

4/09/2025, 12:54 PM

Date Revised: 4/09/2025, 12:54 PM

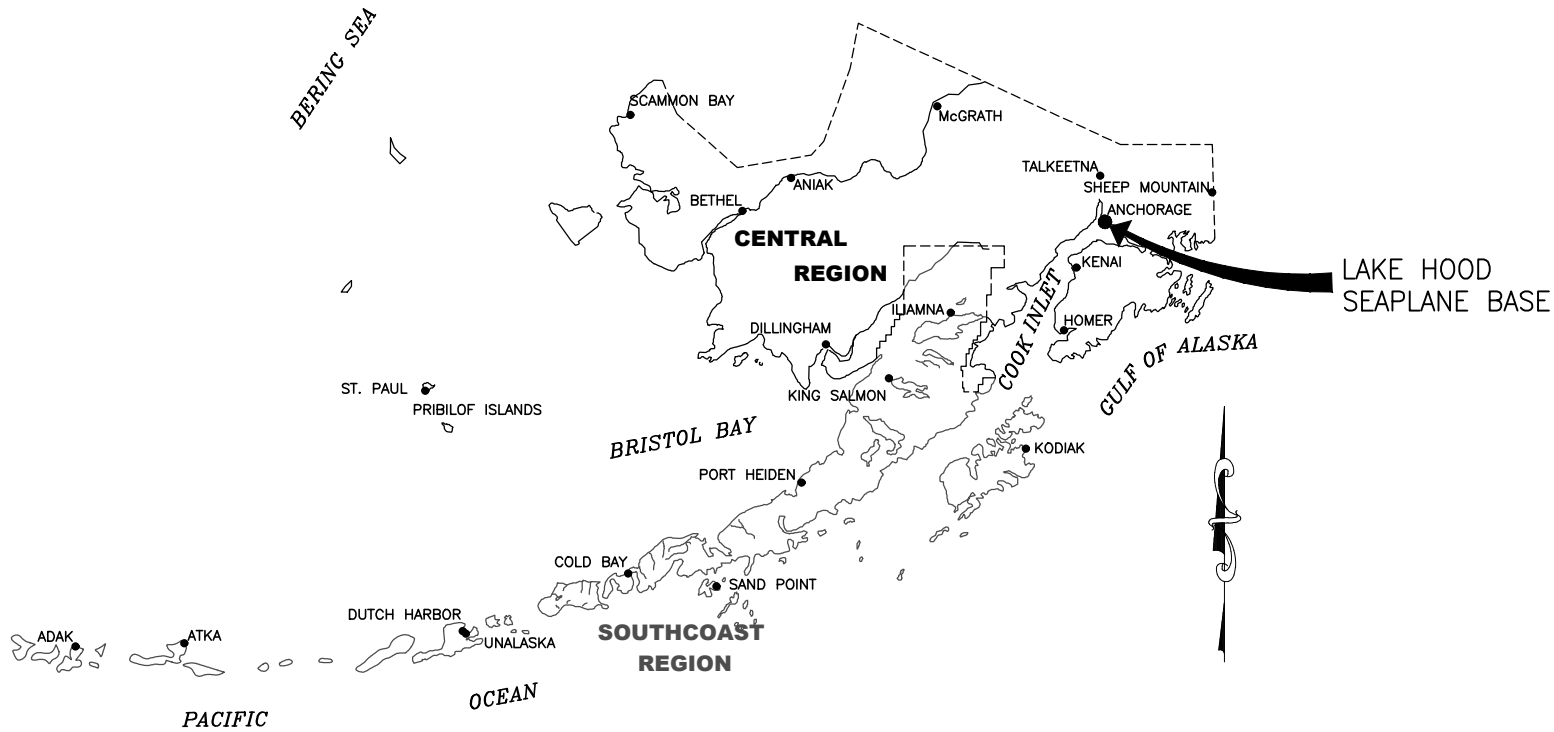
Layout Name: Cover

File Path and Name: W:\Projects\ALA Lake Hood\ANC ATCT Replacement Parking_00831\Civ3D\Planset\00831-ANC-Cover-Index-Est-Quantities.dwg

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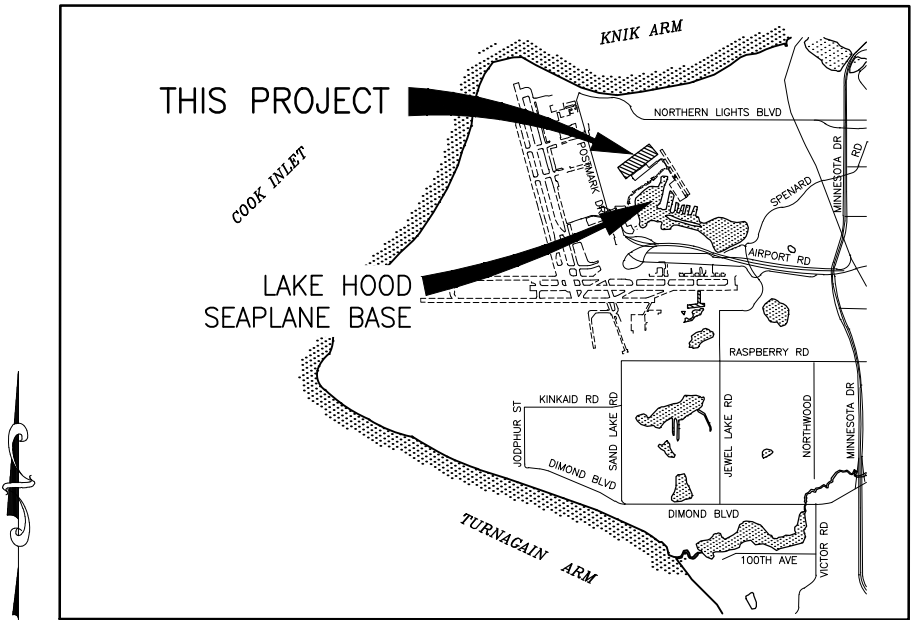
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ALASKA CENTRAL REGION
LOCATION MAP

NOT TO SCALE



VICINITY MAP

SCALE 1"= 1/2 MILE
T 13 N, R 14 W
SEWARD MERIDIAN
U.S.G.S. ANCHORAGE A-8

CONSTRUCTION PLANS
LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
FAA MEMORANDUM OF AGREEMENT
No. 697DCK-22-T-00001

PS&E
APRIL 2025

CONCUR	DATE
JOEL G. ST. AUBIN, P.E.	REGIONAL CONSTRUCTION ENGINEER
APPROVED	DATE
LUKE BOWLAND, P.E.	REGIONAL PRECONSTRUCTION ENGINEER
APPROVED	DATE
STEVEN RZEPKA, P.E.	AVIATION DESIGN GROUP CHIEF
APPROVED	DATE
TADD ISAACSON, P.E.	PROJECT MANAGER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590			LAKE HOOD SEAPLANE BASE ANCHORAGE, ALASKA ANC ATCT REPLACEMENT PARKING PROJECT No. CRMBS00831 697DCK-22-T-00001 COVER		DATE: 04/09/2025
BY	DATE	REVISION	SHEET: 1 OF 38		

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LEGEND	3	CULVERT END SECTIONS	D-06.10		
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PROJECT LAYOUT PLAN DETAIL	8	BRACING FOR SIGNS MOUNTED ON SINGLE POST	S-01.02		
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LEGEND

ABBREVIATIONS

DESCRIPTION

EXISTING

PROPOSED

AIRPORT PROPERTY BOUNDARY

BOLLARD / FLEXIBLE DELINEATOR

BUILDING

CENTERLINE (RUNWAY/TAXIWAY)

CONTOURS

CULVERT WITH END SECTIONS

DETAIL CALLOUT

ELECTRICAL LINE (UNDERGROUND)

ELECTRICAL OUTLET

FENCE (CHAIN-LINK)

FENCE (WOVEN WIRE)

GEOTEXTILE, SEPARATION

GRADE BREAK

IDENTIFICATION BUBBLE

LABEL (PIPE CULVERT)

LIGHT POLE

MANHOLE (STORM, TOP INTAKE)

OFA LINE

PAVEMENT/SHOULDER (EDGE)

SIGN POST/MARKER

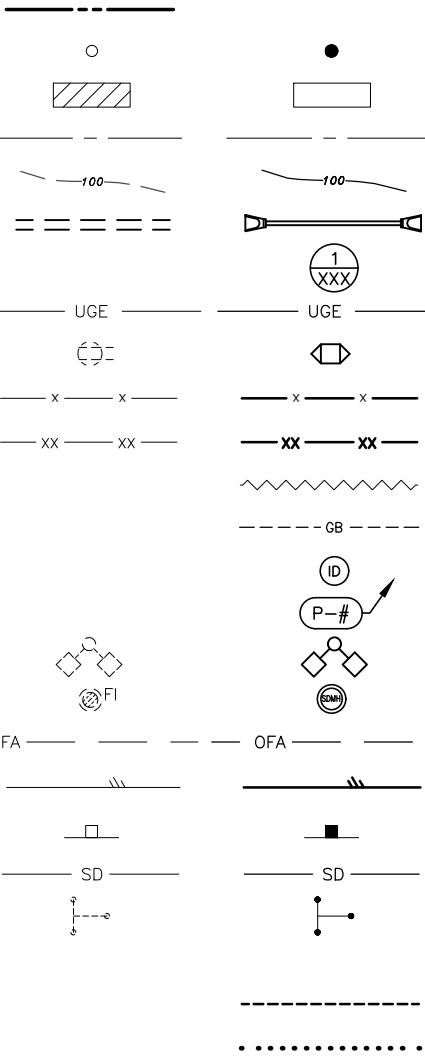
STORM DRAIN LINE (UNDERGROUND)

TIE-DOWN

TOE OF SLOPE

CUT

FILL



AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	LB	POUND
ABN-UE	ABANDONED UNDERGROUND ELECTRIC LINE	LF	LINEAR FOOT
APR	APRON	LS	LUMP SUM
ATCT	AIR TRAFFIC CONTROL TOWER	LT	LEFT
ASP	ALASKA STANDARD PLANS	MAINT	MAINTENANCE
AWOS	AUTOMATED WEATHER OBSERVING SYSTEM	MAX	MAXIMUM
BOP	BEGINNING OF PROJECT	MIN	MINIMUM
BVCS	BEGIN VERTICAL CURVE STATION	MMA	METHYL METHACRYLATE
BVCE	BEGIN VERTICAL CURVE ELEVATION	MPH	MILES PER HOUR
CAA	CORRUGATED ALUMINUM ALLOY	N	NORTHING, NORTH
CABC	CRUSHED AGGREGATE BASE COURSE	NOM	NOMINAL
CF	CUBIC FEET	NTS	NOT TO SCALE
CL, ☿	CENTERLINE	NIC	NOT IN CONTRACT
CPEP	CORRUGATED POLYETHYLENE PIPE	NO	NUMBER
CS	CONTINGENT SUM	NW	NORTHWEST
CSP	CORRUGATED STEEL PIPE	OC	ON CENTER
CSPP	CONSTRUCTION SAFETY AND PHASING PLAN	OFA	OBJECT FREE AREA
CY	CUBIC YARD	OC	ON CENTER
DIA, D	DIAMETER	OG	ORIGINAL GROUND
DEMO	DEMOLITION	PC	POINT OF CURVATURE
DOT	DEPARTMENT OF TRANSPORTATION	PG	PERFORMANCE GRADE
E	EASTING, EAST	PI	POINT OF INTERSECTION
EA	EACH	PST	PERFORATED STEEL TUBE
ELEV	ELEVATION	PT	POINT OF TANGENCY
EMBK	EMBANKMENT	PVI	POINT OF VERTICAL INTERSECTION
EOP	END OF PROJECT	RAP	RECYCLED ASPHALT PAVEMENT
ESCP	EROSION AND SEDIMENT CONTROL PLAN	RD	ROAD
EVCS	END VERTICAL CURVE STATION	REQ'D	REQUIRED
EVCE	END VERTICAL CURVE ELEVATION	RT	RIGHT
FES	FLARED END SECTION	SF	SQUARE FEET
FG	FINISHED GRADE	SS	SANITARY SEWER LINE
FT	FOOT	SW	SOUTHWEST
GA	GAUGE	STA	STATION
GALV	GALVANIZED	SY	SQUARE YARD
GB	GRADE BREAK	TW	TAXIWAY
HMA	HOT MIX ASPHALT	TYP	TYPICAL
HR	HOUR	UGE	UNDERGROUND ELECTRICAL LINE
ID	INSIDE DIAMETER	UGT	UNDERGROUND COMMUNICATION LINE
IN	INCHES	W	WEST
K	CURVATURE	W/	WITH

BY	DATE	REVISION

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
LEGEND

DATE:
04/09/2025
SHEET:
3 OF 38

4/09/2025, 12:54 PM

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Summary Tables 1

Layout Name: W:\Projects\MAA Lake Hood\ANC ATCT Replacement Parking 00831\Civ3D\Planset\00831-ANC-Cover-index-Est Quantities.dwg

Designed By: AAT

Drawn By: RUB

Checked By: TRI

D701.0X0.00XX PIPE SUMMARY																
PIPE		INLET			OUTLET			SLOPE	LENGTH (FT)			END SECTIONS	ALIGNMENT	CSPP PHASE	SHEET NO.	REMARKS
NUMBER	SIZE (IN)	STATION	OFFSET (FT)	INVERT	STATION	OFFSET (FT)	INVERT		D701.010.0018	D701.020.0018	D701.040.0024					
P-1	18	S-1		67.16	S-2		65.91	0.50%		250.0		0	STORM DRAIN	3	18	INSTALL INSULATION BOARD (TYP). SEE DETAILS 1/26
P-2	18	S-2		65.81	S-3		64.56	0.50%		250.0		0	STORM DRAIN	3	18	INSTALL INSULATION BOARD (TYP). SEE DETAILS 1/26
P-3	18	S-3		64.46	S-4		63.21	0.50%		250.0		0	STORM DRAIN	3	19	INSTALL INSULATION BOARD (TYP). SEE DETAILS 1/26
P-4	18	S-4		63.11	309+21.47	0	62.60	0.30%		172.0		1	STORM DRAIN	3	19	INSTALL INSULATION BOARD (TYP). SEE DETAILS 1/26
P-5	24	14+26.15	33.98LT	67.29	14+26.15	37.96RT	66.75	0.75%			71.9	2	RD	4	16	
P-6	24	16+31.73	30.74LT	66.48	16+31.73	35.71RT	66.19	0.44%			66.4	2	RD	4	16	
P-7	24	18+39.98	29.81LT	65.42	18+73.25	49.53RT	65.34	0.09%			86.2	2	RD	4	16	
P-10	24	46+32.12	183.94RT	62.10	46+78.32	179.59RT	61.84	0.56%			46.4	2	APRON	6	36	REFER TO SHEET 36
TP-1	18	109+57.02	38.73RT	75.65	109+56.79	37.91LT	75.21	0.57%	77.0			0	TEMP TW & APRON	1	AC4	
								TOTALS:	77	922	271					

D751.XXX.XXXX STRUCTURE SUMMARY										
STRUCTURE	STATION	OFFSET (FT)	RIM ELEVATION	DIAMETER (IN)	D751.010.0048	CASTING TYPE	ALIGNMENT	CSPP PHASE	SHEET NO.	REMARKS
S-1	300+00.00	0	74.04	48	1	24" ROUND, SLOTTED	STORM DRAIN	3	18	
S-2	302+50.00	0	71.79	48	1	24" ROUND, SLOTTED	STORM DRAIN	3	18	
S-3	305+00.00	0	69.54	48	1	24" ROUND, SLOTTED	STORM DRAIN	3	19	
S-4	307+50.00	0	67.79	48	1	24" ROUND, SLOTTED	STORM DRAIN	3	19	
TOTALS:					4					

F161.050.0008 8-FEET WOVEN-WIRE FENCE							
BEGIN STATION	OFFSET (FT)	END STATION	OFFSET (FT)	LENGTH (FT)	ALIGNMENT	SHEET NO	REMARKS
8+97.28	100.69L	10+97.24	102.53L	238.27	RD	15	WILDLIFE FENCE
10+97.24	102.53L	17+26.91	41.37L	640.65	RD	16	WILDLIFE FENCE
TOTAL:				878.925			

F162.010.0008 8-FEET CHAIN-LINK FENCE							
BEGIN STATION	OFFSET (FT)	END STATION	OFFSET (FT)	LENGTH (FT)	ALIGNMENT	SHEET NO	REMARKS
31+63.79	44.74RT	42+38.45	112.00LT	1388.71	APRON	20-21	SECURITY FENCE
42+86.70	64.00LT	43+69.98	82.09LT	85.22	APRON	21	SECURITY FENCE
42+38.45	112.00LT	42+86.70	64.00LT	96.25	APRON	21	PRIVACY FENCE
TOTAL:				1600			

F162.095.0000 TEMPORARY FENCE							
BEGIN STATION	OFFSET (FT)	END STATION	OFFSET (FT)	LENGTH (FT)	ALIGNMENT	SHEET NO	REMARKS
31+59.95	44.74RT	43+06.90	44.42RT	1183.74	APRON	AC9	CSPP
100+99.14	193.16LT	108+13.93	57.21RT	897.53	TEMP APRON	AC5	CSPP
TOTAL:				2081.26			

D760.010.0030 THAW PIPE, 1.5-INCH			
NUMBER	LENGTH	SHEET NO.	REMARKS
P-5	71.9	16	
P-6	66.4	16	
P-7	86.2	16	
P-10	46.4	36	
TP-1	76.6	AC4	
TOTALS:	348		

P165.010.0000 REMOVAL OF STRUCTURES					
STATION	OFFSET (FT)	ALIGNMENT	PHASE	SHEET NO.	REMARKS
18+65.57	15.48RT	RD	1	9	REMOVE 24-INCH PIPE WITH THAW PIPE (54.5 LF)
18+80.01	11.77RT	RD	1	9	REMOVE STANDARD SIGN
20+55.05	21.79LT	RD	1	9	REMOVE STANDARD SIGN
33+44.04	6.70RT	APRON	1	9	REMOVE STANDARD SIGN
34+91.27	6.92RT	APRON	1	9	REMOVE STANDARD SIGN
31+72.05	70.67RT	APRON	3	9	REMOVE TIE DOWN
32+16.99	70.83RT	APRON	3	9	REMOVE TIE DOWN
32+61.83	70.70RT	APRON	3	9	REMOVE TIE DOWN
37+56.87	70.49RT	APRON	3	9	REMOVE TIE DOWN
38+01.78	70.78RT	APRON	3	9	REMOVE TIE DOWN
42+06.56	70.52RT	APRON	3	9	REMOVE TIE DOWN
42+38.25	54.51RT	APRON	3	9	REMOVE BOLLARD
42+45.73	54.76RT	APRON	3	9	REMOVE BOLLARD
42+51.19	50.14RT	APRON	3	9	REMOVE BOLLARD
46+21.58	174.12RT	APRON	6	36	REMOVE 18" CMP (24.0 LF)
46+32.12	183.94RT	APRON	6	36	REMOVE 18" CMP AND THAW PIPE (46.4 LF)

			<div>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590</div>	<div>LAKE HOOD SEAPLANE BASE ANCHORAGE, ALASKA ANC ATCT REPLACEMENT PARKING PROJECT No. CRMBS00831 697DCK-22-T-00001 SUMMARY TABLES</div>	DATE: 04/09/2025
					SHEET: 5 OF 38
BY	DATE	REVISION			

P620.110.0000 INLAID MMA PAVEMENT MARKINGS (LONGITUDINAL, TRANSVERSE, AND GORE)								
BEGIN STATION	OFFSET (FT)	END STATION	OFFSET (FT)	AREA (SF)	ALIGNMENT	PHASE	SHEET NO	DESCRIPTION
3+25.00	12.0L	22+15.00	12.0L	625.2	RD CL	4	32	RD EDGE STRIPE/FOG/WHITE
3+25.00	12.0R	22+15.00	12.0R	631.4	RD CL	4	32	RD EDGE STRIPE/FOG/WHITE
3+25.00	0	22+15.00	0	1256.7	RD CL	4	32	RD CL STRIP/DOUBLE YELLOW
			TOTAL:	2513.3				

P650.010.0000 AIRCRAFT TIE-DOWN					
POINT #	BEGIN STATION	OFFSET (FT)	ALIGNMENT	SHEET NO	REMARKS
1	34+48.20	213.00LT	APRON	20	MEDIUM TIE-DOWN
2	34+98.20	213.00LT	APRON	20	MEDIUM TIE-DOWN
3	35+48.20	213.00LT	APRON	20	MEDIUM TIE-DOWN
4	35+98.20	213.00LT	APRON	20	MEDIUM TIE-DOWN
5	36+48.20	213.00LT	APRON	20	MEDIUM TIE-DOWN
6	36+98.20	213.00LT	APRON	20	MEDIUM TIE-DOWN
7	37+48.20	213.00LT	APRON	20	MEDIUM TIE-DOWN
8	37+98.20	213.00LT	APRON	20	MEDIUM TIE-DOWN
9	34+28.95	114.00LT	APRON	20	MEDIUM TIE-DOWN
10	34+78.95	114.00LT	APRON	20	MEDIUM TIE-DOWN
11	35+28.95	114.00LT	APRON	20	MEDIUM TIE-DOWN
12	35+78.95	114.00LT	APRON	20	MEDIUM TIE-DOWN
13	36+28.95	114.00LT	APRON	20	MEDIUM TIE-DOWN
14	36+78.95	114.00LT	APRON	20	MEDIUM TIE-DOWN
15	34+03.95	74.00LT	APRON	20	MEDIUM TIE-DOWN
16	34+53.95	74.00LT	APRON	20	MEDIUM TIE-DOWN
17	35+03.95	74.00LT	APRON	20	MEDIUM TIE-DOWN
18	35+53.95	74.00LT	APRON	20	MEDIUM TIE-DOWN
19	36+03.95	74.00LT	APRON	20	MEDIUM TIE-DOWN
20	36+53.95	74.00LT	APRON	20	MEDIUM TIE-DOWN
21	37+03.95	74.00LT	APRON	20	MEDIUM TIE-DOWN
22	38+63.45	74.00LT	APRON	21	MEDIUM TIE-DOWN
23	39+13.45	74.00LT	APRON	21	MEDIUM TIE-DOWN

P650.010.0000 AIRCRAFT TIE-DOWN					
POINT #	BEGIN STATION	OFFSET (FT)	ALIGNMENT	SHEET NO	REMARKS
24	39+63.45	74.00LT	APRON	21	MEDIUM TIE-DOWN
25	40+13.45	74.00LT	APRON	21	MEDIUM TIE-DOWN
26	40+63.45	74.00LT	APRON	21	MEDIUM TIE-DOWN
27	41+13.45	74.00LT	APRON	21	MEDIUM TIE-DOWN
28	41+63.45	74.00LT	APRON	21	MEDIUM TIE-DOWN
29	42+13.45	74.00LT	APRON	21	MEDIUM TIE-DOWN
30	33+29.34	25.00RT	APRON	20	SMALL TIE-DOWN
31	33+74.34	25.00RT	APRON	20	SMALL TIE-DOWN
32	34+19.34	25.00RT	APRON	20	SMALL TIE-DOWN
33	34+64.34	25.00RT	APRON	20	SMALL TIE-DOWN
34	35+09.34	25.00RT	APRON	20	SMALL TIE-DOWN
35	35+54.34	25.00RT	APRON	20	SMALL TIE-DOWN
36	35+99.34	25.00RT	APRON	20	SMALL TIE-DOWN
37	36+44.34	25.00RT	APRON	20	SMALL TIE-DOWN
38	36+89.34	25.00RT	APRON	20	SMALL TIE-DOWN
39	38+69.15	25.00RT	APRON	21	SMALL TIE-DOWN
40	39+14.15	25.00RT	APRON	21	SMALL TIE-DOWN
41	39+59.15	25.00RT	APRON	21	SMALL TIE-DOWN
42	40+04.15	25.00RT	APRON	21	SMALL TIE-DOWN
43	40+49.15	25.00RT	APRON	21	SMALL TIE-DOWN
44	40+94.15	25.00RT	APRON	21	SMALL TIE-DOWN
45	41+39.15	25.00RT	APRON	21	SMALL TIE-DOWN

P660.030.0000 REFLECTIVE MARKER, TYPE II							
STATION	OFFSET (FT)	ALIGNMENT	WIDTH (IN)	HEIGHT (IN)	PHASE	SHEET NO.	REMARKS
31+66.60	47.70RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
33+66.59	70.65RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
32+63.99	70.72RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
32+64.00	48.29RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
32+88.67	20.57RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
33+46.76	66.95LT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
33+86.00	118.43LT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
37+39.80	19.40RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
37+39.80	68.40LT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
37+39.80	119.60LT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
37+44.05	70.82RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
37+44.11	48.20RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
38+23.24	71.00RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
38+23.30	48.20RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
38+27.61	19.40RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
38+27.61	68.40LT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
41+99.30	19.40RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
42+03.49	70.56RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	
42+03.61	48.20RT	APRON	REFERENCE MARKING	DETAIL 2/34	3	33	

P661.010.0000 STANDARD SIGN SUMMARY											
SIGN #	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SF)	SIGN FACE DIRECTION	POST SIZE TYPE	ALIGNMENT	SHEET NO.	REMARKS
1	1+35.39	24.00RT	R2-1	24	30	5.00	SW	2.5" PST	RD	32	SPEED LIMIT - 35 MPH
2	2+33.30	24.00RT	W1-4L_Y	36	36	9.00	SW	2.5" PST	RD	32	REVERSE CURVE LEFT
3	13+99.78	23.93LT	W1-4L_Y	36	36	9.00	E	2.5" PST	RD	32	REVERSE CURVE LEFT
4	14+30.61	24.00RT	W1-2L_Y	36	36	9.00	W	2.5" PST	RD	32	LEFT CURVE
5	21+21.01	23.80LT	W1-2R_Y	30	30	9.00	N	2.5" PST	RD	32	RIGHT CURVE
6	22+21.01	23.86LT	R2-1	24	30	5.00	N	2.5" PST	RD	32	SPEED LIMIT - 35 MPH
					TOTAL:	46.00					


APPROACH SUMMARY										
SHEET	STATION	OFFSET	SKEW ANGLE	TYPE				WIDTH (FT)	LENGTH (FT)	REMARKS
				PUB.	RES.	COM. FARM	ACCESS TRAIL			
17	17+85.43	LT	67		X			20	37.24	
17	17+85.45	RT	113		X			20	93.28	


Date Revised: 4/09/2025, 12:55 PM
Layout Name: PIP 2
File Path and Name: W:\Projects\AKA Lake Hood\ANC ATCT Replacement Parking_00831\Civil\Plan\00831-ANC-Project-Layout-Plan.dwg
Designed By: AAT
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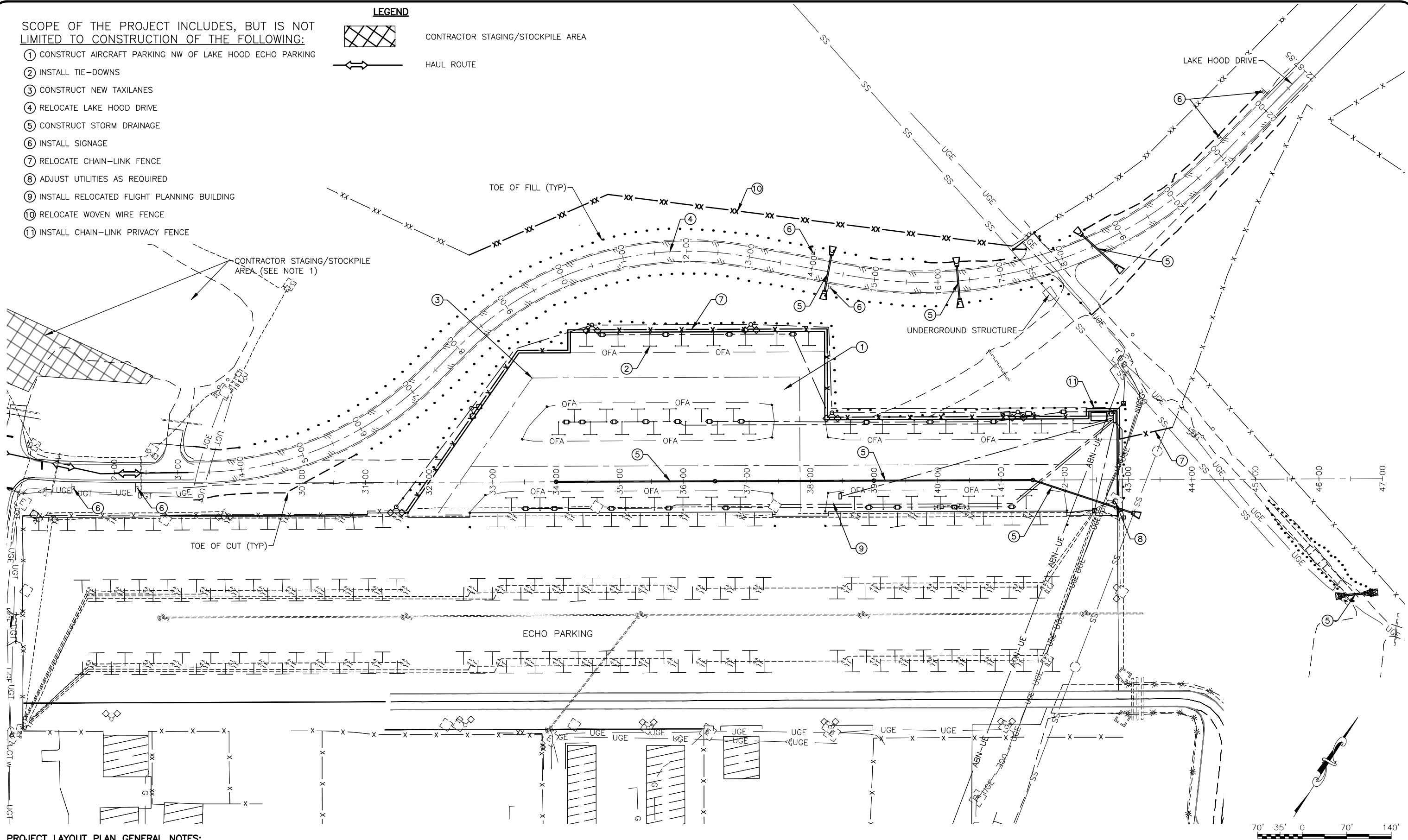
SCOPE OF THE PROJECT INCLUDES, BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOLLOWING:

- 1 CONSTRUCT AIRCRAFT PARKING NW OF LAKE HOOD ECHO PARKING
- 2 INSTALL TIE-DOWNS
- 3 CONSTRUCT NEW TAXILANES
- 4 RELOCATE LAKE HOOD DRIVE
- 5 CONSTRUCT STORM DRAINAGE
- 6 INSTALL SIGNAGE
- 7 RELOCATE CHAIN-LINK FENCE
- 8 ADJUST UTILITIES AS REQUIRED
- 9 INSTALL RELOCATED FLIGHT PLANNING BUILDING
- 10 RELOCATE WOVEN WIRE FENCE
- 11 INSTALL CHAIN-LINK PRIVACY FENCE

LEGEND

 CONTRACTOR STAGING/STOCKPILE AREA

 HAUL ROUTE



PROJECT LAYOUT PLAN GENERAL NOTES:

1. LOCATE CONSTRUCTION STAGING WITHIN THE ACTIVE WORK AREA OR AS SHOWN.

BY	DATE	REVISION

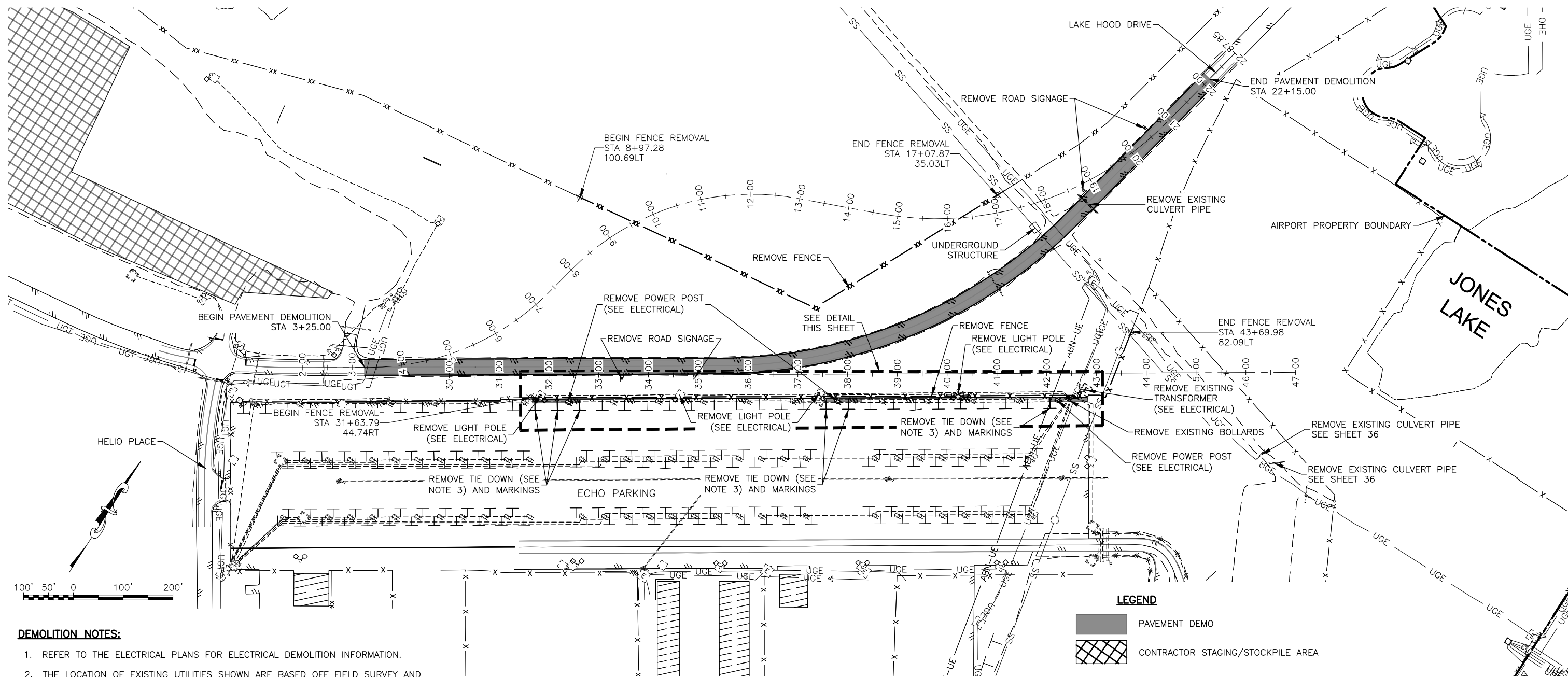
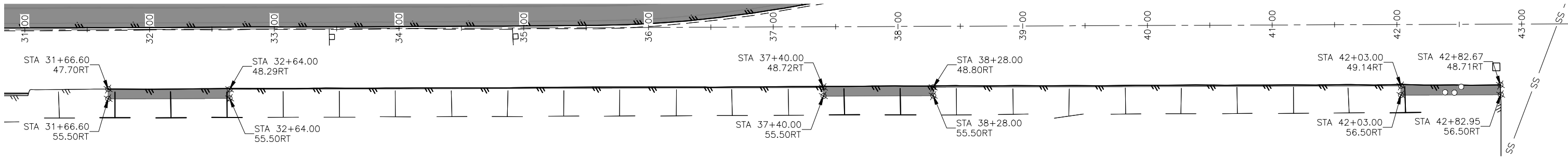
STATE OF ALASKA
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AND PUBLIC FACILITIES
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4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
PROJECT LAYOUT PLAN DETAIL

DATE: 04/09/2025
SHEET: 8 OF 38

Designed By: AAT
Drawn By: RUB
Checked By: TRI

Date Revised: 4/09/2025, 12:56 PM
Layout Name: DEMO 1
File Path and Name: W:\Projects\AIA Lake Hood\ANC ATCT Replacement Parking_00831\GVD\Planset\00831-ANC-DEMO-PLAN.dwg



DEMOLITION NOTES:

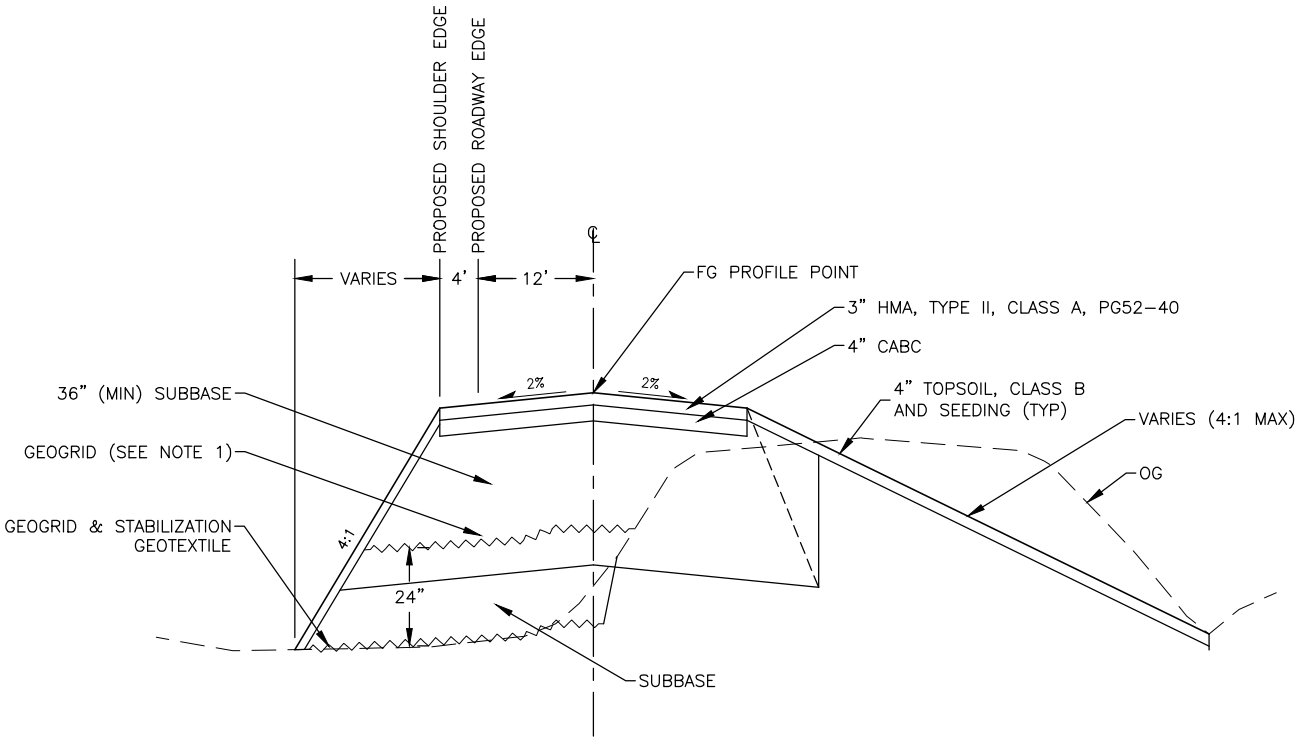
1. REFER TO THE ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION INFORMATION.
2. THE LOCATION OF EXISTING UTILITIES SHOWN ARE BASED OFF FIELD SURVEY AND AS-BUILT RECORDS. THEY ARE APPROXIMATE LOCATIONS ONLY AND NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR TO FIELD LOCATE UTILITIES PRIOR TO EXCAVATION.
3. CUT TIE DOWN AS FAR BELOW GRADE AS PRACTICABLE, FILL REMAINING DEPRESSION WITH EPOXY.

BY	DATE	REVISION

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

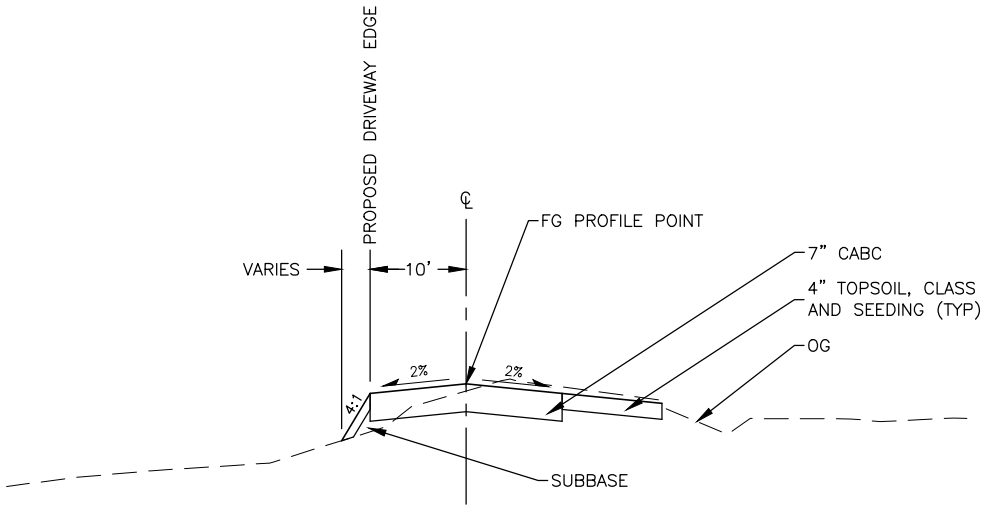
LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRBMS00831
697DCK-22-T-00001
DEMOLITION PLAN

DATE:
04/09/2025
SHEET:
9 OF 38



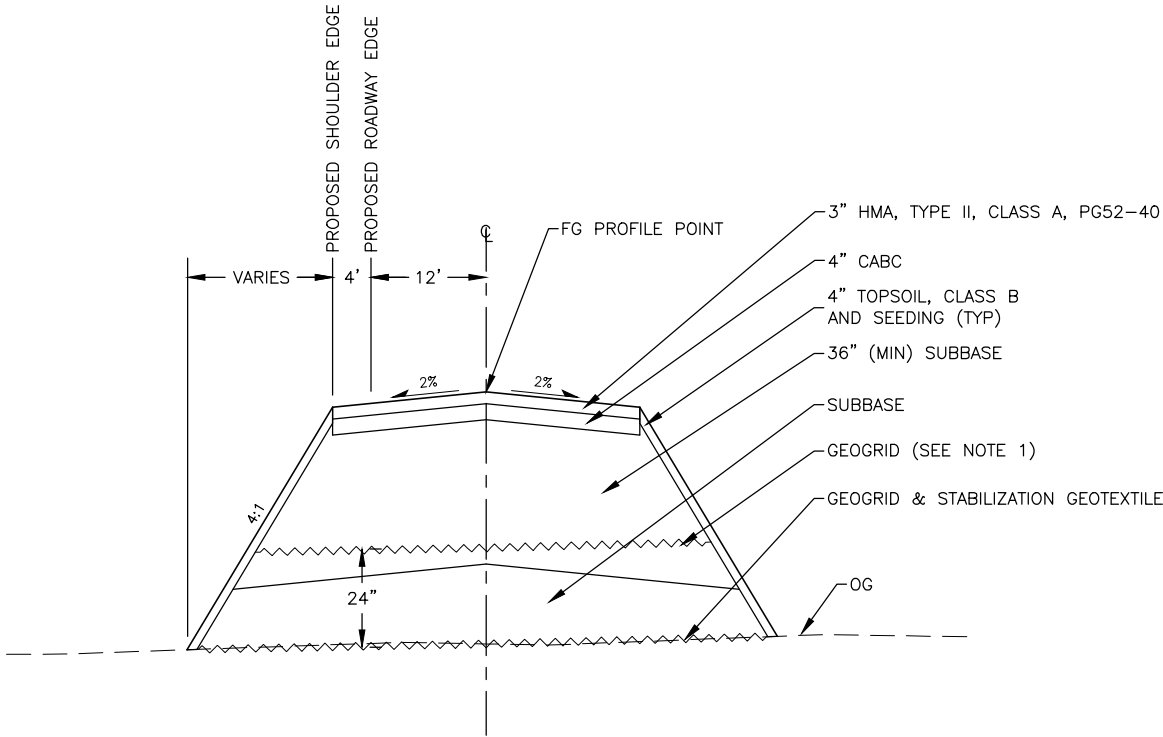
1
10

ROAD TYPICAL SECTION
RD ϕ STA 03+25.00 TO 5+75.00
RD ϕ STA 17+50.00 TO 22+15.00
NOT TO SCALE



3
10

DRIVEWAY TYPICAL SECTION
DW ϕ STA 200+47.34 TO 200+82.47
DW ϕ STA 201+17.71 TO 202+04.03
NOT TO SCALE

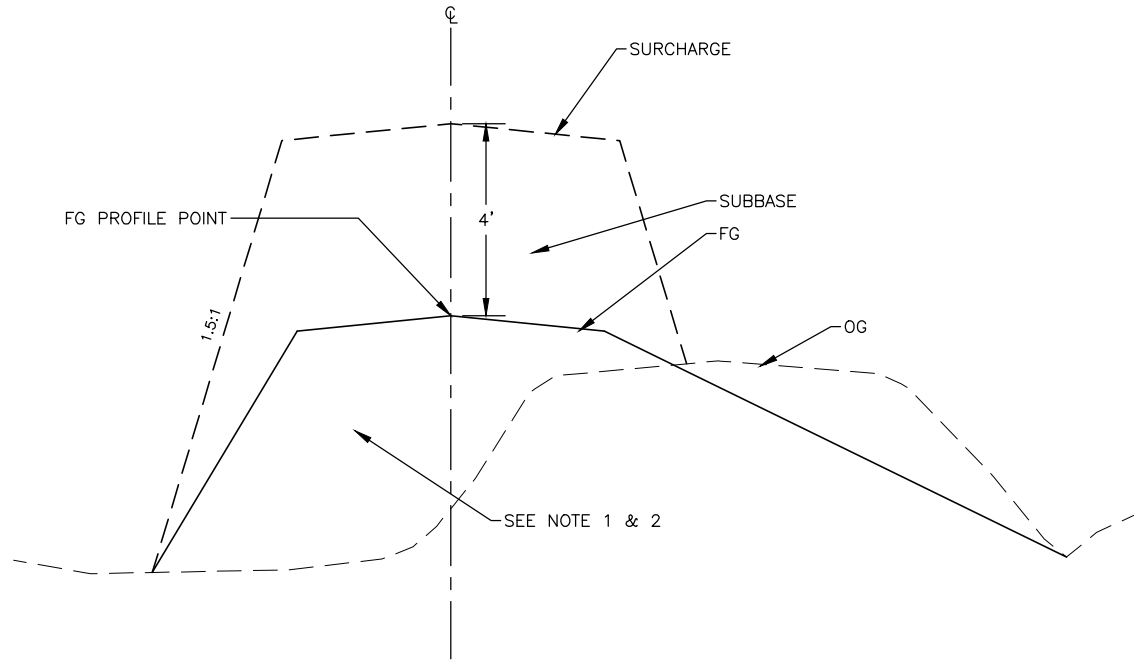


2
10

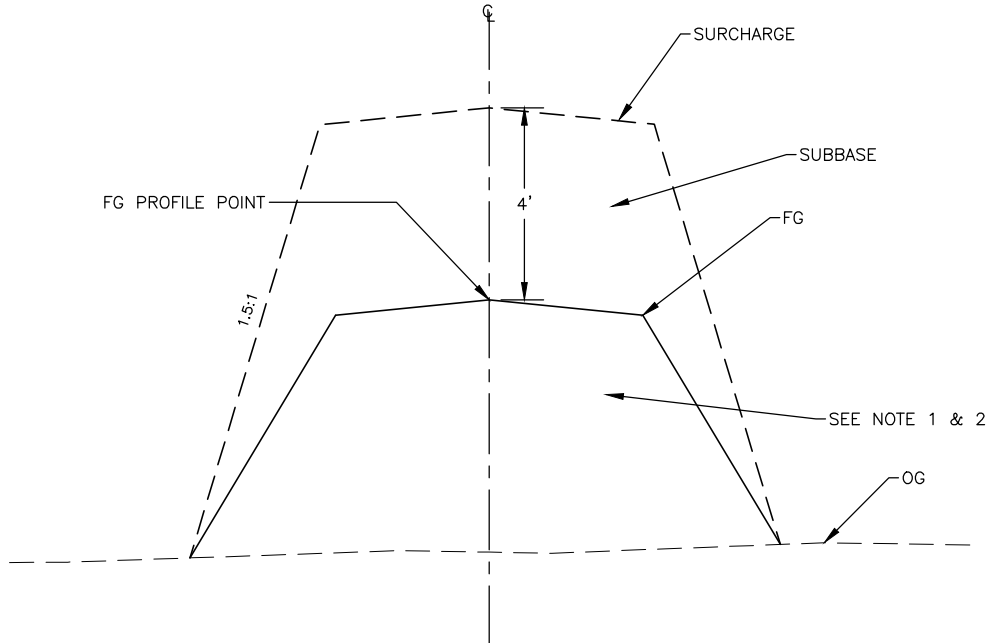
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RD ϕ STA 05+75.00 TO 17+50.00
NOT TO SCALE

NOTES:

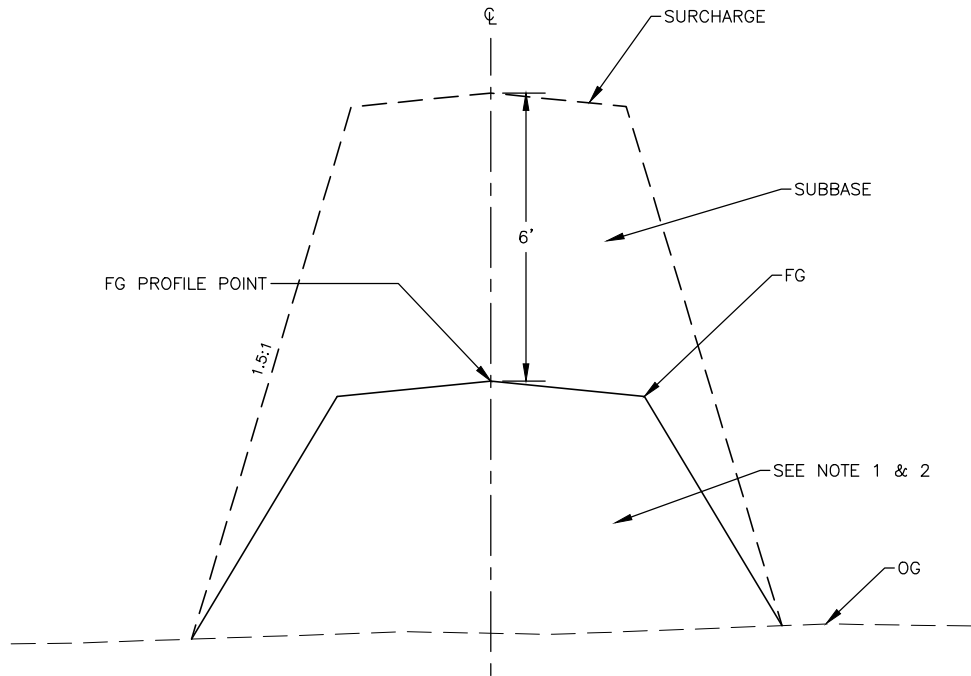
1. INSTALL ADDITIONAL GEOGRID WHERE SURCHARGE DEPTH EQUALS 6FT.
REFERENCE SHEET 11.



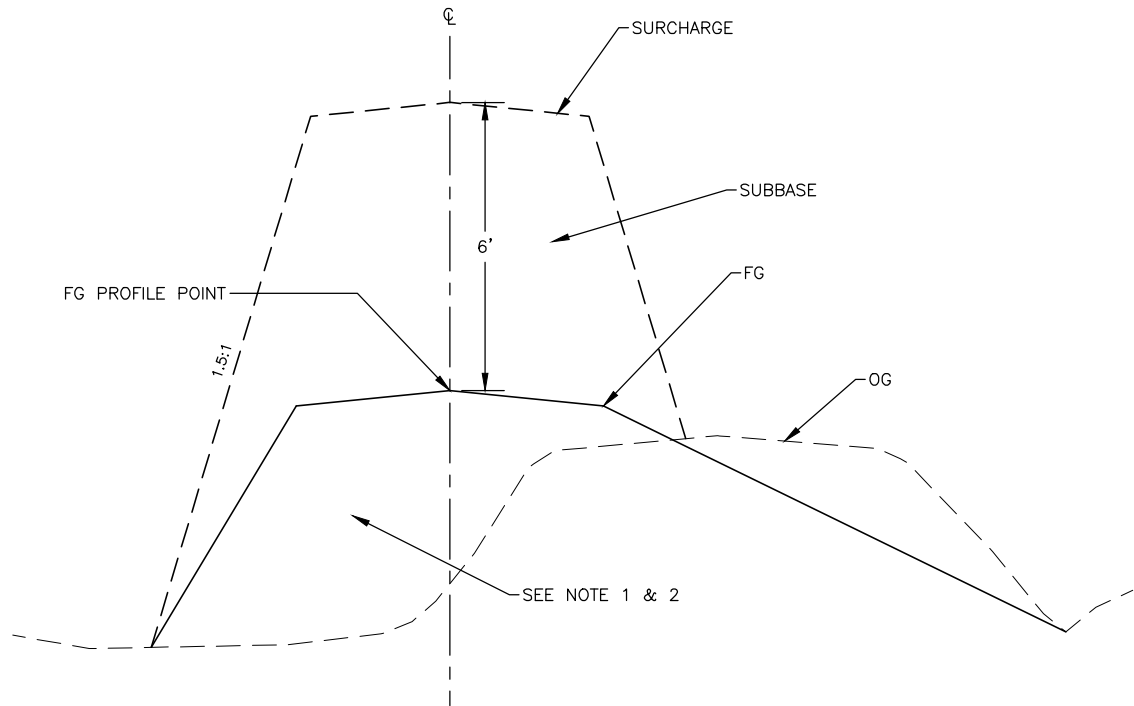
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11 4FT SURCHARGE TYPICAL SECTION – ROAD
RD C STA 04+00.00 TO 5+75.00
NOT TO SCALE



2
11 4FT SURCHARGE TYPICAL SECTION – ROAD
RD C STA 05+75.00 TO 14+00.00
NOT TO SCALE



3
11 6FT SURCHARGE TYPICAL SECTION – ROAD
RD C STA 14+00.00 TO 18+50.00
NOT TO SCALE



4
11 6FT SURCHARGE TYPICAL SECTION – ROAD
RD C STA 18+50.00 TO 20+00.00
NOT TO SCALE

NOTES:

1. INSTALL GEOGRID AND GEOTEXTILE FABRIC PER (TYP) 1/10 AND (TYP) 2/10.
2. SEE TYPICAL SECTIONS FOR CONSTRUCTION DETAIL. GEOGRID MUST BE INSTALLED PRIOR TO SURCHARGE.
3. FULL THICKNESS OF THE SURCHARGE EMBANKMENT SHALL REMAIN IN PLACE FOR A MINIMUM OF SIX MONTHS PRIOR TO REMOVAL AND CONSTRUCTION OF FINAL STRUCTURAL SECTION.
4. EXCAVATION OF SURCHARGE LAYER WILL BE PAID UNDER P152.010.0000. REUSE EXCAVATED SURCHARGE MATERIAL AS SUBBASE. CONSTRUCTION SHALL BE PHASED TO MAXIMIZE THE REUSE OF SURCHARGED MATERIAL AS SUBBASE WITHIN THE PROJECT LIMITS .A SEPARATE PAYMENT WILL NOT BE MADE FOR PLACEMENT OF SALVAGED MATERIAL.
5. MAINTAIN EXISTING DRAINAGE PATTERNS DURING SURCHARGE PERIOD. WORK REQUIRED TO MAINTAIN EXISTING DRAINAGE PRIOR TO INSTALLATION OF PERMANENT STORM DRAIN INFRASTRUCTURE IS SUBSIDIARY TO THE CONTRACT.
6. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN ON THE TRAFFIC CONTROL SHEETS OR 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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
ROAD SURCHARGE TYPICALS

DATE:
04/09/2025
SHEET:
11 OF 38

Date Revised: 4/09/2025, 12:56 PM

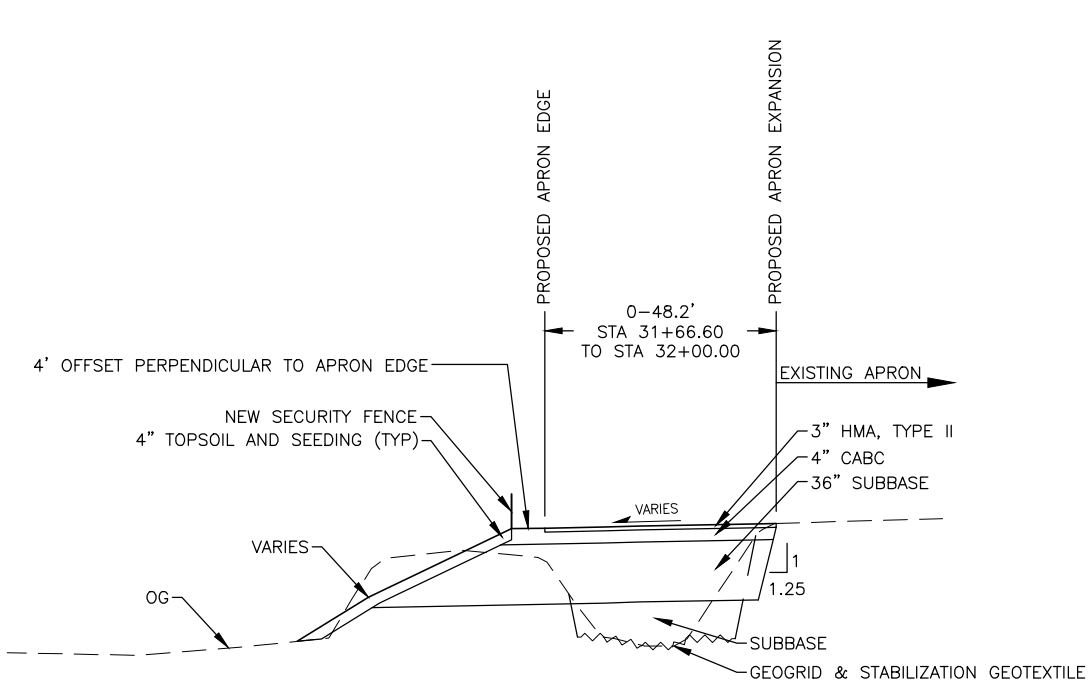
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File Path and Name: W:\Projects\AIA Lake Hood\ANC ATCT Replacement Parking 00831\Civ3D\Planset\00831-ANC-TYPICALS.dwg

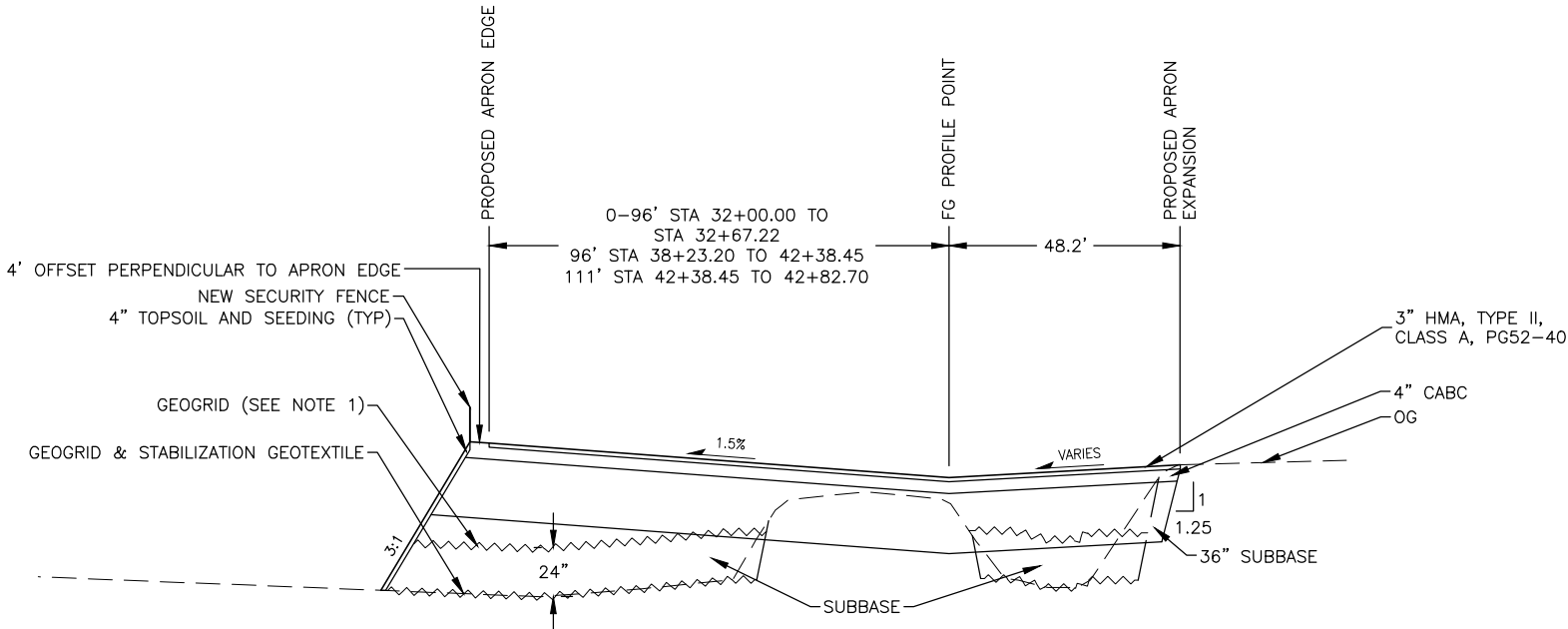
Designed By: AAT

Drawn By: RUB

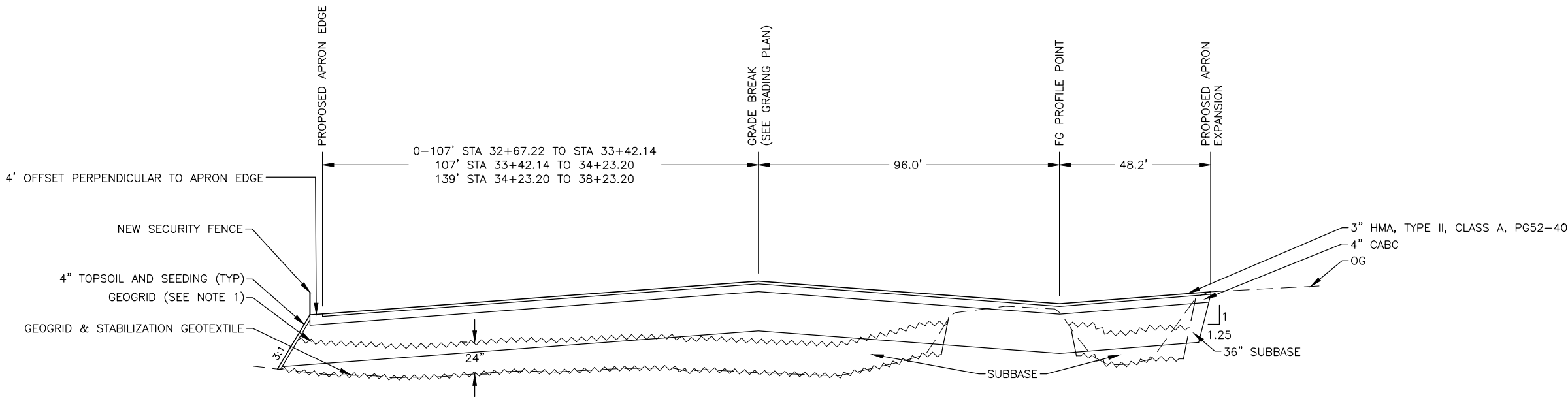
Checked By: TRI



1
12
APRON TYPICAL SECTION
STA 31+66.60 TO 32+00.00
NOT TO SCALE



2
12
APRON TYPICAL SECTION
STA 32+00.00 TO 32+67.22
STA 38+23.20 TO 42+82.70
NOT TO SCALE



3
12
APRON TYPICAL SECTION
STA 32+67.22 TO 38+23.20
NOT TO SCALE

NOTES:

1. ADDITIONAL GEOGRID LAYER INSTALLED WHERE SURCHARGE DEPTH EQUALS 6FT.

			STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590	LAKE HOOD SEAPLANE BASE ANCHORAGE, ALASKA ANC ATCT REPLACEMENT PARKING PROJECT No. CRMBS00831 697DCK-22-T-00001 APRON TYPICALS	DATE:	04/09/2025		
							SHEET:	12 OF 38
BY	DATE	REVISION						

4/09/2025, 12:56 PM

APRON SURCHARGE TYPICALS 2

W:\Projects\AIA Lake Hood\ANC ATCT Replacement Parking 00831\03D\Planset\00831-ANC-TYPICALS.dwg

Date Revised:

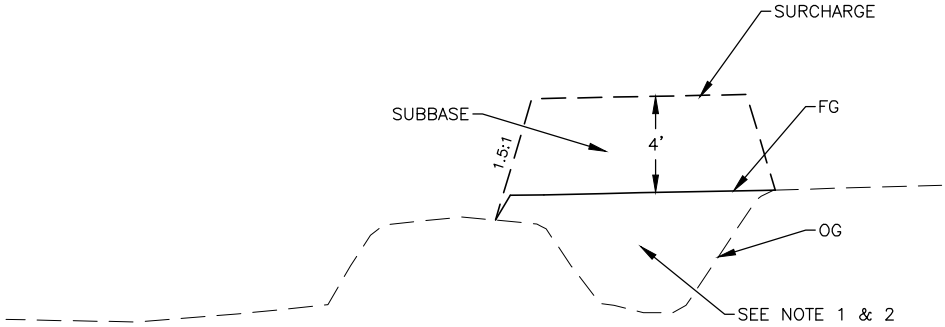
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File Path and Name:

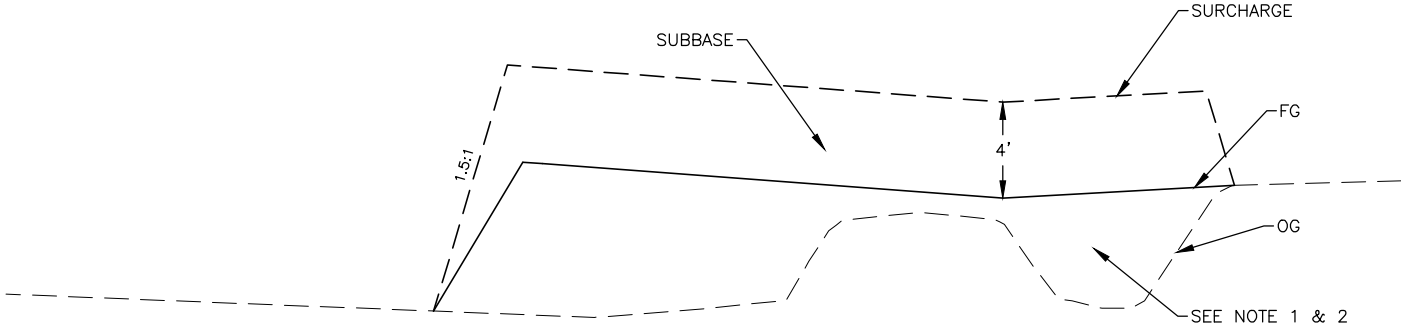
Designed By: AAT

Drawn By: RUB

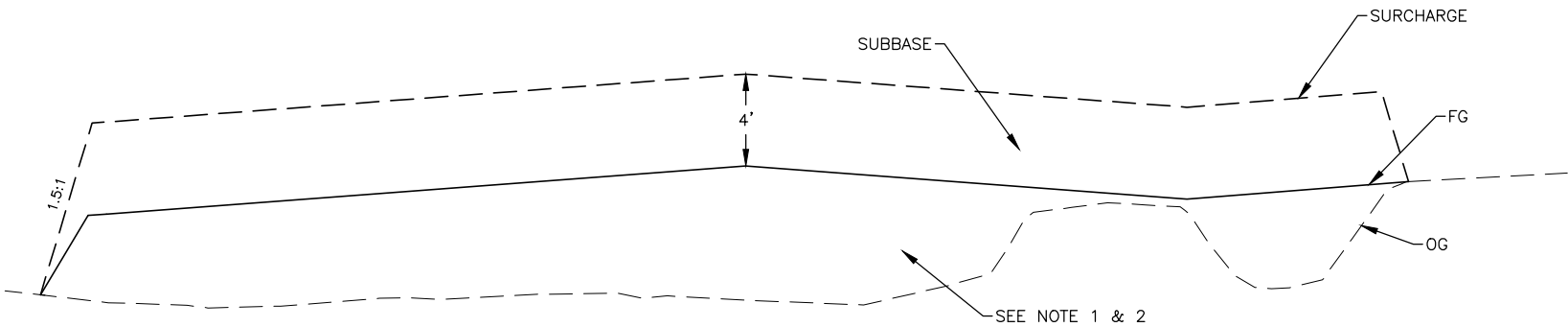
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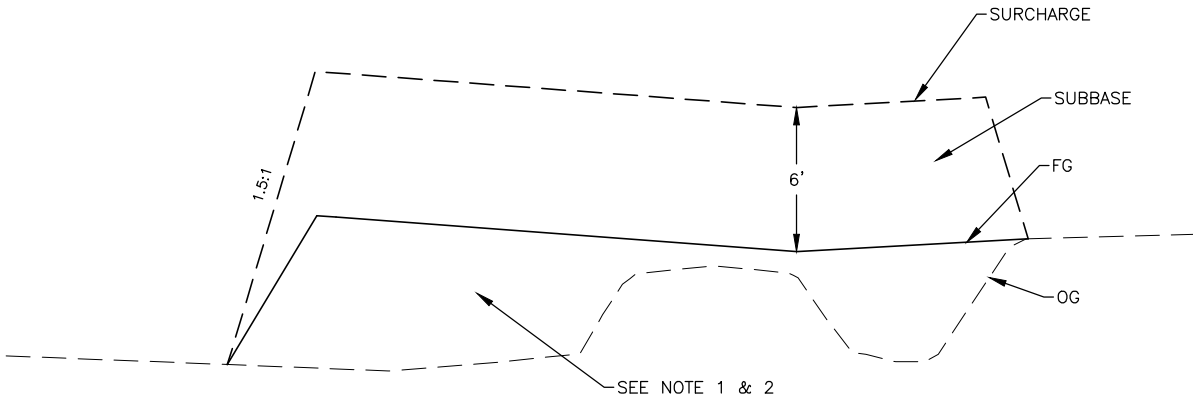
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13 4FT SURCHARGE TYPICAL SECTION – APRON
STA 31+66.60 TO 32+00.00
NOT TO SCALE



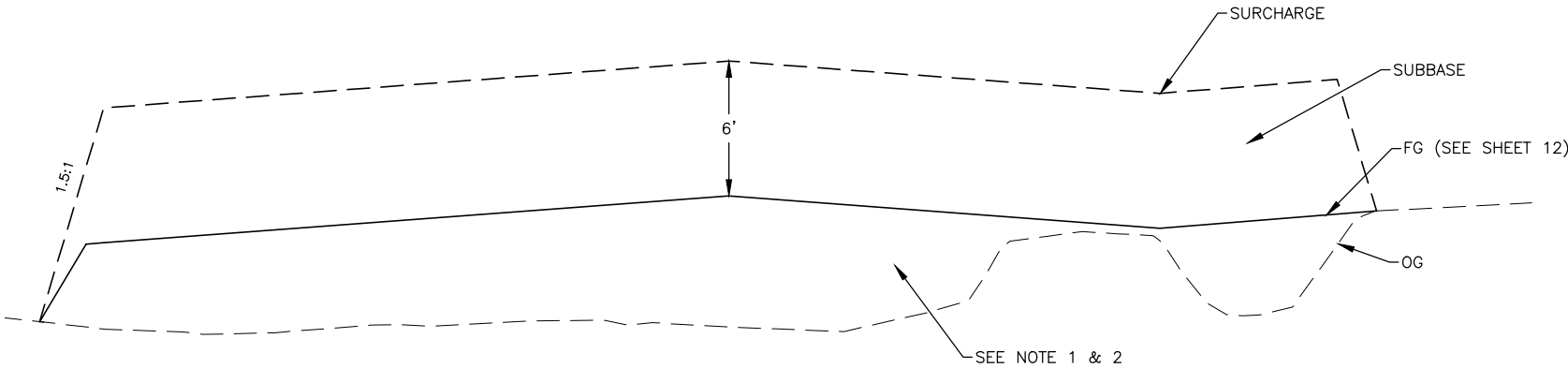
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13 4FT SURCHARGE TYPICAL SECTION – APRON
STA 32+00.00 TO 32+67.22
NOT TO SCALE



3
13 4FT SURCHARGE TYPICAL SECTION – APRON
STA 32+67.22 TO 38+00.00
NOT TO SCALE



4
13 6FT SURCHARGE TYPICAL SECTION – APRON
STA 38+23.20 TO 42+82.70
NOT TO SCALE



5
13 6FT SURCHARGE TYPICAL SECTION – APRON
STA 38+00.00 TO 38+23.20
NOT TO SCALE

NOTES:

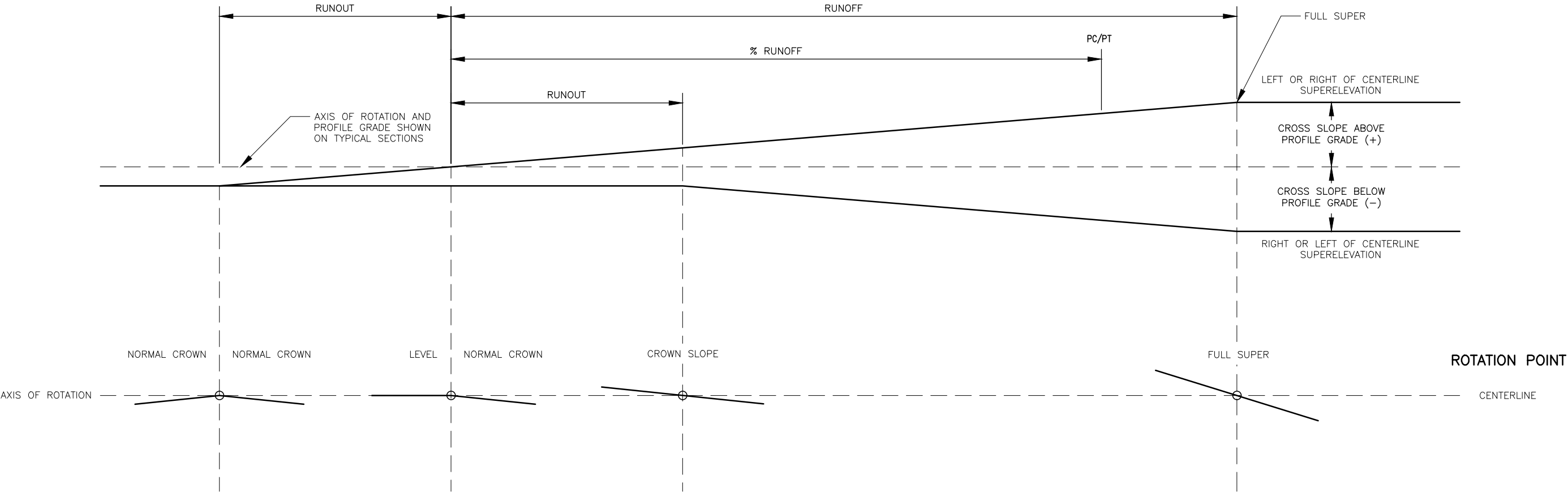
1. INSTALL GEOGRID AND GEOTEXTILE FABRIC PER (TYP) 1/12, (TYP) 2/12, AND (TYP) 3/12.
2. SEE TYPICAL SECTIONS FOR CONSTRUCTION DETAILS.
3. FULL THICKNESS OF THE SURCHARGE EMBANKMENT SHALL REMAIN IN PLACE FOR A MINIMUM OF SIX MONTHS PRIOR TO REMOVAL AND CONSTRUCTION OF FINAL STRUCTURAL SECTION.
4. EXCAVATION OF SURCHARGE LAYER WILL BE PAID UNDER P152.010.0000. REUSE EXCAVATED SURCHARGE MATERIAL AS SUBBASE. CONSTRUCTION SHALL BE PHASED TO MAXIMIZE THE REUSE OF SURCHARGED MATERIAL AS SUBBASE WITHIN THE PROJECT LIMITS .A SEPARATE PAYMENT WILL NOT BE MADE FOR PLACEMENT OF SALVAGED MATERIAL.
5. MAINTAIN EXISTING DRAINAGE PATTERNS DURING SURCHARGE PERIOD. WORK REQUIRED TO MAINTAIN EXISTING DRAINAGE PRIOR TO INSTALLATION OF PERMANENT STORM DRAIN INFRASTRUCTURE IS SUBSIDIARY TO THE CONTRACT.
6. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN ON THE TRAFFIC CONTROL SHEETS OR AS DIRECTED BY THE ENGINEER.

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
APRON SURCHARGE TYPICALS

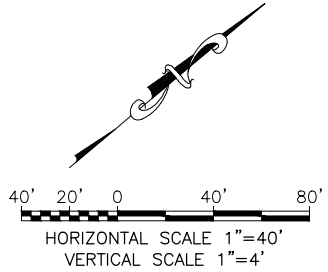
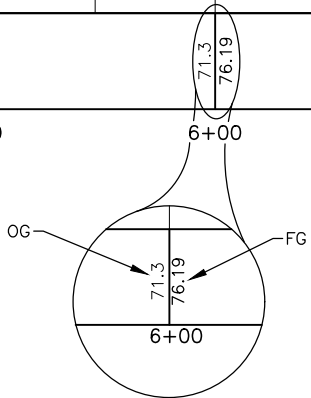
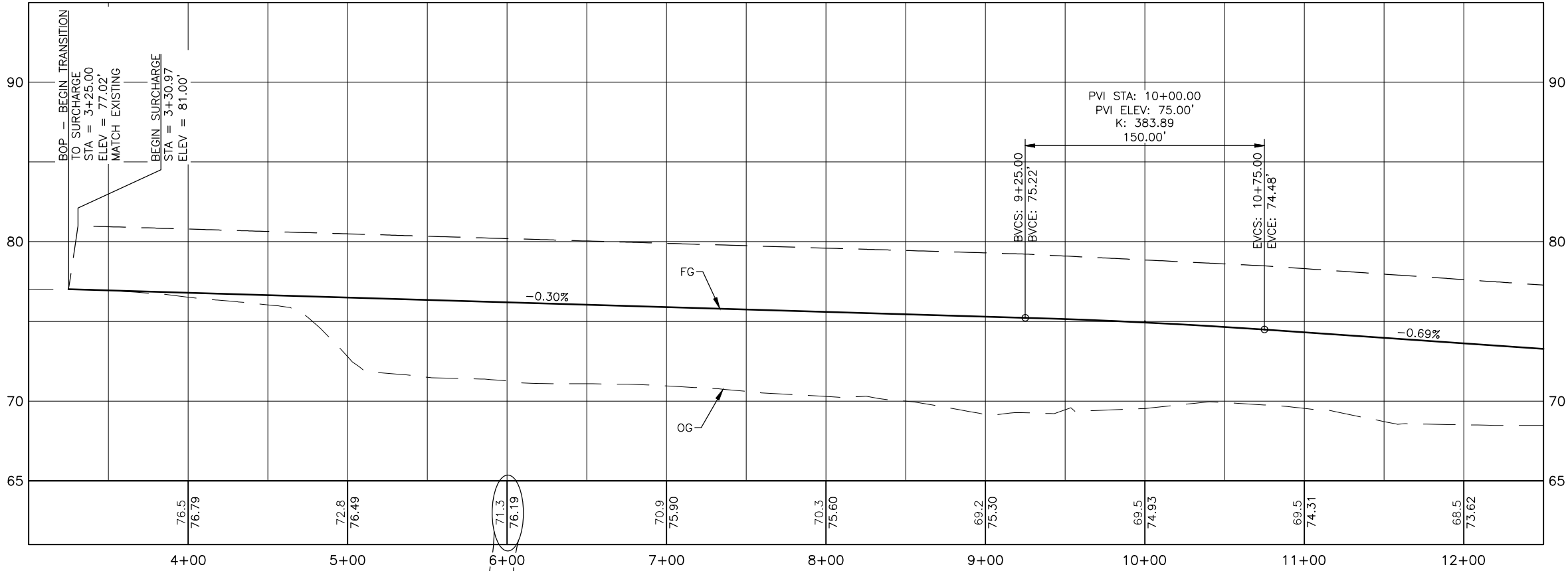
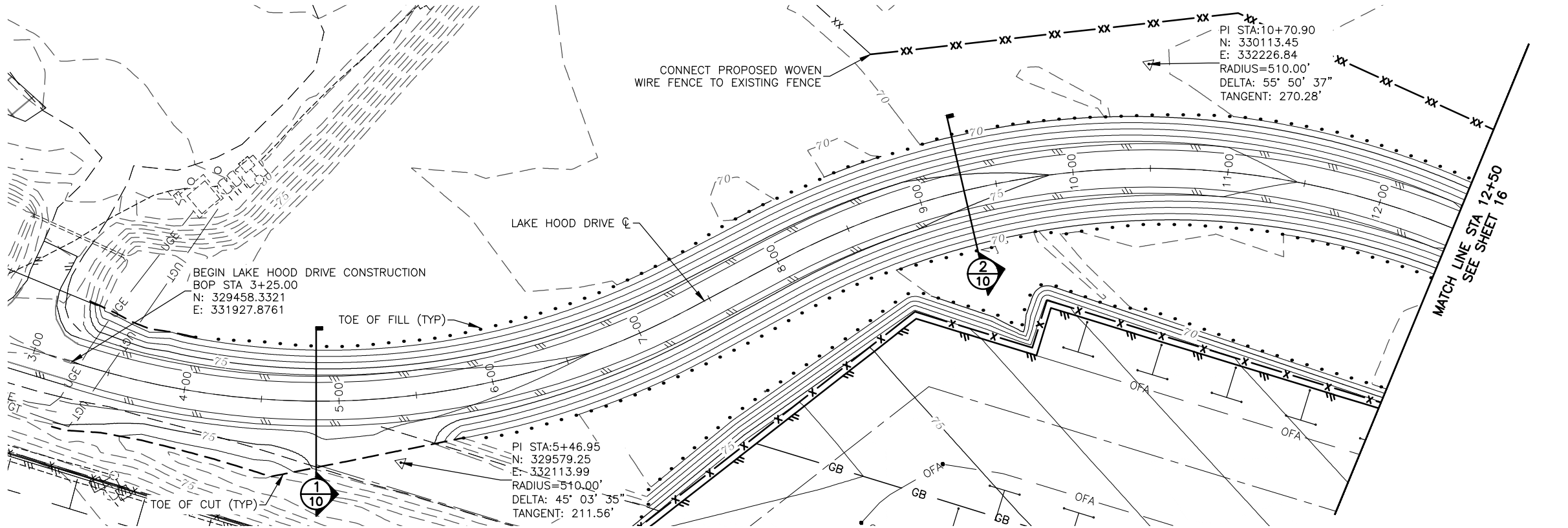
DATE:
04/09/2025
SHEET:
13 OF 38



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



NOTES:

1. SEE SHEETS 11 AND 13 FOR SURCHARGE NOTES.

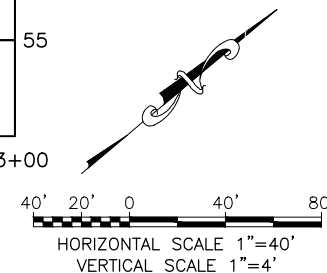
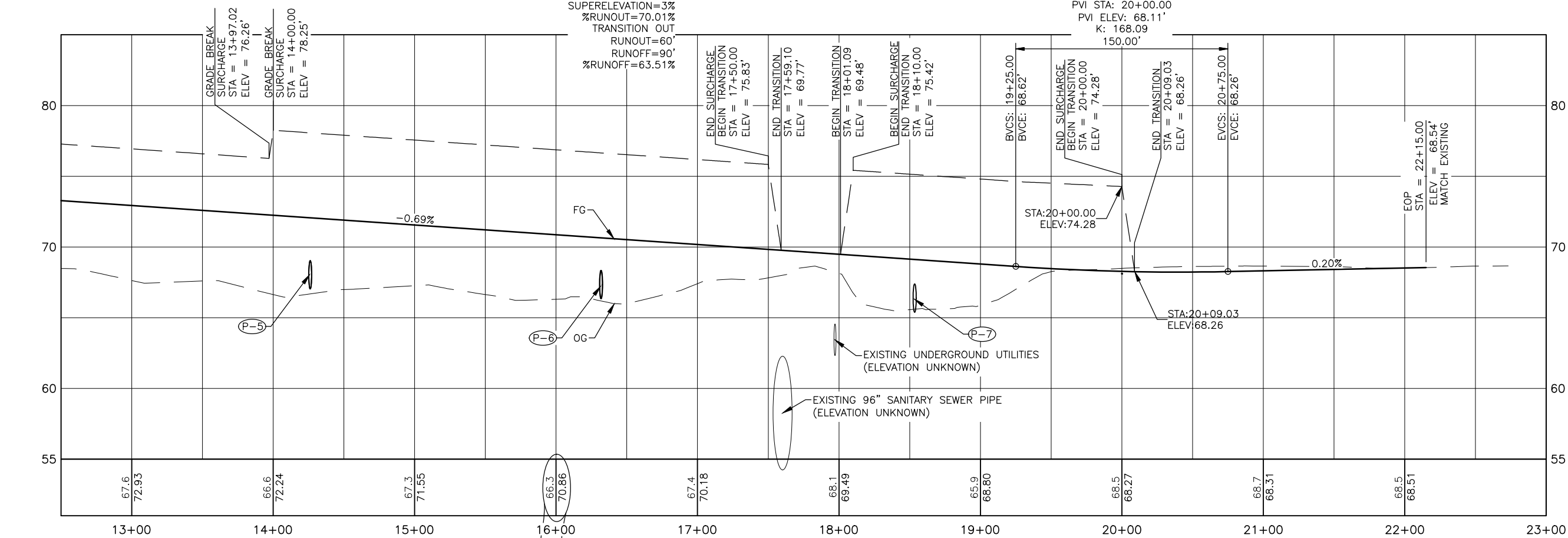
BY	DATE	REVISION

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRBMS00831
697DCK-22-T-00001
PLAN AND PROFILE ROAD

DATE: 04/09/2025

SHEET: 15 OF 38

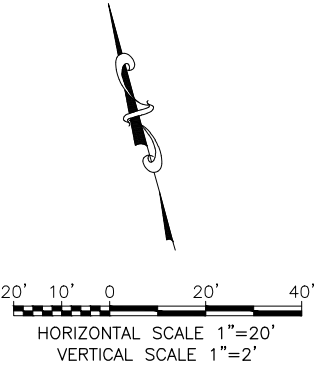
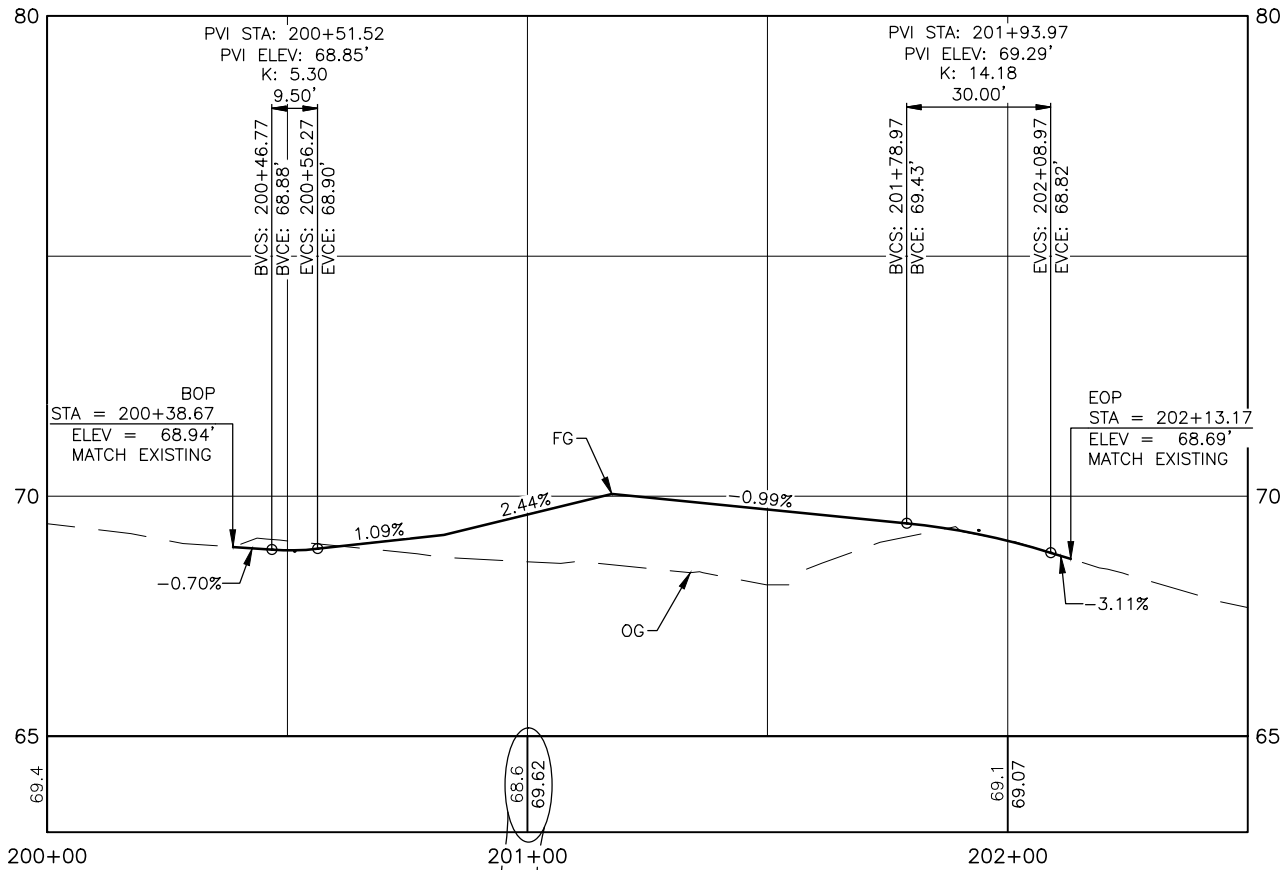
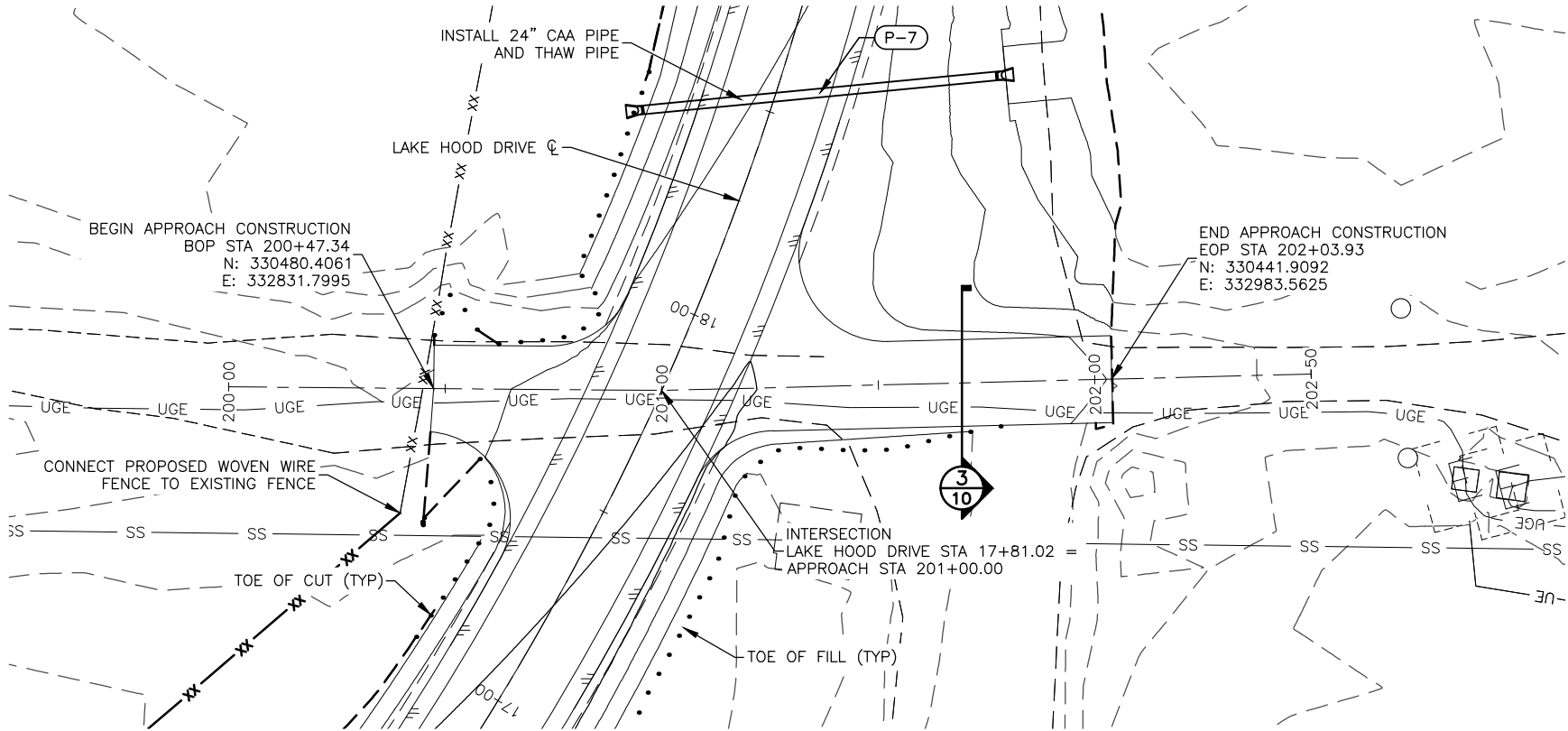


1. SEE SHEETS 11 AND 13 FOR SURCHARGE NOTES.

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

DATE:
04/09/2025

SHEET:
16 OF 38



NOTES:

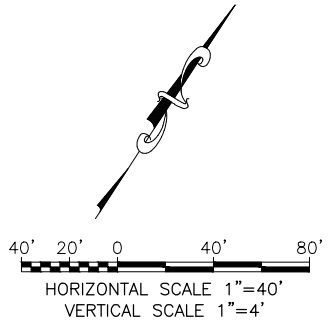
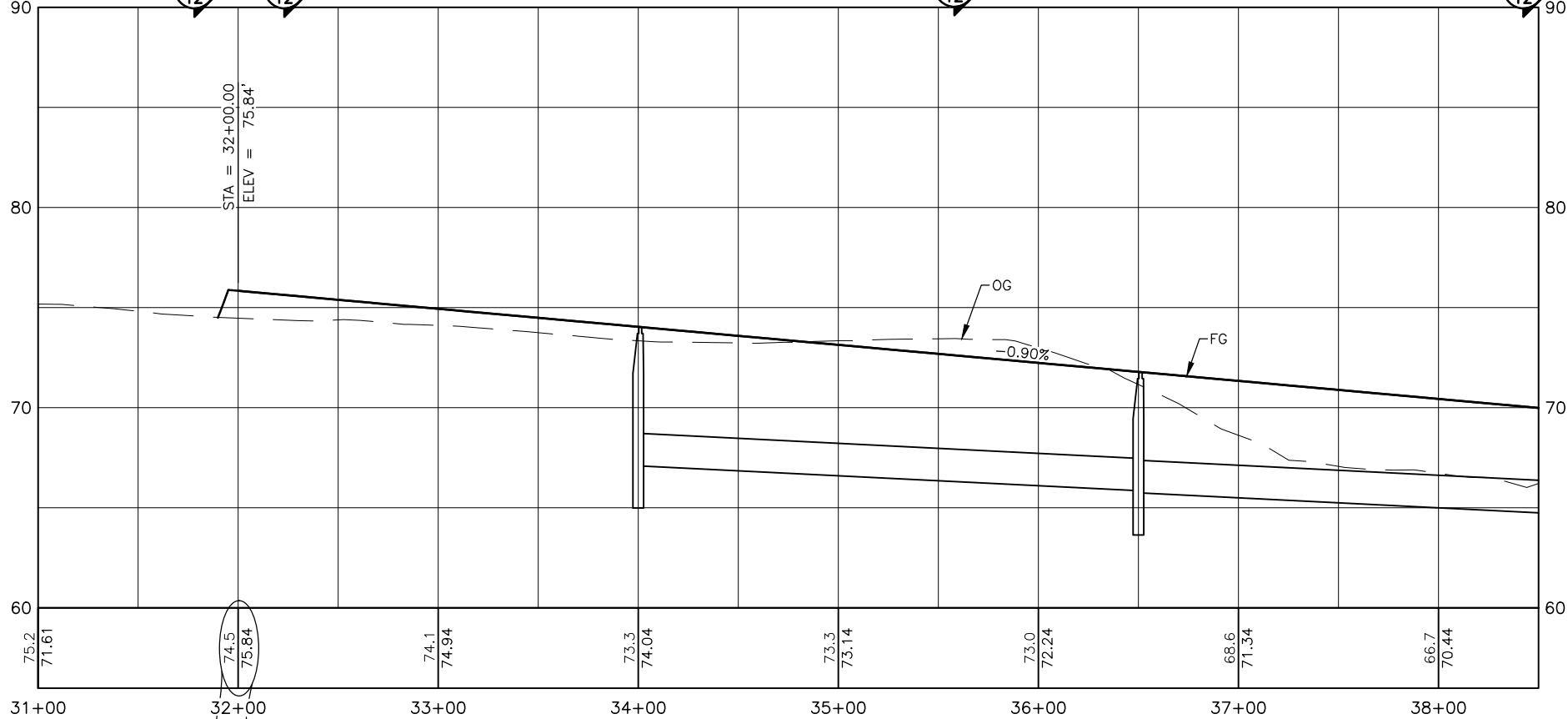
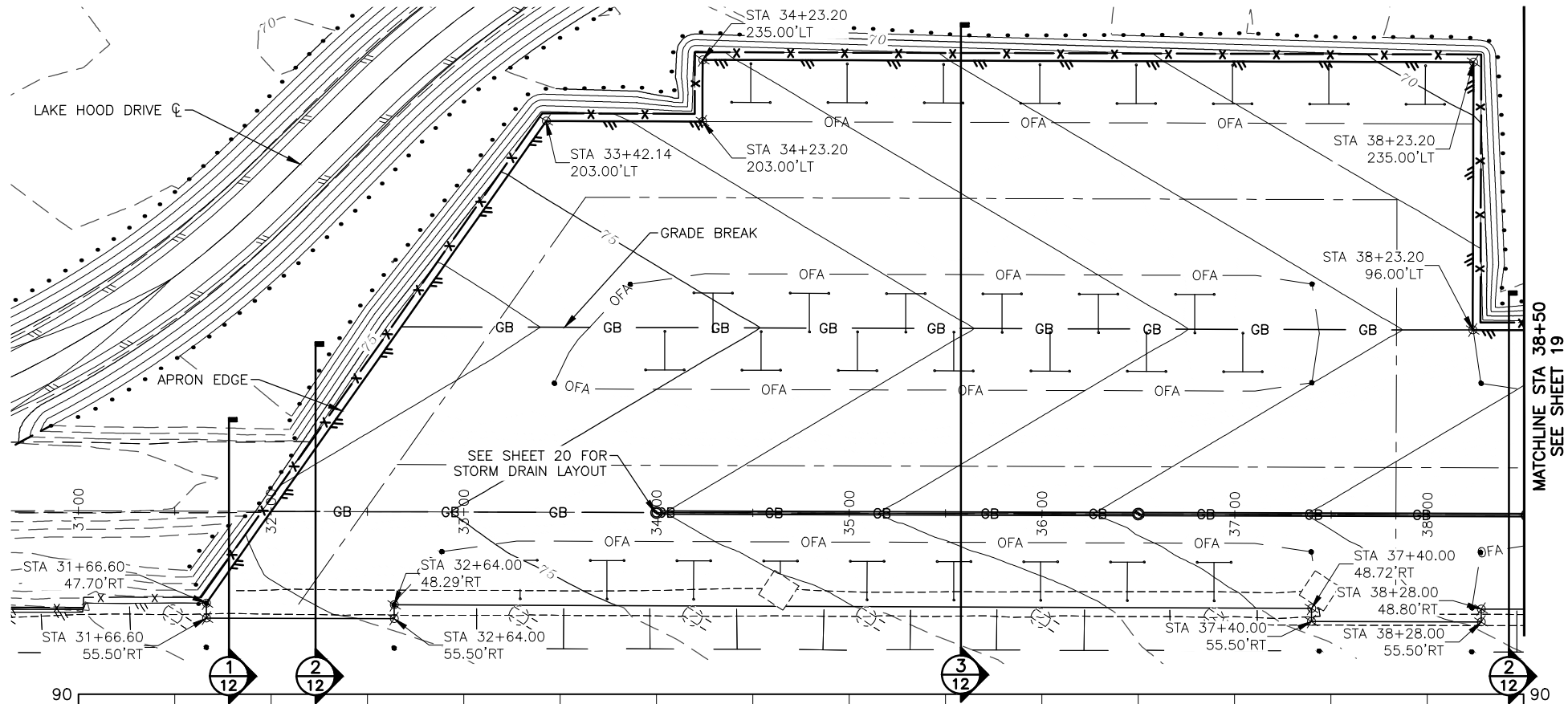
1. SEE SHEETS 11 AND 13 FOR SURCHARGE NOTES.

BY	DATE	REVISION

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
APPROACH PLAN AND PROFILE

DATE:
04/09/2025
SHEET:
17 OF 38

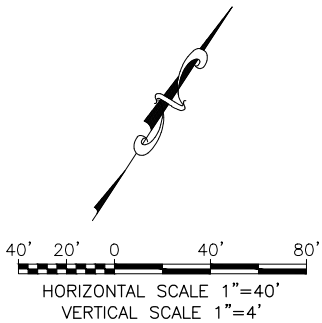
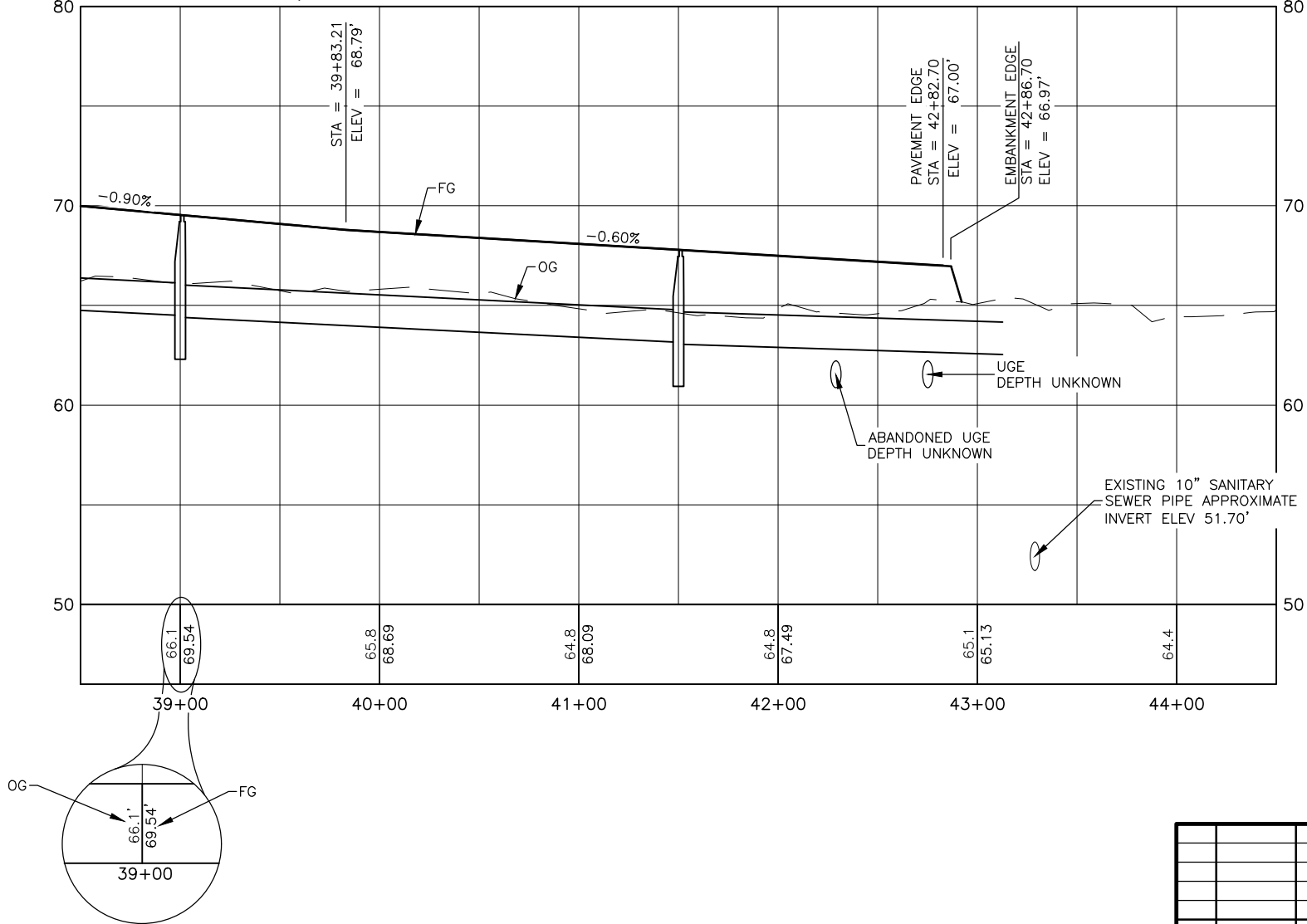
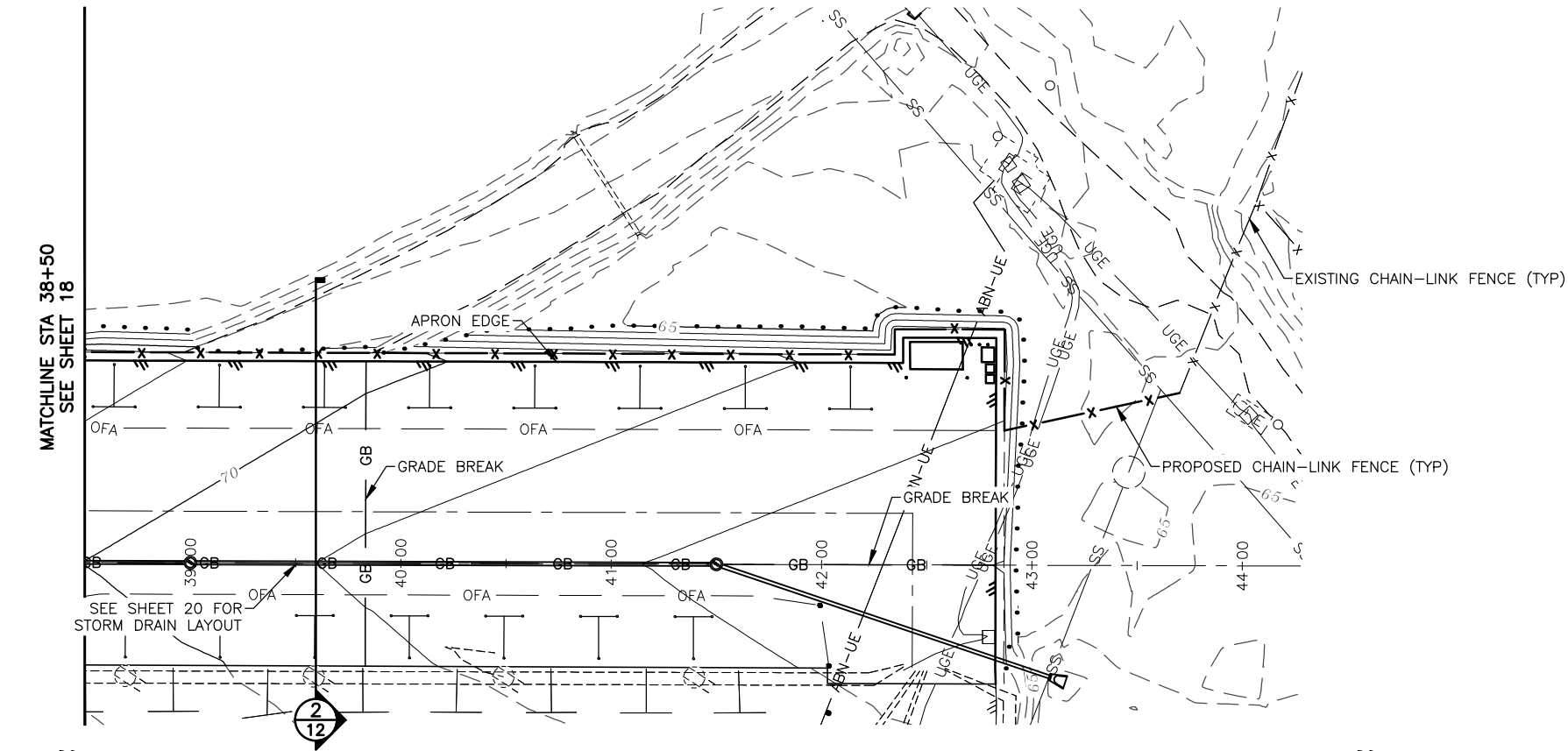


BY	DATE	REVISION

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
PLAN AND PROFILE APRON

DATE: 04/09/2025
SHEET: 18 OF 38

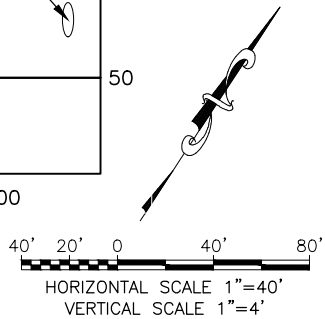
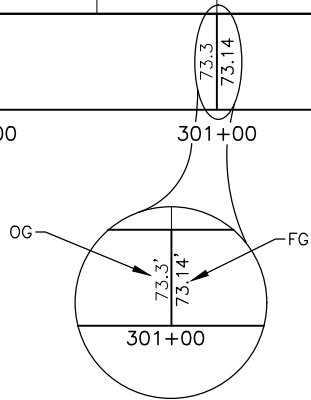
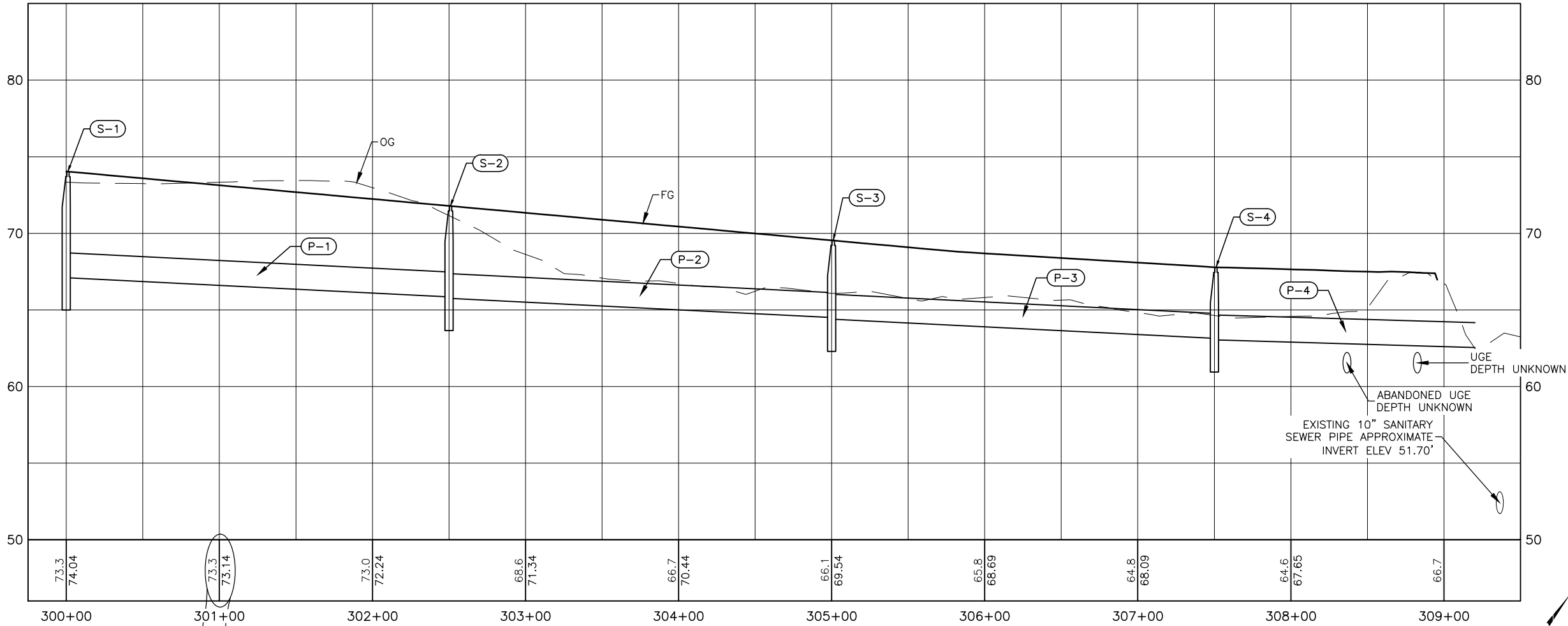
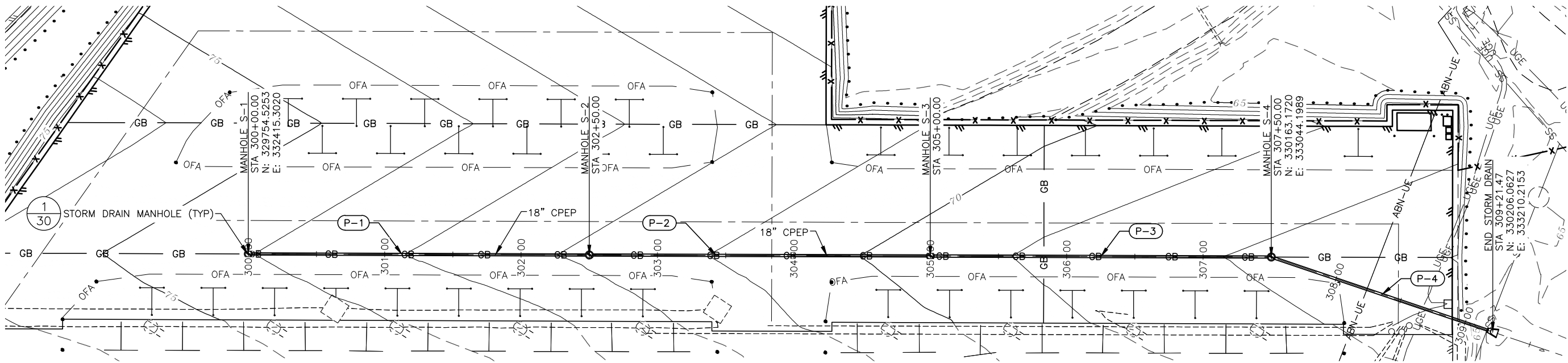


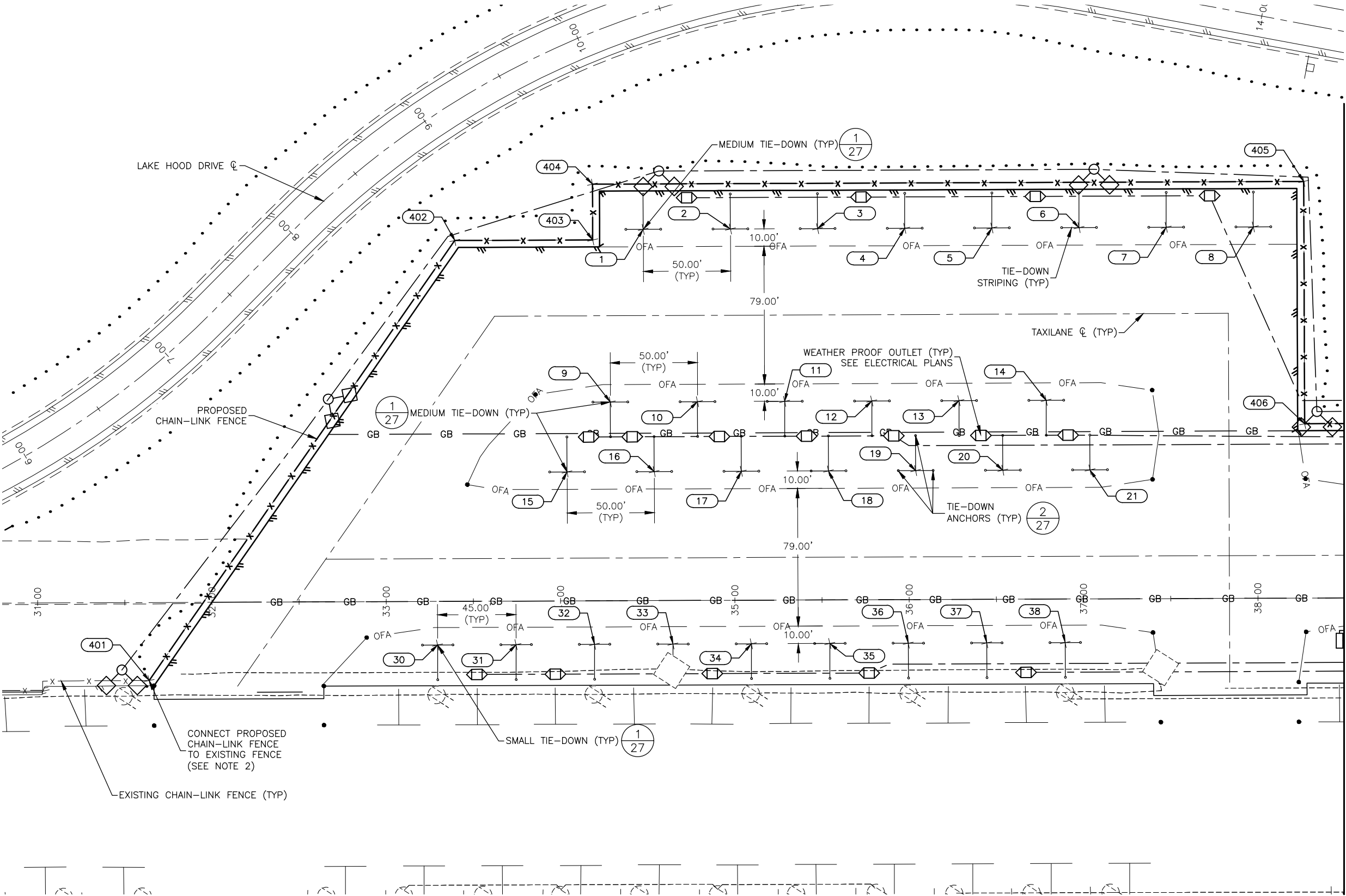
BY	DATE	REVISION

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
PLAN AND PROFILE APRON

DATE:
04/09/2025
SHEET:
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MATCH LINE STA 38+50
SEE SHEET 22

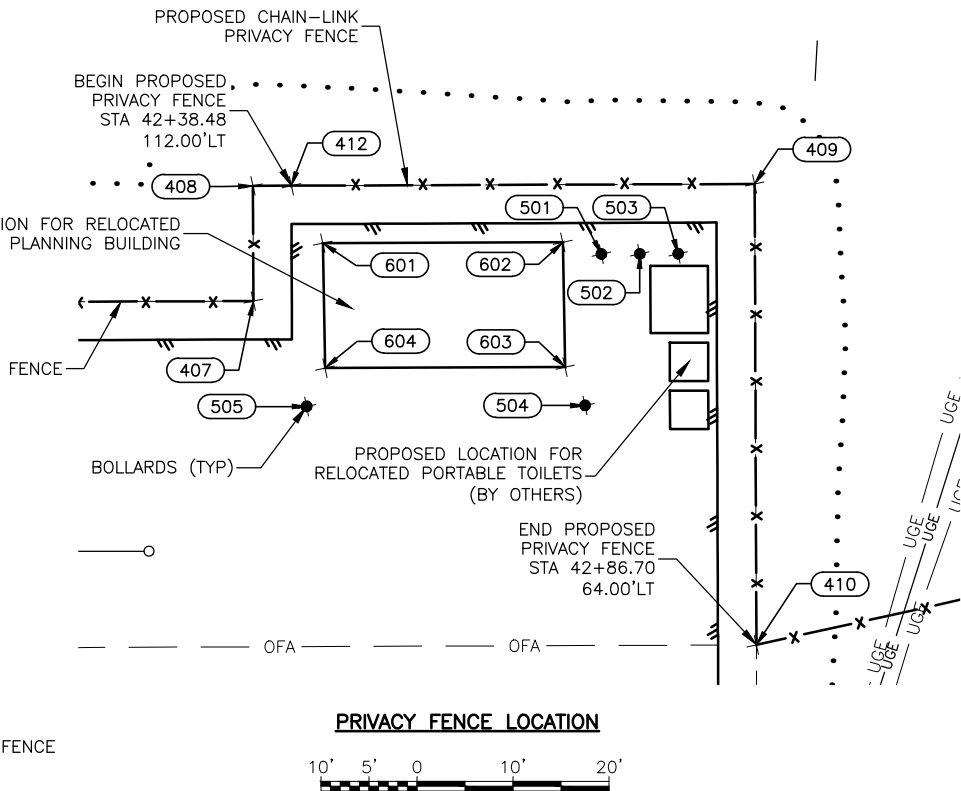
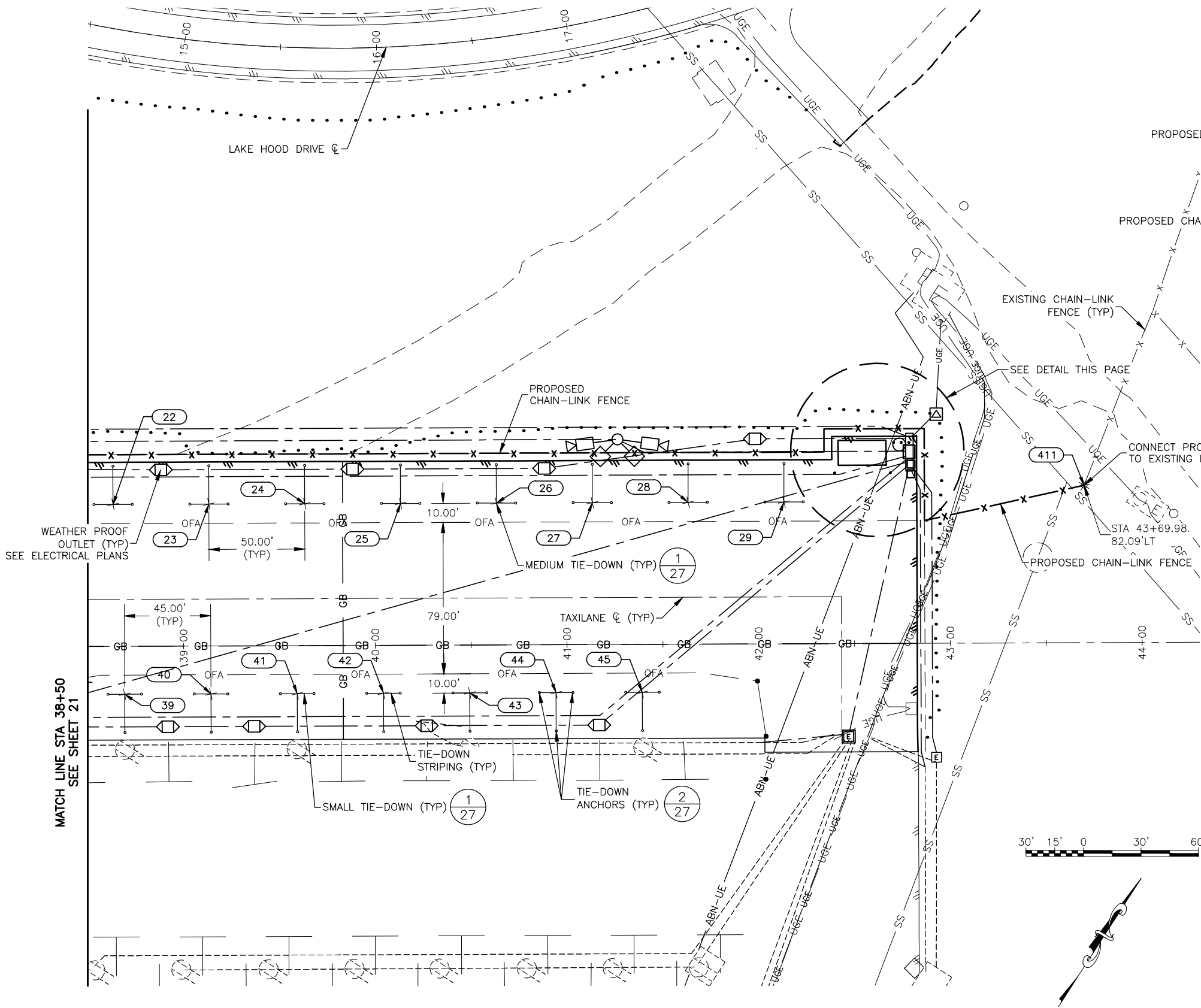
- NOTES:**
- SEE SUMMARY TABLE ON SHEET 6 FOR TIE DOWN POINT LOCATIONS.
 - SEE SUMMARY TABLE ON SHEET 22 FOR FENCE CORNER LOCATIONS.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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4111 AVIATION AVE., ANCHORAGE ALASKA 99502
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LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T-00001
FENCE AND TIE-DOWN LAYOUT

DATE: 04/09/2025
SHEET: 21 OF 38



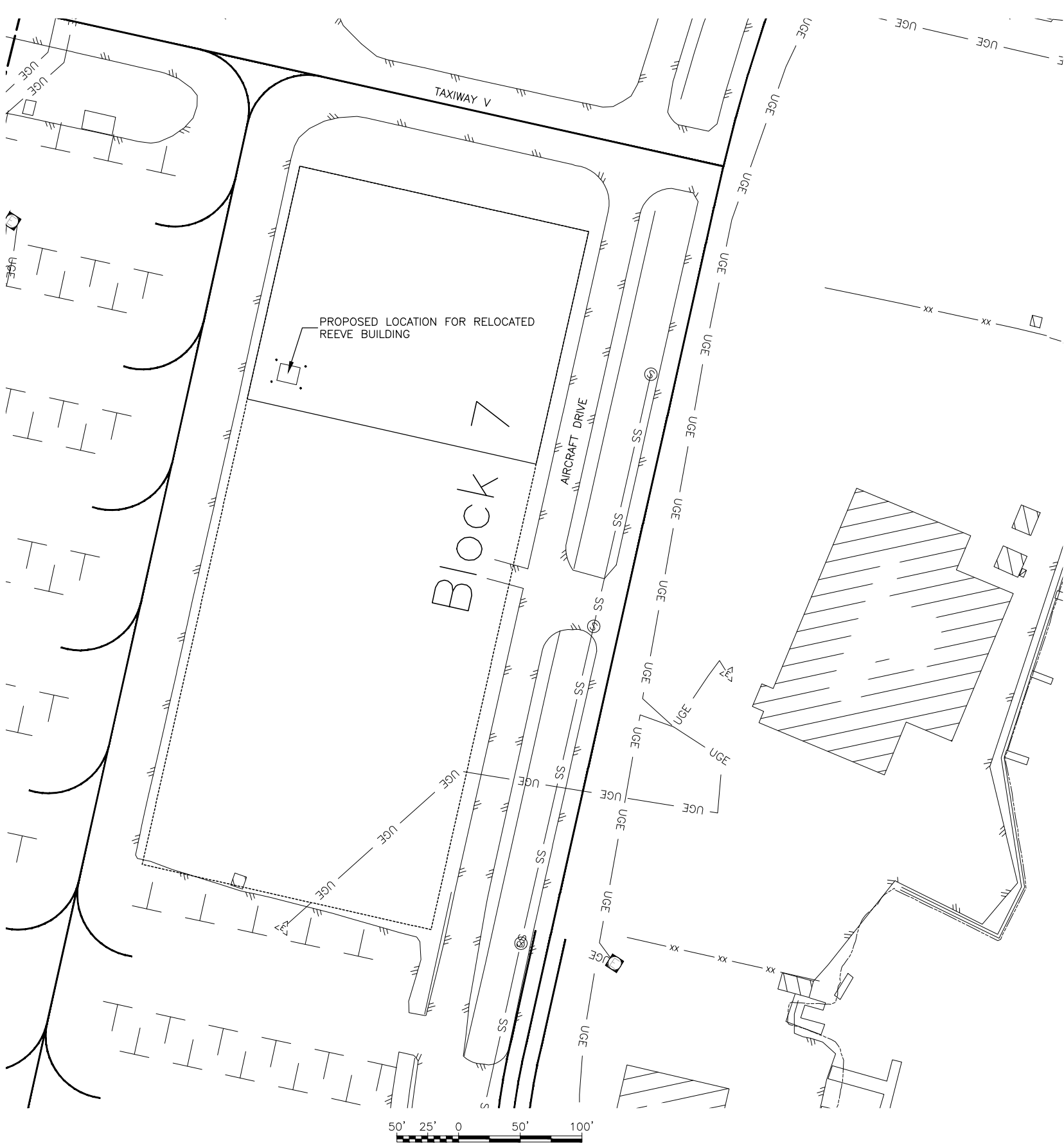
FENCE CORNER TABLE			
POINT #	STATION	OFFSET	DESCRIPTION
401	31+63.79	44.74RT	CONNECT TO EXISTING
402	33+40.06	207.00LT	FENCE CORNER
403	34+19.20	207.00LT	FENCE CORNER
404	34+19.20	239.00LT	FENCE CORNER
405	38+27.20	239.00LT	FENCE CORNER
406	38+27.20	100.00LT	FENCE CORNER
407	42+34.45	100.00LT	FENCE CORNER
408	42+34.45	112.00LT	FENCE CORNER
409	42+86.70	112.00LT	PRIVACY FENCE CORNER
410	42+86.70	64.00LT	END PRIVACY FENCE CORNER
411	43+69.98	82.09LT	CONNECT TO EXISTING
412	42+38.45	112.00LT	BEGIN CHAIN-LINK PRIVACY FENCE

BOLLARD TABLE			
POINT #	STATION	OFFSET	DESCRIPTION
501	42+70.70	104.75LT	BOLLARD
502	42+74.70	104.75LT	BOLLARD
503	42+78.70	104.75LT	BOLLARD
504	42+68.95	89.00LT	BOLLARD
505	42+39.95	89.00LT	BOLLARD

BUILDING CORNER TABLE			
POINT #	STATION	OFFSET	DESCRIPTION
601	42+41.70	106.00LT	BLDG CORNER
602	42+66.70	106.00LT	BLDG CORNER
603	42+66.89	93.00LT	BLDG CORNER
604	42+41.89	93.00LT	BLDG CORNER

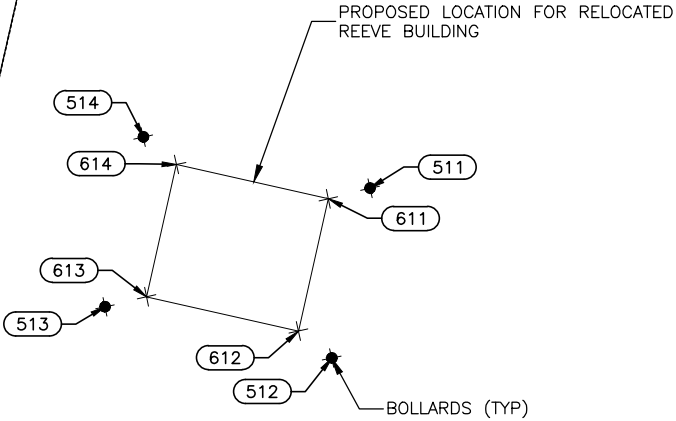
NOTES:

1. SEE SUMMARY TABLE ON SHEET 6 FOR TIE DOWN POINT LOCATIONS.



BOLLARD TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
513	326657.8099	331412.1958	BOLLARD
514	326674.8347	331405.9770	BOLLARD
511	326683.1413	331428.7173	BOLLARD
512	326666.1166	331434.9362	BOLLARD

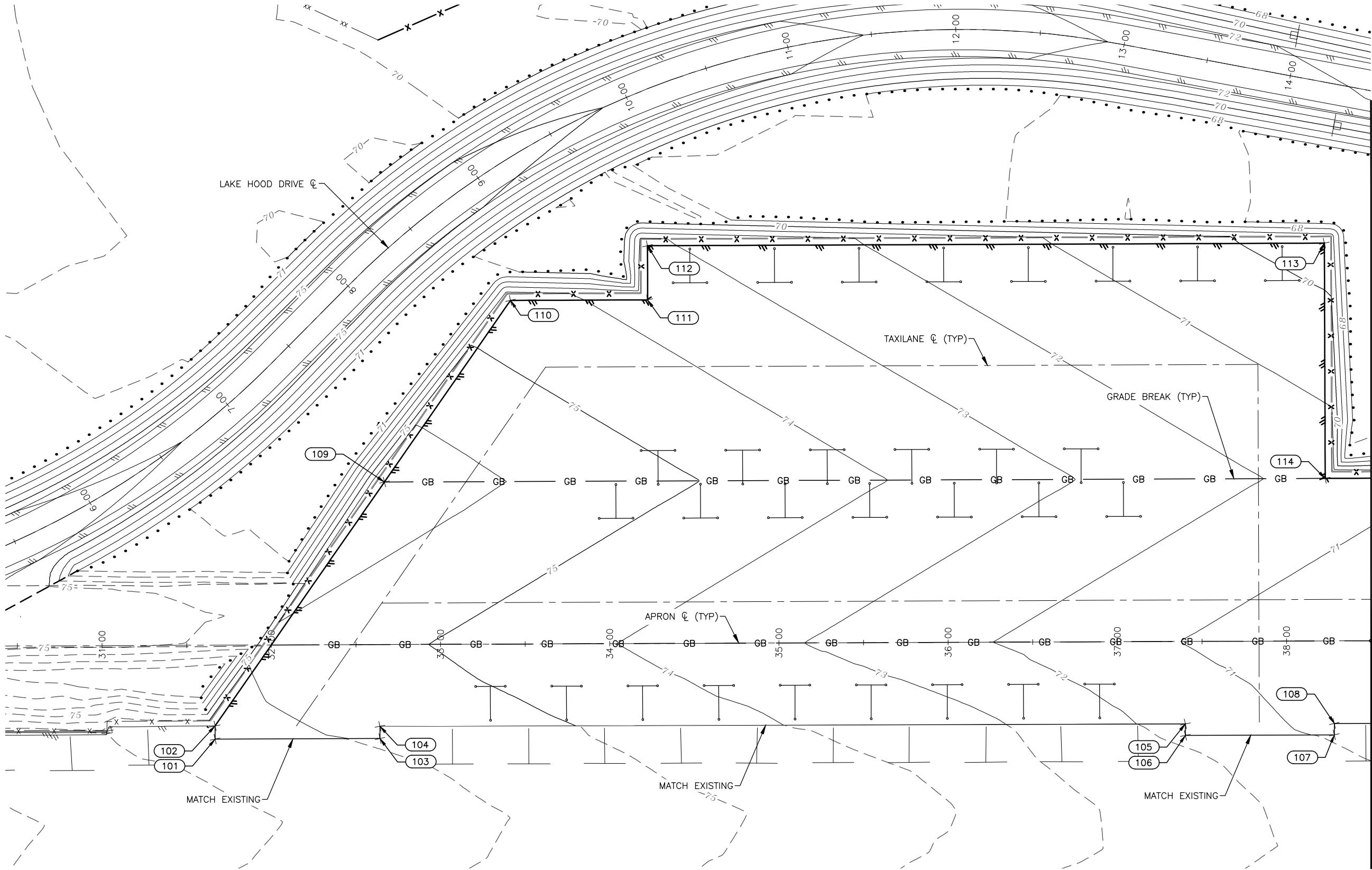
BUILDING CORNER TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
611	326679.8639	331425.6560	BLDG CORNER
612	326666.5963	331430.5024	BLDG CORNER
613	326661.0345	331415.2764	BLDG CORNER
614	326674.3021	331410.4300	BLDG CORNER



REEVE BUILDING RELOCATION LAYOUT

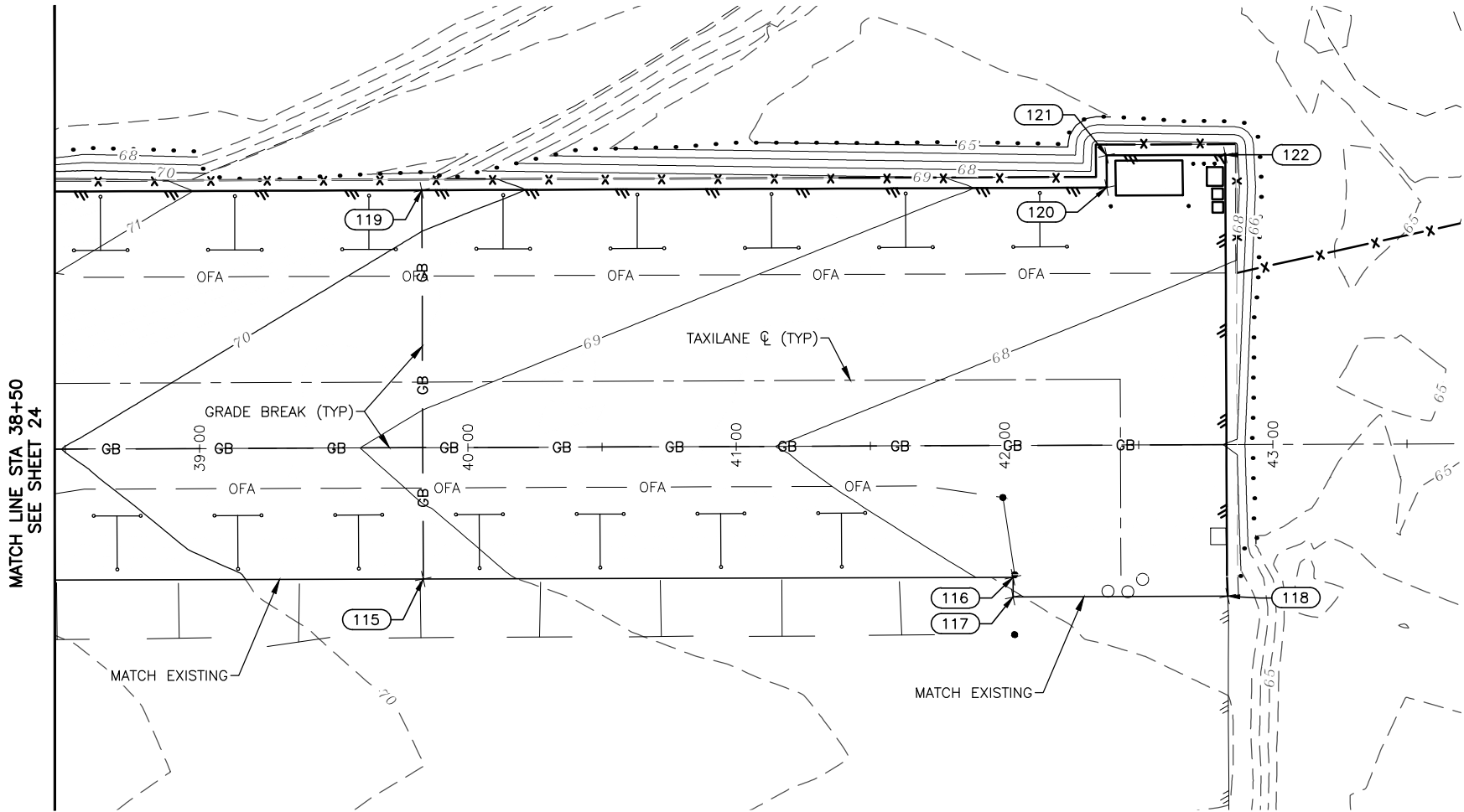
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GRADING PLAN 1
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Designed By: AAT
Drawn By: RUB
Checked By: TRI

Date Revised:
Layout Name:
File Path and Name:



- GRADING PLAN NOTES:**
- SEE SHEET 25 FOR GRADING POINT TABLE.
 - SEE SHEETS 21 AND 22 FOR FENCE CORNER LOCATIONS.

			STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590	LAKE HOOD SEAPLANE BASE ANCHORAGE, ALASKA ANC ATCT REPLACEMENT PARKING PROJECT No. CRMS00831 697DCK-22-T-00001 GRADING PLAN	DATE: 04/09/2025 SHEET: 24 of 38
BY	DATE	REVISION			



GRADING TABLE				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
101	31+66.60	55.50RT	76.44	MATCH EXISTING
102	31+66.60	47.70RT	76.31	MATCH EXISTING
103	32+64.00	55.50RT	75.89	MATCH EXISTING
104	32+64.00	48.29RT	75.65	MATCH EXISTING
105	37+40.00	48.72RT	71.67	MATCH EXISTING
106	37+40.00	55.50RT	71.85	MATCH EXISTING
107	38+28.00	55.50RT	70.92	MATCH EXISTING
108	38+28.00	48.80RT	70.79	MATCH EXISTING
109	32+67.22	96.00LT	76.67	GRADE BREAK / PAVEMENT EDGE
110	33+42.14	203.00LT	74.39	PAVEMENT EDGE
111	34+23.20	203.00LT	73.66	PAVEMENT EDGE
112	34+23.20	235.00LT	73.18	PAVEMENT EDGE
113	38+23.20	235.00LT	69.58	PAVEMENT EDGE
114	38+23.20	96.00LT	71.67	GRADE BREAK / PAVEMENT EDGE
115	39+83.21	48.94RT	69.30	GRADE BREAK / MATCH EXISTING
116	42+03.00	49.14RT	67.92	MATCH EXISTING
117	42+03.00	56.50RT	68.04	MATCH EXISTING
118	42+82.95	56.50RT	67.56	MATCH EXISTING
119	39+83.20	96.00LT	70.23	GRADE BREAK / PAVEMENT EDGE
120	42+38.45	96.00LT	68.70	PAVEMENT EDGE
121	42+38.45	108.00LT	68.52	PAVEMENT EDGE
122	42+82.70	108.00LT	68.25	PAVEMENT EDGE

GRADING PLAN NOTES:

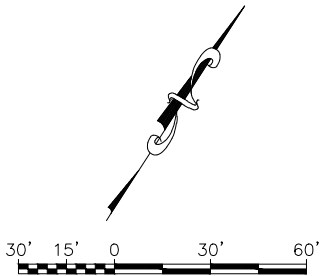
- ALL STATIONS AND OFFSETS BASED ON APRON ALIGNMENT.
- SEE SHEETS 21 AND 22 FOR FENCE CORNER LOCATIONS.

BY	DATE	REVISION

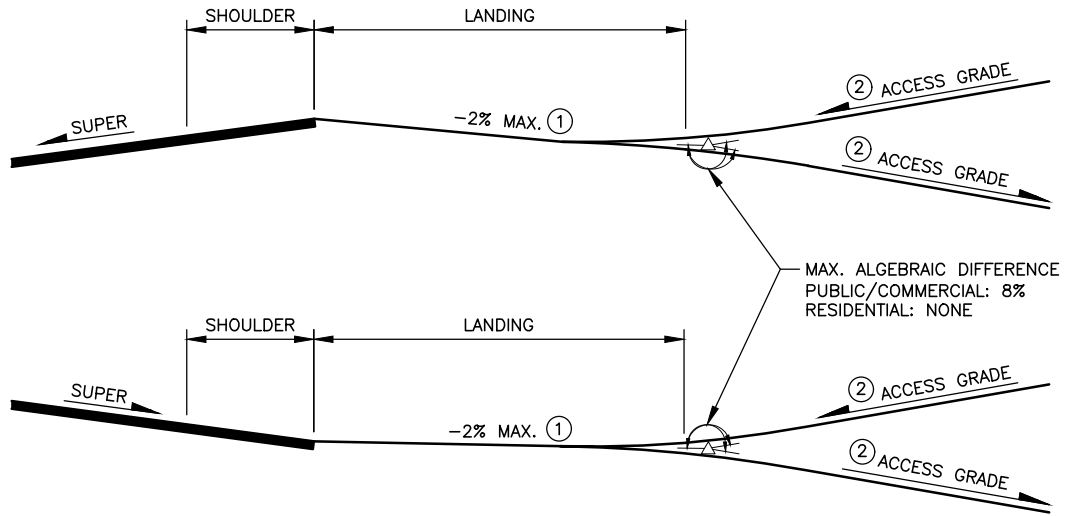
STATE OF ALASKA
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CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
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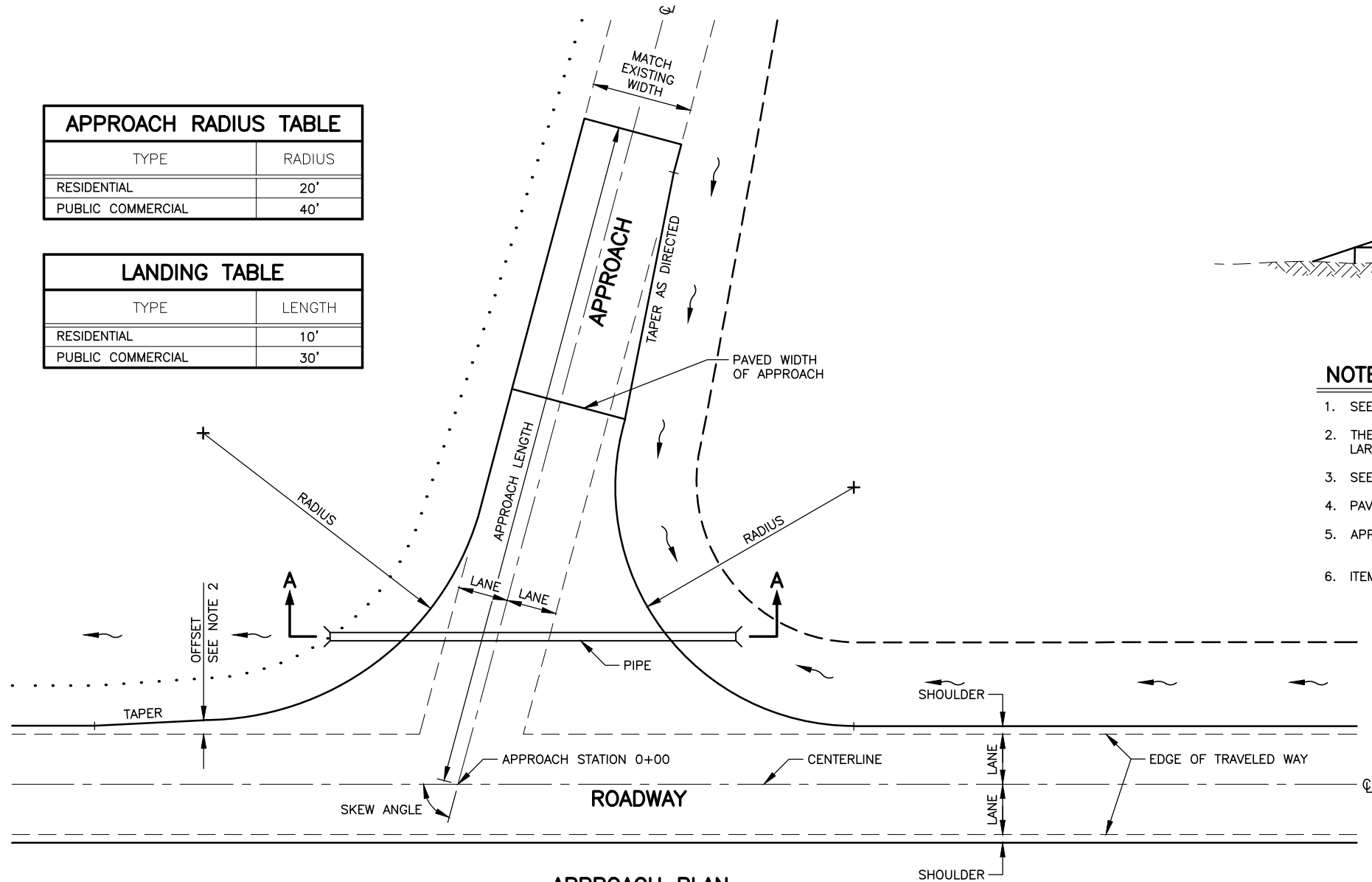
4/09/2025, 1:00 PM
Date Revised: 4/09/2025, 1:00 PM
Layout Name: APPROACH DETAILS
File Path and Name: W:\Projects\VA Lake Hood\ANC ATCT Replacement\Parking_00831\03\03\Plan\00831-ANC-DETAILS.dwg
Designed By: AAT
Drawn By: RUB
Checked By: TRI



APPROACH PROFILES ON SUPER ELEVATED ROADWAY

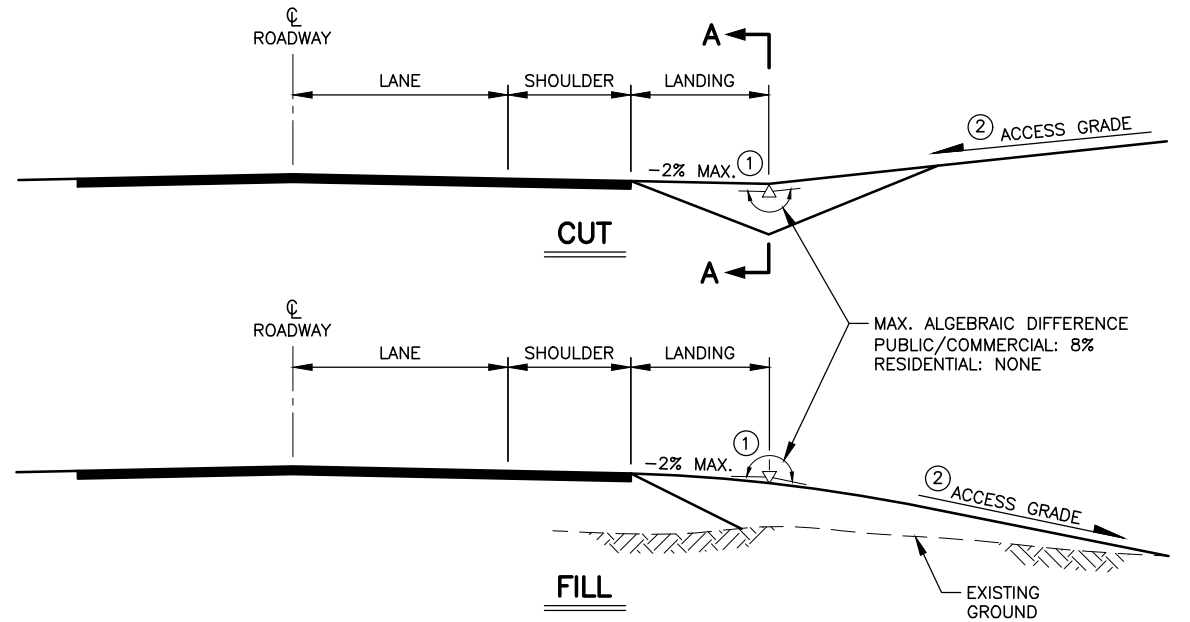
APPROACH RADIUS TABLE	
TYPE	RADIUS
RESIDENTIAL	20'
PUBLIC COMMERCIAL	40'

LANDING TABLE	
TYPE	LENGTH
RESIDENTIAL	10'
PUBLIC COMMERCIAL	30'

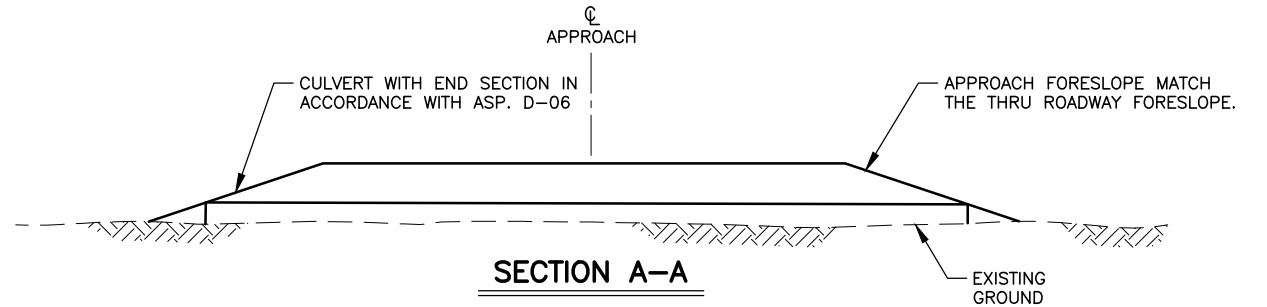


APPROACH PLAN

- ① WHEN PATHWAY IS PRESENT, MAXIMUM LANDING GRADE IS TO BE -1.5%.
- ② ACCESS GRADE MAX. 15%



APPROACH PROFILES



SECTION A-A
APPROACH TYPICAL

NOTES:

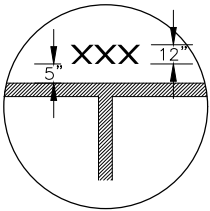
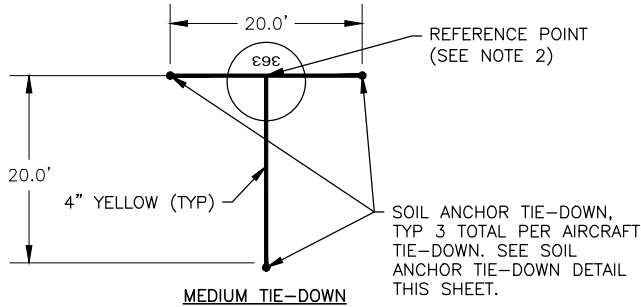
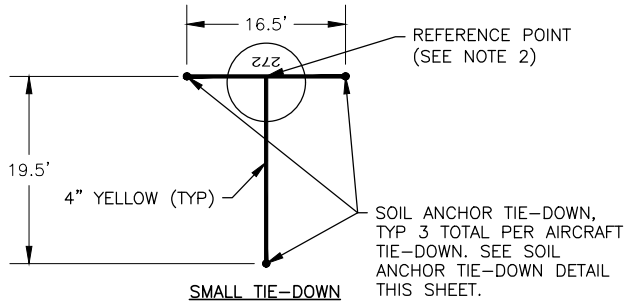
- SEE APPROACH SUMMARY FOR APPROACH STATION, LENGTH, WIDTH, SKEW ANGLE, AND TYPE.
- THE TAPER OFFSET FROM TRAVELED WAY = ASSIGNED VALUE OR SHOULDER WIDTH WHICHEVER IS LARGER. TAPER WILL BE 10 FEET IN LENGTH FOR EACH FOOT OF OFFSET.
- SEE PUBLIC APPROACH AND DRIVEWAY TYPICAL SECTIONS.
- PAVE TO THE END OF THE RADIUS RETURN UNLESS OTHERWISE INDICATED.
- APPROACH VERTICAL CURVE REQUIREMENTS: CREST - 2 1/2 INCH MAXIMUM IN A 10-FOOT CHORD
SAG - 2 INCH MAXIMUM IN A 10-FOOT CHORD
- ITEMS AND MATERIAL OF APPROACH ARE SUBSIDIARY TO THE RESPECTIVE ITEMS OF WORK.

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LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
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TIE-DOWN LAYOUT

TIE-DOWN NOTES:

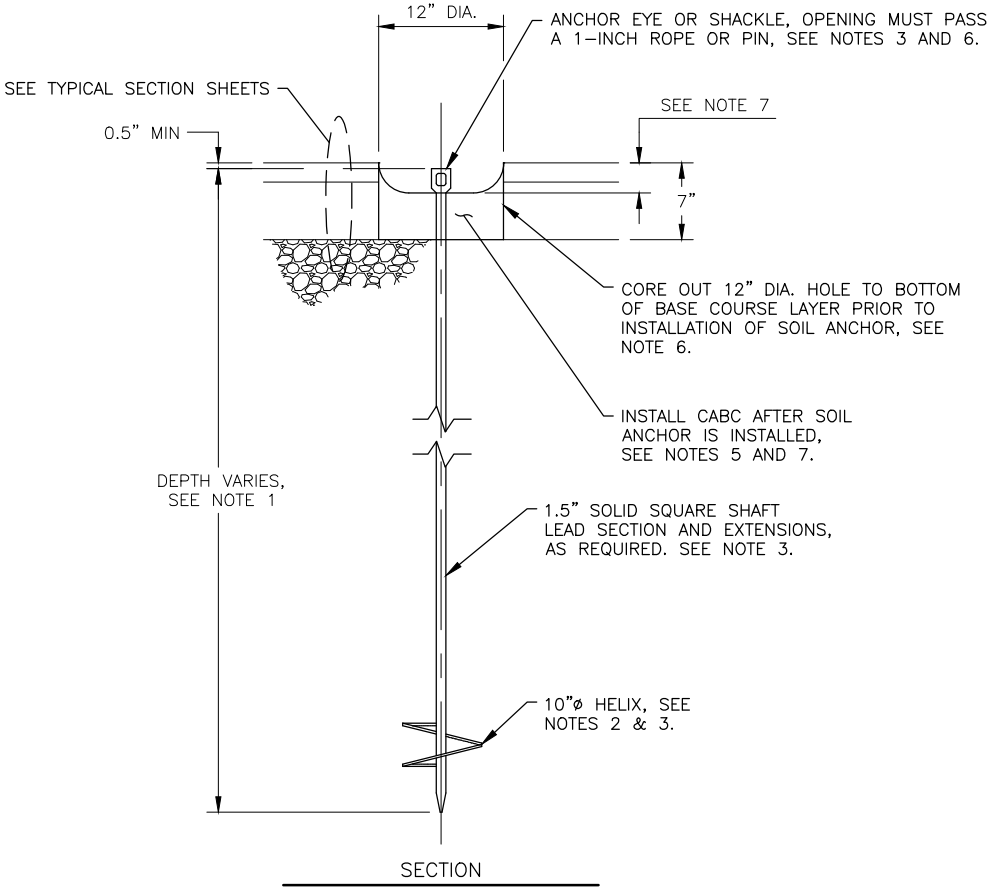
1. LOCATE UNDERGROUND UTILITIES PRIOR TO INSTALLING ANCHORS AND COORDINATE WITH THE ENGINEER ANY NECESSARY ADJUSTMENTS TO AVOID CONFLICTS.
2. SEE SHEETS 21 AND 22 FOR REFERENCE POINT LOCATIONS AND ORIENTATIONS.
3. SEE SHEET 35 FOR MARKING PLAN AND NUMBERING.CONFIRM LOCATION OF TIE-DOWN ANCHORS PRIOR TO STRIPING OF AIRCRAFT TIE-DOWNS.

1

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TIE-DOWN DETAIL

SCALE: NTS



SOIL ANCHOR TIE-DOWN NOTES:

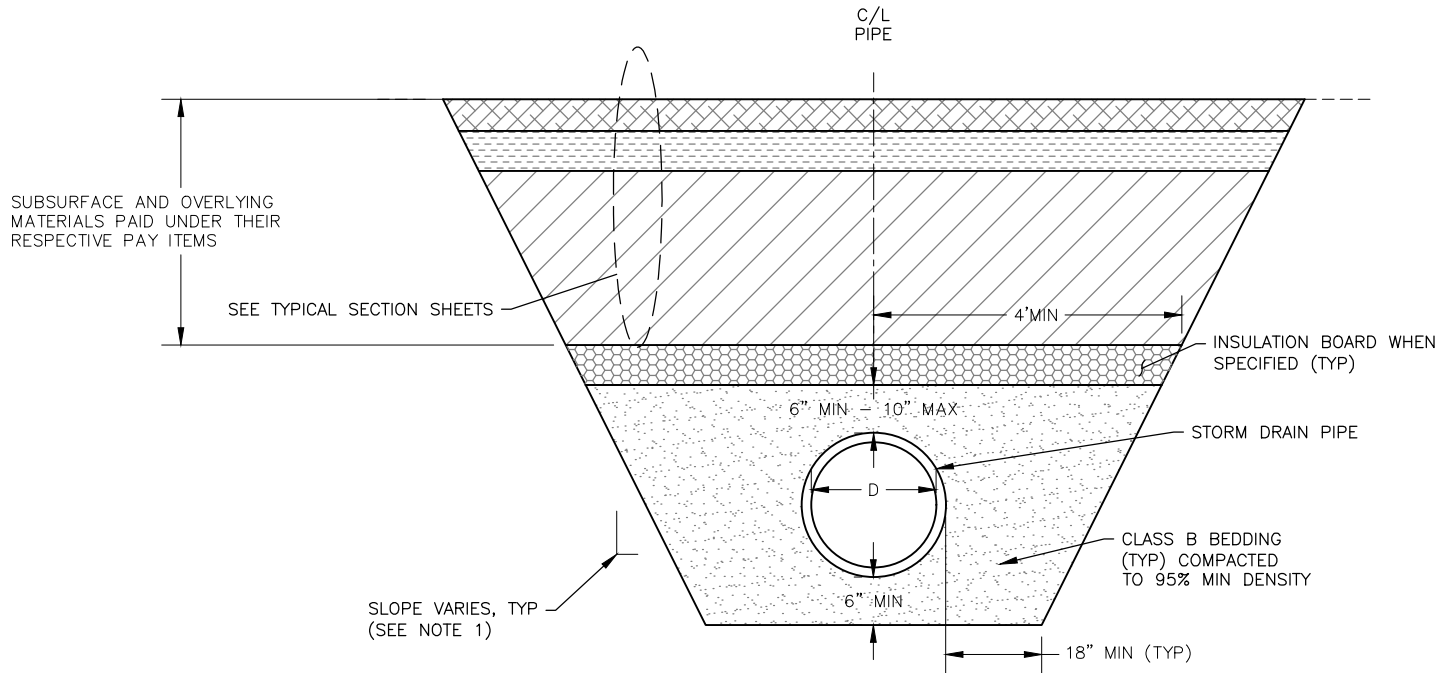
1. MINIMUM EMBEDMENT 10 FEET BELOW FINISH GRADE.
2. HELIX PLATES SHALL BE AT LEAST 3/8-INCH THICK.
3. ALL HELICAL ANCHOR MATERIALS SHALL BE HOT DIP GALVANIZED.
4. SEE TIE-DOWN LAYOUT SHEETS 21-22 FOR SOIL ANCHOR TIE-DOWN ORIENTATION.
5. HAND TAMP CABG TO COMPACT TO SATISFACTION OF ENGINEER.
6. INSTALL SOIL ANCHOR SO THAT ANCHOR EYE IS CENTERED WITHIN THE CORED AREA.
7. INSTALL CABG UP TO BOTTOM OF ANCHOR EYE OPENING.

2

27

TYPICAL SOIL ANCHOR TIE-DOWN DETAIL

SCALE: NTS



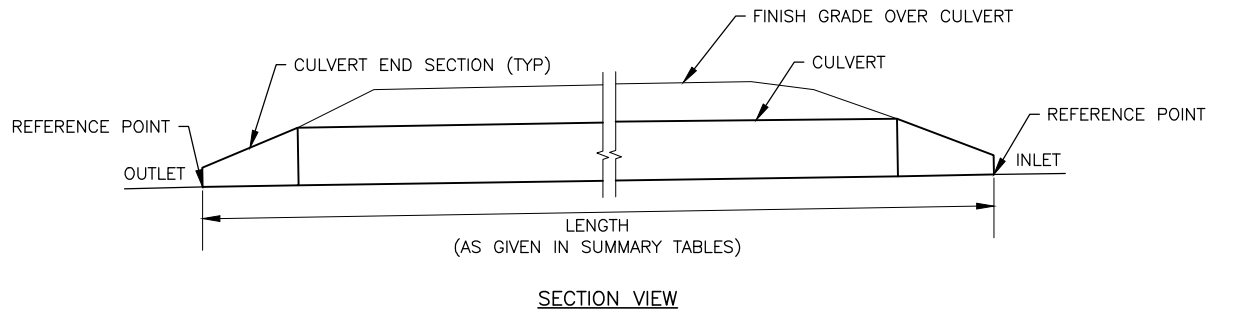
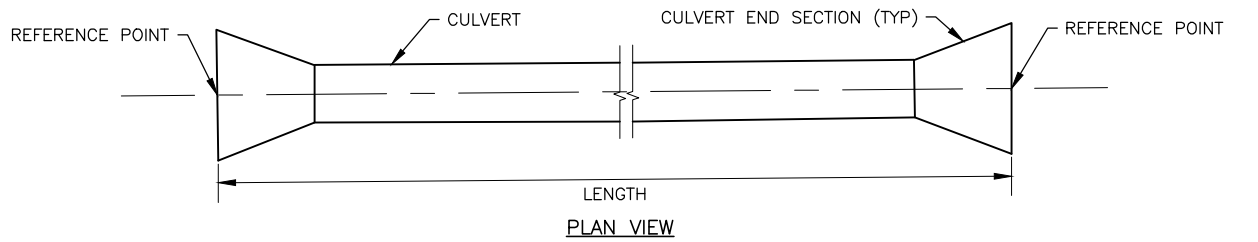
1
28

STORM DRAIN TRENCH TYPICAL

SCALE: NTS

NOTES:

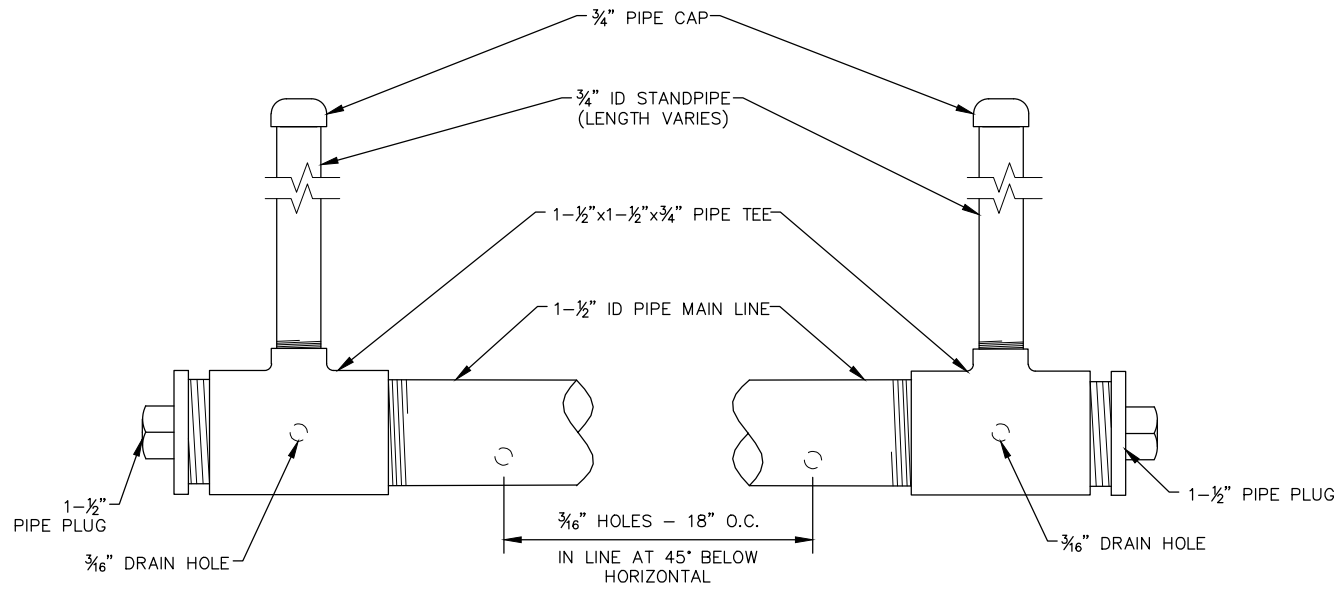
1. TRENCH WALL SLOPES WILL VARY WITH SOIL STRENGTH AND CHARACTER. SLOPES SHALL CONFORM WITH OSHA REGULATIONS AND REQUIREMENTS.
2. EXCAVATION, BEDDING, BACKFILL, AND FILTER MATERIALS WILL BE SUBSIDIARY TO PIPE ITEMS.
3. PERMANENT STORM DRAIN INSTALLATION MAY NOT OCCUR UNTIL EMBANKMENT SURCHARGE LOAD HAS BEEN REMOVED. SEE SHEETS 11 AND 13.
4. INSTALL SAND BLANKET PER SPECIFICATION P-190.
5. INSULATION BOARD TO BE INSTALLED FROM STRUCTURE. REVIEW PIPE SUMMARY TABLE ON SHEET 5 FOR WHICH PIPES REQUIRE INSULATION BOARD.
6. INSULATION BOARD IS SUBSIDIARY TO THE RESPECTIVE ITEMS OF WORK. SEE SPECIFICATION P-190.
7. JOINTS IN INSULATION BOARD SHALL BE STAGGERED WHEN MULTIPLE LAYERS ARE REQUIRED.



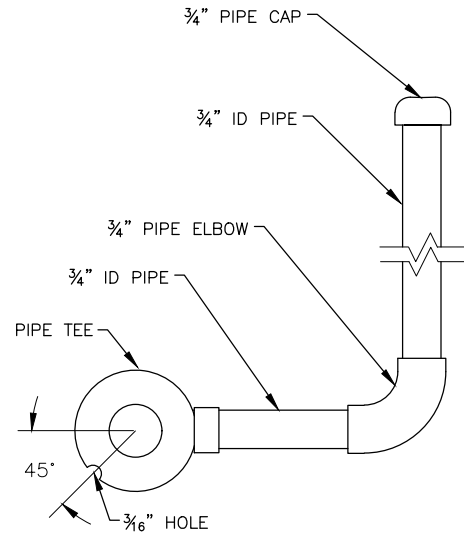
2
28

CULVERT REFERENCE DETAIL

SCALE: NTS

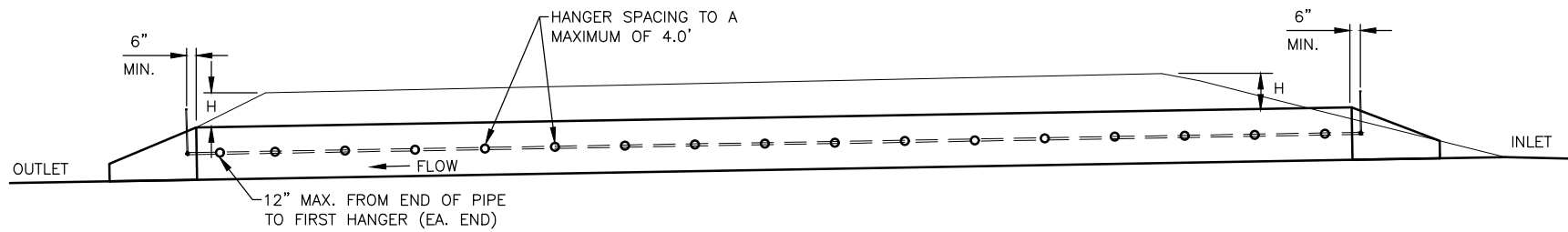


PLAN VIEW



END SECTION

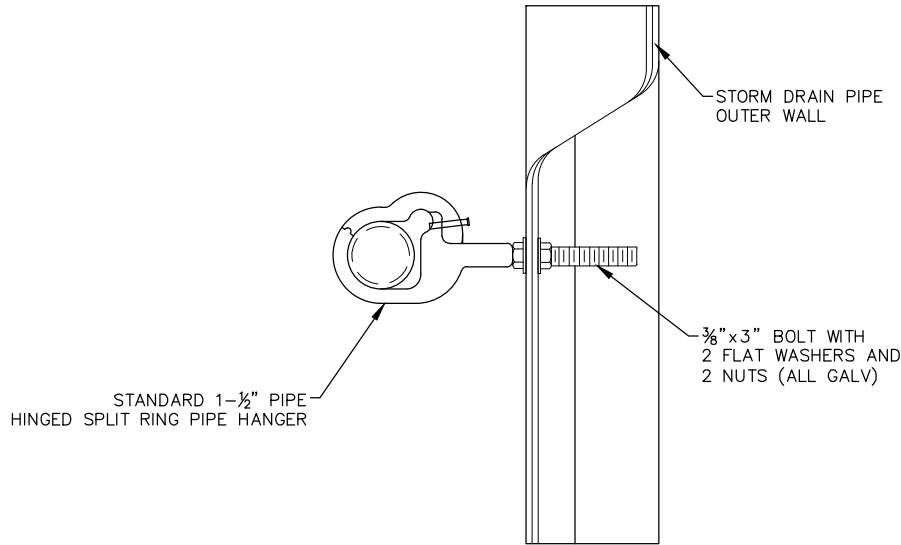
1 STANDARD SINGLE THAW PIPE DETAIL
SCALE: NTS



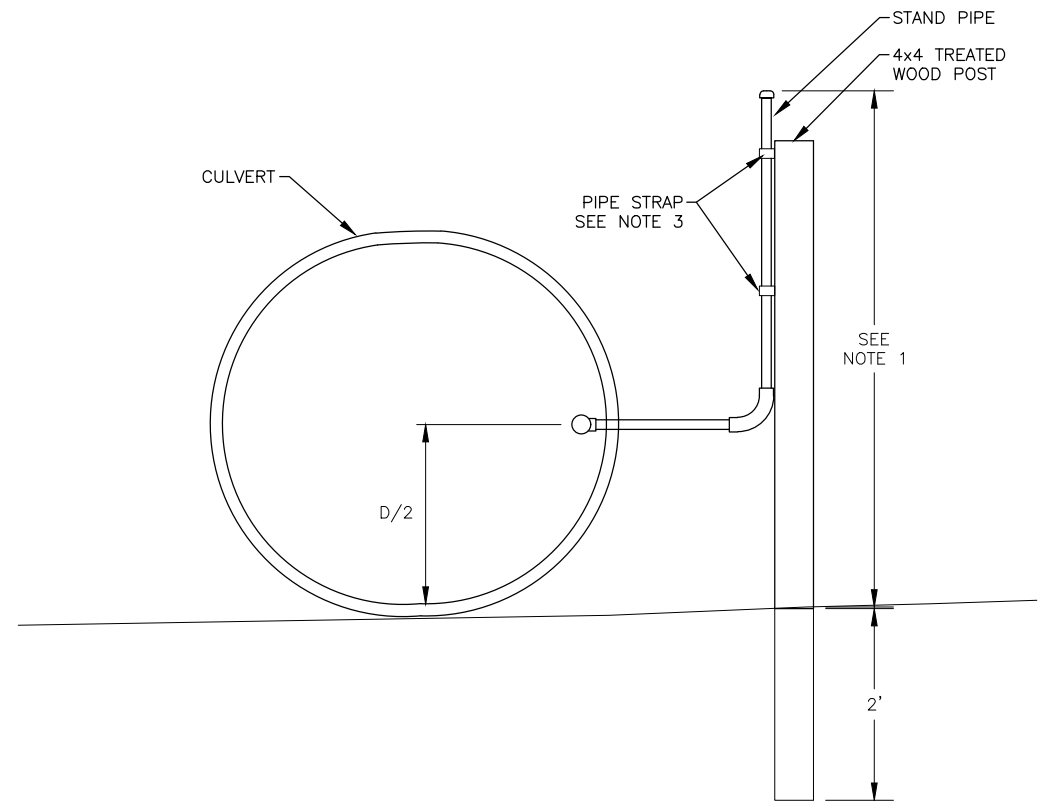
2 CULVERT THAW PIPE DETAIL
SCALE: NTS

NOTES:

- HEIGHT OF ALL STANDPIPES TO BE 1/2 THE HEIGHT OF CULVERT COVER OR 5' WHICHEVER IS LESS.
- USE PRESSURE TREATED SUPPORT POSTS OF HEM-FIR, NO. 2 OR BETTER. USE AMMONIACAL COPPER ZINC ARSENATE (ACZA) OR CHROMATED COPPER ARSENATE (CCA) PRESERVATIVES ON SUPPORT POSTS. PRESSURE TREAT IN ACCORDANCE WITH AASHTO M133.
- FASTEN STAND PIPE TO SUPPORT POSTS WITH GALVANIZED RIGID CONDUIT STRAPS AND 3" LONG GALVANIZED LAG SCREWS AT MAX. 12" CENTERS.



3 THAW PIPE HANGER DETAIL
SCALE: NTS



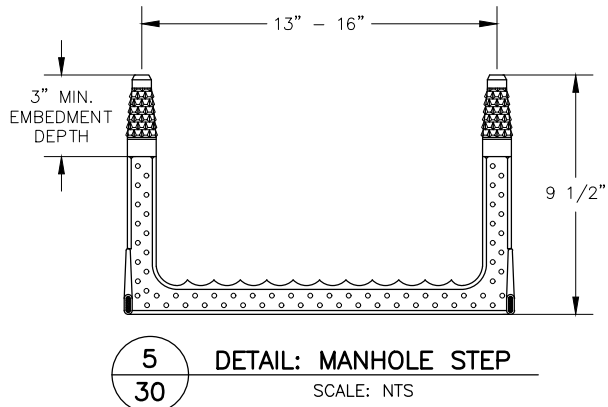
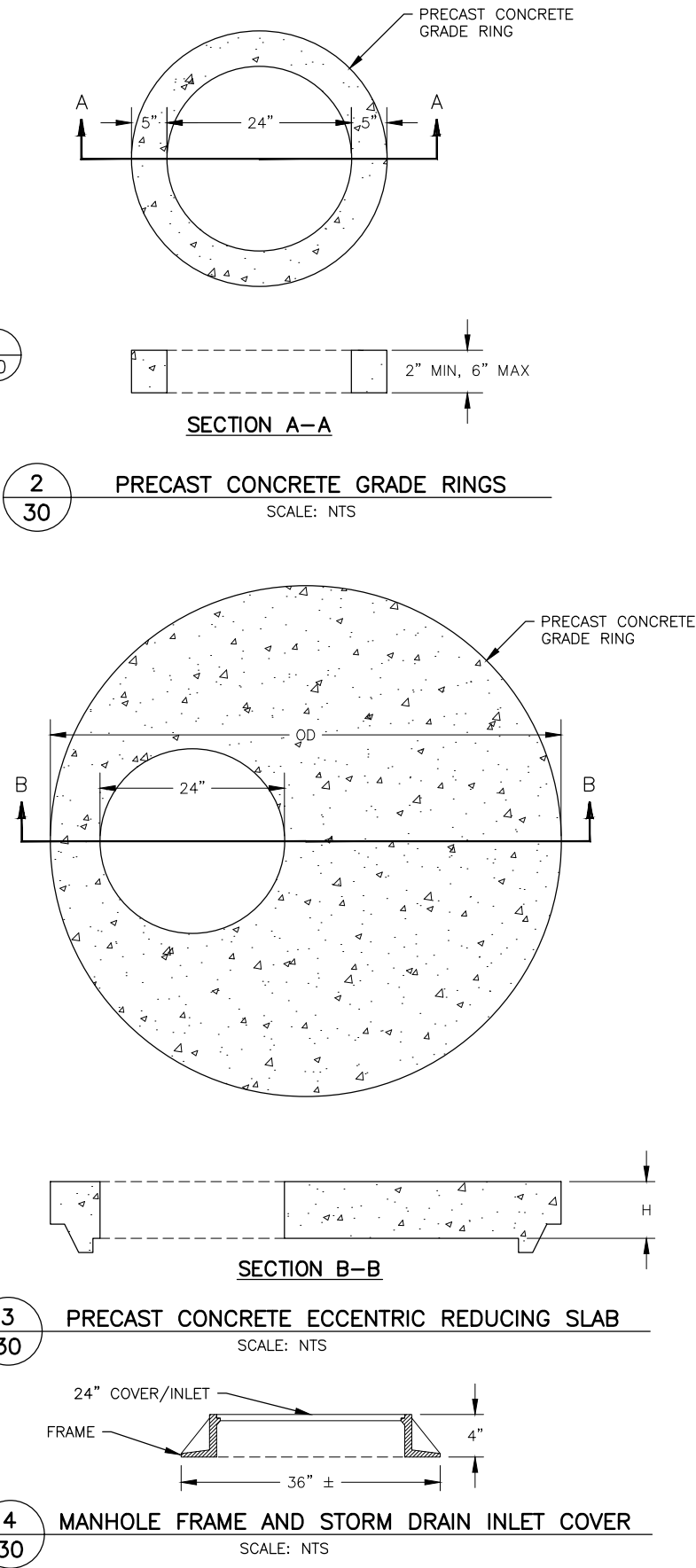
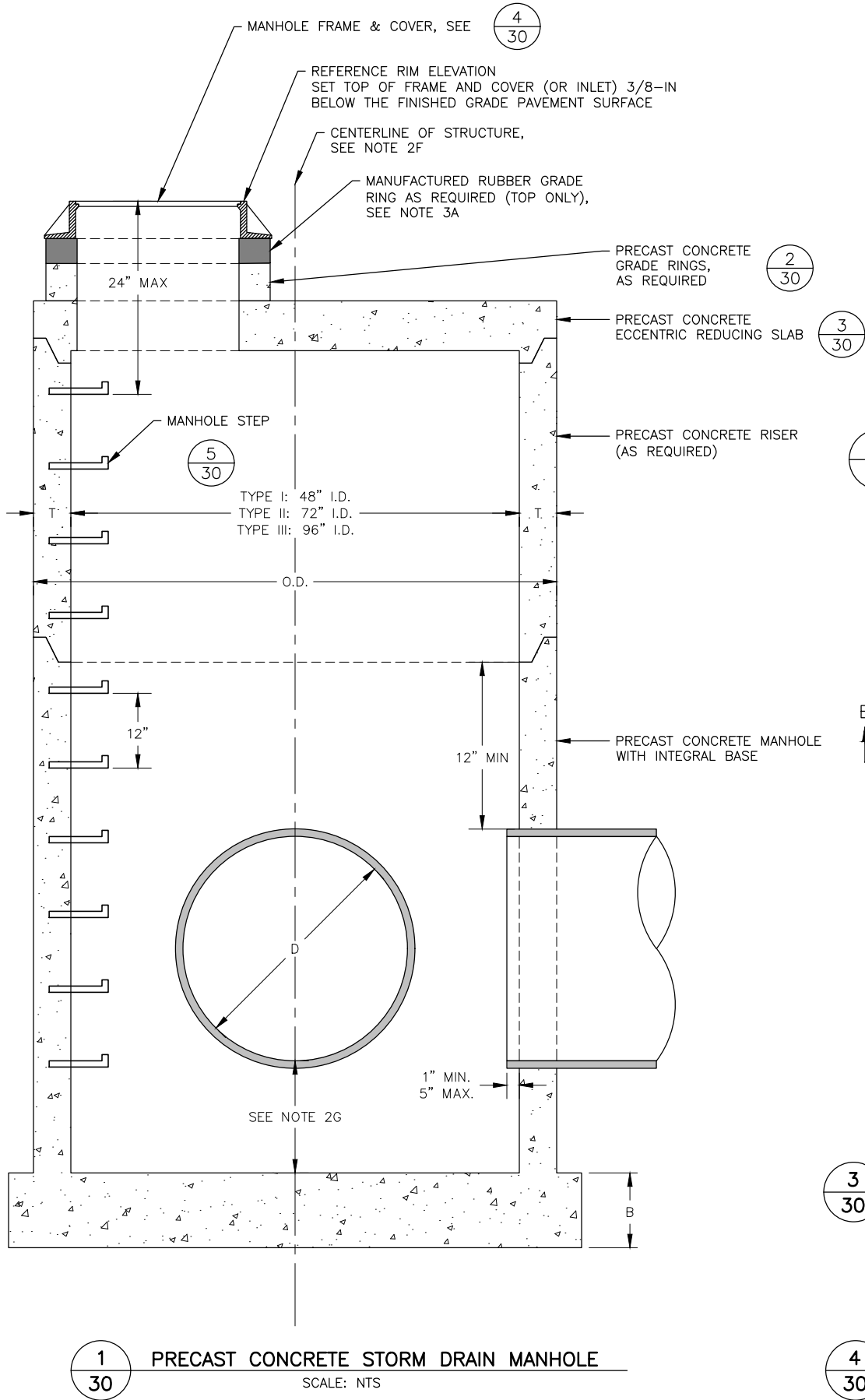
4 STANDARD BRACE
SCALE: NTS

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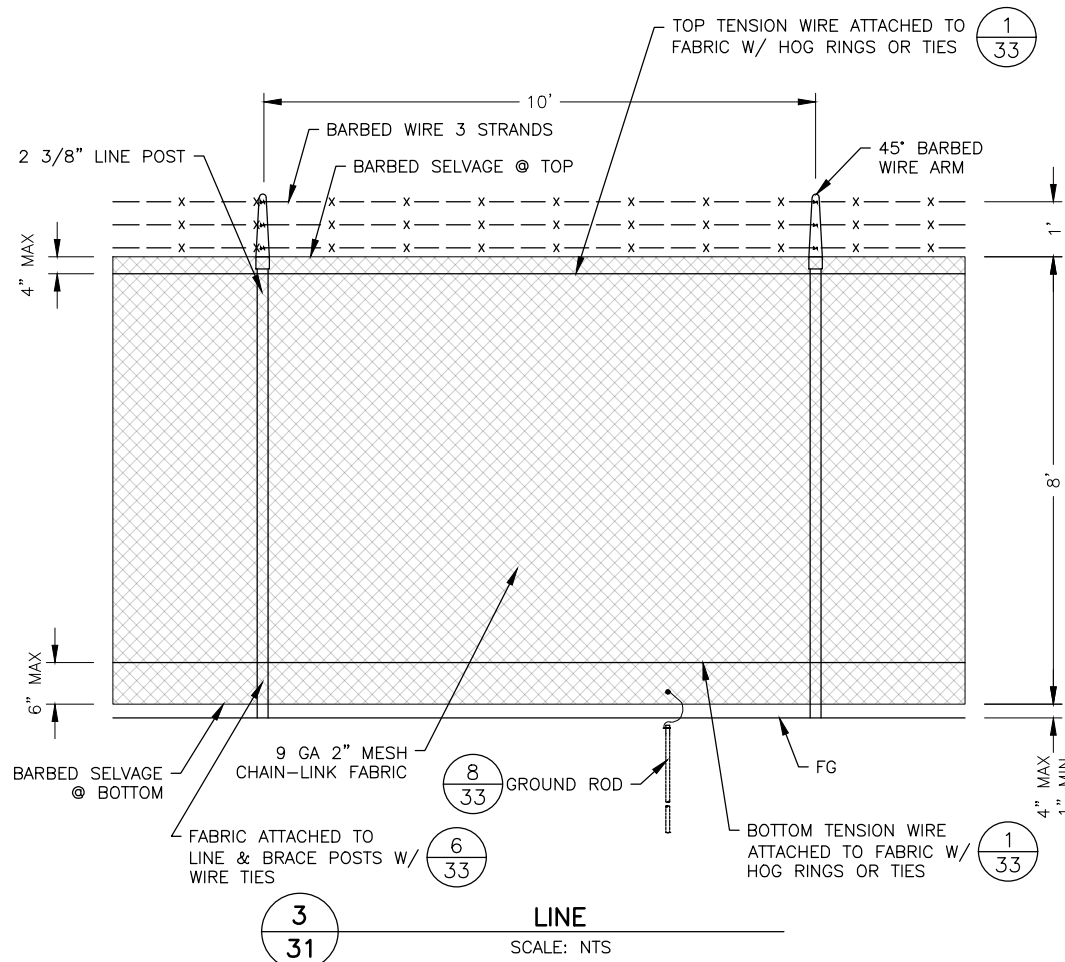
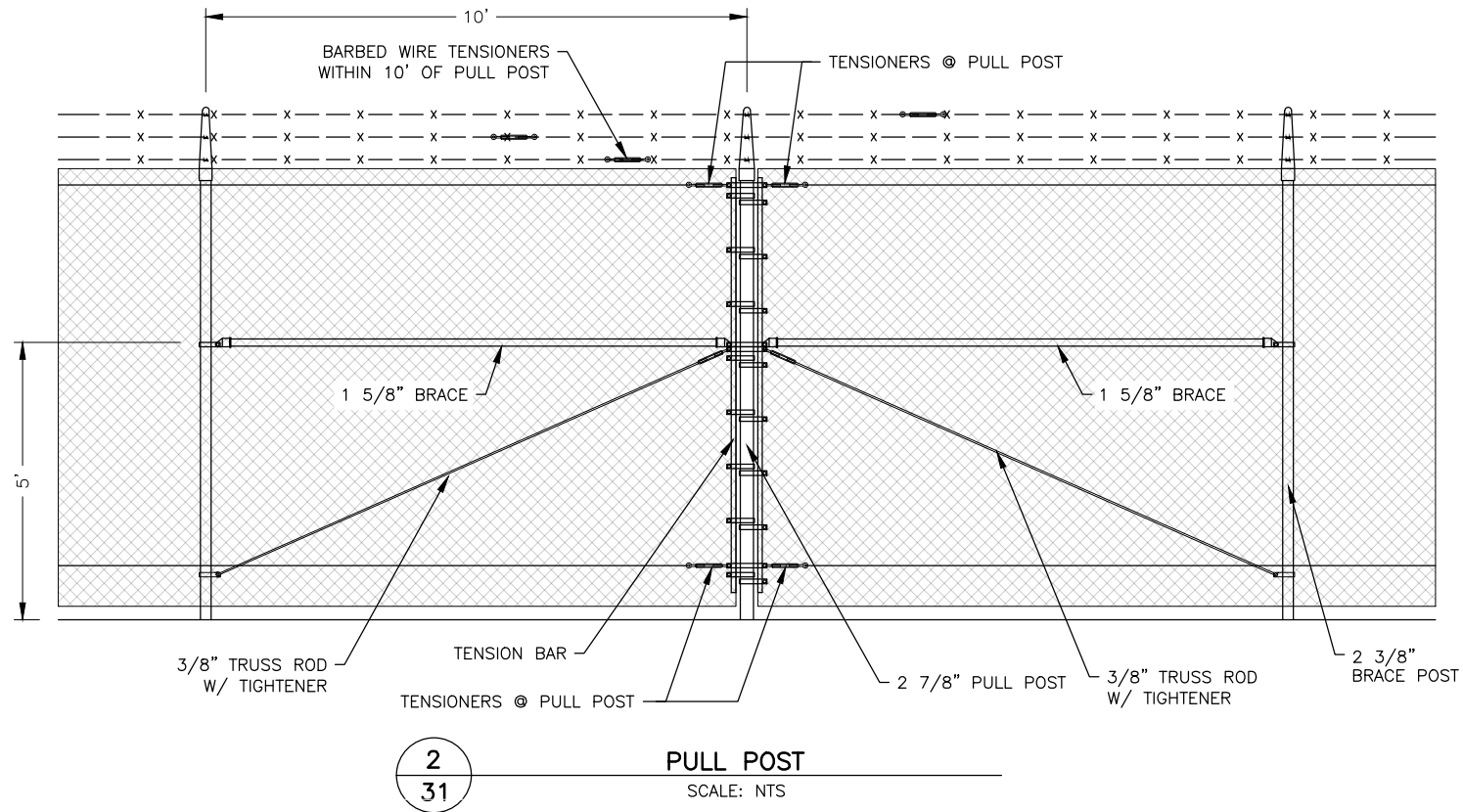
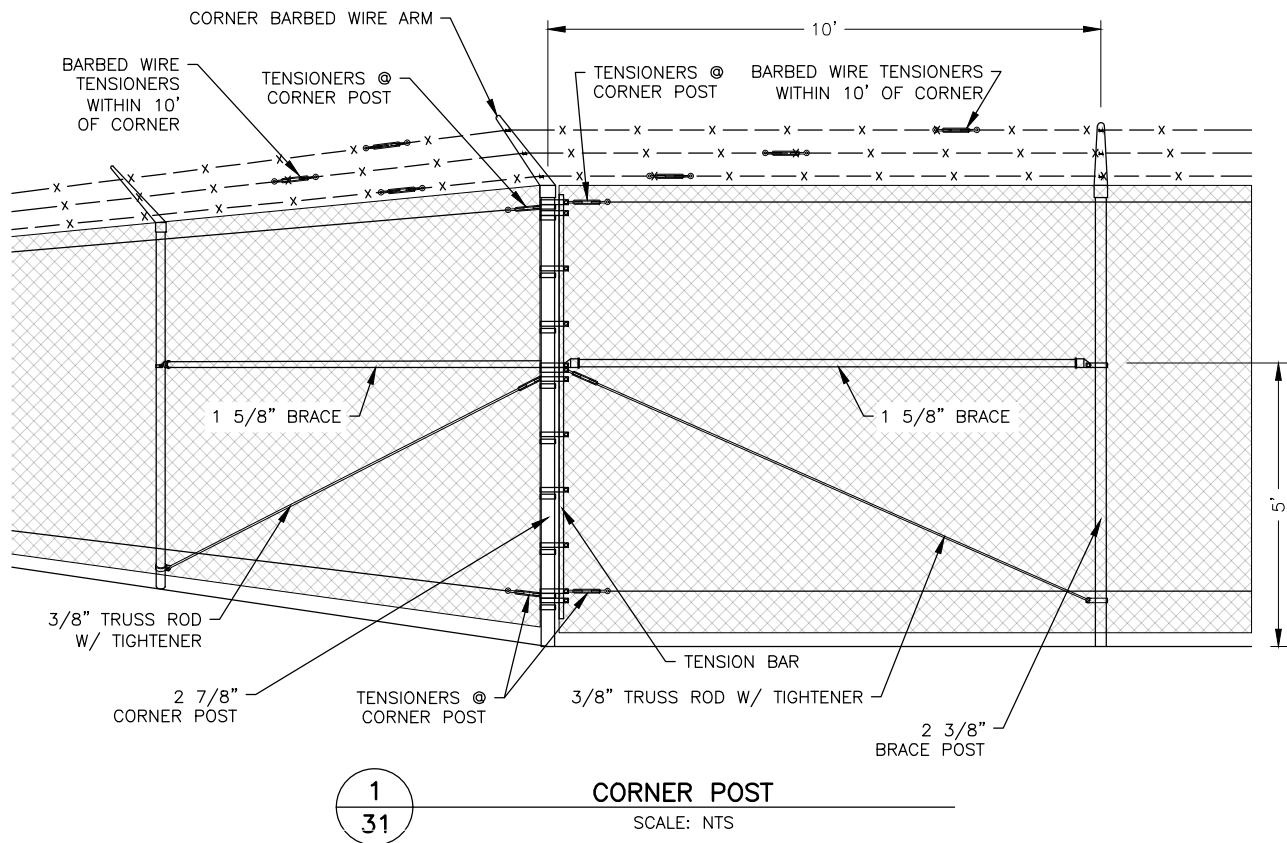
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LAKE HOOD SEAPLANE BASE
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- DETAIL NOTES:**
- DESIGN ALL CONCRETE STRUCTURES AND STEEL REINFORCEMENT TO MEET THE LOADING CRITERIA PROVIDED IN THE CURRENT FAA AC 150/5320-6, THE REQUIREMENTS OF ASTM C478, AND THE DESIGN LOADS PROVIDED IN THE SPECIFICATIONS (D751). WALL, FLOOR, AND SLAB THICKNESS DIMENSIONS WILL VARY BASED ON LOAD REQUIREMENTS, SIZE AND DEPTH OF STRUCTURE. PROVIDE SHOP DRAWINGS FOR EACH STRUCTURE WITH A LETTER FROM THE PRECAST SUPPLIER CERTIFYING COMPLIANCE WITH THE REQUIREMENTS ABOVE, AND SEALED BY A CIVIL ENGINEER CURRENTLY REGISTERED IN THE STATE OF ALASKA.
 - PRECAST CONCRETE MANHOLE**
 - EMBED STEEL FROM FIRST BARREL INTO MANHOLE BASE TO PROVIDE AN INTEGRAL-BASE MANHOLE.
 - CONSTRUCT MANHOLE WITH 48-INCH I.D. FOR MANHOLES WITH PIPE DIAMETERS (D) LESS THAN OR EQUAL TO 24-INCHES. CONSTRUCT MANHOLE WITH 72-INCH I.D. FOR MANHOLES WITH PIPE DIAMETERS (D) BETWEEN 24 - 36 INCHES. CONSTRUCT MANHOLE WITH 96-INCH I.D. FOR MANHOLES WITH PIPE DIAMETERS (D) GREATER THAN 36 INCHES UP TO 48-INCHES.
 - PROVIDE MINIMUM 135° BETWEEN PIPE PENETRATIONS GREATER THAN 24-INCHES OR MAINTAIN 8-INCH VERTICAL CLEARANCE FOR PIPE PENETRATIONS WITH ANGLES LESS THAN 135°.
 - PLACE CONCRETE MANHOLE / MANHOLE BASE ON 6-INCH MINIMUM CRUSHED AGGREGATE BASE COURSE. COMPACTED TO 95% MINIMUM DENSITY.
 - SEAL PIPE PENETRATIONS WITH NON-SHRINKABLE GROUT IN ACCORDANCE WITH THE SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS.
 - OFFSETS ARE MEASURED BETWEEN THE CENTERLINE OF THE ALIGNMENT AND THE CENTERLINE OF THE STRUCTURE.
 - ALL STORM DRAIN MANHOLES SHALL HAVE 18" MIN SUMPS.
 - GRADE RINGS**
 - PROVIDE MINIMUM OF ONE 2-INCH GRADE RING ABOVE EACH REDUCING SLAB UNLESS OTHERWISE NOTED ON THE PLANS. PROVIDE MANUFACTURED RUBBER GRADE RINGS (NOT TO EXCEED 3" THICK) IMMEDIATELY BELOW THE FRAME AND SEAL USING SELF LEVELING POLYURETHANE SEALANT, OR AS RECOMMENDED BY THE MANUFACTURER. PROVIDE A COMBINATION OF TAPERED RUBBER GRADE RINGS AS NEEDED TO MATCH FINISHED GRADE SLOPES. PROVIDE PRECAST CONCRETE GRADE RINGS BELOW RUBBER GRADE RINGS AS REQUIRED.
 - PRECAST CONCRETE ECCENTRIC REDUCING SLAB**
 - CONSTRUCT ECCENTRIC REDUCING SLAB WITH MALE OR FEMALE END AS NEEDED TO MATCH MANHOLE RISER.
 - ALIGN REDUCING SLAB SO THAT THE MANHOLE STEPS ARE IN LINE WITH THE MANHOLE FRAME AND COVER.
 - MANHOLE FRAME AND COVER/INLET**
 - PROVIDE MANHOLE FRAME AND COVER (OR INLET) IN ACCORDANCE WITH THE SUMMARY TABLES.
 - FRAMES, GRATES, AND COVERS SHALL MEET LOADING REQUIREMENTS SPECIFIED PER D751.
 - MANHOLE STEPS**
 - PROVIDE SLIP RESISTANT FOOT TREAD WITH "WINGS" TO PREVENT FEET FROM SLIDING OFF THE EDGE AND INCLUDE REFLECTORS AT THE STEP CORNERS.
 - INSTALL MANHOLE STEPS TO RESIST A PULLOUT FORCE OF 1500LB.



NOTES:

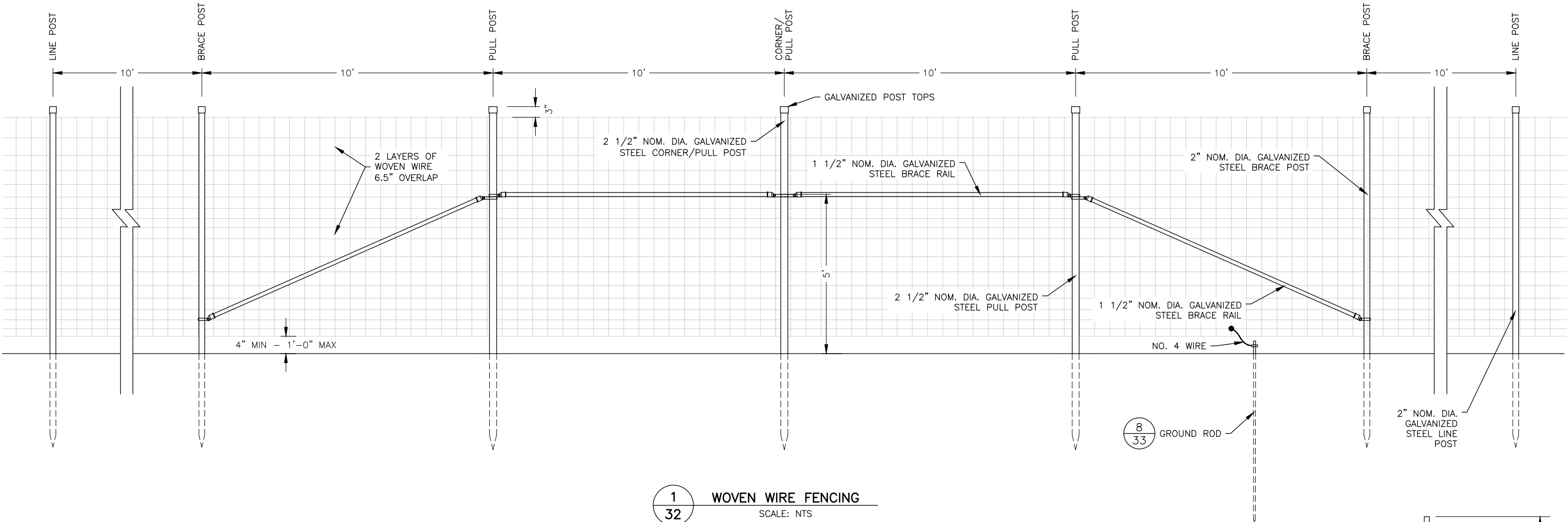
- SEE SHEET 33 FOR FENCING DETAILS.

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LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
CHAIN-LINK FENCING DETAILS

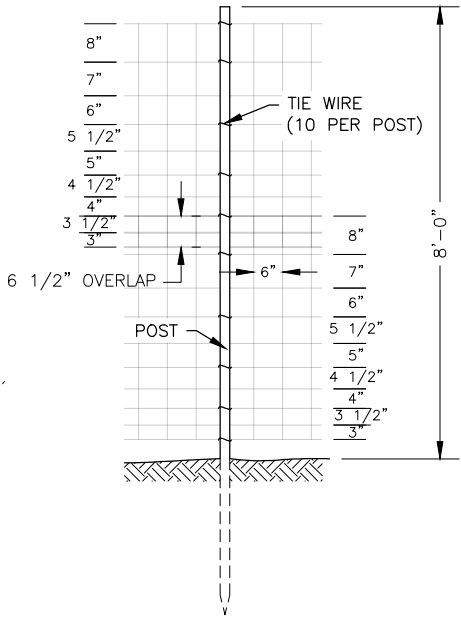
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04/09/2025
SHEET:
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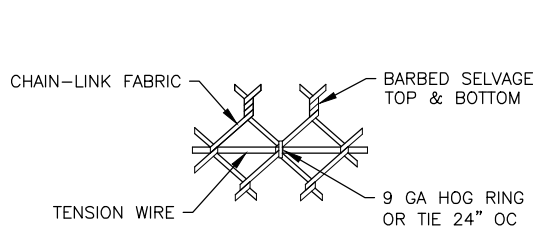
1
32
WOVEN WIRE FENCING
SCALE: NTS

NOTES:

1. USE EQUAL POLE SPACING (S). MAXIMUM POLE SPACING IS 10 FEET.
2. PULL POSTS SHALL HAVE A MAXIMUM SPACING OF 250 FEET.
3. ADDITIONAL BRACE POST OR PULL POST LOCATIONS MAY BE NECESSARY WHERE FENCING INTERSECTS OR RUNS PARALLEL WITH STREAMS, BODIES OF WATER, OR LOW GRADES IN THE FENCE LINE.
4. SECURELY FASTEN POST TOPS TO POST.
5. SECURELY FASTEN BRACE RAILS TO POSTS WITH BRACE BANDS.
6. WOVEN WIRE FABRICS SHALL BE JOINED LONGITUDINALLY WITH A CONTINUOUS 9 GAUGE GALVANIZED WIRE WOVEN NEATLY THROUGH THE MESH AND WRAPPED EVERY 24 INCHES OR ATTACHED WITH 9 GAUGE HOG RINGS SPACED AT 24 INCH INTERVALS.

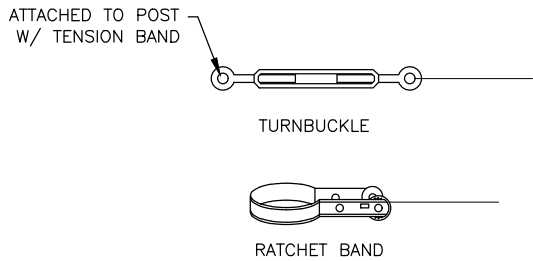


2
32
WOVEN WIRE FENCE
DETAIL
SCALE: NTS



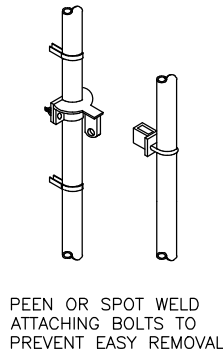
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33
FABRIC TO TENSION WIRE FASTENERS

SCALE: NTS



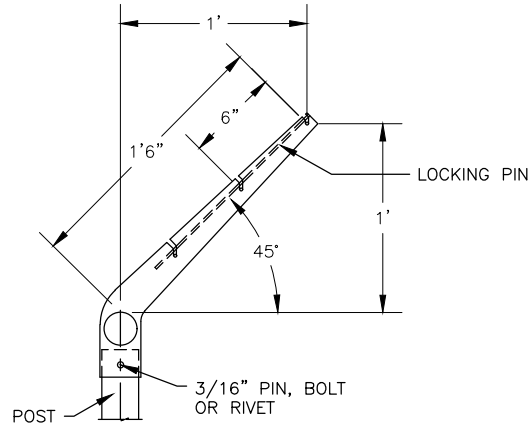
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33
TENSIONERS FOR STRANDED WIRE

SCALE: NTS



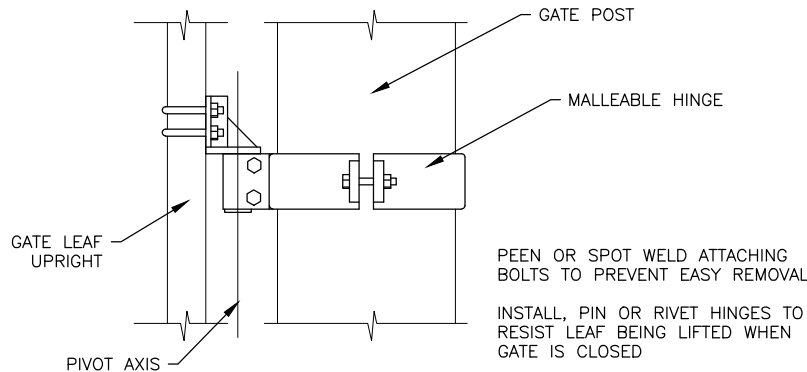
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33
ICE FREE LOCKING ASSEMBLY

SCALE: NTS



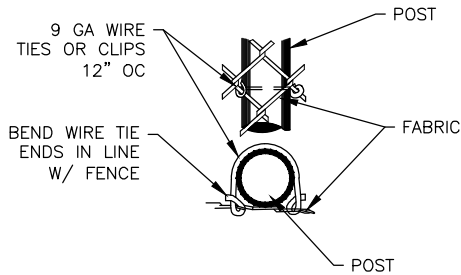
4
33
LINE POST BARBED WIRE ARM

SCALE: NTS



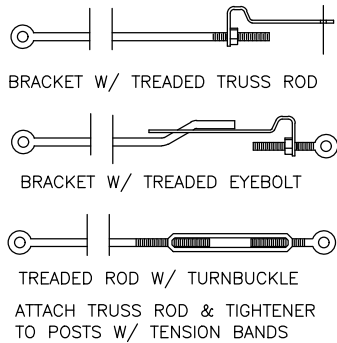
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33
GATE HINGE

SCALE: NTS



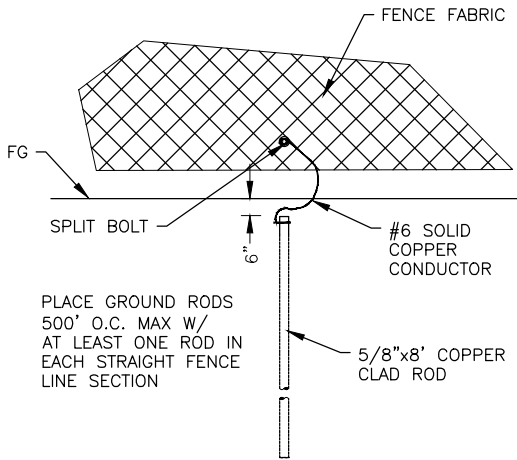
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33
FABRIC TO TUBULAR POST FASTENERS

SCALE: NTS



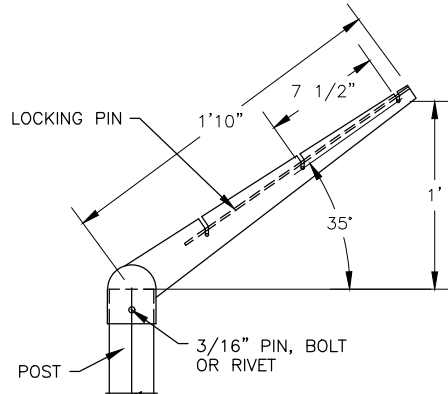
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33
TRUSS ROD W/ TIGHTENER

SCALE: NTS



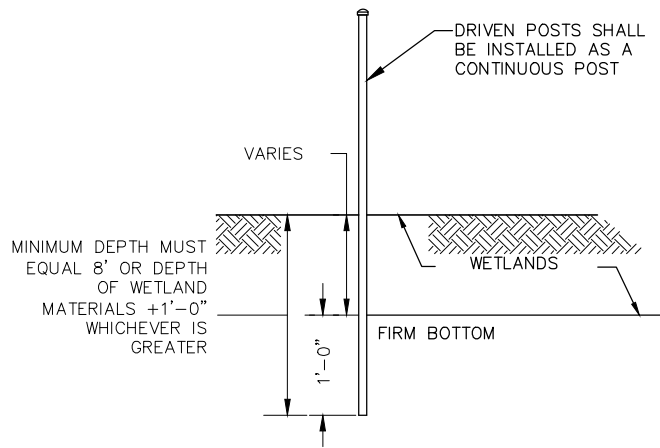
8
33
GROUND ROD

SCALE: NTS



9
33
CORNER POST BARBED WIRE ARM

SCALE: NTS



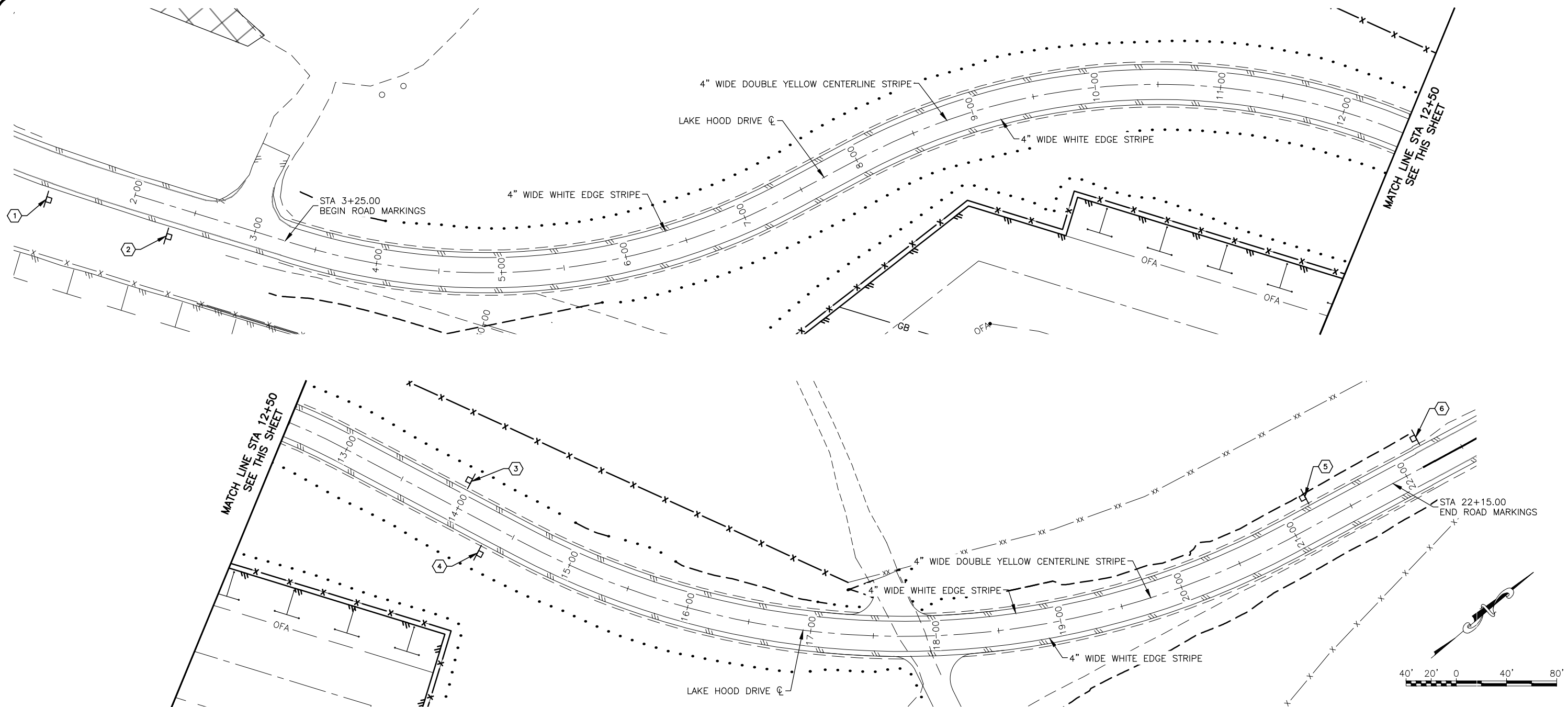
10
33
DRIVEN POST DETAIL

SCALE: NTS

NOTES:

1. USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.

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2. ALL STATION AND OFFSET LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. INSTALL ROADWAY SIGNS ON SIGN POST BASE AND FOUNDATION SHOWN ON STANDARD PLAN S-31.02. USE CONCRETE CONFORMING TO ITEM P-610 OF THE SPECIFICATIONS.

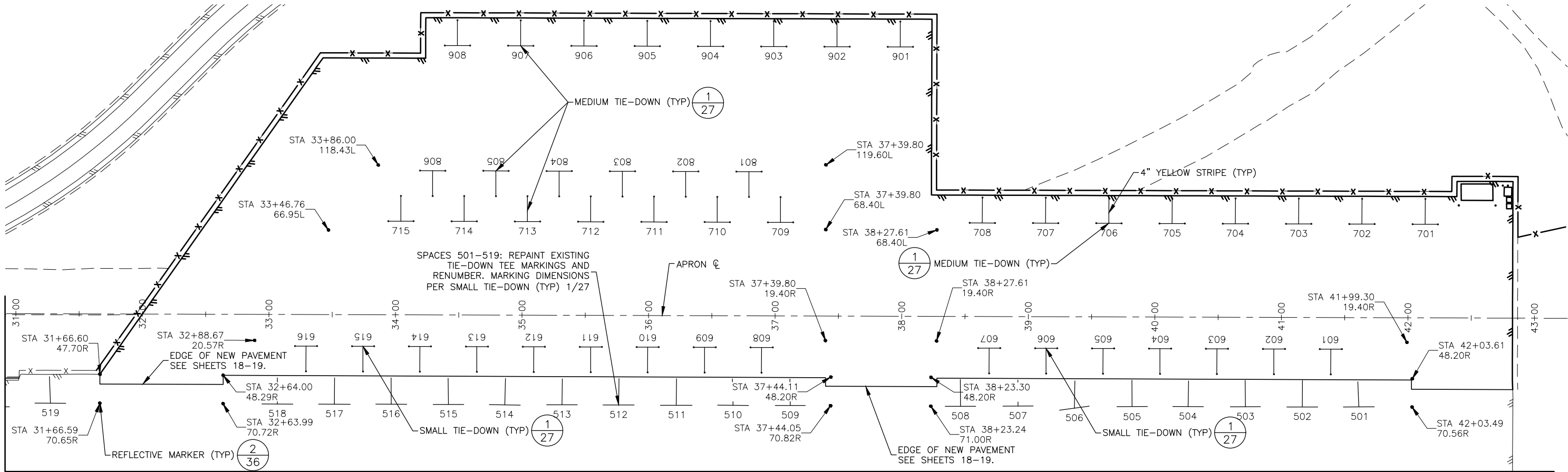
SIGN SUMMARY								
SIGN NO	TYPE	LOCATION	LEGEND	SIZE INCH	COLOR LEGEND/BACKGROUND	THICKNESS UNFRAMED INCH	AREA FT^2	POST TYPE*
①	R2-1	RD CL 01+35.39 24.00' R	SPEED LIMIT - 35	24"x30"	BLK/WHT RETROREFLECTIVE	.125"	5.00	2 ½" PT
②	W1-4L_Y	RD CL 02+35.39 24.00' R	--	36"x36"	BLACK/YELLOW	.125"	9.00	2 ½" PT
③	W1-4L_Y	RD CL 13+97.69 24.00' L	--	36"x36"	BLACK/YELLOW	.125"	9.00	2 ½" PT
④	W1-2L_Y	RD CL 14+32.70 24.00' R	--	36"x36"	BLACK/YELLOW	.125"	9.00	2 ½" PT
⑤	W1-2R_Y	RD CL 21+31.09 24.00' L	--	36"x36"	BLACK/YELLOW	.125"	9.00	2 ½" PT
⑥	R2-1	RD CL 22+31.09 24.00' L	SPEED LIMIT - 35	24"x30"	BLK/WHT RETROREFLECTIVE	.125"	5.00	2 ½" PT

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LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T-00001
MARKING AND SIGNING PLAN - ROAD

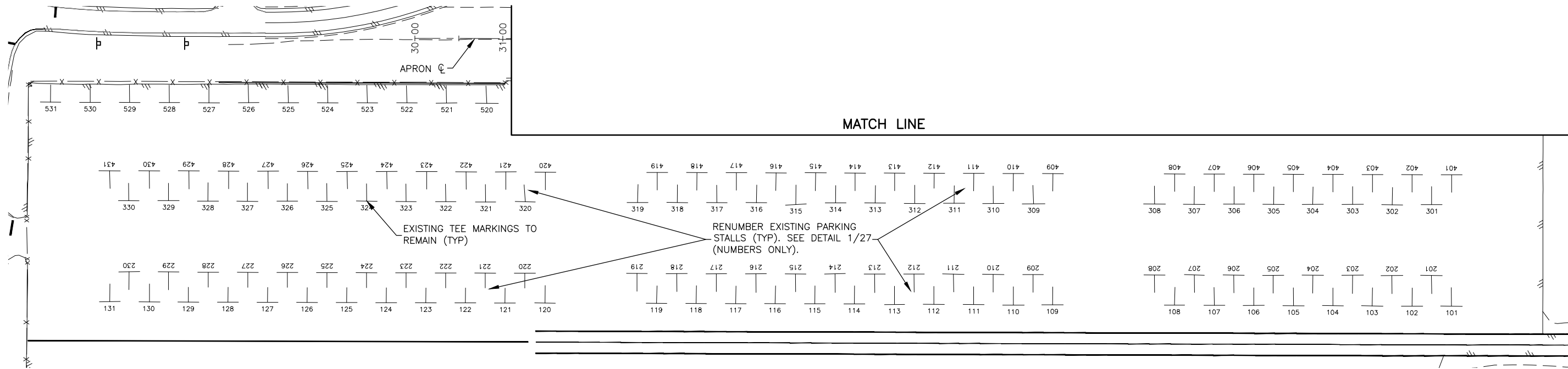
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04/09/2025

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MATCH LINE

NEW ECHO MARKING



MATCH LINE

EXISTING ECHO MARKING

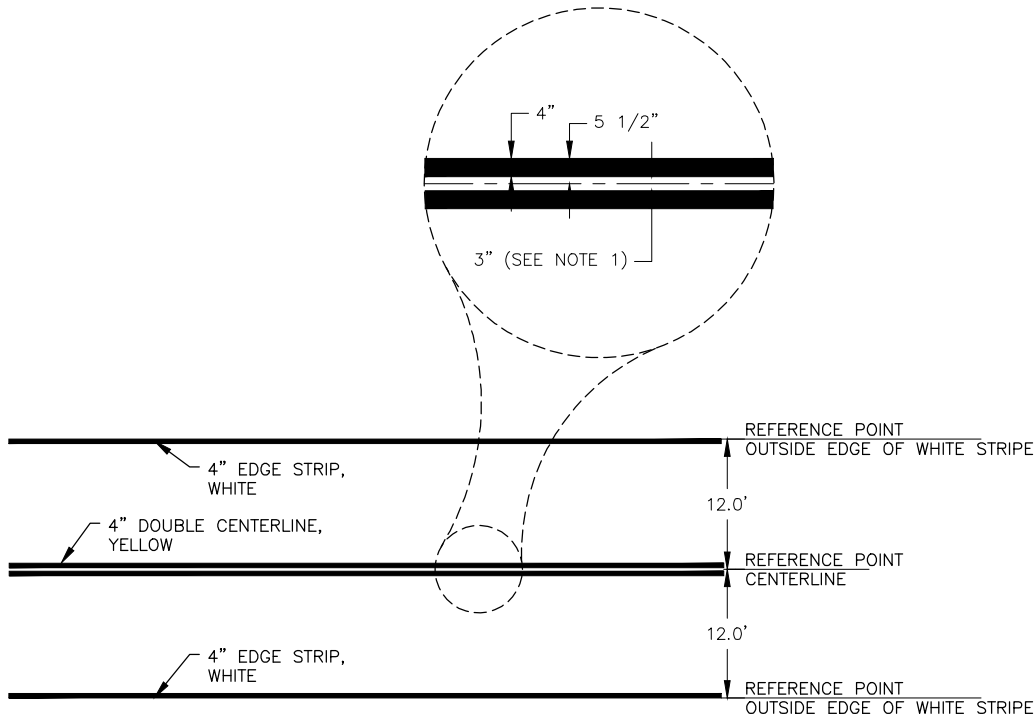


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PHONE (907) 269-0590

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
MARKING AND SIGNING PLAN -
APRON

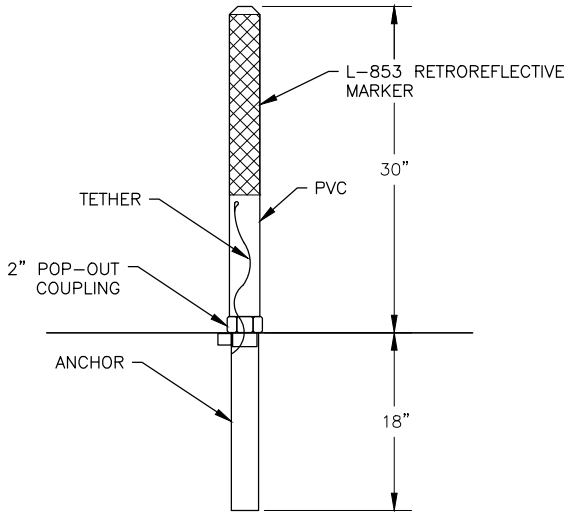
DATE:
04/09/2025
SHEET:
35 OF 38



1
36

ROAD MARKING DETAIL

SCALE: NTS

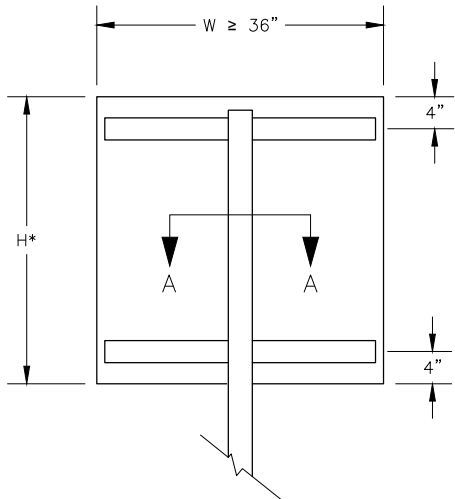


2
36

REFLECTIVE MARKER

SCALE: NTS

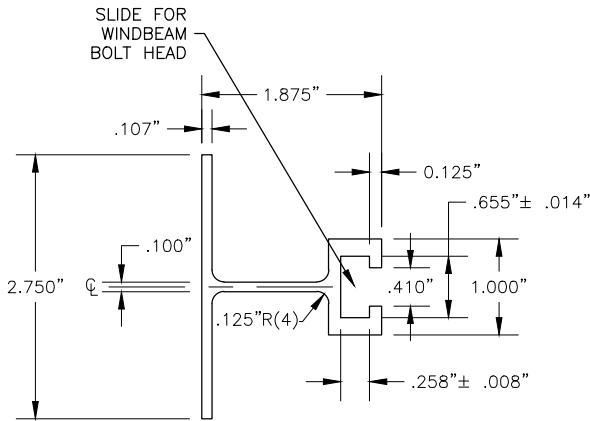
- NOTES:
- ADJUST CENTERLINE SPACING FROM 3" UP TO 5" WHERE RECESSED PAVEMENT MARKERS ARE REQUIRED.
 - FOR ALL FINAL ROADWAY MARKINGS USE INLAID METHYL METHACRYLATE PAVEMENT MARKINGS.
 - IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT THE MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.



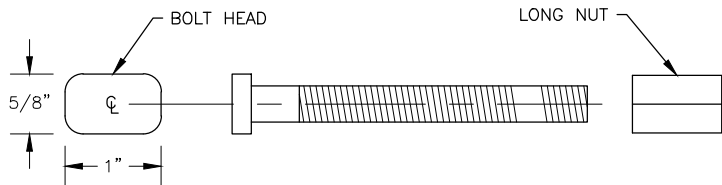
RECTANGLES AND TRAPEZOIDS

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

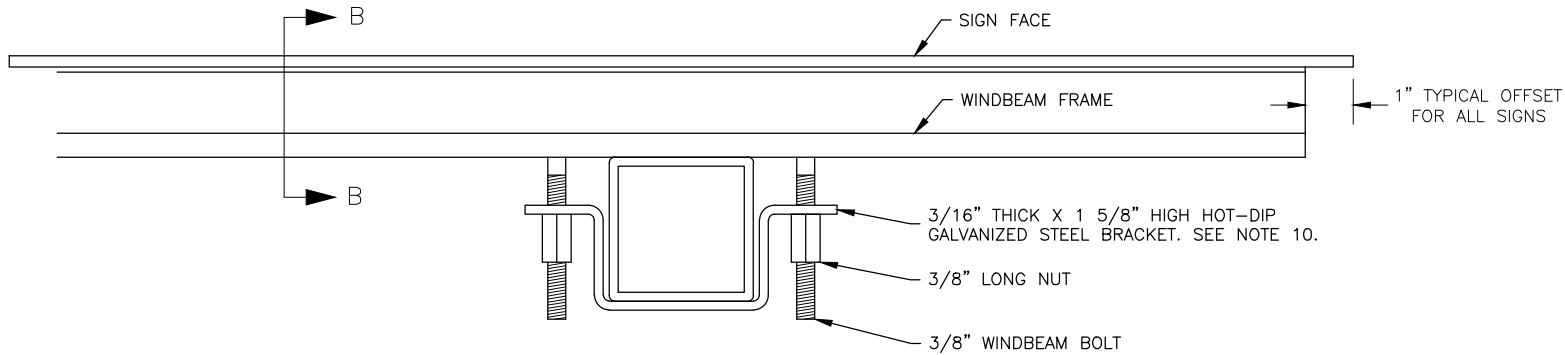
WINDBEAM LOCATIONS
FOR RECTANGLES AND
TRAPEZOIDS
ELEVATION VIEW



SECTION B – B
WINDBEAM CROSS
SECTION



3/8" WINDBEAM BOLT
AND LONG NUT



SECTION A – A TYPICAL
SIGN ATTACHMENT
DETAILS AT EACH
WINDBEAM

NOTES:

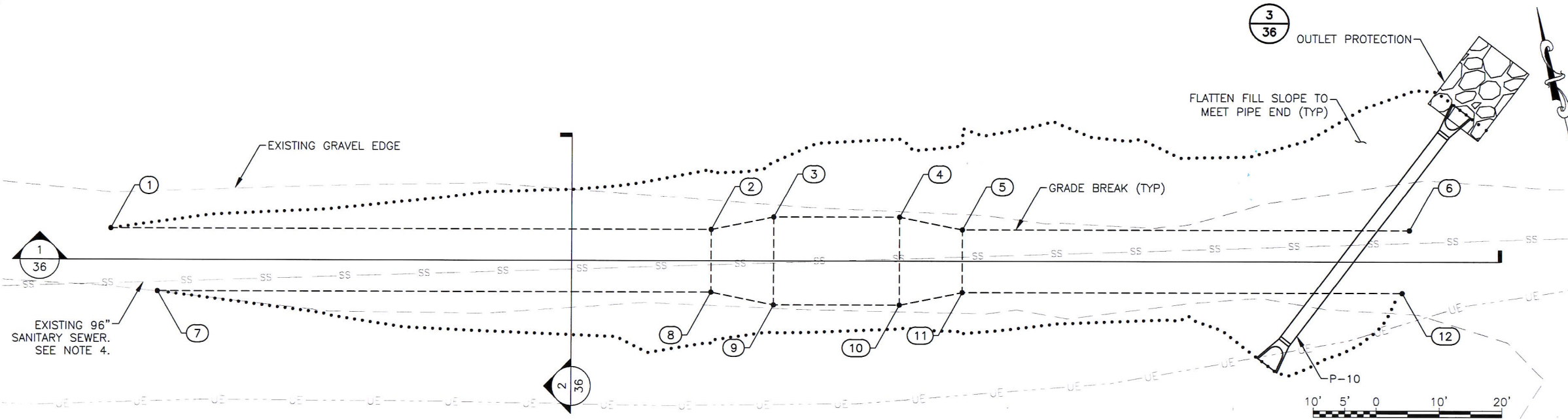
- ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
- INSTALL WINDBEAM ON SIGNS 36 INCHES WIDE AND WIDER.
- THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
- USE FRAMING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

1
37

SIGN/POST DETAILS

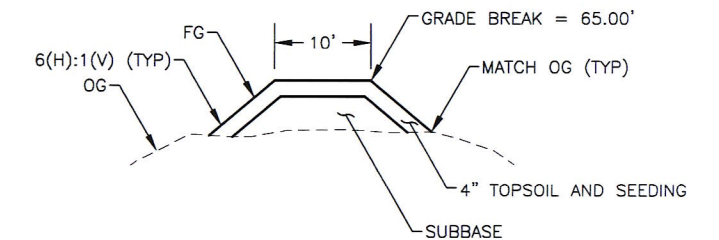
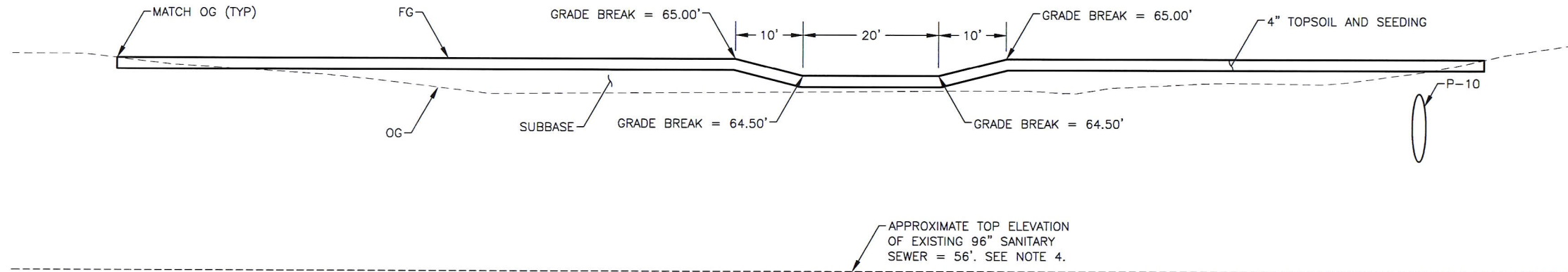
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6/14/2024, 8:45 AM
Date: 6/14/2024, 8:45 AM
Revised: 6/14/2024, 8:45 AM
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File Path and Name: D:\Projects\Lake Hood Seaplane Base\Lake Hood Seaplane Base\Lake Hood Seaplane Base.dwg



GRADING POINTS				
POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
1	19+02.81	482.13RT	65.00	MATCH OG
2	19+15.25	575.05RT	65.00	GRADE BREAK
3	19+17.47	584.34RT	64.50	GRADE BREAK
4	19+19.78	603.85RT	64.50	GRADE BREAK
5	19+19.91	614.04RT	65.00	GRADE BREAK
6	19+27.53	683.53RT	65.00	MATCH OG
7	18+98.33	491.87RT	65.00	MATCH OG
8	19+10.09	577.36RT	65.00	GRADE BREAK
9	19+10.30	587.55RT	64.50	GRADE BREAK
10	19+12.72	607.00RT	64.50	GRADE BREAK
11	19+14.90	616.28RT	65.00	GRADE BREAK
12	19+22.65	684.55RT	65.00	MATCH OG

EMBANKMENT MODIFICATION PLAN

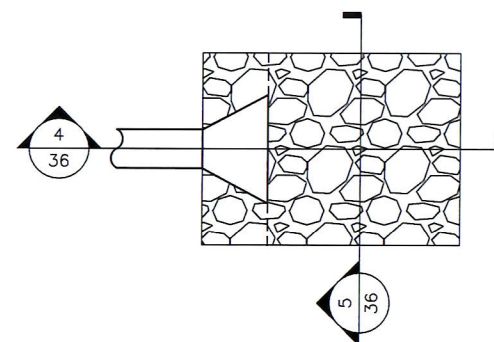


2 EMBANKMENT MODIFICATION SECTION 2

SCALE: NTS

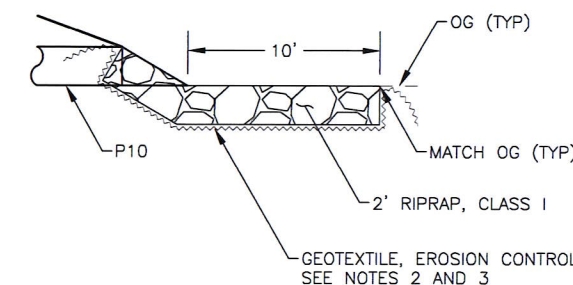
1 EMBANKMENT MODIFICATION SECTION 1

SCALE: NTS



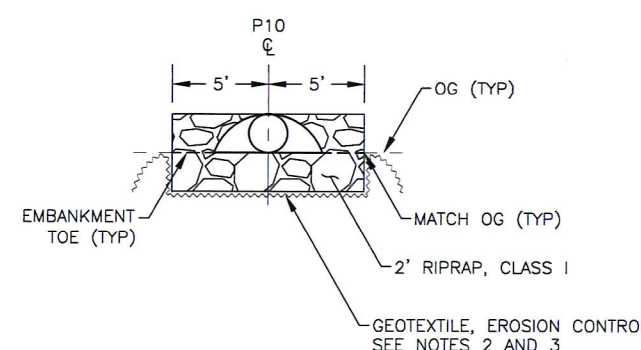
3 OUTLET PROTECTION

SCALE: NTS



4 OUTLET PROTECTION SECTION 4

SCALE: NTS



5 OUTLET PROTECTION SECTION 5

SCALE: NTS

NOTES:

- STATIONS AND OFFSETS REFERENCE THE LAKE HOOD DRIVE ALIGNMENT.
- KEY FABRIC INTO EXISTING GROUND A MINIMUM OF 3 FEET.
- FABRIC SHALL HAVE A MAXIMUM APPARENT OPENING SIZE OF 0.22 MM.
- SANITARY SEWER LOCATION IS APPROXIMATE. ACTUAL DEPTH AND LOCATION MAY VARY.



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AECL1470

BY	DATE	REVISION

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PHONE (907) 269-0590

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T00001
EMBANKMENT MODIFICATION DETAILS

DATE:
06/14/2024
SHEET:
36 OF 36

DEMOLITION NOTES:

1. REMOVE ELECTRICAL EQUIPMENT AS INDICATED ON DEMOLITION PLANS. REMOVAL INCLUDES ALL ASSOCIATED CONDUIT, CONDUCTORS, CONTROLS, DRAIN CONDUITS, FOUNDATIONS, AND CONCRETE, UNLESS OTHERWISE INDICATED. OFFER ALL REMOVED LIGHTS, PANELS, CONTROLS, AND OTHER ELECTRICAL EQUIPMENT IN SERVICEABLE CONDITION THAT ARE NOT BEING REINSTALLED TO AIRPORT MAINTENANCE. DELIVER ALL REMOVED CONDUCTORS TO A DUMPSTER PROVIDED BY AIRPORT MAINTENANCE FOR DISPOSAL. DISPOSAL OF EQUIPMENT DEEMED NON-SALVAGABLE BY AIRPORT MAINTENANCE AND REMOVED CONDUIT, SUPPORTS, CONCRETE, AND OTHER MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR. DISPOSE OF MATERIAL AT AN APPROVED SITE OFF OF AIRPORT PROPERTY IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS. DISPOSAL COSTS ARE SUBSIDIARY TO THE CONTRACT.
2. WHEN REMOVING CONDUCTORS FROM EXISTING CONDUIT TO REMAIN, INSTALL A PULL ROPE FOR FUTURE USE PER SPECIFICATION L-108.
3. CONDUITS SHOWN TO BE REMOVED THAT WILL NOT BE DISTURBED BY EXCAVATION ASSOCIATED WITH THIS PROJECT MAY BE ABANDONED IN PLACE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. REMOVE ALL CONDUCTORS FROM ABANDONED CONDUITS.
4. REMOVAL OF EXISTING POWER POSTS, LIGHTING, AND ELECTRICAL PANELS IS SUBSIDIARY TO INSTALLATION OF NEW POWER POSTS, LIGHTING, AND ELECTRICAL PANELS.
5. COORDINATE DISCONNECTION AND REMOVAL OF FLIGHT PLANNING BUILDING AND REEVE AIR BUILDING ELECTRICAL SERVICES WITH CHUGACH ELECTRIC ASSOCIATION THROUGH THE ENGINEER. TRANSFORMER WILL BE REMOVED BY THE UTILITY.

ELECTRICAL NOTES:

1. COORDINATE ALL SERVICE OUTAGES WITH THE PROJECT ENGINEER PER GCP 50 AND GCP 80. SCHEDULE WORK TO MINIMIZE QUANTITY AND DURATION OF OUTAGES UNLESS OTHERWISE COORDINATED IN ADVANCE.
2. PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR REQUIRED LOCKOUTS OR OTHER INVOLVEMENT OF AIRPORT MAINTENANCE PERSONNEL.
3. COORDINATE ALL UTILITY WORK WITH CHUGACH ELECTRIC ASSOCIATION THROUGH THE ENGINEER. TRANSFORMER REMOVAL AND REPLACEMENT WILL BE PERFORMED BY THE UTILITY.
4. ALL WORK ASSOCIATED WITH RELOCATION OF THE FLIGHT PLANNING BUILDING IS SUBSIDIARY TO ITEM P165.080.0000, INCLUDING DISCONNECTION AND DEMOLITION OF EXISTING ELECTRICAL SERVICE, NEW UNDERGROUND FEEDER AND DISCONNECT, AND RECONNECTION OF RELOCATED BUILDING TO NEW FEEDER.
5. ALL WORK ASSOCIATED WITH RELOCATION OF THE REEVE AIR BUILDING IS SUBSIDIARY TO ITEM P165.080.0000, INCLUDING DEMOLITION OF EXISTING ELECTRICAL SERVICE AND INSTALLATION OF NEW LOAD CENTER.
6. UNLESS OTHERWISE INDICATED, LIGHTING CIRCUITS SHALL BE 2#6 (APRON LT), 2#6 (OBSTR LT), AND 1#6 GRD IN 1-1/2" CONDUIT.

SHEET NOTES: (X)

1. REMOVE LIGHT POLE, LIGHT FIXTURES, CAMERAS AND ASSOCIATED CONDUIT AND ENCLOSURES (WHERE PRESENT), AND UNDERGROUND CIRCUITS. STORE POLE AND CAMERA-RELATED EQUIPMENT FOR REINSTALLATION. CUT OFF PILE FOUNDATION 24" BELOW GRADE AND ABANDON IN PLACE.
2. REMOVE METERBASE, PANELBOARD, APRON LIGHTING CONTACTOR, OBSTRUCTION LIGHT CONTACTOR, AND ASSOCIATED SUPPORT STRUCTURE AND FOUNDATION. STORE CONTACTORS FOR REINSTALLATION.
3. INSTALL EXISTING LIGHT POLE, NEW LIGHT FIXTURES, AND EXISTING CAMERAS AND ASSOCIATED CONDUIT AND ENCLOSURES (WHERE PRESENT) ON NEW PILE FOUNDATION.
4. INSTALL NEW MANHOLE TO CAPTURE EXISTING CIRCUITS. SPLICE CIRCUITS USING WATERTIGHT EPOXY SPLICE KITS AND EXTEND TO NEW PANEL USING 3#1/0 & 1#4 GRD IN 1-1/2" FOR EACH CIRCUIT, TYP OF 7.
5. INSTALL NEW JUNCTION BOX TO CAPTURE EXISTING SPARE CONDUIT. EXTEND TO NEW PANEL.
6. SPLICE CONDUIT STRAIGHT THROUGH WHERE POST WAS REMOVED. INSTALL 3#1/0 & 1#4 GRD BETWEEN ADJACENT EXISTING POWER POSTS.
7. FINAL LOCATION OF NEW LOAD CENTER TO BE DETERMINED BY THE ENGINEER BASED ON FIELD CONDITIONS, BUILDING LOCATION, AND UTILITY CONNECTION.

ELECTRICAL PLAN LEGEND

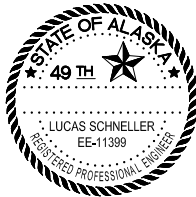
EXISTING TO REMAIN (DEMO/NEW PLANS)	DEMOLITION (DEMO PLANS)	NEW WORK (NEW PLANS)		ATCT	AIR TRAFFIC CONTROL TOWER
---	---	---	ELECTRICAL CONDUIT, HDPE UNLESS OTHERWISE NOTED	BC	BARE COPPER
---	---	---	GROUND ROD, 3/4"x10' TYPICAL	BOP	BEGINNING OF PROJECT
---	---	---	ELECTRICAL MANHOLE	C	CONDUIT
---	---	---	COMMUNICATIONS MANHOLE	CEA	CHUGACH ELECTRIC ASSOCIATION
---	---	---	ELECTRICAL TYPE II JUNCTION BOX	Ø DIA	DIAMETER
---	---	---	COMMUNICATIONS TYPE II JUNCTION BOX	EOP	END OF PROJECT
---	---	---	PRIMARY UNDERGROUND ELECTRICAL LINE	EMH	ELECTRICAL MANHOLE
---	---	---	UNDERGROUND COMMUNICATIONS LINE	EMT	ELECTRICAL METALLIC TUBING
---	---	---	LIGHT POLE WITH MULTIPLE FLOOD LIGHT FIXTURES	FAA	FEDERAL AVIATION ADMINISTRATION
---	---	---	PAD-MOUNT TRANSFORMER	GRD	GROUND
---	---	---	POWER POST	HDPE	HIGH DENSITY POLYETHYLENE
---	---	---	CCTV CAMERA	HMA	HOT MIX ASPHALT
---	---	---	DISCONNECT SWITCH	LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
---	---	---	LOAD CENTER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
				PPE	PERSONAL PROTECTIVE EQUIPMENT
				PVC	POLYVINYL CHLORIDE
				RMC	RIGID METALLIC CONDUIT (GALVANIZED STEEL)
				SS	STAINLESS STEEL
				TP	TEST POINT
				TYP	TYPICAL
				UON	UNLESS OTHERWISE NOTED
				(X)	REFERENCE TO SHEET NOTE

LIGHT FIXTURE SCHEDULE

ID	DESCRIPTION	FIXTURE			COLOR TEMP	MOUNTING	MTG HEIGHT	MANUFACTURER/CATALOG NO. (OR APPROVED EQUAL)	NOTES
		VOLTAGE	WATTS	LUMENS					
A	FLOOD LIGHT	208	208	30000	4000K	POLE	30'-0"	CREE OSQ-L-B-55-SV, OSQ-ML-B-AA	1
B	OBSTRUCTION LIGHT	120	6	-	RED	POLE	30'-0"	DIALIGHT RTOCR07001	

LIGHT FIXTURE SCHEDULE NOTES:

1. WHERE NEW POLES ARE REQUIRED, PROVIDE ROUND TAPERED STEEL POLE, GALVANIZED FINISH, WITH POLE-TOP TENON AND INTERNAL VIBRATION DAMPER. PROVIDE 2-POSITION BULLHORN ARM, GALVANIZED FINISH, WITH THREADED CENTER HUB AT TENON MOUNT FOR OBSTRUCTION LIGHT. SEE DETAIL 3/E4.



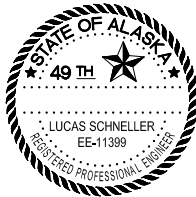
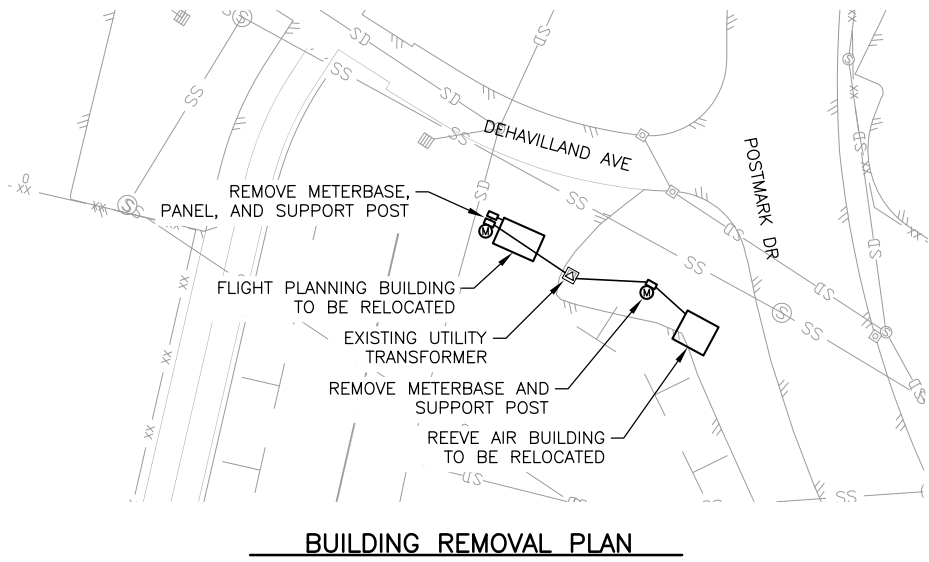
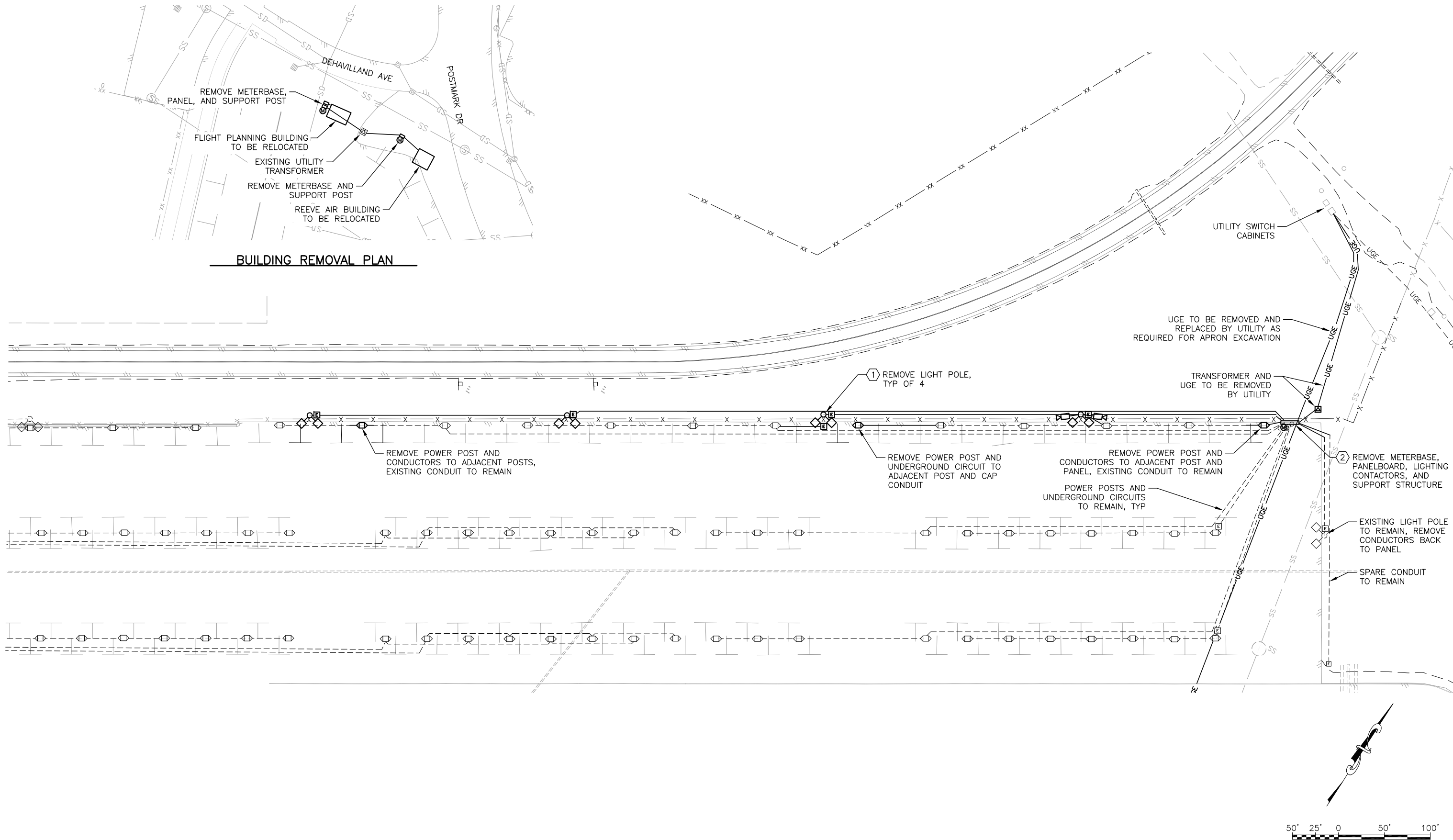
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725 EAST FIREWEED LANE, SUITE 200
ANCHORAGE, AK 99503-2245
(907) 276-4245
AUTHORIZATION TO PRACTICE
#AECC1277

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PHONE (907) 269-0590

TED STEVENS ANCHORAGE INT'L AIRPORT
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
69DCK-22-T-00001
ELECTRICAL LEGEND AND NOTES

DATE:
6/12/2024
SHEET:
E1 OF E8



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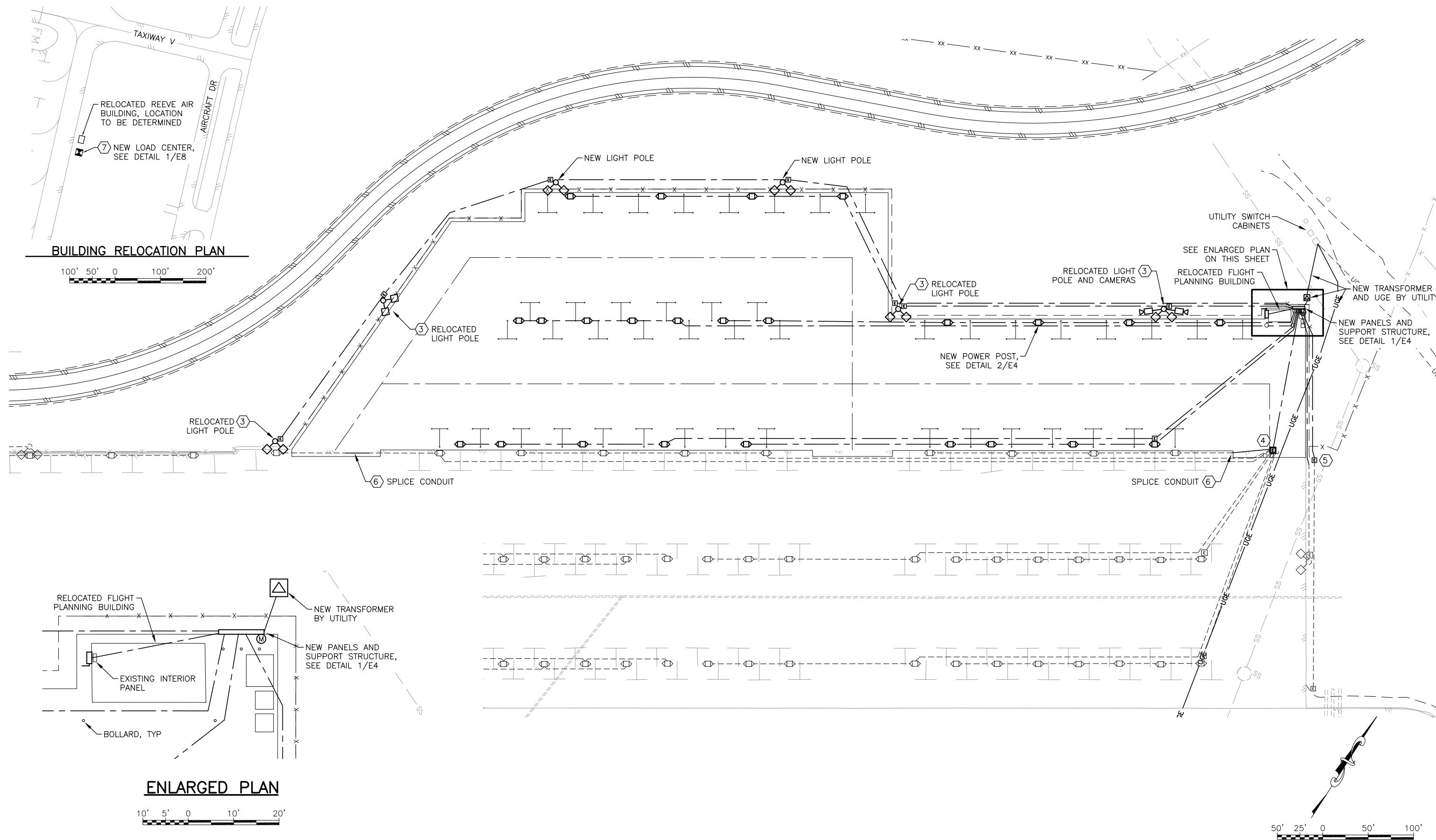
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TED STEVENS ANCHORAGE INT'L AIRPORT
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T-00001
ELECTRICAL DEMOLITION PLAN

DATE: 6/12/2024
SHEET: E2 OF E8

Designed By: LPS
Drawn By: LCA/LPS
Checked By: CLR

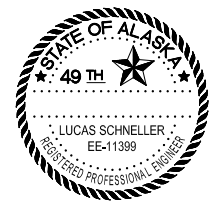
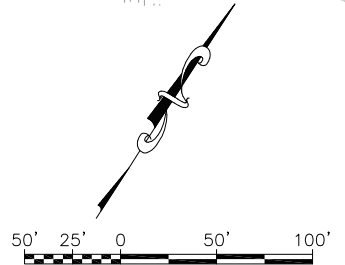
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BUILDING RELOCATION PLAN



ENLARGED PLAN



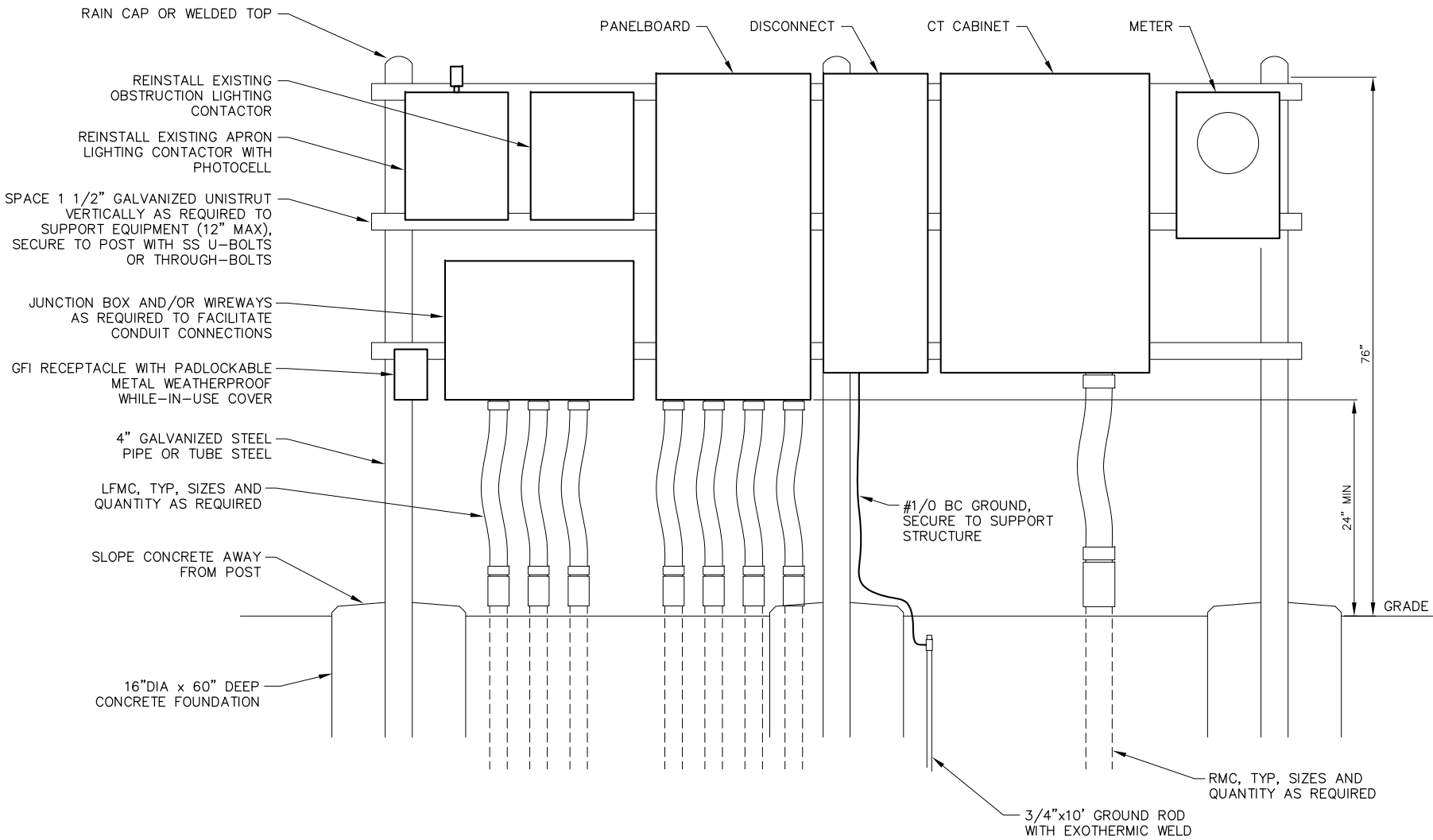
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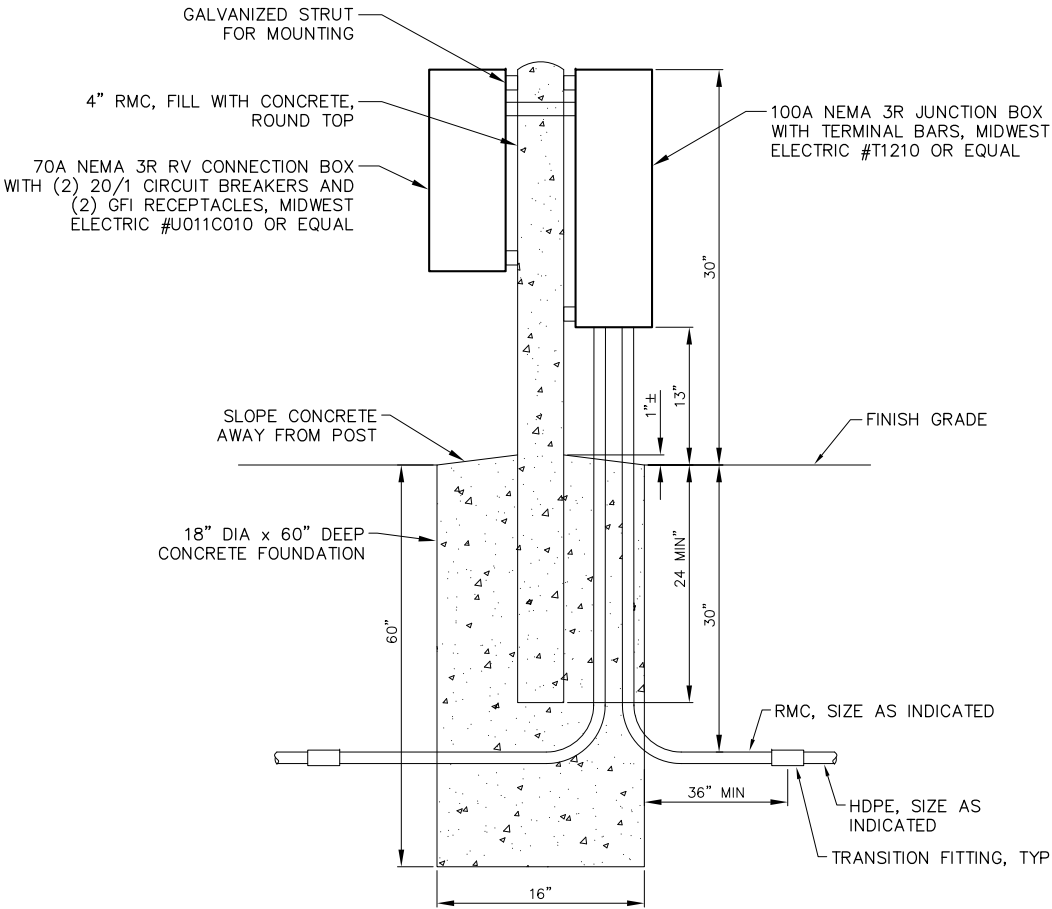
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ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T-00001
ELECTRICAL NEW WORK PLAN

DATE: 6/12/2024
SHEET: E3 OF E8

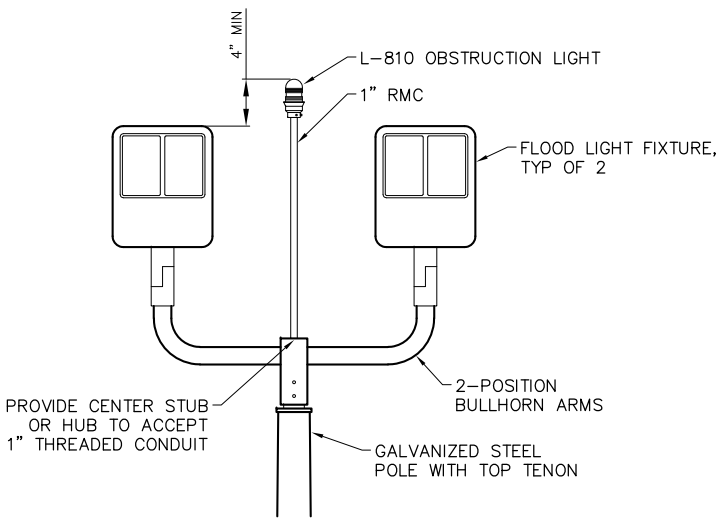


- DETAIL NOTES:**
1. ADJUST WIDTH AS REQUIRED FOR EQUIPMENT INSTALLED, 24" MINIMUM, 72" MAXIMUM SPAN WITHOUT ADDITIONAL SUPPORT.
 2. EQUIPMENT ARRANGEMENT AND CONNECTIONS ARE SUGGESTED. CONTRACTOR SHALL DETERMINE FINAL MOUNTING AND ARRANGEMENT.
 3. VERIFY AND ASBUILT APRON LIGHTING AND OBSTRUCTION LIGHTING CONTACTOR WIRING PRIOR TO REMOVAL. RECONNECT REINSTALLED CONTACTORS TO OPERATE IN SAME MANNER AS EXISTING.

1 PANEL STRUCTURE DETAIL (LOAD CENTER TYPE 2)
SCALE: N.T.S.

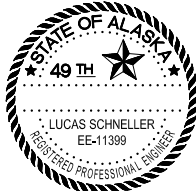


2 POWER POST DETAIL
SCALE: N.T.S.



- DETAIL NOTES:**
1. SEE LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
 2. AT RELOCATED POLES, REMOVE AND REPLACE EXISTING LIGHT FIXTURES, OBSTRUCTION LIGHTS, AND INTERNAL CONDUCTORS. REPLACEMENT LIGHT FIXTURES AND OBSTRUCTION LIGHTS SHALL BE PER THE LIGHT FIXTURE SCHEDULE.
 3. AT RELOCATED POLE WITH CCTV CAMERAS, MAINTAIN AND PROTECT OR REMOVE AND REINSTALL CAMERAS AND ASSOCIATED RACEWAYS, CABLES, BOXES, AND CONTROL PANEL TO MATCH EXISTING CONFIGURATION.

3 APRON FLOOD LIGHT DETAIL
SCALE: N.T.S.



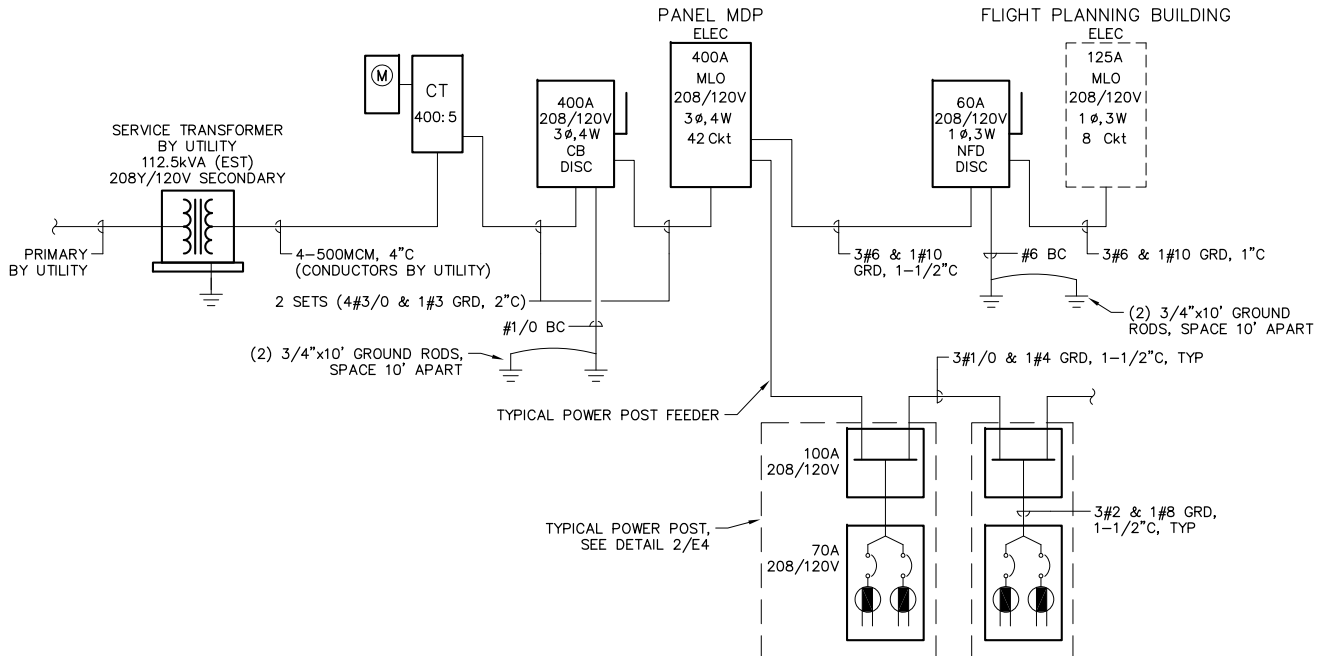
STANTEC CONSULTING SERVICES INC. 725 EAST FIREWEED LANE, SUITE 200 ANCHORAGE, AK 99503-2245 (907) 276-4245 AUTHORIZATION TO PRACTICE #AECC1277			BY	DATE	REVISION

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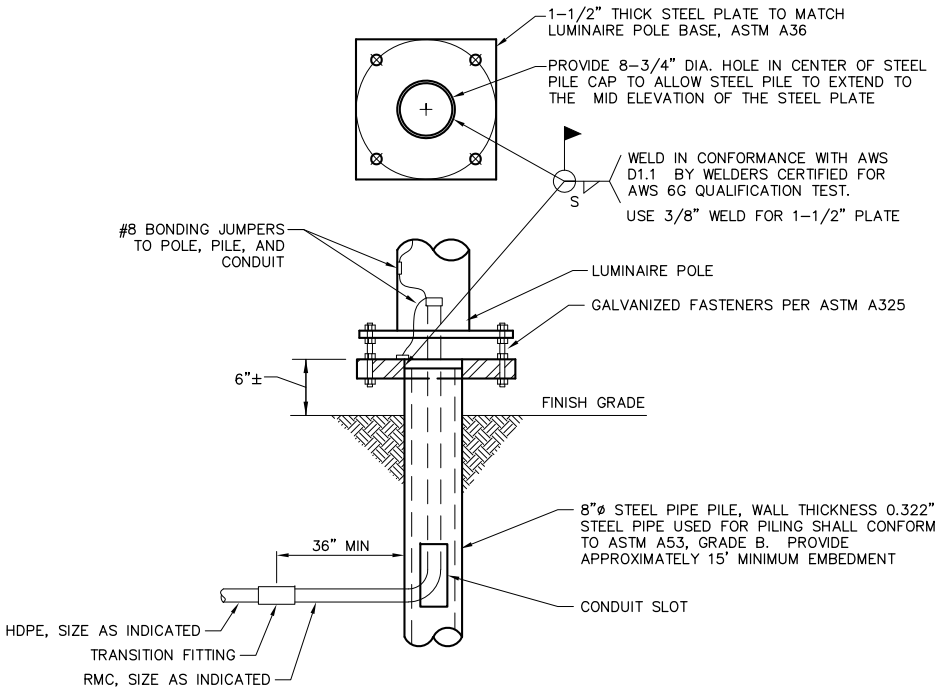
TED STEVENS ANCHORAGE INT'L AIRPORT
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T-00001
ELECTRICAL DETAILS

DATE: 6/12/2024
SHEET: E4 OF E8

PANEL MDP											
CKT	LOAD	BRANCH		CONNECTED KVA			BRANCH		LOAD	CKT	
		BKR	VA	A	B	C	VA	BKR			
1	EXISTING OUTLETS (2)	100/2	2400	7.2			4800	100/2	EXISTING OUTLETS (4)	2	
3			2400		7.2		4800			4	
5	EXISTING OUTLETS (4)	100/2	4800			9.6	4800	70/2	EXISTING OUTLETS (4)	6	
7			4800	9.6			4800			8	
9	EXISTING OUTLETS (7)	100/2	8400		13.2		4800	70/2	EXISTING OUTLETS (4)	10	
11			8400			13.2	4800			12	
13	EXISTING OUTLETS (7)	100/2	8400	9.4			1000	20/2	APRON LIGHTS	14	
15			8400		9.4		1000			16	
17	APRON LIGHTS	20/2	1500			2.0	500	20/1	OBSTRUCTION LIGHTS	18	
19			1500	1.6			100	20/1	CONTROL	20	
21	NEW OUTLETS (4)	100/2	4800		10.8		6000	100/2	NEW OUTLETS (4)	22	
23			4800			10.8	6000			24	
25	NEW OUTLETS (5)	100/2	6000	10.8			4800	100/2	NEW OUTLETS (5)	26	
27			6000		10.8		4800			28	
29	NEW OUTLETS (6)	100/2	7200			7.4	180	20/1	RECEPTACLE	30	
31			7200	7.2						32	
33	FLIGHT PLANNING BUILDING	50/2	3600		3.6					34	
35			3600			3.6				36	
37				0.0						38	
39					0.0					40	
41						0.0				42	
CONNECTED LOAD				147.4 KVA	45.8	55.0	46.6	PANEL SPECIFICATIONS			
				409 AMPS	382	458	388	MAINS RATING AMPS – 400			
NEC DEMAND				121.9 KVA				MAIN CIRCUIT BREAKER AMPERES – MLO			
				339 AMPS				CAPACITY ONE–POLE CIRCUITS – 42			
PANEL NOTES							SYSTEM VOLTAGE – 208Y/120				
1. NEMA 3R ENCLOSURE.							PHASE, NO. OF WIRES – 3 PH, 4 W				
							AIC RATING – 22,000				
							MOUNTING – POST				
							LOCATION – APRON				



1
E5
ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.



2
E5
LIGHT POLE BASE DETAIL
SCALE: N.T.S.



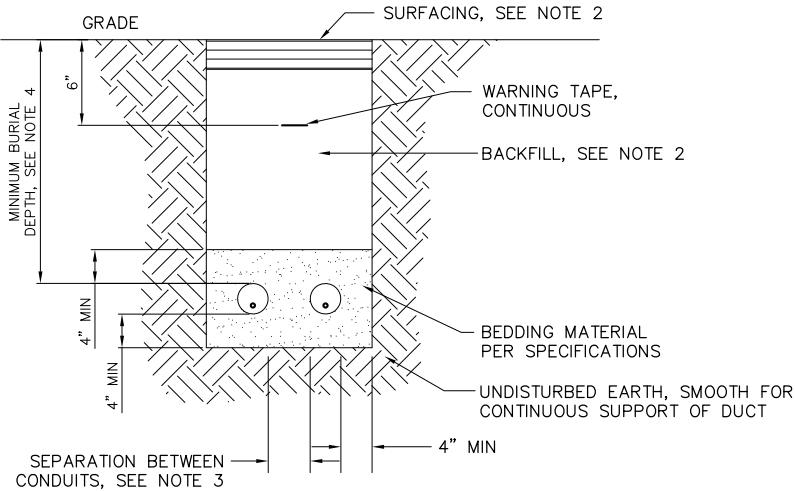
STANTEC CONSULTING SERVICES INC.
725 EAST FIREWEED LANE, SUITE 200
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(907) 276-4245
AUTHORIZATION TO PRACTICE
#AECC1277

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
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TED STEVENS ANCHORAGE INT'L AIRPORT
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T-00001
ELECTRICAL DETAILS

DATE: 6/12/2024
SHEET: E5 OF E8



NOTES:

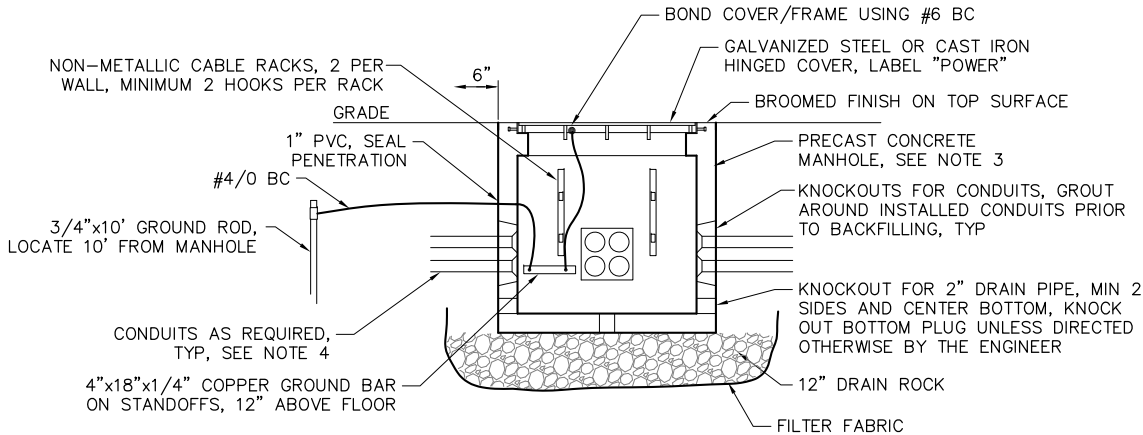
- WIDTH OF TRENCH AND NUMBER OF CONDUITS PER TRENCH WILL VARY (2 SHOWN).
- IN AREAS OF NEW CONSTRUCTION, SEE CIVIL FOR SURFACING AND BACKFILL. IN EXISTING AREAS, MATCH EXISTING SURFACING AND BACKFILL.
- USE COMMERCIALLY MANUFACTURED DUCT SPACERS IN COMMON DUCTBANKS WITH PARALLEL CONDUITS SPACED EVERY 5' O.C. TO MAINTAIN SEPARATION. SEPARATION BETWEEN CONDUITS MUST BE AS FOLLOWS:
 - CONDUITS OF SAME TYPE (POWER OR SIGNAL) UNDER SAME OWNERSHIP – 2"
 - PRIMARY POWER AND ANY OTHER CONDUIT – 18" MIN
 - TELECOM UTILITY AND ANY OTHER CONDUIT – 18" MIN
- MINIMUM BURIAL DEPTH MUST BE AS FOLLOWS, UNLESS OTHERWISE INDICATED:
 - LIGHTING AND POWER CIRCUITS – 24"

1

E6

TYPICAL CONDUIT TRENCH DETAIL

SCALE: N.T.S.



NOTES:

- PRECAST MANHOLE, LID, FRAME, AND COVER MUST BE RATED FOR WHEEL LOADING BASED ON LOCATION. CONCRETE TOP SECTION WITH COVER MAY BE OVERSIZED IF REQUIRED TO MEET LOADING REQUIREMENTS.

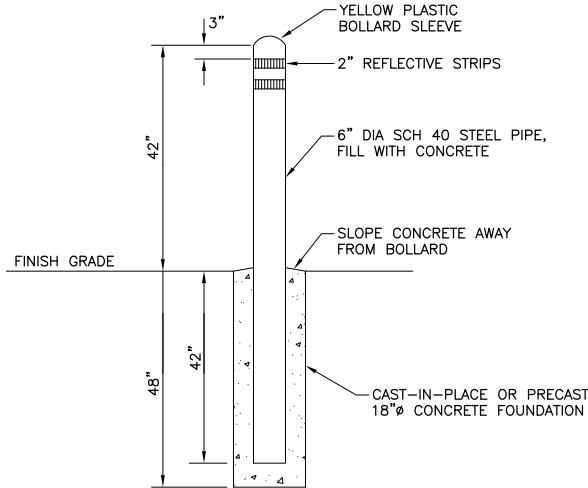
AIRCRAFT AREA – 100,000 LB. LOAD
- PROVIDE CAST IRON HINGED COVERS WITH SPRING ASSIST MECHANISM.
- MANHOLES MUST BE 4'x4'x4' INSIDE DIMENSIONS. VERTICAL DIMENSION MUST BE MEASURED FROM SURFACE GRADE TO INTERIOR FLOOR. MANHOLE COVERS MUST BE 36"x36" MINIMUM.
- EXTEND METALLIC CONDUIT 2" INTO MANHOLE AND TERMINATE WITH AN INSULATED GROUNDING BUSHING BONDED TO THE GROUND BAR WITH #6 BC. TERMINATE NON-METALLIC CONDUIT AT TERMINATION FITTINGS CAST INTO THE MANHOLE WALL OR EXTEND 2" INTO MANHOLE AND REAM ENDS TO PREVENT CONDUCTOR INSULATION DAMAGE.
- ALL GROUNDING CONNECTIONS INSIDE THE MANHOLE SHALL BE MADE USING 2-HOLE TIN-PLATED COPPER COMPRESSION LUGS CONCENTRICALLY CRIMPED. HARDWARE SHALL BE STAINLESS STEEL WITH BELLEVILLE SPRING WASHERS ON ALL BOLTED CONNECTIONS. BURIED GROUND CONNECTIONS SHALL BE EXOTHERMIC WELDS. XHHW-2 GROUNDING CONDUCTORS SHALL HAVE GREEN INSULATION.

2

E6

ELECTRICAL MANHOLE DETAIL

SCALE: N.T.S.



3

E6

BOLLARD DETAIL

SCALE: N.T.S.



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ELECTRICAL DETAILS

DATE:
6/12/2024
SHEET:
E6 OF E8

!

WARNING

ARC FLASH AND SHOCK HAZARD PRESENT

APPROPRIATE PPE REQUIRED

Arc Flash Boundary12.6ft

Incident Energy in cal/cm²36.0

Working Distance18in

Shock Hazard Exposure240VAC

Insulating Gloves Class00

Shock HazardWHEN COVER IS REMOVED

Level4

Minimum PPE Requirements

ARC-RATED LONG-SLEEVE SHIRT AND PANTS, ARC-RATED COVERALL, ARC-RATED ARC FLASH SUIT JACKET/PANTS (AS REQUIRED) ARC-RATED FLASH SUIT HOOD ARC-RATED GLOVES ARC-RATED JACKET, PARKA, RAINWEAR, OR HARD HAT LINER (AS NEEDED) HARD HAT SAFETY GLASSES OR GOGGLES HEARING PROTECTION (EAR CANAL INSERTS) LEATHER FOOTWEAR

Calculated available fault current:16,377 A

Limited Approach Boundary3.5ft

Restricted Approach Boundary1ft

MAIN DISCONNECT

APRON POWER DISTRIBUTION

CALCULATED 04 OCT 2023

!

WARNING

ARC FLASH AND SHOCK HAZARD PRESENT

APPROPRIATE PPE REQUIRED

Arc Flash Boundary5.6ft

Incident Energy in cal/cm²9.74

Working Distance18in

Shock Hazard Exposure240VAC

Insulating Gloves Class00

Shock HazardWHEN COVER IS REMOVED

Level3

Minimum PPE Requirements

ARC-RATED LONG-SLEEVE SHIRT AND PANTS OR ARC-RATED COVERALL ARC-RATED FLASH SUIT HOOD OR ARC-RATED FACE SHIELD AND ARC-RATED BALACLAVA ARC-RATED JACKET, PARKA, RAINWEAR, OR HARD HAT LINER (AS NEEDED) HARD HAT SAFETY GLASSES OR GOGGLES HEARING PROTECTION (EAR CANAL INSERTS) HEAVY-DUTY LEATHER GLOVES LEATHER FOOTWEAR

Calculated available fault current:4649 A

Limited Approach Boundary3.5ft

Restricted Approach Boundary1ft

LOAD CENTER (LINE SIDE)

REEVE BUILDING LOAD CENTER

CALCULATED 05 JUNE 2024

!

WARNING

ARC FLASH AND SHOCK HAZARD PRESENT

APPROPRIATE PPE REQUIRED

Arc Flash Boundary0.7ft

Incident Energy in cal/cm²0.30

Working Distance18in

Shock Hazard Exposure240VAC

Insulating Gloves Class00

Shock HazardWHEN COVER IS REMOVED

Level1

Minimum PPE Requirements

ARC-RATED LONG-SLEEVE SHIRT AND PANTS OR ARC-RATED COVERALL ARC-RATED FLASH SUIT HOOD OR ARC-RATED FACE SHIELD ARC-RATED JACKET, PARKA, RAINWEAR, OR HARD HAT LINER (AS NEEDED) HARD HAT SAFETY GLASSES OR GOGGLES HEARING PROTECTION (EAR CANAL INSERTS) HEAVY-DUTY LEATHER GLOVES LEATHER FOOTWEAR

Calculated available fault current:16,126 A

Limited Approach Boundary3.5ft

Restricted Approach Boundary1ft

PANEL MDP

APRON POWER DISTRIBUTION

CALCULATED 04 OCT 2023

4"

6"

FLAG LEGEND COLOR, BLACK

FLAG BACKGROUND COLOR, HAZARD ORANGE

WATERMARK IS OPTIONAL. WATERMARK COLOR, GRAY

SEE NOTE 1

SEE NOTE 2

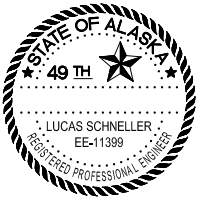
MAIN BACKGROUND COLOR, WHITE

STATIC LEGEND COLOR, BLACK

FILL CALCULATION VALUES AND NOTES WITH BOLD TEXT. VALUE AND NOTE LEGEND COLOR, BLACK

- NOTES:
1. APPLICABLE STATE OF ALASKA DOT&PF ELECTRICAL EQUIPMENT MUST BE LABELED WITH DOT&PF-DEFINED SITE-SPECIFIC PPE LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(c). THE LEVELS ARE: LEVEL 1 (0 TO 4 CAL/CM²), 2 (4.1 TO 8.0 CAL/CM²), 3 (8.1 TO 25.0 CAL/CM²), 4 (25.1 TO 39.9 CAL/CM²), OR WP (WORK PROHIBITED, FOR EQUIPMENT IN WHICH THE CALCULATED ARC FLASH INCIDENT ENERGY IS ≥ 40 CAL/CM²).
 2. MINIMUM PPE REQUIREMENTS FOR EACH PPE LEVEL DESCRIBED IN NOTE 1 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. APPLY WEATHERPROOF SELF-ADHESIVE LABELS TO INTERIOR DEAD FRONT OF EQUIPMENT INDICATED.
 4. MAIN DISCONNECT ELECTRICAL SERVICE IS SERVED FROM CEA TRANSFORMER. CALCULATIONS ARE BASED ON A 112.5KVA TRANSFORMER WITH AN IMPEDANCE OF 1.6%.
 5. LOAD CENTER ELECTRICAL SERVICE IS SERVED FROM CEA TRANSFORMER. CALCULATIONS ARE BASED ON A 15KVA TRANSFORMER WITH AN IMPEDANCE OF 1.2%.

1
E7 ARC FLASH LABELS
NTS



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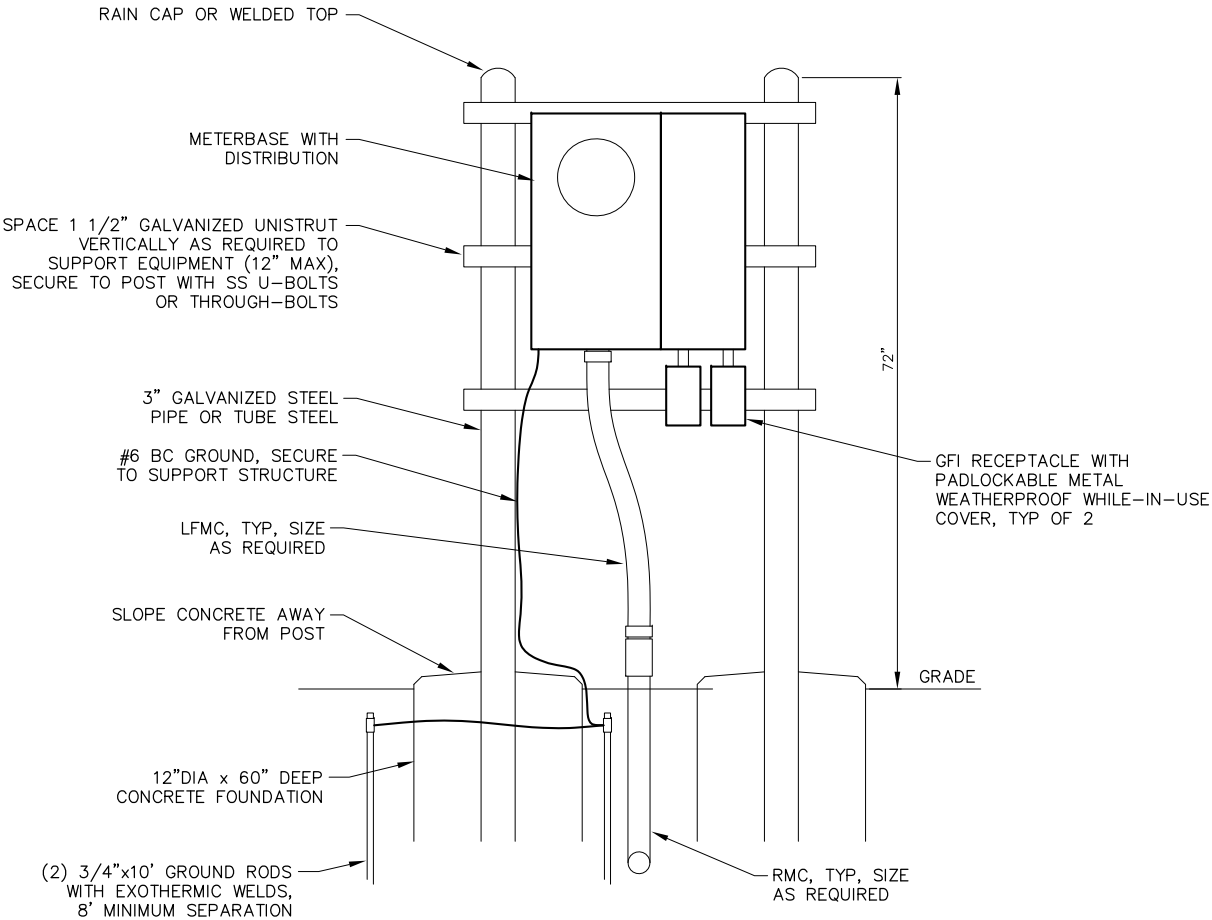
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6/12/2024
SHEET:
E7 OF E8

NEW LOAD CENTER										
CKT	LOAD	BRANCH		CONN KVA		BRANCH		LOAD		CKT
		BKR	VA	A	B	VA	BKR			
1	GFI RECEPTACLE	20/1	1200	1.2			20/1	SPARE		2
3	GFI RECEPTACLE	20/1	1200		1.2		20/1	SPARE		4
5				0.0						6
7					0.0					8
9				0.0						10
11					0.0					12
CONNECTED LOAD		2.4 KVA		1.2	1.2	PANEL SPECIFICATIONS MAINS RATING AMPS – 100 MAIN CIRCUIT BREAKER AMPERES – 100 CAPACITY ONE-POLE CIRCUITS – 12 SYSTEM VOLTAGE – 240/120 PHASE, NO. OF WIRES – 1 PH, 3 W AIC RATING – 10,000 LOAD CENTER – TYPE 2				
		10 AMPS		10	10					
NEC DEMAND		2.4 KVA								
		10 AMPS								
PANEL NOTES										

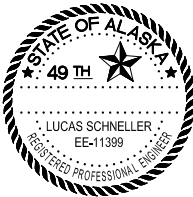


- DETAIL NOTES:
1. ADJUST WIDTH AS REQUIRED FOR EQUIPMENT INSTALLED, 24" MINIMUM, 72" MAXIMUM SPAN WITHOUT ADDITIONAL SUPPORT.
 2. EQUIPMENT ARRANGEMENT AND CONNECTIONS ARE SUGGESTED. CONTRACTOR SHALL DETERMINE FINAL MOUNTING AND ARRANGEMENT.
 3. METERBASE INSTALLATION SHALL MEET REQUIREMENTS OF SERVING UTILITY. COORDINATE WITH UTILITY THROUGH THE ENGINEER FOR CONNECTION OF ELECTRIC SERVICE.

1
E8

LOAD CENTER DETAIL

SCALE: N.T.S.



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697DCK-22-T-00001
ELECTRICAL DETAILS

DATE:
6/12/2024
SHEET:
E8 OF E8

Designed By: KJP
Drawn By: DJR
Checked By: BEH

Date Revised: 7/08/2024, 4:50 PM
Layout Name: U:\2073016800\drawing\sheet\00831-ANC_S1-struct_plans.dwg
File Path and Name:

FLIGHT PLANNING BUILDING STRUCTURAL NOTES

(APPLIES UNLESS NOTED OTHERWISE)

STRUCTURAL STEEL:

TYPICAL STEEL STRENGTHS	
STRUCTURAL STEEL	ASTM A992 (Fy = 50 KSI)
TUBULAR STEEL	ASTM A500 GRADE "B" (Fy = 46 KSI)
BOLTS	ASTM A325

LATEST AISC AND AWS CODES APPLY. ALL BOLTS AND POST-INSTALLED CONCRETE ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS. ALL WELDING TO BE BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING TO BE DONE BY E70 SERIES LOW HYDROGEN RODS. ALL WELDING PER AMERICAN WELDING SOCIETY (AWS) STANDARDS, MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FOOT-POUNDS AT MINUS 20 DEGREES F. ALL BEAMS SHALL BE ERRECTED WITH THE NATURAL CAMBER UPWARDS.

PERFORM STEEL FABRICATION WITH ADDITIONAL SPECIAL INSPECTION OF WELDING OR BOLTING AS NOTED BELOW. THE STEEL FABRICATOR'S QUALIFICATIONS SHALL BE SUBMITTED TO THE MUNICIPALITY'S BUILDING SAFETY PLAN REVIEW AS A DEFERRED SUBMITTAL. AS AN ALTERNATIVE, THE STEEL FABRICATOR NEED NOT BE CERTIFIED IF SPECIAL INSPECTION PER IBC 2018, CHAPTER 17 IS PERFORMED. SUBMIT DETAILS OF THE SPECIAL INSPECTION PROGRAM TO THE MUNICIPALITY AS A DEFERRED SUBMITTAL FOR APPROVAL.

FINISH:

PRIMER: DEVCO COATINGS CATHACOAT 304V.
INTERMEDIATE COATING: DEVCO COATINGS, BAR-RUST 236.
FINISH COAT: DEVCO COATINGS, DEVTHANE-359.

WOOD:

VERSA-LAM LVL BEAMS: 2.1E 2800 AS MANUFACTURED BY BOISE CASCADE, OR EQUAL.

SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL, DATE AND SIGN ALL SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

GENERAL:

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

CODE:

2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) WITH MUNICIPALITY OF ANCHORAGE AMENDMENTS.

DESIGN LOADS:

RISK CATEGORY	II
ROOF SNOW LOAD	42 PSF
P _s	50 PSF
C _d	1.0
C _e	1.2
C _g	1.0
TYPICAL ROOF DEAD LOAD	12 PSF
WIND LOADS:	
V _{ult}	130 MPH
V _{exp}	102 MPH
EXPOSURE	C
C _{pi}	±0.18

SEISMIC LOADS:

SEISMIC DESIGN CATEGORY	D
IMPORTANCE I	1.0
SITE CLASSIFICATION	D-DEFAULT
S _s	1.5
S _i	0.67

STRUCTURAL SYSTEM:

STEEL ORDINARY MOMENT FRAMES	
R:	6.5
Q _b :	3.0
C _b :	4
S _{bs} :	1.2
S _{br} :	0.773
P:	1.0
EQUIVALENT LATERAL FORCE PROCEDURE	
BASE SHEAR	4.0 KIPS
C _b	0.18

FOUNDATIONS:

FOOTINGS	DESIGN SOIL BEARING VALUE
PRECAST FOOTINGS ON FIRM UNDISTURBED SOIL	1,500 PSF

CONCRETE:

TYPICAL CONCRETE COMPRESSIVE STRENGTHS		
CONCRETE	MINIMUM 28 DAY COMPRESSIVE STRENGTH	SLUMP AT PLACEMENT
FOOTINGS AND STEM WALLS	4,500 PSI	4" MAXIMUM

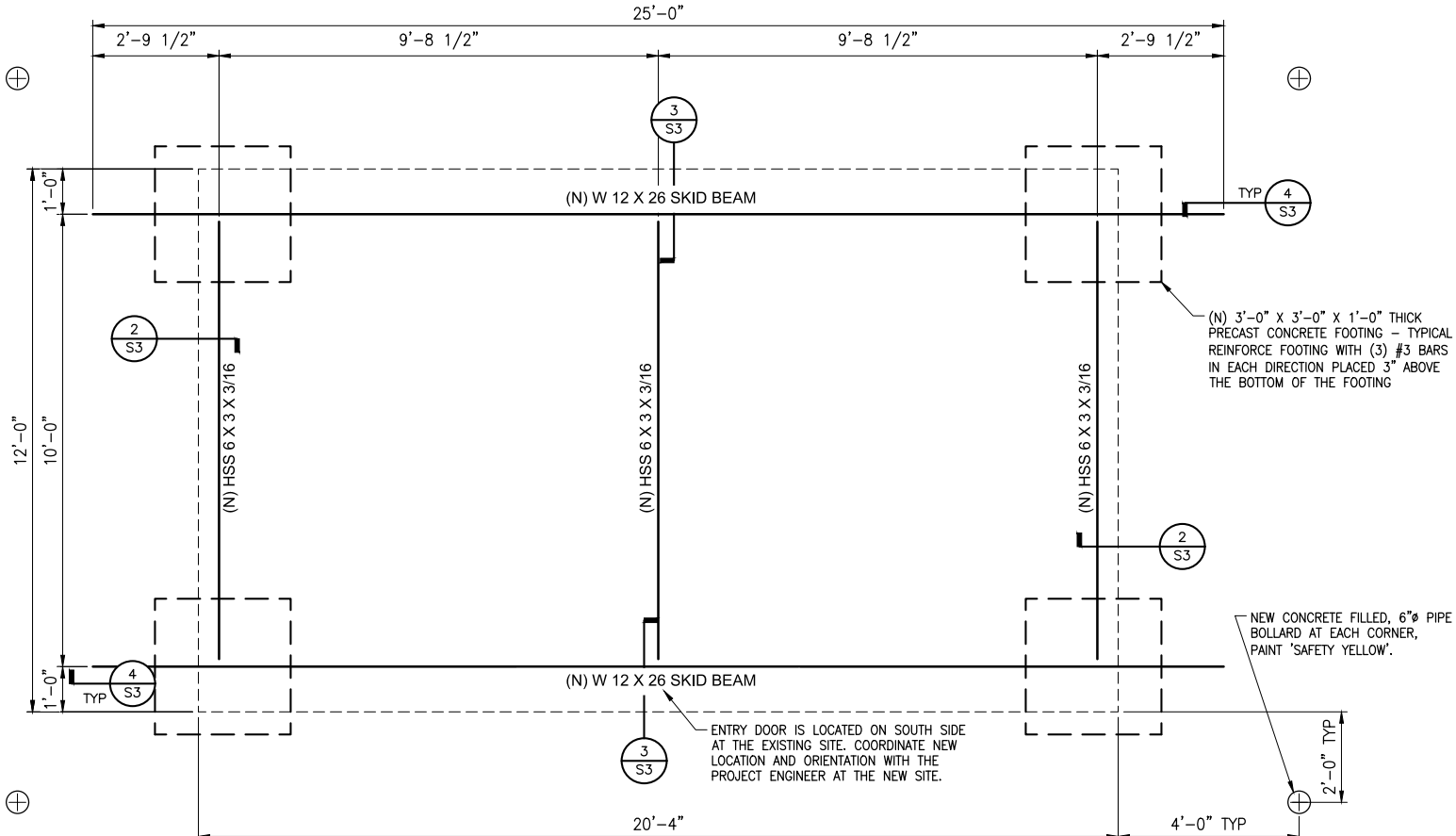
STRUCTURAL PORTLAND CEMENT CONCRETE MUST MEET THE REQUIREMENTS OF SECTION P-610. APPLY A SURFACE SEALER TO ALL STRUCTURAL PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION P-610.

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

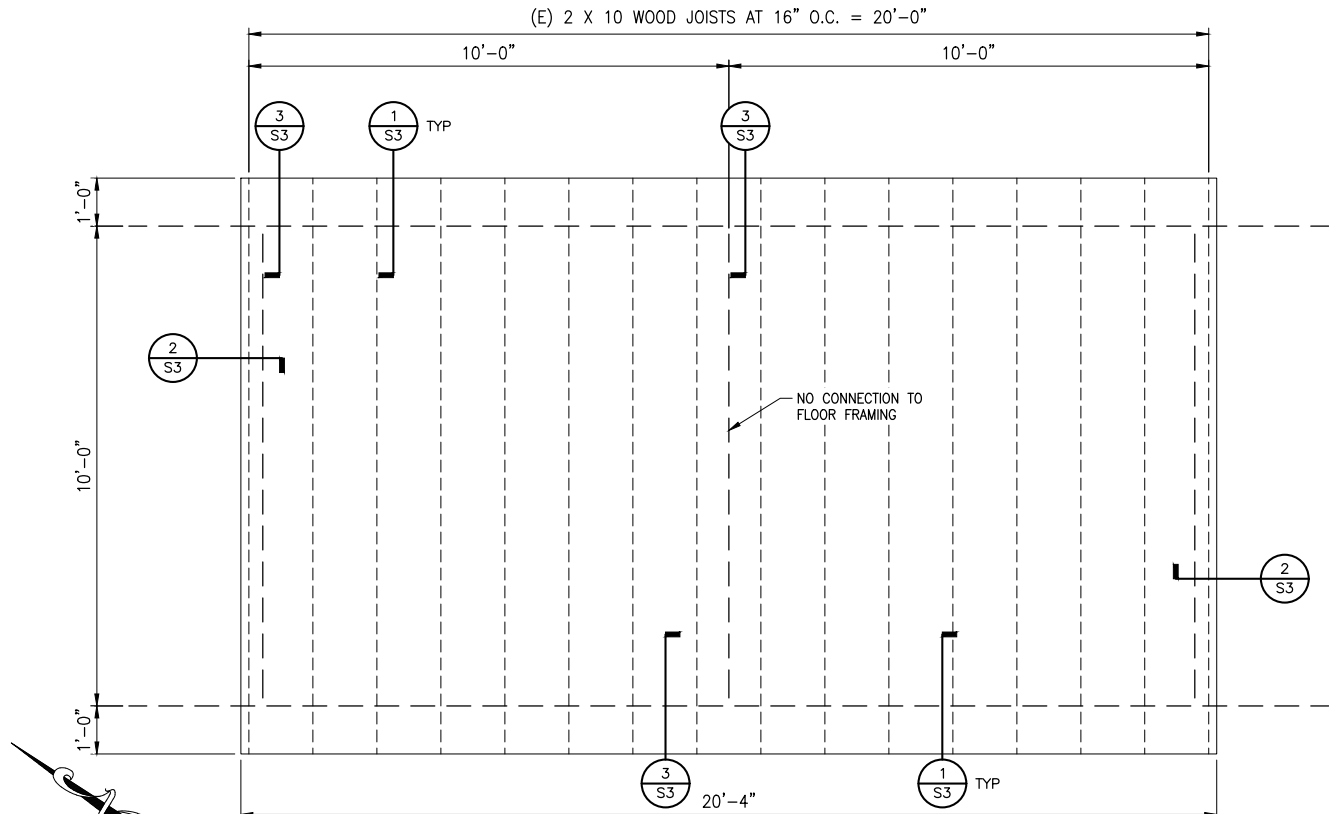
CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.

ADDITION OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED.

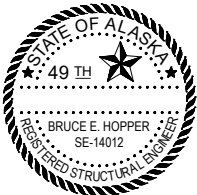
MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.



1 FOUNDATION SKID PLAN
S1 SCALE: 1/2"=1'-0"



2 FLOOR FRAMING PLAN
S1 SCALE: 1/2"=1'-0"



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PROJECT No. CRMS00831
697DCK-22-T-00001
FLIGHT PLANNING BLDG STRUCTURAL NOTES
AND STRUCTURAL PLANS

DATE: 7/8/2024
SHEET: S1 OF S4

Designed By: KJP
Drawn By: DJR
Checked By: BEH

Date Revised: 7/08/2024, 4:51 PM
Layout Name: U:\207\2016900\drawing\sheet\00831-REEVE_S2-struct_plans.dwg
File Path and Name:

REEVE BUILDING STRUCTURAL NOTES

(APPLIES UNLESS NOTED OTHERWISE)

CODE:

2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) WITH MUNICIPALITY OF ANCHORAGE AMENDMENTS.

DESIGN LOADS:

RISK CATEGORY	II
ROOF SNOW LOAD	42 PSF
P _s	50 PSF
C _e	1.0
C _d	1.2
C _s	1.0
TYPICAL ROOF DEAD LOAD	12 PSF
WIND LOADS:	
V _{ult}	130 MPH
V _{asp}	102 MPH
EXPOSURE	C
C _{pi}	±0.18

SEISMIC LOADS:

SEISMIC DESIGN CATEGORY	D
IMPORTANCE I	1.0
SITE CLASSIFICATION	D-DEFAULT
S _s	1.5
S _i	0.67

STRUCTURAL SYSTEM:

STEEL ORDINARY MOMENT FRAMES	
R:	6.5
Q _b :	3.0
C _b	4
S _{bs}	1.2
S _{pi}	0.773
P:	1.0
EQUIVALENT LATERAL FORCE PROCEDURE	
BASE SHEAR	4.0 KIPS
C _θ	0.18

FOUNDATIONS:

FOOTINGS	DESIGN SOIL BEARING VALUE
PRECAST FOOTINGS ON FIRM UNDISTURBED SOIL	1,500 PSF

FINISH:

PRIMER: DEVOE COATINGS CATHACAT 304V.
INTERMEDIATE COATING: DEVOE COATINGS, BAR-RUST 236.
FINISH COAT: DEVOE COATINGS, DEVTHANE-359.

WOOD:

VERSA-LAM LVL BEAMS: 2.1E 2800 AS MANUFACTURED BY BOISE CASCADE, OR EQUAL.

SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL, DATE AND SIGN ALL SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

CONCRETE:

TYPICAL CONCRETE COMPRESSIVE STRENGTHS		
CONCRETE	MINIMUM 28 DAY COMPRESSIVE STRENGTH	SLUMP AT PLACEMENT
FOOTINGS AND STEM WALLS	4,500 PSI	4" MAXIMUM

STRUCTURAL PORTLAND CEMENT CONCRETE MUST MEET THE REQUIREMENTS OF SECTION P-610. APPLY A SURFACE SEALER TO ALL STRUCTURAL PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION P-610.

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CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.

ADDITION OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.

STRUCTURAL STEEL:

TYPICAL STEEL STRENGTHS	
STRUCTURAL STEEL	ASTM A992 (F _y = 50 KSI)
TUBULAR STEEL	ASTM A500 GRADE "B" (F _y = 46 KSI)
BOLTS	ASTM A325

LATEST AISC AND AWS CODES APPLY. ALL BOLTS AND POST-INSTALLED CONCRETE ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS. ALL WELDING TO BE BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING TO BE DONE BY E70 SERIES LOW HYDROGEN RODS. ALL WELDING PER AMERICAN WELDING SOCIETY (AWS) STANDARDS, MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FOOT-POUNDS AT MINUS 20 DEGREES F. ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.

PERFORM STEEL FABRICATION WITH ADDITIONAL SPECIAL INSPECTION OF WELDING OR BOLTING AS NOTED BELOW. THE STEEL FABRICATOR'S QUALIFICATIONS SHALL BE SUBMITTED TO THE MUNICIPALITY'S BUILDING SAFETY PLAN REVIEW AS A DEFERRED SUBMITTAL. AS AN ALTERNATIVE, THE STEEL FABRICATOR NEED NOT BE CERTIFIED IF SPECIAL INSPECTION PER IBC 2018, CHAPTER 17 IS PERFORMED. SUBMIT DETAILS OF THE SPECIAL INSPECTION PROGRAM TO THE MUNICIPALITY AS A DEFERRED SUBMITTAL FOR APPROVAL.

GENERAL CONTINUED:

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS, AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

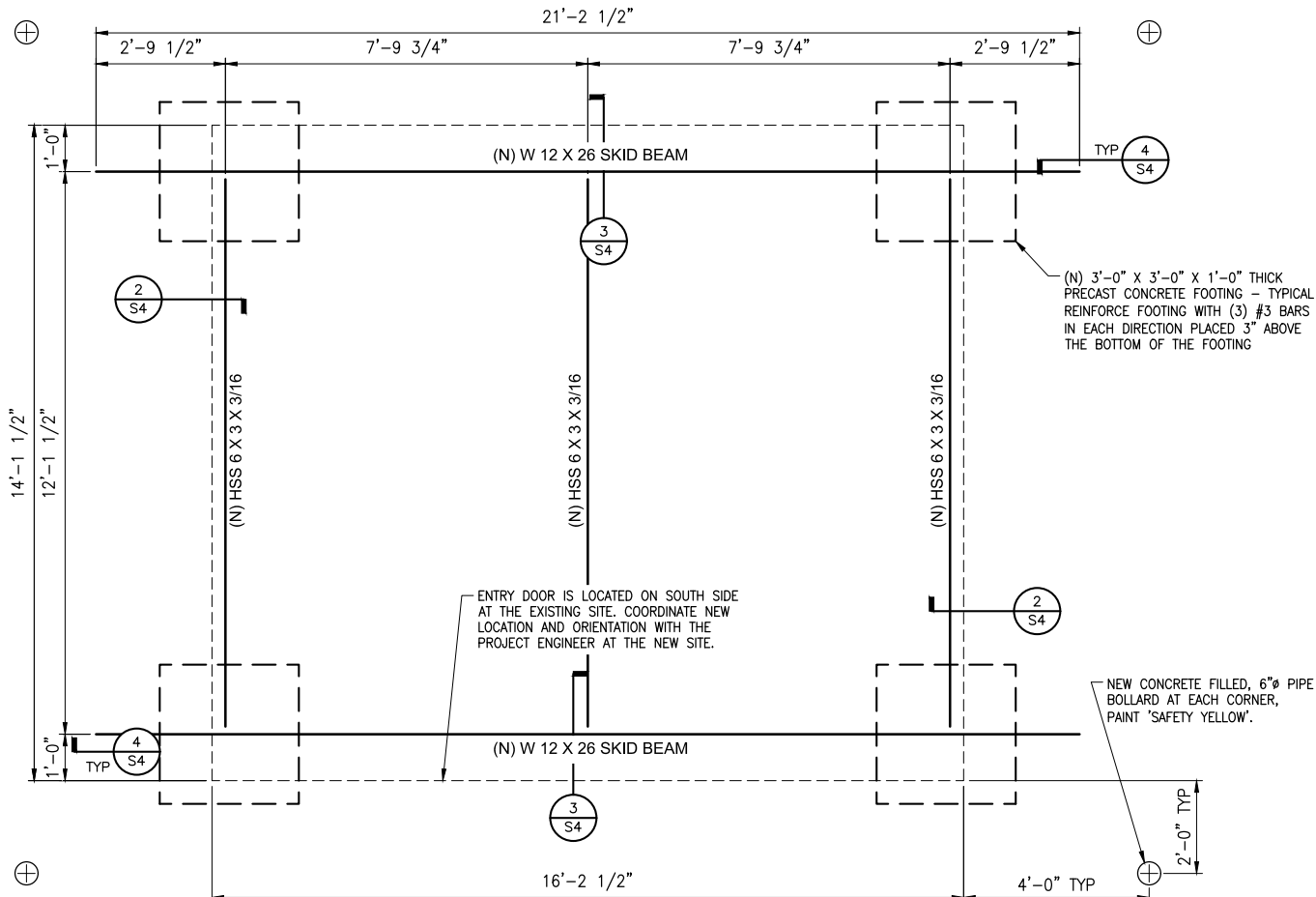
"TYPICAL DETAILS" ARE NOT CUT OUT ON THE DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES, AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

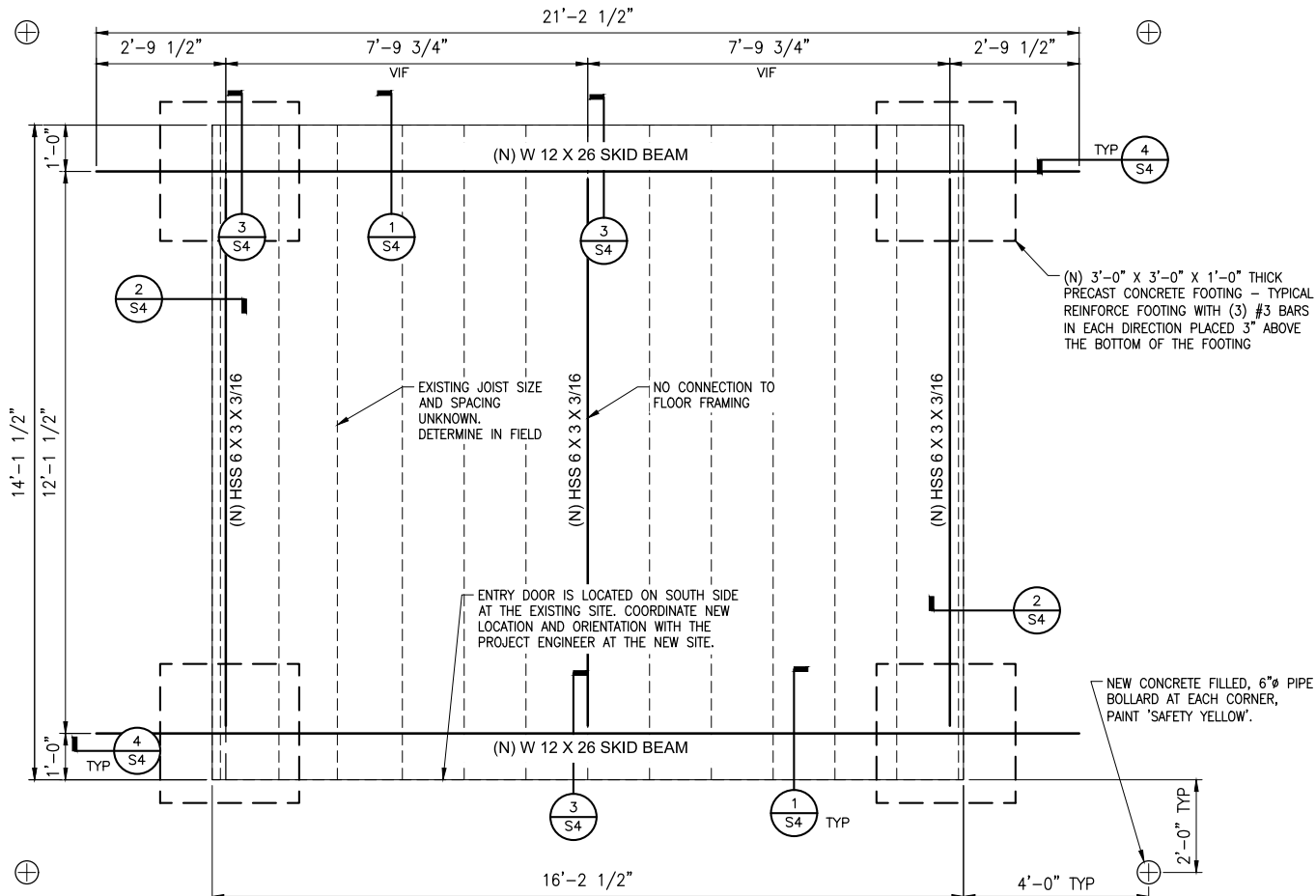
ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ALASKA.

CONSTRUCTION SEQUENCE:

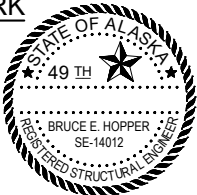
- TAKE PHOTOGRAPHS OF THE STRUCTURE BEFORE BEGINNING WORK TO DOCUMENT EXISTING CONDITIONS.
- DISCONNECT UTILITIES.
- LIFT BUILDING AS NEEDED TO INSTALL STEEL FRAME.
- INSTALL STEEL FRAME.
- USE THE STEEL FRAME TO LIFT AND MOVE THE BUILDING TO THE NEW SITE.
- PLACE NEW FOUNDATION PADS AT NEW SITE AS INDICATED BY THE FOUNDATION PLAN.
- LOWER THE BUILDING TO REST ON THE PREPARED FOUNDATIONS.
- ATTACH THE STEEL FRAME TO THE CONCRETE FOUNDATION PADS AS INDICATED IN THE DETAILS.
- CONNECT NEW UTILITIES.
- INSPECT FINAL WORK, COMPARING FINAL CONDITIONS TO RECORD PHOTOGRAPHS. REPAIR ANY DAMAGE CAUSED BY THE MOVE, RESTORING TO PREVIOUS CONDITIONS AS INDICATED IN THE PHOTOGRAPHS.



1 FOUNDATION SKID PLAN - NEW WORK
SCALE: 1/2"=1'-0"



2 NEW WORK SUPERIMPOSED ON EXISTING FLOOR FRAMING
SCALE: 1/2"=1'-0"



STANTEC CONSULTING SERVICES INC.
725 EAST FIREWEED LANE, SUITE 200
ANCHORAGE, AK 99503-2245
(907) 276-4245
AUTHORIZATION TO PRACTICE
#AECC1277

BY	DATE	REVISION

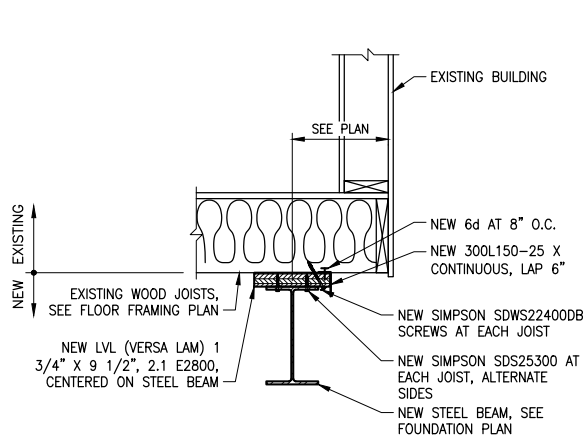
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

TED STEVENS ANCHORAGE INT'L AIRPORT
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T-00001
REEVE AIR BLDG STRUCTURAL NOTES
AND STRUCTURAL PLANS

DATE:
7/8/2024
SHEET:
S2 OF S4

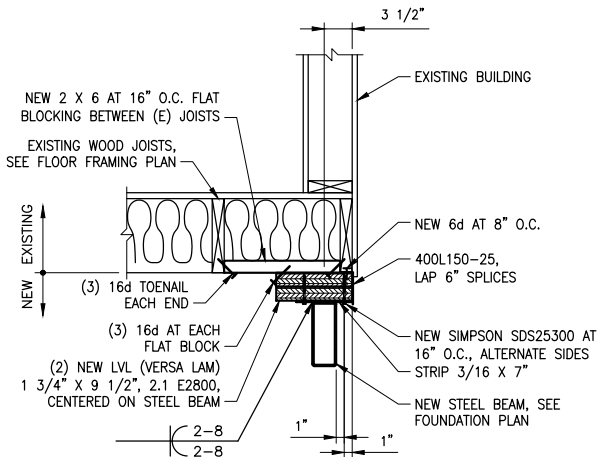
Designed By: KJP
Drawn By: DJR
Checked By: BEH

Date Revised: 7/08/2024, 4:51 PM
Layout Name: Layout
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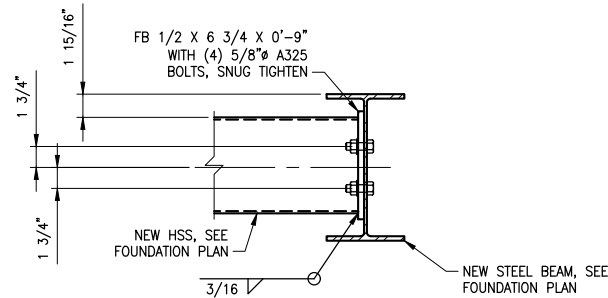
1 EXISTING JOISTS AT NEW WF BEAM

S3 SCALE: 1"=1'-0"



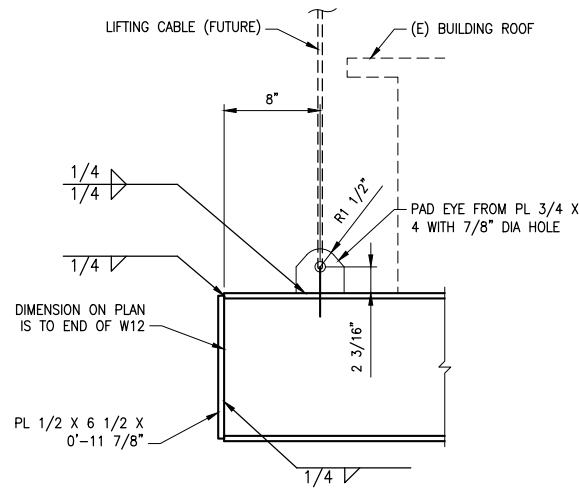
2 EXISTING JOISTS AT NEW HSS BEAM

S3 SCALE: 1"=1'-0"



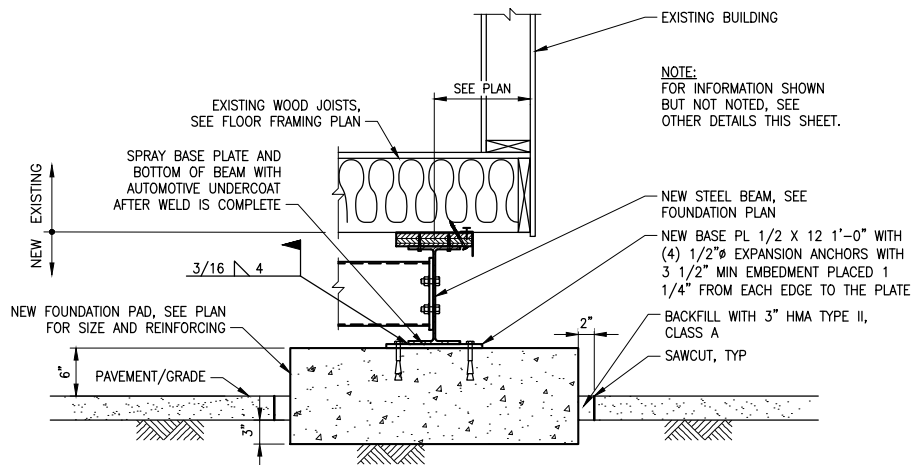
3 NEW HSS AT NEW WF BEAM

S3 SCALE: 1 1/2"=1'-0"



4 PADEYE AT NEW STEEL BEAM

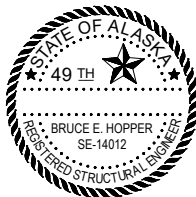
S3 SCALE: 1 1/2"=1'-0"



5 NEW BUILDING FOUNDATION PAD

S3 SCALE: 1"=1'-0"

1' 0 6" 1' 2'
Scale: 1"=1'-0"



STANTEC CONSULTING SERVICES INC.
725 EAST FIREWEED LANE, SUITE 200
ANCHORAGE, AK 99503-2245
(907) 276-4245
AUTHORIZATION TO PRACTICE
#AECC1277

BY	DATE	REVISION

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

TED STEVENS ANCHORAGE INT'L AIRPORT
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
697DCK-22-T-00001
FLIGHT PLANNING BLDG
STRUCTURAL DETAILS

DATE: 7/8/2024
SHEET: S3 OF S4

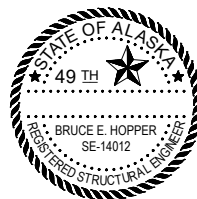
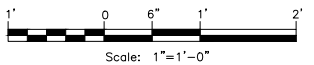
1 EXISTING JOISTS AT NEW WF BEAM

2 EXISTING JOISTS AT NEW HSS BEAM
S4 SCALE: 1"=1'-0"

3 NEW HSS AT NEW WF BEAM
S4 SCALE: 1 1/2"=1'-0"

4 PADEYE AT NEW STEEL BEAM
S4 SCALE: 1 1/2"=1'-0"

5 NEW BUILDING FOUNDATION PAD
S4 SCALE: 1"=1'-0"



STANTEC CONSULTING SERVICES INC.
725 EAST FIREWEED LANE, SUITE 200
ANCHORAGE, AK 99503-2245
(907) 276-4245
AUTHORIZATION TO PRACTICE
#AECC1277

BY	DATE	REVISION

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

TED STEVENS ANCHORAGE INT'L AIRPORT
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
697DCK-22-T-00001
REEVE AIR BLDG
STRUCTURAL DETAILS

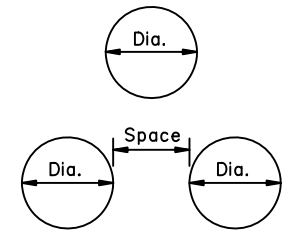
DATE:
7/8/2024

SHEET:
S4 OF S4

GENERAL NOTES:

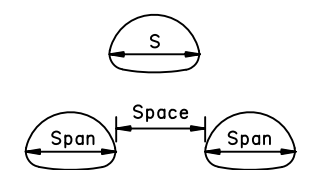
- Sidefill shall be placed and compacted with care under haunches of pipe and shall be brought up evenly and simultaneously on both sides of pipe to 1 foot above the top of the full length of the pipe.
- Alternate installation methods may only be used when specified or approved by the Engineer.

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



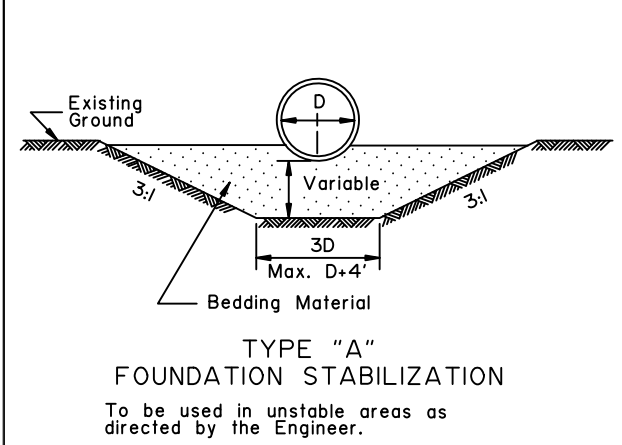
MULTIPLE INSTALLATIONS	
Dia.	Minimum Space Between Pipes
0" - 42"	24"
48" & Over	1/2 Span of pipe arch or 3', whichever is less.

State of Alaska DOT&PF
ALASKA STANDARD PLAN
CULVERT PIPE & ARCH
INSTALLATION DETAILS

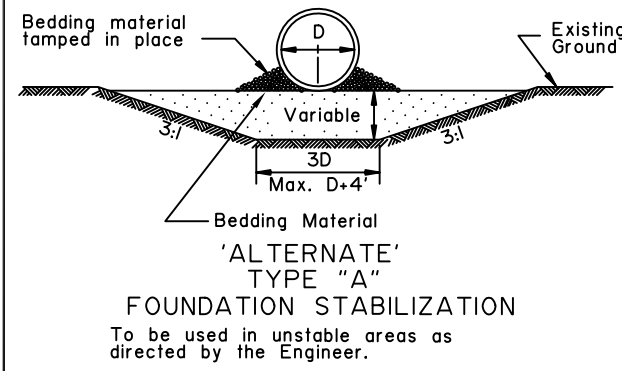
Adopted as an Alaska
Standard Plan by: *Kenneth J. Fisher*
Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

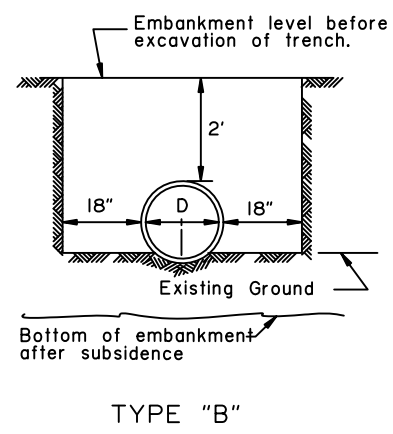
Last Code and Stds. Review
By: Date:
Next Code and Standards Review date: 02/08/2029



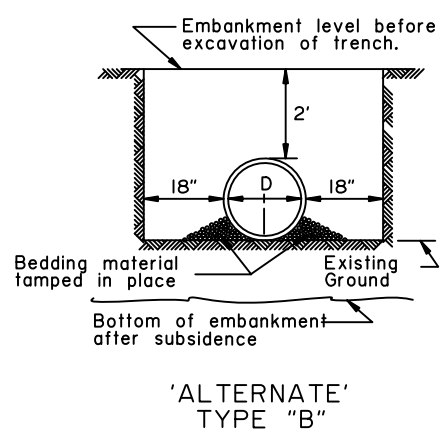
TYPE "A"
FOUNDATION STABILIZATION
To be used in unstable areas as
directed by the Engineer.



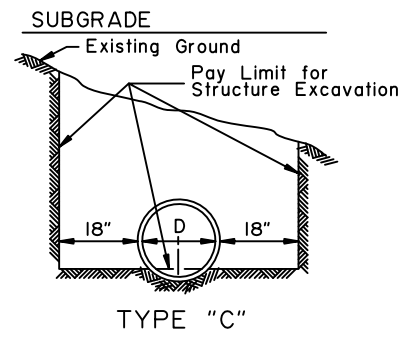
'ALTERNATE'
TYPE "A"
FOUNDATION STABILIZATION
To be used in unstable areas as
directed by the Engineer.



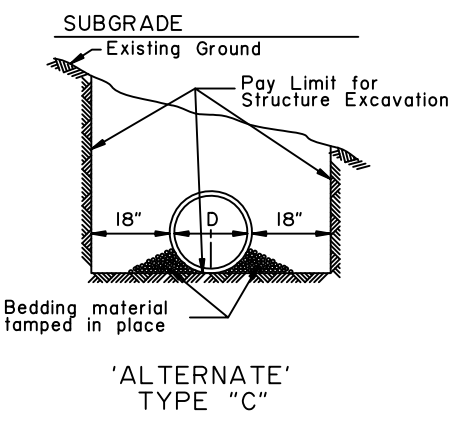
TYPE "B"



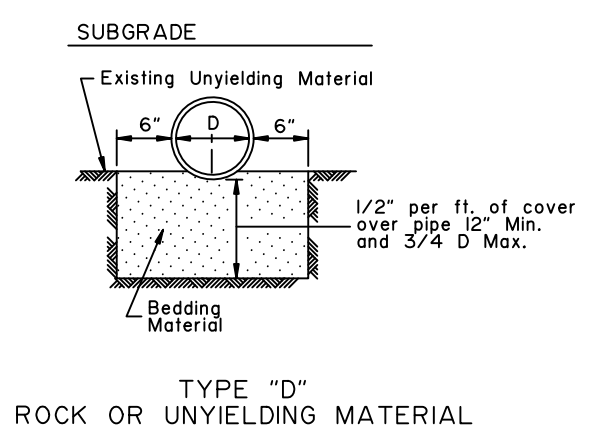
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TYPE "B"



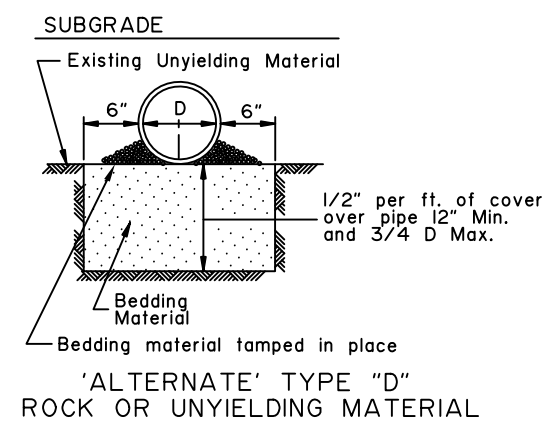
TYPE "C"



'ALTERNATE'
TYPE "C"

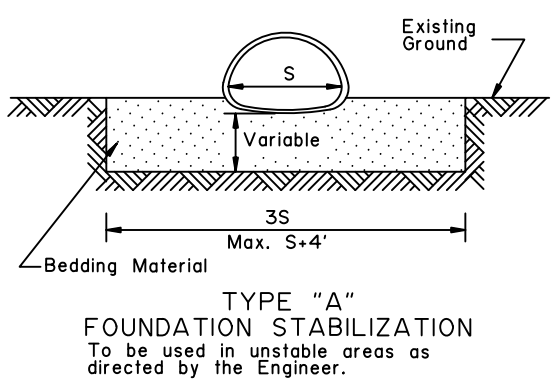


TYPE "D"
ROCK OR UNYIELDING MATERIAL

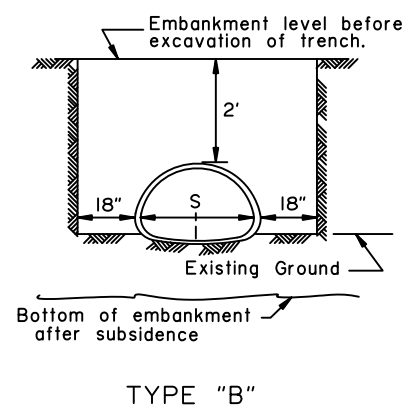


'ALTERNATE' TYPE "D"
ROCK OR UNYIELDING MATERIAL

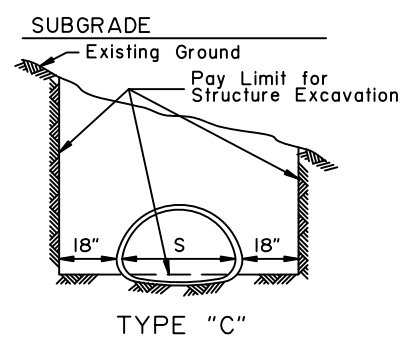
CULVERT PIPE



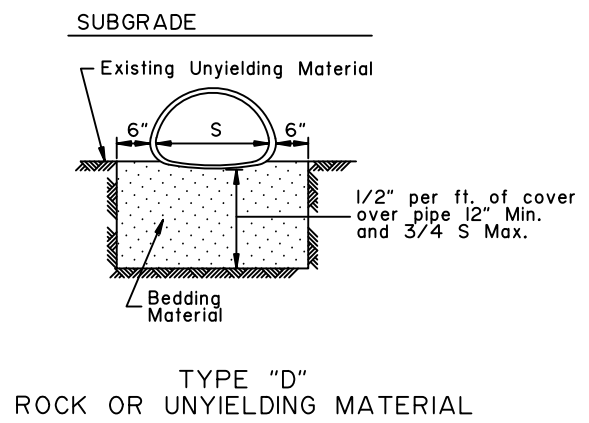
TYPE "A"
FOUNDATION STABILIZATION
To be used in unstable areas as
directed by the Engineer.



TYPE "B"



TYPE "C"



TYPE "D"
ROCK OR UNYIELDING MATERIAL

ARCH

GENERAL NOTES:

- All material and workmanship shall be in accordance with the State of Alaska, Standard Specifications for Highway Construction.
- The contractor shall select only pipes that meet specific height of cover criteria shown on the plans or in the special provisions.
- No more than one type of pipe may be used on any single installation or installation grouping.
- 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.
- See Standard Plan D-01 "Culvert Pipe & Arch Installation Details" for foundation and structural backfill details.
- 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.
- 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".

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.

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

GENERAL NOTES

- All material and workmanship shall be in accordance with the State of Alaska, Standard Specifications for Highway Construction.
- The contractor shall select only pipes that meet specific height of cover criteria shown on the plans or in the special provisions.
- No more than one type of pipe may be used on any single installation or installation grouping.
- 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.
- See Standard Plan D-01 "Culvert Pipe & Arch Installation Details" for foundation and structural backfill details.
- 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.
- 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".

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
Thickness		0.111	0.140	0.170	0.188	0.218	0.249
Dia. (In)	Min. (In)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)	Max. (Ft)
60	12	46	67	87	100	100+	100+
66	12	42	60	79	91	100+	100+
72	12	38	55	73	83	100+	100+
78	12	35	51	67	77	93	100+
84	12	32	47	62	71	86	100+
90	12	30	44	58	67	80	95
96	12	28	41	54	62	75	89
102	18	27	39	51	59	71	84
108	18	25	37	48	55	67	79
114	18	24	35	45	52	63	75
120	18	22	33	43	50	60	71
126	18	21	31	41	47	57	68
132	18	20	30	39	45	54	64
138	18	19	28	37	43	52	62
144	18	18	27	36	41	50	59

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

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

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.

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

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PIPE AND ARCH TABLES

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

GENERAL NOTES

- All material and workmanship shall be in accordance with the State of Alaska, Standard Specifications for Highway Construction.
- The contractor shall select only pipes that meet specific height of cover criteria shown on the plans or in the special provisions.
- No more than one type of pipe may be used on any single installation or installation grouping.
- 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.
- See Standard Plan D-01 "Culvert Pipe & Arch Installation Details" for foundation and structural backfill details.
- 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.
- 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".

Minimum & Maximum Cover for Aluminum Spiral Rib Circular Pipe*					
Gage		I6	I4	I2	I0
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

* $\frac{3}{4}$ x $\frac{3}{4}$ x $7\frac{1}{2}$ in. Corrugations

Minimum & Maximum Cover for Aluminum Spiral Rib Pipe-Arch*						
Gage			I6	I4	I2	I0
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

* $\frac{3}{4}$ x $\frac{3}{4}$ x $7\frac{1}{2}$ in. Corrugations

ALUMINUM SPIRAL RIB PIPE

STEEL SPIRAL RIB PIPE

Minimum & Maximum Cover for Steel and Aluminized Steel Spiral Rib Circular Pipe*					
Gage		I6	I4	I2	I0
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

* $\frac{3}{4}$ x $\frac{3}{4}$ x $7\frac{1}{2}$ 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

* $\frac{3}{4}$ x $\frac{3}{4}$ x $7\frac{1}{2}$ in. Corrugations

State of Alaska DOT&PF
ALASKA STANDARD PLAN

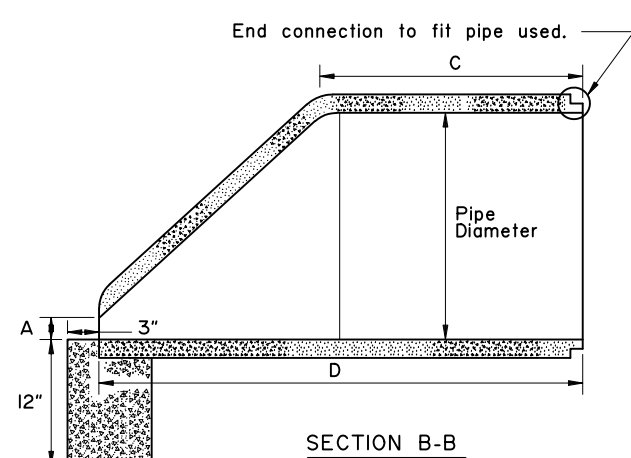
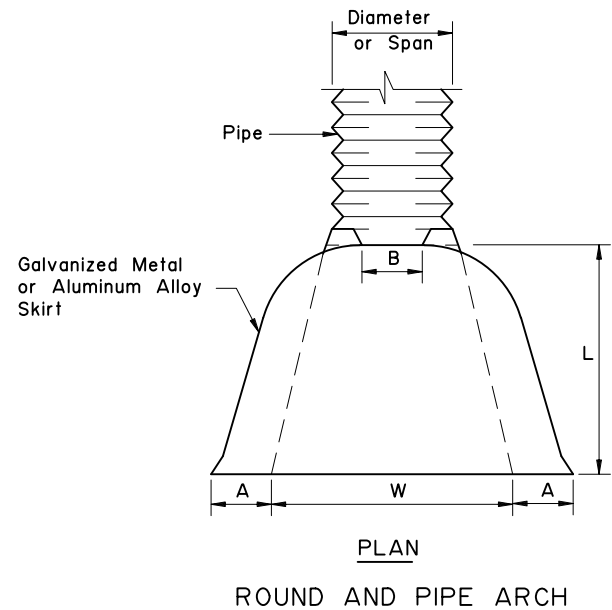
PIPE AND ARCH TABLES

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

Adoption Date: 7/17/2020

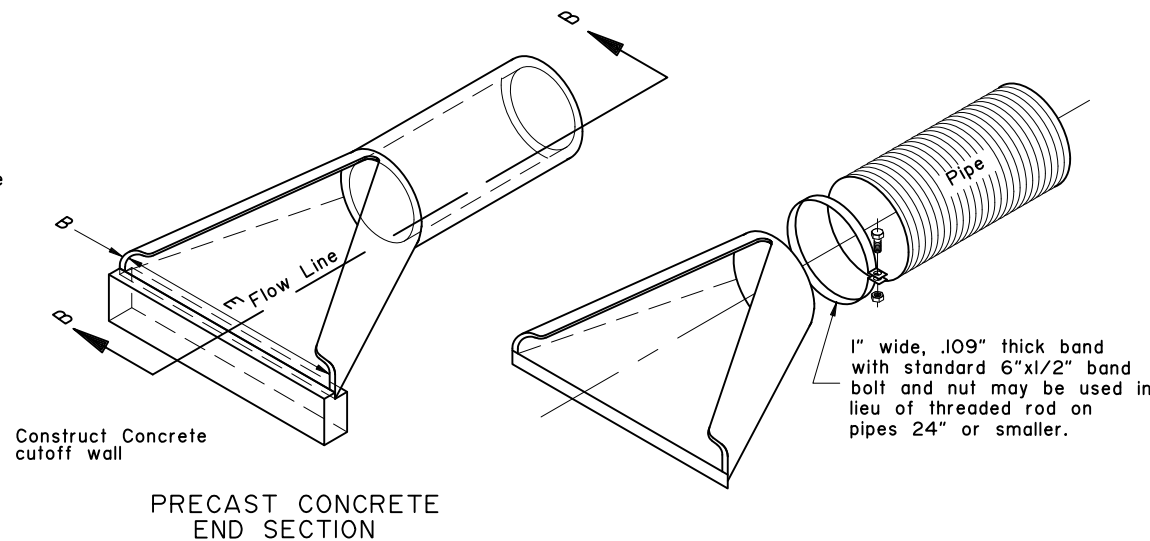
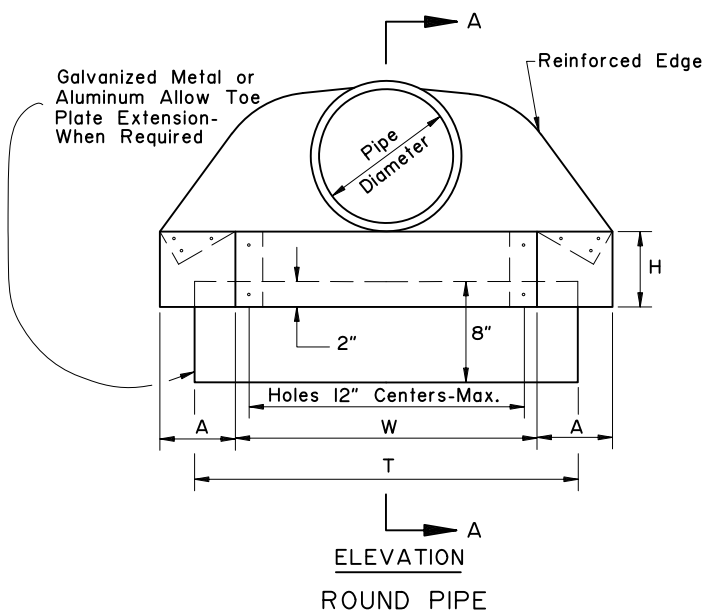
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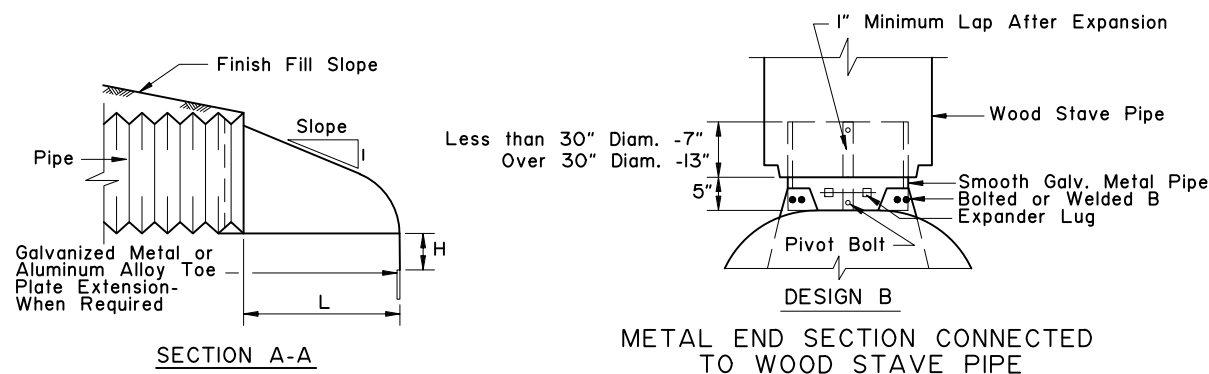
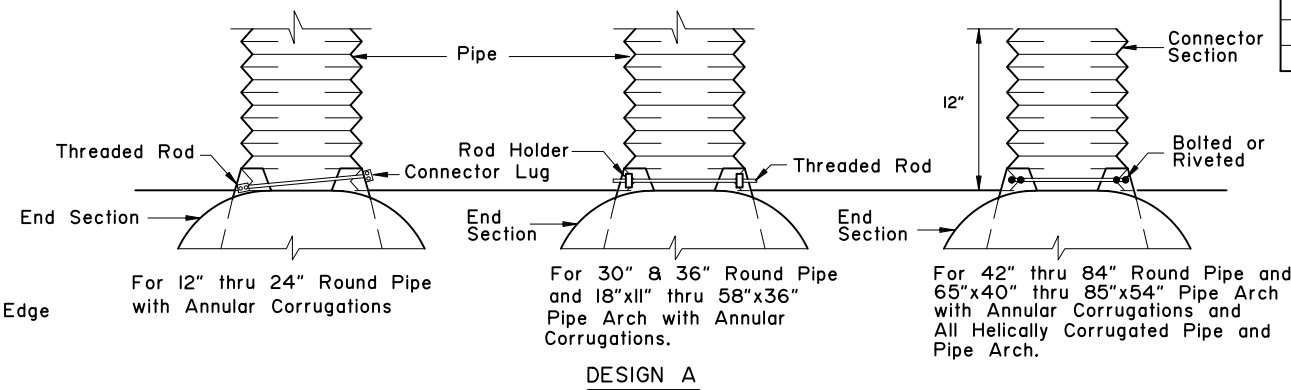
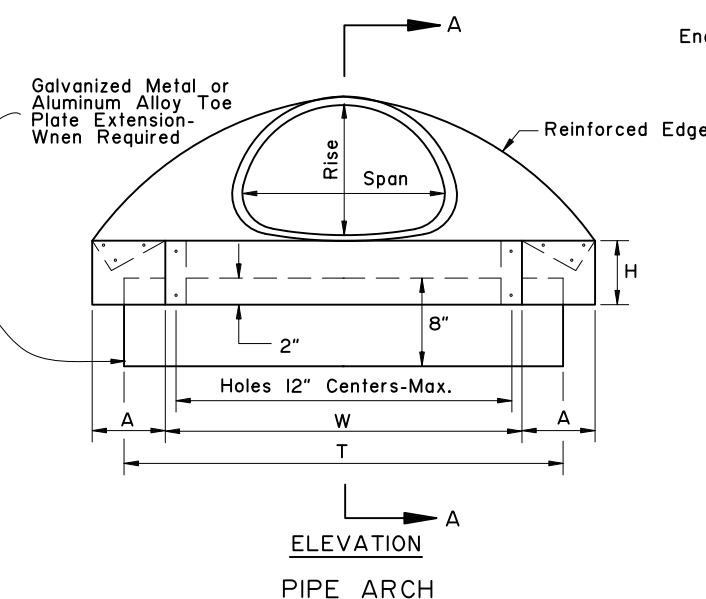


MINIMUM DIMENSIONS					
Pipe Diameter	A	B	C	D	E
12"	4"	1 3/4"	24"	46"	24"
18"	9"	2"	25"	50"	36"
24"	9 1/2"	2 1/2"	30"	72"	48"
30"	12"	3"	20"	73"	60"
36"	15"	3 3/8"	35"	97"	72"
42"	21"	3 3/4"	35"	98"	78"
48"	24"	4 1/4"	26"	98"	84"
54"	27"	4 5/8"	33"	99"	82"

ROUND PIPE										
Pipe Diam. Inches	Thickness For Aluminum	Thk. for Galv. Metal	Dimension Inches						Skirt	Approx. Slope
			1" A Tot.	B Max.	1" H Tot.	1 1/2" L Tot.	2" W Tot.	2" T Tot.		
12"	0.060	0.064	6"	6"	6"	21"	24"	34"	1 Pc.	2 1/2
15"	0.060	0.064	7"	8"	6"	26"	30"	40"	1 Pc.	2 1/2
18"	0.060	0.064	8"	10"	6"	31"	36"	46"	1 Pc.	2 1/2
21"	0.060	0.064	9"	12"	6"	36"	42"	52"	1 Pc.	2 1/2
24"	0.075	0.064	10"	13"	6"	41"	48"	58"	1 Pc.	2 1/2
30"	0.075	0.079	12"	16"	8"	51"	60"	70"	1 Pc.	2 1/2
36"	0.105	0.079	14"	19"	9"	60"	72"	94"	2 Pc.	2 1/2
42"	0.105	0.109	16"	22"	11"	69"	84"	106"	2 Pc.	2 1/2
48"	0.105	0.109	18"	27"	12"	78"	90"	112"	2 Pc.	2 1/4
54"	0.105	0.109	18"	30"	12"	84"	102"	122"	2 Pc.	2 1/4
60"	0.135	0.109	18"	33"	12"	87"	114"	134"	3 Pc.	2 1/4
66"	0.135	0.109	18"	36"	12"	87"	120"	142"	3 Pc.	2 1/4
72"	0.135	0.109	18"	39"	12"	87"	126"	146"	3 Pc.	2 1/4
78"	— —	0.109	18"	42"	12"	87"	132"	152"	3 Pc.	1 1/4
84"	— —	0.109	18"	45"	12"	87"	138"	158"	3 Pc.	1 1/6



PIPE-ARCH												
Pipe-Arch Dimension Inches		Thickness for Aluminum	Thk. for Galv. Metal	Dimension Inches						Skirt	Approx. Slope	
				A 1" Tol.	B Max.	H 1" Tol.	L 1 1/2" Tol.	W 2" Tol.	T 2" Tol.			
Span	Rise											
17"	13"	0.060	0.064	7"	9"	6"	19"	30"	40"	1 Pc.	2 1/2	
21"	15"	0.060	0.064	7"	10"	6"	23"	36"	46"	1 Pc.	2 1/2	
24"	18"	0.060	0.064	8"	12"	6"	28"	42"	52"	1 Pc.	2 1/2	
28"	20"	0.075	0.064	9"	14"	6"	32"	48"	58"	1 Pc.	2 1/2	
35"	24"	0.075	0.079	10"	16"	6"	39"	60"	70"	1 Pc.	2 1/2	
42"	29"	0.105	0.079	12"	18"	8"	46"	75"	85"	1 Pc.	2 1/2	
49"	33"	0.105	0.109	13"	21"	9"	53"	85"	103"	2 Pc.	2 1/2	
57"	38"	0.105	0.109	18"	26"	12"	63"	90"	114"	2 Pc.	2 1/2	
64"	43"	0.105	0.109	18"	30"	12"	70"	102"	130"	2 Pc.	2 1/4	
71"	47"	0.135	0.109	18"	33"	12"	77"	114"	144"	3 Pc.	2 1/4	
77"	52"	0.135	0.109	18"	36"	12"	84"	120"	158"	3 Pc.	2 1/4	
83"	57"	0.135	0.109	18"	39"	12"	90"	126"	170"	3 Pc.	2 1/4	



GENERAL NOTES:

1. Toe plate extensions will be required only when provided for on the plans. When required, the toe plate extensions shall be punched with holes to match those in lip of skirt and fastened with 3/8 inch or larger galvanized nuts and bolts and shall be the same gage as the end section.
2. Galvanized Metal or Aluminum Alloy End Sections may be used on Wood Stave and Plastic Pipe.
3. All 3 piece bodies shall have 12 gage sides and 10 gage center panels. Multiple panel bodies shall have lap seams which are to be tightly joined by 3/8" galvanized rivets or bolts.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT END SECTIONS

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

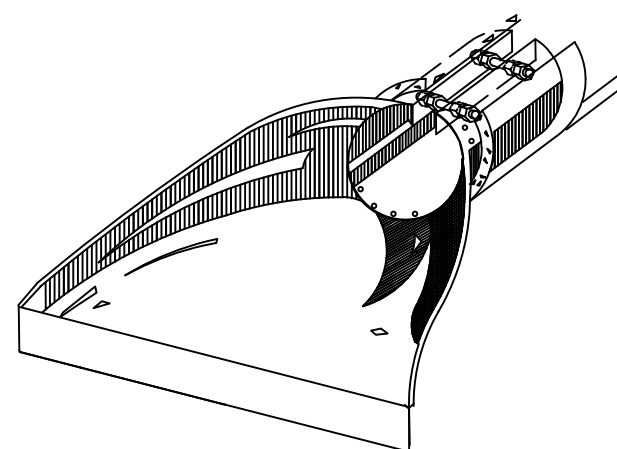
Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

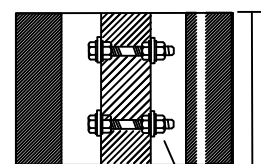
Next Code and Standards Review date: 02/08/2029

GENERAL NOTES

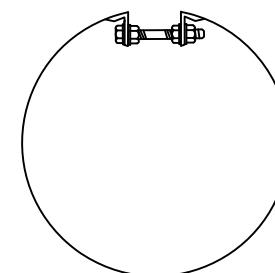
1. See general notes on sheet 1 of 3.
2. See sheet 1 of 3 for metal end section dimensions.
3. Insert bolts, washers and rivets shall be galvanized. Insert thickness is the same as the end section.
4. Use culvert inserts only at inlet.



FOR CONNECTING CONCRETE PIPE OR CORRUGATED
POLYETHYLENE PIPE TO METAL END SECTION.



SEE NOTE 2

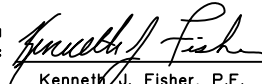


5/8" GALV.BOLTS

METAL INSERTS FOR USE WITH CORRUGATED PLASTIC
PIPE AND
METAL END SECTIONS

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT END SECTIONS

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

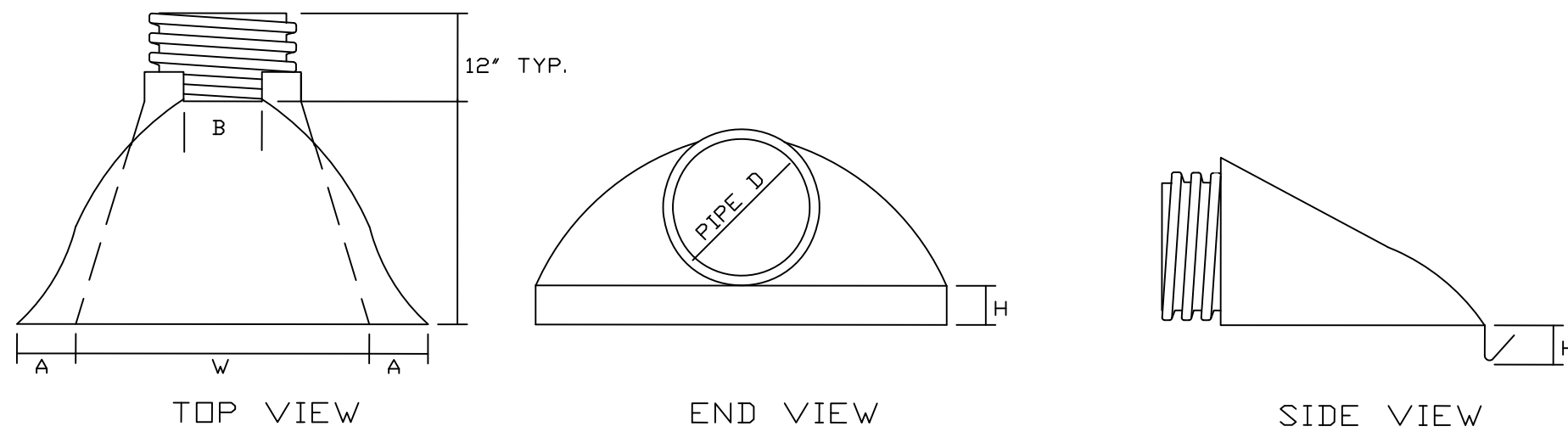
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GENERAL NOTES

1. Plastic flared end sections may be used with HDPE corrugated culvert pipes where noted in project plans or approved by project engineer.
2. Consult manufacturer's recommendations for proper sizing and coupling devices. Recommended fasteners may include connecting bands or cinch ties. Fittings across dimension B may include threaded rods with wing nuts or bolts and washers. plastic welds may be recommended.
3. Align coupling to accomodate pipe corrugations.
4. Metal components e.g. bolts or washers must be galvanized.
5. Attachment of end section should preserve culvert alignment and not impair pipe function. Use end sections only on culvert inlet.
6. Toe plate extensions will be required only when designated on the plans.
7. End sections will not be used on HDPE culvert pipes larger than 36" unless indicated by project plans or approved by the Engineer.

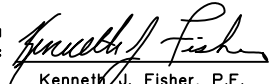


PIPE DIAMETER	DIMENSIONS IN MILLIMETERS				
	A<1"±>	B MAX	H<1"±>	L<1/2"±>	W<2"±>
12" and 15"	6 1/2"	10"	6 1/2"	25"	29"
18"	7 1/2"	15"	6 1/2"	32"	35"
24"	7 1/2"	18"	6 1/2"	36"	45"
30"	10 1/2"	N/A	7"	53"	68"
36"	10 1/2"	N/A	7"	53"	68"

PLASTIC END SECTION FOR CORRUGATED PLASTIC PIPE

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT END SECTIONS

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

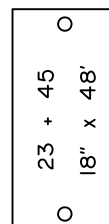
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GENERAL NOTES:

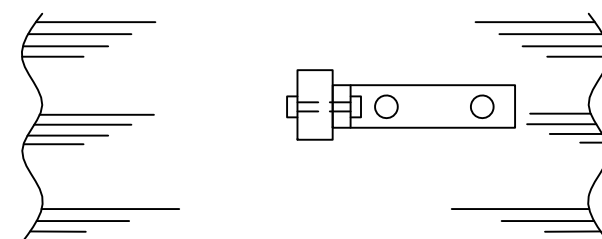
- Culvert marker post shall be installed with galvanized steel hardware meeting the following requirements: Galvanizing for nuts and washers shall meet the requirements of ASTM A-153, Class C. Galvanizing for steel mounting supports shall meet the requirements of MIL-P-26915A, or ASTM A-153, Class C.



Sta. and size of Culvert to be stamped into a 2"x4"x0.064" thick brass plate, fastened, with No. 8 round head brass screws, to the marker post as shown. Plate to be on side of post facing traffic.

DIRECTION OF TRAFFIC

Shoulder of Road

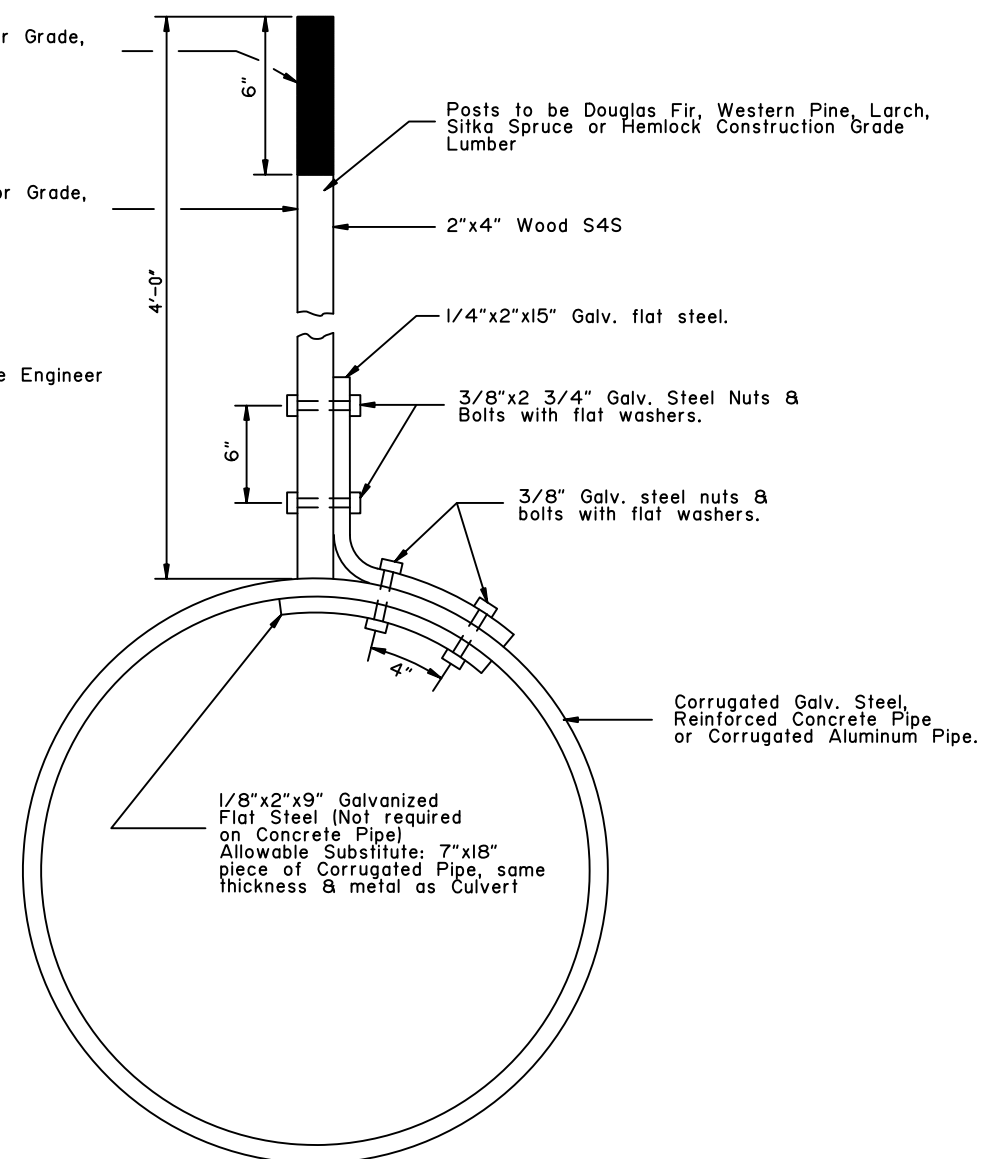


TOP VIEW

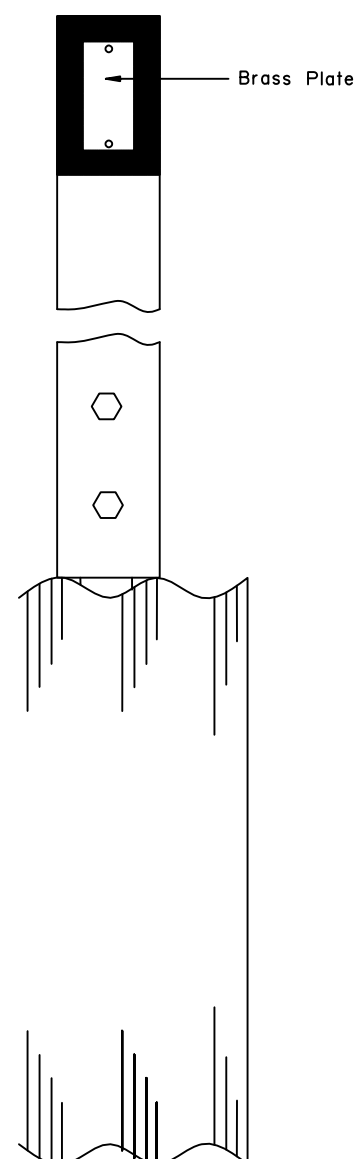
* Black Paint, Exterior Grade, Semi Gloss Enamel.

* White Paint, Exterior Grade, Semi Gloss Enamel

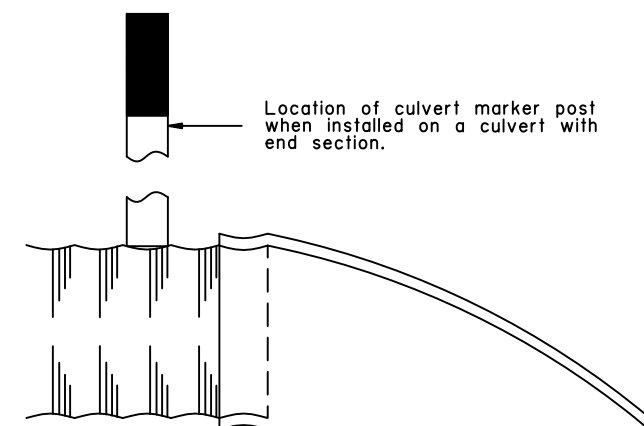
* As approved by the Engineer



END VIEW



SIDE VIEW



END SECTION SIDE VIEW

State of Alaska DOT&PF
ALASKA STANDARD PLAN

CULVERT MARKER POST

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

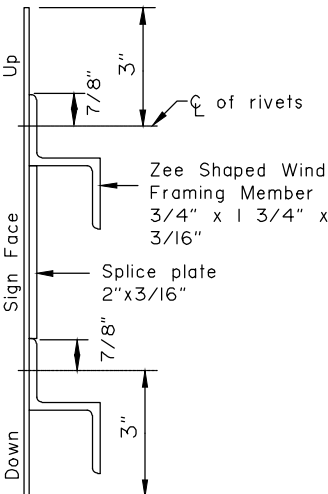
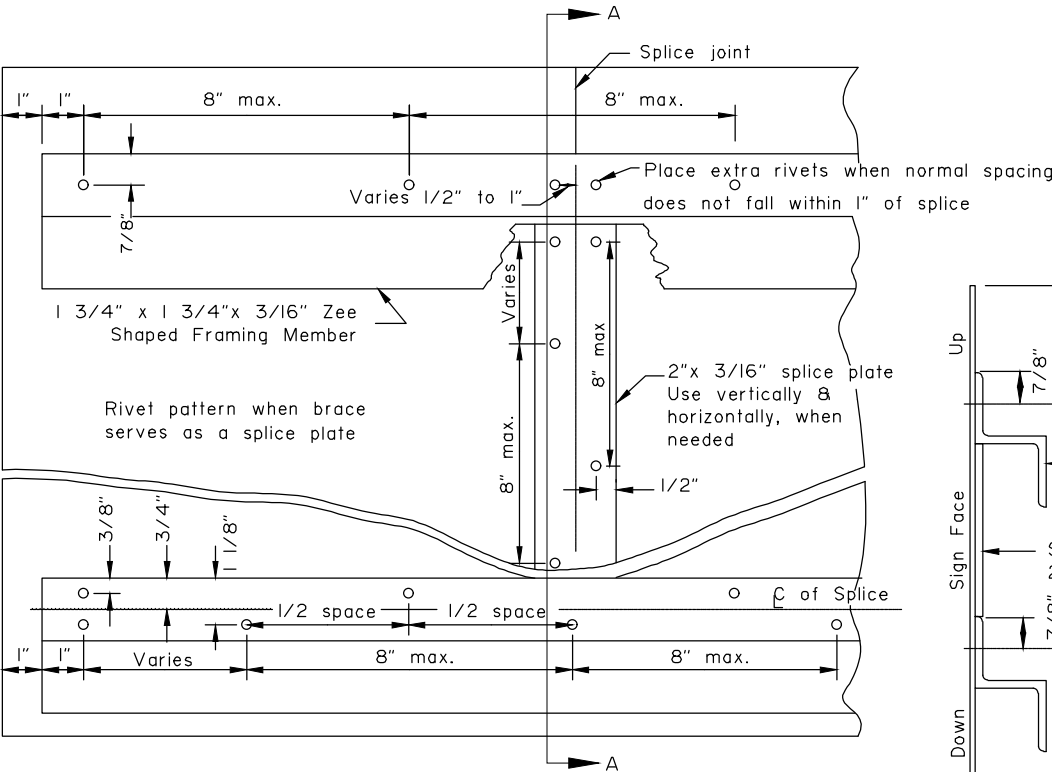
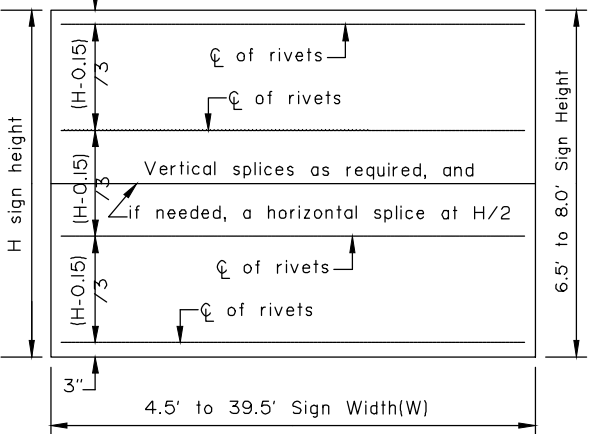
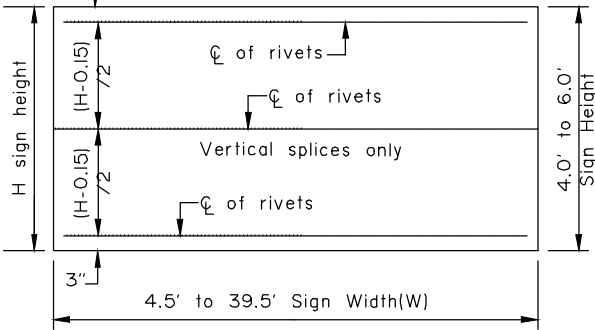
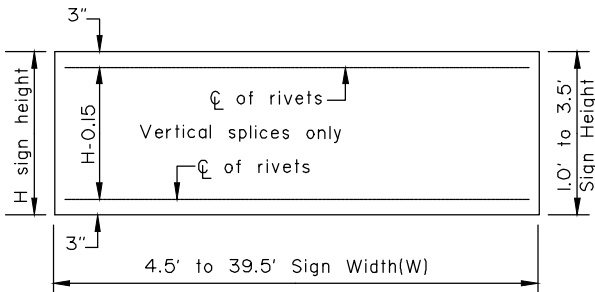
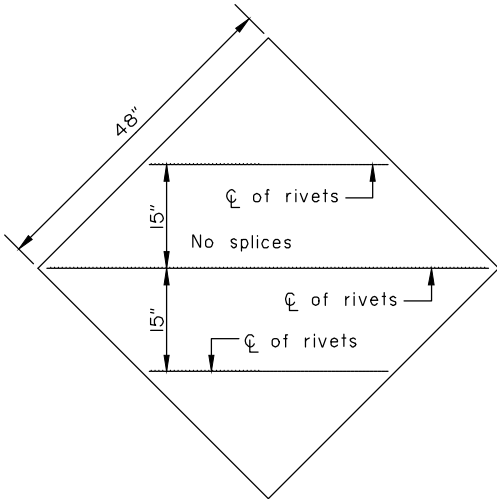
Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

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

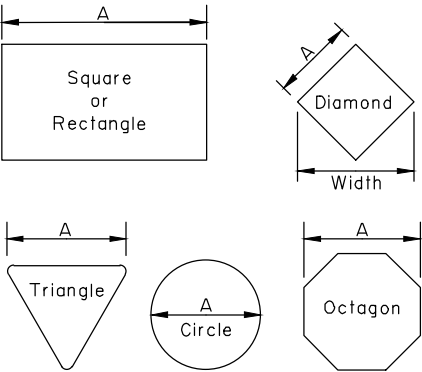
GENERAL NOTES

- See the standard specifications for the aluminum alloys that you may use for sign sheeting and wind framing members.
- Fabricate all signs from 0.125" thick aluminum sheeting.
- 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.
- 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.
- 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.
- Use 3/16" diameter rivets conforming to aluminum alloy 6061-T6 for cold driven rivets, or aluminum alloy 6061-T43 for hot driven rivets.
- 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.
- 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.
- Do not use round pipes for sign supports.



RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE

SECTION A-A



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

Note: Drawing not to scale

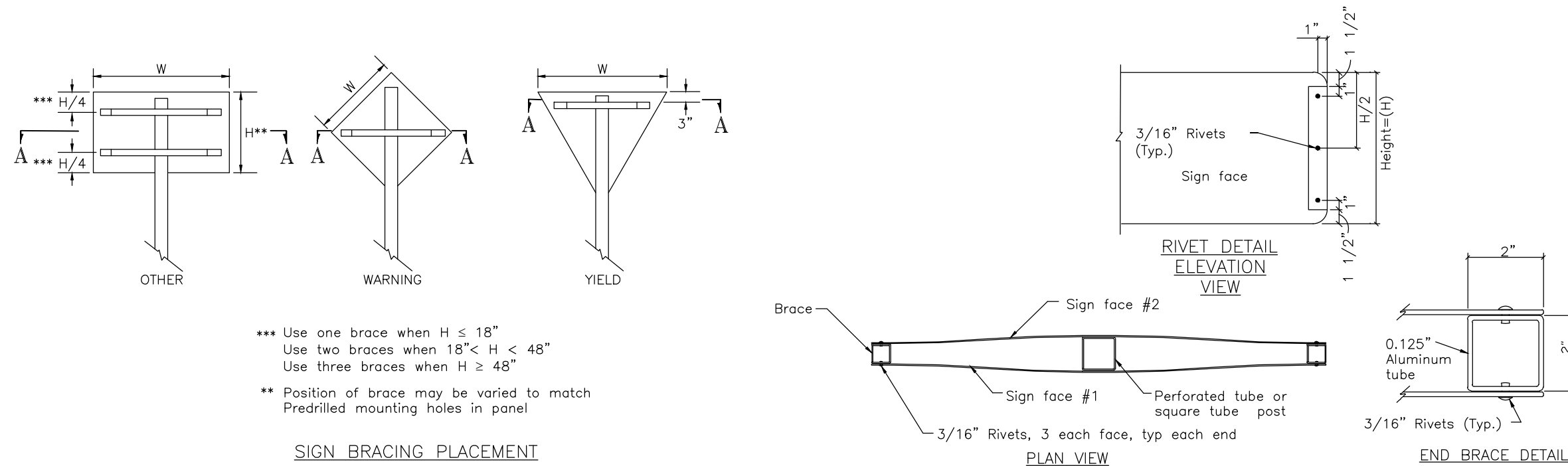
State of Alaska DOT&PF
ALASKA STANDARD PLAN
SIGN FRAMING

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

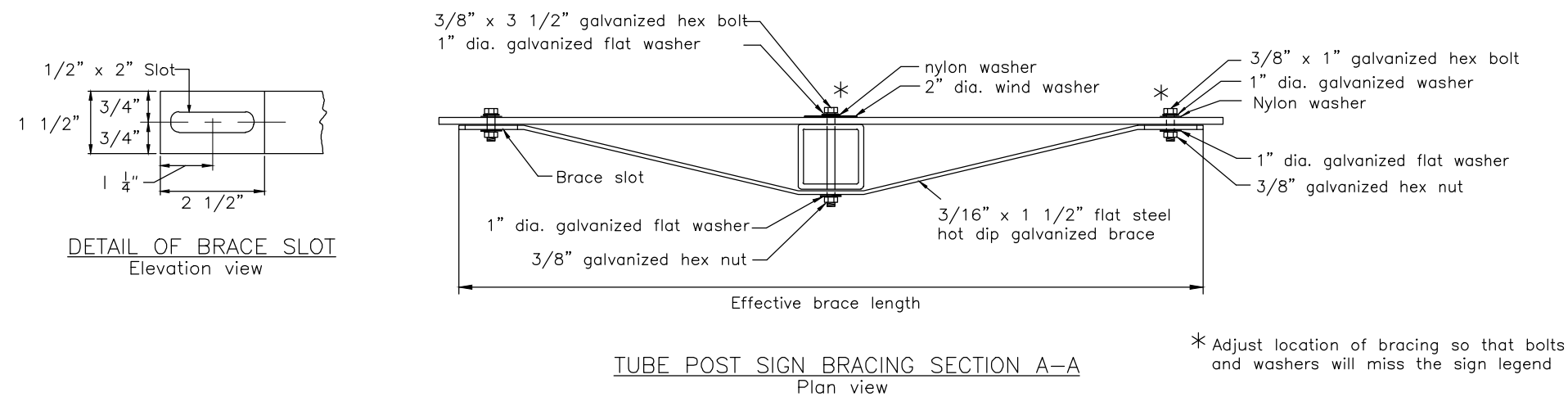
Adoption Date: 7/17/2020

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

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



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



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

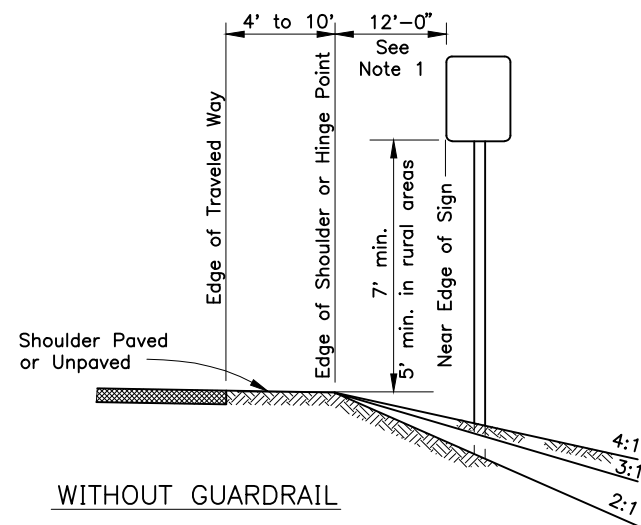
BRACING FOR SIGNS MOUNTED ON SINGLE POST

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

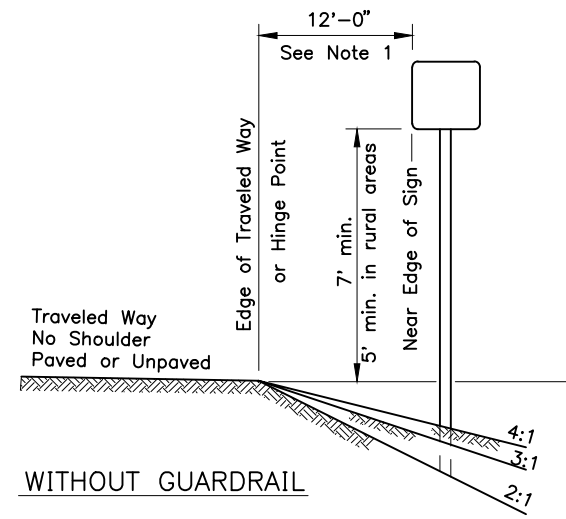
Adoption Date: 7/17/2020

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

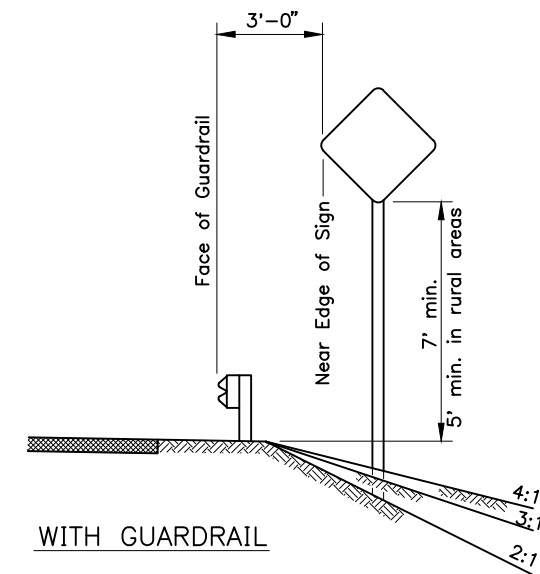
Next Code and Standards Review date: 7/8/2030

WITHOUT GUARDRAIL

SUBGRADES OVER 28', ALL SLOPES

WITHOUT GUARDRAIL

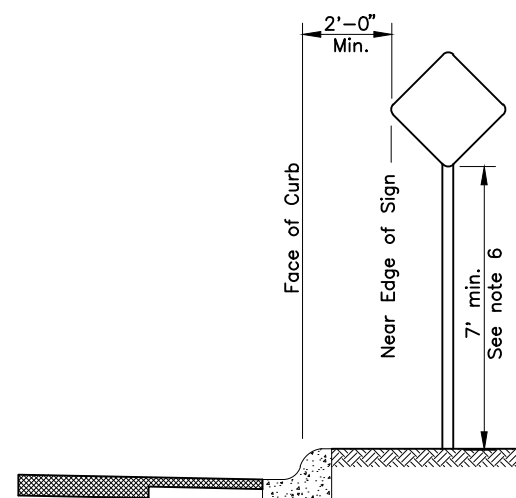
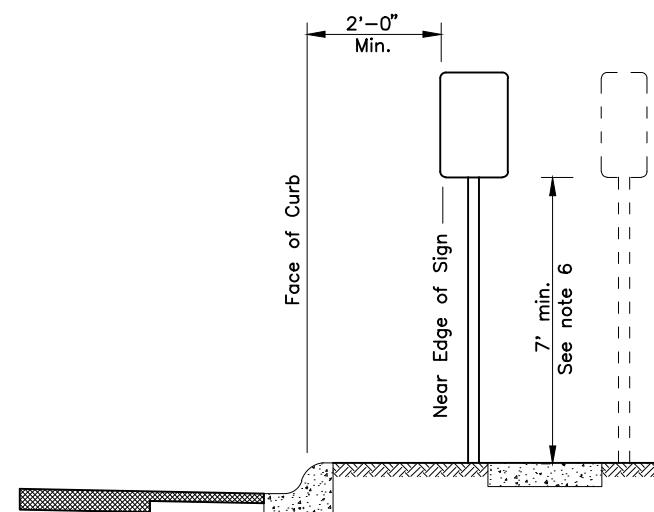
SUBGRADES 24' TO 28', ALL SLOPES

WITH GUARDRAIL

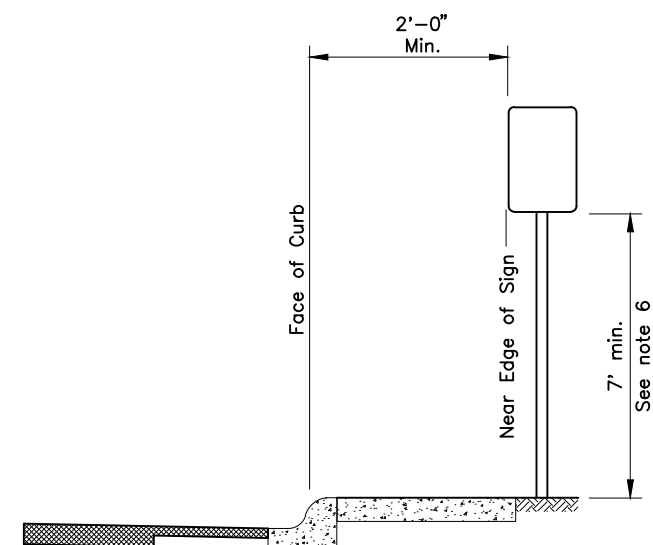
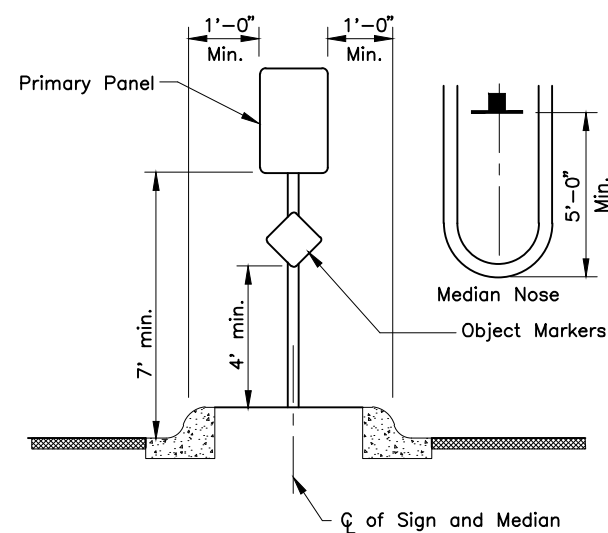
ALL SUBGRADES, ALL SLOPES

GENERAL NOTES

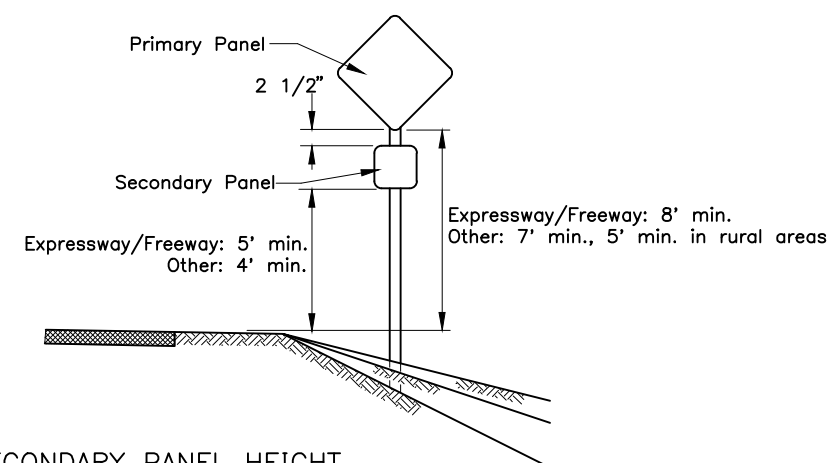
1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6' where shoulder width is 6' or greater.
2. Add 6" to mounting height on unpaved roads.
3. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
4. When signs are placed 30' or more from the edge 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 signs extend over sidewalks.
7. For construction signs in rural areas, mounting height shall be 7' minimum.

CURB WITHOUT SIDEWALKCURB WITH PARKWAY AND SIDEWALK

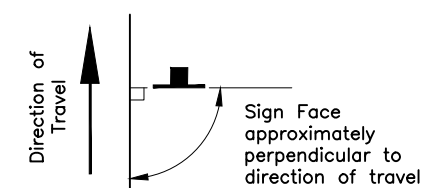
(If R/W width permits, signs should be placed behind sidewalk.)

CURB WITH SIDEWALK WITHOUT PARKWAYRAISED MEDIANS

Minimum 4' Width for Signing

SECONDARY PANEL HEIGHT

ALL TWO PANEL MOUNTING

SIGN POSITIONINGState of Alaska DOT&PF
ALASKA STANDARD PLANPOST MOUNTED SIGN
OFFSET AND HEIGHTAdopted 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: KKK Date: 7/8/2020

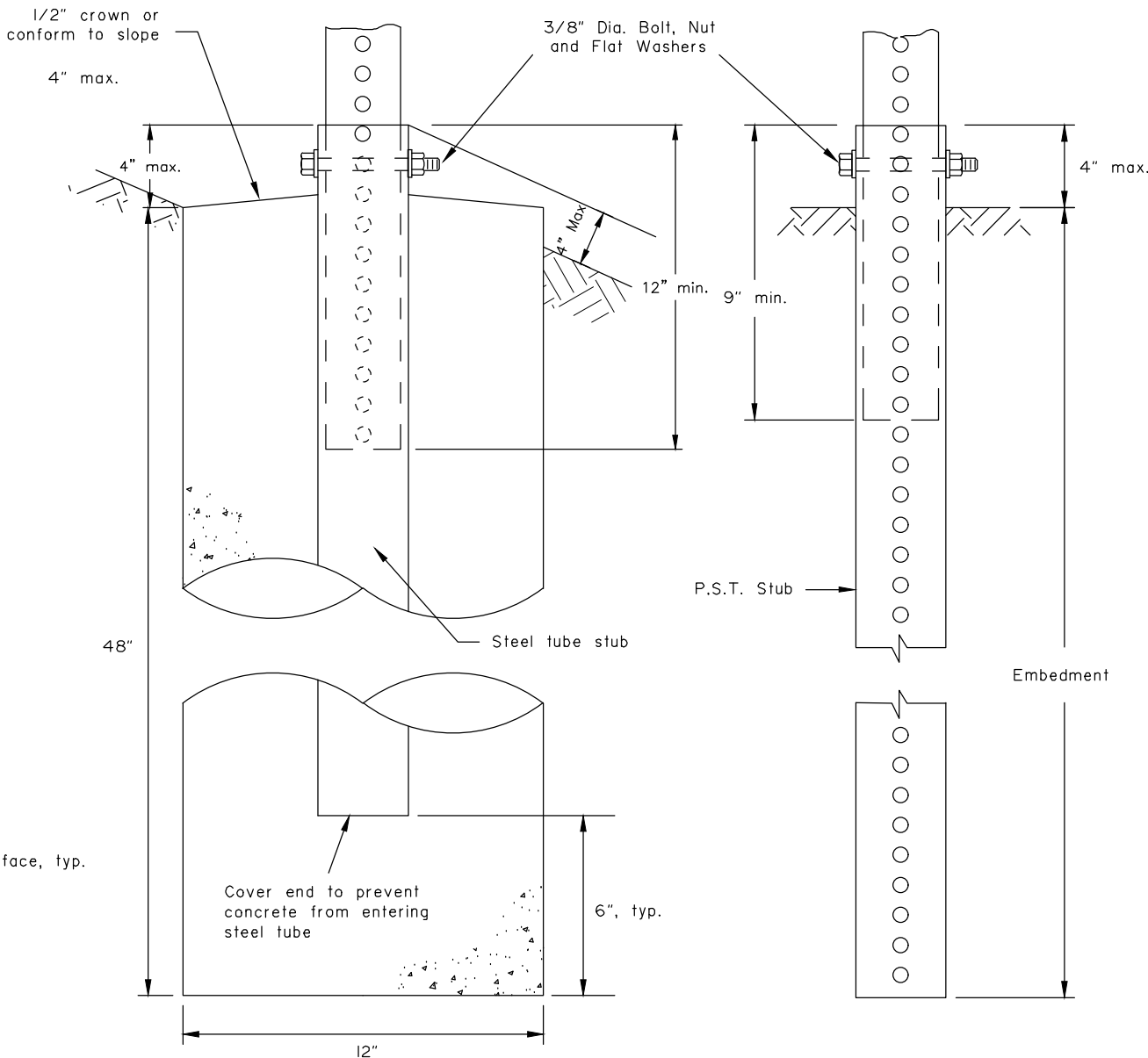
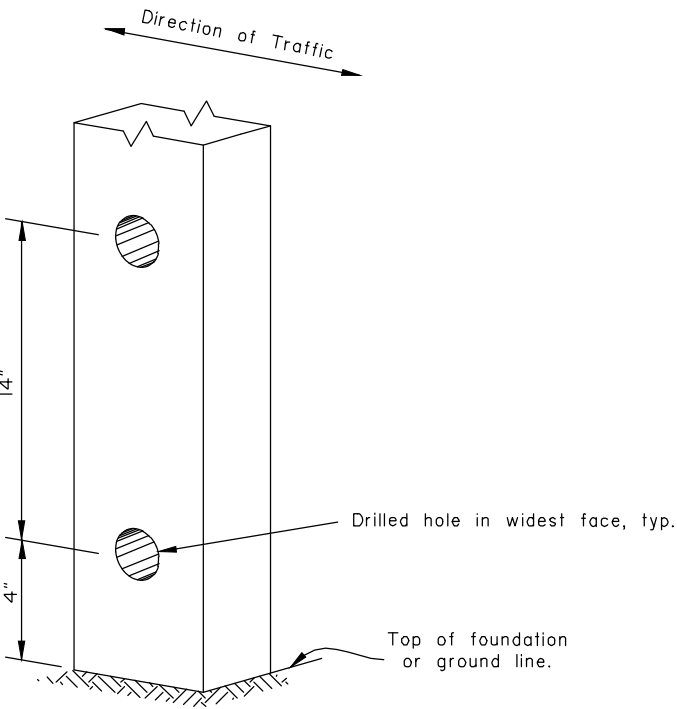
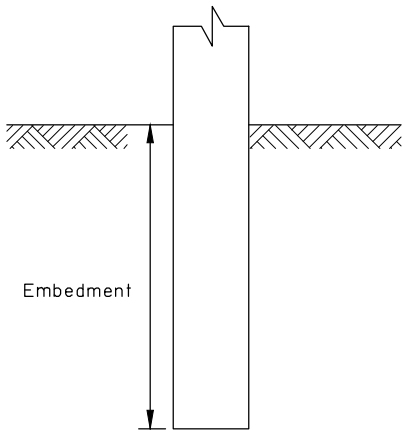
Next Code and Standards Review Date: 7/8/2030

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-I 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-3I for frangible couplings, hinges, and foundations for tube and W-shape sign supports.



SLEEVE TYPE
CONCRETE FOUNDATION

SLEEVE TYPE*
SOIL EMBEDMENT

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

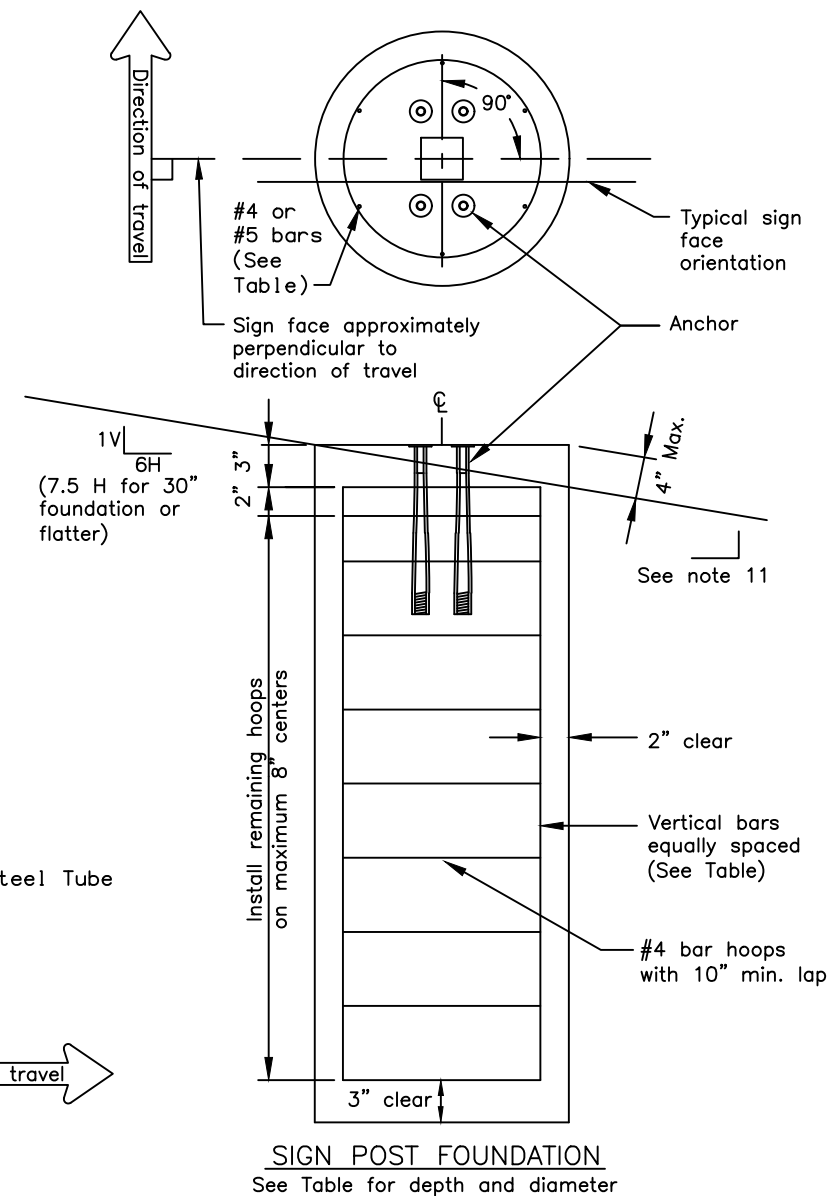
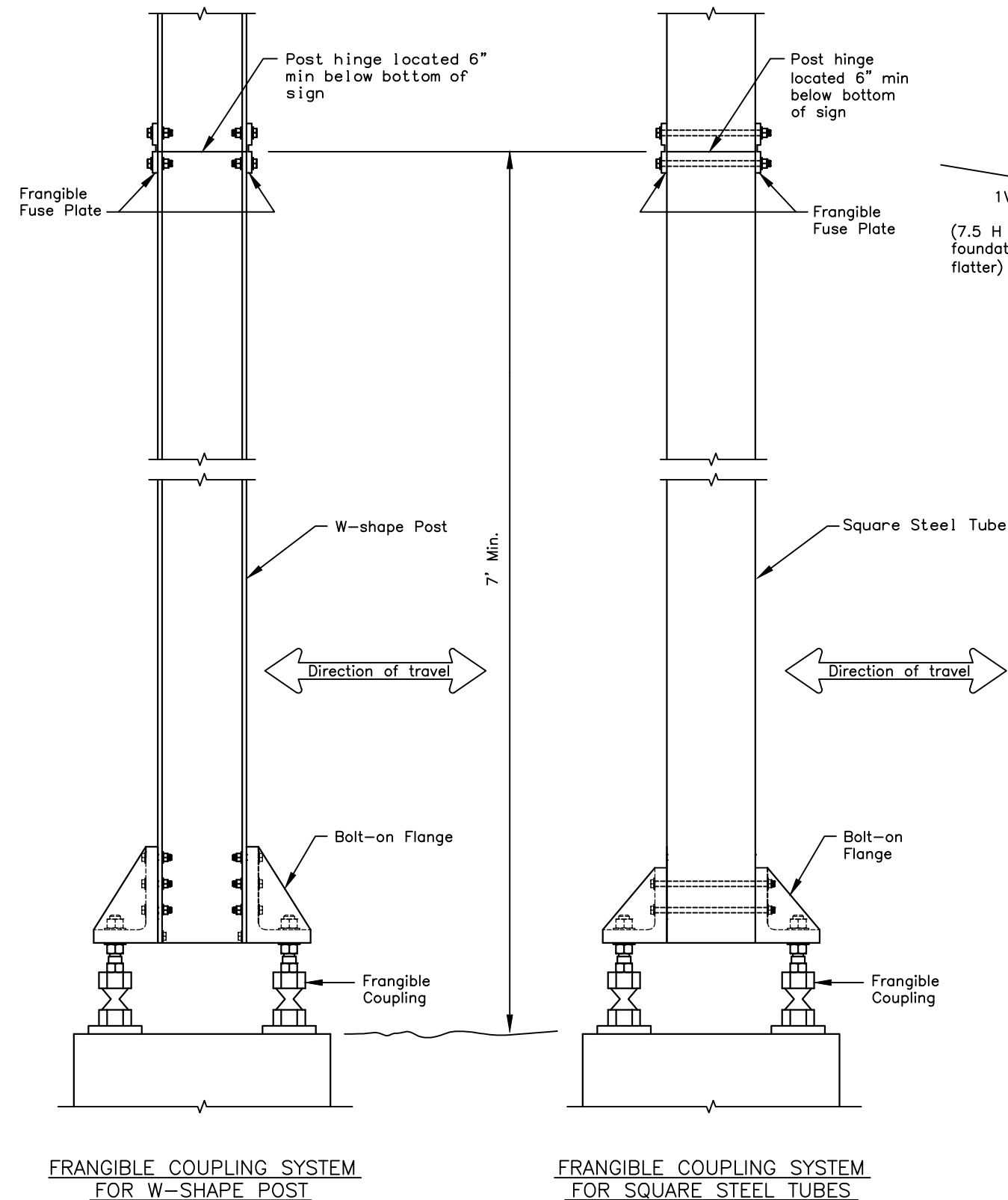
Adopted as an Alaska
Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

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

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



POST SIZE & TYPE	FOUNDATION *			REINFORCEMENT					
	DIA.	MIN. DEPTH	CY ³ CONC.	VERTICAL BARS		HOOPS			
				QTY	SIZE	LGTH.	QTY	SIZE	DIA
2 1 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"

* 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
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4/07/2025, 9:40 AM

Overview

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Date Revised:

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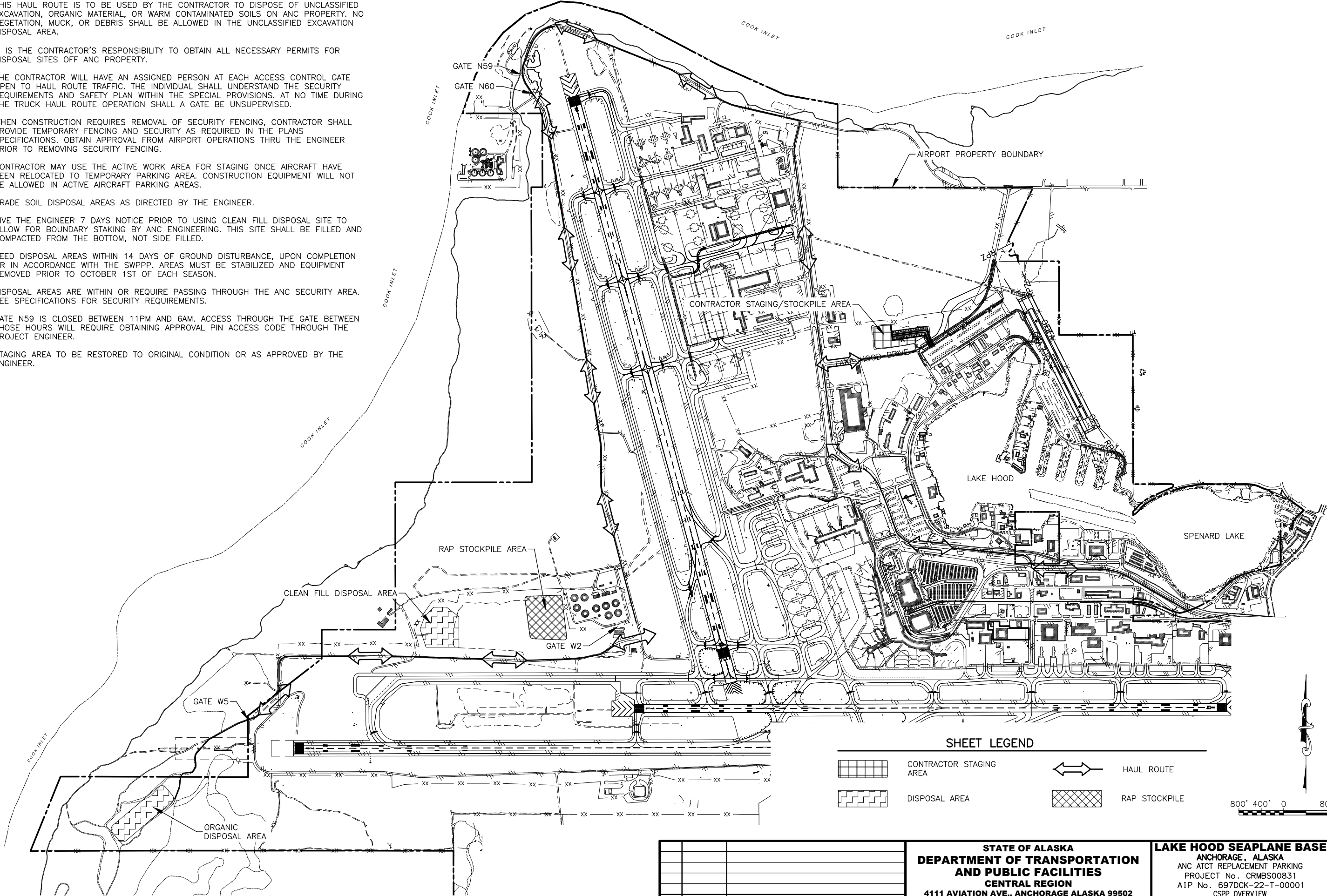
Designed By: TRI

Drawn By: RUB

Checked By: TRI

SHEET NOTES:

1. THIS HAUL ROUTE IS TO BE USED BY THE CONTRACTOR TO DISPOSE OF UNCLASSIFIED EXCAVATION, ORGANIC MATERIAL, OR WARM CONTAMINATED SOILS ON ANC PROPERTY. NO VEGETATION, MUCK, OR DEBRIS SHALL BE ALLOWED IN THE UNCLASSIFIED EXCAVATION DISPOSAL AREA.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS FOR DISPOSAL SITES OFF ANC PROPERTY.
3. THE CONTRACTOR WILL HAVE AN ASSIGNED PERSON AT EACH ACCESS CONTROL GATE OPEN TO HAUL ROUTE TRAFFIC. THE INDIVIDUAL SHALL UNDERSTAND THE SECURITY REQUIREMENTS AND SAFETY PLAN WITHIN THE SPECIAL PROVISIONS. AT NO TIME DURING THE TRUCK HAUL ROUTE OPERATION SHALL A GATE BE UNSUPERVISED.
4. WHEN CONSTRUCTION REQUIRES REMOVAL OF SECURITY FENCING, CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND SECURITY AS REQUIRED IN THE PLANS SPECIFICATIONS. OBTAIN APPROVAL FROM AIRPORT OPERATIONS THRU THE ENGINEER PRIOR TO REMOVING SECURITY FENCING.
5. CONTRACTOR MAY USE THE ACTIVE WORK AREA FOR STAGING ONCE AIRCRAFT HAVE BEEN RELOCATED TO TEMPORARY PARKING AREA. CONSTRUCTION EQUIPMENT WILL NOT BE ALLOWED IN ACTIVE AIRCRAFT PARKING AREAS.
6. GRADE SOIL DISPOSAL AREAS AS DIRECTED BY THE ENGINEER.
7. GIVE THE ENGINEER 7 DAYS NOTICE PRIOR TO USING CLEAN FILL DISPOSAL SITE TO ALLOW FOR BOUNDARY STAKING BY ANC ENGINEERING. THIS SITE SHALL BE FILLED AND COMPACTED FROM THE BOTTOM, NOT SIDE FILLED.
8. SEED DISPOSAL AREAS WITHIN 14 DAYS OF GROUND DISTURBANCE, UPON COMPLETION OR IN ACCORDANCE WITH THE SWPPP. AREAS MUST BE STABILIZED AND EQUIPMENT REMOVED PRIOR TO OCTOBER 1ST OF EACH SEASON.
9. DISPOSAL AREAS ARE WITHIN OR REQUIRE PASSING THROUGH THE ANC SECURITY AREA. SEE SPECIFICATIONS FOR SECURITY REQUIREMENTS.
10. GATE N59 IS CLOSED BETWEEN 11PM AND 6AM. ACCESS THROUGH THE GATE BETWEEN THOSE HOURS WILL REQUIRE OBTAINING APPROVAL PIN ACCESS CODE THROUGH THE PROJECT ENGINEER.
11. STAGING AREA TO BE RESTORED TO ORIGINAL CONDITION OR AS APPROVED BY THE ENGINEER.



SHEET LEGEND

- | | | | |
|--|-------------------------|--|---------------|
| | CONTRACTOR STAGING AREA | | HAUL ROUTE |
| | DISPOSAL AREA | | RAP STOCKPILE |

800' 400' 0 800' 1600'

BY	DATE	REVISION

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
AIP No. 697DCK-22-T-00001
CSPP OVERVIEW

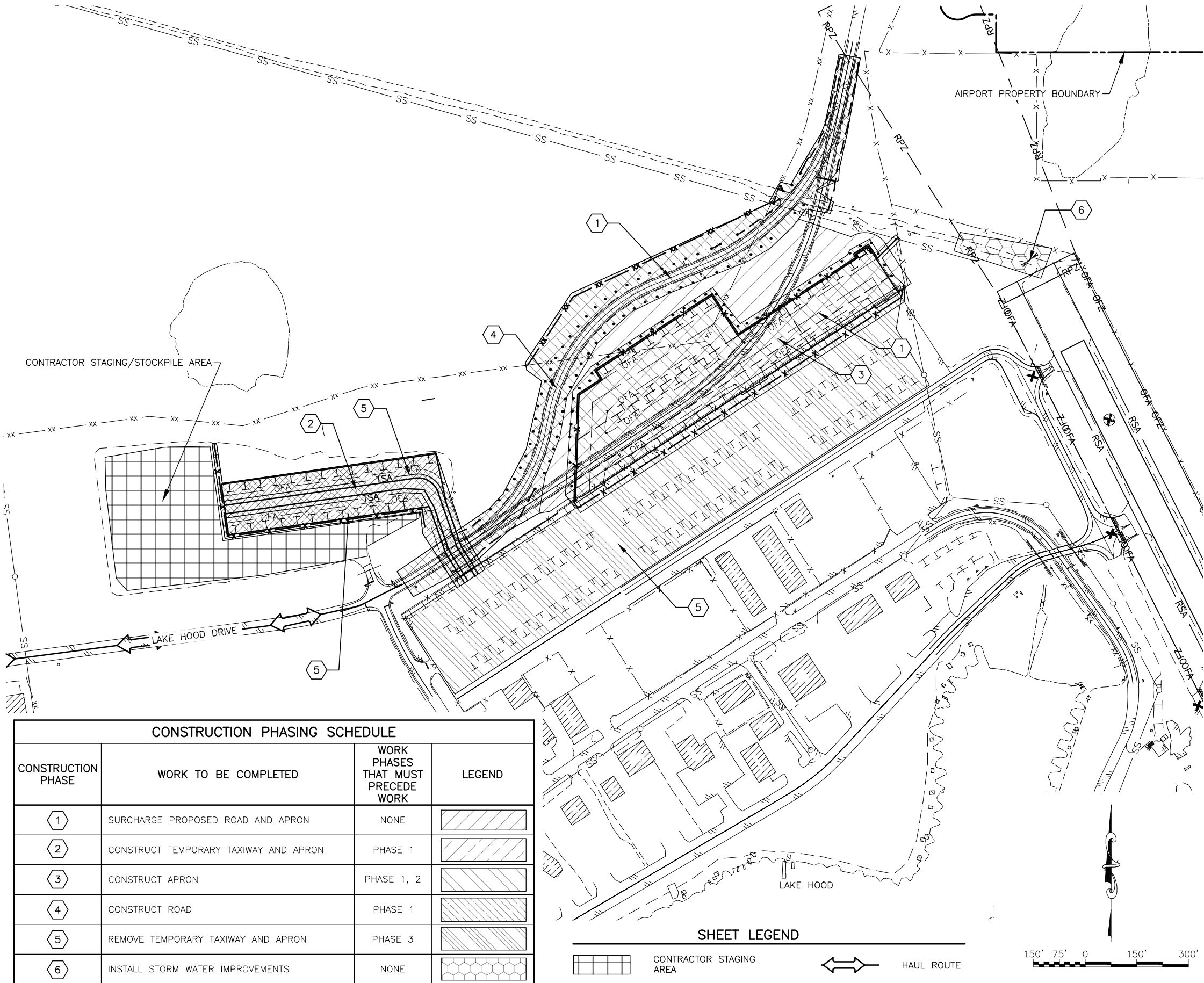
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04/07/2025
SHEET:
AC1 of AC14

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Date Revised:
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4/07/2025, 9:40 AM
Overview Detail
Designed By: TRI
Drawn By: RUB
Checked By: TRI

GENERAL SAFETY REQUIREMENTS

- 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.
- THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD), PER FAA AC 150/5370-2G, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ISSUANCE OF A NOTICE TO PROCEED. IF THE SPCD DIFFERS FROM WHAT IS SHOWN OR IF SUBSEQUENT CHANGES ARE MADE, SUBMIT A REVISION TO THE ENGINEER FOR REVIEW AND APPROVAL
- CONSTRUCTION SHALL BE PLANNED TO MINIMIZE DISTURBANCE TO AIRCRAFT OPERATIONS. COORDINATE CLOSURES WITH AIRPORT OPERATIONS THROUGH THE ENGINEER.
- ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL OPERATE A FLASHING YELLOW BEACON WHEN WORKING ON THE AIRPORT.
- SEE THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION ON ELECTRICAL PHASING AND ASSOCIATED REQUIREMENTS.
- THE CONTRACTOR MUST REPORT ANY SAFETY ISSUES TO THE ENGINEER AND AIRPORT OPERATIONS UPON DISCOVERY. THE CONTRACTOR MUST TAKE IMMEDIATE ACTION TO RESOLVE SAFETY ISSUES AS DIRECTED.
- 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.
- FOLLOW THE REQUIREMENTS FOR A DRINKING WATER PROTECTION AREA (DWPA) PER THE ACGP.
- DAMAGE TO FAA FACILITIES, INCLUDING POWER DISRUPTION, SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO FAA AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL FOLLOW LOCKOUT-TAGOUT PROCEDURES AS DEFINED IN SPECIFICATION SECTIONS L-125. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOUR NOTICE TO THE ENGINEER PRIOR TO CONNECTING TO EXISTING LIGHTING EQUIPMENT.
- THE CONTRACTOR SHALL VACATE THE STAGING AREAS AND DISPOSAL SITES BY CONTRACT COMPLETION DATE.
- WHENEVER THE PLANS OR SPECIFICATIONS CALL FOR COORDINATION, NOTIFICATION, CONTACT, OR OTHER INTERACTION WITH FAA, TSA, AIRPORT MANAGEMENT, MAINTENANCE AND OPERATIONS, AIR CARRIERS, AIRPORT TENANTS, AIRPORT USERS, ANY LOCAL, STATE, OR FEDERAL AGENCY, GROUP, OR ASSOCIATION, OR THE GENERAL PUBLIC, SUCH ACTIVITY SHALL BE DONE THROUGH, IN THE PRESENCE OF, OR WITH THE WRITTEN APPROVAL OF THE ENGINEER, ALLOW SUFFICIENT TIME FOR COORDINATION AND APPROVALS WITHIN PROPOSED WORK SCHEDULES.
- WHEN THE WORK IS COMPLETED, THE CONTRACTOR, THROUGH THE ENGINEER, SHALL NOTIFY THE AIRPORT MANAGER THE WORK WHICH NEEDED A NOTAM HAS BEEN COMPLETED AND THE NOTAM CAN BE CANCELED.
- PROVIDE AN ACCESS PLAN FOR APPROVAL BY THE ENGINEER. APPROVAL OF ACCESS PLAN IS REQUIRED PRIOR TO BEGINNING OF WORK. ACCESS PLAN SHALL INCLUDE, BUT IS NOT LIMITED TO, SCHEDULING WORK, SEPARATION OF AIRCRAFT AND PASSENGERS FROM ACTIVE CONSTRUCTION, TRAFFIC CONTROL DEVICES REQUIRED, AND HAZARD MARKER BARRIER LOCATIONS. SEE GCP-80 AND APPENDIX C FOR DETAILS.
- THE PROJECT WILL REQUIRE CLOSURE OF RW 14/32. COORDINATE THROUGH THE ENGINEER PRIOR TO OPENING OR CLOSING AREAS TO AIRCRAFT OPERATIONS. ALLOW FOR ISSUANCE OF NOTAMS BY AIRPORT MANAGEMENT TO KEEP ALL AIRPORT USERS INFORMED OF CLOSED AREAS AND APRON, TW, AND RW STATUS.
- RW AND TW CLOSURES CAN BE PROPOSED AND PUT INTO AFFECT ONLY WITH THE APPROVAL OF THE ENGINEER. TEMPORARY CLOSURES OF RW 14/32 IS ANTICIPATED FOR REMOVAL AND CONSTRUCTION OF STORM DRAIN SYSTEM.
- PROVIDE WEEKLY NOTIFICATIONS OF ACTIVE AIRPORT AREAS AND CONSTRUCTION ACTIVITIES TO THE CONTACTS LISTED IN THE CONSTRUCTION SAFETY AND PHASING PLAN AND/OR SPECIFICATIONS. CARRY OUT CONTINUING COORDINATION THROUGH THE ENGINEER USING WEEKLY BRIEFINGS WITH AIRPORT OPERATIONS, AIRPORT MAINTENANCE, AIRPORT RESCUE AND FIRE FIGHTING (ARFF) PERSONNEL, AND AIRPORT USERS TO KEEP EVERYONE AWARE OF THE STATUS AND CHANGES OF AIRPORT SURFACES IN RELATION TO GROUND TRAFFIC. PROVIDE DETAILED DRAWINGS INDICATING TRAFFIC ROUTES FOR GROUND TRAFFIC. INDICATE CLOSED AREAS AND PROVIDE UPDATED DRAWINGS AS CONSTRUCTION PROCEEDS.
- PLACE HAZARD MARKER BARRIERS WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER FOR EACH PHASE. HAZARD MARKER BARRIERS ARE SHOWN AT APPROXIMATE LOCATIONS. ADDITIONAL LOCATIONS OR ADJUSTMENTS MAY BE REQUIRED. PLACE HAZARD MARKER BARRIERS IN ACCORDANCE WITH SPECIFICATIONS ITEM P-670, THE CSPP, AND AS APPROVED BY THE ENGINEER. THE ENGINEER MAY DIRECT THE PLACEMENT OF ADDITIONAL BARRIERS AS DEEMED NECESSARY. MONITOR HAZARD MARKER BARRIERS FREQUENTLY. CORRECT DEFICIENCIES IMMEDIATELY.
- CLEAR EQUIPMENT FROM WORK AREAS WHEN REQUESTED BY THE ENGINEER. NO EQUIPMENT OR MATERIAL STOCKPILES MAY REMAIN IN CRITICAL AREAS; RW OBJECT FREE AREAS; TW OBJECT FREE AREAS; OR ON CLOSED RW, TW, OR APRONS DURING NON-WORK HOURS.



BY	DATE	REVISION

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
AIP No. 697DCK-22-T-00001
CSPP OVERVIEW DETAIL

DATE:
04/07/2025

SHEET:
AC2 of AC14

Date Revised: 4/07/2025, 9:40 AM

Layout Name: Detour

File Path and Name: W:\Projects\AIA Lake Hood\ANC ATCT Replacement Parking_00831\03D\Planset\00831-ANC-CSPP.dwg

Designed By: TRI

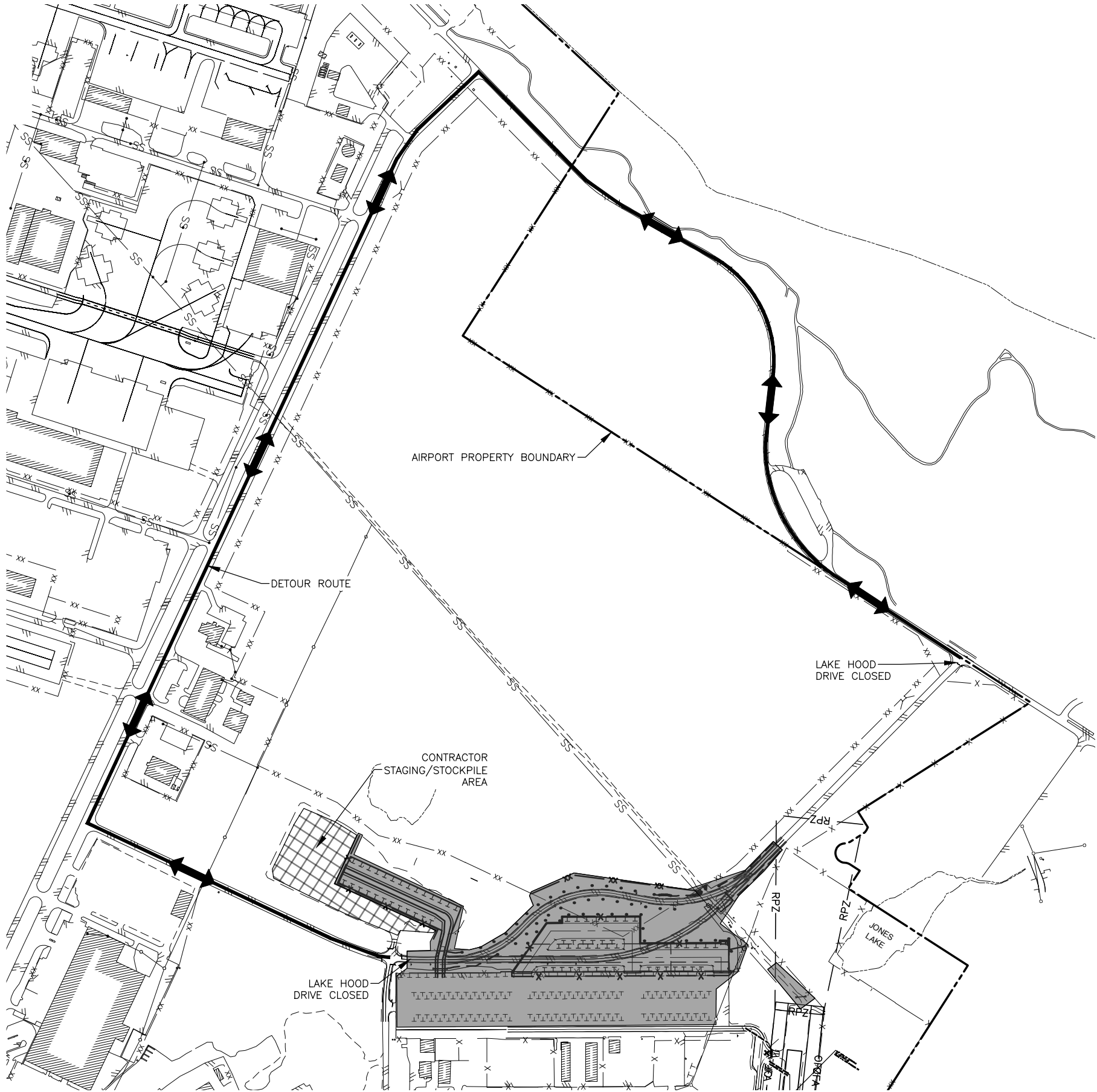
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Checked By: TRI

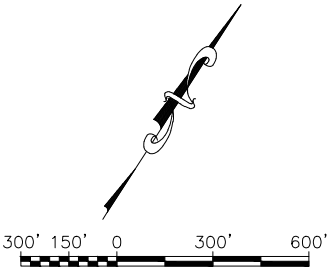
LEGEND

WORK AREA

DETOUR ROUTE



- NOTES:
- DETOUR ROUTE MUST BE IMPLEMENTED PRIOR TO THE CLOSING OF LAKE HOOD DRIVE. SEE GCP SUBSECTION 70.08 FOR PUBLIC NOTICE REQUIREMENTS.
 - WHEN REQUIRED FOR PHASE 1 CONSTRUCTION, IMPLEMENT DETOUR ROUTE, CONSIDERING NECESSARY PERMITS OR APPROVALS.
 - PROVIDE CLEAR SIGNAGE, MARKINGS, AND ANY REQUIRED TRAFFIC CONTROL MEASURES TO GUIDE MOTORISTS AND PEDESTRIANS ALONG THE DETOUR ROUTE.
 - MONITOR AND MAINTAIN THE DETOUR ROUTE THROUGHOUT THE PROJECT'S DURATION, ADJUSTING AS NECESSARY TO ADDRESS ANY ISSUES OR CHANGES IN CONSTRUCTION CONDITIONS.



			<div>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590</div>	<div>LAKE HOOD SEAPLANE BASE ANCHORAGE, ALASKA ANC ATCT REPLACEMENT PARKING PROJECT No. CRMBS00831 AIP No. 697DCK-22-T-00001 DETOUR ROUTE</div>	DATE:
					04/07/2025
					SHEET:
					AC3 of AC14
BY	DATE	REVISION			

4/07/2025, 9:40 AM

Phase 1

W:\Projects\AA Lake Hood\ANC ATCT Replacement Parking_00831\Cv3d\Planset\00831-ANC-CSPP.dwg

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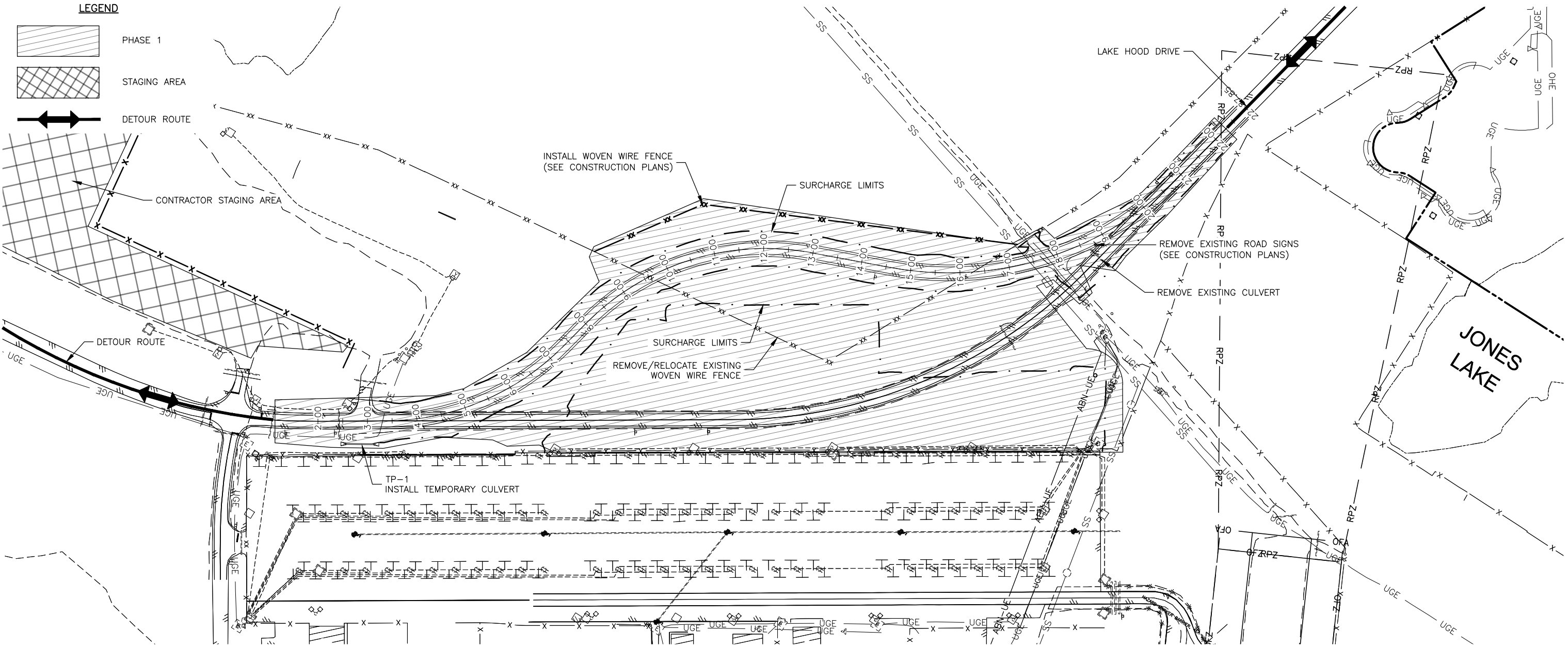
Drawn By: RUB

Checked By: TRI

Date Revised:

Layout Name:

File Path and Name:



COMPLETE THE FOLLOWING PRIOR TO PHASE 1 CONSTRUCTION:

- INSTALL BEST MANAGEMENT PRACTICES (BMPs) PER CONTRACTORS APPROVED SWPPP AS DEFINED IN CONTRACT SPECIFICATION P-641

COMPLETE THE FOLLOWING DURING PHASE 1 CONSTRUCTION:

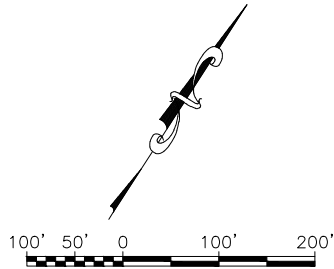
- REMOVE AND RELOCATE WOVEN WIRE FENCE
- REMOVE EXISTING ROAD SIGNS
- REMOVE EXISTING CULVERT
- INSTALL TEMPORARY CULVERT AND DRAINAGE IMPROVEMENTS
- REMOVE EXISTING PAVEMENT FROM ROAD

COMPLETE THE FOLLOWING AFTER PHASE 1 CONSTRUCTION:

- REMOVE BMP'S UNRELATED TO SURCHARGE WORK
- SURCHARGE ROAD AND APRON

NOTES:

- CONTRACTOR SHALL MAINTAIN THE EXISTING DRAINAGE DITCH ALONG THE APRON AND LAKE HOOD DRIVE DURING PHASE 1 TO MANAGE STORMWATER RUNOFF.
- IMPORTED MATERIAL MAY ONLY BE STAGED IN THE CONTRACTOR STAGING AREA AS DIRECTED BY THE ENGINEER.
- SURCHARGE TO BE PLACED IN THAWED CONDITIONS AND MAINTAINED FOR A MINIMUM OF SIX MONTHS. (SEE CONSTRUCTION PLANS).



			STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590	LAKE HOOD SEAPLANE BASE ANCHORAGE, ALASKA ANC ATCT REPLACEMENT PARKING PROJECT No. CRMBS00831 AIP No. 697DCK-22-T-00001 CSPP PHASE 1	DATE: 04/07/2025 SHEET: AC4 of AC14
BY	DATE	REVISION			

Date Revised: 4/07/2025, 9:40 AM

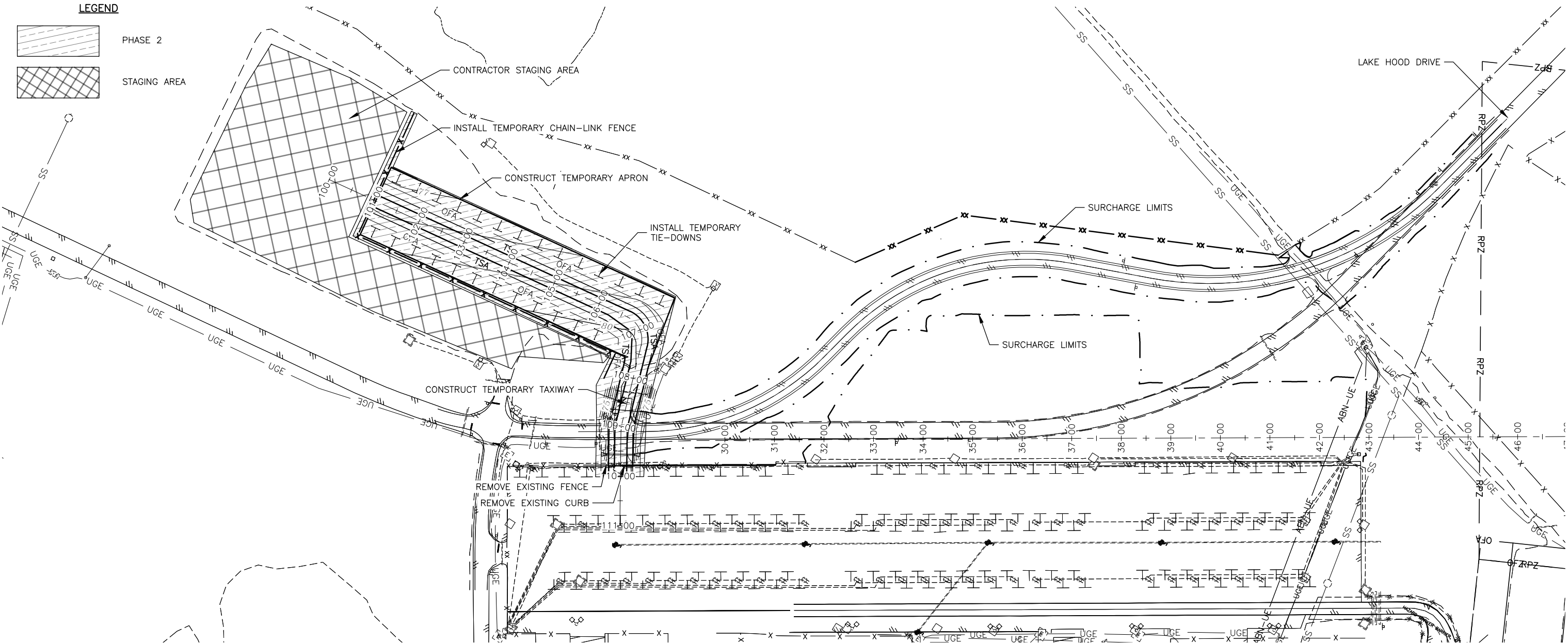
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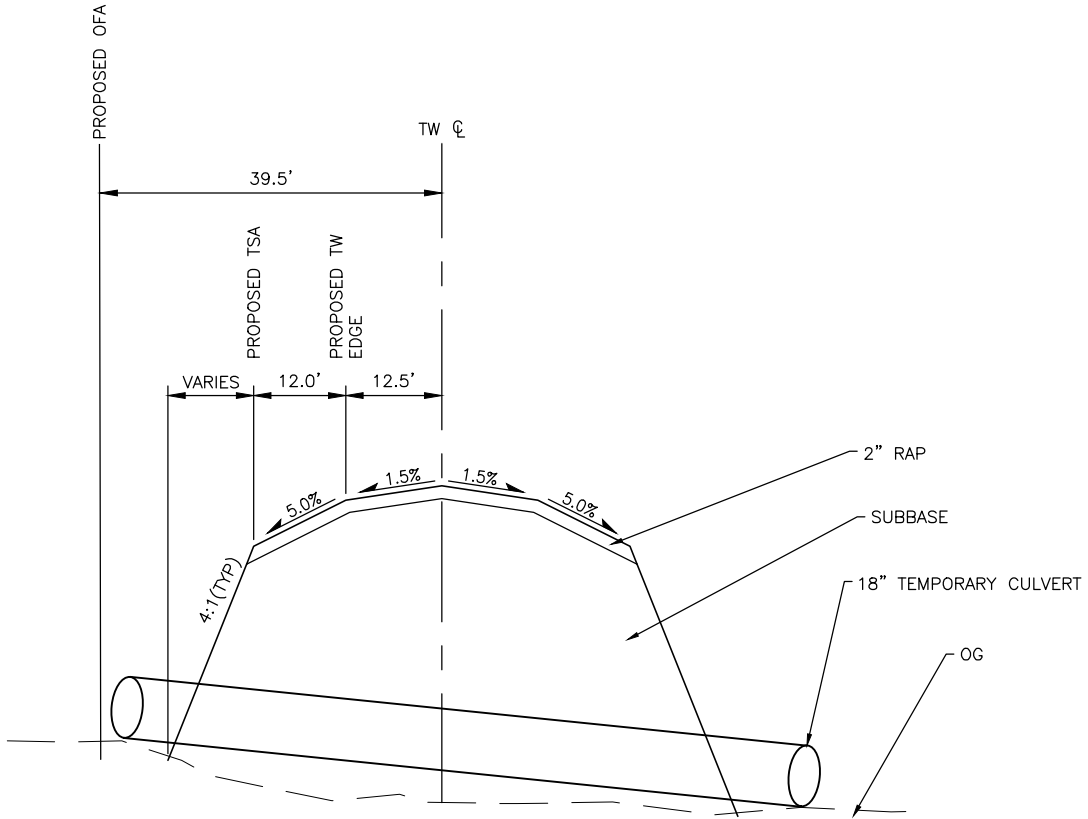
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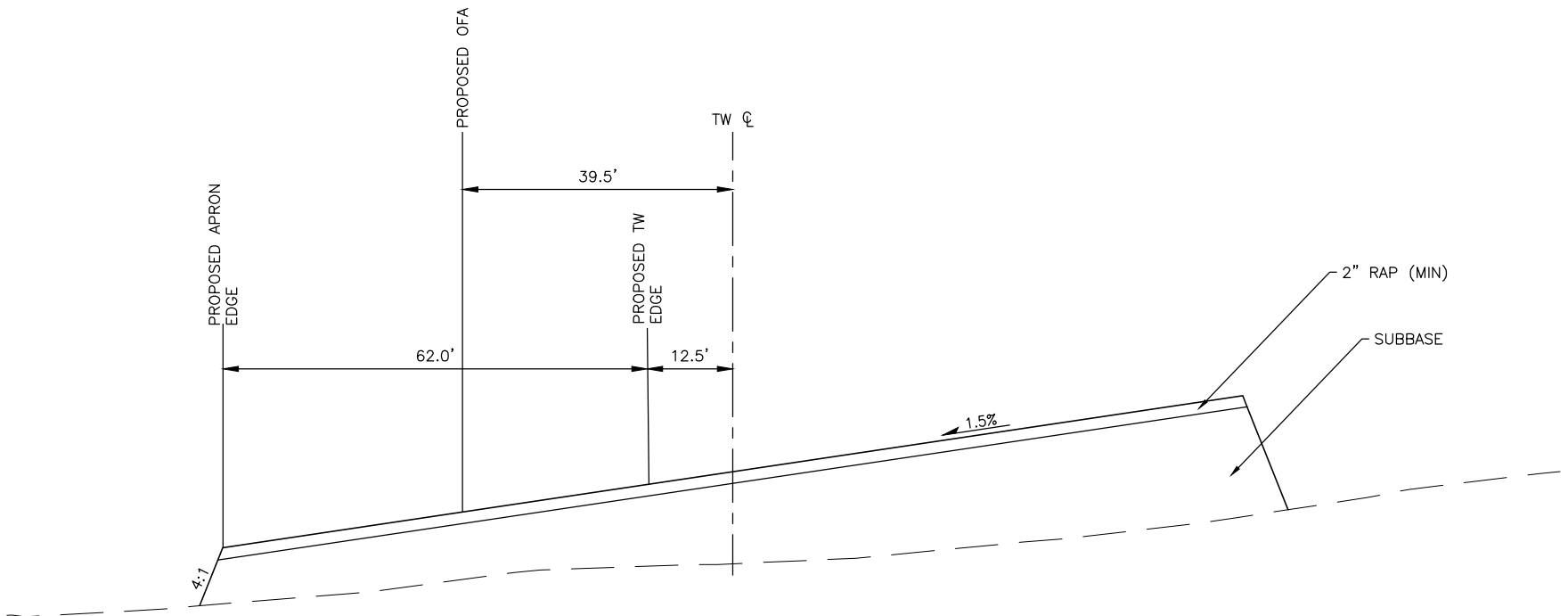
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Checked By: TRI





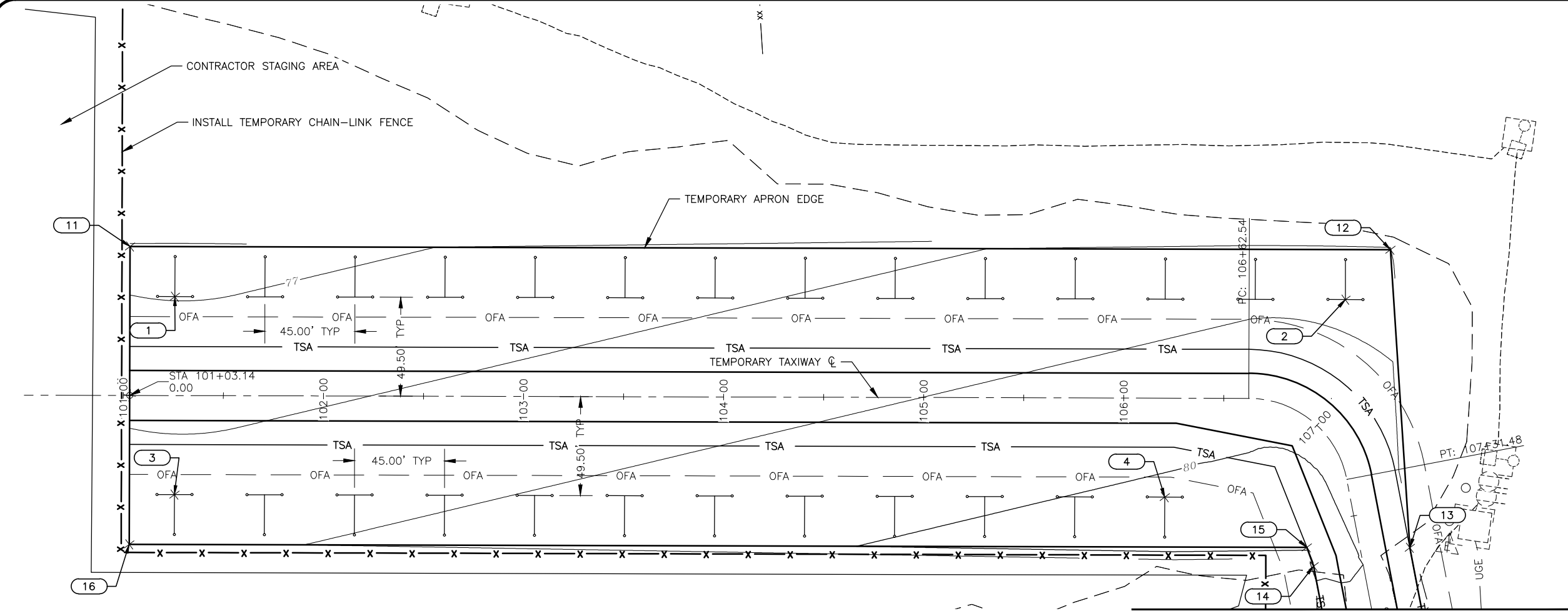
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AC6 **TEMPORARY TAXIWAY TYPICAL SECTION**
STA 107+66.16 TO 109+80.00
NOT TO SCALE



NOTES:
1. SCARIFY, GRADE, AND COMPACT EXISTING MATERIAL TO A SMOOTH, EVEN, AND UNIFORMLY COMPACTED SURFACE. REFER TO SPECIFICATION P-161. ADDITIONAL RAP MAY BE REQUIRED TO ACHIEVE A UNIFORM SURFACE AS DIRECTED BY THE ENGINEER.

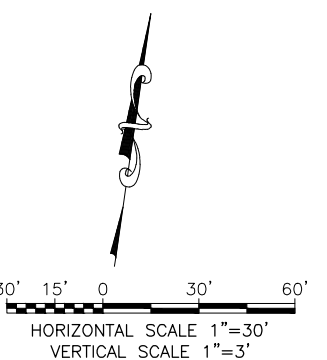
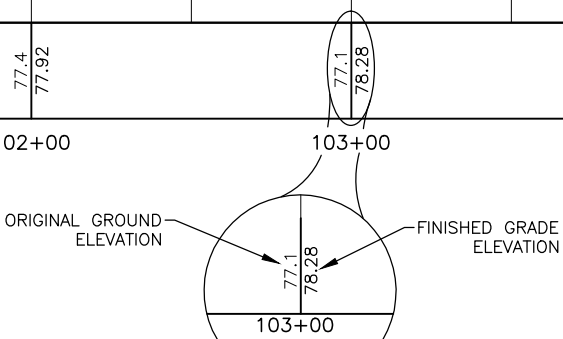
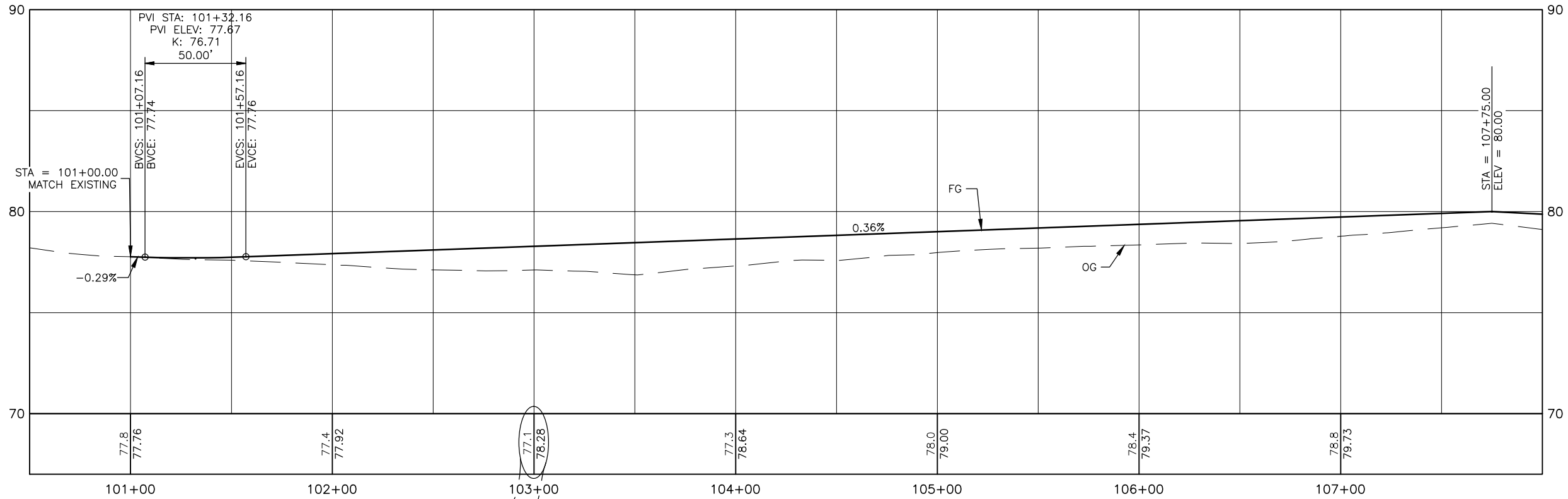
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AC6 **TEMPORARY APRON TYPICAL SECTION**
STA 101+03.14 TO 107+66.16
NOT TO SCALE

4/07/2025, 9:41 AM
Date Revised: 4/07/2025, 9:41 AM
Layout Name: TEMP APRON P&P
File Path and Name: W:\Projects\AA Lake Hood\ANC ATCT Replacement Parking_00831\Drawings\Plan\00831-ANC-CSEPP.dwg
Designed By: TRI
Drawn By: RUB
Checked By: TRI

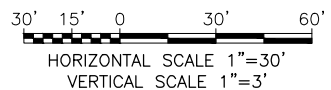
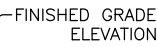


TIE-DOWN TABLE		
POINT #	STATION	OFFSET
1	101+25.64	49.50LT
2	106+85.05	60.51LT
3	101+25.64	49.50RT
4	106+20.64	49.50RT

APRON EDGE TABLE			
POINT #	STATION	OFFSET	ELEVATION
11	101+03.14	74.50LT	76.64
12	106+88.33	93.12LT	78.29
13	107+70.92	24.50LT	79.59
14	107+70.92	24.50RT	80.28
15	107+61.11	26.00RT	80.34
16	101+03.14	74.50RT	78.87



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BY	DATE	REVISION																				



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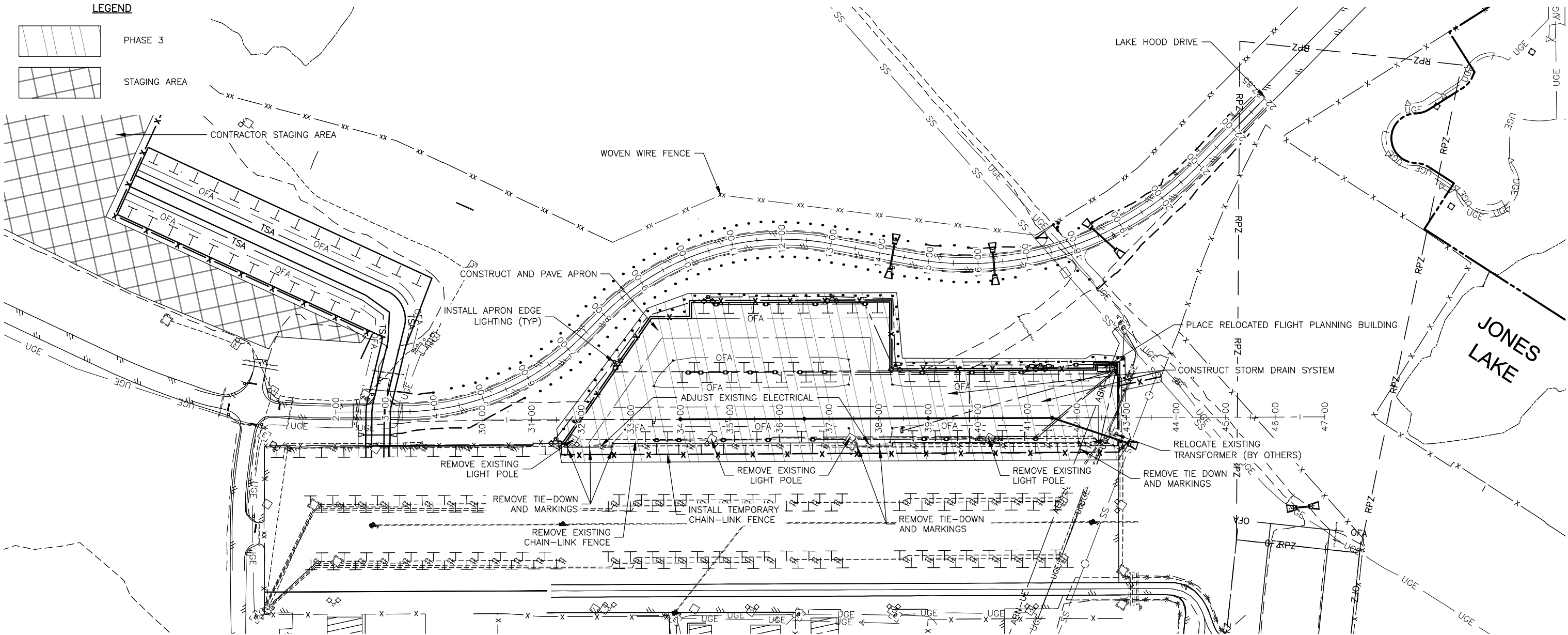
**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590**

LAKE HOOD SEAPLANE BASIN
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMB00831
AIP No. 697DCK-22-T-00001
TEMPORARY TAXIWAY
PLAN & PROFILE

DATE:
04/07/2025

SHEET:
AC8 OF AC14

4/07/2025, 9:41 AM
Phase 3
W:\Projects\AA Lake Hood\ANC ATCT Replacement Parking_00831\Civ3D\Planset\00831-ANC-CSPP.dwg
Designed By: TRI
Drawn By: RUB
Checked By: TRI



COMPLETE THE FOLLOWING PRIOR TO PHASE 3 CONSTRUCTION:

- INSTALL BMPs PER CONTRACTORS APPROVED SWPPP AS DEFINED IN CONTRACT SPECIFICATION P-641

COMPLETE THE FOLLOWING DURING PHASE 3 CONSTRUCTION:

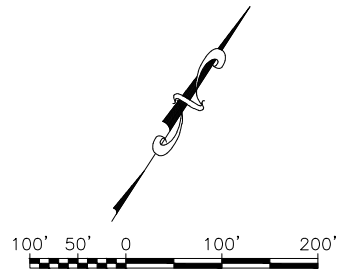
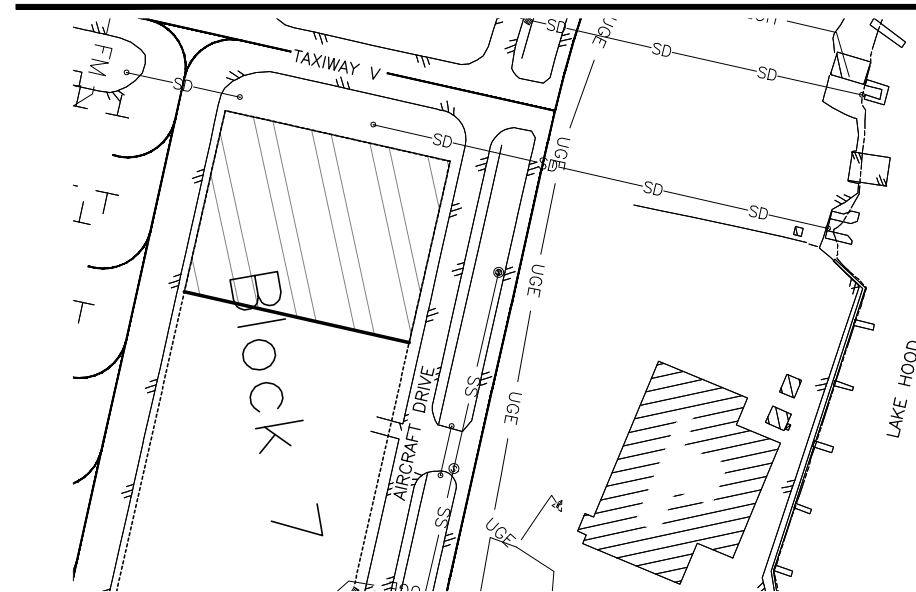
- REMOVE EXISTING TIE DOWNS AND MARKINGS
- REMOVE EXISTING APRON EDGE LIGHTING
- PERFORM EXCAVATION OF PAVEMENT WITHIN PHASE 3 LIMITS
- REMOVE EXISTING CHAIN-LINK FENCE WITHIN PHASE 3 LIMITS
- INSTALL TEMPORARY CHAIN-LINK FENCE WITHIN PHASE 3 LIMITS
- CONSTRUCT STORM DRAIN SYSTEM WITHIN PHASE 3 LIMITS
- CONSTRUCT/PAVE APRON SURFACE
- PERFORM GRADING WORK
- ADJUST UTILITIES FOR CIVIL IMPROVEMENTS
- PREPARE APRON FOR RELOCATED FLIGHT PLANNING BUILDING
- INSTALL WEATHERPROOF OUTLETS AND TIE-DOWNS
- INSTALL APRON EDGE LIGHTING
- PLACE RELOCATED FLIGHT PLANNING BUILDING
- INSTALL APRON MARKINGS WITHIN PHASE 3 LIMITS

COMPLETE THE FOLLOWING AFTER PHASE 3 CONSTRUCTION:

- REMOVE BMP'S

NOTES:

- CONSTRUCTION TRAFFIC SHALL NOT BE PERMITTED WITHIN THE ECHO APRON AREA WITH THE EXCEPTION OF THAT REQUIRED TO CONSTRUCT THE TEMPORARY SECURITY FENCE.
- ENSURE EQUIPMENT ACCESS AND ACCOMMODATION OF CONSTRUCTION NEEDS ARE MAINTAINED.
- REMOVE TEMPORARY FENCING AND BARRIERS UPON COMPLETION.

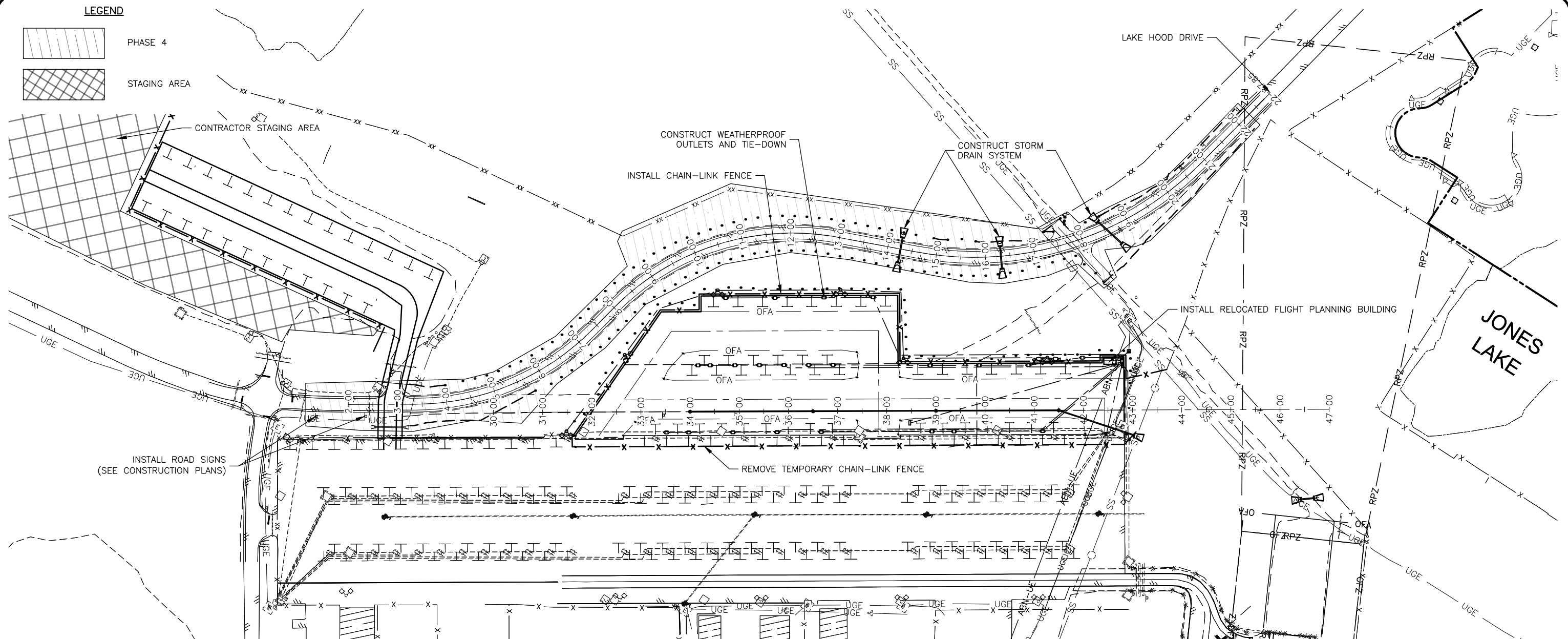


BY	DATE	REVISION

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

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMS00831
AIP No. 697DCK-22-T-00001
CSPP PHASE 3

DATE:
04/07/2025
SHEET:
AC9 of AC14



COMPLETE THE FOLLOWING PRIOR TO PHASE 4 CONSTRUCTION:

- INSTALL BMPS PER CONTRACTORS APPROVED SWPPP AS DEFINED IN CONTRACT SPECIFICATION P-641

COMPLETE THE FOLLOWING DURING PHASE 4 CONSTRUCTION:

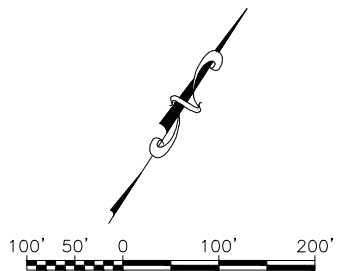
- INSTALL CHAIN-LINK FENCE WITHIN PHASE 3 LIMITS
- REMOVE TEMPORARY CHAIN-LINK FENCE WITHIN PHASE 3 LIMITS
- CONSTRUCT STORM DRAIN SYSTEM WITHIN PHASE 4 LIMITS
- CONSTRUCT LAKE HOOD DRIVE
- INSTALL ROAD SIGNS
- INSTALL ROADWAY MARKINGS
- PERFORM GRADING WORK

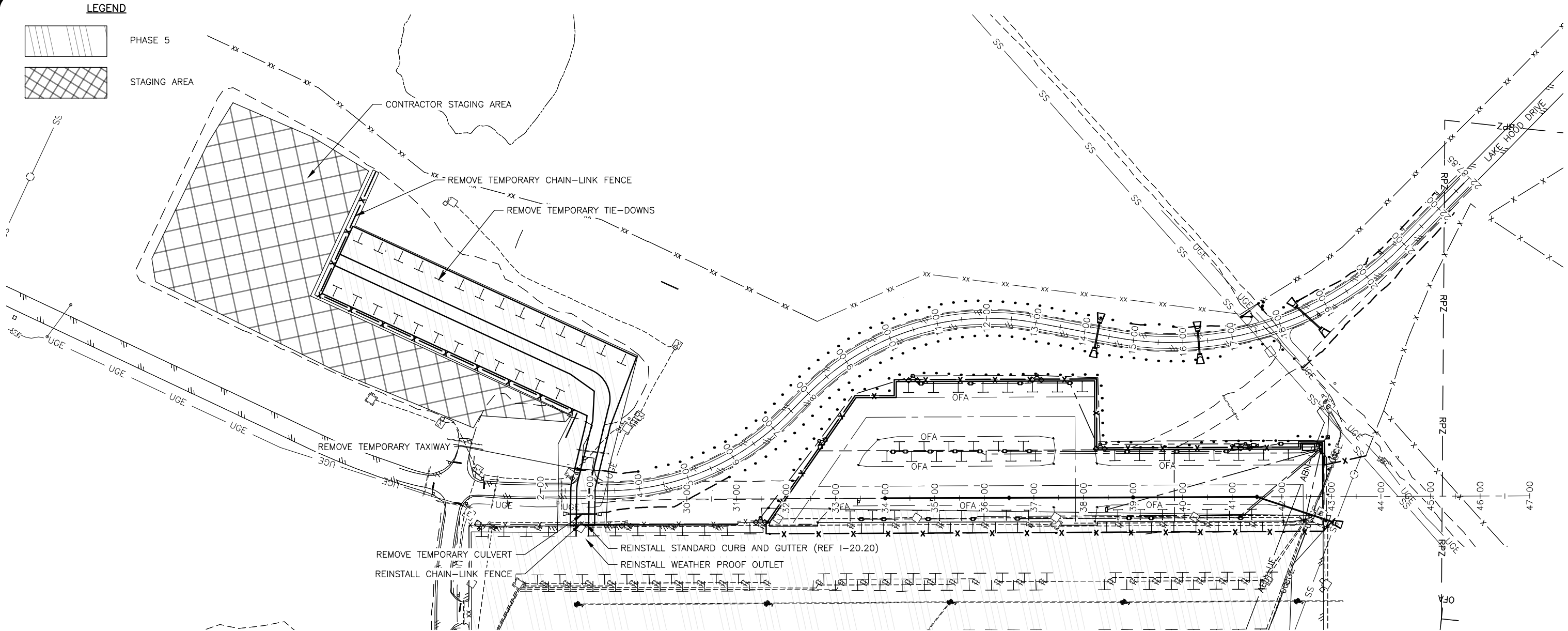
COMPLETE THE FOLLOWING AFTER PHASE 4 CONSTRUCTION:

- ENSURE PROPER GRADING, DRAINAGE, AND TOPSOIL AND SEED WORK IS MAINTAINED OR ALIGNS WITH NEW CONSTRUCTION
- REMOVE TEMPORARY CHAIN-LINK FENCE
- REMOVE BMP'S
- RELOCATE AIRCRAFT FROM TEMPORARY APRON TO PERMANENT APRON

NOTES:

1. CONSTRUCTION TRAFFIC SHALL NOT BE PERMITTED WITHIN THE ECHO APRON.

[illegible]



COMPLETE THE FOLLOWING PRIOR TO PHASE 5 CONSTRUCTION:

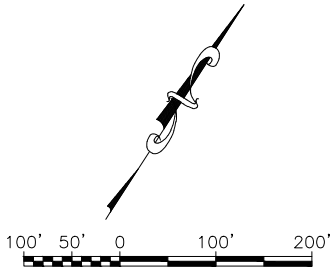
- INSTALL BMPS PER CONTRACTORS APPROVED SWPPP AS DEFINED IN CONTRACT SPECIFICATION P-641

COMPLETE THE FOLLOWING DURING PHASE 5 CONSTRUCTION:

- REMOVE TEMPORARY CHAIN-LINK FENCE WITHIN PHASE 2 LIMITS
- REMOVE TEMPORARY ACCESS WITHIN PHASE 2 LIMITS
- RE-PAVE LAKE HOOD DRIVE WITHIN PHASE 3 LIMITS
- INSTALL CHAIN-LINK FENCE AND CURB WITHIN PHASE 2 LIMITS
- REMOVE TEMPORARY TIE-DOWNS WITHIN PHASE 2 LIMITS
- REMOVE TEMPORARY TAXIWAY WITHIN PHASE 2 LIMITS
- REMOVE TEMPORARY CULVERT WITHIN PHASE 2 LIMITS
- RE-INSTALL WEATHERPROOF OUTLETS WITHIN PHASE 2 LIMITS
- INSTALL APRON EDGE LIGHTING WITHIN PHASE 2 LIMITS
- INSTALL APRON NUMBERING WITHIN PHASE 5 LIMITS

COMPLETE THE FOLLOWING AFTER PHASE 5 CONSTRUCTION:

- ENSURE PROPER GRADING, DRAINAGE, AND TOPSOIL AND SEED WORK IS MAINTAINED OR ALIGNS WITH NEW CONSTRUCTION
- REMOVE BMPS
- REMOVE LAKE HOOD DRIVE DETOUR



BY	DATE	REVISION

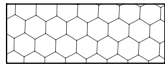
STATE OF ALASKA
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AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
PHONE (907) 269-0590

LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
AIP No. 697DCK-22-T-00001
CSPP PHASE 5

DATE:
04/07/2025
SHEET:
AC11 of AC14

Date Revised: 4/07/2025, 9:42 AM
Layout Name: Phase 6
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Designed By: TRI
Drawn By: RUB
Checked By: TRI

LEGEND



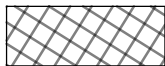
PHASE 6



ILLUMINATED RUNWAY
CLOSURE MARKER



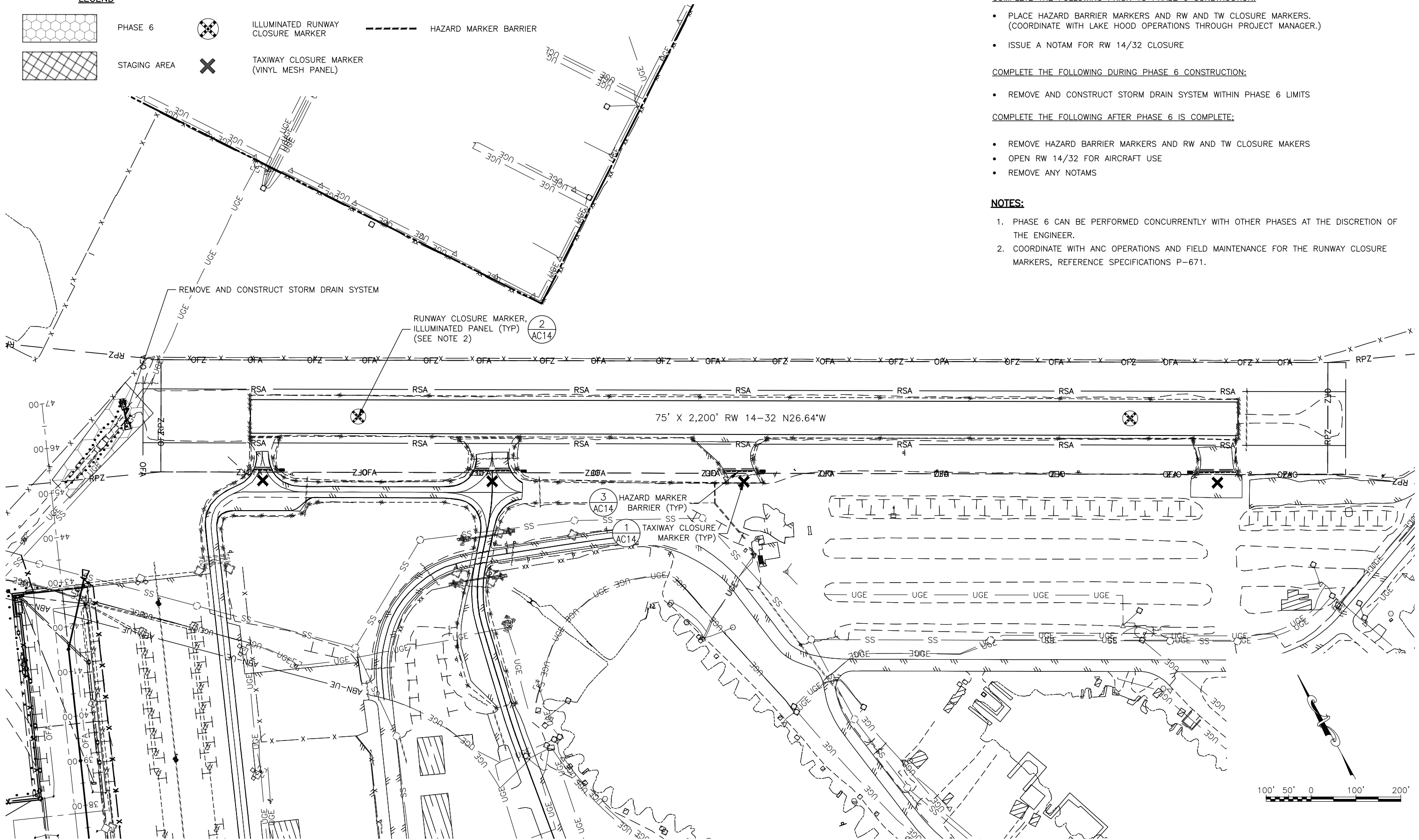
HAZARD MARKER BARRIER



STAGING AREA



TAXIWAY CLOSURE MARKER
(VINYL MESH PANEL)



COMPLETE THE FOLLOWING PRIOR TO PHASE 6 CONSTRUCTION:

- PLACE HAZARD BARRIER MARKERS AND RW AND TW CLOSURE MARKERS.
(COORDINATE WITH LAKE HOOD OPERATIONS THROUGH PROJECT MANAGER.)
- ISSUE A NOTAM FOR RW 14/32 CLOSURE

COMPLETE THE FOLLOWING DURING PHASE 6 CONSTRUCTION:

- REMOVE AND CONSTRUCT STORM DRAIN SYSTEM WITHIN PHASE 6 LIMITS

COMPLETE THE FOLLOWING AFTER PHASE 6 IS COMPLETE:

- REMOVE HAZARD BARRIER MARKERS AND RW AND TW CLOSURE MAKERS
- OPEN RW 14/32 FOR AIRCRAFT USE
- REMOVE ANY NOTAMS

NOTES:

1. PHASE 6 CAN BE PERFORMED CONCURRENTLY WITH OTHER PHASES AT THE DISCRETION OF THE ENGINEER.
2. COORDINATE WITH ANC OPERATIONS AND FIELD MAINTENANCE FOR THE RUNWAY CLOSURE MARKERS, REFERENCE SPECIFICATIONS P-671.



BY	DATE	REVISION

STATE OF ALASKA
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LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
AIP No. 697DCK-22-T-00001
CSPF PHASE 6

DATE:
04/07/2025
SHEET:
AC12 of AC14

Date Revised: 4/07/2025, 9:42 AM

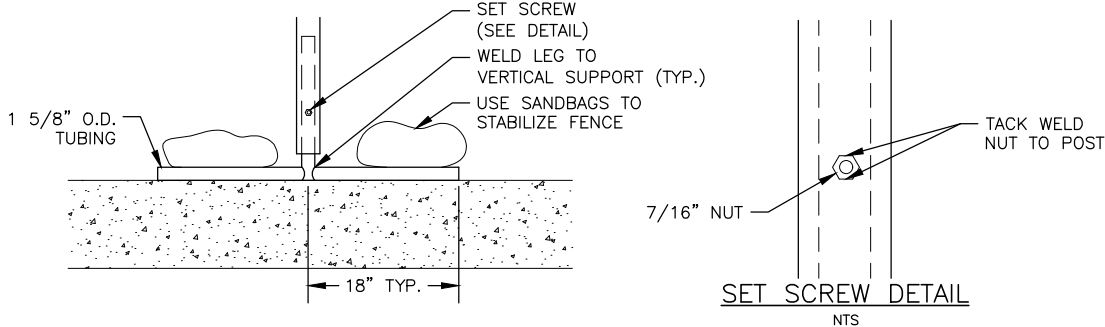
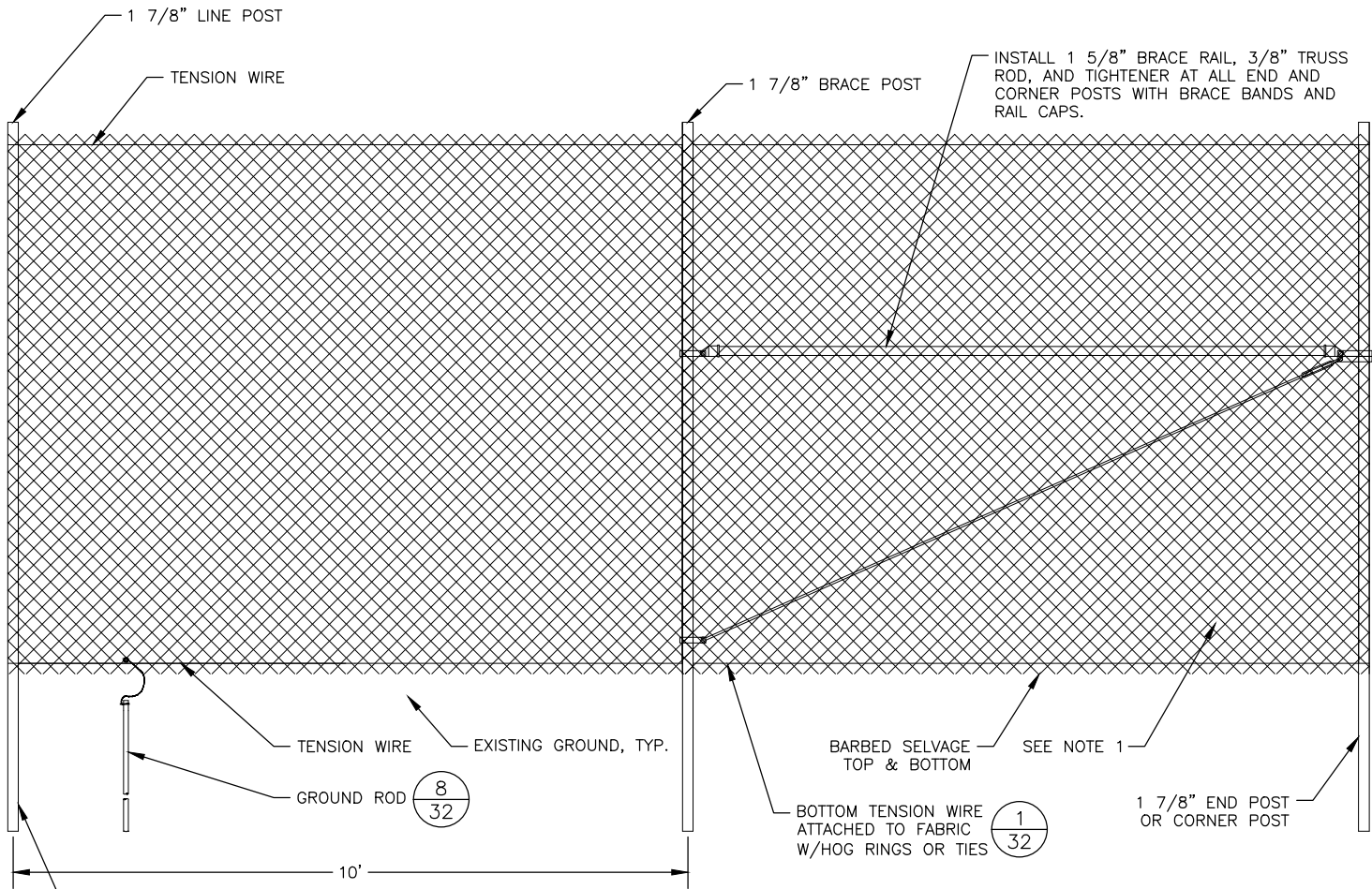
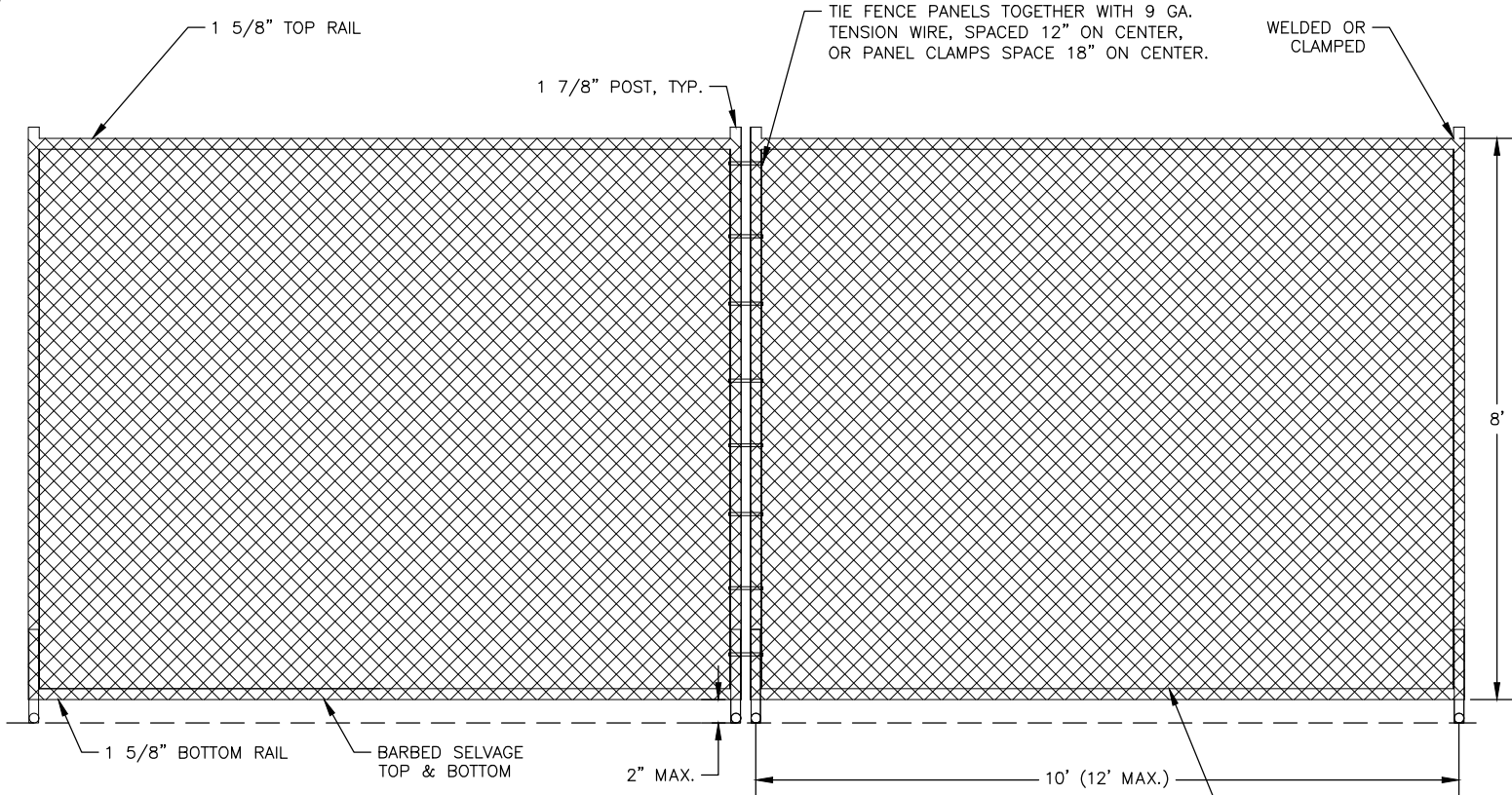
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Designed By: TRI

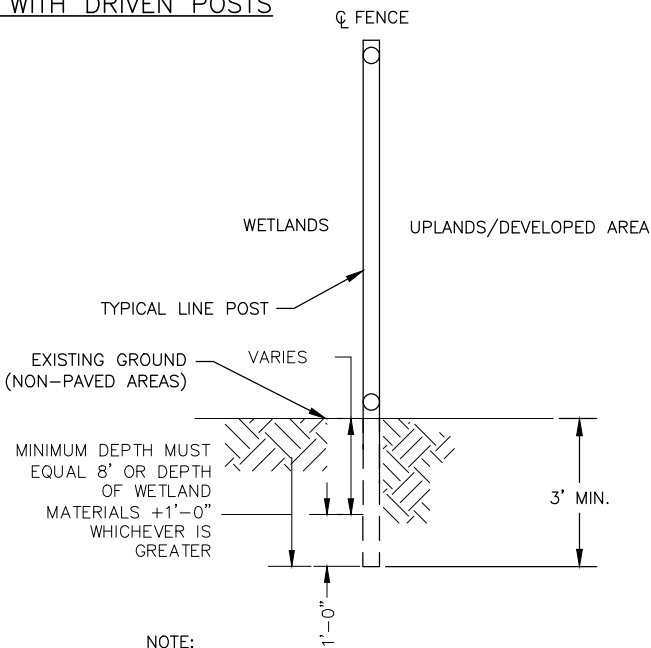
Drawn By: RJB

Checked By: TRI



TYPICAL PANEL SUPPORT
NTS

TYPICAL TEMPORARY FENCE WITH DRIVEN POSTS
NTS



TYPICAL LINE POST DETAIL
NTS

GENERAL NOTES:

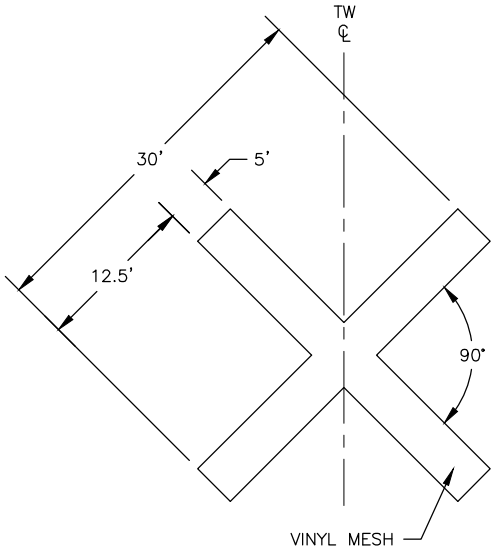
1. INSTALL FENCE FABRIC TAUT ON PANELS. SECURE FABRIC TO POSTS AND RAILS EVERY 12".
2. PROTECT WELDS AND AREAS OF GALVANIZATION DAMAGE BY FABRICATION BY HOT DIP GALVANIZING PANELS AFTER FABRICATION, OR APPLYING HIGH ZINC DUST CONTENT PAINT PER ASTM A-780 TO THE AFFECTED AREAS.
3. SEE SHEET 32 FOR FENCING DETAILS.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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CENTRAL REGION
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LAKE HOOD SEAPLANE BASE
ANCHORAGE, ALASKA
ANC ATCT REPLACEMENT PARKING
PROJECT No. CRMBS00831
AIP No. 697DCK-22-T-00001
TEMPORARY FENCING DETAILS

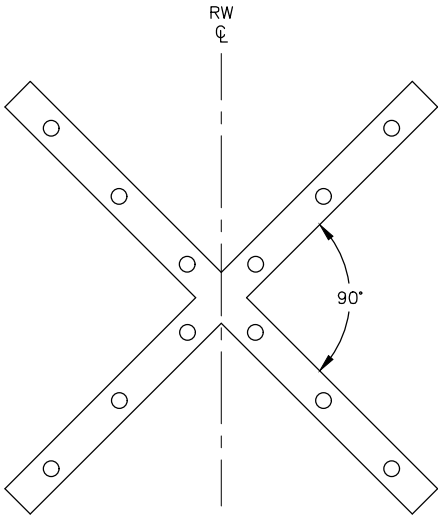
DATE:
04/07/2025
SHEET:
AC13 of AC14



NOTES:

1. TW CLOSURE MARKERS WILL BE YELLOW.
2. INSTALL TW CLOSURE MARKERS ALONG THE CENTERLINE AT THE ENTRANCE TO THE CLOSED TW.
3. TW CLOSURE MARKERS ARE PAID UNDER ITEM P671.040.0000

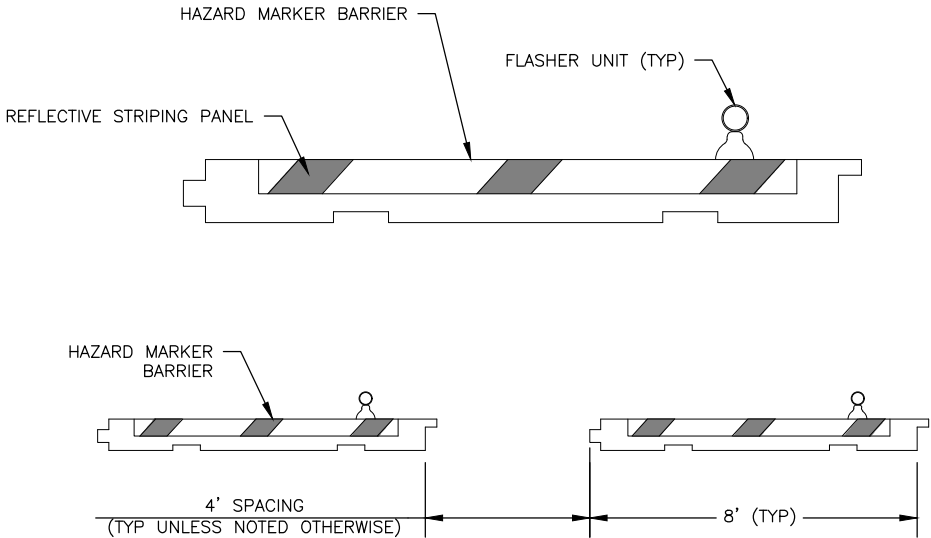
1 TAXIWAY CLOSURE MARKER DETAIL
AC14 NTS



NOTES:

1. RW CLOSURE MARKER WILL BE LIGHTED.
2. INSTALL RW CLOSURE MARKER NEAR THRESHOLD OF THE CLOSED RW.
3. ILLUMINATED RUNWAY CLOSURE MARKER WILL BE PROVIDED BY ANC. THE CONTRACTOR SHALL COORDINATE WITH ANC AIRFIELD MAINTENANCE THROUGH THE ENGINEER TO OBTAIN THE ILLUMINATED RUNWAY CLOSURE MARKERS. FURTHER REQUIREMENTS ARE DESCRIBED IN SPECIFICATION P-671.

2 ILLUMINATED RUNWAY CLOSURE MARKER DETAIL
AC14 NTS



NOTES:

1. HAZARD MARKER BARRIERS ARE NOT TO BE PLACED WITHIN 250 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.
5. FLAGS TO BE USED FOR PHASE 1 TEMPORARY RW END ONLY. SEE SHEET AD2 FOR LOCATION.

3 CONSTRUCTION CLOSURE HAZARD MARKER BARRIER DETAIL
AC14 NTS

GENERAL NOTES:

1. MAINTAIN RW AND TW CLOSURE MARKERS AS CONSTRUCTION ALLOWS.
2. RW CLOSURE MARKERS ARE TO BE PLACED AT EACH END OF RW 14/32.
3. TW CLOSURE MARKERS ARE TO BE PLACED AT THE ENTERANCES OF TW H. (H1, H2, H3, AND H4)
4. PLACE BARRIERS TO LIMIT ACCESS TO THE CLOSED RW.
5. ALTERNATE BETWEEN WHITE AND ORANGE HAZARD MARKER BARRIERS AND FLAGS.
6. AIRPORT MAINTENANCE AND OPERATIONS WILL SUPPLY HAZARD MARKER BARRIERS.

BY	DATE	REVISION	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES CENTRAL REGION 4111 AVIATION AVE., ANCHORAGE ALASKA 99502 PHONE (907) 269-0590		
			LAKE HOOD SEAPLANE BASE ANCHORAGE, ALASKA ANC ATCT REPLACEMENT PARKING PROJECT No. CRMBS00831 AIP No. 697DCK-22-T-00001 RUNWAY, TAXIWAY CLOSURE MARKER DETAILS, & HAZARD BARRIER DETAIL		
			DATE: 04/07/2025 SHEET: AC14 of AC14		