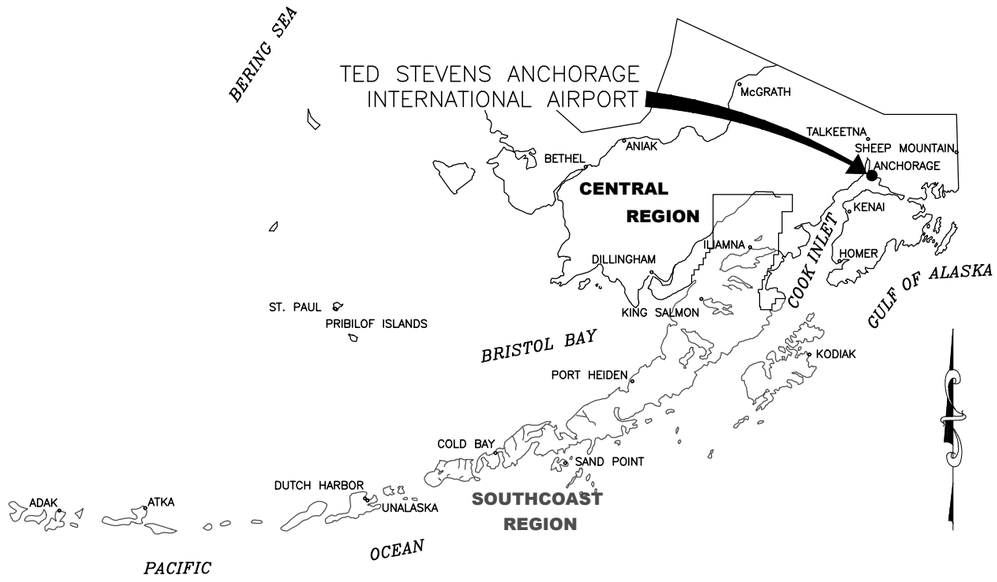
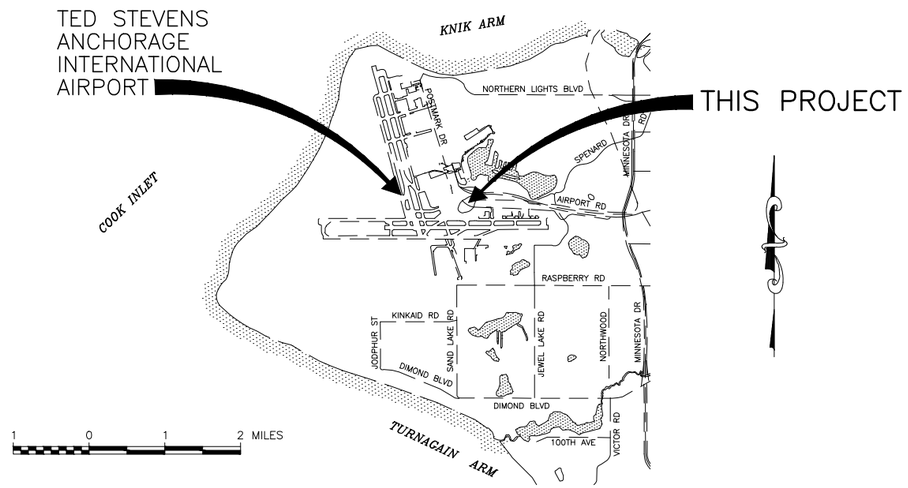


ALASKA CENTRAL REGION LOCATION MAP

NOT TO SCALE



VICINITY MAP

T 12 N, R 4 W SEC. 3, 4, 5, & 6
T 13 N, R 4 W, SEC. 20, 21, 27, 28, 29, 31, 32, 33, 34, & 35
SEWARD MERIDIAN
U.S.G.S. ANCHORAGE (A-8), ALASKA

CONSTRUCTION PLANS

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT

ANCHORAGE, ALASKA
ANC SOUTH TERMINAL EMPLOYEE PARKING AREA IMPROVEMENTS
PROJECT No. CSAPT01183

PS&E REVIEW
MARCH 2025

APPROVED	**DATE**
LUKE BOWLAND, P.E.	**REGIONAL PRECONSTRUCTION ENGINEER**
APPROVED	**DATE**
JENNIFER PEPIN, P.E.	**ENGINEERING & ENVIRONMENTAL MANAGER**
APPROVED	**DATE**
JENNIFER LOMBARDO, P.E.	**PROJECT MANAGER**
CONCUR	**DATE**
JOEL G. ST. AUBIN, P.E.	**REGIONAL CONSTRUCTION ENGINEER**

STATE OF ALASKA 49TH
Alma O. Abaza
CE-13545
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
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TITLE, SIGNATURES, LOCATION & VICINITY MAP

DATE: MARCH 2025

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INDEX

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LEGEND

DESCRIPTION	EXISTING	PROPOSED
AIRPORT PROPERTY BOUNDARY		
BUILDING		
BOLLARD		
CARD READER		CR
COMMUNICATION LINE (UNDERGROUND)	UCOM	UCOM
COMMUNICATION PANEL		
CONCRETE		
CONTOURS	100	100
CURB AND GUTTER		
CUT LIMIT		
DETAIL CALLOUT		
ELECTRICAL LINE (UNDERGROUND)	UGE	UGE
ELECTRICAL TRANSFORMER	E	
ELECTRICAL PEDESTAL		
FENCE (CHAIN LINK)	X X	
AOA FENCE (CHAIN LINK)	xx xx xx	
FILL LIMIT		
FIRE HYDRANT		
FUEL LINE (UNDERGROUND)	F	
FUEL VALVE BOX	F	
GAS LINE	GAS	
GRADE BREAK		GB
HAND CLEARING		
HAUL ROUTE (ONE WAY)		
HAUL ROUTE (TWO WAY)		
JUNCTION BOX TYPE I		
JUNCTION BOX TYPE II		
LIGHT POLE		
PAVEMENT MARKING		
PAVEMENT/SHOULDER (EDGE)		
POINT NUMBER		100
ROADWAYS (EDGE, GRAVEL)		
SANITARY SEWER LINE (UNDERGROUND)	SS	
SANITARY SEWER MANHOLE	SS	

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SIGN POST/MARKER		
STORM DRAIN CATCH BASIN	CB	
STORM DRAIN LINE	SD	SD
STORM DRAIN MANHOLE	MH	MH
STORM DRAIN TOP INTAKE	FI	
SURVEILLANCE CAMERA		
SWITCH CABINET		
TELEPHONE MANHOLE	T	
TELEPHONE PEDESTAL	T	
TREE		
TREE CANOPY		
WATERLINE (UNDERGROUND)	W	
WATER VALVE		

ABBREVIATIONS

AC	ADVISORY CIRCULAR/ASPHALT CONCRETE	LS	LUMP SUM
AIC	AMPS INTERRUPTING CAPACITY	LT	LEFT
ANC	ANCHORAGE INTERNATIONAL AIRPORT	ME	MATCH EXISTING
AOA	AIRPORT OPERATIONS AREA	MH	MANHOLE
ATM	ALASKA TEST METHOD	MPH	MILES PER HOUR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MPZ	MINI-POWER ZONE
BOC	BACK OF CURB	NEC	NATIONAL ELECTRICAL CODE
CABC	CRUSHED AGGREGATE BASE COURSE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CATCH BASIN	NO	NUMBER
CEA	CHUGACH ELECTRIC ASSOCIATION	NTS	NOT TO SCALE
CR	CARD READER	OC	ON CENTER
CS	CARBON STEEL	PC	POINT OF CURVATURE
CSPP	CONSTRUCTION SAFETY & PHASING PLAN	PCC	PORTLAND CEMENT CONCRETE
DI	DUCTILE IRON	PI	POINT OF INTERSECTION
DIA, ø	DIAMETER	PNL	PANEL
DOT&PF	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	POE	POWER OVER ETHERNET
		PPE	PERSONAL PROTECTIVE EQUIPMENT
E	ELECTRICAL	PSE	PLANS, SPECIFICATIONS, & ESTIMATE
ELEV	ELEVATION	PT	POINT OF TANGENCY
ESCP	EROSION AND SEDIMENT CONTROL PLAN	PVC	POLYVINYLCHLORIDE
FAA	FEDERAL AVIATION ADMINISTRATION	PZ	POWER ZONE
FI	FIELD INLET	R	RADIUS
FOD	FOREIGN OBJECTS AND DEBRIS	REQ'D	REQUIRED
FT	FEET	RT	RIGHT
GB	GRADE BREAK	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
GND	GROUND		
GO	GATE OPERATOR	RMC	RIGID METALLIC CONDUIT
GRC	GALVANIZED RIGID CONDUIT	SD	STORM DRAIN
HBO	HEAD BOLT OUTLET	SDCB	STORM DRAIN CATCH BASIN
HID	HUGHES IDENTIFICATION DEVICES	SF	SQUARE FEET
HMA	HOT MIX ASPHALT	STA	STATION
IAW	IN ACCORDANCE WITH	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
JB	JUNCTION BOX	SY	SQUARE YARD
KVA	VOLT-AMPS	TYP	TYPICAL
LB	POUND	UON	UNLESS OTHERWISE NOTED
LC	LOAD CENTER	V	VOLT
LF	LINEAR FOOT	VB	VALVE BOX

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PROJECT No. CSAPT01183

INDEX, LEGEND, AND ABBREVIATIONS

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ESTIMATED QUANTITIES

No.	ITEM	UNIT	QUANTITY
D701.010.0012	CS PIPE, 12–INCH	LF	30
D751.010.0048	MANHOLE, TYPE I, 48–INCH	EACH	2
D751.100.0000	ADJUST MANHOLE	EACH	5
F162.130.0000	RELOCATE CHAIN–LINK FENCE	LF	16
F170.010.0000	STEEL BOLLARD	EACH	4
F171.010.0000	POWER GATE OPERATOR SYSTEM	EACH	2
F186.010.0010	ACCESS CONTROLS FOR VEHICLE GATE, EMPLOYEE PARKING	LS	ALL REQ'D
G100.010.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
G135.010.0000	CONSTRUCTION SURVEYING BY THE CONTRACTOR	LS	ALL REQ'D
G135.020.0000	EXTRA THREE PERSON SURVEY PARTY	HOUR	20
G150.030.0000	EQUIPMENT RENTAL, VAC–TRUCK	CS	ALL REQ'D
G300.010.0000	CPM SCHEDULING	LS	ALL REQ'D
G710.010.0000	HIGHWAY TRAFFIC MAINTENANCE	LS	ALL REQ'D
G710.020.0000	HIGHWAY FLAGGER	CS	ALL REQ'D
G710.030.0000	HIGHWAY TRAFFIC PRICE ADJUSTMENT	CS	ALL REQ'D
G710.040.0000	HIGHWAY TRAFFIC CONTROL	CS	ALL REQ'D
P151.040.0000	CLEARING & GRUBBING	LS	ALL REQ'D
P152.010.0000	UNCLASSIFIED EXCAVATION	CY	900
P154.020.0000	SUBBASE COURSE	TON	1,550
P160.010.0000	EXCAVATION OF PAVEMENT, AC	SY	620
P162.010.0000	PAVEMENT COLD PLANING	SY	3,135
P165.010.0000	REMOVAL OF STRUCTURES	LS	ALL REQ'D
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	TON	973
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	TON	452
P401.040.5834	ASPHALT BINDER, PG58–34E	TON	30
P501.020.0000	ELASTOMERIC REPAIR	SF	24
P603.010.0010	TACK COAT, STE–1	TON	2
P610.010.0000	STRUCTURAL PORTLAND CEMENT CONCRETE	CY	4
P610.035.0000	CURB AND GUTTER, TYPE 1	LF	548
P620.100.0000	PAINTED TRAFFIC MARKINGS	SF	140
P641.010.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
P641.050.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL BY DIRECTIVE	CS	ALL REQ'D
P641.060.0000	WITHHOLDING	CS	ALL REQ'D
P641.070.0000	SWPPP MANAGER	LS	ALL REQ'D
P641.110.0000	SWPPPTRACK	CS	ALL REQ'D
P661.040.0000	RELOCATE STANDARD SIGN	EACH	10
T901.020.0000	SEEDING	LB	4
T905.010.0020	TOPSOILING, CLASS B	SY	87

ESTIMATING FACTORS

No.	ITEM	FACTOR
P154.020.0000	SUBBASE COURSE	2.00 TON/CY
P209.020.0000	CRUSHED AGGREGATE BASE COURSE	2.00 TON/CY
P401.010.0030	HOT MIX ASPHALT TYPE II, CLASS A	2.05 TON/CY
P401.040.5834	ASPHALT BINDER, PG58–34E	5.5% OF P401.010.0030
P603.010.0010	TACK COAT, STE–1	0.8416 LB/SY
T901.020.0000	SEEDING	5 LB/1000 SF

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STATE OF ALASKA
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AREA IMPROVEMENTS
PROJECT No. CSAPT01183

ESTIMATED QUANTITIES & ESTIMATING FACTORS

DATE: MARCH 2025

STORM DRAIN PIPE SUMMARY

SHEET	PIPE ID	SIZE (INCH)	LENGTH (FT)	D701.010.0012 CS PIPE, 12–INCH	PIPE ALIGNMENT START STATION	PIPE ALIGNMENT END STATION	INLET STRUCTURE	OUTLET STRUCTURE	INLET ELEVATION (FT)	OUTLET ELEVATION (FT)	SLOPE %
11	P1	12	30.1	30.1	10+10.00	10+40.15	S1	S2	80.26	80.11	–0.50%
			SUBTOTAL	30.1							
			ROUND	0							
			TOTAL	**30**							

STRUCTURE SUMMARY

SHEET	STRUCTURE ID	ALIGNMENT NAME	STATION	OFFSET (FT)	D751.010.0048 MANHOLE TYPE I 48–INCH	D751.100.0000 ADJUST MANHOLE	PROPOSED TOP OF CASTING ELEVATION (FT)	REMARKS
11	S1	EMPLOYEE ENTRANCE	22+42.86	45.2 LT	X		84.31	PROPOSED MANHOLE WITH CURB INLET
	S2	EMPLOYEE ENTRANCE	22+71.77	36.7 LT	X		84.76	PROPOSED MANHOLE
12	PS101	GARAGE EXIT	51+24.66	13.6 LT		X	85.52	EXISTING SANITARY SEWER MANHOLE
		GARAGE EXIT	51+33.08	13.6 RT		X	84.68	EXISTING STORM DRAIN, SEE NOTE 1
	DS118C	GARAGE EXIT	53+33.11	13.6 LT		X	82.39	EXISTING STORM DRAIN FIELD INLET
	PS2	GARAGE EXIT	55+39.01	15.6 LT		X	83.23	EXISTING SANITARY SEWER MANHOLE
	PS1	GARAGE EXIT	55+64.41	8.7 RT		X	82.51	CATCH BASIN MANHOLE
				TOTAL	**2**	**5**		

NOTES:

1. REPLACE FIELD INLET WITH CURB INLET. ROTATE AS NECESSARY TO ALIGN WITH CURB & GUTTER.

F162.130.0000

RELOCATE CHAIN–LINK FENCE

SHEET	FROM BEGIN STATION	FROM BEGIN OFFSET (FT)	FROM END STATION	FROM END OFFSET (FT)	TO BEGIN STATION	TO BEGIN OFFSET (FT)	TO END STATION	TO END OFFSET (FT)	LENGTH (FT)
7 & 11	22+40.12	50.0 LT	22+55.62	50.4 LT	22+39.69	50.0 LT	22+52.04	50.3 LT	16
								ROUND	0
								TOTAL	16

P160.010.0000

EXCAVATION OF PAVEMENT, AC

SHEET	AREA (SF)	AREA (SY)	REMARKS
8	1984	220	EMPLOYEE ENTRANCE
	278	31	EMPLOYEE ENTRANCE – SHOULDER
9	3229	359	PARKING GARAGE EXIT
	ROUND	–1	
	TOTAL	**620**	

P162.010.0000

PAVEMENT COLD PLANING

SHEET	LOCATION	AREA (SF)	AREA (SY)
9	PARKING GARAGE EXIT	28,218	3,135
		ROUND	0
		TOTAL	**3,136**

F170.010.0000

STEEL BOLLARD

LOCATION	BOLLARD (EACH)
EMPLOYEE ENTRANCE	4
PARKING GARAGE EXIT	–
TOTAL	**4**

P401.010.0030

HOT MIX ASPHALT TYPE II, CLASS B

LOCATION	AREA (SF)	THICKNESS (IN)	VOLUME (CF)	VOLUME (CY)	WEIGHT (TONS)
EMPLOYEE ENTRANCE	4258	2	710	26	54
PARKING GARAGE EXIT	31451	2	5242	194	398
				ROUND	0
				TOTAL	**452**

P610.010.0000

STRUCTURAL PORTLAND CEMENT CONCRETE

LOCATION	AREA (SF)	DEPTH (IN)	VOLUME (CF)	VOLUME (CY)
FUTURE SHACK PAD	72	8	48	2
CARD READER PAD	73	4	24	1
CARD READER ISLAND	97	4	32	1
			TOTAL	**4**

P165.010.0000

REMOVAL OF STRUCTURES

SHEET	DEMO ITEM ID	ALIGNMENT	BEGIN STATION	BEGIN OFFSET (FT)	END STATION	END OFFSET (FT)	REMARKS
8	2	EMPLOYEE ENTRANCE	22+18.17	32.4 LT	–	–	REMOVE BOLLARD
			22+27.97	33.6 LT	–	–	REMOVE BOLLARD
			22+46.93	23.2 LT	–	–	REMOVE BOLLARD
			22+56.66	25.4 LT	–	–	REMOVE BOLLARD
	3		20+43.31	19.7 LT	–	–	REMOVE TREE
			20+94.25	23.2 LT	–	–	REMOVE TREE
			21+07.73	20.1 LT	–	–	REMOVE TREE
			21+19.93	23.7 LT	–	–	REMOVE TREE
			22+09.34	45.0 LT	–	–	REMOVE TREE
			22+19.59	41.4 LT	–	–	REMOVE TREE
			22+28.78	43.7 LT	–	–	REMOVE TREE
	4		22+65.30	41.5 LT	–	–	REMOVE STORM DRAIN STRUCTURE
	5		22+65.30	41.6 LT	22+71.77	36.7 LT	REMOVE STORM DRAIN PIPE
	10		20+18.55	7.5 LT	22+47.79	54.1 LT	REMOVE CURB & GUTTER
			22+30.59	19.8 LT	22+68.02	29.3 LT	REMOVE CURB & GUTTER
9	10	PARKING GARAGE EXIT	50+21.28	12.7 RT	50+41.46	13.0 RT	REMOVE CURB & GUTTER
			53+36.19	25.5 RT	53+63.65	29.1 RT	REMOVE CURB & GUTTER
			54+25.95	36.0 LT	54+65.09	35.5 LT	REMOVE CURB & GUTTER
			55+41.99	32.2 RT	55+91.75	19.3 RT	REMOVE CURB & GUTTER

STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER Alma O. Abaza CE-135451

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SUMMARY TABLES

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P610.035.0000

CURB AND GUTTER, TYPE 1

LOCATION	TYPE	ALIGNMENT	BEGIN		END		LENGTH
			STATION	OFFSET (FT)	STATION	OFFSET (FT)	
EMPLOYEE ENTRANCE	6" MOUNTABLE CURB	EMPLOYEE ENTRANCE	20+18.55	7.5 LT	22+04.80	35.9 LT	190
			22+42.24	44.1 LT	22+47.79	54.1 LT	81
	TRANSITION FROM 6" TO 12" MOUNTABLE CURB	EMPLOYEE ENTRANCE	22+04.80	35.9 LT	22+14.57	38.0 LT	10
	12" MOUNTABLE CURB	EMPLOYEE ENTRANCE	22+14.57	38.0 LT	22+32.47	41.9 LT	18
	TRANSITION FROM 12" TO 6" MOUNTABLE CURB	EMPLOYEE ENTRANCE	22+32.47	41.9 LT	22+42.24	44.1 LT	10
EMPLOYEE ENTRANCE – ISLAND	12" CURB	EMPLOYEE ENTRANCE	22+33.05	22.6 LT	22+33.05	22.6 LT	69
PARKING GARAGE EXIT	6" CURB	GARAGE EXIT	50+21.28	12.7 RT	50+52.16	12.5 RT	38
			51+28.14	13.2 RT	51+38.14	13.6 RT	10
			53+37.85	25.8 RT	53+66.96	29.4 RT	29
			54+26.96	36.0 LT	54+65.09	35.5 LT	38
			55+41.99	32.2 RT	55+91.75	19.3 RT	54
						ROUND	0
						TOTAL	**548**

P661.040.0000

RELOCATE STANDARD SIGN

SHEET	ALIGNMENT	FROM		TO		SIGN NO.	SIGNS FACES	EACH	SIGN DESCRIPTION	COMMENTS
		STATION	OFFSET (FT)	STATION	OFFSET (FT)					
11	EMPLOYEE ENTRANCE	22+18.17	32.4 LT	22+20.03	41.8 LT	S1	SW	1	NOTE – MAX STAY 7 DAYS	REMOVE AND RELOCATE ABOVE CARD READER
								1	BADGE ACCESS	REMOVE AND RELOCATE BELOW CARD READER
	EMPLOYEE ENTRANCE	22+34.75	20.7 LT	22+32.31	26.1 LT	S2	NW	1	SPEED LIMIT 5 (R2-1)	REMOVE AND RELOCATE
								1	NOTICE – MAX STAY 7 DAYS	REMOVE AND RELOCATE UNDER R2-1
								1	AIRPORT ISSUED BADGE	REMOVE AND RELOCATE
	EMPLOYEE ENTRANCE	22+71.70	50.5 LT	22+53.67	50.3 LT	S3	E	1	NO PARKING ANYTIME (R7-1)	REMOVE AND RELOCATE ON LIGHT POLE
	EMPLOYEE ENTRANCE	22+49.08	24.7 LT	22+50.23	28.4 LT	S4	SW	1	BADGE ACCESS	REMOVE AND RELOCATE ON CARD READER
	EMPLOYEE ENTRANCE	22+84.30	62.4 LT	22+75.93	62.8 LT	S5	N	1	NOTICE – MAX STAY 7 DAYS*	REMOVE AND RELOCATE
							N	1	CAR IMPOUND	REMOVE AND RELOCATE
							W	1	DO NOT ENTER (R5-1)	REMOVE AND RELOCATE

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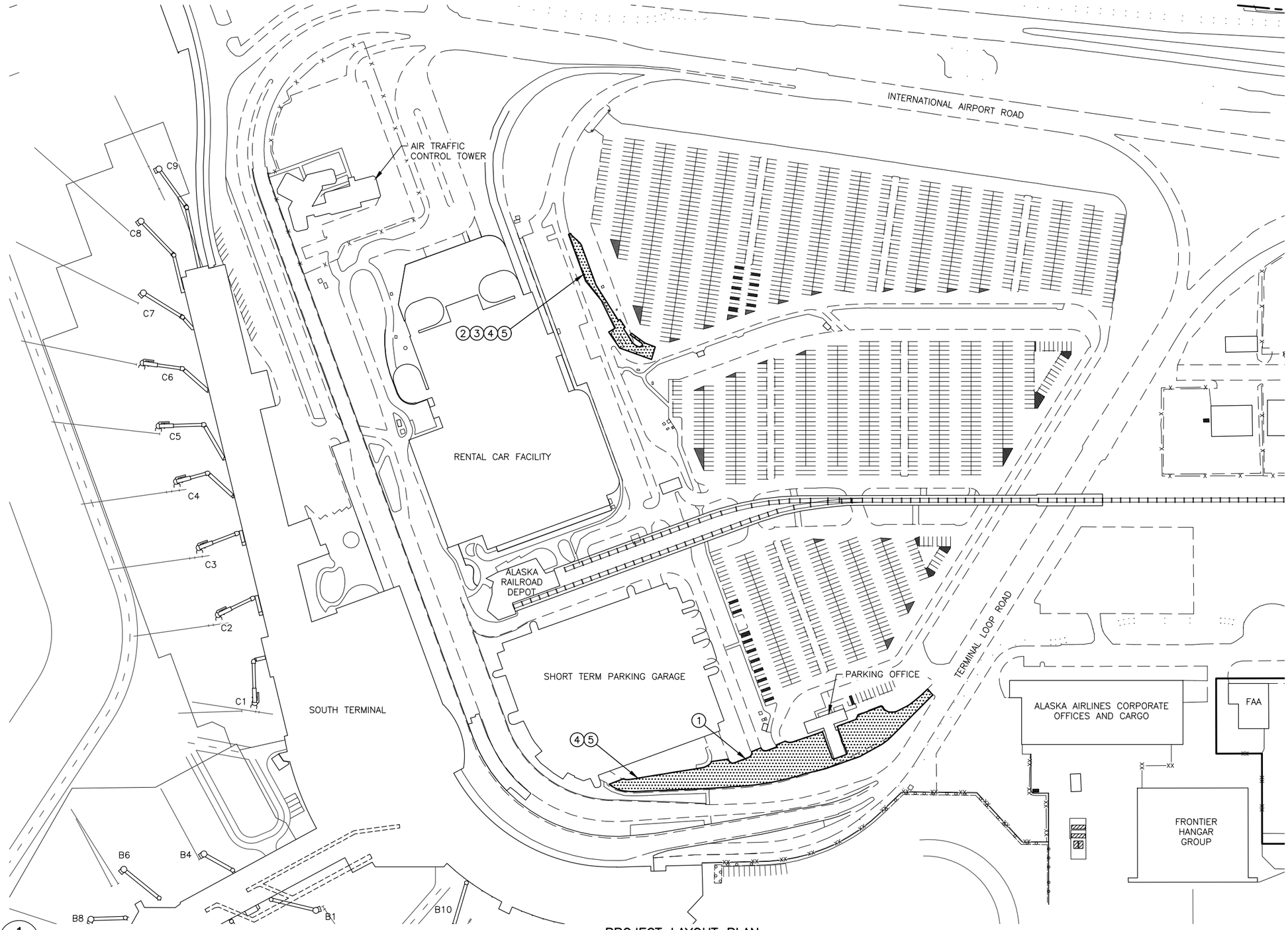
ANCHORAGE, ALASKA
ANC SOUTH TERMINAL EMPLOYEE PARKING
AREA IMPROVEMENTS
PROJECT No. CSAPT01183

SUMMARY TABLES

DATE: MARCH 2025



PROJECT LAYOUT PLAN

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NOTES:

1. ALL CONSTRUCTION SHALL OCCUR WITHIN AIRPORT PROPERTY AND DOT&PF RIGHT OF WAY. NO EXCESS MATERIAL SHALL BE DISPOSED ON AIRPORT PROPERTY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
2. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
3. SEED ANY AREAS ON AIRPORT PROPERTY DISTURBED BY CONSTRUCTION, AND AS DIRECTED BY THE ENGINEER.
4. ADJUST ALL MANHOLES WITHIN THE PAVEMENT TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.
5. IF ANY VALVE BOXES, MANHOLES, MONITORING WELLS, OR MONUMENT CASES REQUIRE GRADE ADJUSTMENT AFTER FINAL LIFT PAVING, AS DETERMINED BY THE ENGINEER, SAW CUT A NEAT LINE ALONG THE PAVEMENT TO BE REMOVED. USE AN INFRARED HEATER TO HEAT THE EXISTING PAVEMENT. EQUIPMENT AND MAXIMUM TEMPERATURE SHALL BE APPROVED BY THE ENGINEER. REPLACE REMOVED ASPHALT WITH NEW HOT MIX ASPHALT AND THOROUGHLY COMPACT. SEAL JOINTS AT LEAST 12 INCHES WIDE WHILE THE HOT MIX ASPHALT IS CLEAN, FREE OF MOISTURE, AND PRIOR TO STRIPING.
6. THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST VALVE BOXES, MANHOLES, MONITORING WELLS, AND MONUMENT CASES TO FINAL GRADE.
7. TOPSOIL (4" MINIMUM) AND SEED ALL AREAS DISTURBED BY CONSTRUCTION, INCLUDING CUT AND EMBANKMENT SLOPES.

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

1. PAVEMENT COLD PLANING & HMA TYPE II, CLASS A
2. INSTALL TWO CARD READERS, BARRIER ARM GATES, AND BOLLARDS.
3. INSTALL STORM DRAIN CATCH BASIN
4. INSTALL CURB AND GUTTER
5. HMA TYPE II, CLASS A

LEGEND:

PROJECT LIMITS

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:19 AM
Layout Name: 6
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-Project Layout Plan.dwg

STATE OF ALASKA
49TH
Alma O. Abaza
CE-135451
REGISTERED PROFESSIONAL ENGINEER

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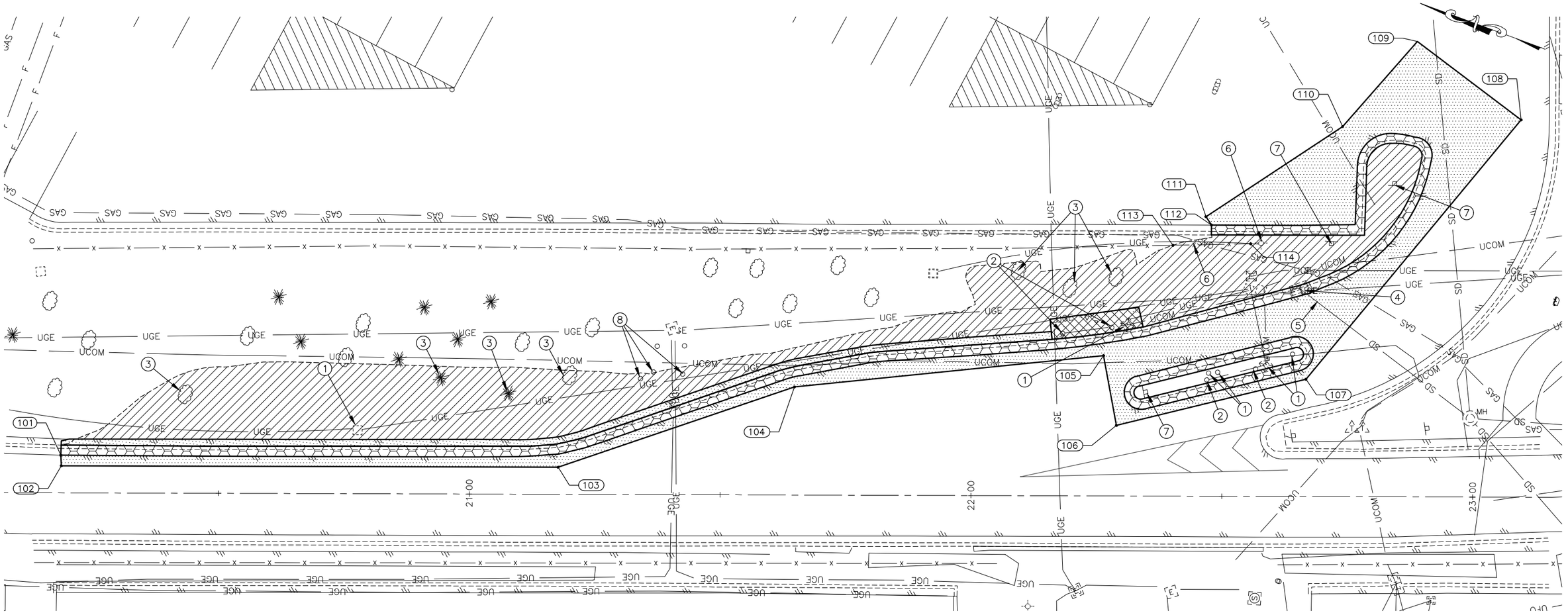
PROJECT No. CSAPT01183
PROJECT LAYOUT PLAN

DATE: MARCH 2025
SHEET: 6 OF 17



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DEMOLITION PLAN – EMPLOYEE ENTRANCE

10' 5' 0 10' 20'

DEMO PLAN SCHEDULE			
POINT	STATION	OFFSET	REMARKS
101	20+18.55	7.51' LT	PAVEMENT PI
102	20+18.66	5.40' LT	PAVEMENT PI
103	21+17.69	5.40' LT	PAVEMENT PI
104	21+64.76	21.55' LT	PAVEMENT PI
105	22+26.36	27.98' LT	PAVEMENT PI
106	22+28.94	14.06' LT	PAVEMENT PI
107	22+66.71	23.38' LT	PAVEMENT PI
108	23+09.45	75.21' LT	PAVEMENT PI
109	22+88.72	90.79' LT	PAVEMENT PI
110	22+73.88	73.79' LT	PAVEMENT PI
111	22+46.68	55.73' LT	PAVEMENT PI
112	22+47.79	54.07' LT	PAVEMENT PI
113	22+40.12	50.01' LT	REMOVE FENCE
114	22+55.62	50.35' LT	REMOVE FENCE

DEMOLITION WORK THIS SHEET:

1. REMOVE GATE ARM, ELECTRICAL EQUIPMENT, POST, ETC. SEE ELECTRICAL SHEETS.
2. REMOVE BOLLARD
3. REMOVE TREE
4. REMOVE STORM DRAIN STRUCTURE
5. REMOVE STORM DRAIN PIPE
6. REMOVE AND RESET FENCE
7. SALVAGE SIGN
8. RELOCATE EXISTING LIGHT POLE. SEE ELECTRICAL SHEETS

LEGEND:

- EXCAVATION OF PAVEMENT (AC)
- APPROXIMATE GRADING LIMITS
- CONCRETE REMOVAL
- CURB AND GUTTER REMOVAL
- CLEARING AND GRUBBING LIMITS

SHEET NOTES:

1. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATION ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMO.
2. SEE STORM DRAIN STRUCTURE/PIPE SUMMARY TABLE ON SHEET 4 FOR STORM DRAIN SCOPE OF WORK.
3. PROTECT IN PLACE EXISTING STORM DRAIN UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER.
4. SEE SHEETS E1–E2 FOR ELECTRICAL DEMOLITION ITEMS (NOT SHOWN FOR CLARITY).

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PROJECT No. CSAPT01183

DEMOLITION PLAN – EMPLOYEE ENTRANCE

DATE: MARCH 2025

SHEET: 7 OF 17

Designed By: -
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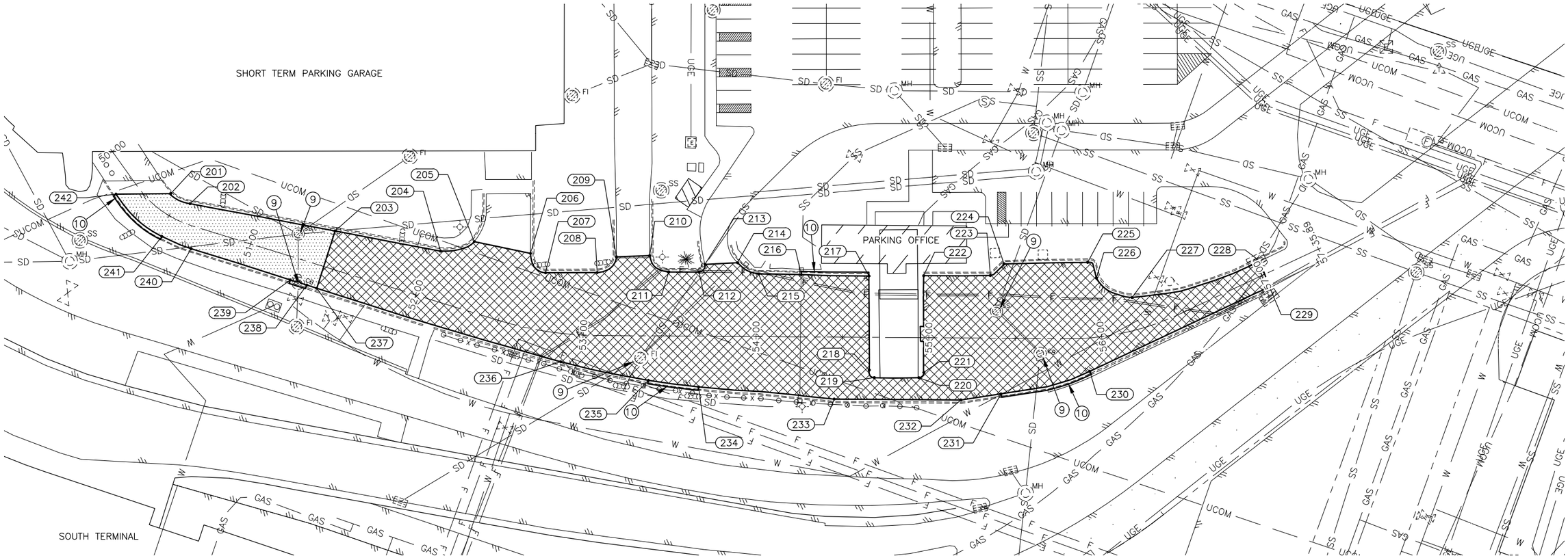
Date Revised:
Layout Name: 7
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-Demo Plan.dwg 3/7/2025 11:22 AM



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DEMOLITION PLAN – PARKING GARAGE EXIT

30' 15' 0 30' 60'

DEMO PLAN SCHEDULE			
POINT	STATION	OFFSET	REMARKS
201	50+42.98	11.14' LT	PAVEMENT PI
202	50+58.61	11.69' LT	PAVEMENT PI
203	51+44.53	21.61' LT	PAVEMENT PI
204	52+06.33	28.47' LT	PAVEMENT PI
205	52+23.26	39.49' LT	PAVEMENT PI
206	52+58.22	42.41' LT	PAVEMENT PI
207	52+71.80	33.35' LT	PAVEMENT PI
208	53+07.85	36.39' LT	PAVEMENT PI
209	53+18.92	45.63' LT	PAVEMENT PI
210	53+38.18	46.41' LT	PAVEMENT PI
211	53+49.24	37.00' LT	PAVEMENT PI
212	53+66.80	37.09' LT	PAVEMENT PI
213	53+70.16	41.58' LT	PAVEMENT PI
214	53+89.02	42.64' LT	PAVEMENT PI

DEMO PLAN SCHEDULE			
POINT	STATION	OFFSET	REMARKS
215	54+01.28	36.23' LT	PAVEMENT PI
216	54+25.95	36.01' LT	BEGIN CURB REMOVAL
217	54+65.09	35.51' LT	END CURB REMOVAL
218	54+65.65	18.92' RT	PAVEMENT PI
219	54+68.60	23.32' RT	PAVEMENT PI
220	54+94.44	23.20' RT	PAVEMENT PI
221	54+97.25	20.10' RT	PAVEMENT PI
222	54+96.78	35.87' LT	PAVEMENT PI
223	55+35.39	36.27' LT	PAVEMENT PI
224	55+43.21	43.08' LT	PAVEMENT PI
225	55+96.34	43.68' LT	PAVEMENT PI
226	56+01.68	34.08' LT	PAVEMENT PI
227	56+23.31	18.70' LT	PAVEMENT PI
228	57+02.16	8.03' LT	PAVEMENT PI

DEMO PLAN SCHEDULE			
POINT	STATION	OFFSET	REMARKS
229	57+00.89	8.03' RT	PAVEMENT PI
230	55+91.75	19.31' RT	BEGIN CURB REMOVAL
231	55+41.99	32.21' RT	END CURB REMOVAL
232	55+18.76	35.89' RT	PAVEMENT PI
233	54+45.53	35.89' RT	PAVEMENT PI
234	53+66.96	29.41' RT	BEGIN CURB REMOVAL
235	53+37.85	25.80' RT	END CURB REMOVAL
236	52+88.65	16.38' RT	PAVEMENT PI
237	51+44.21	13.24' RT	PAVEMENT PI
240	50+68.01	12.83' RT	PAVEMENT PI
241	50+52.16	12.49' RT	BEGIN CURB REMOVAL
242	50+21.28	12.70' RT	END CURB REMOVAL

DEMOLITION WORK THIS SHEET:

(9) ADJUST MANHOLE

(10) CURB AND GUTTER REMOVAL

LEGEND:

EXCAVATION OF PAVEMENT (AC) SEE NOTE 5

PAVEMENT COLD PLANING SEE NOTE 5

SHEET NOTES:

1. UNDERGROUND UTILITIES IN THESE DRAWINGS ARE SHOWN IN GENERAL LOCATION ONLY. OTHER UTILITIES MAY EXIST THROUGHOUT THE PROJECT AREA. DEPTHS OF MOST ARE UNKNOWN. LOCATE UTILITIES IN THE VICINITY PRIOR TO EXCAVATION AND DEMO.
2. SEE STORM DRAIN STRUCTURE/PIPE SUMMARY TABLE ON SHEET 4 FOR STORM DRAIN SCOPE OF WORK.
3. PROTECT IN PLACE EXISTING STORM DRAIN UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER.
4. SEE SHEETS E1–E2 FOR ELECTRICAL DEMOLITION ITEMS (NOT SHOWN FOR CLARITY).
5. EXCAVATION OF PAVEMENT AND PAVEMENT COLD PLANING LIMITS ARE TO LIP OF EXISTING CURB/EDGE OF PAVEMENT OR TO EDGE OF EXISTING CONCRETE (UNDER CANOPY).

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PROJECT No. CSAPT01183

DEMOLITION PLAN – PARKING GARAGE EXIT

DATE: MARCH 2025

SHEET: 8 OF 17

Designed By: -
Drawn By: -
Checked By: -

Date Revised:
Layout Name: 8
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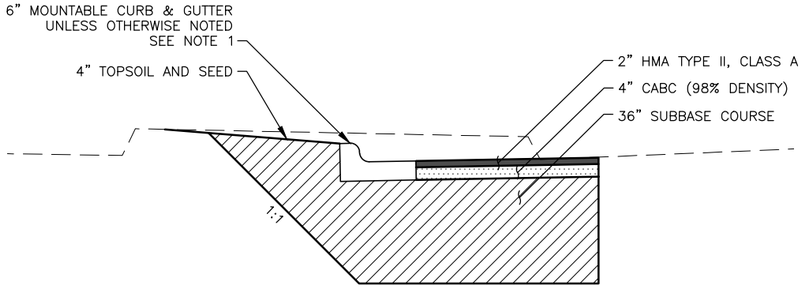
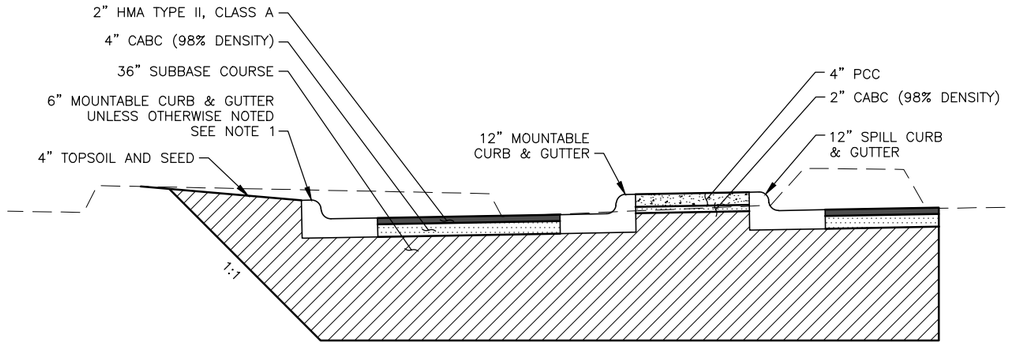


1/9 EMPLOYEE ENTRANCE TYPICAL SECTION 1

STA 20+18.66 TO STA 22+28.89

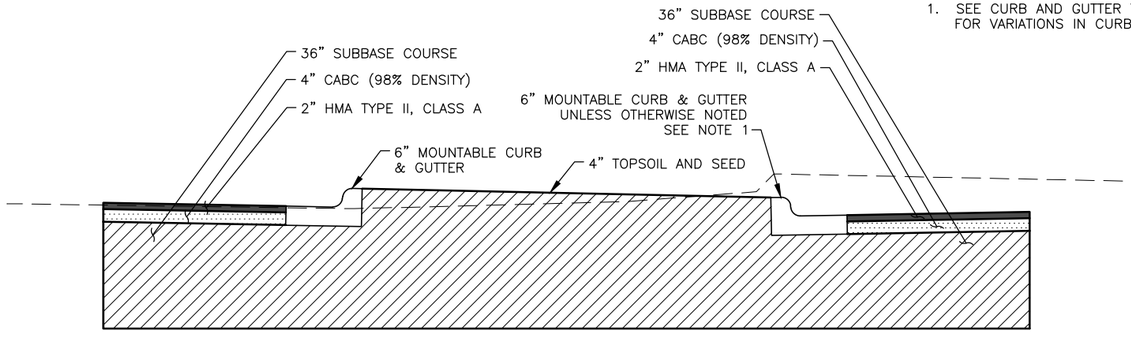


2/9 EMPLOYEE ENTRANCE TYPICAL SECTION 2

STA 22+28.89 TO STA 22+64.89

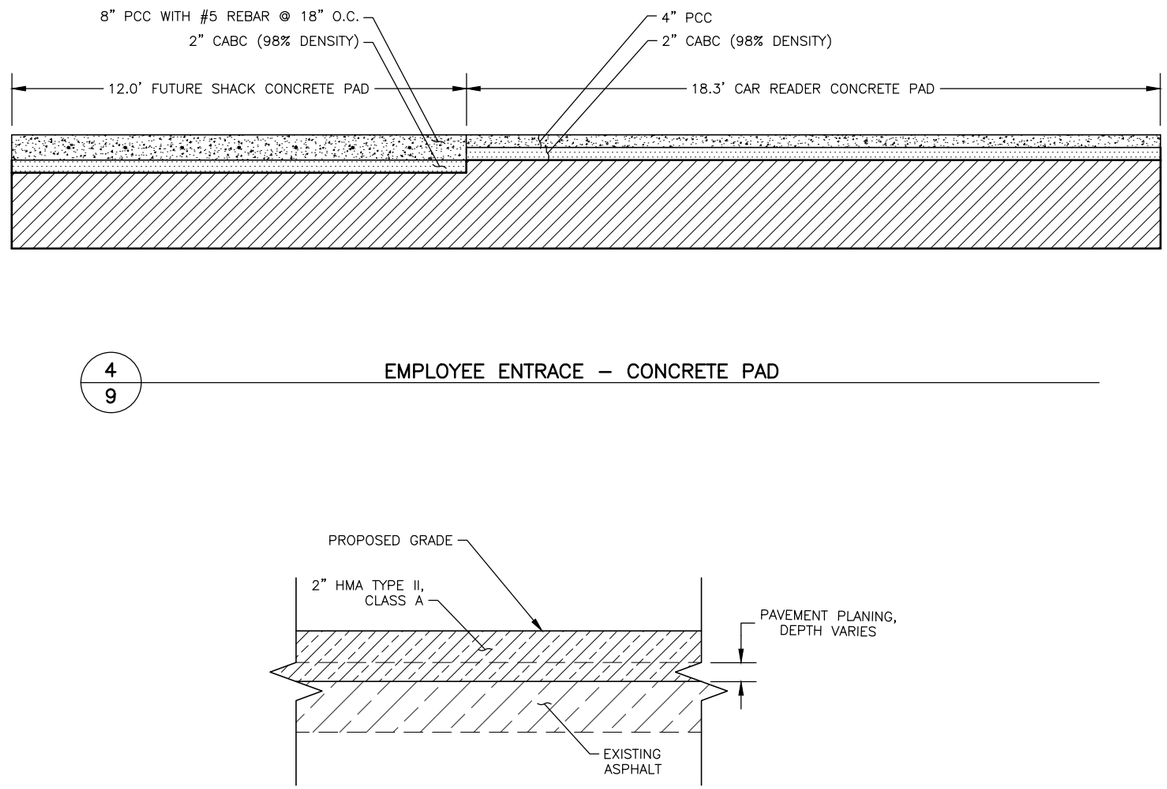
NOTES:

1. SEE CURB AND GUTTER TABLE ON SHEET 5 FOR VARIATIONS IN CURB AND GUTTER TYPES.

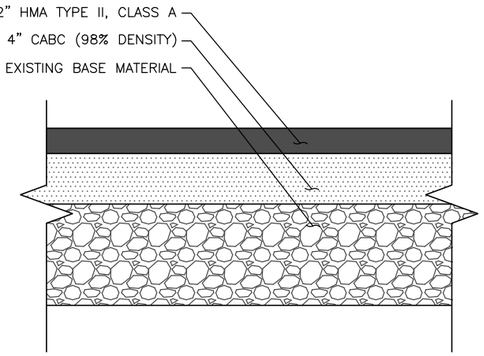


3/9 EMPLOYEE ENTRANCE TYPICAL SECTION 3

STA 22+64.89 TO STA 23+09.45



4/9 EMPLOYEE ENTRACE – CONCRETE PAD



5/9 PARKING GARAGE EXIT PAVEMENT STRUCTURAL SECTION

6/9 PARKING GARAGE EXIT STRUCTURAL SECTION

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AREA IMPROVEMENTS
PROJECT No. CSAPT01183

TYPICAL SECTIONS

DATE: MARCH 2025

SHEET: 9 OF 17

Designed By: -
Drawn By: -
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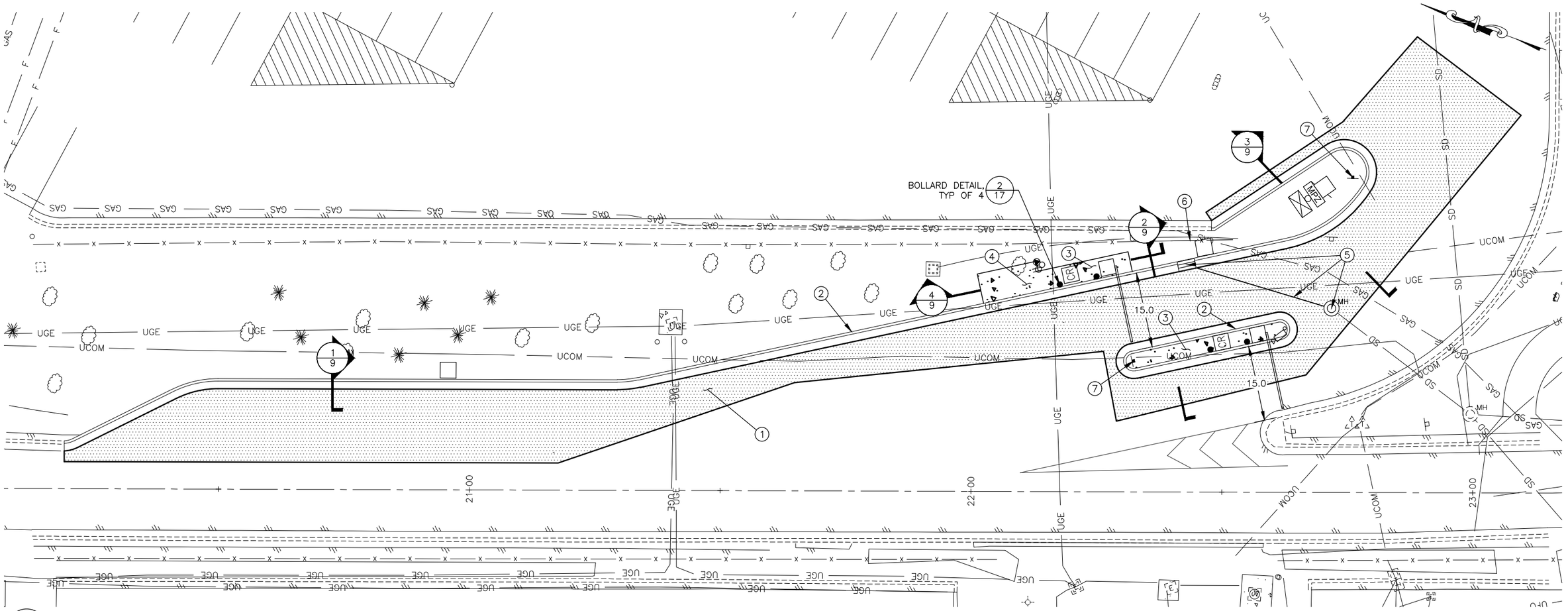
Date Revised: 3/7/2025 11:23 AM
Layout Name: 9
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-Typical Sections.dwg



1/10

SITE PLAN – EMPLOYEE ENTRANCE

10' 5' 0 10' 20'

WORK ITEMS ON THIS SHEET:

1. ASPHALT SURFACING
2. CURB AND GUTTER, SEE SUMMARY TABLE ON SHEET 5.
3. PCC CARD READER PAD, SEE ELECTRICAL PLANS FOR DETAILS.
4. PCC FUTURE GUARD SHACK PAD
5. STORM DRAIN SYSTEM, SEE SHEET 16.
6. FENCE, SEE SUMMARY TABLE ON SHEET 4.
7. RELOCATED SIGNS, SEE SUMMARY TABLE ON SHEET 5.

LEGEND:

HMA TYPE II, CLASS B

CONCRETE

NOTES:

1. SEE ELECTRICAL PLANS FOR GATES, CARD READERS, AND ELECTRICAL EQUIPMENT.

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PROJECT No. CSAPT01183

SITE PLAN – EMPLOYEE ENTRANCE

DATE: MARCH 2025

SHEET: 10 OF 17

Designed By: -
Drawn By: -
Checked By: -

Date Revised:
Layout Name: 10
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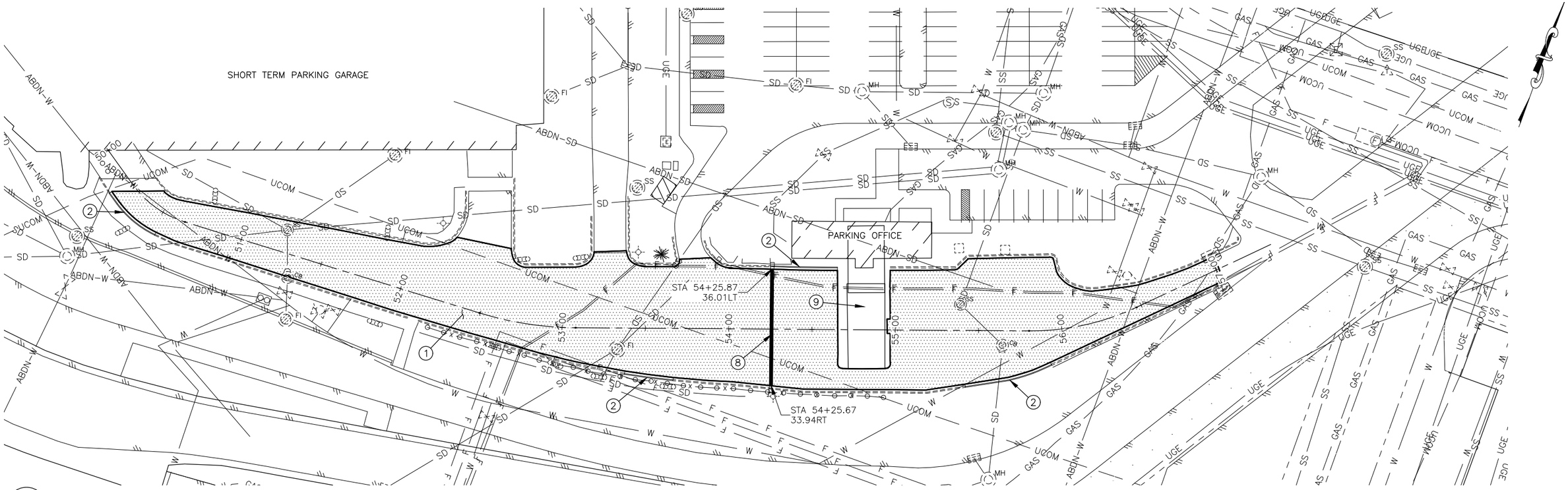

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11

SITE PLAN – PARKING GARAGE EXIT

30' 15' 0 30' 60'

WORK ITEMS ON THIS SHEET:

(1) ASPHALT SURFACING, SEE SHEET 13.

(2) CURB AND GUTTER, SEE SHEET 5.

(8) 24" WHITE STRIPE

(9) ELASTOMERIC REPAIR AREA UNDER CANOPY, SEE DETAILS ON SHEETS 14–15.

LEGEND:

HMA TYPE II, CLASS B

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Date Revised: 3/7/2025 11:25 AM
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File Path and Name: J:\Jobs\Data\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\011183-ANC-Site Plan-Parking Garage Exit.dwg

STATE OF ALASKA
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REGISTERED PROFESSIONAL ENGINEER

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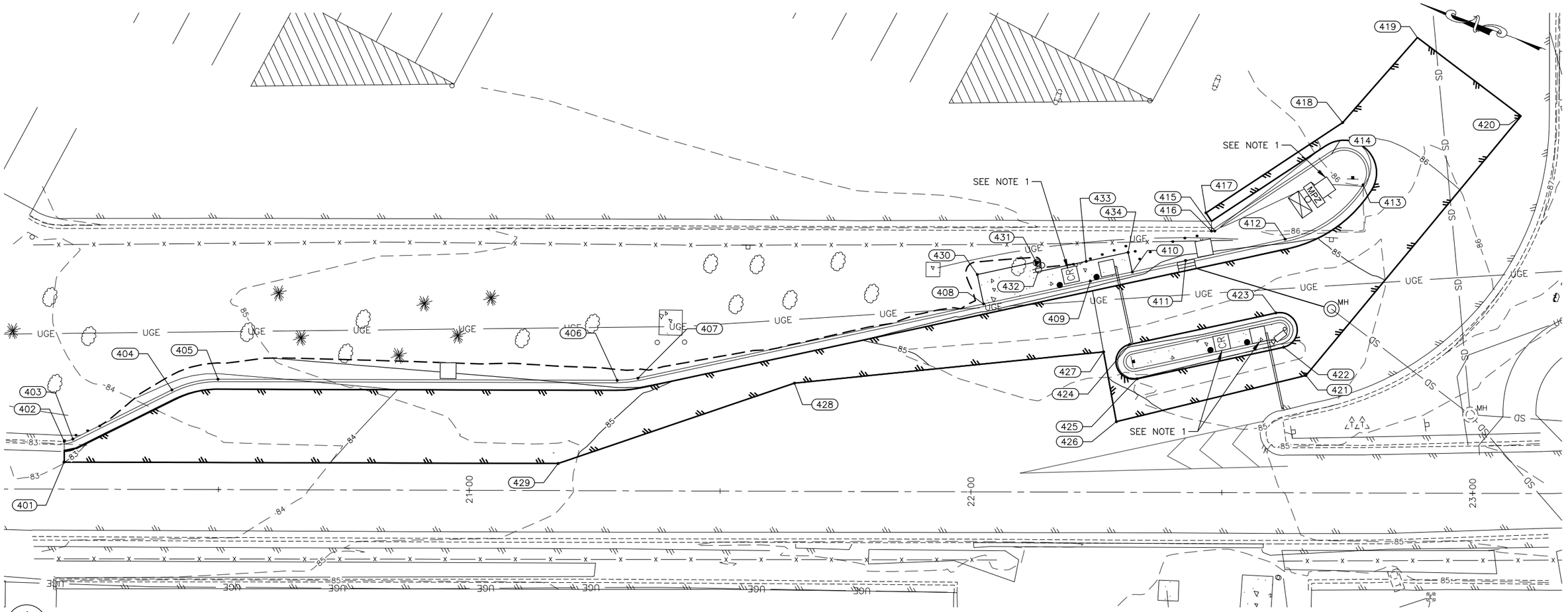
PROJECT No. CSAPT01183

SITE PLAN – PARKING GARAGE EXIT

DATE: MARCH 2025

SHEET: 11 OF 17



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12

GRADING PLAN – EMPLOYEE ENTRANCE

10' 5' 0 10' 20'

GRADING POINTS				
POINT	ELEVATION	STATION	OFFSET	REMARKS
401	83.00'	20+19.22	5.40' LT	PI
402	83.39'	20+19.23	9.51' LT	PC, BOC, R=4.5'
403	83.42'	20+20.95	9.98' LT	PT, BOC
404	83.64'	20+40.67	19.84' LT	PC, BOC, R=20.5'
405	83.72'	20+49.84	22.00' LT	PT, BOC
406	85.31'	21+29.41	22.00' LT	PC, BOC, R=19.5'
407	85.41'	21+33.56	22.45' LT	PT, BOC
408	85.74'	22+02.42	37.44' LT	BOC, CONCRETE PAD
409	85.57'	22+23.68	42.08' LT	BOC, CONCRETE PAD
410	85.43'	22+32.04	43.90' LT	BOC, CONCRETE PAD
411	84.71'	22+42.65	46.21' LT	LOW POINT/ BOC
412	85.18'	22+62.48	50.53' LT	PC, BOC, R=24.5'

GRADING POINTS				
POINT	ELEVATION	STATION	OFFSET	REMARKS
413	86.02'	22+77.98	61.38' LT	PT,PC, BOC, R=4.5'
414	86.47'	22+71.68	67.53' LT	PT, BOC
415	85.98'	22+48.45	52.11' LT	PCC
416	85.98'	22+47.79	52.11' LT	PCC/ ME
417	85.53'	22+46.68	55.73' LT	PI
418	86.19'	22+73.88	73.79' LT	PI
419	86.33'	22+88.72	90.79' LT	PI
420	86.67'	23+09.45	75.21' LT	PI
421	84.70'	22+66.71	23.38' LT	PI
422	84.63'	22+62.25	29.01' LT	PT
423	84.54'	22+60.70	35.84' LT	PC, R=3.5'
424	84.76'	22+31.56	29.47' LT	PT

GRADING POINTS				
POINT	ELEVATION	STATION	OFFSET	REMARKS
425	84.95'	22+33.05	22.63' LT	PC, R=3.5'
426	85.13'	22+28.94	14.06' LT	PI
427	84.82'	22+26.36	27.98' LT	PI
428	85.14'	21+64.76	21.55' LT	PI
429	84.93'	21+17.69	5.40' LT	PI
430	85.80'	22+01.14	43.31' LT	CONCRETE PAD
431	85.71'	22+12.87	45.86' LT	CONCRETE PAD
432	85.69'	22+13.29	43.91' LT	CONCRETE PAD
433	85.61'	22+22.83	45.99' LT	CONCRETE PAD
434	85.47'	22+31.19	47.81' LT	CONCRETE PAD

LEGEND:

CONCRETE

NOTES:

1. SEE ELECTRICAL PLANS FOR GATES, CARD READERS, AND ELECTRICAL EQUIPMENT.

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PROJECT No. CSAPT01183

GRADING PLAN – EMPLOYEE ENTRANCE

DATE: MARCH 2025

SHEET: 12 OF 17

Designed By: -
Drawn By: -
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Date Revised: 3/7/2025 11:27 AM
Layout Name: 12
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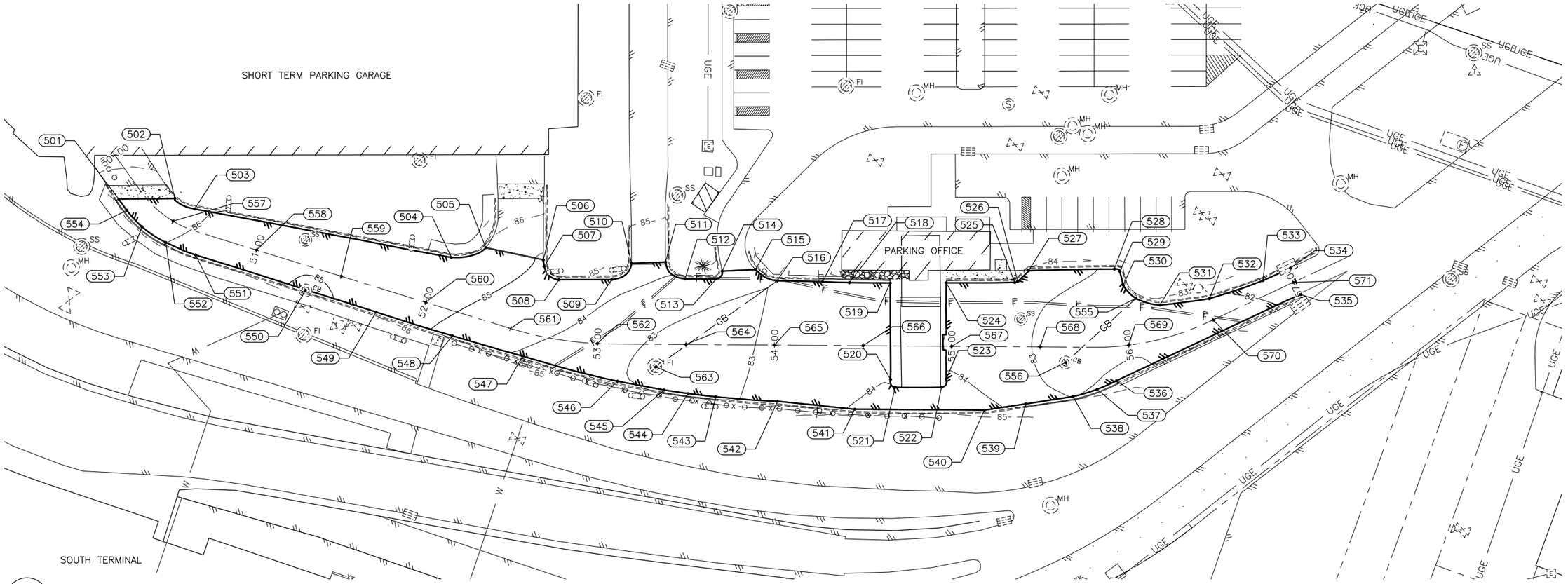

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13

GRADING PLAN – PARKING GARAGE EXIT

30' 15' 0 30' 60'

GRADING POINTS				
POINT	ELEVATION	STATION	OFFSET	REMARKS
501	86.41'	24+54.45	690.71' RT	PI
502	86.17'	24+54.45	677.26' RT	PI
503	86.22'	24+54.45	678.32' RT	PI
504	85.65'	24+54.45	664.63' RT	PI
505	85.90'	24+54.45	656.14' RT	PI
506	84.86'	24+54.45	659.12' RT	PI
507	84.81'	24+54.45	662.81' RT	PI
508	84.64'	24+54.45	669.61' RT	PI
509	84.19'	24+54.45	667.85' RT	PI
510	84.51'	24+54.45	658.41' RT	PI
511	84.38'	24+54.45	657.73' RT	PI
512	83.63'	24+54.45	667.45' RT	PI
513	83.40'	24+54.45	668.23' LT	PI
514	83.43'	24+54.45	663.97' LT	PI
515	83.36'	24+54.45	664.46' LT	PI

GRADING POINTS				
POINT	ELEVATION	STATION	OFFSET	REMARKS
516	83.06'	24+54.45	672.11' LT	PI, GRADE BREAK
517	83.26'	24+54.45	675.74' LT	PI
518	83.50'	24+54.45	678.60' LT	PI
519	83.88'	24+54.45	683.00' LT	PI
520	83.99'	24+54.45	736.47' LT	PI
521	84.19'	24+54.45	741.30' LT	PI
522	84.19'	24+54.45	746.67' LT	PI
523	84.08'	24+54.45	742.76' LT	PI
524	83.90'	24+54.45	689.85' LT	PI
525	83.55'	24+54.45	700.07' LT	PI
526	83.52'	24+54.45	700.06' LT	PI
527	83.46'	24+54.45	695.99' LT	PI
528	82.86'	24+54.45	711.51' LT	PI
529	82.83'	24+54.45	713.97' LT	PI
530	82.72'	24+54.45	721.81' LT	PI

GRADING POINTS				
POINT	ELEVATION	STATION	OFFSET	REMARKS
531	82.52'	24+54.45	740.09' LT	PI
532	82.13'	24+54.45	748.12' LT	PI
533	81.79'	24+54.45	752.30' LT	PI
534	81.58'	24+54.45	753.34' LT	PI
535	81.81'	24+54.45	769.28' LT	PI
536	83.28'	24+54.45	770.95' LT	PI
537	83.13'	24+54.45	771.84' LT	PI
538	82.94'	24+54.45	771.37' LT	PI
539	83.75'	24+54.45	767.51' LT	PI
540	84.20'	24+54.45	764.83' LT	PI
541	84.07'	24+54.45	749.64' LT	PI
542	83.20'	24+54.45	739.73' LT	PI
543	82.83'	24+54.45	734.61' LT	PI
544	82.61'	24+54.45	732.18' RT	PI
545	82.75'	24+54.45	729.92' RT	PI

GRADING POINTS				
POINT	ELEVATION	STATION	OFFSET	REMARKS
546	83.19'	24+54.45	725.16' RT	PI
547	83.93'	24+54.45	714.36' RT	PI
548	84.72'	24+54.45	708.15' RT	PI
549	85.34'	24+54.45	703.15' RT	PI
550	84.68'	51+33.08	13.60' RT	PI
551	85.71'	24+54.45	702.30' RT	PI
552	86.01'	24+54.45	702.07' RT	PI
553	86.19'	24+54.45	699.34' RT	PI
554	86.33'	24+54.45	694.48' RT	PI
555	82.69'	24+54.45	731.45' LT	PI
555	82.69'	24+54.45	731.45' LT	PI
556	82.15'	24+54.45	751.81' LT	PI
556	82.15'	24+54.45	751.81' LT	PI
557	86.15'	24+54.45	689.39' RT	ELEV
558	85.47'	24+54.45	687.81' RT	ELEV

GRADING POINTS				
POINT	ELEVATION	STATION	OFFSET	REMARKS
559	85.22'	24+54.45	688.15' RT	ELEV
560	85.29'	24+54.45	692.11' RT	ELEV
561	84.33'	24+54.45	699.62' RT	ELEV
562	83.62'	24+54.45	704.30' RT	ELEV
563	82.39'	24+54.45	716.86' RT	ELEV
564	82.56'	24+54.45	704.45' RT	ELEV
565	83.13'	24+54.45	707.98' LT	ELEV
566	83.77'	24+54.45	715.01' LT	ELEV
567	83.92'	24+54.45	725.41' LT	ELEV
568	82.84'	24+54.45	739.06' LT	ELEV
569	82.86'	24+54.45	754.54' LT	ELEV
570	82.35'	24+54.45	759.88' LT	ELEV
571	81.70'	24+54.45	761.22' LT	ELEV

STATE OF ALASKA
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BY	DATE	REVISION

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AREA IMPROVEMENTS
PROJECT No. CSAPT01183

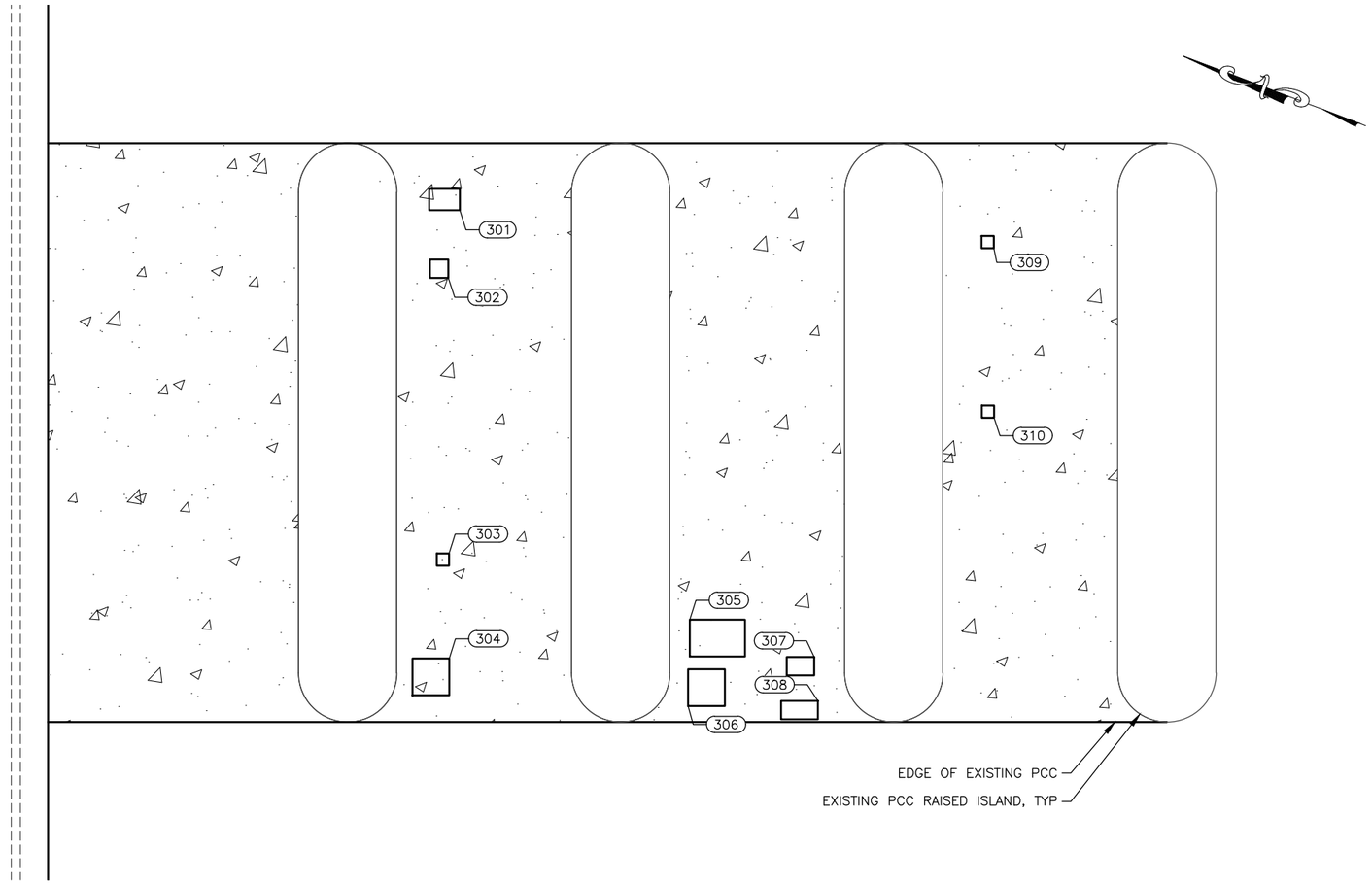
GRADING PLAN – PARKING GARAGE EXIT

DATE: MARCH 2025

SHEET: 13 OF 17

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:27 AM
Layout Name: 13
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-Grading Plan.dwg



LEGEND:

ELASTOMERIC REPAIR (P501.020.0000).
REFER TO ELASTOMERIC DETAILS ON SHEET 15.

SHEET NOTES:

1. INSPECT ALL IDENTIFIED LOCATIONS ON PLANS FOR DAMAGE PRIOR TO ELASTOMERIC REPAIR OR JOINT SEALING FILLER. IF ADDITIONAL DAMAGE HAS OCCURRED, CRACKS HAVE FURTHER DEVELOPED, OR NEW DAMAGE IS DISCOVERED, CONTRACTOR SHALL COORDINATE WITH ENGINEER FOR ADDITIONAL REPAIRS.
2. SAW OVERCUTS SHALL RECEIVE AN EPOXY SEAL AS PER SECTION P-501-2.4. THIS SHALL BE SUBSIDIARY TO THE ELASTOMERIC REPAIR PAY ITEM.

P501.020.0000

ELASTOMERIC REPAIR

WORK ITEM	LENGTH (IN)	WIDTH (IN)	AREA (SF)
301	20	14	1.94
302	12	12	1.00
303	8	8	0.44
304	24	24	4.00
305	36	24	6.00
306	24	24	4.00
307	18	12	1.50
308	24	12	2.00
309	8	8	0.44
310	8	8	0.44
	TOTAL		21.78
	10% CONTINGENCY		23.96
	TOTAL (ROUNDED)		**24.00**

1/14

REPAIR PLAN – EMPLOYEE PARKING EXIT

SCALE: GRAPHIC

4' 2' 0 4' 8'

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AREA IMPROVEMENTS
PROJECT No. CSAPT01183

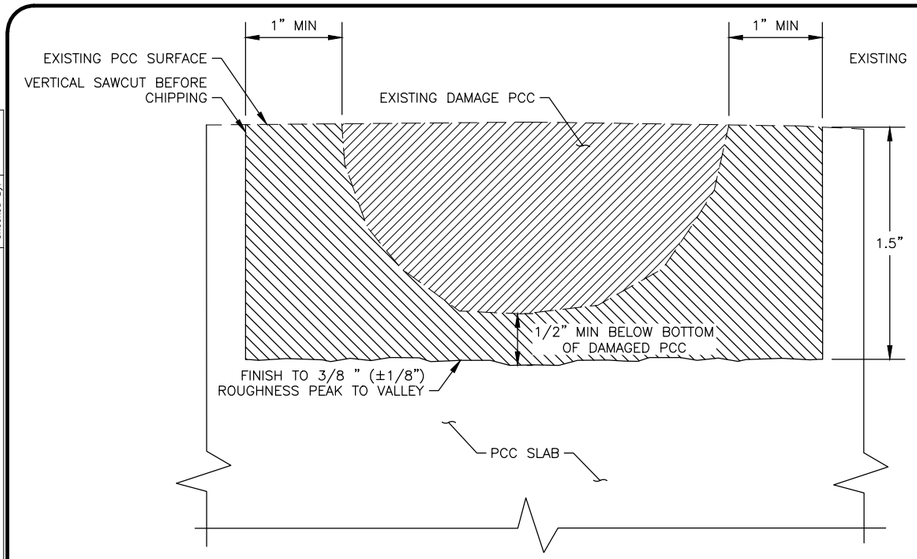
REPAIR PLAN – EMPLOYEE PARKING EXIT

DATE: MARCH 2025

SHEET: 14 OF 17

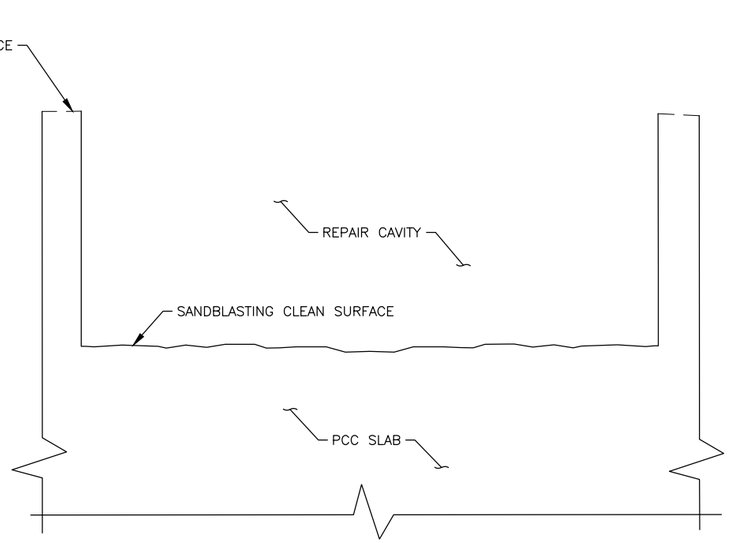
Designed By: -
Drawn By: -
Checked By: -

Date Revised:
Layout Name: 14
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-Repair Plan.dwg
3/7/2025 11:28 AM



1/15 ELASTOMERIC REPAIR – DEMOLITION

SCALE: NTS



2/15 ELASTOMERIC REPAIR – PREPARATION

SCALE: NTS

SHEET NOTES:

1. CLEAN & PREPARE CHIPPED REPAIR CAVITY PER SPECIFICATION SECTION P–501.
2. SEE REPAIR PLAN (SHEET 14) FOR ELASTOMERIC REPAIR LOCATIONS AND SIZES OF REPAIR AREAS.
3. SEALING INCIDENTAL OVERCUTS WITH EPOXY SHALL BE SUBSIDIARY TO PAY ITEM P501.020.0000
4. CONTRACTOR SHALL INSTALL ELASTOMERIC REPAIRS IN SINGLE POURS NO GREATER 4 SF UNLESS APPROVED BY THE ENGINEER. FOLLOW MANUFACTURER RECOMMENDATIONS AND PROCEDURES FOR ELASTOMERIC COLD JOINTS.

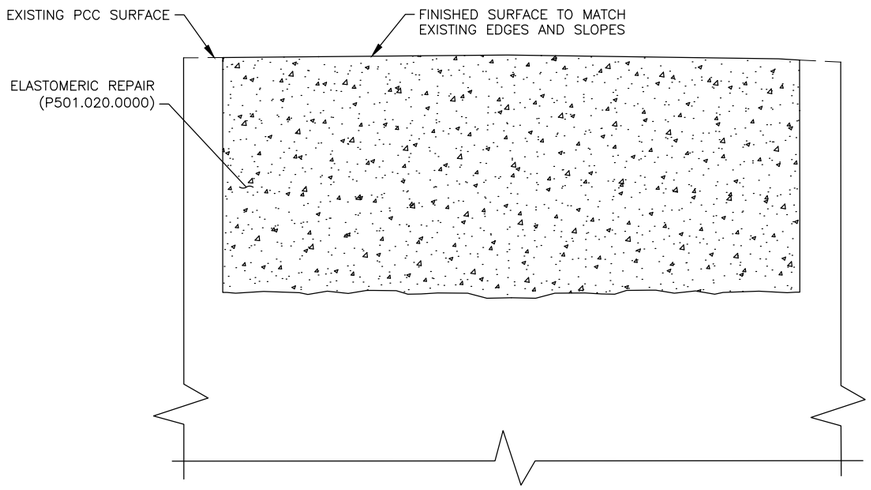
LEGEND:

PCC REMOVAL

PCC DAMAGE

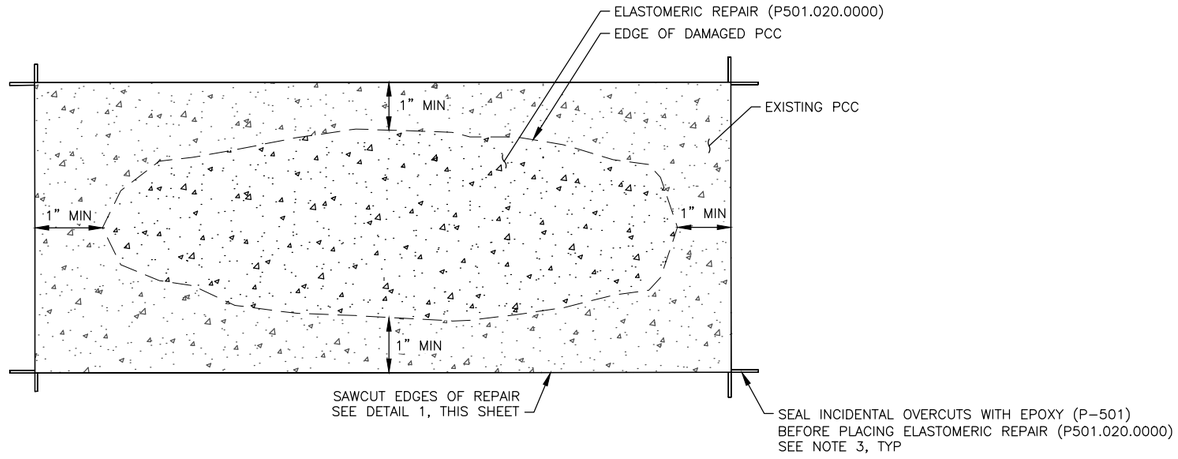
ELASTOMERIC REPAIR

EXISTING PCC



3/15 ELASTOMERIC REPAIR

SCALE: NTS



4/15 ELASTOMERIC REPAIR – PLAN VIEW

SCALE: NTS

STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER Alma O. Abaza CE-135451

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BY	DATE	REVISION

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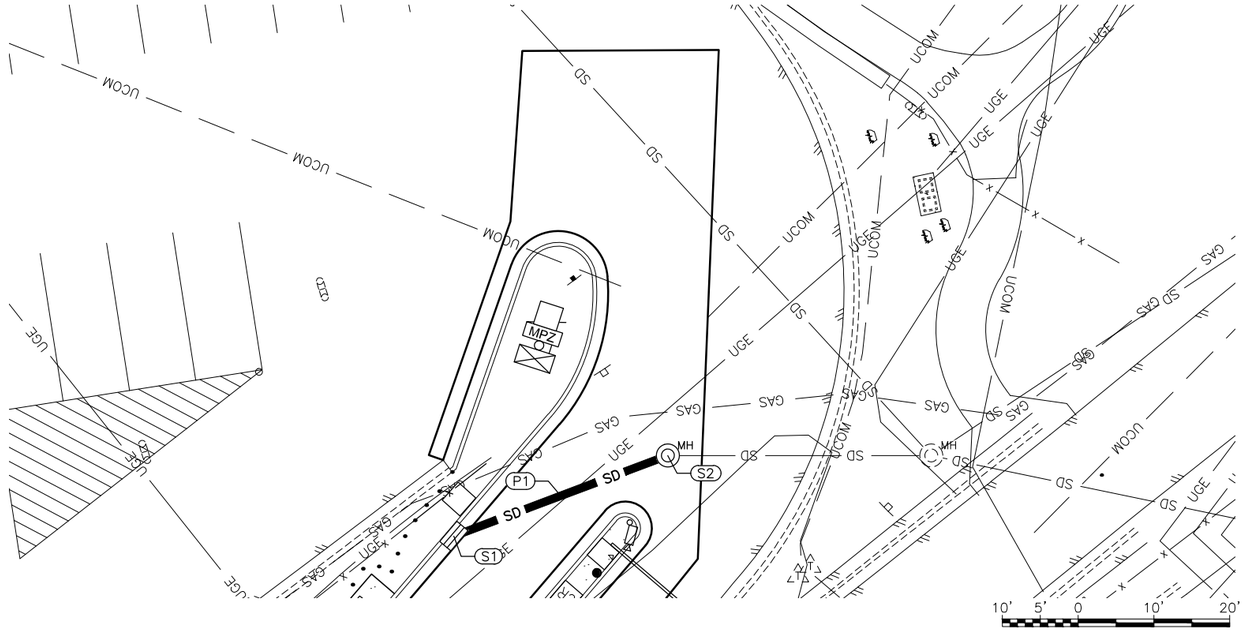
PROJECT No. CSAPT01183
AIP No. ----
ELASTOMERIC REPAIR DETAILS

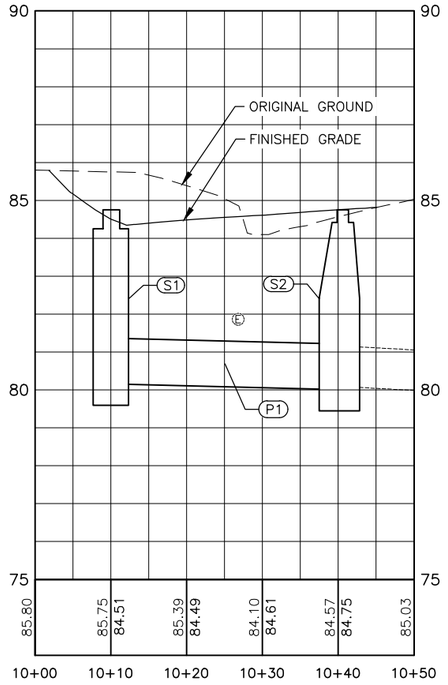
DATE: MARCH 2025

SHEET: 15 OF 17

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:28 AM
Layout Name: 15
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-Elastomeric Details.dwg





HORIZONTAL TO VERTICAL
SCALE RATIO 1:5

SHEET NOTES:

1. SEE SHEET 4 FOR STORM DRAIN PIPE AND STRUCTURE SUMMARY TABLES.
2. ELEVATIONS OF SHALLOW UTILITIES ARE APPROXIMATE.

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AREA IMPROVEMENTS
PROJECT No. CSAPT01183

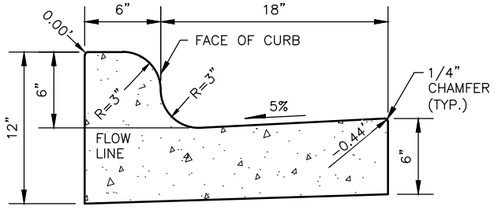
EMPLOYEE ENTRANCE STORM DRAIN

DATE: MARCH 2025

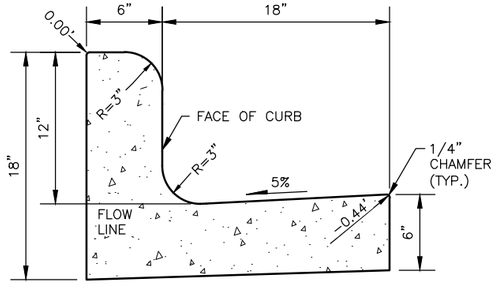
SHEET: 16 OF 17

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:30 AM
Layout Name: 16
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-Storm Drain-Employee Entrance.dwg

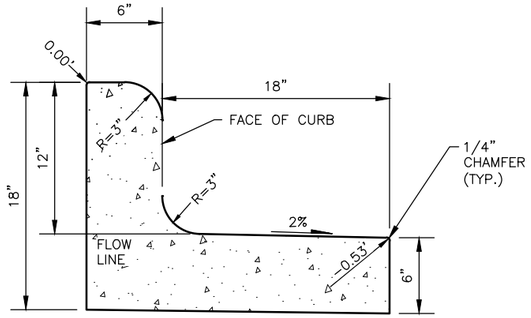


6" MOUNTABLE CURB & GUTTER



12" MOUNTABLE CURB & GUTTER

6" SPILL CURB & GUTTER



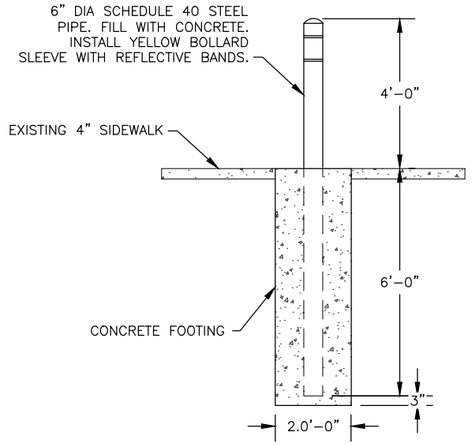
12" SPILL CURB & GUTTER

CURB & GUTTER NOTES:

1. PAYMENT FOR ALL CURB AND GUTTER SHALL BE PAID UNDER P610.035.0000 CURB AND GUTTER, TYPE 1.

1/17 CURB & GUTTER DETAILS

SCALE: NTS



2/17 BOLLARD DETAIL

SCALE: NTS

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BY	DATE	REVISION

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AREA IMPROVEMENTS
PROJECT No. CSAPT01183

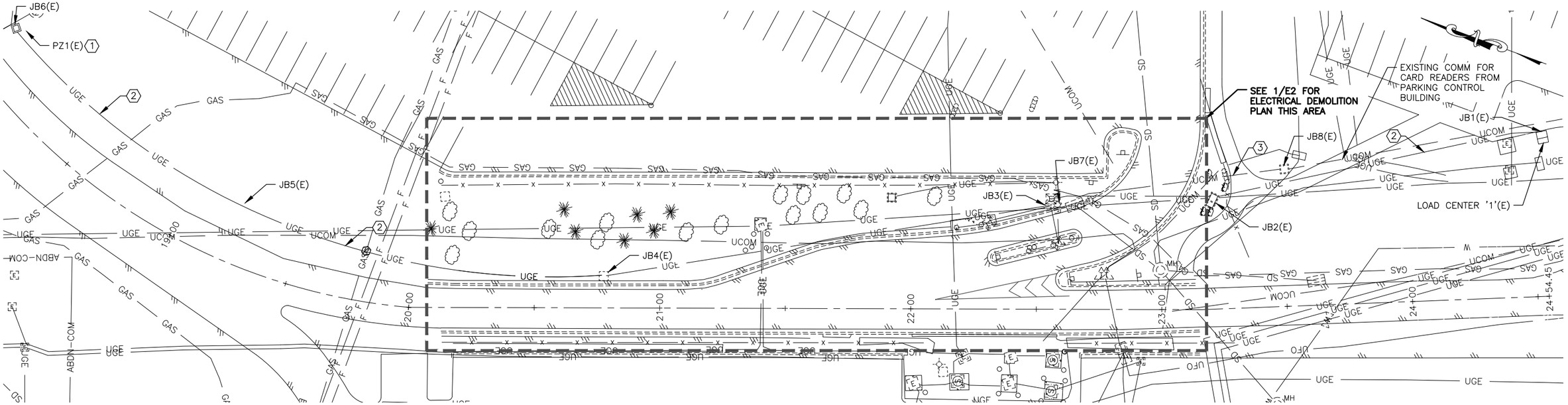
MISCELLANEOUS DETAILS

DATE: MARCH 2025

SHEET: 17 OF 17

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:31 AM
Layout Name: 17
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-Details.dwg



1
E1

ELECTRICAL DEMOLITION SITE PLAN

1"=20'

20' 10' 0 20' 40'

ELECTRICAL LEGEND

EXISTING	PROPOSED	
— UGE —	— UGE —	CONDUIT (UNDERGROUND)
— UCOM —	— UCOM —	COMMUNICATION LINE (UNDERGROUND)
□	□	TYPE IA JUNCTION BOX
▣	▣	TYPE II JUNCTION BOX
⊡		LOAD CENTER
MPZ	MPZ	MINI-POWER ZONE
	⊠	COMMUNICATION PANEL
	▭	CAMERA
	⌐	GATE OPERATOR
	CR	GATE CARD READER
	⬡	SHEET NOTE
	XX	CONDUIT TAG
		RECEPTACLE
		DATA PORT

⬡ SHEET NOTES:

1. DISCONNECT AND REMOVE FEEDER FROM SECONDARY UNIT SUBSTATION PZ1 BACK TO LOAD CENTER '1', PRESERVE CONDUIT.
2. REMOVE CONDUCTORS BACK TO LOAD CENTER '1'. PRESERVE CONDUIT.
3. DISCONNECT AND PULL BACK CARD READER CONDUCTORS BACK TO JUNCTION BOX JB8(E). PRESERVE CONDUIT.

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AREA IMPROVEMENTS
PROJECT No. CSAPT01183

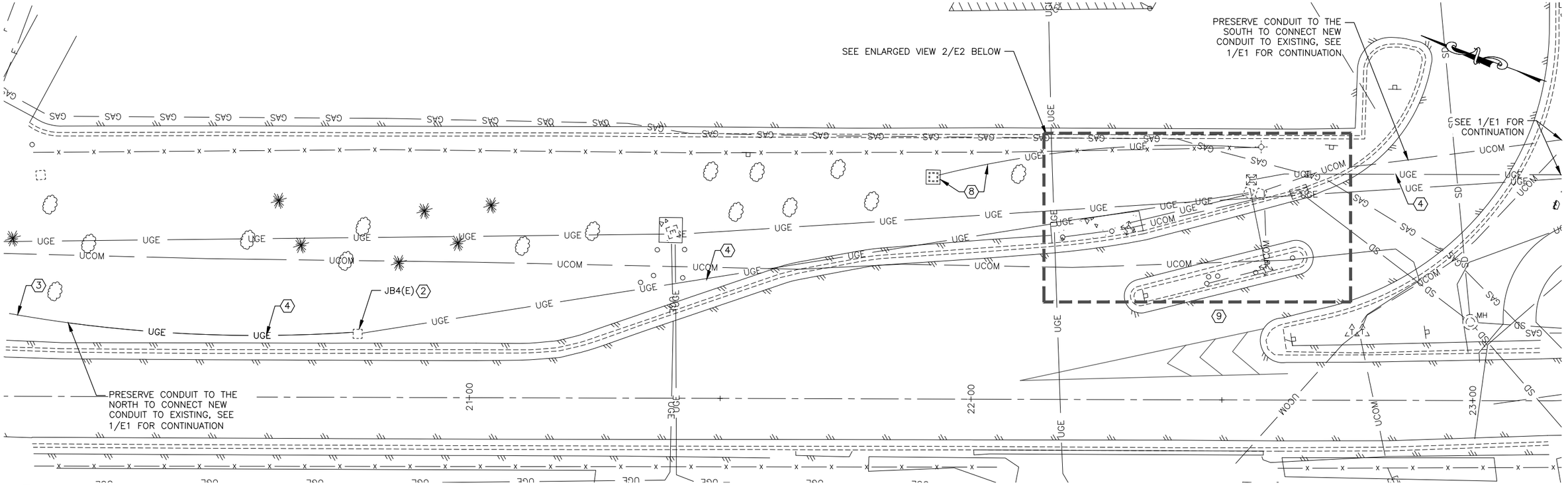
ELECTRICAL DEMOLITON SITE PLAN

DATE: MARCH 2025

SHEET: E1 OF E9

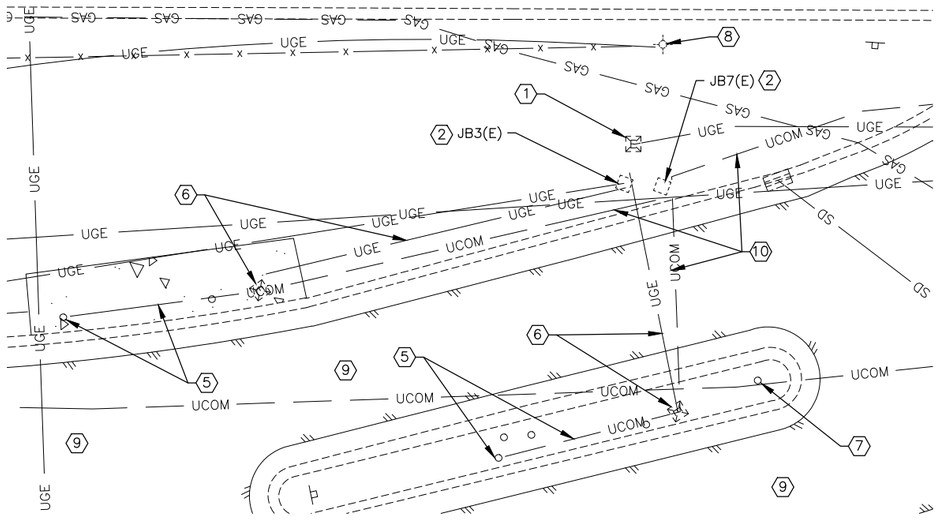
Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/10/2025 8:10 AM
Layout Name: E1
File Path and Name: J:\JobsData\30209.08 Anc South Terminal Employee Entrance\00 CADD\01 Working Set\03 Electrical\011183-ANC-Electrical.dwg



1/E2 ELECTRICAL DEMOLITION PLAN – EMPLOYEE ENTRANCE

10' 5' 0 10' 20'



2/E2 ENLARGED VIEW

5' 2.5' 0 5' 10'

SHEET NOTES:

1. DEMOLISH MINI–POWER ZONE.
2. DEMOLISH JUNCTION BOX.
3. REMOVE CONDUCTORS BACK TO LOAD CENTER '1'. PRESERVE CONDUIT.
4. REMOVE EXISTING CONDUCTORS AND CONDUIT THAT INTERFERES WITH NEW WORK. ABANDONED CONDUIT THAT DOES NOT INTERFERE WITH NEW WORK.
5. DISCONNECT AND PULL BACK CARD READER CONDUCTORS THOUGH JB7(E) AND BACK TO JB8(E) ON 1/E1. DEMOLISH CARD READERS AND ASSOCIATED CONDUIT BACK TO GATE OPERATOR.
6. DEMOLISH EXISTING GATE OPERATOR AND ASSOCIATED POWER CONDUIT AND CONDUCTORS BACK TO MINI–POWER ZONE BEING DEMOLISHED (SEE NOTE 1).
7. REMOVE CAMERA AND STORE FOR REINSTALLATION. DEMOLISH ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO ANTENNA ON LIGHT POLE BEING RELOCATED (SEE NOTE 8).
8. DISCONNECT AND REMOVE LIGHT POLE AND STORE FOR INSTALLATION AT NEW LOCATION. DEMOLISH FOUNDATIONS. PULL BACK CONDUCTORS TO JUNCTION BOX TO THE NORTHWEST AND PRESERVE CONDUIT THAT DOES NOT INTERFERE WITH NEW WORK. PRESERVE ANTENNA ON POLE.
9. DEMOLISH GATE LOOPS.
10. PULL BACK CARD READER CONDUCTORS THOUGH JB7(E) AND BACK TO JB8(E) ON 1/E1. DEMOLISH CONDUIT THAT INTERFERES WITH NEW WORK AND PRESERVE CONDUIT TO THE SOUTH AS NOTED ON THE PLANS.

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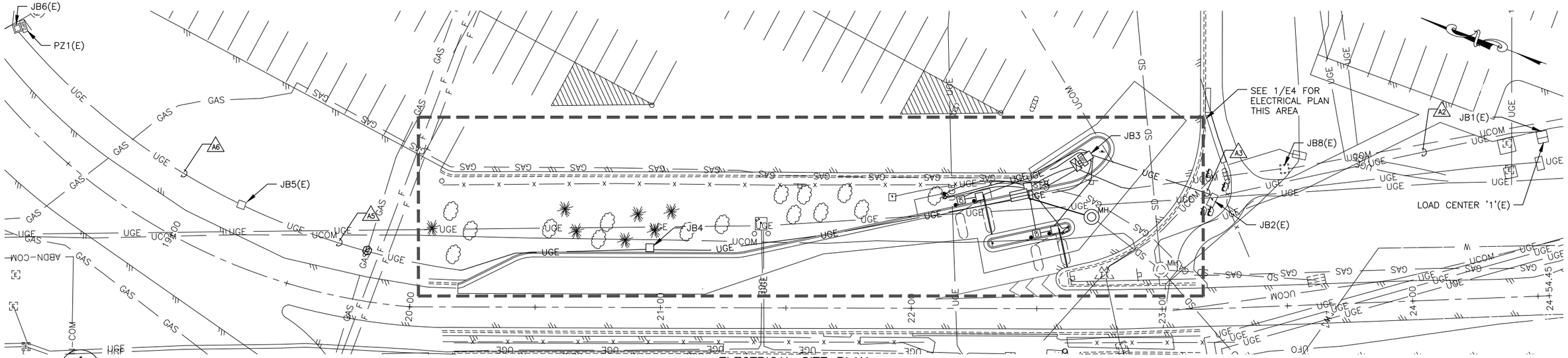
ANC SOUTH TERMINAL EMPLOYEE PARKING AREA IMPROVEMENTS
PROJECT No. CSAPT01183
ELECTRICAL DEMOLITION PLAN – EMPLOYEE ENTRANCE

DATE: MARCH 2025
SHEET: E2 OF E9

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/10/2025 8:10 AM
Layout Name: E2
File Path and Name: J:\JobsData\30209.08 Anc South Terminal Employee Entrance\00 CADD\01 Working Set\03 Electrical\01183-ANC-Electrical.dwg



1
E3

ELECTRICAL SITE PLAN

20' 10' 0 20' 40'

GENERAL NOTES:

1. SEE SHEET E4 FOR CONDUIT SCHEDULE.
2. ALL WORK AND MATERIALS ASSOCIATED WITH RESERVING SECONDARY SUB STATION PZ1 TO POWER SHALL BE SUBSIDIARY TO PAYMENT ITEM F171.010.0000 POWER GATE OPERATOR SYSTEM.

Designed By: -
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Date Revised: 3/10/2025 8:10 AM
Layout Name: E3
File Path and Name: J:\JobsData\30209.08 Anc South Terminal Employee Entrance\00 CADD\01 Working Set\03 Electrical\01183-ANC-Electrical.dwg

STATE OF ALASKA
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Tyler R. Keene
EE-14401
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL882-AK

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ANC SOUTH TERMINAL EMPLOYEE PARKING AREA IMPROVEMENTS
PROJECT No. CSAPT01183

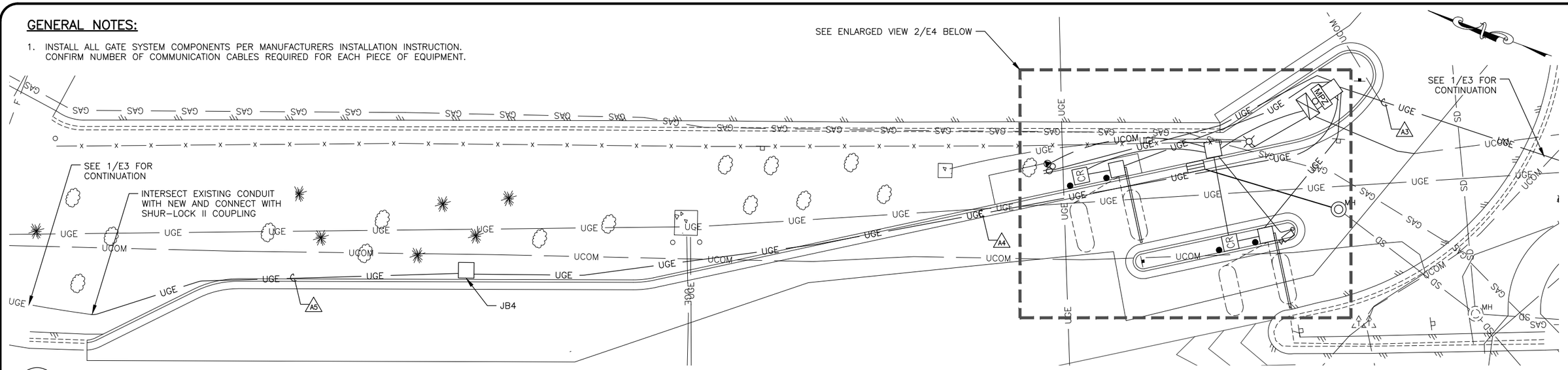
ELECTRICAL SITE PLAN

DATE: MARCH 2025

SHEET: E3 OF E9

GENERAL NOTES:

1. INSTALL ALL GATE SYSTEM COMPONENTS PER MANUFACTURERS INSTALLATION INSTRUCTION. CONFIRM NUMBER OF COMMUNICATION CABLES REQUIRED FOR EACH PIECE OF EQUIPMENT.



1 / E4

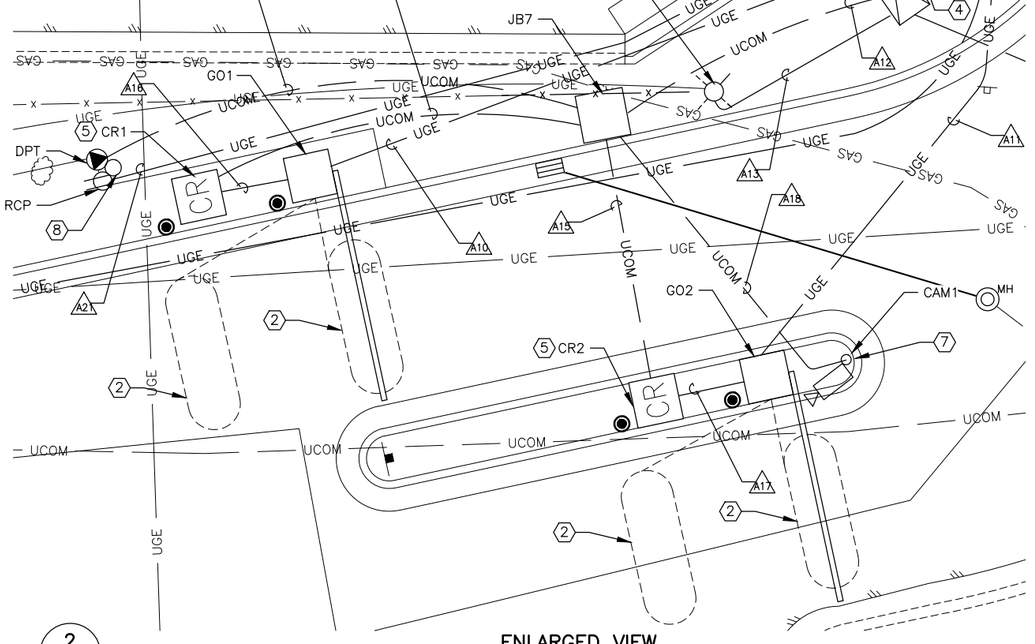
ELECTRICAL PLAN – EMPLOYEE ENTRANCE

POWER, LIGHTING & CONTROL CONDUIT SUMMARY						
CONDUIT	SHEET #	FROM	TO	SIZE	CONTAINS	LENGTH (FT)
A1	E3	LC1(E)	JB1(E)	2" EXISTING	2–3C8, 1C#8 GND	4
A2	E3	JB1(E)	JB2(E)	2" EXISTING	2–3C8, 1C#8 GND	130
A3	E3/E4	JB2(E)	JB3	2" RMC	2–3C8, 1C#8 GND	55
A4	E4	JB3	JB4	2" RMC	3C8, 1C#8 GND	185
A5	E3/E4	JB4	JB5(E)	2" RMC	3C8, 1C#8 GND	165
A6	E3	JB5(E)	JB6(E)	2" EXISTING	3C8, 1C#8 GND	145
A7	E3	JB6(E)	PZ1(E)	2" EXISTING	3C8, 1C#8 GND	6
A8	E4	JB3	PZ2	2" RMC	3C8, 1C#8 GND	6
				2" RMC	4–1C#10, 1C#10 GND	6
A9	E4	JB3	COMM1	1" RMC	2–1C#10, 1C#10 GND	4
A10	E4	JB3	GO1	1" RMC	2–1C#10, 1C#10 GND	45
A11	E4	JB3	GO2	1" RMC	2–1C#10, 1C#10 GND	35
A12	E4	COMM1	JB7	1-1/2" RMC	(7) CAT6 CABLES	4
A13	E4	COMM1	L1	3/4" RMC	COPPER COAX	4
A14	E4	JB7	CR1	3/4" RMC	(2) CAT6 CABLES	27
A15	E4	JB7	CR2	3/4" RMC	(2) CAT6 CABLES	17
A16	E4	CR1	GO1	3/4" RMC	2C#16 TWSH	10
A17	E4	CR2	GO2	3/4" RMC	2C#16 TWSH	10
A18	E4	JB7	CAM1	3/4" RMC	(1) CAT6 CABLE (POE)	17
A19	E4	JB7	ANT1	1" RMC	(1) COPPER COAX	25
A20	E4	JB7	DPT	1" RMC	(1) CAT6 CABLE	33
A21	E4	JB3	RCP	1" RMC	2–1C#10, 1C#10 GND	60
A22	E4	JB8(E)	COM1	1" RMC	EXISTING CARD REAER COMM CABLE*	85

* PULL EXISTING CABLE IN NEW/EXISTING FROM JB8(E) TO COM1.

ELECTRICAL POINTS SCHEDULE		
ITEM	STATION	OFFSET
PZ2/COM1 POST	22+67.0	58.5 LT
CR1	22+19.7	43.3 LT
CR2	22+50.0	29.9 LT
GO1	22+27.0	44.7 LT
GO2	22+57.2	31.5 LT
CAM1 POST	22+62.5	32.5 LT
DPT/RCP POST	22+14.0	45.0 LT
L1	22+53.7	50.5 LT

JUNCTION BOX SCHEDULE			
J–BOX No.	STATION	OFFSET	TYPE
JB1(E)	EXISTING		2
JB2(E)	EXISTING		2
JB3	22+70.3	60.8 LT	1A
JB4	20+95.7	23.8 LT	1A
JB5(E)	EXISTING		1A
JB6(E)	EXISTING		2
JB7	22+46.4	48.7 LT	1A
JB8(E)	EXISTING		1A



2 / E4

ENLARGED VIEW

5' 2.5' 0 5' 10'

10' 5' 0 10' 20'

SHEET NOTES:

1. 5KVA, 480V–DELTA:240/120V SECONDARY UNIT SUBSTATION IN NEMA 3R ENCLOSURE. THE SUBSTATION AND ALL ASSOCIATED WORK AND MATERIALS SHALL BE PAID FOR UNDER POWER GATE OPERATOR SYSTEM ITEM F171.010.0000.
2. GATE LOOPS, 2 PER GATE. LOOPS SHALL BE 2'X6' AND INSTALLED SO THAT ONE LOOP IS CENTERED UNDER THE GATE AND THE SECOND IS 11' UPSTREAM OF THE GATE. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS. LOOPS SHALL BE WIRED AS REVERSING LOOPS.
3. COMMUNICATION PANEL, NEMA 4X STAINLESS STEEL PANEL WITH BACKPLATE AND LOCKABLE COVER, SIZE AS REQUIRED. PROVIDE PANEL WITH THE FOLLOWING; NETWORK SWITCH FOR CARD READERS AND COMM PORT FOR GUARD SHACK CONNECT TO EXISTING CONDUCTORS FROM PARKING CONTROL BUILDING, WIRELESS MODEM TO ACCOMMODATE ALL CONNECTIONS REQUIRED FOR THE CAMERAS AND CONNECTION TO THE EXISTING COMMUNICATION SYSTEM, 400W HEATER, DUPLEX RECEPTACLE, TERMINAL BLOCKS AND ALL ADDITIONAL EQUIPMENT REQUIRED TO PROVIDE A FULLY FUNCTIONING SYSTEM. THE COMMUNICATION PANEL AND ALL ASSOCIATED WORK AND MATERIALS SHALL BE PAID FOR UNDER ACCESS CONTROL FOR VEHICLE GATE PAY ITEM F186.010.0010.
4. SEE SHEET E7 FOR POWER AND COMMUNICATION PANEL POST DETAILS.
5. INSTALL (2) ANC HID BADGE READERS, ONE HIGH FOR LARGER TRUCKS AND ONE LOW FOR REGULAR VEHICLES. SEE DETAIL 1 ON SHEET E6.
6. INSTALL NEW LIGHT FOUNDATION PER DETAIL 2, SHEET E6. INSTALL REMOVED POLE ON NEW FOUNDATION. INTERSECT EXISTING CONDUIT AND EXTEND INTO NEW FOUNDATION. PULL REMOVED CONDUCTORS FROM EXISTING JUNCTION BOX TO NEW FOUNDATION AND RECONNECT. INSTALL NEW CONDUIT TO CONNECT TO EXISTING CONDUIT ON EXTERIOR OF POLE TO CONNECT COMMUNICATION PANEL (COMM1) TO EXISTING ANTENNA ON LIGHT POLE. ALL WORK AND MATERIALS RELATED TO THE RELOCATION OF THE LIGHT POLE SHALL BE SUBSIDIARY TO PAYMENT ITEM F171.010.0000 POWER GATE OPERATOR SYSTEM.
7. MOUNT REMOVED CAMERA ON NEW STEEL POLE WITH CONCRETE FOUNDATION.
8. POWER AND COMMUNICATION GUARD SHACK POST, INSTALL PER DETAIL 4, SHEET E6.

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PROJECT No. CSAPT01183

ELECTRICAL PLAN – EMPLOYEE ENTRANCE

DATE: MARCH 2025

SHEET: E4 OF E9

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/10/2025 8:10 AM
Layout Name: E4
File Path and Name: J:\Jobs\Data\30209.08 Anc South Terminal Employee Entrance\00 CADD\01 Working Set\03 Electrical\01183-ANC-Electrical.dwg

SUMMARY OF NEW SECONDARY UNIT SUBSTATION: PZ2

LOCATION DATA: FIELD LOCATE

POWER SOURCE: LOAD CENTER '1'

SIZE: 5 kVA

PRIMARY VOLTAGE: THREE PHASE, 480V

PRIMARY MAIN BREAKER: 480V, 3 POLE, 40 AMP

SECONDARY VOLTAGE: THREE PHASE, 4 WIRE, 208Y/120V

SECONDARY MAIN BREAKER: 208V, 3 POLE, 60 AMP

A.I.C. RATING: 18,000 AMPS

LOAD SCHEDULE

CIRCUIT NUMBER	DESCRIPTION	LOAD KVA	BREAKER AMPS	BREAKER POLES
1	GATE OPERATOR GO1	0.5	20*	2
2		0.5		
3	GATE OPERATOR GO2	0.5	20*	2
4		0.5		
5	COMMUNICATION PANEL	0.7	20	1
6	GUARD SHACK RECEPTACLE	0.2	20	1
7	SPARE		20	1
8	SPARE		20	1
TOTAL KVA = 2.9				
TOTAL AMPS = 8.0				

*COORDINATE BREAKER SIZE WITH GATE OPERATOR BEING SUPPLIED.

SUMMARY OF EXISTING LOAD CENTER: 1

LOAD CENTER TYPE: 1A

SERVING UTILITY: CEA

LOCATION DATA

LOCATION DATA: PARKING LOT

POWER SOURCE: SC-AIA2

CONTROL: PHOTOELECTRIC CONTROL ON ELECTROLIER #221

SERVICE VOLTAGE: 3 PHASE, 4 WIRE, 480V AC WITH GROUNDED NEUTRAL

PROVIDE METER SOCKET: YES

A.I.C. RATING: 22,000 AMPS

MAIN BREAKER A: 480 VOLT, 3 POLE, 100 AMP

MAIN BREAKER B: 480 VOLT, 3 POLE, 100 AMP

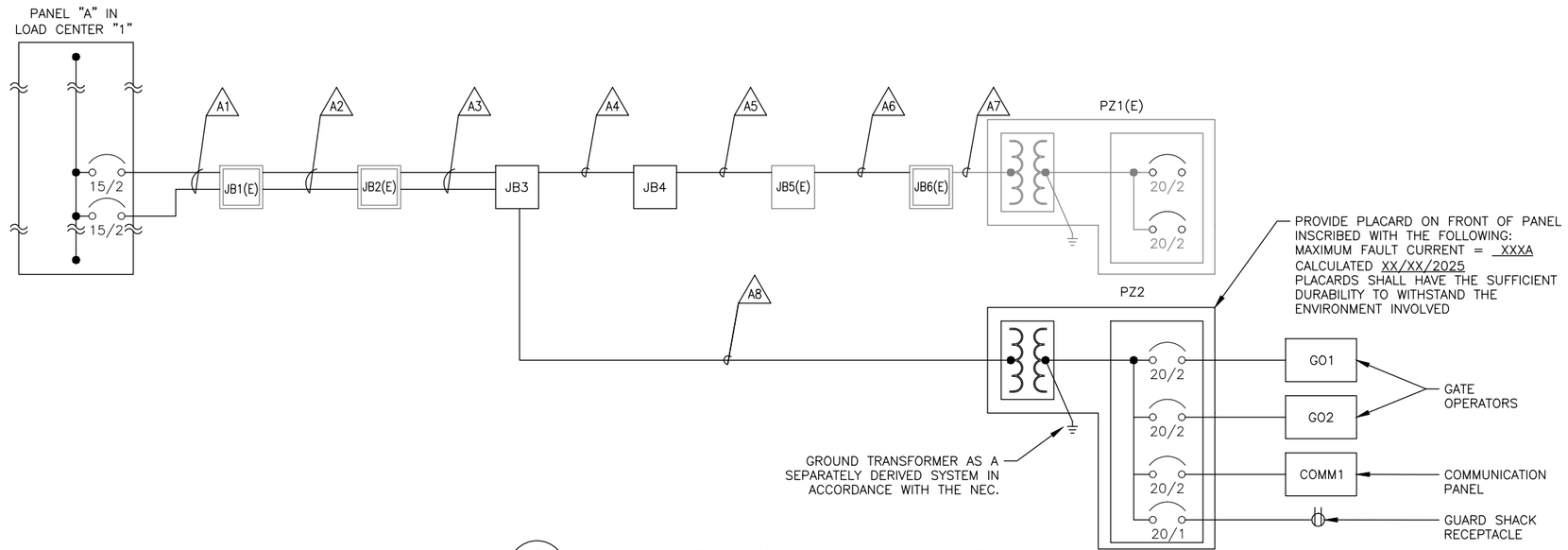
CONTACTOR PANEL B: 600 V, 3 POLE, 100 AMP

LOAD SCHEDULE

CIRCUIT NUMBER	LOAD PANEL A DESCRIPTION	LOAD KVA	BREAKER AMPS	BREAKER POLES
1A-1	BUS SHELTLER #1 MINI-POWER ZONE	3.0	15	2
1A-2		0.1	15	2
1A-3	BUS SHELTLER #2 MINI-POWER ZONE	3.0	15	2
1A-4	SPARE	0.0	15	2
1A-5	GATE, #1,2 MINI-POWER ZONE	5.0	15	2
1A-6	EM GATE MINI-POWER ZONE, PZ2	3.0	15	2
1A-7	IRRIGRATION CTL MINI-POWER ZONE	3.0	15	2
1A-8	FM GATE MINI-POWER ZONE, PZ1	5.0	15	2
1A-9	RECP	3.0	20	1
1A-10	PNL	10.0	60	3
1A-11				
1A-12				
1A-13				
TOTAL KVA = 35.1				
TOTAL AMPS = 42.2				

LOAD SCHEDULE

CIRCUIT NUMBER	LOAD PANEL B DESCRIPTION	LOAD KVA	BREAKER AMPS	BREAKER POLES
1B-1	COMM. CURBSIDE & RENTAL PARKING	4.2	30	2
1B-2	COMM. CURBSIDE & RENTAL PARKING	10.4	30	2
1B-3	EMPLOYEE PARKING - WEST	8.8	30	2
1B-4	EMPLOYEE PARKING - EAST	7.5	30	2
1B-5	PARKING ACCESS	7.2	30	2
1B-6	PNL 1	2.8	60	3
1B-7	PNL 2	4.0	60	3
1B-8	SPARE	0.0	30	2
1B-9	SPARE	0.0	30	2
1B-10	SPARE	0.0	20	2
1B-11	SPARE	0.0	20	2
1B-12				
1B-13				
TOTAL KVA = 44.9				
TOTAL AMPS = 53.9				



1 / E5 PARTIAL POWER ONE-LINE DIAGRAM

NTS

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PROJECT No. CSAPT01183

ELECTRICAL SCHEDULES AND POWER ONE-LINE

DATE: MARCH 2025

SHEET: E5 OF E9

Designed By: -
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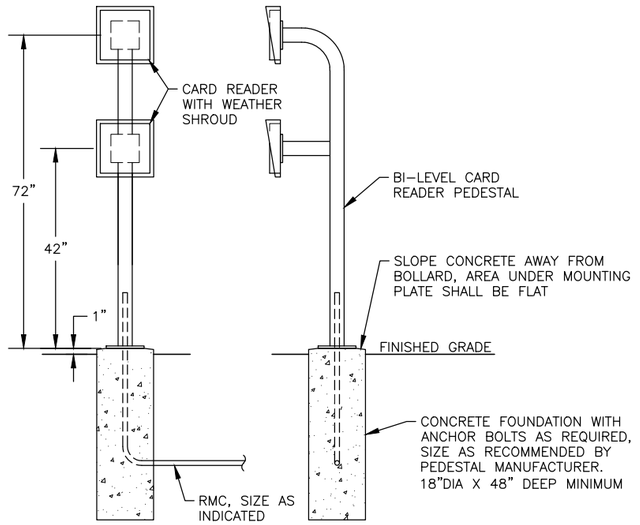
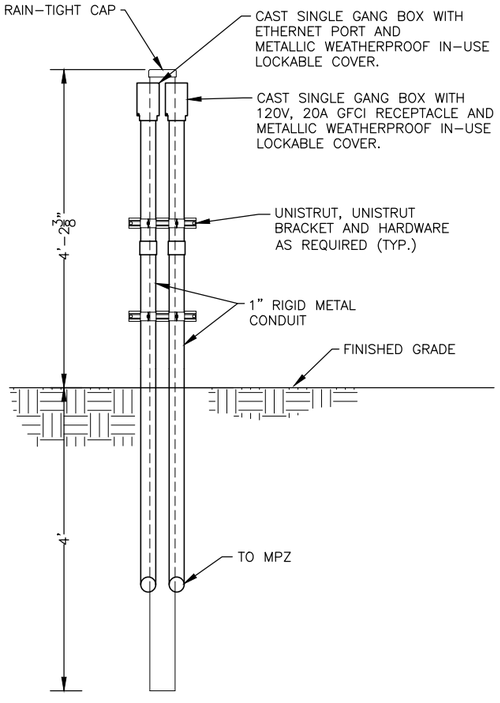


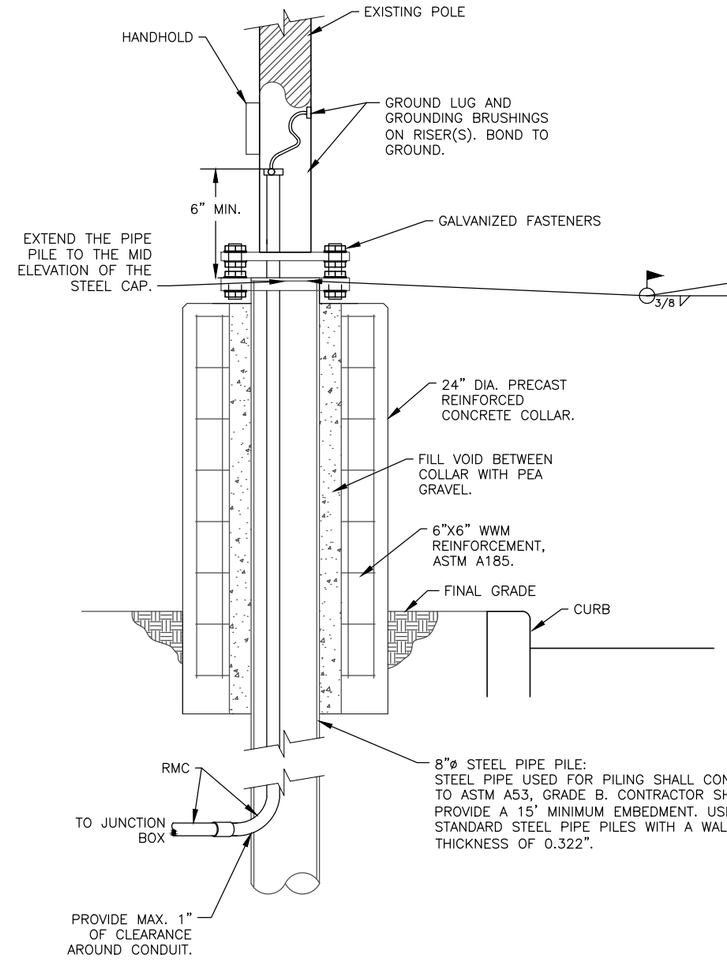
1 / E6 — CARD READER PEDESTAL DETAIL

NTS



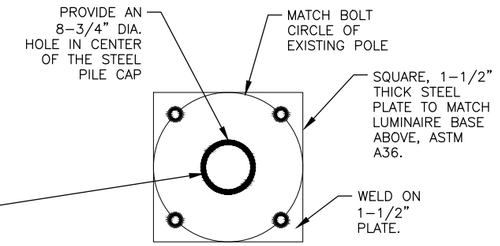
4 / E6 — POWER AND COMMUNICATION GUARD SHACK POST

SCALE: GRAPHIC



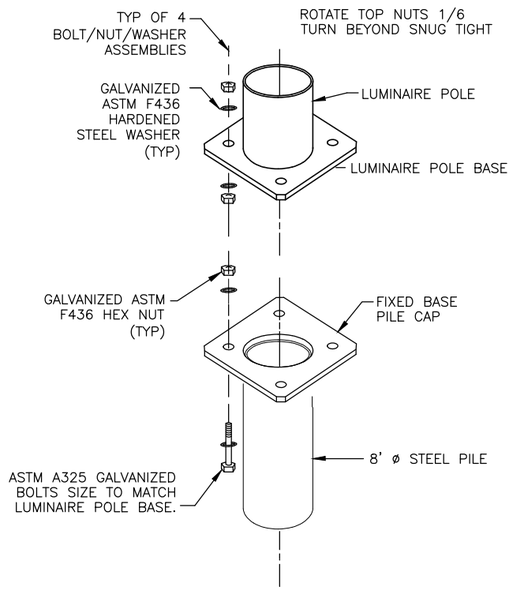
2 / E6 — LIGHT POLE FOUNDATION DETAIL

NTS



4 / E6 — PILING BASE PLATE DETAIL

NTS



3 / E6 — FIXED BASE ASSEMBLY DETAIL

NTS

Date Revised: -
Layout Name: E6
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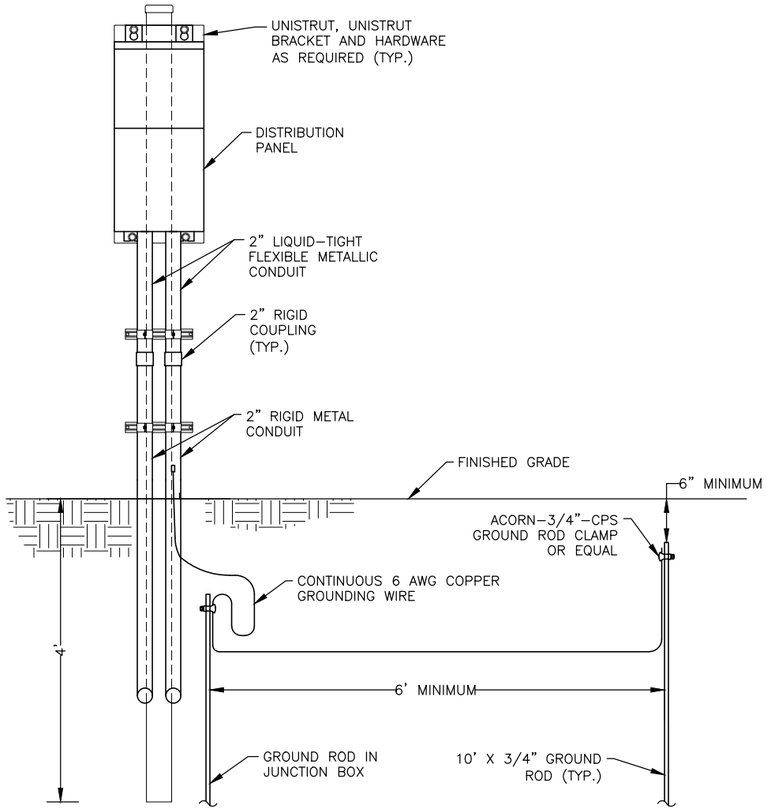
ELECTRICAL DETAILS

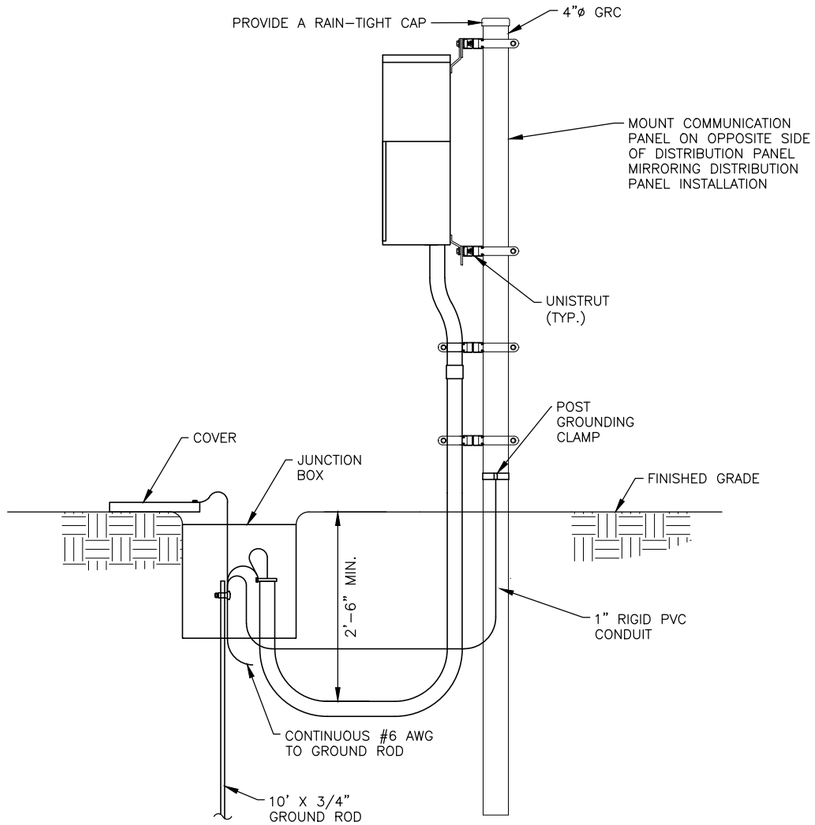
DATE: MARCH 2025

SHEET: E6 OF E9



1 / E7 POWER AND COMMUNICATION PANEL POST – FRONT VIEW

SCALE: GRAPHIC



2 / E7 POWER AND COMMUNICATION PANEL POST – SIDE VIEW

SCALE: GRAPHIC

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ELECTRICAL DETAILS

DATE: MARCH 2025

SHEET: E7 OF E9

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Checked By: -

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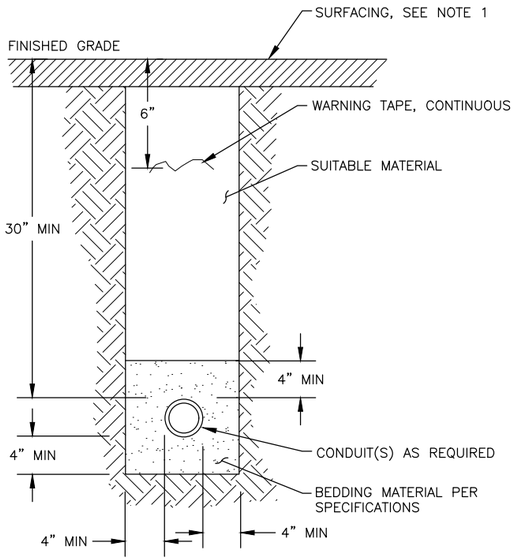
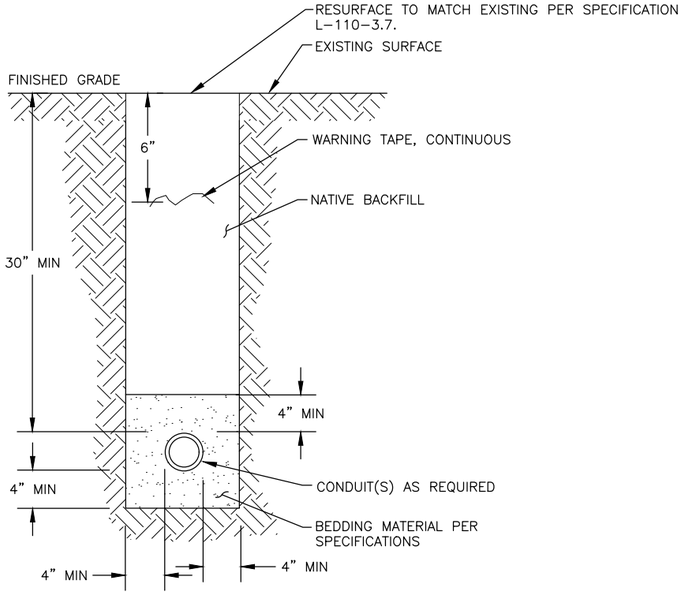


1 E8 CONDUIT BURIAL SECTION – PAVED AREAS

NTS

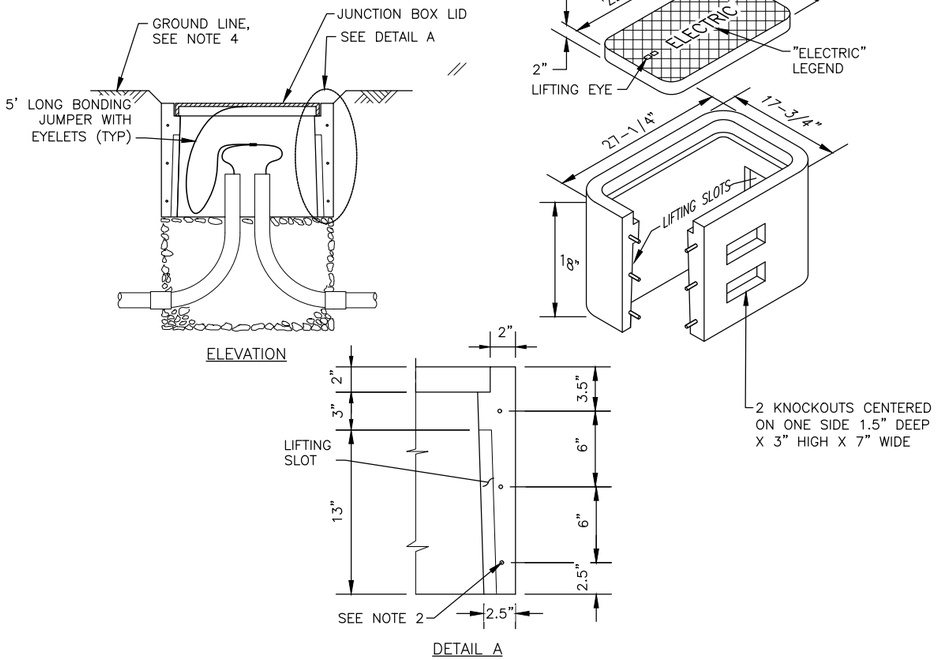


2 E8 CONDUIT BURIAL SECTION – NON–PAVED AREAS

NTS

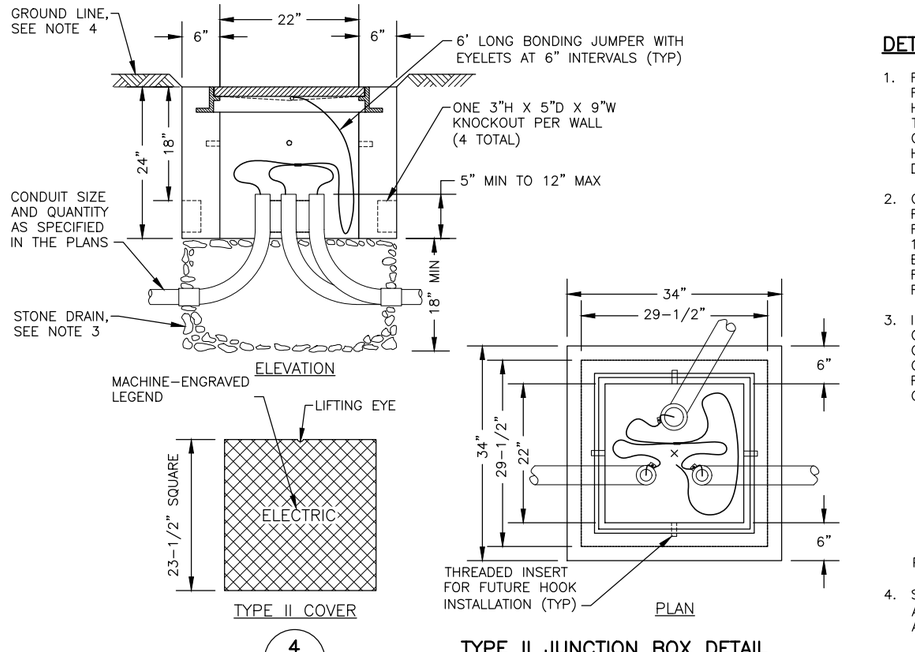
DETAILS 1 & 2 NOTES:

1. ALL SURFACING TO MATCH EXISTING CONDITIONS, SEE CIVIL FOR TOP SURFACING.
2. SEPARATION BETWEEN CONDUITS SHALL BE AS FOLLOWS:
   –CONDUIT OF SAME TYPE (POWER OR SIGNAL) – 2"
   –COMM/SIGNAL AND ANY OTHER CONDUIT – 18" MIN
3. UNDERGROUND WARNING TAPE SHALL BE 6" WIDE AND DETECTABLE.



3 E8 TYPE 1A JUNCTION BOX DETAIL

NTS



4 E8 TYPE II JUNCTION BOX DETAIL

NTS

DETAILS 3 & 4 NOTES:

1. FURNISH DOT&PF STANDARD JUNCTION BOX WITH CAST IRON FRAMES AND NON–SKID COVERS WITH LEGEND, RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. USE TYPE IA HANDHOLE FOR LESS THAN 12 INCHES TOTAL SUM OF CONDUIT DIAMETERS CONTAINED IN THE BOX, AND USE TYPE II HANDHOLE FOR 12 TO 25 INCHES TOTAL SUM OF CONDUIT DIAMETERS CONTAINED IN THE BOX.
2. CONSTRUCT JUNCTION BOXES USING CLASS A CONCRETE, REINFORCED AS SHOWN. SYNTHETIC STRUCTURAL FIBER–REINFORCED CONCRETE THAT COMPLIES WITH ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH. REINFORCEMENT SHALL CONSIST OF A 9–GAUGE WELDED WIRE FRAME OR 3 – 6 GAUGE HORIZONTAL WIRE LOOPS.
3. INSTALL DRAIN ROCK UNDER JUNCTION BOXES WHICH CONSISTS OF POROUS BACKFILL MATERIAL; GRAVEL CONSISTING OF CRUSHED OR NATURALLY OCCURRING GRANULAR MATERIAL CONTAINING NOT MORE THAN 1 PERCENT CLAY LUMPS OR READILY DECOMPOSED MATERIAL. DRAIN ROCK SHALL MEET GRADATION REQUIREMENTS AS FOLLOWS;

SIEVE DESIGNATION (SQUARE OPENINGS)	PERCENTAGE BY WEIGHT PASSING SIEVES
2–INCH	100
1–1/2 INCH	95–100
3/4 INCH	0–20
3/8 INCH	0–5

PROVIDE COMPACTION AS REQUIRED TO PREVENT SETTLEMENT.

4. SET JUNCTION BOXES 1" BELOW FINISHED GRADE IN PAVED AREAS; SET 1/2" BELOW FINISHED GRADE IN ALL OTHER AREAS.

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ELECTRICAL DETAILS

DATE: MARCH 2025

SHEET: E8 OF E9

Designed By: –
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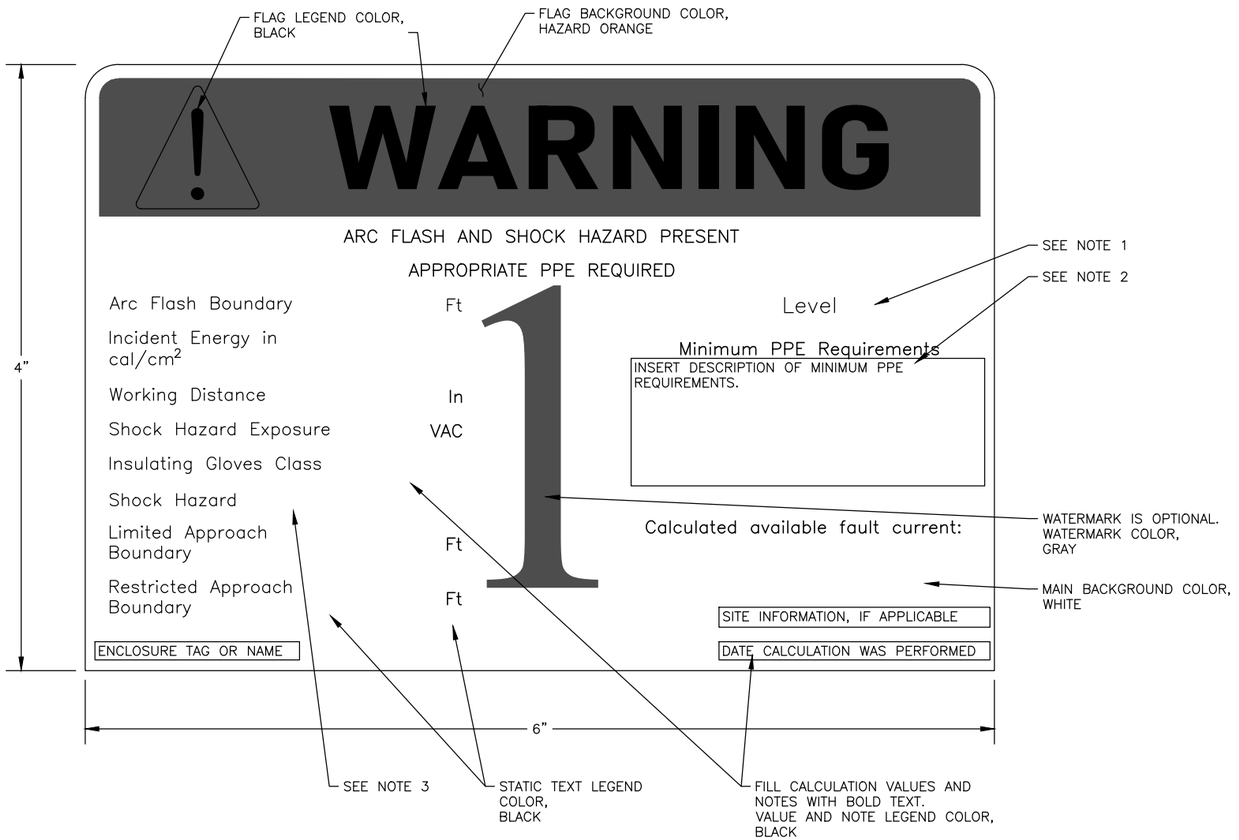
Date Revised: 3/10/2025 8:10 AM
Layout Name: E8
File Path and Name: J:\JobsData\30209.08 Anc South Terminal Employee Entrance\00 CADD\01 Working Set\03 Electrical\01183-ANC-Electrical.dwg



NOTES:

1. ELECTRICAL EQUIPMENT MUST BE LABELED WITH SITE–SPECIFIC PERSONAL PROTECTION EQUIPMENT (PPE) LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(c).
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. PROVIDE DESCRIPTION OF EQUIPMENT CONFIGURATIONS IN WHICH A HAZARD EXISTS. FOR EXAMPLE "WHEN COVER REMOVED."
4. PROVIDE LABELS PER THE TABLES ON THIS SHEET.

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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
ANCHORAGE, ALASKA
ANC SOUTH TERMINAL EMPLOYEE PARKING
AREA IMPROVEMENTS
PROJECT No. CSAPT01183

ARC FLASH DETAILS

DATE: MARCH 2025

SHEET: E9 OF E9

Designed By: -
Drawn By: -
Checked By: -

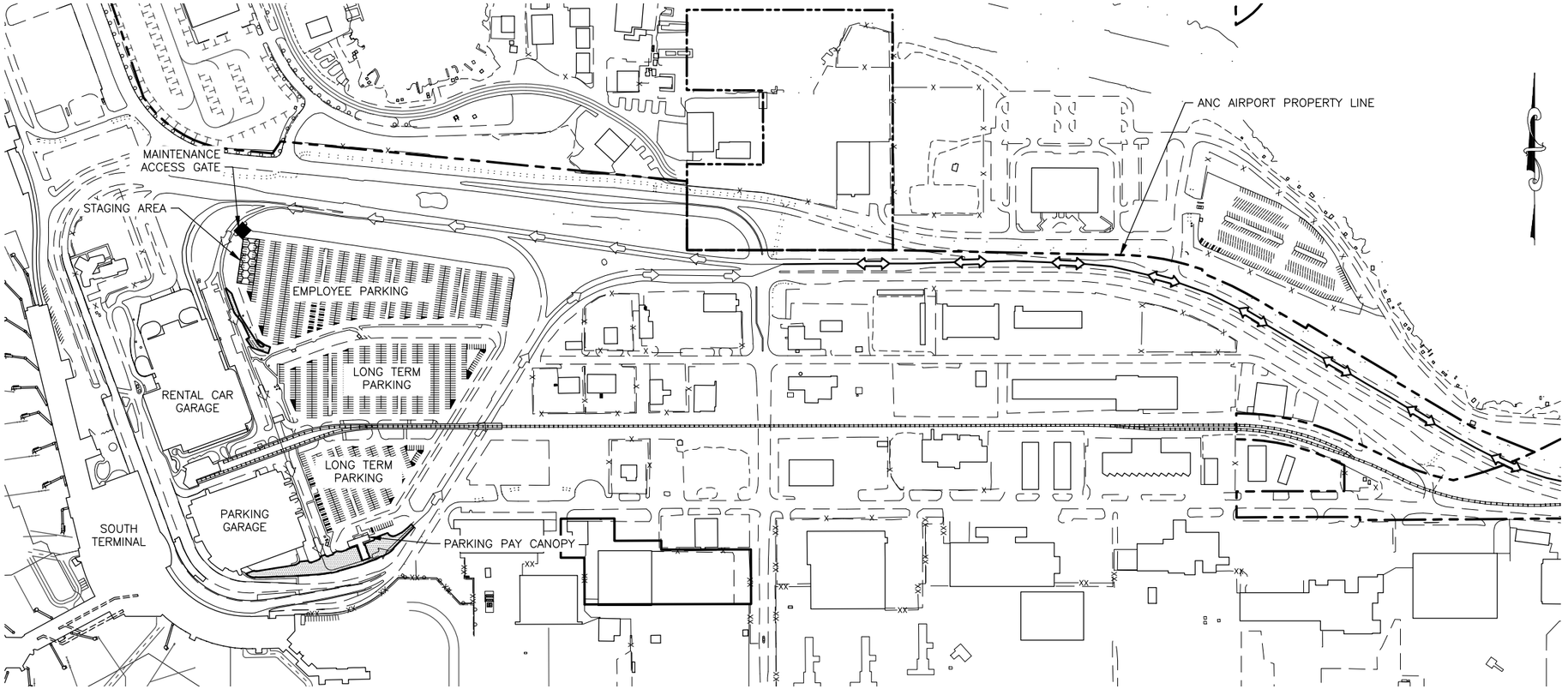
Date Revised: 3/10/2025 8:10 AM
Layout Name: E9
File Path and Name: J:\JobsData\30209.08 Anc South Terminal Employee Entrance\00 CADD\01 Working Set\03 Electrical\01183-ANC-Electrical.dwg

HAUL ROUTE NOTES:

1. SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL FROM ANC AIRPORT OPERATIONS AND ANC ENGINEERING PRIOR TO BEGINNING HAULING OPERATIONS.
2. THE HAUL ROUTE IS TO BE USED BY THE CONTRACTOR TO ACCESS THE PROJECT AND STAGING AREA ON ANC PROPERTY. ALTERNATE HAUL ROUTES MAY NOT BE USED WITHOUT APPROVAL FROM THE ENGINEER. FOLLOWING CONSTRUCTION COMPLETION, THE CONTRACTOR IS REQUIRED TO RESTORE THE HAUL ROUTE TO ITS ORIGINAL CONDITION. TEMPORARY ACCESS ROUTES MUST BE REMOVED AND THE GROUND RESTORED TO ITS ORIGINAL CONDITION.
3. HAUL ROUTES SHALL BE SWEPT AND KEPT CLEAR OF DEBRIS AT ALL TIMES AND AS DIRECTED BY THE ENGINEER.
4. UNCOVERED STOCKPILED MATERIAL WILL NOT BE PERMITTED WITHIN THE PROJECT LIMITS.
5. PERMISSION TO ACCESS THE ANC ORGANIC MATERIAL DISPOSAL SITE WILL BE GIVEN THROUGH THE ENGINEER.
6. ORGANIC MATERIAL DISPOSAL SITE SHALL BE SEEDED AND STABILIZED BY OCTOBER 1ST AND VACATED BY OCTOBER 15TH OF EACH SEASON.
7. STOCKPILE ALL EXCAVATED MATERIALS REMOVED AND NOT REUSED DURING CONSTRUCTION ON THE AIRPORT AS SHOWN.
8. ONLY SOIL IS TO BE DISPOSED OF IN DISPOSAL AREAS. PROCESSED ASPHALT SHALL BE PLACED AT THE RAP STOCKPILE. CONCRETE, AND OTHER MATERIALS SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR.
9. USE RAP FROM RAP STOCKPILE AT THE DISCRETION OF THE ENGINEER.

GENERAL SAFETY REQUIREMENTS

1. ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL OPERATE A FLASHING AMBER BEACON WHEN WORKING ON THE AIRPORT.
2. DAMAGE TO FAA FACILITIES INCLUDING POWER DISRUPTION SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE FAA AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR MUST REPORT SAFETY ISSUES TO THE ENGINEER AND AIRPORT OPERATIONS UPON DISCOVERY. THE CONTRACTOR MUST TAKE IMMEDIATE ACTION TO RESOLVE SAFETY ISSUES AS DIRECTED.
4. IMMEDIATELY REMOVE ALL FOREIGN OBJECTS AND 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, APRON SURFACES, AND TUG ROADS.
5. OTHER CONTRACTORS OR UTILITY COMPANIES MAY BE WORKING IN THE SAME PROJECT AREA OR IN THE VICINITY DURING THE PROGRESS OF THIS CONTRACT'S WORK. CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER CONTRACTORS OR UTILITY COMPANIES WORKING AT OR NEAR THE AIRPORT.
6. CONTRACTOR TO SURVEY EXISTING STAGING AREAS PRIOR TO CONSTRUCTION AND RETURN STAGING AREAS TO EXISTING ELEVATIONS ONCE CONSTRUCTION IS COMPLETE. STAGING AREAS ARE IN SNOW DISPOSAL SITES, SNOW PILES MAY BE PRESENT. CONTRACTOR SHALL VACATE THE STAGING AREAS BY LABOR DAY UNLESS APPROVED BY THE ENGINEER.



1
AC1

CSPP HAUL ROUTE

LEGEND

- PROJECT LIMITS
- PROPOSED HAUL ROUTE – TWO WAY
- PROPOSED HAUL ROUTE – ONE WAY
- VEHICLE ACCESS GATE
- STAGING AREA

STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER
Alma O. Abaza
CE-135451

PLANS DEVELOPED BY:
CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL882-AK

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
ANCHORAGE, ALASKA
ANC SOUTH TERMINAL EMPLOYEE PARKING AREA IMPROVEMENTS
PROJECT No. CSAPT01183

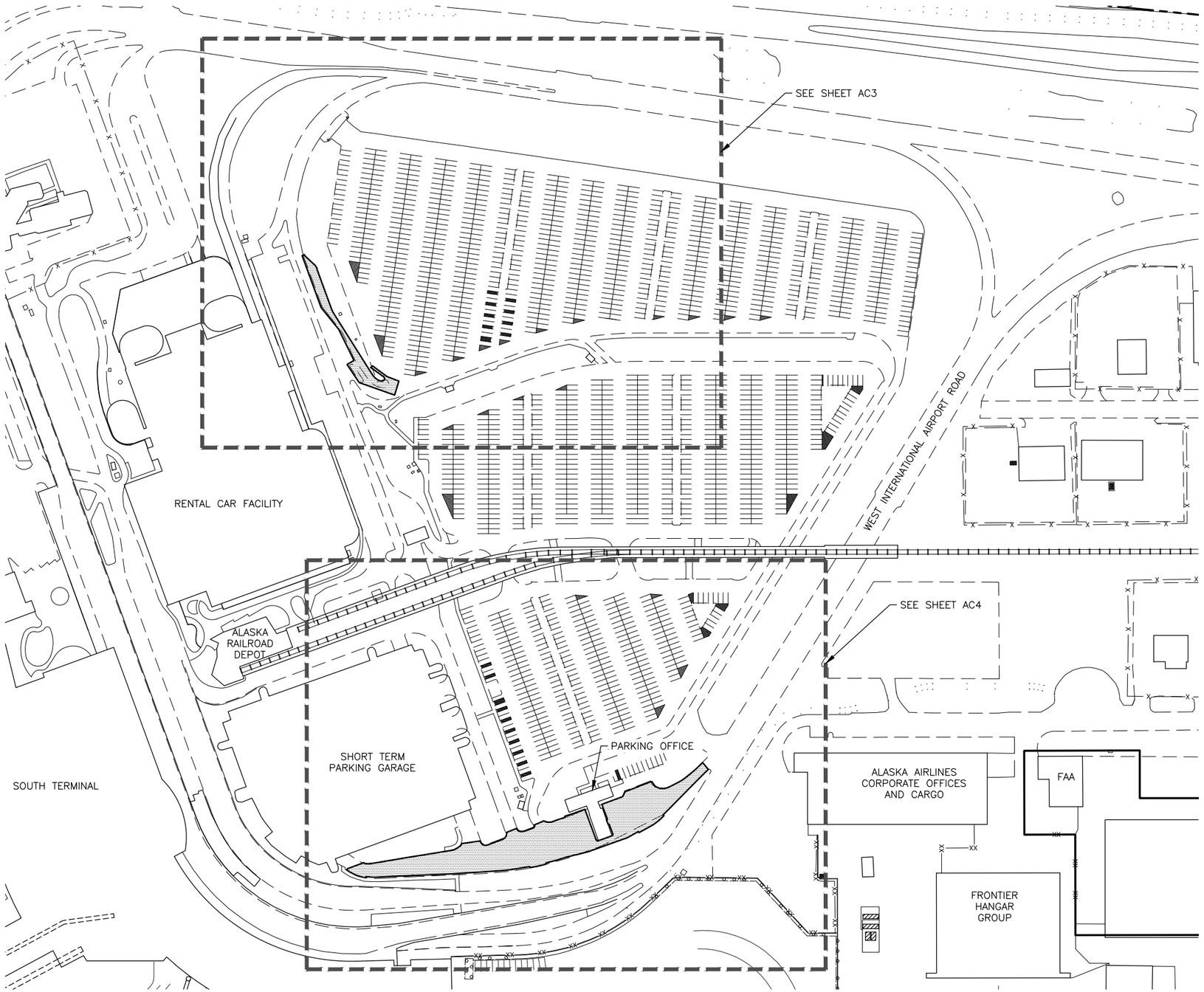
CSPP HAUL ROUTE

DATE: MARCH 2025

SHEET: AC1 OF AC4

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:35 AM
Layout Name: AC1
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-CSPP Haul Route.dwg



1
AC2

CSPP OVERVIEW

100' 50' 0 100' 200'

CONSTRUCTION PHASING SCHEDULE				
PHASE	DESCRIPTION	ESTIMATED DURATION (DAYS)	ALLOWABLE CONCURRENT PHASE	COMPLETION DATE
1	EMPLOYEE ENTRANCE	45	2	9/30/2025
2	PARKING GRARAGE EXIT	14	1	

SHEET NOTES:

1. 14 DAYS PRIOR TO BEGINNING WORK, NOTIFY AIRPORT OPERATIONS THROUGH THE ENGINEER.
2. PHASE CHANGES SHALL NOT OCCUR ON WEEKENDS.
3. ONCE COMPLETED, EACH PHASE SHALL REMAIN OPEN FOR THE DURATION OF THE PROJECT.
4. WORKING IN CONCURRENT PHASES IS NOT ALLOWED UNLESS SPECIFIED IN THE CONSTRUCTION PHASING SCHEDULE AND AUTHORIZED BY THE ENGINEER.
5. ALL WORK SHALL BE COMPLETED BY THE PROJECT COMPLETION DATE REGARDLESS OF PHASE DAY DURATIONS IN THE CONSTRUCTION PHASING SCHEDULE.

LEGEND

PROJECT LIMITS

STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER
Alma O. Abaza
CE-135451

PLANS DEVELOPED BY:
CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL882-AK

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
ANCHORAGE, ALASKA
ANC SOUTH TERMINAL EMPLOYEE PARKING AREA IMPROVEMENTS
PROJECT No. CSAPT01183
CSPP OVERVIEW

DATE: MARCH 2025
SHEET: AC2 OF AC4

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:36 AM
Layout Name: AC2
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-CSPP Overview.dwg

CSPP EMPLOYEE ENTRANCE

1
AC3

40' 20' 0 40' 80'

COMPLETE THE FOLLOWING PRIOR TO PHASE 1 CONSTRUCTION

- INSTALL TRAFFIC CONTROL DEVICES
- MAINTAIN OR INSTALL TEMPORARY POWER TO ACCESS GATE AND READERS
- INSTALL BMP'S PER CONTRACTOR'S APPROVED SWPPP

COMPLETE THE FOLLOWING DURING PHASE 1 CONSTRUCTION

- EXCAVATION OF PAVEMENT AND REMOVE CURB AND GUTTER
- REMOVE EXISTING SOUTH CARD READER
- CONSTRUCT NEW SOUTH CARD READER
- REMOVE EXISTING NORTH CARD READER
- CONSTRUCT NEW NORTH CARD READER
- CONSTRUCT NEW CURB AND GUTTER
- INSTALL PAVEMENT

COMPLETE THE FOLLOWING AFTER PHASE 1 CONSTRUCTION

- REMOVE TRAFFIC CONTROL DEVICES
- REMOVE BMP'S

SHEET NOTES:

1. 14 DAYS PRIOR TO THE BEGINNING OF EACH PHASE, NOTIFY AIRPORT OPERATIONS THROUGH THE ENGINEER.
2. ONCE COMPLETED EACH PHASE SHALL REMAIN OPEN FOR THE DURATION OF THE PROJECT.
3. SEQUENCE WORK AS NECESSARY TO MAINTAIN AT LEAST ONE ACTIVE CARD READER AND ACCESS INTO THE EMPLOYEE PARKING AREA. MORE INFORMATION AND DETAIL WILL BE PROVIDED AT PSE REVIEW.

LEGEND

PROJECT LIMITS

STATE OF ALASKA
49TH
Alma O. Abaza
CE-135451
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
(907) 562-3252
#AECL882-AK

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION
4111 AVIATION AVE., ANCHORAGE ALASKA 99502
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TED STEVENS ANCHORAGE
ANCHORAGE, ALASKA
ANC SOUTH TERMINAL EMPLOYEE PARKING AREA IMPROVEMENTS
PROJECT No. CSAPT01183

CSPP EMPLOYEE ENTRANCE

DATE: MARCH 2025

SHEET: AC3 OF AC4

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:40 AM
Layout Name: AC3
File Path and Name: J:\Jobs\Data\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-CSPP North And South.dwg

1
AC4

CSPP PARKING GARAGE EXIT

COMPLETE THE FOLLOWING PRIOR TO PHASE 2 CONSTRUCTION

- INSTALL TRAFFIC CONTROL DEVICES
- INSTALL BMP'S PER CONTRACTOR'S APPROVED SWPPP

COMPLETE THE FOLLOWING DURING PHASE 2 CONSTRUCTION

- MILL OR REMOVE EXISTING ASPHALT.
- REMOVE EXISTING CURB AND GUTTER
- CONSTRUCT CURB AND GUTTER
- NEW HMA PAVEMENT
- ELASTOMERIC REPAIR

COMPLETE THE FOLLOWING AFTER PHASE 2 CONSTRUCTION

- REMOVE TRAFFIC CONTROL DEVICES
- REMOVE BMP'S

SHEET NOTES:

1. 14 DAYS PRIOR TO THE BEGINNING OF EACH PHASE, NOTIFY AIRPORT OPERATIONS THROUGH THE ENGINEER.
2. ONCE COMPLETED EACH PHASE SHALL REMAIN OPEN FOR THE DURATION OF THE PROJECT.
3. SEQUENCE WORK AS NECESSARY TO MAINTAIN AT LEAST ONE EXIT FROM THE PARKING GARAGE AND ACCESS TO THE TICKET STATIONS WITHIN THE PARKING OFFICE. MORE INFORMATION AND DETAIL WILL BE PROVIDED AT PSE REVIEW.

LEGEND

PROJECT LIMITS

40' 20' 0 40' 80'

STATE OF ALASKA
49TH
Alma O. Abaza
CE-13545
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
CRW ENGINEERING GROUP
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ANCHORAGE, ALASKA 99503
(907) 562-3252
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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
ANCHORAGE, ALASKA
ANC SOUTH TERMINAL EMPLOYEE PARKING AREA IMPROVEMENTS
PROJECT No. CSAPT01183

CSPP PARKING GARAGE EXIT

DATE: MARCH 2025

SHEET: AC4 OF AC4

Designed By: -
Drawn By: -
Checked By: -

Date Revised: 3/7/2025 11:40 AM
Layout Name: AC4
File Path and Name: J:\JobsData\30209.08 ANC South Terminal Employee Entrance\00 CADD\01 Working Set\01 Civil\01183-ANC-CSPP North And South.dwg

GENERAL NOTES:

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

CORRUGATED CIRCULAR ALUMINUM PIPE

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 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

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

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

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

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

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

GENERAL NOTES

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

CORRUGATED CIRCULAR STEEL PIPE

CORRUGATED STEEL PIPE-ARCH

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

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

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

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

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

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PIPE AND ARCH TABLES

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

Adoption Date: 7/17/2020

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

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

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

GENERAL NOTES

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

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

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

State of Alaska DOT&PF
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PIPE AND ARCH TABLES

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

*¾ x ¾ x 7½ in. Corrugations

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

*¾ x ¾ x 7½ in. Corrugations

ALUMINUM SPIRAL RIB PIPE

STEEL SPIRAL RIB PIPE

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

*¾ x ¾ x 7½ in. Corrugations.

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

*¾ x ¾ x 7½ in. Corrugations

GENERAL NOTES

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

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PIPE AND ARCH TABLES

Adopted as an Alaska Standard Plan by: Carolyn Morehouse

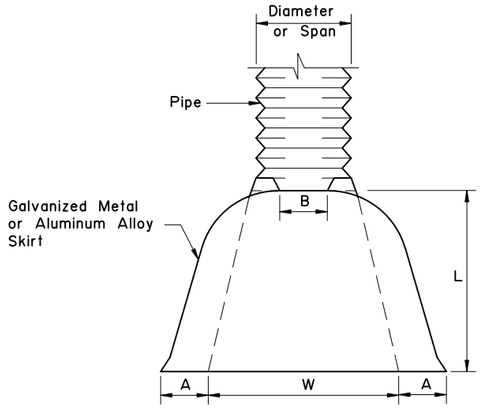
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

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

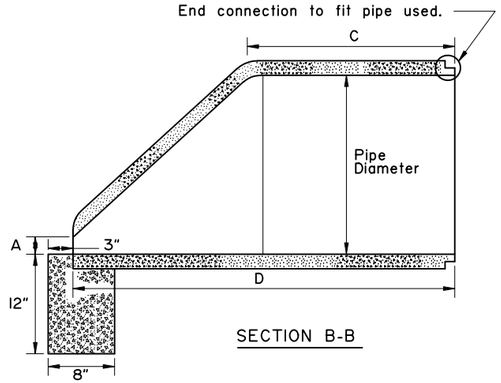
Next Code and Standards Review date: 7/8/2030

D-04.22



PLAN

ROUND AND PIPE ARCH

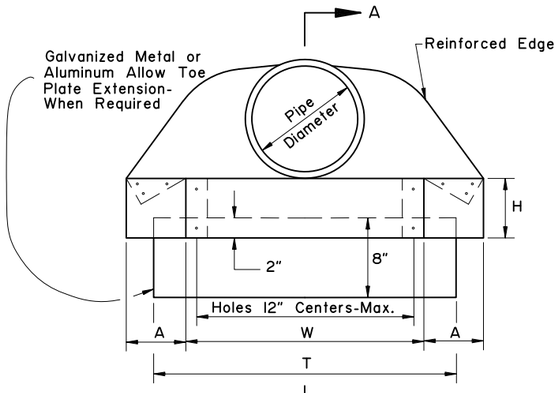


SECTION B-B

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"

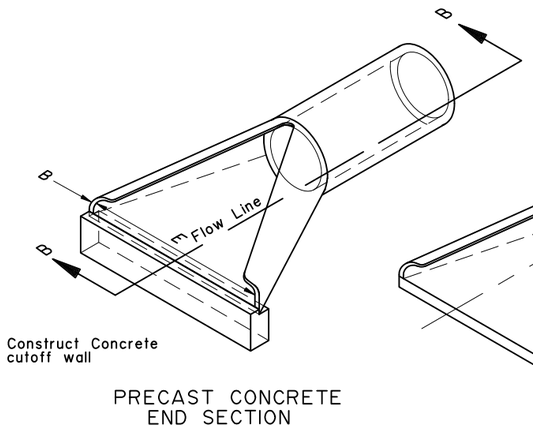
ROUND PIPE										
Pipe Diam. Inches	Thickness For Aluminum	Thk. for Galv. Metal	Dimension Inches A 1" Tol.	B Max.	H 1" Tol.	L 1 1/2" Tol.	W 2" Tol.	T 2" Tol.	Skirt	Approx. Slope
12"	0.060	0.064	6"	6"	6"	21"	24"	34"	1 Pc.	2 1/2
15"	0.060	0.064	7"	8"	6"	26"	30"	40"	1 Pc.	2 1/2
18"	0.060	0.064	8"	10"	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 Span	Rise	Thickness for Aluminum	Thk. for Galv. Metal	Dimension Inches A 1" Tol.	B Max.	H 1" Tol.	L 1 1/2" Tol.	W 2" Tol.	T 2" Tol.	Skirt	Approx. Slope
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

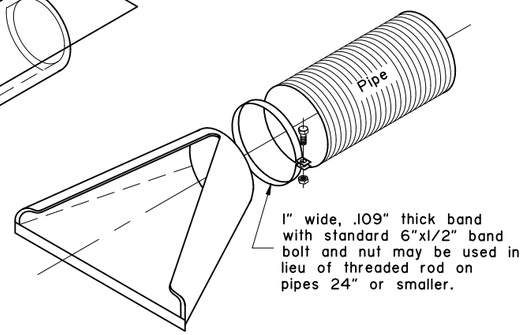


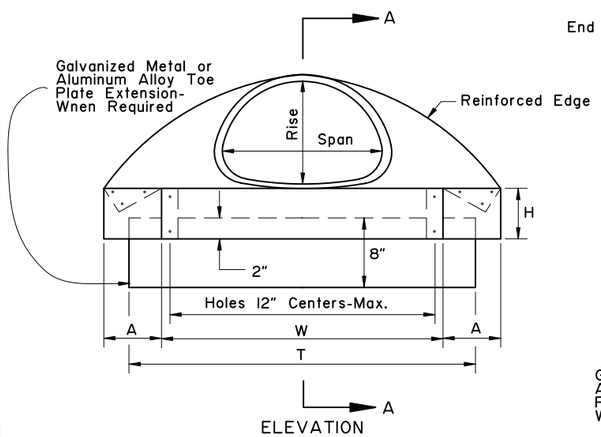
ELEVATION

ROUND PIPE



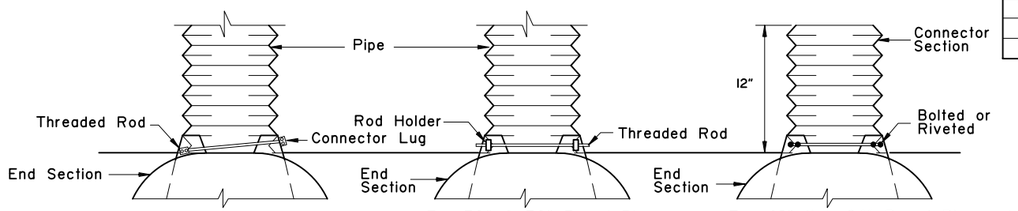
PRECAST CONCRETE END SECTION





ELEVATION

PIPE ARCH

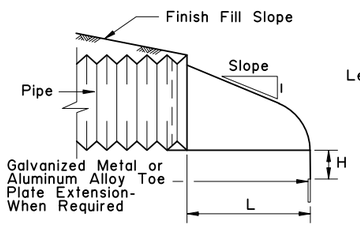


For 12" thru 24" Round Pipe with Annular Corrugations

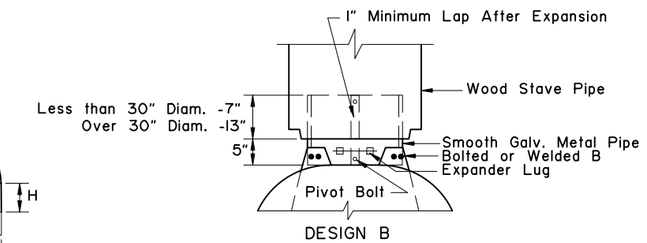
For 30" & 36" Round Pipe and 18"x11" thru 58"x36" Pipe Arch with Annular Corrugations.

For 42" thru 84" Round Pipe and 65"x40" thru 85"x54" Pipe Arch with Annular Corrugations and All Helically Corrugated Pipe and Pipe Arch.

DESIGN A



SECTION A-A



DESIGN B

METAL END SECTION CONNECTED TO WOOD STAVE PIPE

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

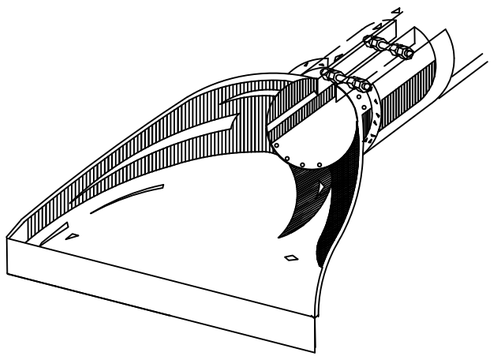
Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E. Chief Engineer

Adoption Date: 02/08/2019

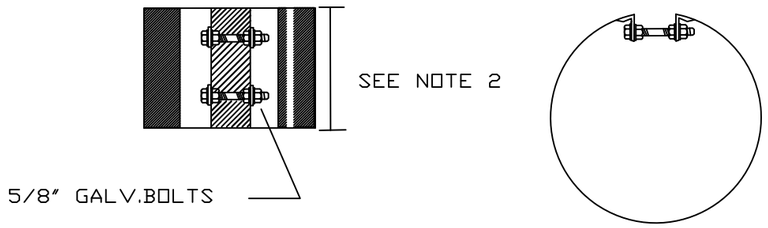
Last Code and Stds. Review By: Date:

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

D-06.10



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



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.

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

State of Alaska DOT&PF
ALASKA STANDARD PLAN

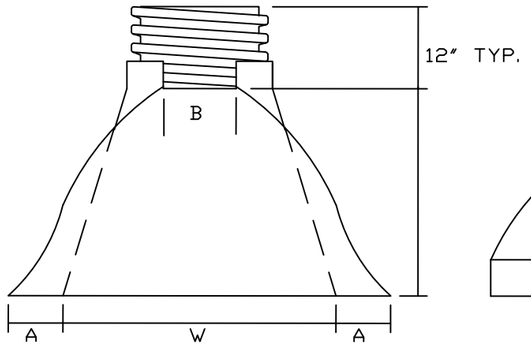
CULVERT END SECTIONS

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

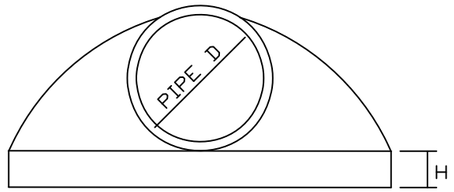
Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

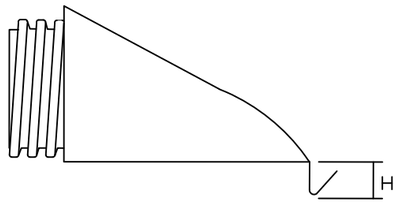
Next Code and Standards Review date: 02/08/2029



TOP VIEW



END VIEW



SIDE VIEW

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

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.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

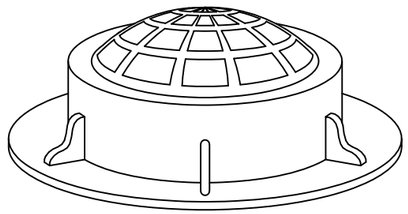
CULVERT END SECTIONS

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

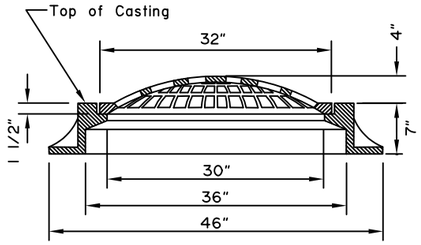
Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

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

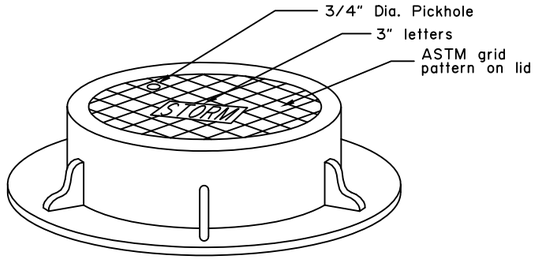


Surround field inlets with a 24" wide rock rubble collar 10" deep, 3" maximum size rock.



FIELD INLET FRAME & GRATE

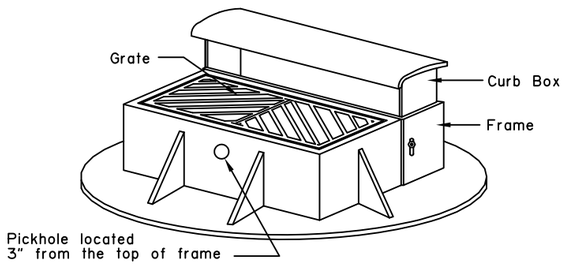
To be supplied for storm drain manholes where field inlets are specified. Field inlet frame and grate shall have a Minimum total weight of 525 lb.



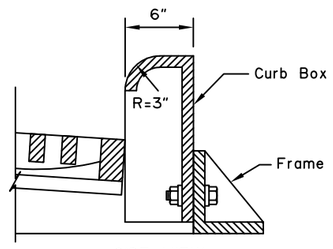
MANHOLE LID FRAME AND GRATE

NOTES:

1. Details shown are to indicate general design only. Dimensions and design may vary among the manufacturers, except that inlet grate shall be within ¼"± of dimensions shown on this drawing.
2. Manhole lids shall be 32" in diameter and may be used with field inlet frames.
3. Type A field inlet frame inside dimensions shall be 24" x 36". Lugs will not protrude outside the concrete surface of the inlet box.
4. Grates shall be bicycle safe. Where high capacity grates are called for on the plans, they shall conform to Std. Dwg. D-25.
5. Frame and grate casting types are identified by the following abbreviations:
   C.I. = Curb Inlet
   F.I. = Field Inlet
   M.H. = Manhole
6. Flowline depression shall conform to Std. Dwg. D-23 for an on grade or sag point conditions.
7. These are the default frames and grates to be used unless shown otherwise on the drainage plans or drainage structure summary.

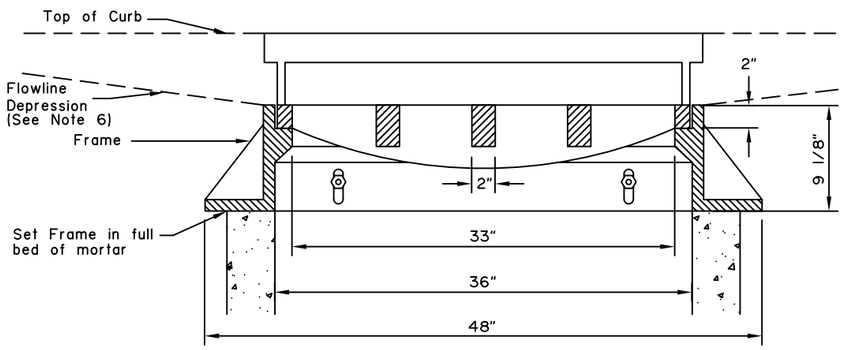


NOTE:
Curb Box, Grate and frame shall have a minimum total weight of 725 lb.

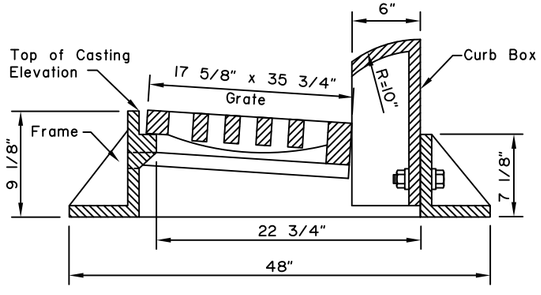


SIDE VIEW
MOUNTABLE CURB AND GUTTER

REQUIRED FRAME AND GRATES (See Note 7)			
STRUCTURE	INLET TYPE	CURB TYPE	TYPE FRAME AND GRATE
INLET BOX, TYPE A	Curb	Mountable	Standard Curb Inlet
	Curb	Expressway	Mountable Curb Inlet
	Curb	Rolled Curb	Depressed Inlet
	Field	------	Field Inlet
STORM DRAIN MANHOLES, TYPE I, II AND III	Curb	Mountable	Mountable Curb Inlet
	Curb	Expressway	Expressway Curb Inlet
	Curb	Rolled Curb	Depressed Inlet
	Field	------	Field Inlet
	Manhole Lids	------	Field Inlet Frame, Solid MH. Lid



FRONT VIEW



SIDE VIEW
EXPRESSWAY CURB AND GUTTER

CURB INLET FRAME AND GRATE

To be supplied for storm drain manholes Type I, Type II and Type III where curb inlets are specified.

NOT TO SCALE

State of Alaska DOT&PF
ALASKA STANDARD PLAN

STORMDRAIN MANHOLE FRAME AND GRATE DETAILS

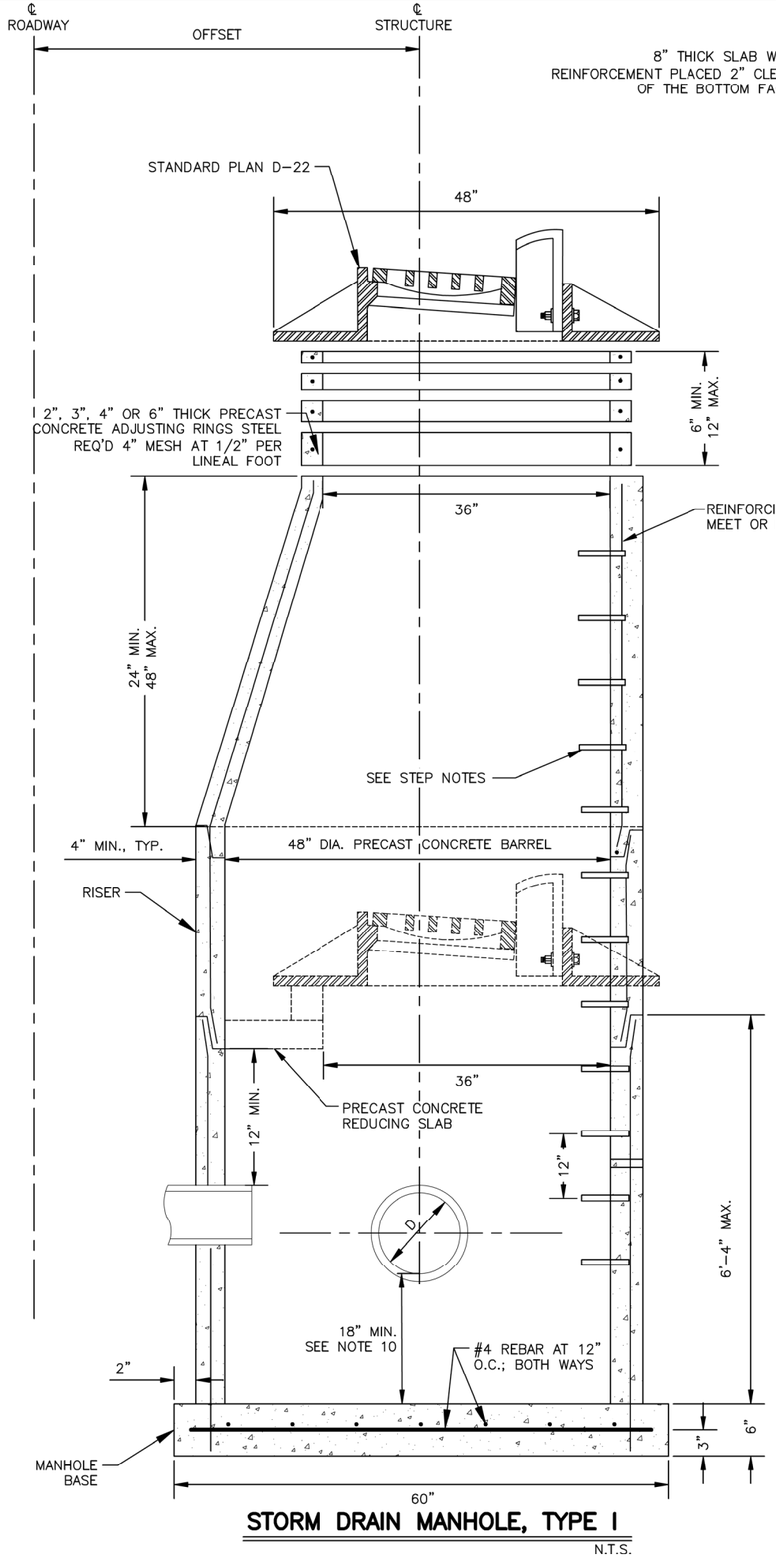
Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

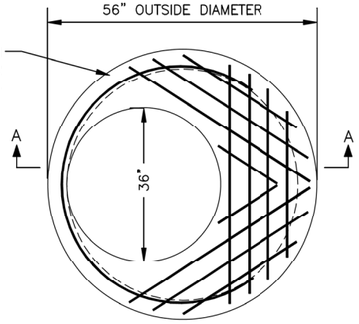
Next Code and Standards Review date: 02/08/2029

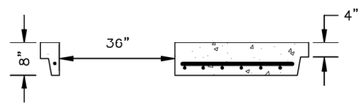
D-22.01



STORM DRAIN MANHOLE, TYPE I

N.T.S.





SECTION A-A

PRECAST CONCRETE REDUCING SLAB (48" TO 36")

N.T.S.

MANHOLE STEP NOTES:

1. MEET CURRENT OSHA STANDARDS FOR STEPS AND ACCESS OPENINGS.
2. PLACE STEPS 12" O.C. ON AN UNOBSTRUCTED SIDE OF THE STRUCTURE, 18" MAXIMUM FROM MANHOLE BASE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, PLACE BOTTOM STEP 6" OVER SMALLEST PIPE. WHEN USING A CONE, FIRST LADDER RUNG IS 8" MAXIMUM FROM TOP OF CONE. WHEN USING A FLAT LID, FIRST LADDER RUNG IS 4" MAXIMUM FROM TOP OF RISER.
3. PROVIDE INJECTION MOLDED POLYPROPYLENE COVERED GRADE 60 STEEL STEPS TIGHTLY IMBEDDED AT LEAST 3" INTO CONCRETE.
4. INSTALL STEPS TO RESIST A PULLOUT FORCE OF 1500 LB.
5. THE MINIMUM DIAMETER OF CLEAR ACCESS TO STEPS IS 24".
6. THE CONTRACTOR SHALL TAKE SPECIAL CARE FOR ANY MANHOLE THAT FALLS IN A CURB LINE TO SEE THAT WHEN MANHOLE IS OFFSET DURING INSTALLATION THAT THE STEPS FALL UNDER THE CURB INLET.

REDUCING SLAB NOTES:

1. SPACE ALL REBAR AT 6" CENTERS UNLESS OTHERWISE NOTED.
2. MAINTAIN A MINIMUM OF 1 1/2" OF CONCRETE COVER OVER ALL REBAR.
3. REINFORCING STEEL SHOWN IS A MINIMUM PER ASTM C478. PRECAST MFR TO COMPLETE AND SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR ENGINEER'S REVIEW.

GENERAL NOTES:

1. THESE DRAWINGS ARE FOR PRECAST REINFORCED CONCRETE FOR HIGHWAY USE. CAST IN PLACE STRUCTURES MAY BE USED AS APPROVED BY THE ENGINEER.
2. MEET THE REQUIREMENTS OF ASTM C-478 FOR ALL DRAINAGE STRUCTURES AND APPURTENANCES.
3. MINIMUM STEEL REQUIRED FOR BARREL AS PER ASTM C-478 SHALL BE IMBEDDED IN BASE SO THAT THE FIRST BARREL SECTION IS CONNECTED TO THE BASE BY CONTINUOUS STEEL. PROVIDE REINFORCING STEEL TYPE AND GRADE PER DOT&PF STANDARD SPECIFICATIONS.
4. USE CLASS A OR CLASS B CONCRETE PER DOT&PF STANDARD SPECIFICATIONS.
5. SEAL RISER JOINTS WITH FLEXIBLE PLASTIC JOINT SEALERS.
6. PROVIDE NON-SHRINK GROUT. PROTECT GROUT DURING CURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHOD.
7. FORM ALL BLOCK-OUTS.
8. MANHOLE SHALL HAVE A MINIMUM OF ONE 6" GRADE RING.
9. ALL STORM DRAIN MANHOLES AND INLETS SHALL HAVE 18" MINIMUM SUMPS. MANHOLES WITH PETROLEUM SEPARATORS SHALL HAVE 24" MINIMUM SUMPS.
10. OFFSET IS MEASURED TO CENTERLINE OF STRUCTURE.
11. EXTEND PIPE 2" INTO MANHOLE. SEAL PIPE PENETRATIONS WITH NON-SHRINKABLE GROUT MIXED WITH POTABLE WATER PER MANUFACTURER'S RECOMMENDATIONS.
12. CATCH BASIN LEADS SHALL ENTER THE MANHOLE AT LEAST ONE PRIMARY LEAD DIAMETER ABOVE THE TOP OF THE PRIMARY LEAD UNLESS MINIMUM PIPE SLOPES CANNOT BE ACHIEVED.
13. MAXIMUM PIPE DIAMETER SHALL NOT EXCEED HALF OF THE STRUCTURE DIAMETER. PRIMARY LEADS MUST BE A MINIMUM OF 135 DEGREES APART.
14. USE 72" STORM DRAIN MANHOLE OR LARGER WHEN BOTH CATCH BASIN AND ACCESS FUNCTIONS ARE REQUIRED.
15. LIVE LOAD FOR DESIGN OF THE MANHOLE BARRELS, RISERS AND REDUCING SLABS IS AASHTO HL-93 (HS20 AND DESIGN TANDEM AXLE/WHEEL LOADS).
16. A FLAT LID WITH A SMALLER OPENING MAY ALSO BE USED IF CALLED FOR IN THE PLANS.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

48" STORM DRAIN MANHOLE (PRECAST CONCRETE)

TYPE I MANHOLE

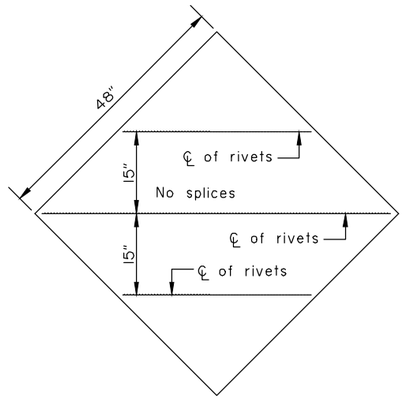
Adopted as an Alaska Standard Plan by:

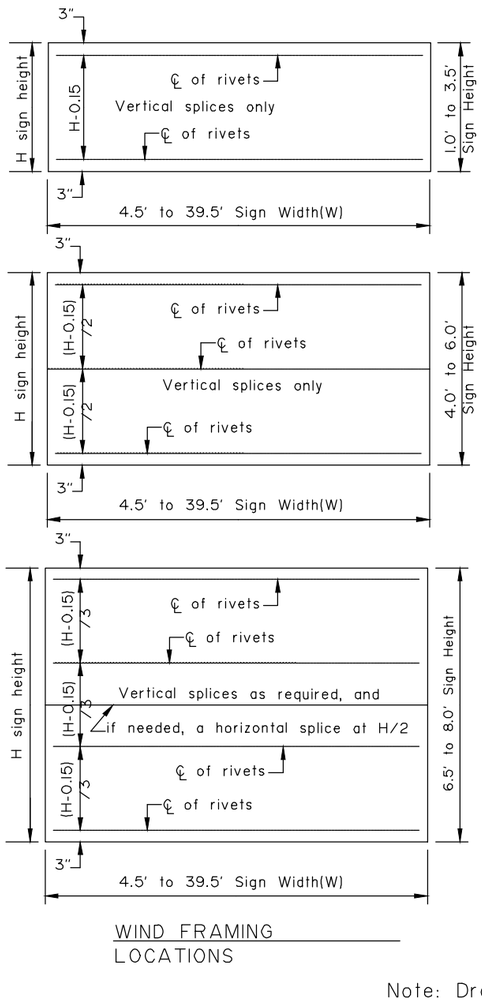
Lauren Little, P.E.
Interim Chief Engineer

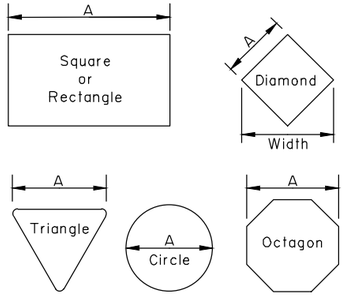
Adoption Date: 01/29/2024

Last Code and Stds. Review
By: BMM Date: 12/13/2023

Next Code and Standards Review Date: 12/13/2033





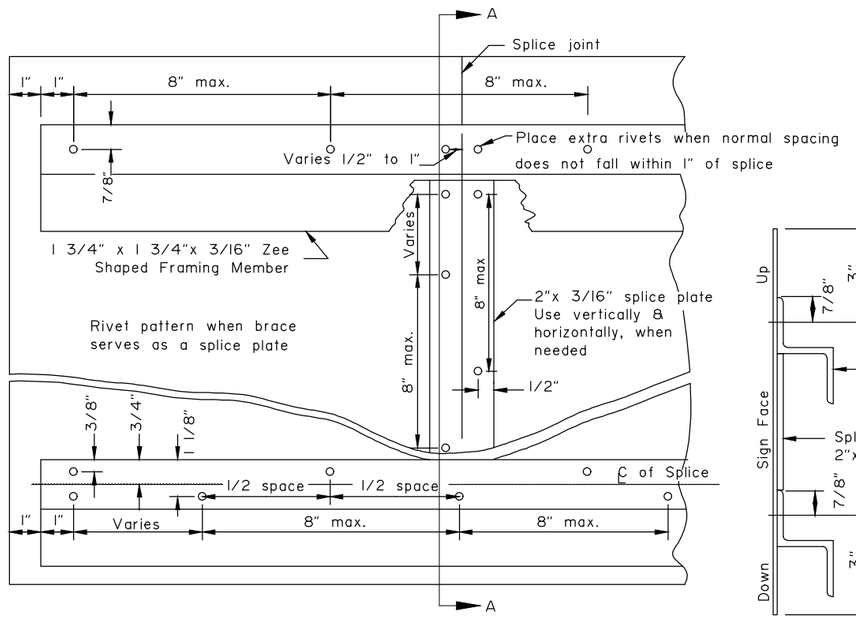


Maximum size unframed signs using 0.125" thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	48"
Rectangles	48"
Diamonds	48"
Triangles	48"
Rounds and Octagons	48"

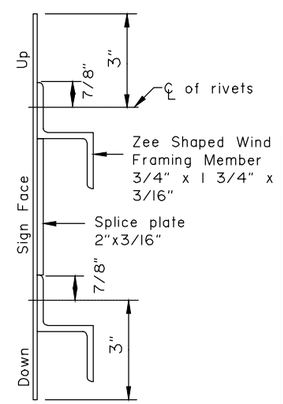
Install wind framing on all signs that exceed the dimensions listed.

LIGHT SIGNS

WIND FRAMING LOCATIONS



RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE



SECTION A-A

Note: Drawing not to scale

GENERAL NOTES

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

State of Alaska DOT&PF
ALASKA STANDARD PLAN

SIGN FRAMING

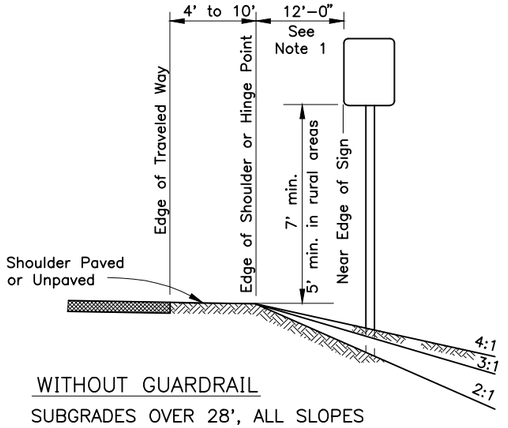
Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

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

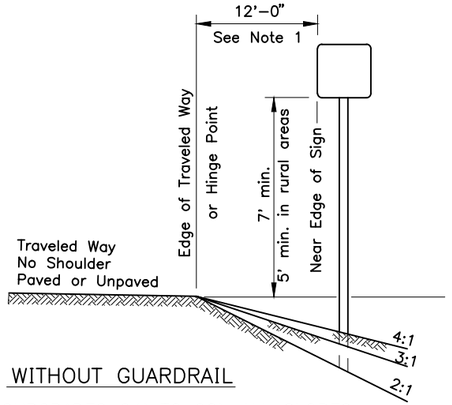
Next Code and Standards Review date: 7/8/2030

S-00.12



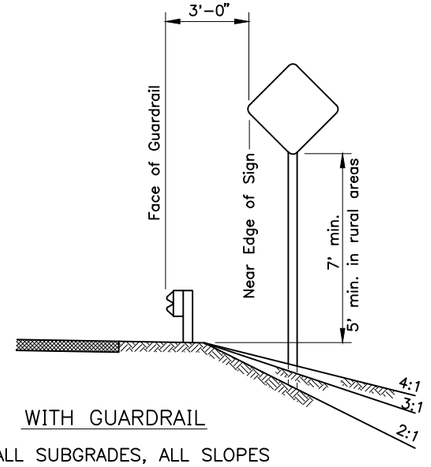
WITHOUT GUARDRAIL

SUBGRADES OVER 28', ALL SLOPES



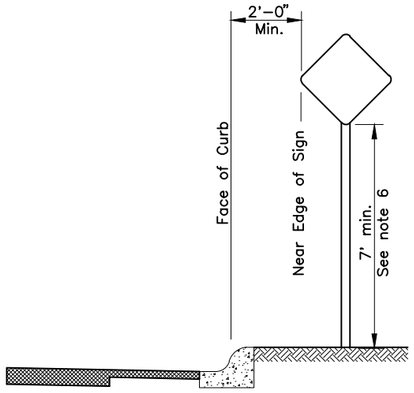
WITHOUT GUARDRAIL

SUBGRADES 24' TO 28', ALL SLOPES

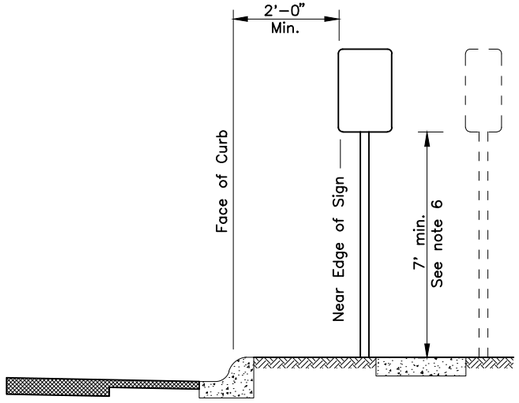


WITH GUARDRAIL

ALL SUBGRADES, ALL SLOPES

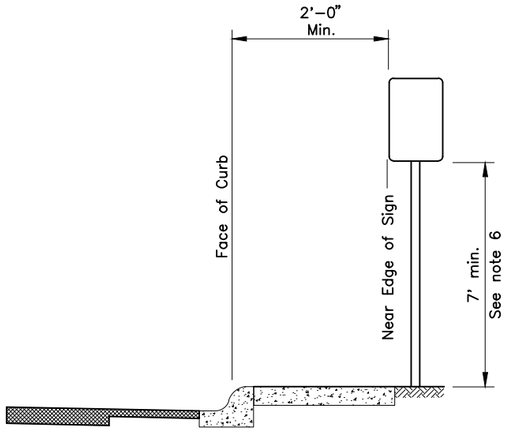


CURB WITHOUT SIDEWALK

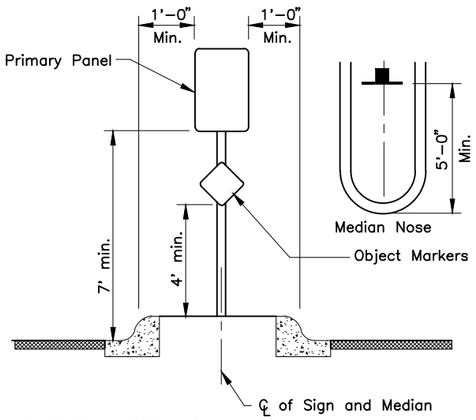


CURB WITH PARKWAY AND SIDEWALK

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

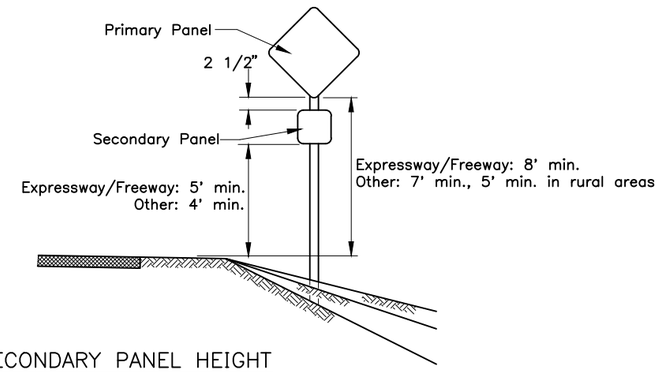


CURB WITH SIDEWALK WITHOUT PARKWAY



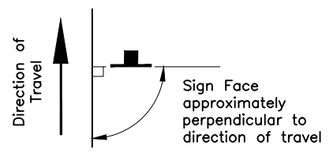
RAISED MEDIANS

Minimum 4' Width for Signing



SECONDARY PANEL HEIGHT

ALL TWO PANEL MOUNTING



SIGN POSITIONING

GENERAL NOTES

1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6' where shoulder width is 6' or greater.
2. Add 6" to mounting height on unpaved roads.
3. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
4. When signs are placed 30' or more from the edge of traveled way, mount them with the bottom of the sign at least 5' above the road surface at the near edge of the road.
5. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.
6. Minimum mounting height is 7'–0" where parking or pedestrian movements are likely to occur, or where sings extend over sidewalks.
7. For construction signs in rural areas, mounting height shall be 7' minimum.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

POST MOUNTED SIGN
OFFSET AND HEIGHT

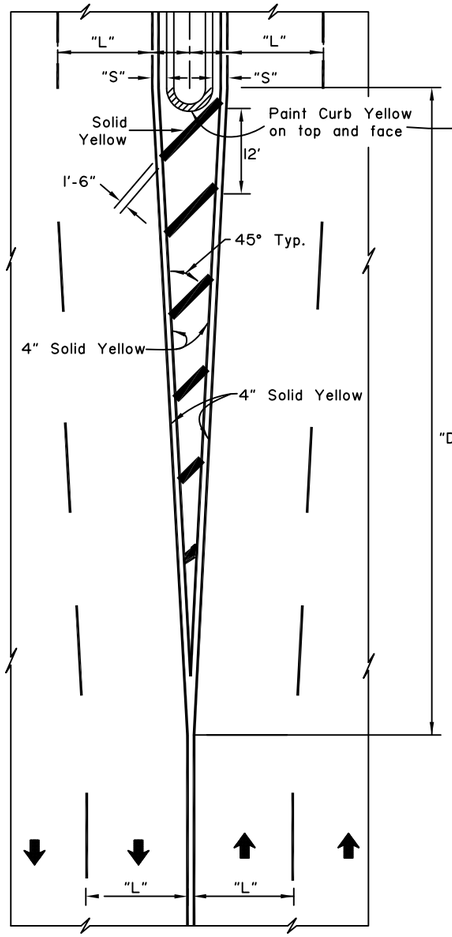
Adopted as an Alaska Standard Plan by: Carolyn Morehouse
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

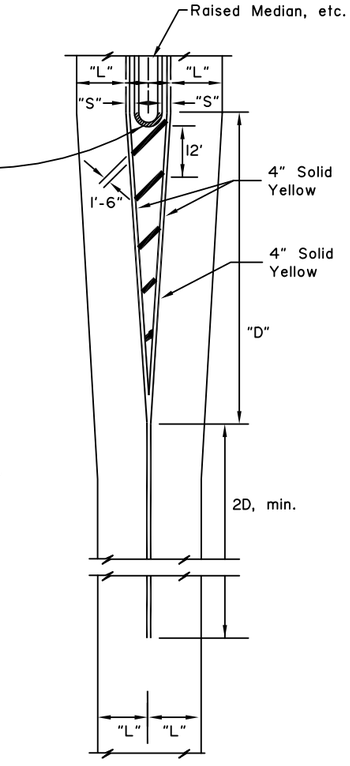
Last Code and Stds. Review
By: KLK Date: 7/8/2020

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

S-05.02



FOUR OR MORE LANES
DRIVE TO RIGHT

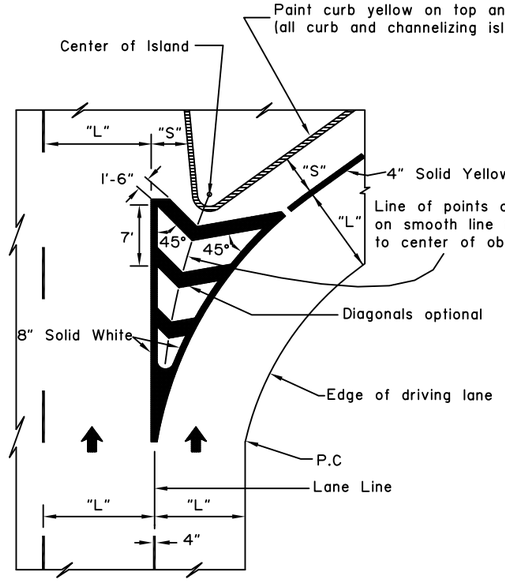


TWO LANES
DRIVE TO RIGHT

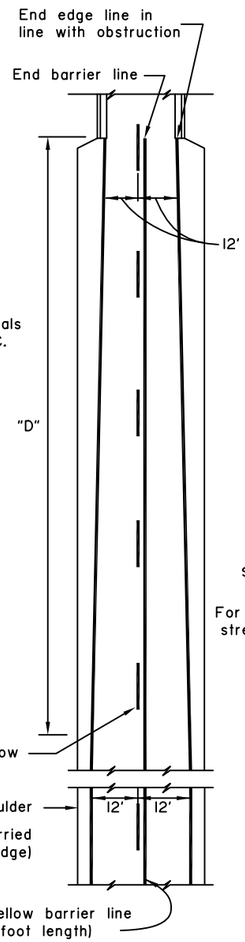
White longitudinal and diagonal markers identical to Four Lane Arrangement.

NOTES: "D" = Speed limit (mph) X "S" (offset width in feet) or as indicated on the plans. Minimum "D" = 100 feet urban, 200 feet rural.

APPROACH TO OBSTRUCTIONS

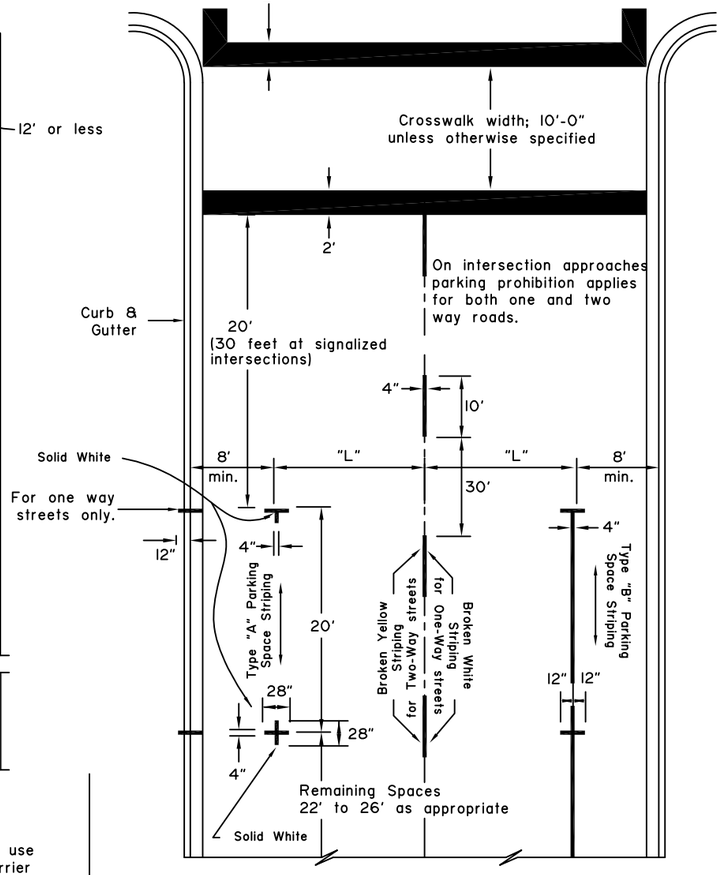


CHANNELIZING ISLAND



Note: On bridges over 24' wide use standard pavement markings. Barrier lines not used unless otherwise required.

EDGE LINE TRANSITION TO NARROW BRIDGE AND APPROACH BARRIER LINE

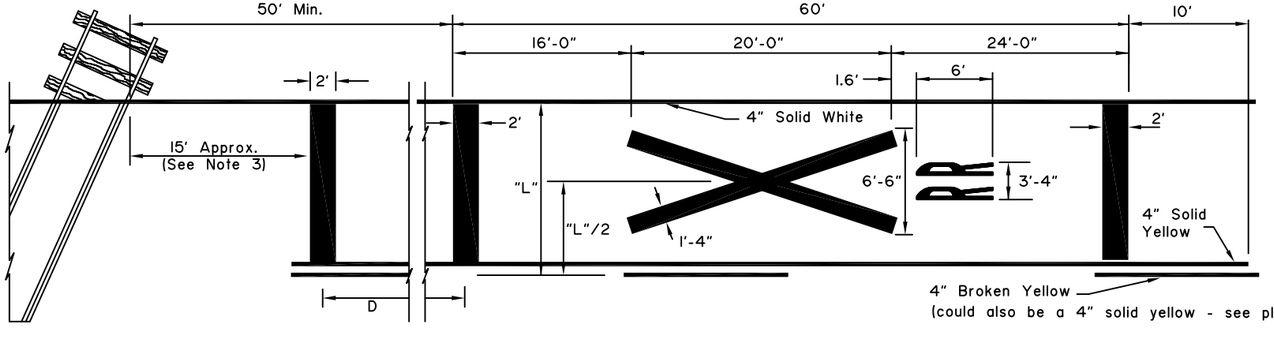


CENTERLINES FOR TWO LANE TWO WAY URBAN ROADS-PARKING LIMIT LINES

RAILROAD CROSSING NOTES:

1. All markings solid while unless indicated otherwise.
2. On 4-lane roadways place railroad crossing approach markings in each lane of the approach.
3. Locate Stop Bar 15' from railroad track or 8' from gate, if present.
4. Place edge lines and lane lines on a uni-directional approach in a normal manner except that the lane line(s) shall be solid 4" white in lieu of broken for a distance of (D+60') in advance of the stop bands.

POSTED LIMIT	D
30 M.P.H.	225'
40	350'
50	475'
60	625'



APPROACH TO RAILROAD CROSSING ON 2 LANE 2 WAY HIGHWAY

GENERAL NOTES:

1. "S"= offset distance as shown on the plans, otherwise 1 to 2 feet.
2. "L"= driving lane width.
3. See the Alaska Traffic Manual for additional guidance and/or restrictions on the use of traffic control devices.

NOT TO SCALE

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PAVEMENT MAKING APPLICATIONS

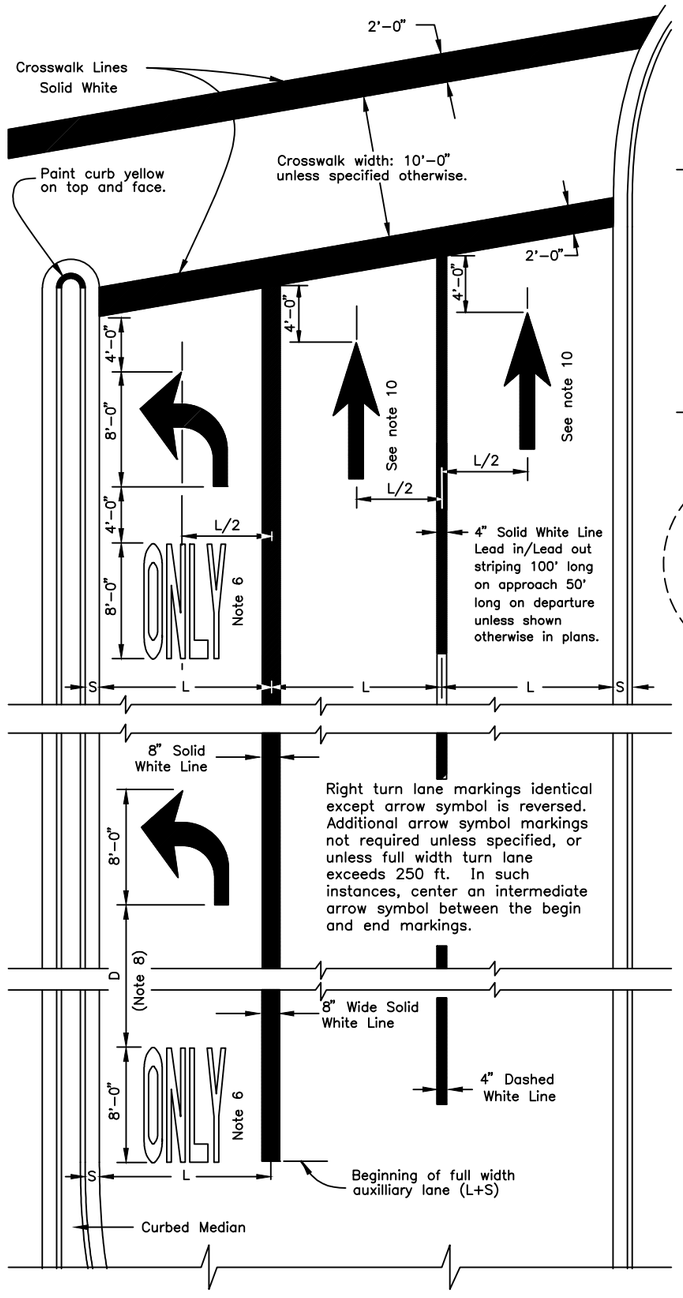
Adopted as an Alaska Standard Plan by: Kenneth J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

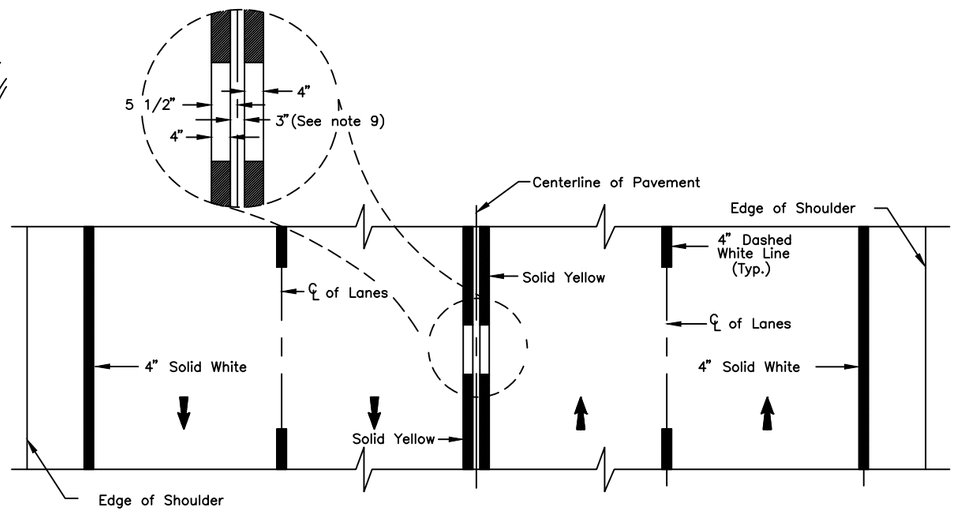
Last Code and Stds. Review
By: Date:

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

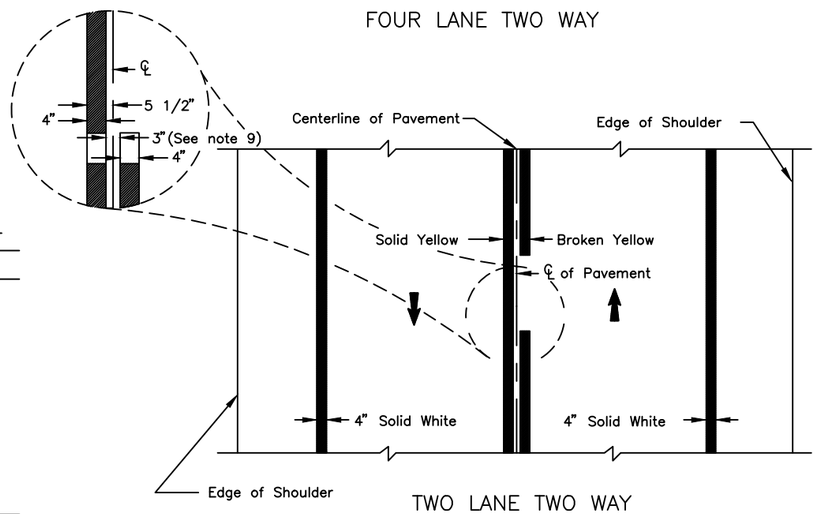
T-20.04



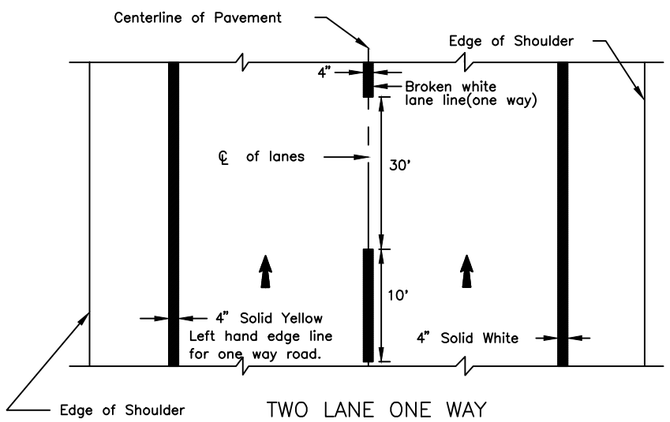
APPROACH TO INTERSECTION



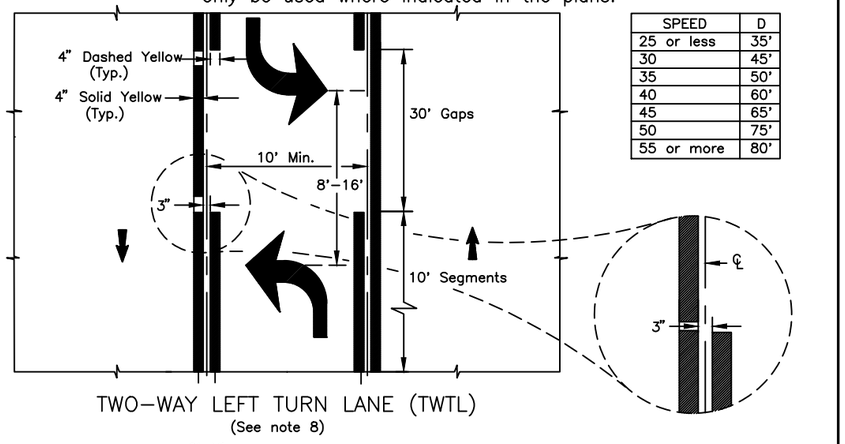
FOUR LANE TWO WAY



TWO LANE TWO WAY

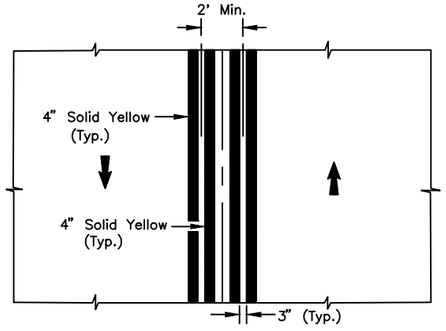


TWO LANE ONE WAY



TWO–WAY LEFT TURN LANE (TWTL)
(See note 8)

SPEED	D
25 or less	35'
30	45'
35	50'
40	60'
45	65'
50	75'
55 or more	80'



STRIPED MEDIAN

GENERAL NOTES:

1. All markings white unless indicated otherwise.
2. Lengths of stripe and gap for lane and center lines identical.
3. Lane lines for auxiliary lanes are unbroken solid lines.
4. "L" = driving lane width.
5. "S" = shy distance as shown on plans, otherwise 1 to 2 feet.
6. ONLY markings are required where through lanes change to turn lanes. In other cases, apply ONLY markings as indicated on plans.
7. See ALASKA TRAFFIC MANUAL for additional instruction on the use of TRAFFIC CONTROL DEVICES.
8. Adjust distance D between ONLY and Turn Arrow based on SPEED vs. D table. Table may be used for spacing between pairs of TWLT markings.
9. Adjust centerline spacing from 3" up to 5" where recessed pavement markers are required.
10. Arrows and symbols are used for through lanes only when the lane layout deviates from the normal intersection rules, and shall only be used where indicated in the plans.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

PAVEMENT MARKING
APPLICATIONS

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

Adoption Date: 7/17/2020

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

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

T-21.04