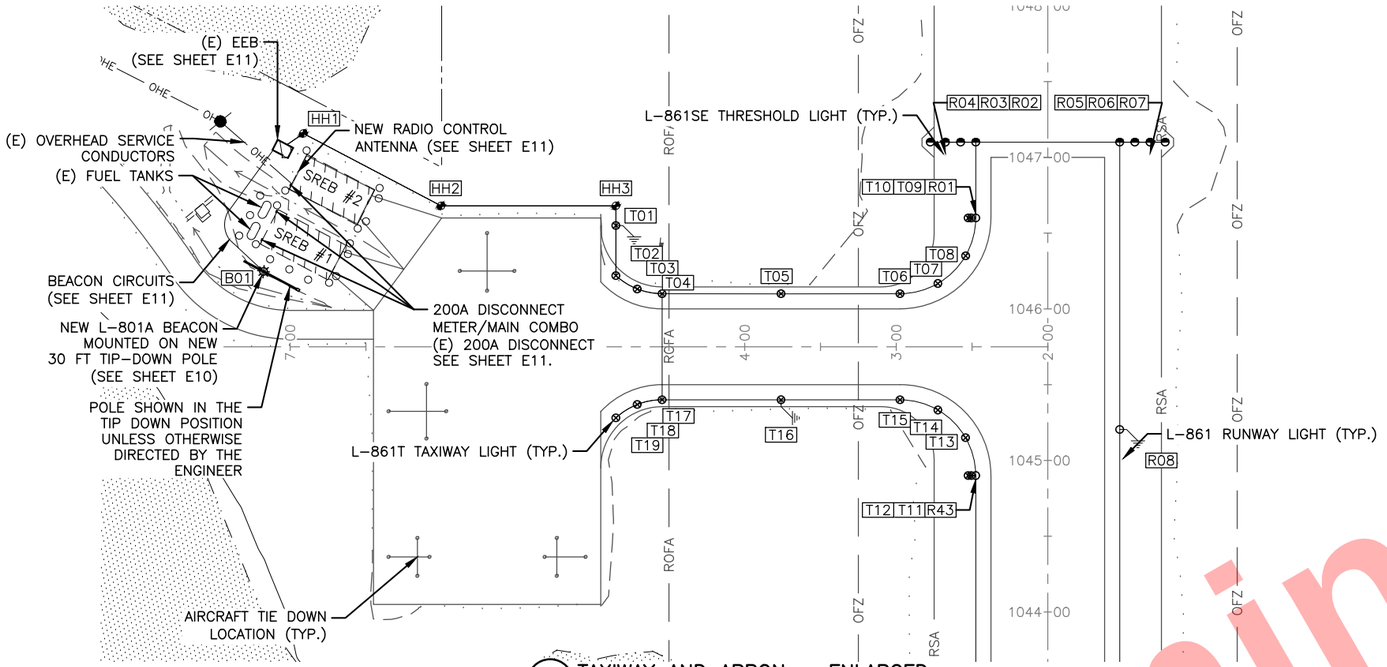
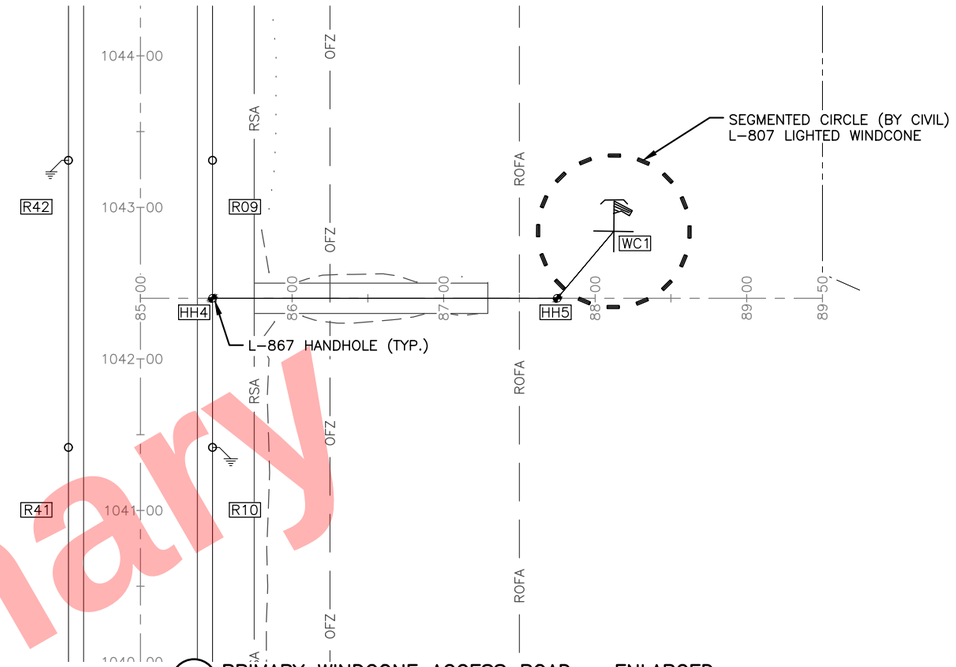
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
LIGHTING PLAN

DATE: 01/08/2024

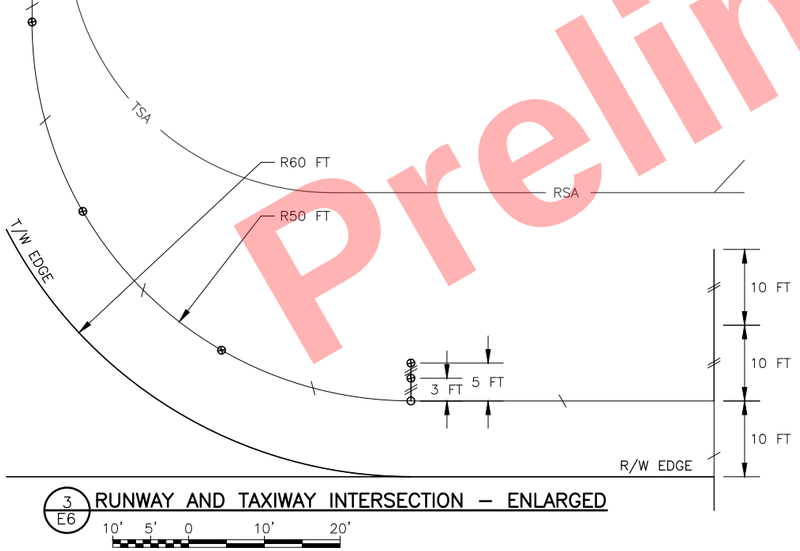
SHEET: E5 OF E14



1 E6 TAXIWAY AND APRON – ENLARGED



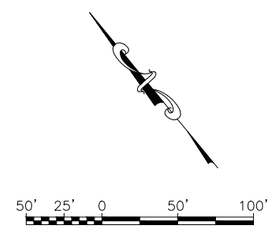
2 E6 PRIMARY WINDCONE ACCESS ROAD – ENLARGED



3 E6 RUNWAY AND TAXIWAY INTERSECTION – ENLARGED

RENOVATION NOTES

1. CONTRACTOR TO UTILIZE RIGID CONDUIT FOR ALL RUNWAY, TAXIWAY, AND APRON CROSSINGS.



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LIGHTING PLAN

DATE: 01/08/2024

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RUNWAY 03–21 LIGHTING

LIGHT NO.	LIGHT	STATION	OFFSET
R01	L–861 EDGE LIGHT	'RW' 1046+60.0	47.5LT
R02	L–861SE 21 THRESHOLD	'RW' 1047+10.0	47.5LT
R03	L–861SE 21 THRESHOLD	'RW' 1047+10.0	57.5LT
R04	L–861SE 21 THRESHOLD	'RW' 1047+10.0	67.5LT
R05	L–861SE 21 THRESHOLD	'RW' 1047+10.0	77.5LT
R06	L–861SE 21 THRESHOLD	'RW' 1047+10.0	47.5RT
R07	L–861SE 21 THRESHOLD	'RW' 1047+10.0	57.5RT
R08	L–861SE 21 THRESHOLD	'RW' 1047+10.0	67.5RT
R09	L–861SE 21 THRESHOLD	'RW' 1047+10.0	77.5RT
R10	L–861 EDGE LIGHT	'RW' 1045+20.4	47.5RT
R11	L–861 EDGE LIGHT	'RW' 1043+31.0	47.5RT
R12	L–861 EDGE LIGHT	'RW' 1041+41.6	47.5RT
R13	L–861 EDGE LIGHT	'RW' 1039+52.2	47.5RT
R14	L–861 EDGE LIGHT	'RW' 1037+62.8	47.5RT
R15	L–861 EDGE LIGHT	'RW' 1035+73.4	47.5RT
R16	L–861 EDGE LIGHT	'RW' 1033+84.0	47.5RT
R17	L–861 EDGE LIGHT	'RW' 1031+94.6	47.5RT
R18	L–861 EDGE LIGHT	'RW' 1030+05.2	47.5RT
R19	L–861 EDGE LIGHT	'RW' 1028+15.8	47.5RT
R20	L–861 EDGE LIGHT	'RW' 1026+26.4	47.5RT
R21	L–861 EDGE LIGHT	'RW' 1024+37.0	47.5RT
R22	L–861 EDGE LIGHT	'RW' 1022+47.6	47.5RT
R23	L–861 EDGE LIGHT	'RW' 1020+58.2	47.5RT
R24	L–861 EDGE LIGHT	'RW' 1018+68.8	47.5RT
R25	L–861 EDGE LIGHT	'RW' 1016+79.4	47.5RT
R26	L–861SE 03 THRESHOLD	'RW' 1014+90.0	47.5RT
R27	L–861SE 03 THRESHOLD	'RW' 1014+90.0	57.5RT
R28	L–861SE 03 THRESHOLD	'RW' 1014+90.0	67.5RT
R29	L–861SE 03 THRESHOLD	'RW' 1014+90.0	77.5RT
R30	L–861SE 03 THRESHOLD	'RW' 1014+90.0	47.5LT
R31	L–861SE 03 THRESHOLD	'RW' 1014+90.0	57.5LT
R32	L–861SE 03 THRESHOLD	'RW' 1014+90.0	67.5LT
R33	L–861SE 03 THRESHOLD	'RW' 1014+90.0	77.5RT
R34	L–861 EDGE LIGHT	'RW' 1016+79.4	47.5LT
R35	L–861 EDGE LIGHT	'RW' 1018+68.8	47.5LT
R36	L–861 EDGE LIGHT	'RW' 1020+58.2	47.5LT
R37	L–861 EDGE LIGHT	'RW' 1022+47.6	47.5LT
R38	L–861 EDGE LIGHT	'RW' 1024+37.0	47.5LT
R39	L–861 EDGE LIGHT	'RW' 1026+26.4	47.5LT
R40	L–861 EDGE LIGHT	'RW' 1028+15.8	47.5LT
R41	L–861 EDGE LIGHT	'RW' 1030+05.2	47.5LT
R42	L–861 EDGE LIGHT	'RW' 1031+94.6	47.5LT
R43	L–861 EDGE LIGHT	'RW' 1033+84.0	47.5LT
R44	L–861 EDGE LIGHT	'RW' 1035+73.4	47.5LT
R45	L–861 EDGE LIGHT	'RW' 1037+62.8	47.5LT
R46	L–861 EDGE LIGHT	'RW' 1039+52.2	47.5LT
R47	L–861 EDGE LIGHT	'RW' 1041+41.6	47.5LT
R48	L–861 EDGE LIGHT	'RW' 1043+31.0	47.5LT
R49	L–861 EDGE LIGHT	'RW' 1044+90.0	47.5LT

TAXIWAY LIGHTING

LIGHT NO.	LIGHT	STATION	OFFSET
T01	L–861T EDGE LIGHT	'TW' 4+85.0	80.0RT
T02	L–861T EDGE LIGHT	'TW' 4+85.0	46.9RT
T03	L–861T EDGE LIGHT	'TW' 4+70.9	38.1RT
T04	L–861T EDGE LIGHT	'TW' 4+54.5	35.0RT
T05	L–861T EDGE LIGHT	'TW' 3+76.0	35.0RT
T06	L–861T EDGE LIGHT	'TW' 2+97.5	35.0RT
T07	L–861T EDGE LIGHT	'TW' 2+72.5	41.7RT
T08	L–861T EDGE LIGHT	'TW' 2+54.2	60.0RT
T09	L–861T EDGE LIGHT	'TW' 2+52.5	85.0RT
T10	L–861T EDGE LIGHT	'TW' 2+50.5	85.0RT
T11	L–861T EDGE LIGHT	'TW' 2+50.5	85.0LT
T12	L–861T EDGE LIGHT	'TW' 2+52.5	85.0LT
T13	L–861T EDGE LIGHT	'TW' 2+54.2	60.0LT
T14	L–861T EDGE LIGHT	'TW' 2+72.5	41.7LT
T15	L–861T EDGE LIGHT	'TW' 2+97.5	35.0LT
T16	L–861T EDGE LIGHT	'TW' 3+76.0	35.0LT
T17	L–861T EDGE LIGHT	'TW' 4+54.5	35.0LT
T18	L–861T EDGE LIGHT	'TW' 4+70.9	38.1LT
T19	L–861T EDGE LIGHT	'TW' 4+85.0	46.9LT

WIND CONE AND BEACON LIGHTS

LIGHT NO.	LIGHT	STATION	OFFSET
WC1	L–807 WIND CONE	'WC' 88+12.4	44.2LT
WC2	L–806 WIND CONE	'SC' 72+50.0	00.0
HH4	L–867 HANDHOLE	'WC' 85+47.5	00.0
HH5	L–867 HANDHOLE	'WC' 87+75.0	00.0
HH6	L–867 HANDHOLE	'SC' 70+47.5	00.0
B01	L–801A(L) BEACON	'TW' 7+17.5	49.7RT

LIGHTING HANDHOLES

LIGHT NO.	LIGHT	STATION	OFFSET
HH1	L–867 HANDHOLE	'TW' 6+91.2	140.8RT
HH2	L–867 HANDHOLE	'TW' 6+00.3	93.0RT
HH3	L–867 HANDHOLE	'TW' 4+85.0	93.0RT

GENERAL NOTES

1. HANDHOLE LOCATIONS MAY BE FIELD ADJUSTED AS APPROVED BY THE ENGINEER.

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
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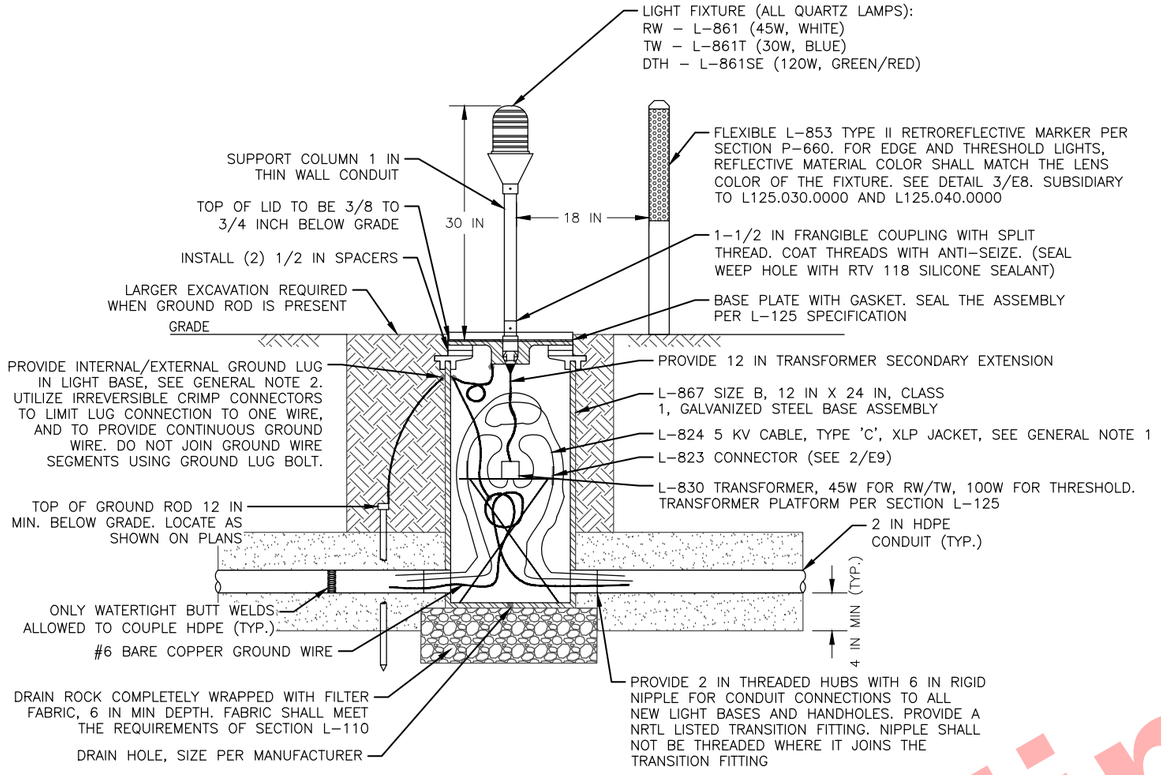
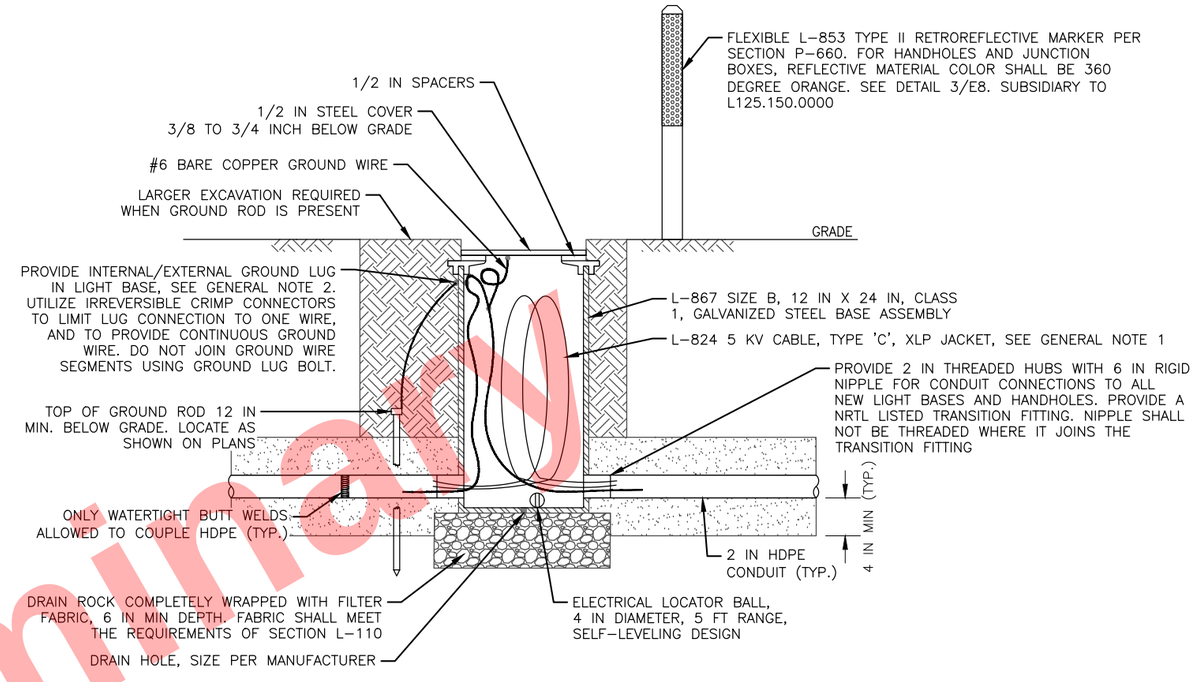
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
LIGHT STATIONING

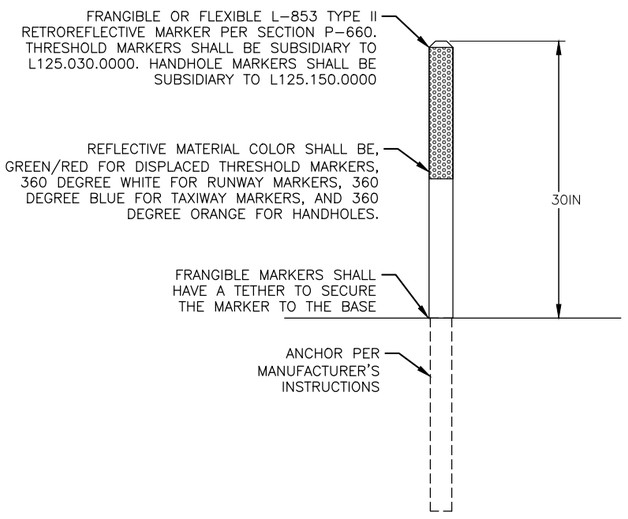
DATE: 01/08/2024
SHEET: E7 OF E14



1 E8 L–867 BASE MOUNTED LIGHT DETAIL
NTS



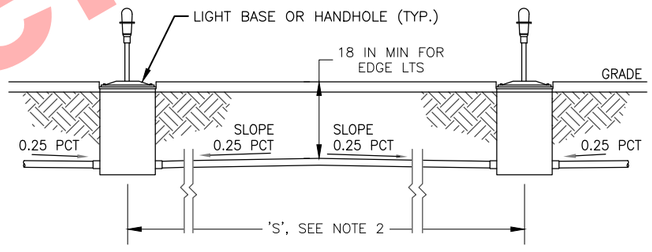
2 E8 L–867 HANDHOLE DETAIL
NTS



3 E8 RETROREFLECTIVE MARKER DETAIL
NTS

GENERAL NOTES

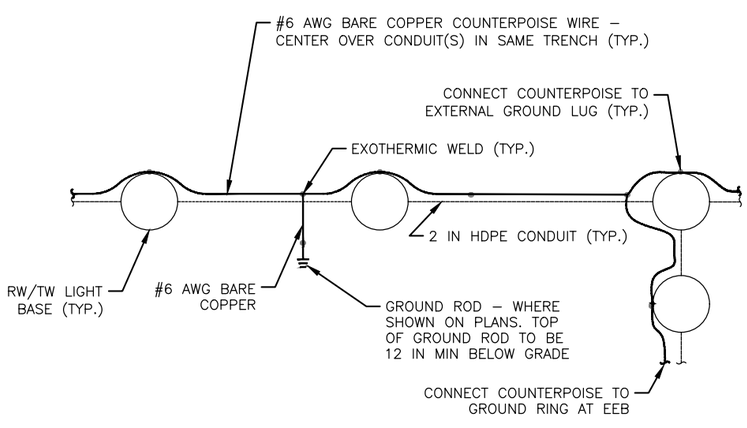
1. CABLES AND GROUND STRAPS SHALL HAVE SUFFICIENT SLACK TO ALLOW CONNECTORS TO BE DRAWN 36 IN ABOVE FINISHED GRADE. ALL CABLES SHALL BE TAGGED 6 IN FROM CONNECTOR.
2. GROUND FIXTURES AND HANDHOLE COVERS WITH MINIMUM #6 AWG STRANDED COPPER, GREEN INSULATED CONDUCTOR, OR WITH EQUIVALENT COPPER BRAIDED GROUND STRAP. BOND TO FIXTURE PER MANUFACTURER'S INSTRUCTIONS.
3. SEAL ALL CONDUIT ENTRIES EXCEPT DRAIN CONDUITS, WITH CONDUIT SEALANT, PER L–125 SPECIFICATION. CONDUIT AND CABLES TO BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.



DETAIL NOTES:

1. CONDUIT SHALL BE INSTALLED WITH CROWN TO DRAIN TO LIGHT BASES AS SHOWN.
2. IF 'S' IS LESS THAN 20 FT, OR IF 0.25 PCT SLOPE CAN BE MAINTAINED IN ONE DIRECTION DUE TO SLOPE OR GRADE, LAY CONDUIT STRAIGHT WITHOUT CROWN BETWEEN BASES/HANDHOLES.

4 E8 TYPICAL INTERCONNECTION DETAIL
NTS



5 E8 AIRFIELD LIGHTING COUNTERPOISE TYPICAL LAYOUT PLAN
NTS

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Date Revised:
Layout Name: E8
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AIP No. 3-02-0195-002-202X
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1 OF 2

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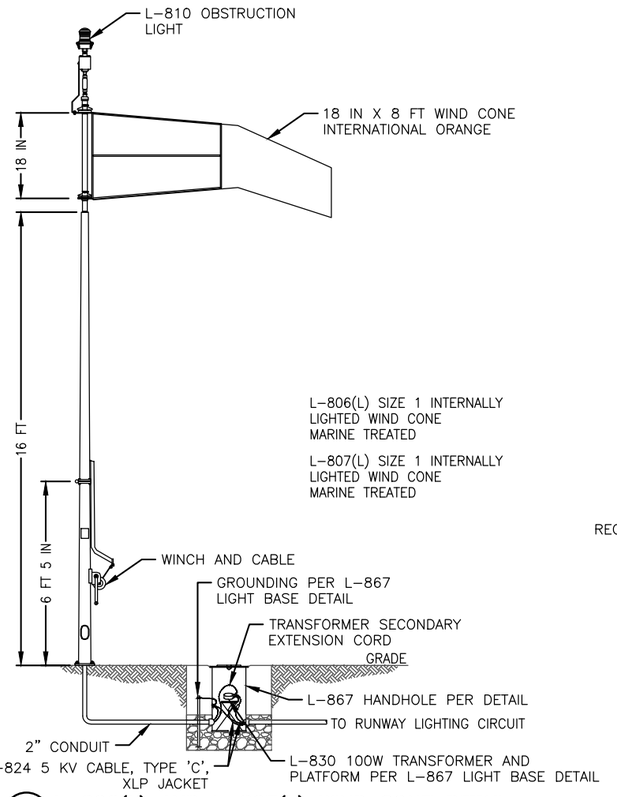
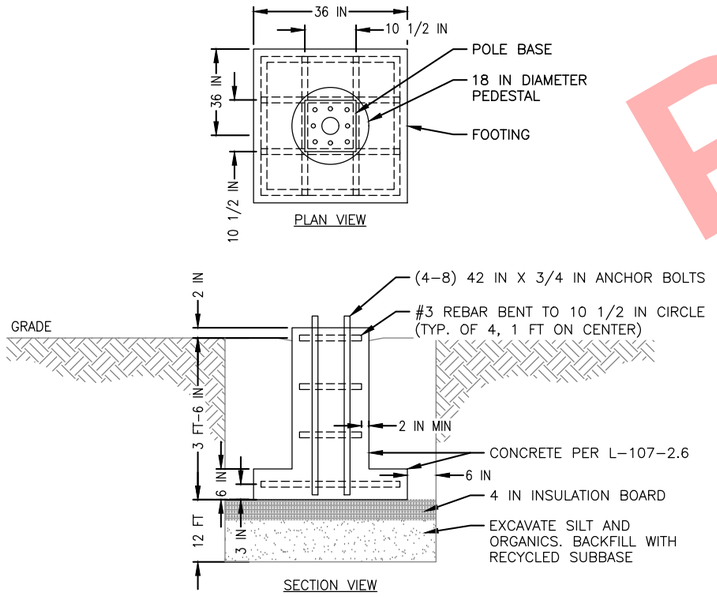


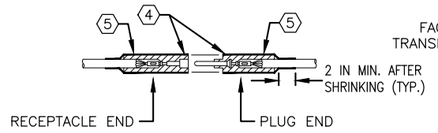
1/E9 L-806(L) AND L-807(L) WIND CONE DETAIL
NTS



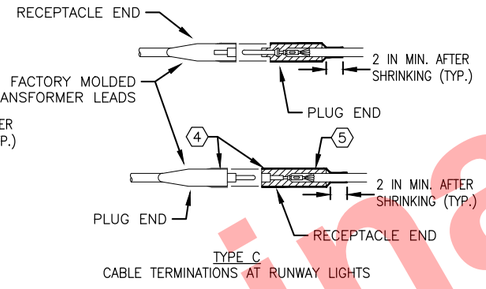
4/E9 WIND CONE FOUNDATION DETAIL
NTS

CONNECTOR DETAIL NOTES

1. CABLE SHALL MEET SPECIFICATION L-824. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE. CONNECTOR SHALL BE SUPPLIED TO MACH CABLE PER MANUFACTURER'S INSTRUCTIONS.
2. 5 KV CONDUCTORS SHALL BE PENCILED USING A PENCILING TOOL MANUFACTURED FOR USE ON #8 AWG, 5 KV, TYPE C AIRPORT CABLE.
3. CONNECTORS SHALL BE CRIMPED USING A RATCHET TYPE CRIMPING TOOL PER MANUFACTURER'S RECOMMENDATION. EACH CRIMP SHALL BE MADE WITH TWO CRIMPS, ROTATED 90 DEGREES.
4. WRAP WITH A MINIMUM OF ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPER, ONE-HALF LAPPED, EXTENDING AT LEAST 1.5 IN ON EACH SIDE OF JOINT. COVER WITH HEAT SHRINK, SEE NOTE 5.
5. HEAT SHRINKABLE TUBING SHALL BE 16 IN LONG, HAVE INTERNAL ADHESIVE FULL LENGTH, AND APPLIED FULL LENGTH TO CONNECTORS & CABLE TO HAVE A COMPLETE SEAL.

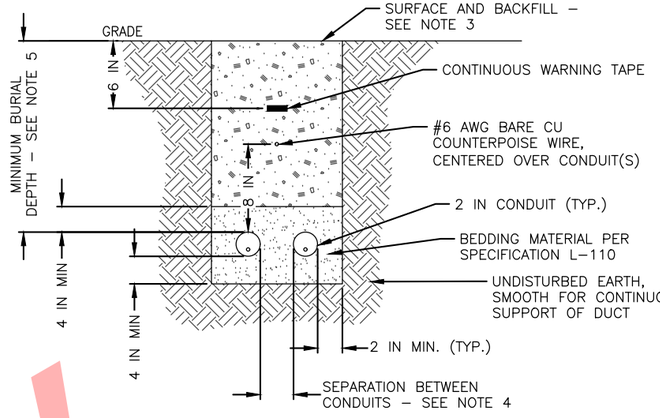


TYPE B
CABLE TERMINATIONS AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT



TYPE C
CABLE TERMINATIONS AT RUNWAY LIGHTS

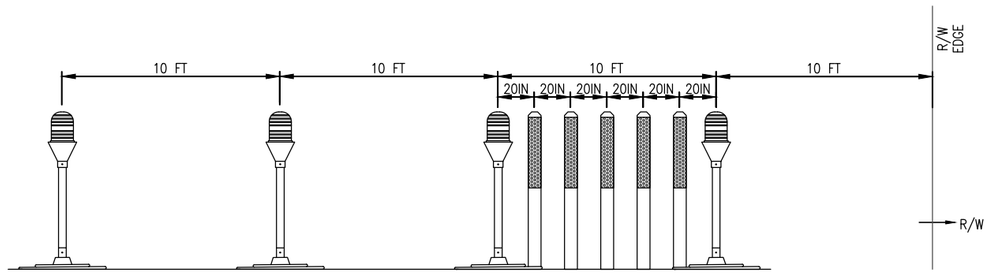
2/E9 L-823 CONNECTOR DETAILS
NTS



DETAIL NOTES

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

3/E9 TRENCH DETAIL
NTS



5/E9 OUTBOARD THRESHOLD LIGHT AND MARKER DETAIL
NTS

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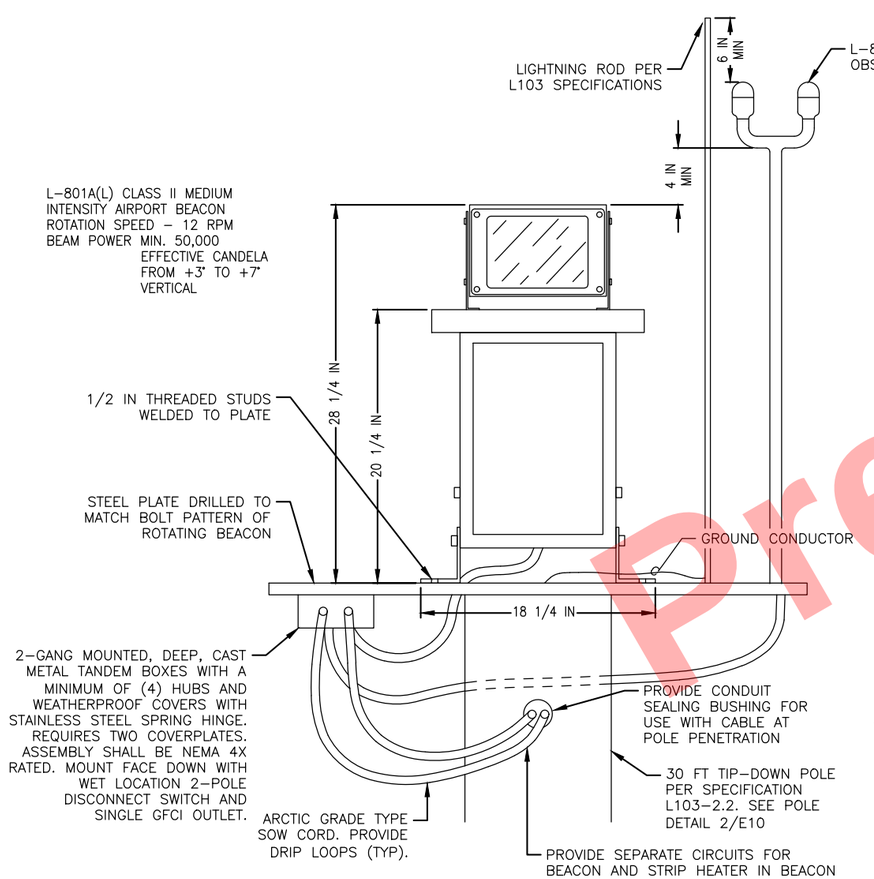
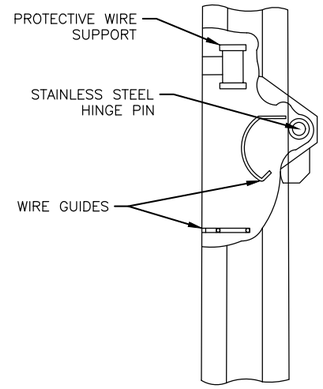


1 / E10 L–801A(L) BEACON AND MOUNT DETAILS
NTS



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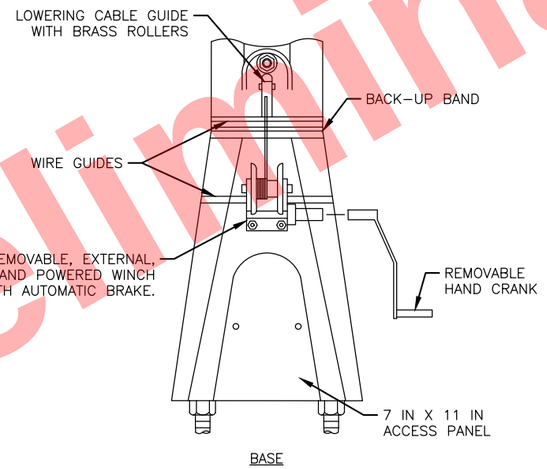

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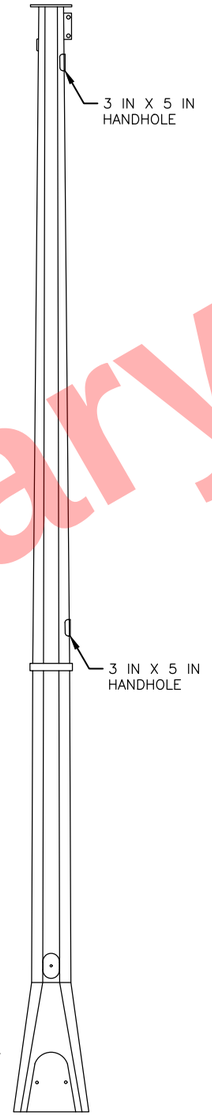
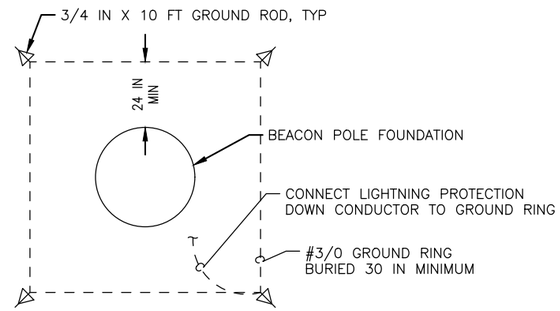


DETAIL NOTES

1. PROVIDE STRUCTURAL FOUNDATION PER SECTION L–103. PROVIDE 2" RSC CONDUIT EMBEDDED IN FOUNDATION. CONDUIT SHALL ENTER THE FOUNDATION HORIZONTALLY AT 18" BELOW GRADE, AND TERMINATE AT TOP OF CONCRETE, CENTERED UNDER BEACON TOWER.
2. VERIFY ANCHOR BOLT SIZE, BOLT CIRCLE, AND FOUNDATION SIZE WITH MANUFACTURER'S SHOP DRAWINGS.

2 / E10 BEACON TIP–DOWN POLE DETAILS
NTS



3 / E10 BEACON TOWER GROUND RING DETAILS
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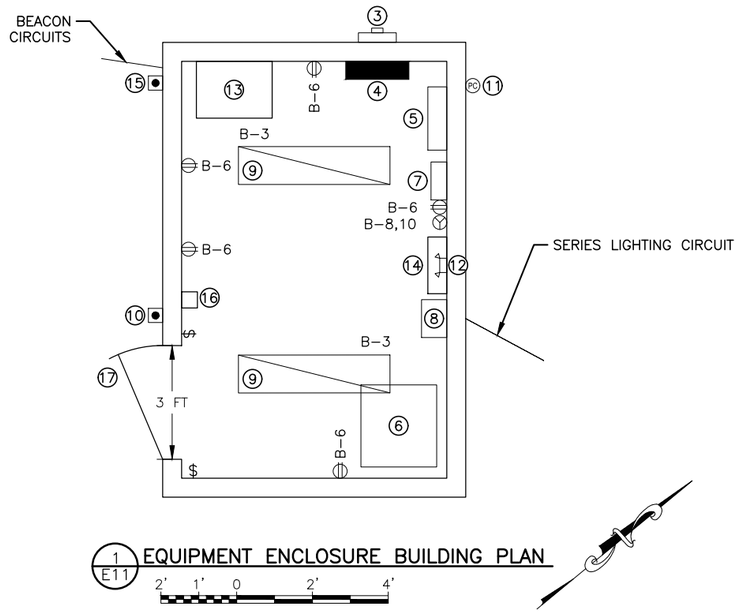
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
BEACON DETAILS

DATE: 01/08/2024
SHEET: E10 OF E14



1 E11 EQUIPMENT ENCLOSURE BUILDING PLAN

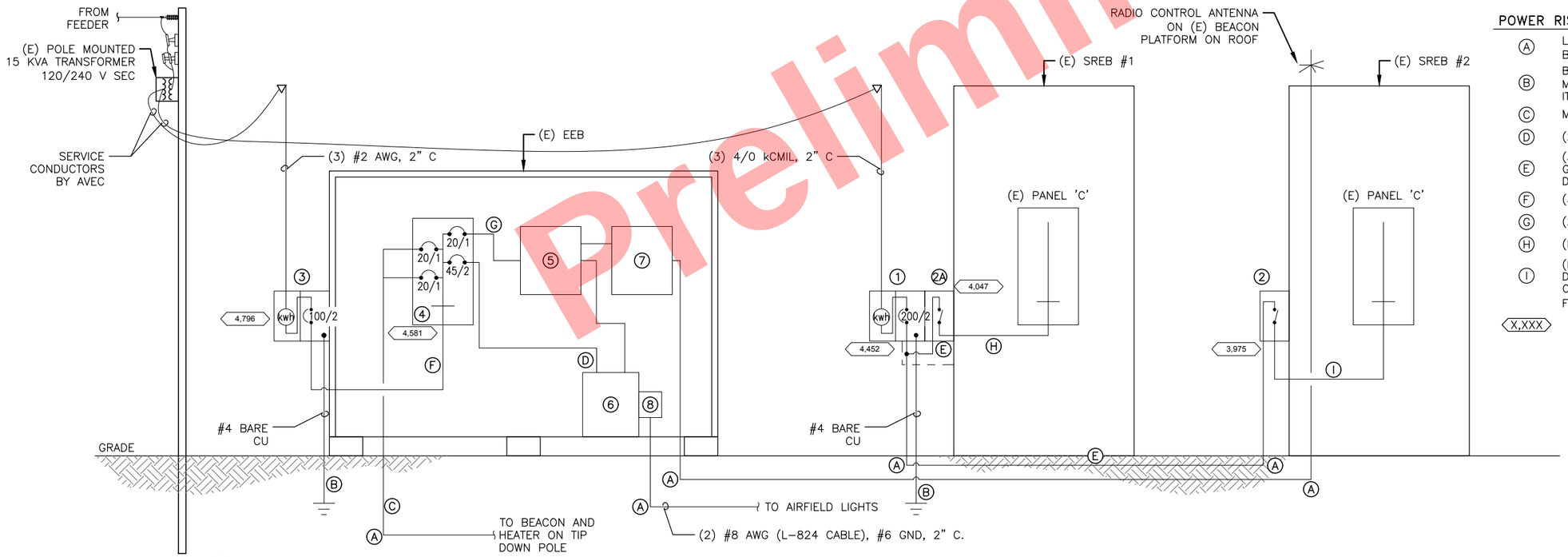
2' 1' 0 2' 4'

EQUIPMENT LIST

1. 200A METER/MAIN DISCONNECT, NEMA 3R ENCLOSURE
2. 200A, 240V, 2-POLE, NEMA 3R DISCONNECT SWITCH
2A. (E) 200A, 240V 2-POLE, NEMA 3R DISCONNECT SWITCH
3. 100A METER/MAIN DISCONNECT, NEMA 3R ENCLOSURE
4. (E) 120/240V PANEL 'B', SEE PANEL SCHEDULE
5. LIGHTING CONTROL PANEL, L-821
6. 7.5KW HEAVY DUTY CONSTANT CURRENT REGULATOR, L-828
7. RADIO CONTROLLER, L-854
8. 5KV PLUG CUTOUT IN NEMA 1 BOX
9. 1 FT X 4 FT ENCLOSED AND GASKETED LOW PROFILE LED LUMINAIRE. INJECTION MOLDED ACRYLIC LENS, ONE-PIECE FIBERGLASS FIXTURE HOUSING. 3000 LM, 4000K CCT. SURFACE MOUNT.
10. NEMA 4X PUSH BUTTON STATION AND SIGN TO READ: PUSH TO TURN RUNWAY LIGHTS ON. AUTO OFF IN 15 MINUTES
11. PHOTOCELL, ORIENTED NORTH, 5FC TURN ON
12. LED EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY TO PROVIDE MINIMUM 90 MINUTE RUNTIME AND SELF DIAGNOSTIC TESTING.
13. (E) FOLDING METAL WALL DESK AND CHAIR WITH BACK SUPPORT
14. (E) 18 IN X 18 IN METAL WALL CABINET
15. (E) EMERGENCY FUEL PUMP SHUTOFF PUSH BUTTON
16. (E) 5 LBS, CLASS ABC FIRE EXTINGUISHER IN CABINET
17. WALK-IN COOLER STYLE DOOR LATCH

CONSTRUCTION NOTES

1. EXISTING AIRPORT SERVICES PROVIDED VIA PARALLEL AERIAL FEEDERS FROM EXISTING AVEC POLE TO PARALLEL SERVICE MAST AND SIX METER PACK MOUNTED TO SREB #2. SIX-METER PACK CONTAINS (2) SPARE METER SOCKETS, (1) BLANK METER SOCKET FOR FUTURE FAA SERVICE, AND (1) METER EACH FOR SREB #1, SREB #2, AND EEB SERVICES RESPECTIVELY.
2. CONTRACTOR SHALL COORDINATE DISCONNECT OF EXISTING SERVICE AERIAL AND CONNECTION OF NEW EEB AND COMBINED SREB SERVICE WITH AVEC. NO ADDITIONAL SERVICES OR PROVISIONS WILL BE PROVIDED. REFER TO 2/E11.
3. EEB FEATURES AN EXISTING TO REMAIN GROUND RING COMPOSED OF #2/0 BARE COPPER CONDUCTOR EXOTHERMICALLY WELDED TO (4) 3/4 IN X 10 FT GROUND RODS LOCATED AT BUILDING CORNERS. GROUND RING IS BURIED APPROXIMATELY 3 FT FROM EEB EDGE AND 30 IN BELOW GRADE, WITH GROUND RODS 12 IN BELOW GRADE. SREB #1 AND SREB #2 HAVE SIMILAR GROUND RINGS. TO MAXIMUM EXTENT PRACTICAL, CONTRACTOR SHALL PROTECT SREB GROUND RINGS DURING CONSTRUCTION FOR RECONNECTION TO SREB #2 AFTER RELEVELING WORK IS COMPLETE.
4. WHERE SREB #2 GROUND RING CANNOT BE MAINTAINED DURING CONSTRUCTION, CONTRACTOR SHALL SEVER BONDS BETWEEN SREB #2 AND EEB GROUND RING AND PROVIDE REPAIRS OR NEW GROUND RING TO MATCH EEB GROUND RING.
5. UNLESS OTHERWISE NOTED AS EXISTING TO REMAIN, DEMOLISH ALL EQUIPMENT FROM EEB. ASSUME EQUIPMENT LIST IS INDICATIVE OF REPLACEMENT OF EQUIPMENT IN KIND.
6. ALL WALL PENETRATIONS SHALL BE SEALED WITH SILICONE SEALANT.



2 E11 EEB POWER RISER DIAGRAM

NTS

POWER RISER NOTES

- (A) LIQUIDTIGHT FLEXIBLE CONDUIT MIN 6" ABOVE GRADE TO BEYOND BEND BELOW GRADE. 36" MIN. LENGTH.
- (B) BOND SERVICE TO (E) BUILDING GROUND RING UTILIZING MINIMUM #4 BARE COPPER CONDUCTOR. PAID FOR UNDER PAY ITEM L109.050.0000.
- (C) MIN (2) #10 AWG, #10 GND EACH, 3/4" C.
- (D) (2) #6 AWG, #10 GND, 3/4" C
- (E) (3) #4/0, #6 GND, 2" C – PERFORM TAP IN NEW NEMA 3R GUTTERBOX MOUNTED TO BUILDING NEXT TO SERVICE DISCONNECT.
- (F) (3) #2 AWG, #8 GND, 1 1/4" C
- (G) (2) #12 AWG, #12 GND, 1/2" C
- (H) (E) FEEDER
- (I) (E) FEEDER – DISCONNECT FROM DEMOLISHED SERVICE DISCONNECT AND PRESERVE FOR CONNECTION TO LOAD SIDE OF NEW BUILDING DISCONNECT
- X,XXX FAULT CURRENT UNDER THE FOLLOWING ASSUMPTIONS:
  - 1.6%Z SERVICE TRANSFORMER
  - 75 LINEAR FEET OF SECONDARY (SREB SERVICE)
  - 40 LINEAR FEET OF SECONDARY (EEB SERVICE)

Designed By: JCC
Drawn By: JCC
Checked By: DLH
Date Revised: 1/10/2024, 2:19 PM
Layout Name: E11
File Path and Name: P:\042301\E\Drawings\00572-IGT-LTG.dwg

PLANS DEVELOPED BY:
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BY	DATE	REVISION

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
ELECTRICAL EQUIPMENT BUILDING PLANS

DATE: 01/08/2024
SHEET: E11 OF E14

(E) PANEL 'B'

LOCATION:	EEB	VOLTS:	120/240 V	A.I.C. RATING:	10,000 A
SUPPLY:	SERVICE	PHASES:	1	MAINS TYPE:	MLO
MOUNTING:	SURFACE	WIRES:	3	MAINS RATING:	100 A
ENCLOSURE:	NEMA TYPE 1	POLE SPACES:	30	PANELBOARD FEEDER C/B RATING:	100 A

NOTES:

CKT NO	P	TRIP	LOAD SERVED	LOAD TYPE	LOAD (VA)	BUS	LOAD (VA)	LOAD TYPE	LOAD SERVED	TRIP	P	CKT NO
1	1	20	LIGHTING CONTROL PANEL	E	500	A	136	M	ROTATING BEACON AND MOTOR	20	1	2
3	1	20	ENCLOSURE LIGHTING	L	78	B	400	C	ROTATING BEACON HEATER	20	1	4
5	1	20	(E) BEACON RECEPTACLE	R	180	A	900	R	REC-INTERIOR	20	1	6
7	1	20	SPARE	S	0	B	1,000	C	EEB HEATER (2 KW)	20	2	8
9	2	45	7.5 KW RW REGULATOR	E	2,450	A	1,000	C	" "			10
11			" "	E	2,450	B	1,200	E	(E) FUEL DISPENSER	20	1	12
13	--	--	PREPARED SPACE	-	0	A	0	-	PREPARED SPACE	--	--	14
15	--	--	" "	-	0	B	0	-	" "	--	--	16
17	--	--	" "	-	0	A	0	-	" "	--	--	18
19	--	--	" "	-	0	B	0	-	" "	--	--	20
21	--	--	" "	-	0	A	0	-	" "	--	--	22
23	--	--	" "	-	0	B	0	-	" "	--	--	24
25	--	--	" "	-	0	A	0	-	" "	--	--	26
27	--	--	" "	-	0	B	0	-	" "	--	--	28
29	--	--	" "	-	0	A	0	-	" "	--	--	30

CONNECTED LOAD CALCULATIONS:	LOAD	BALANCE	CURRENT	LOAD PERCENTAGE
PHASE A	5,166 VA	50%	43.1 A	43%
PHASE B	5,128 VA	50%	42.7 A	43%
PHASE C	--	--	--	--
TOTAL CONNECTED LOAD:	10,294 VA		42.9 A	43%

NEC DEMAND LOAD CALCULATIONS:	LOAD	FACTOR	TOTAL	CURRENT	LOAD PERCENTAGE
L=LIGHTING X125%	78 VA	125%	98 VA	0.4 A	0%
R=RECEPTACLES (NEC 220.44)	1,080 VA	100%	1,080 VA	4.5 A	5%
C=EQUIPMENT (CONT.) X125%	2,400 VA	125%	3,000 VA	12.5 A	13%
E=EQUIPMENT (NON-CONT.) X100%	6,600 VA	100%	6,600 VA	27.5 A	28%
M=MOTORS (+25% OF LARGEST)	136 VA	125%	170 VA	0.7 A	1%
A=APPLIANCES (NEC 220.56)	--	--	--	--	--
TOTAL DEMAND LOAD:	10,294 VA	106%	10,948 VA	45.6 A	46%

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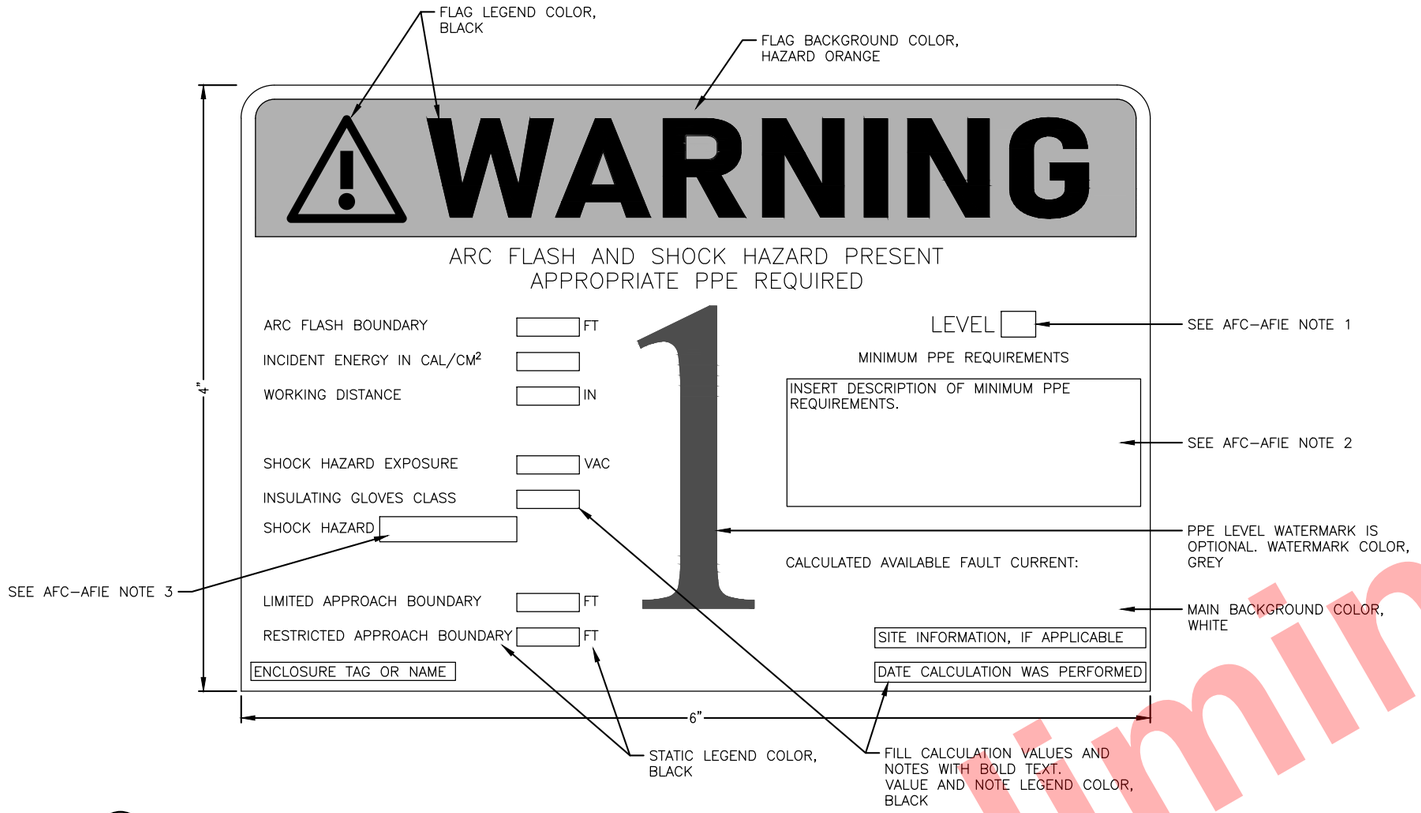
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
PANEL SCHEDULES

DATE: 01/08/2024



1 / E13 ARC FLASH AND SHOCK HAZARD LABEL
NTS

ARC FLASH AND SHOCK HAZARD LABEL (AFC-AFIE) NOTES

1. THE EEB AND SREB SERVICE DISCONNECTS SHALL BE LABLED WITH DOT&PF-DEFINED SITE-SPECIFIC PERSONNEL PROTECTIVE EQUIPMENT (PPE) LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(C). THE PPE CALORIE LEVELS PER SQUARE-CENTIMETER ARE:
   - LEVEL 1: 0 TO 4.0
   - LEVEL 2: 4.1 TO 8.0
   - LEVEL 3: 8.1 TO 25.0
   - LEVEL 4: 25.1 TO 39.9
   - WORK PROHIBITED (WP): CALCULATED INCIDENT ENERGY EXCEEDS 40.0
2. MINIMUM PPE REQUIREMENTS FOR EACH PPE LEVEL DESCRIBED IN THE PREVIOUS NOTE ARE THE SAME REQUIREMENTS AS DESCRIBED IN NFPA 70E TABLE 130.7(C)(15)(C). THESE PPE REQUIREMENTS ARE TO BE USED AS THE SITE-SPECIFIC PPE LEVELS.
3. PROVIDE DESCRIPTION OF EQUIPMENT CONFIGURATIONS IN WHICH A HAZARD EXISTS. FOR EXAMPLE: "WHEN COVER REMOVED".
4. ALL REFERENCES ARE TO NFPA 70E 2021 EDITION.

ARC FLASH CALCULATIONS

	METERBASE – SREB	SREB #1 DISCONNECT	PANEL 'C' (SREB #1)	SREB #2 DISCONNECT	PANEL 'C' (SREB #2)	METERBASE – EEB	PANEL 'B'
ARC FLASH BOUNDARY	19 IN	19 IN	19 IN	19 IN	19 IN	19 IN	19 IN
INCIDENT ENERGY	0.74 CAL/CM^2	0.66 CAL/CM^2	0.66 CAL/CM^2	0.65 CAL/CM^2	0.65 CAL/CM^2	0.58 CAL/CM^2	0.76 CAL/CM^2
WORKING DISTANCE	18 IN	18 IN	18 IN	18 IN	18 IN	18 IN	18 IN
SHOCK HAZARD EXPOSURE	240 VAC	240 VAC	240 VAC	240 VAC	240 VAC	240 VAC	240 VAC
INSULATING GLOVES GLASS	CLASS 00 (BEIGE)	CLASS 00 (BEIGE)	CLASS 00 (BEIGE)	CLASS 00 (BEIGE)	CLASS 00 (BEIGE)	CLASS 00 (BEIGE)	CLASS 00 (BEIGE)
LIMITED APPROACH BOUNDARY	42 IN	42 IN	42 IN	42 IN	42 IN	42 IN	42 IN
RESTRICTED APPROACH BOUNDARY	12 IN	12 IN	12 IN	12 IN	12 IN	12 IN	12 IN
PPE LEVEL	1	1	1	1	1	1	1
CALCULATION DATE	1/4/2024						

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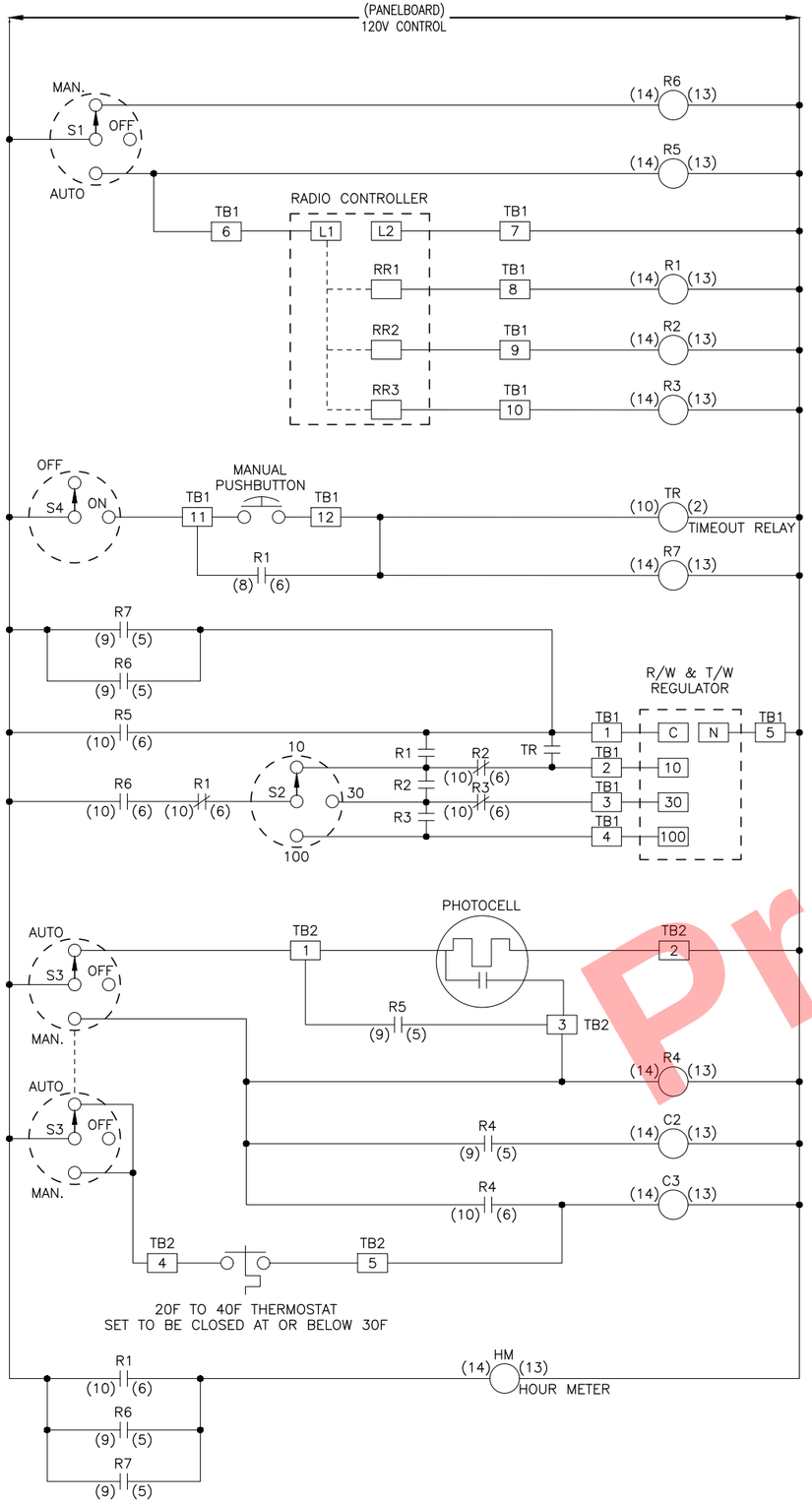
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
PANEL ARC FLASH INFORMATION

DATE: 01/08/2024
SHEET: E13 OF E14



CONTROL EQUIPMENT

RELAYS RR1, RR2, & RR3 ARE INTERNAL IN THE RADIO CONTROLLER.

RELAYS R1, R2, R3, & R4 SHALL BE ENCLOSED, PLUG–IN TYPE WITH 10A, 120V, 60HZ CONTACTS, 120V 60HZ OPERATING COIL, SUITABLE FOR OPERATION AT –60 DEG F.

TERMINAL BLOCKS TB1, TB2, & TB3 SHALL HAVE TERMINALS RATED 30A, 120V, 60HZ.

CONTACTORS C1, C2, & C3 SHALL BE ENCLOSED, WITH 30A, 120V, 60HZ CONTACTS, 120V 60 HZ OPERATING COILS, AND BE SUITABLE FOR OPERATION AT –60 DEG F.

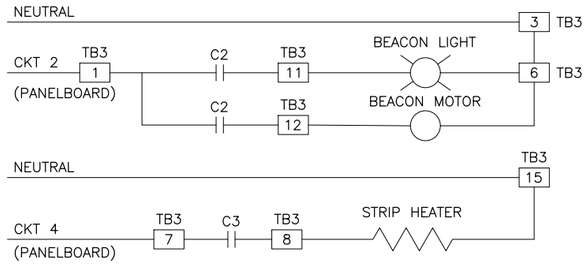
NOTES

THIS CONTROL DIAGRAM ASSUMES THAT THE RADIO CONTROLLER RELAYS ARE PROGRAMMED TO BE OPERATED "SEQUENTIALLY", SUCH THAT WITHIN A 5 SECOND PERIOD:

- RR1 IS ACTIVATED IF 3 PULSES ARE RECEIVED
- RR2 IS ACTIVATED IF 5 PULSES ARE RECEIVED
- RR3 IS ACTIVATED IF 7 PULSES ARE RECEIVED

RELAYS SHALL BE GENERAL PURPOSE CONTROL RELAYS, UNLESS OTHERWISE NOTED.

TERMINAL NUMBERS AND RELAY CONNECTION NUMBERS ARE FOR REFERENCE ONLY – AS–BUILT DRAWINGS ARE TO SHOW NUMBERS USED.



LIGHTING CONTROL SEQUENCE

1. MANUAL – AT CONTROL PANEL

   1.A. SWITCH S1 – SET TO MANUAL
   - 1.A.1. RUNWAY LIGHTS – ON
   - 1.A.2. TAXIWAY LIGHTS – ON
   - 1.A.3. WIND CONE LIGHTS – ON 100% INTENSITY
   - 1.A.4. BEACON – ON 100% INTENSITY

   1.B. SWITCH S4 – ON
   - 1.B.1. MANUAL PUSHBUTTON DEPRESSED
     - 1.B.1.1. RUNWAY LIGHTS – ON
     - 1.B.1.2. TAXIWAY LLIGHTS – ON
     - 1.B.1.3. WIND CONE LIGHTS – ON 100% INTENSITY
     - 1.B.1.4. BEACON – ON 100% INTENSITY
     - 1.B.1.5. START/RESTART 15 MINUTE TIMER

   1.C. SWITCH S2 – SELECT RUNWAY LIGHT INTENSITY, 10–30–100% IN MANUAL & TIME RELAY POSITION

2. AUTOMATIC – SWITCH S1 – SET TO AUTO

   2.A. RADIO CONTROLLER
   - 2.A.1. RELAY RR1 ACTIVATED
     - 2.A.1.1. RUNWAY LIGHTS – ON 10% INTENSITY
     - 2.A.1.2. TAXIWAY LIGHTS – ON 10% INTENSITY
     - 2.A.1.3. WIND CONE LIGHTS – ON 100% INTENSITY
     - 2.A.1.4. BEACON – ON 100% INTENSITY
   - 2.A.2. RELAY RR1 & RR2 ACTIVATED
     - 2.A.2.1. RUNWAY LIGHTS – ON 30% INTENSITY
     - 2.A.2.2. TAXIWAY LIGHTS – ON 30% INTENSITY
     - 2.A.2.3. WIND CONE LIGHTS – ON 100% INTENSITY
     - 2.A.2.4. BEACON – 100% INTENSITY
   - 2.A.3. RELAY RR1, RR2, & RR3 ACTIVATED
     - 2.A.3.1. RUNWAY LIGHTS – ON 100% INTENSITY
     - 2.A.3.2. TAXIWAY LIGHTS – ON 100% INTENSITY
     - 2.A.3.3. WIND CONE LIGHTS – ON 100% INTENSITY
     - 2.A.3.4. BEACON – 100% INTENSITY
   - 2.A.4. RELAY RR1, RR2, & RR3 DEACTIVATED BY INTERNAL TIMER
     - 2.A.4.1. RUNWAY LIGHTS – OFF
     - 2.A.4.2. TAXIWAY LIGHTS – OFF
     - 2.A.4.3. WIND CONE LIGHTS – OFF
     - 2.A.4.4. BEACON – SWITCH S3 CONTROL

3. SWITCH S3 ALLOWS MANUAL OR AUTOMATIC OPERATION OFF THE ROTATING BEACON. AUTOMATIC OPERATION CONTROLLED BY PHOTOCELL OR R/W AND T/W LIGHTING SYSTEMS. THE THERMOSTAT OPERATES THE STRIP HEATER IN MANUAL & AUTOMATIC POSITIONS

4. EXTERNAL MANUAL PUSHBUTTON TURNS RUNWAY LIGHTS ON AT SWITCH S2 BRIGHTNESS LEVEL FOR 15 MINUTES (TIMEOUT ADJUSTABLE BY TIMER). PRESSING MANUAL PUSHBUTTON AGAIN WITHIN TIMEOUT PERIOD RESETS TIMER.

5. SWITCH S4 WILL NOT OVERRIDE AUTOMATIC OPERATION BY THE RADIO CONTROLLER NOR MANUAL OPERATION AT THE CONTROL PANEL.

Designed By:	Drawn By:	Checked By:
JCC	JCC	DLH

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
LIGHTING CONTROL DIAGRAM
PLANS

DATE: 01/08/2024
SHEET: E14 OF E14

CONSTRUCTION PHASING SCHEDULE

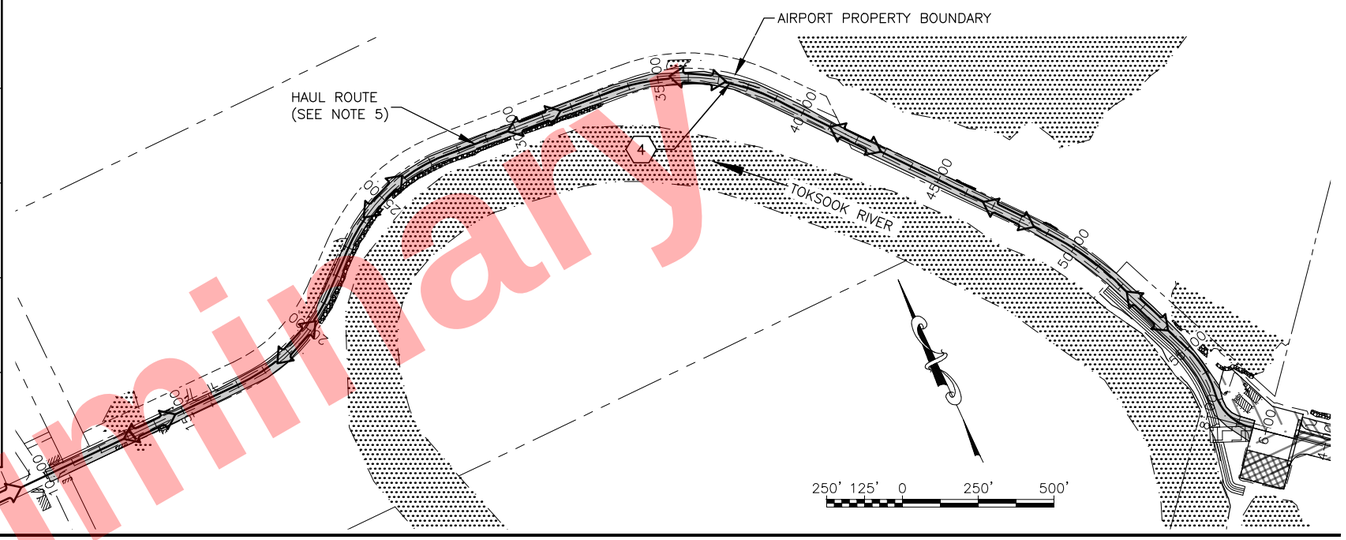
CONSTRUCTION PHASE	WORK TO BE COMPLETED	WORK PHASES THAT MUST PRECEDE WORK	RUNWAY CLOSURES	TAXIWAY CLOSURES	LEGEND
1	–CONSTRUCT RSA EXPANSION –EXCAVATE AND BACKFILL FOR RSA EXTENSION –CONSTRUCT WIDENING FOR TEMPORARY TAXIWAY –REHABILITATE RW/RSA –REHABILITATE PRIMARY WIND CONE –INSTALL LIGHTING –CONSTRUCT BARGE LANDING –INSTALL EROSION PROTECTION	RUNWAY AREA GRADING	HALF–WIDTH	PARTIAL –WIDTH	
2A	–CONSTRUCT RSA EXPANSION –REHABILITATE RW/RSA –REHABILITATE TW/TSA –INSTALL LIGHTING –INSTALL SIGNAGE	PHASE 1	HALF–WIDTH	PARTIAL –WIDTH	
2B	–CONSTRUCT RSA EXPANSION –REHABILITATE RW/RSA –REHABILITATE TW/TSA –INSTALL LIGHTING –INSTALL SIGNAGE	PHASE 2A	HALF–WIDTH	PARTIAL –WIDTH	
3	–REHABILITATE RSA –CONSTRUCT RSA EXTENSION	PHASE 2B	PARTIAL	N/A	
4	–REMOVE & INSTALL CULVERT –REHABILITATE ROAD –INSTALL SIGNAGE	NONE	N/A	N/A	
5A	–RELEVEL SREB –REHABILITATE APRON –INSTALL TIE DOWNS	PHASE 3	N/A	N/A	
5B	–REHABILITATE APRON –INSTALL TIE DOWNS	PHASE 4	N/A	N/A	

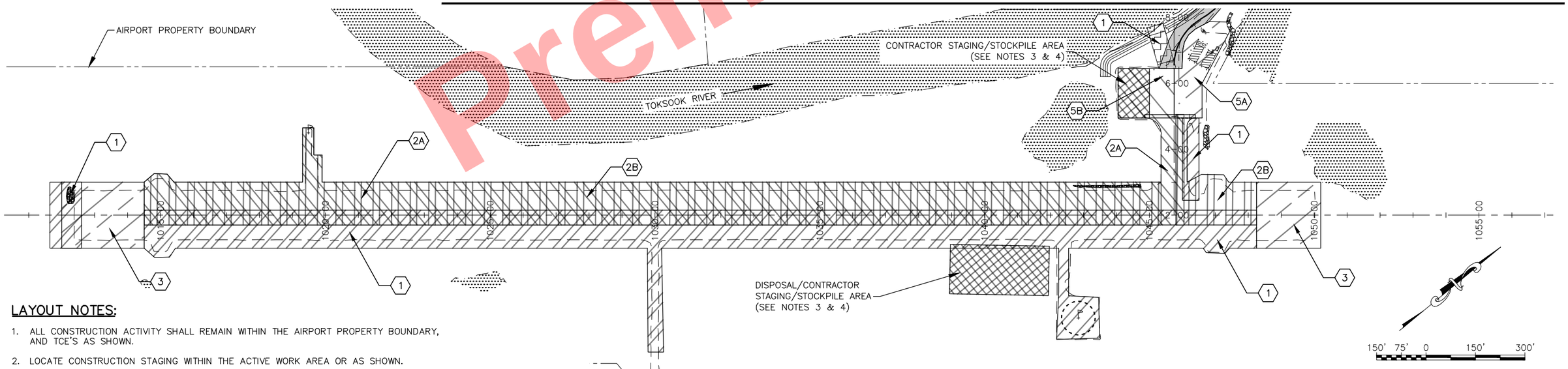
SHEET LEGEND

DISPOSAL/CONTRACTOR STAGING AREA

BARGE LANDING

HAUL ROUTE





LAYOUT NOTES:

1. ALL CONSTRUCTION ACTIVITY SHALL REMAIN WITHIN THE AIRPORT PROPERTY BOUNDARY, AND TCE'S AS SHOWN.
2. LOCATE CONSTRUCTION STAGING WITHIN THE ACTIVE WORK AREA OR AS SHOWN.
3. DISPOSAL MATERIAL MAY BE USED TO CONSTRUCT CONTRACTOR STAGING/STOCKPILE AREA.
4. IMPORTED MATERIAL MAY ONLY BE STAGED IN THE CONTRACTOR STAGING/STOCKPILE AREA OR AS DIRECTED BY THE ENGINEER.
5. MULTIPLE LOW CLEARANCE CROSSINGS PER 2021 SURVEY. PROTECT IN PLACE AND MAINTAIN SERVICE AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY CLEARANCES AND FOR ANY NECESSARY UTILITY COORDINATION.

BY	DATE	REVISION

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP OVERVIEW

DATE: 01/24/2024

SHEET: AC1 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/24/2024, 7:15 AM Overview
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GENERAL SAFETY REQUIREMENTS

1. SEE APPENDIX C OF THE SPECIFICATIONS FOR THE CONSTRUCTION SAFETY AND PHASING PLAN(CSPP) REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH THE SAFETY REQUIREMENTS AS REQUIRED IN THE CSPP. ALL SAFETY RELATED WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND NO ADDITIONAL PAYMENT WILL BE MADE.

2. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT, PER FAA AC 150/5370-2, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ISSUANCE OF A NOTICE TO PROCEED. IF THE CONSTRUCTION PHASING PLAN DIFFERS FROM WHAT IS SHOWN OR IF SUBSEQUENT CHANGES ARE MADE, SUBMIT A REVISION TO THE ENGINEER FOR REVIEW AND APPROVAL

3. THIS PROJECT WILL REQUIRE THAT PORTIONS OF THE RUNWAY, TAXIWAY, AND APRON BEING WORKED ON BE CLOSED TO AIRCRAFT OPERATIONS, NO WORK WILL BE ALLOWED IN AREAS THAT ARE OPEN TO AIRCRAFT OPERATIONS. DURING PHASES 1, 2A, 2B, 3, 5A, AND 5B, THE CLOSED PORTIONS OF THE RUNWAY AND TAXIWAY MAY BE USED AS A HAUL ROUTE. AIRCRAFT ALWAYS HAVE THE RIGHT OF WAY. ALL GROUND VEHICLES MUST YIELD TO AIRCRAFT AT ALL TIMES.

4. WHEN WORKING NEAR THE OPEN RUNWAY, EVACUATE ALL PERSONNEL AND EQUIPMENT TO THE SAFE ZONES DESCRIBED IN DETAILS 1 AND 2 ON SHEET AC20, 5 MINUTES PRIOR TO AND 5 MINUTES AFTER ALL ARRIVALS AND DEPARTURES. WHEN PERSONNEL AND EQUIPMENT CANNOT BE EVACUATED TO THE SAFE ZONES, THEY MUST EVACUATE THE RUNWAY SAFETY AREA (RSA) AND/OR TAXIWAY SAFETY AREA (TSA) AND MOVE AS FAR AWAY FROM THE RUNWAY CENTERLINE AS PRACTICAL DURING AIRCRAFT OPERATIONS. **IN NO CASE CAN PERSONNEL OR EQUIPMENT BE INSIDE THE RSA, OFA, OR TSA DURING AIRCRAFT OPERATIONS.**

5. DETERMINE THE TIMES OF SCHEDULED FLIGHTS INTO IGT AND ALLOW AIRCRAFT TO USE THE RUNWAY DURING THE SCHEDULED TIMES. THE CONTRACTOR SHALL MONITOR THE COMMON TRAFFIC ADVISORY FREQUENCY (CTAF) AND PERFORM VISUAL MONITORING FOR UNSCHEDULED FLIGHTS. THE CONTRACTOR SHALL CLEAR THE RUNWAY ACCORDING TO NOTE 4 FOR ALL ARRIVALS AND DEPARTURES.

6. ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL OPERATE A FLASHING YELLOW BEACON AND 3' X 3' CHECKERED FLAG WITH 1' X 1' ORANGE AND WHITE CHECKS WHEN WORKING ON THE AIRPORT. THE CONTRACTOR'S SAFETY OFFICER VEHICLE SHALL HAVE BOTH A YELLOW FLASHING BEACON AND A SEPARATE VISUAL AND/OR AUDIBLE SIGNAL (E.G., COLORED FLASHING BEACON OTHER THAN YELLOW, MEGAPHONE, AIR HORN, 2-WAY RADIO CONTACT, ETC) USED TO SIGNAL WORKERS TO CLEAR THE AREAS DESCRIBED IN NOTE 4 DURING AIRCRAFT ARRIVALS AND DEPARTURES.

7. KEEP AREAS WITHIN THE RUNWAY OBJECT FREE AREA (ROFA) AND ACTIVE TAXIWAY OBJECT FREE AREA (TOFA) LIMITS CLEAR OF CONSTRUCTION MATERIALS. REMOVE ANY DEBRIS FROM THESE AREAS WITHIN 15 MINUTES OF VERBAL NOTICE FROM THE ENGINEER OR ENGINEER'S REPRESENTATIVE.

8. CLEAR SAFETY AREAS AND OBJECT FREE AREAS AT ANYTIME DIRECTED BY THE ENGINEER.

9. DAMAGE TO FAA FACILITIES INCLUDING POWER DISRUPTION SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE FAA AT THE CONTRACTOR'S EXPENSE.

10. REMOVE MATERIAL STOCKPILES AND EQUIPMENT FROM OBJECT FREE AREAS DURING NON-WORK HOURS.

11. PROVIDE AIRPORT FLAGGERS WHERE CONSTRUCTION ACTIVITY IS CONDUCTED IN CLOSE PROXIMITY TO OPERATING AIRCRAFT AND WHERE THE ENGINEER DETERMINES A FLAGGER IS NECESSARY.

12. CONTRACTOR HAULING OPERATIONS ARE LIMITED TO THE HAUL ROUTES SHOWN ON THE PLANS. FOLLOWING CONSTRUCTION COMPLETION, THE CONTRACTOR IS REQUIRED TO RESTORE THE HAUL ROUTE TO ITS ORIGINAL CONDITION. TEMPORARY ACCESS ROUTES MUST BE REMOVED, AND THE GROUND RESTORED TO ITS ORIGINAL CONDITION.

13. THE CONTRACTOR MUST REPORT ANY SAFETY ISSUES TO THE ENGINEER UPON DISCOVERY. THE CONTRACTOR MUST TAKE IMMEDIATE ACTION TO RESOLVE SAFETY ISSUES AS DIRECTED.

14. IMMEDIATELY REMOVE ALL FOREIGN OBJECT DEBRIS (FOD) FROM ACTIVE SURFACES UPON DISCOVERY OR NOTIFICATION. FAILURE TO REMOVE FOD MAY BE CONSIDERED A SAFETY VIOLATION AS DETERMINED BY THE ENGINEER. STATION ADEQUATE CLEANING EQUIPMENT AT THE JOB SITE FOR IMMEDIATE CLEANUP OF ANY MATERIAL SPILLS ON ALL ACTIVE RUNWAY, TAXIWAY, AND APRON SURFACES.

RUNWAY STATUS CHANGE PROCEDURES

THE CONTRACTOR SHALL NOTIFY FAA (THROUGH THE ENGINEER) AT LEAST 45 DAYS PRIOR TO RUNWAY CLOSURES (PARTIAL OR FULL), RE-OPENING A CLOSED RUNWAY, INTERRUPTING SERVICE OR REMOVING AND DISPLACING A RUNWAY THRESHOLD BY EMAILING AN "AIRPORT SPONSOR STRATEGIC EVENT SUBMISSION FORM", FAA FORM 6000-26 TO 9-AJV-SEC-WSA@FAA.GOV.

FOLLOW THESE PROCEDURES ANY TIME THE STATUS OF THE RUNWAY, TAXIWAY, OR APRON IS TO BE ALTERED.

1. CONTRACTOR NOTIFIES ENGINEER OF UPCOMING CHANGE IN AIRPORT STATUS. PROVIDE 5 DAYS ADVANCE NOTICE.
2. AIRPORT MANAGER FILES NOTAM WITH FAA.
3. CONTRACTOR RECEIVES TENTATIVE APPROVAL TO CHANGE RUNWAY, TAXIWAY, OR APRON STATUS AT A SPECIFIC TIME AND DATE.
4. ON THE DAY OF THE CHANGE IN STATUS, A MEETING IS CONDUCTED WITH ENGINEER TO REVIEW SCHEDULE AND SAFETY PROCEDURES.
5. ENGINEER CLOSES RUNWAY, TAXIWAY, OR APRON TEMPORARILY FOR REQUIRED GRADING AND/OR NEW TEMPORARY MARKINGS, LIGHTING, AND BARRIERS.
6. CONTRACTOR INSTALLS APPROVED TEMPORARY MARKINGS, LIGHTING, AND BARRIERS.
7. ENGINEER INSPECTS AND APPROVES MARKINGS, LIGHTING, AND BARRIERS.
8. CONTRACTOR IS PROVIDED NOTICE TO PROCEED WITH THE WORK.
9. CONTRACTOR CHANGES RUNWAY STATUS TO A NEW CONFIGURATION, OR CHANGES TO PERMANENT STATUS.
10. AIRPORT MANAGER SHALL CANCEL OR REVISE NOTAM WITH FAA WHEN NOTIFIED BY ENGINEER THAT WORK IS COMPLETE.

GENERAL ELECTRICAL NOTES

1. REFER TO SHEET AC1 FOR CONSTRUCTION PHASING SCHEDULE. DURING PHASES 1,2, AND 3 OF CONSTRUCTION. ELECTRICAL WORK WILL BE REQUIRED TO PROVIDE TEMPORARY LIGHTING TO SUPPORT RUNWAY AND TAXIWAY CLOSURES REQUIRED WITHIN THE PROJECT LIMITS FOR EACH PHASE OF WORK.

2. AIRPORT BEACON SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. MINIMUM OF ONE WIND CONE SHALL REMAIN FUNCTIONAL DURING ALL PHASES OF CONSTRUCTION.

3. PROVIDE TEMPORARY LIGHTING AS NECESSARY TO MAINTAIN RUNWAY AND TAXIWAY LIGHTING OPERATIONS UNTIL THE NEW LIGHTING SYSTEM IS INSTALLED AND FULLY OPERATIONAL. MAXIMUM RUNWAY LIGHT SPACING IS 200 FT. MAXIMUM TAXIWAY LIGHT SPACING IS 100 FT. CONTRACTOR MAY UTILIZE BATTERY POWERED TEMPORARY LIGHT FIXTURES, NEW LIGHT FIXTURES, AND/OR EXISTING LIGHT FIXTURES FOR TEMPORARY LIGHTING SYSTEMS. WHERE TEMPORARY CONDUCTORS OR CONDUIT ARE REQUIRED, THEY SHALL BE PER SPECIFICATION L-108 AND L-110 RESPECTIVELY.

4. ONCE TEMPORARY LIGHT SYSTEMS ARE NO LONGER NEEDED AND RUNWAY CLOSURES ARE COMPLETED, THE RUNWAY AND TAXIWAY LIGHTING SYSTEMS SHALL BE TRANSITIONED TO NEW SYSTEM OPERATIONS AND ALL TEMPORARY SYSTEMS REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATION, REPAIR AND/OR REPLACEMENT OF EQUIPMENT AS NEEDED TO BRING AIRFIELD SYSTEMS INTO NORMAL OPERATIONAL PARAMETERS DURING THIS EFFORT.

Designed By:	LDO				
Drawn By:	RJB				
Checked By:	PWC				
Date Revised:	1/24/2024, 7:15 AM				
Layout Name:	CSPP Notes				
File Path and Name:	W:\Projects\Nightmute Nightmute imp 00572\Civil\Planset\00572-CSPP.dwg				

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
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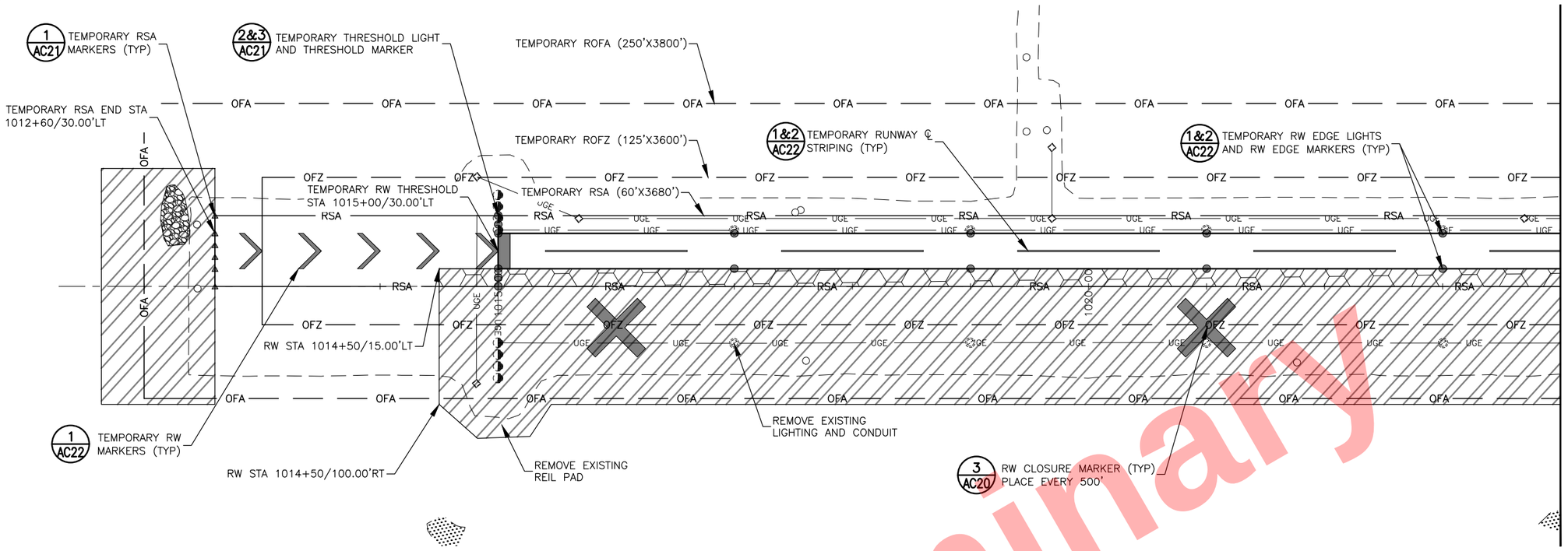
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP NOTES

DATE: 01/24/2024

SHEET: AC2 OF AC23



COMPLETE THE FOLLOWING PRIOR TO PHASE 1 CONSTRUCTION:

- COORDINATE THROUGH THE ENGINEER 45 DAYS PRIOR TO CONSTRUCTION TO ISSUE A NOTAM FOR HALF WIDTH OPERATION OF THE RW AND TW AND OTHER NOTAMS AS REQUIRED.
- REMOVE EXISTING LIGHTING FIXTURES THAT ARE WITHIN THE PHASE 1 TEMPORARY RW AND TW LIMITS AND BLIND FLANGE THE LIGHT BASES. COVER WITH CASC AND COMPACT THESE AREAS SUCH THAT BASES CAN SUPPORT AIRCRAFT TRAFFIC AND DO NOT PRESENT A HAZARD TO AIRCRAFT DURING REDUCED–WIDTH OPERATIONS
- GRADE THE TEMPORARY RW ACCORDING TO DETAIL 1, SHEET AC23
- GRADE THE TEMPORARY TW SMOOTH AND COMPACT WITH A 2% MAXIMUM GRADE IN ANY DIRECTION
- INSTALL TEMPORARY MARKINGS AND LIGHTING, SEE AC21
- INSTALL HAZARD MARKER BARRIERS (SEE NOTE 1)
- INSTALL BMP'S PER CONTRACTORS APPROVED SWPPP
- COVER TEMPORARY LIGHTING CONDUIT WITH CASC IN AIRCRAFT TEMPORARY TURNAROUND AREAS AND AT AREAS WHERE HAULING OPERATIONS CROSS THE CONDUIT TO AVOID DAMAGE TO THE CONDUIT

COMPLETE THE FOLLOWING DURING PHASE 1 CONSTRUCTION:

- REMOVE EXISTING LIGHTING AND CONDUITS WITHIN PHASE 1 LIMITS
- REHABILITATE EXISTING RW AND RSA WITHIN PHASE 1 LIMITS
- CONSTRUCT RSA EXTENSION AND EXPANSION WITHIN PHASE 1 LIMITS
- CONSTRUCT TEMPORARY TAXIWAY EXPANSION WITHIN PHASE 1 LIMITS
- REHABILITATE PRIMARY WIND CONE AND AWOS PAD ACCESS WITHIN PHASE 1 LIMITS
- INSTALL PRIMARY WIND CONE
- REHABILITATE SEGMENTED CIRCLE
- INSTALL PERMANENT LIGHT CAN BASES AND CONDUIT WITHIN PHASE 1 LIMITS, BLIND FLANGE LIGHT BASES, COVER WITH CASC, GRADE AND COMPACT THESE AREAS SUCH THAT BASES CAN SUPPORT AIRCRAFT TRAFFIC AND DO NOT PRESENT A HAZARD TO AIRCRAFT OPERATIONS DURING PHASE 2A AND 2B HALF–WIDTH OPERATIONS.

COMPLETE THE FOLLOWING AFTER PHASE 1 CONSTRUCTION:

- SEED OR TOPSOIL AND SEED WITHIN PHASE 1 LIMITS PER CONSTRUCTION PLANS
- REMOVE BMP'S
- COORDINATE THROUGH THE ENGINEER TO UPDATE NOTAMS FOR PARTIAL CLOSURE OF RW 03/21

NOTES:

1. HAZARD MARKER BARRIERS SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS, OR ADJUSTMENTS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.
2. EVACUATE PERSONNEL AND EQUIPMENT FROM AREAS DESCRIBED IN NOTE 4 ON SHEET AC2 DURING AIRCRAFT OPERATIONS.
3. THE RW AND TW MUST NOT BE LEFT IN A HALF–WIDTH CONFIGURATION AT THE END OF THE CONSTRUCTION SEASON. FULL WIDTH RW AND TW MUST BE AVAILABLE FOR AIRCRAFT OPERATIONS AT THE END OF THE CONSTRUCTION SEASON.

SHEET LEGEND

PHASE 1

CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS

TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER

RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION	

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 1

DATE: 01/24/2024

SHEET: AC3 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/24/2024, 7:15 AM
File Path and Names: Phase 1–1
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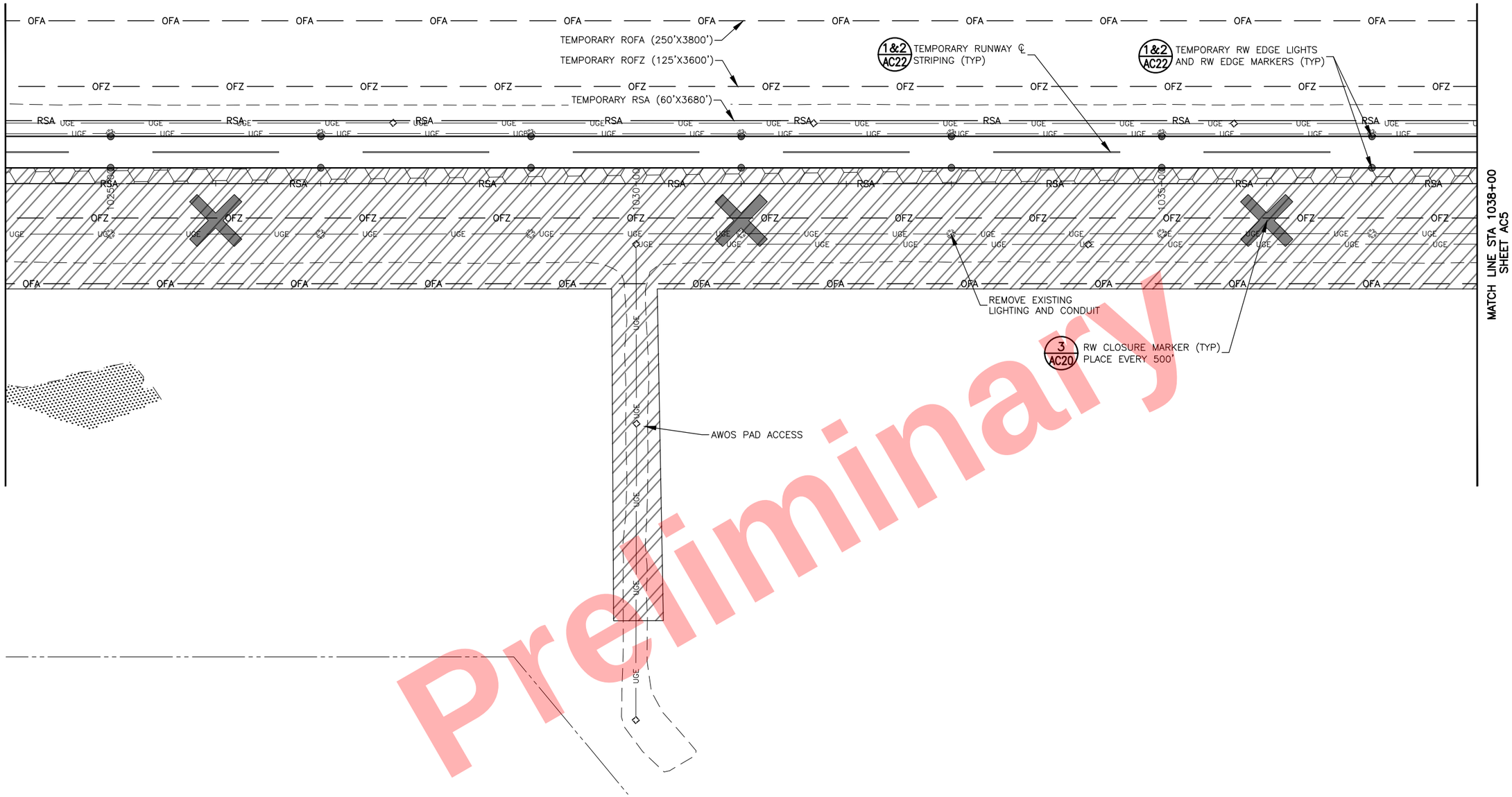

SHEET LEGEND

- PHASE 1
- CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS
- TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER
- RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 1

DATE: 01/24/2024
SHEET: AC4 OF AC23

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Drawn By: RJB
Checked By: PWC

Date Revised: 1/24/2024, 7:15 AM
Layout Name: Phase 1-2
File Path and Names: W:\Projects\Nightmute\Nightmute Imp. 00572\Civ3D\Planset\00572-CSPP.dwg

TOKSOOK RIVER

CONTRACTOR STAGING/STOCKPILE AREA

6+00

4+00

HAZARD MARKER BARRIER 4 AC20

3 AC21 TEMPORARY TW EDGE MARKERS (TYP)

TEMPORARY TOFA (124' WIDE)

TEMPORARY TSA (65' WIDE)

50.00 TYP

TEMPORARY ROFA (250'X3800')

1&2 AC22 TEMPORARY RUNWAY ℄ STRIPING (TYP)

TEMPORARY ROFZ (125'X3600')

TEMPORARY RW EDGE LIGHTS AND RW EDGE MARKERS (TYP) 1&2 AC22

TEMPORARY RSA (60'X3680')

TEMPORARY THRESHOLD LIGHT AND THRESHOLD MARKER 2&3 AC21

TEMPORARY RW THRESHOLD STA 1047+00/30.00'LT

RW STA 1048+25/15.00'LT

TEMPORARY RSA END STA 1049+40/30.00'LT

TEMPORARY RW MARKERS (TYP) 2 AC22

RW STA 1048+25/100.00'RT

REMOVE EXISTING LIGHTING AND CONDUIT

REMOVE EXISTING REIL PAD

3 AC20 RW CLOSURE MARKER (TYP) PLACE EVERY 500'

DISPOSAL/CONTRACTOR STAGING/STOCKPILE AREA

MATCH LINE STA 1038+00 SHEET AC4

1040+00

1045+00

2+00

1050+00

OFA OFZ RSA TOFA TSA UGE

SHEET LEGEND

- PHASE 1
- CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS
- CONSTRUCTION BARGE LANDING
- HAZARD MARKER BARRIER
- TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER
- TEMPORARY TW EDGE, RW EDGE, OR RSA END MARKER
- CONSTRUCTION RIPRAP REVETMENT
- RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 1

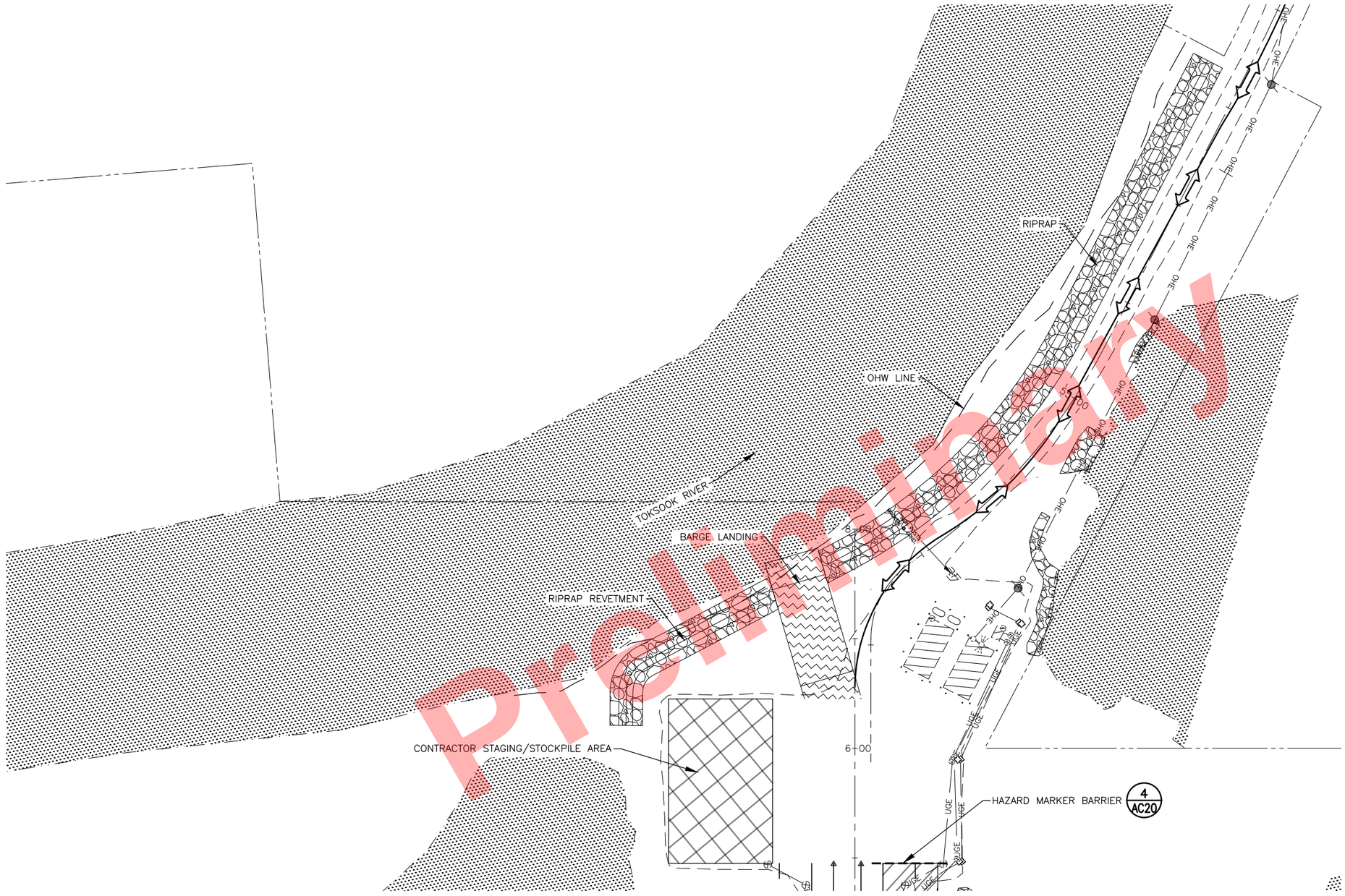
DATE: 01/24/2024

SHEET: AC5 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/24/2024, 7:15 AM Phase 1-3A
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D Planset\00572-CSPP.dwg

Designed By:	LDO
Drawn By:	RJB
Checked By:	PWC
Date Revised:	1/24/2024, 7:15 AM
Layout Name:	Phase 1-3B
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp 00572\Civ3D\Planset\00572-CSPP.dwg



SHEET LEGEND

- PHASE 1
- CONSTRUCTION BARGE LANDING
- CONSTRUCTION RIPRAP REVETMENT
- HAZARD MARKER BARRIER
- TEMPORARY TW EDGE, RW EDGE, OR RSA END MARKER

50' 25' 0 50' 100'

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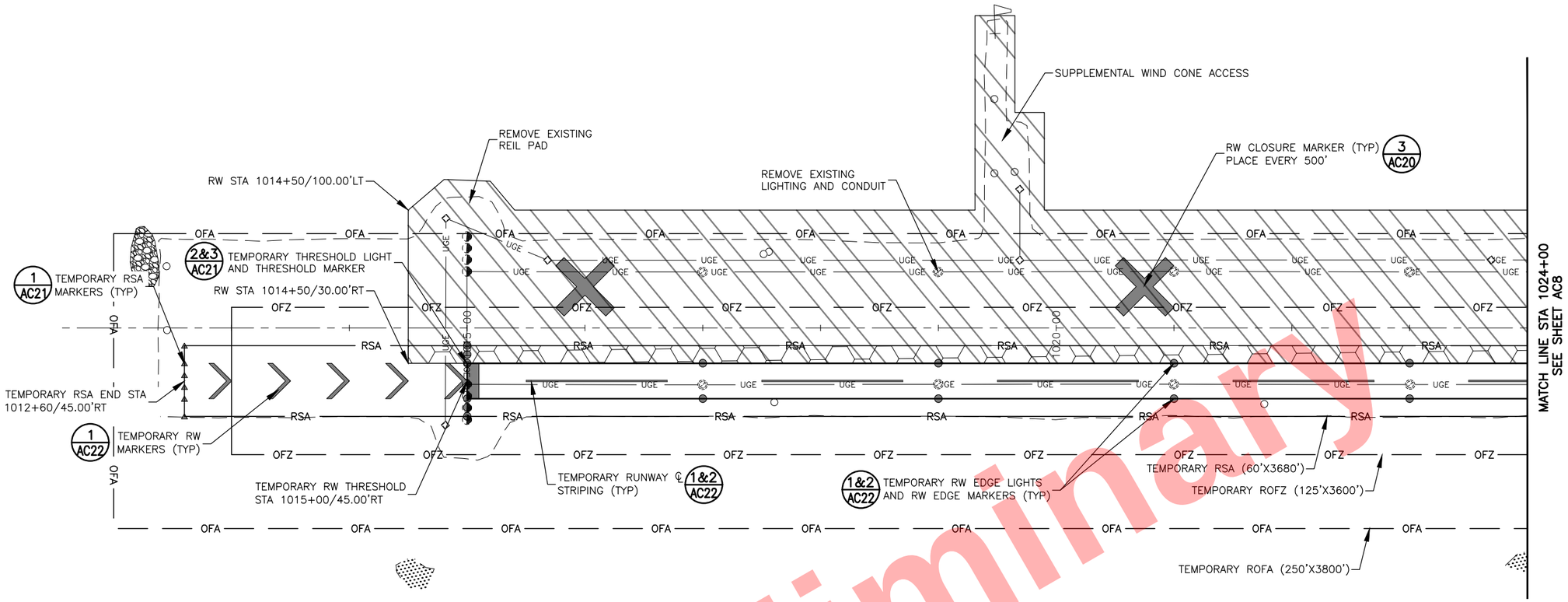
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 1

DATE: 01/24/2024

SHEET: AC6 OF AC23



COMPLETE THE FOLLOWING PRIOR TO PHASE 2A CONSTRUCTION:

- COORDINATE THROUGH THE ENGINEER 45 DAYS PRIOR TO CONSTRUCTION TO ISSUE A NOTAM FOR HALF WIDTH OPERATION OF THE RW AND TW AND OTHER NOTAMS AS REQUIRED.
- REMOVE EXISTING LIGHTING FIXTURES THAT ARE WITHIN THE PHASE 2A TEMPORARY RW AND TW LIMITS AND BLIND FLANGE THE LIGHT BASES. COVER WITH CASC AND COMPACT THESE AREAS SUCH THAT BASES CAN SUPPORT AIRCRAFT TRAFFIC AND DO NOT PRESENT A HAZARD TO AIRCRAFT DURING REDUCED–WIDTH OPERATIONS
- GRADE A TRANSITION BETWEEN THE TEMPORARY TW AND THE TEMPORARY RUNWAY THAT IS SMOOTH AND COMPACT WITH A 3% MAXIMUM LONGITUDINAL GRADE.
- INSTALL TEMPORARY MARKINGS AND LIGHTING, SEE AC22
- INSTALL HAZARD MARKER BARRIERS (SEE NOTE 1)
- INSTALL BMP'S PER CONTRACTORS APPROVED SWPPP
- COVER TEMPORARY LIGHTING CONDUIT WITH CASC IN AIRCRAFT TEMPORARY TURNAROUND AREAS AND AT AREAS WHERE HAULING OPERATIONS CROSS THE CONDUIT TO AVOID DAMAGE TO THE CONDUIT

COMPLETE THE FOLLOWING DURING PHASE 2A CONSTRUCTION:

- REMOVE EXISTING LIGHTING AND CONDUITS WITHIN PHASE 2A LIMITS
- REHABILITATE EXISTING RW AND RSA WITHIN PHASE 2A LIMITS
- CONSTRUCT RSA EXPANSION WITHIN PHASE 2A LIMITS
- REHABILITATE SECONDARY WIND CONE ACCESS WITHIN PHASE 2A LIMITS
- INSTALL SECONDARY WIND CONE
- INSTALL PERMANENT LIGHT CAN BASES AND CONDUIT WITHIN PHASE 2A LIMITS, INSTALL PERMANENT FIXTURES FOR LIGHTS THAT DO NOT PRESENT A HAZARD FOR AIRCRAFT OPERATIONS DURING PHASE 2B AND 3 OPERATIONS, FOR ALL OTHERS, BLIND FLANGE LIGHT BASES, COVER WITH CASC, GRADE AND COMPACT THESE AREAS SUCH THAT BASES CAN SUPPORT AIRCRAFT TRAFFIC AND DO NOT PRESENT A HAZARD.

COMPLETE THE FOLLOWING AFTER PHASE 2A CONSTRUCTION:

- SEED OR TOPSOIL AND SEED WITHIN PHASE 2A LIMITS PER CONSTRUCTION PLANS
- REMOVE BMP'S
- COORDINATE THROUGH THE ENGINEER TO UPDATE NOTAMS FOR PARTIAL CLOSURE OF RW 03/21

NOTES:

1. HAZARD MARKER BARRIERS SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS, OR ADJUSTMENTS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.
2. EVACUATE PERSONNEL AND EQUIPMENT FROM AREAS DESCRIBED IN NOTE 4 ON SHEET AC2 DURING AIRCRAFT OPERATIONS.
3. THE RW AND TW MUST NOT BE LEFT IN A HALF–WIDTH CONFIGURATION AT THE END OF THE CONSTRUCTION SEASON. FULL WIDTH RW AND TW MUST BE AVAILABLE FOR AIRCRAFT OPERATIONS AT THE END OF THE CONSTRUCTION SEASON.

SHEET LEGEND

PHASE 1

CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS

TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER

RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

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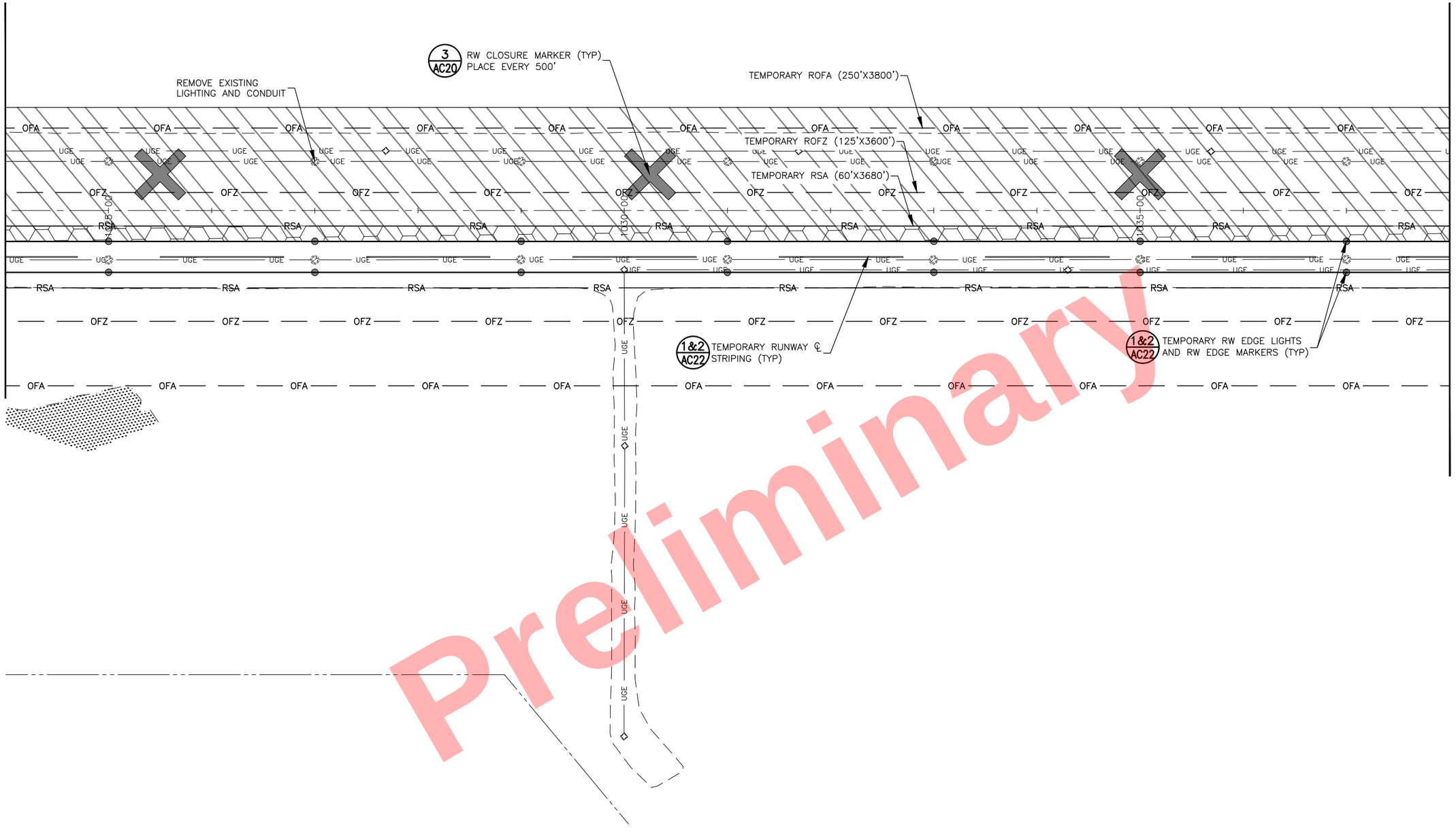
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 2A

DATE: 01/24/2024

SHEET: AC7 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised: 1/24/2024, 7:15 AM
Layout Name: Phase 2A-1
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civil\Planset\00572-CSPP.dwg



SHEET LEGEND

PHASE 1

CONSTRUCTION PROHIBITED
DURING AIRCRAFT OPERATIONS

TEMPORARY RW EDGE LIGHT &
RW EDGE MARKER/TEMPORARY
THRESHOLD LIGHT &
THRESHOLD MARKER

RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

STATE OF ALASKA
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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 2A

DATE: 01/24/2024

SHEET: AC8 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/24/2024, 7:15 AM Phase 2A-2
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civ30\Planset\00572-CSPP.dwg

CONTRACTOR STAGING/STOCKPILE AREA

HAZARD MARKER BARRIER (4/AC20)

TEMPORARY TW EDGE MARKERS (TYP) (3/AC21)

TEMPORARY TOFA (124' WIDE)

TEMPORARY TSA (65' WIDE)

50.00 TYP.

REMOVE EXISTING LIGHTING AND CONDUIT

(3/AC20) RW CLOSURE MARKER (TYP) PLACE EVERY 500'

TEMPORARY ROFA (250'X3800')

TEMPORARY ROFZ (125'X3600')

TEMPORARY RSA (60'X3680')

TEMPORARY RW THRESHOLD STA 1047+00/45.00'RT

TEMPORARY RSA END STA 1049+40/45.00'RT

RW STA 1014+50/30.00'RT

TEMPORARY RW EDGE LIGHTS AND RW EDGE MARKERS (TYP) (1&2/AC22)

TEMPORARY THRESHOLD LIGHT AND THRESHOLD MARKER (2&3/AC21)

TEMPORARY RW MARKERS (TYP) (2/AC22)

(1&2/AC22) TEMPORARY RUNWAY ℄ STRIPING (TYP)

DISPOSAL/CONTRACTOR STAGING/STOCKPILE AREA

MATCH LINE STA 1038+00 THIS SHEET

Preliminary

SHEET LEGEND

- PHASE 1
- CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS
- HAZARD MARKER BARRIER
- TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER
- TEMPORARY TW EDGE, RW EDGE, OR RSA END MARKER
- RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

STATE OF ALASKA
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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 2A

DATE: 01/24/2024

SHEET: AC9 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/24/2024, 7:16 AM
File Path and Name: Phase 2A-3
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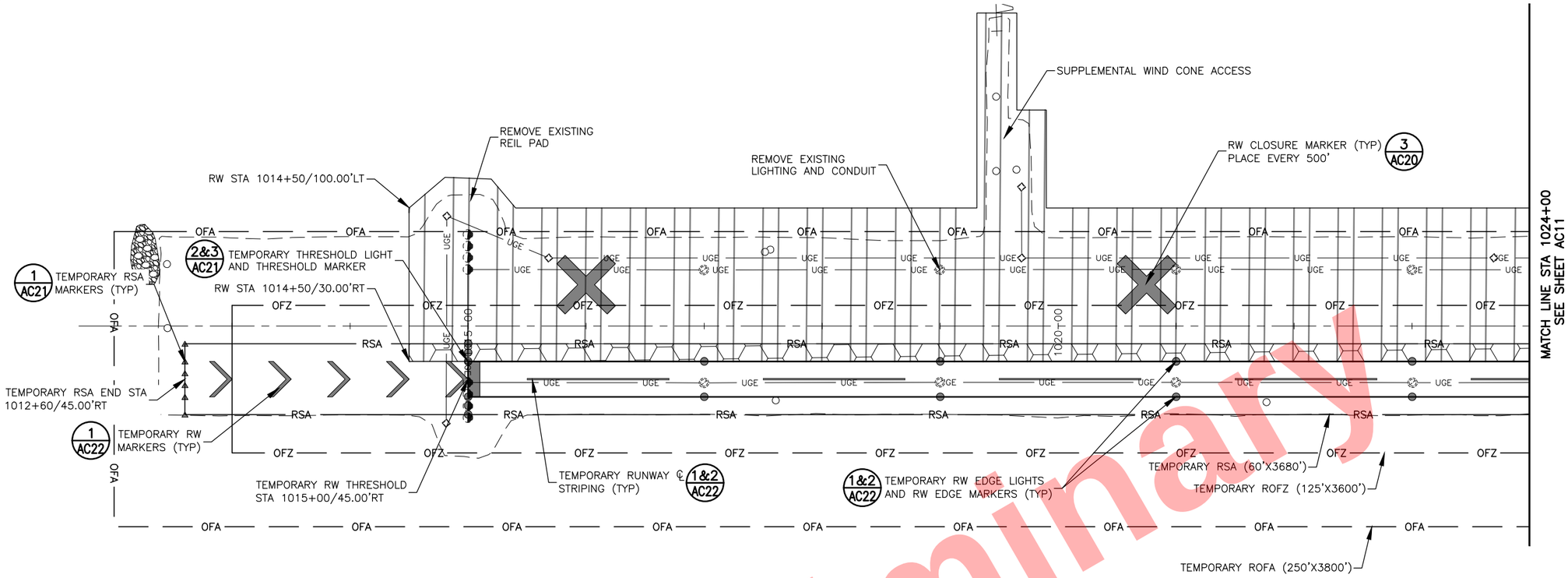

COMPLETE THE FOLLOWING PRIOR TO PHASE 2B CONSTRUCTION:

- COORDINATE THROUGH THE ENGINEER 45 DAYS PRIOR TO CONSTRUCTION TO ISSUE A NOTAM FOR HALF WIDTH OPERATION OF THE RW AND TW AND OTHER NOTAMS AS REQUIRED.
- INSTALL TEMPORARY MARKINGS AND LIGHTING, SEE AC22
- INSTALL HAZARD MARKER BARRIERS (SEE NOTE 1)
- INSTALL BMP'S PER CONTRACTORS APPROVED SWPPP
- COVER TEMPORARY LIGHTING CONDUIT WITH CASC IN AIRCRAFT TEMPORARY TURNAROUND AREAS AND AT AREAS WHERE HAULING OPERATIONS CROSS THE CONDUIT TO AVOID DAMAGE TO THE CONDUIT

COMPLETE THE FOLLOWING DURING PHASE 2B CONSTRUCTION:

- REMOVE EXISTING LIGHTING AND CONDUITS WITHIN PHASE 2B LIMITS
- REHABILITATE EXISTING RW AND RSA WITHIN PHASE 2B LIMITS
- CONSTRUCT RSA EXPANSION WITHIN PHASE 2B LIMITS
- REHABILITATE SECONDARY WIND CONE ACCESS WITHIN PHASE 2B LIMITS
- INSTALL SECONDARY WIND CONE
- INSTALL PERMANENT LIGHT CAN BASES AND CONDUIT WITHIN PHASE 2B LIMITS, INSTALL PERMANENT FIXTURES FOR LIGHTS THAT DO NOT PRESENT A HAZARD FOR AIRCRAFT OPERATIONS DURING PHASE 2B AND 3 OPERATIONS, FOR ALL OTHERS, BLIND FLANGE LIGHT BASES, COVER WITH CASC, GRADE AND COMPACT THESE AREAS SUCH THAT BASES CAN SUPPORT AIRCRAFT TRAFFIC AND DO NOT PRESENT A HAZARD.

COMPLETE THE FOLLOWING AFTER PHASE 2B CONSTRUCTION:

- SEED OR TOPSOIL AND SEED WITHIN PHASE 2B LIMITS PER CONSTRUCTION PLANS
- REMOVE BMP'S
- COORDINATE THROUGH THE ENGINEER TO UPDATE NOTAMS FOR PARTIAL CLOSURE OF RW 03/21

NOTES:

1. HAZARD MARKER BARRIERS SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS, OR ADJUSTMENTS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.
2. EVACUATE PERSONNEL AND EQUIPMENT FROM AREAS DESCRIBED IN NOTE 4 ON SHEET AC2 DURING AIRCRAFT OPERATIONS.
3. THE RW AND TW MUST NOT BE LEFT IN A HALF-WIDTH CONFIGURATION AT THE END OF THE CONSTRUCTION SEASON. FULL WIDTH RW AND TW MUST BE AVAILABLE FOR AIRCRAFT OPERATIONS AT THE END OF THE CONSTRUCTION SEASON.

SHEET LEGEND

PHASE 1

CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS

TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER

RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

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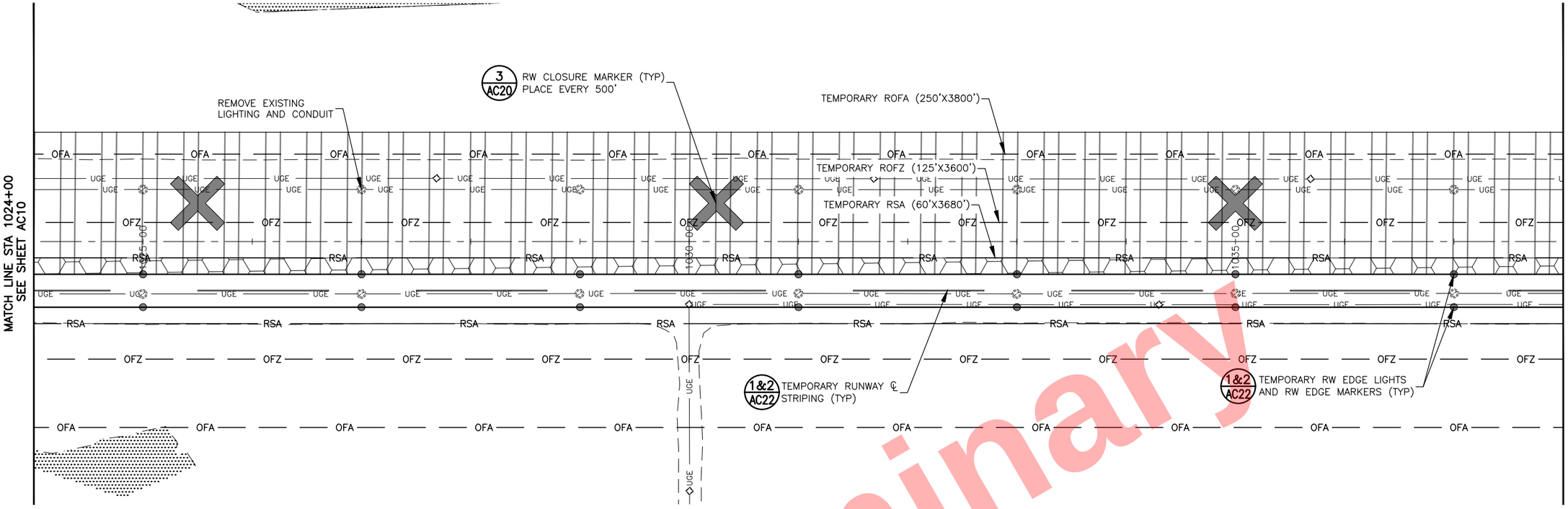
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 2B

DATE: 01/24/2024

SHEET: AC10 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised: 1/24/2024, 7:16 AM
Layout Name: Phase 2B-1
File Path and Name: W:\Projects\Nightmute Nightmute Imp 00572\Civil\30\Planset\00572-CSPP.dwg



SHEET LEGEND

PHASE 1

CONSTRUCTION PROHIBITED
DURING AIRCRAFT OPERATIONS

TEMPORARY RW EDGE LIGHT &
RW EDGE MARKER/TEMPORARY
THRESHOLD LIGHT &
THRESHOLD MARKER

RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 2B

DATE: 01/24/2024

SHEET: AC11 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised: 1/24/2024, 7:16 AM
Layout Name: Phase 2B-2
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civil30\Planset\00572-CSPP.dwg

CONTRACTOR STAGING/STOCKPILE AREA

HAZARD MARKER BARRIER (4/AC20)

TEMPORARY TW EDGE MARKERS (TYP) (3/AC21)

TEMPORARY TOFA (124' WIDE)

TEMPORARY TSA (65' WIDE)

50.00 TYP.

REMOVE EXISTING LIGHTING AND CONDUIT

(3/AC20) RW CLOSURE MARKER (TYP) PLACE EVERY 500'

TEMPORARY ROFA (250'X3800')

TEMPORARY ROFZ (125'X3600')

TEMPORARY RSA (60'X3680')

REMOVE EXISTING REIL PAD

RW STA 1048+25/100.00'LT

TEMPORARY RW THRESHOLD STA 1047+00/45.00'RT

RW STA 1048+25/30.00'RT

TEMPORARY RSA END STA 1049+40/45.00'RT

RW STA 1045+35.5/30.00'RT

RW STA 1045+80.5/30.00'RT

TEMPORARY RW EDGE LIGHTS AND RW EDGE MARKERS (TYP) (1&2/AC22)

TEMPORARY THRESHOLD LIGHT AND THRESHOLD MARKER (2&3/AC21)

TEMPORARY RW MARKERS (TYP) (2/AC22)

(1&2/AC22) TEMPORARY RUNWAY ℄ STRIPING (TYP)

DISPOSAL/CONTRACTOR STAGING/STOCKPILE AREA

MATCH LINE STA 1038+00
SEE SHEET AC11

OFA OFZ RSA TOFA TSA UGE

SHEET LEGEND

- PHASE 1
- CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS
- HAZARD MARKER BARRIER
- TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER
- TEMPORARY TW EDGE, RW EDGE, OR RSA END MARKER
- RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

Designed By:	LDO
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/24/2024, 7:16 AM
Layout Name:	Phase 2B-3
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp 00572\Civ30\Planset\00572-CSPP.dwg

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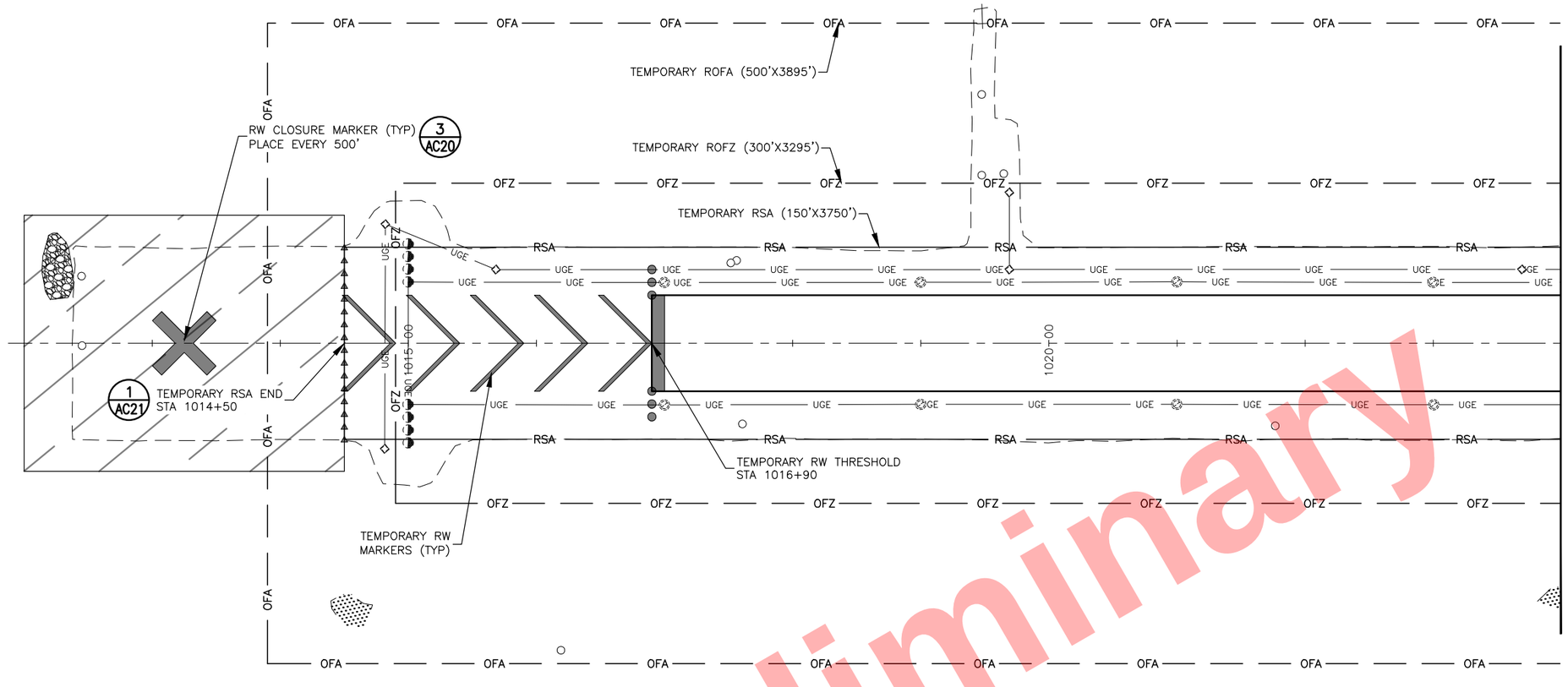
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 2B

DATE: 01/24/2024

SHEET: AC12 OF AC23



COMPLETE THE FOLLOWING PRIOR TO PHASE 3 CONSTRUCTION:

- COORDINATE THROUGH THE ENGINEER 45 DAYS PRIOR TO CONSTRUCTION TO ISSUE A NOTAM FOR PARTIAL CLOSURE OPERATION OF THE RW AND TW AND OTHER NOTAMS AS REQUIRED.
- INSTALL TEMPORARY MARKINGS AND LIGHTING, SEE AC22
- INSTALL HAZARD MARKER BARRIERS (SEE NOTE 1)
- INSTALL BMP'S PER CONTRACTORS APPROVED SWPPP
- COVER TEMPORARY LIGHTING CONDUIT WITH CASC IN AIRCRAFT TEMPORARY TURNAROUND AREAS AND AT AREAS WHERE HAULING OPERATIONS CROSS THE CONDUIT TO AVOID DAMAGE TO THE CONDUIT

COMPLETE THE FOLLOWING DURING PHASE 3 CONSTRUCTION:

- REHABILITATE EXISTING RSA WITHIN PHASE 3 LIMITS
- CONSTRUCT RSA EXTENSION AND EXPANSION WITHIN PHASE 3 LIMITS

COMPLETE THE FOLLOWING AFTER PHASE 3 CONSTRUCTION:

- INSTALL REMAINING LIGHT FIXTURES
- SEED OR TOPSOIL AND SEED WITHIN PHASE 3 LIMITS PER CONSTRUCTION PLANS
- REMOVE BMP'S
- COORDINATE THROUGH THE ENGINEER TO CANCEL NOTAMS FOR PARTIAL CLOSURE OF RW 03/21 AND TW

NOTES:

1. HAZARD MARKER BARRIERS SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS, OR ADJUSTMENTS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.
2. EVACUATE PERSONNEL AND EQUIPMENT FROM AREAS DESCRIBED IN NOTE 4 ON SHEET AC2 DURING AIRCRAFT OPERATIONS.

SHEET LEGEND

PHASE 1

CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS

TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER

RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

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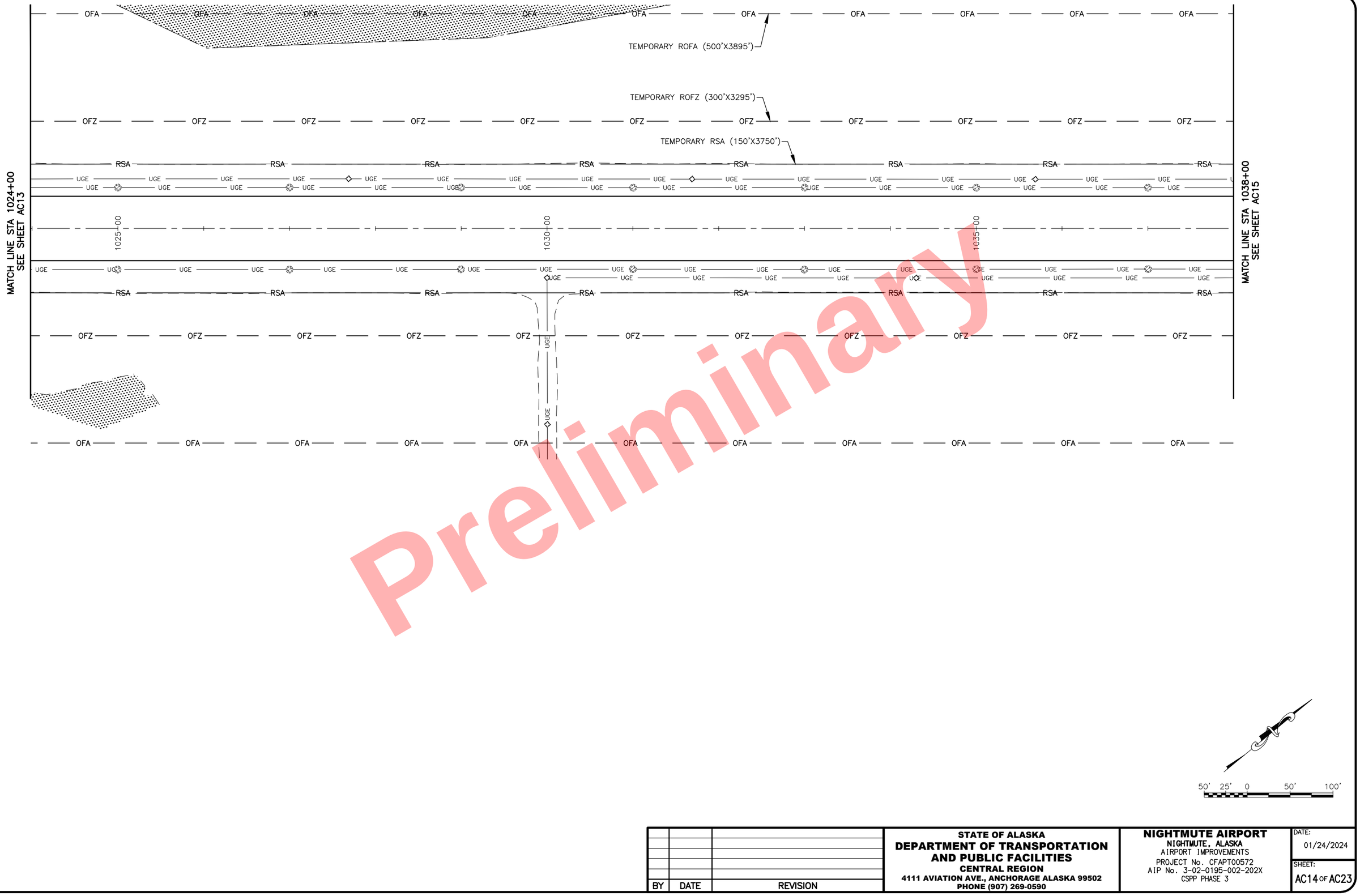
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 3

DATE: 01/24/2024

SHEET: AC13 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/24/2024, 7:16 AM
File Path and Name: Phase 3-1
W:\Projects\Nightmute\Nightmute Imp 00572\Civil30\Planset\00572-CSPP.dwg



50' 25' 0 50' 100'

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AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 3

DATE: 01/24/2024

SHEET: AC14 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/24/2024, 7:16 AM
Phase 3-2
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D\Planset\00572-CSPP.dwg

CONTRACTOR STAGING/STOCKPILE AREA

TEMPORARY TOFA (124' WIDE)

TEMPORARY TSA (74' WIDE)

TEMPORARY ROFA (500'X3895')

TEMPORARY ROFZ (300'X3295')

TEMPORARY RSA (150'X3750')

50.00 TYP

HAZARD MARKER BARRIER (4/AC20)

TEMPORARY TW EDGE MARKERS (TYP) (3/AC21)

TEMPORARY RW THRESHOLD STA 1045+85

TEMPORARY RSA END STA 1048+25 (1/AC21)

TEMPORARY RW MARKERS (TYP) (5/AC21)

RW CLOSURE MARKER (TYP) PLACE EVERY 500' (3/AC20)

DISPOSAL/CONTRACTOR STAGING/STOCKPILE AREA

MATCH LINE STA 1038+00 SEE SHEET AC14

6+00 4+00 2+00 1040+00 1045+00 1050+00

OFA OFZ RSA UGE

SHEET LEGEND

- PHASE 1
- CONSTRUCTION PROHIBITED DURING AIRCRAFT OPERATIONS
- HAZARD MARKER BARRIER
- TEMPORARY RW EDGE LIGHT & RW EDGE MARKER/TEMPORARY THRESHOLD LIGHT & THRESHOLD MARKER
- TEMPORARY TW EDGE, RW EDGE, OR RSA END MARKER
- RUNWAY CLOSURE MARKER

50' 25' 0 50' 100'

BY	DATE	REVISION

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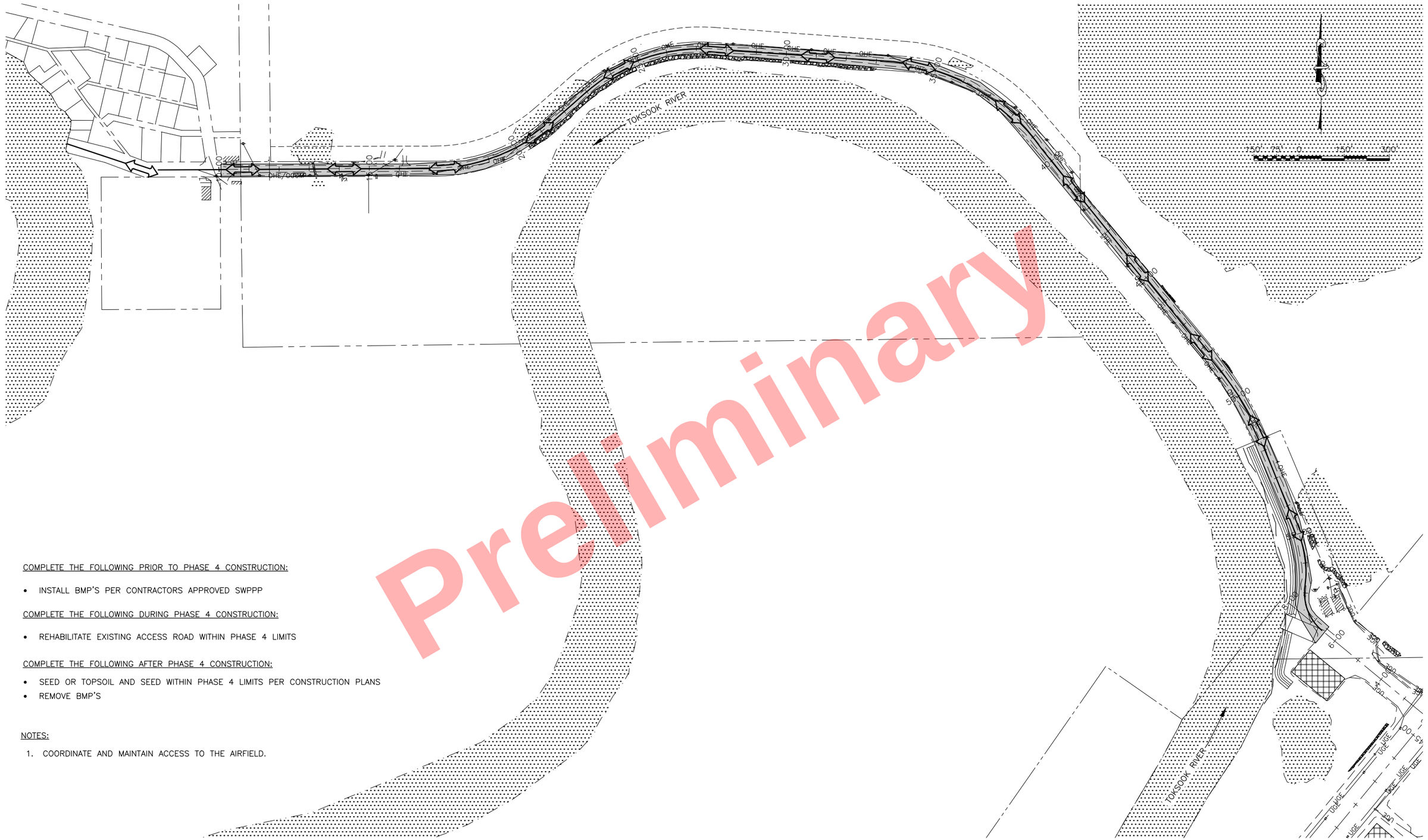
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 3

DATE: 01/24/2024

SHEET: AC15 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: Phase 3-3
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civ3D\Planset\00572-CSPP.dwg 1/24/2024, 7:16 AM



COMPLETE THE FOLLOWING PRIOR TO PHASE 4 CONSTRUCTION:

- INSTALL BMP'S PER CONTRACTORS APPROVED SWPPP

COMPLETE THE FOLLOWING DURING PHASE 4 CONSTRUCTION:

- REHABILITATE EXISTING ACCESS ROAD WITHIN PHASE 4 LIMITS

COMPLETE THE FOLLOWING AFTER PHASE 4 CONSTRUCTION:

- SEED OR TOPSOIL AND SEED WITHIN PHASE 4 LIMITS PER CONSTRUCTION PLANS
- REMOVE BMP'S

NOTES:

1. COORDINATE AND MAINTAIN ACCESS TO THE AIRFIELD.

Designed By:	LDO
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/24/2024, 7:16 AM
Layout Name:	Phase 4
File Path and Name:	W:\Projects\Nightmute\Nightmute imp 00572\Civ3D\Plonset\00572-CSPP.dwg

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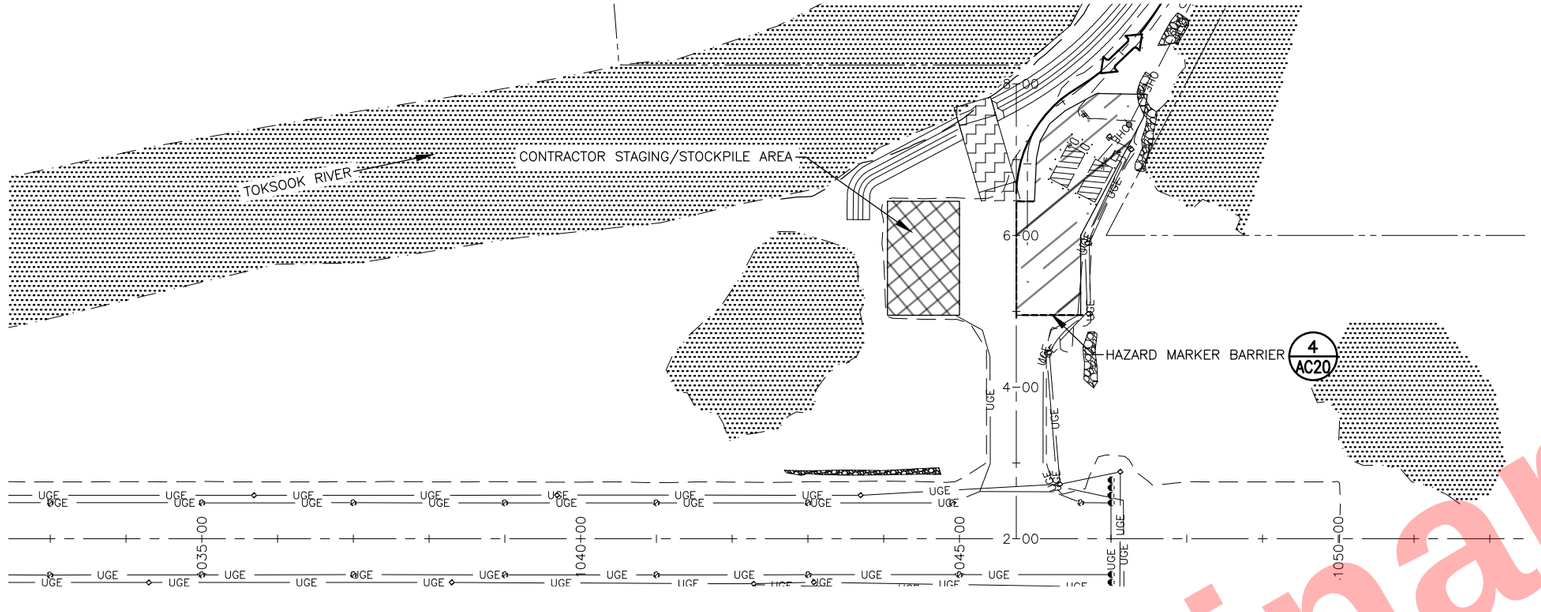
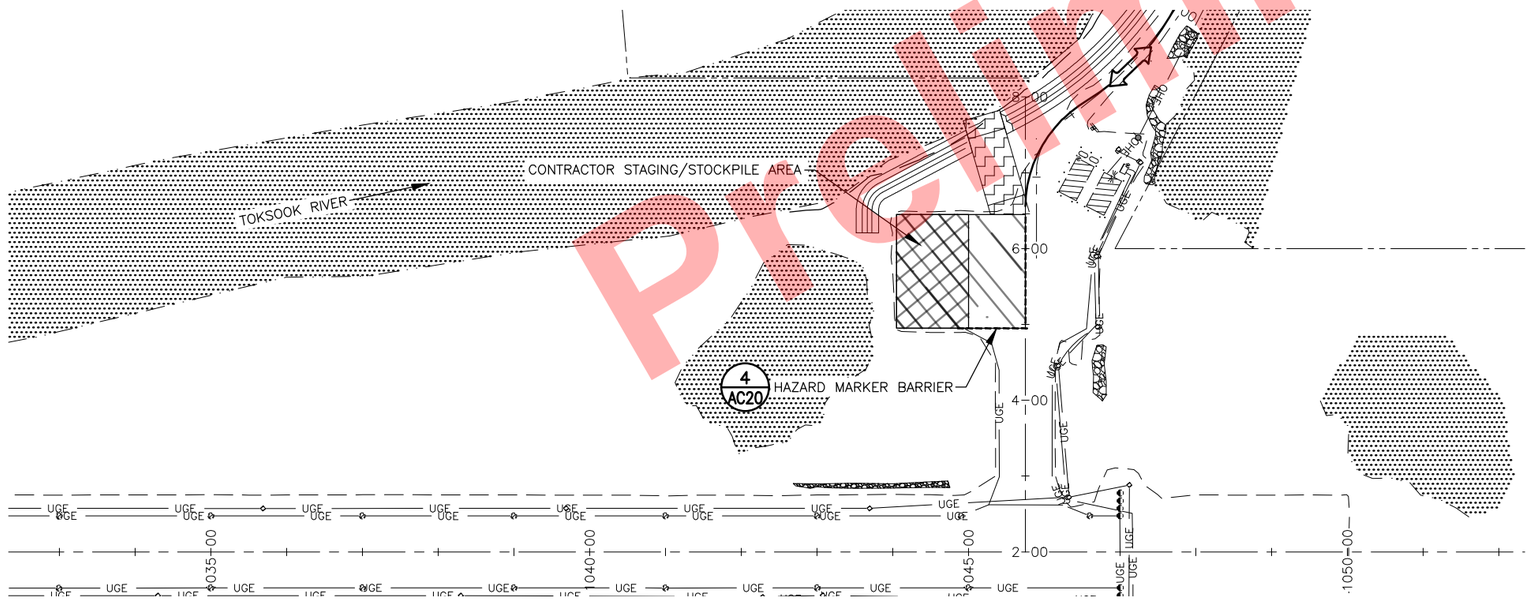
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 4

DATE: 01/24/2024



1 AC17 CSPP PHASE 5A



2 AC17 CSPP PHASE 5B

COMPLETE THE FOLLOWING PRIOR TO PHASE 5 CONSTRUCTION:

- INSTALL HAZARD MARKER BARRIERS (SEE NOTE 1)
- INSTALL BMP'S PER CONTRACTORS APPROVED SWPPP

COMPLETE THE FOLLOWING DURING PHASE 5A CONSTRUCTION:

- REHABILITATE EXISTING APRON
- RELEVEL EXISTING SREB
- CONSTRUCT DRAINAGE SWALES
- INSTALL TIE DOWN
- INSTALL TIP DOWN POLE AND ROTATING BEACON
- INSTALL SIGNAGE WITHIN PHASE 5A LIMITS

COMPLETE THE FOLLOWING DURING PHASE 5B CONSTRUCTION:

- REHABILITATE EXISTING APRON
- INSTALL TIE DOWNS
- INSTALL SIGNAGE WITHIN PHASE 5B LIMITS

COMPLETE THE FOLLOWING AFTER PHASE 5 CONSTRUCTION:

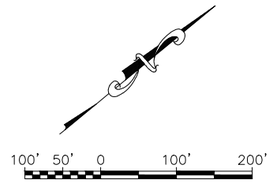
- REMOVE HAZARD MARKERS
- SEED OR TOPSOIL AND SEED WITHIN PHASE 5 LIMITS PER CONSTRUCTION PLANS
- REMOVE BMP'S

NOTES:

1. HAZARD MARKER BARRIERS SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS, OR ADJUSTMENTS MAY BE REQUIRED. RELOCATE BARRIERS AS DIRECTED BY THE ENGINEER.
2. EVACUATE PERSONNEL AND EQUIPMENT FROM AREAS DESCRIBED IN NOTE 4 ON SHEET AC2 DURING AIRCRAFT OPERATIONS.
3. COORDINATE AND MAINTAIN ACCESS TO THE ACTIVE APRON DURING CONSTRUCTION.
4. AIRFIELD LIGHTING MUST BE MAINTAINED WHEN RELEVELING THE SREB.

PHASE 5A ELECTRICAL NOTES:

1. CONTRACTOR SHALL COMPLETE NEW ELECTRICAL SERVICE WORK PRIOR TO, OR IN CONJUNCTION WITH PHASE 5A OF CONSTRUCTION. COORDINATE SERVICE WORK WITH ALASKA VILLAGE ELECTRIC COOPERATIVE (AVEC).
2. SREB #1 AND SREB #2 FEATURE GROUND RING AROUND PERIMETER OF EACH BUILDING, WITH GROUND RODS AT EACH CORNER OF EACH BUILDING. BUILDINGS ARE BONDED TO GROUND RING UTILIZING #2 AWG BARE COPPER CONDUCTOR. SERVICE EQUIPMENT IS ALSO BONDED TO GROUND RING.
3. CONTRACTOR SHALL DISCONNECT SREB #2 FROM GROUND RING PRIOR TO RELOCATING BUILDING. PROTECT GROUND RING TO THE MAXIMUM EXTENT PRACTICAL DURING CONSTRUCTION FOR RECONNECTION TO SREB #2 AFTER RELEVELING WORK IS COMPLETE. WHERE GROUND RING CANNOT BE PROTECTED OR MUST BE DEMOLISHED, CONTRACTOR SHALL SEVER BONDS TO EEB AND SREB #1 GROUND RINGS AND PROVIDE REPAIRS OR NEW GROUND RING FOR SREB #2 TO MATCH EEB GROUND RING (SEE E11 CONSTRUCTION NOTE 3).
4. REFER TO SHEET E11 FOR ADDITIONAL INFORMATION.



Designed By:	LDO	
Drawn By:	RJB	
Checked By:	PWC	
Date Revised:	1/24/2024, 7:16 AM	
Layout Name:	Phase 5A & 5B	
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D Planset\00572-CSPP.dwg	

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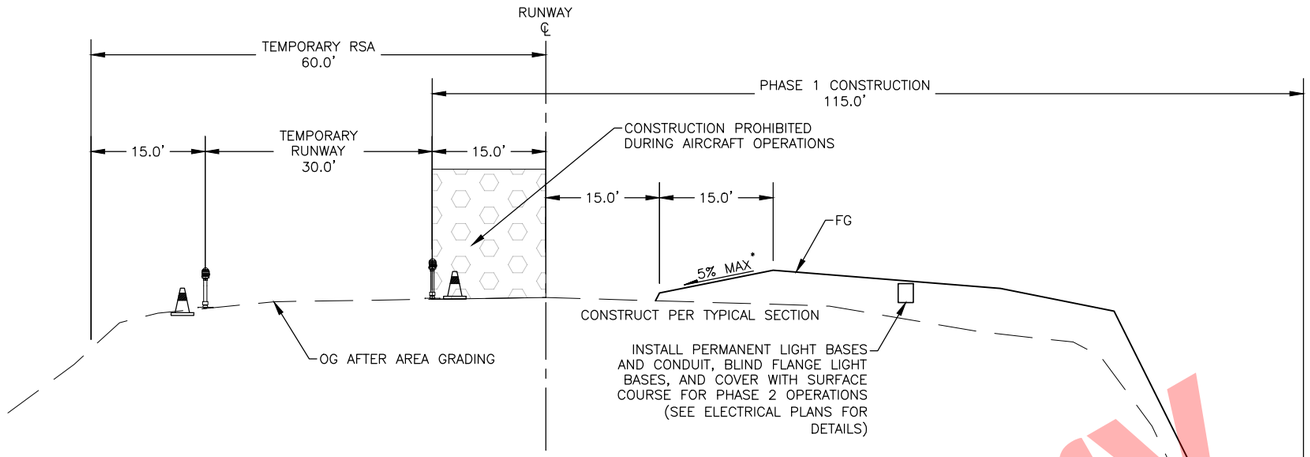
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP PHASE 5A & 5B

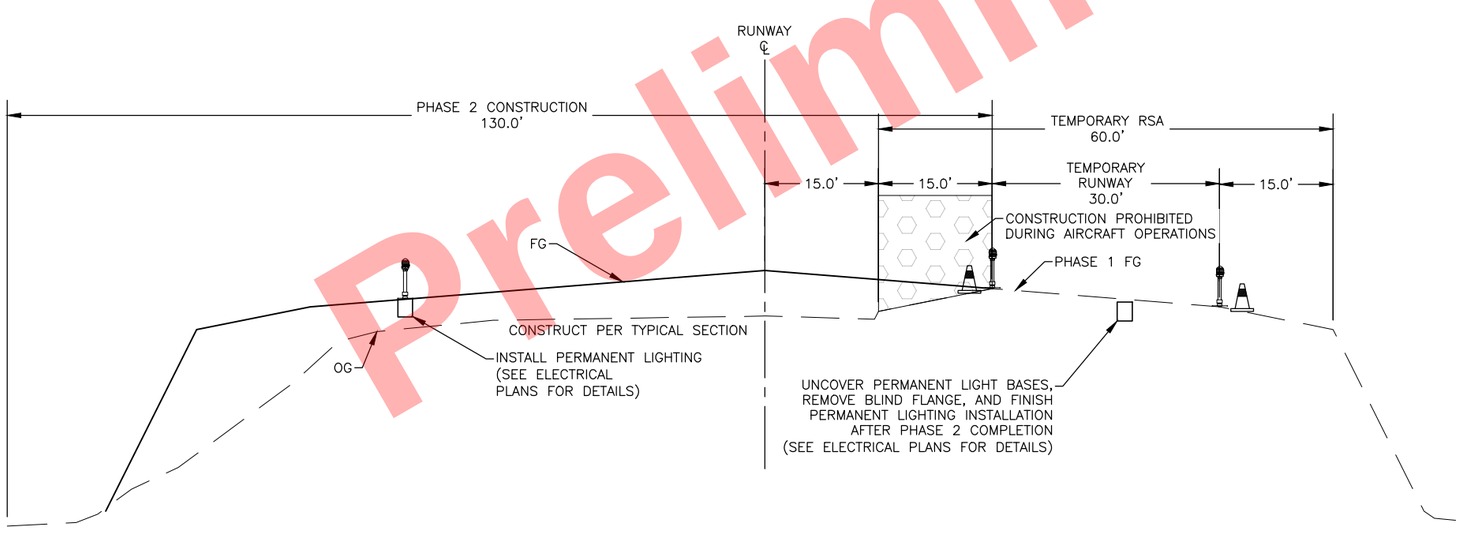
DATE: 01/24/2024

SHEET: AC17 OF AC23



* 3% MAX GRADE FROM STATION
1045+95.00 TO 10+46+40

1 / AC18 PHASE 1 RUNWAY CONSTRUCTION
NTS



2 / AC18 PHASE 2 RUNWAY CONSTRUCTION
NTS

Designed By:	LDO
Drawn By:	RJB
Checked By:	PWC

Date Revised:	1/24/2024, 7:16 AM
Layout Name:	CSPP RW TYPICALS
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D\Planset\00572-CSPP.dwg

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NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
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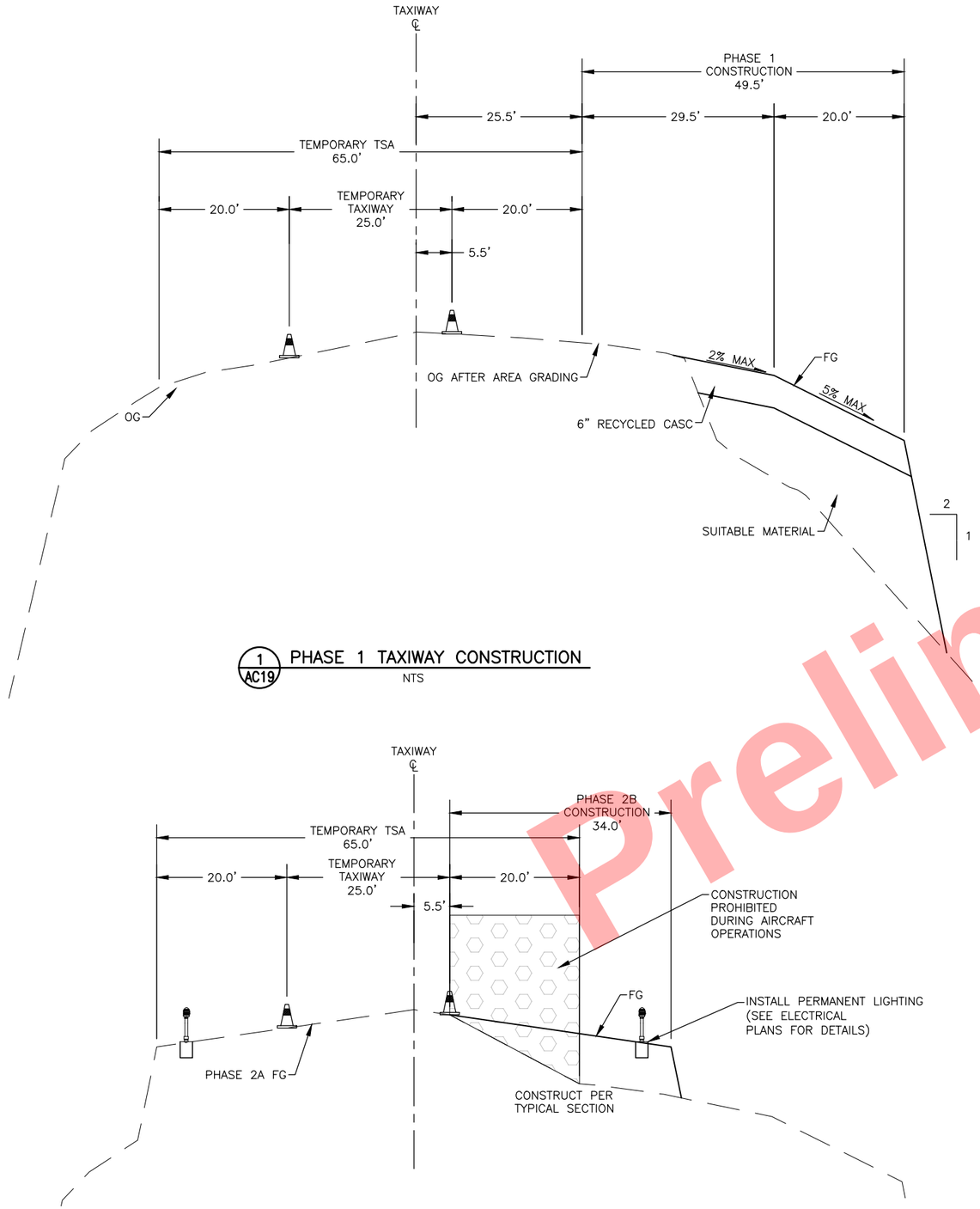
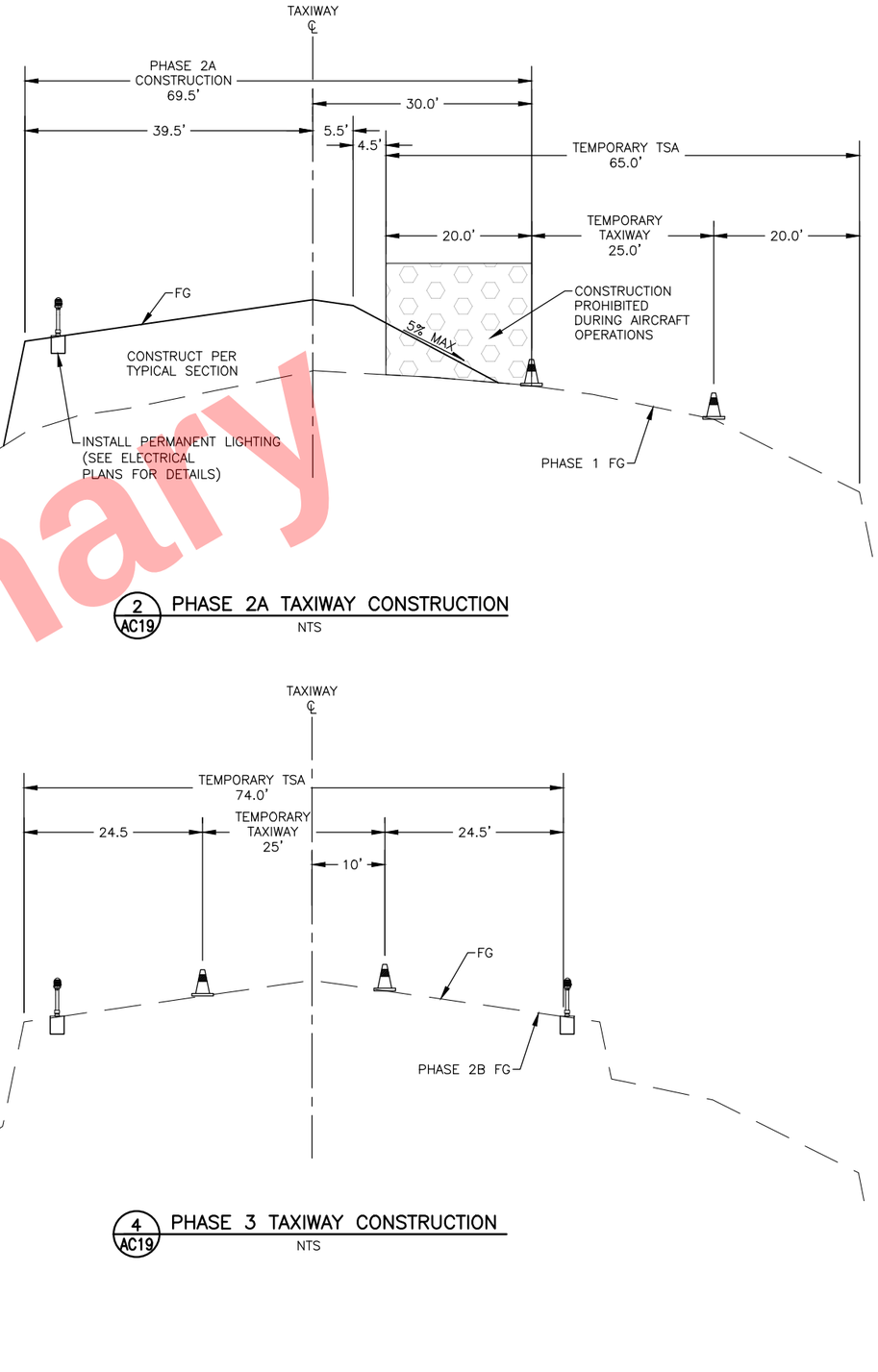
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP RW PHASING TYPICALS

DATE: 01/24/2024

SHEET: AC18 OF AC23



1 AC19 PHASE 1 TAXIWAY CONSTRUCTION
NTS



2 AC19 PHASE 2A TAXIWAY CONSTRUCTION
NTS

3 AC19 PHASE 2B TAXIWAY CONSTRUCTION
NTS

4 AC19 PHASE 3 TAXIWAY CONSTRUCTION
NTS

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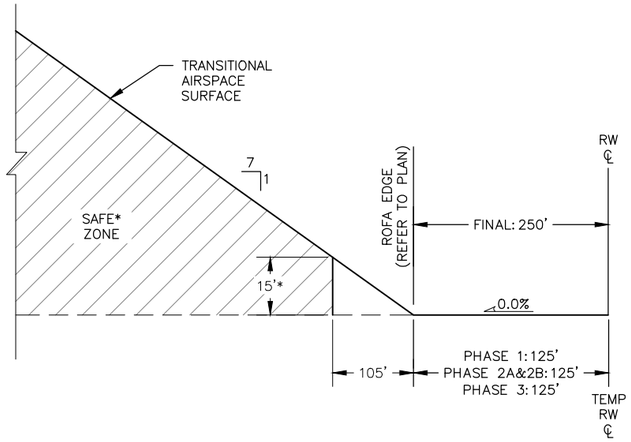
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP TW PHASING TYPICALS

DATE: 01/24/2024
SHEET: AC19 OF AC23

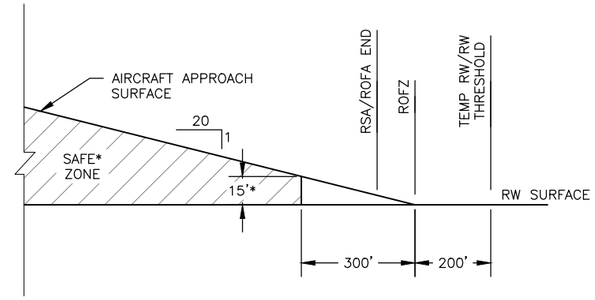
Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised:
Layout Name: 1/24/2024, 7:16 AM CSPP TW TYPICALS
File Path and Name: W:\Projects\Nightmute\Nightmute imp 00572\Civil3D\Planset\00572-CSPP.dwg



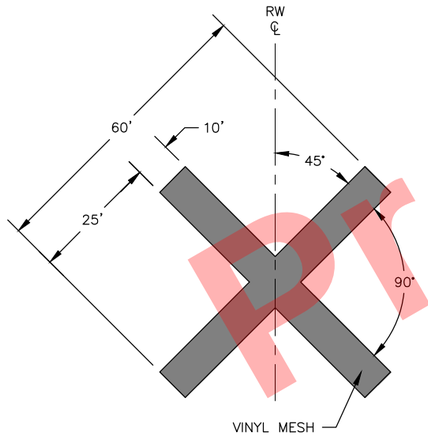
*VEHICLES TALLER THAN 15 FEET (INCLUDING ALL PARTS OF THE EQUIPMENT, E.G. AN EXCAVATOR) MUST REMAIN FARTHER AWAY FROM THE RW CENTERLINE. WHEN THIS IS THE CASE, NOTIFY AND COORDINATE SAFE ZONE LIMITS WITH THE ENGINEER.

1 AC20 SAFE ZONES ADJACENT TO ACTIVE RUNWAY
NTS



*VEHICLES TALLER THAN 15 FEET (INCLUDING ALL PARTS OF THE EQUIPMENT, E.G. AN EXCAVATOR) MUST REMAIN FARTHER AWAY FROM THE RW THRESHOLD. WHEN THIS IS THE CASE, NOTIFY AND COORDINATE SAFE ZONE LIMITS WITH THE ENGINEER.
THE 20:1 APPROACH SURFACE IS BASED ON THE THRESHOLD ELEVATION, THE ALLOWABLE VEHICLE HEIGHT MAY NEED TO BE REDUCED IF THE GROUND ELEVATION RISES BEYOND THE THRESHOLD.

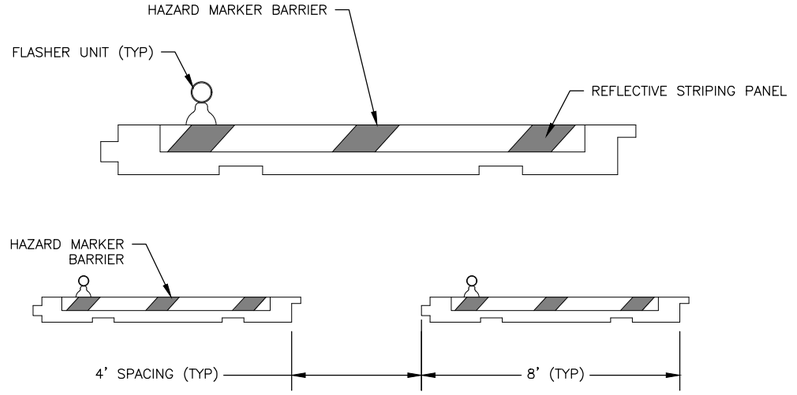
2 AC20 SAFE ZONES ALONG ACTIVE RUNWAY
NTS



CLOSURE MARKER NOTES:

1. MAINTAIN RW CLOSURE MARKERS AS CONSTRUCTION ALLOWS.
2. CLOSURE MARKER IS YELLOW VINYL.
3. RW CLOSURE MARKERS ARE TO BE PLACED AT EACH RW END AND AT 500 FOOT INTERVALS.

3 AC20 RUNWAY CLOSURE MARKER DETAIL
NTS



NOTES:

1. HAZARD MARKER BARRIERS ARE NOT TO BE PLACED WITHIN 125 FEET OF AN ACTIVE RW CENTERLINE.
2. PLACE BARRIERS TO SEPARATE CONSTRUCTION AREAS FROM OPEN PORTIONS OF THE AIRPORT.
3. DISTANCE BETWEEN BARRIERS CAN BE ADJUSTED FOR CONSTRUCTION TRAFFIC.
4. BARRIERS MUST BE LOCATED OUTSIDE THE SAFETY AREA OF ACTIVE TAXIWAYS AND RUNWAYS.

4 AC20 CONSTRUCTION CLOSURE HAZARD MARKER BARRIER DETAIL
NTS

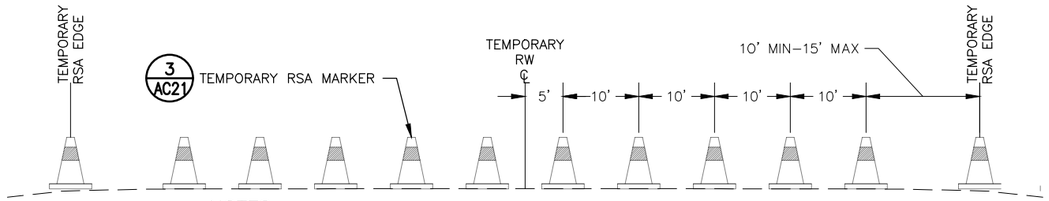
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP DETAILS

DATE: 01/24/2024
SHEET: AC20 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC
Date Revised:
Layout Name: CSPP Details 2
File Path and Name: W:\Projects\Nightmute\Nightmute Imp 00572\Civ30\Planset\00572-CSPP.dwg
1/24/2024, 7:16 AM

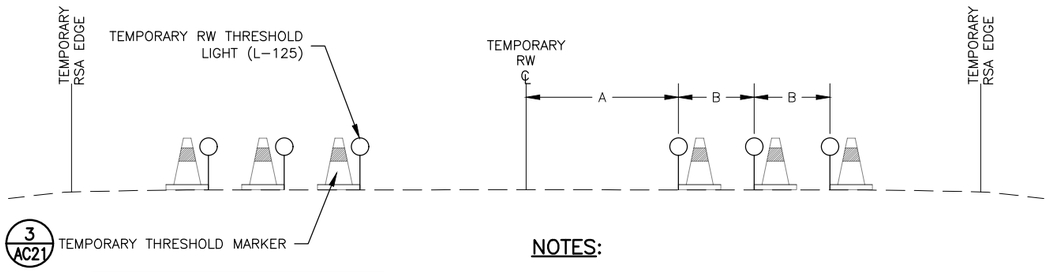


NOTES:

1. MAINTAIN 10' OF SPACING BETWEEN ALL TEMPORARY RSA MARKERS EXCEPT FOR THE TWO FURTHEST OUTBOARD MARKERS. THE SPACING BETWEEN THE TWO FURTHEST OUTBOARD MARKERS CAN VARY BETWEEN 10' AND 15' SO THAT THE FURTHEST OUTBOARD MARKER IS PLACED AT THE TEMPORARY RSA EDGE.
2. THE NUMBER OF TEMPORARY RSA MARKERS REQUIRED FOR EACH PHASE WILL VARY BASED ON THE TEMPORARY RSA WIDTH FOR EACH PHASE.

1 AC21 TEMPORARY RUNWAY SAFETY AREA MARKER DETAIL

NOT TO SCALE



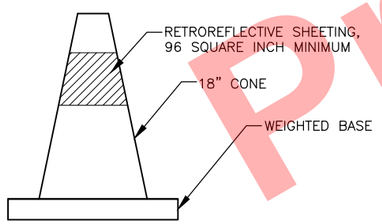
DIMENSION	A	B
PHASE 1	15'	10'
PHASE 2A&2B	15'	10'
PHASE 3 (RW 3 END)	37.5'	10'
PHASE 3 (RW 21 END)	27.5'	10'

NOTES:

1. TEMPORARY RW THRESHOLD LIGHTS SHALL EMIT GREEN LIGHT OUTWARD FROM THE RW AND RED LIGHT TOWARD THE RW.
2. TEMPORARY RW THRESHOLD LIGHTING PAID UNDER ITEM L125.180.0000.

2 AC21 TEMPORARY RUNWAY THRESHOLD LIGHT & THRESHOLD MARKER DETAIL

NOT TO SCALE

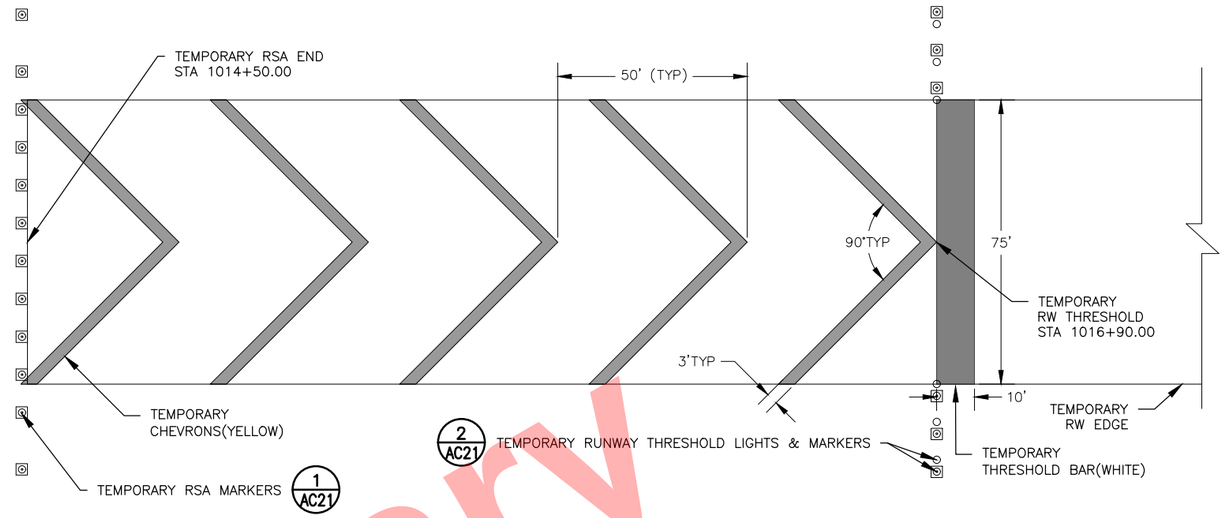


NOTES:

1. TEMPORARY RW EDGE MARKERS SHALL HAVE A WHITE RETRO REFLECTIVE SHEETING.
2. TEMPORARY RSA MARKERS SHALL HAVE AN ORANGE RETRO REFLECTIVE SHEETING.
3. TEMPORARY THRESHOLD MARKERS SHALL HAVE A RED AND GREEN RETRO REFLECTIVE SHEETING. THE GREEN SIDE OF THE SHEETING SHALL FACE THE APPROACH OF THE RUNWAY, AND THE RED SIDE OF THE SHEETING SHALL FACE THE RUNWAY.
4. TEMPORARY TAXIWAY EDGE MARKERS SHALL HAVE A BLUE RETRO REFLECTIVE SHEETING.
5. TEMPORARY MARKERS(CONES) PAID UNDER ITEM P660.070.0000.

3 AC21 TEMPORARY RUNWAY & TAXIWAY EDGE, THRESHOLD, AND RSA MARKERS

NOT TO SCALE



NOTES:

1. TEMPORARY RW SURFACE MARKINGS PAID UNDER ITEM P620.070.0000.

4 AC21 PHASE 3 TEMPORARY RUNWAY MARKING DETAIL (RW 3 END)

NOT TO SCALE

NOTES:

1. TEMPORARY RW SURFACE MARKINGS PAID UNDER ITEM P620.070.0000.

5 AC21 PHASE 3 TEMPORARY RUNWAY MARKING DETAIL (RW 21 END)

NOT TO SCALE

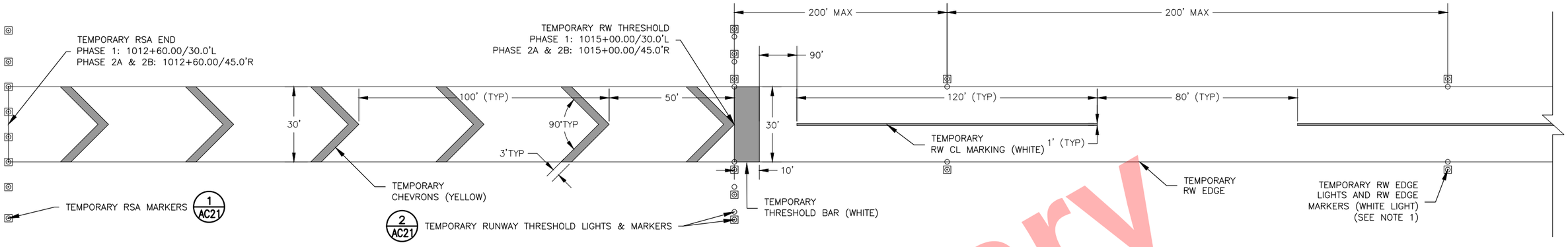
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP DETAILS

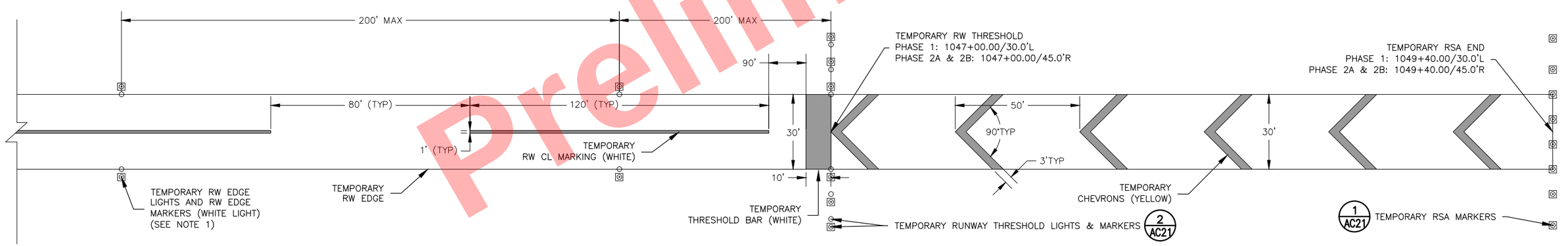
DATE: 01/24/2024
SHEET: AC21 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC
Date Revised: 1/24/2024, 7:16 AM
Layout Name: CSPP Details 3
File Path and Names: W:\Projects\Nightmute\Nightmute imp 00572\Civil3D\Planset\00572-CSPP.dwg



1 AC22 PHASE 1, 2A & 2B TEMPORARY RUNWAY MARKING & LIGHTING DETAIL (RW 3 END)

NOT TO SCALE



2 AC22 PHASE 1, 2A & 2B TEMPORARY RUNWAY MARKING & LIGHTING DETAIL (RW 21 END)

NOT TO SCALE

NOTES:

1. CENTER TEMPORARY RW EDGE LIGHTS UPON THE TEMPORARY RW EDGE AND PLACE TEMPORARY RW EDGE MARKERS OUTSIDE OF THE TEMPORARY RW EDGE AS SHOWN.
2. TEMPORARY RW SURFACE MARKINGS PAID UNDER ITEM P620.070.0000.
3. TEMPORARY RW EDGE LIGHTING PAID UNDER ITEM L125.180.0000.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
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PHONE (907) 269-0590

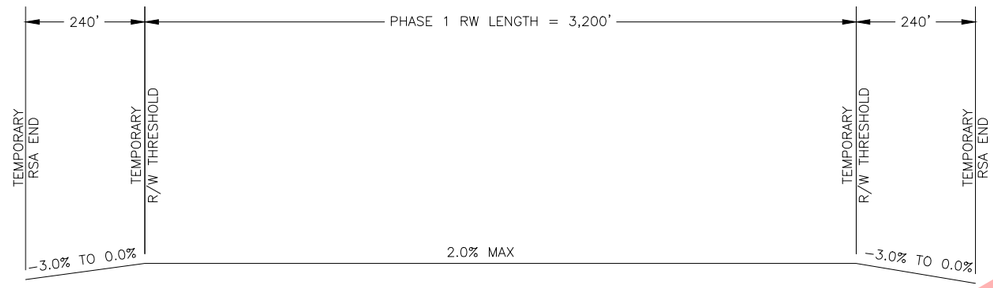
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP DETAILS

DATE: 01/24/2024

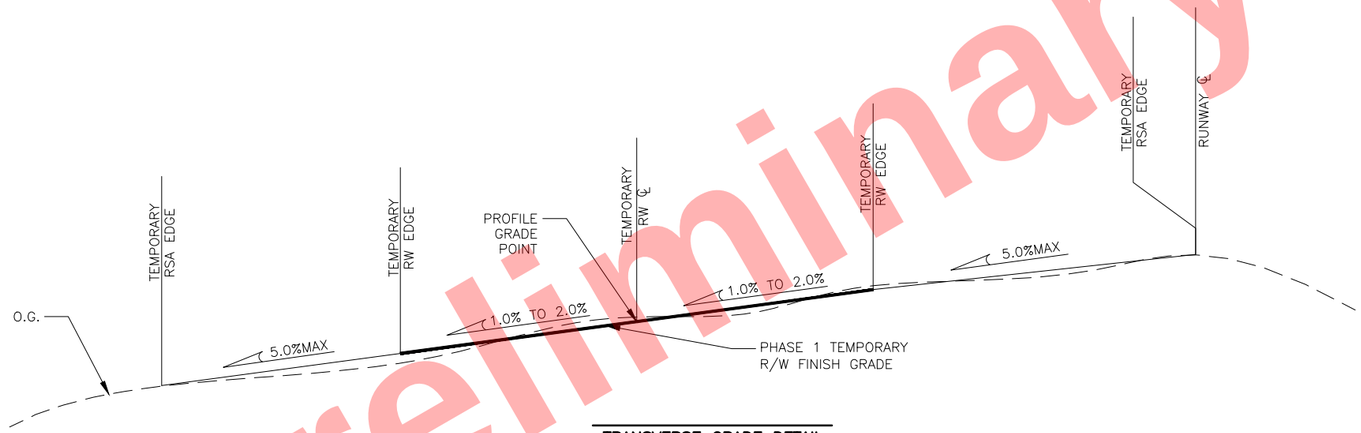
SHEET: AC22 OF AC23

Designed By: LDO
Drawn By: RJB
Checked By: PWC

Date Revised: 1/24/2024, 7:16 AM
Layout Name: CSPP Details 4
File Path and Name: W:\Projects\Nightmute Imp 00572\Civil\30\Planset\00572-CSPP.dwg



LONGITUDINAL GRADE DETAIL



TRANSVERSE GRADE DETAIL

NOTES:

1. LONGITUDINAL GRADE BREAKS NO CLOSER THAN 250 FEET APART.
2. MAXIMUM GRADE CHANGE AT LONGITUDINAL GRADE BREAKS IS 0.40%.
3. NO LONGITUDINAL GRADE BREAKS MAY OCCUR WITHIN THE TEMPORARY RSA BEYOND THE TEMPORARY THRESHOLD.
4. AREA GRADING TO OCCUR PRIOR TO PHASE 1. GRADE SMOOTH WITHIN TEMPORARY RUNWAY AND TAXIWAY SAFETY AREAS TO ALLOW FOR AIRCRAFT OPERATIONS.

1 / AC23 PHASE 1 RUNWAY AREA GRADING

NOT TO SCALE

Designed By:	LDO	
Drawn By:	RJB	
Checked By:	PWC	
Date Revised:	1/24/2024, 7:16 AM	
Layout Name:	CSPP Details 5	
File Path and Name:	W:\Projects\Nightmute\Nightmute Imp 00572\Civil3D\Planset\00572-CSPP.dwg	

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

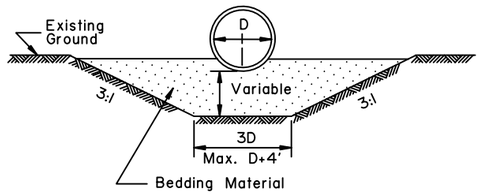
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. CFAPT00572
AIP No. 3-02-0195-002-202X
CSPP DETAILS

DATE: 01/24/2024

SHEET: AC23 OF AC23

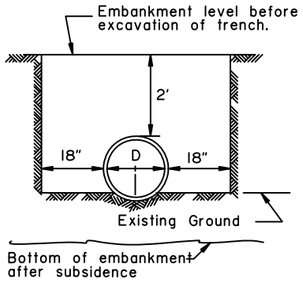
D-01.02

SHEET | of |

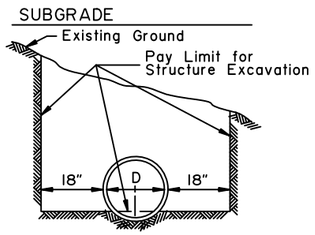


TYPE "A"
FOUNDATION STABILIZATION

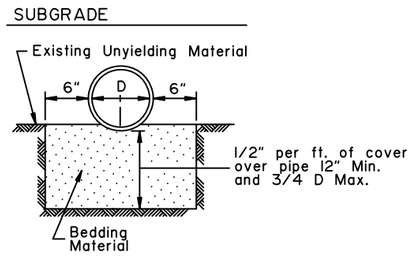
To be used in unstable areas as directed by the Engineer.



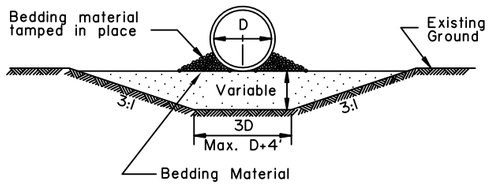
TYPE "B"



TYPE "C"

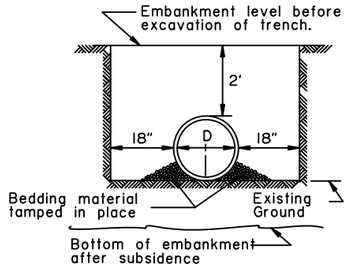


TYPE "D"
ROCK OR UNYIELDING MATERIAL

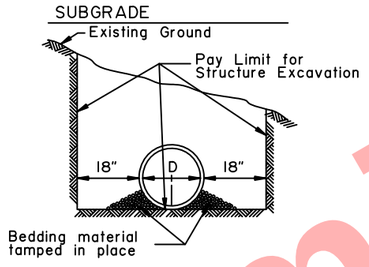


'ALTERNATE'
TYPE "A"
FOUNDATION STABILIZATION

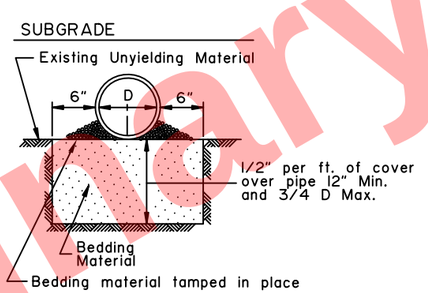
To be used in unstable areas as directed by the Engineer.



'ALTERNATE'
TYPE "B"



'ALTERNATE'
TYPE "C"

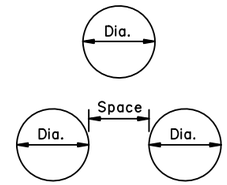


'ALTERNATE' TYPE "D"
ROCK OR UNYIELDING MATERIAL

GENERAL NOTES:

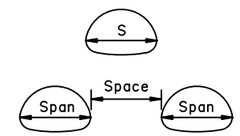
1. Sidefill shall be placed and compacted with care under haunches of pipe and shall be brought up evenly and simultaneously on both sides of pipe to 1 foot above the top of the full length of the pipe.
2. Alternate installation methods may only be used when specified or approved by the Engineer.

D = Nominal Pipe Diameter



MULTIPLE INSTALLATIONS	
Dia.	Minimum Space Between Pipes
0" - 42"	24"
48" & Over	1/2 Dia. of pipe or 3', whichever is less.

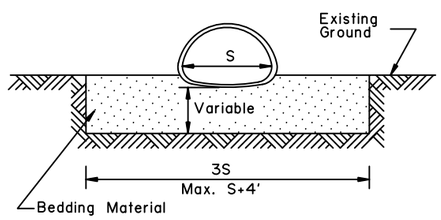
S = Nominal Pipe Arch Span



MULTIPLE INSTALLATIONS	
Dia.	Minimum Space Between Pipes
0" - 42"	24"
48" & Over	1/2 Span of pipe arch or 3', whichever is less.

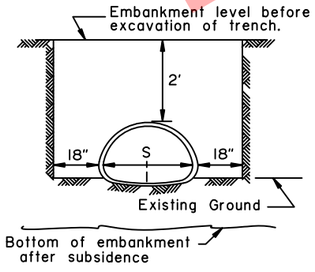
CULVERT PIPE

ARCH

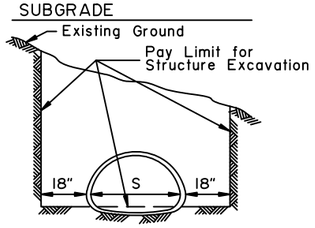


TYPE "A"
FOUNDATION STABILIZATION

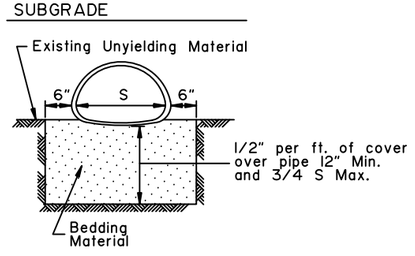
To be used in unstable areas as directed by the Engineer.



TYPE "B"



TYPE "C"



TYPE "D"
ROCK OR UNYIELDING MATERIAL

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT PIPE & ARCH INSTALLATION DETAILS

Adopted as an Alaska Standard Plan by:

Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

D-01.02

Minimum & Maximum Cover for 2 2/3"X 1/2" Aluminum Pipe						
Gage		16	14	12	10	8
Thickness		0.060	0.075	0.105	0.135	0.164
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
12	12	100+	100+	100+	100+	100+
15	12	100	100+	100+	100+	100+
18	12	83	100+	100+	100+	100+
21	12	71	89	100+	100+	100+
24	12	62	78	100+	100+	100+
27	12		69	97	100+	100+
30	12		62	87	100+	100+
36	12		51	73	94	100+
42	12			62	80	100+
48	12			54	70	85
54	15			48	62	76
60	15				52	64
66	18					52
72	18					43

Minimum & Maximum Cover for 3" x 1" Aluminum Pipe						
Gage		16	14	12	10	8
Thickness		0.060	0.075	0.105	0.135	0.164
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
30	12	57	72	100+	100+	100+
36	12	47	60	84	100+	100+
42	12	40	51	72	96	100+
48	12	35	44	62	84	99
54	15	31	39	55	74	88
60	15	28	35	50	67	79
66	18	25	32	45	61	72
72	18	23	29	41	56	66
78	21		27	38	51	61
84	21			35	48	56
90	24			33	44	52
96	24			31	41	49
102	24				39	46
108	24				37	43
114	24					39
120	24					36

Minimum & Maximum Cover for 9" X 2 1/2" Aluminum Structural Plate Pipe*			
Thickness		0.125	0.150
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)
84	18	31	
90	18	27	
96	18	27	
102	18	24	
108	18	24	
114	18	21	
120	24	21	
126	24	19	
132	30	19	
138	30	18	
144	30	18	
150	30		22
156	30		22
162	36		20
168	36		20

*5.33 - 3/4" dia. steel bolts per foot.

CORRUGATED CIRCULAR ALUMINUM PIPE

CORRUGATED ALUMINUM PIPE-ARCH

Minimum & Maximum Cover for 2 2/3"X 1/2" Aluminum Pipe-Arch					
				2 Tons/Sf Corner Bearing Pressure	
Span (Ft.-In.)	Rise (Ft.-In.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	Max. Cover (Ft)
17	13	3 4/8	16 (0.060)	12	13
21	15	4 1/8	16 (0.060)	12	12
24	18	4 7/8	16 (0.060)	12	12
28	20	5 4/8	14 (0.075)	12	12
35	24	6 7/8	14 (0.075)	12	12
42	29	8 2/8	12 (0.105)	12	12
49	33	9 5/8	12 (0.105)	15	12
57	38	11	10 (0.135)	15	12
64	43	12 3/8	10 (0.135)	18	12
71	47	13 6/8	8 (0.164)	18	12

Minimum & Maximum Cover for 3" x 1" Aluminum Pipe-Arch					
				2 Tons/Sf Corner Bearing Pressure	
Span (Ft.-In.)	Rise (Ft.-In.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	Max. Cover (Ft)
60	46	18 6/8	14 (0.075)	15	20
66	51	20 6/8	14 (0.075)	18	20
73	55	22 7/8	14 (0.075)	21	20
81	59	20 7/8	12 (0.105)	21	16
87	63	22 7/8	12 (0.105)	24	16
95	67	24 3/8	12 (0.105)	24	16
103	71	26 1/8	10 (0.135)	24	16
112	75	27 6/8	8 (0.164)	24	16

Minimum & Maximum Cover for 9" x 2 1/2" Aluminum Multiplate Pipe-Arch*					
Span (Ft.-In.)	Rise (Ft.-In.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	2 Tons/Sf Corner Bearing Pressure Max. Cover (Ft)
6-7	5-8	31.75	0.125	24	24
6-11	5-9	31.75	0.125	24	24
7-3	5-11	31.75	0.125	24	18
7-9	6-0	31.75	0.125	24	18
8-5	6-3	31.75	0.125	24	16
9-3	6-5	31.75	0.125	24	15
10-3	6-9	31.75	0.125	30	13
10-9	6-10	31.75	0.125	30	13
11-5	7-1	31.75	0.125	30	13
12-7	7-5	31.75	0.125	30	11
12-11	7-6	31.75	0.125	30	11
13-1	8-2	31.75	0.125	30	11
13-11	8-5	31.75	0.125	36	10
14-8	9-8	31.75	0.125	36	9
15-4	10-0	31.75	0.150	36	8
16-1	10-4	31.75	0.150	36	8
16-9	10-8	31.75	0.150	42	7
17-3	11-0	31.75	0.150	42	7
18-0	11-4	31.75	0.175	42	7
18-8	11-8	31.75	0.175	42	7

*5.33 - 3/4" dia. steel bolts per foot.

GENERAL NOTES:

1. All material and workmanship shall be in accordance with the State of Alaska, Standard Specifications for Highway Construction.
2. The contractor shall select only pipes that meet specific height of cover criteria shown on the plans or in the special provisions.
3. No more than one type of pipe may be used on any single installation or installation grouping.
4. All structural plate pipes shall be placed on a pre-shaped foundation conforming to the depth of the bottom plates with clearance for assembling to the adjacent plates allowed.
5. See Standard Plan D-01 "Culvert Pipe & Arch Installation Details" for foundation and structural backfill details.
6. Minimum cover shall be measured from the top of pipe to the top of rigid pavement or to the bottom of flexible pavement subgrade. In all cases, the minimum cover shall not be less than 12". Minimum cover during construction shall be that required to protect the pipe from damage or deflection.
7. These tables have been developed for an HL-93 live load and for compacted soil weighing 120 lbs. per cubic foot or less. If compacted soil cover exceeds 120 lbs. per cubic foot, the contractor shall use the depth of cover shown in the plans for the specific pipe. Where compacted soil cover exceeds 120 lbs. per cubic foot and no specific cover requirements are provided in the plans, the contractor shall determine the required minimum pipe cover in accordance with Section 12 of the 2017 AASHTO "LRFD Bridge Design Specifications".

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PIPE AND ARCH TABLES

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

Minimum & Maximum Cover for 2 2/3" x 1/2" Steel Pipe						
Gage		16	14	12	10	8
Thickness		0.060	0.075	0.105	0.135	0.164
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
12	12	100+	100+	100+	100+	100+
15	12	100+	100+	100+	100+	100+
18	12	100+	100+	100+	100+	100+
21	12	100+	100+	100+	100+	100+
24	12	100+	100+	100+	100+	100+
30	12	83	100+	100+	100+	100+
36	12	69	86	100+	100+	100+
42	12	59	74	100+	100+	100+
48	12	51	64	91	100+	100+
54	12		57	80	100+	100+
60	12			72	93	100+
66	12			66	85	100+
72	12				78	95
78	12					84
84	12					73

Minimum & Maximum Cover fo 3" x 1" Steel Pipe						
Gage		16	14	12	10	8
Thickness		0.060	0.075	0.105	0.135	0.164
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
36	12			100+	100+	100+
42	12			100+	100+	100+
48	12		74	100+	100+	100+
54	12	53	66	93	100+	100+
60	12	47	59	83	100+	100+
66	12	43	54	76	98	100+
72	12	39	49	69	89	100+
78	12	36	45	64	82	100+
84	12	33	42	59	77	94
90	12	31	39	55	71	87
96	12	29	37	52	67	82
102	18	27	34	49	63	77
108	18		32	46	59	73
114	18		31	43	56	69
120	18		29	41	53	65
126	18			39	51	62
132	18			37	48	59
138	18			36	46	57
144	18				44	54

Minimum & Maximum Cover for 5" x 1" Steel Pipe						
Gage		16	14	12	10	8
Thickness		0.060	0.075	0.105	0.135	0.164
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
36	12	71	88	100+	100+	100+
42	12	60	76	100+	100+	100+
48	12	53	66	93	100+	100+
54	12	47	59	82	100+	100+
60	12	42	53	74	96	100+
66	12	38	48	67	87	100+
72	12	35	44	62	79	97
78	12	32	40	57	73	90
84	12	30	37	53	68	83
90	12	28	35	49	63	78
96	12	26	33	46	59	73
102	18	24	31	43	56	69
108	18		29	41	53	65
114	18		27	39	50	61
120	18		26	37	47	58
126	18			35	45	55
132	18			33	43	53
138	18			32	41	50
144	18				39	48

Minimum & Maximum Cover for 6" x 2" Steel Multiplate Pipe*								
Gage		12	10	8	7	5	3	1
Thickness		0.111	0.140	0.170	0.188	0.218	0.249	0.280
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
60	12	46	67	87	100	100+	100+	100+
66	12	42	60	79	91	100+	100+	100+
72	12	38	55	73	83	100+	100+	100+
78	12	35	51	67	77	93	100+	100+
84	12	32	47	62	71	86	100+	100+
90	12	30	44	58	67	80	95	100+
96	12	28	41	54	62	75	89	97
102	18	27	39	51	59	71	84	91
108	18	25	37	48	55	67	79	86
114	18	24	35	45	52	63	75	82
120	18	22	33	43	50	60	71	77
126	18	21	31	41	47	57	68	74
132	18	20	30	39	45	54	64	70
138	18	19	28	37	43	52	62	67
144	18	18	27	36	41	50	59	64

*4 - 3/4" dia. steel bolts per foot.

GENERAL NOTES

1. All material and workmanship shall be in accordance with the State of Alaska, Standard Specifications for Highway Construction.
2. The contractor shall select only pipes that meet specific height of cover criteria shown on the plans or in the special provisions.
3. No more than one type of pipe may be used on any single installation or installation grouping.
4. All structural plate pipes shall be placed on a pre-shaped foundation conforming to the depth of the bottom plates with clearance for assembling to the adjacent plates allowed.
5. See Standard Plan D-01 "Culvert Pipe & Arch Installation Details" for foundation and structural backfill details.
6. Minimum cover shall be measured from the top of pipe to the top of rigid pavement or to the bottom of flexible pavement subgrade. In all cases, the minimum cover shall not be less than 12". Minimum cover during construction shall be that required to protect the pipe from damage or deflecton.
7. These tables have been developed for an HL-93 live load and for compacted soil weighing 120 lbs. per cubic foot or less. If compacted soil cover exceeds 120 lbs. per cubic foot, the contractor shall use the depth of cover shown in the plans for the specific pipe. Where compacted soil cover exceeds 120 lbs. per cubic foot and no specific cover requirements are provided in the plans, the contractor shall determine the required minimum pipe cover in accordance with Section 12 of the 2017 AASHTO "LRFD Bridge Design Specifications".

CORRUGATED CIRCULAR STEEL PIPE

CORRUGATED STEEL PIPE-ARCH

Minimum & Maximum Cover for 2 2/3" X 1/2" Steel Pipe-Arch					
			2 Tons/Sf Corner Bearing Pressure		
Span (Ft.-In.)	Rise (Ft.-In.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	Max. Cover (Ft)
17	13	3 4/8	16 (0.060)	12	11
21	15	4 1/8	16 (0.060)	12	11
24	18	4 7/8	16 (0.060)	12	11
28	20	5 4/8	16 (0.060)	12	11
35	24	6 7/8	16 (0.060)	12	11
42	29	8 2/8	16 (0.060)	12	11
49	33	9 5/8	14 (0.075)	12	11
57	38	11	12 (0.109)	12	11
64	43	12 3/8	12 (0.109)	12	11
71	47	13 6/8	10 (0.138)	12	11
77	52	15 1/8	10 (0.138)	12	11
83	57	16 4/8	8 (0.168)	12	11

Minimum & Maximum Cover for 3"X 1"Steel Pipe-Arch					
			2 Tons/Sf Corner Bearing Pressure		
Span (Ft.-In.)	Rise (Ft.-In.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	Max. Cover (Ft)
53	41	10 2/8	14 (0.079)	12	10
60	46	18 6/8	14 (0.079)	15	29
66	51	20 6/8	14 (0.079)	15	29
73	55	22 7/8	14 (0.079)	18	18
81	59	20 7/8	14 (0.079)	18	15
87	63	22 7/8	14 (0.079)	18	15
95	67	24 3/8	14 (0.079)	18	15
103	71	26 1/8	14 (0.079)	18	14
112	75	27 6/8	14 (0.079)	21	14
117	79	29 4/8	12 (0.109)	21	14
128	83	31 2/8	10 (0.138)	24	14
137	87	33	10 (0.138)	24	14
142	91	34 6/8	10 (0.138)	24	13
150	96	36	10 (0.138)	30	13
157	96	38	10 (0.138)	30	13
164	105	40	10 (0.138)	30	14
171	110	41	10 (0.138)	30	13

Minimum & Maximum Cover for 5"X 1"Steel Pipe-Arch					
			2 Tons/Sf Corner Bearing Pressure		
Span (Ft.-In.)	Rise (Ft.-In.)	Corner Radius (In)	Min. Thickness (In)	Min. Cover (In)	Max. Cover (Ft)
53	41	10 2/8	14 (0.079)	12	10
60	46	18 6/8	14 (0.079)	15	29
66	51	20 6/8	14 (0.079)	15	29
73	55	22 7/8	14 (0.079)	18	18
81	59	20 7/8	14 (0.079)	18	15
87	63	22 7/8	14 (0.079)	18	15
95	67	24 3/8	14 (0.079)	18	15
103	71	26 1/8	14 (0.079)	18	14
112	75	27 6/8	14 (0.079)	21	14
117	79	29 4/8	12 (0.109)	21	14
128	83	31 2/8	10 (0.138)	24	14
137	87	33	10 (0.138)	24	14
142	91	34 6/8	10 (0.138)	24	13
150	96	36	10 (0.138)	30	13
157	96	38	10 (0.138)	30	13
164	105	40	10 (0.138)	30	14
171	110	41	10 (0.138)	30	13

Minimum & Maximum Cover for Steel Multiplate Pipe-Arch 6" x 2" *					
			2 Tons/Sf Corner Bearing Pressure		
Span (Ft.-In.)	Rise (Ft.-In.)	Corner Radius (In)	Min. Gage (In)	Min. Cover (In)	Max. Cover (Ft)
6-1	4-7	18	12 (0.111)	12	14
7-0	5-1	18	12 (0.111)	12	12
7-11	5-7	18	12 (0.111)	12	10
8-10	6-1	18	12 (0.111)	18	9
9-9	6-7	18	12 (0.111)	18	8
10-11	7-1	18	12 (0.111)	18	6
11-10	7-7	18	12 (0.111)	18	5
12-10	8-4	18	12 (0.111)	24	5
13-3	9-4	31	10 (0.140)	24	11
14-2	9-10	31	10 (0.140)	24	10
15-4	10-4	31	10 (0.140)	24	9
16-3	10-10	31	10 (0.140)	30	8
17-2	11-4	31	10 (0.140)	30	8
18-1	11-10	31	10 (0.140)	30	7
19-3	12-4	31	10 (0.140)	30	7
19-11	12-10	31	10 (0.140)	30	6
20-7	13-2	31	10 (0.140)	36	6

*4 - 3/4" dia. steel bolts per foot.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PIPE AND ARCH TABLES

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

Maximum Cover for Type S Corrugated Polyethelene Pipe	
Size (in)	Max. Cover (ft)
12	24
15	25
18	24
24	20
30	20
36	18
42	16
48	17

GENERAL NOTES

1. All materials and workmanship shall be in accordance with the State of Alaska Standard Specifications for Highway Construction.

2. For foundation and structural backfill details see Standard Plan D-01 "Culvert Pipe & Arch Installation Details".

3. Pipe cover height is measured from top of the pipe to top of rigid pavement, or to the bottom of subgrade for flexible pavement. In all cases the minimum cover shall be no less than 2 ft. Where loads traverse the culvert during construction minimum cover shall be no less than 4 ft.

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Carolyn Morehouse, P.E.
Chief Engineer

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Next Code and Standards Review date: 7/8/2030

Minimum & Maximum Cover for Aluminum Spiral Rib Circular Pipe*					
Gage		16	14	12	10
Thickness		0.064	0.079	0.109	0.138
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
18	12	43	61		
21	12	38	52	84	
24	12	33	45	73	
30	15	26	36	58	
36	18	21	30	49	69
42	21		25	41	59
48	24			36	51
54	24			32	46
60	24			29	41
66	24				37
72	30				34

*¾ x ¾ x 7½ in. Corrugations

Minimum & Maximum Cover for Aluminum Spiral Rib Pipe-Arch*						
Gage			16	14	12	10
Thickness			0.060	0.075	0.105	0.135
Span (Ft.-In.)	Rise (Ft.-In.)	Min. Cover (In)	Max. Cover (Ft)			
20	16	12	16			
23	19	12	15			
27	21	15	13	13		
33	26	18	13	13	13	
40	31	21		13	13	
46	36	24			13	13
53	41	24			13	13
60	46	24			13	13
66	51	24				13

*¾ x ¾ x 7½ in. Corrugations

ALUMINUM SPIRAL RIB PIPE

STEEL SPIRAL RIB PIPE

Minimum & Maximum Cover for Steel and Aluminized Steel Spiral Rib Circular Pipe*					
Gage		16	14	12	10
Thickness		0.064	0.079	0.109	0.138
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
18	12	91			
24	12	68	95	100+	
30	12	54	76	100+	
36	12	45	63	100+	
42	12	38	54	90	
48	12	33	47	79	
54	18	30	42	70	
60	18	27	38	63	92
66	18	24	34	57	83
72	18		31	52	76
78	24		29	48	70
84	24		27	45	65
90	24			42	61
96	24			39	56
102	30			36	50
108	30			32	45

*¾ x ¾ x 7½ in. Corrugations.

Minimum & Maximum Cover for Steel Spiral Rib Pipe-Arch*					
			2 Tons/Sf Corner Bearing Pressure		
Thickness			0.064	0.079	0.109
Span (Ft.-In.)	Rise (Ft.-In.)	Min. Cover (In)	Max. Cover (Ft)		
20	16	12	13		
23	19	12	13		
27	21	12	11		
33	26	12	11		
40	31	12	11		
46	36	12	11		
53	41	18		11	
60	46	18		19	
66	51	18		19	
73	55	18			18
81	59	18			15
87	63	18			15
95	67	18			15

*¾ x ¾ x 7½ in. Corrugations

GENERAL NOTES

1. All material and workmanship shall be in accordance with the State of Alaska, Standard Specifications for Highway Construction.
2. The contractor shall select only pipes that meet specific height of cover criteria shown on the plans or in the special provisions.
3. No more than one type of pipe may be used on any single installation or installation grouping.
4. All structural plate pipes shall be placed on a pre-shaped foundation conforming to the depth of the bottom plates with clearance for assembling to the adjacent plates allowed.
5. See Standard Plan D-01 "Culvert Pipe & Arch Installation Details" for foundation and structural backfill details.
6. Minimum cover shall be measured from the top of pipe to the top of rigid pavement or to the bottom of flexible pavement subgrade. In all cases, the minimum cover shall not be less than 12". Minimum cover during construction shall be that required to protect the pipe from damage or deflecton.
7. These tables have been developed for an HL-93 live load and for compacted soil weighing 120 lbs. per cubic foot or less. If compacted soil cover exceeds 120 lbs. per cubic foot, the contractor shall use the depth of cover shown in the plans for the specific pipe. Where compacted soil cover exceeds 120 lbs. per cubic foot and no specific cover requirements are provided in the plans, the contractor shall determine the required minimum pipe cover in accordance with Section 12 of the 2017 AASHTO "LRFD Bridge Design Specifications".

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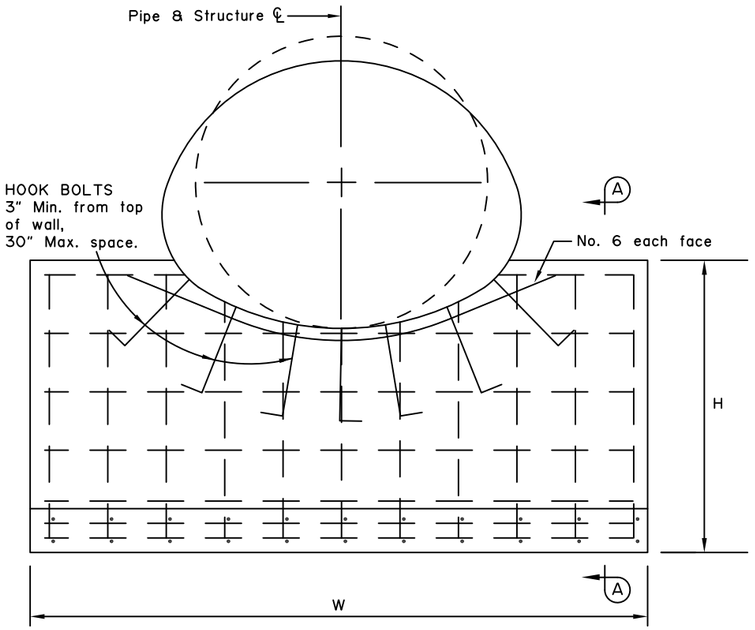

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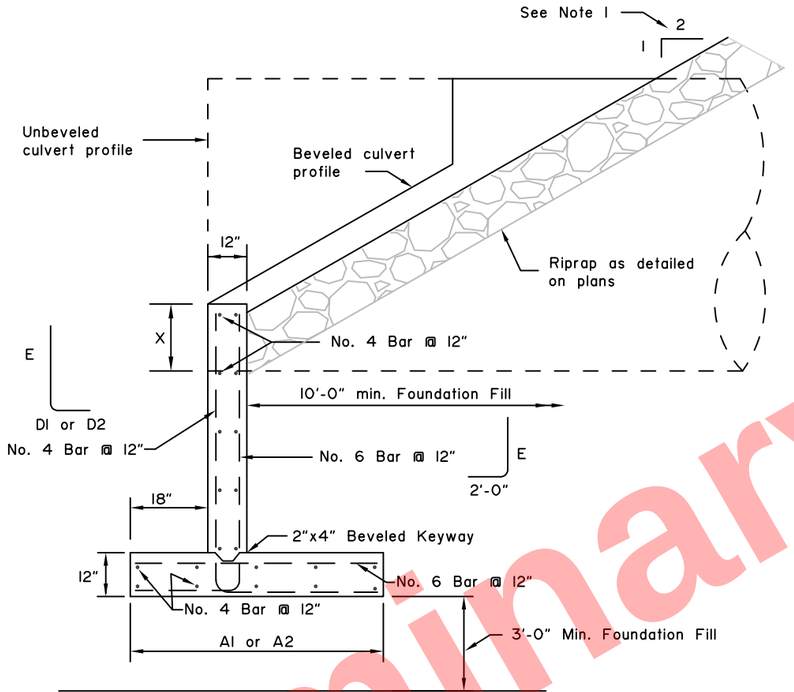
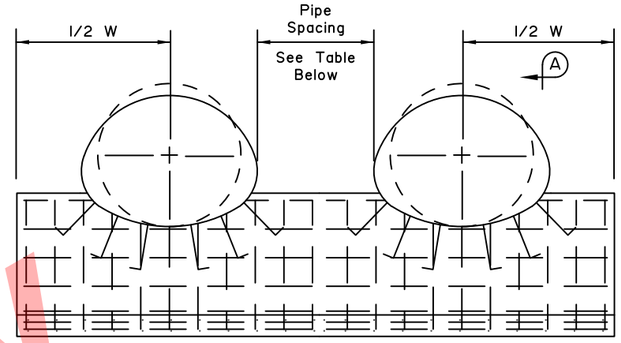


SECTION A-A



MULTIPLE INSTALLATION

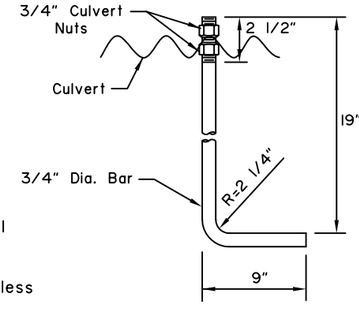
Minimum Space Between Pipes
1/2 Dia. of Pipe or 1/2 Span of Pipe Arch, 24" Min.

CORRUGATED METAL PIPE ✳ SEE NOTE 11							
Dia.	W	H	A1✳	A2✳	D1✳	D2✳	E
5'-0"	9'-0"	4'-0"	4'-0"	4'-0"	2'-0"	2'-0"	3'-6"
5'-6"	10'-0"	4'-6"	4'-0"	4'-0"	2'-0"	2'-0"	4'-0"
6'-0"	11'-0"	4'-6"	4'-0"	4'-0"	2'-0"	2'-0"	4'-0"
6'-6"	12'-0"	4'-6"	4'-0"	4'-0"	2'-0"	2'-0"	4'-0"
7'-0"	12'-6"	4'-6"	4'-0"	4'-0"	2'-0"	2'-0"	4'-0"
7'-6"	13'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-0"	14'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-6"	15'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
9'-0"	16'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
9'-6"	17'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
10'-0"	18'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
10'-6"	19'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
11'-0"	20'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
11'-6"	21'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
12'-0"	21'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
12'-6"	22'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
13'-0"	23'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
13'-6"	24'-6"	6'-0"	5'-6"	4'-0"	3'-6"	2'-0"	5'-6"
14'-0"	25'-6"	6'-6"	6'-0"	4'-0"	4'-0"	2'-0"	6'-0"
14'-6"	26'-0"	6'-6"	6'-0"	4'-0"	4'-0"	2'-0"	6'-0"
15'-0"	27'-0"	6'-6"	6'-0"	4'-0"	4'-0"	2'-0"	6'-0"

CORRUGATED METAL PIPE ARCH ✳ SEE NOTE 11								
SPAN	RISE	W	H	A1✳	A2✳	D1✳	D2✳	E
6'-1"	4'-7"	14'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
6'-4"	4'-9"	14'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
6'-9"	4'-11"	15'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
7'-0"	5'-1"	15'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
7'-3"	5'-3"	16'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
7'-8"	5'-5"	16'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
7'-11"	5'-7"	17'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-2"	5'-9"	17'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-7"	5'-11"	18'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-10"	6'-1"	18'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
9'-4"	6'-3"	19'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
9'-6"	6'-5"	19'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
9'-9"	6'-7"	20'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
10'-3"	6'-9"	20'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
10'-8"	6'-11"	21'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
10'-11"	7'-1"	21'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
11'-5"	7'-3"	22'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
11'-7"	7'-5"	22'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
11'-10"	7'-7"	23'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
12'-4"	7'-9"	23'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
12'-6"	7'-11"	24'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
12'-8"	8'-1"	24'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
12'-10"	8'-4"	25'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
13'-5"	8'-5"	25'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
13'-11"	8'-7"	26'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
14'-1"	8'-9"	26'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
14'-3"	8'-11"	27'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
14'-10"	9'-1"	27'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
15'-4"	9'-3"	28'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
15'-6"	9'-5"	28'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
15'-8"	9'-7"	29'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
15'-10"	9'-10"	29'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
16'-5"	9'-11"	30'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
16'-7"	10'-1"	30'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"

GENERAL NOTES:

1. For use on 2:1 or flatter backfill slopes only.
2. See plans for pipe beveling requirements. See Std. Dwg. D-07 for "X" dimension and culvert beveling geometry.
3. Use Class A concrete.
4. Use epoxy-coated ASTM A706, Grade 60 reinforcing steel fy=60,000 psi.
5. Place reinforcement 3" clear from surface of concrete unless otherwise noted.
6. Chamfer all exposed concrete corners 3/4".
7. If unsuitable foundation material is encountered, remove and backfill with Foundation Fill as directed by the Engineer.
8. Furnishing and installing hook bolts in place is incidental to Class A concrete.
9. Use galvanized ASTM A307 hook bolts and nuts. Torque culvert nuts to 140 ft-lbs.
10. Headwalls for skewed culverts to be parallel to road centerline. See plans for dimensions of openings in headwalls for skewed culverts.
11. For backfill soil with:
    ϕ=30°, γ=130 pcf
    Use A1 and D1
    ϕ=34°, γ=135 pcf
    Use A2 and D2



HOOK BOLT

State of Alaska DOT&PF
ALASKA STANDARD PLAN

HEADWALLS
CAST-IN-PLACE
TYPE I

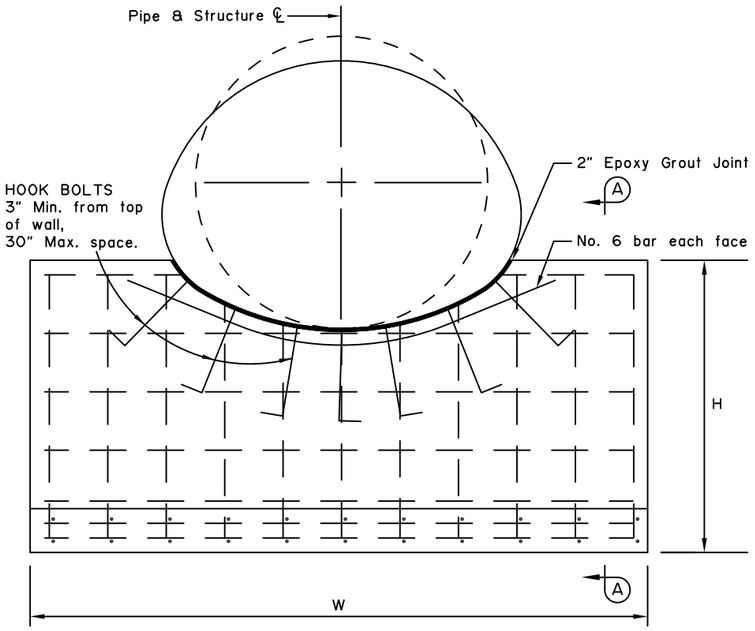
Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

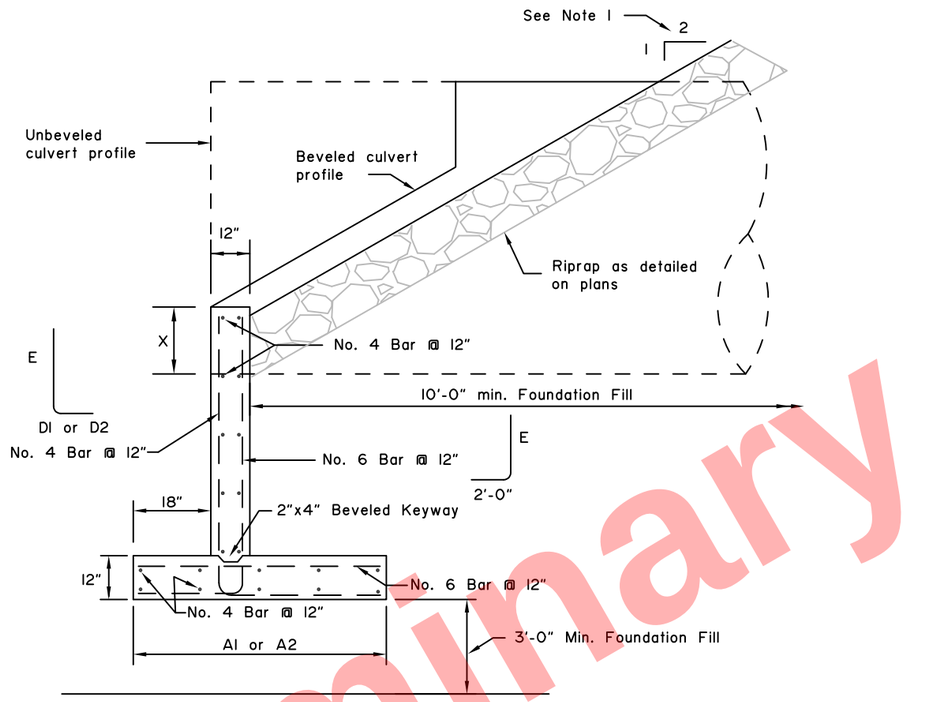
Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

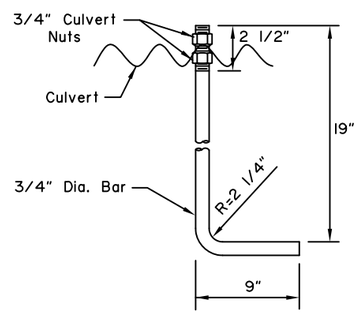
D-30.11



ELEVATION



SECTION A-A



HOOK BOLT

CORRUGATED METAL PIPE ✳ SEE NOTE II							
Dia.	W	H	A1 ✳	A2 ✳	D1 ✳	D2 ✳	E
5'-0"	9'-0"	4'-0"	4'-0"	4'-0"	2'-0"	2'-0"	3'-6"
5'-6"	10'-0"	4'-6"	4'-0"	4'-0"	2'-0"	2'-0"	4'-0"
6'-0"	11'-0"	4'-6"	4'-0"	4'-0"	2'-0"	2'-0"	4'-0"
6'-6"	12'-0"	4'-6"	4'-0"	4'-0"	2'-0"	2'-0"	4'-0"
7'-0"	12'-6"	4'-6"	4'-0"	4'-0"	2'-0"	2'-0"	4'-0"
7'-6"	13'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-0"	14'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-6"	15'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
9'-0"	16'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
9'-6"	17'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
10'-0"	18'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
10'-6"	19'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
11'-0"	20'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"

CORRUGATED METAL PIPE ARCH ✳ SEE NOTE II								
SPAN	RISE	W	H	A1 ✳	A2 ✳	D1 ✳	D2 ✳	E
6'-1"	4'-7"	14'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
6'-4"	4'-9"	14'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
6'-9"	4'-11"	15'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
7'-0"	5'-1"	15'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
7'-3"	5'-3"	16'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
7'-8"	5'-5"	16'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
7'-11"	5'-7"	17'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-2"	5'-9"	17'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-7"	5'-11"	18'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
8'-10"	6'-1"	18'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
9'-4"	6'-3"	19'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
9'-6"	6'-5"	19'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
9'-9"	6'-7"	20'-0"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
10'-3"	6'-9"	20'-6"	5'-0"	4'-6"	4'-0"	2'-6"	2'-0"	4'-6"
10'-8"	6'-11"	21'-0"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"
10'-11"	7'-1"	21'-6"	5'-6"	5'-0"	4'-0"	3'-0"	2'-0"	5'-0"

GENERAL NOTES:

1. For use on 2:1 or flatter backfill slopes only.
2. See plans for pipe beveling requirements. See Std. Dwg. D-07 for "X" dimension and culvert beveling geometry.
3. Use Class A concrete.
4. Use epoxy-coated ASTM A706, Grade 60 reinforcing steel fy=60,000 psi.
5. Place reinforcement 3" clear from surface of concrete unless otherwise noted.
6. Chamfer all exposed concrete corners 3/4".
7. If unsuitable foundation material is encountered, remove and backfill with Foundation Fill as directed by the Engineer.
8. Furnishing and installing hook bolts in place is incidental to Class A concrete.
9. Use galvanized ASTM A307 hook bolts and nuts. Torque culvert nuts to 140 ft-lbs.
10. Headwalls for skewed culverts to be parallel to road centerline. See plans for dimensions of openings in headwalls for skewed culverts.
11. For backfill soil with:
    ϕ=30°, γ=130 pcf
    Use A1 and D1
    ϕ=34°, γ=135 pcf
    Use A2 and D2

State of Alaska DOT&PF
ALASKA STANDARD PLAN

HEADWALLS PRECAST TYPE I

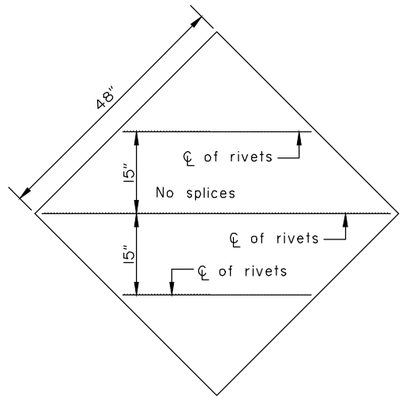
Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E.
Chief Engineer

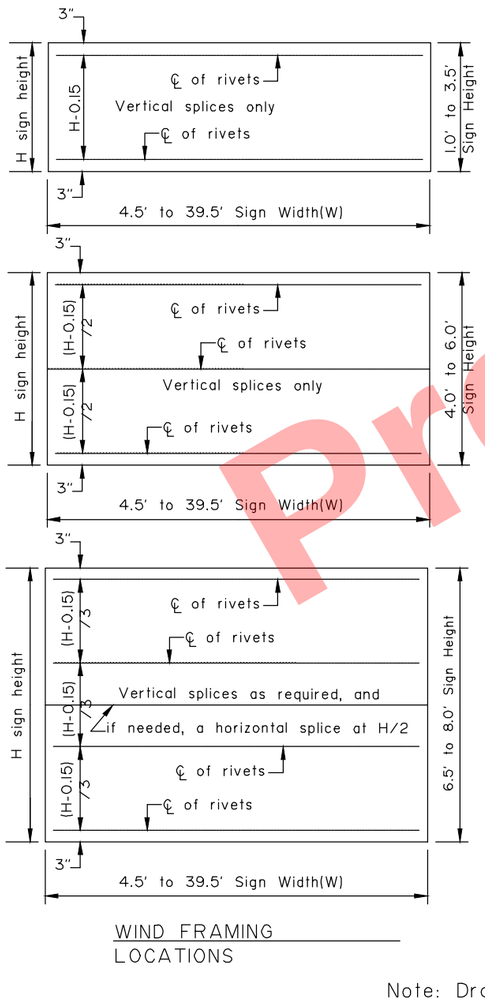
Adoption Date: 02/08/2019

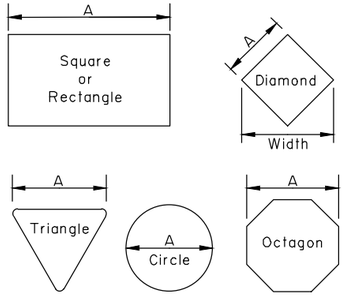
Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

D-31.01





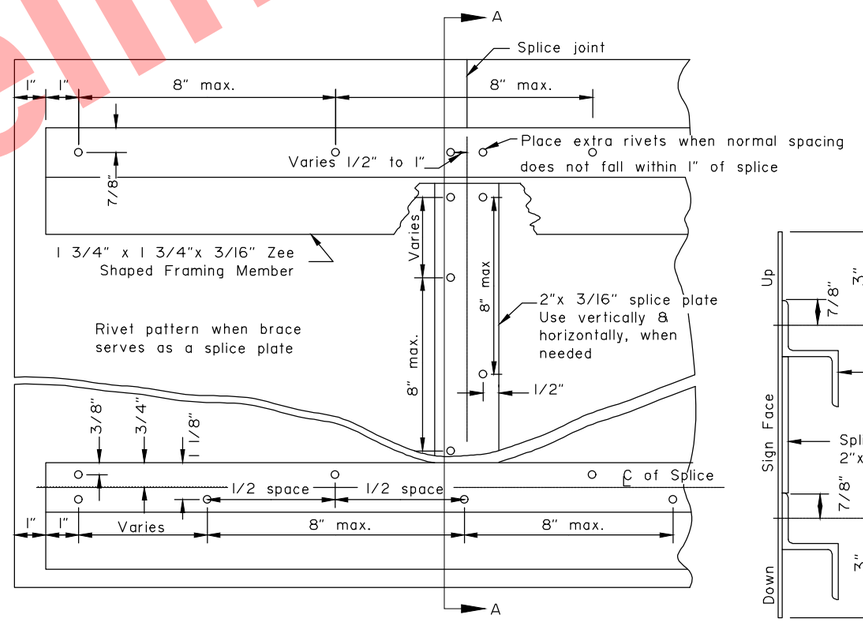


Maximum size unframed signs using 0.125" thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	48"
Rectangles	48"
Diamonds	48"
Triangles	48"
Rounds and Octagons	48"

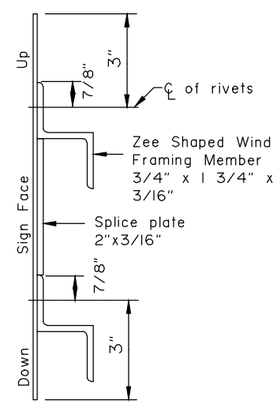
Install wind framing on all signs that exceed the dimensions listed.

LIGHT SIGNS

WIND FRAMING LOCATIONS



RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE



SECTION A-A

Note: Drawing not to scale

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.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

SIGN FRAMING

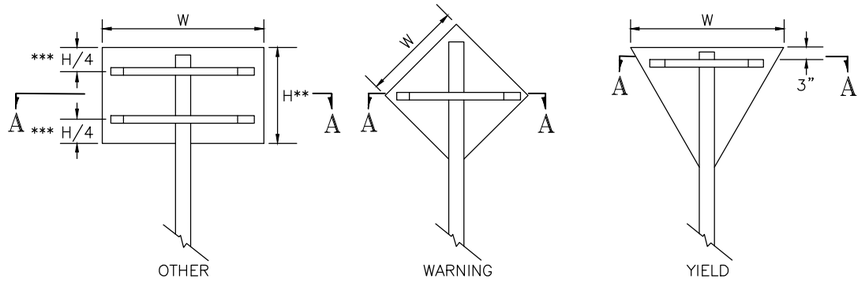
Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

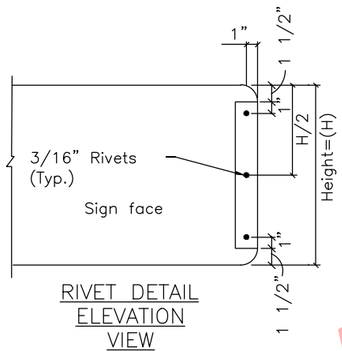
S-00.12



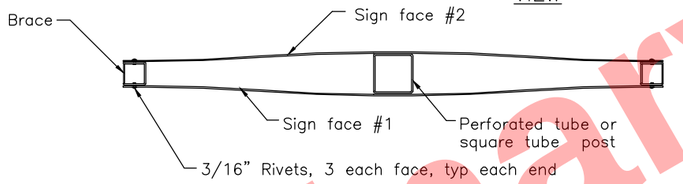
*** Use one brace when H ≤ 18"
Use two braces when 18"< H < 48"
Use three braces when H ≥ 48"

** Position of brace may be varied to match Predrilled mounting holes in panel

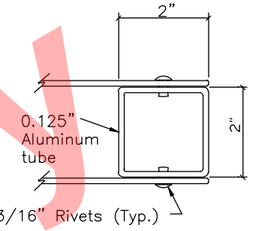
SIGN BRACING PLACEMENT



RIVET DETAIL ELEVATION VIEW

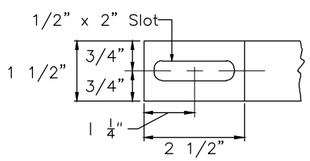


PLAN VIEW

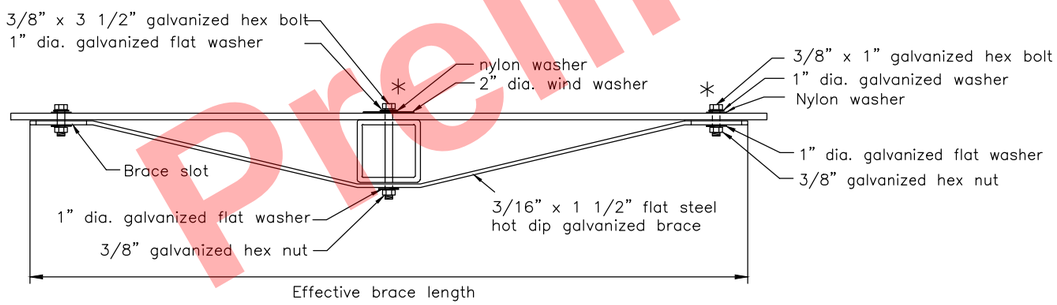


END BRACE DETAIL

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



DETAIL OF BRACE SLOT
Elevation view



TUBE POST SIGN BRACING SECTION A–A
Plan view

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

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

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN

BRACING FOR SIGNS MOUNTED ON SINGLE POST

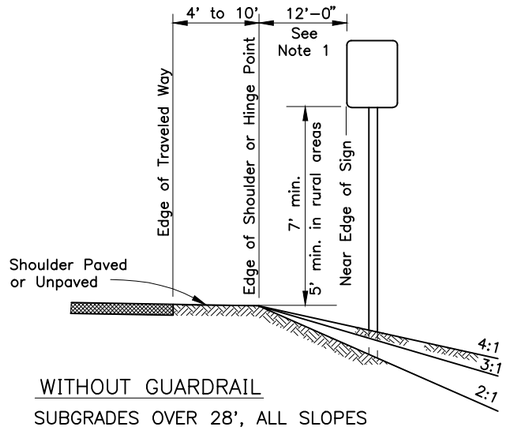
Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

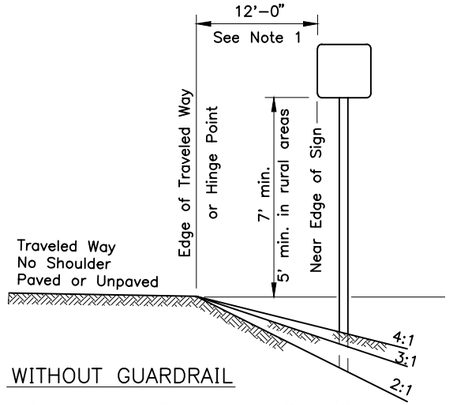
Next Code and Standards Review date: 7/8/2030

S-01.02



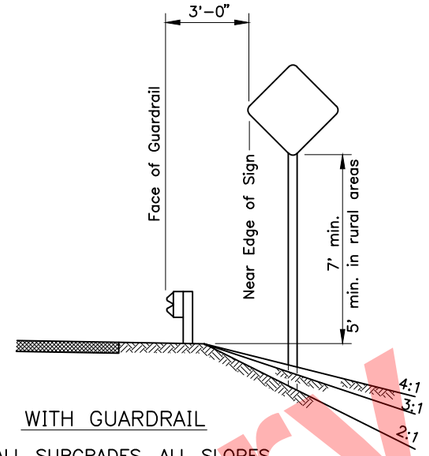
WITHOUT GUARDRAIL

SUBGRADES OVER 28', ALL SLOPES



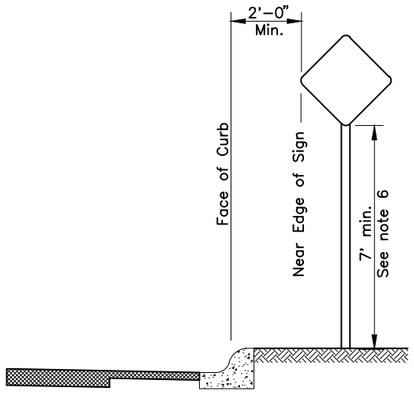
WITHOUT GUARDRAIL

SUBGRADES 24' TO 28', ALL SLOPES

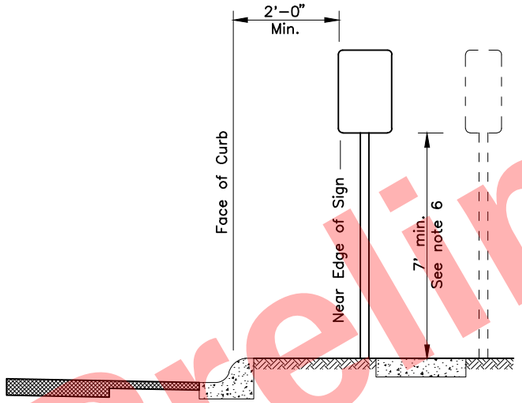


WITH GUARDRAIL

ALL SUBGRADES, ALL SLOPES

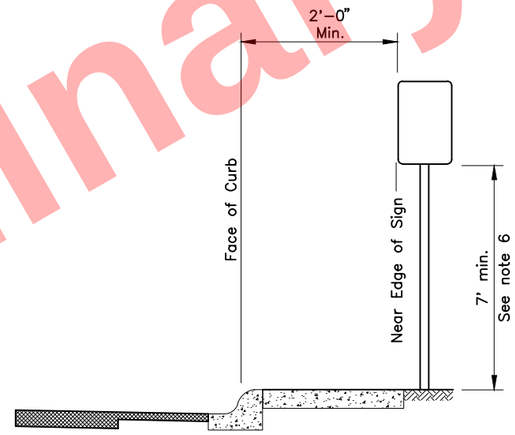


CURB WITHOUT SIDEWALK

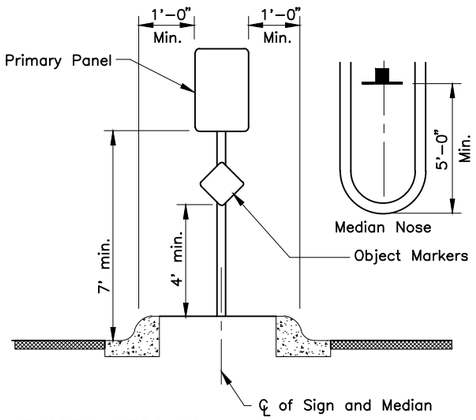


CURB WITH PARKWAY AND SIDEWALK

(If R/W width permits, signs should be placed behind sidewalk.)

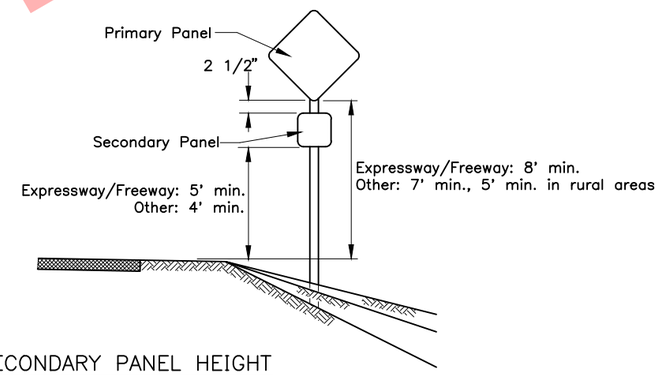


CURB WITH SIDEWALK WITHOUT PARKWAY



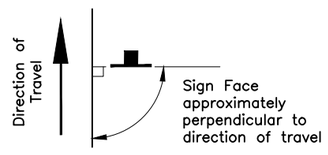
RAISED MEDIANS

Minimum 4' Width for Signing



SECONDARY PANEL HEIGHT

ALL TWO PANEL MOUNTING



SIGN POSITIONING

GENERAL NOTES

1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6' where shoulder width is 6' or greater.
2. Add 6" to mounting height on unpaved roads.
3. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
4. 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.
5. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.
6. Minimum mounting height is 7'-0" where parking or pedestrian movements are likely to occur, or where sings extend over sidewalks.
7. For construction signs in rural areas, mounting height shall be 7' minimum.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

POST MOUNTED SIGN
OFFSET AND HEIGHT

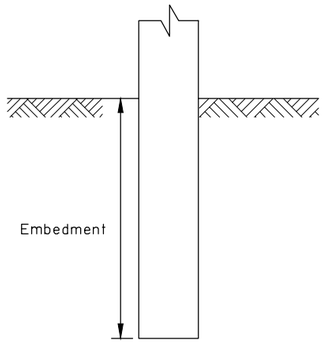
Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

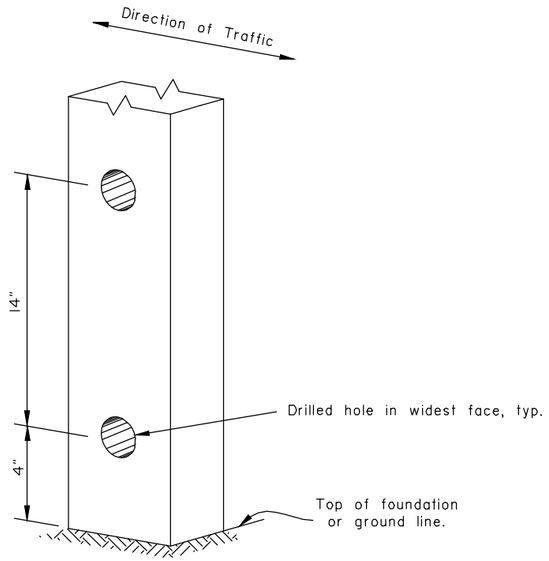
Adoption Date: 7/17/2020

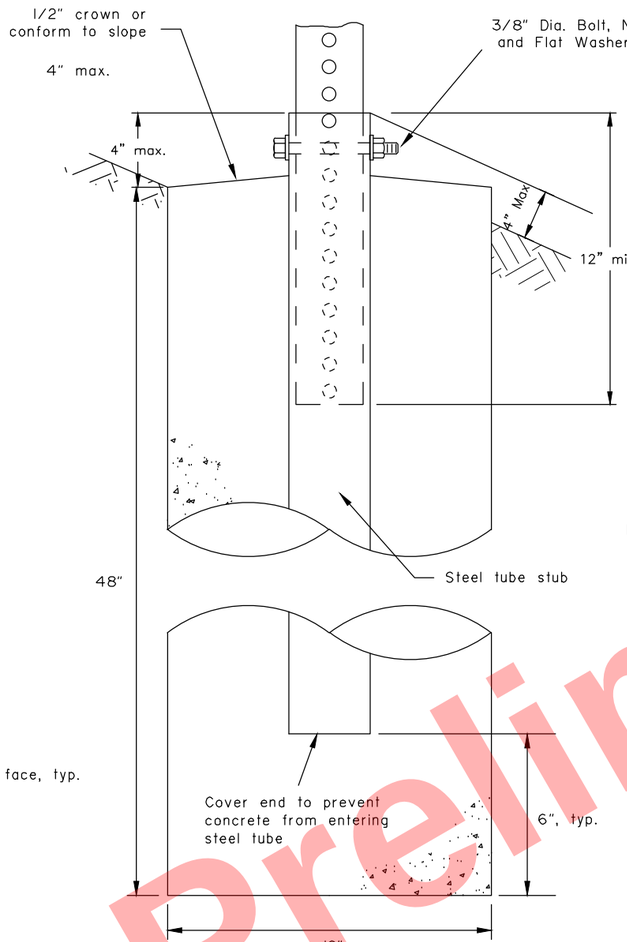
Last Code and Stds. Review
By: KLK Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030

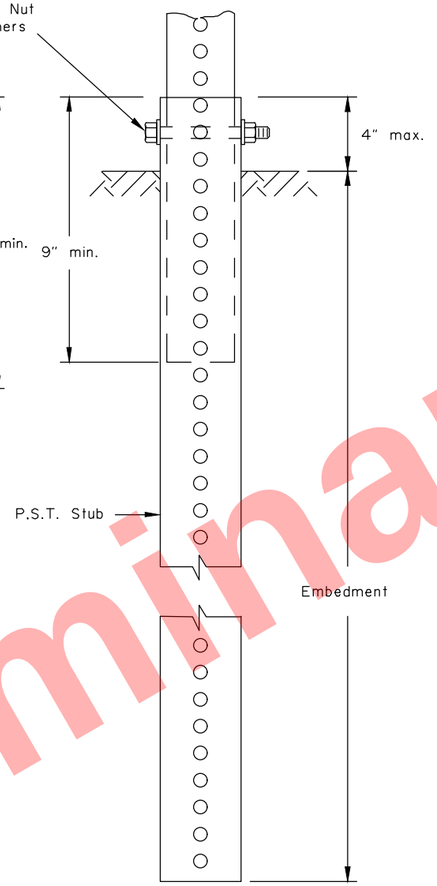
S-05.02







SLEEVE TYPE
CONCRETE FOUNDATION



SLEEVE TYPE*
SOIL EMBEDMENT

GENERAL NOTES:

1. Sign shall be placed symmetrically around posts and refer to Standard Plan S-00 for sign framing 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. Concrete shall be class B.
5. Do not use the supports on this drawing for multiple support signs if supports are separated by more than 7 feet.
6. Treat all field cuts and field drilled holes in wood posts in accordance with Section 730-2.04 of the Standard Specifications.

SIGN POST SPACING NOTES:

1. Install sign support in accordance with the table below, 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 tables below 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 Plan S-31 for frangible couplings, hinges, and foundations for tube and W-shape sign supports.

WOOD SIGN POSTS			
SIZE	HOLE DIA.	EMBEDMENT*	NO. OF POSTS WITHIN 7 Ft. PATH
4"x4"	NONE	4'-1"	2
4"x6"	1 1/2"	5'-3"	2
6"x6"	1 1/2"	4'-9"	1
6"x8"	3"	4'-9"	1

* Embedment depth applies in both strong and weak soil.

WOOD POSTS

PERFORATED STEEL TUBES (P.S.T.)		
POST SIZE	Embedment Depth	No. of P.S.T.s permitted within 7 ft path
1 1/2" x 1 1/2"	4'-8"	2
1 3/4" x 1 3/4"	4'-6"	2
2" x 2"	4'-3"	2
2 1/4" x 2 1/4"	5'-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

TUBE SIGN POST SPACING								
Sign Width (feet)	No. of Posts	Distance Between Posts	Sign Overhang	Post Type				Notes
				P.S.T.	Wood	Steel Tube	W-Shape	
0.5 to 4.0	1	-	0.5W	X	X	X		See Note 2.
4.5 to 10.0	2	0.6W	0.2W	X	X	X		See Note 3.
10.5 to 11.0	2	6	Varies	X	X	X		See Note 3.
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	

TUBE SIGN POST SPACING

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN

LIGHT SIGN STRUCTURE
POST EMBEDMENT

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

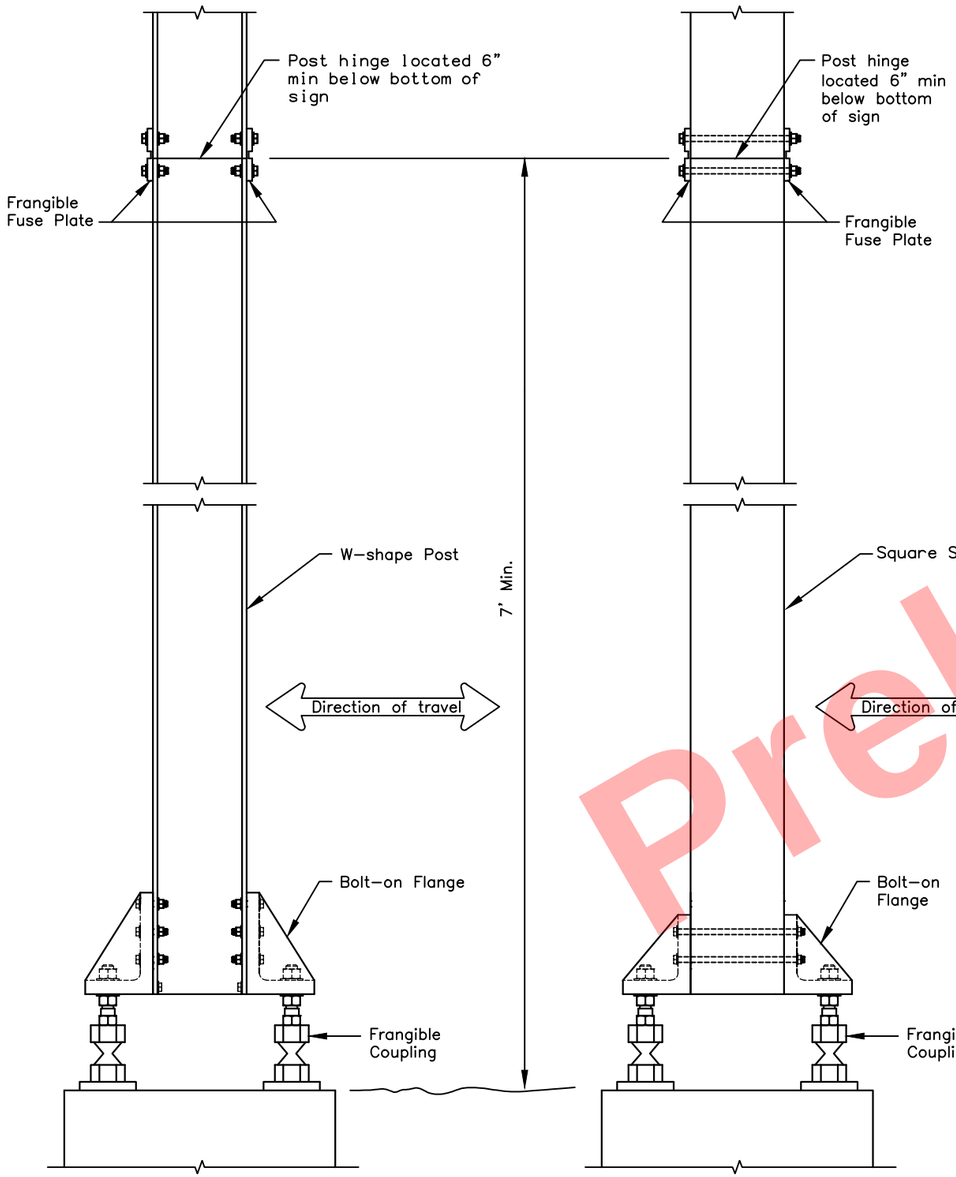
Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

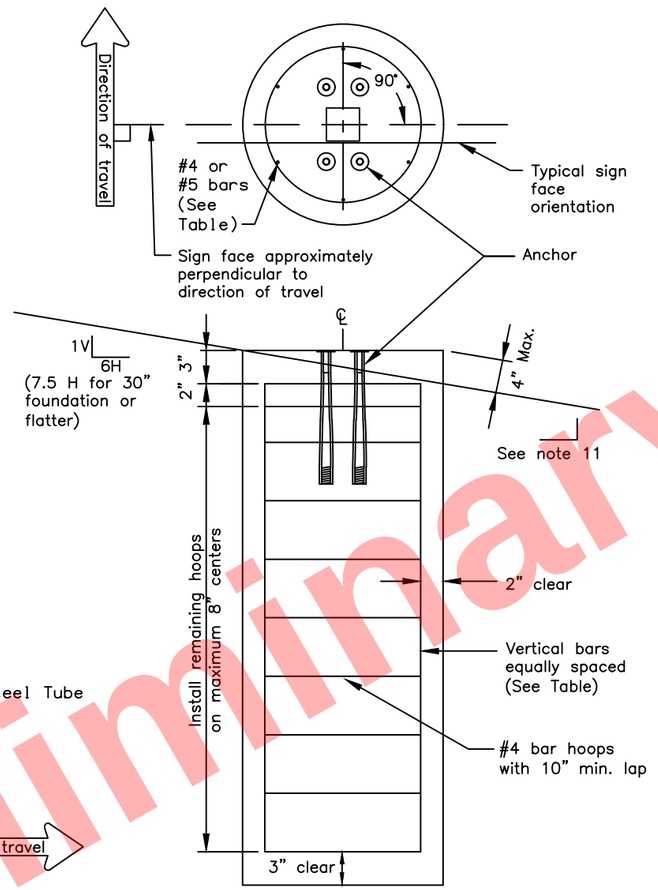
S-30.05

NOTE:
Install hinges when more than one post is used to support a sign. Do not install hinges on single post installations.



FRANGIBLE COUPLING SYSTEM FOR W–SHAPE POST

FRANGIBLE COUPLING SYSTEM FOR SQUARE STEEL TUBES



SIGN POST FOUNDATION
See Table for depth and diameter

POST SIZE & TYPE	FOUNDATION *			REINFORCEMENT					
	DIA.	MIN. DEPTH	CY^3 CONC.	VERTICAL BARS QTY.	VERTICAL BARS SIZE	VERTICAL BARS LGTH.	HOOPS QTY.	HOOPS SIZE	HOOPS DIA.
2 1/2" TUBE	1'–6"	6'–0"	0.39	7	#5	5'–6"	10	#4	1'–2"
3" TUBE	1'–6"	6'–0"	0.39	7	#5	5'–6"	10	#4	1'–2"
3 1/2" TUBE	1'–6"	6'–0"	0.39	7	#5	5'–6"	10	#4	1'–2"
4" TUBE	2'–6"	6'–0"	1.09	8	#8	5'–6"	10	#4	2'–2"
4 1/2" TUBE	2'–6"	6'–0"	1.09	8	#8	5'–6"	10	#4	2'–2"
5" TUBE	2'–6"	6'–0"	1.09	8	#8	5'–6"	10	#4	2'–2"
W6 x 9	2'–6"	6'–0"	1.09	8	#8	5'–6"	10	#4	2'–2"
W6 x 12	2'–6"	6'–0"	1.09	8	#8	5'–6"	10	#4	2'–2"
W6 x 15	3'–0"	6'–6"	1.70	8	#11	6'–0"	12	#4	2'–8"
W6 x 30	3'–0"	7'–6"	1.96	8	#11	7'–0"	13	#4	2'–8"

FOUNDATION TABLE

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

GENERAL NOTES

1. Furnish sign posts with NCHRP 350 compliant frangible couplings designed to break away safely when struck from any direction. There is no MASH compliant device at this time. See SPDR report for more info.
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. Do not use round pipes.
5. Install the components of the breakaway system, including hinges, in accordance with the written instructions of the system manufacturer.
6. Use Class A, B or W concrete conforming to Sections 501 or 550 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.
11. Special grading detail and/or shielding may be required to maintain 4" maximum clear distance.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

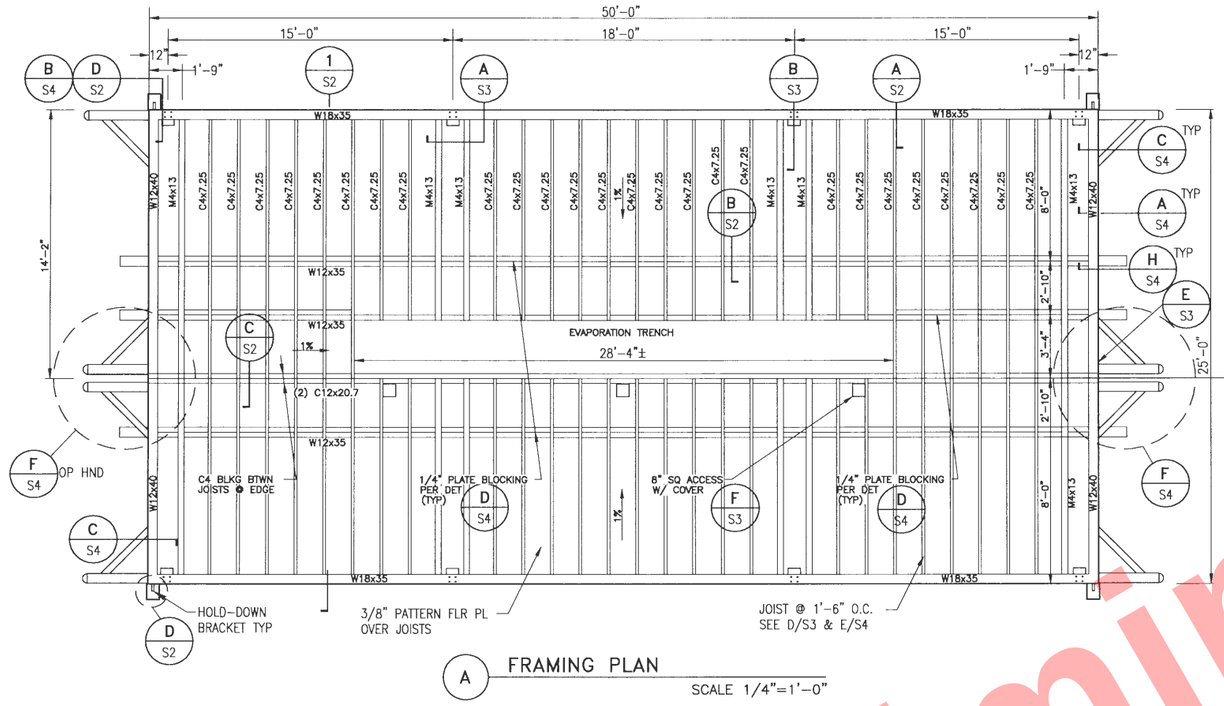
SIGN POST BASE AND FOUNDATION

Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

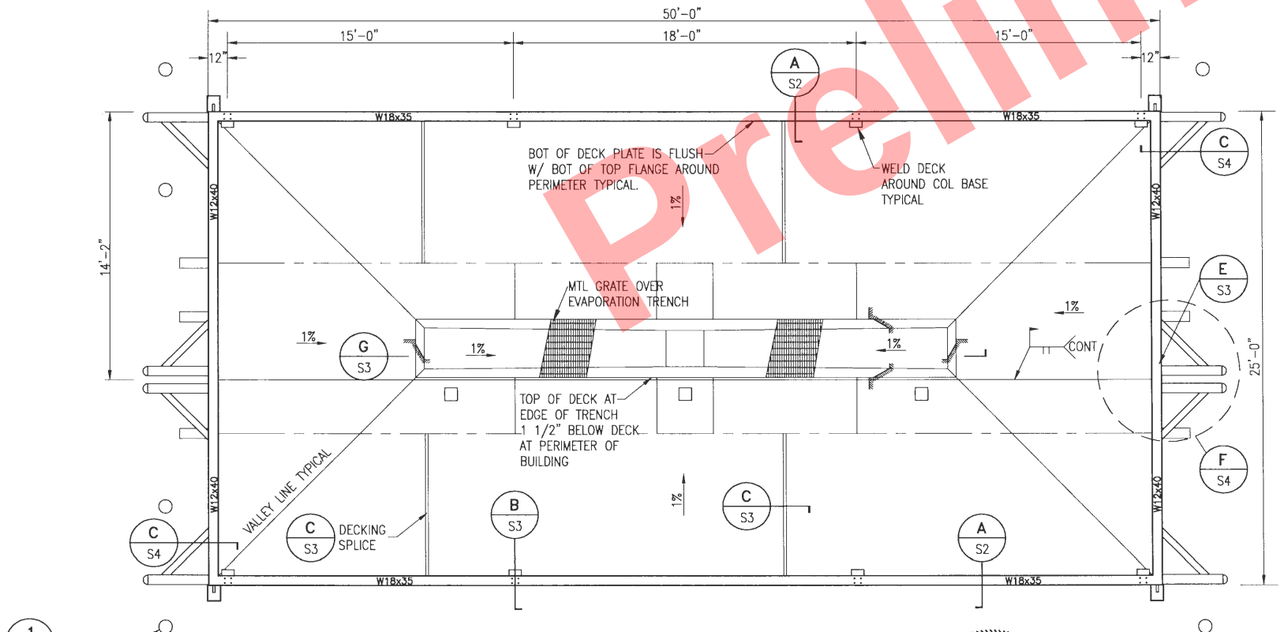
Last Code and Stds. Review
By: KLK, MJM Date: 7/8/2020

Next Code and Standards Review Date: 7/8/2030



A FRAMING PLAN

SCALE 1/4"=1'-0"



B DECK PLAN

SCALE 1/4"=1'-0"

DATE ORIGINALLY STAMPED 7-2-07

STATE OF ALASKA 49TH Duane H. Anderson CE 4774 REGISTERED PROFESSIONAL ENGINEER

STRUCTURAL STEEL AND CONNECTORS:

1. STRUCTURAL STEEL SHALL CONFORM TO IBC CHAPTER 22, FOR ASTM SPECIFICATION A-36, Fy = 36 ksi EXCEPT WHERE NOTED OTHERWISE. ROLLED SHAPES SHALL BE ASTM A992, 50 ksi YIELD.
2. STEEL TUBING (TS) SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46 ksi.
3. DESIGN FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE IBC CHAPTER 22, DIVISION IX, ALLOWABLE STRESS DESIGN.
4. ALL BOLTS (UON) SHALL BE A325 HIGH STRENGTH BOLTS IN CONFORMANCE WITH AISC STANDARD "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS"
5. MACHINE BOLTS SHALL CONFORM TO ASTM 307, UNLESS NOTED OTHERWISE AND SHALL BE PROVIDED STANDARD HEX HEAD NUTS CONFORMING TO ASTM A563, GRADE A AND CIRCULAR STEEL WASHERS CONFORMING TO ASTM F436.

WELDING:

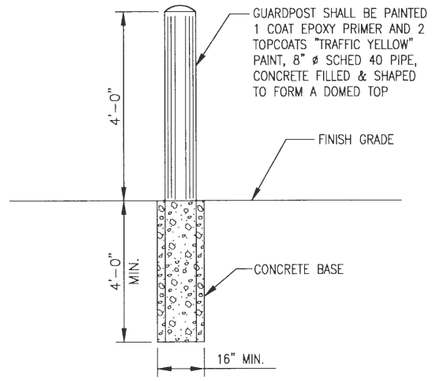
1. ALL WELDING SHALL CONFORM TO IBC CHAPTER 22 AND AWS D1.1
2. ALL FAYING SURFACES SHALL BE CONTINUOUSLY WELDED WITH 3/16" FILLET MINIMUM UNLESS OTHERWISE NOTED. ELECTRODES SHALL BE A.W.S. E-70.
3. PROVIDE ADEQUATE LATERAL BRACING FOR STRUCTURE DURING FABRICATION.

INSULATION:

1. AT UNDERSIDE OF FLOOR PLATE & ON JOIST FRAMING: SPRAY APPLY "URETHANE" FOAM INSULATION TO "R-14" CAPACITY AFTER FABRICATION.

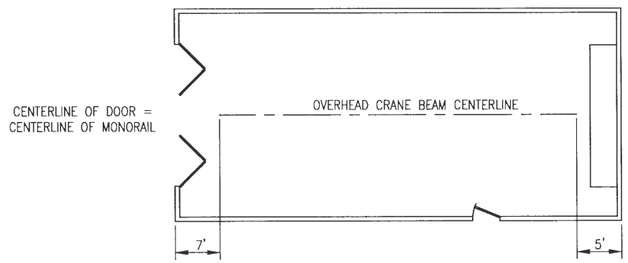
PAINTING:

1. PAINT ALL COMPONENTS PER SPEC SECTION 05121. FLOOR COLOR SHALL BE GRAY.



1 BOLLARD DET

SCALE: NTS



C OVERHEAD CRANE (MONORAIL)

NOT TO SCALE

AS-BUILT 10/2012 S1 OF S5

BY	DATE	REVISION
SJF	10-4-12	AS-BUILT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
ALASKA
NIGHTMUTE AIRPORT IMPROVEMENTS
PROJECT No. 51809
AIP No. 3-02-0195-001
SNOW REMOVAL EQUIPMENT BUILDING
FRAMING AND DECK PLANS

DATE: 03/14/2008
SHEET: S1 OF S5

Designed By: DHA
Drawn By: D. PARADAN
Checked By: CHECKER

Date Revised:
Layout Name: FRAMING S-1
File Path and Name: W:\Projects\Nightmute\Nightmute Airport Improvements 51809\As-Built\GT Sheet S1.dwg
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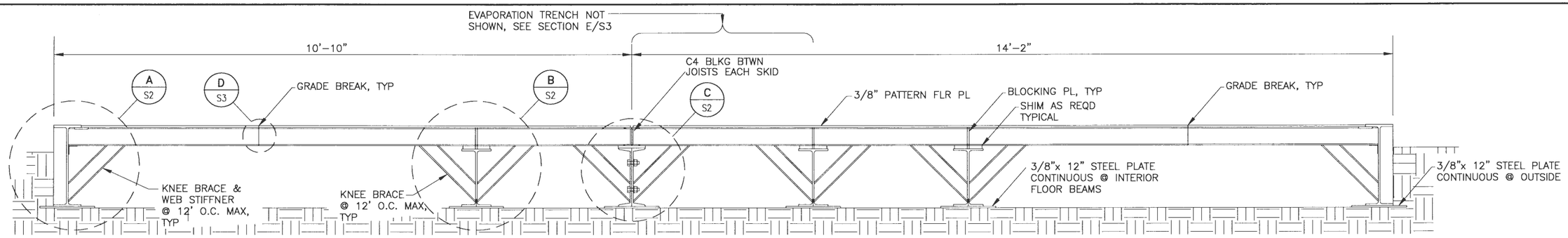
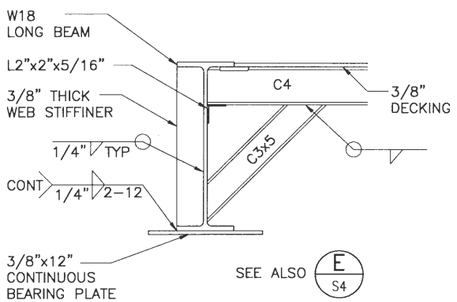
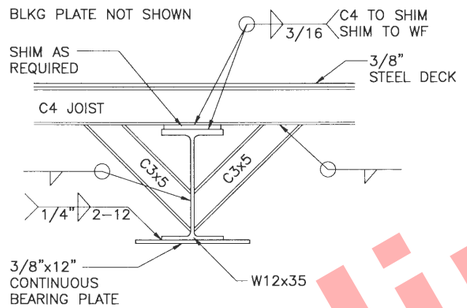


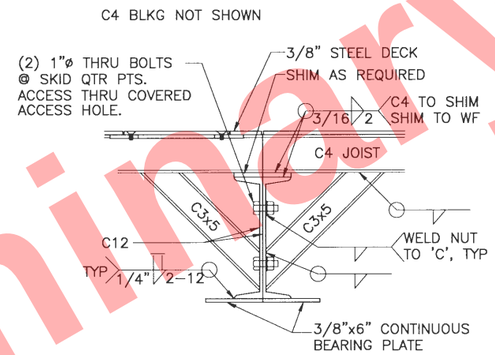
1 TYPICAL SKID SECTION

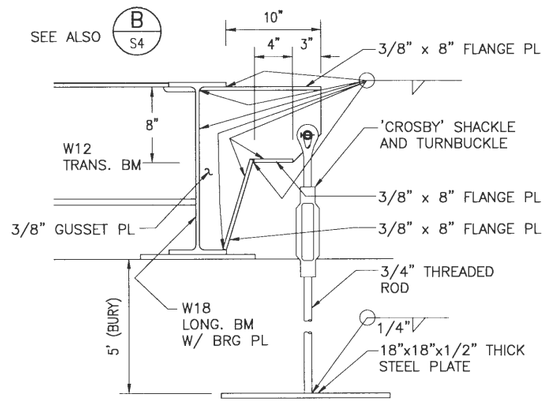
SCALE 1"=1'–0"

NOTE: BOTTOM OF FLOOR BEAMS AT SAME ELEVATION.









A TYP BRACING DET @ EXTERIOR

SCALE 1–1/2"=1'–0"

B TYP BRACING DET @ INTERIOR

SCALE 1–1/2"=1'–0"

C TYP SKID SPLICE DETAIL

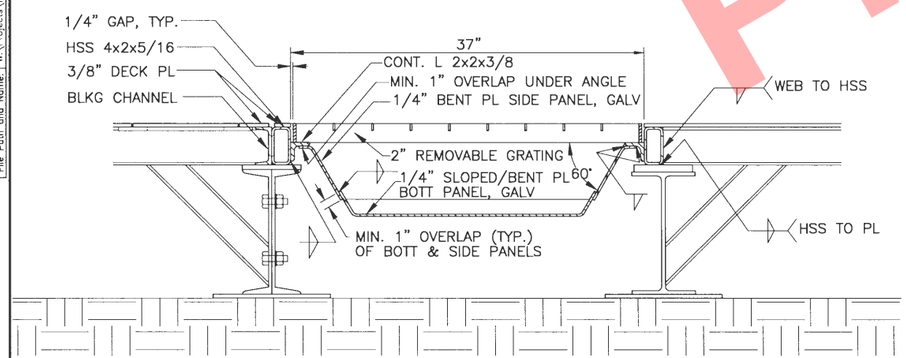
SCALE 1–1/2"=1'–0"

D TYP JACKING POINT & HOLD–DOWN DET

SCALE 1–1/2"=1'–0"

NOTES:

1. CHANCE HELICAL WITH 2 7/8"ø SHAFT, 10" HELIX WITH 8' BURY MAY MAY BE USED IN LIEU OF TURNBUCKLE/ SHACKLE DETAIL
2. BELOW GRADE STEEL SHALL BE HOT DIP GALV AFTER FABRICATION



E EVAP. TRENCH CROSS–SECTION

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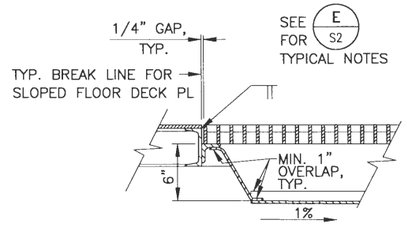

F EVAP. TRENCH SECTION

SCALE 1 1/2"=1'–0"

DATE ORIGINALLY STAMPED 7-2-07

STATE OF ALASKA 49TH Duane H. Anderson CE 4774 REGISTERED PROFESSIONAL ENGINEER

AS-BUILT 10/2012 S2 OF S5

BY	DATE	REVISION
SJF	10-4-12	AS-BUILT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
ALASKA
NIGHTMUTE AIRPORT IMPROVEMENTS
PROJECT No. 51809
AIP No. 3-02-0195-001
SNOW REMOVAL EQUIPMENT BUILDING
STRUCTURAL DETAILS

DATE: 03/14/2008
SHEET: S2 OF S5

Designed By: DHA
Drawn By: O. PARAOAN
Checked By: CHECKER

Date Revised: 10/10/2012, 1:24 PM
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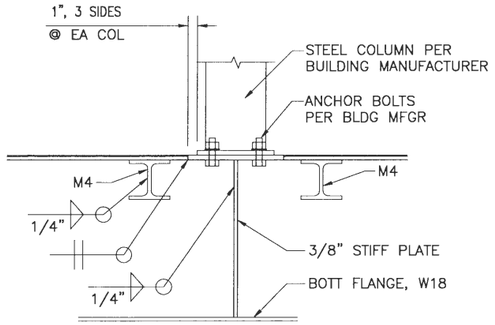

A COLUMN BEARING DETAIL

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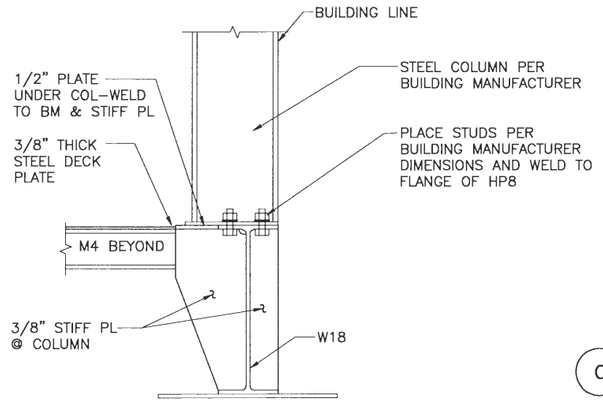

B COLUMN BEARING DETAIL

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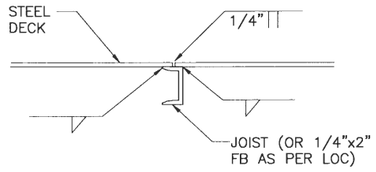

C SECTION @ DECK PLATE JOIINT

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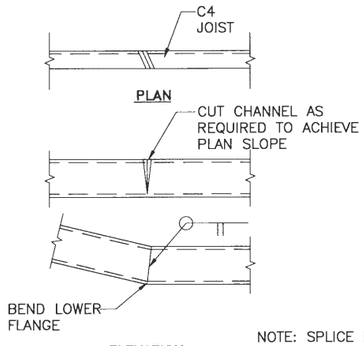
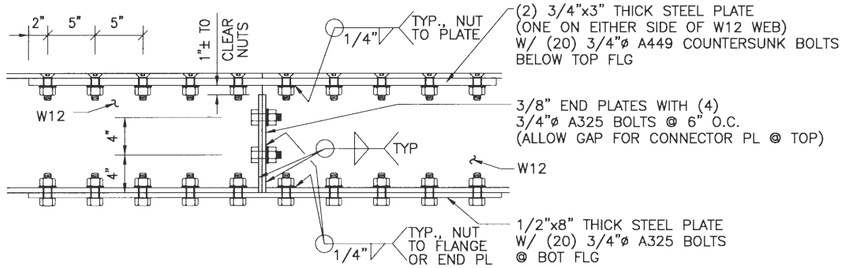


NOTE: SPLICE DECK PL
PER DET C/S4

D JOIST CUT & WELD @ SLOPE CHANGES DET

SCALE 1-1/2"=1'-0"



E TYPICAL SPLICE DETAIL

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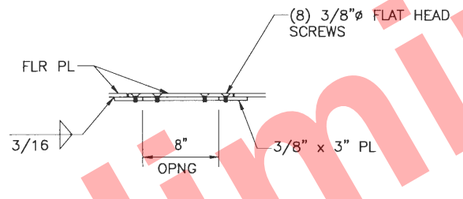

F FLOOR ACCESS HOLE DETAIL

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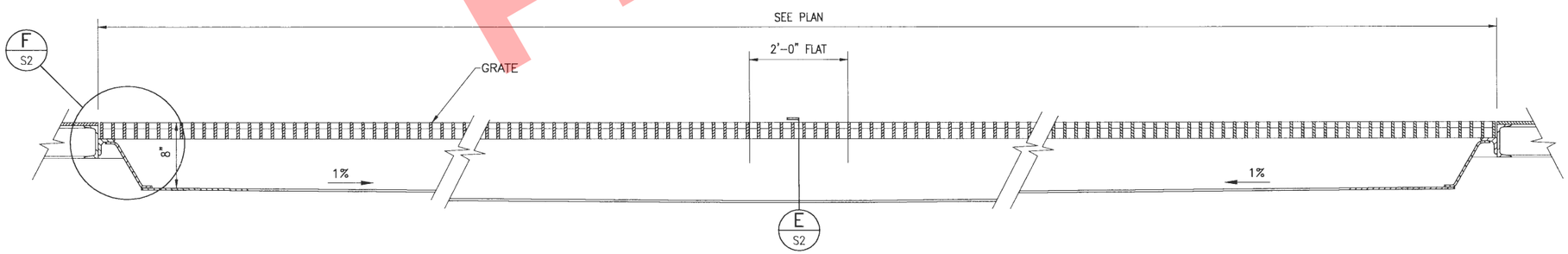

G LONGITUDINAL SECTION @ EVAPORATION TRENCH

SCALE 1-1/2"=1'-0"

DATE ORIGINALLY STAMPED 7-2-07

STATE OF ALASKA 49TH Duane H. Anderson CE 4774 REGISTERED PROFESSIONAL ENGINEER

AS-BUILT 10/2012 S3 OF S5

BY	DATE	REVISION
SJF	10-4-12	AS-BUILT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
ALASKA
NIGHTMUTE AIRPORT IMPROVEMENTS
PROJECT No. 51809
AIP No. 3-02-0195-001
SNOW REMOVAL EQUIPMENT BUILDING
STRUCTURAL DETAILS

DATE: 03/14/2008
SHEET: S3 OF S5

Designed By: DHA
Drawn By: O. PARADAN
Checked By: CHECKER
Date Revised:
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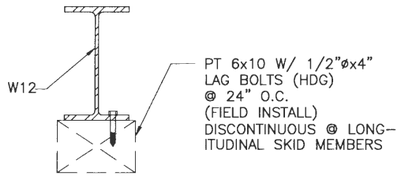
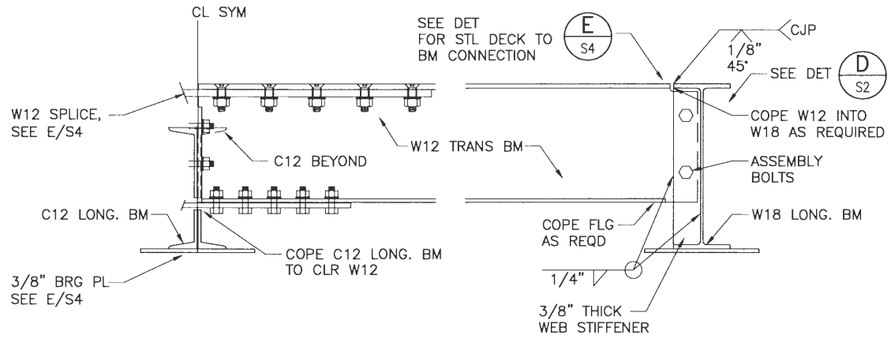
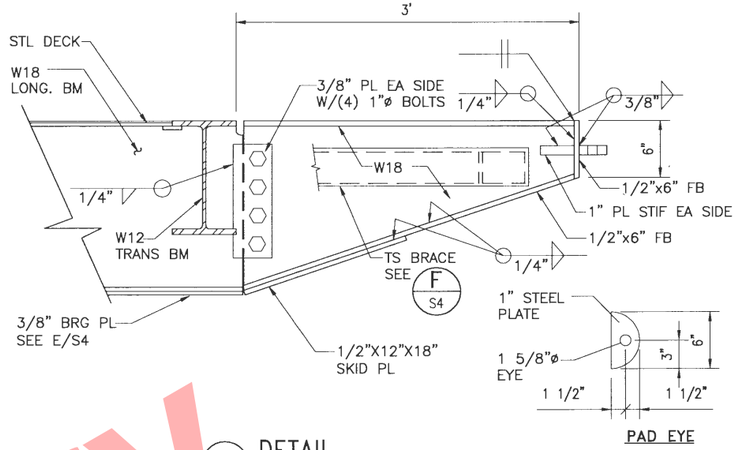




A TRANS BEAM DETAIL

SCALE 1–1/2"=1'–0"



B LONGITUDINAL/TRANS BEAM CONN.

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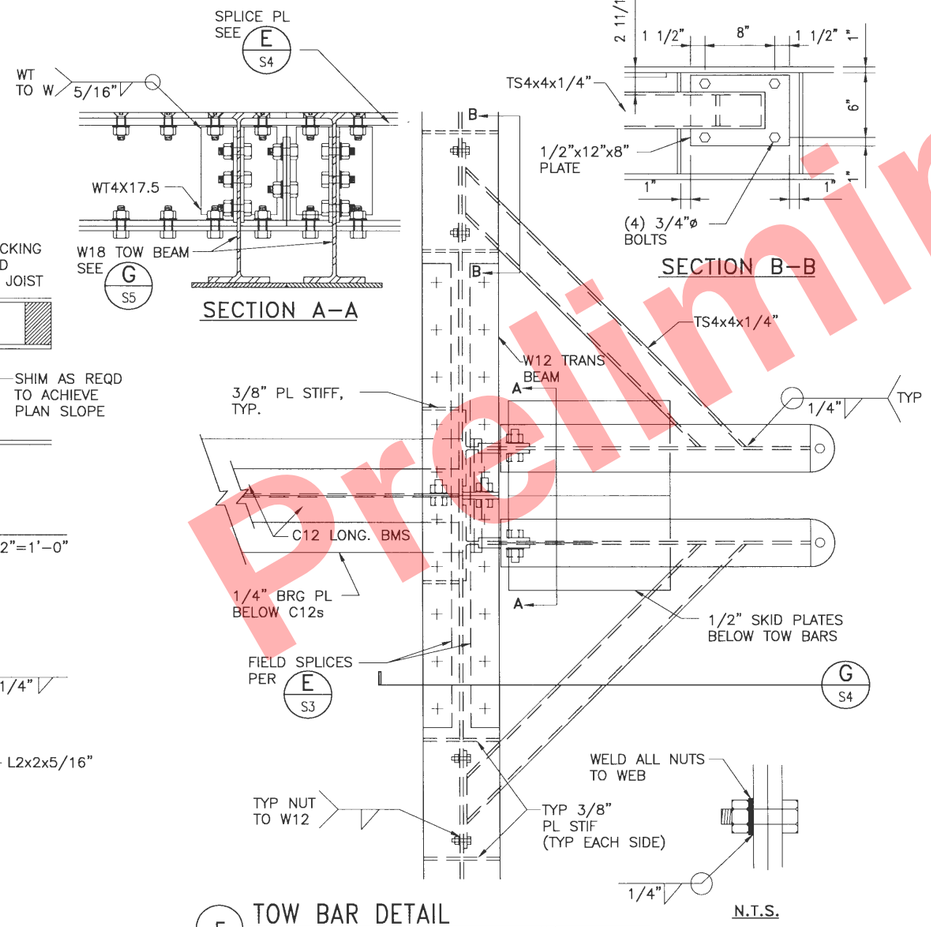
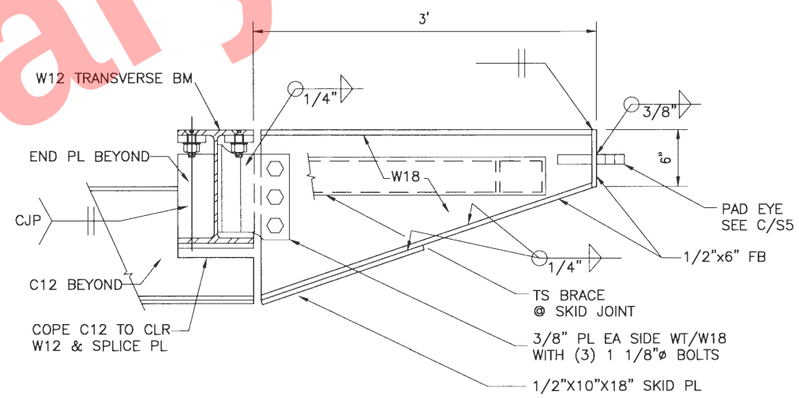
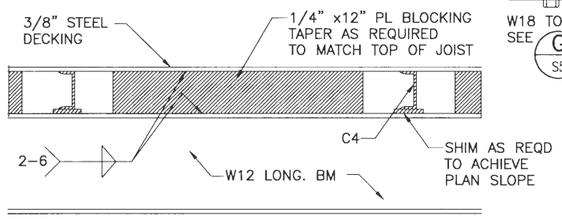


C DETAIL

SCALE 1–1/2"=1'–0"





D TYPICAL BLOCKING DETAIL

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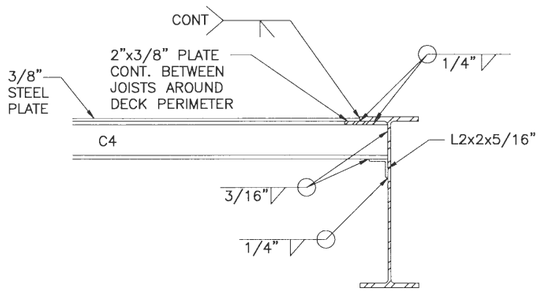
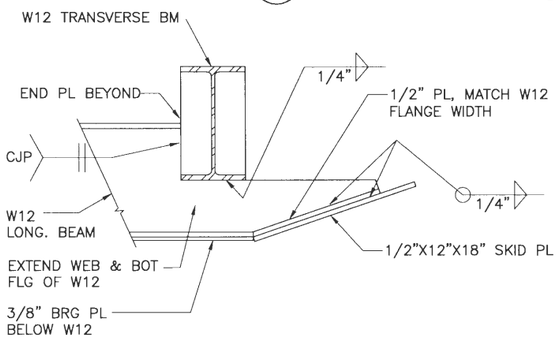


E TYPICAL JOIST CONNECTION

SCALE 1–1/2"=1'–0"

F TOW BAR DETAIL

SCALE 1–1/2"=1'–0"



G DETAIL

SCALE 1–1/2"=1'–0"

H DETAIL

SCALE 1–1/2"=1'–0"

DATE ORIGINALLY STAMPED 7-2-07

STATE OF ALASKA 49TH Duane H. Anderson CE 4774 REGISTERED PROFESSIONAL ENGINEER

BY	DATE	REVISION
SJF	10-4-12	AS-BUILT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
ALASKA
NIGHTMUTE AIRPORT IMPROVEMENTS
PROJECT No. 51809
AIP No. 3-02-0195-001
SNOW REMOVAL EQUIPMENT BUILDING
STRUCTURAL DETAILS

DATE: 03/14/2008
SHEET: S4 OF S5

AS-BUILT 10/2012 S4 OF S5

Designed By: DHA
Drawn By: O. PARAMON
Checked By: CHECKER
Date Revised:
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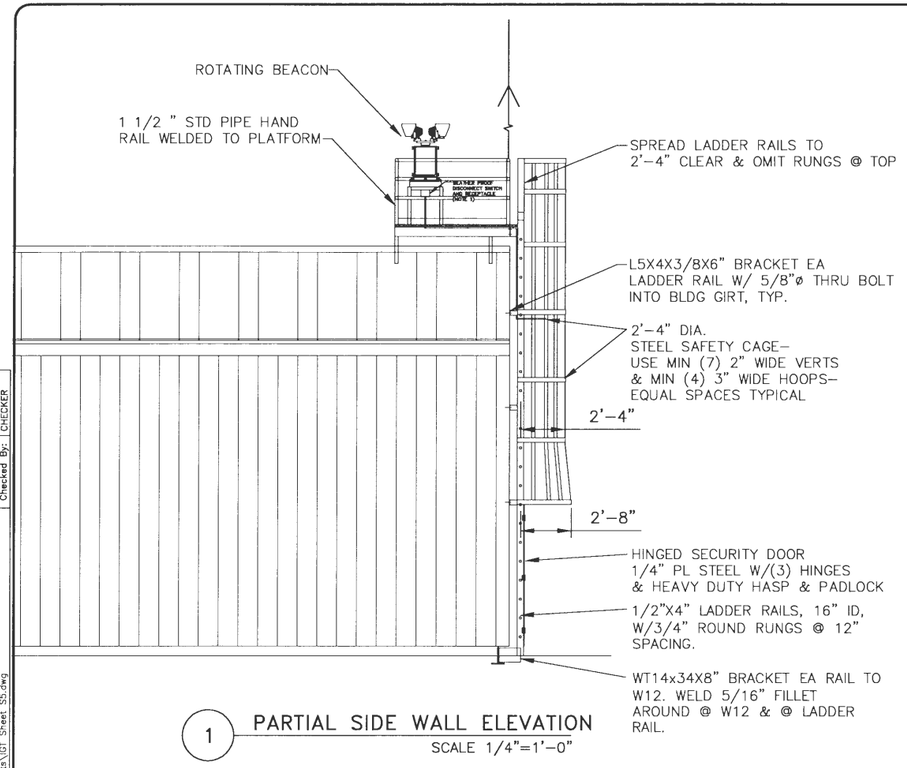
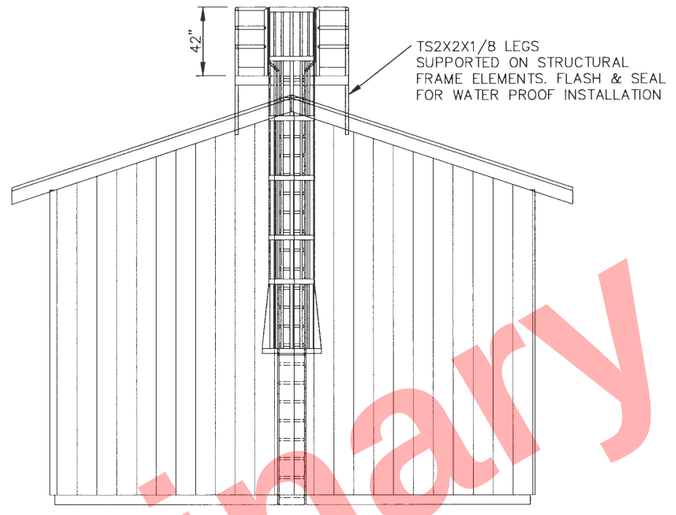


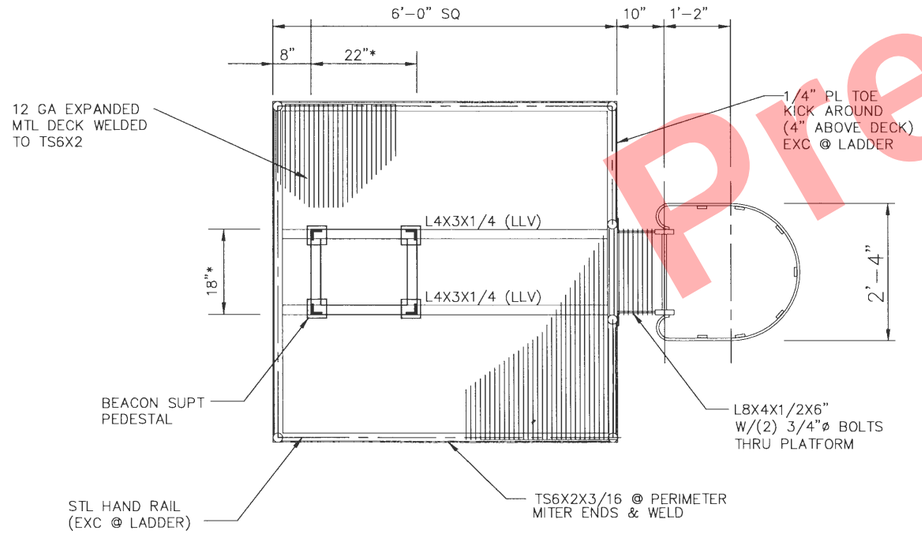
1 PARTIAL SIDE WALL ELEVATION
SCALE 1/4"=1'-0"



2 END WALL ELEVATION
SCALE 1/4"=1'-0"

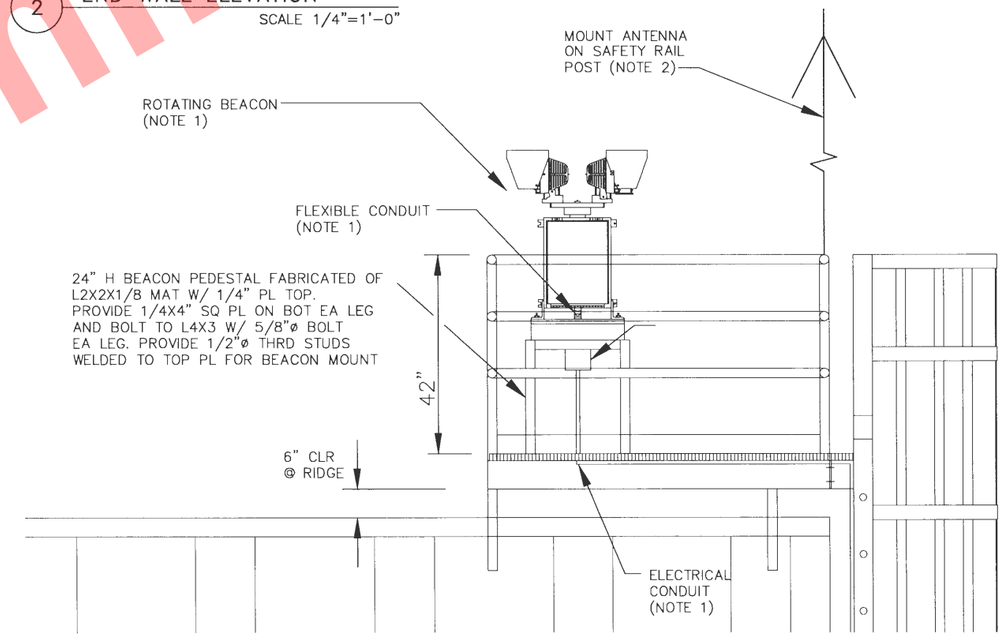
NOTES:

1. CONDUIT FOR BEACON WILL BE FASTENED TO THE PLATFORM AND LADDER, AND WILL TERMINATE AT A HANDHOLE (BY OTHERS) FIVE FEET FROM A REAR CORNER OF THE BUILDING. REFER TO AIRFIELD ELECTRICAL DOCUMENTS FOR THE HANDHOLE LOCATION AND FOR SPECIFICATIONS FOR THE BEACON, CONDUIT AND WIRING, AND WEATHERPROOF DISCONNECT SWITCH AND RECEPTACLE.
2. REFER TO AIRFIELD ELECTRICAL DOCUMENTS FOR ANTENNA SPECIFICATIONS.



* ADJ DIM TO FIT BEACON PEDESTAL

A BEACON PLATFORM PLAN
SCALE 3/4"=1'-0"



B BEACON PLATFORM VIEW
SCALE 3/4"=1'-0"

DATE ORIGINALLY STAMPED 7-2-07

STATE OF ALASKA 49TH Duane H. Anderson DE 4774 REGISTERED PROFESSIONAL ENGINEER

AS-BUILT 10/2012 S5 OF S5

BY	DATE	REVISION
SJF	10-4-12	AS-BUILT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
ALASKA
NIGHTMUTE AIRPORT IMPROVEMENTS
PROJECT No. 51809
AIP No. 3-02-0195-001
SNOW REMOVAL EQUIPMENT BUILDING
BEACON PLATFORM & LADDER

DATE: 03/14/2008
SHEET: S5 OF S5

Designed By: DHA
Drawn By: D. PARAGAN
Checked By: CHECKER
Date Revised:
Layout Name: DETAIL S=.5
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