

FILE Q:\jnu\SFH\00083\Plans\00083_A1.dwg
 DATE 8/1/2019 9:50 LAYOUT A1
 DESIGNED BW
 CHECKED JB
 DRAFTED BW

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

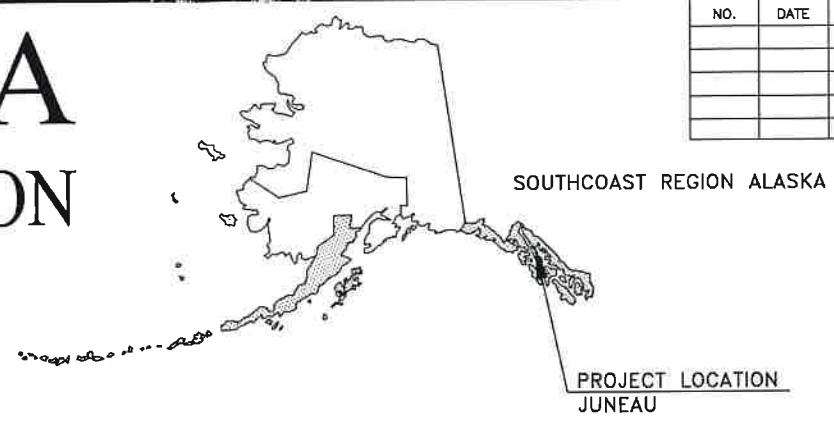
PROPOSED HIGHWAY PROJECT

JNU GLACIER HWY/TWIN LAKE DR-LEMON RD

CULVERT ASSESSMENT

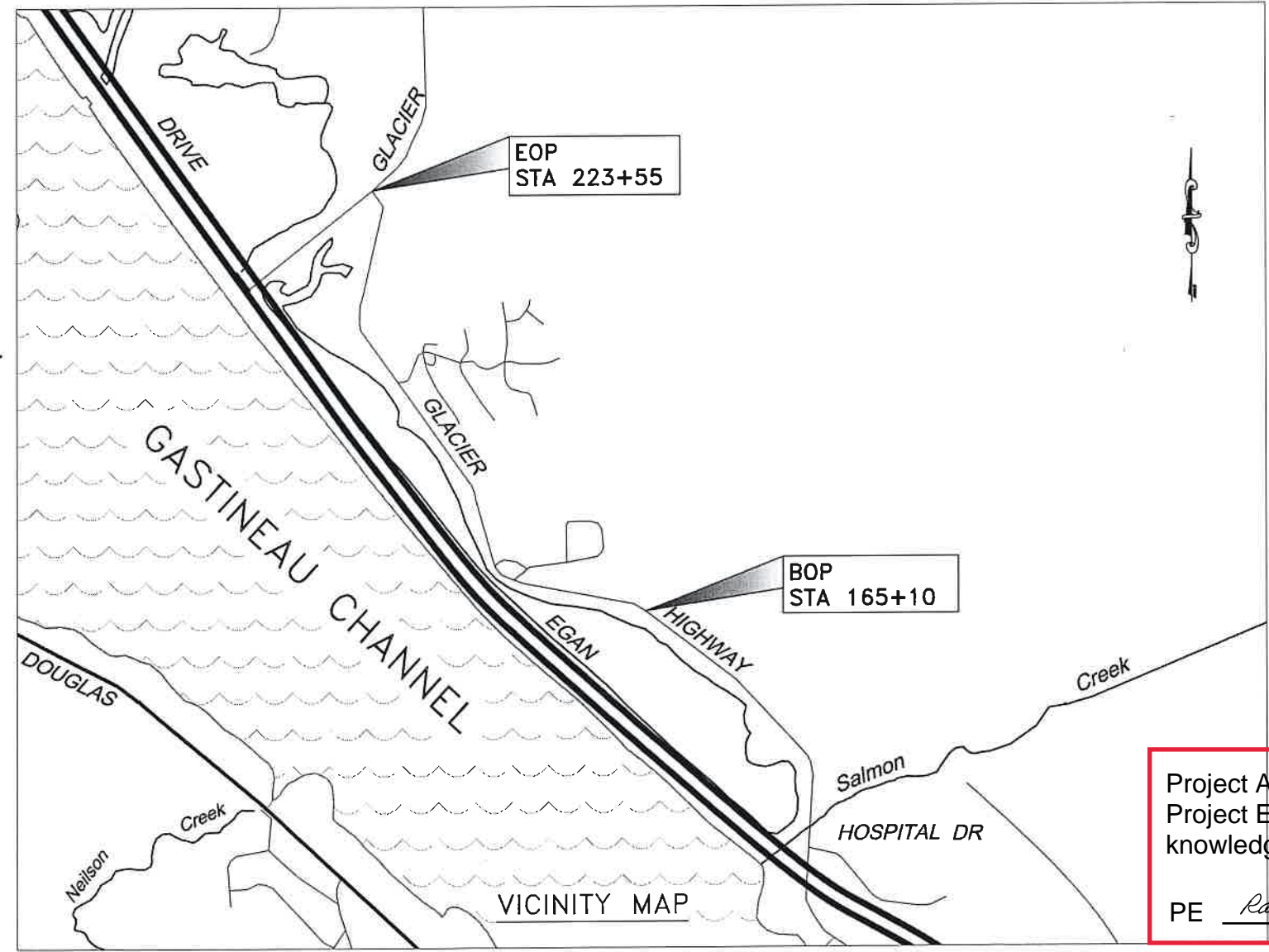
PROJECT NO. NH-0955019/SFHWHY00083

NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWHY00083/0955019	2019	A1	24
				CDS ROUTE: 296000	MILEPOINT: 1.107 TO 0.00		
				LATITUDE: 58°20'08"N	LONGITUDE: 134°28'41"W		



PROJECT SUMMARY	
LENGTH OF PROJECT	5845.06' (1.107 MILES)
NUMBER OF CULVERTS	16

DESIGN DESIGNATIONS	
PROJECT TYPE	PREVENTATIVE MAINTENANCE
FUNCTIONAL CLASS	MAJOR COLLECTOR
AADT (2015)	2648
PERCENT TRUCKS (T)	-
DIRECTIONAL SPLIT (D)	-
DESIGN SPEED (V)	40 MPH



The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.

Jessica Pukala

December 04, 2019

AS BUILT DRAWINGS
 CONTRACTOR: Admiralty Construction PROJECT ENGINEER: RANDALL E JOHNSTON
 START DATE : 10.06.20.2021 END DATE: 10.29.2021

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2017 EDITION AND THE PROJECT SPECIAL PROVISIONS.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

APPROVED:
L. Pat Carroll 8.5.19
 L. PAT CARROLL, P.E.
 REGIONAL PRECONSTRUCTION ENGINEER DATE

CONCUR:
D. Lance Mearig 05 Aug 2019
 D. LANCE MEARIG, P.E.
 DIRECTOR, SOUTHCOAST REGION DATE

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

PE *Randall E. Johnston* DATE 05/02/2022

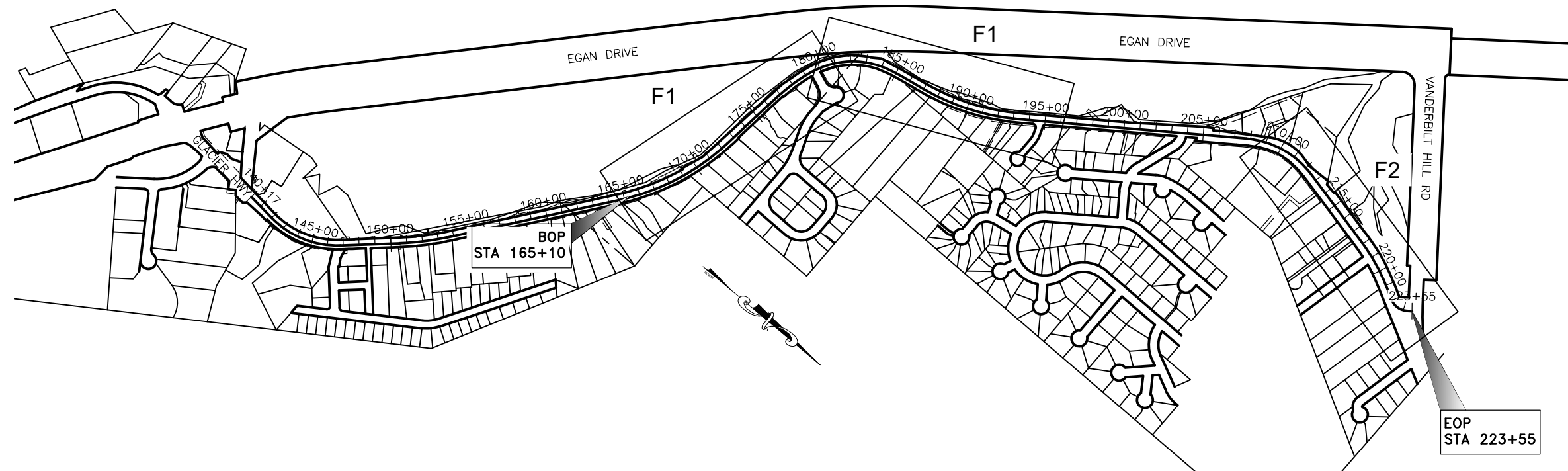
FILE G:\nu\SFHWY00083\PlanSet\00083_A2.dwg
 DATE 7/30/2019 10:31 LAYOUT A2
 DESIGNED BW
 CHECKED JB
 DRAFTED BW

GENERAL NOTES:

1. CONTAIN ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY, EXCEPT WHERE EASEMENTS ARE PROVIDED. DO NOT DISPOSE OF EXCESS MATERIAL WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS.
2. MAKE ALL PAVEMENT CUTS CLEAN, VERTICAL, AND TRUE TO THE REMOVAL LIMITS SHOWN ON THE PLANS.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFH000083/0955019	2019	A2	24

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2-A3	LEGEND & SHEET LAYOUT INDEX
A4-A6	SURVEY CONTROL
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES & GENERAL NOTES
D1	SUMMARIES
E1-E4	DETAILS
F1-F2	PLAN
G1	UTILITIES
P1-P2	EROSION SEDIMENT CONTROL PLANS
T1-T3	TRAFFIC CONTROL PLANS

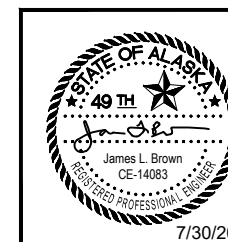


THE FOLLOWING STANDARD PLANS APPLY TO THIS PROJECT:

- D-23.01
- D-26.03

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

PE Randall E. Johnston DATE 05/02/2022



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

JNU GLACIER HWY/TWIN LAKES DR-LEMON RD
 CUVLERT ASSESSMENT

LAYOUT & INDEX

FILE G:\Inu\SFHWY00083\Plan\set\00083_A3.dwg DATE 7/30/2019 10:31 LAYOUT A3 CHECKED JB DESIGNED BW DRAFTED BW

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWY00083/0955019	2019	A3	24

	RECOVERED	SET
BLM MONUMENT		
GLO MONUMENT		
USC&GS MONUMENT		
PRIMARY MONUMENT		
CENTERLINE MONUMENT IN CASING		
PRIMARY R.O.W. MONUMENT		
BEARING OBJECT		
MISCELLANEOUS MONUMENT		
LINE OF SIGHT MONUMENT		
CONCRETE R.O.W. MONUMENT		
BENCHMARK		
REBAR AND CAP		
REBAR		
IRON PIPE		
PK NAIL		
SPIKE		
HUB AND TACK		
CONSTRUCTION CENTERLINE		
MICELLANEOUS CENTERLINE		
STATION EQUATION	$\begin{aligned} &^*L^*48+97.23 \text{ POT BK=} \\ &^*O^*48+97.23 \text{ PC AHD} \end{aligned}$	
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
EXISTING EASEMENT LINE		
PROPOSED EASEMENT LINE		
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE		
MEANDER LINE		

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)		
FUEL LINE		
GAS LINE		
WATER LINE		
METER, VALVE, FIRE HYDRANT		
EXISTING STORM DRAIN (FLOW DIRECTION →)		
PROPOSED STORM DRAIN		
FIBER OPTIC LINE		
DIRECT BURIAL TELEPHONE CABLE		
DIRECT BURIAL ELECTRIC CABLE		
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT		
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE		
SANITARY SEWER CLEAN OUT		
RIPRAP		
SPECIAL DITCH CENTERLINE		
HIGH TIDE LINE		

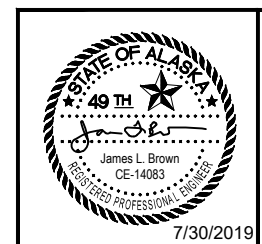
	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX		
RAILROAD TRACKS		
RAILROAD DEVICES		
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS		
POST OR BOLLARD		
WELL OR MONITORING WELL		
SEPTIC PIPE		
FUEL TANK FILL PIPE/VENT		
SATELLITE DISH		
TEST HOLE		
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		
JUNCTION BOX, TYPE II		
JUNCTION BOX, TYPE III		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, BACKPLATE		
SIGNAL FACE, LEFT TURN, BACKPLATE		
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR		
VIDEO DETECTOR		
RADAR DETECTOR		
OPTICOM DETECTOR		
PEDESTRIAN PUSH BUTTON		
SIGNAL POST W/O MAST ARM		
SIGNAL POLE W/MAST ARM		
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		
RIGID METAL CONDUIT		

- H = HOUSE
- G = GARAGE
- M = MERCHANT/STORE
- B = BARN
- S = SHED
- P = PRIVY
- SS = SERVICE STATION
- W = WAREHOUSE

- ABBREVIATIONS:**
- A.A.D.T. AVERAGE ANNUAL DAILY TRAFFIC
 - BOP BEGINNING OF PROJECT
 - CMP CORRUGATED METAL PIPE
 - DIA. DIAMETER
 - E. EASTING
 - EOP END OF PROJECT
 - EXST. EXISTING
 - FT FOOT
 - N: NORTHING
 - NO. NUMBER
 - O.D. OUTSIDE DIAMETER
 - P.E. PROFESSIONAL ENGINEER
 - ROW RIGHT-OF-WAY
 - STA. STATION
 - V VELOCITY

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE *Randall E. Johnston* DATE 05/02/2022



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**JNU GLACIER HWY/TWIN LAKES
 DR-LEMON RD CUVLERT
 ASSESSMENT**
 LEGEND / SYMBOLS

DESIGNED: J.PAROLI
 CHECKED: D.IGNOTOV
 DRAFTER: J.PAROLI
 XREFS
 SCALE
 LAYOUT: AZ
 DATE: TIME: 3/6/2019 17:57
 DRAWING LOCATION: C:\jnu\SFHWY00083\SV\CD\BASEMAPS\00083_SCS_030619.dwg

GLACIER HIGHWAY/TWIN LAKES DESIGN ALIGNMENT

SEGMENT	STATION	NORTHING	EASTING	BEARING	STATION	RADIUS	LENGTH	DELTA	SPIRAL LENGTH	SPIRAL A	SPIRAL DELTA
L1	140+17.00	2374156.19	2531161.12	N6° 00' 08"E	142+02.04						
C1	142+02.04	2374340.22	2531180.46		146+82.42	572.96	480.38	48°02'16"			
L2	146+82.42	2374783.78	2531036.20	N42° 02' 08"W	150+56.70						
C2	150+56.70	2375061.77	2530785.58		153+56.71	1677.09	300.01	10°14'58"			
L3	153+56.71	2375265.49	2530565.89	N52° 17' 06"W	164+74.21						
C3	164+74.21	2375949.10	2529681.88		172+44.45	1432.39	770.24	30°48'35"			
L4	172+44.45	2376237.98	2528977.85	N83° 05' 41"W	175+59.14						
S1	175+59.14	2376275.82	2528665.44		180+84.14			525.00	522.93	28°52'30"	
C4	180+84.14	2376423.33	2528167.75		183+87.85	520.87	303.72	33°24'32"			
S2	183+87.85	2376660.84	2527985.40		185+87.85			200.00	322.76	11°00'00"	
L5	185+87.85	2376855.01	2527938.87	N9° 48' 39"W	187+00.66						
C5	187+00.66	2376966.17	2527919.65		193+33.08	1432.39	632.42	25°17'49"			
L6	193+33.08	2377545.88	2527680.00	N35° 06' 28"W	207+73.96						
C6	207+73.96	2378724.63	2526851.33		212+59.93	572.96	485.97	48°35'49"			
L7	212+59.93	2379187.79	2526762.90	N13° 29' 21"E	217+97.08						
C7	217+97.08	2379710.12	2526888.19		220+96.99	1175.77	299.91	14°36'53"			
L8	220+96.99	2379989.74	2526994.39	N28° 06' 14"E	221+99.94						
C8	221+99.94	2380080.55	2527042.88		223+27.48	109.14	127.54	66°57'29"			
L9	223+27.48	2380200.43	2527031.60	N38° 51' 15"W	223+55.06						

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NH0955019/SFHWY00083	2019	SCS 2	24

EXISTING RW SHOULDER MONUMENTS

POINT #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
102	2374327.48	2531195.97	BC2.5"	141+91.00	16.75R
117	2375040.85	2530830.51	BC2.5"	150+11.08	19.36R
118	2375317.13	2530532.03	BC2.5"	154+15.09	20.14R
119	2375920.00	2529751.30	BC2.5"	164+01.49	19.45R
120	2376266.92	2528907.67	BC2.5"	173+17.60	20.29R
121	2376298.05	2528654.78	BC2.5"	175+72.40	20.79R
122	2376432.84	2528188.05	BC2.5"	180+72.81	19.47R
123	2376858.31	2527958.14	BC2.5"	185+87.82	19.55R
124	2377844.57	2527494.10	BC2.5"	196+84.34	19.70R
125	2378688.11	2526901.53	BC2.5"	207+15.22	20.07R
126	2379239.74	2526795.71	BC2.5"	213+18.10	19.79R
127	2379658.84	2526896.15	BC2.5"	217+49.06	19.70R
128	2380020.90	2527033.74	BC2.5"	221+43.02	20.03R

EXISTING SHOULDER MONUMENTS SHALL BE PRESERVED IN PLACE IF AT ALL POSSIBLE. IF NECESSARY SHOULDER MONUMENTS SHALL BE REFERENCED PRIOR TO DISTURBANCE AND REPLACED AT THEIR ORIGINAL HORIZONTAL POSITION. A RECORD OF MONUMENT FORM IN ACCORDANCE WITH A.S.34.65.040 SHALL BE SUBMITTED TO DOT&PF PROJECT ENGINEER FOR REVIEW PRIOR TO RECORDING FOR EACH MONUMENT.

EXISTING SURVEY CONTROL

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
101	2373702.90	2531080.85	25.46	ALCAP2.5"	N/A	N/A
103	2374773.14	2531071.81	29.61	ALCAP2.5"	146+51.74	20.18R
104	2375228.36	2530568.68	28.62	ALCAP2.5"	153+31.38	27.47L
105	2375565.28	2530119.92	29.49	ALCAP2.5"	158+92.90	35.66L
106	2375934.98	2529656.17	28.21	ALCAP2.5"	164+86.14	26.84L
107	2376163.71	2529204.44	29.27	ALCAP2.5"	170+04.99	26.90L
108	2376250.99	2528648.38	28.71	ALCAP2.5"	175+73.08	26.70L
109	2376441.26	2528103.22	29.26	ALCAP2.5"	181+44.02	26.80L
110	2376869.47	2527909.90	30.09	ALCAP2.5"	186+07.04	26.09L
111	2377317.81	2527781.73	29.33	ALCAP2.5"	190+82.11	26.42L
112	2377708.37	2527533.21	30.03	ALCAP2.5"	195+50.43	26.64L
113	2378196.68	2527189.60	28.30	ALCAP2.5"	201+47.52	26.90L
114	2378644.17	2526869.35	46.36	ALCAP2.5"	206+97.78	31.53L
115	2379042.82	2526712.02	49.39	ALCAP2.5"	211+14.36	35.18L
116	2379716.01	2526866.01	27.72	ALCAP2.5"	217+97.62	22.94L
131	2380237.82	2527048.24	24.65	ALCAP2.5"	223+46.17	36.41R

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE Randall E. Johnston DATE 05/02/2022

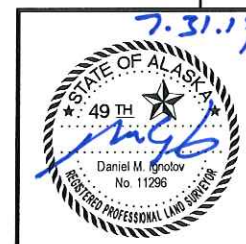
ALL SURVEY CONTROL MONUMENTS IN THIS TABLE ARE PROVIDED STRICTLY FOR SURVEY CONTROL. SHOULD ANY OF THEM BE DESTROYED DURING CONSTRUCTION THEY SHALL NOT BE REPLACED.

SURVEY CONTROL STATEMENT

THIS SURVEY WAS PERFORMED IN NAD83(2011) AK STATE PLANE ZONE 1 GRID. ELEVATIONS SHOWN ARE REFERENCED TO NAVD88.

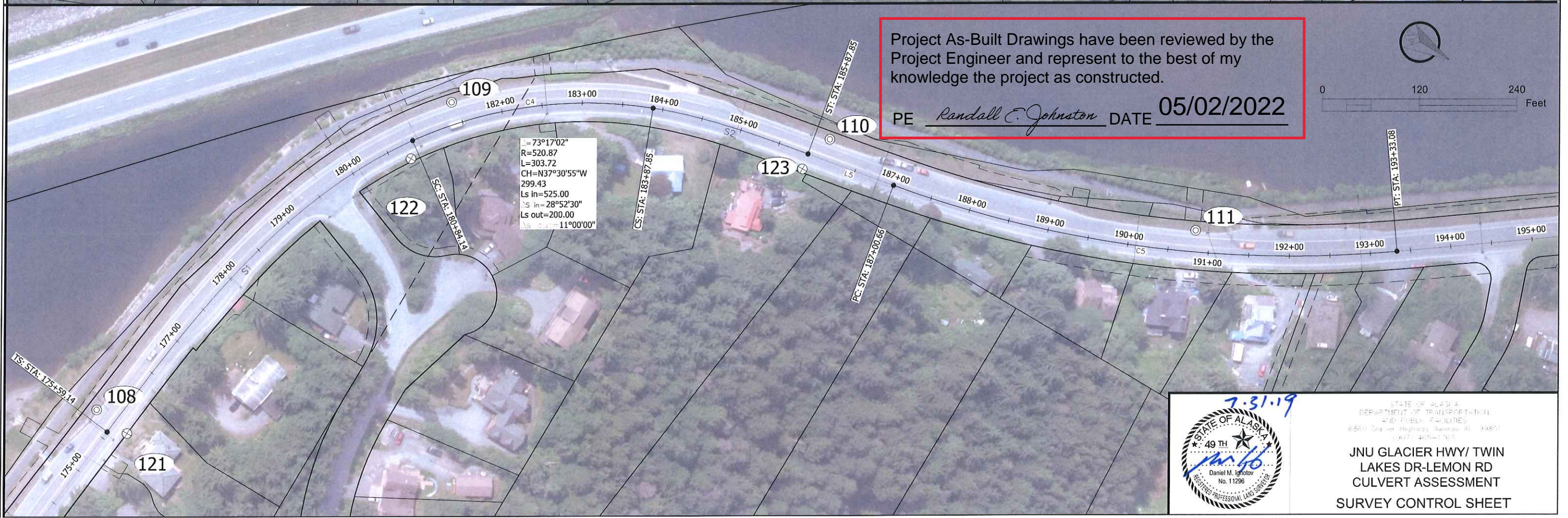
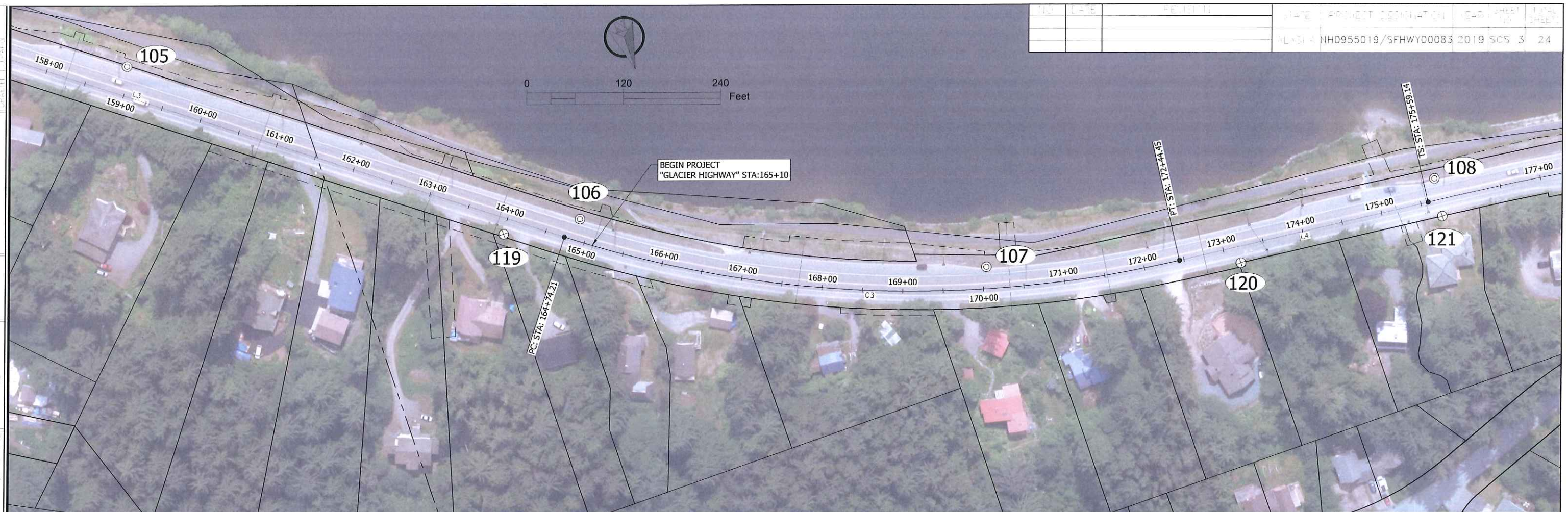
ALL BEARINGS AND DISTANCES AS SHOWN ARE GRID. CONVERGENCE AT CONTROL POINT 111 (AFE B) IS -0° 41' 24". COMBINED SCALE FACTOR IS 0.99993031. TO CONVERT GRID DISTANCES TO GROUND DISTANCES MULTIPLY BY 1.00006970.

MONUMENT NOTES:
 1. IF ANY PAIR OF CONTROL POINTS DISAGREES FROM PUBLISHED VALUE BY MORE THAN 1:10,000 HORIZONTALLY OR VERTICALLY THEN A THIRD NETWORK POINT MUST BE TIED TO ASCERTAIN WHICH POINT IS IN ERROR OR HAS BEEN DISTURBED.
 2. WHETHER LISTED OR NOT, ALL PROPERTY MONUMENTS, PROPERTY MARKERS, OR ACCESSORIES THAT WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED, AND RE-ESTABLISHED IN THEIR ORIGINAL HORIZONTAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH A.S.34.65.040 SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES AND SHOULD BE USED TO RESET MONUMENTS ONLY AS A LAST RESORT.



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6860 Glacier Highway Juneau Ak. 99801
 (907) 465-1763
**JNU GLACIER HWY/ TWIN
 LAKES DR-LEMON RD
 CULVERT ASSESSMENT
 SURVEY CONTROL SHEET**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			AL-31	NH0955019/SFHWD0083	2019	SCS 3	24



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

PE Randall E. Johnston DATE 05/02/2022



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6500 Glacier Highway, Fairbanks, AK 99701
 (907) 465-1171

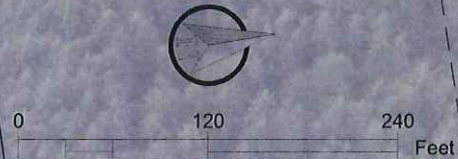
JNU GLACIER HWY/ TWIN
 LAKES DR-LEMON RD
 CULVERT ASSESSMENT
 SURVEY CONTROL SHEET

DATE	REVISION	STATE	PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
		ALASKA	NH0955019/SFHWY00083	2019 SCS 4	24



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

PE *Randall E. Johnston* DATE 05/02/2022

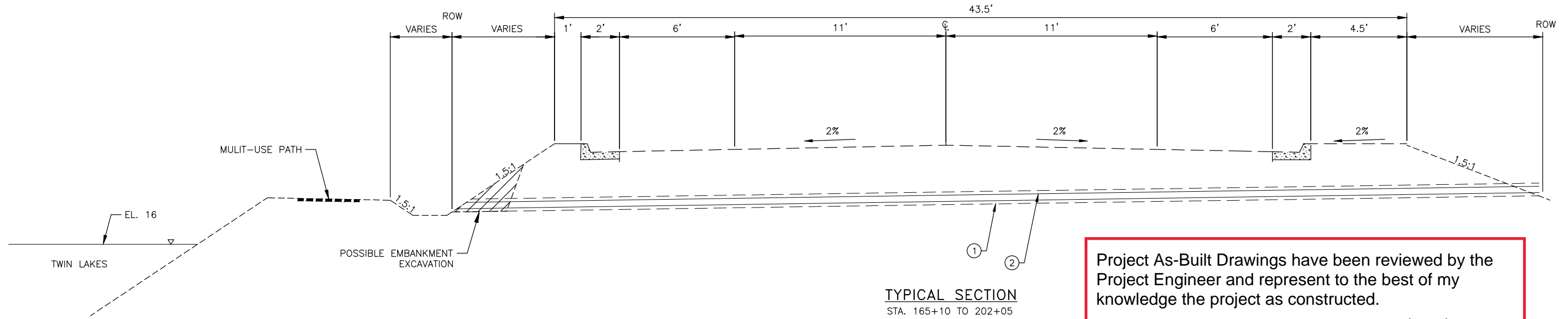


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6000 Glacier Highway, Anchorage, AK 99511
 (907) 465-1763

**JNU GLACIER HWY/ TWIN
 LAKES DR-LEMON RD
 CULVERT ASSESSMENT
 SURVEY CONTROL SHEET**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWHY00083/0955019	2019	B1	24

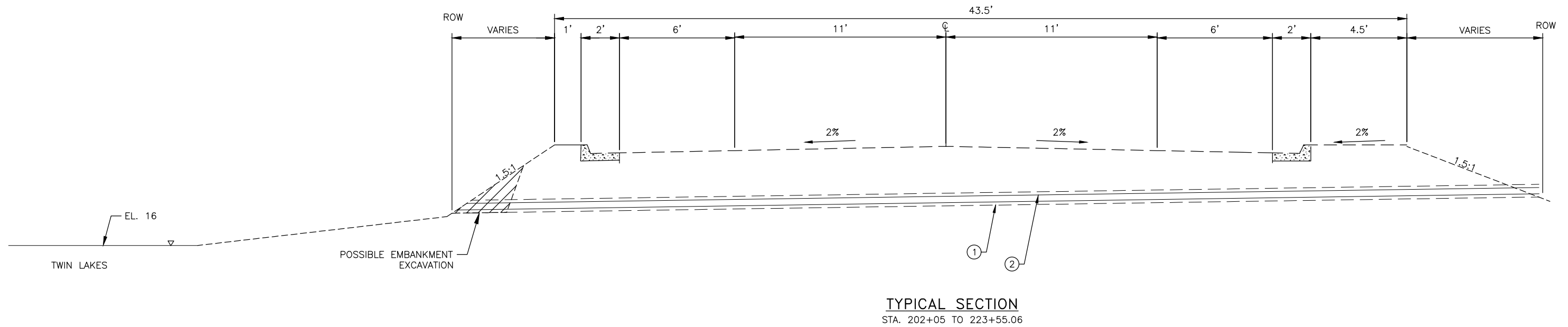
FILE G:\Inu\SFHWHY00083\Plan\set\00083_B1.dwg
 DATE 7/30/2019 10:38 LAYOUT B1
 DESIGNED BW
 CHECKED JB
 DRAFTED BW



TYPICAL SECTION
STA. 165+10 TO 202+05

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

PE Randall E. Johnston DATE 05/02/2022

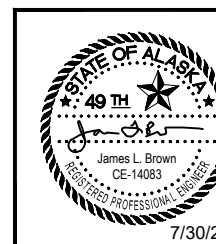


TYPICAL SECTION
STA. 202+05 TO 223+55.06

- LEGEND**
- ① EXISTING CULVERT
 - ② LINER PIPE

NOTES:

1. CUTTING ASPHALT IS NOT PERMITTED, UNLESS REPLACING AN INLET, REPLACING A CULVERT, OR AS SHOWN IN DETAIL 2/E1.
2. IF EMBANKMENT EXCAVATION IS REQUIRED, DO NOT UNDERMINE THE CURB OR ROADWAY.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

JNU GLACIER HWY/TWIN LAKES
DR-LEMON RD CULVERT
ASSESSMENT

TYPICAL SECTIONS

FILE Q:\Inu\SFH\00083\PlanSet\00083_C1_D1.dwg DATE 7/31/2019 9:36 LAYOUT C1 DESIGNED BW CHECKED JB DRAFTED BW

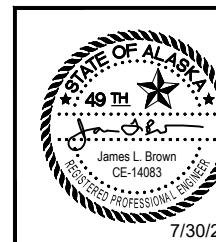
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFH\00083\0955019	2019	C1	24

ESTIMATE OF QUANTITIES			
AASHTOWARE NO.	Pay Item	Pay Unit	Quantity
201.0009.0000	Clearing and Grubbing	LUMP SUM	ALL REQ'D
201.2001.0000	Invasive Plant Species control, Removal, and Disposal	SQUARE YARD	2200
202.0004.0000	Removal of Culvert Pipe	LINEAR FOOT	46.5
603.0021.0018	Corrugated Polyethylene Pipe 18 Inch	LINEAR FOOT	24.0
603.0021.0024	Corrugated Polyethylene Pipe 24 Inch	LINEAR FOOT	22.5
603.2018.0000	Clean and Repair Pipe	EACH	1
603.2019.0024	Liner for Storm Drain 24 Inch, Slip Liner	LINEAR FOOT	850
604.0005.000A	Inlet, Type A	EACH	1
611.0001.0001	Riprap, Class I	CUBIC YARD	590
613.0002.0000	Culvert Marker Post	EACH	26
618.0002.0000	Seeding	POUNDS	20
619.2013.0000	Bonded Fiber Matrix (BFM) Bonded Fiber Matrix	POUNDS	1155
640.0001.0000	Mobilization and Demobilization	LUMP SUM	ALL REQ'D
641.0001.0000	Erosion, Sediment, and Pollution Control Administraion	LUMP SUM	ALL REQ'D
641.0003.0000	Temporary Erosion, Sediment, and Pollution Control	LUMP SUM	ALL REQ'D
641.0005.0000	Temporary Erosion, Sediment, and Pollution Control by Directive	CONTINGENT SUM	ALL REQ'D
641.0006.0000	Withholding	CONTINGENT SUM	ALL REQ'D
643.0002.0000	Traffic Maintenance	LUMP SUM	ALL REQ'D
643.0023.0000	Traffic Price Adjustment	CONTINGENT SUM	ALL REQ'D

BASIS OF ESTIMATE		
AASHTOWARE NO.	DESCRIPTION	ESTIMATING FACTORS
603.2018.0000	Clean and Repair Pipe	Repair of a 2" deformation on Pipe 14 which requires excavation. Assuming an excavation depth of 4.4 feet. Cutslope: 1.5:1 Estimated size of pit base: 6ftX5ft. Estimated size of pit at roadway: 19ftX18ft. Fill cut slope with required volume of D-1.
618.0001.0000	Seeding	Assuming 19,700sq.ft. of total ground disturbance. Seeding rate as per section 618-3.03 of the specifications.

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

PE Randall E. Johnston DATE 05/02/2022



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
JNU GLACIER HWY/TWIN LAKES
DR-LEMON RD CUVLERT
ASSESSMENT

ESTIMATE OF QUANTITIES

FILE Q:\Inu\SFWHY00083\Planset\00083_C1_D1.dwg DATE 7/31/2019 9:36 LAYOUT D1 DESIGNED BW CHECKED JB DRAFTED BW

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFWHY00083/0955019	2019	D1	24

[202.0004.0000] REMOVAL OF CULVERT PIPE								
PIPE NO.	EXST. DIA (IN)	STATION	OFFSET		INLET INVERT (FT)	OUTLET INVERT (FT)	LENGTH (FT)	EXST. MATERIAL
P-3	24	179+29	28.1	RT	24.0	23.5	15.5	CMP
P-5	24	179+85	25.5	RT	23.4	23.1	7	CMP
P-15	18	220+82	25.7	RT	21.8	21.4	24	CMP

P-3 was removed on 10/07/21.
 P-5 was removed on 10/07/21
 P-15 was removed on 10/11/21

[603.0021.0018] CORRUGATED POLYETHYLENE PIPE 18 INCH										
PIPE NO.	EXST. DIA (IN)	INLET			OUTLET			LENGTH (FT)		
		STATION	OFFSET	INVERT (FT)	STATION	OFFSET	INVERT (FT)			
P-15	18	220+82	25.66	RT	21.8	220+60	15.62	RT	21.4	24

P-15 was installed 10/11/21. Length was 25 LF.

[603.0021.0024] CORRUGATED POLYETHYLENE PIPE 24 INCH										
PIPE NO.	EXST. DIA (IN)	INLET			OUTLET			LENGTH (FT)		
		STATION	OFFSET	INVERT (FT)	STATION	OFFSET	INVERT (FT)			
P-3	24	179+29	28.1	RT	24.0	179+45	28.1	RT	23.5	15.5
P-5	24	179+85	25.5	RT	23.4	179+92	26.3	RT	23.1	7.0

P-3 was installed on 10/07/21. 8.5 LF.
 P-5 was installed on 10/07/21. 15 LF.

[603.2018.0000] CLEAN AND REPAIR PIPE						
PIPE NO.	STATION	OFFSET	ESTIMATE DEPTH (FT)	DEFORMATION SIZE (IN)	NOTES	
P-14	220+68	12	LT	5.5	2.0	REPAIR AS PER DRAWING 2/E1

P-14 was cleaned with a vac truck, Contractor used bottle jack at deformation, then slipped in the liner.

[613.0002.0000] CULVERT MARKER POST			
PIPE NO.	STATION	OFFSET	NOTES
P-1	165+10	RT	
P-1	165+12	LT	
P-2	171+54	RT	
P-2	171+52	LT	
P-3	179+29	RT	
P-5	179+85	RT	
P-6	180+10	RT	
P-6	180+10	LT	
P-7	184+95	RT	
P-7	184+95	LT	
P-8	186+80	RT	
P-8	186+80	LT	
P-9	190+10	RT	
P-9	190+09	LT	
P-10	214+26	RT	
P-10	214+63	LT	
P-11	215+76	RT	
P-11	215+82	LT	
P-12	216+93	RT	
P-12	216+93	LT	
P-13	219+65	RT	
P-13	219+52	LT	
P-14	220+77	LT	
P-15	220+82	RT	
P-16	223+31	RT	
P-16	223+31	LT	

Culvert post marker post were installed, 10/27/21.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE Randall C. Johnston DATE 05/02/2022

P-1 was installed 10/09/21. 58LF.
 P-2 was installed 10/11/21. 68 LF.
 P-4 was installed 10/07/21 38.33 LF.
 P-6 was installed 10/12/21 68.6 LF.

[603.2019.0024] LINER FOR STORM DRAIN 24 INCH, A										
PIPE NO.	EXST. DIA.	INLET		OUTLET		LENGTH (FT)	EXST. MATERIAL	NOTES		
		STATION	OFFSET	STATION	OFFSET					
P-1	24	165+10	22	RT	165+12	36	LT	58	CMP	MAY REQUIRE EMBANKMENT CUT FOR LINING, MAY REQUIRE CUSTOM LINER PIPE LENGTH
P-2	24	171+54	33	RT	171+52	34	LT	68	CMP	MAY REQUIRE EMBANKMENT CUT FOR LINING
P-4	24	149+46	28	RT	179+84	25	LT	37	CMP	
P-6	24	180+10	25	RT	180+10	42	LT	67.5	CMP	MAY REQUIRE EMBANKMENT CUT FOR LINING, MAY REQUIRE CUSTOM LINER PIPE LENGTH
P-7	24	184+95	12	RT	184+95	44	LT	55.5	CMP	MAY REQUIRE EMBANKMENT CUT FOR LINING, MAY REQUIRE CUSTOM LINER PIPE LENGTH
P-8	24	186+80	22	RT	186+80	46	LT	68	CMP	MAY REQUIRE EMBANKMENT CUT FOR LINING, MAY REQUIRE CUSTOM LINER PIPE LENGTH
P-9	24	190+10	22	RT	190+10	37	LT	59.5	CMP	MAY REQUIRE EMBANKMENT CUT FOR LINING
P-10	30"24"	214+26	36	RT	214+63	44	LT	88	CMP	
P-11	24	215+76	29	RT	215+82	43	LT	72	CMP	
P-12	24	216+93	32	RT	216+93	43	LT	76	CMP	
P-13	24	219+65	30	RT	219+52	39	LT	70	CMP	
P-14	24	220+58	15	RT	220+78	38	LT	56.5	CMP	27' FROM OUTLET AT 9:00 2" DEFORMATION IS NOTED. IF LINER CAN NOT PASS SEE DETAIL 2/ E1 FOR HOST PIPE CORRECTION
P-16	24	223+31	27	RT	223+31	47	LT	74	CMP	

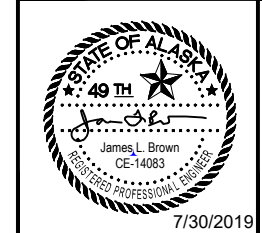
P-7 was installed 10/14/21 56.42LF.
 P-8 was installed 10/12/21 69.1 LF.
 P-9 Was installed 10/13/21 61.3 LF.
 P-10 was installed 10/18/21 88.9 LF
 P-11 was installed 10/15/21 75.5 LF.
 P-12 was installed 10/16/21 79.3 LF.
 P-13 was installed 10/15/21 71.7 LF.
 P-14 was installed 10/12/21 57 LF.
 P-16 was installed 10/08/21 75 LF.

Note. P-10 was a 30" CMP. it was slip lined with 26"x 24ft. pieces.

NOTES:
 1. CULVERT LENGTHS ROUNDED UP TO THE NEAREST 0.5FT.

[604.0005.000A] INLET, TYPE A						
INLET NO.	STATION	OFFSET	CASING ELEV. (FT)	INLET INVERT (FT)	OUTLET INVERT (FT)	NOTES
S-1	179+45	27.5	RT	26.8	23.6	REPLACE EXISTING INLET

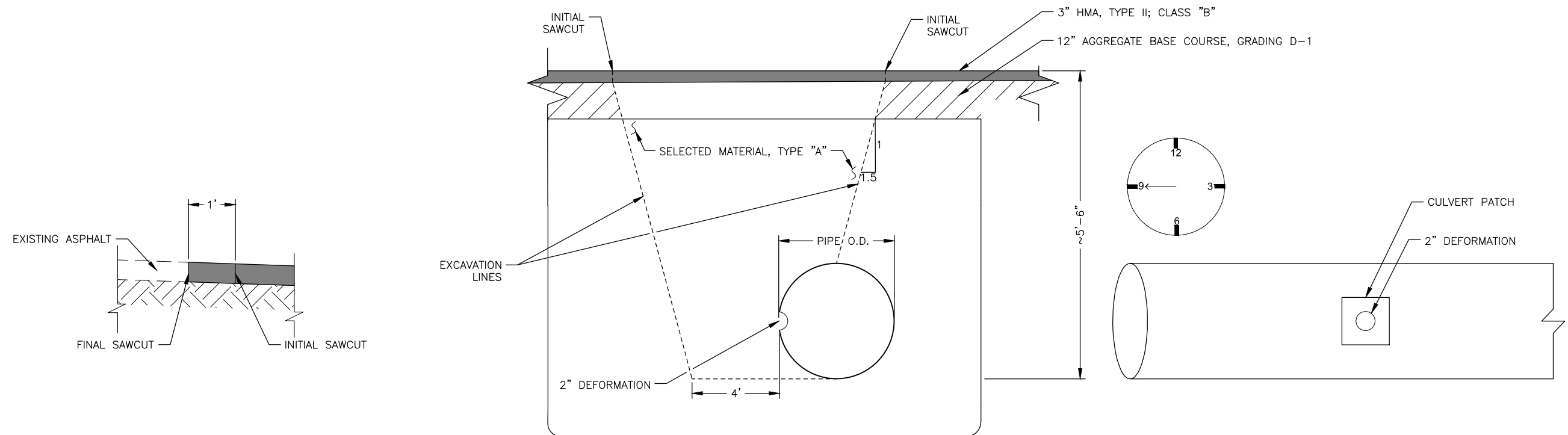
S-1 was reused



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 JNU GLACIER HWY/TWIN LAKES
 DR-LEMON RD CULVERT
 ASSESSMENT
 SUMMARIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFH000083/0955019	2019	E1	24

This repair was not necessary, and or actualized.



1 SAW CUT DETAIL
E1 SCALE: NOT TO SCALE

2 CULVERT P-14 DEFORMATION AND PATCH DETAIL
E1 SCALE: NOT TO SCALE

NOTES:

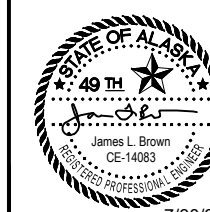
1. THIS DETAIL APPLIES TO ALL ASPHALT SAWCUTS.
2. INITIALLY SAWCUT EXISTING ASPHALT TO PROTECT FINAL CUT EDGE DURING ASPHALT REMOVAL & BASE COURSE PREPARATION.
3. FINAL SAWCUT 24 HOURS PRIOR TO PAVING. PROTECT FINAL SAWCUT EDGE FROM DAMAGE.
4. INITIAL SAWCUT MAY BE ELIMINATED IF PAVING IS TO TAKE PLACE WITHIN 24 HRS AND SAWCUT EDGE IS PROTECTED FROM DAMAGE, PRIOR TO PAVING.
5. FINAL SAWCUT SHALL BE STRAIGHT & THE FULL DEPTH OF EXISTING ASPHALT.

NOTES:

1. REMOVE DEFORMED AREA OF CULVERT
2. PATCH CULVERT TO WITHSTAND PRESSURES EXERTED DURING PRESSURE GROUTING PROCESS FOR CULVERT LINER.

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

PE *Randall E. Johnston* DATE 05/02/2022



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
JNU GLACIER HWY/TWIN LAKES
DR-LEMON RD CULVERT
ASSESSMENT

DETAILS

FILE Q:\Inu\SFH000083\PlanSet\00083_E1.dwg DATE 7/30/2019 10:50 LAYOUT E1 DESIGNED BW CHECKED JB DRAFTED BW

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWHY00083/0955019	2019	E2	24

FILE Q:\Inu\SFHWHY00083\Plan\set\00083_E1.dwg

BW

DRAFTED

JB

CHECKED

BW

DESIGNED

E2

LAYOUT

10:50

DATE

7/30/2019

7/30/2019

10:50

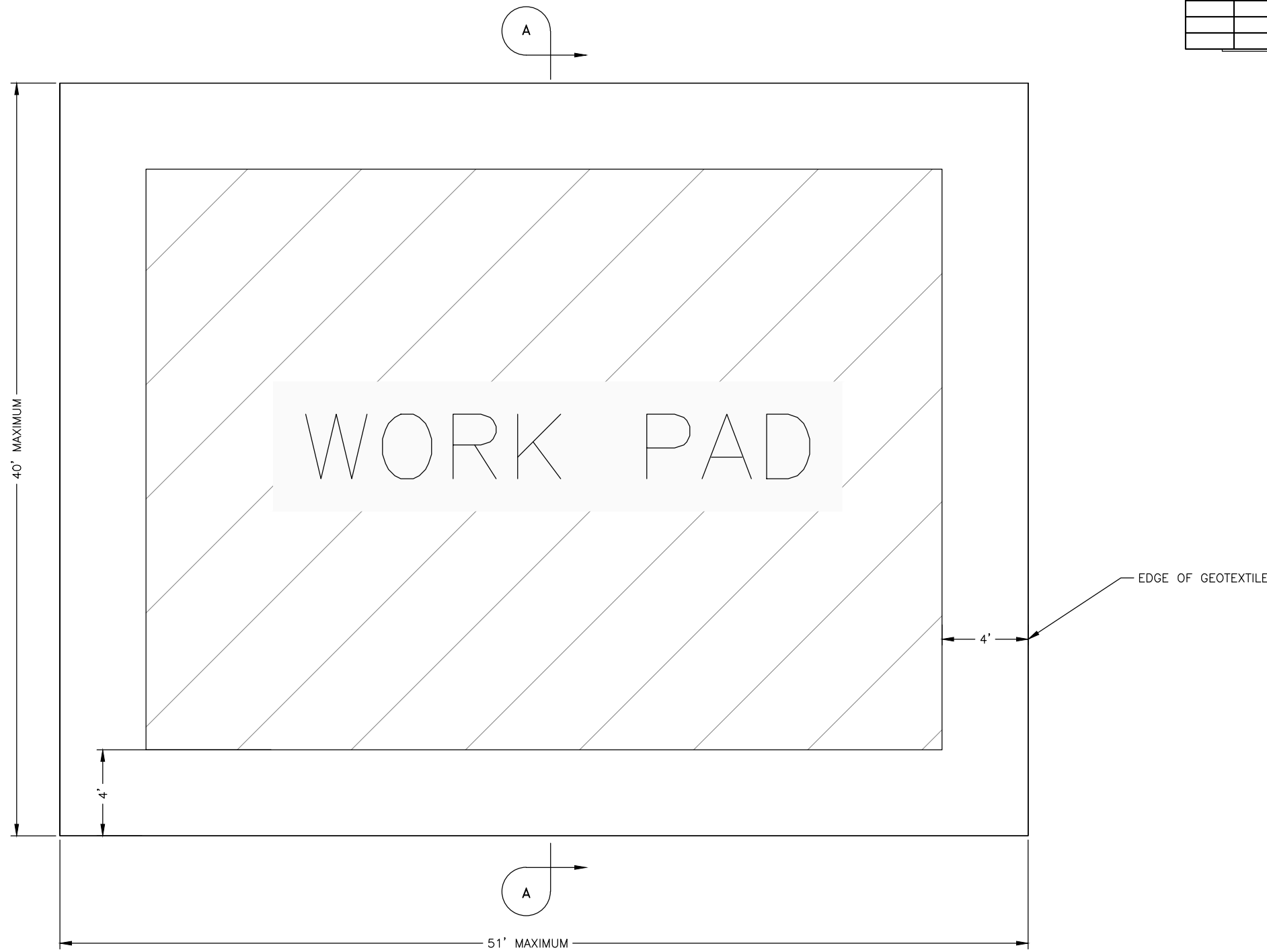
E2

LAYOUT

10:50

DATE

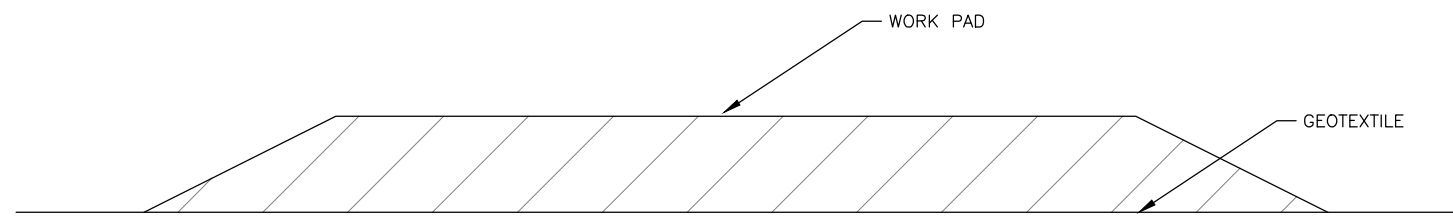
7/30/2019



NOTES:

1. PLACE GEOTEXTILE FABRIC PRIOR TO STARTING WORK.
2. USE A GEOTEXTILE WITH A MAXIMUM SIZE OF 40' X 51'.
3. DO NOT GRUB GROUND BELOW GEOTEXTILE.
4. WORK PAD SHALL NOT BE WITHIN 4 FEET OF GEOTEXTILE EDGE.
5. REMOVE ALL WORK PAD MATERIAL PRIOR TO PROJECT COMPLETION.
6. WORK PAD IS REQUIRED WHEN ANY WORK IS PERFORMED FROM A UNITED STATES COAST GUARD EASEMENT

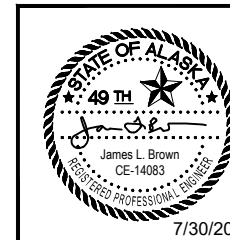
1 TEMPORARY WORK PAD: PLAN VIEW
E2 SCALE: NTS



2 TEMPORARY WORK PAD: SECTION A-A
E2 SCALE: NTS

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

PE Randall E. Johnston DATE 05/02/2022

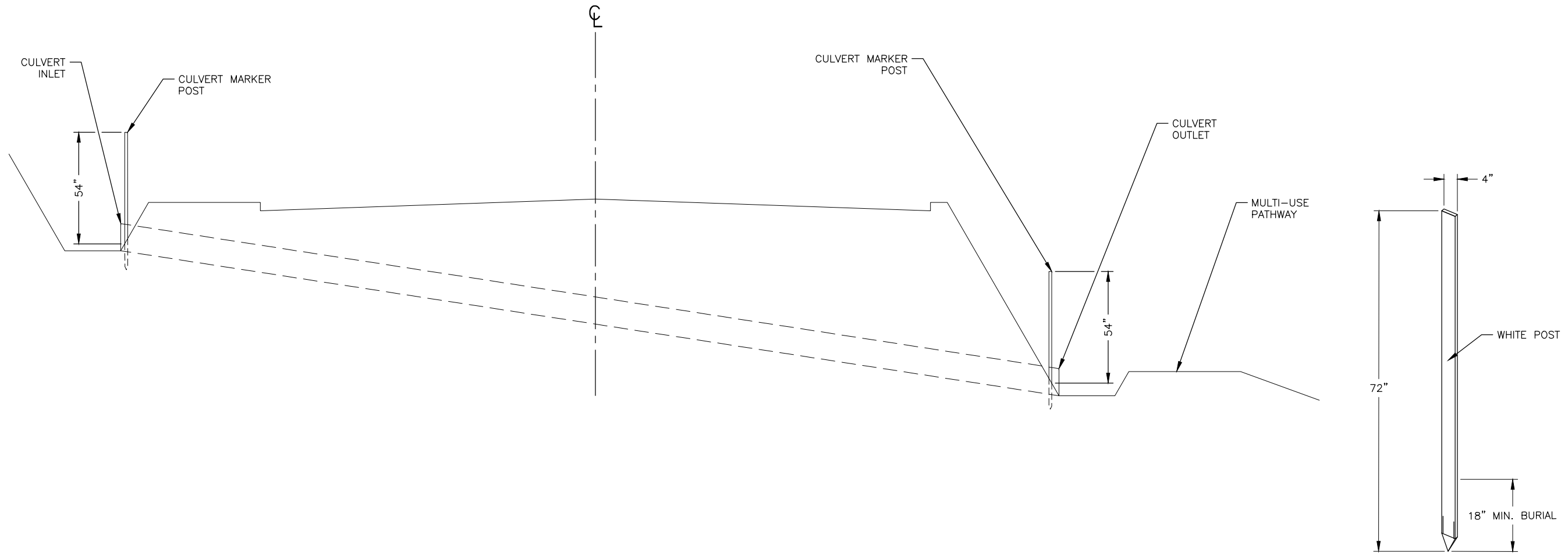


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
JNU GLACIER HWY/TWIN LAKES
DR-LEMON RD CUVLERT
ASSESSMENT

DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWHY00083/0955019	2019	E3	24

FILE Q:\Inu\SFHWHY00083\Plan\set\00083_E1.dwg DATE 7/30/2019 10:50 LAYOUT E3 DESIGNED BW CHECKED JB DRAFTED BW



1 CULVERT MARKER DETAIL
E4 SCALE: NOT TO SCALE

2 CULVERT MARKER NOTES
E6 SCALE: NOT TO SCALE

- NOTES:
1. CULVERT MARKER SHALL BE WHITE IN COLOR

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

PE Randall E. Johnston DATE 05/02/2022

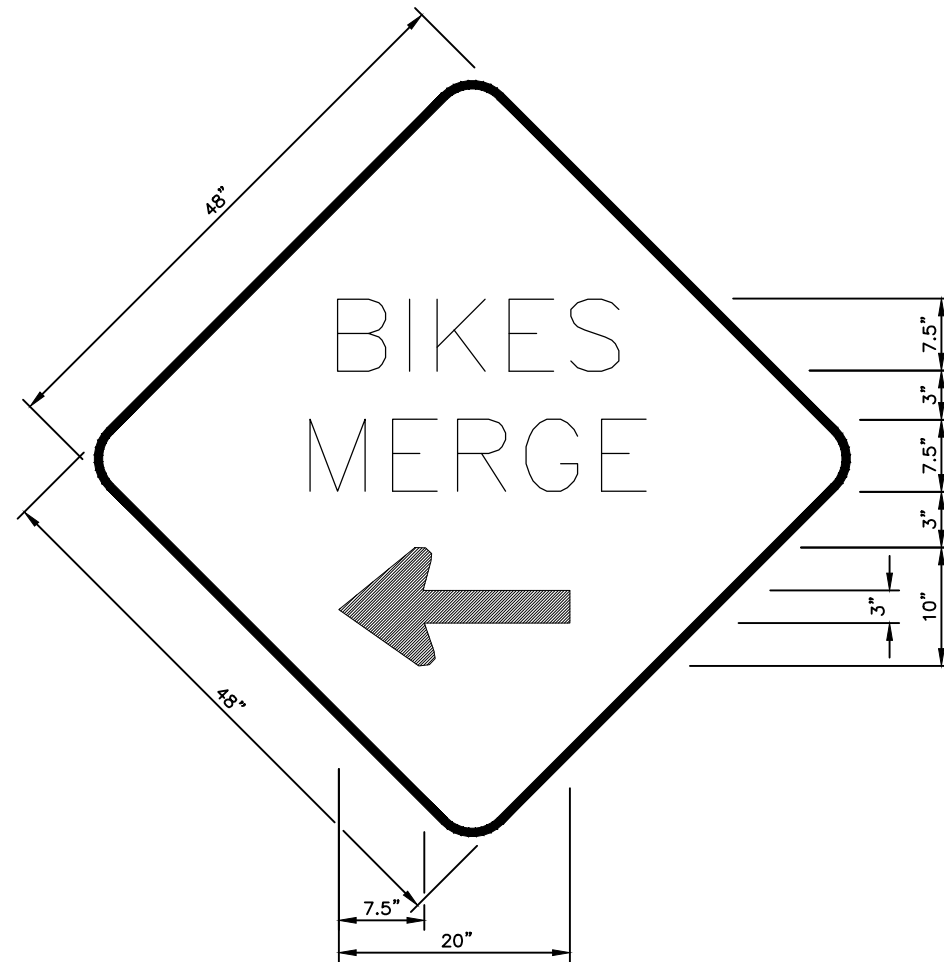


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
JNU GLACIER HWY/TWIN LAKES
DR-LEMON RD CULVERT
ASSESSMENT

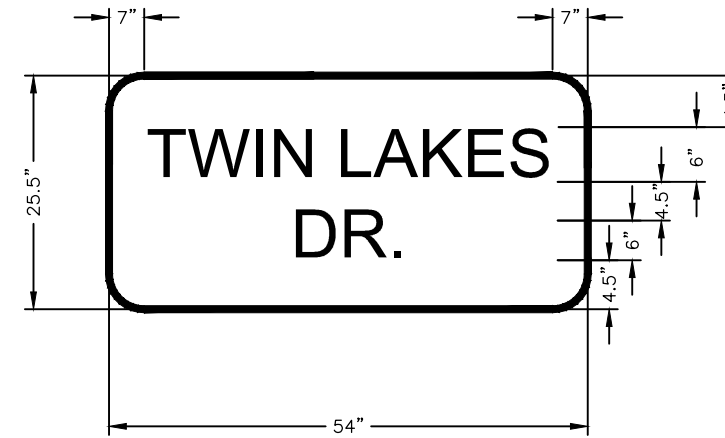
DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWHY00083/0955019	2019	E4	24

FILE Q:\Inu\SFHWHY00083\Planset\00083_E1.dwg DATE 7/30/2019 10:50 LAYOUT E4 DESIGNED BW CHECKED JB DRAFTED BW



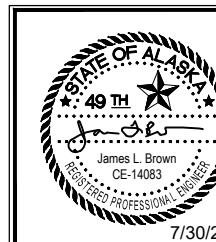
1 BIKES MERGE L
E4 SCALE: NOT TO SCALE



2 W16-8P
E4 SCALE: NOT TO SCALE

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

PE Randall E. Johnston DATE 05/02/2022

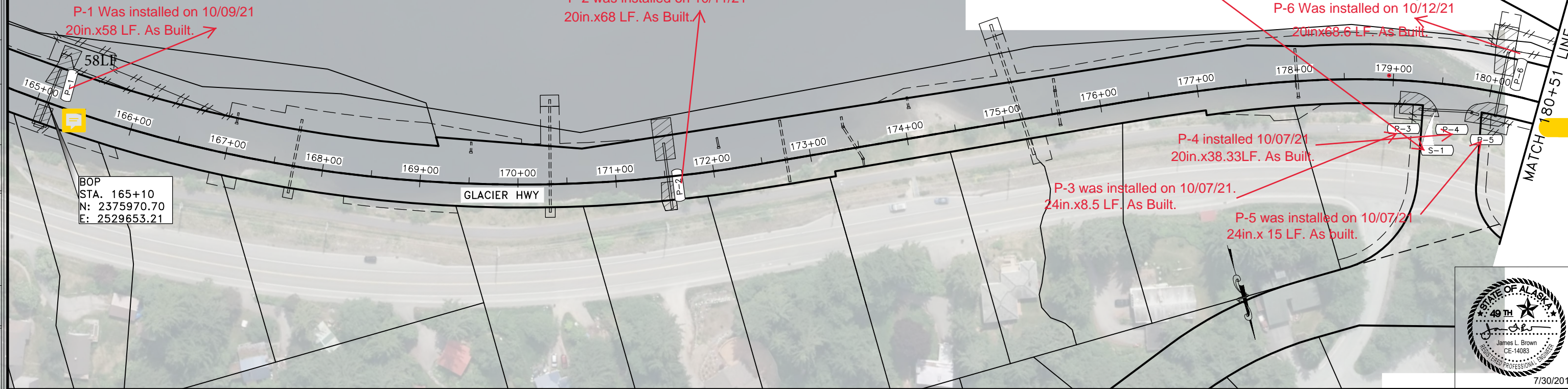


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
JNU GLACIER HWY/TWIN LAKES
DR-LEMON RD CUVLERT
ASSESSMENT

DETAILS

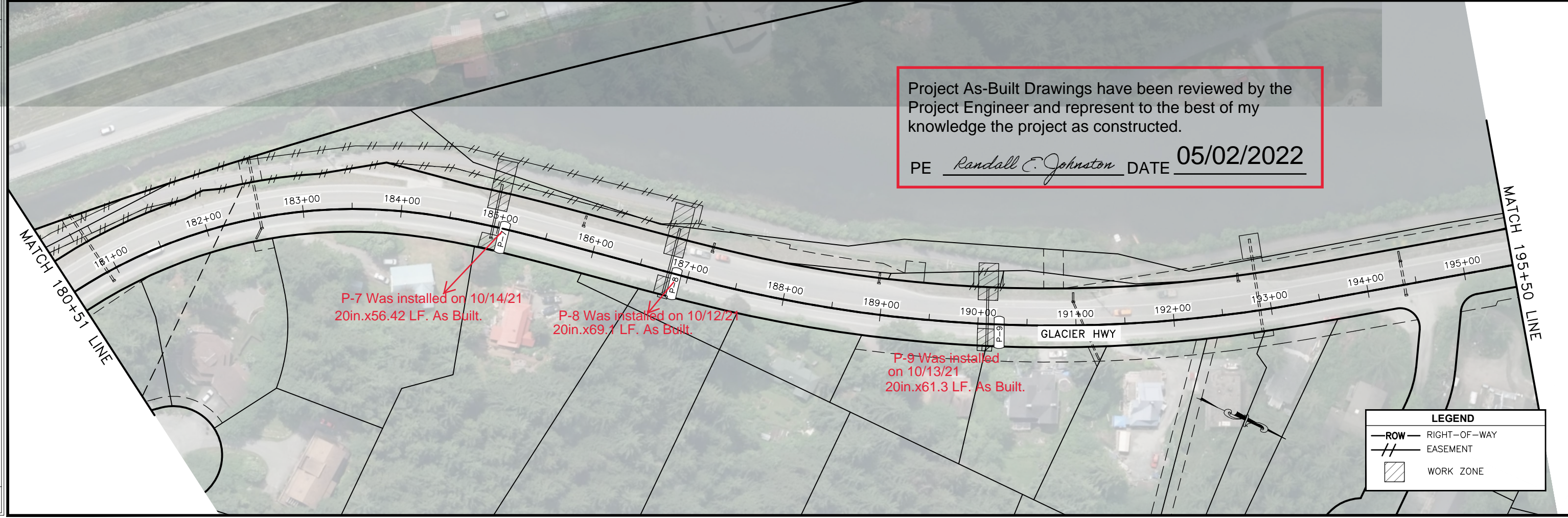
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHwy00083/0955019	2019	F1	24

Installed on 10/09/21 As built.



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

PE Randall E. Johnston DATE 05/02/2022

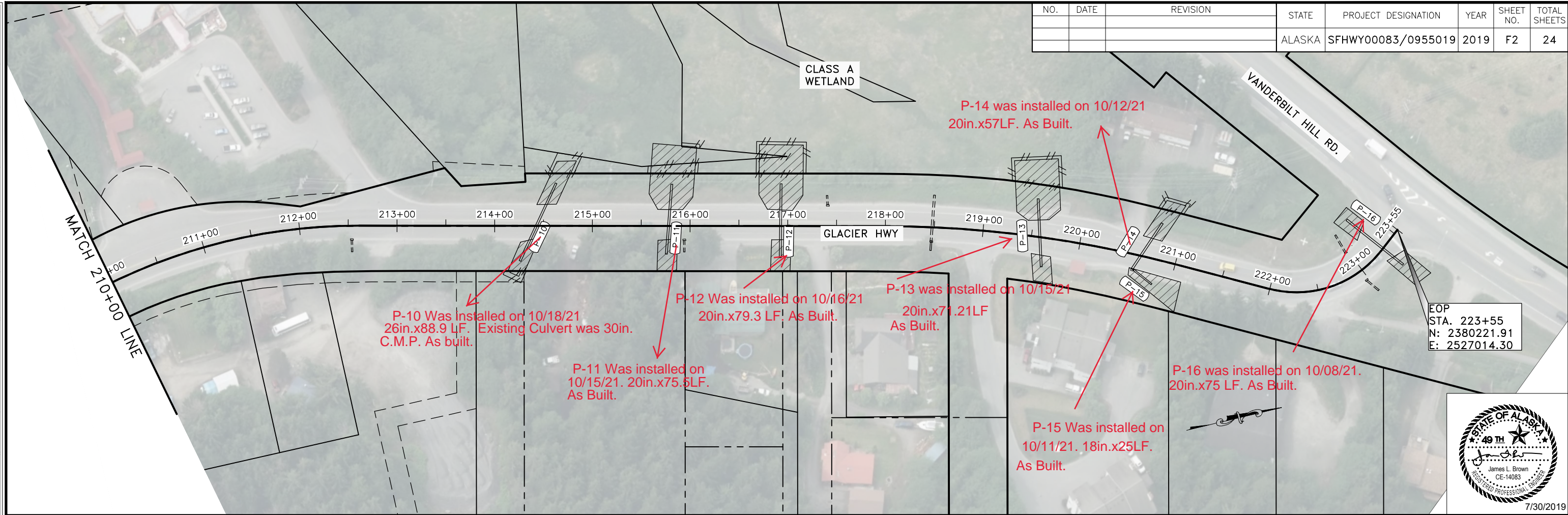


LEGEND	
— ROW —	RIGHT-OF-WAY
//	EASEMENT
[Hatched Box]	WORK ZONE

FIRM STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 FILE G:\nu\SFHwy00083\PlanSet\00083_F1.dwg
 ADDRESS 6860 GLACIER HWY, JUNEAU, AK 99811
 PHONE (907) 465-1763
 DESIGNED BW
 CHECKED JB
 DRAFTED BW
 CERTIFICATE OF AUTH #:
 DATE 7/30/2019 10:54 LAYOUT F1

FIRM STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 FILE G:\nu\SFH\00083\Planset\00083_F1.dwg
 ADDRESS 6860 GLACIER HWY, JUNEAU, AK 99811
 DATE 7/30/2019 10:54 LAYOUT F2
 PHONE (907) 465-1763
 DESIGNED BW
 CHECKED JB
 DRAFTED BW
 CERTIFICATE OF AUTH #:

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFH00083/0955019	2019	F2	24



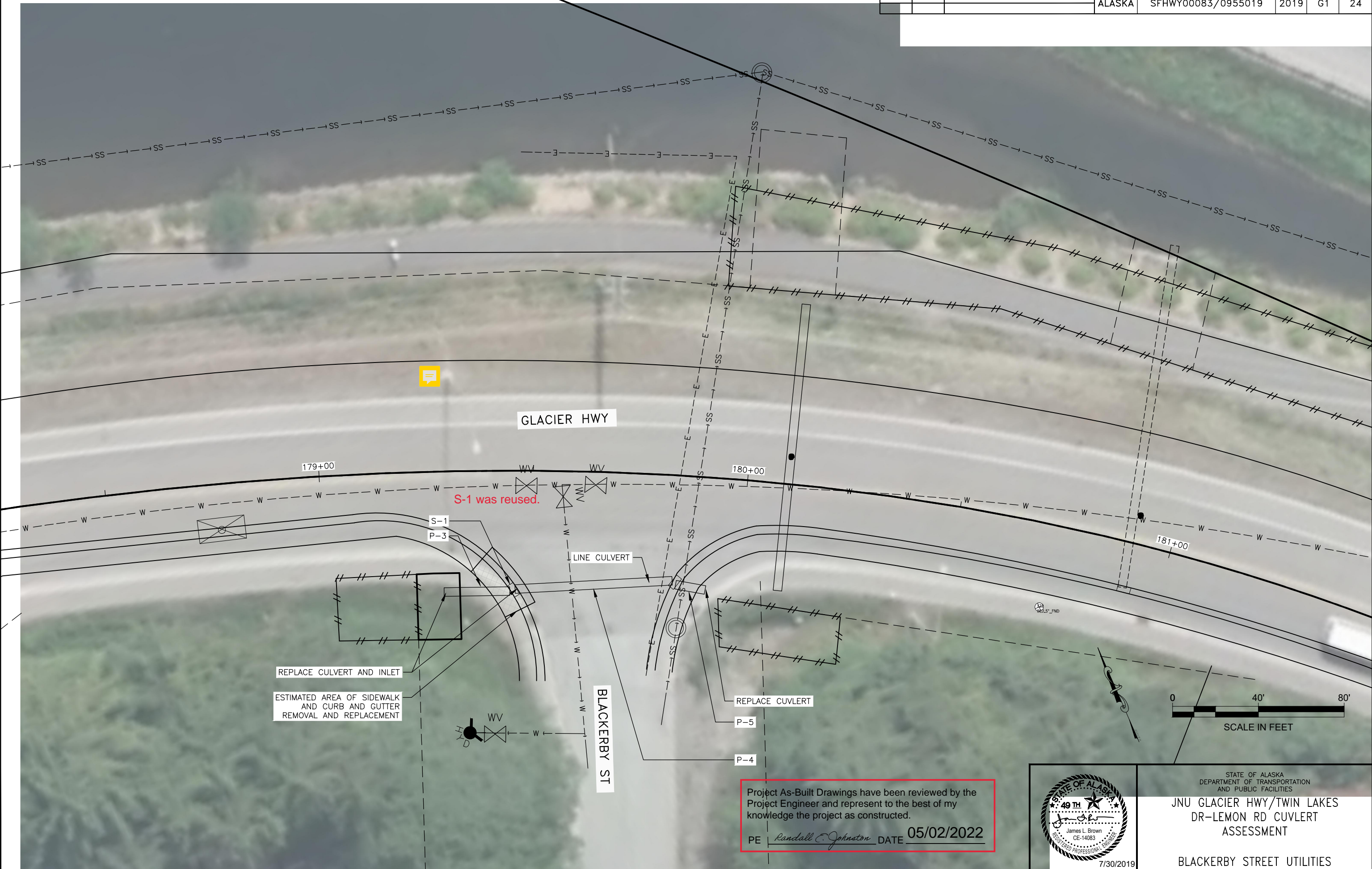
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE Randall E. Johnston DATE 05/02/2022

LEGEND	
—ROW—	RIGHT-OF-WAY
//	EASEMENT
	WORK ZONE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWHY00083/0955019	2019	G1	24

FILE Q:\Inu\SFHWHY00083\Planset\00083_C1.dwg DATE 7/30/2019 10:56 LAYOUT G1 DESIGNED BW CHECKED JB DRAFTED BW



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE *Randall E Johnston* DATE **05/02/2022**

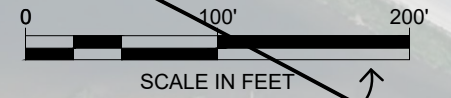


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**JNU GLACIER HWY/TWIN LAKES
 DR-LEMON RD CULVERT
 ASSESSMENT**
 BLACKERBY STREET UTILITIES

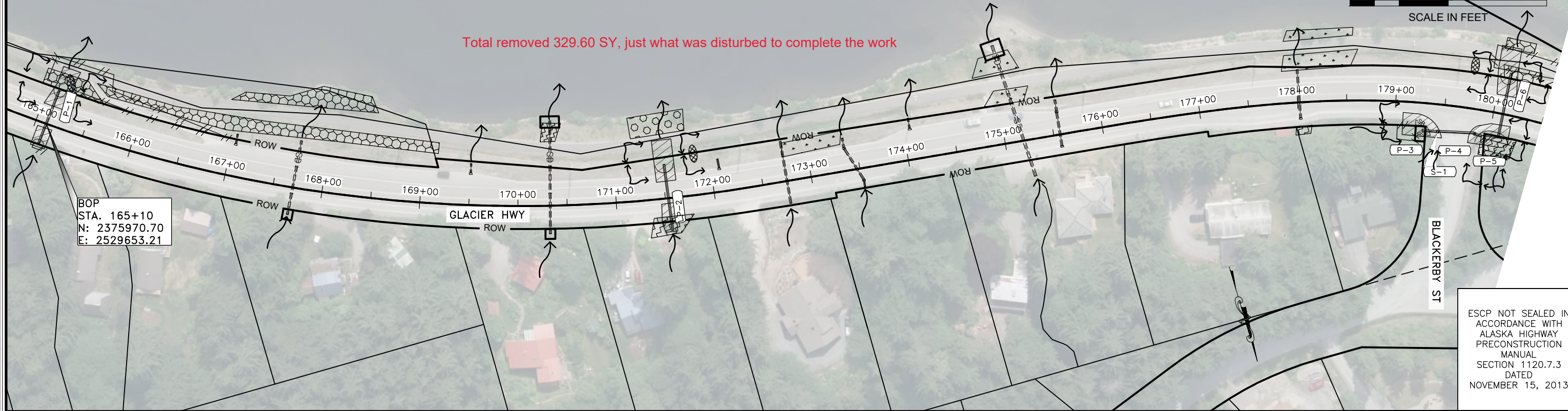
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWHY00083/0955019	2019	P1	24

FIRM STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 FILE G:\nu\sfhwy\00083\Plan\set\00083_P1.dwg
 ADDRESS 6860 GLACIER HWY, JUNEAU, AK 99811
 PHONE (907) 465-1763
 DESIGNED BW
 CHECKED JB
 DRAFTED BW
 CERTIFICATE OF AUTH #:
 DATE 9/3/2019 11:54 LAYOUT P1

TWIN LAKES
WATERS OF THE US



Total removed 329.60 SY, just what was disturbed to complete the work



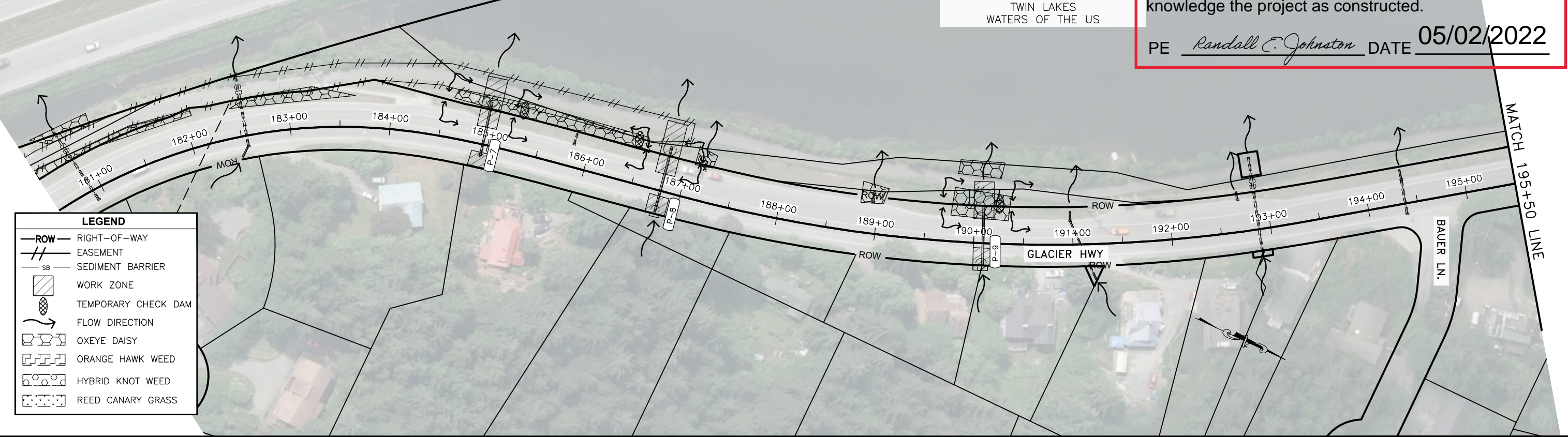
ESCP NOTES:

1. ALL SOIL STABILIZATION ADJACENT TO THE MULTI-USE PATHWAY AT CULVERT OUTLETS SHALL BE PERMANENTLY STABILIZED WITH CLASS 1 RIPRAP.
2. INVASIVE PLANT SPECIES IN PROJECT AREA ARE LISTED- OXEYE DAISY, CANARY REED GRASS, ORANGE HAWK WEED, HYBRID KNOT WEED.
3. SOME INVASIVE AREAS CONTAIN MULTIPLE SPECIES.

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

PE Randall E. Johnston DATE 05/02/2022

TWIN LAKES
WATERS OF THE US

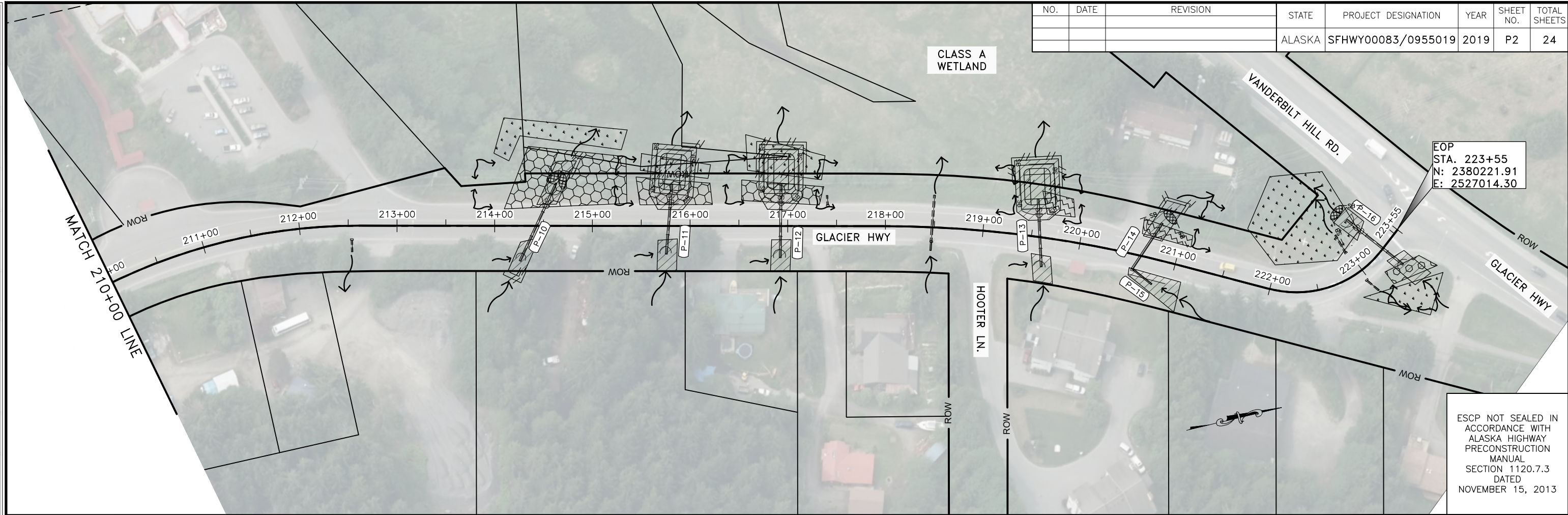


LEGEND

— ROW —	RIGHT-OF-WAY
==	EASEMENT
— SB —	SEDIMENT BARRIER
[Hatched Box]	WORK ZONE
[Cross-hatched Box]	TEMPORARY CHECK DAM
[Arrow]	FLOW DIRECTION
[Dotted Pattern]	OXEYE DAISY
[Grid Pattern]	ORANGE HAWK WEED
[Wavy Pattern]	HYBRID KNOT WEED
[Vertical Line Pattern]	REED CANARY GRASS

FIRM STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 FILE G:\nu\SFH\00083\PlanSet\00083_P1.dwg
 ADDRESS 6860 GLACIER HWY, JUNEAU, AK 99811
 DATE 9/3/2019 11:54 LAYOUT P2
 PHONE (907) 465-1763
 DESIGNED BW
 CHECKED JB
 DRAFTED BW
 CERTIFICATE OF AUTH #:

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFH\00083/0955019	2019	P2	24



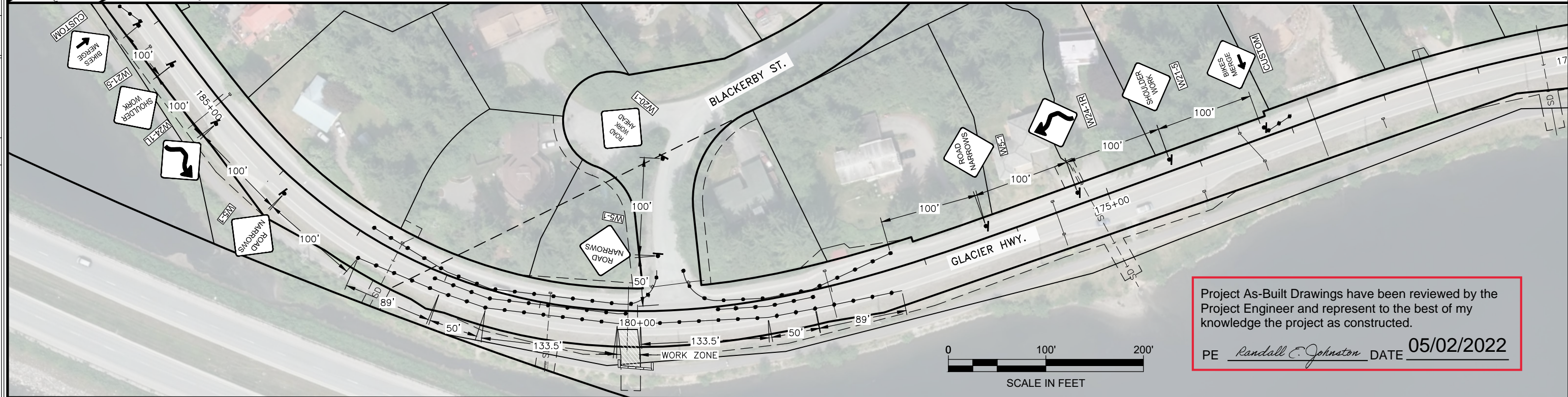
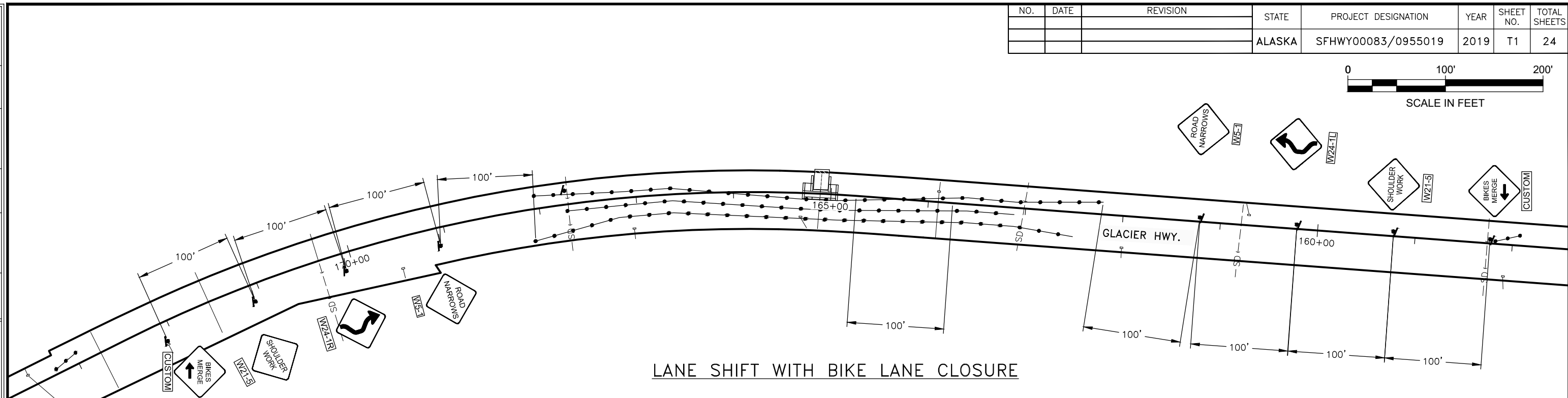
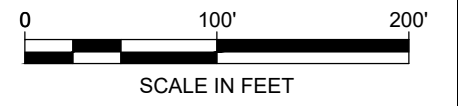
EOP
 STA. 223+55
 N: 2380221.91
 E: 2527014.30

ESCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1120.7.3 DATED NOVEMBER 15, 2013

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE Randall E. Johnston DATE 05/02/2022

LEGEND	
	ROW RIGHT-OF-WAY
	EASEMENT
	SEDIMENT BARRIER
	WORK ZONE
	TEMPORARY CHECK DAM
	FLOW DIRECTION
	OXEYE DAISY
	ORANGE HAWK WEED
	HYBRID KNOT WEED
	REED CANARY GRASS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWY00083/0955019	2019	T1	24



TRAFFIC CONTROL NOTES:

1. A MINIMUM 5' WIDTH SHALL BE MAINTAINED AT ALL TIME FOR TEMPORARY PEDESTRIAN PATHWAY, AND RECREATIONAL WALKWAY.
2. ONLY ONE PATHWAY SHALL BE RESTRICTED AND/OR DIVERTED AT A TIME.
3. UTILIZE EXISTING RAMPS FOR TEMPORARY PEDESTRIAN PATHWAY OR PROVIDE ADA COMPLIANT RAMPS.
4. UTILIZE COMMERCIALY AVAILABLE ADA COMPLIANT PEDESTRIAN BARRICADES.
5. MAINTAIN A MINIMUM LANE WIDTH OF 10' IN EACH DIRECTION.
6. IF LANE WIDTH IS REDUCED, ADD W5-1 IN EACH DIRECTION.
7. DO NOT IMPEDE ACCESS TO DRIVEWAYS
8. INSTALL R3-5R FOR DRIVES WITHIN LANE SHIFT ON NORTH SIDE OF GLACIER HWY. AND R3-5L FOR DRIVES ON SOUTH OF GLACIER HWY.
9. TRAFFIC CONTROL PLAN FOR DAY USE ONLY. IF TRAFFIC CONTROL IS REQUIRED AFTER WORK HOURS AND/OR AT NIGHT, DRUMS WILL BE USED IN PLACE OF CONES.
10. TRAFFIC CONTROL PLAN VALID FOR TRAFFIC DEVIATIONS OF 600' OR LESS.

TCP SETUP TABLE

SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE (FT)
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
40	270	295	320	8	9	9	20	20	305
45	450	495	540	11	12	13	45	90	360
55	550	605	660	11	12	13	55	110	495

LEGEND

	SIGN
	TRAFFIC CONE
	PEDESTRIAN BARRIER
	ADA PEDESTRIAN RAMP

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

JNU GLACIER HWY/TWIN LAKES
DR-LEMON RD CUVLERT
ASSESSMENT

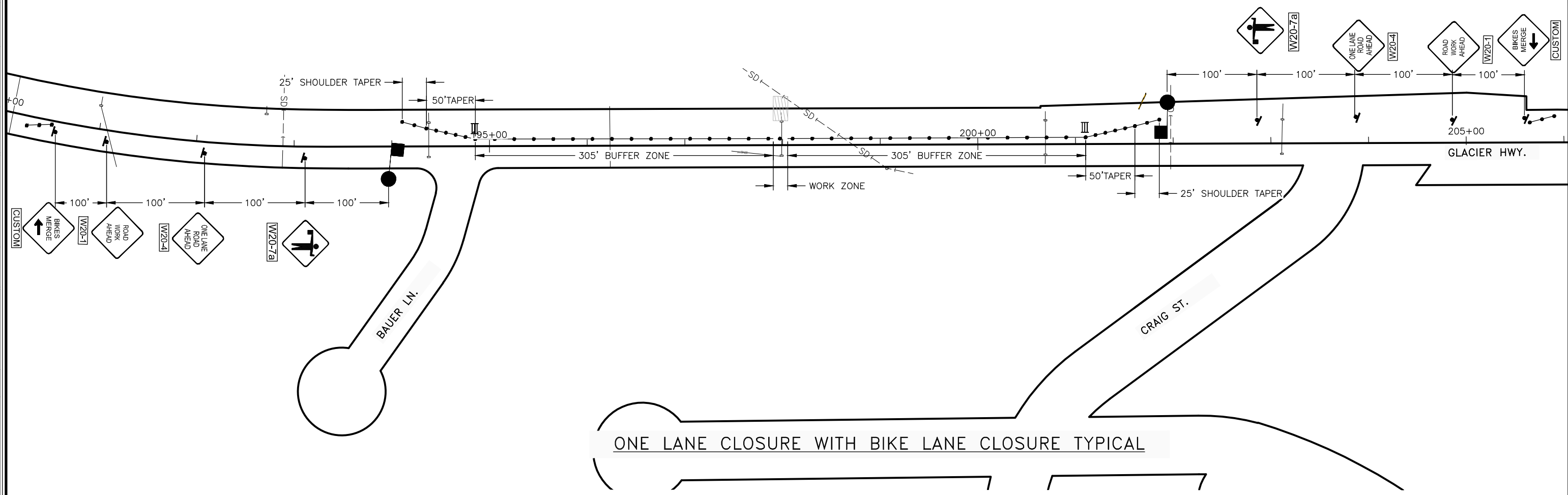
TCP

FILE G:\nu\sfhw00083\Plan\set\00083_T1_1.dwg DATE 9/3/2019 12:00 LAYOUT T1 DESIGNED BW CHECKED JB DRAFTED BW

FILE G:\nuh\SFH\00083\Plans\00083_T1_1.dwg DATE 9/3/2019 12:00 LAYOUT T2 DESIGNED BW CHECKED JB DRAFTED BW



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFH\00083\0955019	2019	T2	24



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE Randall E. Johnston DATE 05/02/2022

- TRAFFIC CONTROL NOTES:**
1. ONLY ONE PATHWAY SHALL BE RESTRICTED AND/OR DIVERTED AT A TIME.
 2. MAINTAIN A MINIMUM LANE WIDTH OF 10'.
 3. IF LANE WIDTH IS REDUCED, ADD W5-1 IN EACH DIRECTION.
 4. DO NOT IMPEDE ACCESS TO DRIVEWAYS
 5. TRAFFIC CONTROL PLAN FOR DAY USE ONLY. IF TRAFFIC CONTROL IS REQUIRED AFTER WORK HOURS AND/OR AT NIGHT, DRUMS WILL BE USED IN PLACE OF CONES.
 6. TAPERS ARE MARKED WITH 6 CONES, EVENLY SPACED.

SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE (FT)
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
40	270	295	320	8	9	9	20	20	305
45	450	495	540	11	12	13	45	90	360
55	550	605	660	11	12	13	55	110	495

	SIGN
	TRAFFIC CONE
	FLAGGER
	PEDESTRIAN BARRIER
	TYPE III BARRIER

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012

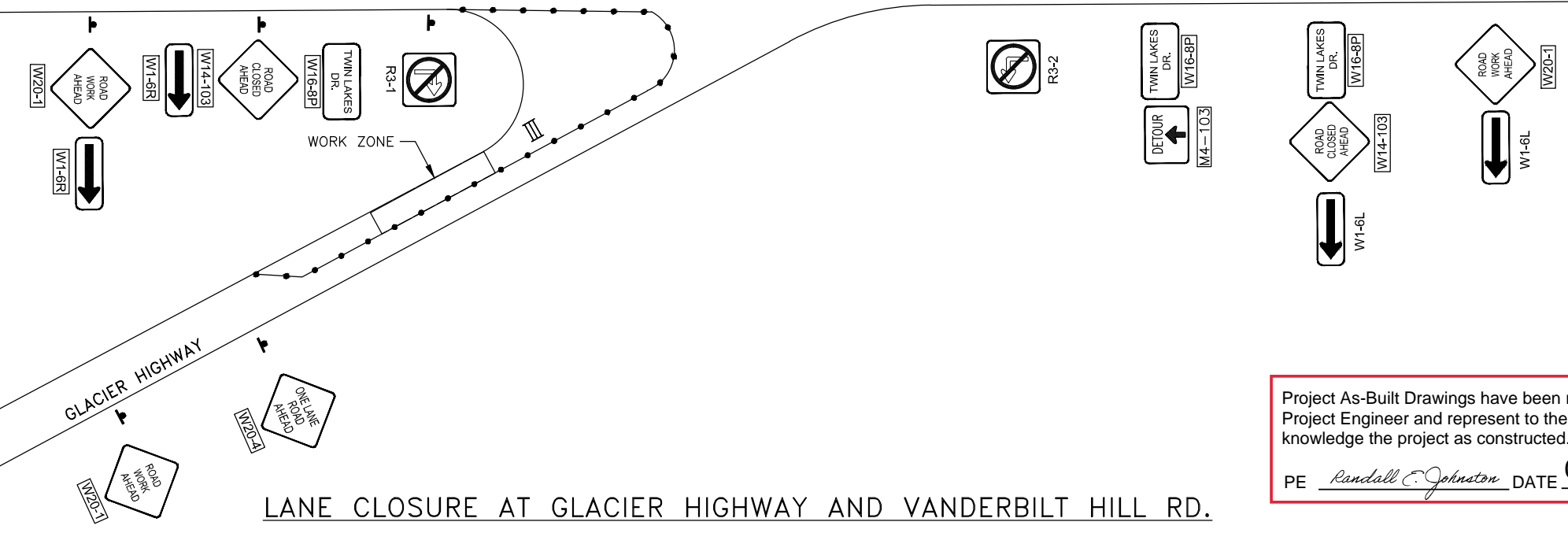
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
**JNU GLACIER HWY/TWIN LAKES
 DR-LEMON RD CULVERT
 ASSESSMENT**
 TCP

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHwy00083/0955019	2019	T3A	24

FILE G:\jnu\SFHwy00083\PlanSet\00083_T1_1.dwg
 DATE 9/3/2019 12:00 LAYOUT T3A
 DESIGNED BW
 CHECKED JB
 DRAFTED BW

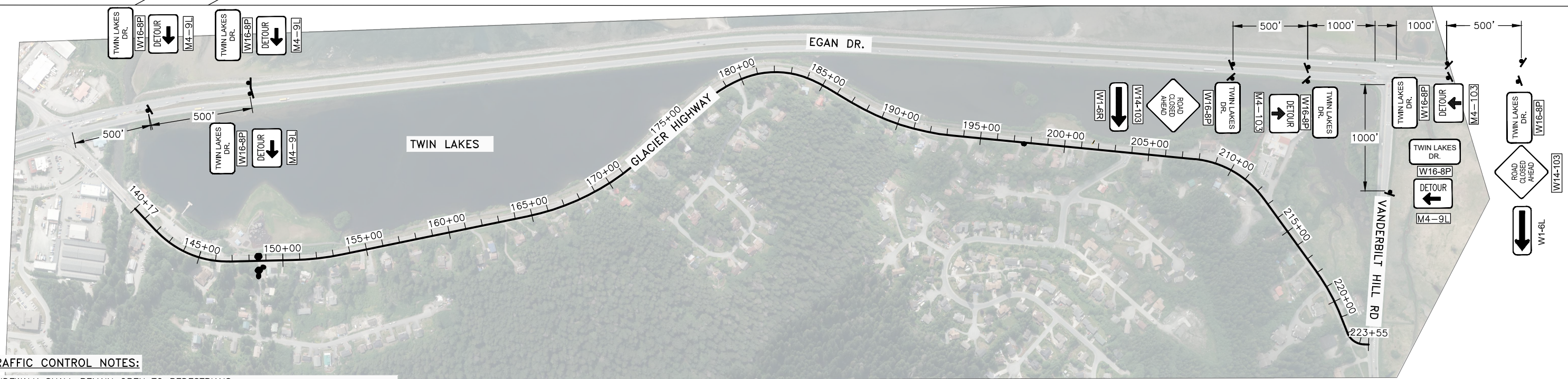
VANDERBILT HILL RD

GLACIER HWY.



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE *Randall C. Johnston* DATE 05/02/2022

LANE CLOSURE AT GLACIER HIGHWAY AND VANDERBILT HILL RD.



TRAFFIC CONTROL NOTES:

- SIDEWALK SHALL REMAIN OPEN TO PEDESTRIANS
- MAINTAIN A MINIMUM LANE WIDTH OF 10'.
- IF LANE WIDTH IS REDUCED, ADD W5-1 IN EACH DIRECTION.
- DO NOT IMPEDE ACCESS TO DRIVEWAYS
- TRAFFIC CONTROL PLAN FOR DAY USE ONLY. IF TRAFFIC CONTROL IS REQUIRED AFTER WORK HOURS AND/OR AT NIGHT, DRUMS WILL BE USED IN PLACE OF CONES.
- TAPERS ARE MARKED WITH 6 CONES, EVENLY SPACED.

TCP SETUP TABLE

SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE (FT)
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
40	270	295	320	8	9	9	20	20	305
45	450	495	540	11	12	13	45	90	360
55	550	605	660	11	12	13	55	110	495

LEGEND

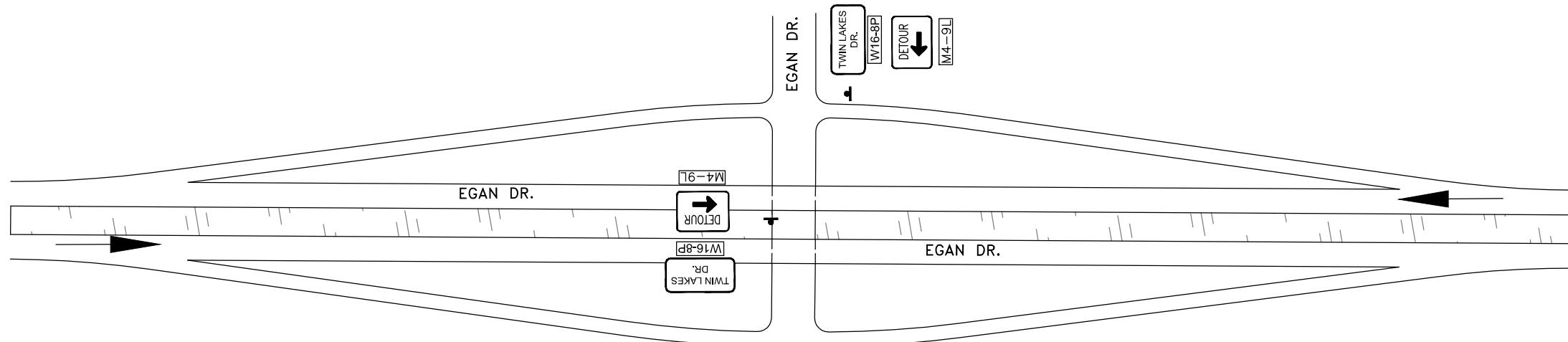
- ◄ SIGN
- TRAFFIC CONE
- FLAGGER
- III TYPE III BARRIER

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 JNU GLACIER HWY/TWIN LAKES DR-LEMON RD CUVLERT ASSESSMENT
 TCP

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHWHY00083/0955019	2019	T3B	24

FILE G:\jnu\SFHWHY00083\PlanSet\00083_T1_1.dwg
 DATE 9/3/2019 12:00 LAYOUT T3B DESIGNED BW CHECKED JB DRAFTED BW



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

PE Randall E. Johnston DATE 05/02/2022

DETOUR SIGNING AT EGAN DR INTERCHANGE FOR ONE LANE CLOSURE AT GLACIER HWY AND VANDERBILT HILL RD.

TRAFFIC CONTROL NOTES:

1. SIDEWALK SHALL REMAIN OPEN TO PEDESTRIANS
2. MAINTAIN A MINIMUM LANE WIDTH OF 10'.
3. IF LANE WIDTH IS REDUCED, ADD W5-1 IN EACH DIRECTION.
4. DO NOT IMPEDE ACCESS TO DRIVEWAYS
5. TRAFFIC CONTROL PLAN FOR DAY USE ONLY. IF TRAFFIC CONTROL IS REQUIRED AFTER WORK HOURS AND/OR AT NIGHT, DRUMS WILL BE USED IN PLACE OF CONES.
6. TAPERS ARE MARKED WITH 6 CONES, EVENLY SPACED.

SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE (FT)
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
40	270	295	320	8	9	9	20	20	305
45	450	495	540	11	12	13	45	90	360
55	550	605	660	11	12	13	55	110	495

LEGEND	
	SIGN
	TRAFFIC CONE
	FLAGGER
	TYPE III BARRIER

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012

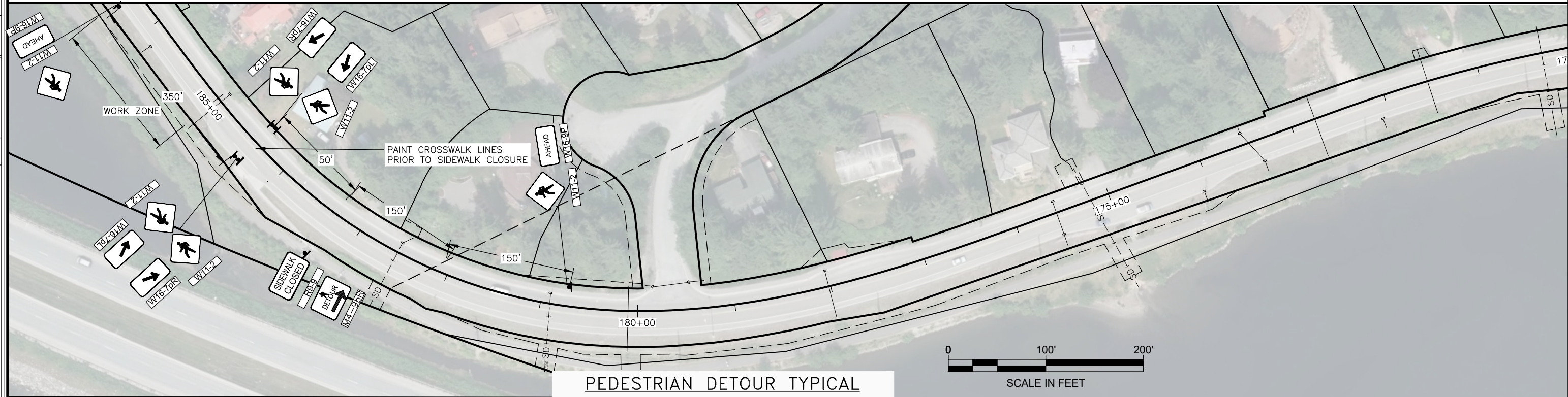
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**JNU GLACIER HWY/TWIN LAKES
 DR-LEMON RD CUVLERT
 ASSESSMENT**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFH000083/0955019	2019	T4	24

FILE G:\Inu\SFH000083\Plan\set\00083_T1_1.dwg
 DATE 9/3/2019 12:00 LAYOUT T4
 DESIGNED BW
 CHECKED JB
 DRAFTED BW

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

PE Randall E. Johnston DATE 05/02/2022



PEDESTRIAN DETOUR TYPICAL

TRAFFIC CONTROL NOTES:

1. A MINIMUM 5' WIDTH SHALL BE MAINTAINED AT ALL TIME FOR TEMPORARY PEDESTRIAN PATHWAY, AND RECREATIONAL WALKWAY.
2. MAINTAIN A MINIMUM LANE WIDTH OF 10'.
3. ONLY ONE PATHWAY SHALL BE RESTRICTED AND/OR DIVERTED AT A TIME.
4. UTILIZE EXISTING RAMPS FOR TEMPORARY PEDESTRIAN PATHWAY OR PROVIDE ADA COMPLIANT RAMPS.
5. UTILIZE COMMERCIALY AVAILABLE ADA COMPLIANT PEDESTRIAN BARRICADES.
6. DO NOT IMPEDE ACCESS TO DRIVEWAYS
7. TRAFFIC CONTROL PLAN FOR DAY USE ONLY. IF TRAFFIC CONTROL IS REQUIRED AFTER WORK HOURS AND/OR AT NIGHT, DRUMS WILL BE USED IN PLACE OF CONES.
8. TRAFFIC CONTROL PLAN VALID FOR TRAFFIC DEVIATIONS OF 600' OR LESS.
9. ALL PEDESTRIAN SIGNS SHALL HAVE ENHANCED CONSPICUITY DEVICES INSTALLED.

TCP SETUP TABLE

SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE (FT)
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
40	270	295	320	8	9	9	20	20	305
45	450	495	540	11	12	13	45	90	360
55	550	605	660	11	12	13	55	110	495

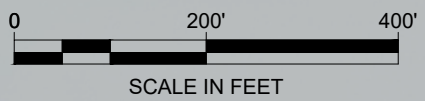
LEGEND

- SIGN
- TRAFFIC CONE
- PEDESTRIAN BARRIER
- ADA PEDESTRIAN RAMP

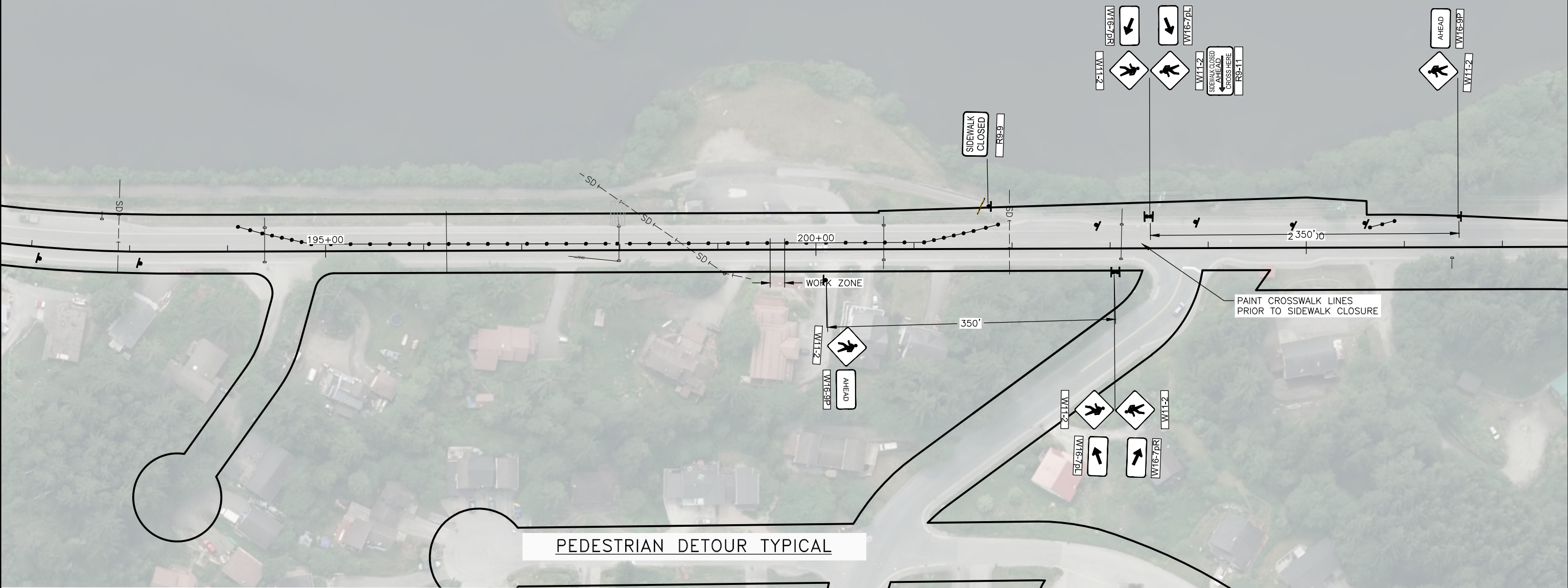
TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
**JNU GLACIER HWY/TWIN LAKES
 DR-LEMON RD CUVLERT
 ASSESSMENT**
 TCP

FILE G:\Inu\SFHwy00083\Planset\00083_T1_1.dwg
 DATE 9/3/2019 12:00 LAYOUT T5
 DESIGNED BW
 CHECKED JB
 DRAFTED BW



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	SFHwy00083/0955019	2019	T5	24



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

PE Randall E. Johnston DATE 05/02/2022

TRAFFIC CONTROL NOTES:

1. A MINIMUM 5' WIDTH SHALL BE MAINTAINED AT ALL TIME FOR TEMPORARY PEDESTRIAN PATHWAY, AND RECREATIONAL WALKWAY.
2. MAINTAIN A MINIMUM LANE WIDTH OF 10'.
3. ONLY ONE PATHWAY SHALL BE RESTRICTED AND/OR DIVERTED AT A TIME.
4. UTILIZE EXISTING RAMPS FOR TEMPORARY PEDESTRIAN PATHWAY OR PROVIDE ADA COMPLIANT RAMPS.
5. UTILIZE COMMERCIALY AVAILABLE ADA COMPLIANT PEDESTRIAN BARRICADES.
6. DO NOT IMPEDE ACCESS TO DRIVEWAYS
7. TRAFFIC CONTROL PLAN FOR DAY USE ONLY. IF TRAFFIC CONTROL IS REQUIRED AFTER WORK HOURS AND/OR AT NIGHT, DRUMS WILL BE USED IN PLACE OF CONES.
8. TRAFFIC CONTROL PLAN VALID FOR TRAFFIC DEVIATIONS OF 600' OR LESS.
9. ALL PEDESTRIAN SIGNS SHALL HAVE ENHANCED CONSPICUITY DEVICES INSTALLED.

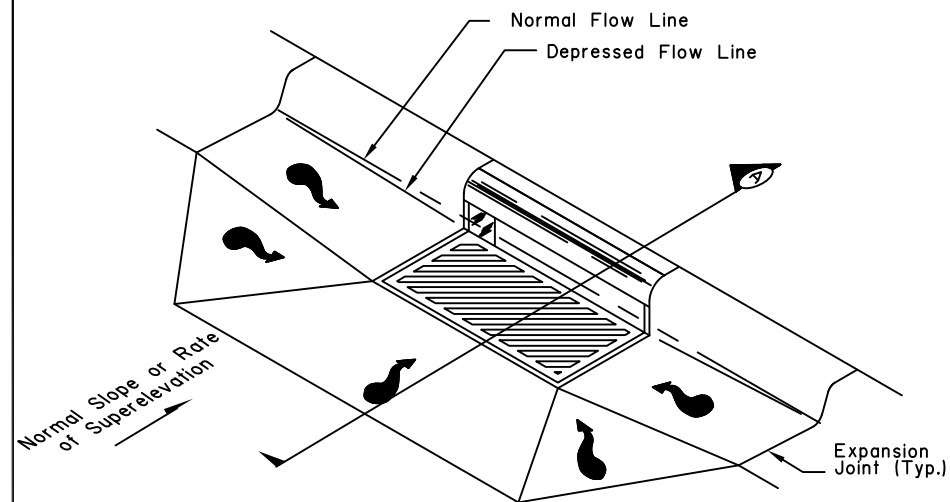
SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE (FT)
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
40	270	295	320	8	9	9	20	20	305
45	450	495	540	11	12	13	45	90	360
55	550	605	660	11	12	13	55	110	495

	SIGN
	TRAFFIC CONE
	FLAGGER
	PEDESTRIAN BARRIER
	TYPE III BARRIER

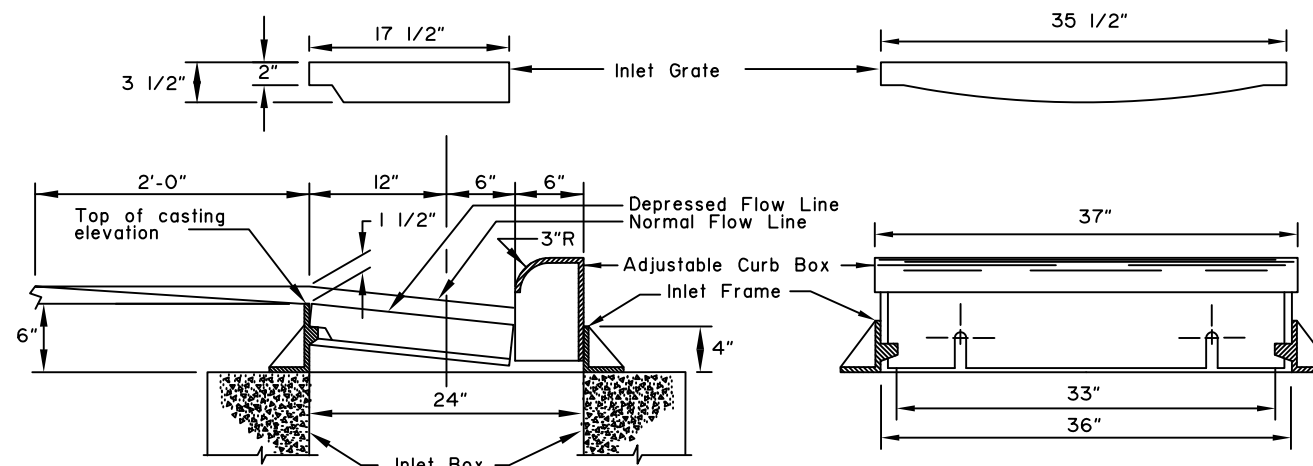
TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
**JNU GLACIER HWY/TWIN LAKES
 DR-LEMON RD CUVLERT
 ASSESSMENT**

TCP

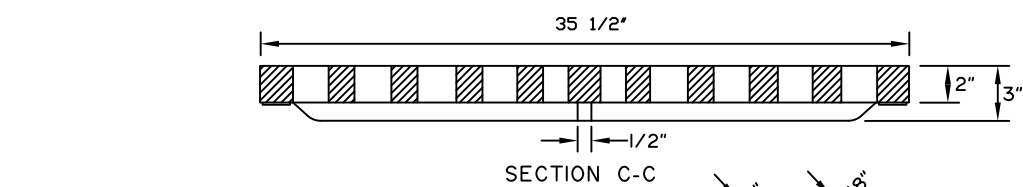


STANDARD CURB INLET INSTALLATION

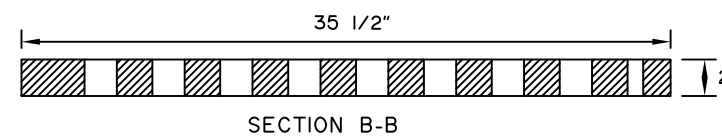
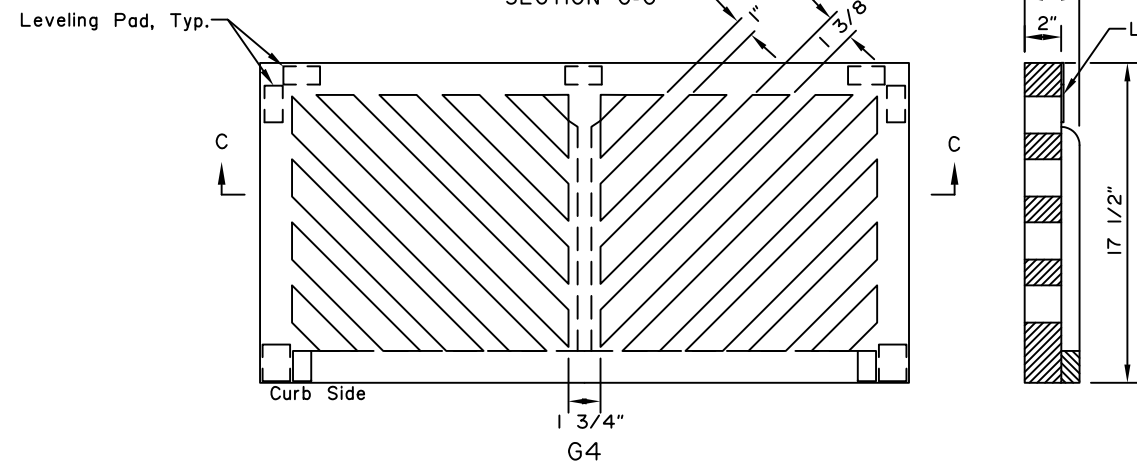


SECTION A

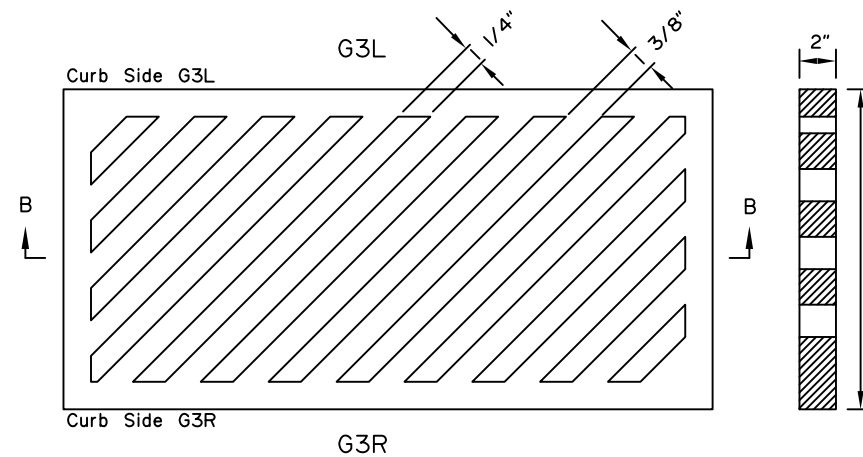
- GENERAL NOTES:**
1. Details shown are to indicate general design only. Dimensions and design may vary among the manufacturers.
 2. Minimum casting weight shall be 330 lbs for Curb Inlet Frame with Curb Box and 200 lbs. for Inlet Grate.
 3. The outside dimensions of Inlet Grate shall be 35 1/2" x 17 1/2" and all grates shall be interchangeable.
 4. Minimum drainage area of Inlet Grate shall be 255 square inches.
 5. Inlet Grate type G-3R or G-3L shall be used in all cases except where drainage is from both directions, in which case type G-4 shall be used.



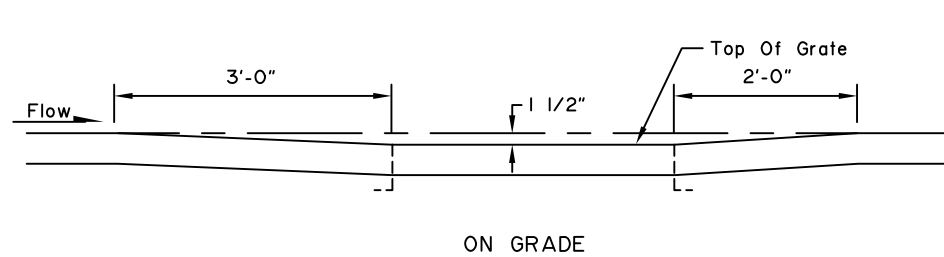
SECTION C-C



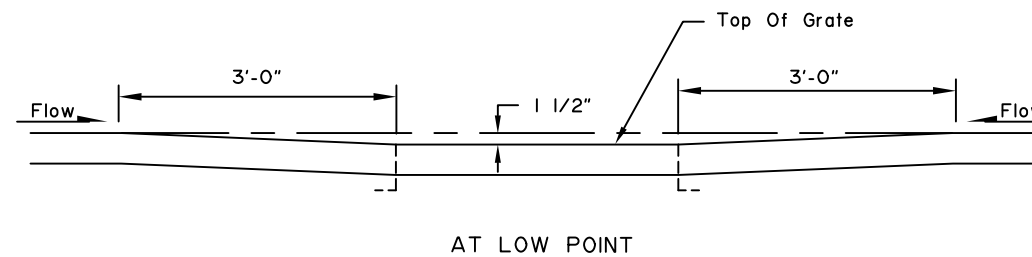
SECTION B-B



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE *Randall E. Johnston* DATE 05/02/2022



ON GRADE



AT LOW POINT

DEPRESSION IN FLOW LINE AT INLET CONSTRUCTION DETAILS

State of Alaska DOT&PF
 ALASKA STANDARD PLAN
**CURB INLET BOX,
 FRAME & GRATE**

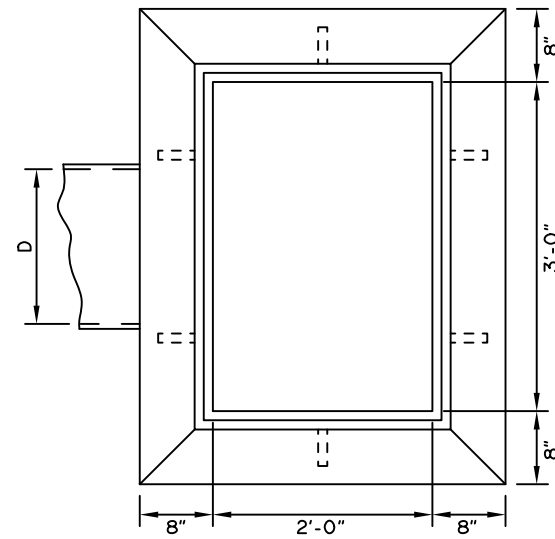
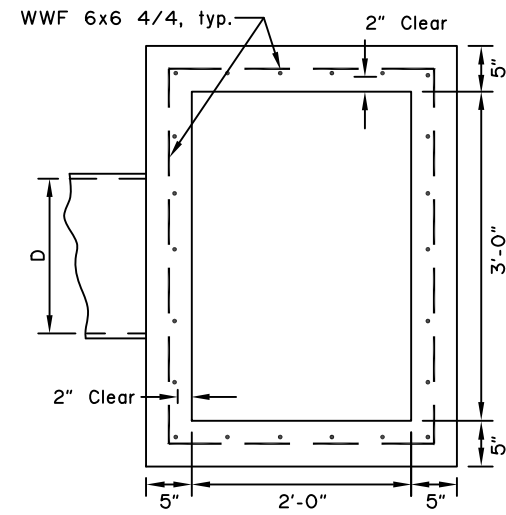
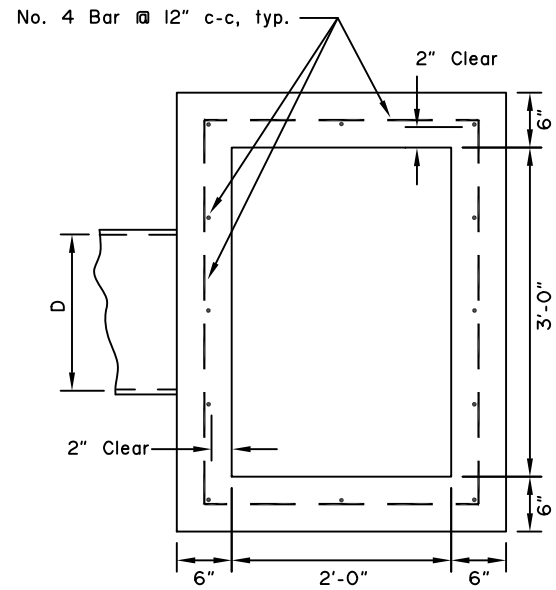
Adopted as an Alaska Standard Plan by: *Kenneth J. Fisher*
 Kenneth J. Fisher, P.E.
 Chief Engineer

Adoption Date: 02/08/2019

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

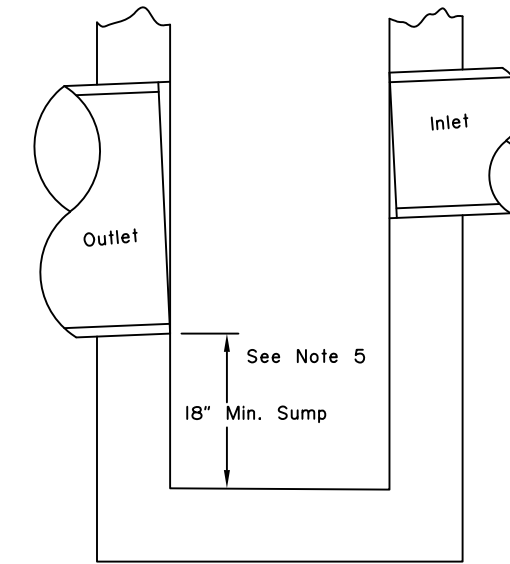
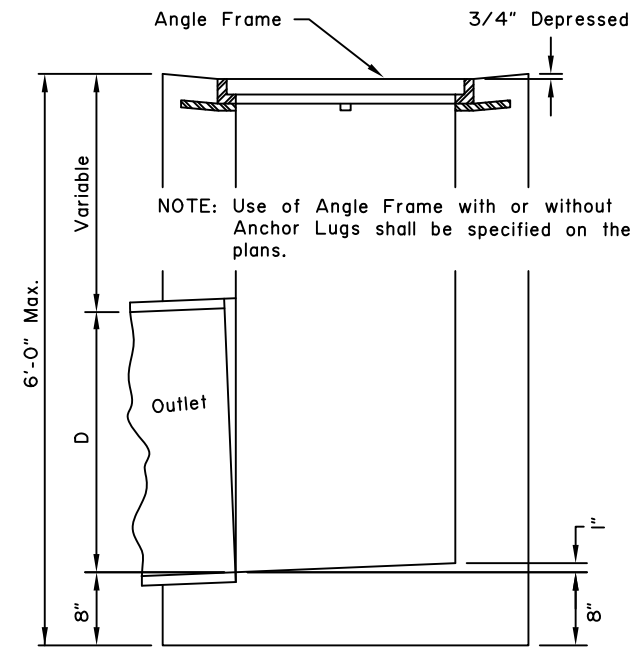
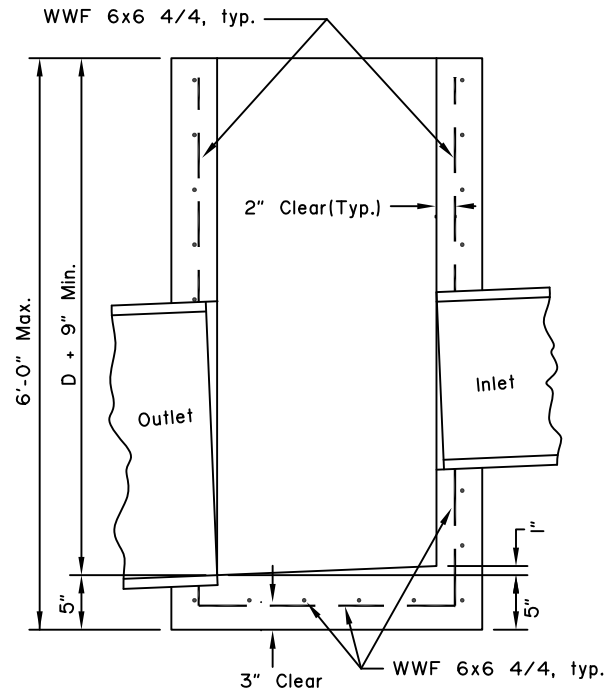
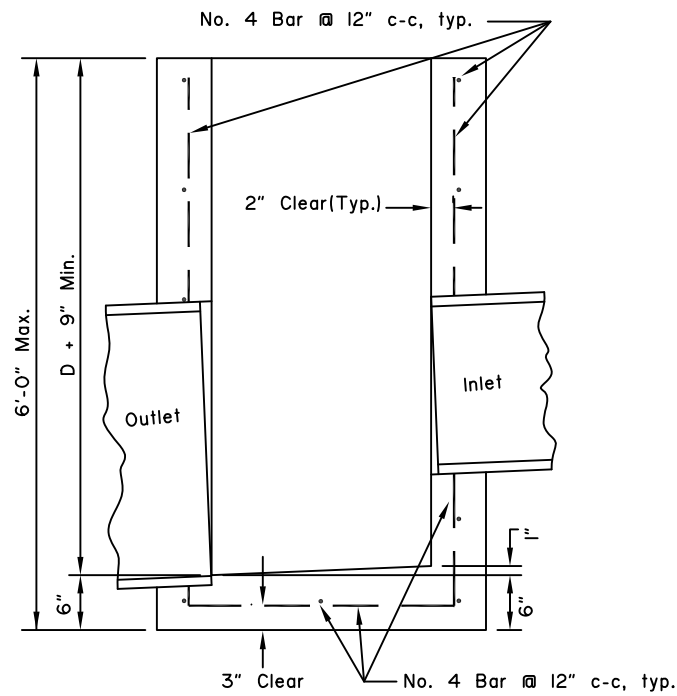
NOT TO SCALE

D-23.01



GENERAL NOTES:

1. Install inlet boxes parallel to the curb line.
2. The plans will indicate which inlet boxes require a sump.
3. Shape floors to drain.
4. Use Grade 40 minimum reinforcing steel.
5. The plans will indicate which inlet boxes require sumps.



SUMP DETAIL

REINFORCED
CAST IN PLACE

PRECAST

FIELD INLET BOX
CAST* IN PLACE

TYPE "A" CONCRETE INLET BOXES

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

PE *Randall E. Johnston* DATE 05/02/2022

* May be Precast or Reinforced Cast-In-Place Box.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

TYPE "A"
INLET BOX

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

Adoption Date: 02/08/2019

Last Code and Stds. Review By: Date:

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

NOT TO SCALE