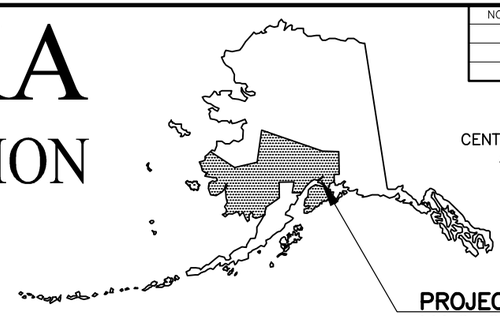
DESIGNED BY	---
CHECKED BY	---
DRAFTED BY	---
SCALE	N/A
DATE	6/24/2025
TIME	3:52 PM

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130		2025	A1	A3
ROUTE ID	1000000X000	MILEPOINT	46.03-57.02		
LATITUDE	60.513366	LONGITUDE	-150.899592		



CENTRAL REGION
ALASKA

PROJECT LOCATION
M&O STATION: SOLDOTNA

PROPOSED HIGHWAY PROJECT

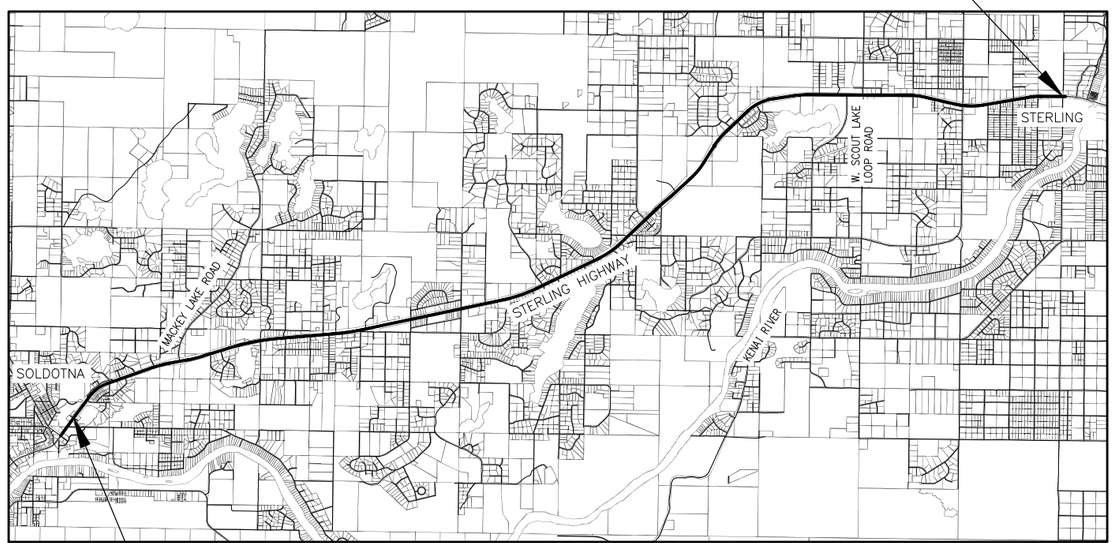
STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5-94 PROJECT NO. 0A33026/CFHWY00130

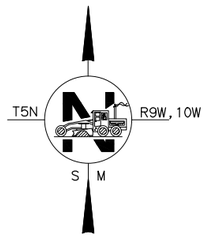
GRADING, DRAINAGE, PAVING, PATHWAYS, STRIPING

PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
STERLING HIGHWAY MP 82.5-94	80-131 FT	11.5 MILES

DESIGN DESIGNATIONS	
	STERLING HIGHWAY
FUNCTIONAL CLASS	INTERSTATE (RURAL ARTERIAL)
AADT (EXISTING YEAR)	14,114
AADT (DESIGN YEAR)	17,222
DESIGN SPEED (V) (MPH)	60, 45, 35
DHV (EXISTING YEAR)	11.9
DHV (DESIGN YEAR)	11.9
T-PERCENT COMMERCIAL TRUCKS (%)	8.21
D-DIRECTIONAL DISTRIBUTION (%)	50

END PROJECT
STA. 596+75





BEGIN PROJECT
STA. 20+95

FOR REVIEW
JUNE 2025

PLANS DEVELOPED BY: DOWL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
4111 AVIATION AVENUE, ANCHORAGE, AK 99502
(907)269-0590

APPROVED:

REGIONAL PRECONSTRUCTION ENGINEER DATE

CONCUR:

REGIONAL CONSTRUCTION ENGINEER DATE

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130_A01NA02_TTL.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	A2	A3

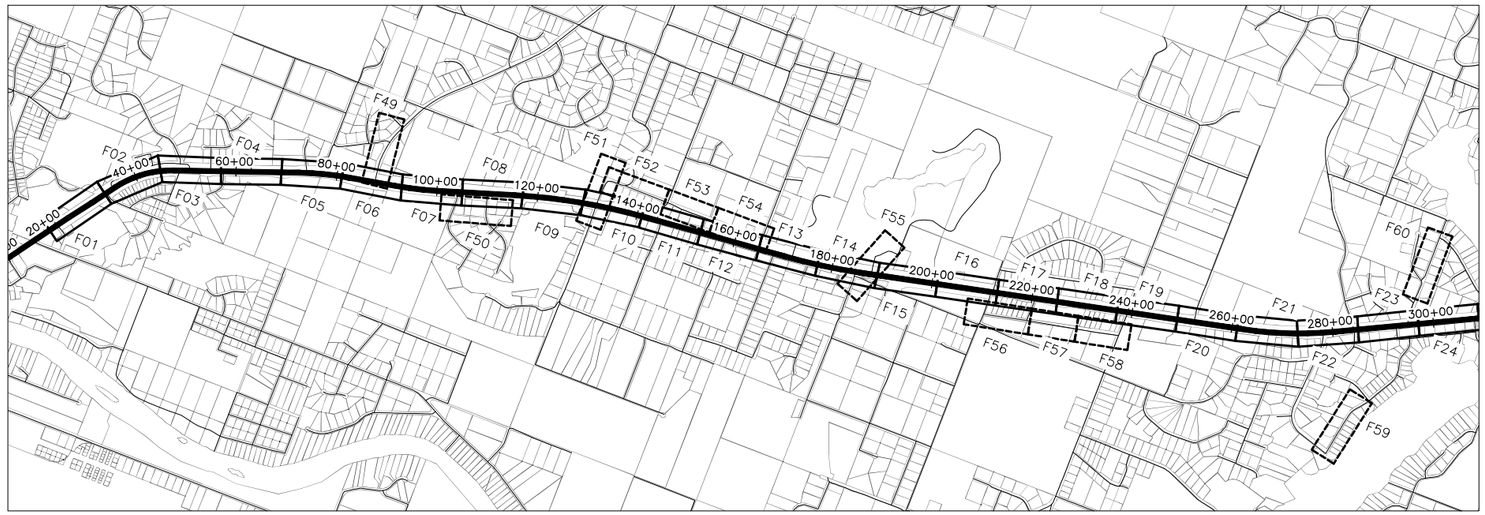
DESIGNED BY
CHECKED BY
DRAFTED BY

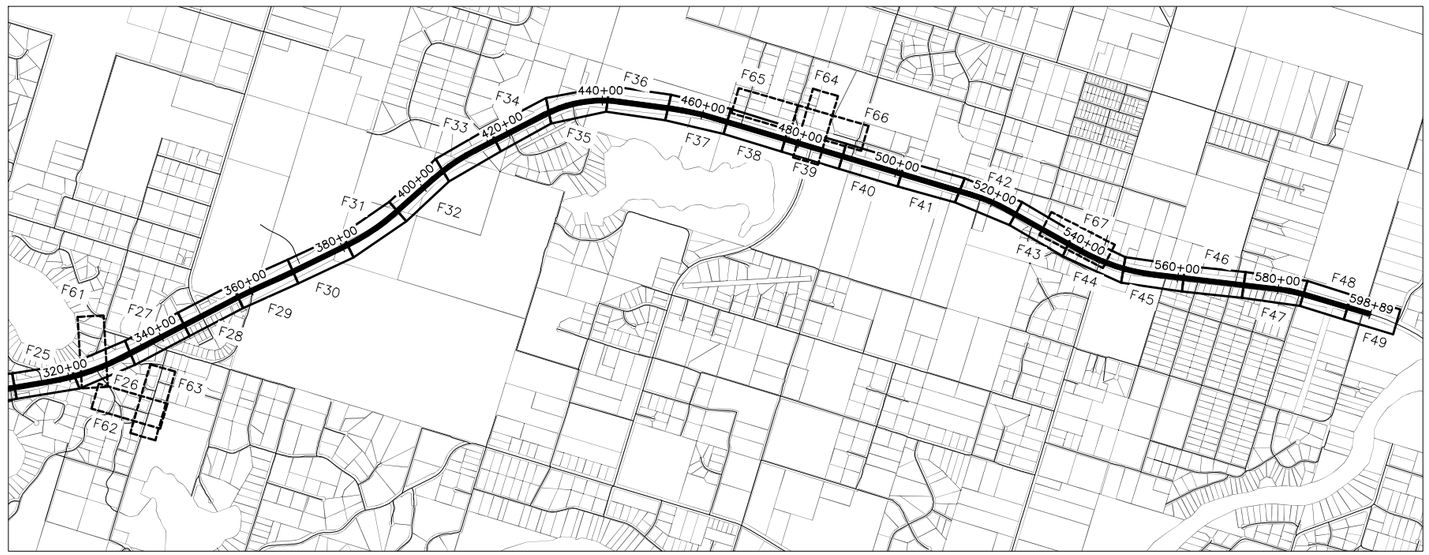
SCALE

DATE TIME
6/26/2025 9:44 AM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130_A01NA02_TTL.DWG

SHEET LAYOUT:





GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY, TEMPORARY CONSTRUCTION EASEMENTS, AND TEMPORARY CONSTRUCTION PERMITS. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
2. THE RIGHT-OF-WAY LINES SHOWN WERE CREATED FOR THIS PROJECT BY DOWL AND ARE BASED ON RECORDED DOCUMENTS AND/OR PLATTED SUBDIVISIONS, AND SURVEYED MONUMENTS. THE RIGHT-OF-WAY LINES WERE INSERTED USING A COMMON COORDINATE SYSTEM.
3. THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM AS-BUILTS AND HAS BEEN PARTIALLY FIELD VERIFIED. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST INSTALLATIONS AS DIRECTED BY THE ENGINEER.
4. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
5. PLACE 4" TOPSOIL AND SEED ON ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
6. ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.

   IF ANY PAVEMENT PENETRATION REQUIRES 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 THE REMOVED ASPHALT WITH NEW HOT MIX ASPHALT AND THOROUGHLY COMPACT. SEAL JOINTS, AT LEAST 12 INCHES WIDE CENTERED ON JOINT, USING ASPHALT SYSTEMS GSB-88, OR APPROVED EQUAL, WHILE THE HOT MIX ASPHALT IS CLEAN, FREE OF MOISTURE AND PRIOR TO STRIPING.

   THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.
7. CONSTRUCT CURB RAMPS TO AVOID IMPACTING SIGNAL POLE FOUNDATIONS. DO NOT COVER SIGNAL POLE FOUNDATION BOLTS AND BASE PLATES WITH TOPSOIL.
8. FOR PARALLEL GUARDRAIL TERMINALS, USE AN END OFFSET OF 2 FEET.
9. PLACE CURB AND GUTTER PRIOR TO FINAL LIFT OF ASPHALT.

ALIGNMENT ABBREVIATIONS

ALIGNMENT NAME	ABBREVIATIONS
STERLING HIGHWAY	"S"
ON PAR TO FAIRWAY CONNECTION	"OPF"
BOUNDARY ST	"B"
MACKEY LAKE RD	"ML"
KEN MAY AVE	"KM"
ISBELL/SOLID ROCK RD	"SR"
BERGSRUD BLVD	"BB"
MURRAY LN TO LAKESHORE DR	"MLS"
WHISPER LAKE ST	"WL"
BEAU CIR	"BC"
ST THERESA CONNECTION	"STC"
STEADMAN ST	"SS"
LOIS ST	"L"
SELF ST CONNECTION	"SLC"
STERLING ELEM FRONTAGE	"SEF"

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

B-04.10, B-05.10, B-06.10, B-07.10, B-08.00,
C-04.12, C-05.20, C-06.00,
D-01.02, D-04.22, D-06.10, D-20.05, D-22.01, D-23.01, D-24.00,
D-25.00, D-26.04, D-30.11, D-31.01, D-43.12, D-44.12, D-45.12,
E-09.00,
F-01.04, F-03.02, F-04.02, F-05.12,
G-00.05, G-04.00, G-05.11S, G-05.11W, G-09.05S, G-10.21, G-11.01,
G-14.01, G-16.00, G-20.12, G-26.00, G-27.00, G-29.01, G-32.03,
G-33.00, G-47.00,
I-21.12, I-22.11, I-30.10,
L-24.10, L-25.01, L-26.10, L-30.11,
M-13.01, M-16.01, M-20.15, M-23.13, M-24.01, M25.00,
S-00.12, S-05.02, S-23.00, S-30.05, S-31.02, S-32.02, S-52.01,
T-05.10, T-06.00, T-20.04, T-21.04, T-22.04, T-23.01, T-25.10,
T-30.12, T-52.22, T-53.01, T-54.11, T-55.11, T-56.12, T-57.12,
U-03.01

THE FOLLOWING CENTRAL REGION STANDARD DETAILS APPLY TO THIS PROJECT:

CR-G-28.00, CR-T-01.20, CR-T-04.10

IN THE EVENT OF CONFLICT, CENTRAL REGION STANDARD DETAILS SUPERSEDE ALASKA STANDARD PLANS, STANDARD MODIFICATIONS, AND STANDARD SPECIFICATIONS. PLANS AND SPECIAL PROVISIONS SUPERSEDE CENTRAL REGION STANDARD DETAILS.

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, GENERAL NOTES
A3	GENERAL NOTES, LEGEND
B1-B7	TYPICAL SECTIONS
C1-C2	QUANTITY SUMMARY TABLES
F01-F67	PLAN AND PROFILE
HL1-HL36	LIGHTING DESIGN
K1-K26	LIGHTING AND ELECTRICAL DETAILS

STATE OF ALASKA DOT&PF
LOCAL REVIEW
PROJECT ENGINEER
PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

SHEET LAYOUT, INDEX

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	A3	A3

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE 1" = 1'

DATE 6/24/2025 TIME 10:26 AM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130_A03_LGND.DWG

ROADWAY

	EXISTING	PROPOSED
EDGE OF PAVEMENT		
LIMIT OF CUT SLOPE & FILL SLOPE		CUT / FILL
GRAVEL EDGE		
SIDEWALK AND PATH/TRAIL		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
PARALLEL CURB RAMP PERPENDICULAR CURB RAMP		
DIRECTIONAL CURB RAMP & MID–BLOCK CURB RAMP		
DETECTABLE WARNING TILE		
BRIDGE		
TUNNEL		
GUARDRAIL		
END & PARALLEL END SECTIONS		
ROADWAY OBLITERATION		
FENCE	— X — X —	— X — X —
STONE FENCE		
NOISE BARRIER	====X====X	====X====X
RETAINING WALL		
HEADWALL & WINGWALL		
BOTTOM OF DITCH		
SPECIAL DITCH		
FLAT BOTTOM DITCH		
BERM		
RIPRAP		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX	MB	MB
POST, BOLLARD		

UTILITIES

	EXISTING	PROPOSED
STORM DRAIN	SD	
STORM DRAIN MANHOLE, CLEANOUT	SD CO	SD CO
CURB INLET CATCH BASIN FIELD INLET CATCH BASIN	FI	FI
PIPE CULVERT WITH END SECTION		
SANITARY SEWER	SS	SS
SANITARY SEWER MANHOLE, CLEANOUT	SS CO	SS CO
SEPTIC VENT, SEWER SERVICE CONNECTION	S	
WATER	W	W
FIRE HYDRANT, VALVE OR RISER		
WELL, WATER SERVICE CONNECTION	W	
NATURAL GAS	G G	
OIL OR GASOLINE PIPELINE	OIL	
TANKS (ABOVE GROUND, UNDERGROUND)	U	
ELECTRIC	OE (OVERHEAD) UE (UNDERGROUND) OE|OT (OVERHEAD)	
UTILITY POLE, POLE WITH LUMINAIRE		
GUY POLE, GUY WIRE ANCHOR	GP	
TRANSMISSION TOWER (WOOD, STEEL)	W S	
ELECTRIC PEDESTAL, TRANSFORMER	E	E
ELECTRIC MANHOLE, METER	E	
ELECTRIC OUTLET, LANDSCAPE LIGHT		
TELEPHONE	OT (OVERHEAD) UT (UNDERGROUND) UT|UTV (UNDERGROUND)	
TELEPHONE MANHOLE, PEDESTAL	T	
FIBER OPTIC	OFO (OVERHEAD) FO (UNDERGROUND)	
FIBER OPTIC MANHOLE	FO	
CABLE TV	OTV (OVERHEAD) UTV (UNDERGROUND)	
CABLE TV PEDESTAL, SATELLITE DISH	V	
UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)		
VENT		
JUNCTION BOX	J	

TOPOGRAPHY

	EXISTING
LAKE OR POND, WETLANDS	LAKE/POND
TREE (CONIFER/DECIDUOUS) TREELINE (EDGE OF VEGETATION)	
PLANTER	P
BUILDING OR FOUNDATION	

	EXISTING	PROPOSED
CONTOUR, MAJOR OR MINOR	520	520
DRAINAGE FLOW		
CREEK (CENTERLINE)		
RIVER (EDGE OF WATER)		

TRAFFIC

	EXISTING	PROPOSED
LOAD CENTER		
STATE TRAFFIC, MOA TRAFFIC, & BEACON CONTROLLER ARROW INDICATES DOOR LOCATION		
TYPE 1A, II, III, IV JUNCTION BOX		## ## ## ##
FIBER OPTIC VAULT	F/O	F/O ##
ELECTROLIER		
HIGHTOWER		HT#
SIGNAL POLE WITH MASTARM		14
PEDESTRIAN PUSH BUTTON & SIGNAL		
VEHICULAR SIGNAL		
VEHICULAR SIGNAL LEFT & RIGHT		
OPTICAL, CAMERA, RADAR, AND GPS DETECTOR		CAM RAD GPS
LOOP DETECTOR		###
COMMUNICATION ANTENNA		
MASTARM BEACON		
RURAL & SCHOOL ZONE BEACON		
LOOP DETECTOR CONDUIT		
SIGNAL CONDUIT	TR	TR
LIGHTING CONDUIT	LTG	LTG
SIGNAL & LIGHTING CONDUIT	T/L	T/L
CONDUIT BORING		
CONDUIT SIZE IN INCHES	2"-3C4	2" 1–3C4 CKT BA12 CKT BA13
INTERCONNECT	I/C	I/C
SIGN POST		##

PAVEMENT MARKINGS

	PROPOSED
TRAFFIC PROJECT CENTERLINE	
8" & 4" WHITE SOLID STRIPE	8"W 4"W
4" WHITE SKIP STRIPE 10' STRIPES AND 30' SPACES	4"W SKIP
8" WHITE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP 1' STRIPES AND 3' SPACES	8"W GUIDE SKIP
8" & 4" YELLOW SOLID STRIPE	8"Y 4"Y
4" YELLOW SKIP STRIPE 10' STRIPES AND 30' SPACES	4"Y SKIP
STRIPING CHANGE STATION INTERVAL	+20
2' CROSSWALK OR STOPBAR	24"W (TYP)
LONGITUDINAL CROSSWALK WITH GAPS 2' WIDE RUNGS WITH 2' SPACES ALIGNED TO AVOID TIRE PATHS	10' 3'
TYPICAL PAINTED MEDIAN	12' (2)–4"Y 3" APART; VARIES; 18"Y @ 45°

RIGHT–OF–WAY

	RECOVERED	SET THIS PROJECT
FEDERAL GOV'T SURVEY MONUMENT		
GOV'T CONTROL STATION		
PRIMARY MONUMENT (BRASS/AL CAP)		
MISC SECONDARY CORNER		
PRIMARY CENTERLINE MONUMENT		
SECONDARY CENTERLINE MONUMENT		
RANDOM CONTROL MONUMENT	RCM	
PRIMARY GPS CONTROL POINT	GPS	
HORIZONTAL CONTROL POINT	CP	
SECONDARY CONTROL POINT	SCP	
VERTICAL BENCHMARK	BM	
TEMPORARY BENCHMARK	TBM	
TOWNSHIP AND RANGE LINES	T13N / T12N; R2W / R3W	
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
CORPORATE or CITY LIMITS		
EXISTING RIGHT–OF–WAY		
RIGHT–OF–WAY OR EASEMENT REQUIRED		
PROJECT RIGHT–OF–WAY LINE		
EXISTING RIGHT–OF–WAY EASEMENT		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
EXISTING UTILITY EASEMENT		
PROPOSED UTILITY EASEMENT		
EXISTING CENTERLINE		
RAILROAD CENTERLINE		
TEMPORARY CONSTRUCTION EASEMENT		
TEMPORARY CONSTRUCTION PERMIT		

STATE OF ALASKA
REGISTERED PROFESSIONAL ENGINEER
PROJECT ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562–2000
#AECL848–AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

LEGEND

NO.	DATE	REVISION

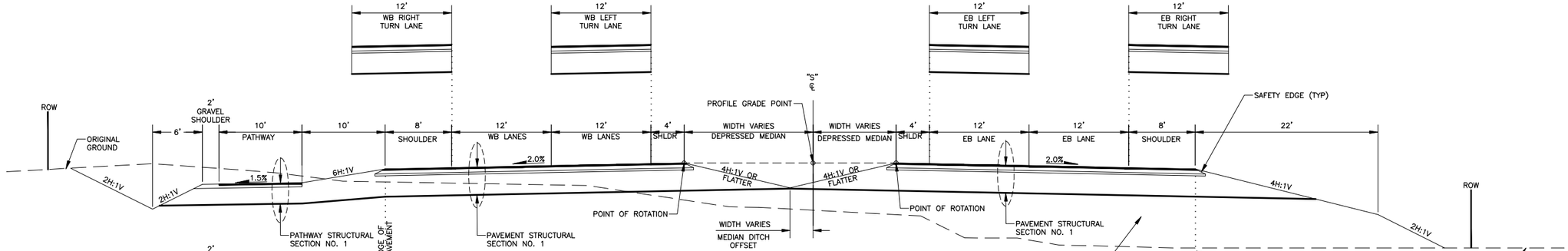
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	B1	B7

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE

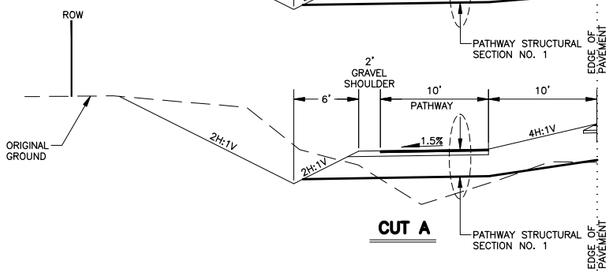
DATE 6/23/2025 TIME 3:46 PM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130-B01_TYP.DWG

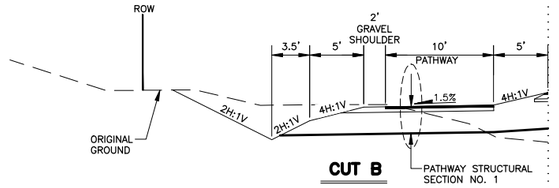


STERLING HIGHWAY
FOUR-LANE DIVIDED

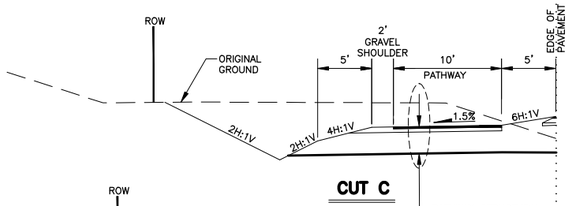
"S" STA. 74+50 TO "S" STA. 89+82
"S" STA. 91+22 TO "S" STA. 124+79
"S" STA. 177+60 TO "S" STA. 525+09



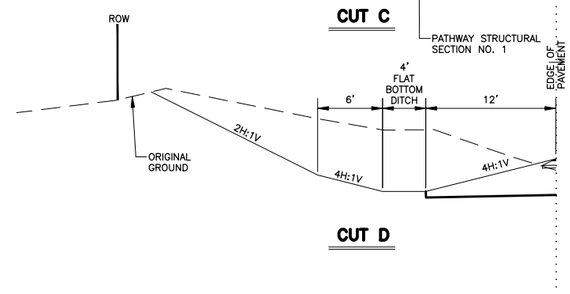
CUT A



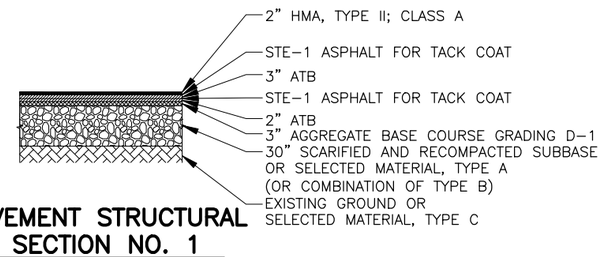
CUT B



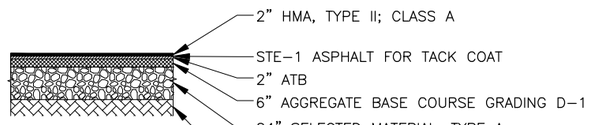
CUT C



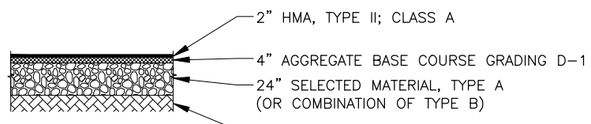
CUT D



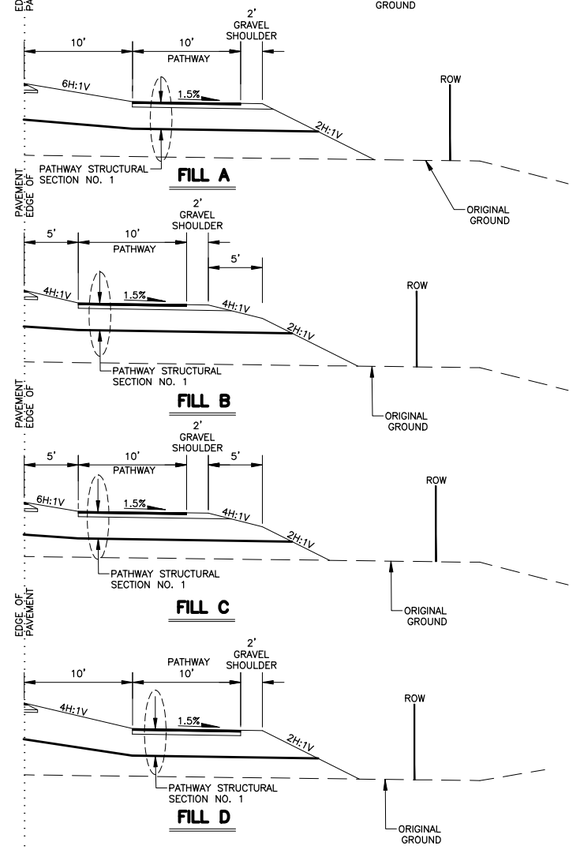
PAVEMENT STRUCTURAL SECTION NO. 1



PAVEMENT STRUCTURAL SECTION NO. 2



PATHWAY STRUCTURAL SECTION NO. 1



FILL A

FILL B

FILL C

FILL D

NOTES:

1. SEE SHEETS B5-B7 FOR CUT/FILL TYPICAL, TURN LANE, AND MEDIAN OFFSET LOCATIONS.

2, CUT OR FILL TYPICALS CAN BE ON EITHER SIDE OF THE SECTION.

3. TOP SOIL AND SEED ALL SLOPES, TYPICAL.

STATE OF ALASKA
DEPT OF TRANSPORTATION
LOCAL REVIEW
PROJECT MANAGER
PROJECT ENGINEER

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

TYPICAL SECTIONS

NO.	DATE	REVISION

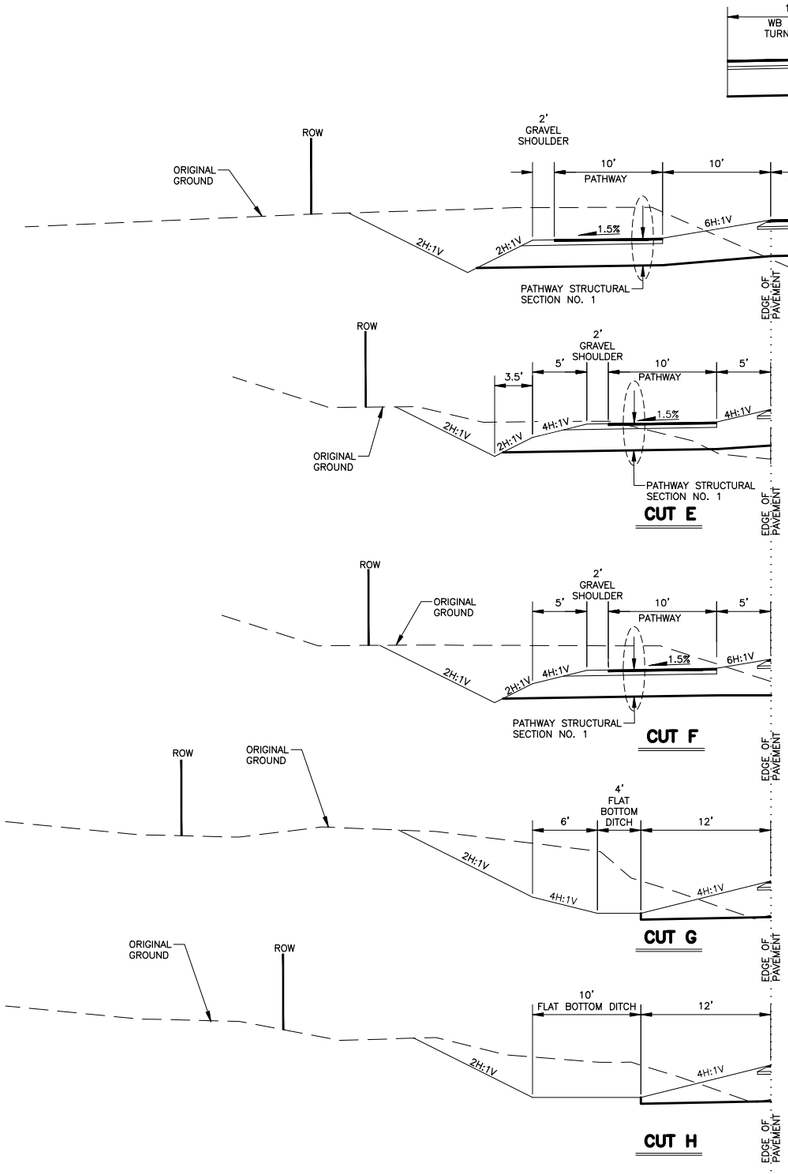
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	B2	B7

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE

DATE 6/23/2025 TIME 3:46 PM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130-B01_TYP.DWG



STERLING HIGHWAY FIVE-LANE

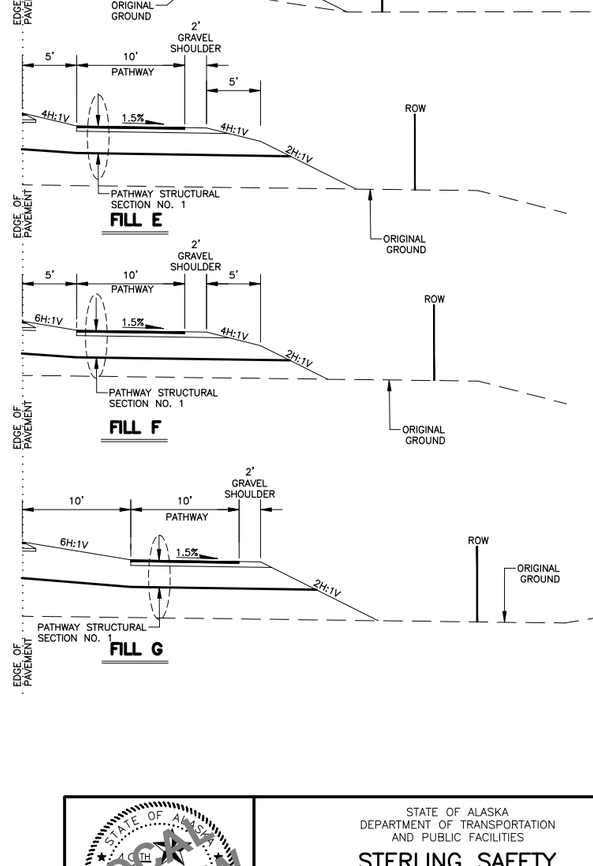
"S" STA. 34+75 TO "S" STA. 74+50
"S" STA. 124+79 TO "S" STA. 177+60
"S" STA. 525+09 TO "S" STA. 580+91

CUT E

CUT F

CUT G

CUT H



FILL E

FILL F

FILL G

NOTES:

1. SEE SHEETS B5–B7 FOR CUT/FILL TYPICAL, TURN LANE, AND MEDIAN OFFSET LOCATIONS.

2, CUT OR FILL TYPICALS CAN BE ON EITHER SIDE OF THE SECTION.

3. TOP SOIL AND SEED ALL SLOPES, TYPICAL.

STATE OF ALASKA
FOR REVIEW
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

TYPICAL SECTIONS

NO.	DATE	REVISION

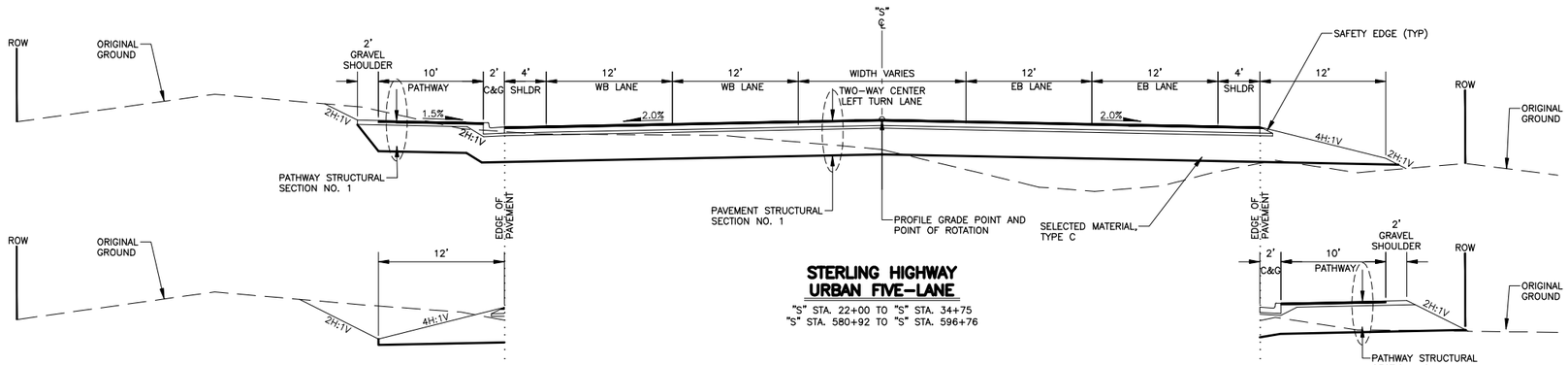
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	B3	B7

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE

DATE TIME
6/23/2025 3:46 PM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130-B01_TYP.DWG



CUT I

"S" STA. 22+00 TO "S" STA. 33+75 RT

STERLING HIGHWAY
URBAN FIVE-LANE

"S" STA. 22+00 TO "S" STA. 34+75
"S" STA. 580+92 TO "S" STA. 596+76

FILL H

"S" STA. 580+92 TO "S" STA. 596+76 RT

NOTES:

1. SEE SHEETS B5–B7 FOR CUT/FILL TYPICAL, TURN LANE, AND MEDIAN OFFSET LOCATIONS.

2. CUT OR FILL TYPICALS CAN BE ON EITHER SIDE OF THE SECTION.

3. TOP SOIL AND SEED ALL SLOPES, TYPICAL.

STATE OF ALASKA
PROJECT ENGINEER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

TYPICAL SECTIONS

NO.	DATE	REVISION

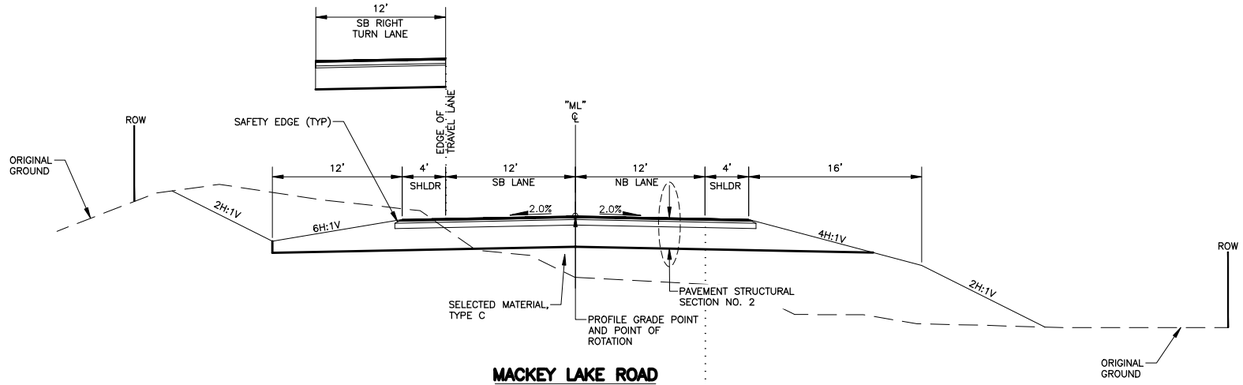
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	B4	B7

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE

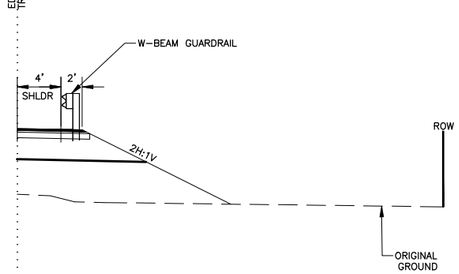
DATE TIME
6/23/2025 3:46 PM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130-B01_TYP.DWG



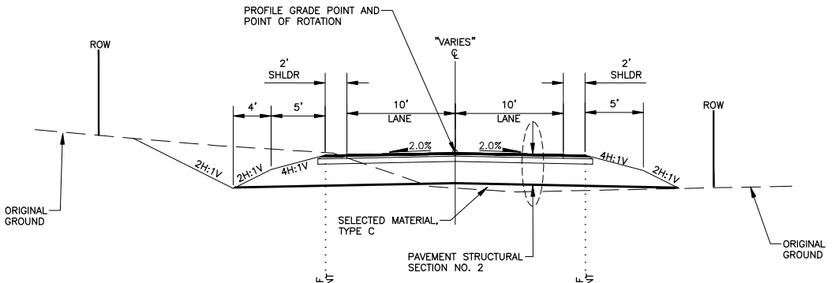
MACKEY LAKE ROAD

"ML" STA. 11+22.50 TO "ML" STA. 17+78.11



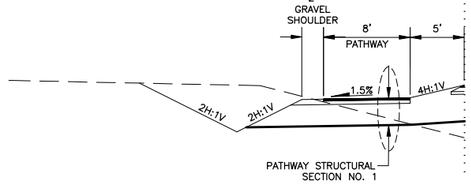
FILL I SHOULDER WITH GUARDRAIL

"S" STA. 11+57.55 TO "S" STA. 14+06.34 RT



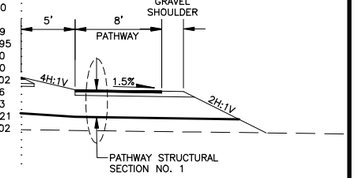
LOCAL ROAD

"ML" STA 11+22.50 TO "ML" STA 17+78.11
"OPF" STA 10+44.54 TO "OPF" STA 16+96.95
"B" STA 3+09.98 TO "B" STA 8+36
"KM" STA 10+00.00 TO "KM" STA 42+92.30
"SR" STA 4+06.02 TO "SR" STA 8+82.33
"BB" STA 10+59.58 TO "BB" STA 37+45.59
"MLS" STA 10+64.89 TO "MLS" STA 15+30.95
"WL" STA 10+93.42 TO "WL" STA 20+13.20
"BC" STA 11+50.00 TO "BC" STA 16+70.00
"STC" STA 10+59.64 TO "STC" STA 16+60.02
"SS" STA 10+50.13 TO "SS" STA 13+74.86
"WSL" STA 3+74.35 TO "WSL" STA 6+50.03
"SLC" STA 10+00.00 TO "SLC" STA 34+12.21
"SEF" STA 10+80.00 TO "SEF" STA 22+12.02



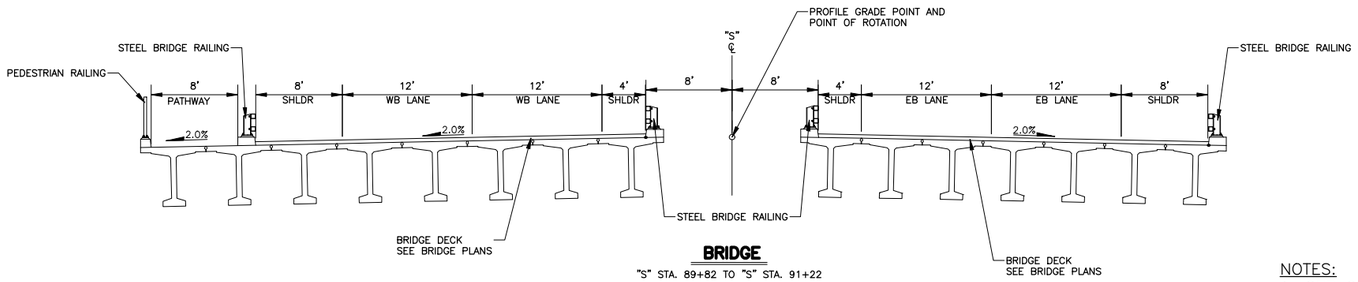
CUT J

"B" STA. 5+75 TO "B" STA. 8+27.95 LT
"KM" STA. 20+00 TO "KM" STA. 23+25 LT
"KM" STA. 25+75 TO "KM" STA. 27+75 LT
"KM" STA. 30+00 TO "KM" STA. 31+00 LT
"KM" STA. 31+50 TO "KM" STA. 31+75 LT
"KM" STA. 34+25 TO "KM" STA. 35+25 LT
"KM" STA. 38+75 TO "KM" STA. 41+00 LT



FILL J

"B" STA. 3+09.98 TO "B" STA. 5+75 LT
"KM" STA. 10+00 TO "KM" STA. 20+00 LT
"KM" STA. 23+25 TO "KM" STA. 25+75 LT
"KM" STA. 27+75 TO "KM" STA. 30+00 LT
"KM" STA. 31+00 TO "KM" STA. 31+50 LT
"KM" STA. 31+75 TO "KM" STA. 34+25 LT
"KM" STA. 35+25 TO "KM" STA. 38+75 LT
"KM" STA. 41+00 TO "KM" STA. 42+92.30 LT



BRIDGE

"S" STA. 89+82 TO "S" STA. 91+22

NOTES:

1. SEE SHEETS B5–B7 FOR CUT/FILL TYPICAL, TURN LANE, AND MEDIAN OFFSET LOCATIONS.

2, CUT OR FILL TYPICALS CAN BE ON EITHER SIDE OF THE SECTION.

3. TOP SOIL AND SEED ALL SLOPES, TYPICAL.

STATE OF ALASKA
PROFESSIONAL ENGINEER
FOR PROJECT INFORMATION ONLY
NOT FOR CONSTRUCTION
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562–2000
#AECL848–AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

TYPICAL SECTIONS

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE

DATE 6/23/2025 TIME 3:46 PM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130-B01_TYP.DWG

TYPICAL EXCEPTION TABLE – FOUR LANE

LT. DETAIL	STATION FROM	STATION TO	REMARKS	RT. DETAIL	STATION FROM	STATION TO	REMARKS
CUT C	STA 74+50	STA 81+00		CUT D	STA 74+50	STA 82+50	
FILL C	STA 81+00	STA 87+20		CUT D	STA 92+25	STA 109+72	
FILL C	STA 87+80	STA 89+82		CUT D	STA 110+75	STA 111+00	
FILL C	STA 91+22	STA 93+50		CUT D	STA 111+00	STA 124+79	
CUT C	STA 93+50	STA 105+75		CUT D	STA 177+60	STA 180+75	
FILL C	STA 105+75	STA 109+72		CUT D	STA 181+50	STA 184+82	
CUT C	STA 110+32	STA 111+00		CUT D	STA 185+42	STA 196+50	
CUT A	STA 111+00	STA 113+50		CUT D	STA 201+50	STA 204+75	
FILL D	STA 113+50	STA 118+00		CUT D	STA 205+50	STA 211+55	
CUT A	STA 118+00	STA 124+79		CUT D	STA 212+15	STA 214+00	
FILL A	STA 177+60	STA 179+00		CUT D	STA 219+00	STA 221+00	
CUT B	STA 195+00	STA 211+55		CUT D	STA 229+00	STA 234+00	
CUT C	STA 212+15	STA 218+00		CUT D	STA 245+25	STA 260+75	
FILL C	STA 218+00	STA 221+75		CUT D	STA 273+25	STA 283+87	
CUT C	STA 221+75	STA 238+83		CUT D	STA 300+75	STA 301+75	
CUT B	STA 239+43	STA 260+00		CUT D	STA 312+00	STA 315+00	
CUT C	STA 260+00	STA 267+00		CUT D	STA 317+25	STA 319+00	
FILL C	STA 267+00	STA 275+25		CUT D	STA 319+75	STA 325+20	
CUT C	STA 275+25	STA 283+87		CUT D	STA 333+00	STA 348+65	
CUT C	STA 284+47	STA 290+00		CUT D	STA 358+00	STA 359+25	
FILL C	STA 290+00	STA 292+00		CUT D	STA 360+75	STA 361+50	
CUT C	STA 292+00	STA 294+25		CUT D	STA 372+00	STA 383+75	
FILL C	STA 294+25	STA 295+40		CUT D	STA 386+25	STA 390+50	
FILL C	STA 296+00	STA 301+75		CUT D	STA 399+50	STA 403+00	
CUT C	STA 301+75	STA 302+75		CUT D	STA 404+00	STA 406+50	
FILL C	STA 302+75	STA 306+00		CUT D	STA 4119+00	STA 426+75	
CUT C	STA 306+00	STA 307+00		CUT D	STA 428+25	STA 431+00	
FILL C	STA 307+00	STA 325+48		CUT D	STA 434+30	STA 436+25	
FILL B	STA 326+08	STA 327+00		CUT D	STA 437+50	STA 439+50	
CUT B	STA 327+00	STA 347+75		CUT D	STA 440+00	STA 451+59	
FILL B	STA 347+75	STA 348+65		CUT D	STA 452+19	STA 453+00	
FILL C	STA 349+25	STA 349+50		CUT D	STA 455+75	STA 457+00	
CUT C	STA 349+50	STA 353+50		CUT D	STA 470+25	STA 481+75	
FILL C	STA 353+50	STA 361+25		CUT D	STA 491+23	STA 508+50	
CUT C	STA 361+25	STA 374+75					
FILL D	STA 374+75	STA 377+25					
FILL A	STA 377+25	STA 383+75					
FILL A	STA 387+25	STA 390+50					
FILL A	STA 394+50	STA 397+75					
FILL A	STA 402+00	STA 409+00					
CUT C	STA 409+00	STA 411+25					
FILL C	STA 411+25	STA 413+25					
CUT C	STA 413+25	STA 415+23					
CUT C	STA 415+83	STA 421+50					
FILL C	STA 421+50	STA 423+95					
CUT C	STA 423+95	STA 425+00					
FILL C	STA 425+00	STA 426+55					
FILL A	STA 426+55	STA 433+25					
FILL A	STA 434+30	STA 438+25					
FILL A	STA 447+50	STA 451+59					
FILL A	STA 452+19	STA 454+25					
FILL A	STA 455+00	STA 456+75					
FILL A	STA 457+25	STA 458+25					
CUT C	STA 463+10	STA 438+00					
FILL C	STA 438+00	STA 470+50					
CUT C	STA 470+50	STA 472+50					
FILL C	STA 472+50	STA 475+75					
CUT C	STA 475+75	STA 487+25					
FILL C	STA 487+25	STA 490+63					
FILL C	STA 491+23	STA 493+50					
CUT C	STA 493+50	STA 497+50					
FILL C	STA 497+23	STA 507+00					
FILL B	STA 507+00	STA 508+50					
CUT C	STA 508+50	STA 513+75					
FILL C	STA 513+75	STA 514+50					
FILL B	STA 514+50	STA 517+00					
FILL D	STA 517+60	STA 523+50					
CUT A	STA 523+50	STA 525+10					

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	B5	B7

TYPICAL EXCEPTION TABLE – FIVE LANE

LT. DETAIL	STATION FROM	STATION TO	REMARKS	RT. DETAIL	STATION FROM	STATION TO	REMARKS
FILL F	STA 34+75	STA 36+00		CUT G	STA 40+75	STA 53+50	
CUT F	STA 36+00	STA 50+00		CUT G	STA 55+75	STA 74+50	
CUT E	STA 50+00	STA 51+25		CUT G	STA 124+79	STA 130+98	
FILL E	STA 51+25	STA 56+25		CUT G	STA 132+19	STA 156+00	
CUT E	STA 56+25	STA 59+50		CUT G	STA 157+25	STA 166+75	
CUT F	STA 59+50	STA 74+50		CUT G	STA 168+00	STA 168+25	
CUT H	STA 132+19	STA 165+27		CUT G	STA 176+50	STA 177+60	
CUT F	STA 525+10	STA 528+50		CUT G	STA 545+50	STA 549+75	
FILL F	STA 528+50	STA 533+25		CUT G	STA 555+25	STA 560+25	
CUT F	STA 533+25	STA 580+92		CUT G	STA 568+00	STA 580+92	

STATE OF ALASKA
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

TYPICAL SECTION EXCEPTIONS TABLES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	B6	B7

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE

DATE TIME
6/23/2025 3:46 PM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130-B01_TYP.DWG

LEFT TURN LANE STATION RANGE

STATION FROM	STATION TO	OFFSET
22+27.00	24+27.00	LT
82+70.77	87+20.77	RT
87+82.54	92+32.54	LT
105+21.61	109+74.00	RT
111+32.00	114+90.44	LT
126+73.22	131+23.22	RT
180+31.65	184+81.00	RT
186+41.00	189+98.32	LT
207+05.17	211+56.00	RT
212+15.00	216+65.20	LT
234+20.00	238+81.00	RT
239+40.00	243+99.65	LT
277+48.00	281+73.00	LT
279+37.19	284+00.00	RT
284+28.00	288+97.73	LT
291+41.12	295+83.00	RT
307+49.00	312+35.00	LT
320+90.10	325+44.00	RT
326+11.00	330+65.49	LT
344+14.48	348+66.00	RT
349+29.00	353+83.78	LT
410+71.37	415+19.00	RT
415+86.00	420+41.47	LT
429+17.10	433+69.00	RT
434+37.00	438+77.06	LT
447+09.26	451+54.00	RT
452+23.00	456+74.17	LT
477+60.27	482+15.00	RT
482+84.00	487+35.18	LT
512+46.96	516+89.00	RT
517+64.00	522+15.88	LT

RIGHT TURN LANE STATION RANGE

STATION FROM	STATION TO	OFFSET
106+21.81	109+46.81	RT
155+51.89	157+51.89	RT
165+53.85	168+28.85	LT
180+57.05	184+17.05	RT
234+50.05	238+30.05	RT
282+37.34	283+62.34	RT
321+30.24	325+30.24	RT
477+93.83	481+93.83	RT

MEDIAN DITCH OFFSET

OFFSET	STATION
0.0 RT	STA 76+90
0.0 RT	STA 103+61
6.0 LT	STA 105+25
6.0 LT	STA 109+50
6.0 RT	STA 110+50
5.7 RT	STA 115+00
0.0 RT	STA 116+50
0.0 RT	STA 124+75
0.7 LT	STA 177+59
0.9 LT	STA 178+75
7.0 LT	STA 180+50
7.5 LT	STA 184+55
4.6 RT	STA 185+75
5.1 RT	STA 190+00
0.2 LT	STA 191+40
0.0 RT	STA 205+50
5.8 LT	STA 207+00
6.0 LT	STA 211+50
5.9 RT	STA 212+25
5.9 RT	STA 216+50
0.1 LT	STA 218+25
0.0 RT	STA 232+75
5.9 LT	STA 234+25
6.0 LT	STA 238+75
6.0 RT	STA 239+50
5.9 RT	STA 244+00
0.0 RT	STA 245+50
0.0 RT	STA 276+75
0.5 RT	STA 277+00
4.5 RT	STA 277+50
6.0 RT	STA 277+75
0.0 RT	STA 279+50
0.0 RT	STA 281+50
6.0 LT	STA 283+25
3.2 LT	STA 283+75
4.1 RT	STA 284+70
6.0 RT	STA 285+00
5.8 RT	STA 289+00
6.0 LT	STA 291+50
6.0 LT	STA 295+41
0.0 RT	STA 296+01
0.0 RT	STA 307+35
6.0 RT	STA 307+87
6.0 RT	STA 312+25

MEDIAN DITCH OFFSET

OFFSET	STATION
0.0 RT	STA 314+00
0.0 RT	STA 319+25
5.4 LT	STA 320+75
6.0 LT	STA 325+20
6.0 RT	STA 326+35
6.0 RT	STA 330+50
0.0 RT	STA 332+25
0.0 RT	STA 342+58
5.5 LT	STA 344+03
6.0 LT	STA 348+50
6.0 RT	STA 349+50
6.0 RT	STA 353+75
0.0 RT	STA 355+25
0.0 RT	STA 409+05
6.0 LT	STA 410+75
6.0 LT	STA 415+11
6.0 RT	STA 416+00
6.0 RT	STA 420+25
0.3 RT	STA 421+75
0.0 RT	STA 427+25
5.3 LT	STA 429+00
6.0 LT	STA 433+50
6.0 RT	STA 434+50
6.0 RT	STA 438+75
0.0 RT	STA 440+50
0.0 RT	STA 445+25
6.0 LT	STA 448+25
6.0 LT	STA 451+25
6.0 RT	STA 452+53
5.7 RT	STA 456+75
0.0 RT	STA 458+25
0.2 LT	STA 476+25
6.0 LT	STA 477+75
6.0 LT	STA 482+10
6.0 RT	STA 483+00
6.0 RT	STA 487+25
0.2 RT	STA 488+75
0.1 LT	STA 511+00
6.0 LT	STA 512+53
6.0 LT	STA 516+75
6.0 RT	STA 517+95
6.0 RT	STA 522+00
0.0 RT	STA 523+75
0.0 RT	STA 524+96

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

LOCAL REVIEW

PROJECT ENGINEER
DOT&PF
PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

TURN LANE AND MEDIAN DITCH TABLES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	B7	B7

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE

DATE 6/23/2025 TIME 3:46 PM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130-B01_TYP.DWG

LEFT MEDIAN OFFSET

STATION	OFFSET	REMARKS
76+31.00	0.0 RT	BEGIN MEDIAN
76+89.92	8.0 LT	END MEDIAN NOSE
87+18.62	8.0 LT	END MEDIAN
87+82.54	4.0 RT	BEGIN MEDIAN
92+32.51	4.0 RT	END LEFT TURN LANE
93+82.05	8.0 LT	END TAPER
98+01.51	8.0 LT	BEGIN TAPER
108+92.77	26.2 LT	END TAPER, BEGIN BULLET NOSE
109+67.50	6.0 LT	END BULLET NOSE, END MEDIAN
110+35.53	6.0 RT	BEGIN MEDIAN, BEGIN BULLET NOSE
111+10.17	14.2 LT	END BULLET NOSE, BEGIN TAPER
114+91.36	7.8 LT	END LEFT TURN LANE
116+41.35	17.3 LT	END LEFT TURN LANE TAPER
117+81.46	15.0 LT	END TAPER
124+63.37	15.0 LT	BEGIN MEDIAN NOSE
124+78.43	0.0 RT	END MEDIAN
177+59.35	0.0 RT	BEGIN MEDIAN
177+74.10	15.8 LT	BEGIN TAPER
184+07.94	26.3 LT	END TAPER, BEGIN BULLET NOSE
184+78.03	8.0 LT	END BULLET NOSE, END MEDIAN
185+45.48	5.1 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
186+18.05	14.2 LT	END BULLET NOSE, BEGIN TAPER
189+93.20	8.0 LT	END LEFT TURN LANE
191+43.35	17.5 LT	END LEFT TURN LANE TAPER
192+91.66	15.0 LT	END TAPER
204+05.28	15.0 LT	BEGIN TAPER
210+76.73	26.2 LT	END TAPER, BEGIN BULLET NOSE
211+51.29	6.1 LT	END BULLET NOSE, END MEDIAN
212+19.21	6.1 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
212+94.38	14.4 LT	END BULLET NOSE, BEGIN TAPER
216+65.09	8.2 LT	END LEFT TURN LANE
218+15.40	17.7 LT	END LEFT TURN LANE TAPER
219+75.29	15.0 LT	END TAPER
231+30.23	15.0 LT	BEGIN TAPER
238+01.98	26.2 LT	END TAPER, BEGIN BULLET NOSE
238+76.68	6.0 LT	END BULLET NOSE, END MEDIAN
239+44.68	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
240+19.39	14.2 LT	END BULLET NOSE, BEGIN TAPER
243+97.32	7.9 LT	END LEFT TURN LANE
245+47.49	17.4 LT	END LEFT TURN LANE TAPER
246+91.13	15.0 LT	END TAPER
269+92.30	15.0 LT	BEGIN TAPER
277+37.31	27.4 LT	END TAPER, BEGIN RCUT CURVE
277+69.06	15.5 LT	RCUT CURVE, BEGIN LEFT TURN LANE
281+69.98	15.5 LT	END LEFT TURN LANE
283+19.98	27.5 LT	END LEFT TURN LANE TAPER
283+37.63	27.5 LT	BEGIN BULLET NOSE
283+80.99	13.9 LT	END MEDIAN
284+53.41	1.2 LT	BEGIN MEDIAN
284+97.73	15.5 LT	END BULLET NOSE
288+94.01	15.5 LT	END LEFT TURN LANE
290+44.01	27.5 LT	END LEFT TURN LANE TAPER
295+53.52	27.5 LT	RCUT CURVE
295+83.87	27.2 LT	RCUT CURVE, BEGIN TAPER
301+93.92	17.0 LT	END TAPER
307+56.30	17.0 LT	RCUT CURVE
307+87.09	5.0 LT	RCUT CURVE, BEGIN LEFT TURN LANE
312+36.80	5.0 LT	END LEFT TURN LANE

LEFT MEDIAN OFFSET

STATION	OFFSET	REMARKS
313+86.80	17.0 LT	END LEFT TURN LANE TAPER
319+17.70	17.0 LT	BEGIN TAPER
324+69.41	26.2 LT	END TAPER, BEGIN BULLET NOSE
325+43.59	5.7 LT	END BULLET NOSE, END MEDIAN
326+11.73	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
326+85.22	14.2 LT	END BULLET NOSE, BEGIN TAPER
330+60.05	8.0 LT	END LEFT TURN LANE
332+10.62	17.5 LT	END LEFT TURN LANE TAPER
333+57.69	15.0 LT	END TAPER
341+15.19	15.0 LT	BEGIN TAPER
347+86.16	26.2 LT	END TAPER, BEGIN BULLET NOSE
348+60.80	6.0 LT	END BULLET NOSE, END MEDIAN
349+28.78	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
350+03.51	14.2 LT	END BULLET NOSE, BEGIN TAPER
353+74.75	8.0 LT	END LEFT TURN LANE
355+25.16	17.5 LT	END LEFT TURN LANE TAPER
407+72.51	15.0 LT	BEGIN TAPER
414+43.83	26.2 LT	END TAPER, BEGIN BULLET NOSE
415+18.52	6.0 LT	END BULLET NOSE, END MEDIAN
415+86.52	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
416+61.20	14.2 LT	END BULLET NOSE, BEGIN TAPER
420+32.32	8.0 LT	END LEFT TURN LANE
421+82.47	17.5 LT	END LEFT TURN LANE TAPER
423+32.51	15.0 LT	END TAPER
426+21.07	15.0 LT	BEGIN TAPER
432+92.36	26.2 LT	END TAPER, BEGIN BULLET NOSE
433+68.72	6.2 LT	END BULLET NOSE, END MEDIAN
434+36.72	5.8 RT	BEGIN MEDIAN, BEGIN BULLET NOSE
435+13.30	14.1 LT	END BULLET NOSE, BEGIN TAPER
438+76.80	8.1 LT	END LEFT TURN LANE
440+26.00	17.6 LT	END LEFT TURN LANE TAPER
441+81.07	15.0 LT	END TAPER
444+08.70	15.0 LT	BEGIN TAPER
450+79.15	26.2 LT	END TAPER, BEGIN BULLET NOSE
451+54.52	5.7 LT	END BULLET NOSE, END MEDIAN
452+22.92	5.7 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
452+96.90	14.2 LT	END BULLET NOSE, BEGIN TAPER
456+66.64	8.0 LT	END LEFT TURN LANE
458+16.36	17.5 LT	END LEFT TURN LANE TAPER
459+68.70	15.0 LT	END LEFT TURN LANE TAPER
474+69.22	15.0 LT	BEGIN TAPER
481+40.54	26.2 LT	END TAPER, BEGIN BULLET NOSE
482+15.22	6.0 LT	END BULLET NOSE, END MEDIAN
482+83.22	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
483+57.91	14.2 LT	END BULLET NOSE, BEGIN TAPER
487+29.04	8.0 LT	END LEFT TURN LANE
488+79.19	17.5 LT	END LEFT TURN LANE TAPER
490+29.22	15.0 LT	END TAPER
509+49.46	15.0 LT	BEGIN TAPER
516+18.84	26.2 LT	END TAPER, BEGIN BULLET NOSE
516+88.83	8.6 LT	END BULLET NOSE, END MEDIAN
517+65.20	5.1 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
518+39.63	14.2 LT	END BULLET NOSE, BEGIN TAPER
522+07.04	8.0 LT	END LEFT TURN LANE
523+56.66	17.6 LT	END LEFT TURN LANE TAPER
525+10.51	15.0 LT	END TAPER
525+25.51	0.0 RT	END MEDIAN

RIGHT MEDIAN OFFSET

STATION	OFFSET	REMARKS
76+31.00	0.0 RT	BEGIN MEDIAN
76+89.92	8.0 RT	BEGIN MEDIAN
81+20.48	8.0 RT	BEGIN LEFT TURN LANE TAPER
82+70.61	4.0 LT	BEGIN LEFT TURN LANE
87+18.62	4.0 LT	END MEDIAN
87+82.54	8.0 RT	BEGIN MEDIAN
98+01.51	8.0 RT	BEGIN TAPER
103+71.58	17.5 RT	BEGIN LEFT TURN LANE TAPER
105+21.72	8.0 RT	BEGIN LEFT TURN LANE
108+92.86	14.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
109+67.50	6.0 LT	END BULLET NOSE, END MEDIAN
110+35.53	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
111+10.25	26.2 RT	END BULLET NOSE, BEGIN TAPER
117+81.52	15.0 RT	END TAPER
124+63.37	15.0 RT	BEGIN MEDIAN NOSE
124+78.43	0.0 RT	END MEDIAN
177+59.35	0.0 RT	BEGIN MEDIAN
177+74.13	14.3 RT	BEGIN TAPER
178+81.52	15.8 RT	BEGIN LEFT TURN LANE TAPER
180+31.72	6.0 RT	BEGIN LEFT TURN LANE
184+05.03	11.4 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
184+78.03	8.0 LT	END BULLET NOSE, END MEDIAN
185+45.48	5.1 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
186+15.60	23.5 RT	END BULLET NOSE, BEGIN TAPER
192+89.23	15.0 RT	END TAPER
204+05.25	15.0 RT	BEGIN TAPER
205+55.10	17.5 RT	BEGIN LEFT TURN LANE TAPER
207+05.28	8.0 RT	BEGIN LEFT TURN LANE
210+76.47	14.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
211+51.29	6.0 LT	END BULLET NOSE, END MEDIAN
212+19.21	6.1 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
212+93.78	26.2 RT	END BULLET NOSE, BEGIN TAPER
219+65.29	15.0 RT	END TAPER
231+30.23	15.0 RT	BEGIN TAPER
232+78.24	17.5 RT	BEGIN LEFT TURN LANE TAPER
234+28.25	8.0 RT	BEGIN LEFT TURN LANE
238+01.98	14.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
238+76.68	6.0 LT	END BULLET NOSE, END MEDIAN
239+44.68	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
240+19.47	26.2 RT	END BULLET NOSE, BEGIN TAPER
246+93.46	15.0 RT	END TAPER
269+95.29	15.0 RT	BEGIN TAPER
277+25.70	27.2 RT	RCUT CURVE INTERSECTION
277+55.98	27.5 RT	RCUT CURVE INTERSECTION, END TAPER
277+87.57	27.5 RT	BEGIN LEFT TURN LANE TAPER
279+37.03	15.5 RT	BEGIN LEFT TURN LANE
283+36.79	15.5 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
283+81.11	1.2 RT	END BULLET NOSE, END MEDIAN
284+53.53	13.9 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
284+96.88	27.5 RT	END BULLET NOSE, BEGIN TAPER
289+90.80	27.5 RT	BEGIN LEFT TURN LANE TAPER
291+40.80	15.5 RT	BEGIN LEFT TURN LANE
295+40.41	15.5 RT	END LEFT TURN LANE
295+72.12	27.4 RT	RCUT CURVE, BEGIN TAPER
301+93.92	17.0 RT	END TAPER
316+12.00	17.0 RT	BEGIN TAPER

RIGHT MEDIAN OFFSET

STATION	OFFSET	REMARKS
319+40.44	17.4 RT	BEGIN LEFT TURN LANE TAPER
320+90.21	7.9 RT	BEGIN LEFT TURN LANE
324+68.18	14.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
325+43.59	5.7 LT	END BULLET NOSE, END MEDIAN
326+11.73	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
326+87.50	26.2 RT	END BULLET NOSE, BEGIN TAPER
333+58.17	15.0 RT	END TAPER
341+15.19	15.0 RT	BEGIN TAPER
342+64.88	17.5 RT	BEGIN LEFT TURN LANE TAPER
344+14.58	8.0 RT	BEGIN LEFT TURN LANE
347+86.09	14.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
348+60.80	6.0 LT	END BULLET NOSE, END MEDIAN
349+28.78	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
350+03.45	26.2 RT	END BULLET NOSE, BEGIN TAPER
356+75.19	15.0 RT	END TAPER
407+72.51	15.0 RT	BEGIN TAPER
409+21.25	17.5 RT	BEGIN LEFT TURN LANE TAPER
410+71.44	8.0 RT	BEGIN LEFT TURN LANE
414+43.83	14.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
415+18.52	6.0 LT	END BULLET NOSE, END MEDIAN
416+61.20	26.2 RT	END BULLET NOSE, BEGIN TAPER
423+32.51	15.0 RT	END TAPER
426+21.07	15.0 RT	BEGIN TAPER
427+65.95	17.4 RT	BEGIN LEFT TURN LANE TAPER
429+17.21	7.9 RT	BEGIN LEFT TURN LANE
432+95.78	14.3 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
433+68.72	6.2 LT	END BULLET NOSE, END MEDIAN
434+36.72	5.8 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
435+09.92	26.2 RT	END BULLET NOSE, BEGIN TAPER
441+81.07	15.0 RT	END TAPER
444+08.70	15.0 RT	BEGIN TAPER
445+59.49	17.5 RT	BEGIN LEFT TURN TAPER
447+09.52	8.0 RT	BEGIN LEFT TURN LANE
450+80.54	14.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
451+54.52	5.7 LT	END BULLET NOSE, END MEDIAN
452+22.92	5.7 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
452+98.28	26.2 RT	END BULLET NOSE, BEGIN TAPER
459+68.70	15.0 RT	END TAPER
474+69.22	15.0 RT	BEGIN TAPER
476+19.24	17.5 RT	BEGIN LEFT TURN LANE TAPER
477+69.28	8.0 RT	BEGIN LEFT TURN LANE
481+40.54	14.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
482+15.22	6.0 LT	END BULLET NOSE, END MEDIAN
482+83.22	6.0 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
483+57.91	26.2 RT	END BULLET NOSE, BEGIN TAPER
490+29.22	15.0 RT	END TAPER
509+49.46	15.0 RT	BEGIN TAPER
510+48.49	16.7 RT	BEGIN LEFT TURN LANE TAPER
512+48.97	4.0 RT	BEGIN LEFT TURN LANE
516+19.16	10.2 RT	END LEFT TURN LANE, BEGIN BULLET NOSE
516+88.83	8.6 LT	END BULLET NOSE, END MEDIAN
517+65.20	5.1 RT	BEGIN BULLET NOSE, BEGIN MEDIAN
525+10.51	15.0 RT	END TAPER
525+25.51	0.0 RT	END MEDIAN

STATE OF ALASKA
LOCAL REVIEW
PROJECT ENGINEER
PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

MEDIAN DITCH OFFSET TABLES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	C1	C2

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
X" = XX'

DATE TIME
6/26/2025 9:32 AM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130_C01_EST.DWG

ESTIMATE OF QUANTITIES

ITEM NUMBER	PAY ITEM	PAY UNIT	QUANTITY
201.0001.0000	CLEARING	ACRE	204.00
201.0002.0000	GRUBBING	ACRE	142.00
201.2003.0000	INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL	CS	ALL REQ'D
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQ'D
202.0002.0000	REMOVAL OF PAVEMENT	SY	355,000.00
202.0003.0000	REMOVAL OF SIDEWALK	SY	157.00
202.0004.0000	REMOVAL OF CULVERT PIPE	LF	13,000.00
202.0009.0000	REMOVAL OF CURB AND GUTTER	LF	4,550.00
202.0010.0000	SINGLE MAIL BOX INSTALLATION	EA	33.00
202.0011.0000	MULTIPLE MAIL BOX INSTALLATION	EA	1.00
202.0012.0000	DOUBLE MAIL BOX INSTALLATION	EA	0.00
202.0018.0000	REMOVAL OF CULVERT PIPE	LS	ALL REQ'D
202.2008.0000	REMOVAL OF PIPE, INLET	LF	0.00
202.2023.0000	PAVEMENT PLANING	SY	2,500.00
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	755,000.00
203.0006.000A	BORROW, TYPE A	TON	1,324,000.00
203.0009.0000	OBLITERATION OF ROADWAY	SY	100.00
203.2013.0000	CONTAMINATED MATERIAL TESTING, HANDLING & DISPOSAL	CS	ALL REQ'D
203.2038.0000	DITCH LINE		
205.0001.0000	EXCAVATION		
205.0006.0000	STRUCTURA		
301.0001.00D1	AGGREGATE		
306.0001.0000	ATB		
401.0001.002A	HMA, TYPE		
401.0004.5240	ASPHALT B		
401.0005.002B	HMA, TEMP		
401.0014.0000	JOINT ADHE		
401.0015.0000	ASPHALT M		
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	470.00
406.0004.0000	RUMBLE STRIPS	MILE	40.00
408.2022.0000	COMBINED PRICE ADJUSTMENT	CS	ALL REQ'D
501.0001.0000	CLASS A CONCRETE	LS	ALL REQ'D
501.0002.0000	CLASS A-A CONCRETE	LS	ALL REQ'D
501.0007.0000	PRECAST CONCRETE MEMBER, 145'-0" DECKED BULB-TEE	EA	15.00
503.0001.0000	REINFORCING STEEL	LS	ALL REQ'D
503.0002.0000	EPOXY-COATED REINFORCING STEEL	LS	ALL REQ'D
505.0005.0000	FURNISH STRUCTURAL STEEL PIPE PILES, 4'-0" DIA. X 1" PIPE	LF	900.00
505.0006.0000	DRIVE STRUCTURAL STEEL PIPE PILES, 4'-0" DIA. X 1" PIPE	EA	18.00
505.0014.0000	SPECIAL PILE EXCAVATION	CS	ALL REQ'D
507.0001.0002	STEEL BRIDGE RAILING, 2-TUBE	LF	860.00
507.0002.0000	PEDESTRIAN RAILING	LF	190.00
507.0004.0000	CONCRETE BRIDGE BARRIER	LF	0.00
507.0006.0000	CABLE SAFETY RAILING	LF	0.00
508.0001.0000	WATERPROOFING MEMBRANE, SPRAY-APPLIED	LS	ALL REQ'D

ESTIMATE OF QUANTITIES

ITEM NUMBER	PAY ITEM	PAY UNIT	QUANTITY
511.0001.0000	MECHANICALLY STABILIZED EARTH WALL RETAINING WALL	SF	2,470.00
514.0001.0000	AESTHETIC FASCIA	SF	0.00
514.0002.0000	ANTI-GRAFFITI PROTECTION	SF	0.00
516.0001.0000	EXPANSION JOINT, SILICONE	LF	0.00
602.0001.0000	STRUCTURAL PLATE PIPE 204,--	LF	1.00
603.0021.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LF	16,100.00
603.0021.0036	CORRUGATED POLYETHYLENE PIPE 36 INCH	LF	2,550.00
603.0022.0024	END SECTION FOR CORRUGATED POLYETHYLENE PIPE 24 INCH	EA	73.00
603.0022.0036	END SECTION FOR CORRUGATED POLYETHYLENE PIPE 36 INCH	EA	16.00
604.0005.000C	INLET, TYPE C	EA	73.00
606.0001.0000	W-BEAM GUARDRAIL	LF	600.00
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LF	451.00
	IMPRINTED, MEDIAN		
609.0002.0001	CURB AND GUTTER, TYPE 1	LF	4,900.00
610.0002.0000	DITCH LINING	TON	
611.0002.0001	RIPRAP, CLASS I	TON	95.00
611.0002.0002	RIPRAP, CLASS II	TON	2,000.00
613.0001.0000	RIGHT-OF-WAY MONUMENT	EA	55.00
615.0001.0000	STANDARD SIGN	SF	1309.00
615.2002.0000	DELINEATOR, RIGID	EA	372.00
615.2018.0000	SPECIAL SIGNS	EA	1.00
618.0002.0000	SEEDING	LB	3330.00
618.0003.0000	WATER FOR SEEDING	MGAL	27800.00

ESTIMATE UPDATES IN PROGRESS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

ESTIMATE OF QUANTITIES

LOCAL REVIEW

STATE OF ALASKA
REGISTERED
PROFESSIONAL ENGINEER
PROJECT ENGINEER

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2025	C2	C2

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
X" = XX'

DATE TIME
6/26/2025 9:32 AM

DRAWING LOCATION
C:\DOWL_PW\D0417419\00130_C01_EST.DWG

ESTIMATE OF QUANTITIES

ITEM NUMBER	PAY ITEM	PAY UNIT	QUANTITY
619.0002.0000	MATTING	SY	28000.00
620.0001.0000	TOPSOIL	SY	247000.00
631.0002.0001	GEOTEXTILE, EROSION CONTROL, CLASS 1	SY	2000.00
639.0001.0000	DRIVEWAY	EA	140.00
639.2000.0000	APPROACH	EA	59.00
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
641.0005.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CS	ALL REQ'D
641.0006.0000	WITHHOLDING	CS	ALL REQ'D
641.0007.0000	SWPPP MANAGER	LS	ALL REQ'D
641.0008.0000	SWPPPTRACK	CS	ALL REQ'D
642.0001.0000	CONSTRUCTION		
642.0003.0000	THREE PERSON		
642.2005.0000	CONTRACTOR-FI		
642.2006.0000	CONTRACTOR-FI		
642.2008.0000	PASSING SIGHT		
643.0002.0000	TRAFFIC MAINTEI		
643.0003.0000	PERMANENT CON		
643.0014.0000	INTERIM PAVEME		
643.0023.0000	TRAFFIC PRICE		
643.0025.0000	TRAFFIC CONTRO		
643.0032.0000	FLAGGING		
643.0033.0000	DETOUR		
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.0002.0000	FIELD LABORATORY	LS	ALL REQ'D
644.0003.0000	CURING SHED	LS	ALL REQ'D
644.0009.0000	VEHICLE (UTV)	EA	2.00
644.0015.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EA	1.00
644.0016.0000	STORAGE CONTAINER	EA	1.00
644.2003.0000	IMAGE DOCUMENTATION	LS	ALL REQ'D
644.2004.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
645.0001.0000	TRAINING PROGRAM, 10	HR	12500.00
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
647.2000.0000	WIDE PAD DOZER, 65-HP MINIMUM	CS	ALL REQ'D
647.2002.0000	BACKHOE, 4WD, 1 CY BUCKET, 75-HP MINIMUM, 15 FT DEPTH	CS	ALL REQ'D
660.0002.0000	FLASHING BEACON SYSTEM COMPLETE, IF DESIRED AT SWANSON RIVER	LS	ALL REQ'D
660.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE, LEFT AND RIGHT SIDE OF HIGHWAY	LS	ALL REQ'D
660.2003.0000	TRAFFIC SIGNAL SYSTEM MODIFICATIONS IF NECESSARY, DEVIN DRIVE INTERSECTION	LS	ALL REQ'D
660.2010.0000	ROADWAY WEATHER INFORMATION SYSTEM COMPLETE, STERLING HIGHWAY MP 88.5	LS	ALL REQ'D

ESTIMATE OF QUANTITIES

ITEM NUMBER	PAY ITEM	PAY UNIT	QUANTITY
661.0001.0000	LOAD CENTER, TYPE 1	EA	1.00
662.2001.0000	SIGNAL INTERCONNECT, CONDUIT	LS	ALL REQ'D
669.2003.0000	AUTOMATED TRAFFIC RECORDER	LS	ALL REQ'D
669.2005.0000	AUTOMATED TRAFFIC RECORDER LOOP(S)	LS	ALL REQ'D
669.2013.0000	WEIGH-IN-MOTION	LS	ALL REQ'D
670.2006.0000	MMA PAVEMENT MARKINGS, LONGITUDINAL INLAID	LF	393000.00
670.2007.0000	MMA PAVEMENT MARKINGS, SYMBOLS AND ARROW(S) INLAID	EA	150.00
682.2000.0000	VAC-TRUCK POTHOLE	CS	ALL REQ'D
683.2000.0006	UTILITY SLEEVE, 6 INCH	LF	0.00
688.2001.0000	UTILITY SUPPORT	CS	ALL REQ'D
688.2002.0000	UTILITY SUPPORT PRICE ADJUSTMENT	CS	ALL REQ'D

ESTIMATE UPDATES IN PROGRESS

203.0006.0000	BORROW	144 LB./C.F.
301.0001.0001	AGGREGATE BASE COURSE, GRADING D-1	144 LB./C.F.
306.0001.0000	ATB	151 LB./C.F.
306.0002.5240	ASPHALT BINDER, GRADE PG 52-40 V	5.3% OF TOTAL WEIGHT OF 306.0001.0000
401.0001.002A	HMA, TYPE II; CLASS A	151 LB./C.F.
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40 V	5.3% OF TOTAL WEIGHT OF 401.0001.0000
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.000334 TON/S.Y.
608.2002.0000	ASPHALT PATHWAY	151 LB./C.F.
611.0002.0001	RIPRAP, CLASS I	108 LB./C.F.
611.0002.0002	RIPRAP, CLASS II	108 LB./C.F.
611.0002.0003	RIPRAP, CLASS III	108 LB./C.F.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

ESTIMATE OF QUANTITIES

STATE OF ALASKA
LOCAL REVIEW
REGISTERED PROFESSIONAL ENGINEER

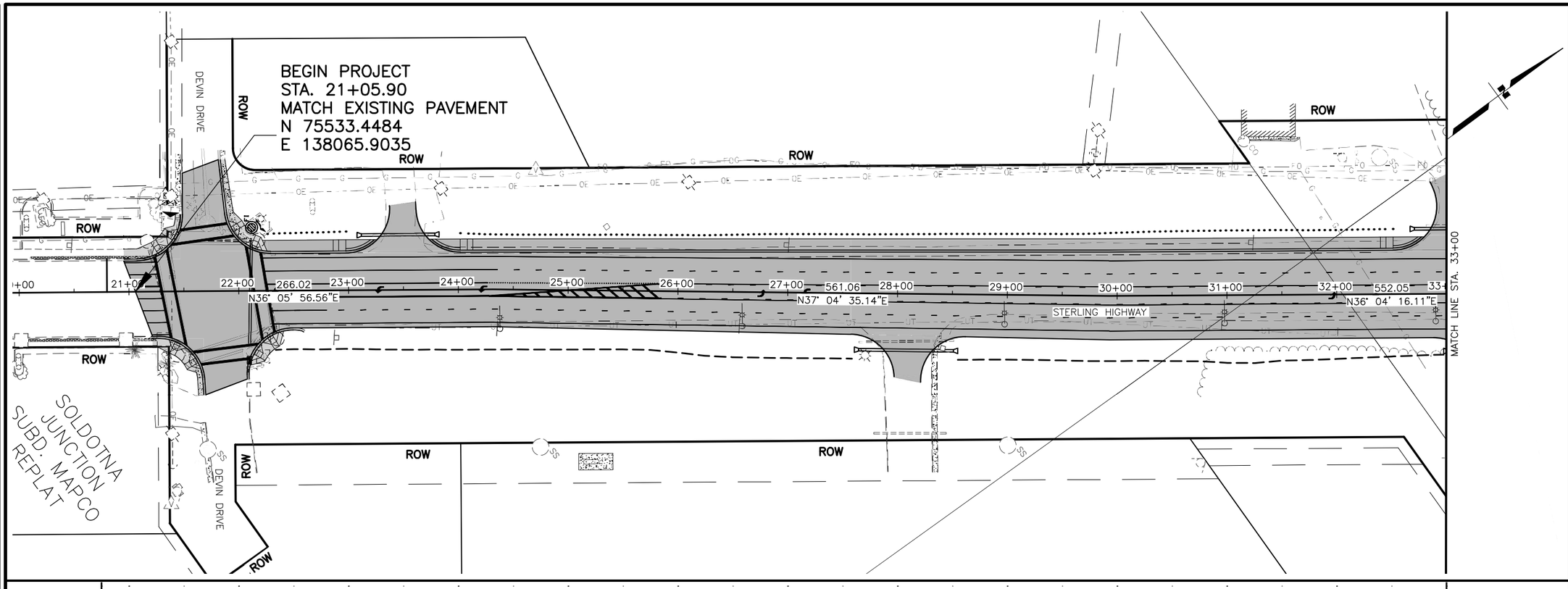
PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99516
(907)562-2000
#AECL848-AK

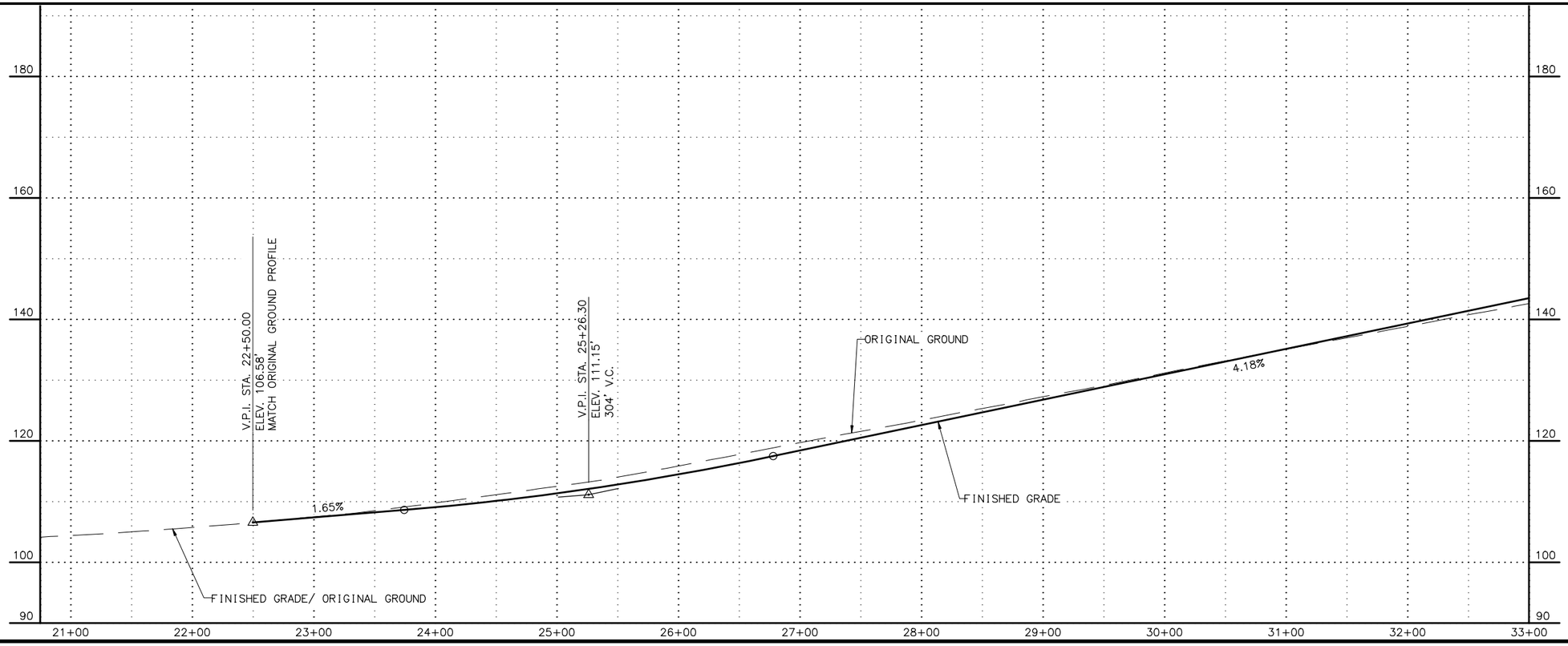
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:14 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

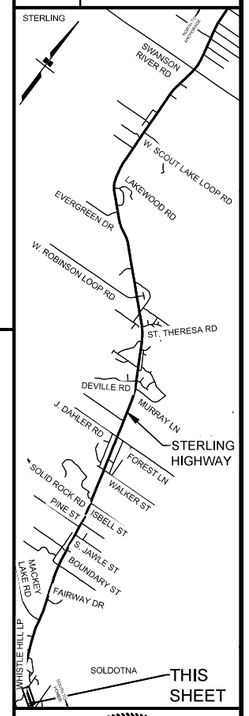




SHEET NO.	TOTAL SHEETS
F01	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
OA33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PLAN AND PROFILE STA 20+95.53 TO STA 33+00

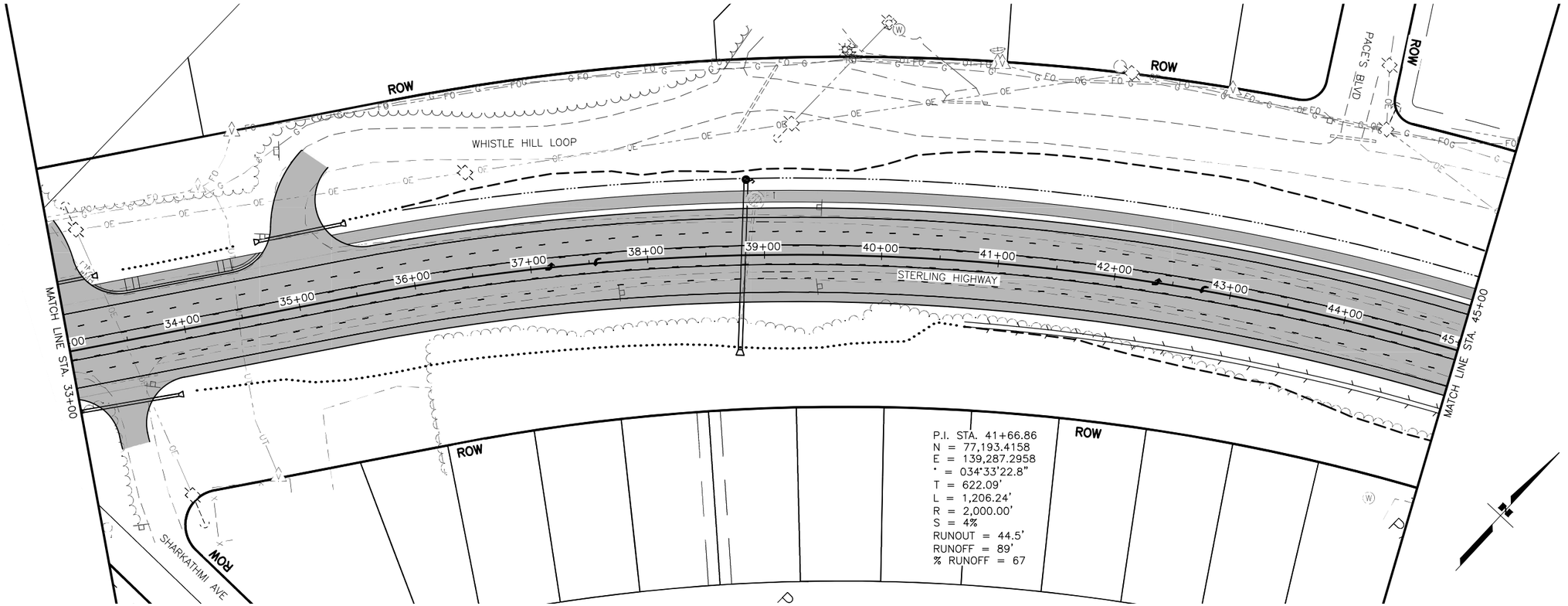
PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
AECL848-AK

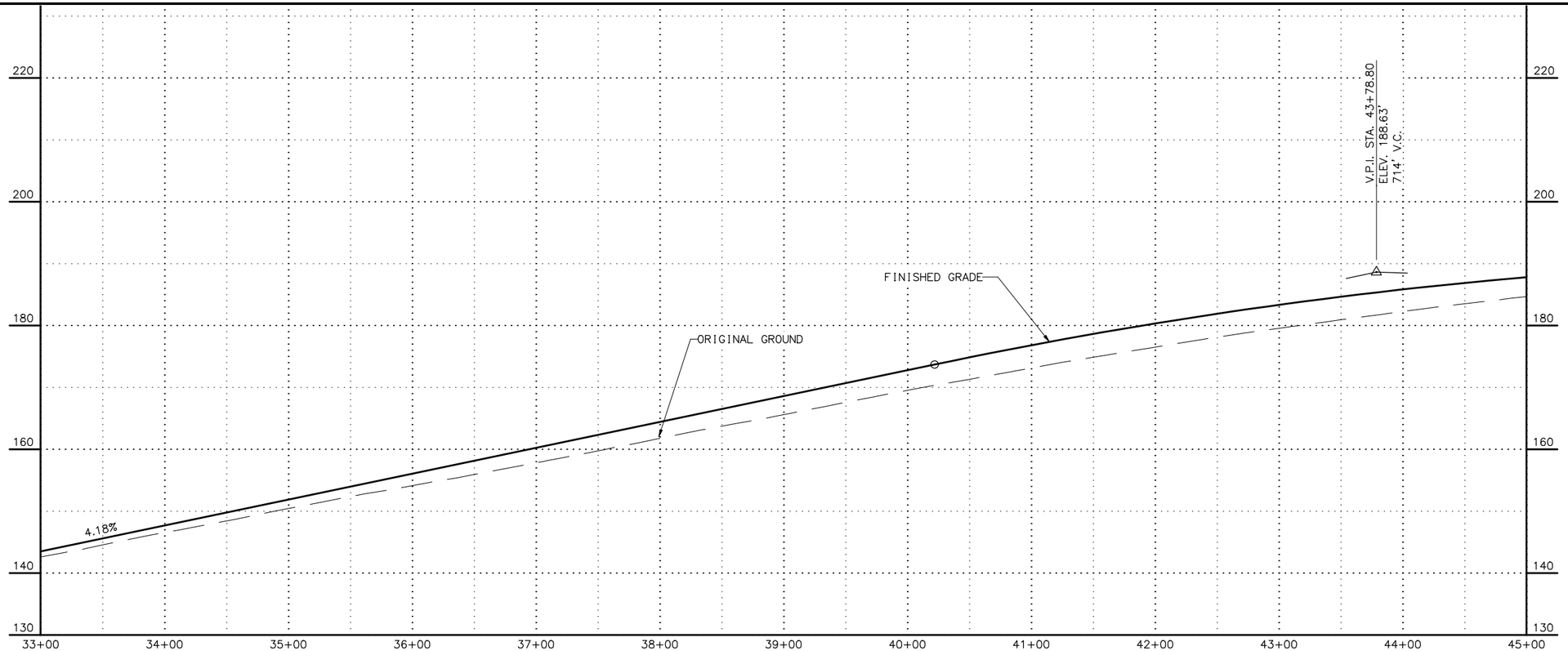
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:15 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

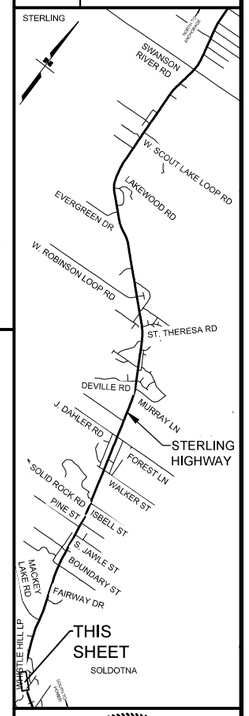




SHEET NO.	TOTAL SHEETS
F02	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

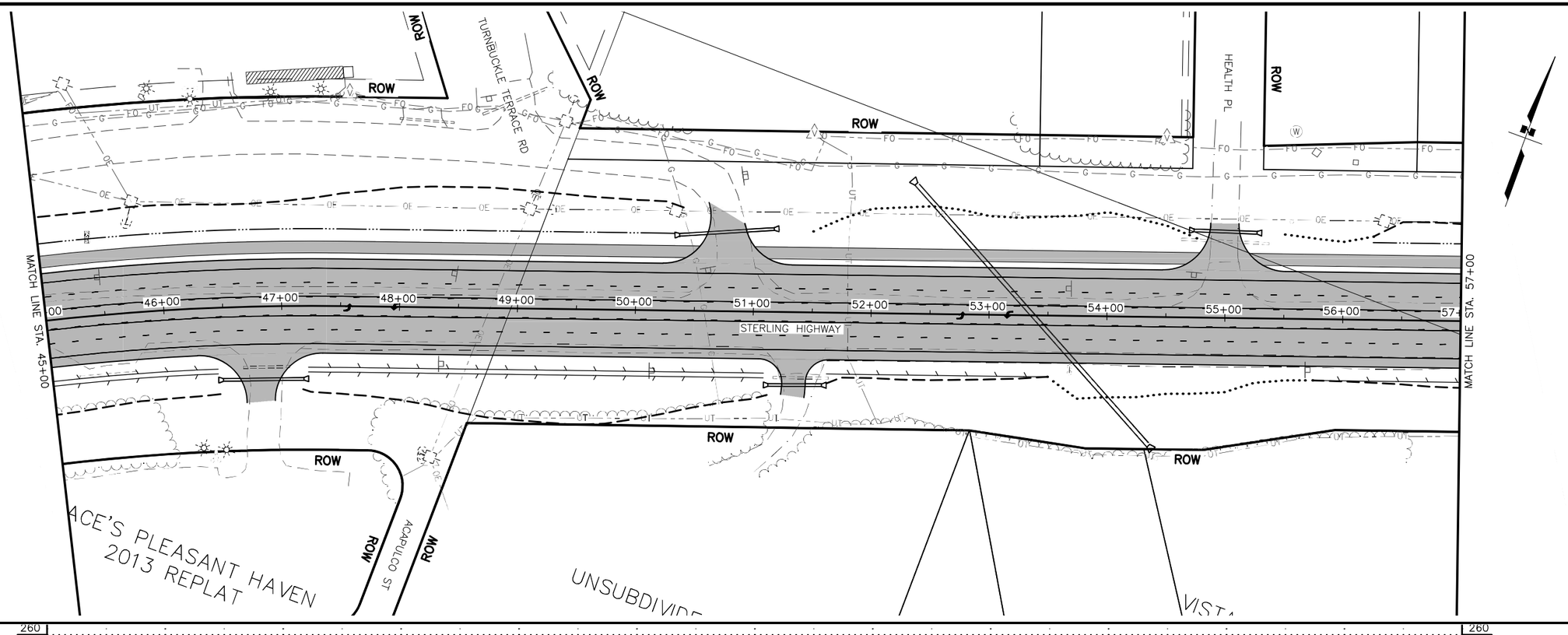
PLAN AND PROFILE STA 33+00 TO STA 45+00

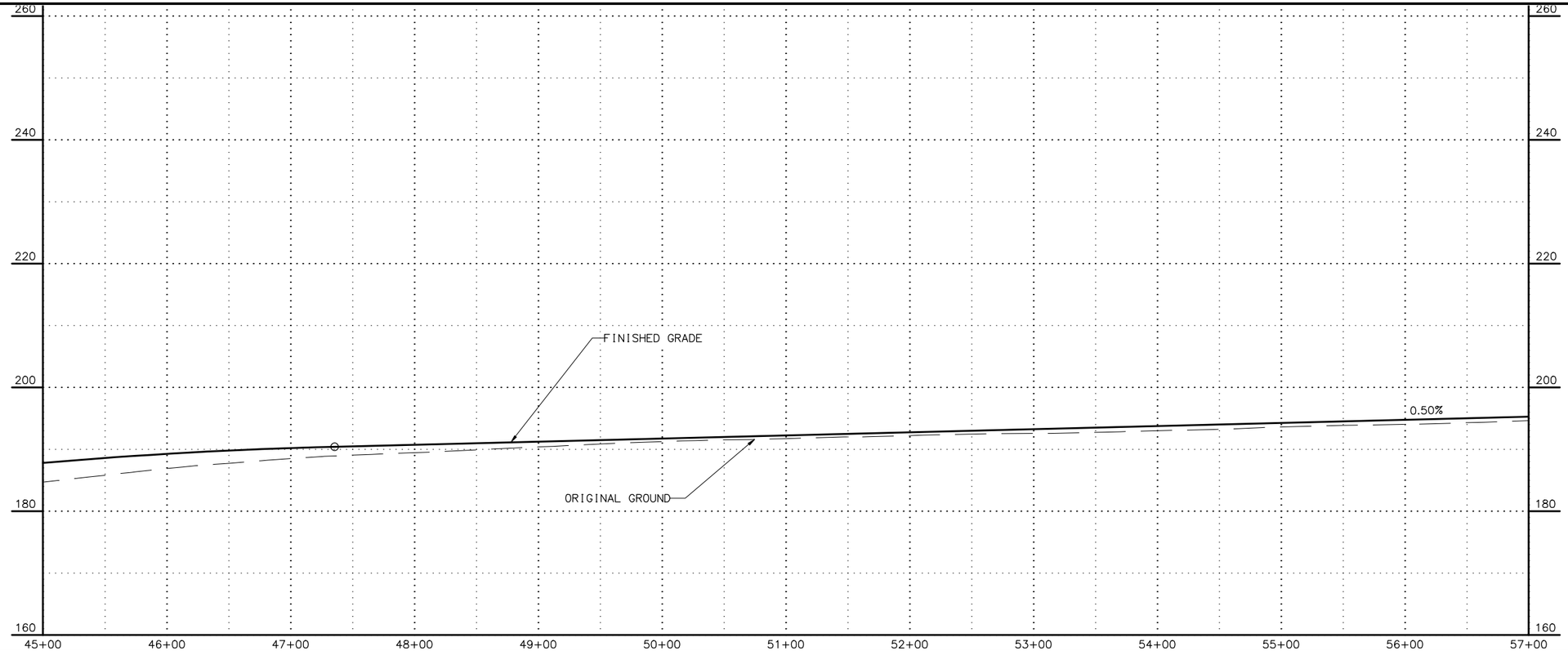
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:15 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

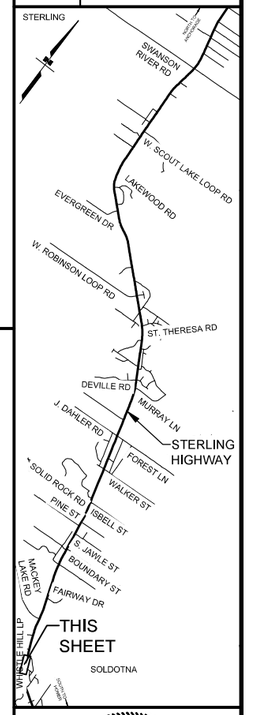




SHEET NO.	TOTAL SHEETS
F03	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

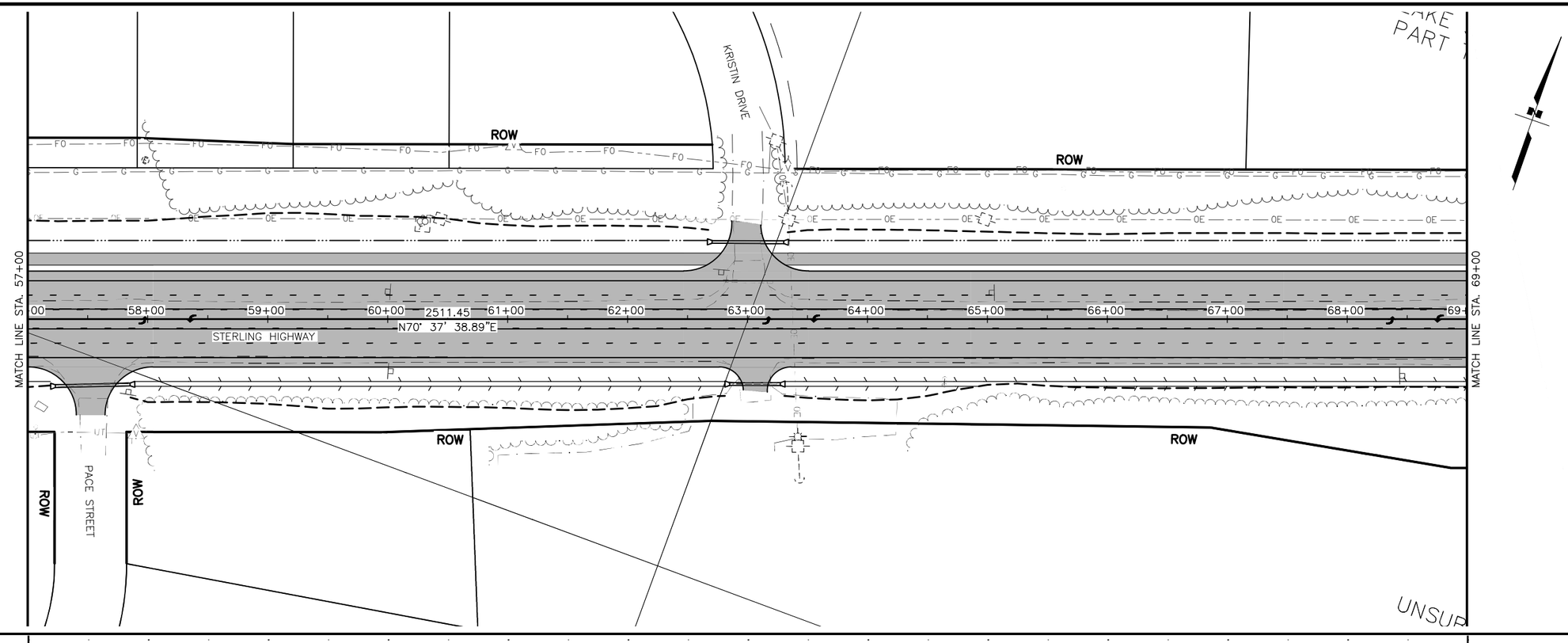
PLAN AND PROFILE STA 45+00 TO STA 57+00

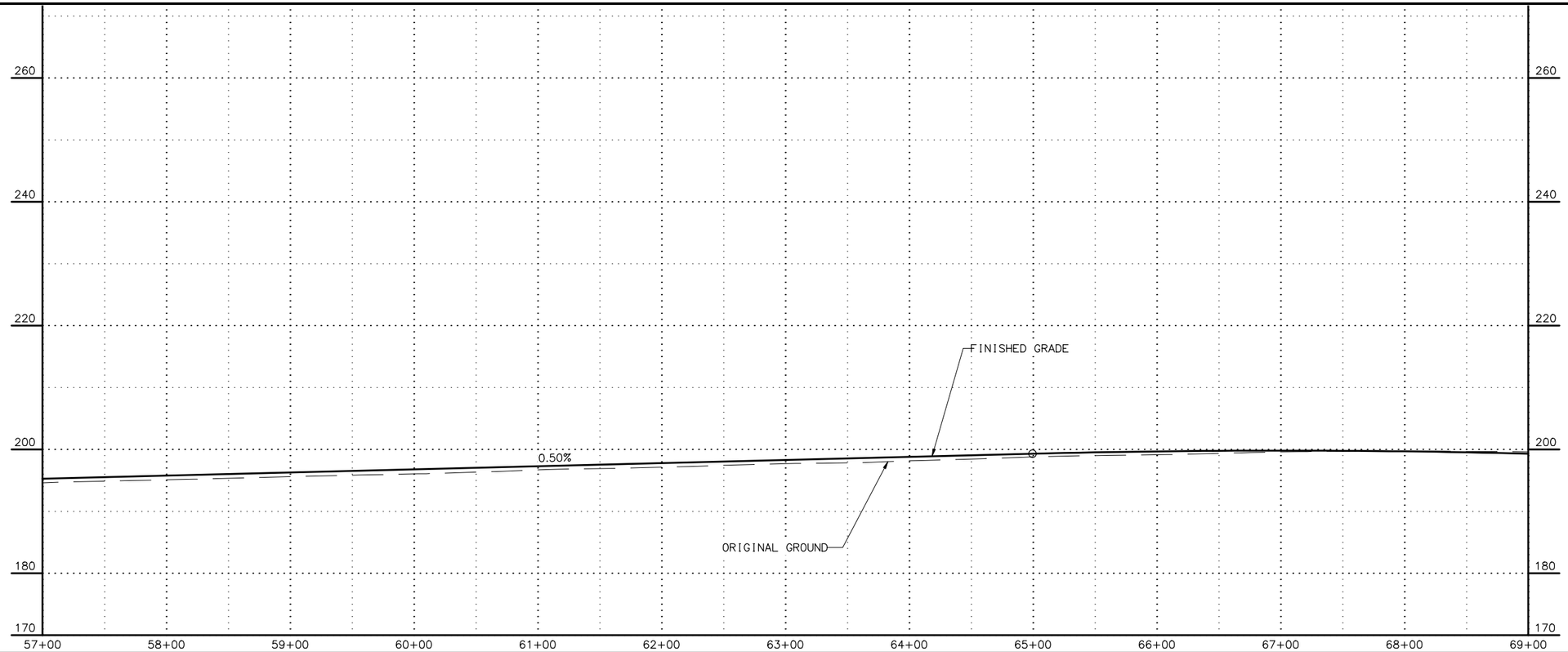
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:15 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

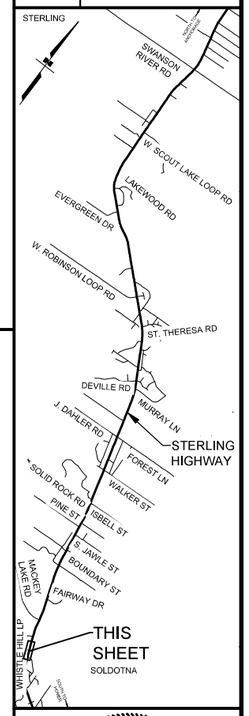




SHEET NO.	TOTAL SHEETS
F04	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
OA33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

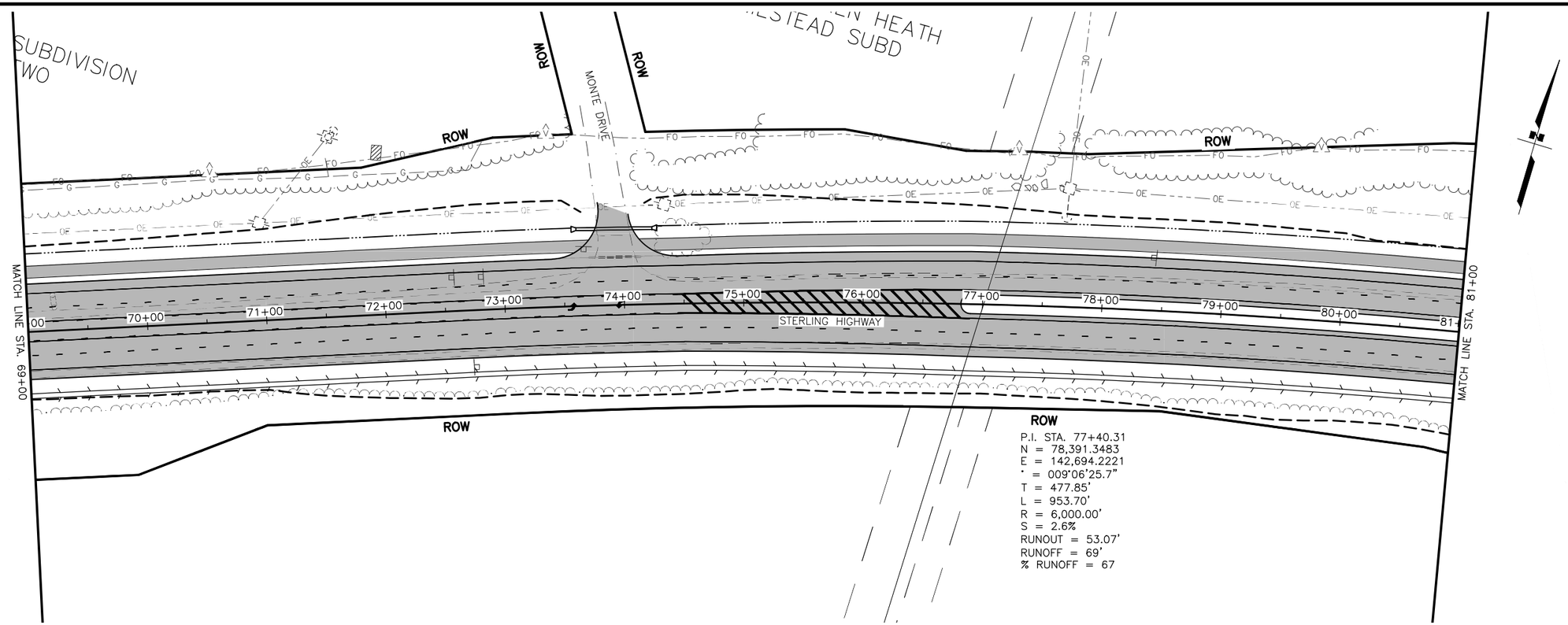
PLAN AND PROFILE STA 57+00 TO STA 69+00

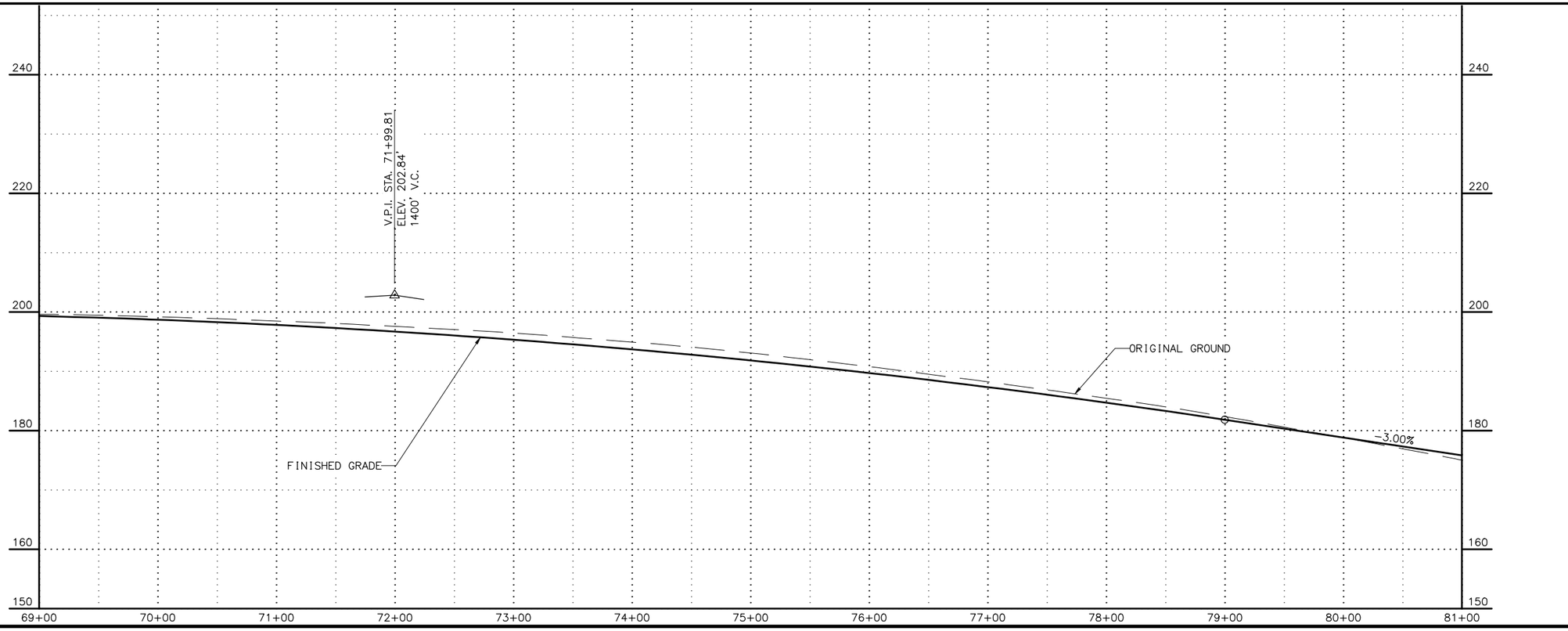
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:15 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

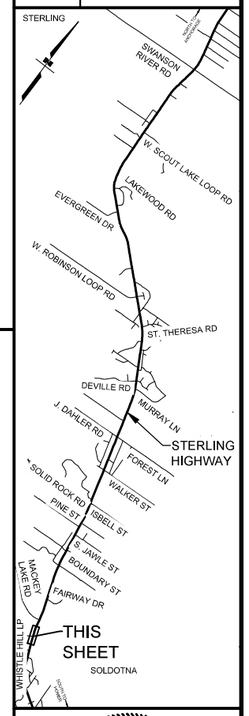




SHEET NO.	TOTAL SHEETS
F05	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

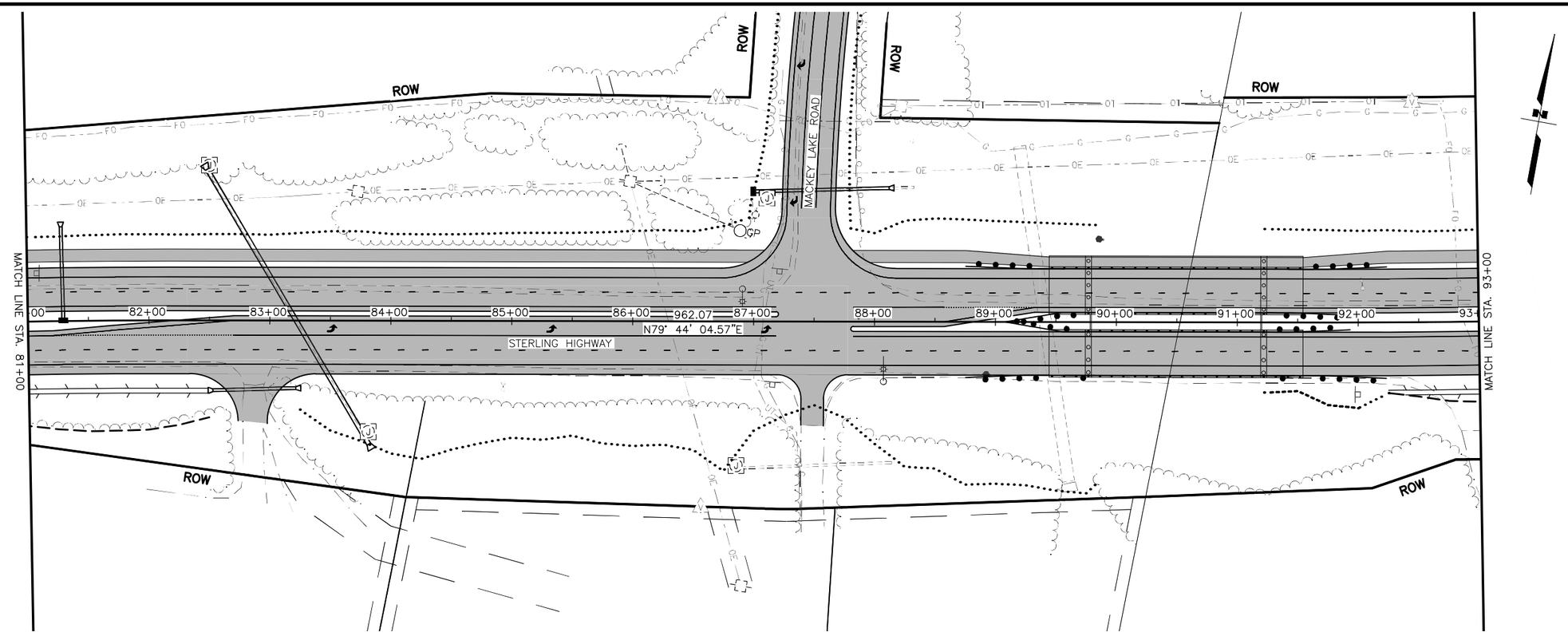
PLAN AND PROFILE STA 69+00 TO STA 81+00

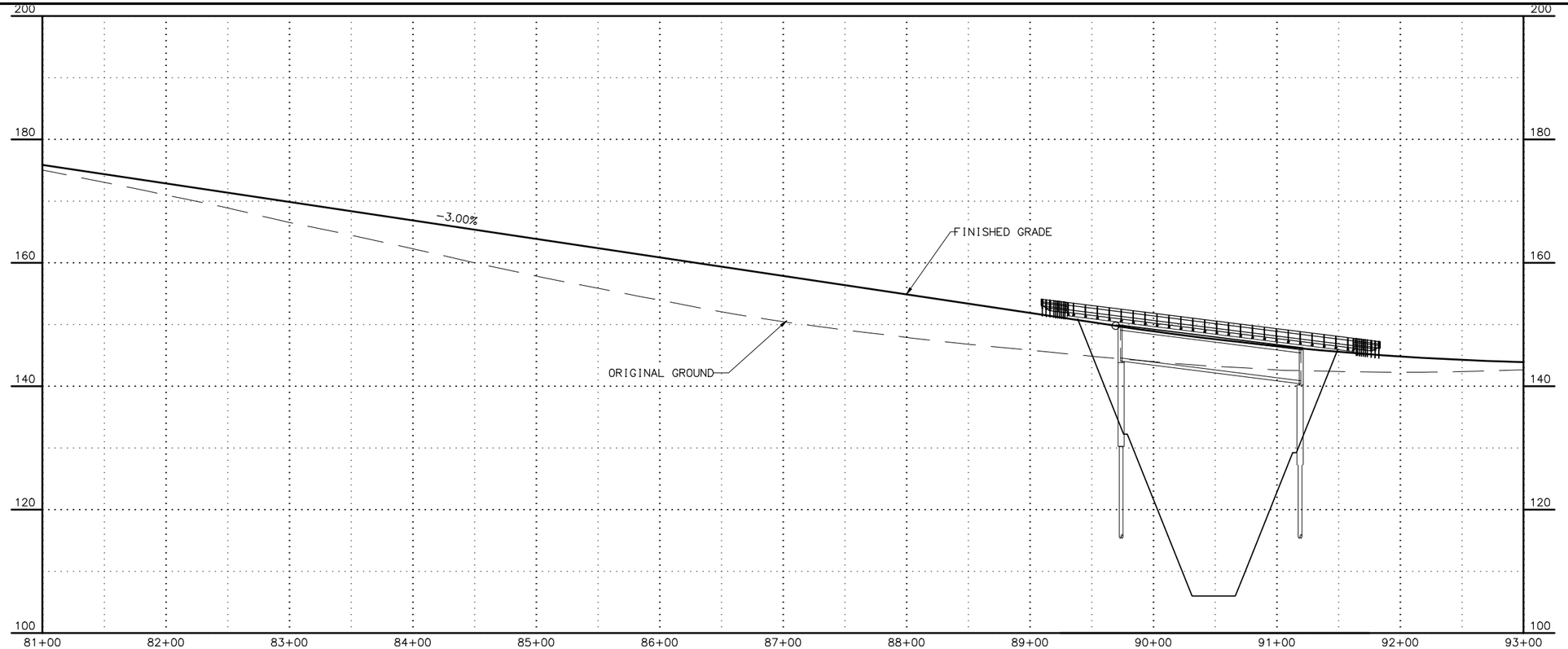
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:16 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG



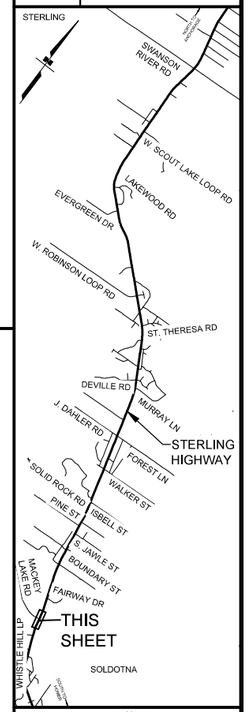


SHEET NO.	TOTAL SHEETS
F06	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4 OCT 2024
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

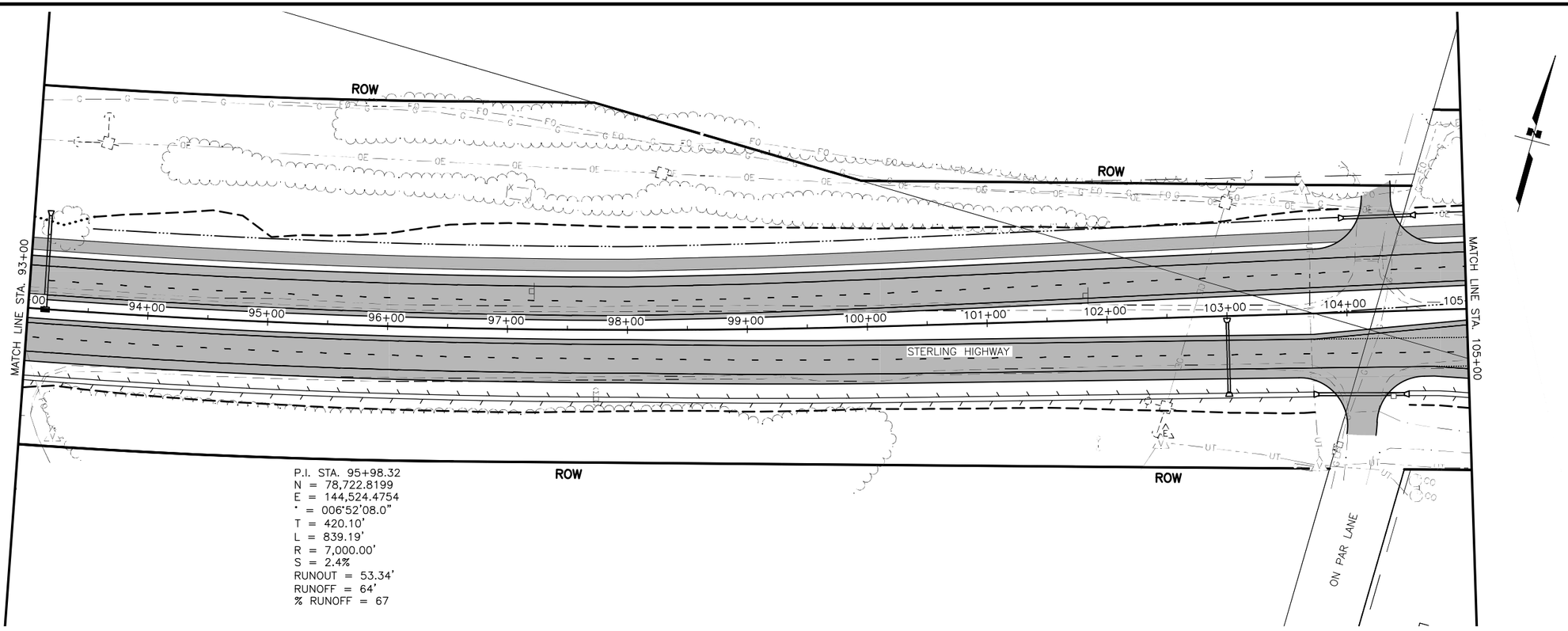
PLAN AND PROFILE STA 81+00 TO STA 93+00

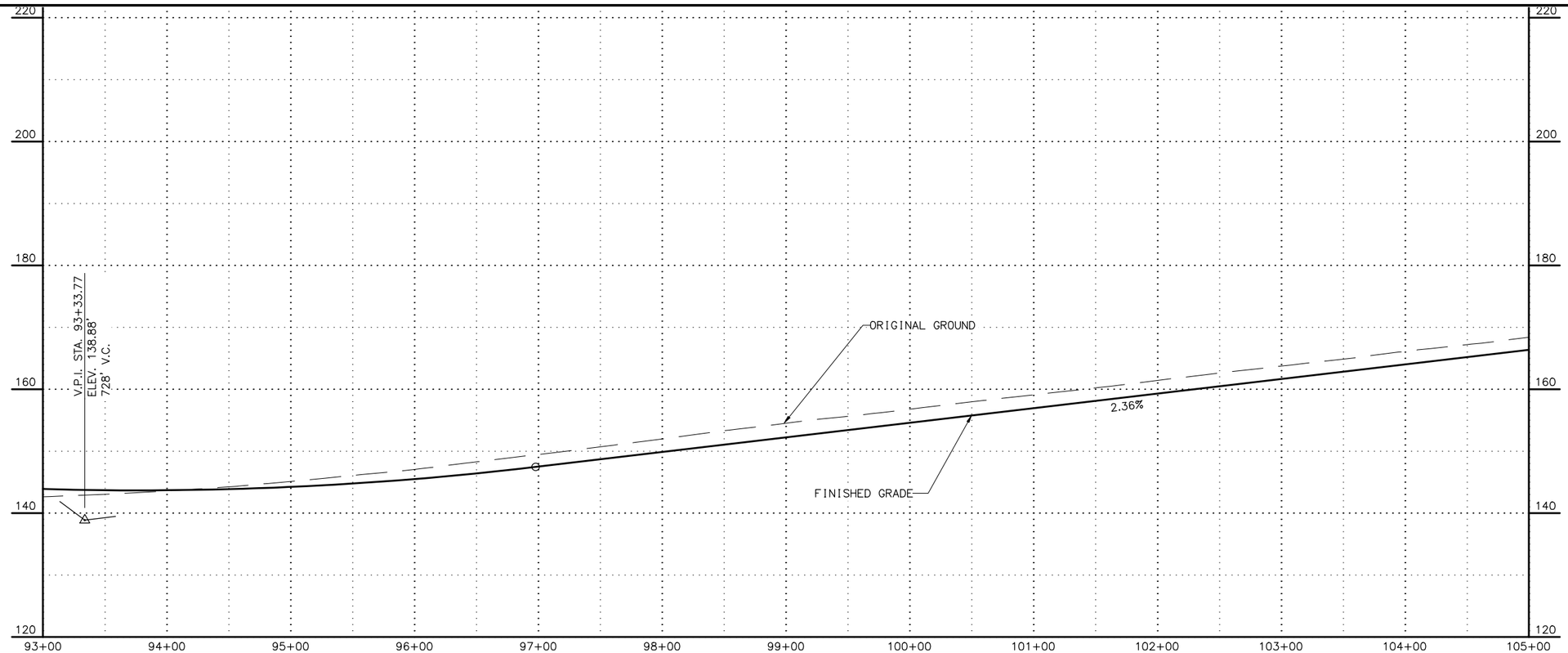
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:16 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

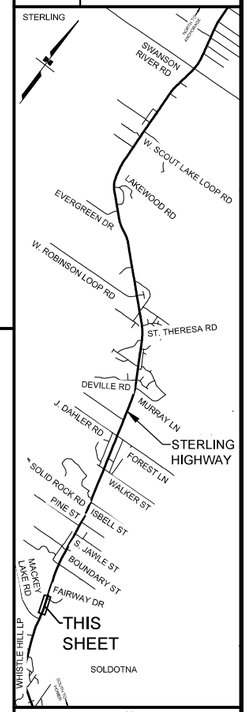




SHEET NO.	TOTAL SHEETS
F07	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

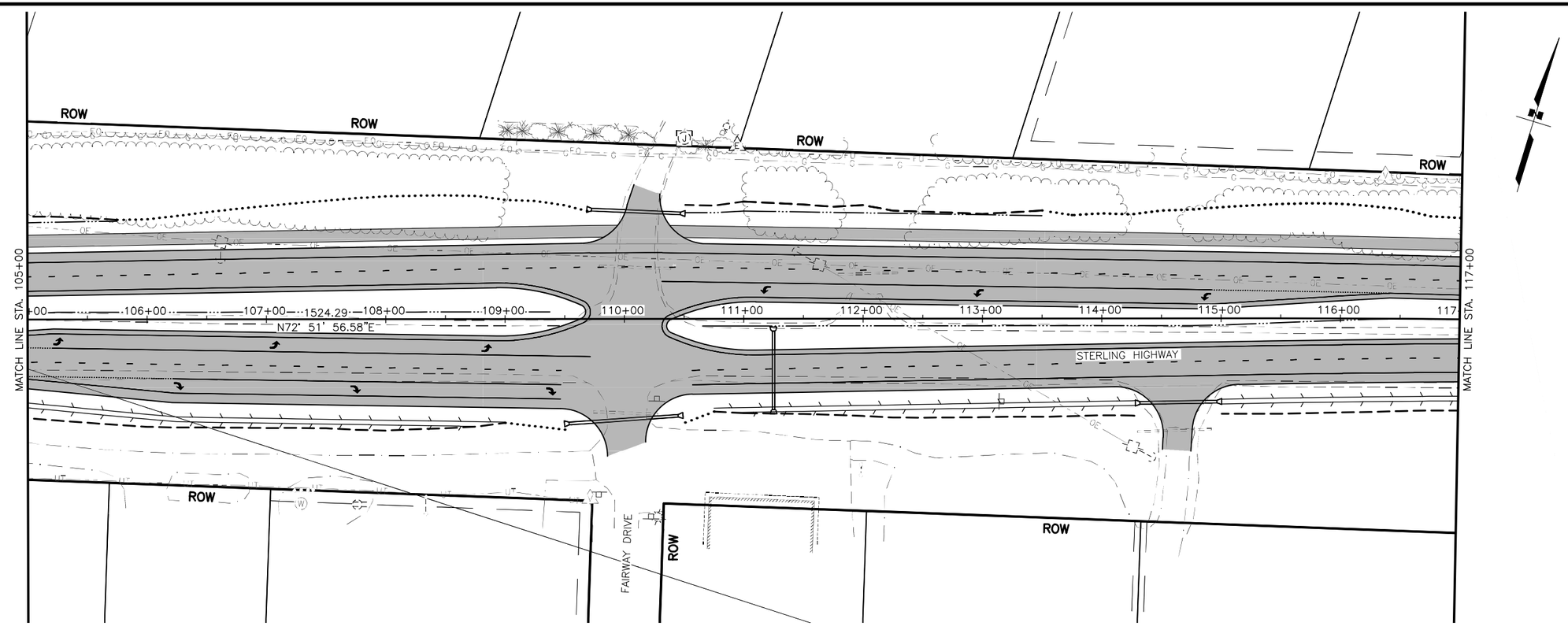
PLAN AND PROFILE STA 93+00 TO STA 105+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE TIME
6/26/2025 9:16 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

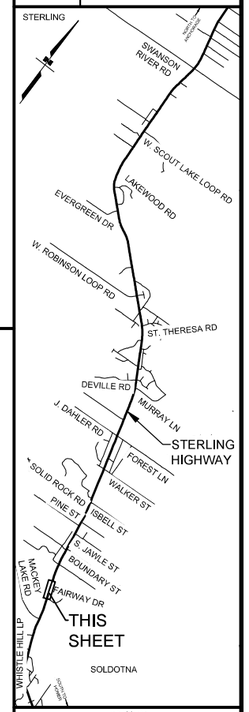


SHEET NO.	TOTAL SHEETS
F08	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

OA33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT MANAGER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

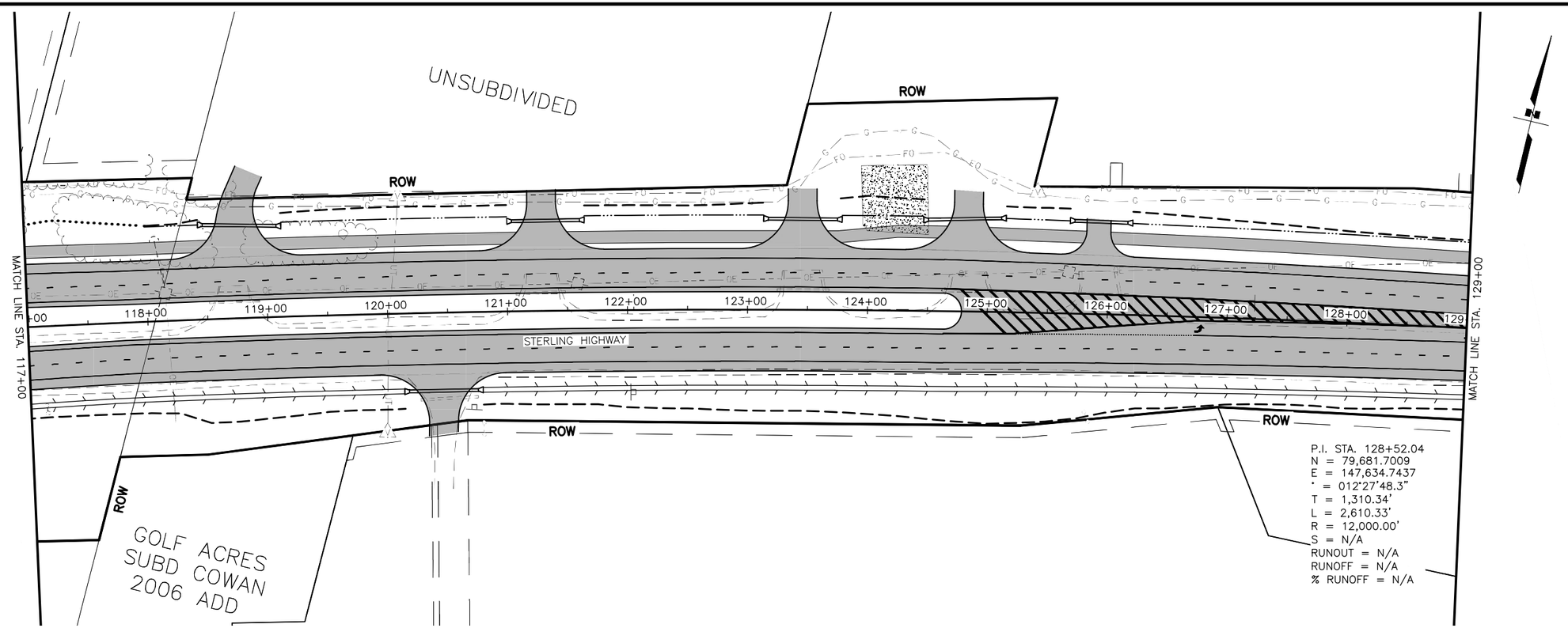
PLAN AND PROFILE STA 105+00 TO STA 117+00

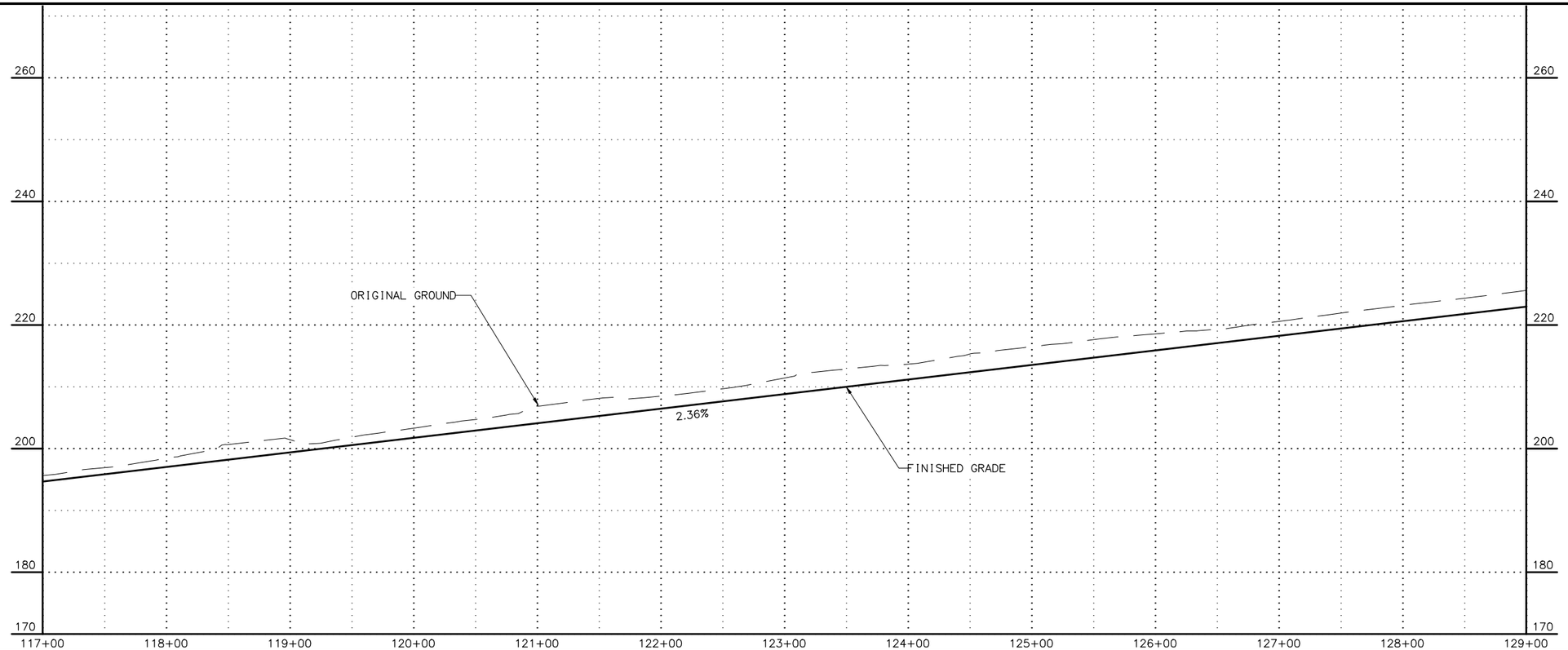
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE TIME
6/26/2025 9:16 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

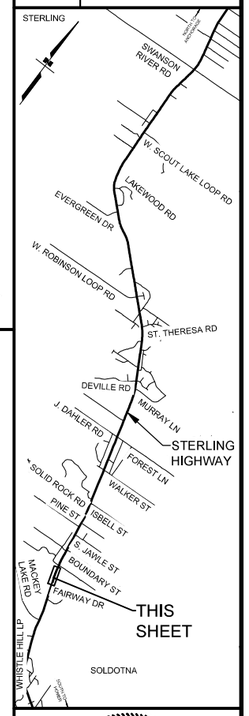




SHEET NO.	TOTAL SHEETS
F09	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

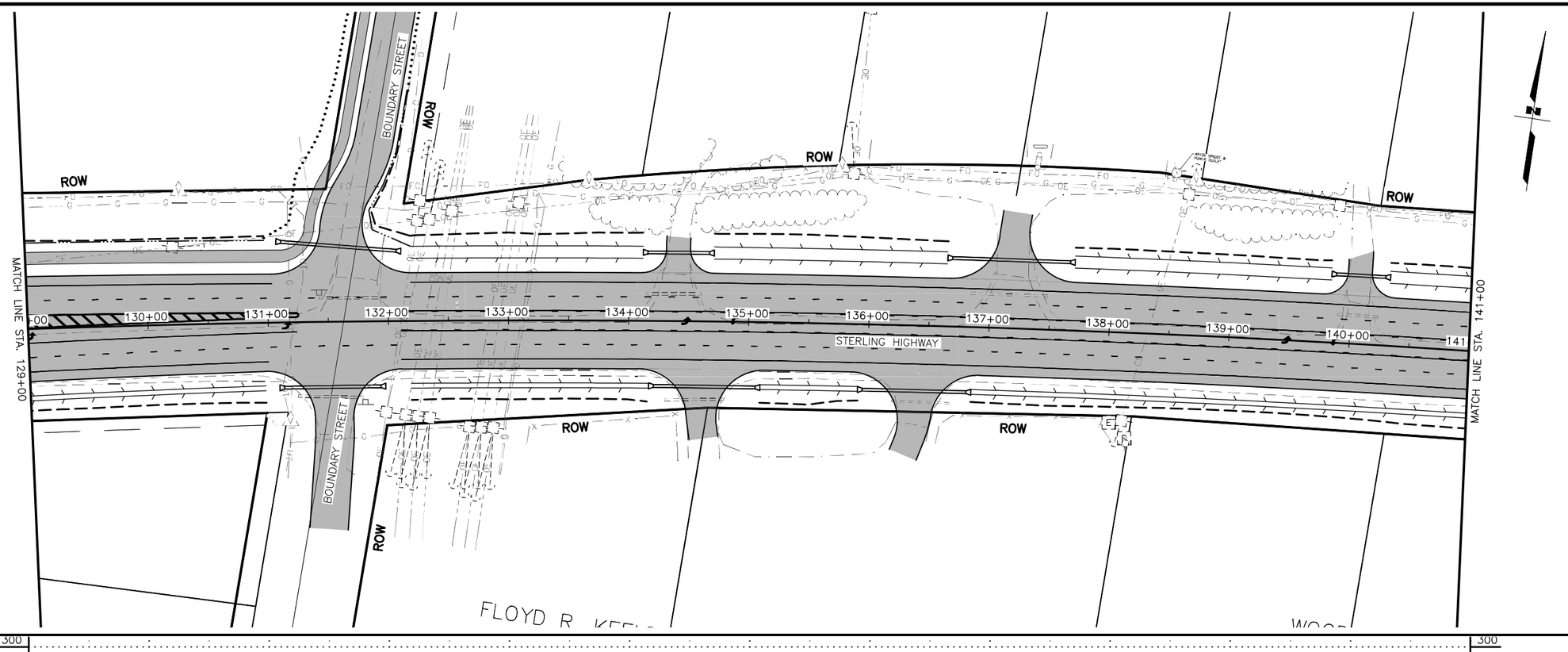
PLAN AND PROFILE STA 117+00 TO STA 129+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:17 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

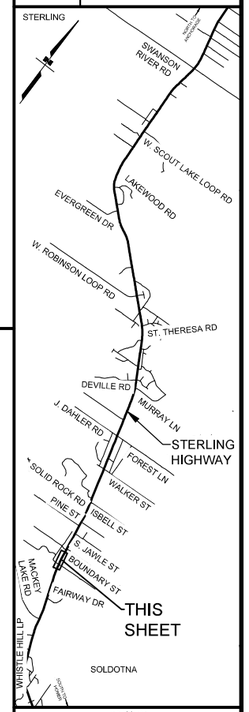


SHEET NO.	TOTAL SHEETS
F10	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4 OCT 25
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

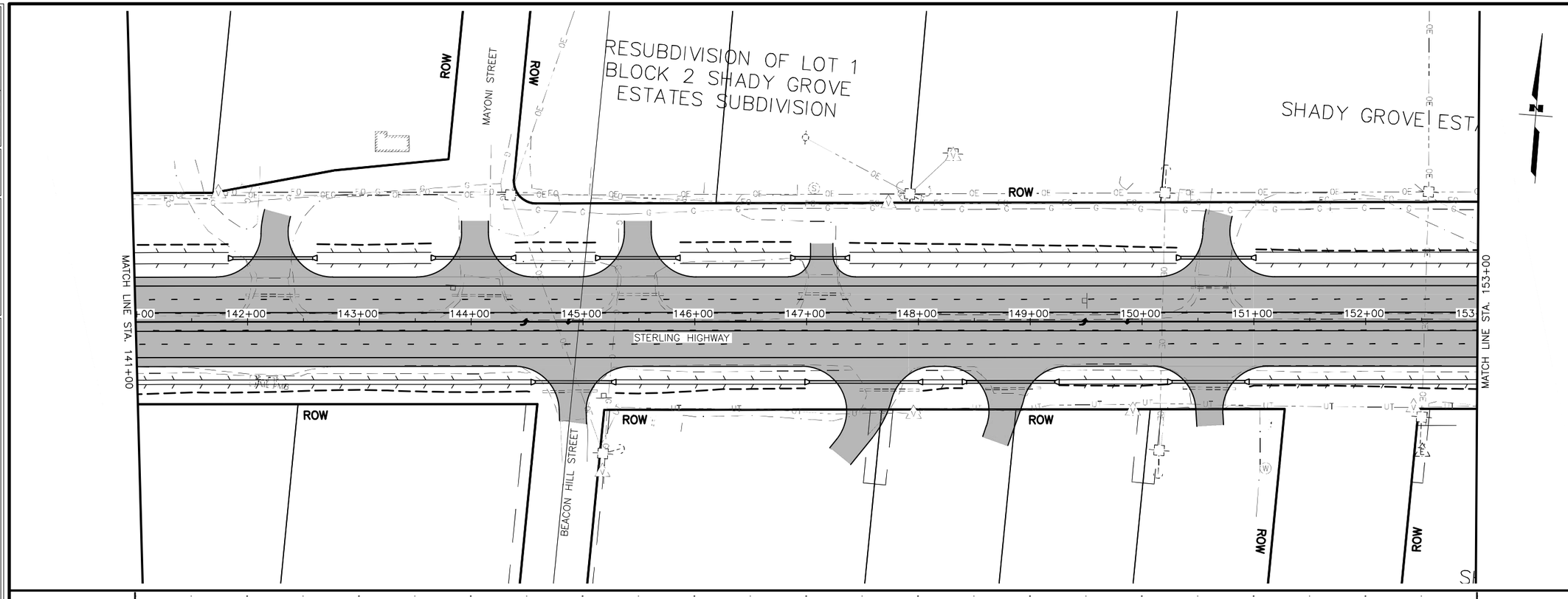
PLAN AND PROFILE STA 129+00 TO STA 141+00

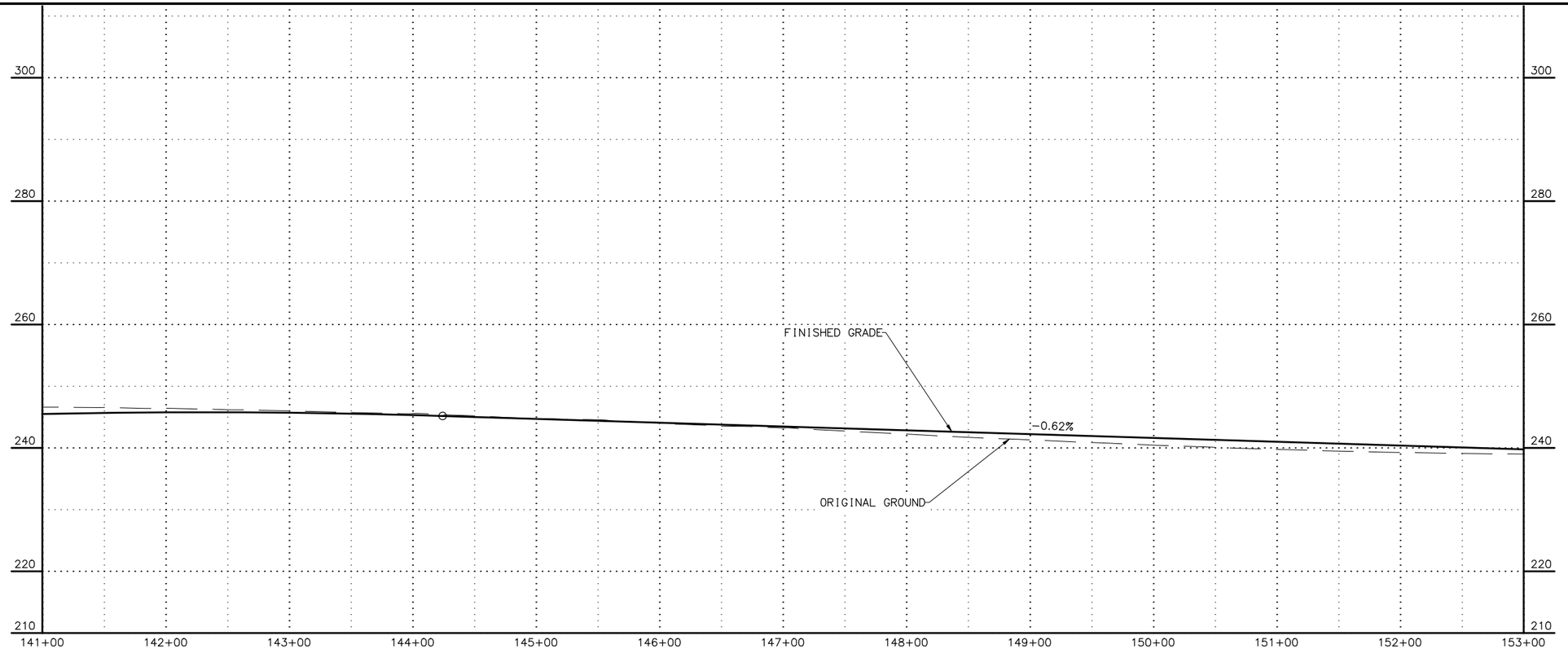
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:17 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

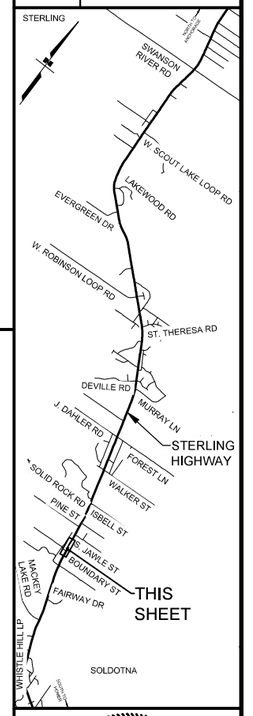




SHEET NO.	TOTAL SHEETS
F11	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



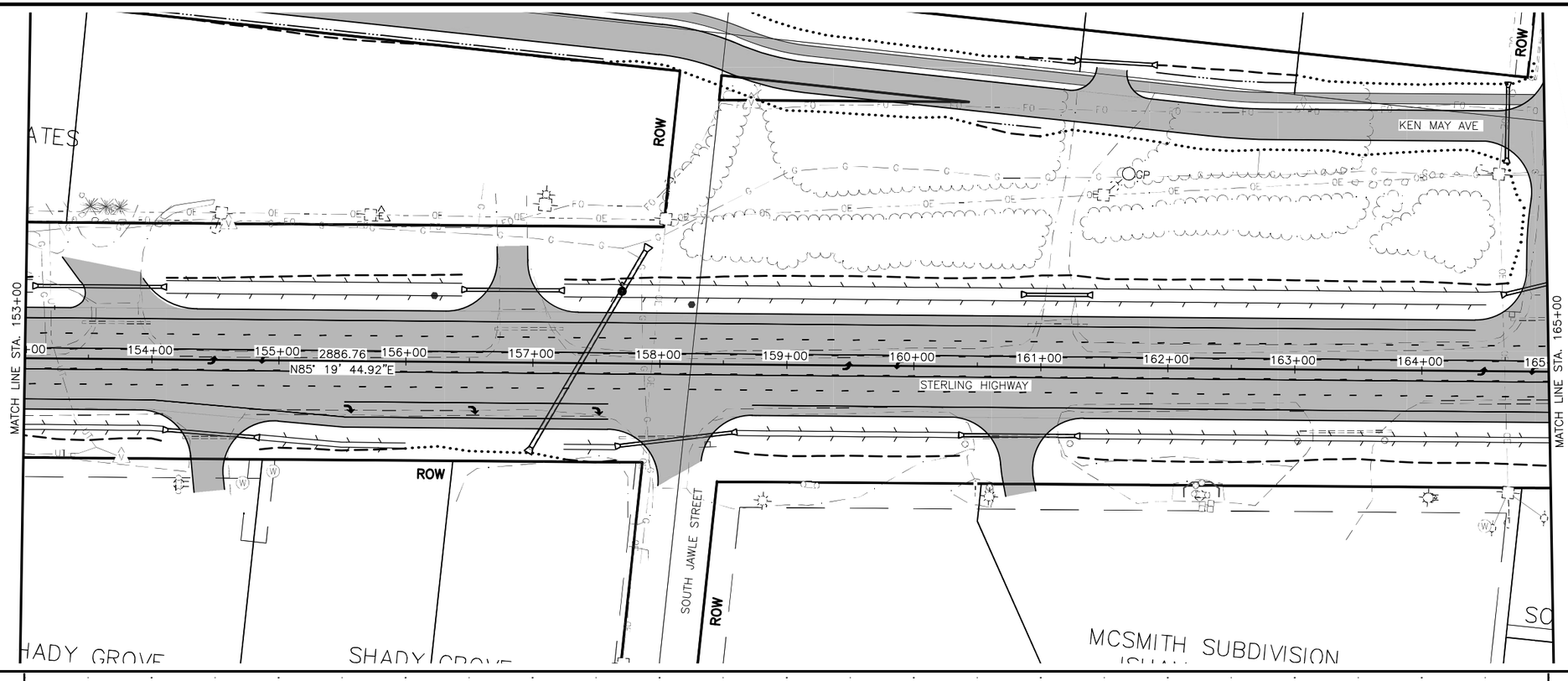
STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

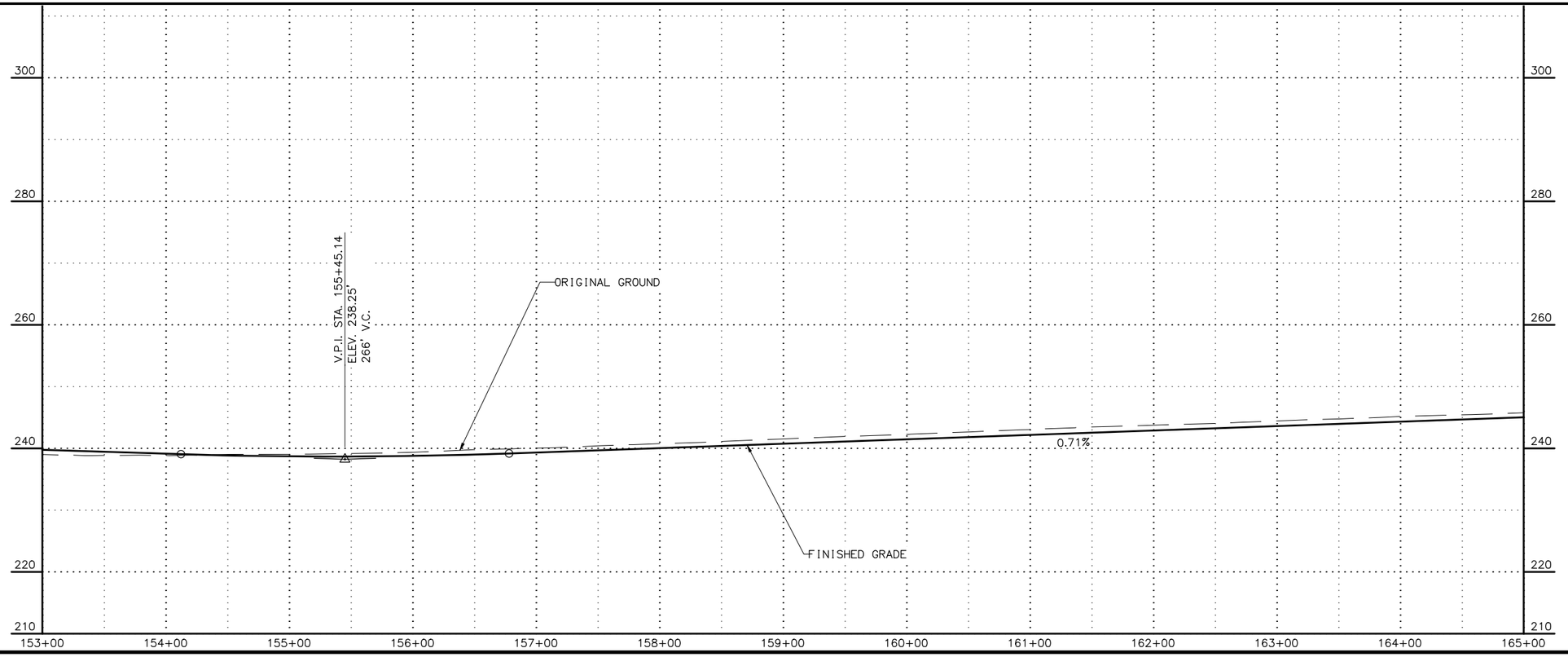
PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PLAN AND PROFILE STA 141+00 TO STA 153+00



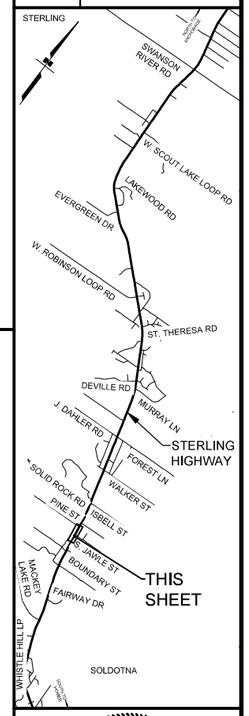


SHEET NO.	TOTAL SHEETS
F12	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR FINAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PLAN AND PROFILE
STA 153+00 TO STA 165+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE TIME
6/26/2025 9:17 AM

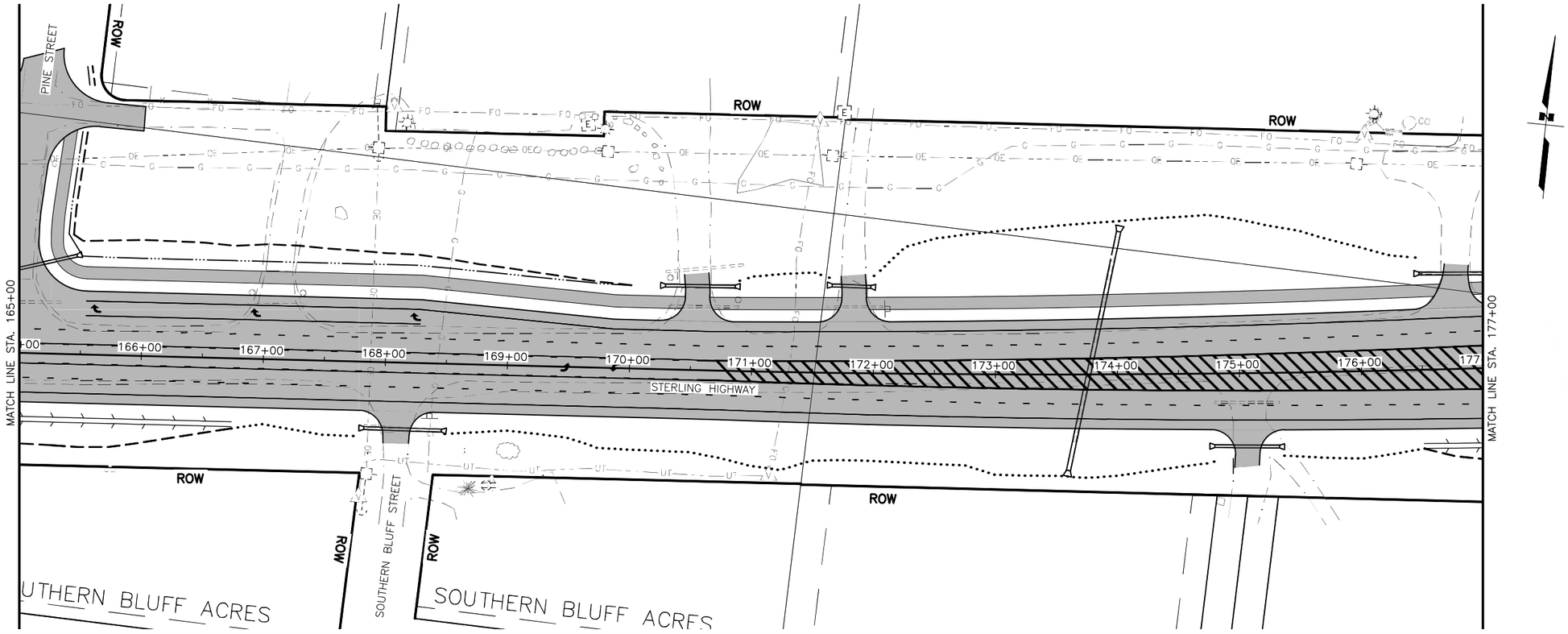
DRAWING LOCATION
C:\DOWL_PW\D0417420\0130_PNP-1.DWG

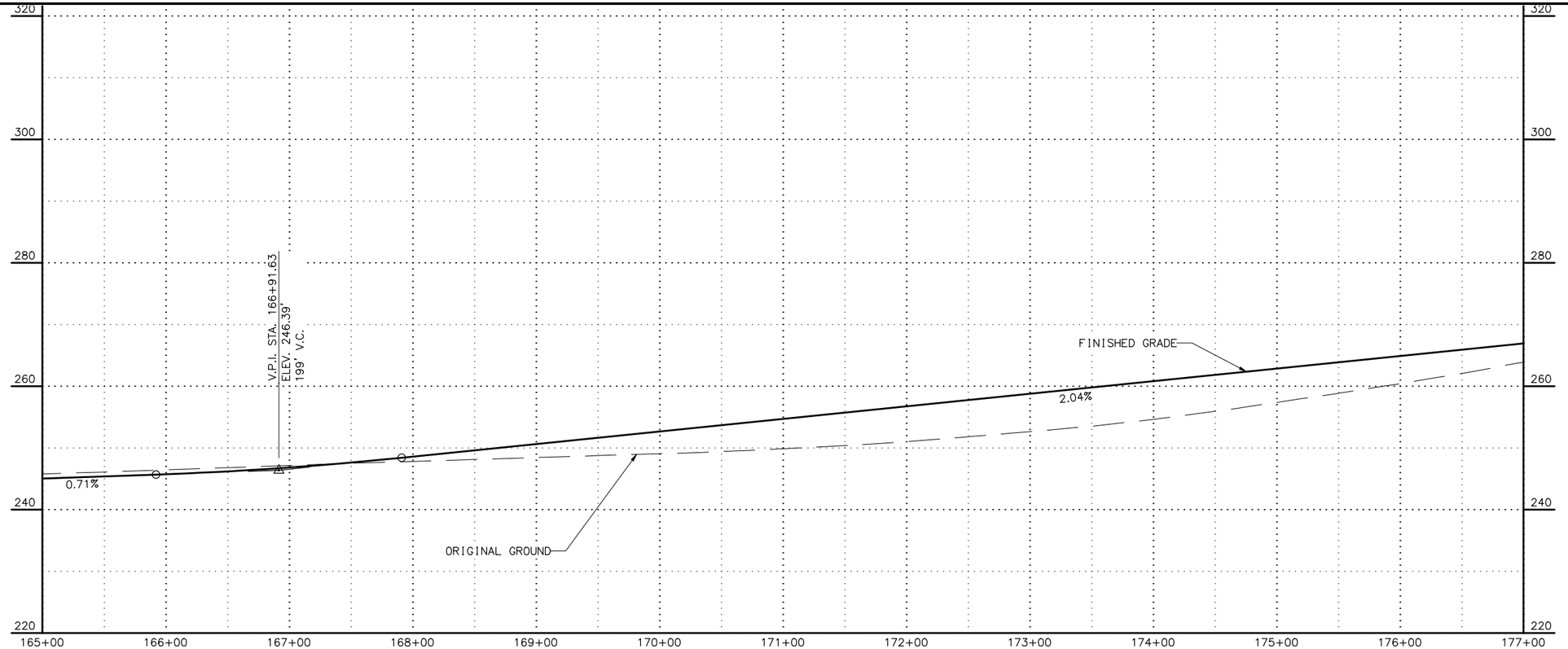
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:17 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

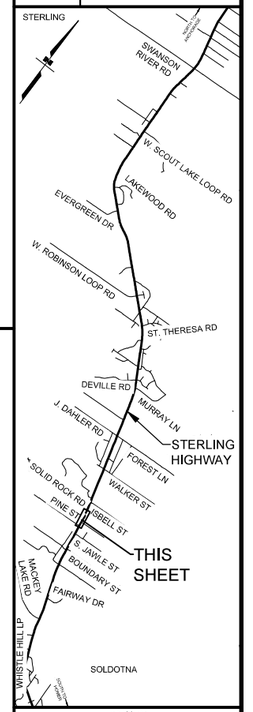




SHEET NO.	TOTAL SHEETS
F13	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4TH
PROJECT MANAGER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

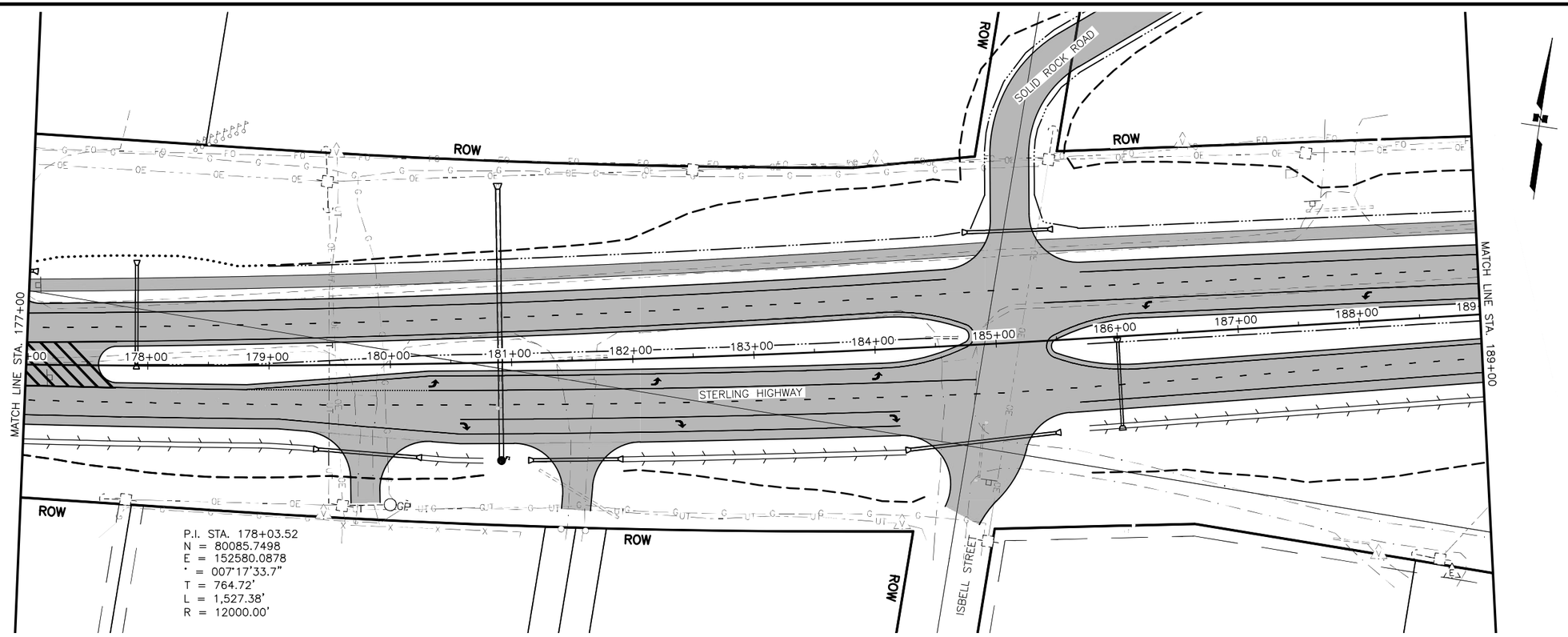
PLAN AND PROFILE STA 165+00 TO STA 177+00

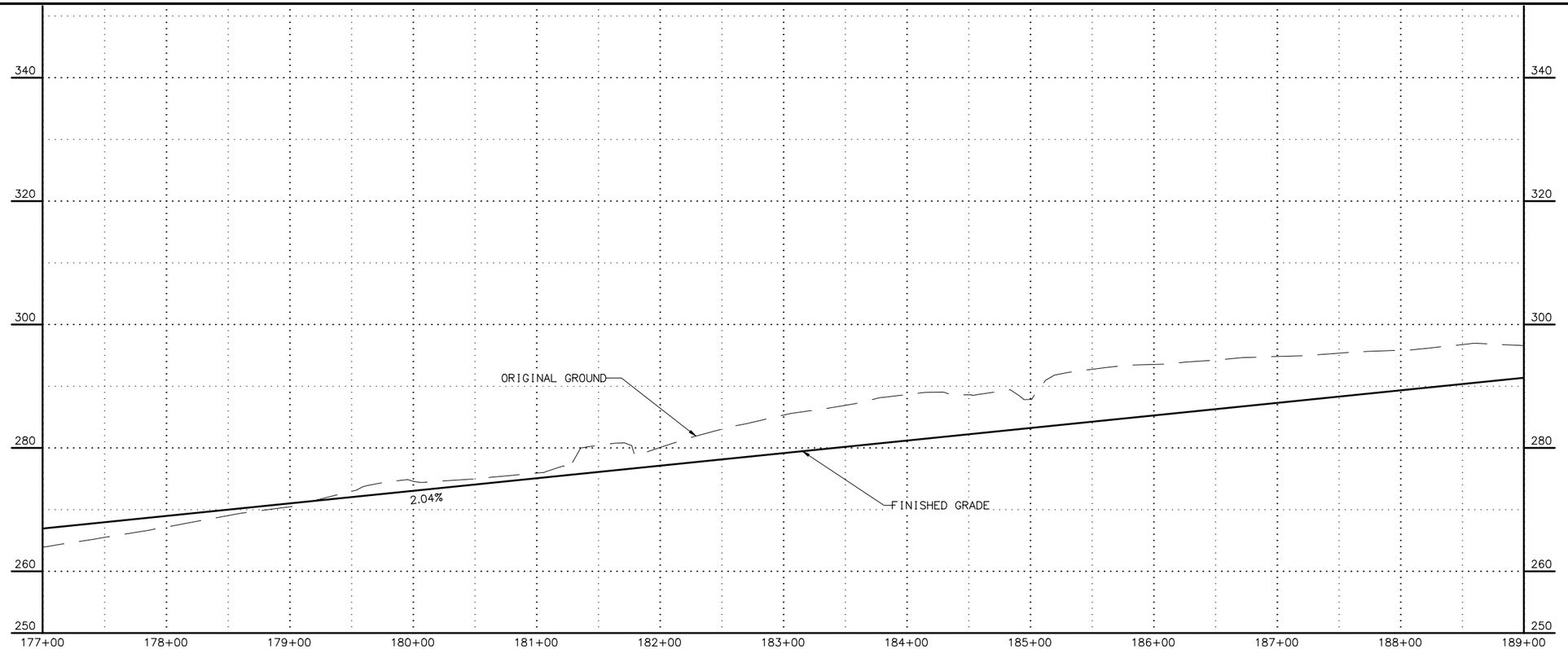
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:18 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

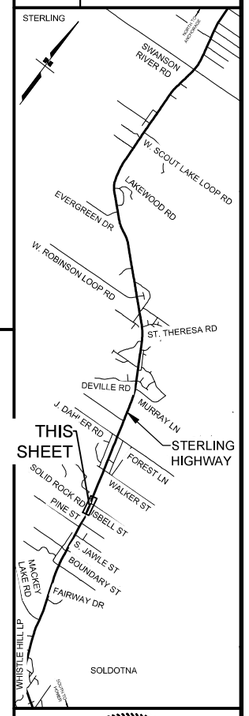




SHEET NO.	TOTAL SHEETS
F14	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

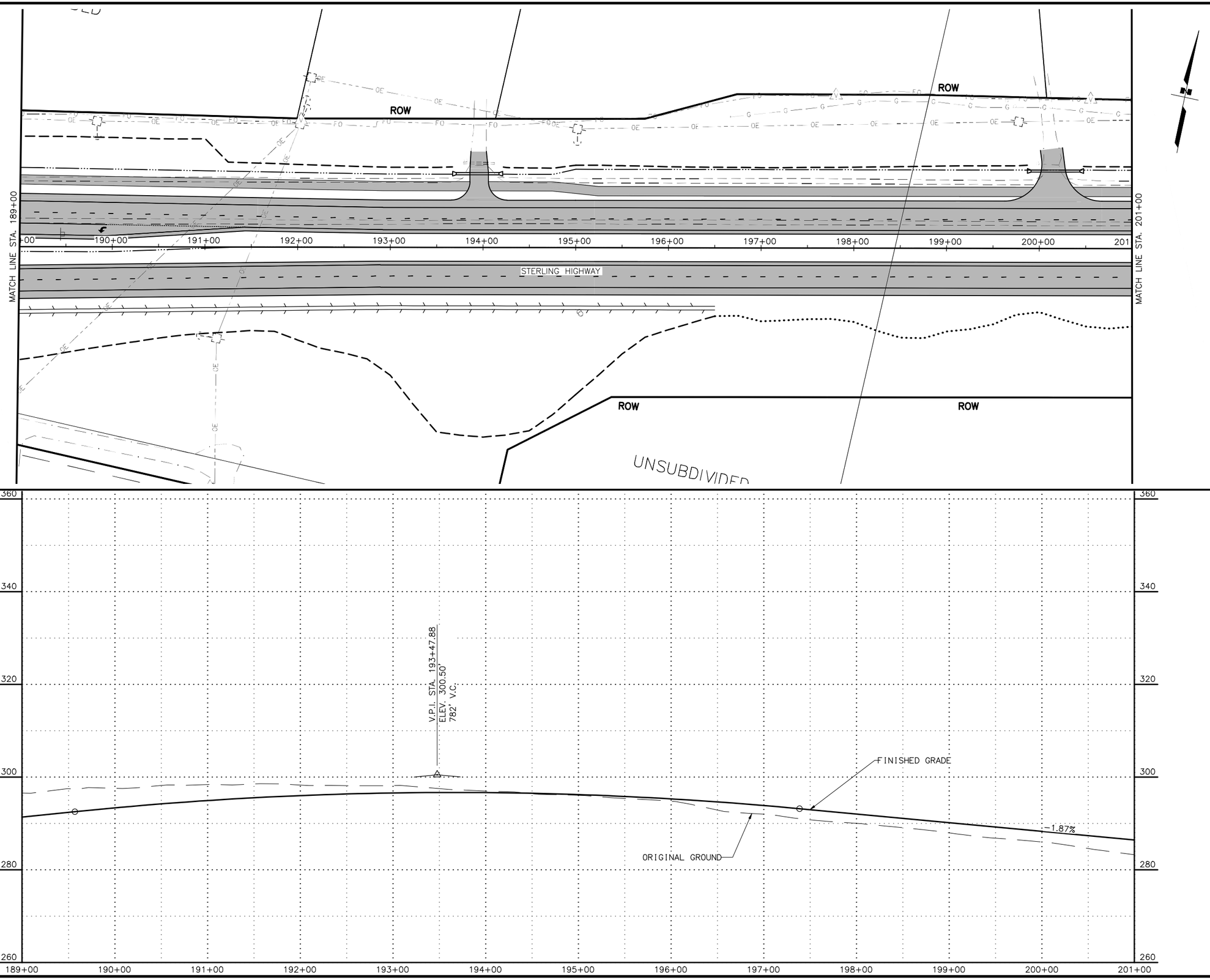
PLAN AND PROFILE STA 177+00 TO STA 189+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:18 AM

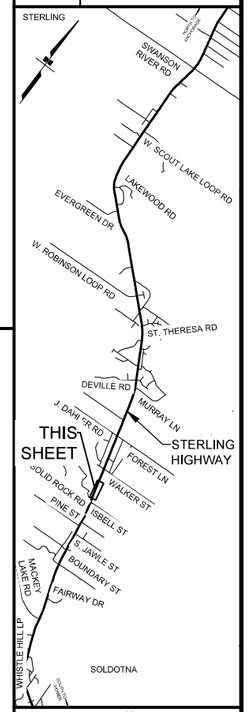
DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG



SHEET NO.	TOTAL SHEETS
F15	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4TH
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

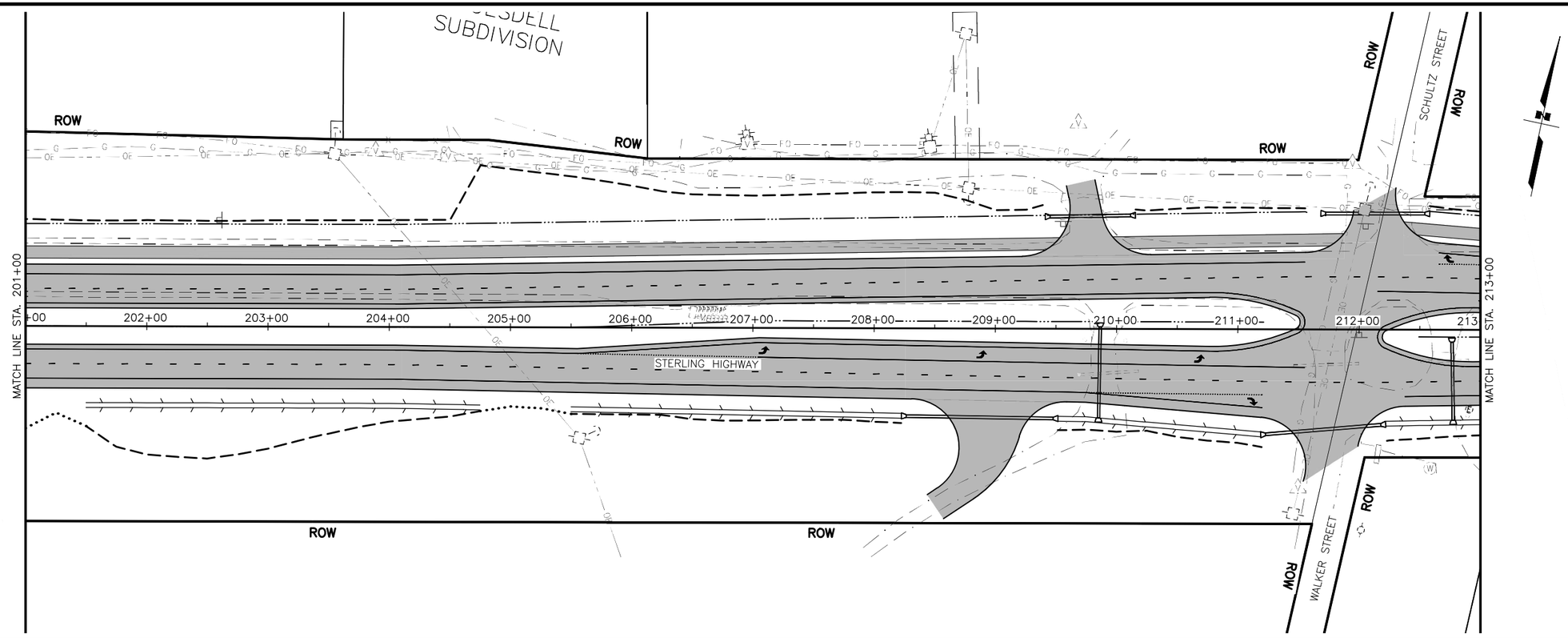
PLAN AND PROFILE STA 189+00 TO STA 201+00

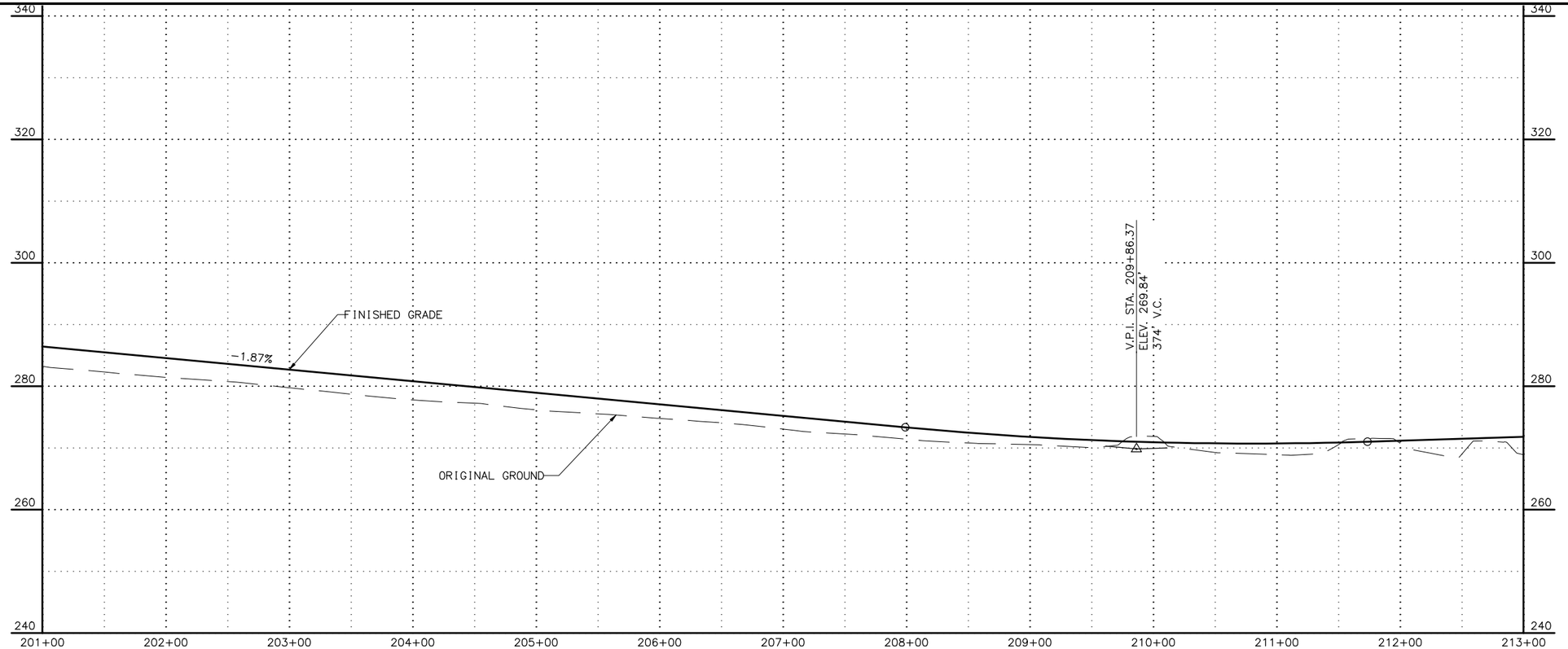
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:18 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

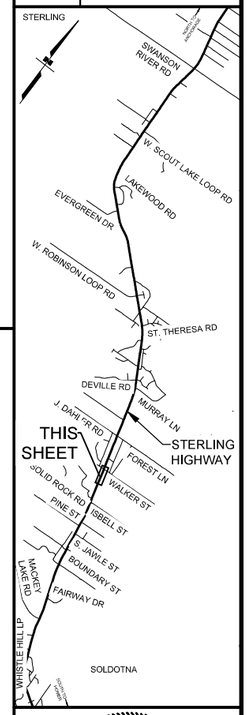




SHEET NO.	TOTAL SHEETS
F16	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4TH
PROJECT MANAGER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

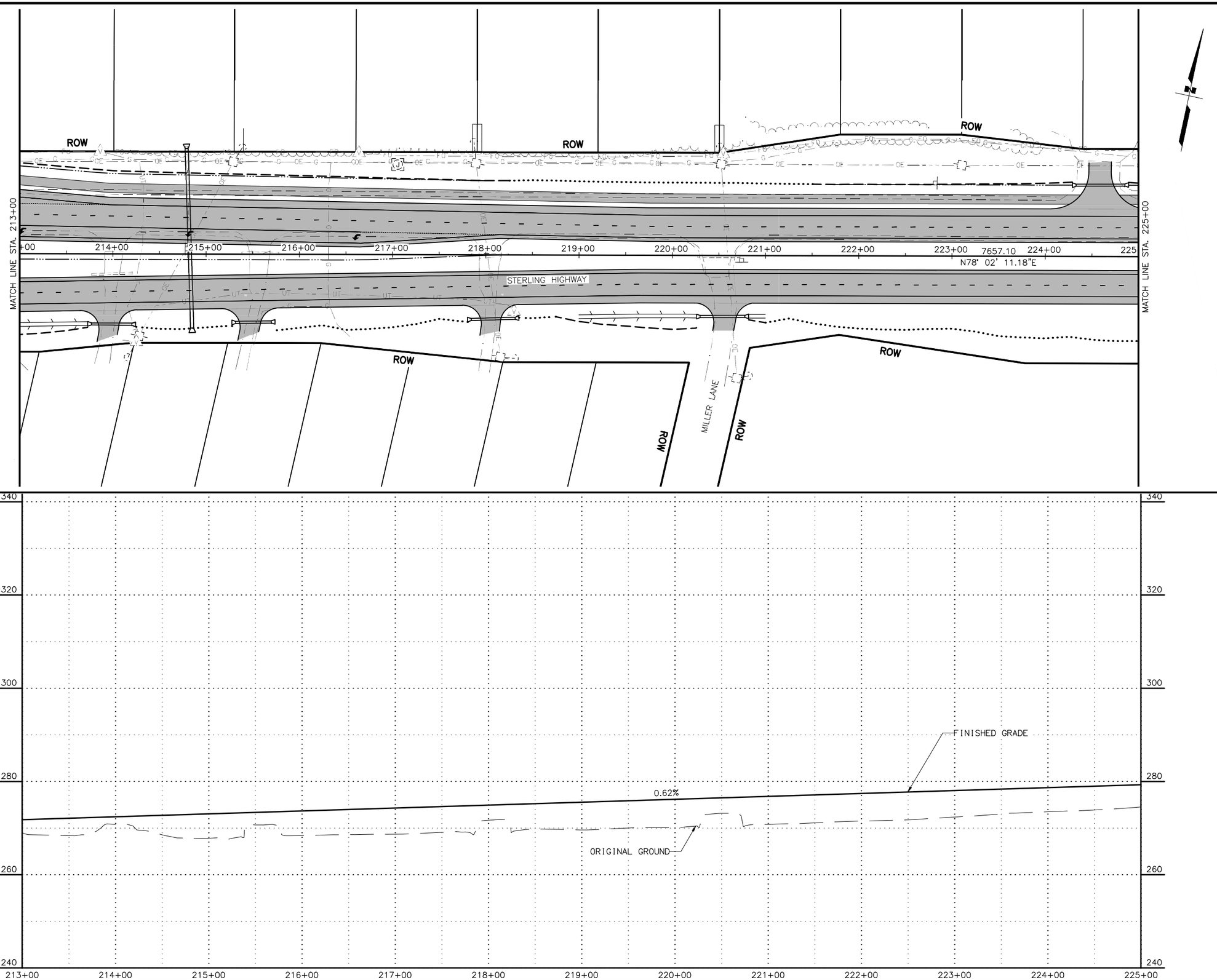
PLAN AND PROFILE STA 201+00 TO STA 213+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:18 AM

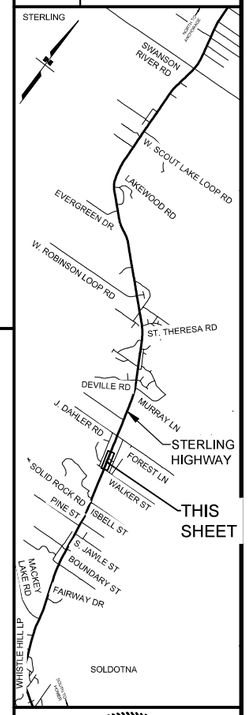
DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG



SHEET NO.	TOTAL SHEETS
F17	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4 OCT 2025
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

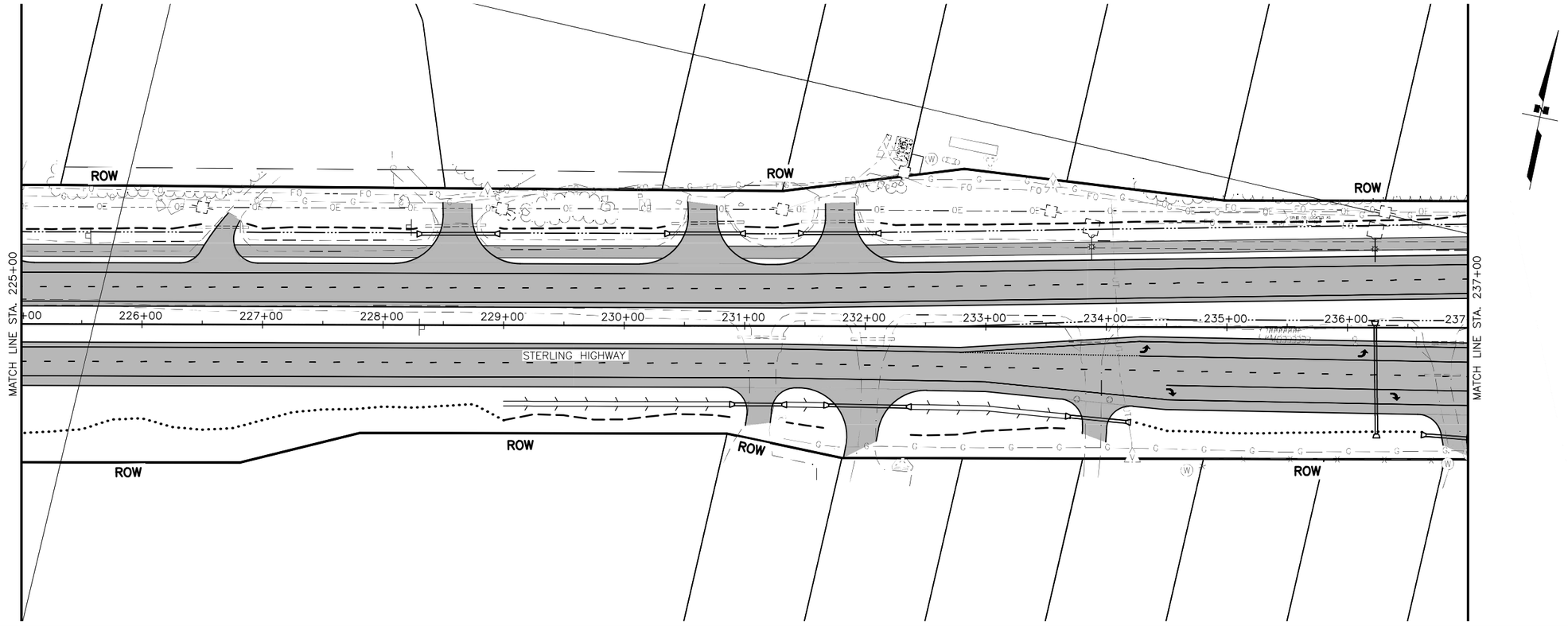
PLAN AND PROFILE STA 213+00 TO STA 225+00

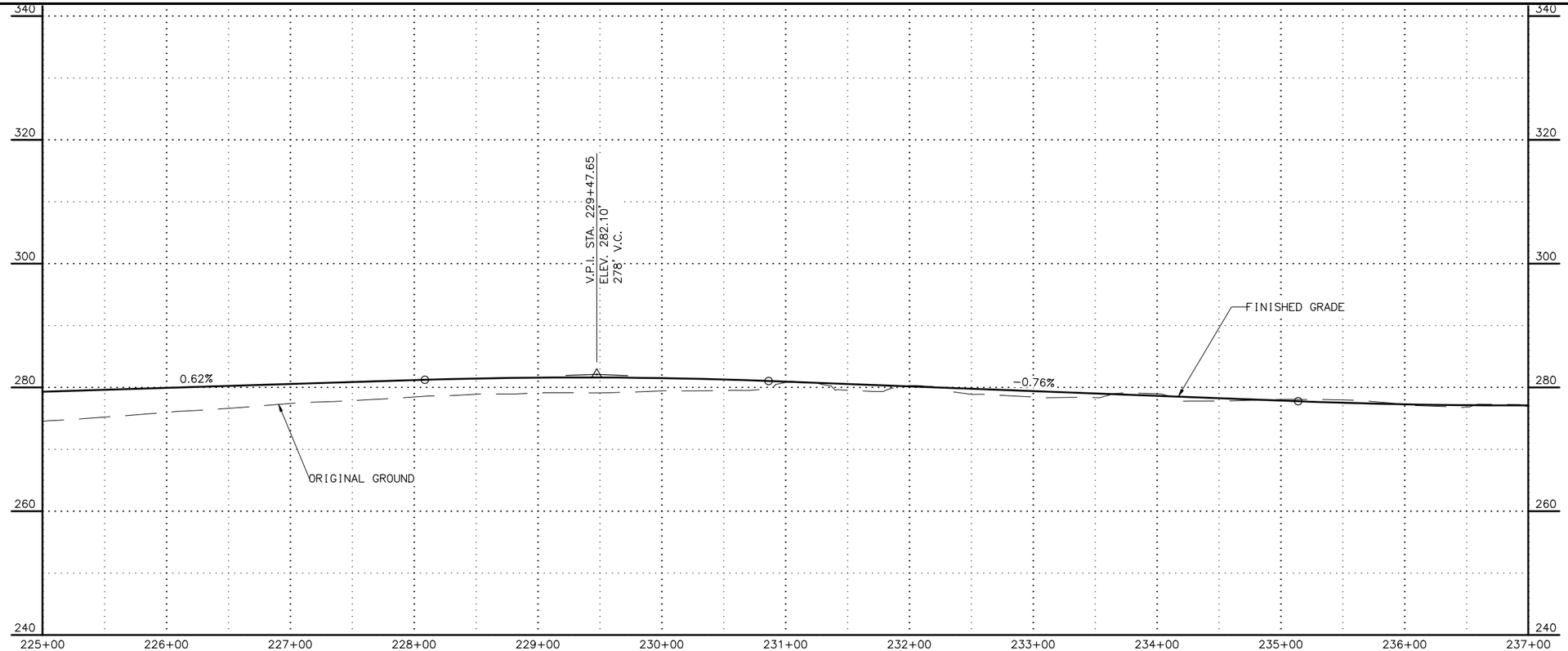
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:19 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

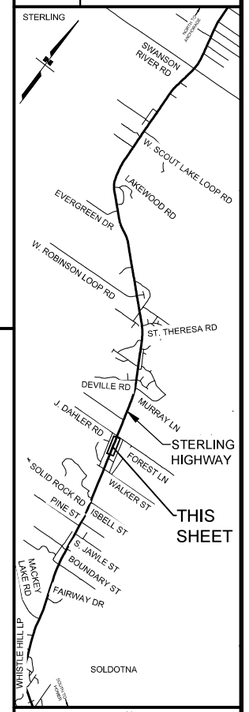




SHEET NO.	TOTAL SHEETS
F18	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT MANAGER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

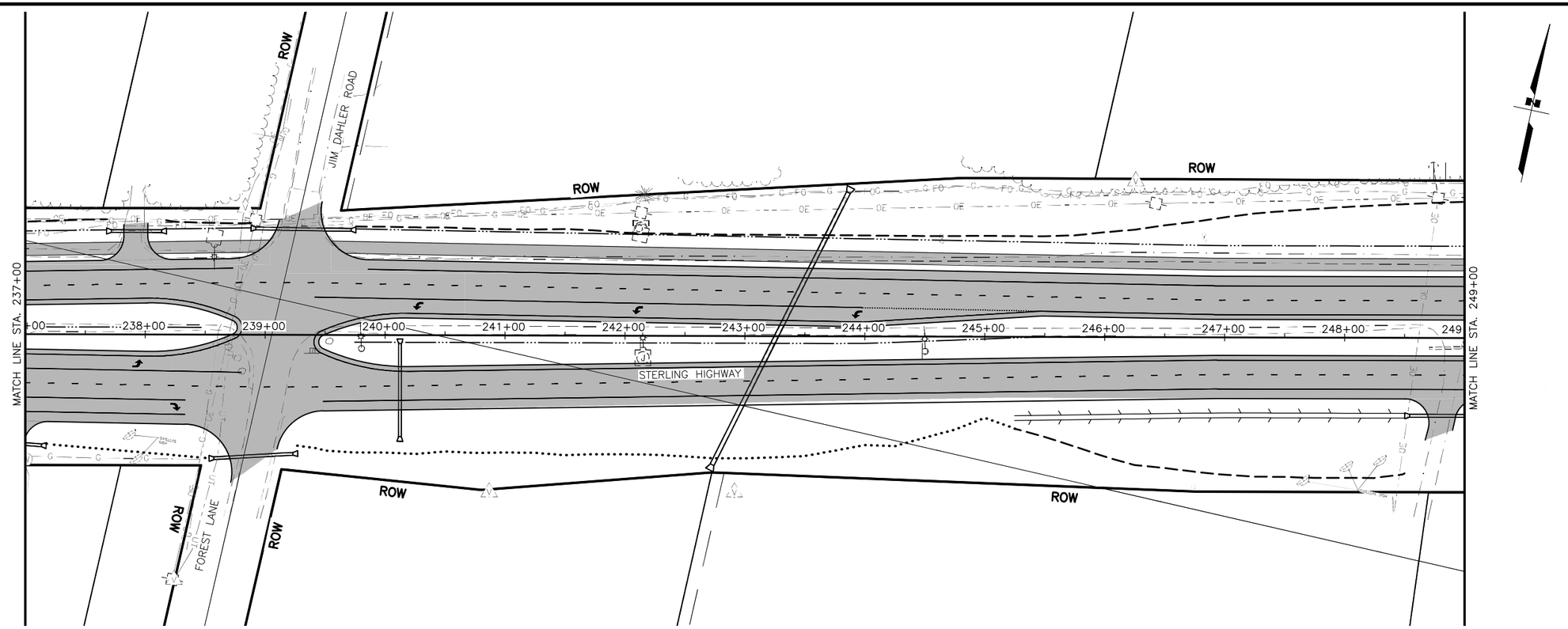
PLAN AND PROFILE STA 225+00 TO STA 237+00

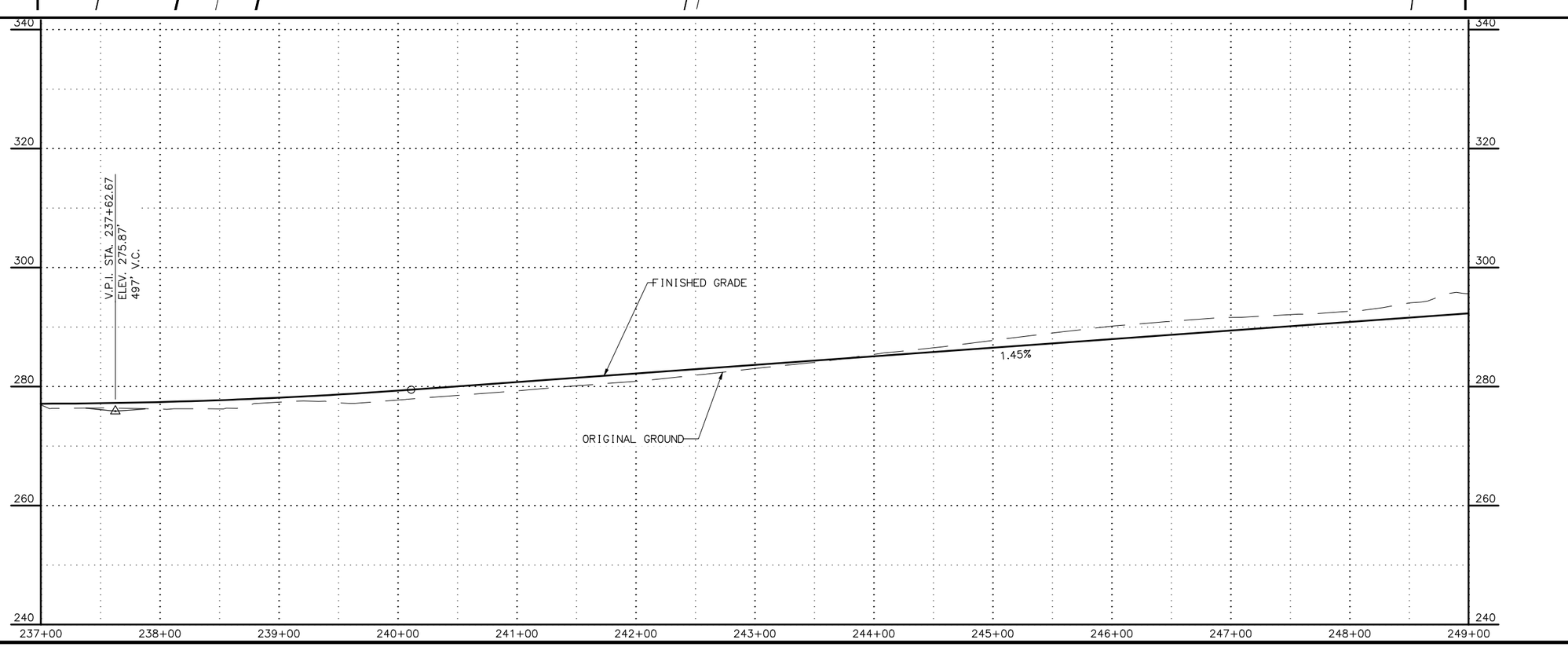
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:19 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG



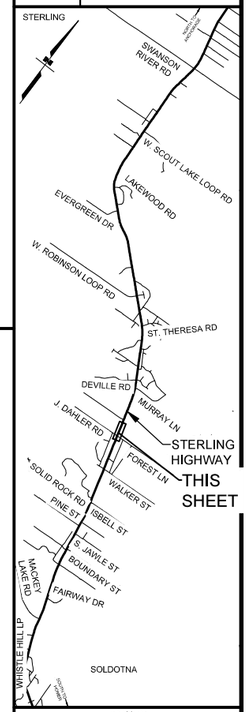


SHEET NO.	TOTAL SHEETS
F19	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER

LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

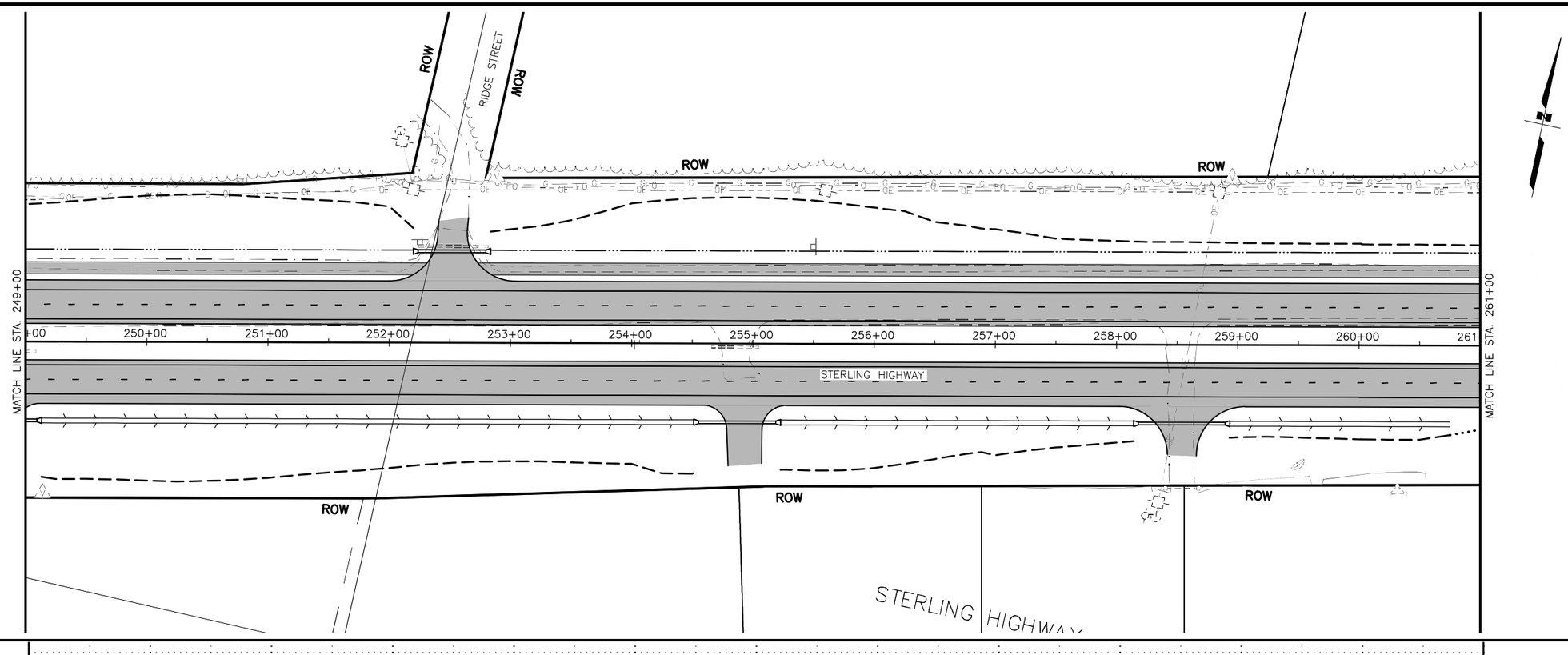
PLAN AND PROFILE STA 237+00 TO STA 249+00

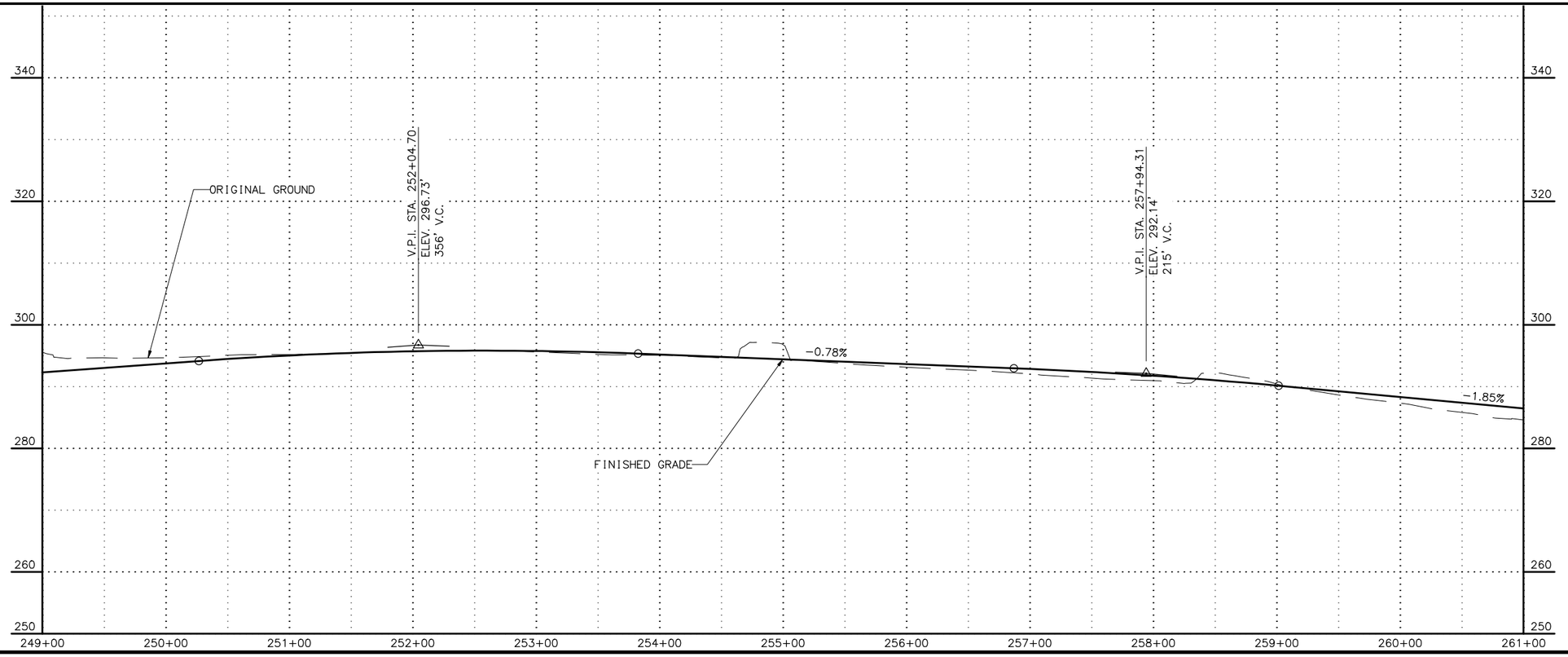
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:19 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

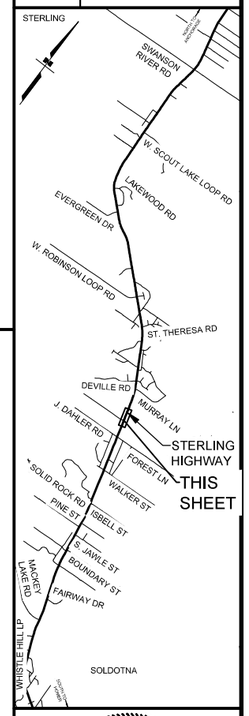




SHEET NO.	TOTAL SHEETS
F20	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

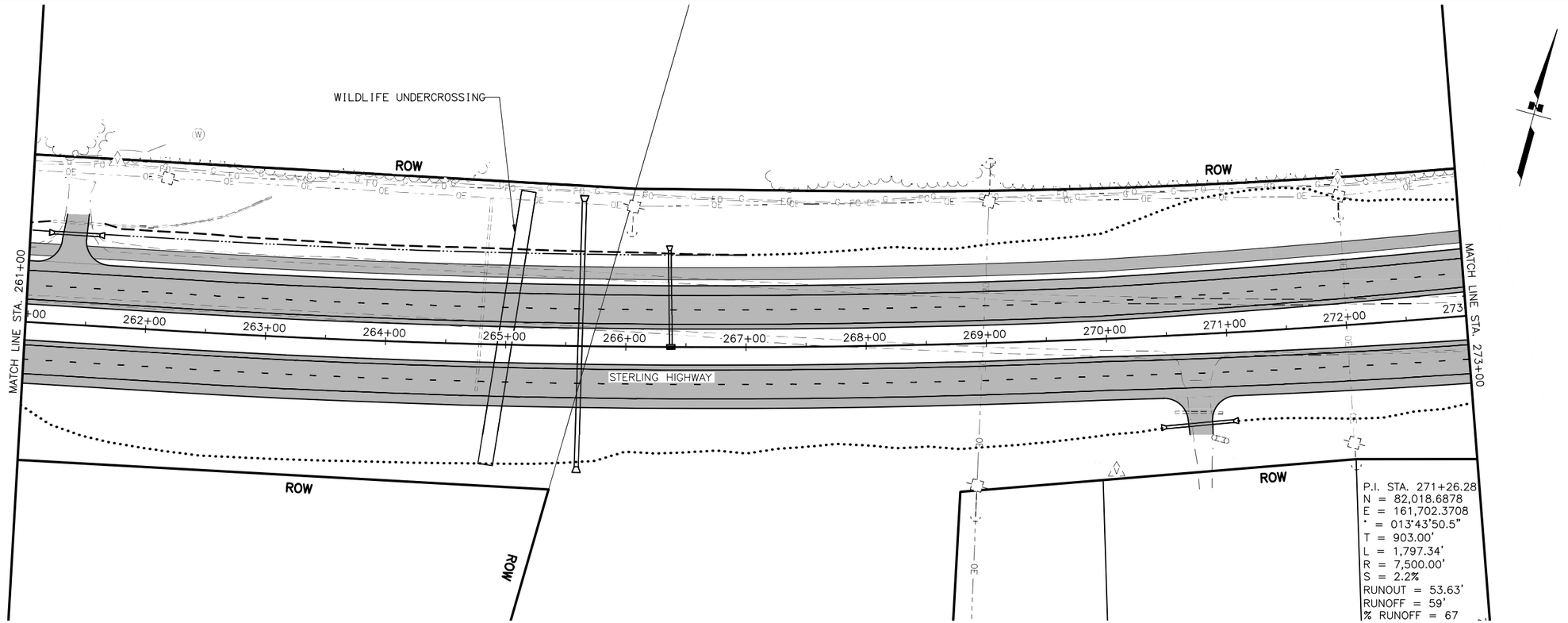
PLAN AND PROFILE STA 249+00 TO STA 261+00

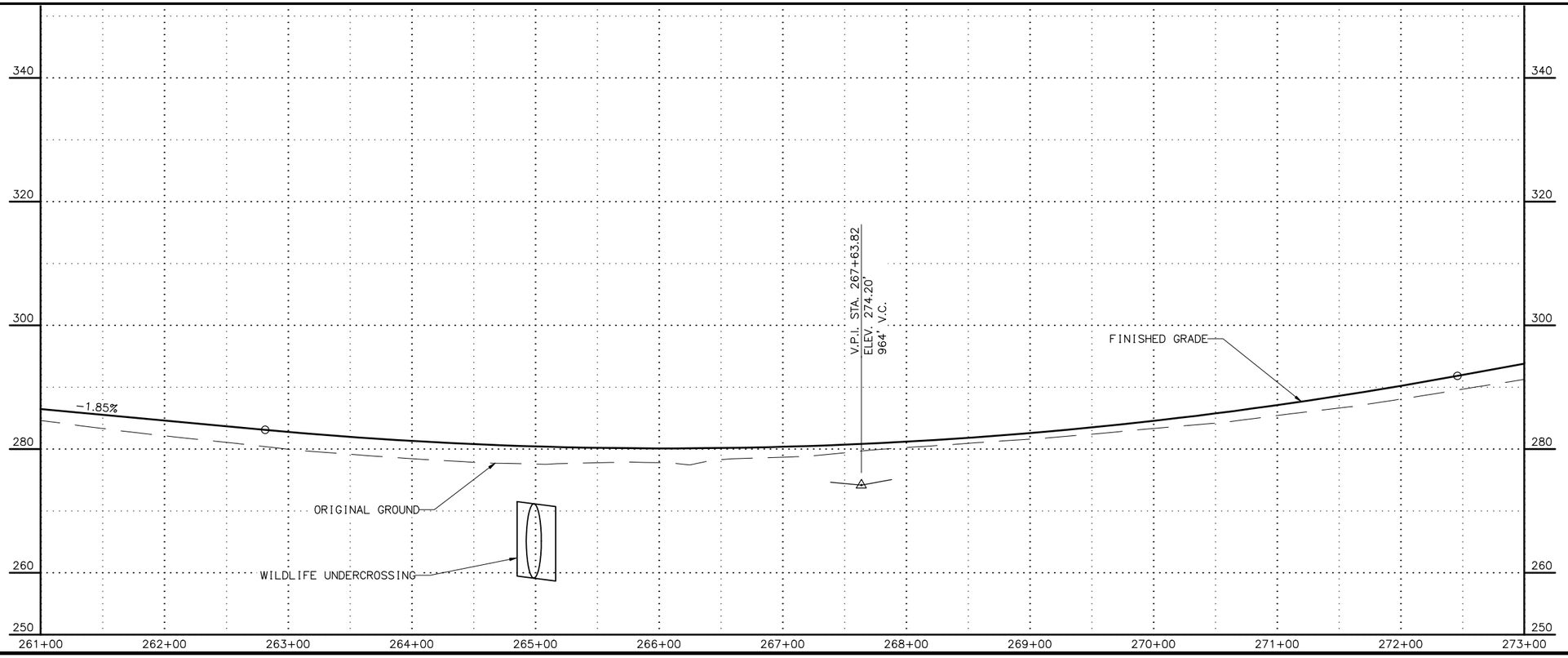
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:19 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

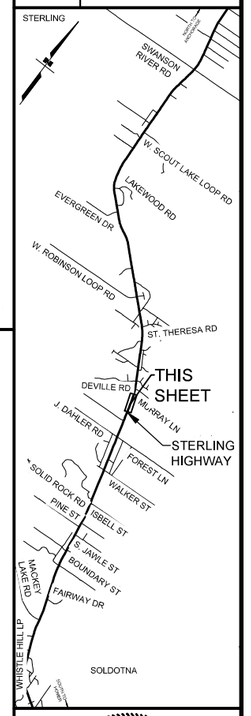




SHEET NO.	TOTAL SHEETS
F21	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

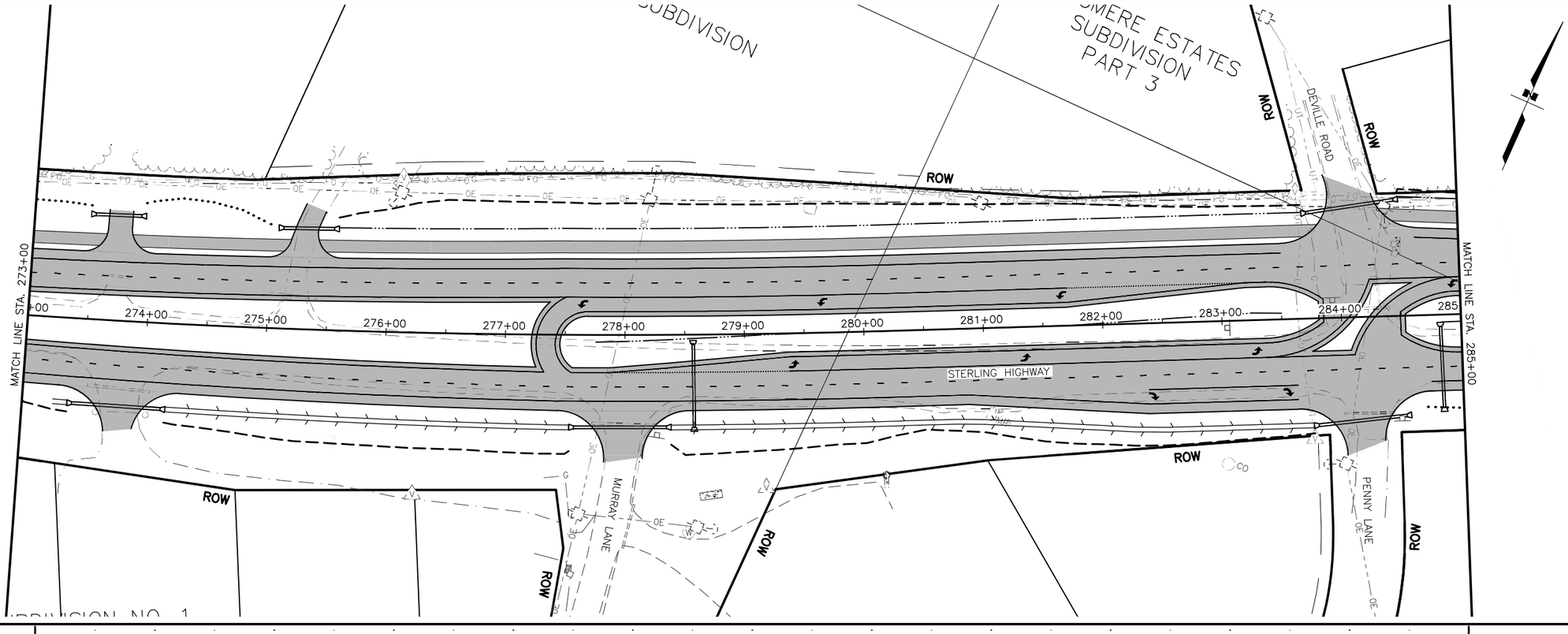
PLAN AND PROFILE STA 261+00 TO STA 273+00

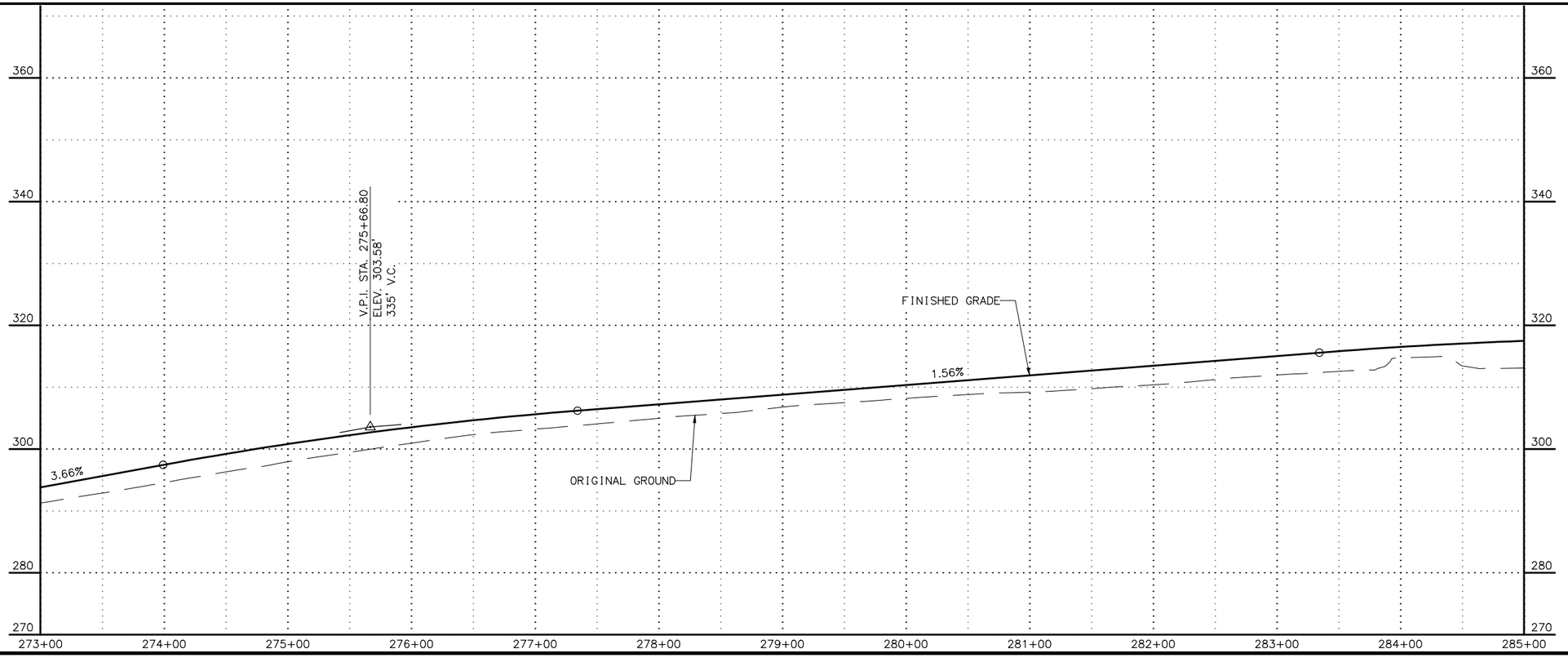
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:20 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-1.DWG

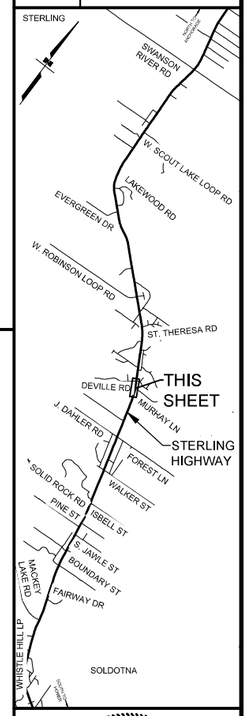




SHEET NO.	TOTAL SHEETS
F22	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

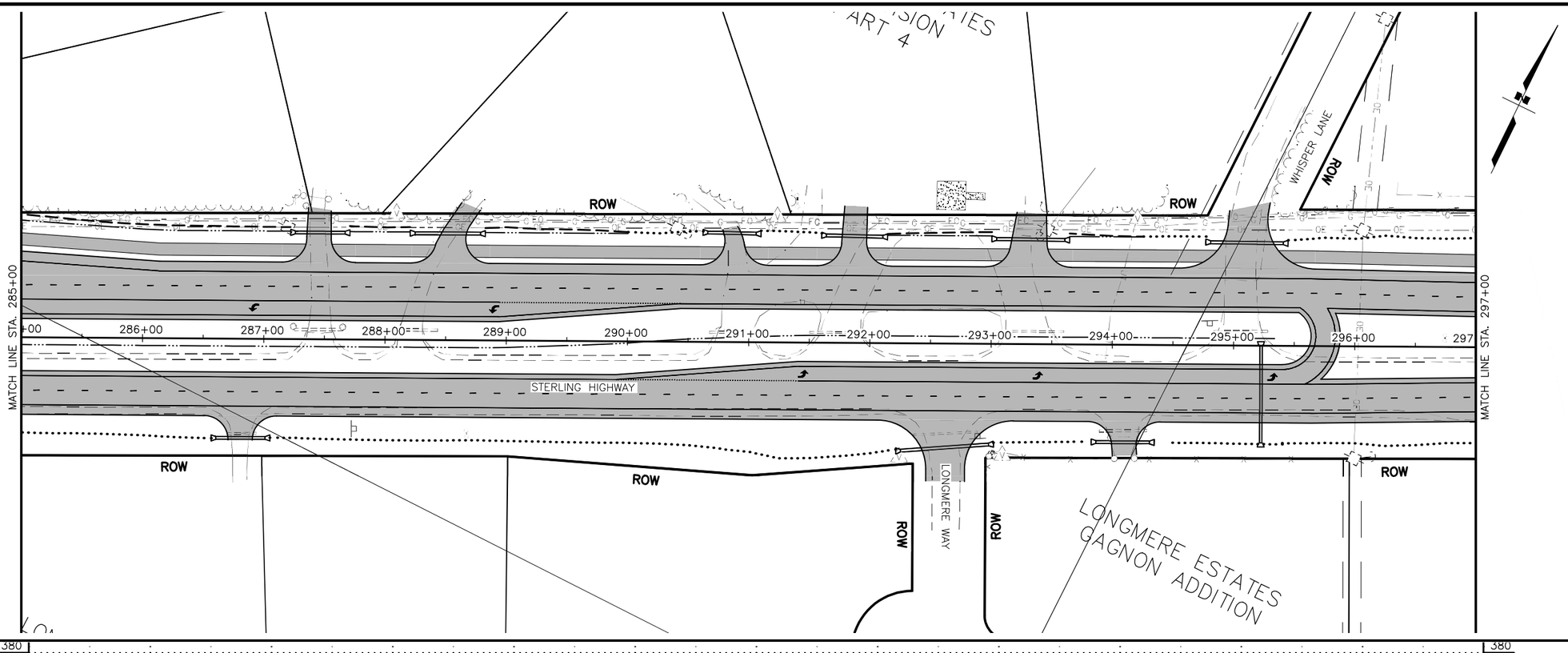
PLAN AND PROFILE STA 273+00 TO STA 285+00

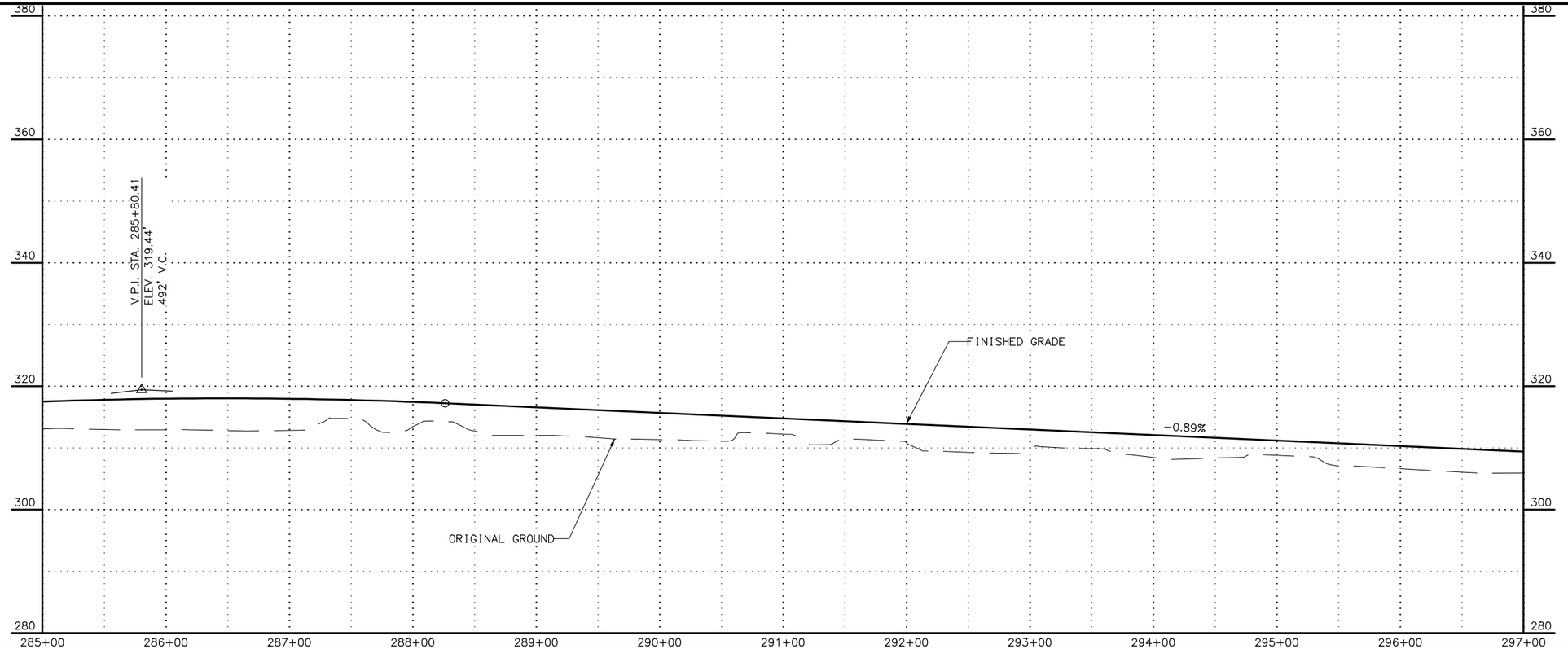
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:20 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

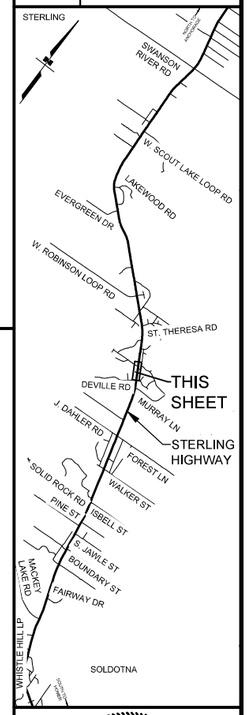




SHEET NO.	TOTAL SHEETS
F23	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PLAN AND PROFILE STA 285+00 TO STA 297+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

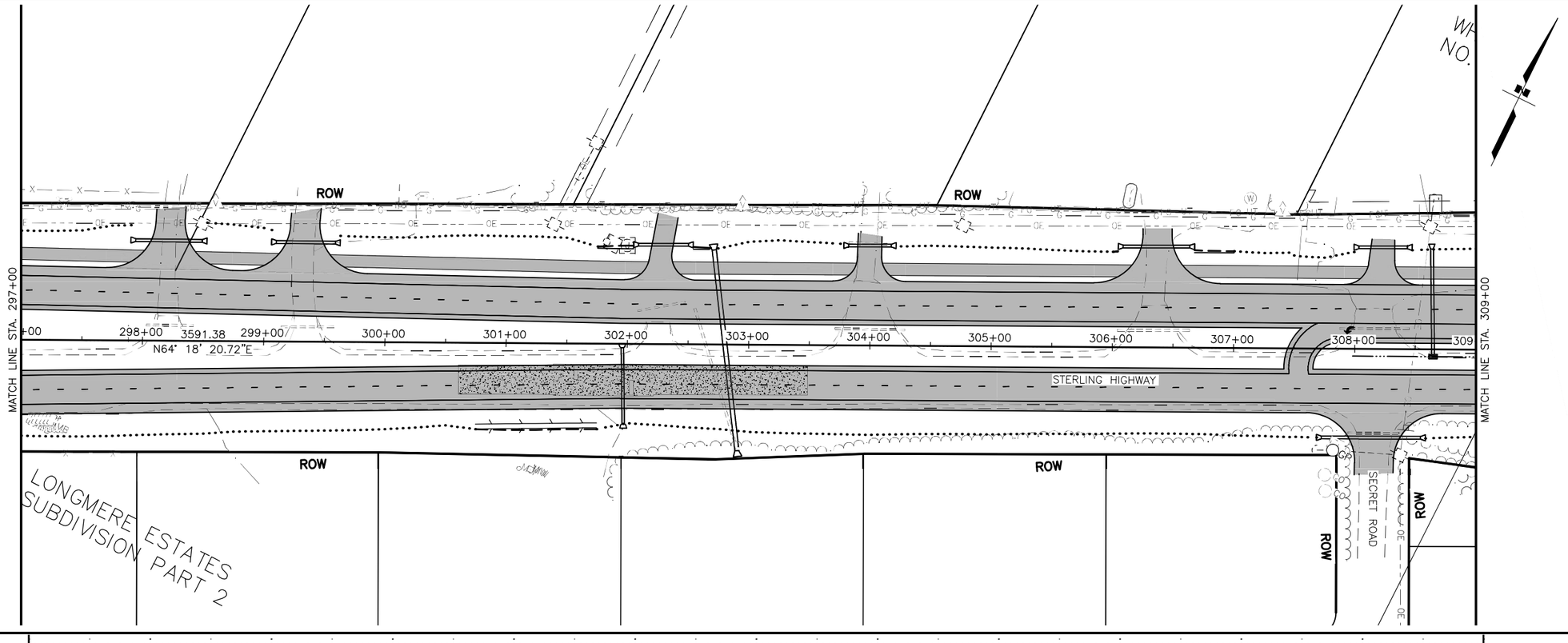
DATE 6/26/2025 TIME 9:20 AM

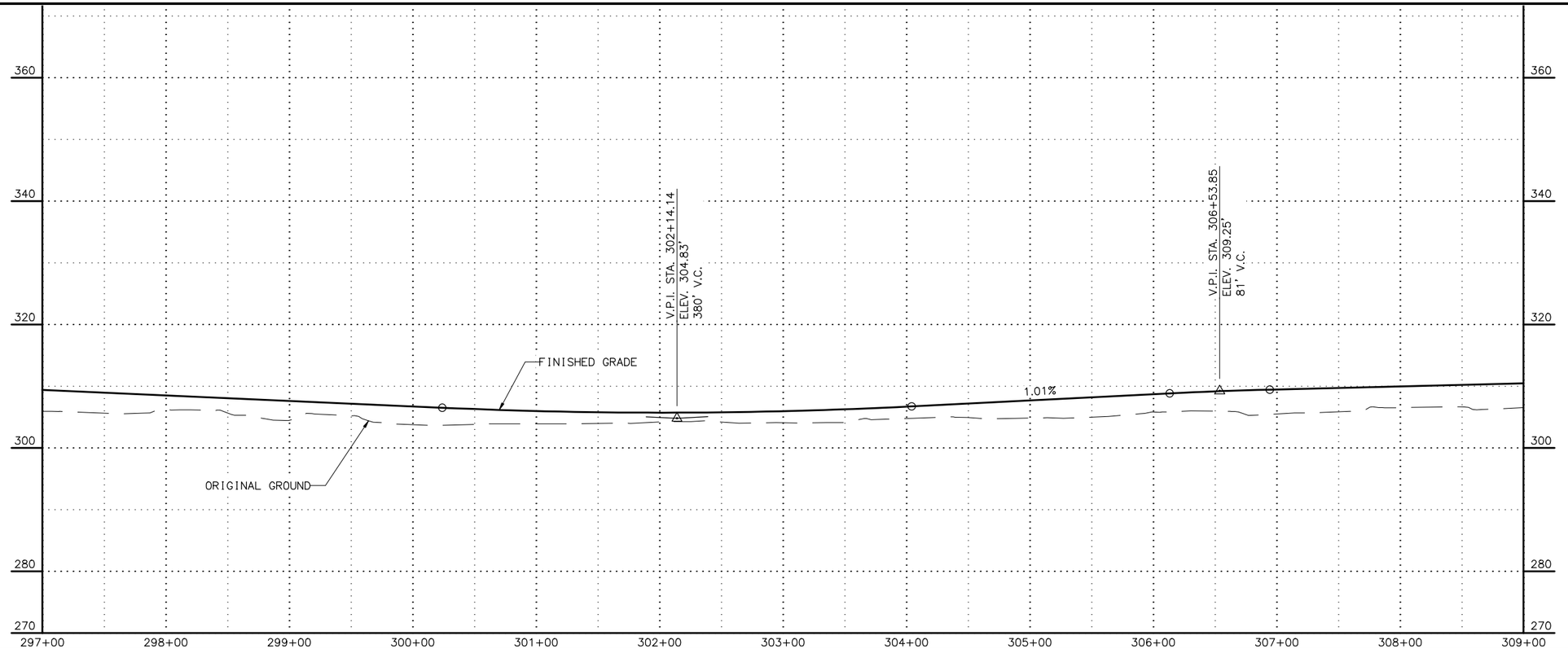
DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

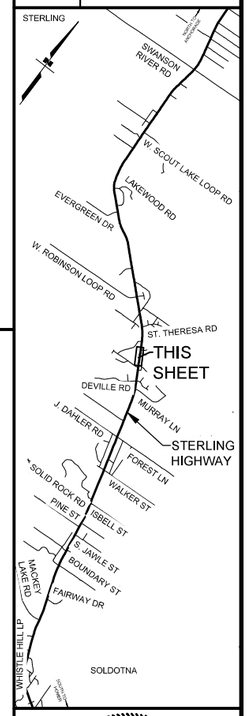
SHEET NO.	TOTAL SHEETS
F24	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	







STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR FINAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

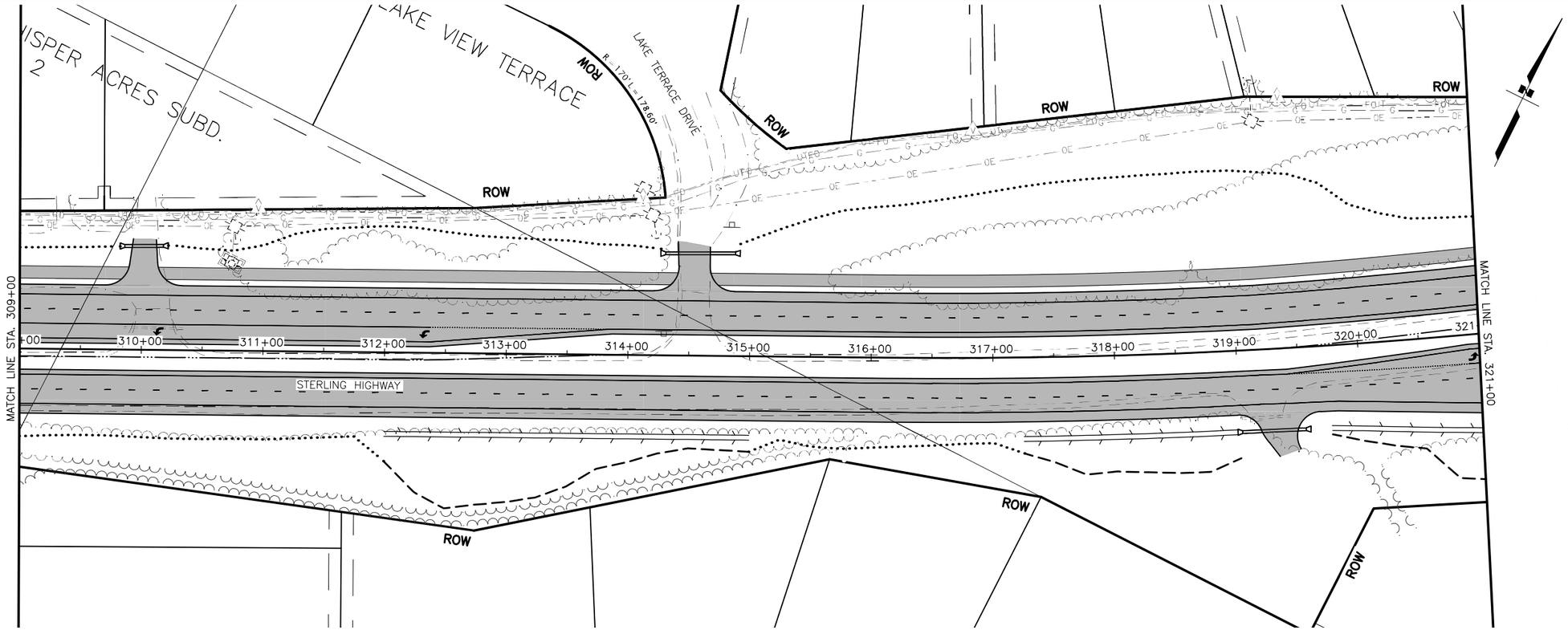
PLAN AND PROFILE STA 297+00 TO STA 309+00

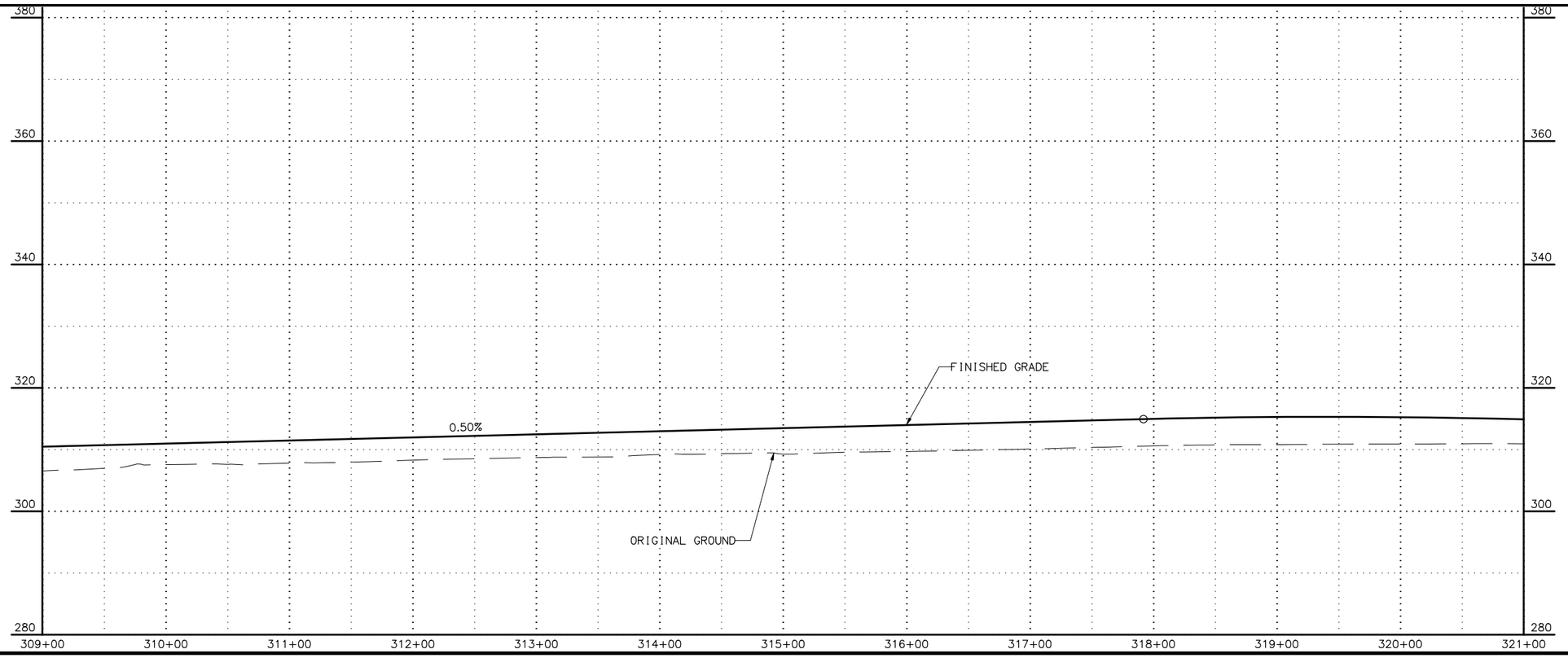
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 9:20 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-1.DWG

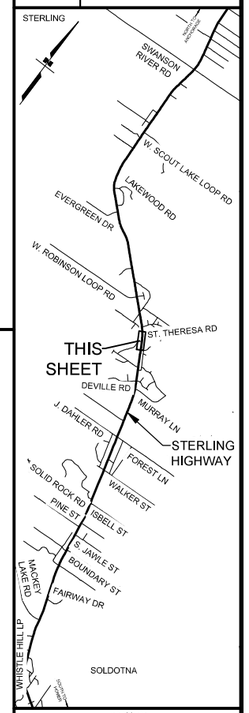




SHEET NO.	TOTAL SHEETS
F25	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
JOSH PETERSON
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

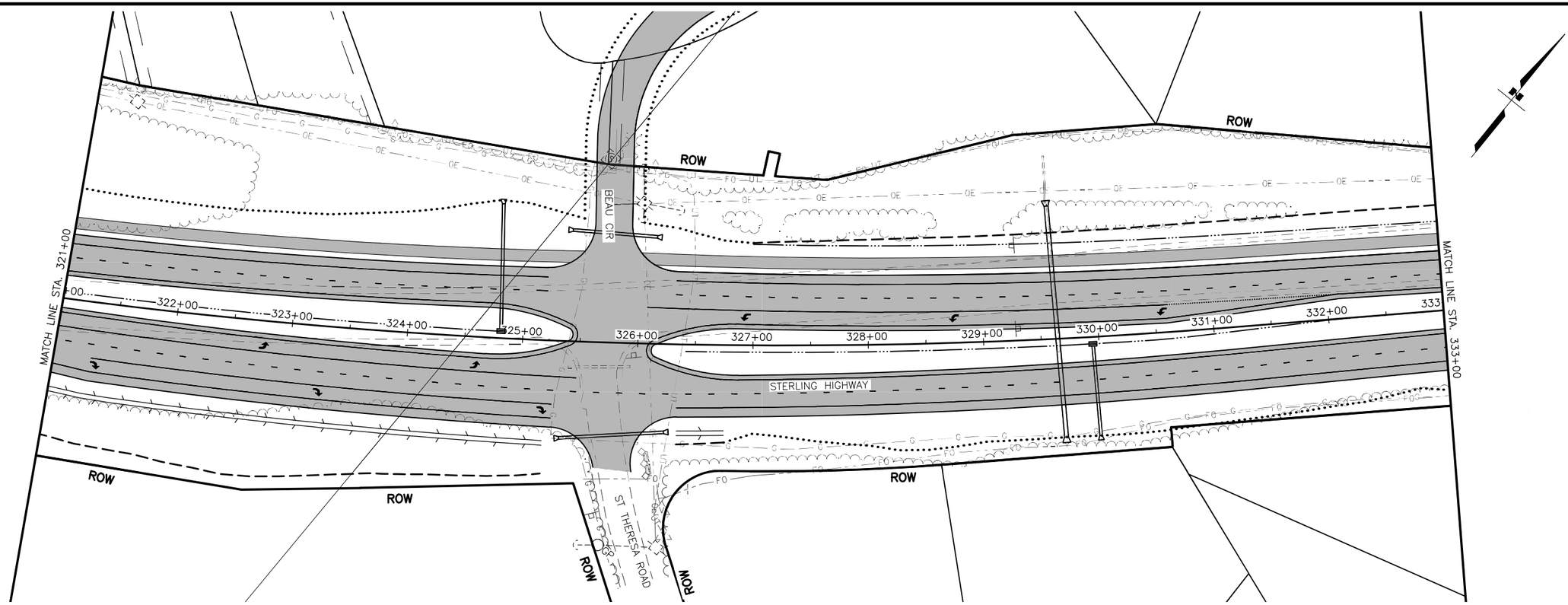
PLAN AND PROFILE STA 309+00 TO STA 321+00

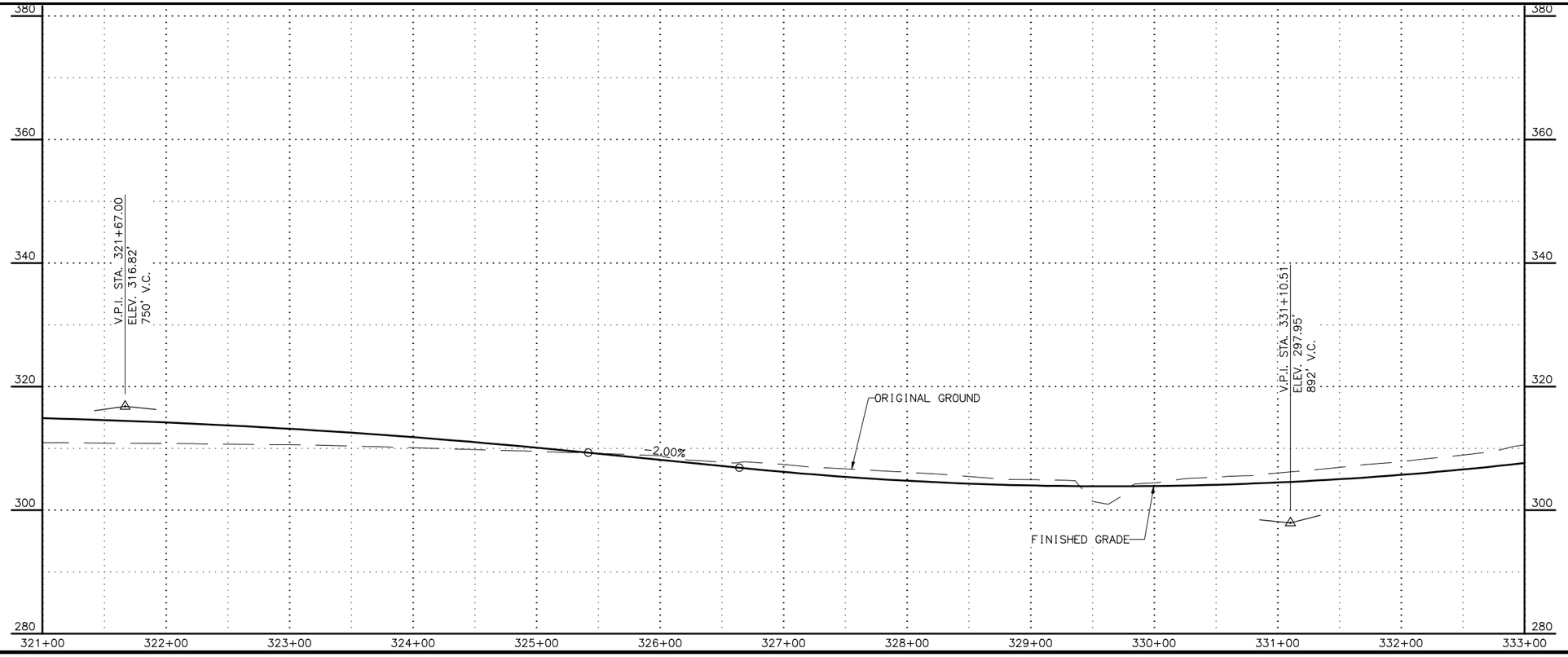
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:47 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-2.DWG

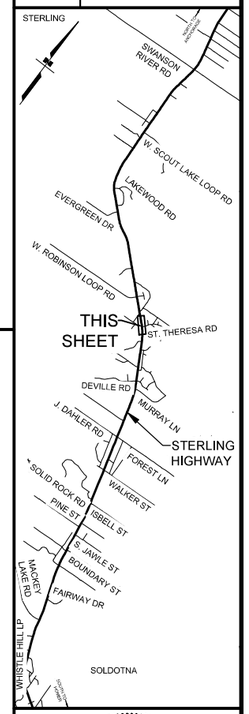




SHEET NO.	TOTAL SHEETS
F26	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

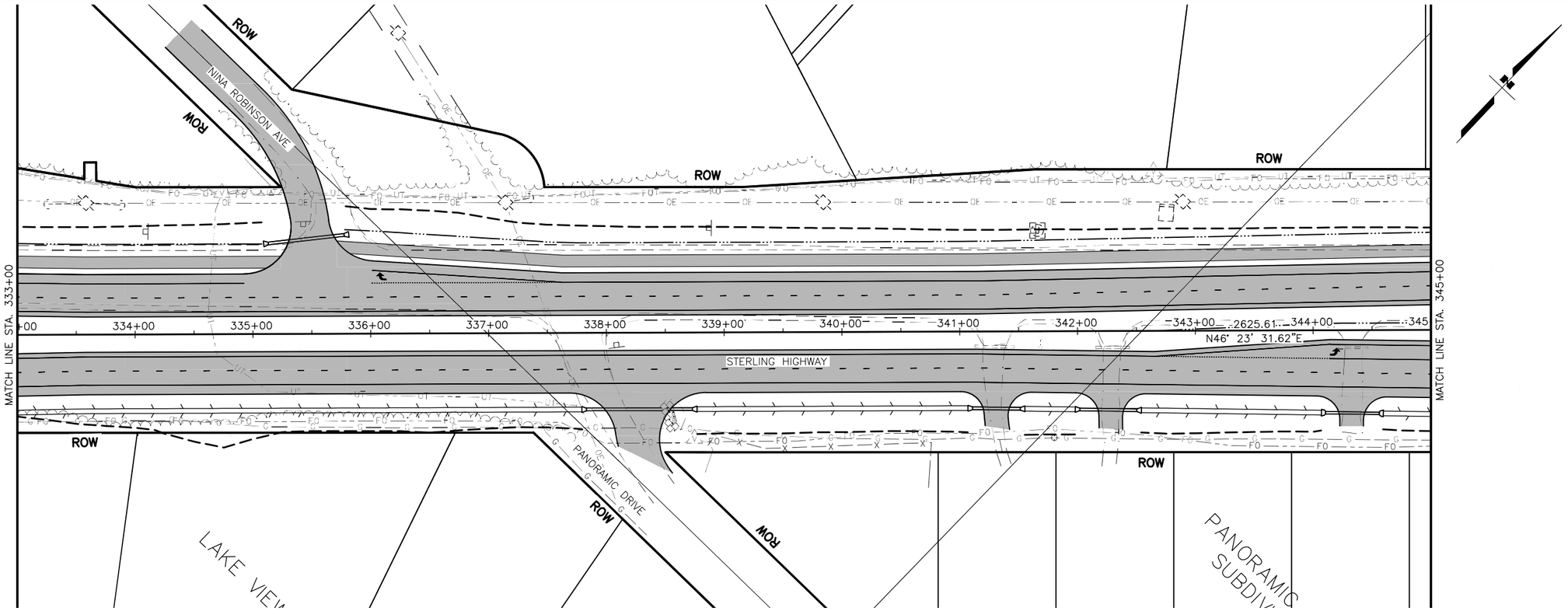
PLAN AND PROFILE STA 321+00 TO STA 333+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:47 AM

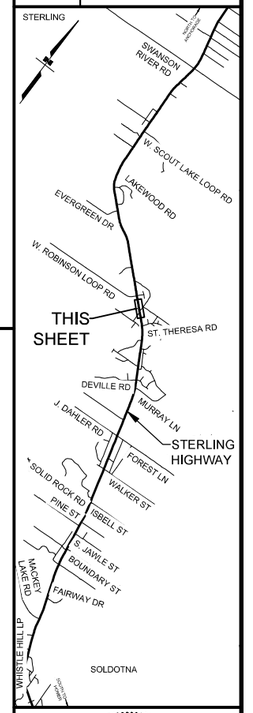
DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP_2.DWG



SHEET NO.	TOTAL SHEETS
F27	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

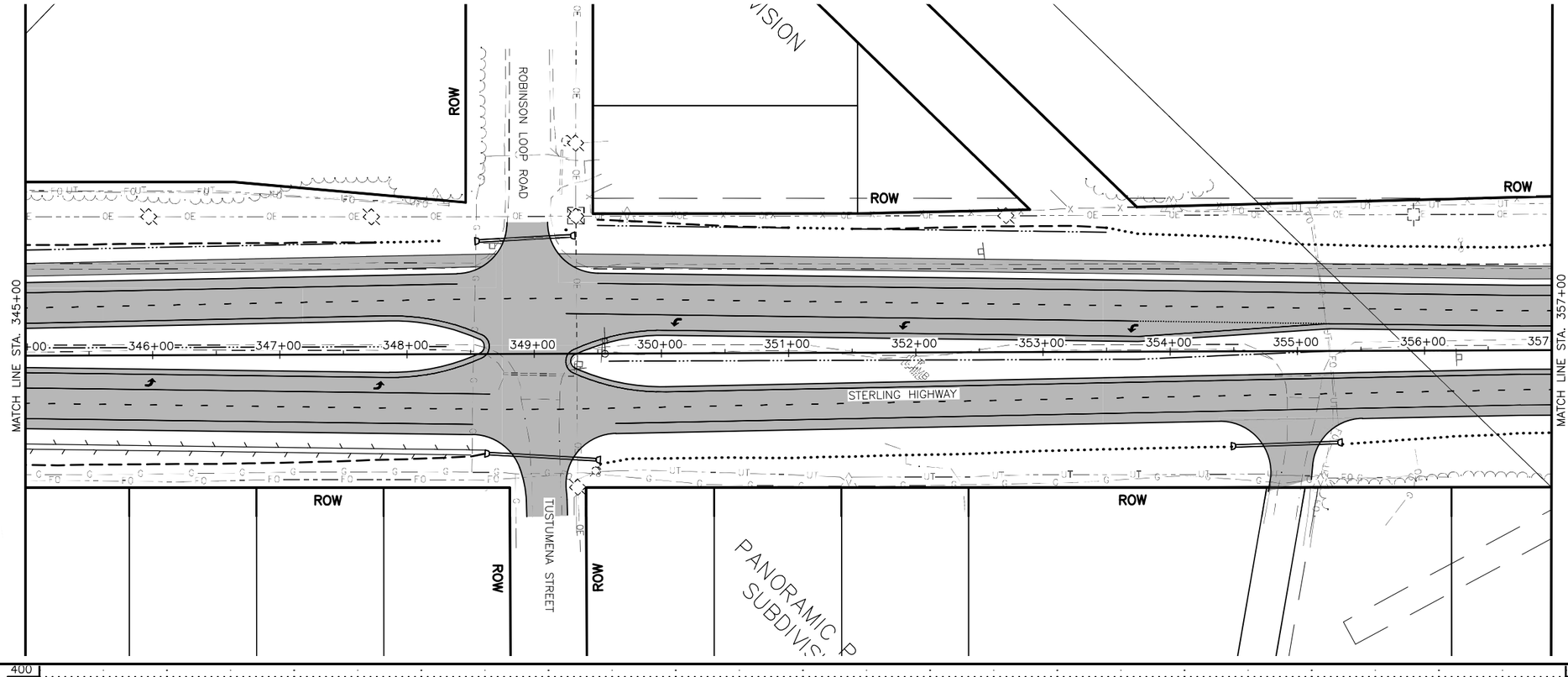
PLAN AND PROFILE STA 333+00 TO STA 345+00

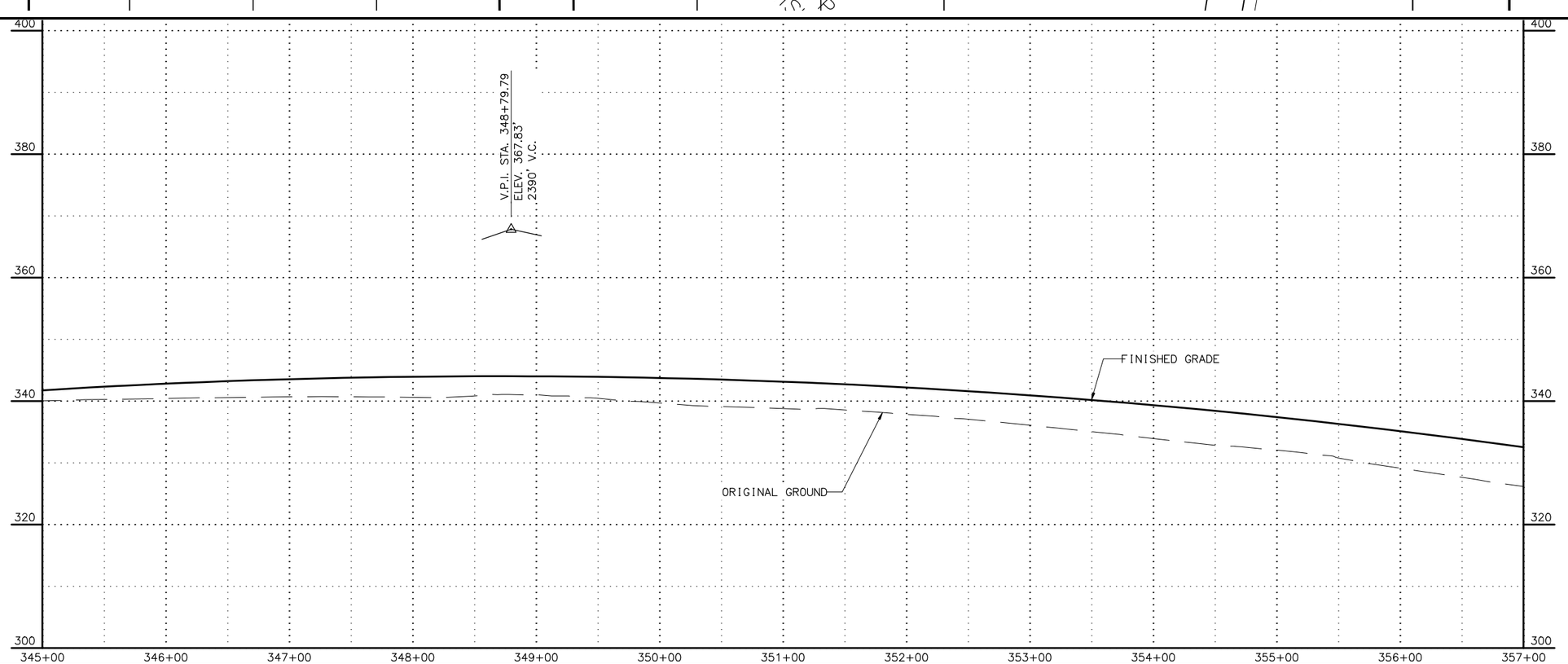
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:48 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-2.DWG

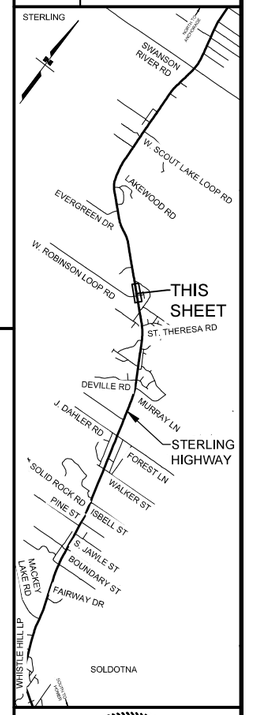




SHEET NO.	TOTAL SHEETS
F28	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4 OCTOBER 2025
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

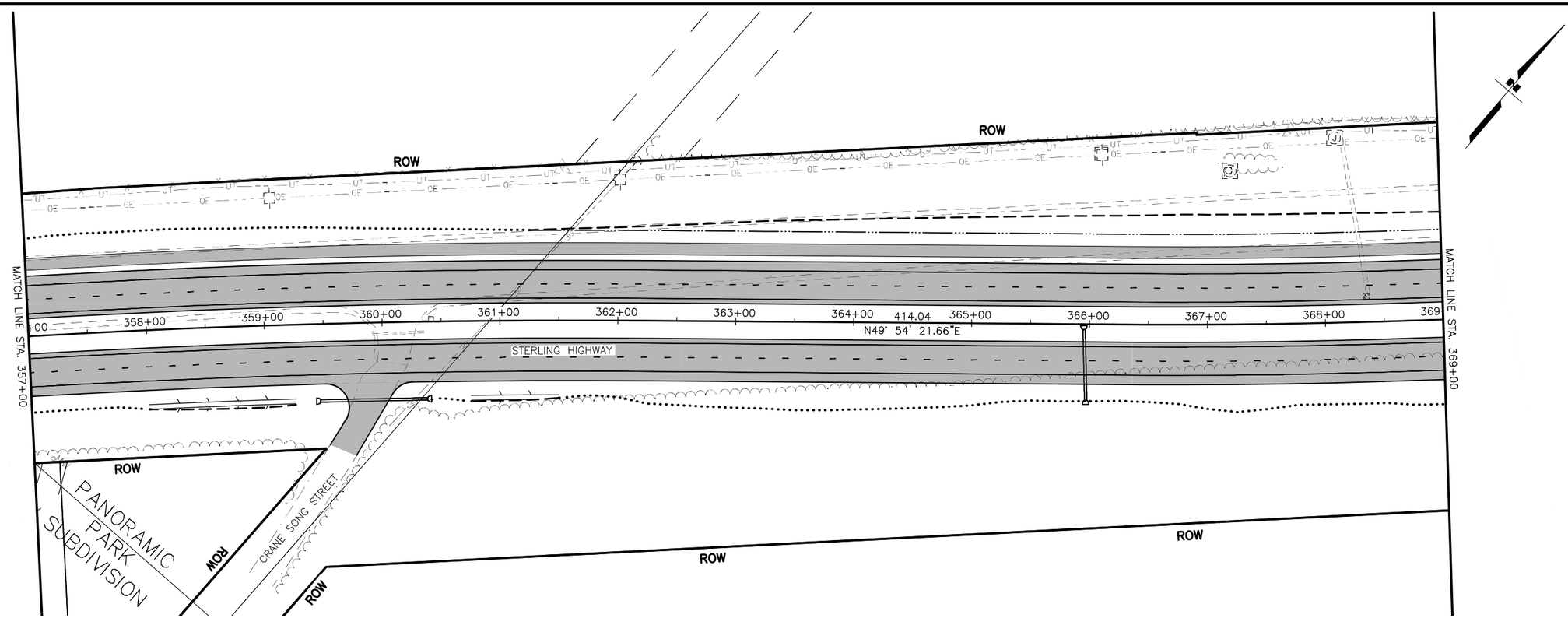
PLAN AND PROFILE STA 345+00 TO STA 357+00

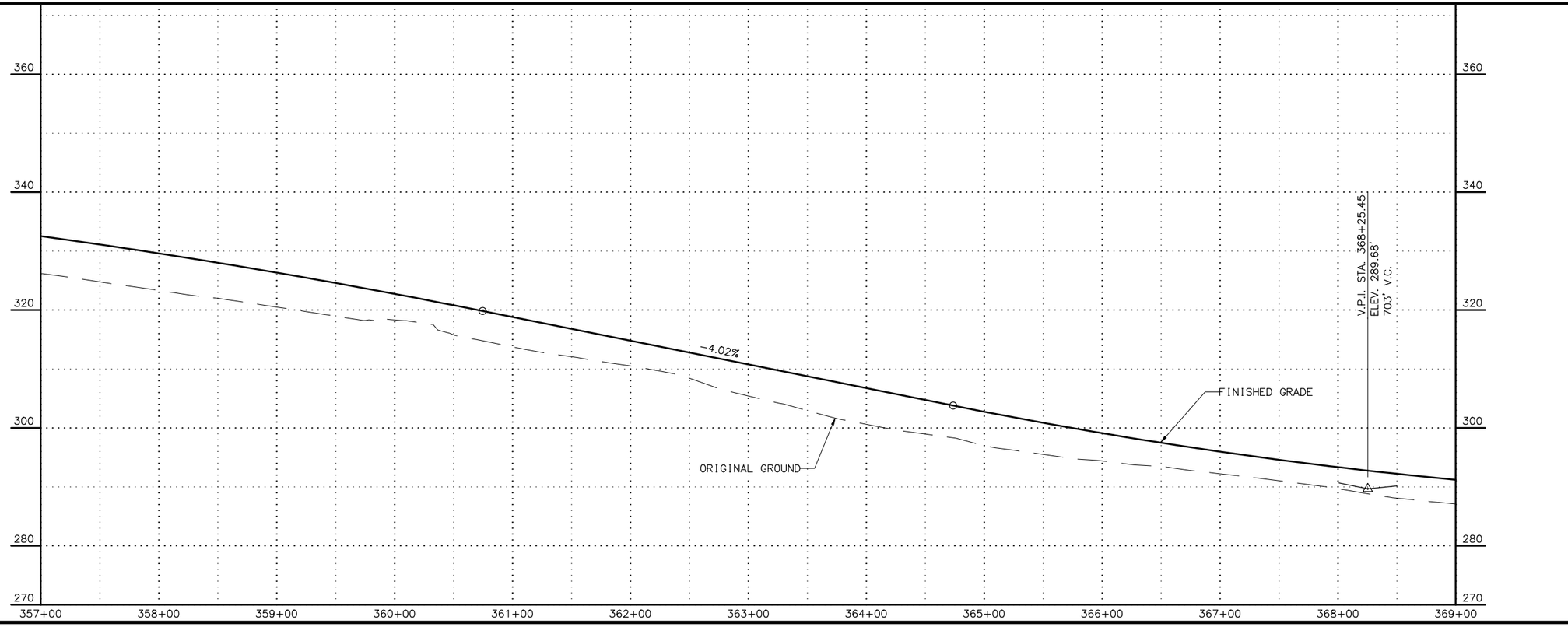
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:48 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

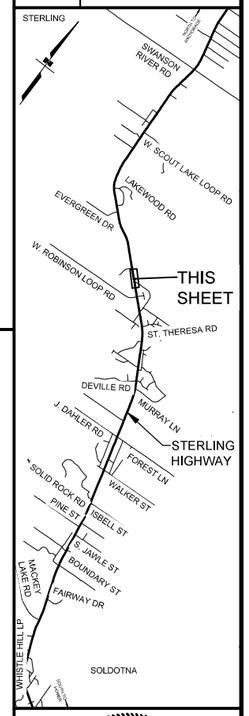




SHEET NO.	TOTAL SHEETS
F29	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

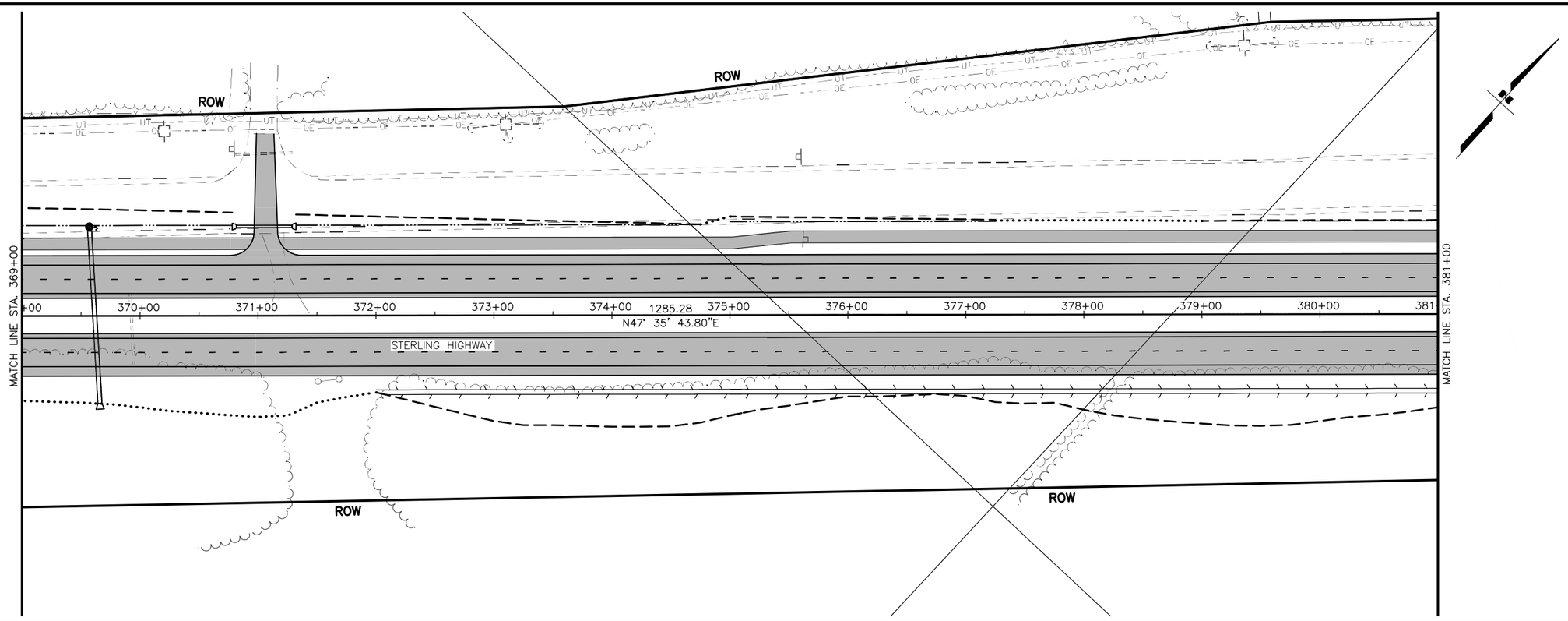
PLAN AND PROFILE STA 357+00 TO STA 369+00

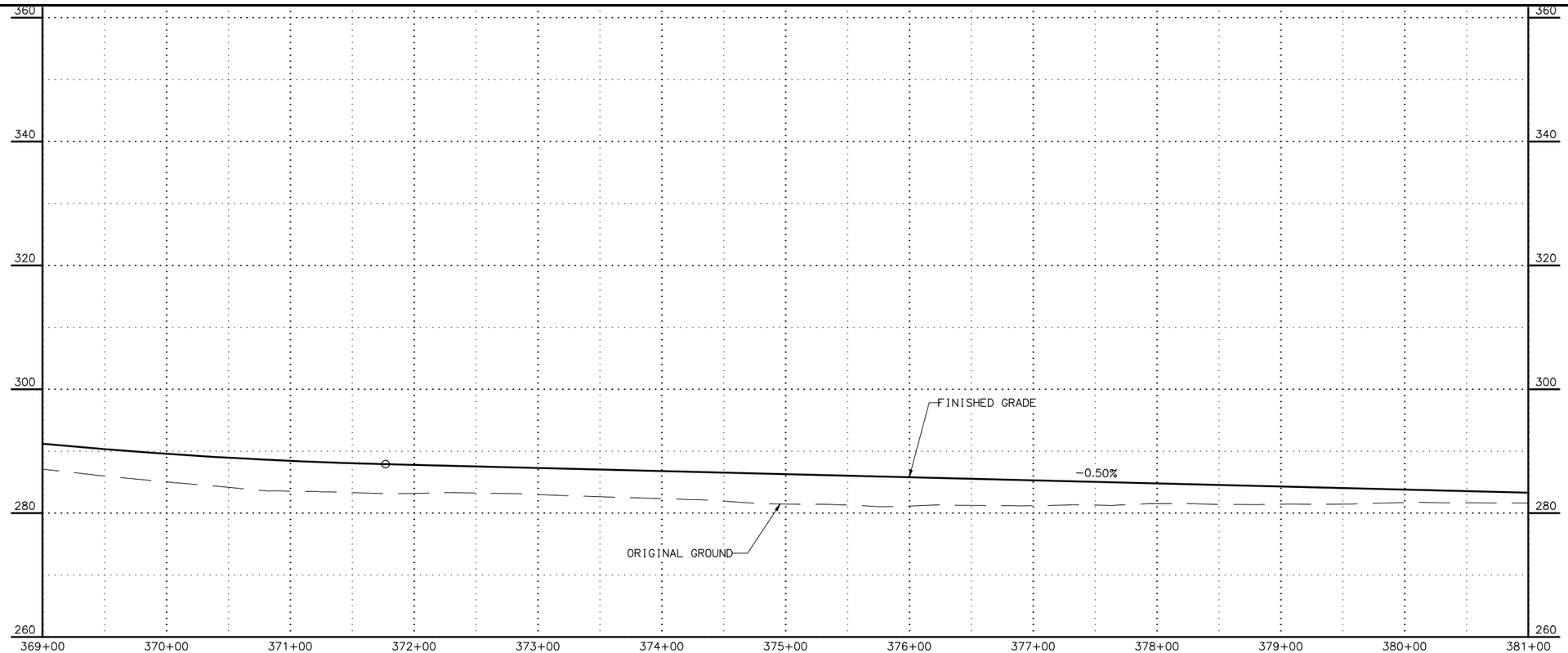
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:48 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP_2.DWG



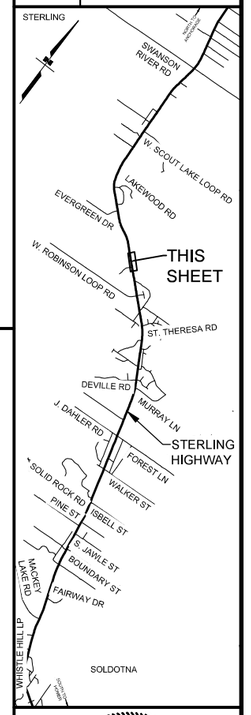


SHEET NO.	TOTAL SHEETS
F30	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

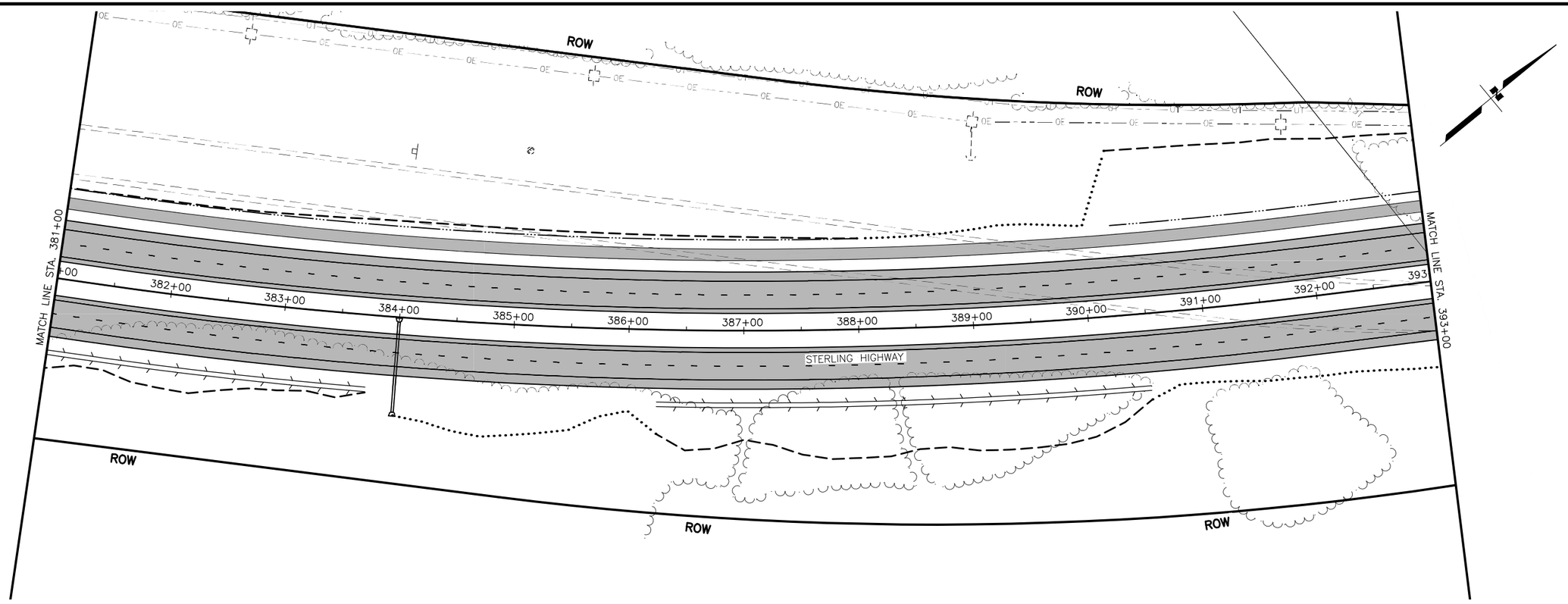
PLAN AND PROFILE STA 369+00 TO STA 381+00

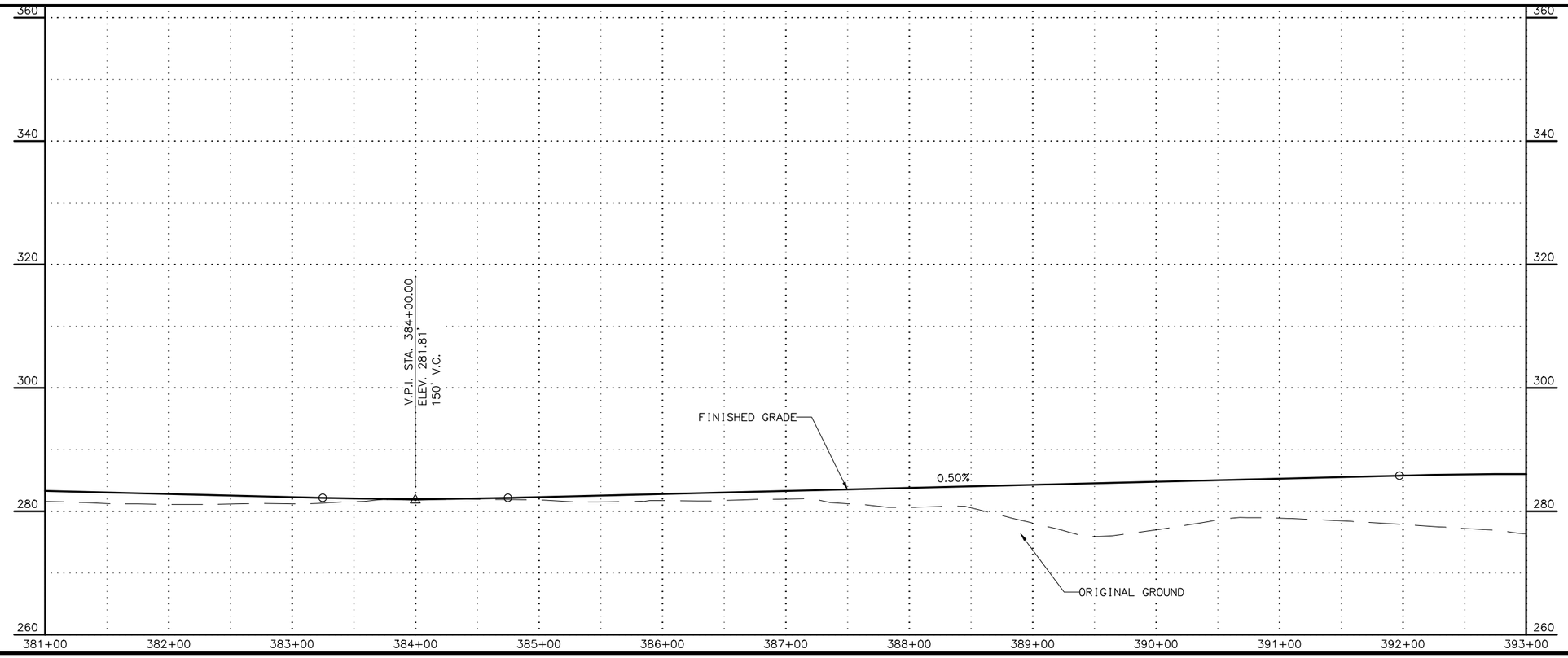
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:48 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-2.DWG

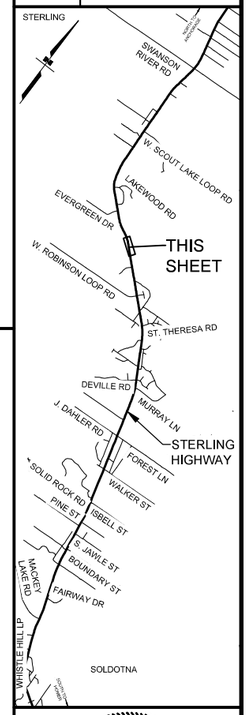




SHEET NO.	TOTAL SHEETS
F31	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

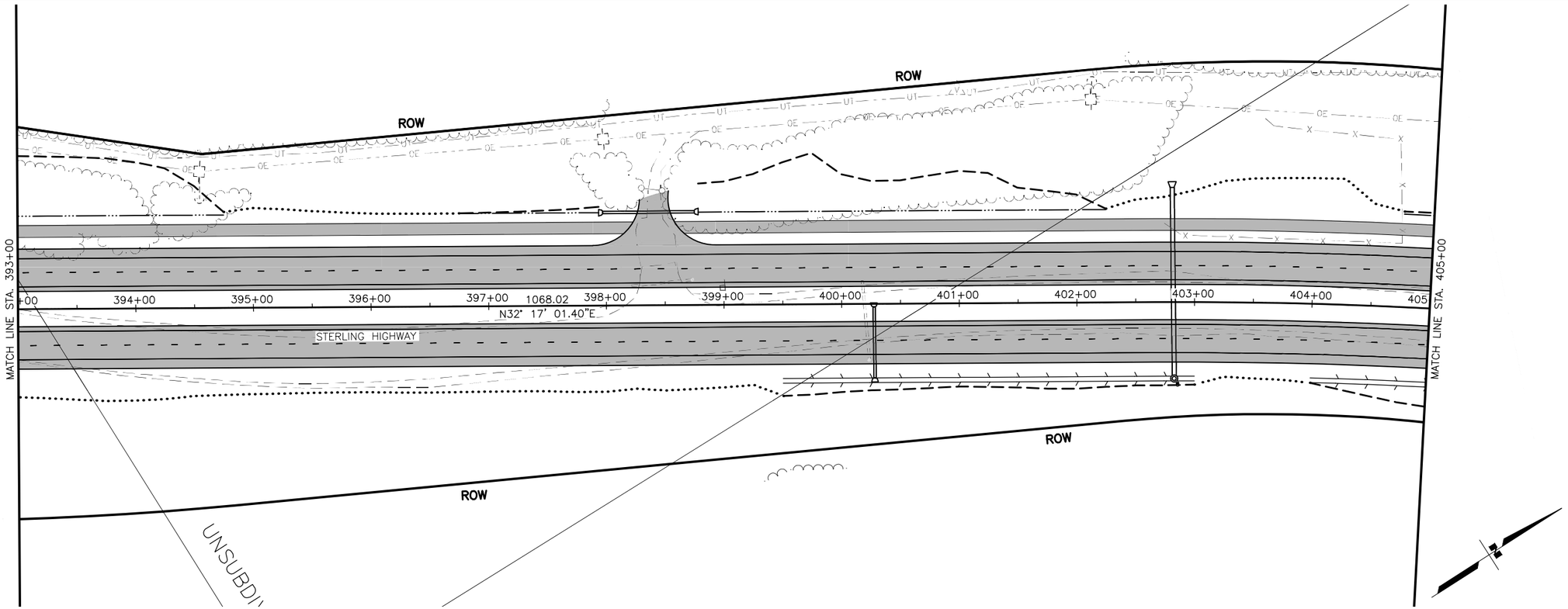
PLAN AND PROFILE STA 381+00 TO STA 393+00

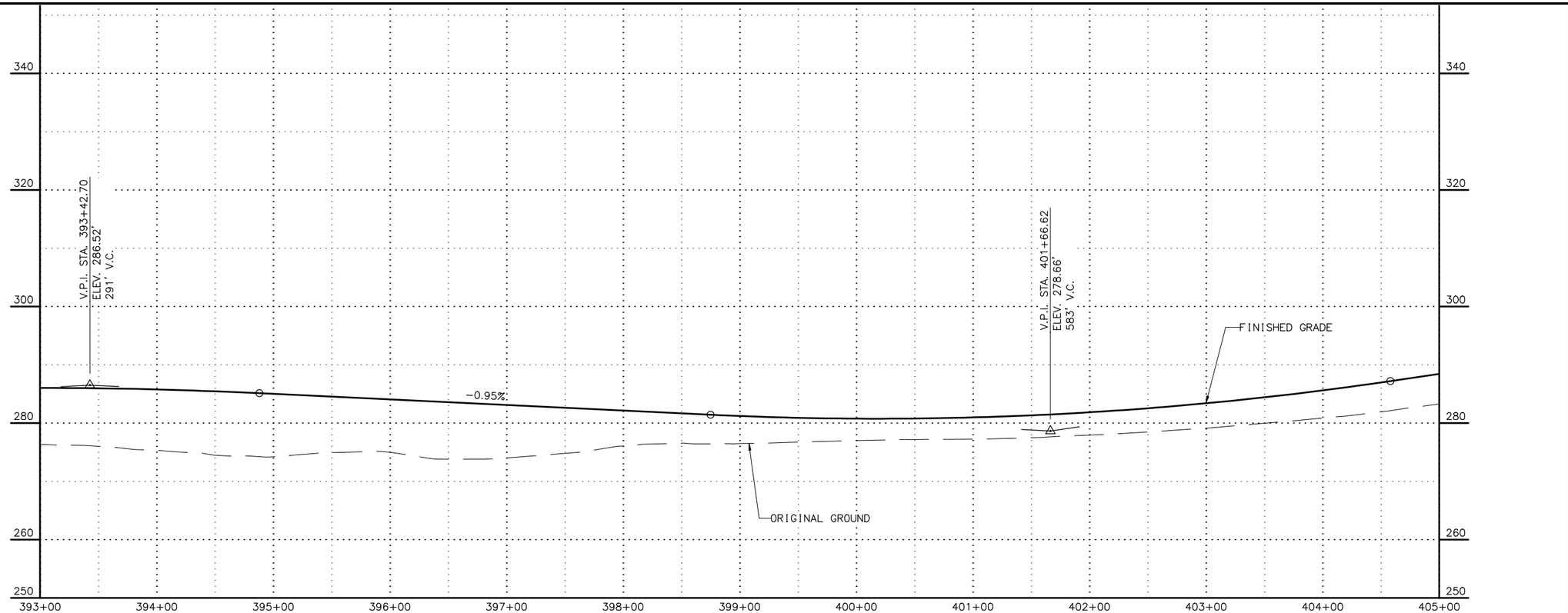
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50"

DATE 6/26/2025 TIME 8:49 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

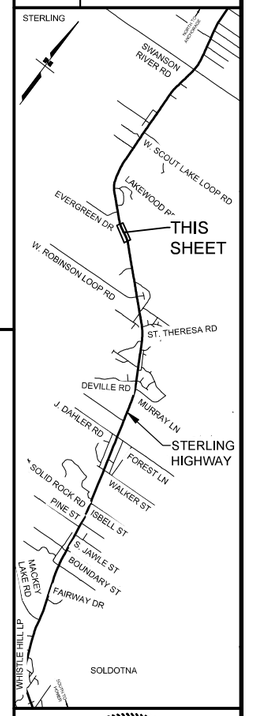




SHEET NO.	TOTAL SHEETS
F32	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

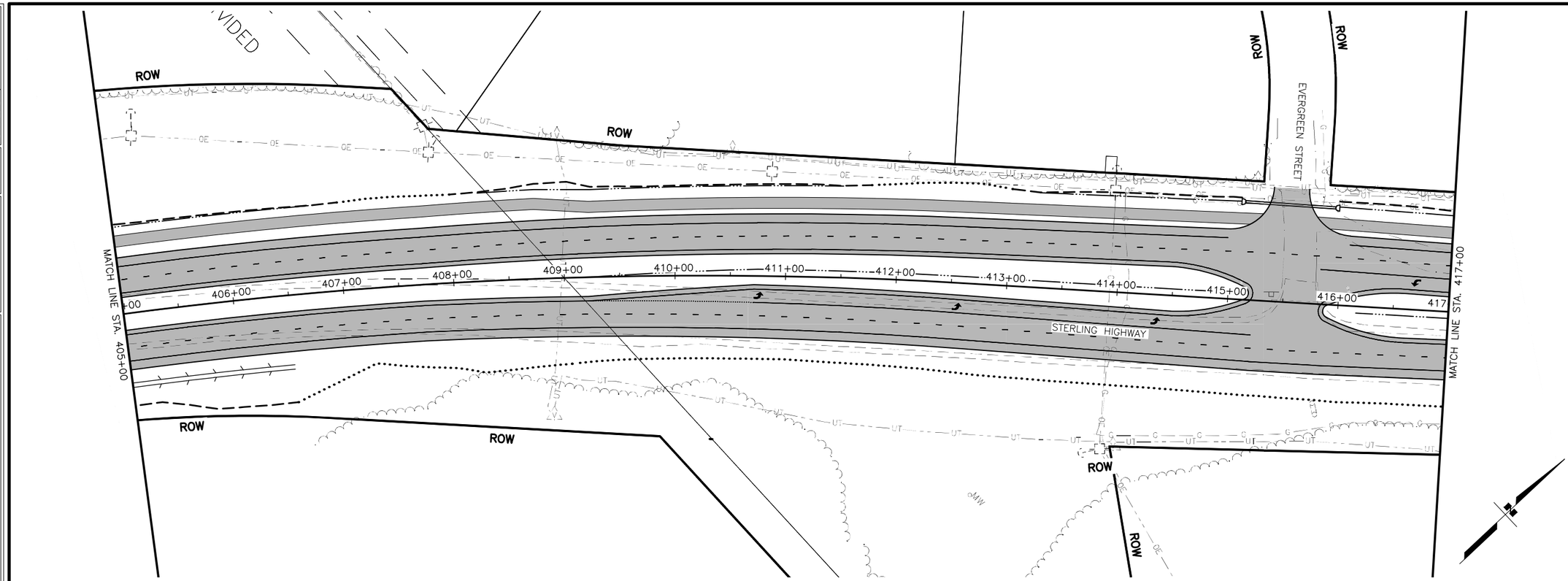
PLAN AND PROFILE STA 393+00 TO STA 405+00

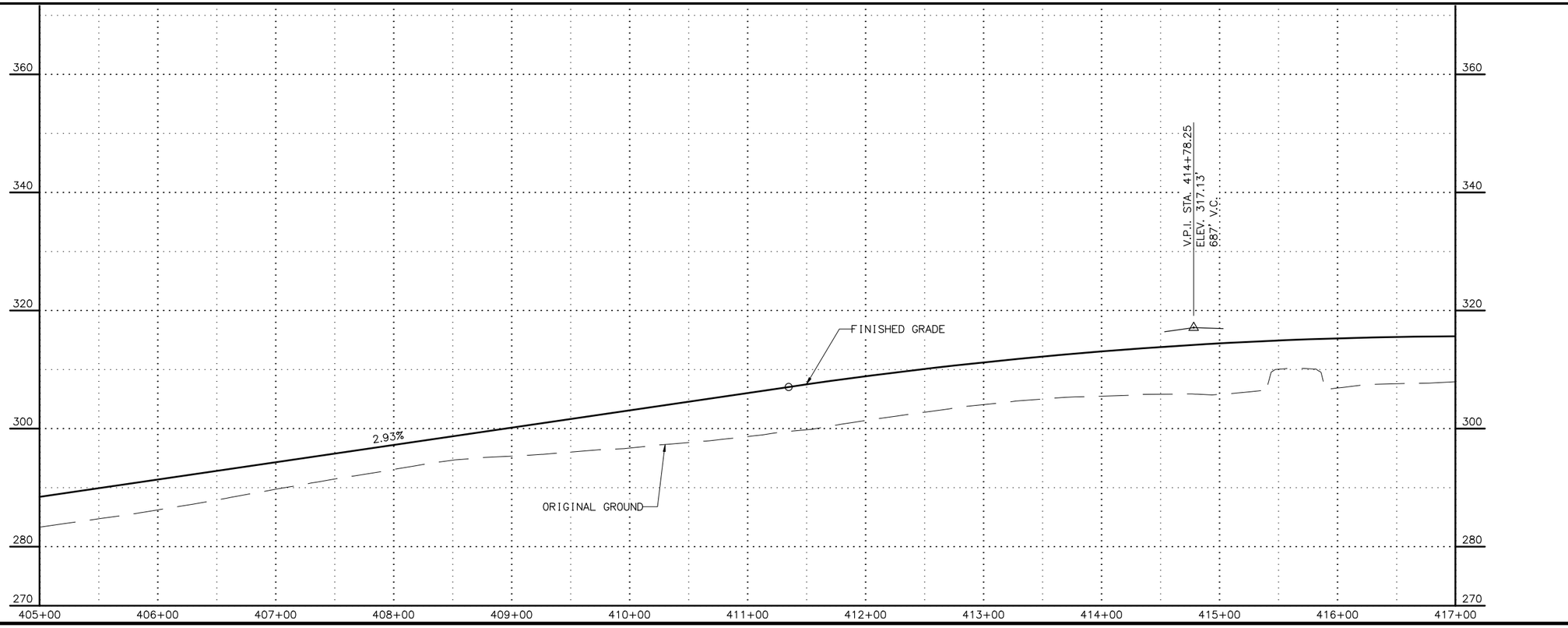
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:49 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

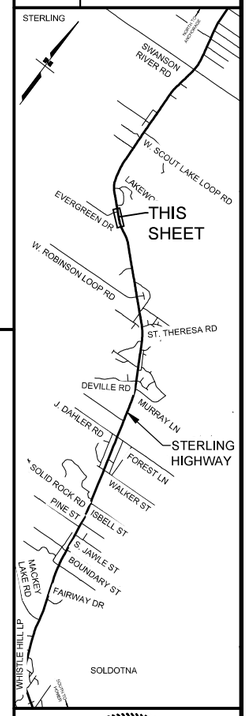




SHEET NO.	TOTAL SHEETS
F33	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

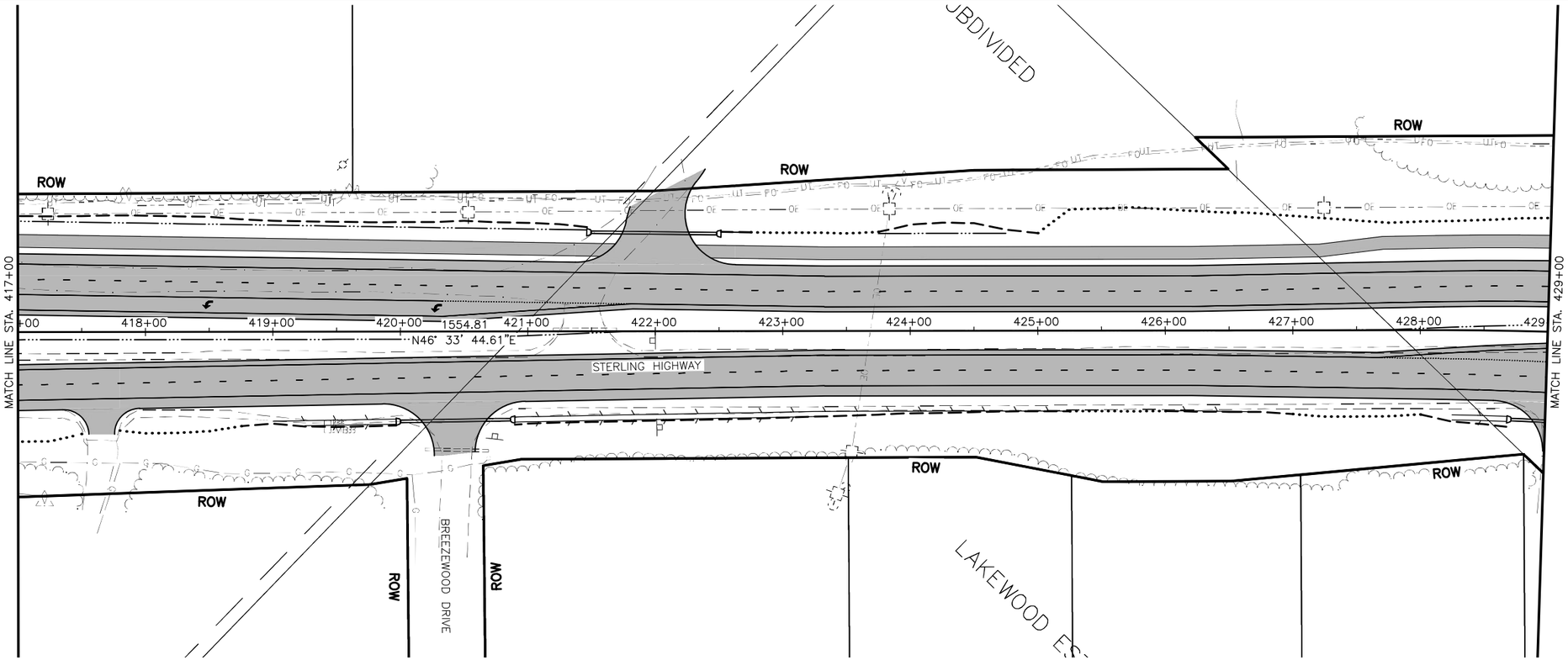
PLAN AND PROFILE STA 405+00 TO STA 417+00

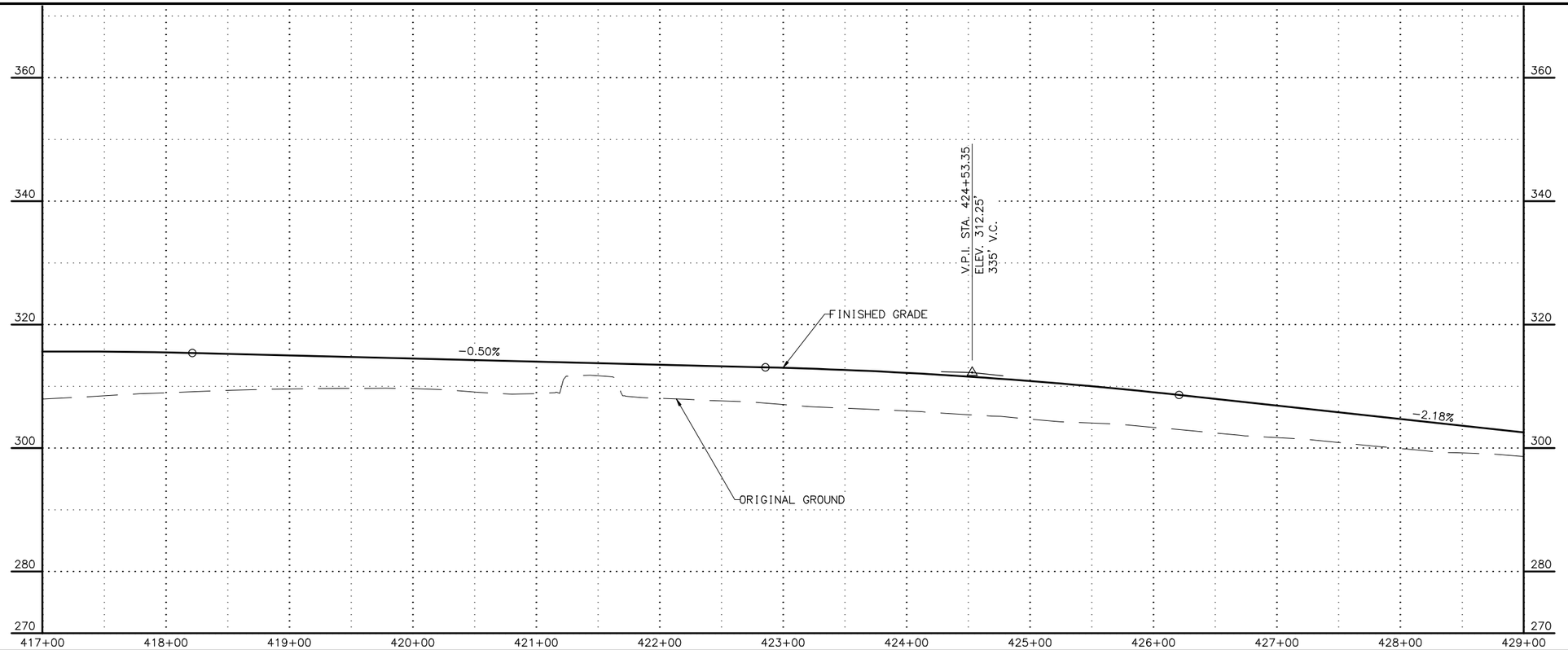
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:49 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

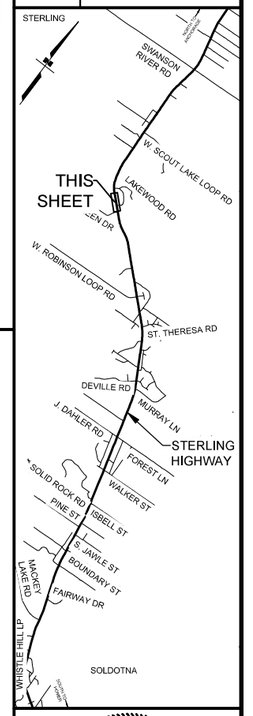




SHEET NO.	TOTAL SHEETS
F34	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

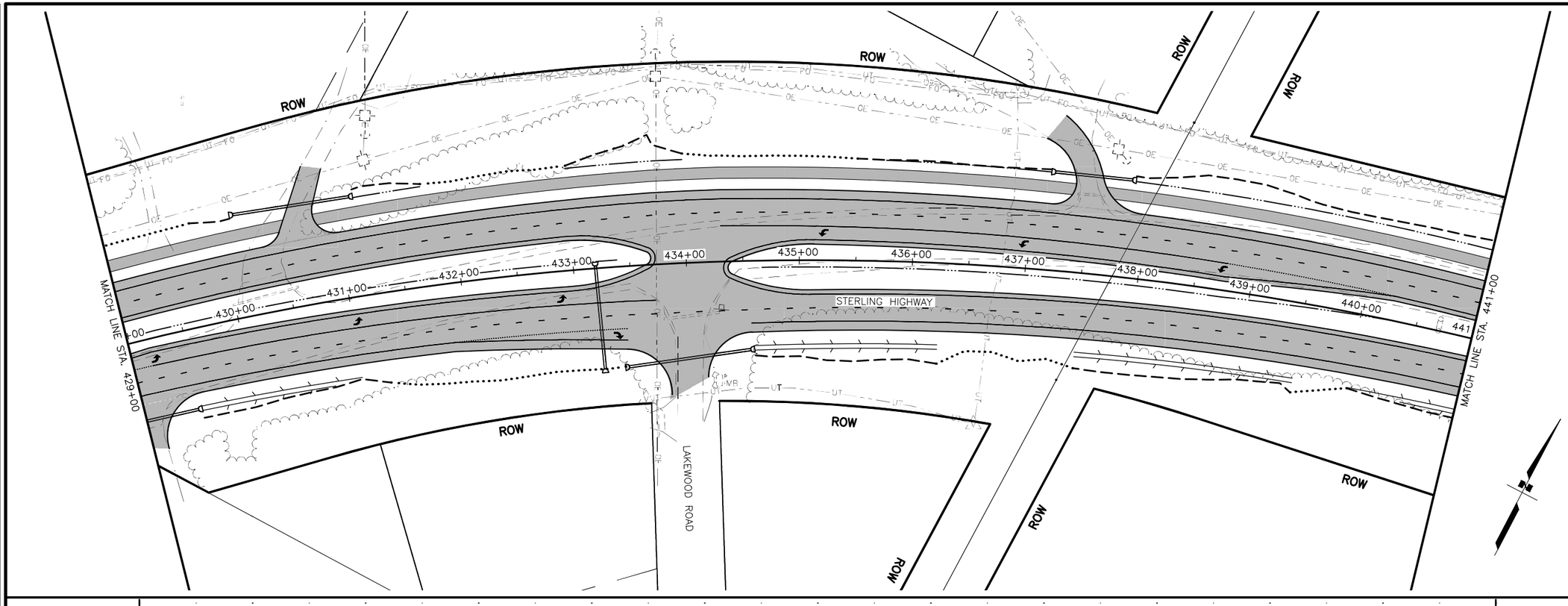
PLAN AND PROFILE STA 417+00 TO STA 429+00

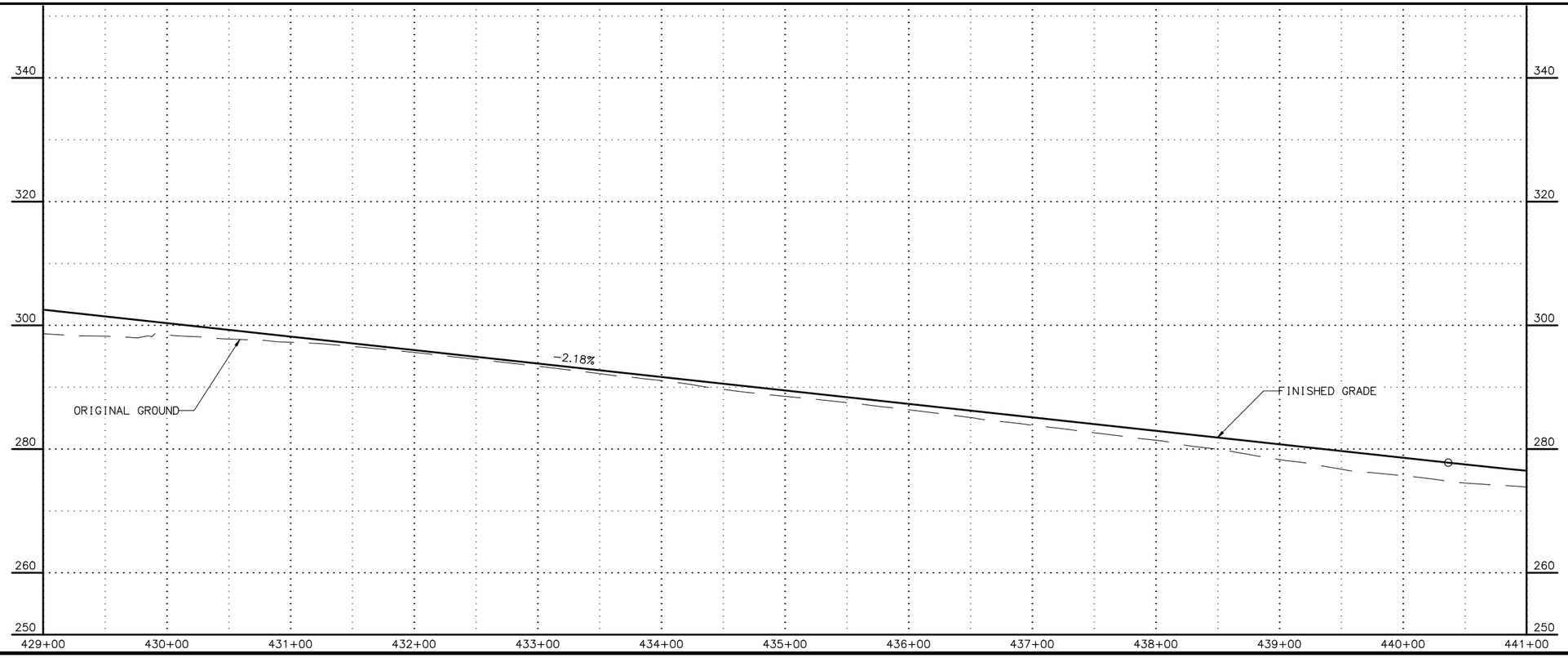
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:49 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-2.DWG

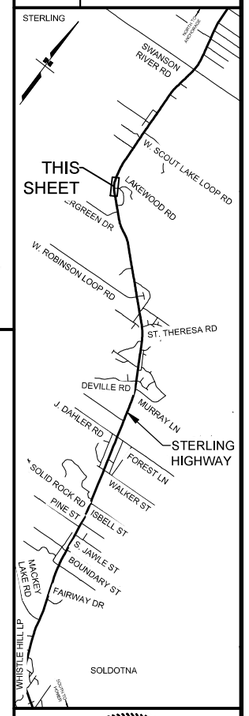




SHEET NO.	TOTAL SHEETS
F35	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR FINAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

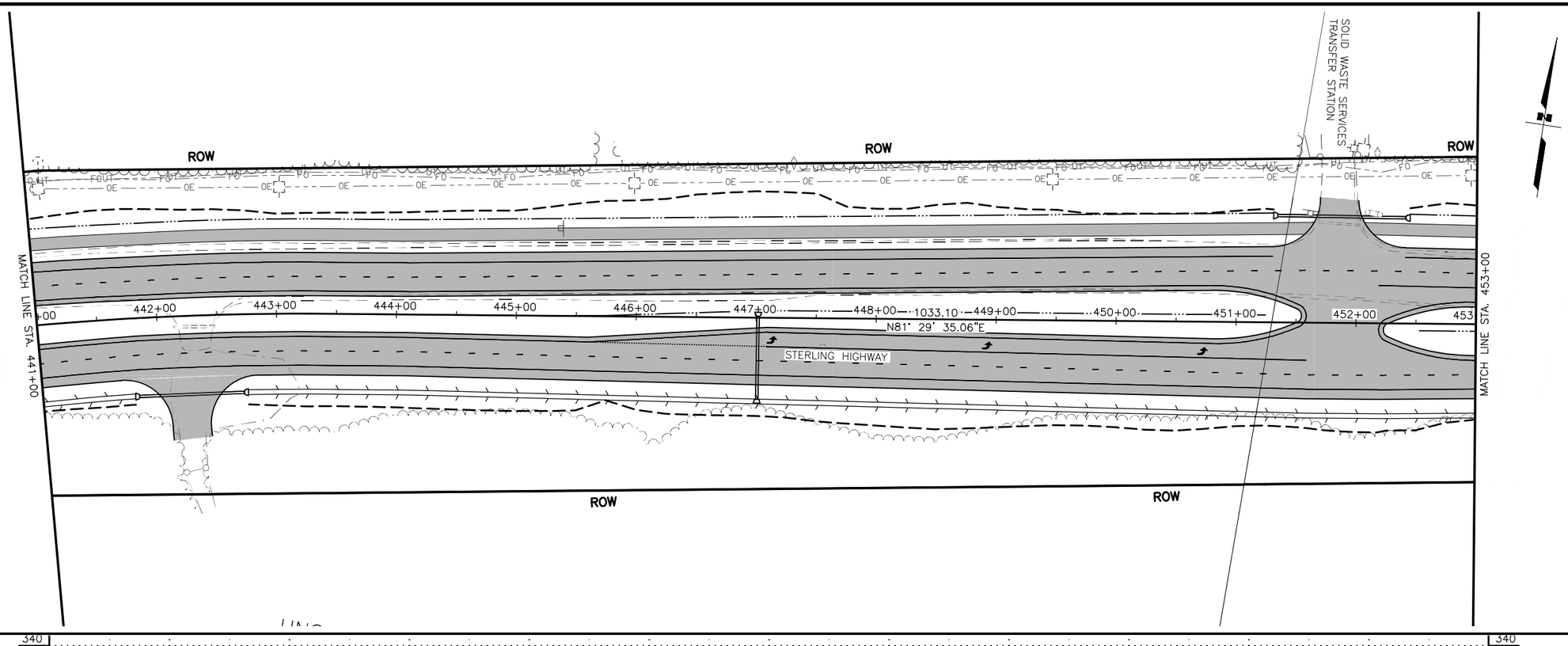
PLAN AND PROFILE STA 429+00 TO STA 441+00

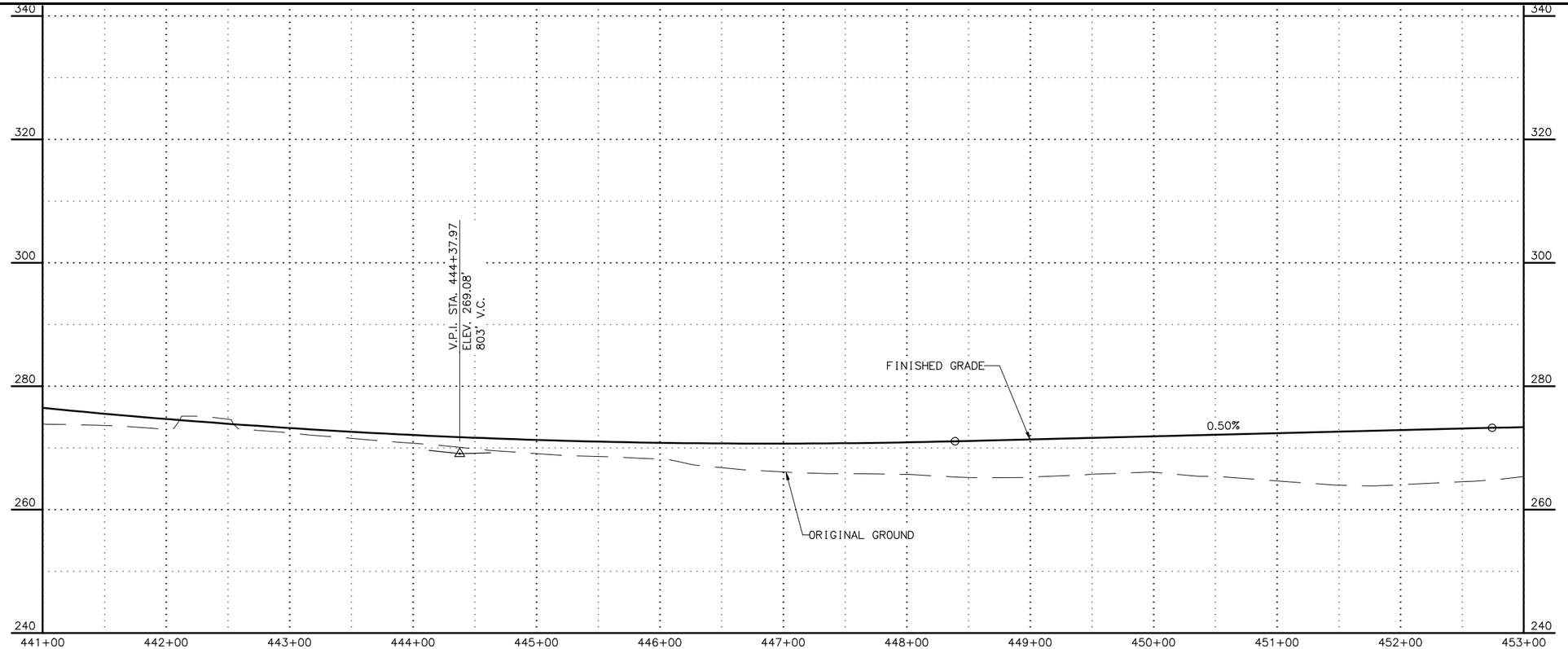
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:50 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP_2.DWG

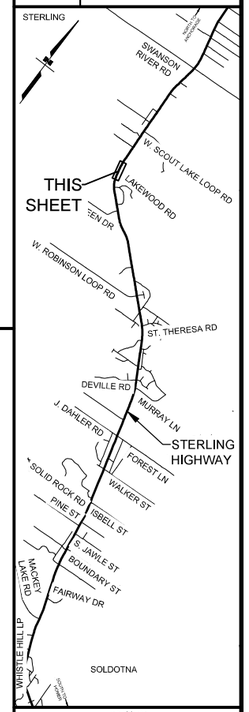




SHEET NO.	TOTAL SHEETS
F36	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PLAN AND PROFILE
STA 441+00 TO
STA 453+00

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
LOCAL REVIEW
PROJECT MANAGER
PROFESSIONAL ENGINEER

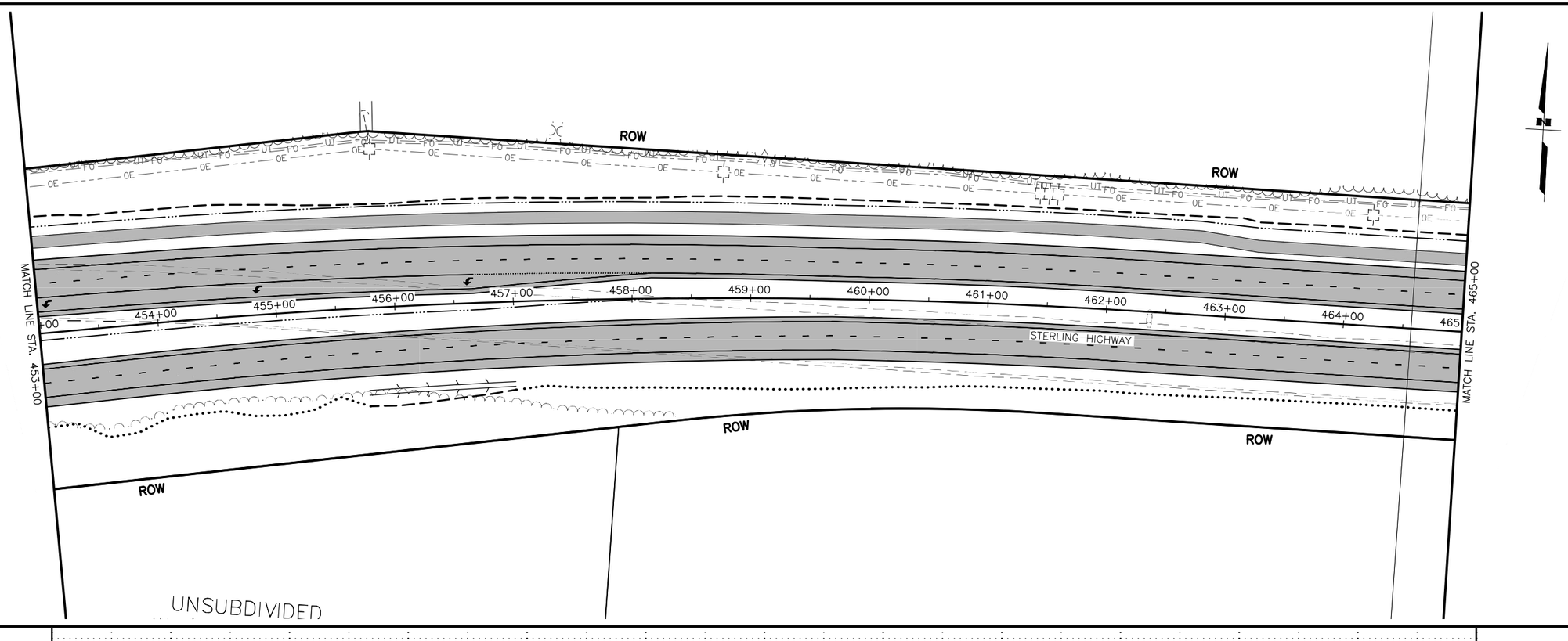
PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

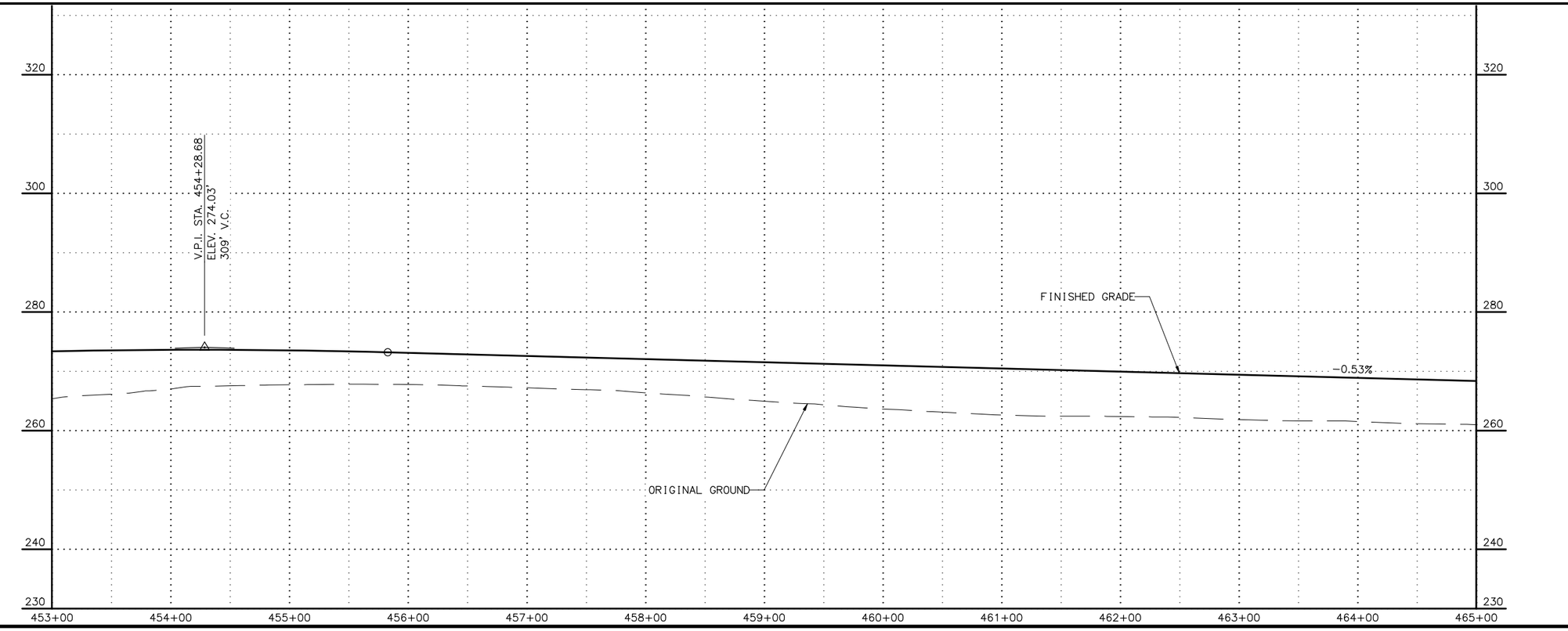
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:50 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

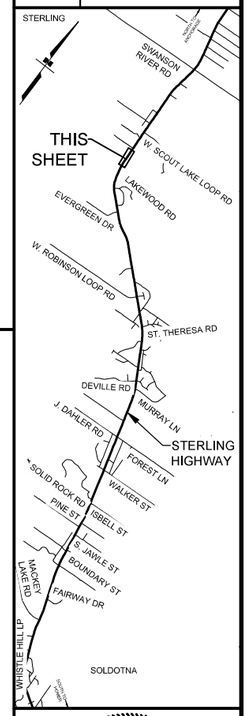




SHEET NO.	TOTAL SHEETS
F37	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR FINAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

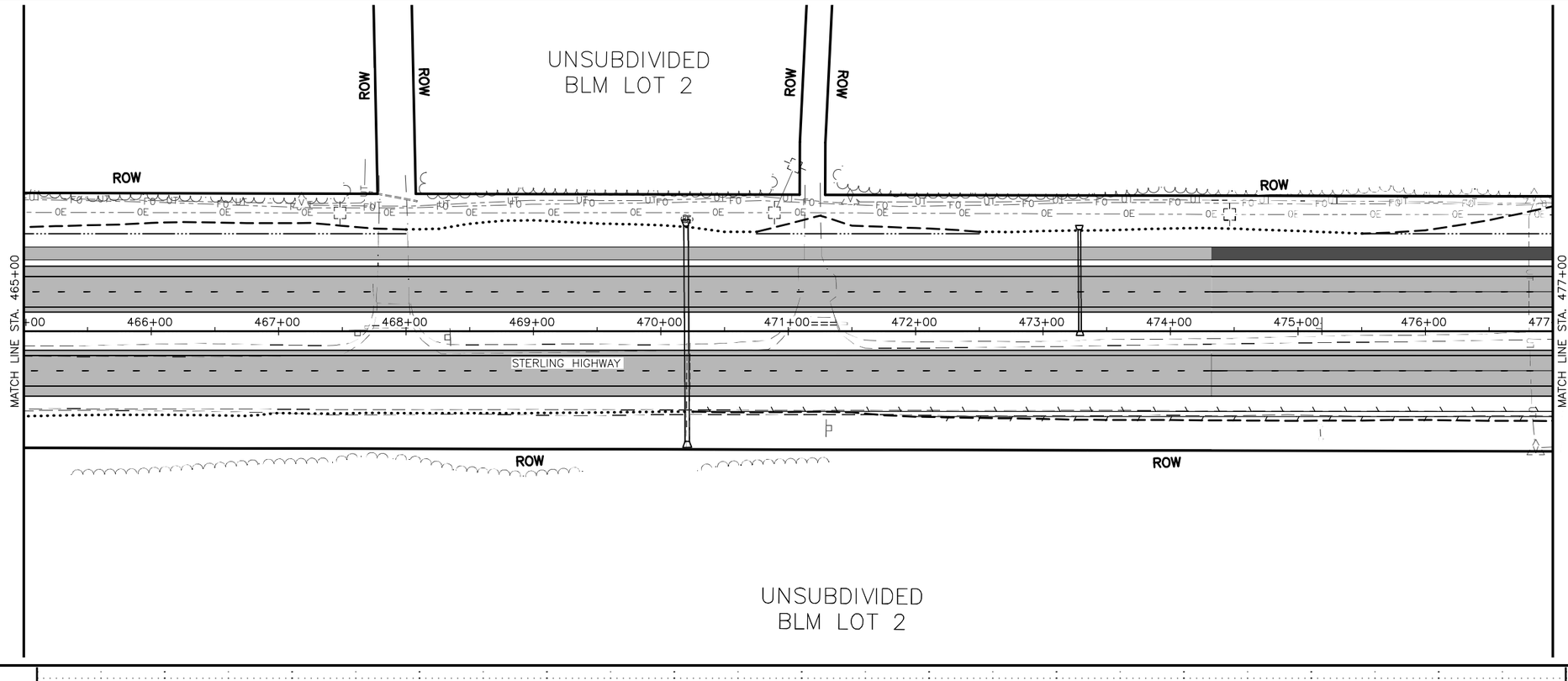
PLAN AND PROFILE STA 453+00 TO STA 465+00

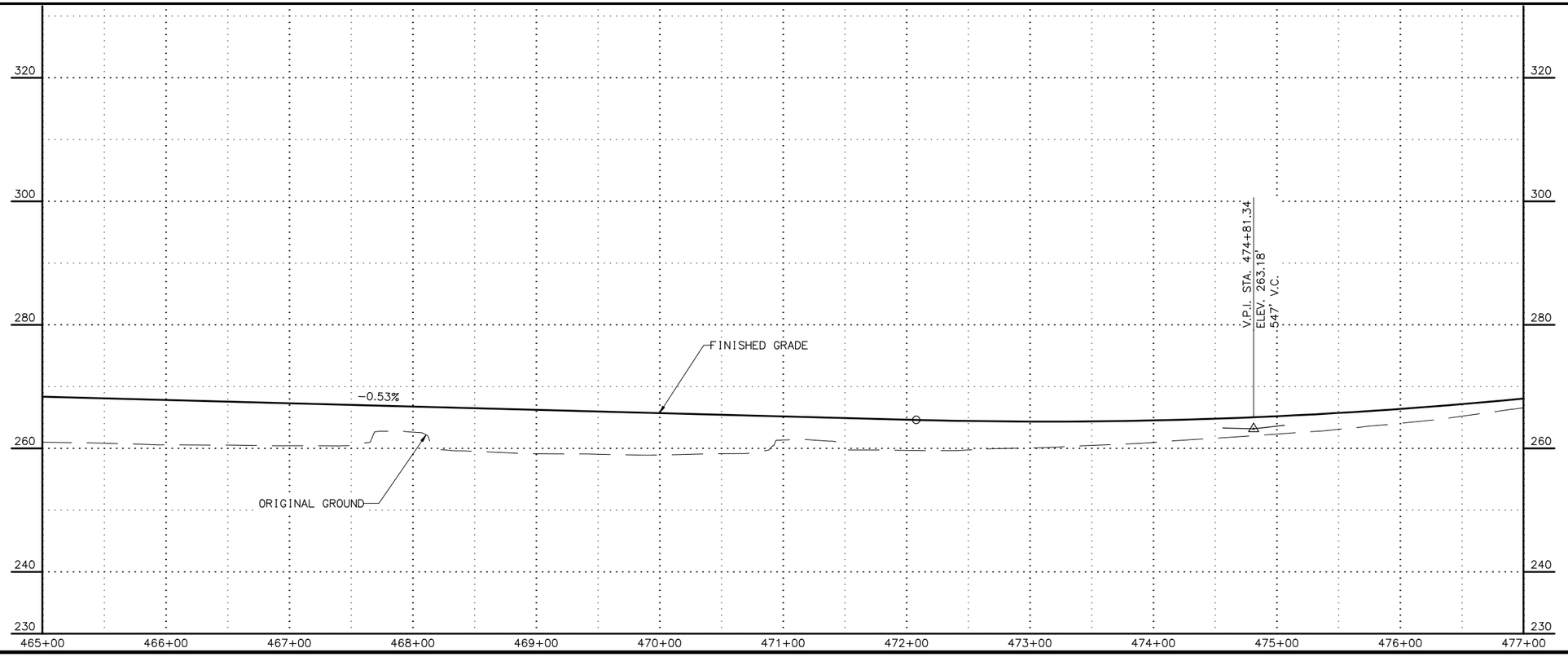
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:50 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

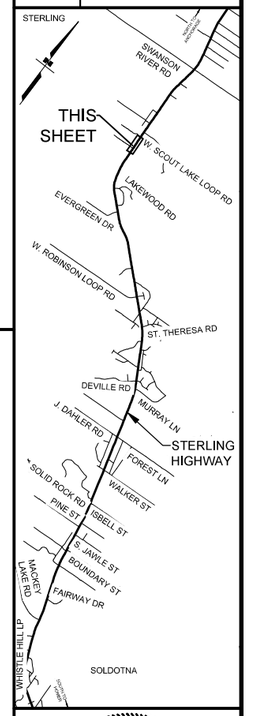




SHEET NO.	TOTAL SHEETS
F38	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

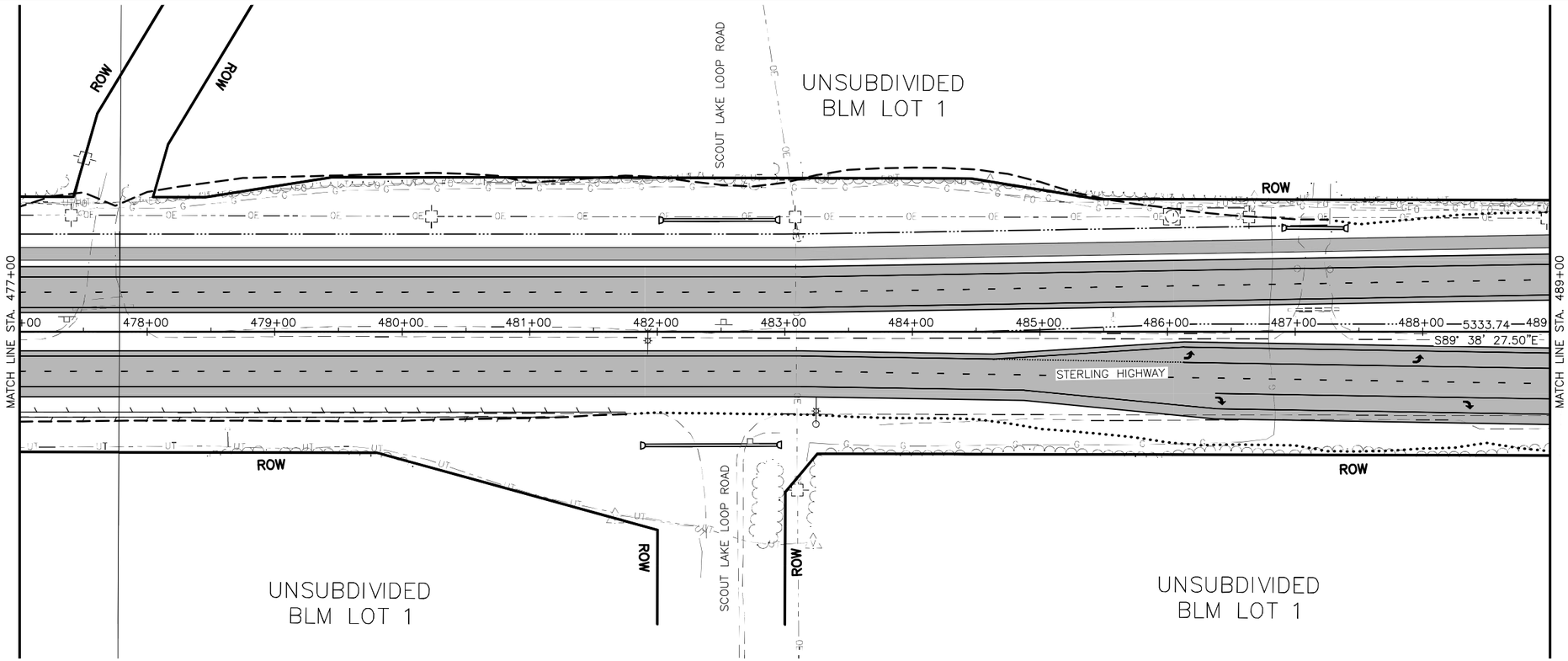
PLAN AND PROFILE STA 465+00 TO STA 477+00

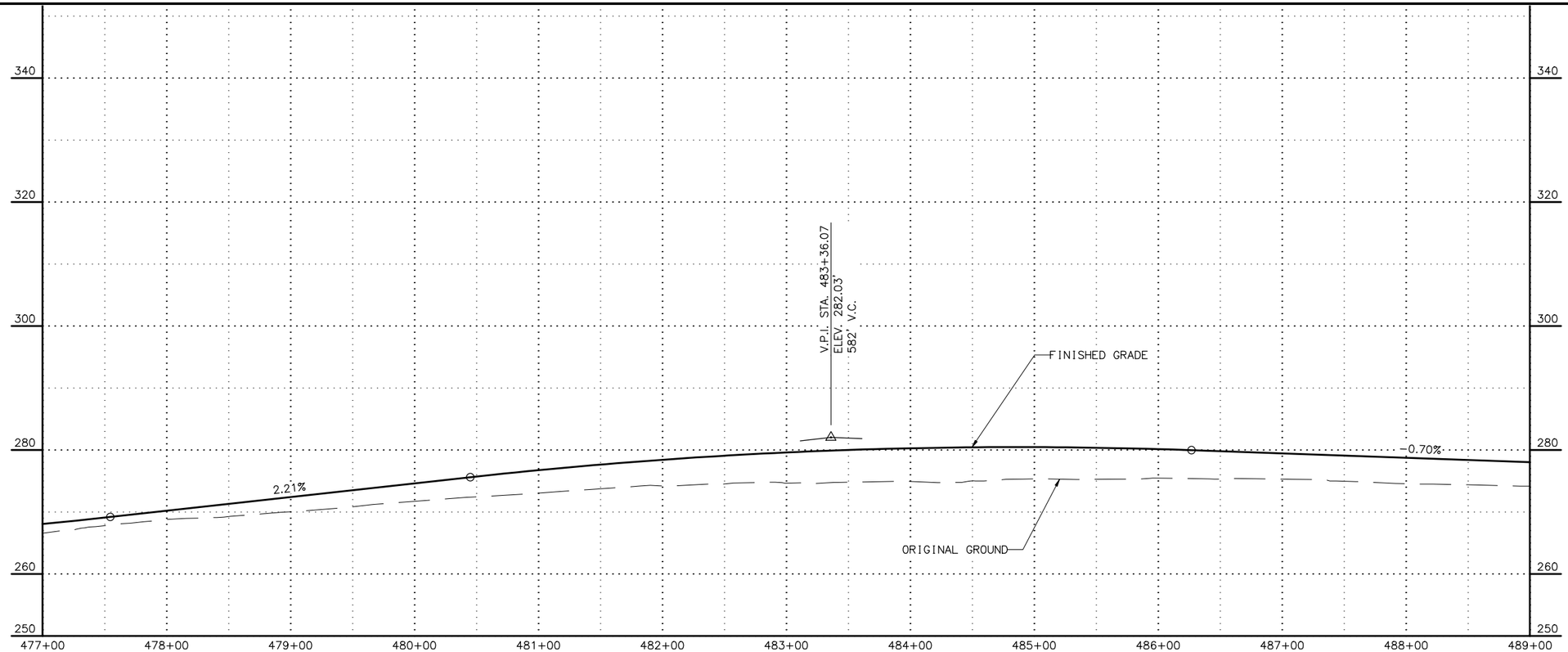
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:50 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

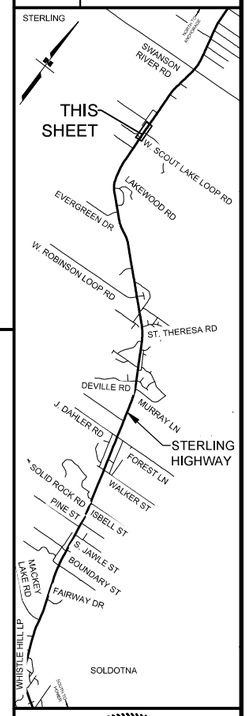




SHEET NO.	TOTAL SHEETS
F39	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



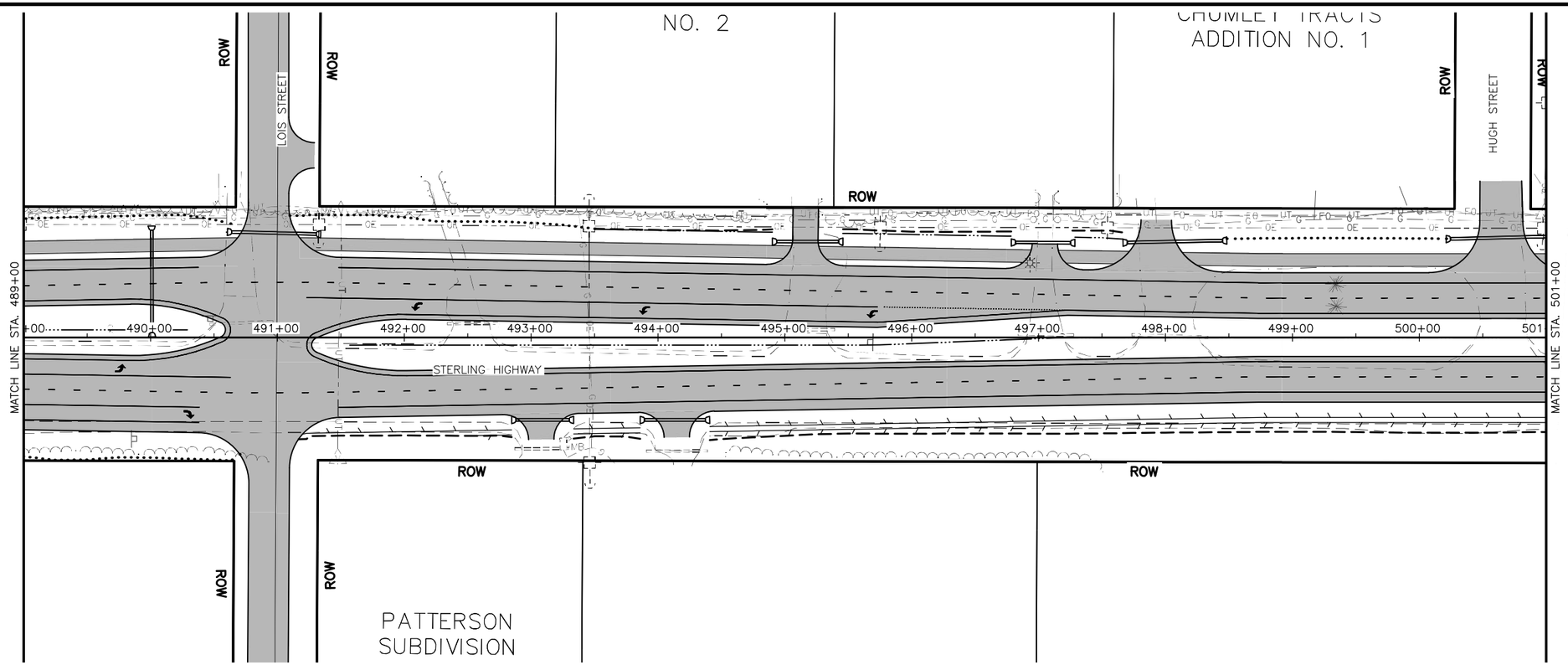
STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

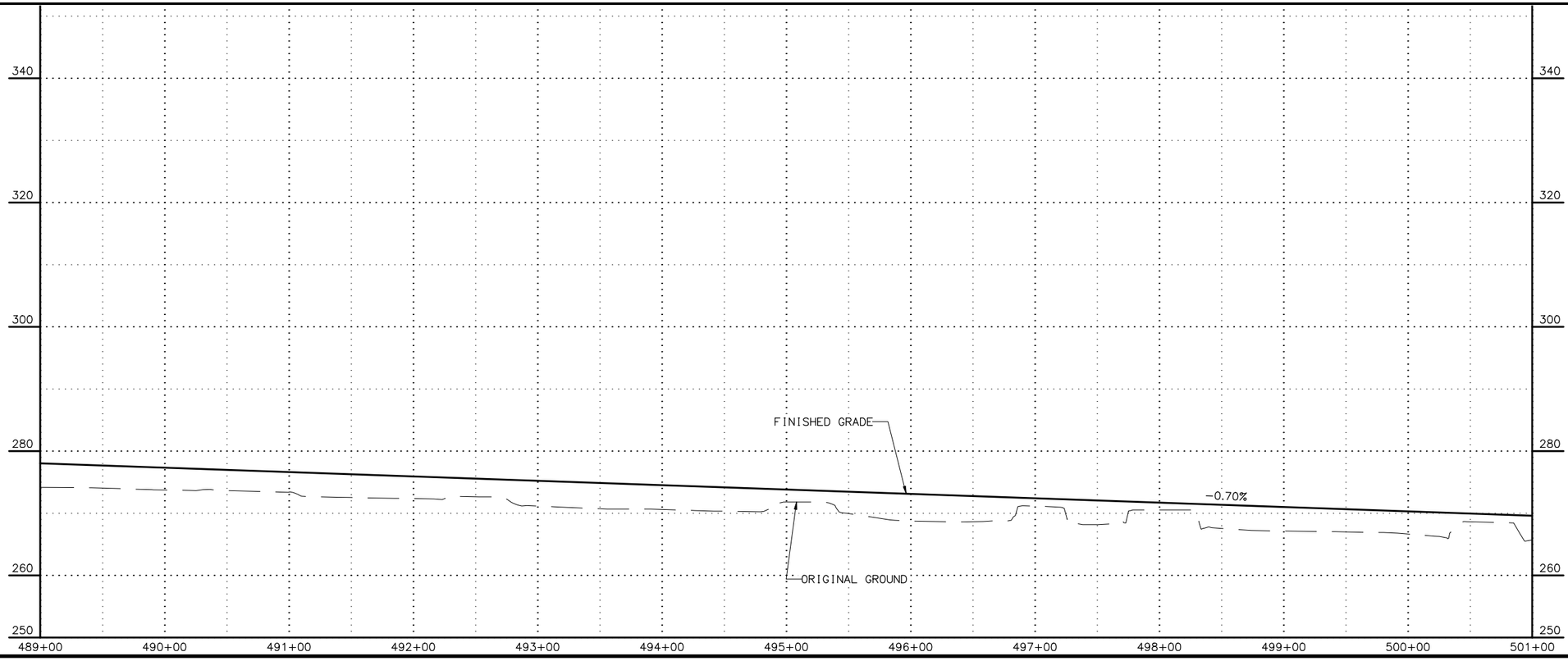
PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PLAN AND PROFILE STA 477+00 TO STA 489+00



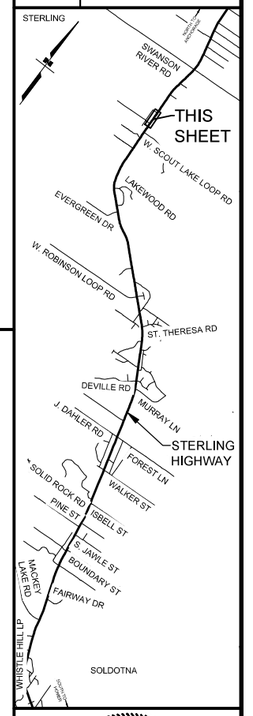


SHEET NO.	TOTAL SHEETS
F40	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR FINAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PLAN AND PROFILE STA 489+00 TO STA 501+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:51 AM

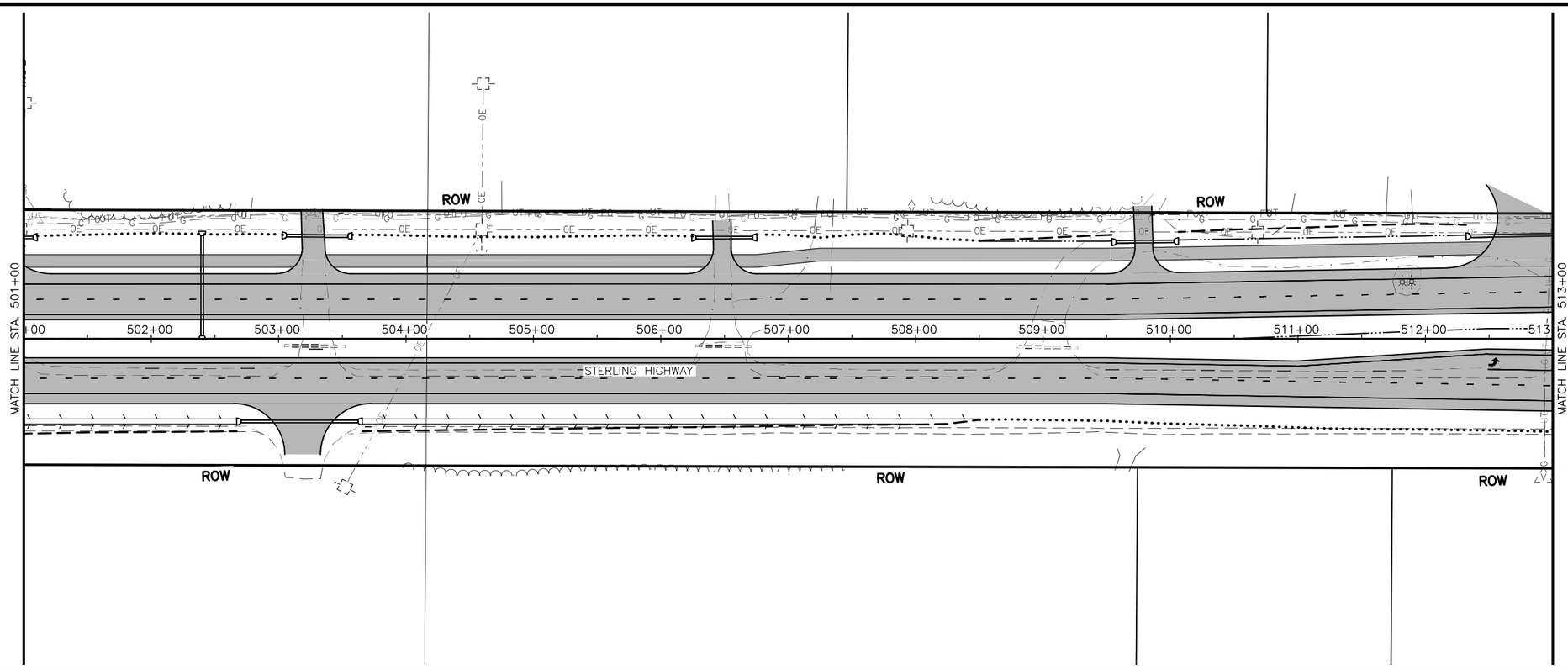
DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

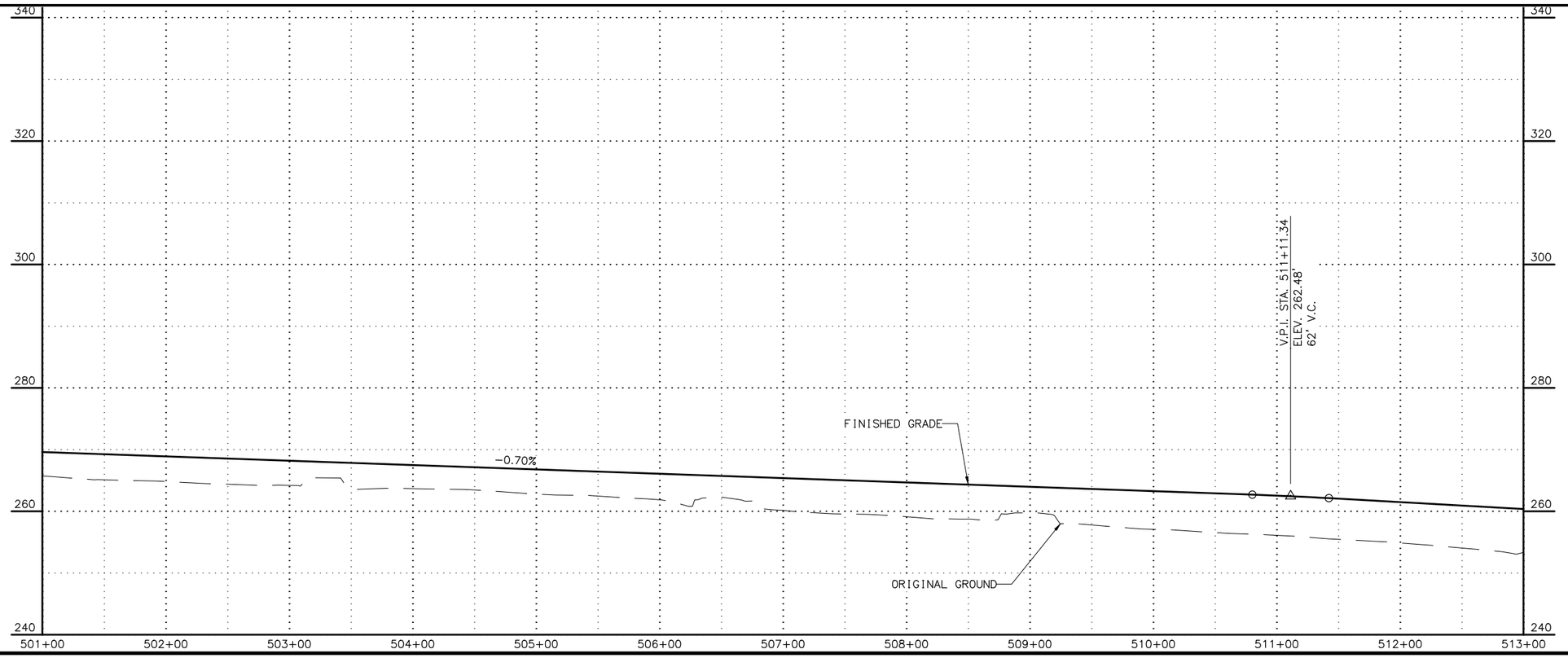
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:51 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP_2.DWG



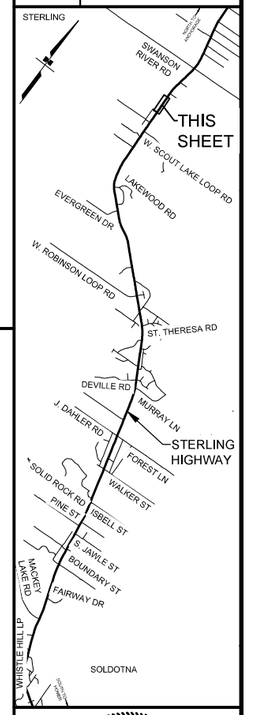


SHEET NO.	TOTAL SHEETS
F41	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

OA33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PLAN AND PROFILE
STA 501+00 TO
STA 513+00

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
LOCAL REVIEW
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER

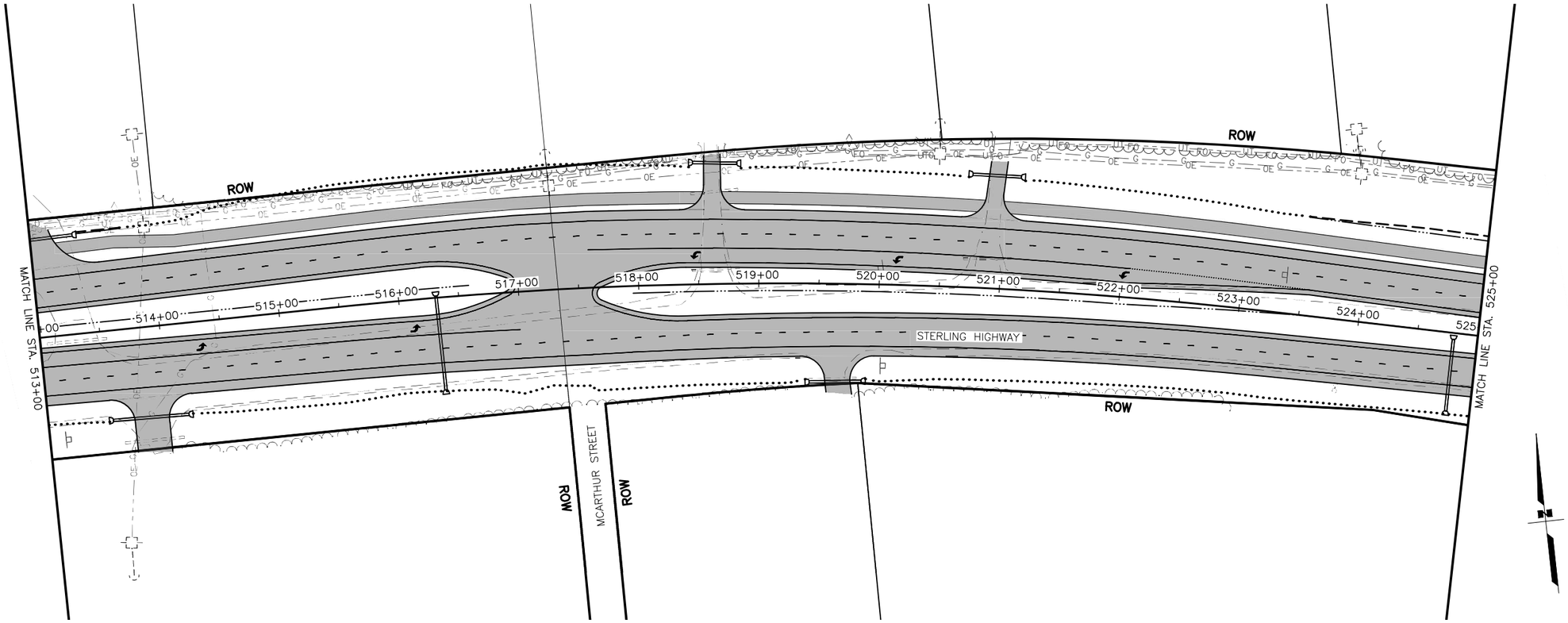
PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

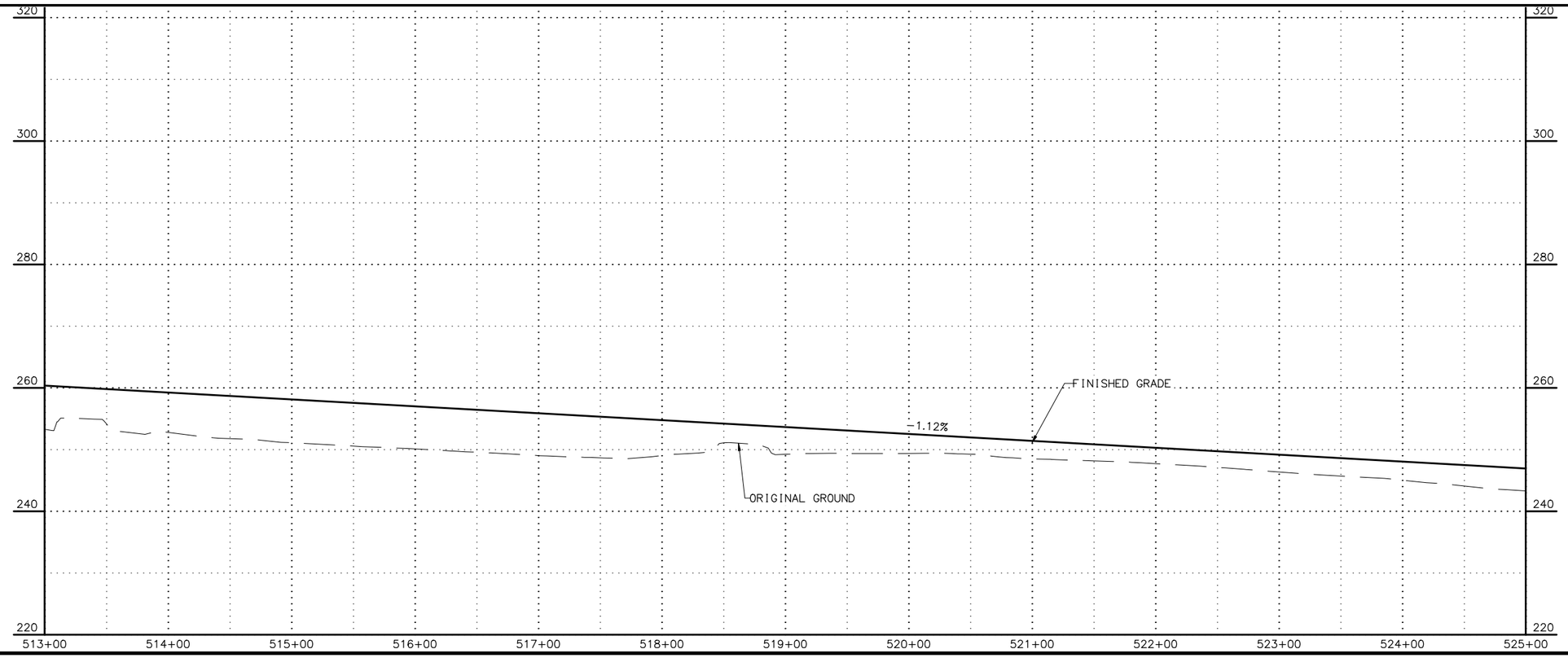
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:51 AM

DRAWING LOCATION
C:\DOWL_PW\D04174200\00130_PNP-2.DWG

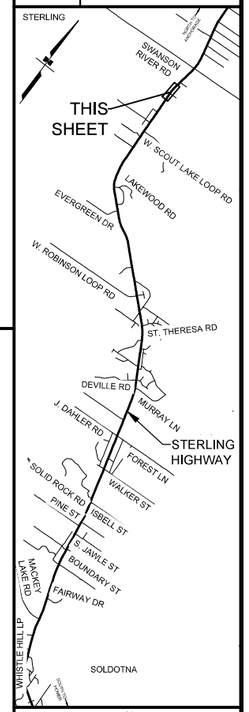




SHEET NO.	TOTAL SHEETS
F42	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT MANAGER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

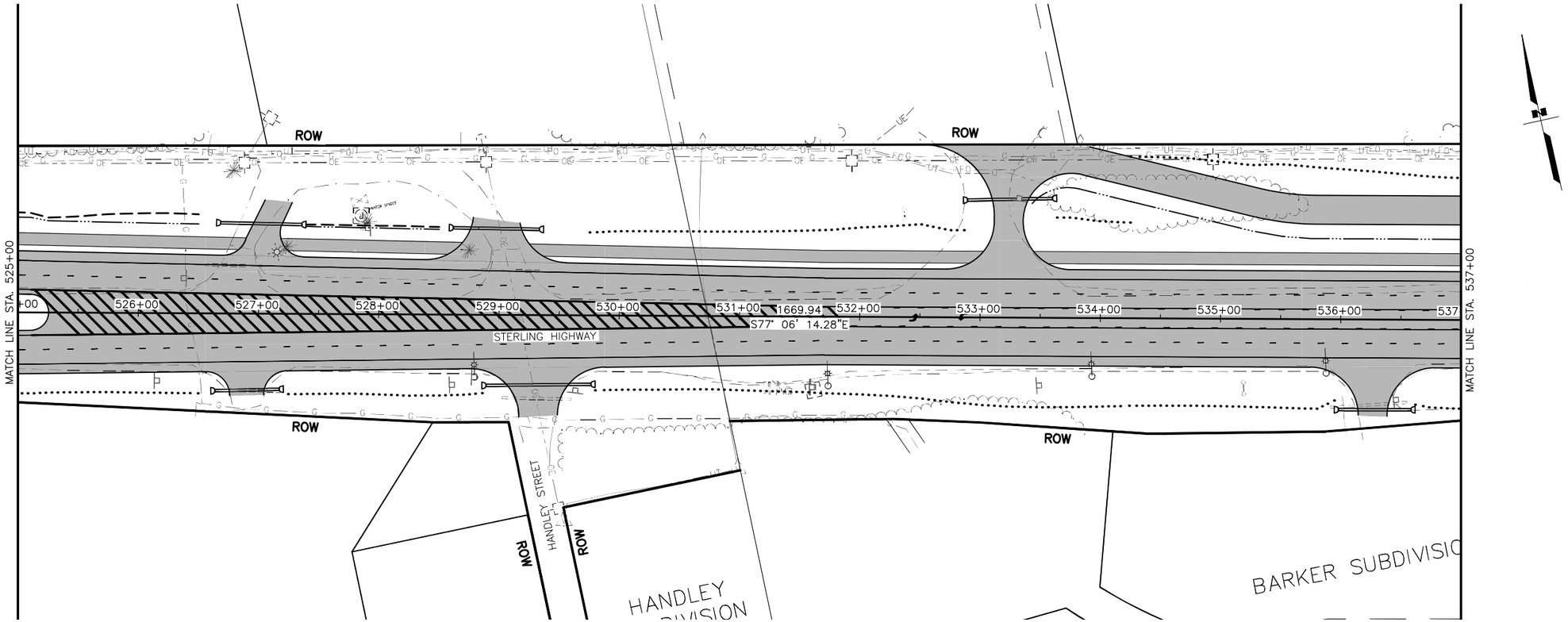
PLAN AND PROFILE STA 513+00 TO STA 525+00

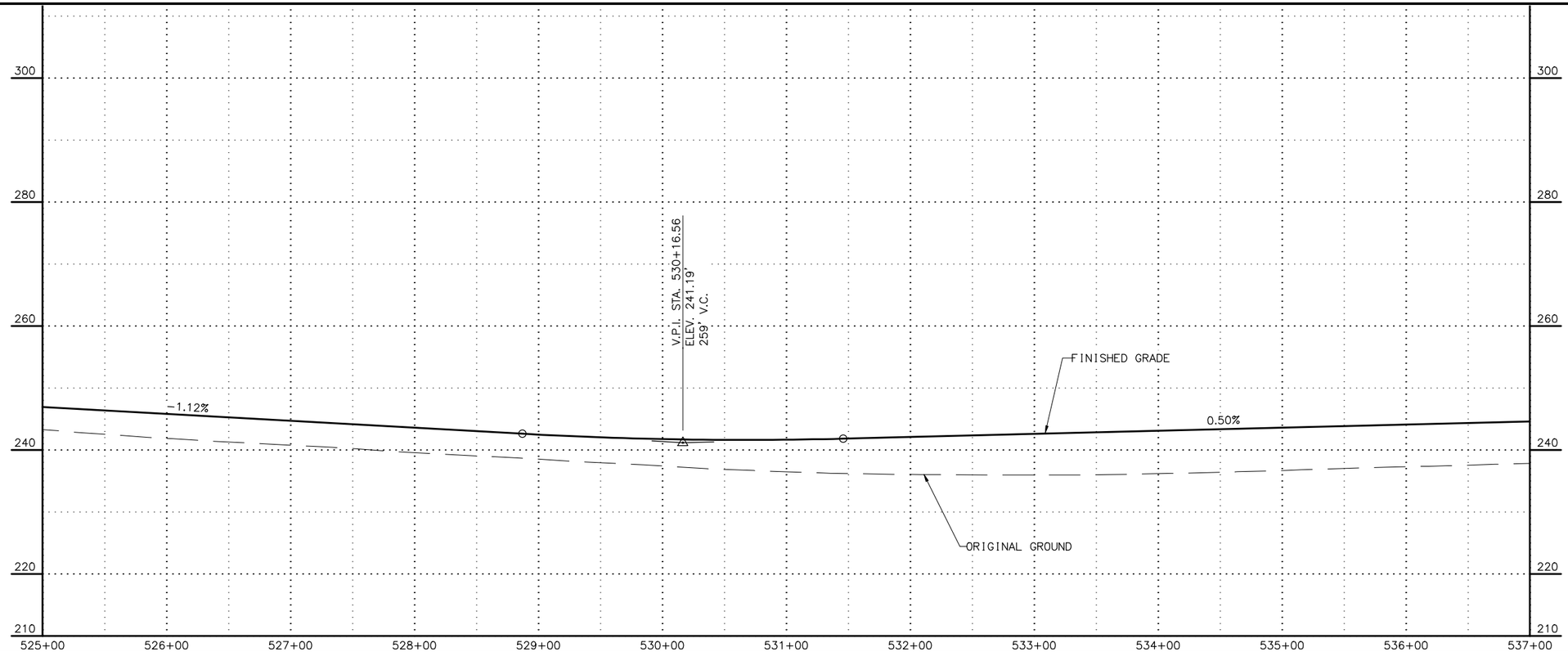
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:51 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

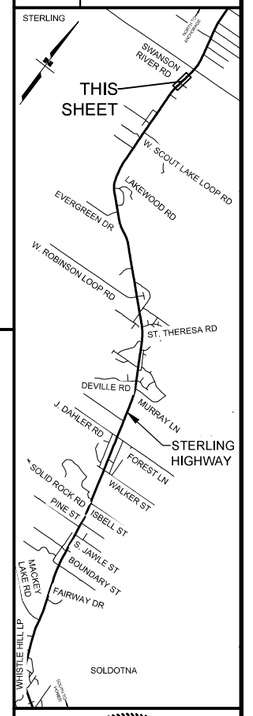




SHEET NO.	TOTAL SHEETS
F43	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

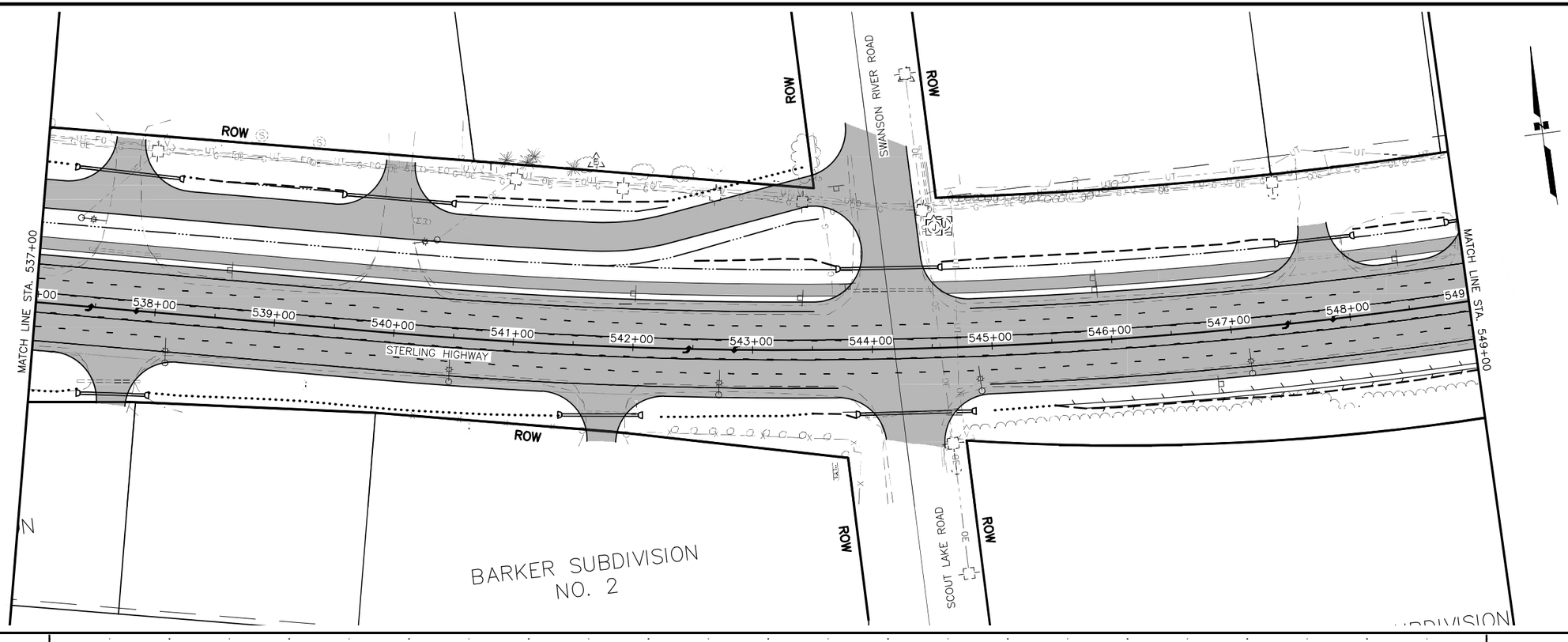
PLAN AND PROFILE STA 525+00 TO STA 537+00

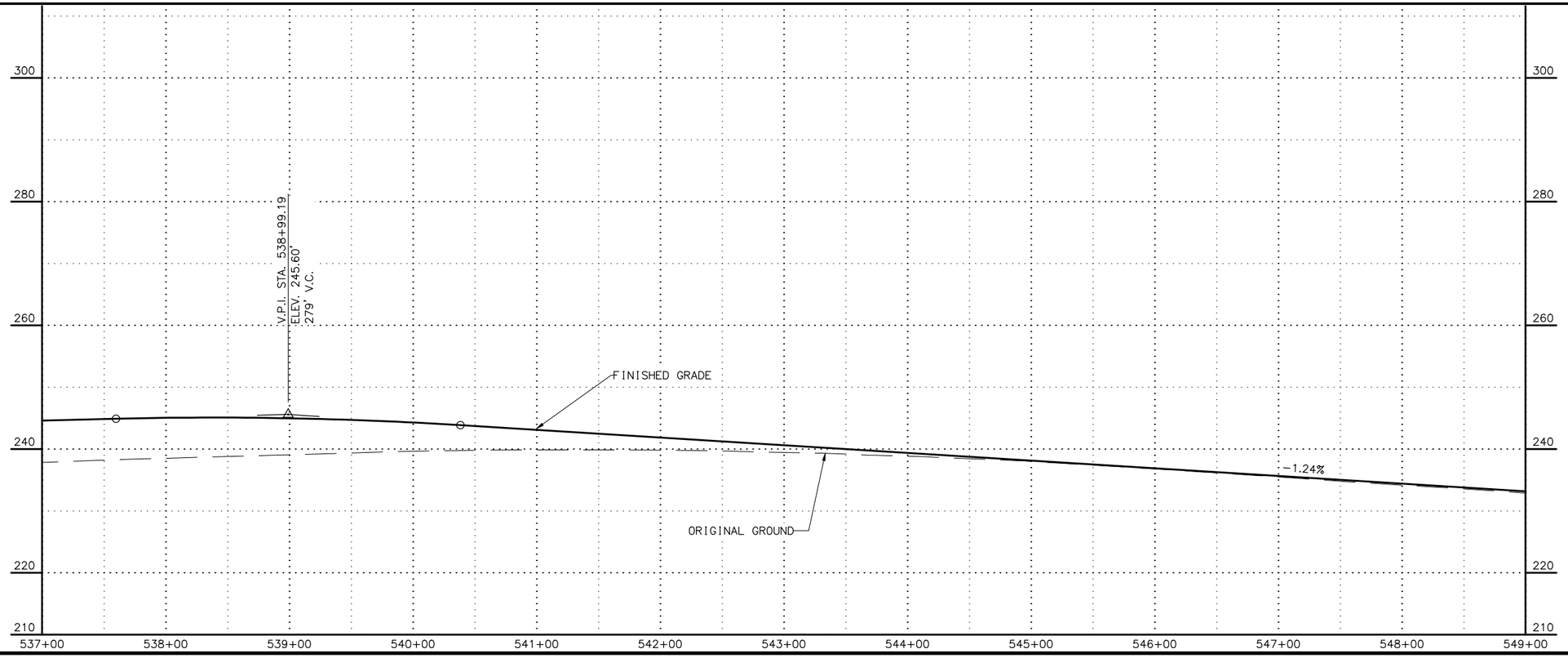
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:52 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

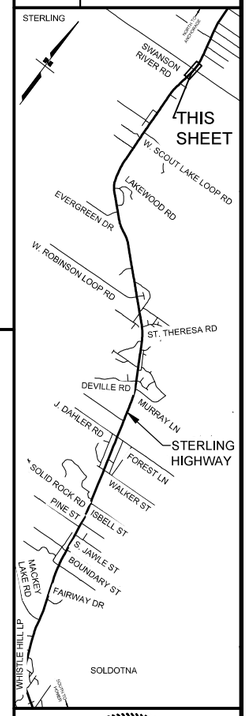




SHEET NO.	TOTAL SHEETS
F44	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

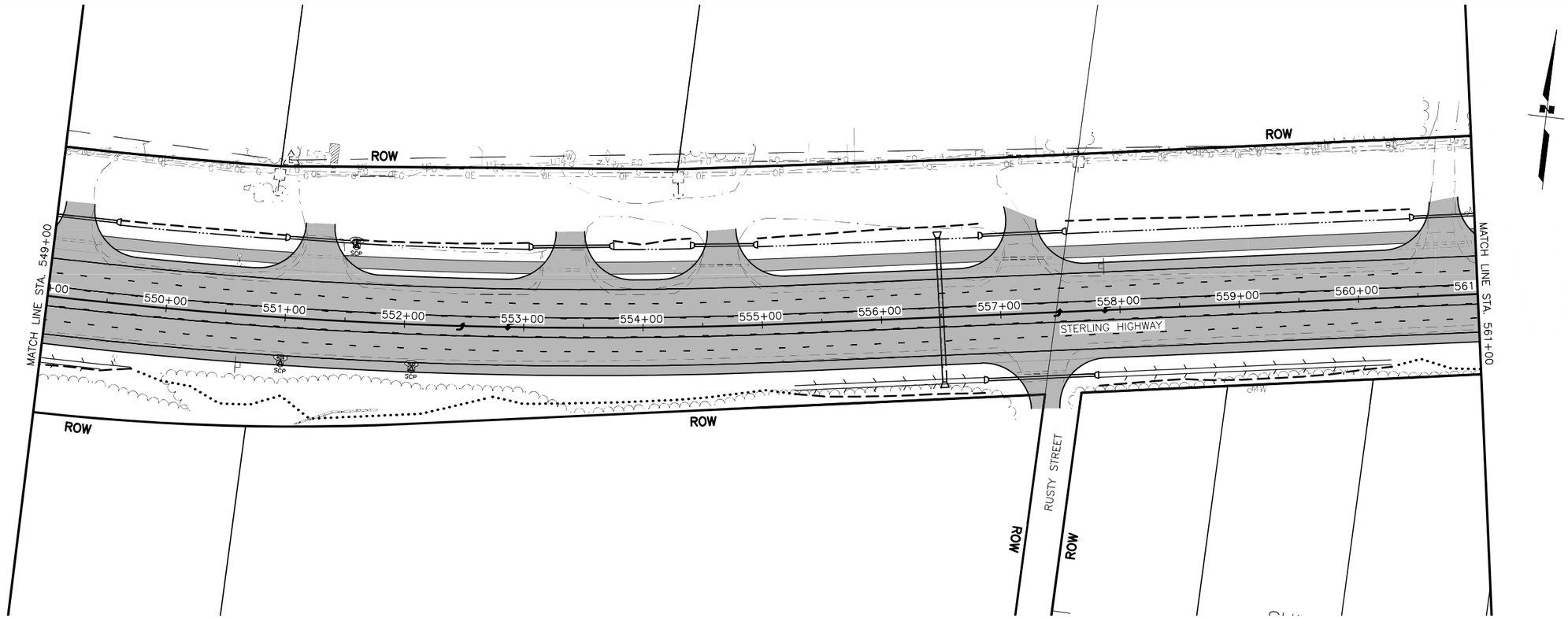
PLAN AND PROFILE STA 537+00 TO STA 549+00

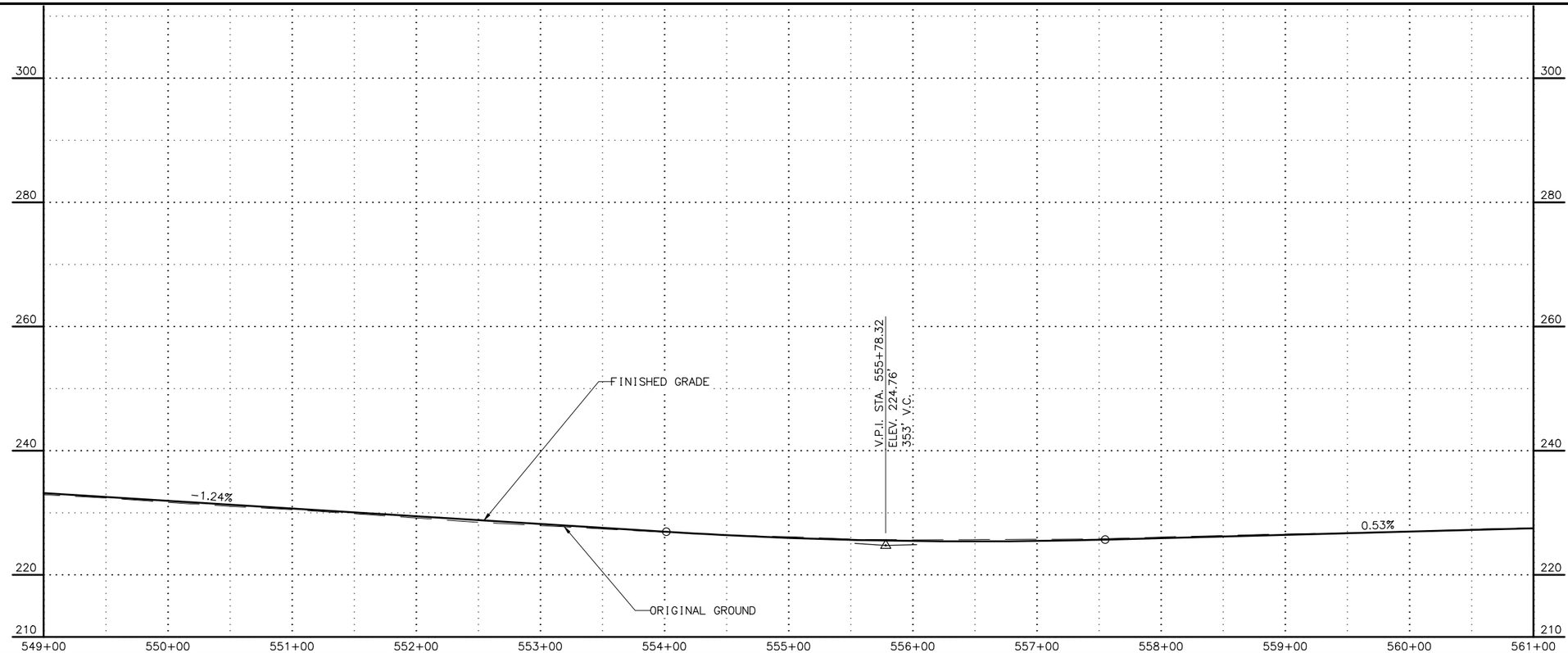
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:52 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-2.DWG

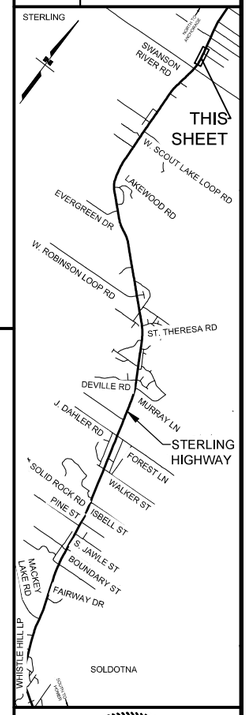




SHEET NO.	TOTAL SHEETS
F45	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR FINAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

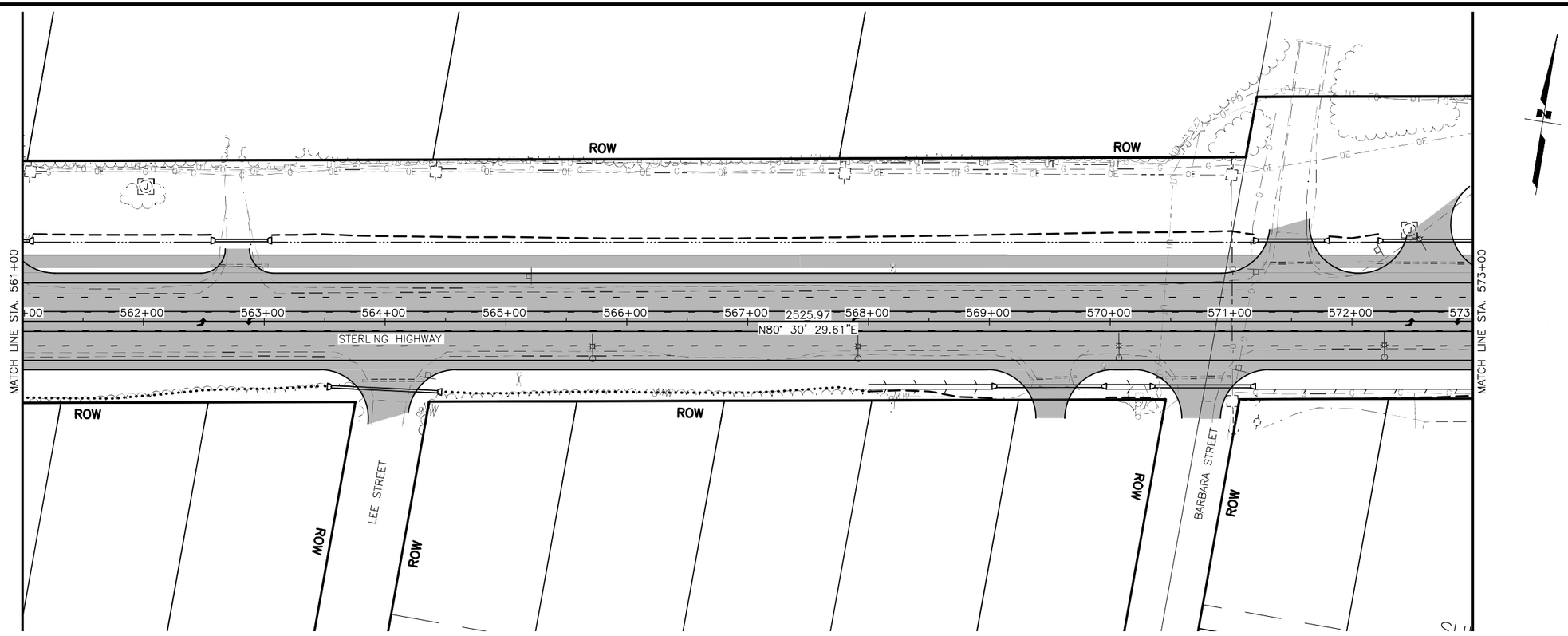
PLAN AND PROFILE STA 549+00 TO STA 561+00

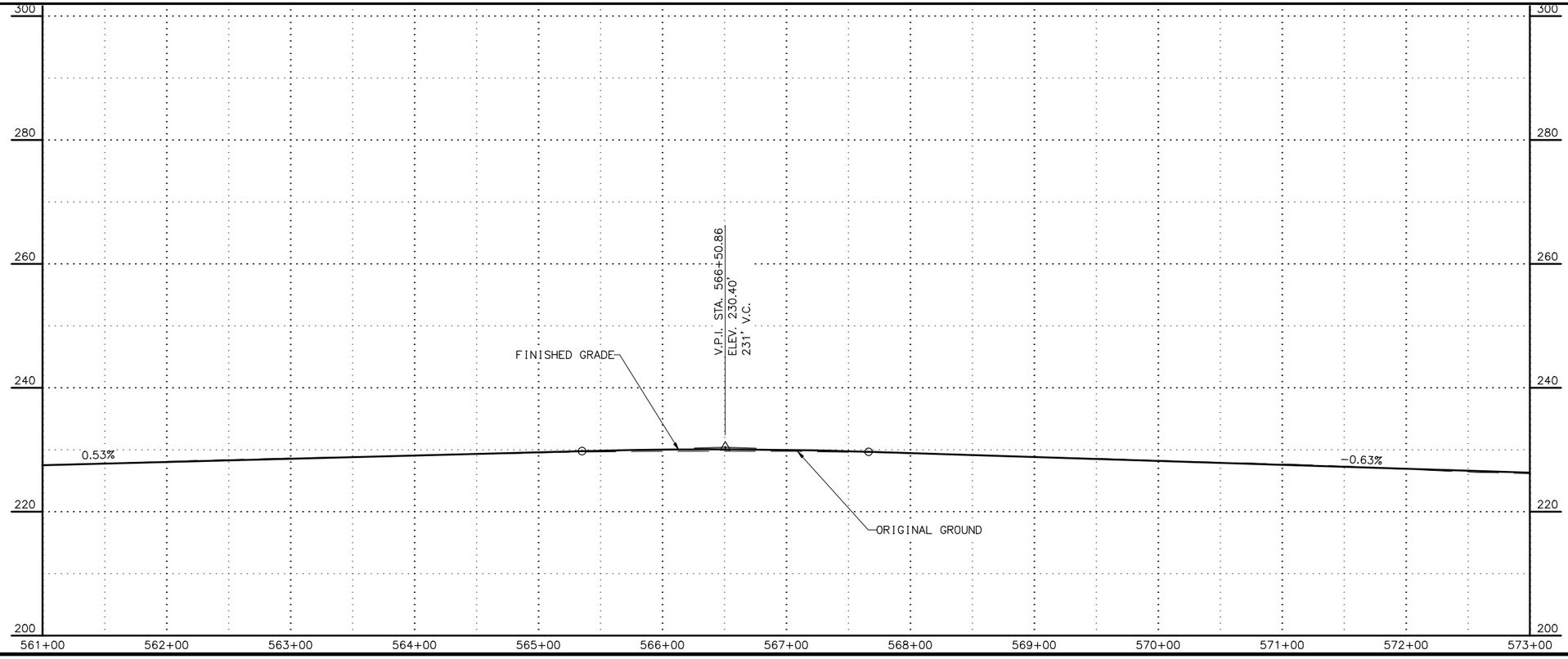
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:52 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP_2.DWG

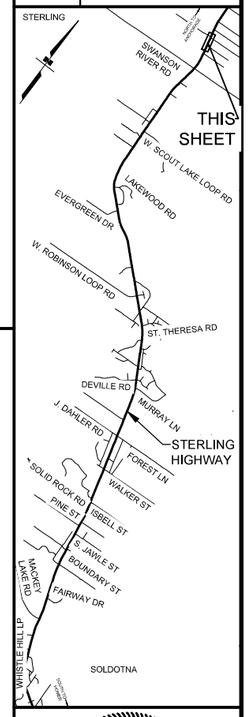




SHEET NO.	TOTAL SHEETS
F46	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4TH
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

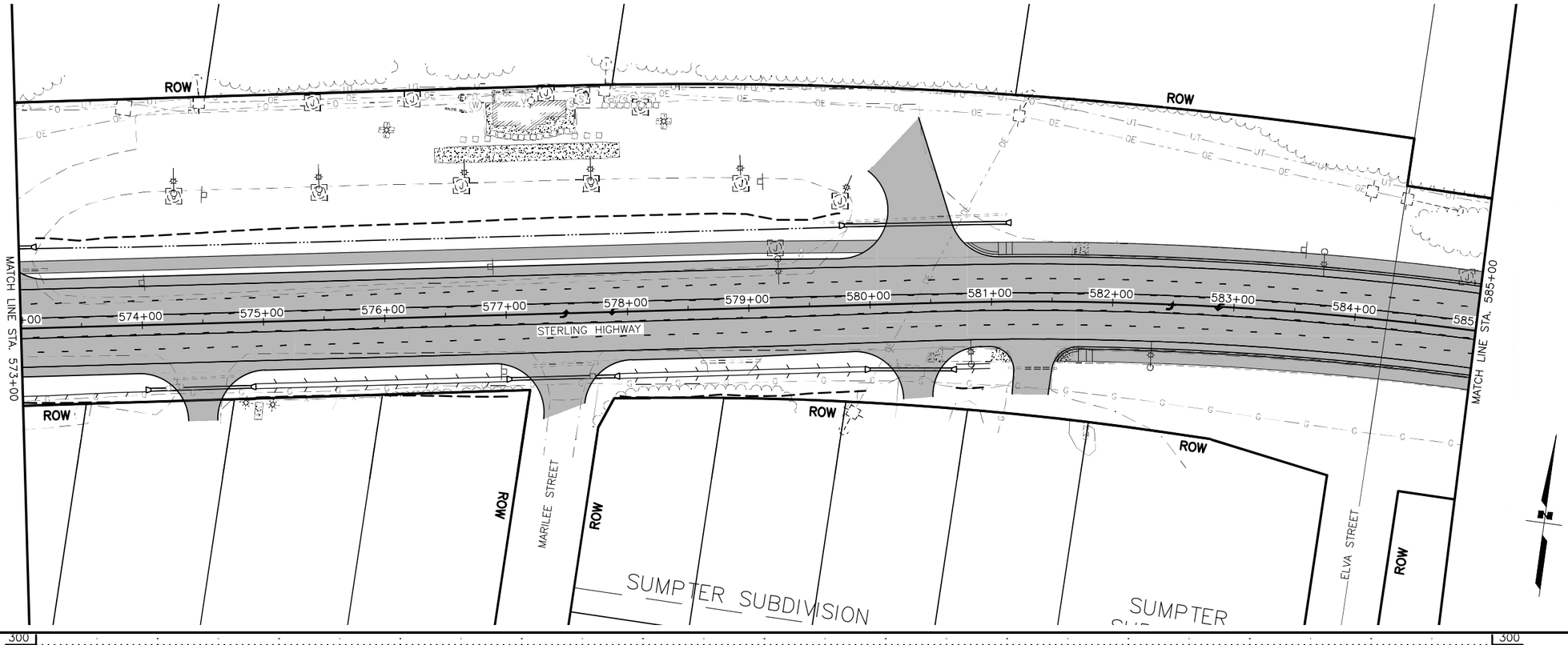
PLAN AND PROFILE STA 561+00 TO STA 573+00

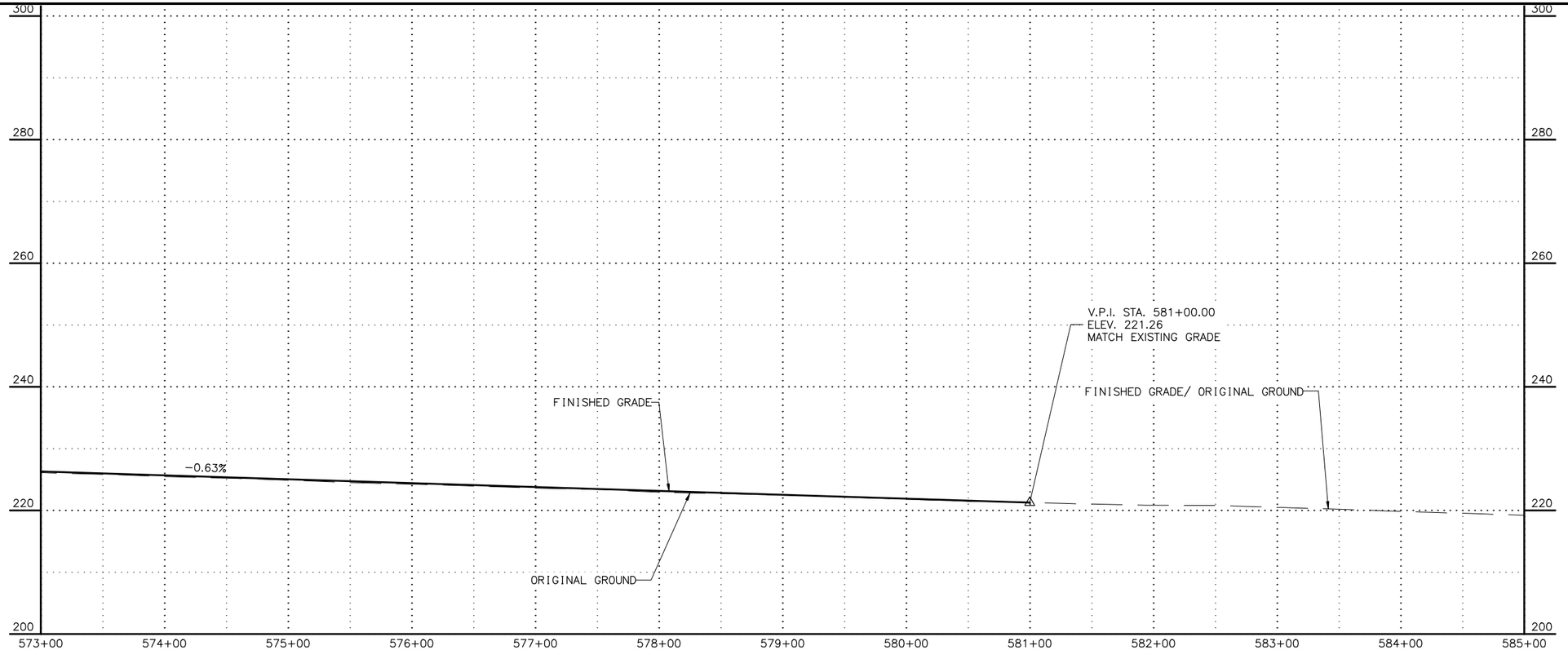
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:52 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP_2.DWG

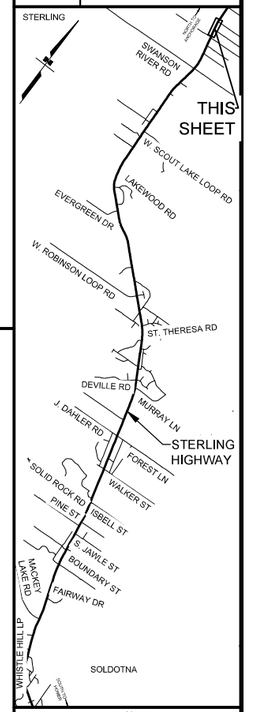




SHEET NO.	TOTAL SHEETS
F47	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT MANAGER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PLAN AND PROFILE STA 573+00 TO STA 585+00

UNSUBDIVIDED

END PROJECT
STA. 596+75.64
MATCH EXISTING PAVEMENT
N 92555.5484
E 190252.5099

MATCH LINE STA. 585+00

ROW

STERLING HIGHWAY

586+00 587+00 588+00 589+00 590+00 591+00 592+00 593+00 594+00 595+00 596+00 597

1349.13
S89° 32' 54.62"E

AIRCRAFT LANDING AREA

280 260 240 220 200 190

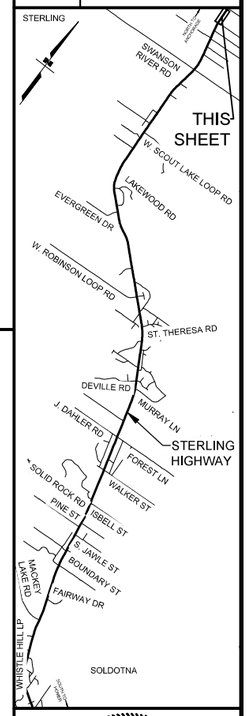
FINISHED GRADE/ ORIGINAL GROUND

585+00 586+00 587+00 588+00 589+00 590+00 591+00 592+00 593+00 594+00 595+00 596+00 597+00

SHEET NO.	TOTAL SHEETS
F48	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR FINAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PLAN AND PROFILE
STA 585+00 TO
STA 596+76

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = 50'

DATE 6/26/2025 TIME 8:53 AM

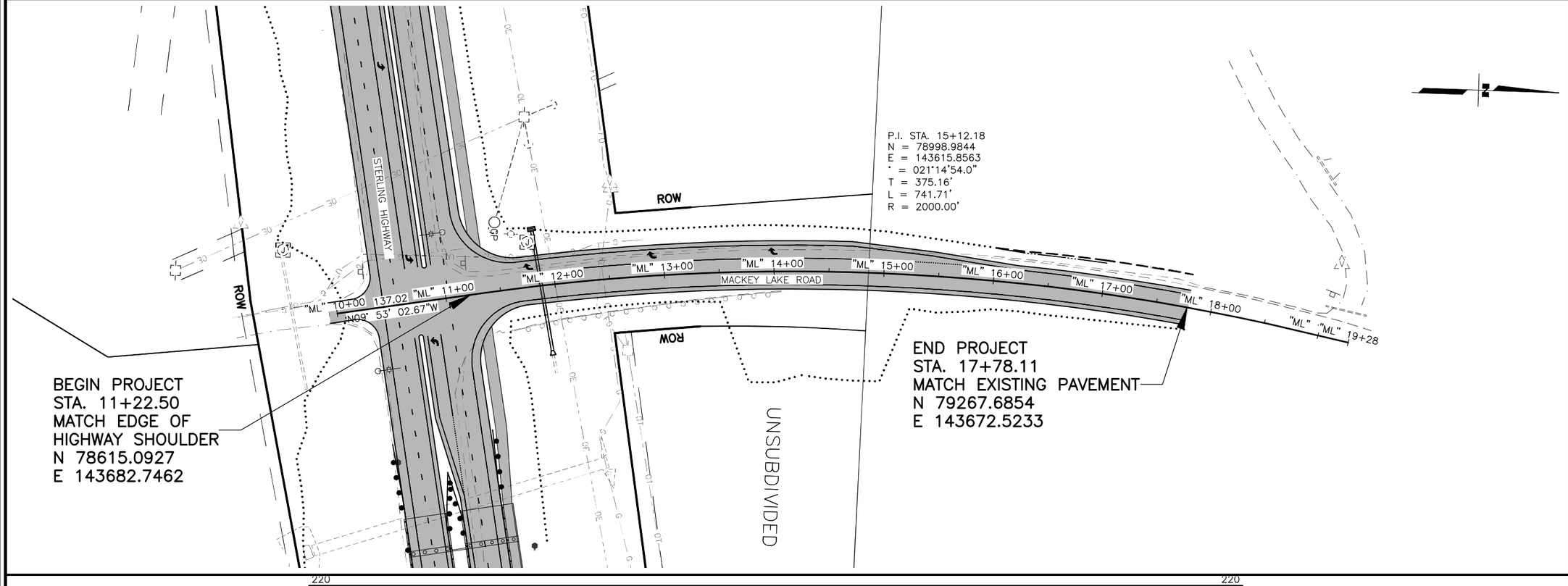
DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-2.DWG

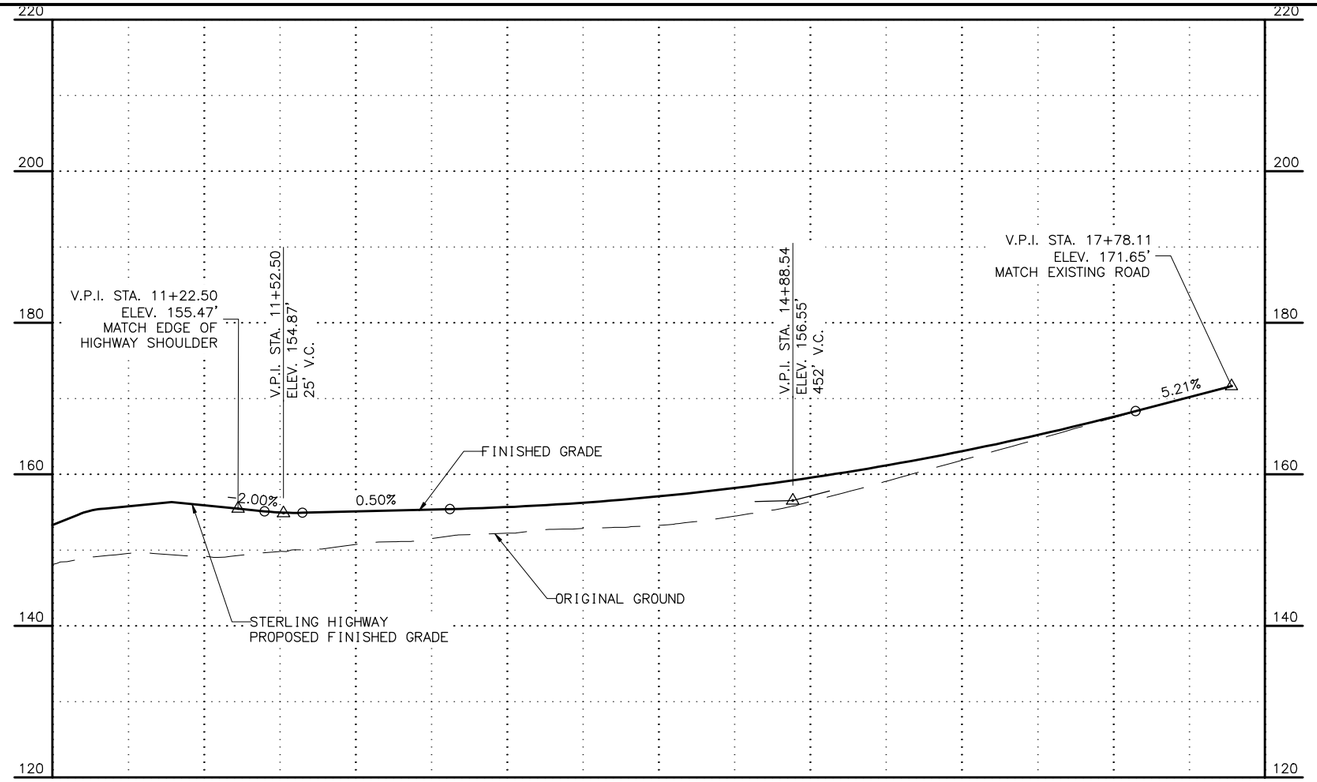
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:30 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

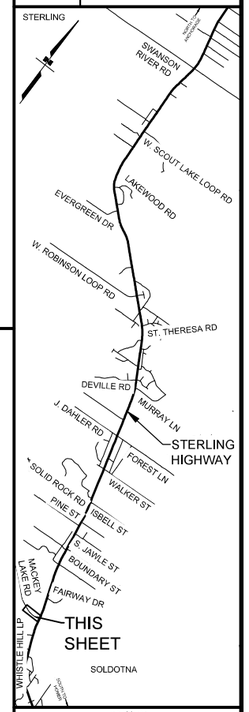




SHEET NO.	TOTAL SHEETS
F49	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



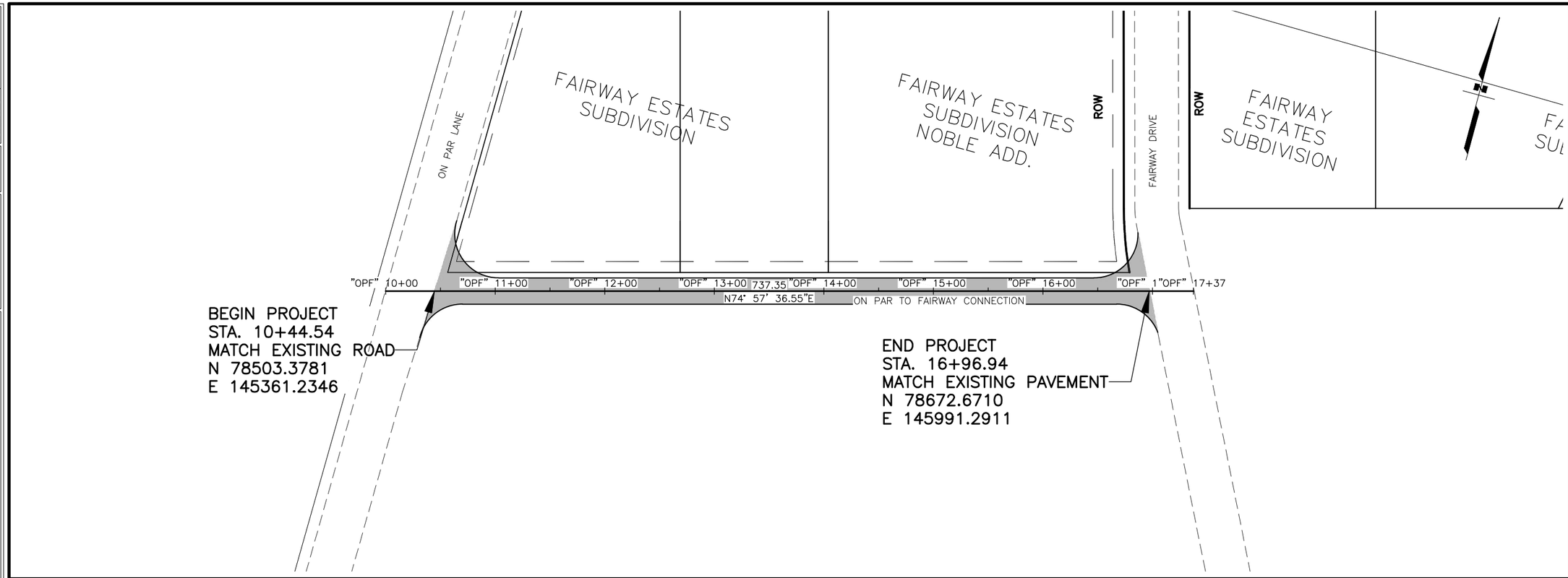
STATE OF ALASKA
JOHN H. HOLTH
LICENSED PROFESSIONAL ENGINEER
PROJECT MANAGER
PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

MACKEY LAKE ROAD
PLAN AND PROFILE



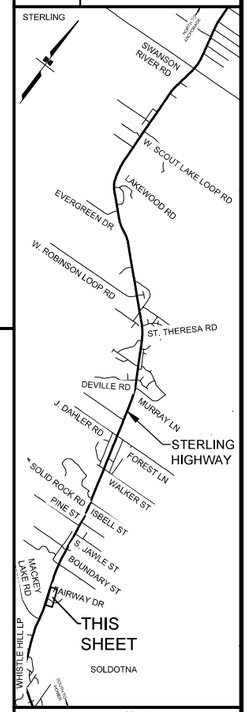
PROFILE DESIGN PENDING ADDITIONAL SURVEY

SHEET NO.	TOTAL SHEETS
F50	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4 OCTOBER 2025
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

ON PAR FAIRWAY
CONNECTION
PLAN AND PROFILE

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:30 AM

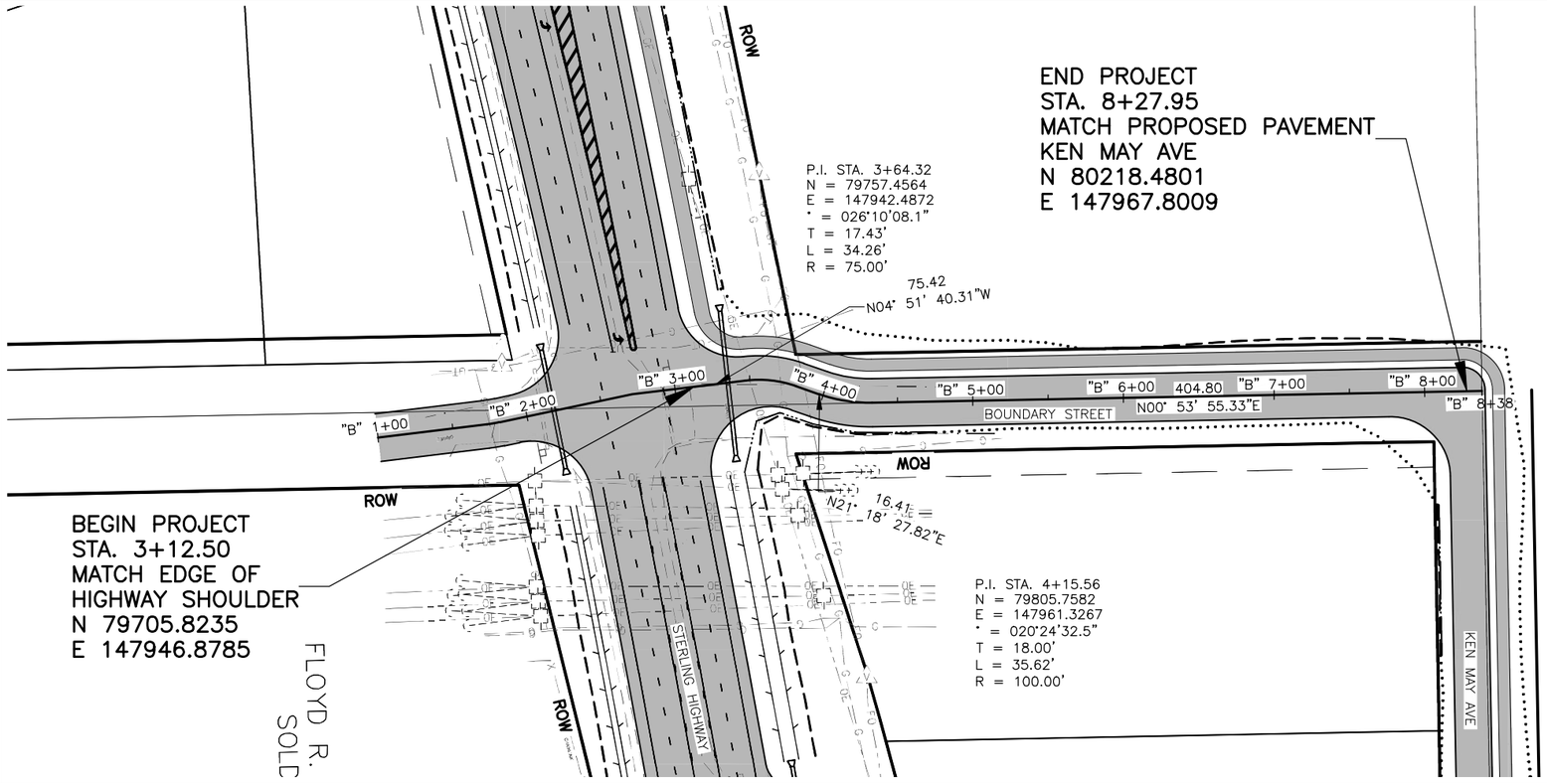
DRAWING LOCATION
C:\DOWL_PW\D04174201\00130_PNP-3.DWG

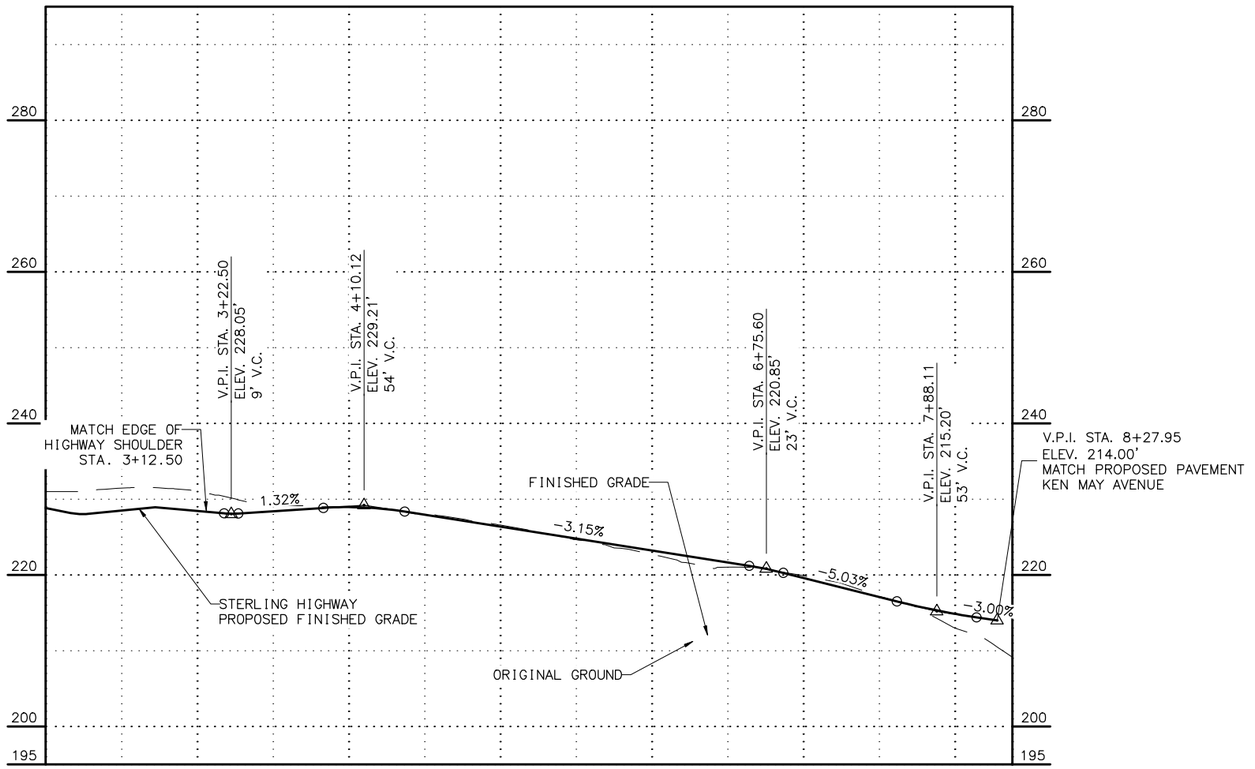
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:30 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-3.DWG





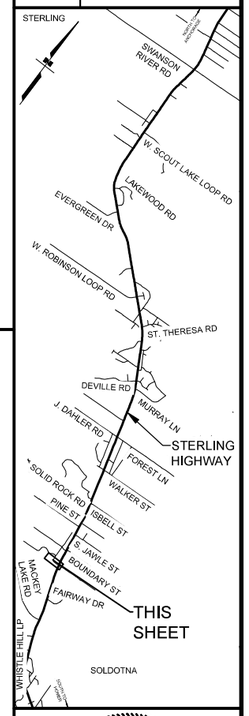
SHEET NO.	TOTAL SHEETS
F51	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

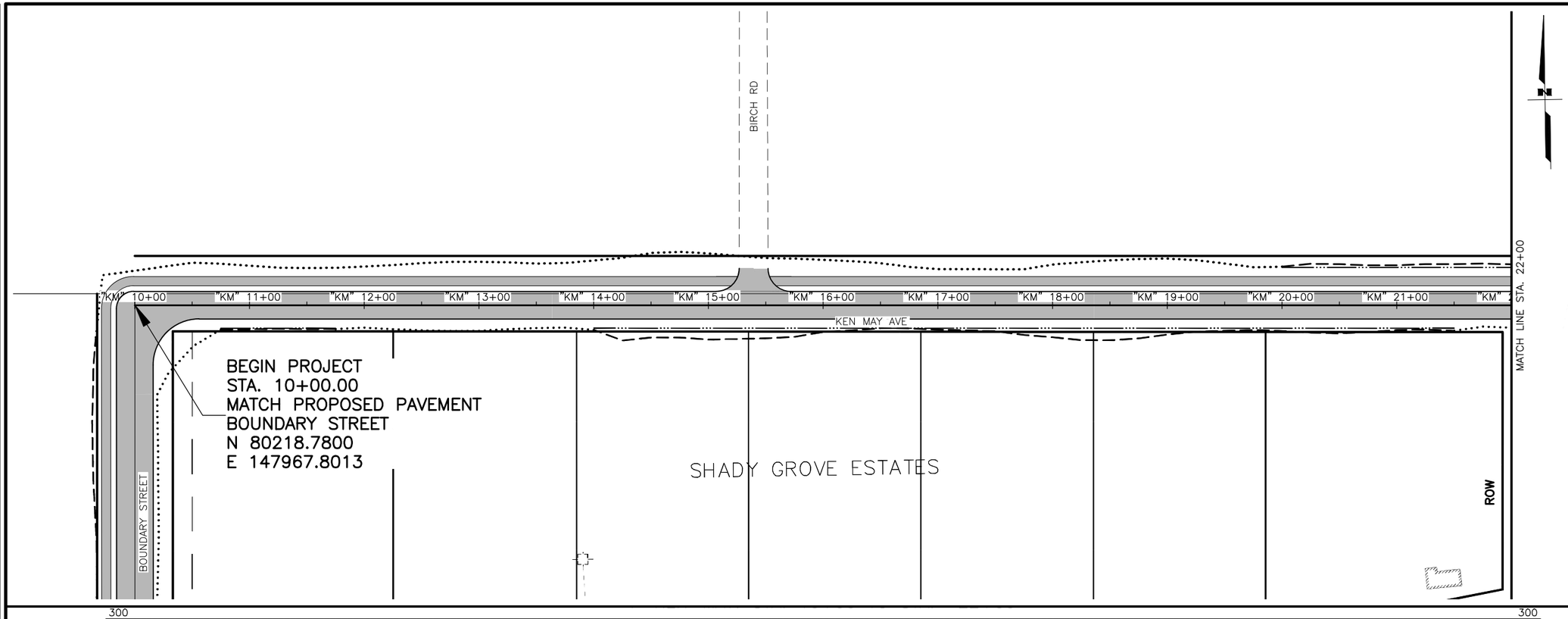
BOUNDARY STREET
PLAN AND PROFILE

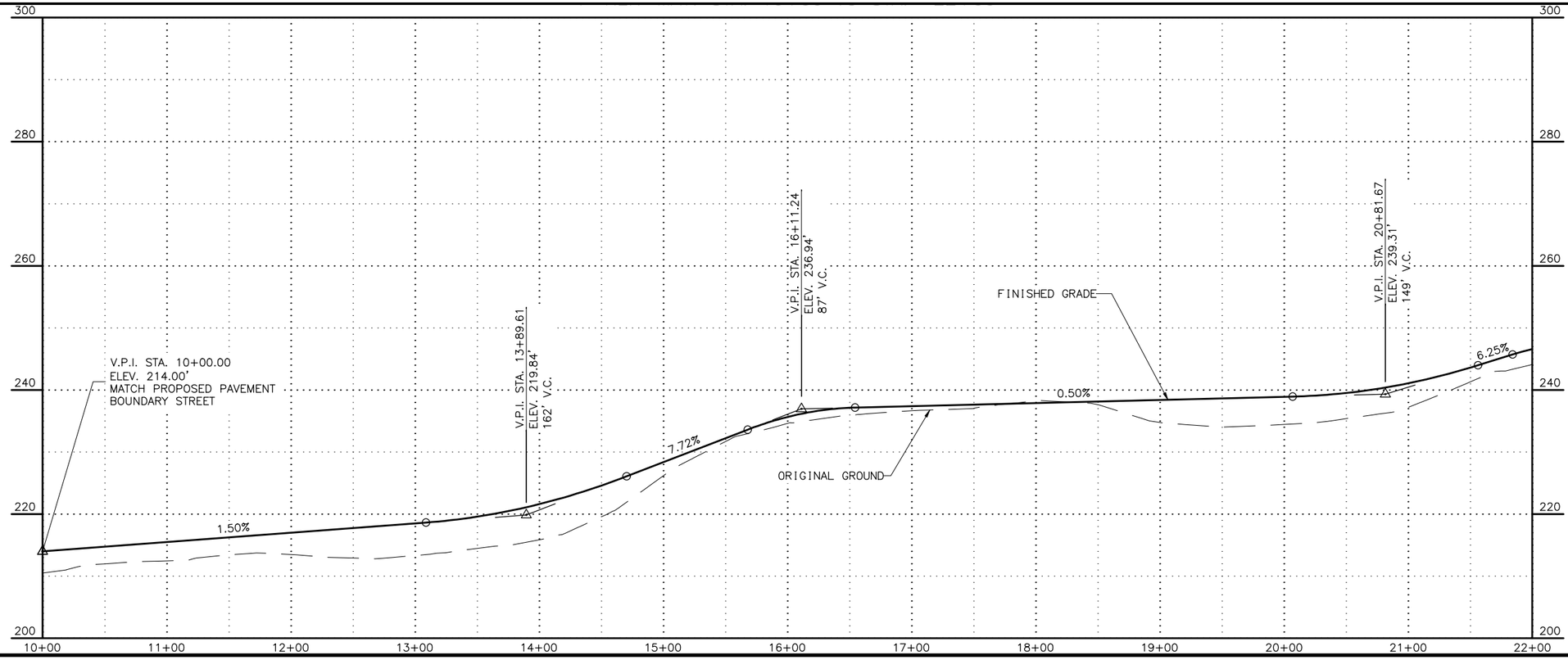
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:31 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

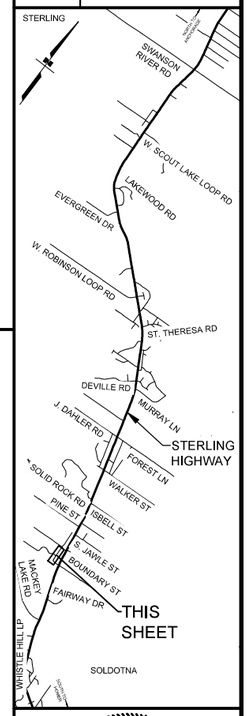




SHEET NO.	TOTAL SHEETS
F52	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

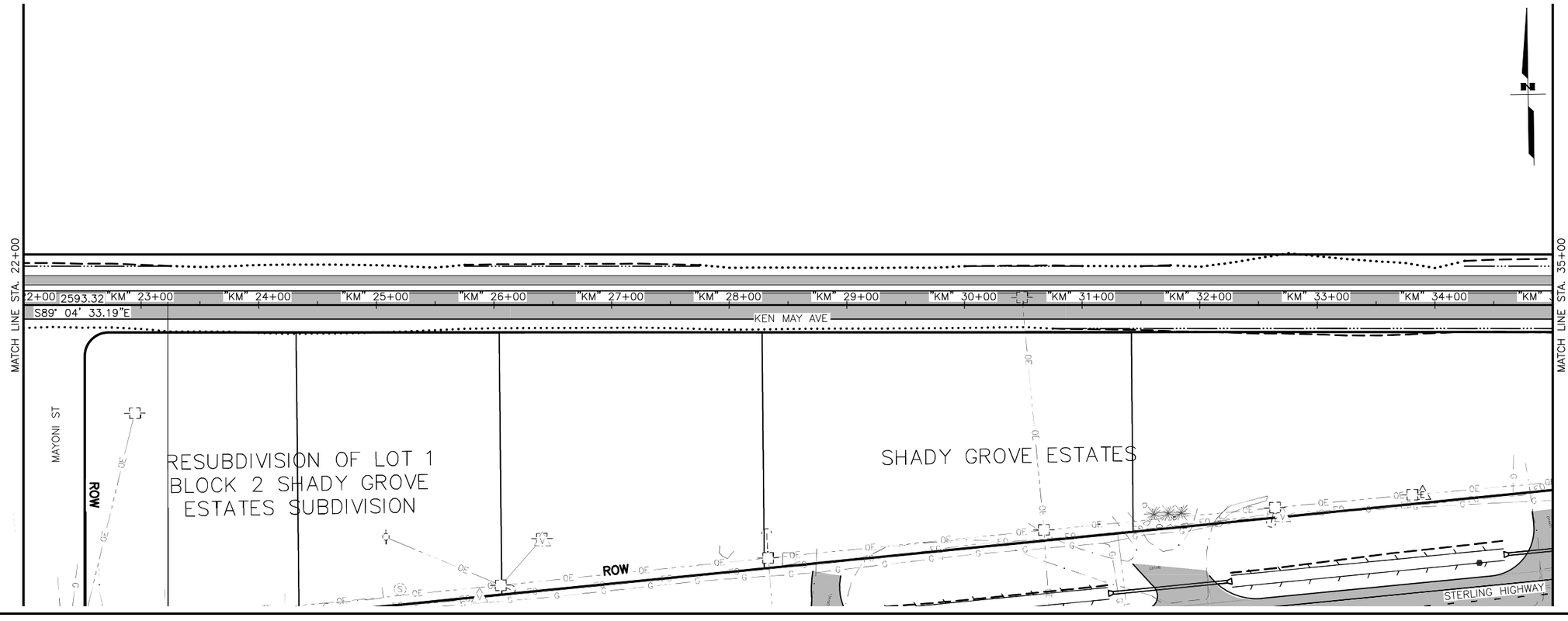
PLAN AND PROFILE "KM" BOP TO "KM" STA. 22+00

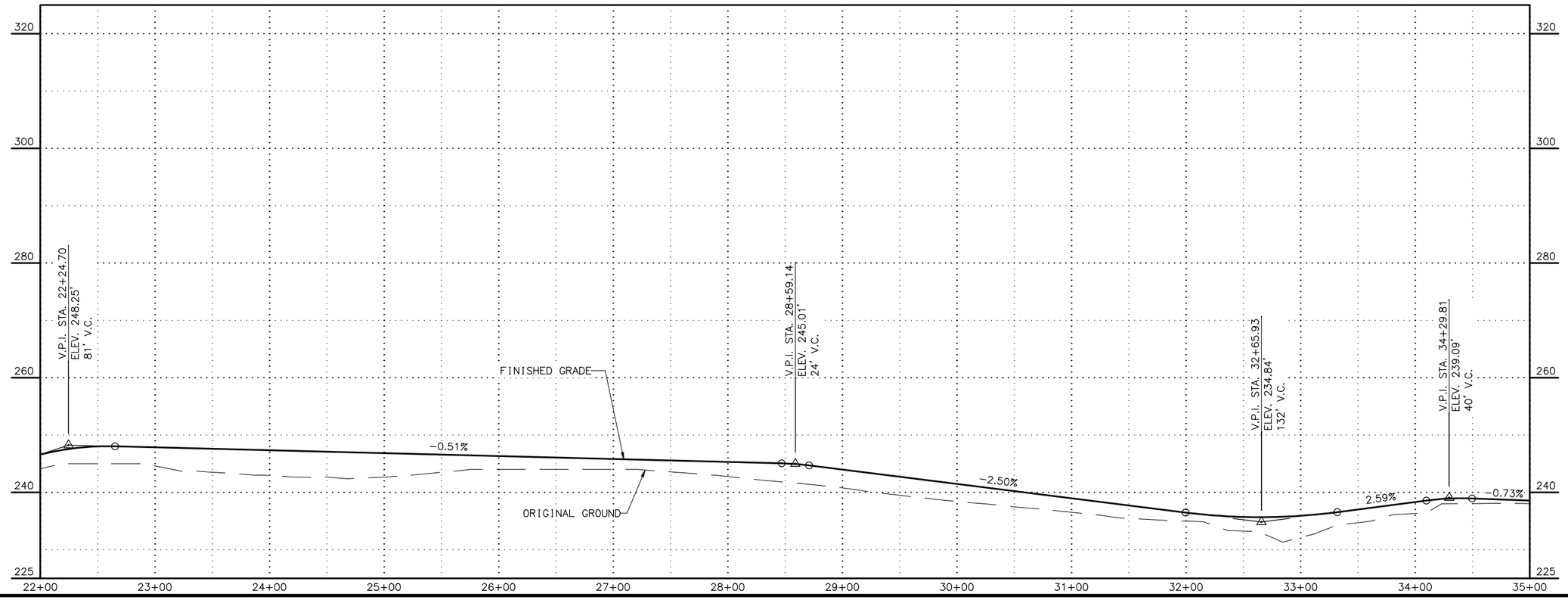
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:31 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

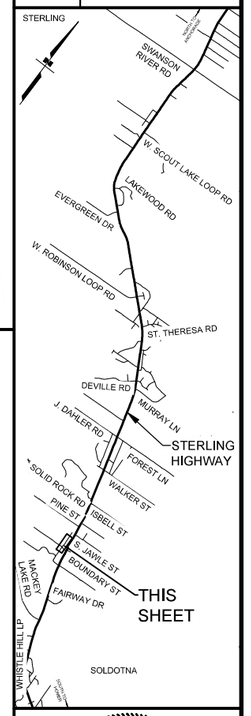




SHEET NO.	TOTAL SHEETS
F53	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PLAN AND PROFILE "KM" STA. 22+00 TO "KM" STA. 35+00

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
X" = XX'

DATE TIME
6/26/2025 9:31 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

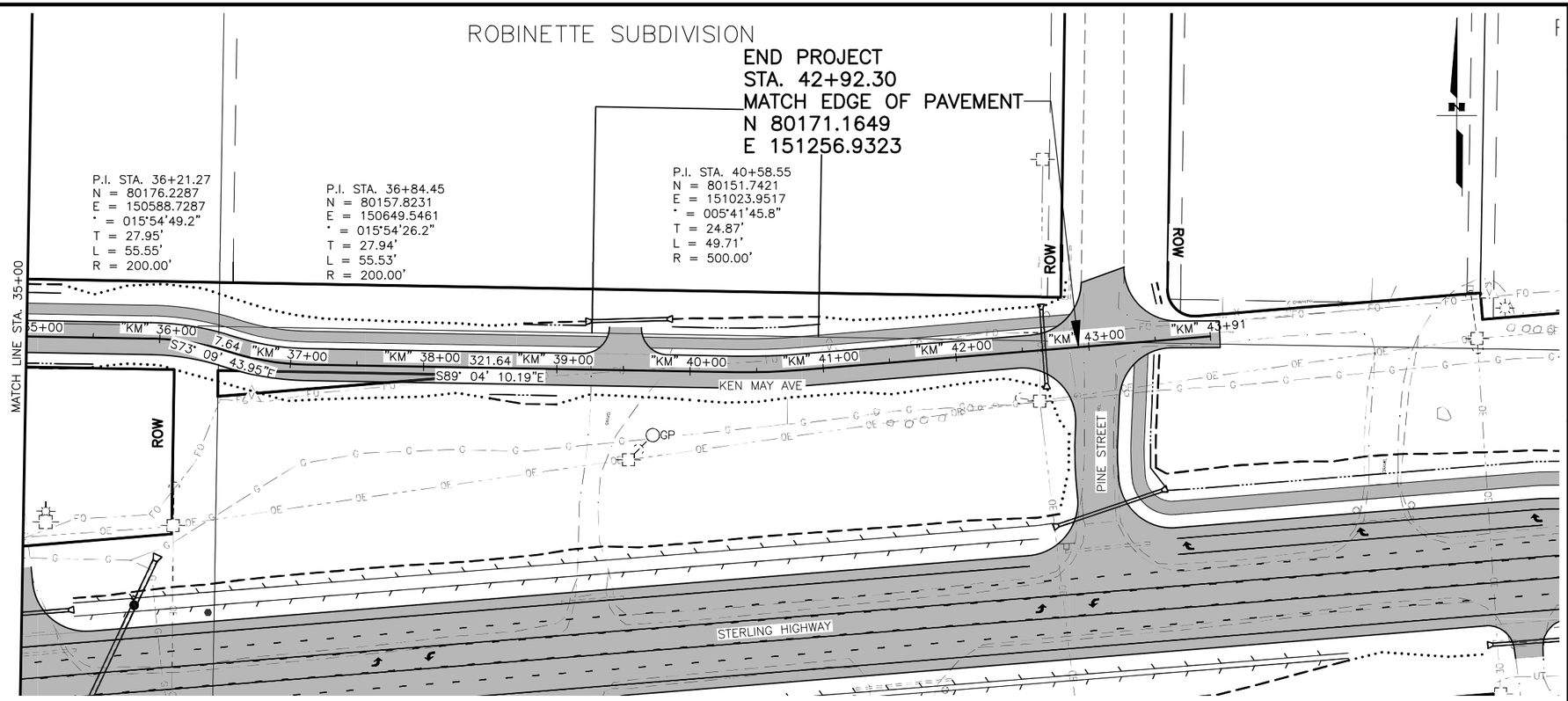
ROBINETTE SUBDIVISION

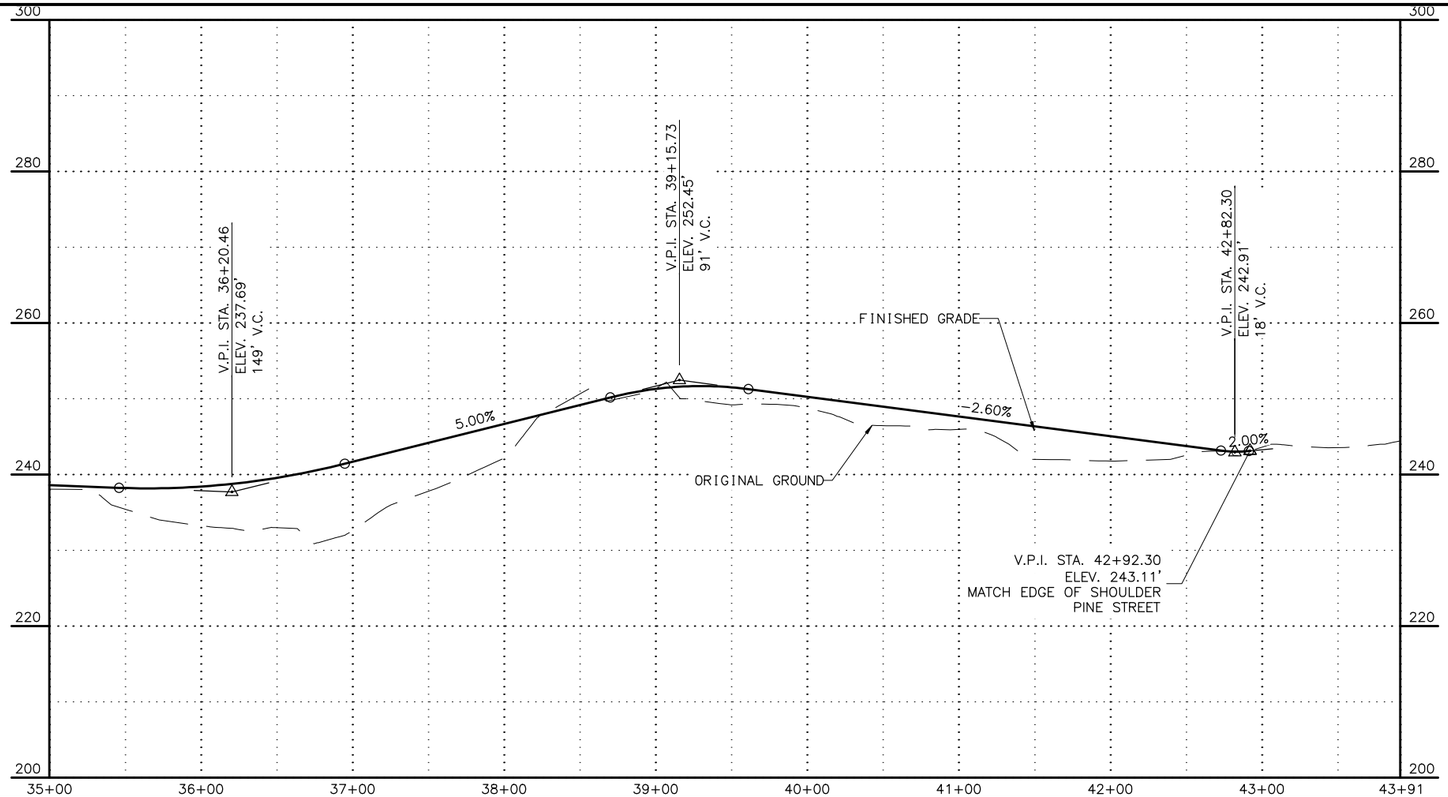
END PROJECT
STA. 42+92.30
MATCH EDGE OF PAVEMENT
N 80171.1649
E 151256.9323

P.I. STA. 36+21.27
N = 80176.2287
E = 150588.7287
Δ = 015°54'49.2"
T = 27.95'
L = 55.55'
R = 200.00'

P.I. STA. 36+84.45
N = 80157.8231
E = 150649.5461
Δ = 015°54'26.2"
T = 27.94'
L = 55.53'
R = 200.00'

P.I. STA. 40+58.55
N = 80151.7421
E = 151023.9517
Δ = 005°41'45.8"
T = 24.87'
L = 49.71'
R = 500.00'

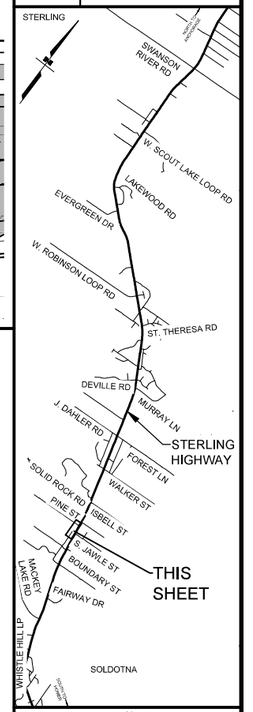




SHEET NO.	TOTAL SHEETS
F54	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

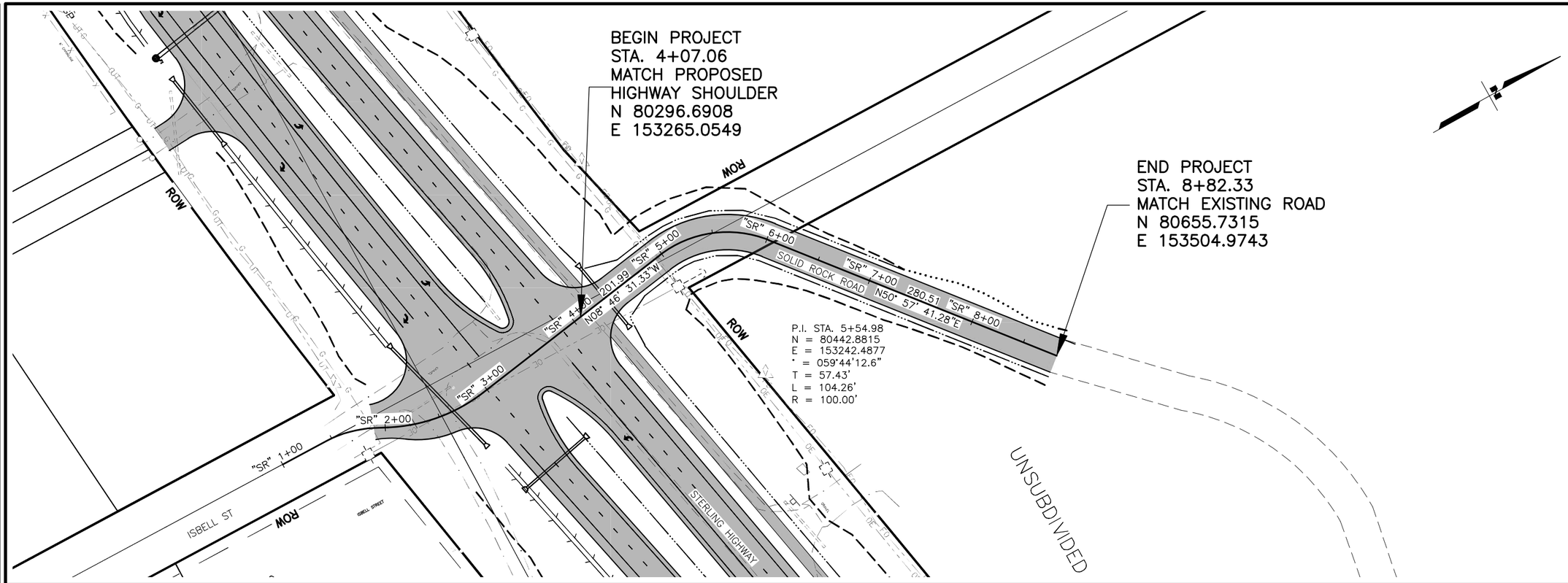
PLAN AND PROFILE
"KM" STA. 35+00 TO
"KM" EOP

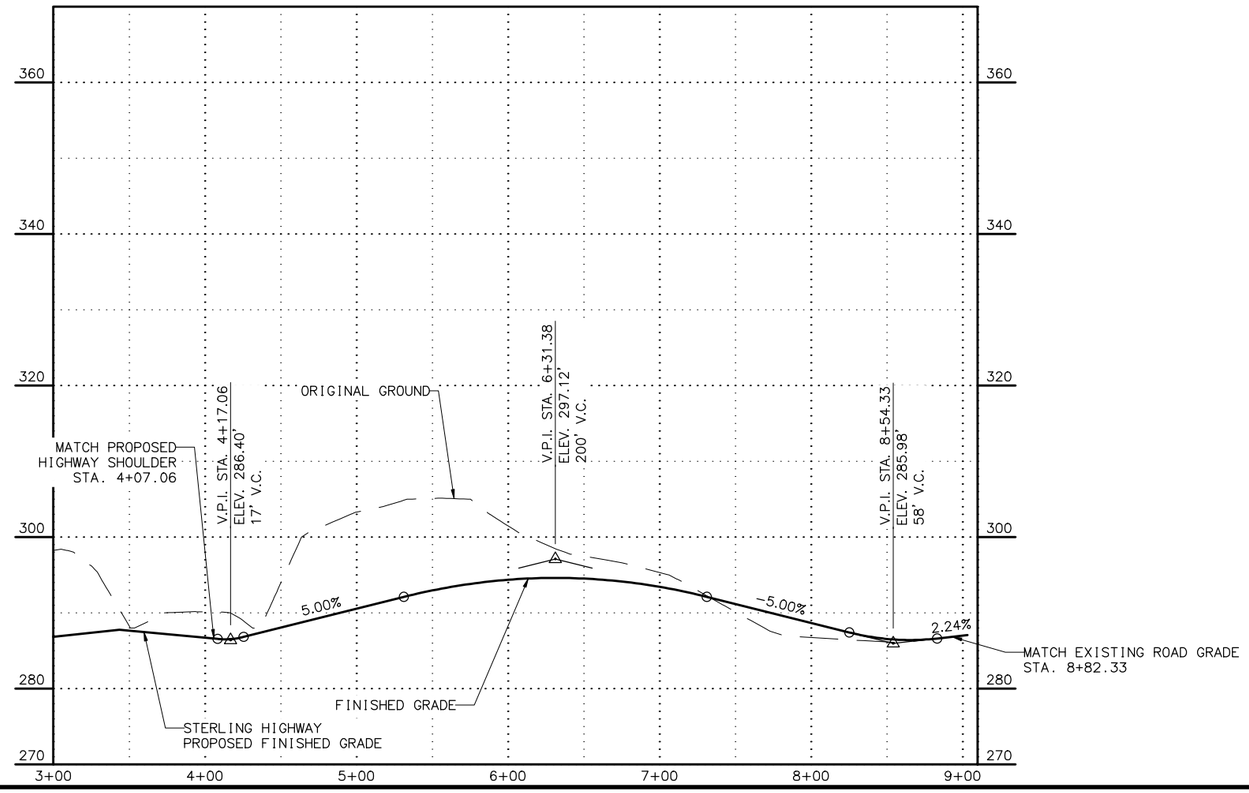
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE 1" = X'

DATE 6/26/2025 TIME 9:31 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-3.DWG

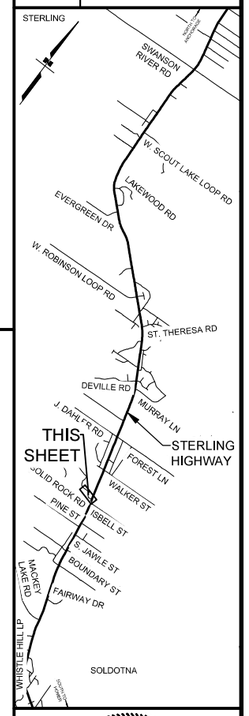




SHEET NO.	TOTAL SHEETS
F55	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR FINAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

SOLID ROCK ROAD REALIGNMENT PLAN AND PROFILE

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:32 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

WALKER ST

BERGSRUD SUBDIVISION AMENDED

"BB" 10+00 "BB" 11+00 "BB" 12+00 "BB" 13+00 "BB" 14+00 "BB" 15+00 "BB" 16+00 "BB" 17+00 "BB" 18+00 "BB" 19+00 "BB" 20+00 "BB" 21+00 "BB" 2

BERGSRUD BLVD

MATCH LINE STA. 22+00

BEGIN PROJECT
STA. 10+59.58
MATCH EXISTING ROAD
N 80312.8249
E 155913.4423

340
320
300
280
260
240

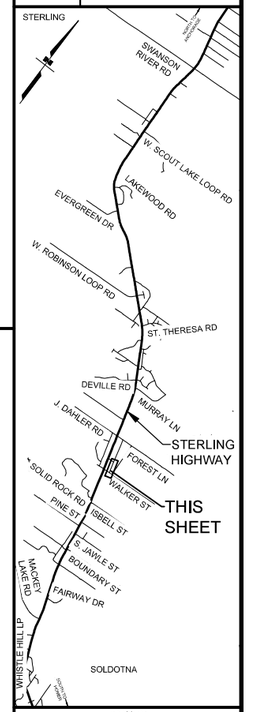
PROFILE DESIGN PENDING
ADDITIONAL SURVEY

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

SHEET NO.	TOTAL SHEETS
F56	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
4 OTH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PLAN AND PROFILE
"BB" BOP TO
"BB" STA. 22+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:32 AM

DRAWING LOCATION
C:\DOWL_PW\D04174200\00130_PNP-3.DWG

BERGSRUD SUBDIVISION AMENDED

MATCH LINE STA. 22+00

MATCH LINE STA. 35+00

2+00 "BB" 23+00 2783.64 "BB" 24+00 "BB" 25+00 "BB" 26+00 "BB" 27+00 "BB" 28+00 "BB" 29+00 "BB" 30+00 "BB" 31+00 "BB" 32+00 "BB" 33+00 "BB" 34+00 "BB"

N77° 59' 29.29"E

BERGSRUD BLVD

340
320
300
280
260
240

0.00%

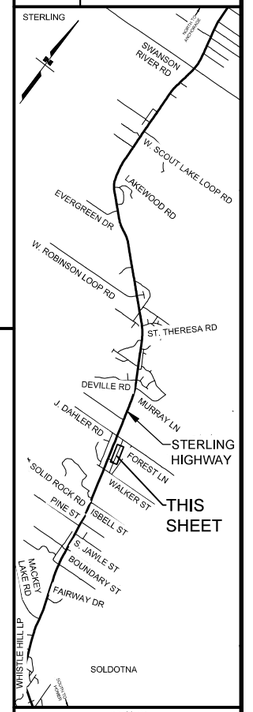
PROFILE DESIGN PENDING
ADDITIONAL SURVEY

22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00

SHEET NO.	TOTAL SHEETS
F57	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



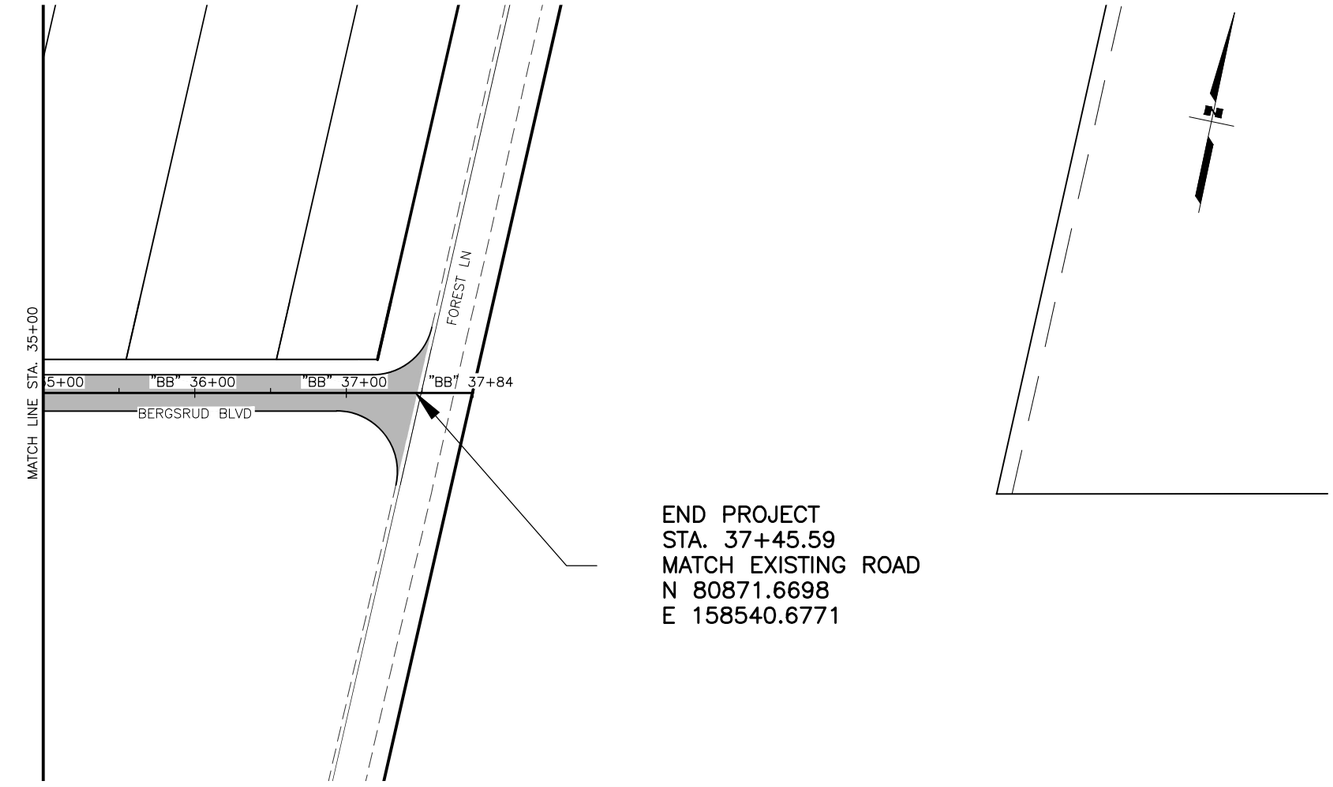
STATE OF ALASKA
4 OCT 25
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

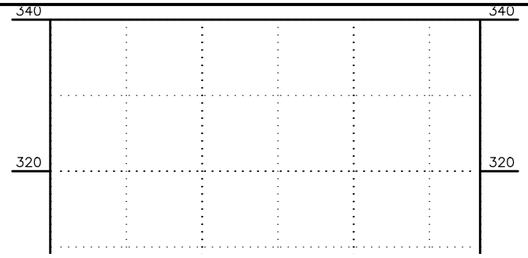
PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

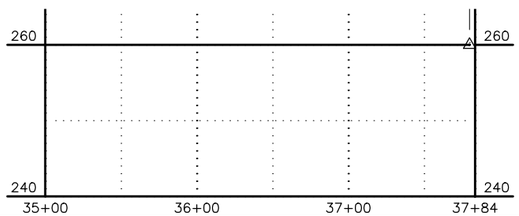
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PLAN AND PROFILE
"BB" STA. 22+00 TO
"BB" STA. 35+00





PROFILE DESIGN PENDING ADDITIONAL SURVEY



SHEET NO.	TOTAL SHEETS
F58	F67
STATE	YEAR
ALASKA	2025

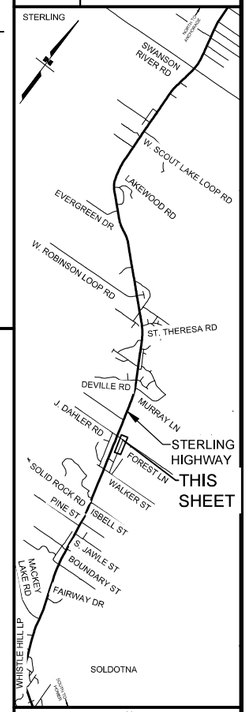
PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
PROFESSIONAL ENGINEER

LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

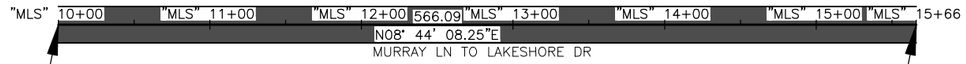
PLAN AND PROFILE
"BB" STA. 35+00 TO
"BB" EOP

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

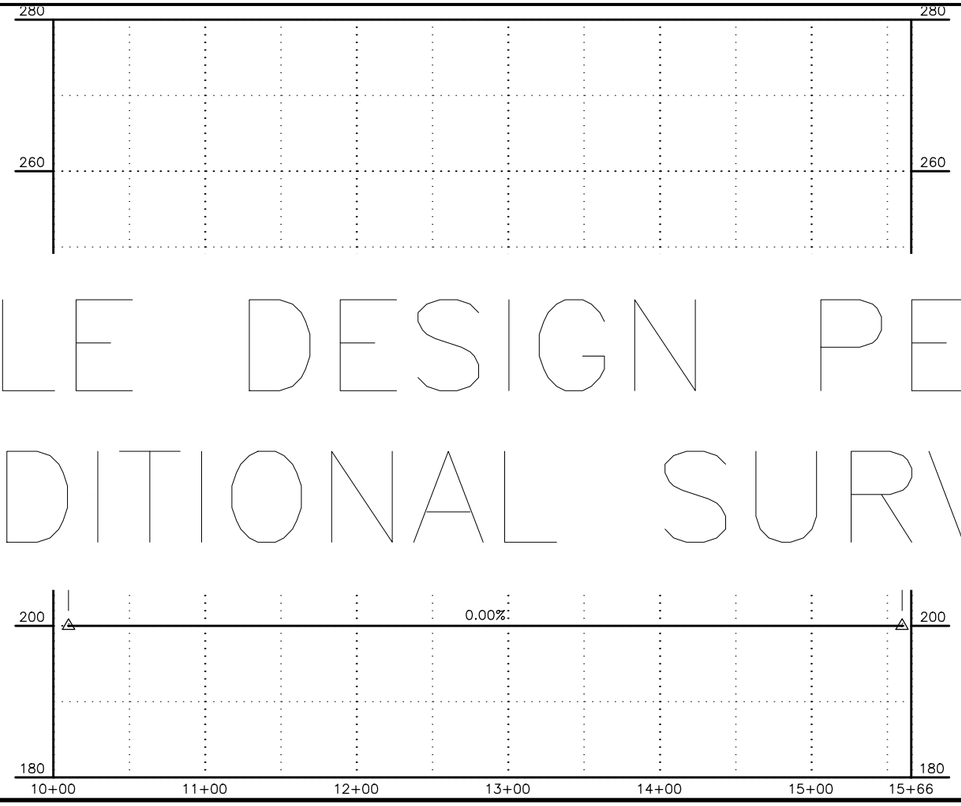
DATE TIME
6/26/2025 9:32 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG



BEGIN PROJECT
STA. 10+00.00
MATCH EXISTING PAVEMENT
N 80055.8940
E 163204.7672

END PROJECT
STA. 15+66.09
MATCH EXISTING PAVEMENT
N 80615.4185
E 163290.7426

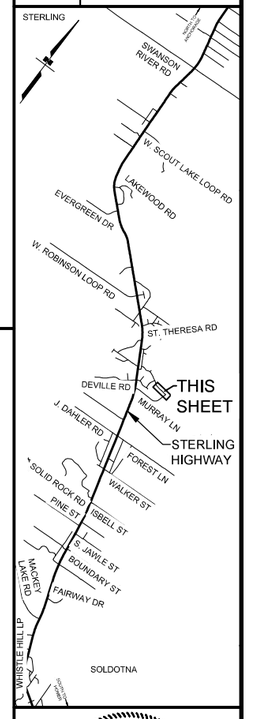


PROFILE DESIGN PENDING ADDITIONAL SURVEY

SHEET NO.	TOTAL SHEETS
F59	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
OA33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
PROFESSIONAL ENGINEER
LOCAL REVIEW
PROJECT ENGINEER
DATE

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

MURRAY LN TO LAKE SHORE CONNECTION PLAN AND PROFILE

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE TIME
6/26/2025 9:32 AM

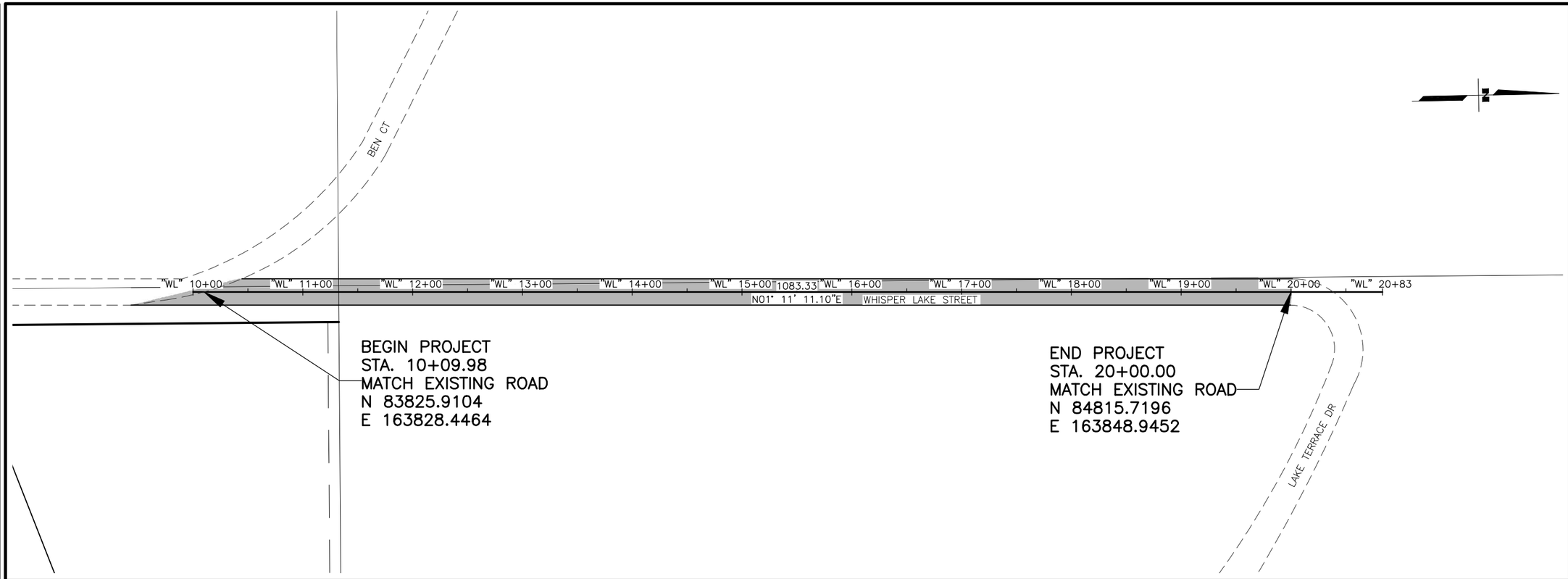
DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

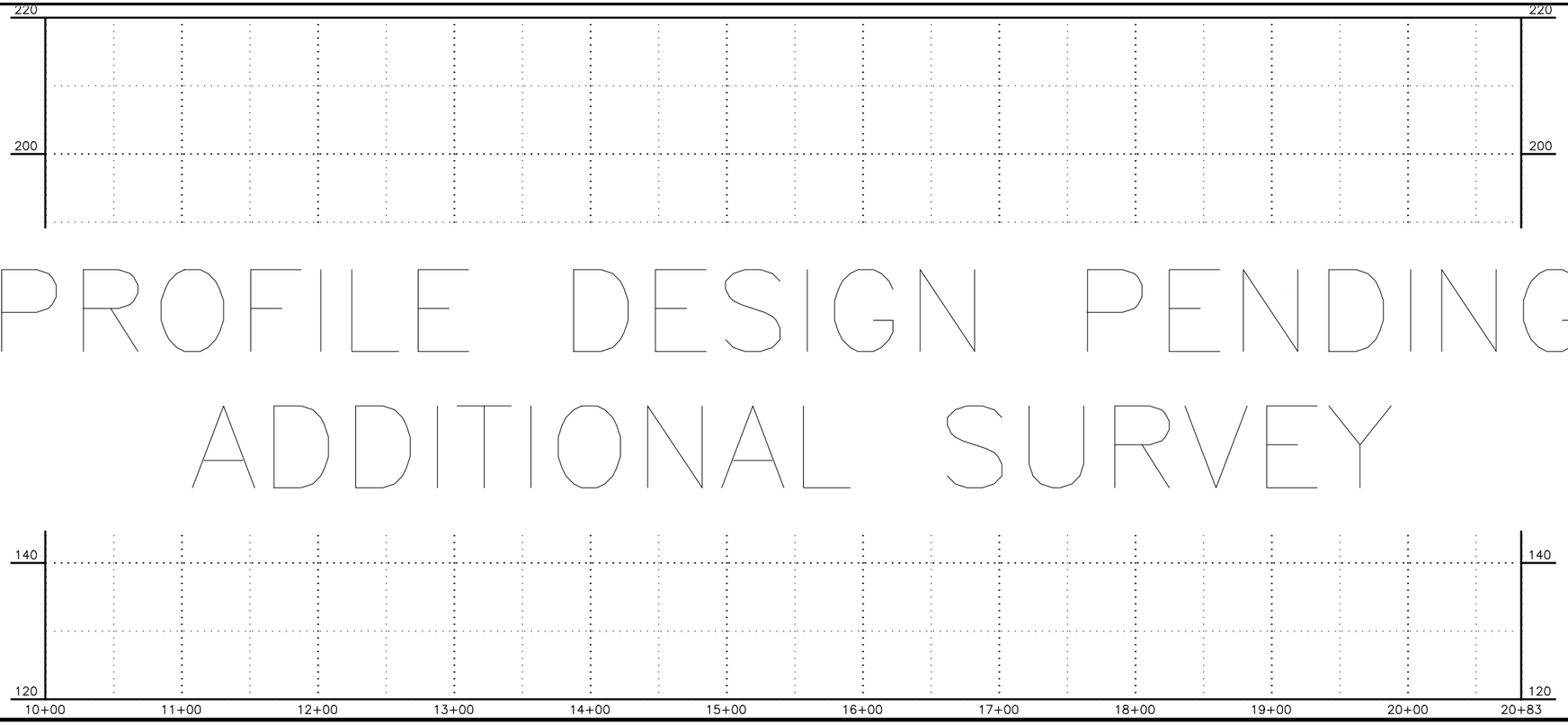
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:33 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG





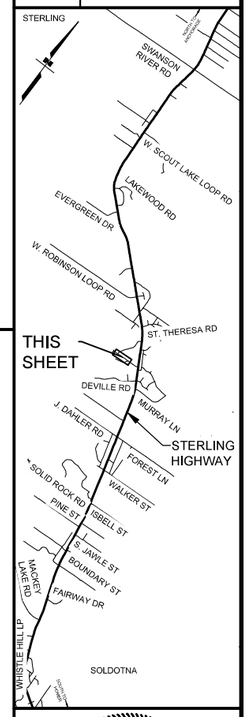
PROFILE DESIGN PENDING

ADDITIONAL SURVEY

SHEET NO.	TOTAL SHEETS
F60	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
SCOTT A. HEIDT
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

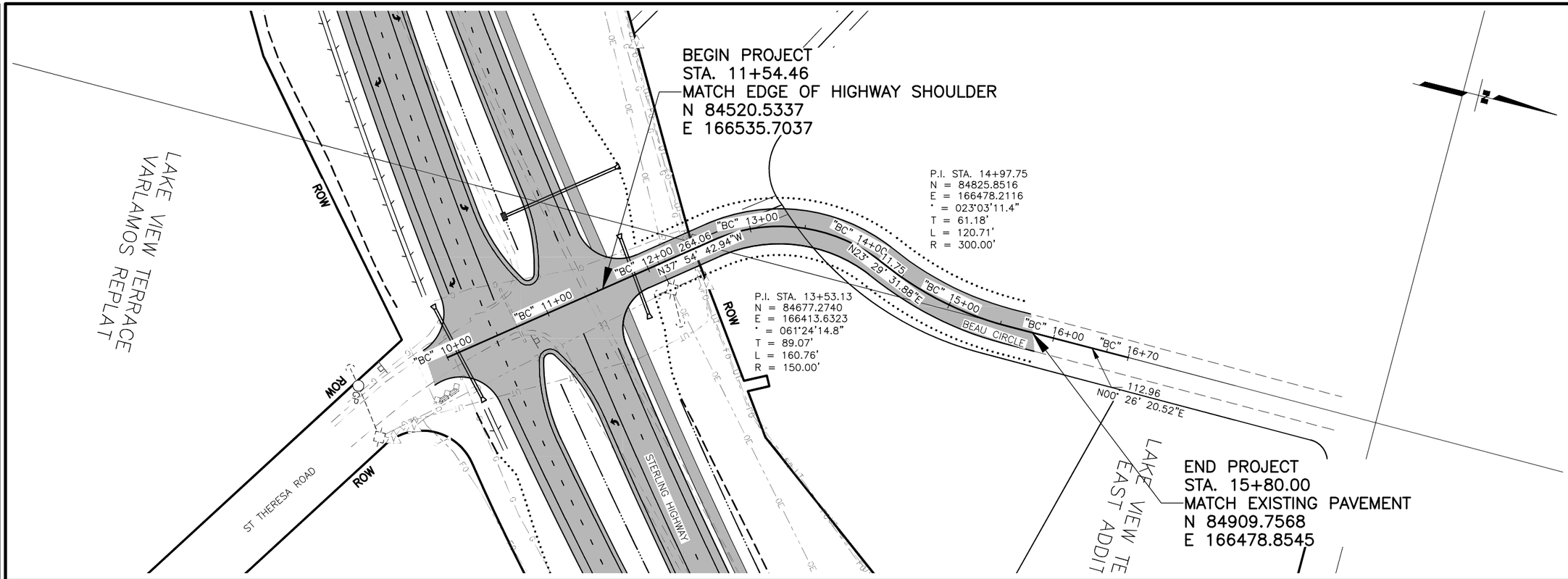
WHISPER LAKE EXTENSION PLAN AND PROFILE

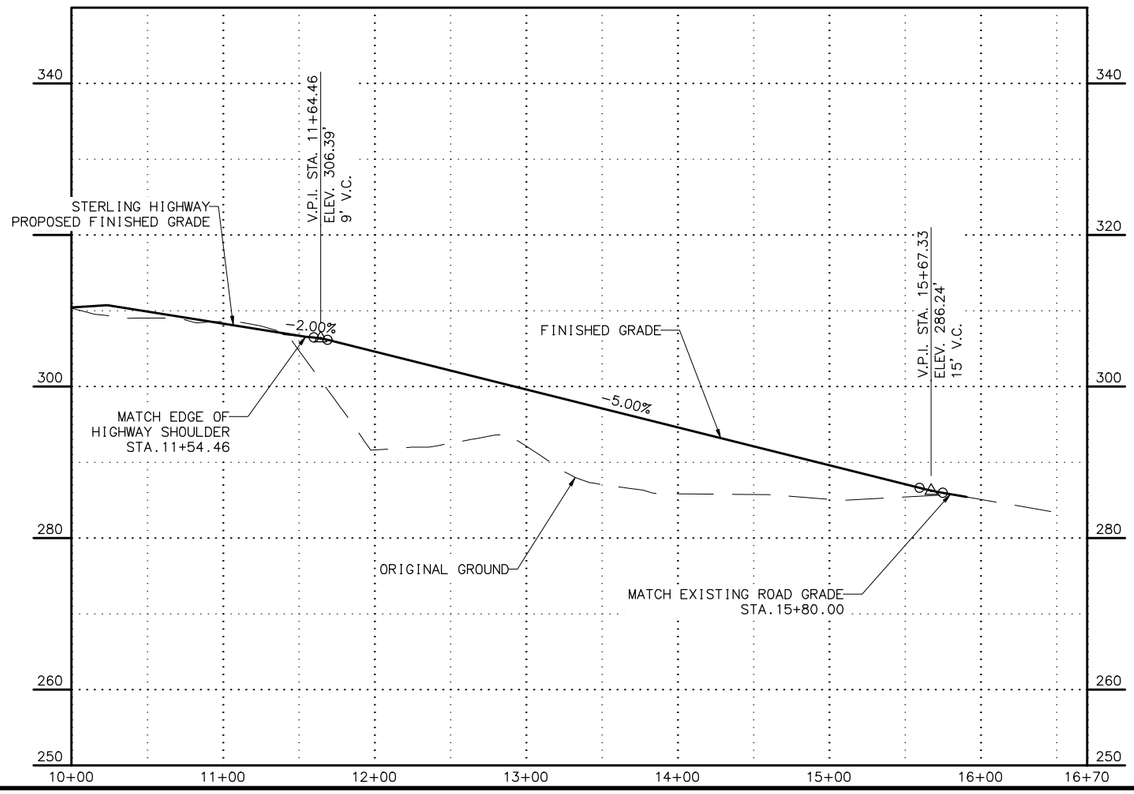
DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE
X" = XX'

DATE TIME
6/26/2025 9:33 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

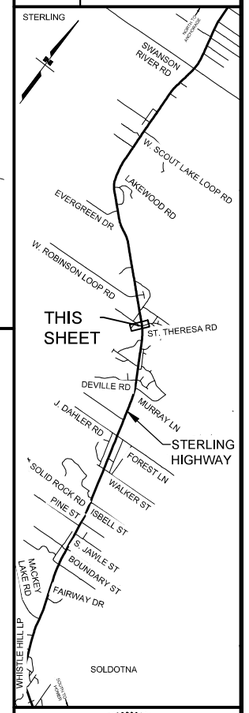




SHEET NO.	TOTAL SHEETS
F61	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



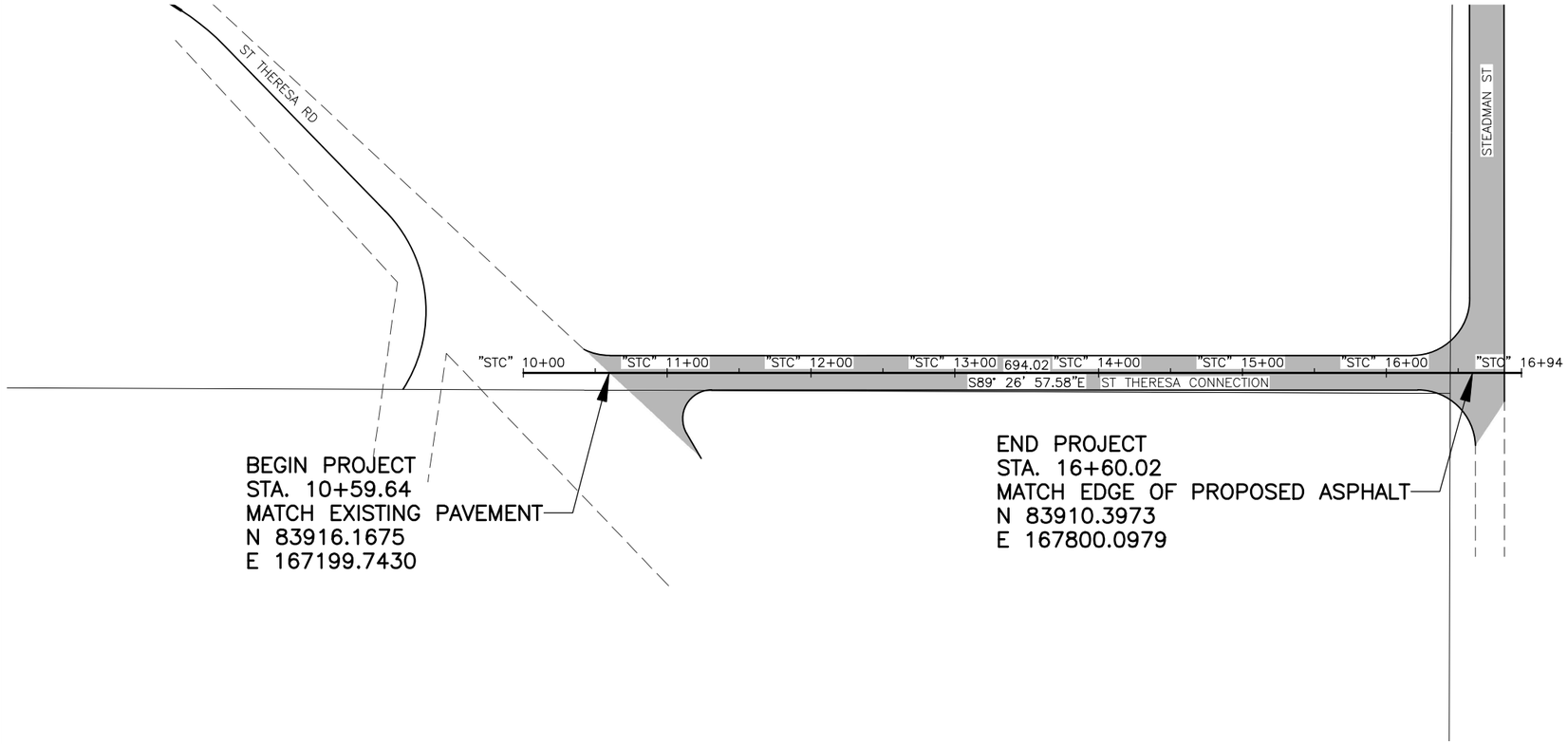
STATE OF ALASKA
10TH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

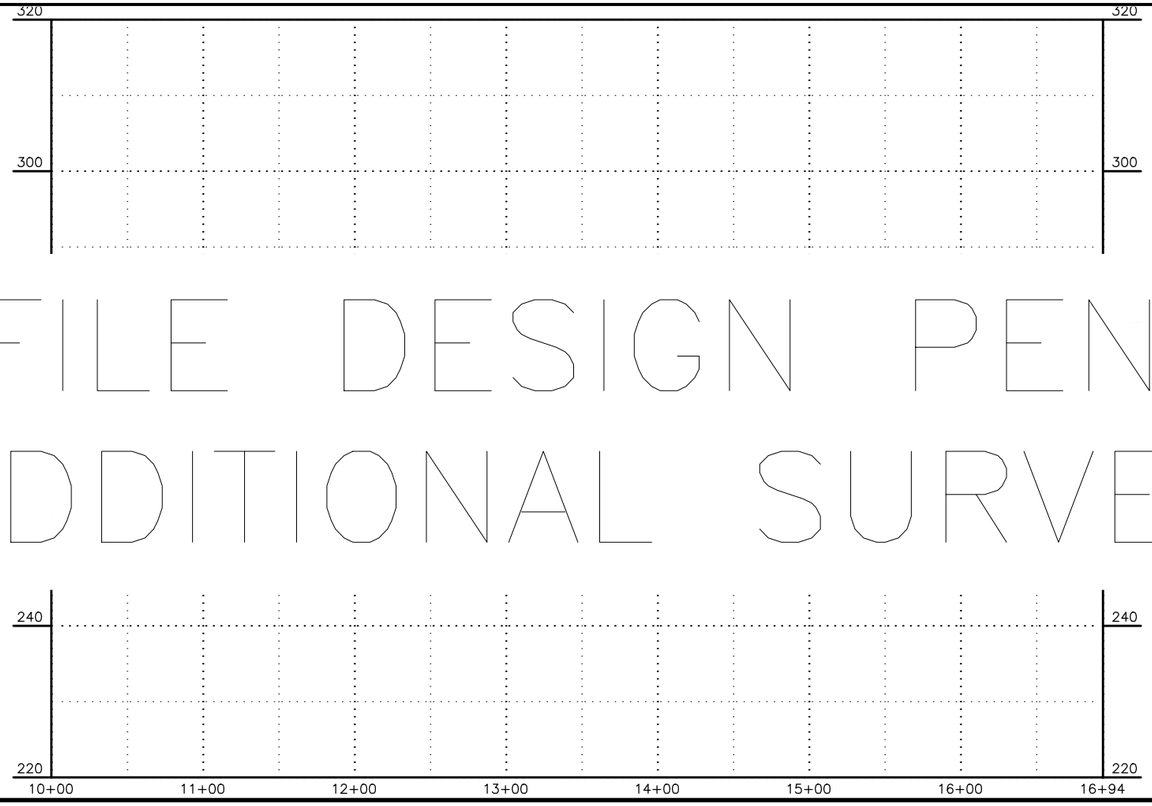
PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

BEAU CIRCLE EXTENSION PLAN AND PROFILE





PROFILE DESIGN PENDING

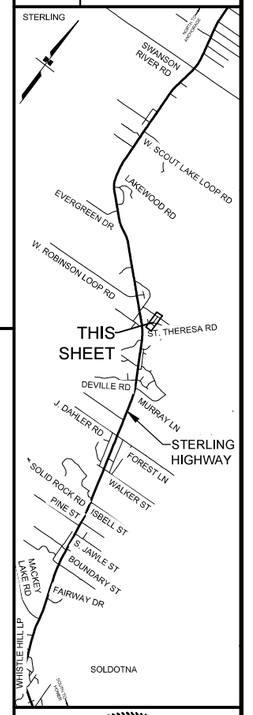
ADDITIONAL SURVEY

SHEET NO.	TOTAL SHEETS
F62	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION

OA33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER

LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

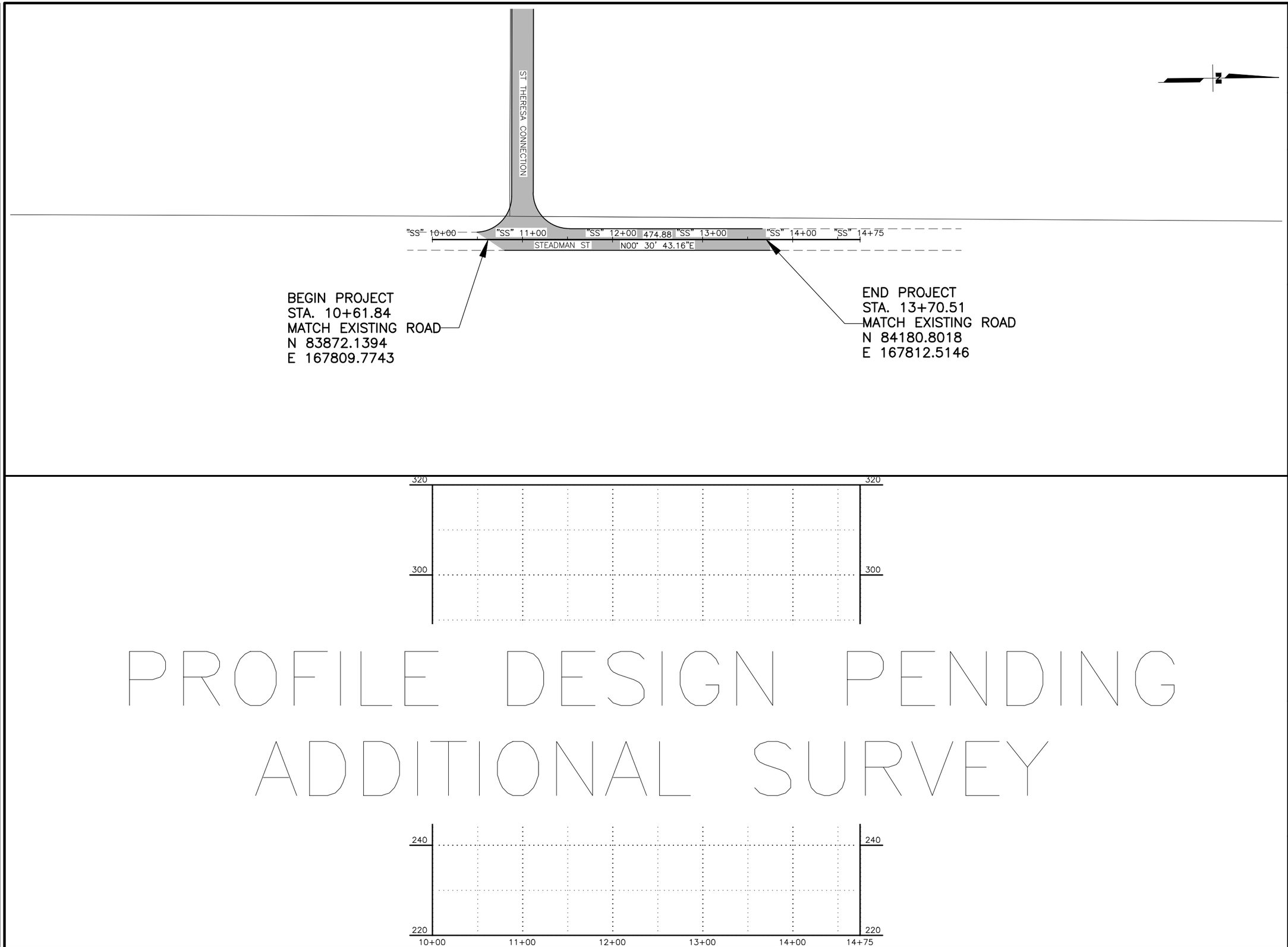
ST THERESEA
CONNECTION
PLAN AND PROFILE

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE TIME
6/26/2025 9:33 AM

DRAWING LOCATION
C:\DOWL_PW\D04174201\00130_PNP-3.DWG



PROFILE DESIGN PENDING
ADDITIONAL SURVEY

SHEET NO.	TOTAL SHEETS
F63	F67
STATE	YEAR
ALASKA	2025

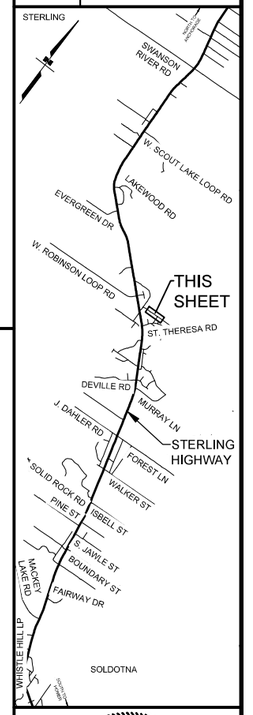
PROJECT DESIGNATION

OA33026/
CFHWY00130

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT MANAGER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

**STEADMAN ST
EXTENSION
PLAN AND PROFILE**

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE TIME
6/26/2025 9:33 AM

DRAWING LOCATION
C:\DOWL_PW\D04717420\00130_PNP-3.DWG

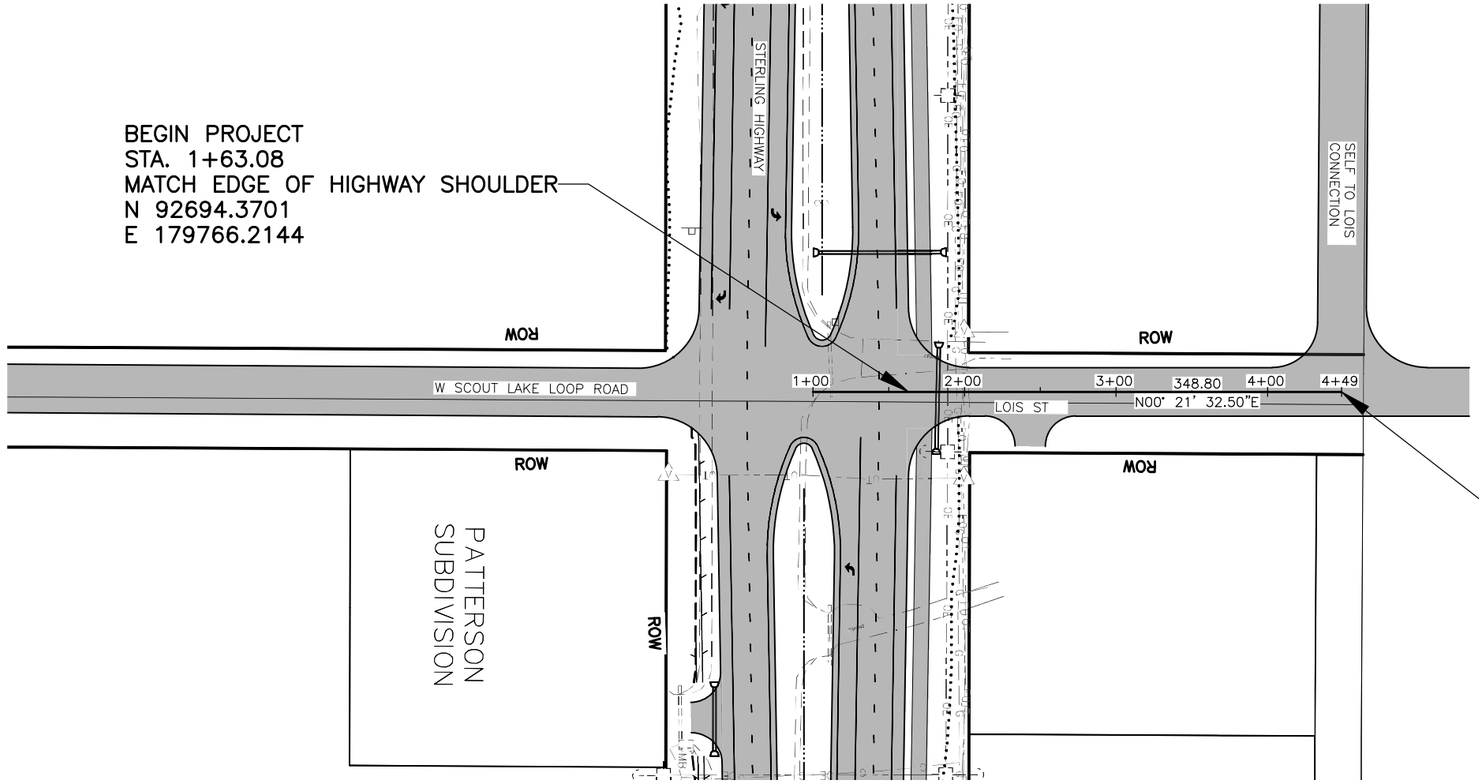
DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE 1" = 50'

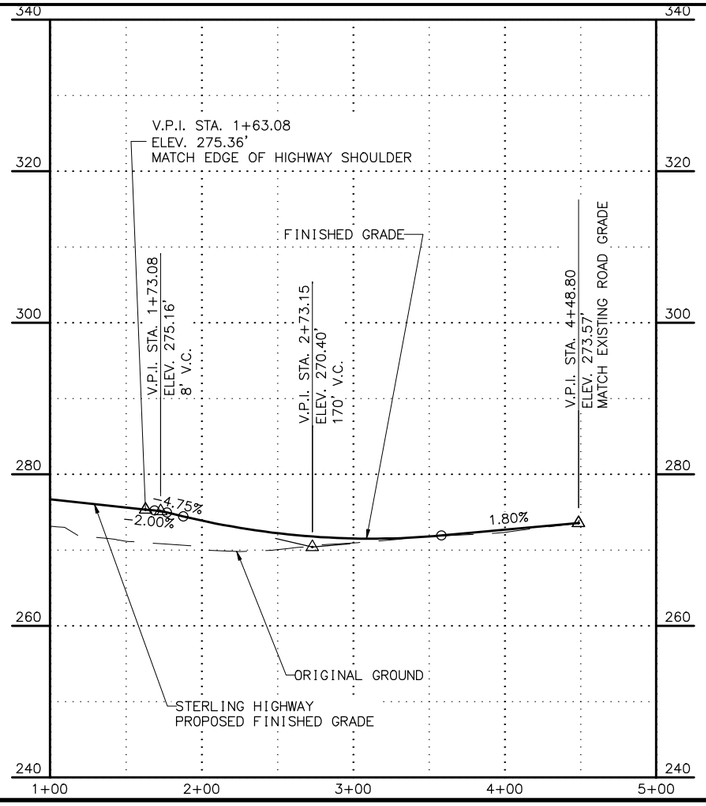
DATE 6/26/2025 TIME 9:34 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

BEGIN PROJECT
STA. 1+63.08
MATCH EDGE OF HIGHWAY SHOULDER
N 92694.3701
E 179766.2144



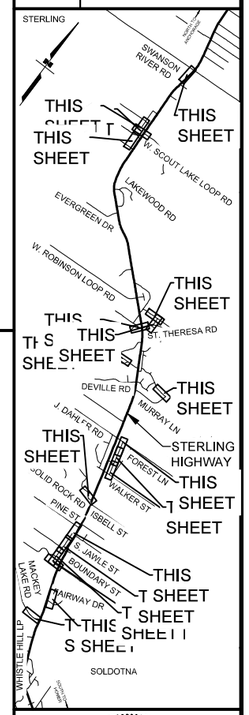
END PROJECT
STA. 4+48.80
MATCH EXISTING ROAD
N 92980.0821
E 179768.0048



SHEET NO.	TOTAL SHEETS
F64	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
OA33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
10TH
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LOCAL REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

LOIS STREET PLAN AND PROFILE

BEGIN PROJECT
STA. 10+51.05
N 93086.5687
E 177422.7979

SELF ST

"SLC" 10+00

"SLC" 11+00

COREY ST

"SLC" 12+00 | "SLC" 13+00 | "SLC" 14+00 | "SLC" 15+00 | "SLC" 16+00 | "SLC" 17+00 | "SLC" 18+00 | "SLC" 19+00 | "SLC" 20+00 | "SLC" 21+00 | "SLC" 2

SELF ST CONNECTION

MATCH LINE STA. 22+04

ROW

UNSUBDIVIDED
BLM LOT 2

PROFILE DESIGN PENDING
ADDITIONAL SURVEY

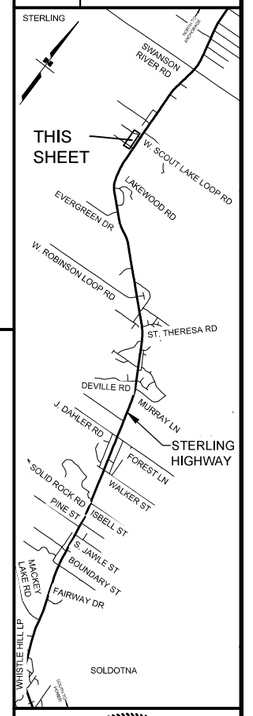
360
340
320
300
280
270

10+00 | 11+00 | 12+00 | 13+00 | 14+00 | 15+00 | 16+00 | 17+00 | 18+00 | 19+00 | 20+00 | 21+00 | 22+00

SHEET NO.	TOTAL SHEETS
F65	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PLAN AND PROFILE
"SLC" BOP TO
"SLC" STA. 22+00

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE TIME
6/26/2025 9:34 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

DESIGNED BY --
CHECKED BY --
DRAFTED BY --

SCALE X" = XX'

DATE 6/26/2025 TIME 9:34 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\0013O_PNP-3.DWG

MATCH LINE STA. 22+04

2+00 "SLC" 23+00 "SLC" 24+00 "SLC" 25+00 "SLC" 26+00 "SLC" 27+00 "SLC" 28+00 "SLC" 29+00 "SLC" 30+00 "SLC" 31+00 "SLC" 32+00 "SLC" 33+00 "SLC" 34+00 "SLC" 35+03

SELF ST CONNECTION

ROW

UNSUBDIVIDED
BLM LOT 1

ROW

ROW

LOIS STREET

ROW

340 320 300 280 260 250

STA. 22+80.30
302.72'
L.C.

25+14.13
13°

+78.90

4.81°

PROFILE DESIGN PENDING

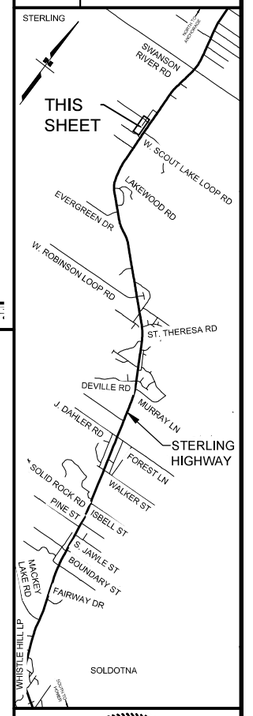
ADDITIONAL SURVEY

22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 34+99

SHEET NO.	TOTAL SHEETS
F66	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PLAN AND PROFILE "SLC" STA. 22+00 TO "SLC" EOP

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
X" = XX'

DATE 6/26/2025 TIME 9:34 AM

DRAWING LOCATION
C:\DOWL_PW\D0417420\00130_PNP-3.DWG

P.I. STA. 11+85.83
N = 92447.2394
E = 183997.0047
Δ = 103°23'08.6"
T = 65.83'
L = 93.83'
R = 52.00'

P.I. STA. 13+84.83
N = 92342.3762
E = 184209.3495
Δ = 013°23'08.6"
T = 24.88'
L = 49.53'
R = 212.00'

P.I. STA. 19+08.26
N = 92225.5053
E = 184719.7968
Δ = 002°25'41.3"
T = 81.15'
L = 162.27'
R = 3829.00'

P.I. STA. 20+24.12
N = 92204.4500
E = 184833.7573
Δ = 018°36'49.8"
T = 34.74'
L = 68.87'
R = 212.00'

P.I. STA. 21+60.42
N = 92223.8494
E = 184969.2859
Δ = 009°12'24.2"
T = 4.19'
L = 8.36'
R = 52.00'

END PROJECT
STA. 22+12.02
MATCH EDGE OF SHOULDER
N 92222.8939
E 185020.8908

BEGIN PROJECT
STA. 10+80.00
MATCH EDGE OF HIGHWAY SHOULDER
N 92344.0821
E 183973.3861

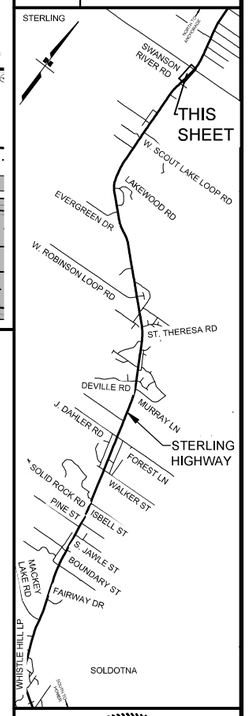
ROW
"SEF" 10+00
"SEF" 11+00
"SEF" 12+00
"SEF" 13+00
"SEF" 14+00
"SEF" 15+00
"SEF" 16+00
"SEF" 17+00
"SEF" 18+00
"SEF" 19+00
"SEF" 20+00
"SEF" 21+00
"SEF" 22+00
"SEF" 22+60
40.00
N12° 53' 45.72"E
146.12
S63° 43' 05.65"E
417.63
S77° 06' 14.28"E
97.98
N81° 51' 14.68"E
95.43
S88° 56' 21.15"E
STERLING ELEMENTARY FRONTAGE
STERLING HIGHWAY
SWANSON RIVER RD
MISSION

STERLING HIGHWAY
PROPOSED FINISHED GRADE
FINISHED GRADE
ORIGINAL GROUND
V.P.I. STA. 10+80.00
ELEV. 242.29'
MATCH EDGE OF HIGHWAY SHOULDER
V.P.I. STA. 10+90.00
ELEV. 242.09'
5' V.C.
V.P.I. STA. 12+00.00
ELEV. 238.50'
160' V.C.
V.P.I. STA. 13+11.30
ELEV. 241.70'
28' V.C.
V.P.I. STA. 16+30.73
ELEV. 243.50'
13' V.C.
V.P.I. STA. 17+83.41
ELEV. 242.69'
11' V.C.
V.P.I. STA. 21+41.04
ELEV. 237.66'
89' V.C.
V.P.I. STA. 22+12.02
ELEV. 239.08'
MATCH EDGE OF SHOULDER
-2.01%
-3.27%
2.88%
0.56%
-0.53%
-1.41%
2.00%
300
280
260
240
220
210
10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
22+70

SHEET NO.	TOTAL SHEETS
F67	F67
STATE	YEAR
ALASKA	2025

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
DOT&PF
PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER
FOR REVIEW

PLANS DEVELOPED BY:
DOWL
5015 BUSINESS PARK BLVD STE 4000
ANCHORAGE AK 99503
(907)562-2000
#AECL848-AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

STERLING ELEM FRONTAGE PLAN AND PROFILE

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	HL1	HL32

DESIGNED BY: ---
CHECKED BY: ---
DRAFTED BY: BCL

SCALE: #" = #"

DATE TIME: 6/20/2025 6:00 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_H1_LEGEND-NOTES.DWG

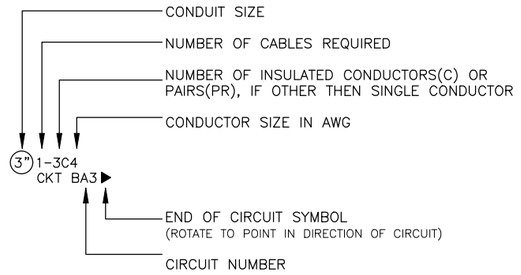
SYMBOL LEGEND

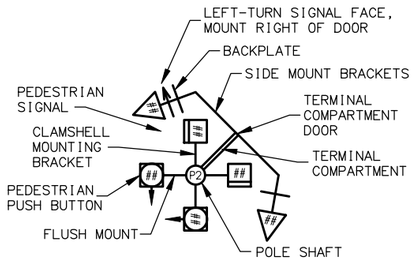
EXISTING / PROPOSED

- LOAD CENTER
- TRAFFIC CONTROLLER
- BEACON CONTROLLER
- TYPE 1A JUNCTION BOX
- TYPE II JUNCTION BOX
- TYPE III JUNCTION BOX
- TYPE IV JUNCTION BOX
- ELECTROLIER
- HIGHTOWER (HT#)
- SIGNAL POLE WITH MASTARM
- PEDESTRIAN PUSH BUTTON
- PEDESTRIAN SIGNAL
- VEHICULAR SIGNAL
- VEHICULAR SIGNAL LEFT
- VEHICULAR SIGNAL RIGHT
- OPTICAL DETECTOR
- GPS DETECTOR
- CAMARA DETECTOR
- RADAR DETECTOR
- LOOP DETECTOR
- ANTENNA, YAGI OR OMNI
- MASTARM BEACON
- RURAL BEACON
- SCHOOL ZONE BEACON
- LOOP DETECTOR CONDUIT
- SIGNAL CONDUIT
- LIGHTING CONDUIT
- SIGNAL & LIGHTING CONDUIT
- CONDUIT BORING
- CONDUIT SIZE IN INCHES
- FIBER OPTIC VAULT
- INTERCONNECT
- SIGN POST
- PRIVATE SIGN

ABBREVIATIONS

AWG	AMERICAN WIRE GAUGE	NB	NORTH BOUND
CAM	CAMERA	OMNI	OMNI DIRECTIONAL ANTENNA
EB	EAST BOUND	P#	TRAFFIC SIGNAL POLE #
GND	GROUND	PE	PHOTOELECTRIC CELL
HDPE	HIGH DENSITY POLYETHYLENE CONDUIT	PED B ##	PEDESTRIAN PUSH BUTTON #
HEAD	VEHICULAR SIGNAL HEAD	PEDI	PEDESTRIAN SIGNAL HEAD
SIG	SIGNAL	PRE #	PREEMPTION #
I/C	INTERCONNECT	PRE CON #	PREEMPTION CONFIRMATION LIGHT #
INTX	INTERSECTION	RAD	RADAR
INTX L	INTERSECTION LIGHTING	RMC	RIGID METAL CONDUIT
LC	LOAD CENTER	SB	SOUTH BOUND
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT	TC	TRAFFIC CONTROLLER
LTG	LIGHTING	WB	WEST BOUND
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	YAGI	DIRECTIONAL ANTENNA





POLE SHAFT LEGEND

CALL BEFORE YOU DIG!

CONTRACTOR SHALL CALL A MINIMUM OF 3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGLINE....907-278-3121 OR 800-478-3121

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM FOR MEMBER LIST OF WHO WILL BE NOTIFIED

FOUNDATIONS NOTES:

1. STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
2. JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.
3. INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
4. INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:48 OF PLUMB.

SIGNAL SYSTEM NOTES:

1. FURNISH THE SIGNAL AND LUMINAIRE MASTARM LENGTHS AND DIMENSIONS SPECIFIED ON THE POLE ELEVATIONS.
2. INSTALL DEVICES SUCH THAT THE DIMENSIONS SHOWN TO THE BOTTOM OF THE DEVICES ON THE POLE ELEVATIONS ARE MINIMUMS. VERTICAL DIMENSIONS TO SIGNAL HEADS ARE TO BOTTOM OF THE BACK PLATE.
3. INSTALL MAST ARMS PERPENDICULAR TO THE ROADWAY CENTERLINE. ACCEPTABLE VARIANCE IS +/- 1-DEGREE.
4. SALVAGE SIGNAL POLE ASSEMBLIES, SIGNS, SIGNAL FACES, AND LUMINAIRES AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING. COMPONENTS DAMAGED WHILE IN THE CONTRACTOR'S CUSTODY MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE. REMOVE AND DISPOSE OF FOUNDATIONS.
5. SALVAGE EXISTING CONTROLLER CABINET AFTER NEW CONTROLLER CABINET IS IN SERVICE AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING.
6. REMOVE ABANDONED OR UNUSED TRAFFIC JUNCTION BOXES UNLESS OTHERWISE NOTED.
7. NEW SIGNAL HEADS THAT ARE MOUNTED BUT NOT IN OPERATION SHALL BE COVERED WITH A COMMERCIALLY AVAILABLE SIGNAL-SHIRT. EACH SIGNAL SHIRT SHALL FEATURE ELASTICIZED OPENINGS THAT FIT OVER THE VISORS AND AT LEAST TWO STRAPS TO SECURE IT TO THE SIGNAL. PROVIDE SHIRTS WITH A LEGEND THAT READS "OUT OF SERVICE" AND A CENTER SECTION THAT ALLOWS AN OPERATOR TO SEE THE INDICATIONS DURING SYSTEM TESTS.
8. SIGNAL HEADS ARE TO BE LOCATED PER FIGURE 4D-100, TYPICAL SIGNAL HEAD LOCATIONS, PER THE ALASKA TRAFFIC MANUAL. ACCEPTABLE VARIANCE IS +/- 1-FOOT.
9. AIM SIGNALS PER TABLE 660-2, THROUGH-SIGNAL AIMING POINT, OF THE SPECIAL PROVISIONS. SIGNALS SHALL ALSO BE AIMED SO AS NOT TO BE VISIBLE FROM SIDE STREET TRAFFIC. ACCEPTABLE VARIANCE IS +/- 5 DEGREES.
10. EXISTING CIRCUITS LISTED ON THE LOAD CENTER SUMMARY AND PLAN SHEETS WERE OBTAINED FROM AS-BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

TRAFFIC LEGEND AND NOTES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	HL2	HL32

NEW / REPLACEMENT — LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1
LOCATION: STATON 21+25 DEVIN DR, W CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA PAD MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1–PHASE, 3–WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2–POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON–OFF–AUTO (3–POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER			7.5KVA	

PANEL 'A' SCHEDULE — 480/240 VOLT, 1–PHASE, 3–WIRE, 100A MLO — INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	INTERSECTION LTG (LUMS)	(x–1)	20A/2P	0.3	4.3		2	7.5KVA STEP DOWN TRANSFORMER		50A/2P	4.0
3				0.3		0.8	4				0.5
5	EAST OF LC, NORTH SIDE LTG (11 LUMS)	(x–2)	20A/2P	0.9	1.0		6	LIGHTING CONTROL		20A/2P	0.1
7				0.9		0.9	8	SPARE	(x–5)	20A/2P	0.0
9	EAST OF LC, SOUTH SIDE LTG (9 LUMS)	(x–3)	20A/2P	0.7	0.7		10				0.0
11				0.7		0.7	12	SPARE	(x–6)	20A/2P	0.0
13	SPARE	(x–4)	20A/2P	0.0	0.0		14				0.0
15				0.0		0.0	16		(x–7)	20A/2P	0.0

SERVICE LOAD:					
CONNECTED:	6.1	2.5	8.6	KVA	18 AMP
DEMAND:	7.6	3.1	10.7	KVA	22 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

PANEL 'B' SCHEDULE

120/240 VOLT, 1–PHASE, 3–WIRE, 100A MLO — INTERRUPTING RATING: 10,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	MAIN BREAKER		50A/2P	0.0	4.0		2	TRAFFIC CONTROLLER		50A/1P	4.0
3				0.0		0.5	4	CABINET HEATER		20A/1P	0.5
5	SPARE	(x–1)	20A/2P	0.0	0.0		6	SPARE	(x–5)	20A/2P	0.0
7				0.0		0.0	8				0.0
9	SPARE	(x–2)	20A/2P	0.0	0.0		10	SPARE	(x–6)	20A/2P	0.0
11				0.0		0.0	12				0.0

SERVICE LOAD:					
CONNECTED:	4.0	0.5	4.5	KVA	9 AMP
DEMAND:	5	0.625	5.6	KVA	12 AMP

NOTES: LUM = LUMINAIRE

NEW / REPLACEMENT — LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 132+00 BOUNDRY ST, NE CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1–PHASE, 3–WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2–POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON–OFF–AUTO (3–POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE — 480/240 VOLT, 1–PHASE, 3–WIRE, 100A MLO — INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (15 LUMS)	(x–1)	20A/2P	1.2	1.3		2	LIGHTING CONTROL		20/1P	0.1
3				1.2		1.7	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (14 LUMS)	(x–2)	20A/2P	1.2	1.2		6	SPARE		20/1P	0.0
7				1.2		1.2	8	SPARE	(x–5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (11 LUMS)	(x–3)	20A/2P	0.9	0.9		10				0.0
11				0.9		0.9	12	SPARE	(x–6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (11 LUMS)	(x–4)	20A/2P	0.9	0.9		14				0.0
15				0.9		0.9	16		(x–7)	20A/2P	0.0

SERVICE LOAD:					
CONNECTED:	4.3	4.7	9.0	KVA	19 AMP
DEMAND:	5.3844	5.8844	11.3	KVA	23 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

NEW / REPLACEMENT — LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 74+00 MONTE DR, NE CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1–PHASE, 3–WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2–POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON–OFF–AUTO (3–POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE — 480/240 VOLT, 1–PHASE, 3–WIRE, 100A MLO — INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (11 LUMS)	(x–1)	20A/2P	0.9	1.0		2	LIGHTING CONTROL		20/1P	0.1
3				0.9		1.4	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (11 LUMS)	(x–2)	20A/2P	0.9	0.9		6	SPARE		20/1P	0.0
7				0.9		0.9	8	SPARE	(x–5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (11 LUMS)	(x–3)	20A/2P	0.9	0.9		10				0.0
11				0.9		0.9	12	SPARE	(x–6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (10 LUMS)	(x–4)	20A/2P	0.8	0.8		14				0.0
15				0.8		0.8	16		(x–7)	20A/2P	0.0

SERVICE LOAD:					
CONNECTED:	3.6	4.0	7.7	KVA	16 AMP
DEMAND:	4.5594	5.0594	9.6	KVA	20 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

NEW / REPLACEMENT — LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 185+50 SOLID ROCK RD, NE CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1–PHASE, 3–WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2–POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON–OFF–AUTO (3–POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE — 480/240 VOLT, 1–PHASE, 3–WIRE, 100A MLO — INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (11 LUMS)	(x–1)	20A/2P	0.9	1.0		2	LIGHTING CONTROL		20/1P	0.1
3				0.9		1.4	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (11 LUMS)	(x–2)	20A/2P	0.9	0.9		6	SPARE		20/1P	0.0
7				0.9		0.9	8	SPARE	(x–5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (13 LUMS)	(x–3)	20A/2P	1.1	1.1		10				0.0
11				1.1		1.1	12	SPARE	(x–6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (12 LUMS)	(x–4)	20A/2P	1.0	1.0		14				0.0
15				1.0		1.0	16		(x–7)	20A/2P	0.0

SERVICE LOAD:					
CONNECTED:	4.0	4.4	8.4	KVA	17 AMP
DEMAND:	4.9719	5.4719	10.4	KVA	22 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

LOAD CENTER SCHEDULES

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE #" = #"
DATE TIME 6/20/2025 6:00 PM
DRAWING LOCATION Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL2-HL4_LC SCHDL.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	HL3	HL32

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:00 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL2-HL4_LC SCHDL.DWG

NEW / REPLACEMENT — LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 280+60 JIM DAHLER RD, NW CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE — 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO — INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (11 LUMS)	(x-1)	20A/2P	0.9	1.0		2	LIGHTING CONTROL		20/1P	0.1
3				0.9		1.4	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (11 LUMS)	(x-2)	20A/2P	0.9	0.9		6	SPARE		20/1P	0.0
7				0.9		0.9	8	SPARE	(x-5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (13 LUMS)	(x-3)	20A/2P	1.1	1.1		10				0.0
11				1.1		1.1	12	SPARE	(x-6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (13 LUMS)	(x-4)	20A/2P	1.1	1.1		14				0.0
15				1.1		1.1	16		(x-7)	20A/2P	0.0

SERVICE LOAD:		KVA	KVA	KVA		AMP
	CONNECTED:	4.1	4.5	8.5	KVA	18 AMP
	DEMAND:	5.075	5.575	10.7	KVA	22 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

NEW / REPLACEMENT — LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1
LOCATION: STATON 301+00 STREET, NE CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA PAD MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				7.5KVA

PANEL 'A' SCHEDULE — 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO — INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (14 LUMS)	(x-1)	20A/2P	1.2	1.7		2	7.5KVA STEP DOWN TRANSFORMER		50A/2P	0.5
3				1.2		1.7	4				0.5
5	WEST OF LC, SOUTH SIDE LTG (14 LUMS)	(x-2)	20A/2P	1.2	1.3		6	LIGHTING CONTROL		20A/2P	0.1
7				1.2		1.2	8	SPARE	(x-5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (13 LUMS)	(x-3)	20A/2P	1.1	1.1		10				0.0
11				1.1		1.1	12	SPARE	(x-6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (11 LUMS)	(x-4)	20A/2P	0.9	0.9		14				0.0
15				0.9		0.9	16		(x-7)	20A/2P	0.0

SERVICE LOAD:		KVA	KVA	KVA		AMP
	CONNECTED:	4.9	4.8	9.7	KVA	20 AMP
	DEMAND:	6.1125	5.9875	12.1	KVA	25 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

NEW / REPLACEMENT — LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1
LOCATION: STATON 301+00 STREET, NE CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA PAD MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				7.5KVA

PANEL 'A' SCHEDULE — 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO — INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	SPACE	(x-1)	20A/2P	1.2	3.7		2	7.5KVA STEP DOWN TRANSFORMER		50A/2P	2.5
3				1.2		3.2	4				2.0
5	SPACE	(x-2)	20A/2P	1.2	1.3		6	SPARE		20A/2P	0.1
7				1.2		1.2	8	SPARE	(x-5)	20A/2P	0.0
9	SPACE	(x-3)	20A/2P	1.1	1.1		10				0.0
11				1.1		1.1	12	SPARE	(x-6)	20A/2P	0.0
13	SPACE	(x-4)	20A/2P	0.9	0.9		14				0.0
15				0.9		0.9	16		(x-7)	20A/2P	0.0

SERVICE LOAD:		KVA	KVA	KVA		AMP
	CONNECTED:	6.9	6.3	13.2	KVA	27 AMP
	DEMAND:	8.6125	7.8625	16.5	KVA	34 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

PANEL 'B' SCHEDULE — 120/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO — INTERRUPTING RATING: 10,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	MAIN BREAKER		50A/2P	0.0	2.0		2	RWIS		50A/2P	2.0
3				0.0		2.0	4				2.0
5	SPARE	(x-1)	20A/2P	0.0	0.5		6	WIM		20A/1P	0.5
7				0.0		0.5	8	CABINET HEATER		20A/1P	0.5
9	SPARE	(x-2)	20A/2P	0.0	0.0		10	SPARE	(x-6)	20A/2P	0.0
11				0.0		0.0	12				0.0

SERVICE LOAD:		KVA	KVA	KVA		AMP
	CONNECTED:	2.5	2.5	5.0	KVA	10 AMP
	DEMAND:	3.125	3.125	6.3	KVA	13 AMP

NOTES: LUM = LUMINAIRE

PANEL 'B' SCHEDULE — 120/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO — INTERRUPTING RATING: 10,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	MAIN BREAKER		30A/2P	0.0	0.5		2	ATR		20A/1P	0.5
3				0.0		0.5	4	CABINET HEATER		20A/1P	0.5
5	SPARE	(x-1)	20A/2P	0.0	0.0		6	SPARE	(x-5)	20A/2P	0.0
7				0.0		0.0	8				0.0
9	SPARE	(x-2)	20A/2P	0.0	0.0		10	SPARE	(x-6)	20A/2P	0.0
11				0.0		0.0	12				0.0

SERVICE LOAD:		KVA	KVA	KVA		AMP
	CONNECTED:	0.5	0.5	1.0	KVA	2 AMP
	DEMAND:	0.625	0.625	1.3	KVA	3 AMP

NOTES: LUM = LUMINAIRE

NEW / REPLACEMENT — LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 349+50 W ROBINSON LOOP RD, NE CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE — 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO — INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (10 LUMS)	(x-1)	20A/2P	0.8	0.9		2	LIGHTING CONTROL		20/1P	0.1
3				0.8		1.3	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (10 LUMS)	(x-2)	20A/2P	0.8	0.8		6	SPARE		20/1P	0.0
7				0.8		0.8	8	SPARE	(x-5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (14 LUMS)	(x-3)	20A/2P	1.2	1.2		10				0.0
11				1.2		1.2	12	SPARE	(x-6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (14 LUMS)	(x-4)	20A/2P	1.2	1.2		14				0.0
15				1.2		1.2	16		(x-7)	20A/2P	0.0

SERVICE LOAD:		KVA	KVA	KVA		AMP
	CONNECTED:	4.1	4.5	8.5	KVA	18 AMP
	DEMAND:	5.075	5.575	10.7	KVA	22 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

LOAD CENTER SCHEDULES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	HL4	HL32

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:01 PM

DRAWING LOCATION Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL2-HL4_LC SCHDL.DWG

NEW LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 413+60 EVERGREEN DR, NW CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (13 LUMS)	(x-1)	20A/2P	1.1	1.2		2	LIGHTING CONTROL		20/1P	0.1
3				1.1		1.6	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (10 LUMS)	(x-2)	20A/2P	0.8	0.8		6	SPARE		20/1P	0.0
7				0.8		0.8	8	SPARE	(x-5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (13LUMS)	(x-3)	20A/2P	1.1	1.1		10				0.0
11				1.1		1.1	12	SPARE	(x-6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (11 LUMS)	(x-4)	20A/2P	0.9	0.9		14				0.0
15				0.9		0.9	16		(x-7)	20A/2P	0.0

SERVICE LOAD:					
CONNECTED:	4.0	4.4	8.4	KVA	17 AMP
DEMAND:	4.9719	5.4719	10.4	KVA	22 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

NEW LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 467+25 SELF ST, NW CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (14 LUMS)	(x-1)	20A/2P	1.2	1.3		2	LIGHTING CONTROL		20/1P	0.1
3				1.2		1.7	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (12 LUMS)	(x-2)	20A/2P	1.0	1.0		6	SPARE		20/1P	0.0
7				1.0		1.0	8	SPARE	(x-5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (18 LUMS)	(x-3)	20A/2P	1.5	1.5		10				0.0
11				1.5		1.5	12	SPARE	(x-6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (16 LUMS)	(x-4)	20A/2P	1.3	1.3		14				0.0
15				1.3		1.3	16		(x-7)	20A/2P	0.0

SERVICE LOAD:					
CONNECTED:	5.1	5.5	10.5	KVA	22 AMP
DEMAND:	6.3125	6.8125	13.1	KVA	27 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

NEW LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 544+50 SWANSON RIVER RD, NE CORNER OF INT.
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (16 LUMS)	(x-1)	20A/2P	1.3	1.4		2	LIGHTING CONTROL		20/1P	0.1
3				1.3		1.8	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (16 LUMS)	(x-2)	20A/2P	1.3	1.3		6	SPARE		20/1P	0.0
7				1.3		1.3	8	SPARE	(x-5)	20A/2P	0.0
9	EAST OF LC, NORTH SIDE LTG (8 LUMS)	(x-3)	20A/2P	0.7	0.7		10				0.0
11				0.7		0.7	12	SPARE	(x-6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (8 LUMS)	(x-4)	20A/2P	0.7	0.7		14				0.0
15				0.7		0.7	16		(x-7)	20A/2P	0.0

SERVICE LOAD:					
CONNECTED:	4.1	4.5	8.5	KVA	18 AMP
DEMAND:	5.075	5.575	10.7	KVA	22 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

NEW LOAD CENTER SUMMARY

LOAD CENTER: TYPE: 1A
LOCATION: STATION 580+80 EAST OF WEIGH STATION
REMARKS: x

UTILITY SOURCE: 25 KVA POLE MOUNT XFMR utility co METER #xxx
SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE
MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION		CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION		CKT. BKR.	KVA
1	WEST OF LC, NORTH SIDE LTG (8 LUMS)	(x-1)	20A/2P	0.7	0.8		2	LIGHTING CONTROL		20/1P	0.1
3				0.7		1.2	4	CABINET HEATER		20/1P	0.5
5	WEST OF LC, SOUTH SIDE LTG (8 LUMS)	(x-2)	20A/2P	0.7	1.2		6	PULL OUT LTG (6 LUMS)		20A/2P	0.5
7				0.7		1.2	8		(x-5)		0.5
9	EAST OF LC, NORTH SIDE LTG (7 LUMS)	(x-3)	20A/2P	0.6	1.1		10	SPARE		20/1P	0.0
11				0.6		0.6	12	SPARE	(x-6)	20A/2P	0.0
13	EAST OF LC, SOUTH SIDE LTG (8 LUMS)	(x-4)	20A/2P	0.7	0.7		14				0.0
15				0.7		0.7	16		(x-7)	20A/2P	0.0

SERVICE LOAD:					
CONNECTED:	3.6	3.6	7.2	KVA	15 AMP
DEMAND:	4.5594	4.4406	9.0	KVA	19 AMP

NOTES: LUM = LUMINAIRE
* X
** X
*** X

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

LOAD CENTER SCHEDULES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	HL5	HL32

DESIGNED BY	---
CHECKED BY	---
DRAFTED BY	BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:01 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5_LUM PRFMC CRT.DWG

LUMINAIRE PERFORMANCE CRITERIA

LUMINANCE CRITERIA	
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-2014
FUNCTIONAL CLASSIFICATION	MAJOR
PEDESTRIAN AREA CLASSIFICATION	LOW
INTERSECTION CHARACTERISTICS	
ROADWAY LIGHTING STANDARD	IESNA RP-8-2014
PEDESTRIAN AREA CLASSIFICATION	LOW
ILLUMINANCE CRITERIA	
MAJOR/LOCAL INTERSECTIONS	
AVERAGE MAINTAINED ILLUMINATION	1.5 FC
AVERAGE UNIFORMITY RATIO (AVG/MIN)	3.0
MAJOR/COLLECTOR INTERSECTIONS *	
AVERAGE MAINTAINED ILLUMINATION	1.8 FC
AVERAGE UNIFORMITY RATIO (AVG/MIN)	3.0

* MACKEY LAKE RD INTERSECTION IS ONLY MAJOR/COLLECTOR. ALL OTHER NAMED SIDESTREET INTERSECTIONS ARE MAJOR/LOCAL.

LUMINAIRE STANDARDS

WATTAGE	150w-165w
LIGHT SOURCE	LED
VOLTAGE	240 OR 480
PE CONTROL	WIRELESS NODE
PE SENSOR	NO
MOUNTING	HORIZONTAL
HOUSING ENTRY TYPE	TOOLLESS
FIXTURE COLOR	GRAY
IES DISTRIBUTION TYPE	III
POWER FACTOR	>0.90
UL LISTED	YES
CCT	4000K
CRI	MINIMUM 70
INITIAL LUMENS	23,000 - 27,800
LIGHT LOSS FACTOR	0.85

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

LUMINAIRE PERFORMANCE CRITERIA

DESIGNED BY: ---
CHECKED BY: ---
DRAFTED BY: BCL

SCALE: 1" = 50'

DATE: 6/20/2025
TIME: 6:03 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

0 50 100
HORZ SCALE IN FEET

NEW SIGNAL AND LIGHTING LOAD CENTER

DEVIN DRIVE

LIMITS OF PAVEMENT, TYP

NEW PATHWAY, TYP

STERLING HWY

DRIVEWAY

MATCH LINE STATION 33+00
SEE BELOW

STA. 20+95.53, BEGIN HWY. LIGHTING AND SIGNALIZATION IMPROVEMENTS

SEE SHEETS HL30 – HL32 FOR TRAFFIC SIGNAL MODIFICATIONS

REMOVE EXISTING LIGHTING ELECTROLIER

REMOVE EXISTING LIGHTING ELECTROLIER

REMOVE EXISTING LIGHTING ELECTROLIER

EXISTING LOAD CENTER

FRED MEYERS

WHISTLE HILL LOOP

STERLING HWY

MATCH LINE STATION 33+00
SEE ABOVE

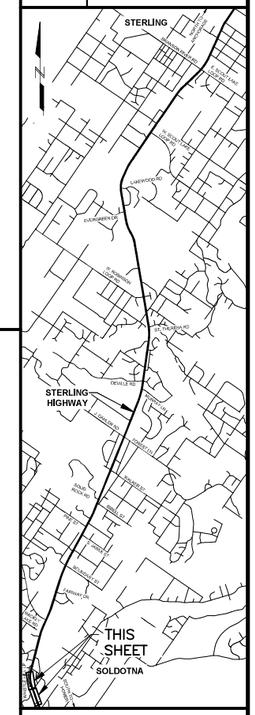
SHARKATHAMI AVE

MATCH LINE STATION 45+00
SEE SHEET HL7

SHEET NO.	TOTAL SHEETS
HL6	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

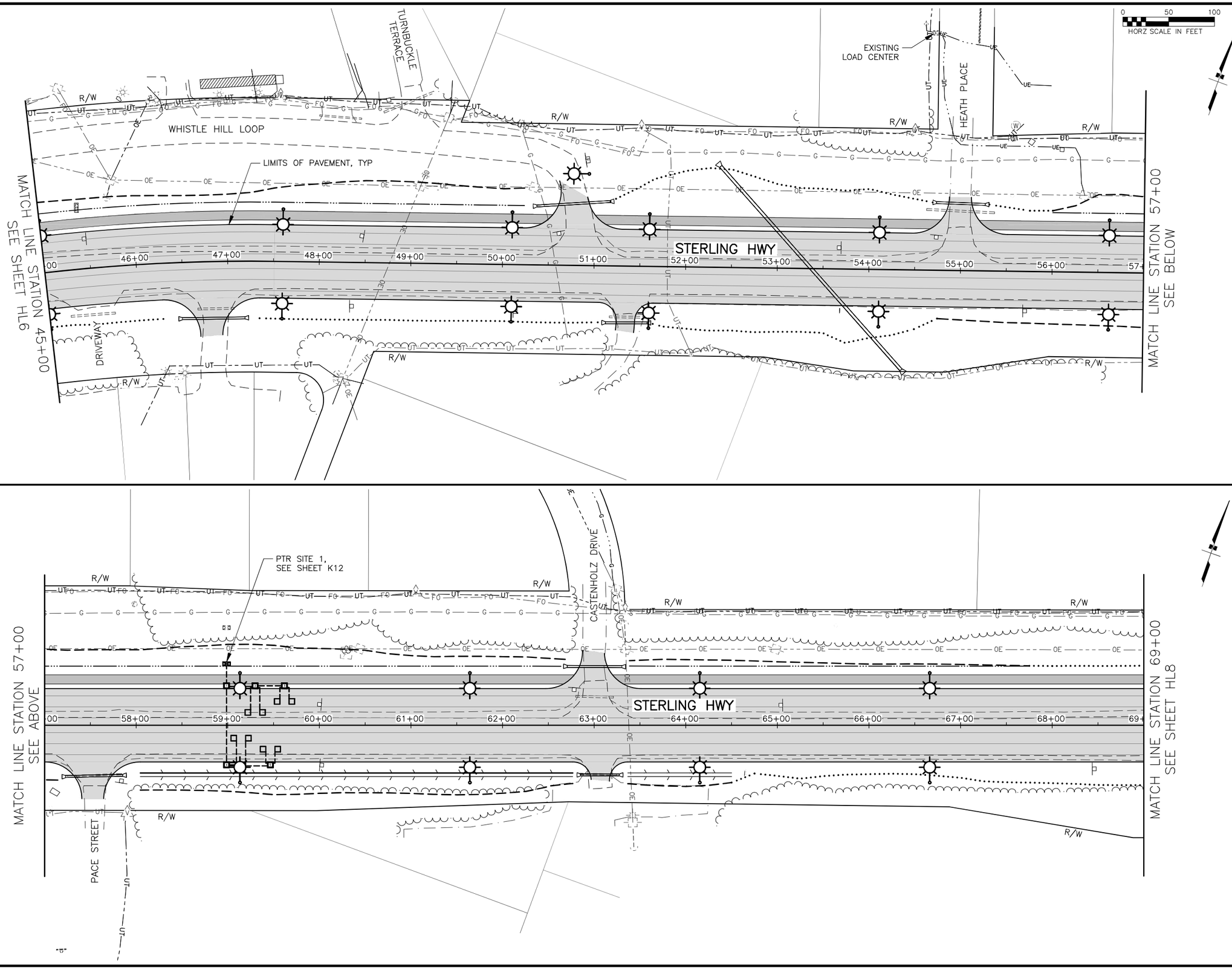
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
BOP TO
STA 45+00

DESIGNED BY: ---
CHECKED BY: ---
DRAFTED BY: BCL

SCALE: 1" = 50'

DATE TIME: 6/20/2025 6:03 PM

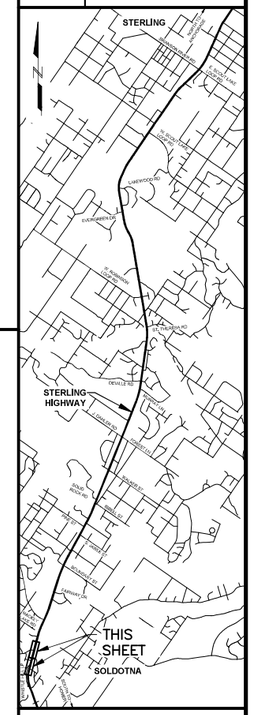
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG



SHEET NO.	TOTAL SHEETS
HL7	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

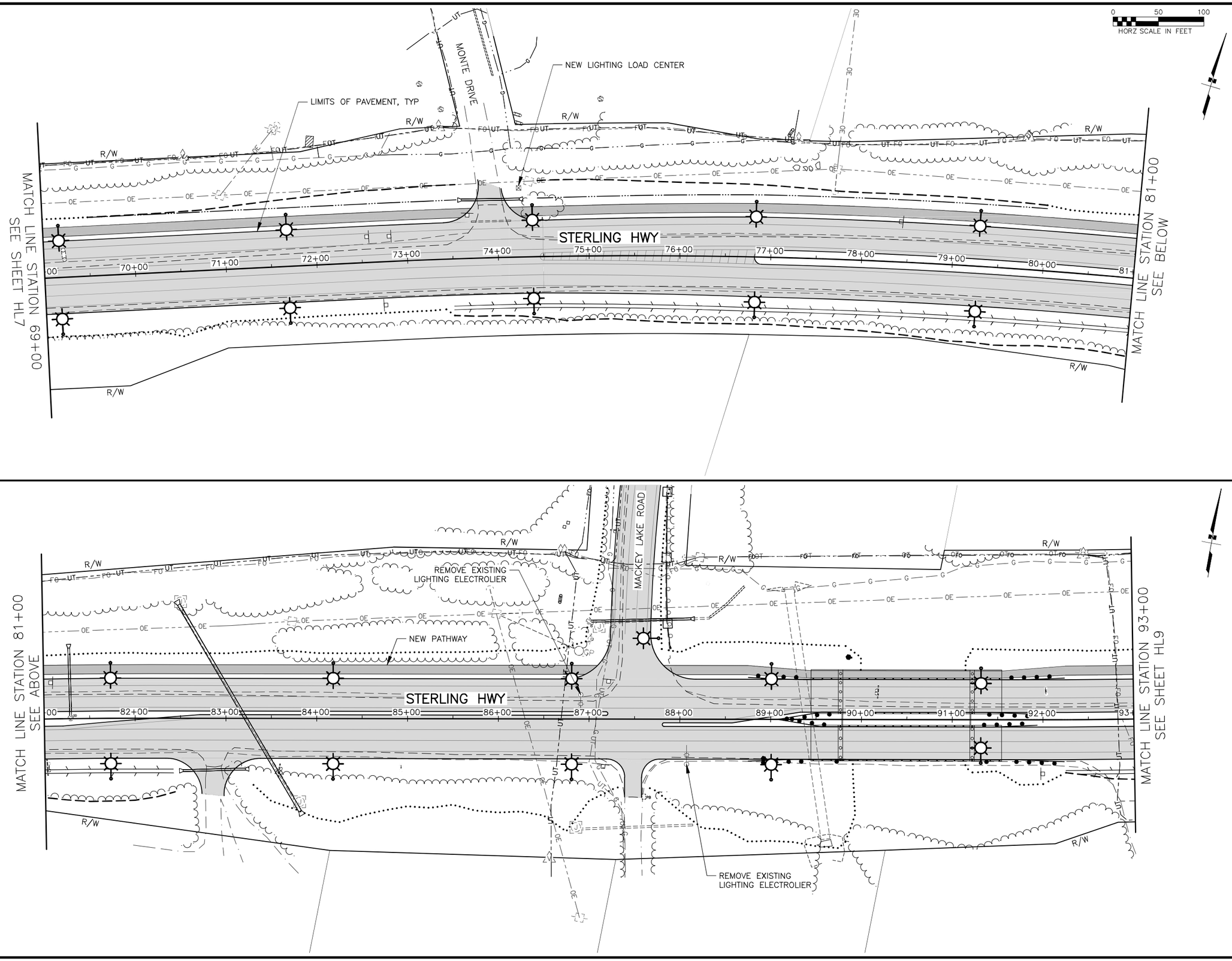
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 45+00 TO
STA 69+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:04 PM

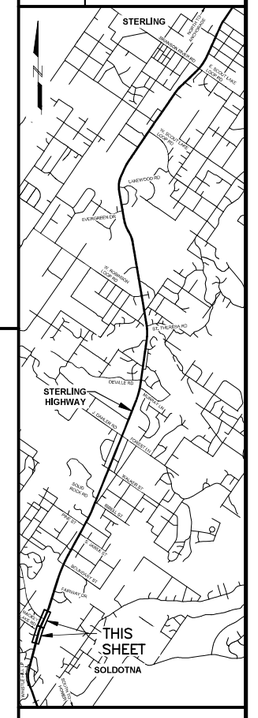
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG



SHEET NO.	TOTAL SHEETS
HL8	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

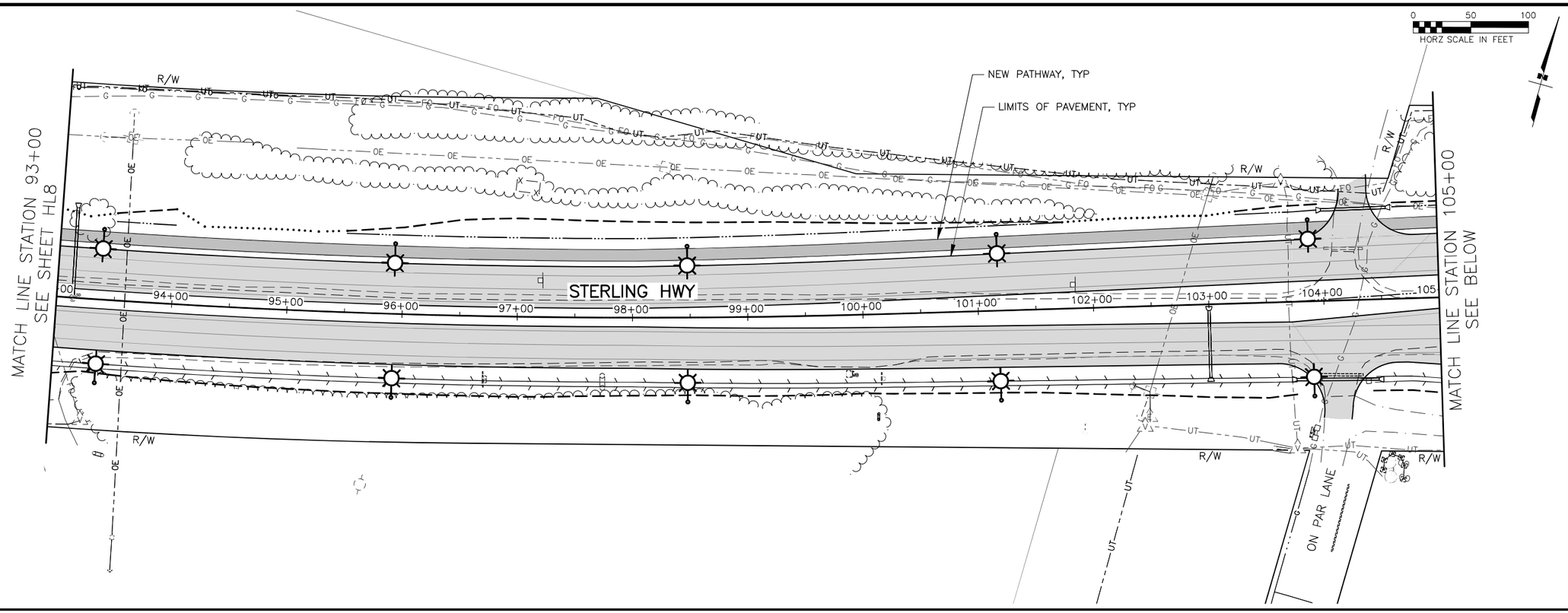
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

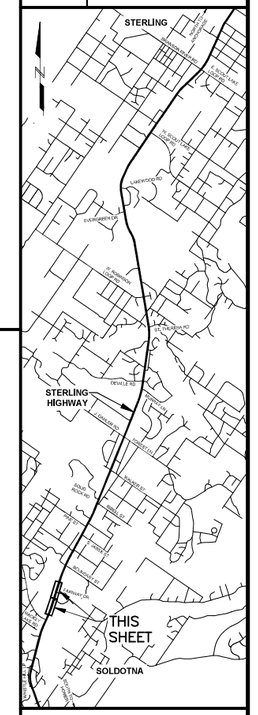


XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN

STA 69+00 TO
STA 93+00





SHEET NO.	TOTAL SHEETS
HL9	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN

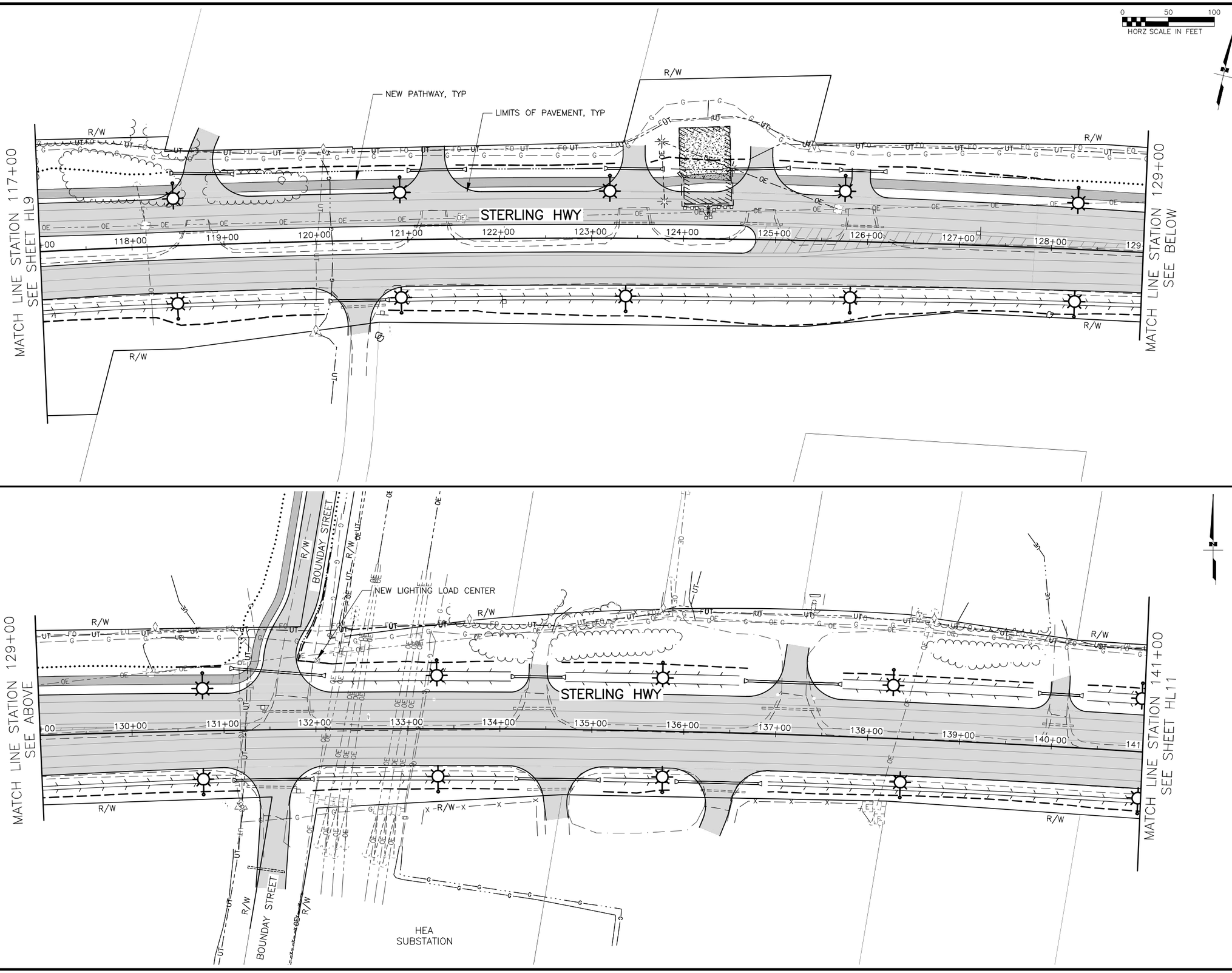
STA 93+00 TO
STA 117+00

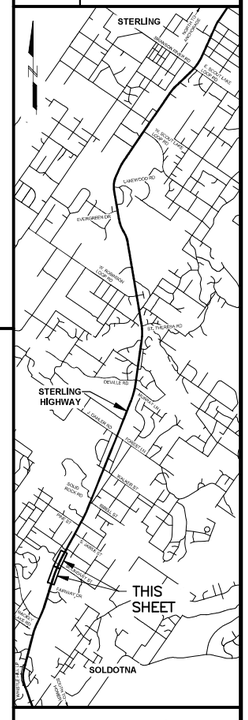
DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE TIME
6/20/2025 6:04 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG





SHEET NO.	TOTAL SHEETS
HL10	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

XXXXX
REVIEW

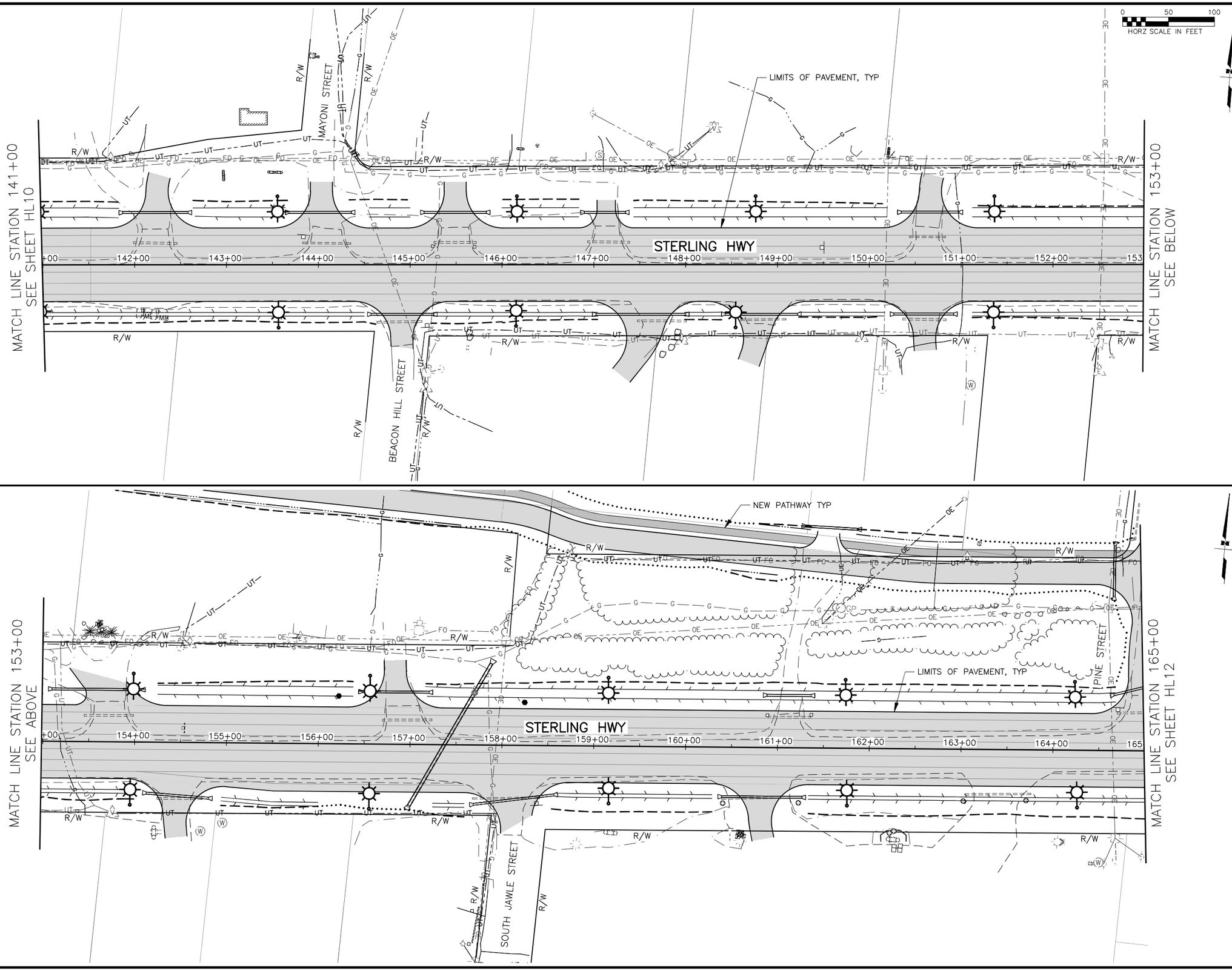
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 117+00 TO
STA 141+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE 1" = 50'
DATE 6/20/2025 TIME 6:05 PM
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

DESIGNED BY	---
CHECKED BY	---
DRAFTED BY	BCL

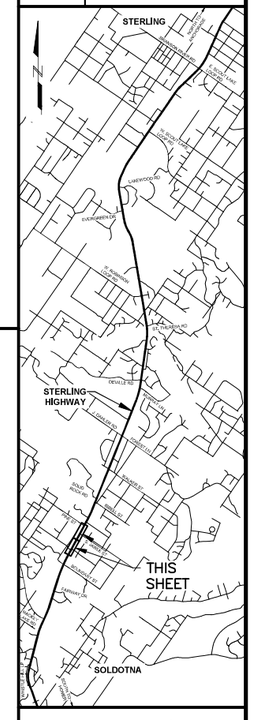
SCALE	DATE	TIME
1" = 50'	6/20/2025	6:05 PM



SHEET NO.	TOTAL SHEETS
HL11	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

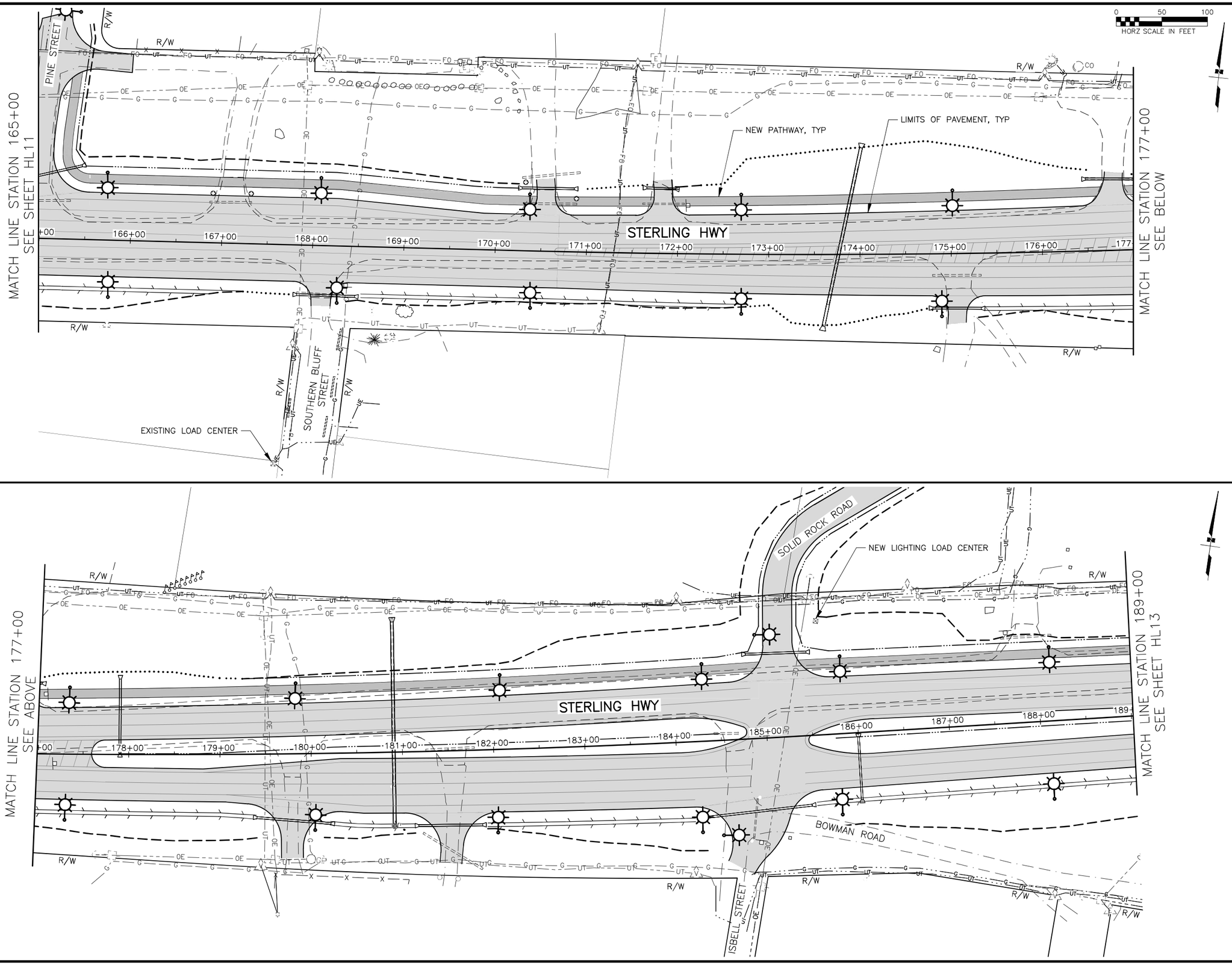
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

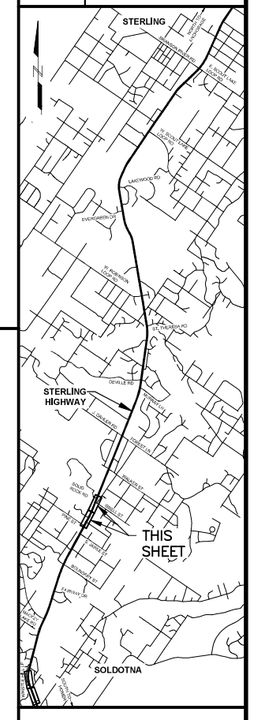


XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN

STA 141+00 TO
STA 165+00





SHEET NO.	TOTAL SHEETS
HL12	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 165+00 TO
STA 189+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE 1" = 50'
DATE 6/20/2025 TIME 6:05 PM
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

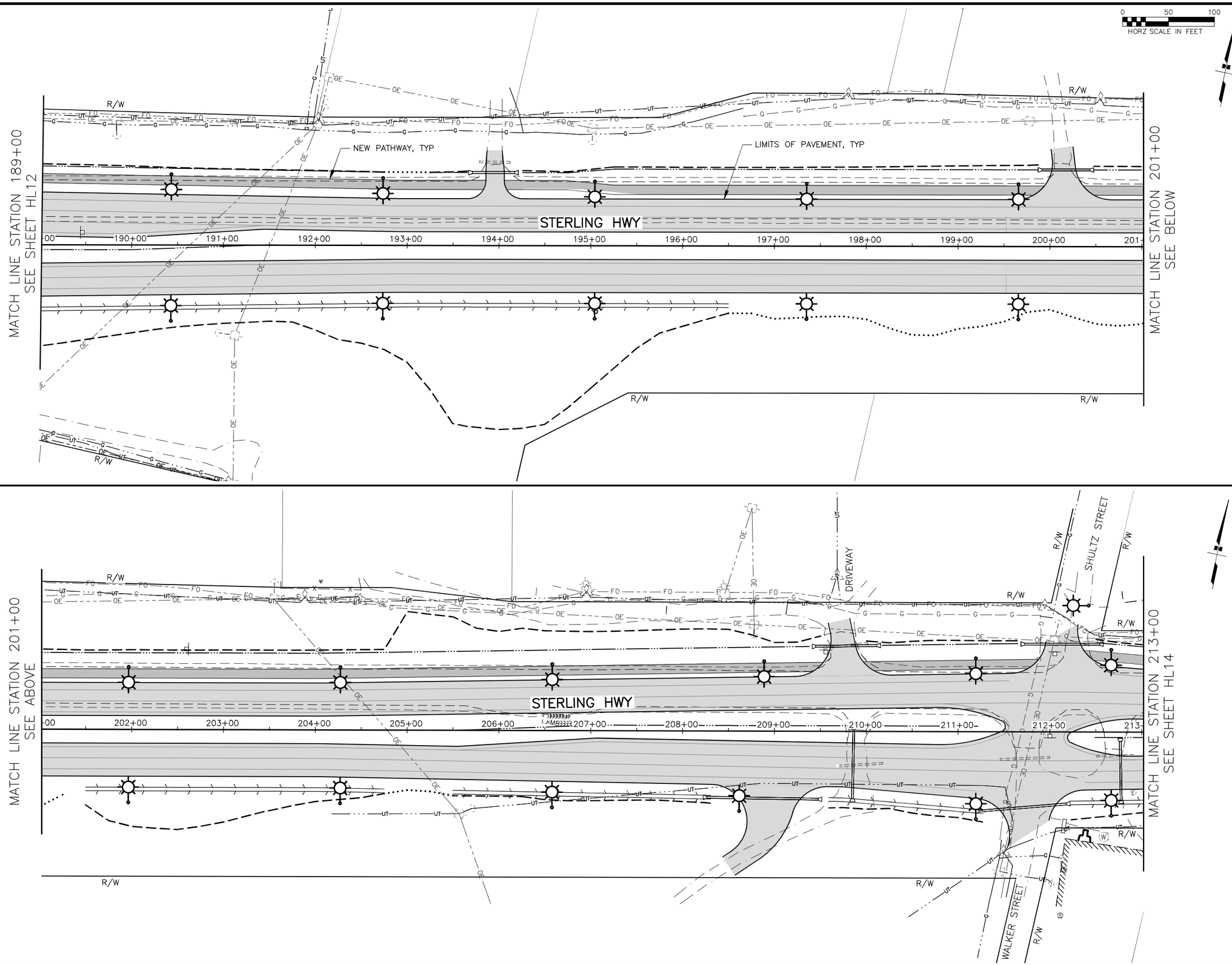
DESIGNED BY: ---
CHECKED BY: ---
DRAFTED BY: BCL

SCALE: 1" = 50'

DATE TIME: 6/20/2025 6:06 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

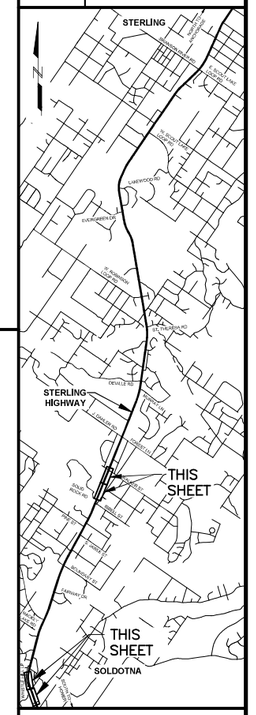
0 50 100
HORZ SCALE IN FEET



SHEET NO.	TOTAL SHEETS
HL13	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

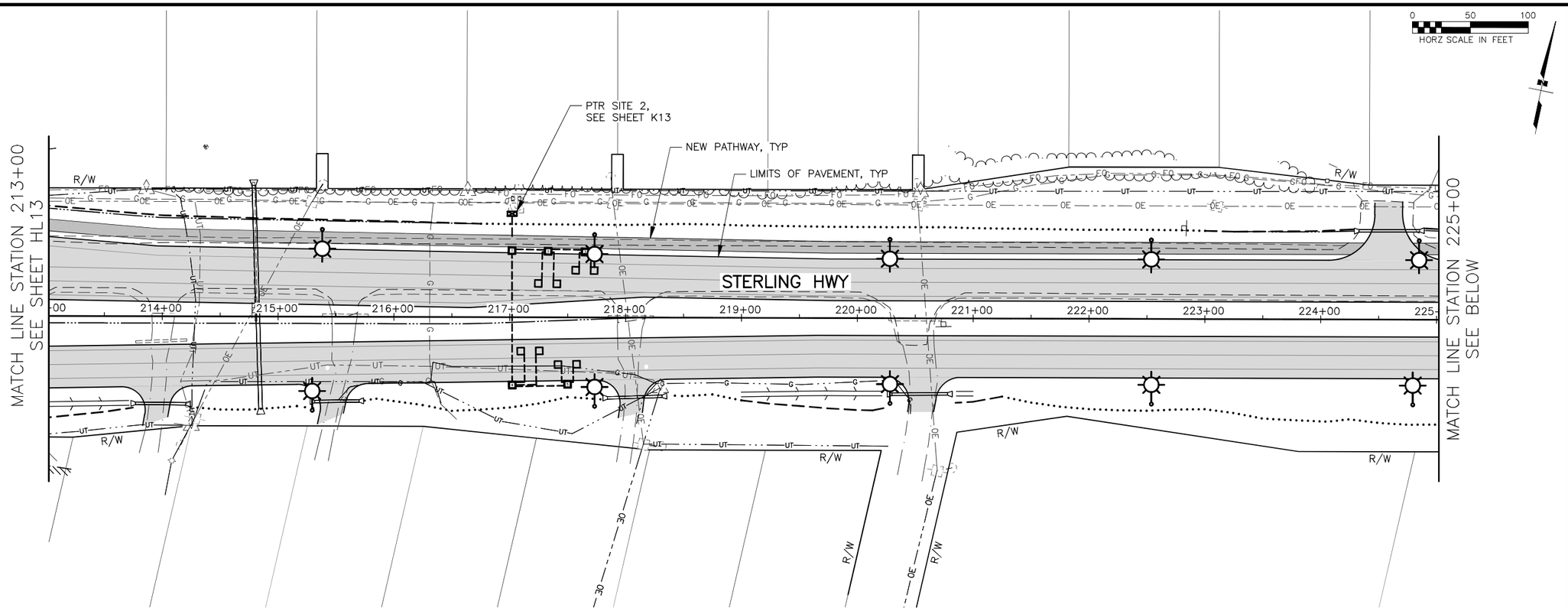
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

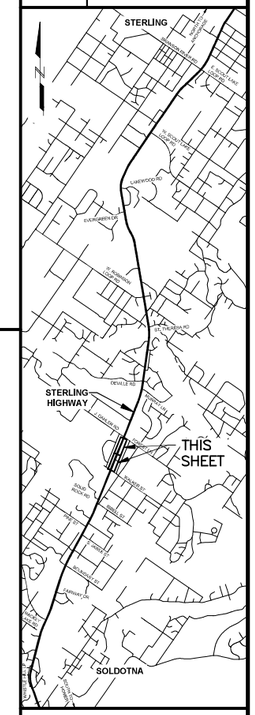


XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN

STA 189+00 TO STA 213+00





XXXXX REVIEW

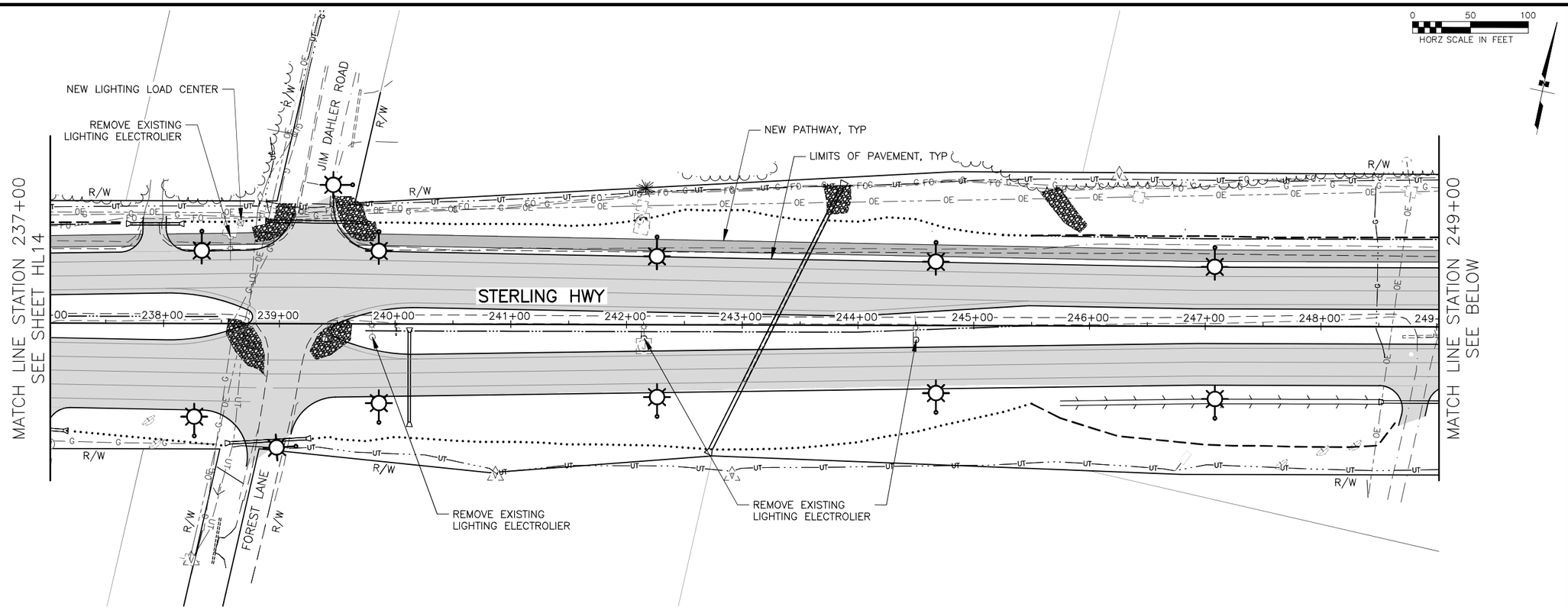
SHEET NO.	TOTAL SHEETS
HL14	HL32
STATE	YEAR
ALASKA	2026

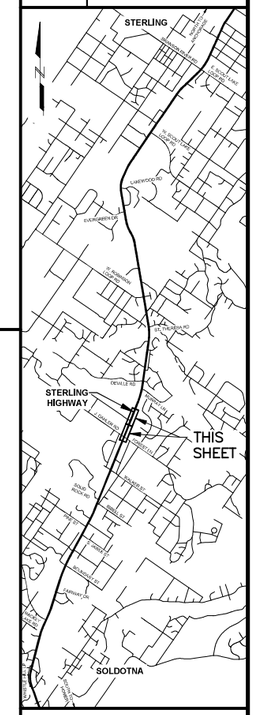
PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 213+00 TO
STA 237+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE 1" = 50'
DATE 6/20/2025 TIME 6:06 PM
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG





SHEET NO.	TOTAL SHEETS
HL15	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 ILLUMINATION PLAN

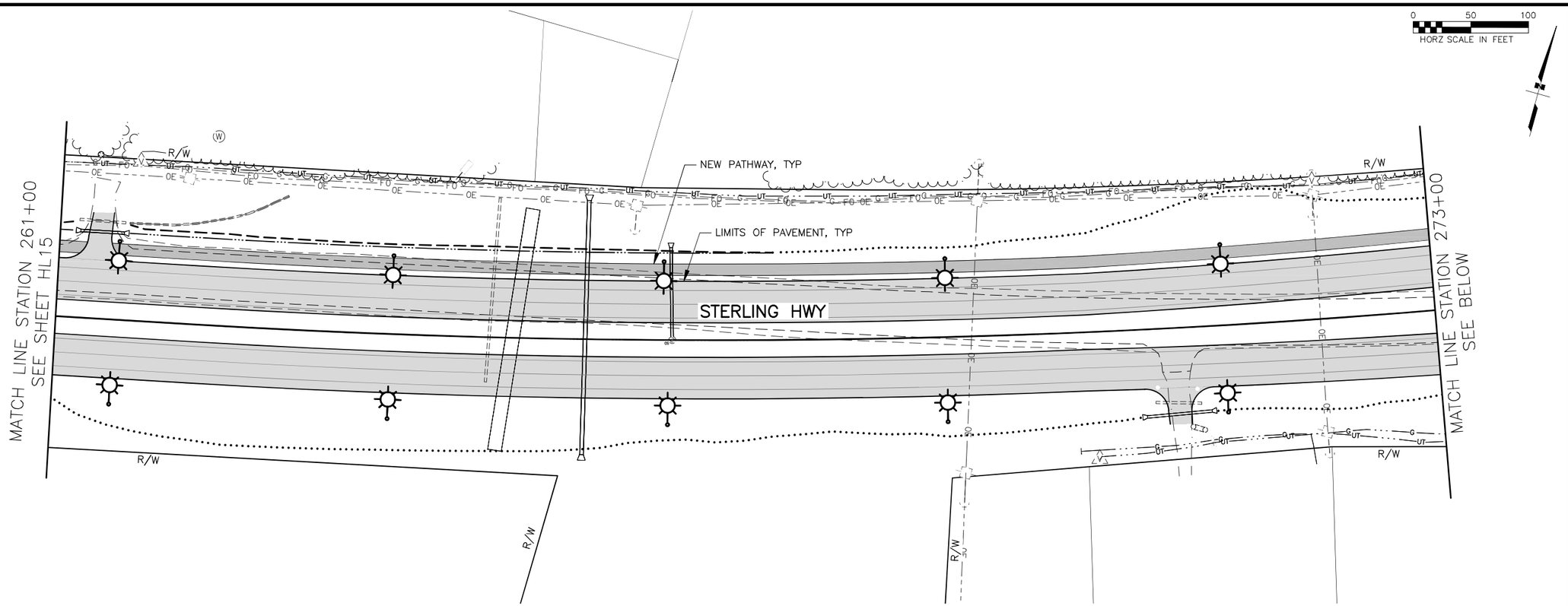
STA 237+00 TO STA 261+00

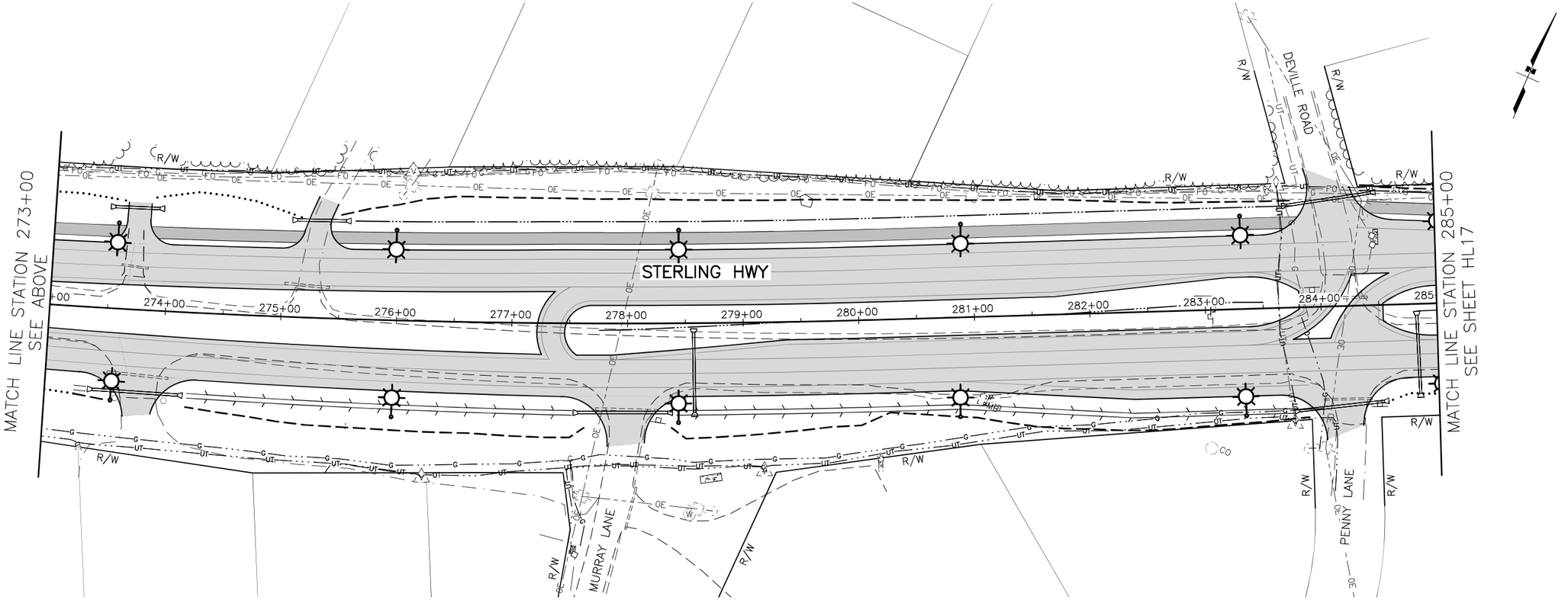
DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:07 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG



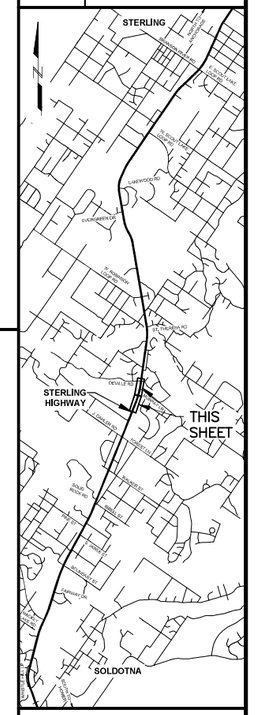


SHEET NO.	TOTAL SHEETS
HL16	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 ILLUMINATION PLAN

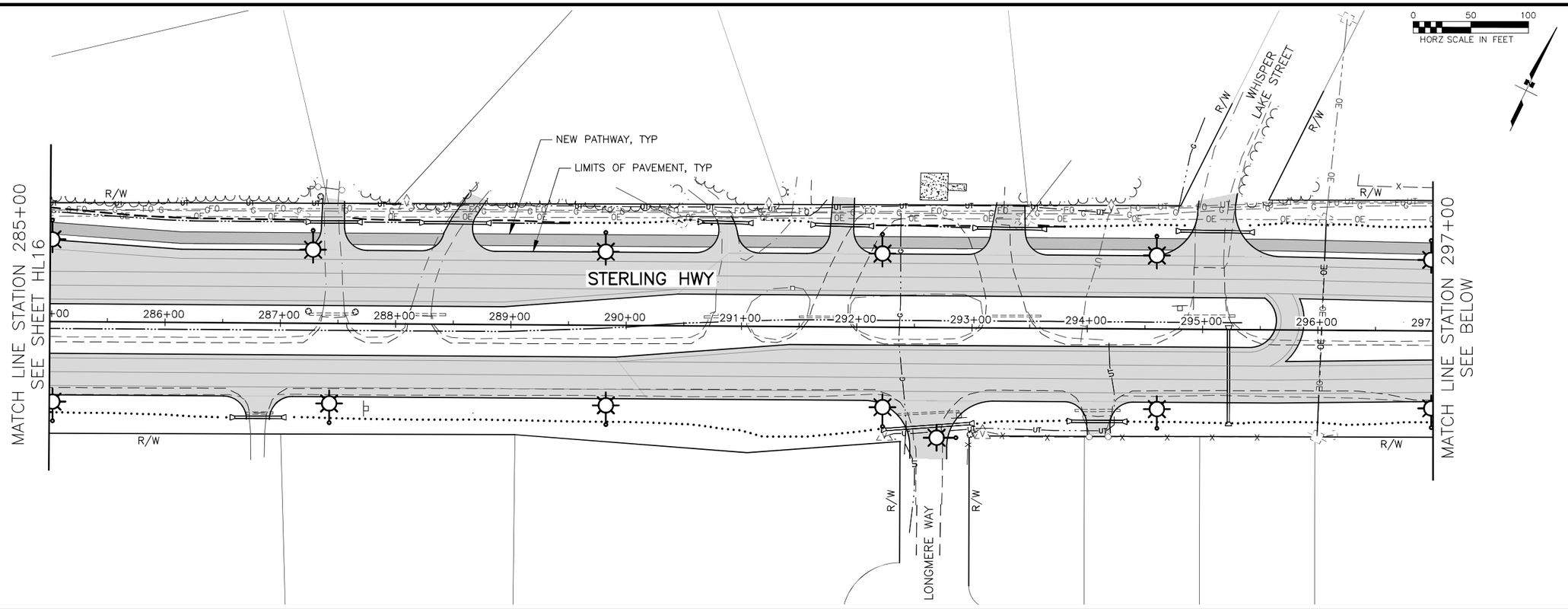
STA 261+00 TO STA 285+00

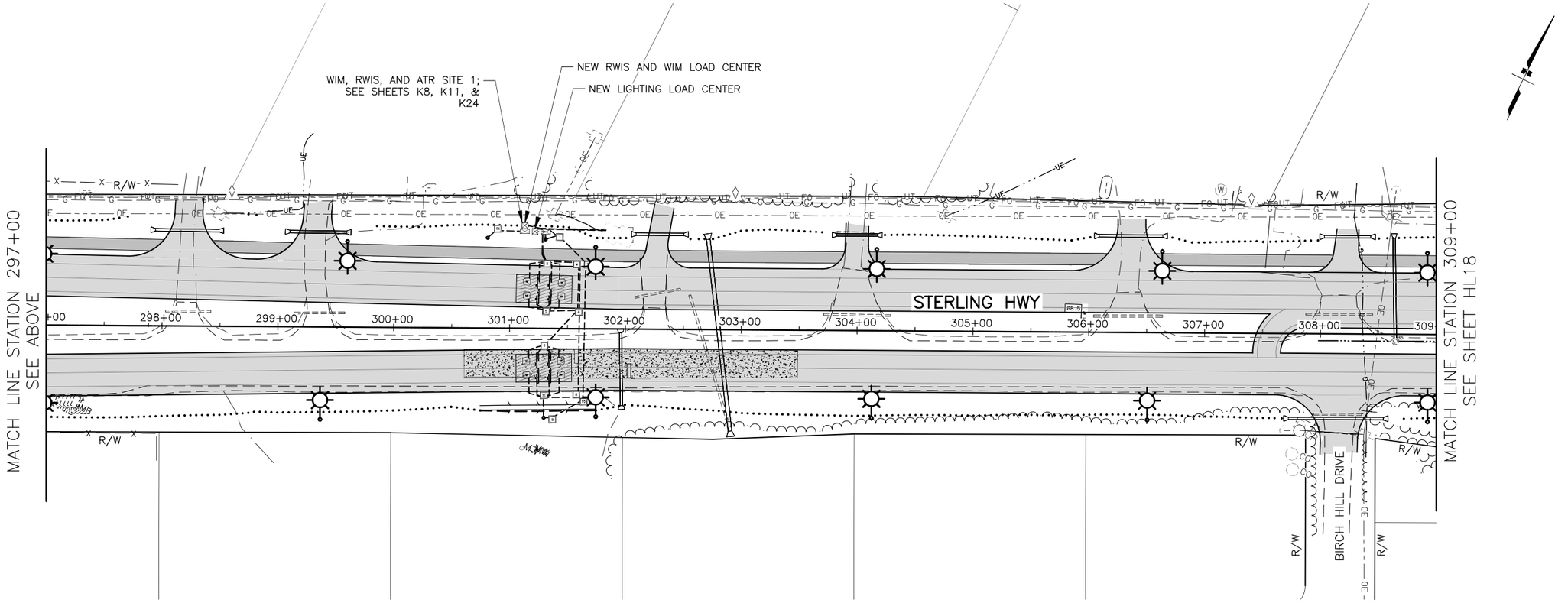
DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:07 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG



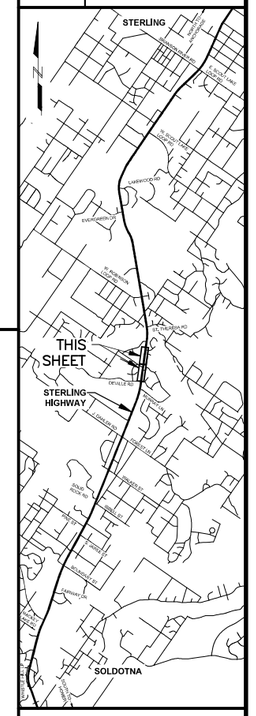


SHEET NO.	TOTAL SHEETS
HL17	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN

STA 285+00 TO
STA 309+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:08 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

DESIGNED BY	---
CHECKED BY	---
DRAFTED BY	BCL
SCALE	1" = 50'
DATE	6/20/2025
TIME	6:08 PM

DRAWING LOCATION
Z:\PROJECTS\0007739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

0 50 100
HORZ SCALE IN FEET

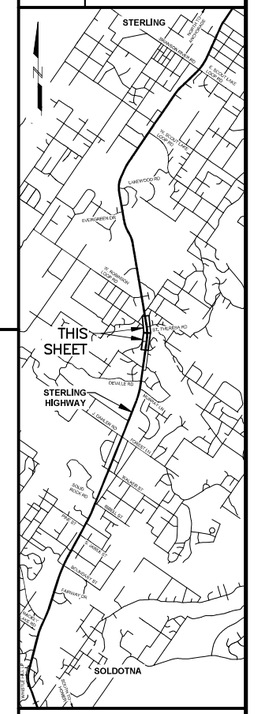
LAKE TERRACE DRIVE
R/W
NEW PATHWAY, TYP
LIMITS OF PAVEMENT, TYP
STERLING HWY
MATCH LINE STATION 309+00
SEE SHEET HL17
MATCH LINE STATION 321+00
SEE BELOW
310+00
311+00
312+00
313+00
314+00
315+00
317+00
318+00
319+00
320+00
321

ST THERESA ROAD
MATCH LINE STATION 321+00
SEE ABOVE
MATCH LINE STATION 333+00
SEE SHEET HL19
322+00
323+00
324+00
325+00
326+00
327+00
328+00
329+00
330+00
331+00
332+00
333

SHEET NO.	TOTAL SHEETS
HL18	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

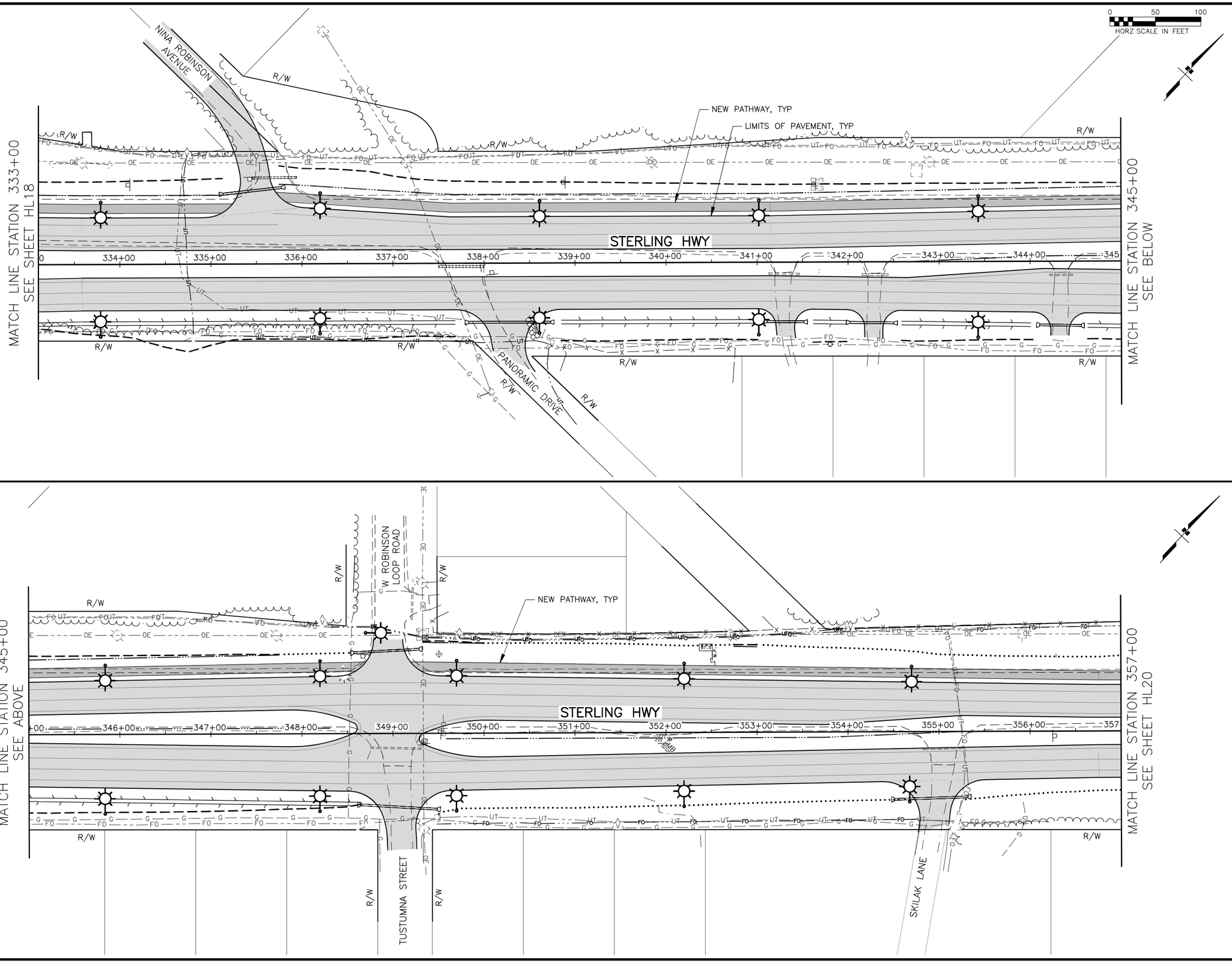
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

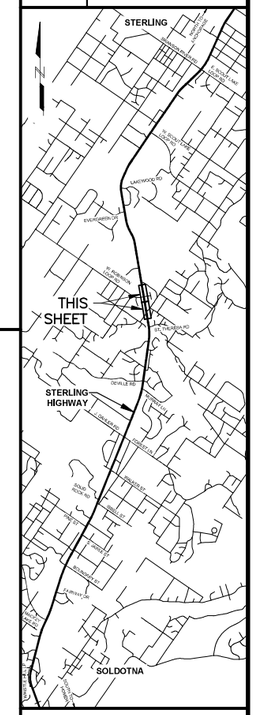


XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 309+00 TO
STA 333+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE 1" = 50'
DATE 6/20/2025 TIME 6:08 PM
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG





SHEET NO.	TOTAL SHEETS
HL19	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

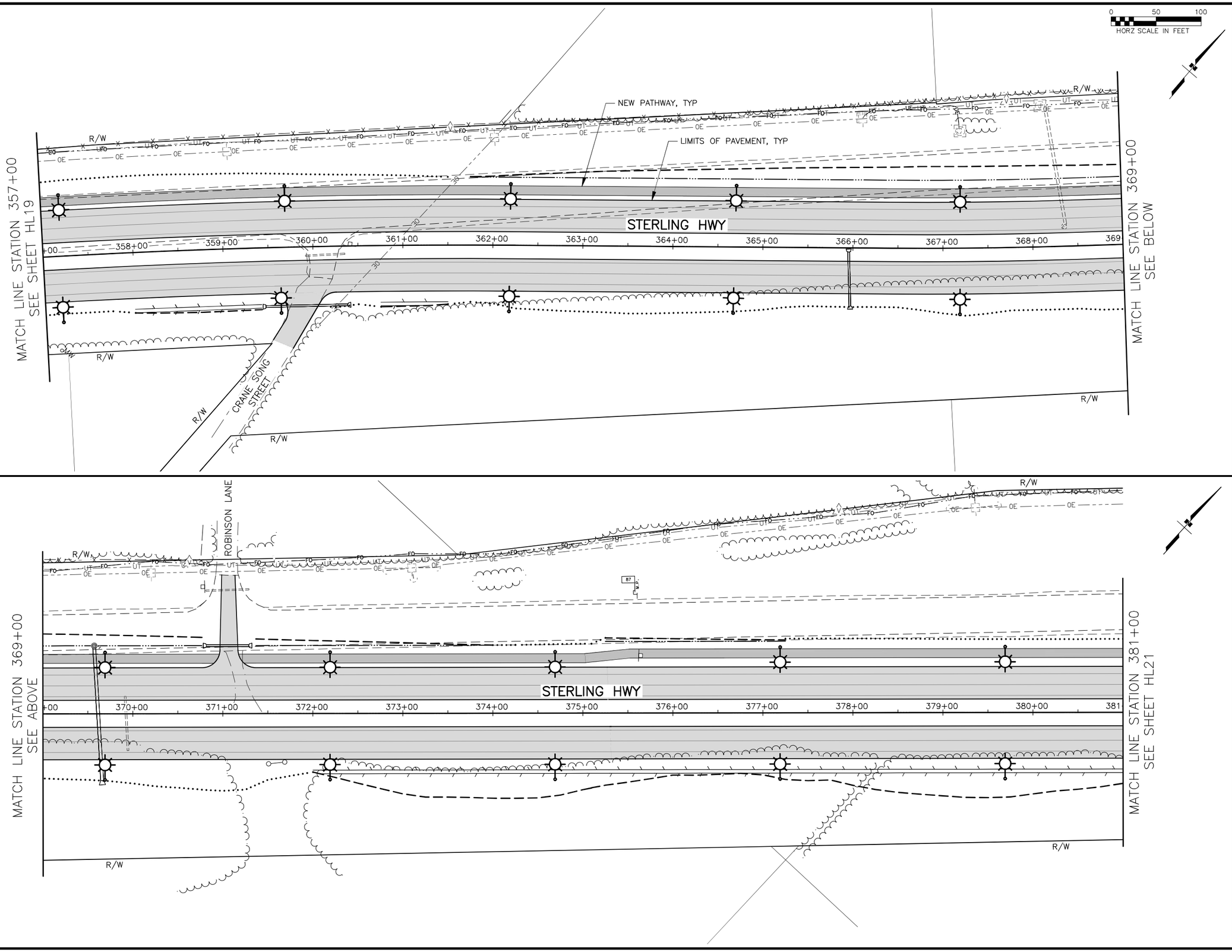
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 ILLUMINATION PLAN

STA 333+00 TO
STA 357+00

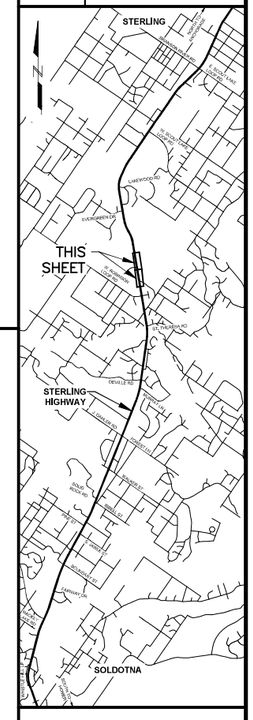


SHEET NO.	TOTAL SHEETS
HL20	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 ILLUMINATION PLAN

STA 357+00 TO
STA 381+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE TIME
6/20/2025 6:09 PM

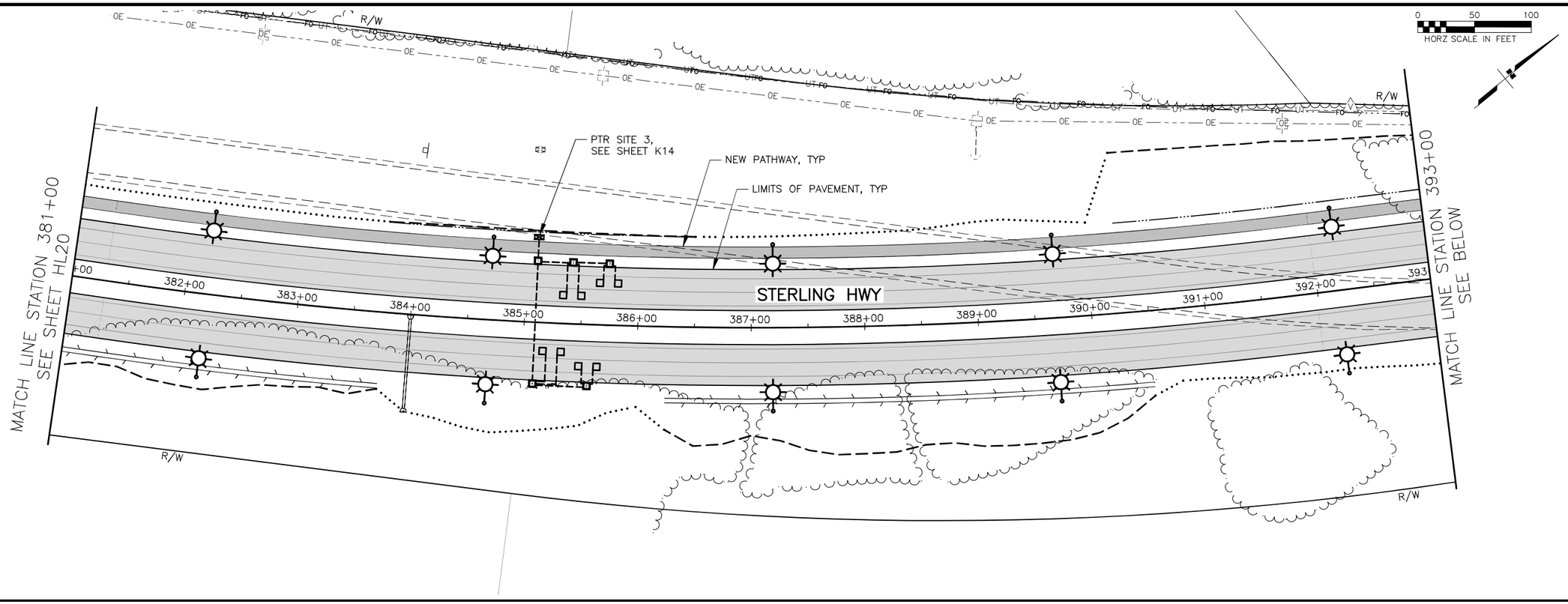
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

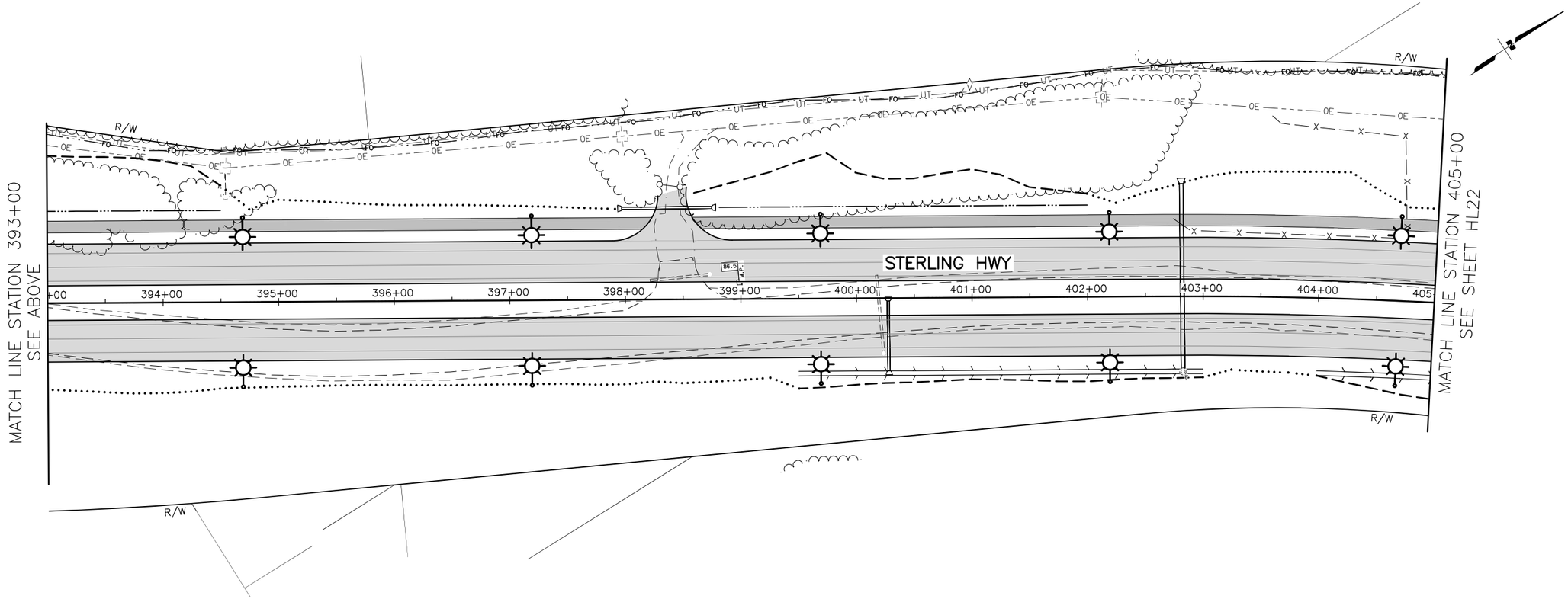
DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:09 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

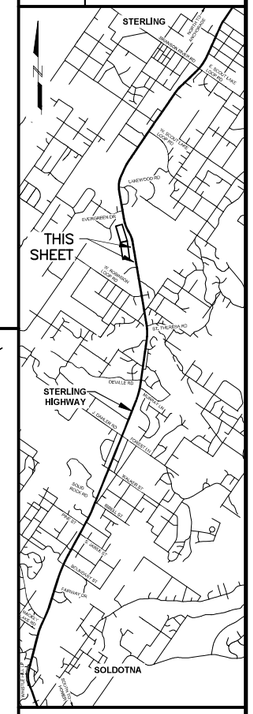




SHEET NO.	TOTAL SHEETS
HL21	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 381+00 TO
STA 405+00

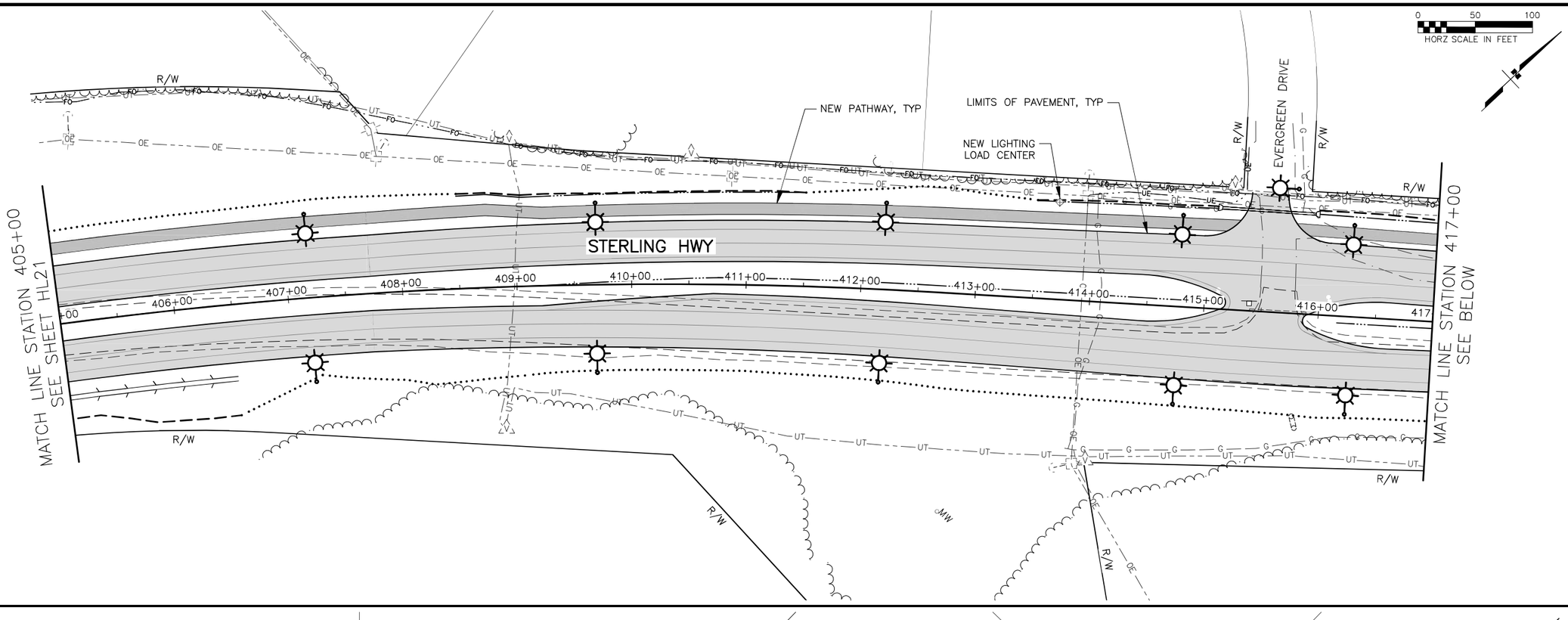
DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

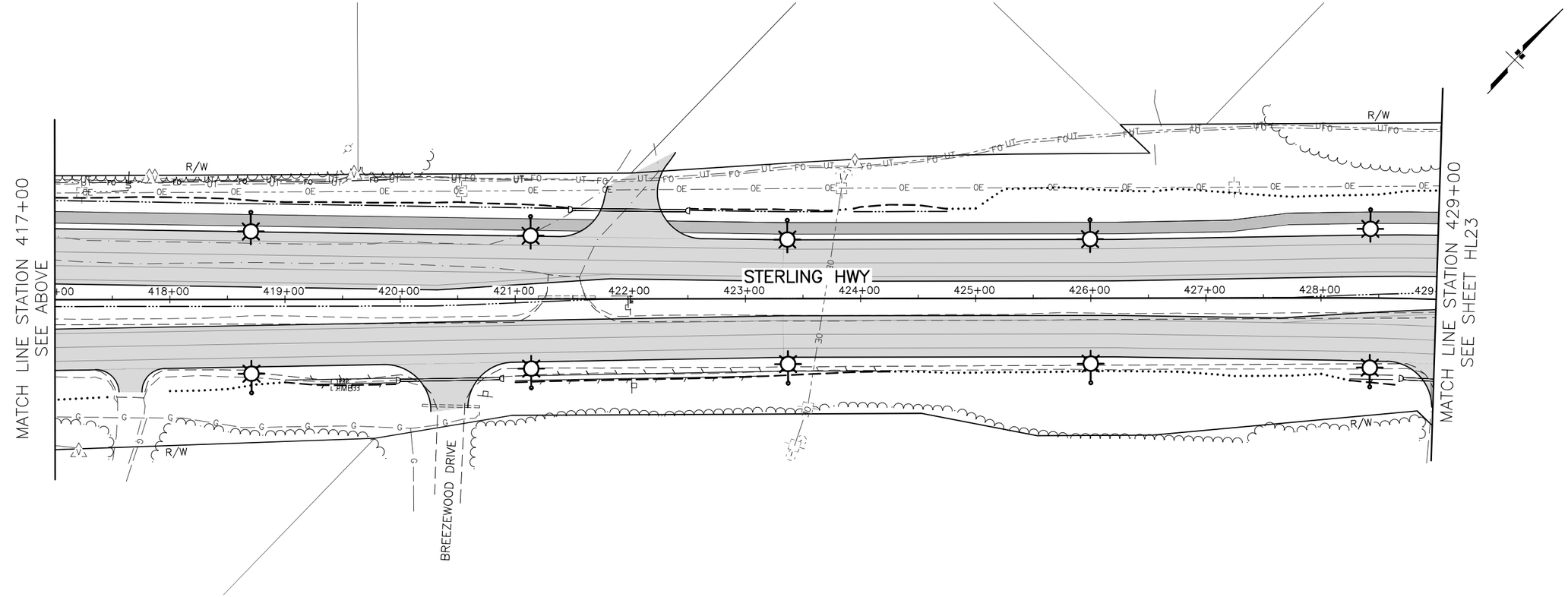
SCALE 1" = 50'

DATE 6/20/2025 TIME 6:10 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

0 50 100
HORZ SCALE IN FEET

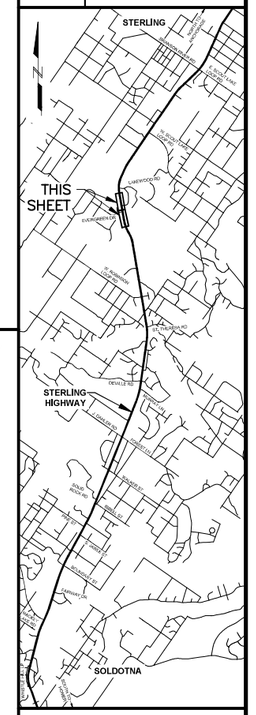




SHEET NO.	TOTAL SHEETS
HL22	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

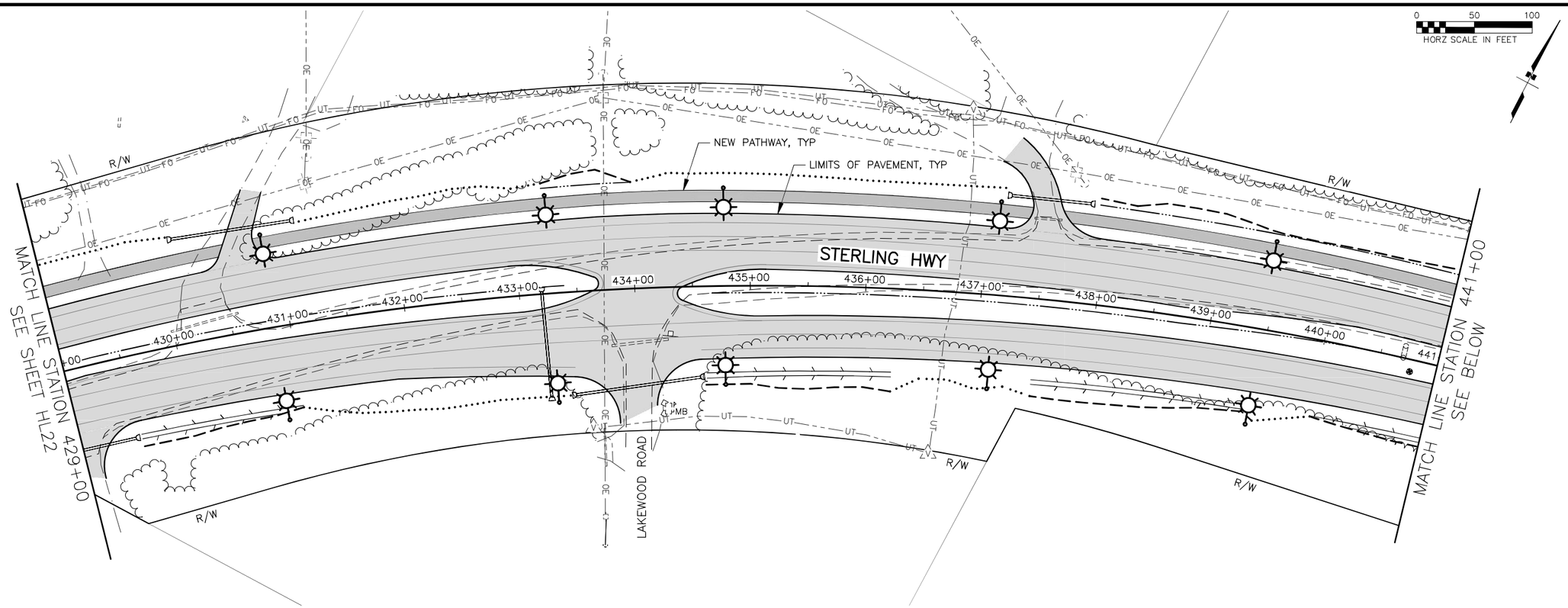
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

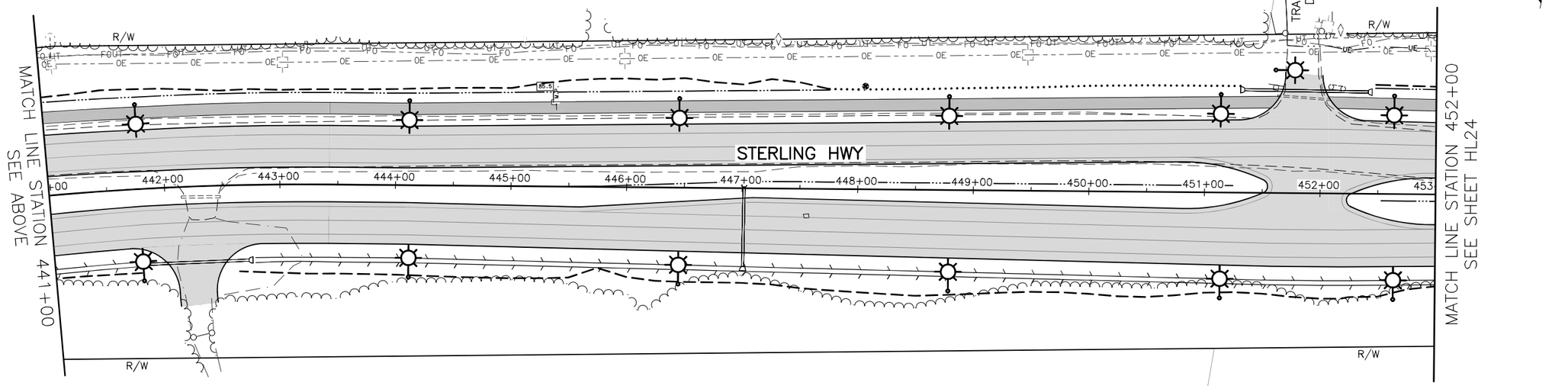


XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN

STA 405+00 TO
STA 429+00



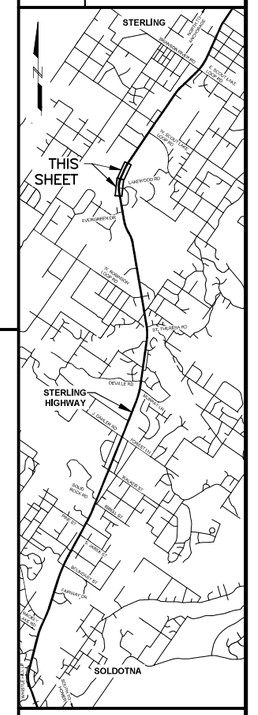


SHEET NO.	TOTAL SHEETS
HL23	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 ILLUMINATION PLAN

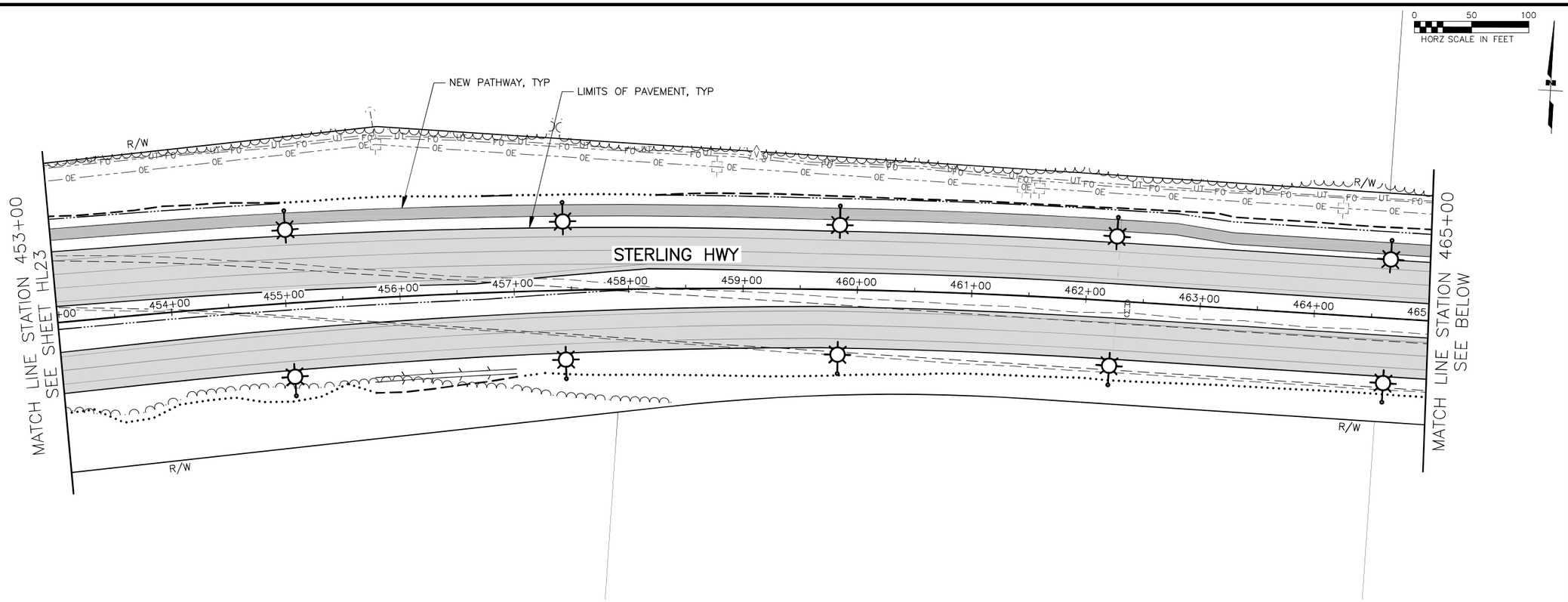
STA 429+00 TO STA 452+00

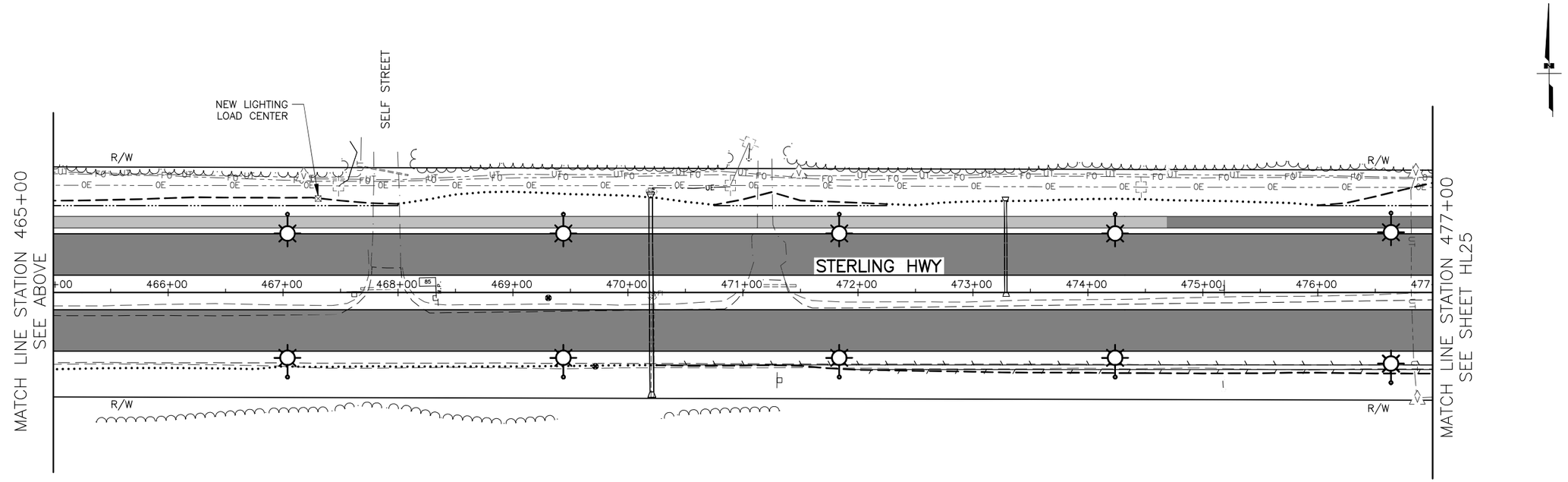
DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:10 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG



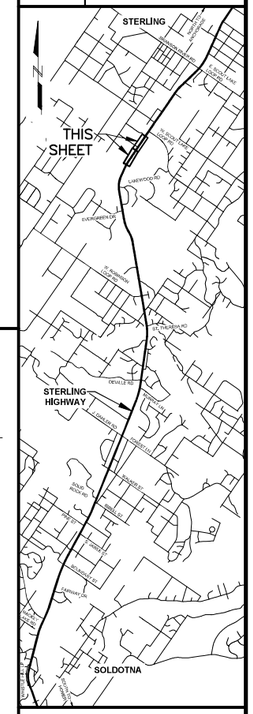


SHEET NO.	TOTAL SHEETS
HL24	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 ILLUMINATION PLAN

STA 452+00 TO
STA 477+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:10 PM

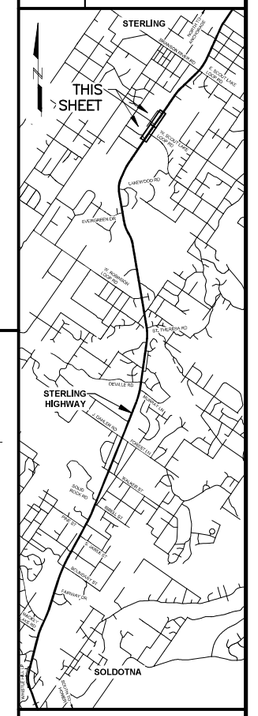
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

SHEET NO.	TOTAL SHEETS
HL25	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

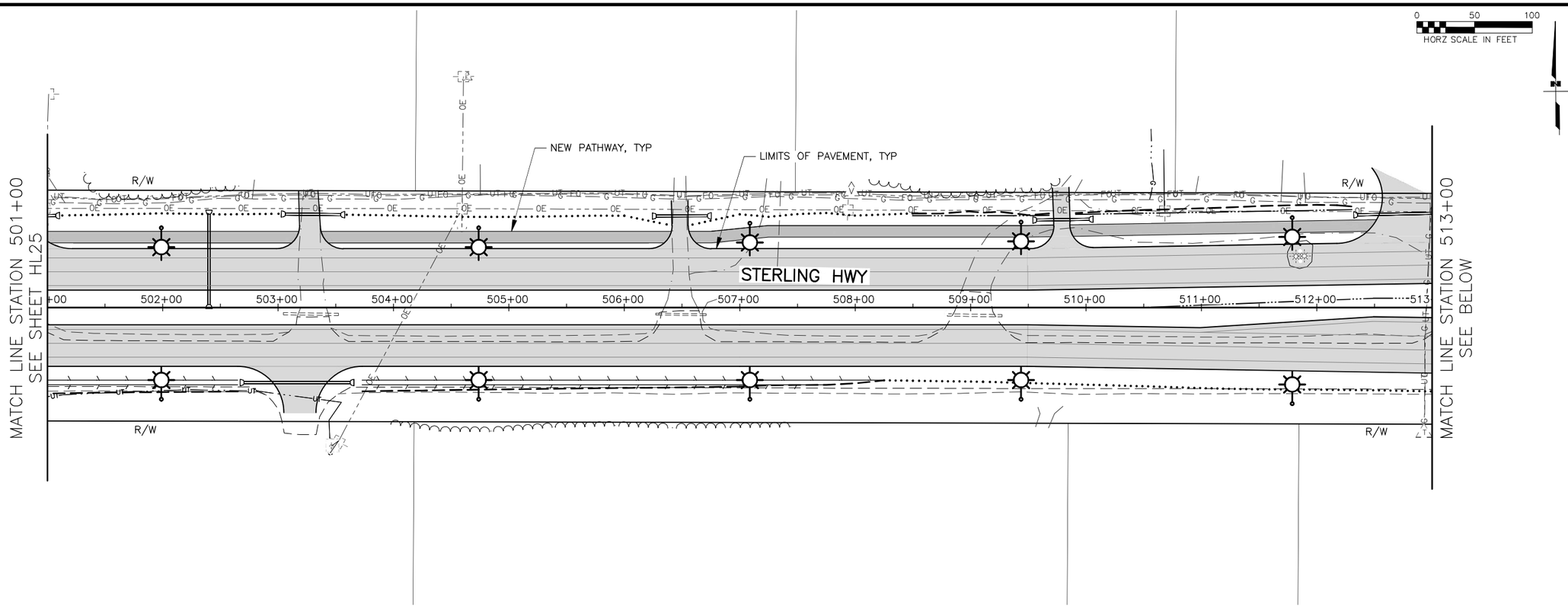


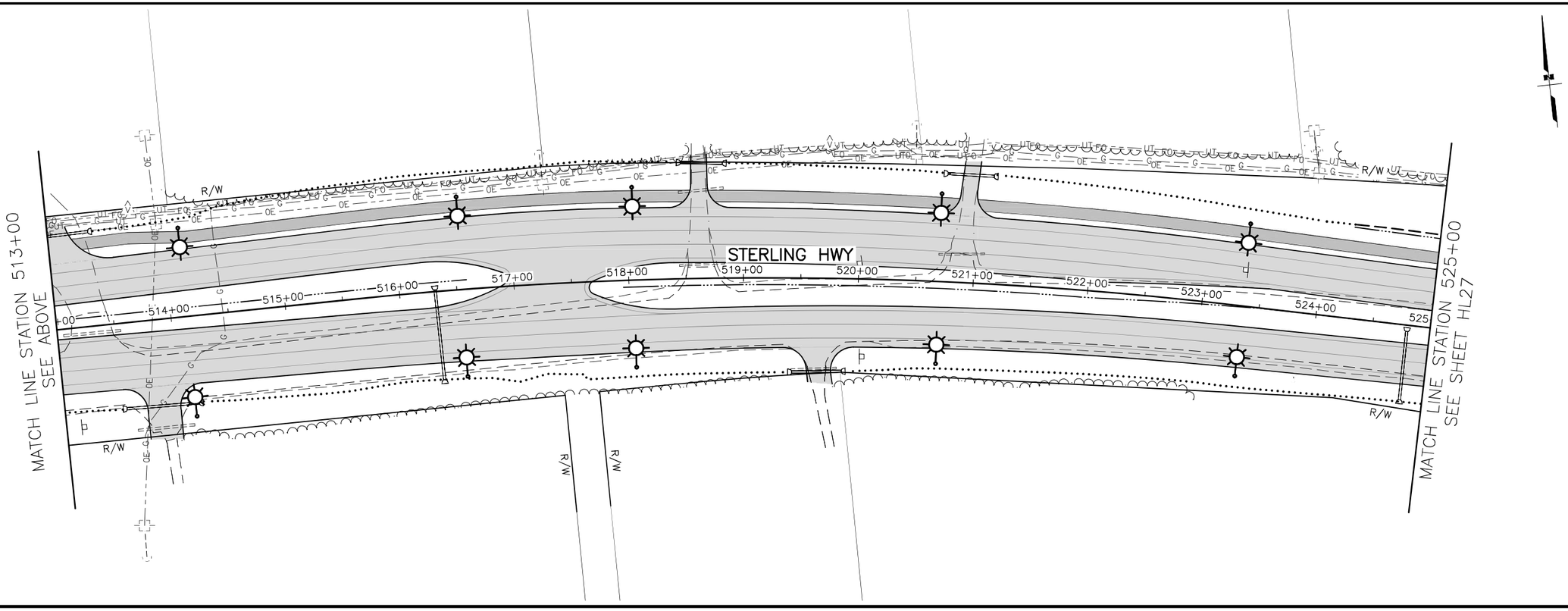
XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 477+00 TO
STA 501+00

DESIGNED BY
CHECKED BY
DRAFTED BY BCL
SCALE 1" = 50'
DATE 6/20/2025 TIME 6:11 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG



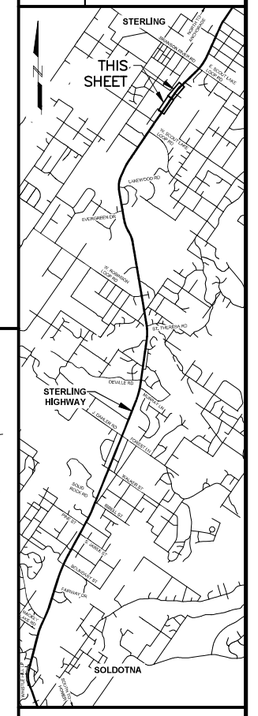


SHEET NO.	TOTAL SHEETS
HL26	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 ILLUMINATION PLAN

STA 501+00 TO
STA 525+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:11 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

KPB CENTRAL EMERGENCY
SERVICES STATION 3

0 50 100
HORZ SCALE IN FEET

NEW PATHWAY, TYP

LIMITS OF PAVEMENT, TYP

MATCH LINE STATION 525+00
SEE SHEET HL26

MATCH LINE STATION 537+00
SEE BELOW

STERLING HWY

526+00 527+00 528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00

R/W

REMOVE EXISTING
LIGHTING ELECTROLIER

REMOVE EXISTING
LIGHTING ELECTROLIER

REMOVE EXISTING
LIGHTING ELECTROLIER

STERLING
ELEMENTARY SCHOOL

REMOVE EXISTING
LIGHTING ELECTROLIER

REMOVE EXISTING
LIGHTING ELECTROLIER

SWANSON RIVER
ROAD

NEW LIGHTING
LOAD CENTER

MATCH LINE STATION 537+00
SEE ABOVE

MATCH LINE STATION 549+00
SEE SHEET HL28

STERLING HWY

538+00 539+00 540+00 541+00 542+00 543+00 544+00 545+00 546+00 547+00 548+00

REMOVE EXISTING
LIGHTING ELECTROLIER

REMOVE EXISTING
LIGHTING ELECTROLIER

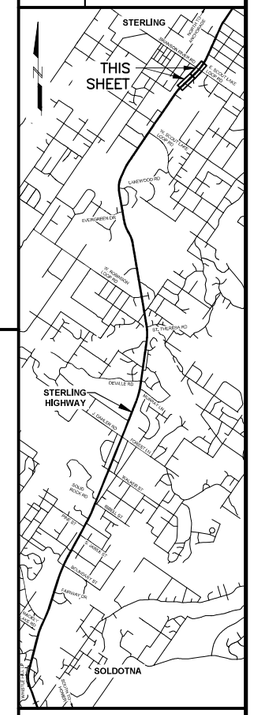
SCOUT LAKE
ROAD

REMOVE EXISTING
LIGHTING ELECTROLIER

SHEET NO.	TOTAL SHEETS
HL27	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
0A33026/
CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 525+00 TO
STA 549+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE TIME
6/20/2025 6:12 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE 1" = 50'

DATE 6/20/2025 TIME 6:12 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

HORZ SCALE IN FEET 0 50 100

MATCH LINE STATION 549+00
SEE SHEET HL27

STERLING HWY

550+00 551+00 552+00 553+00 554+00 555+00 556+00 557+00 558+00 559+00 560+00 561

254.95'

NEW PATHWAY, TYP

LIMITS OF PAVEMENT, TYP

R/W

MATCH LINE STATION 561+00
SEE BELOW

PTR SITE 5,
SEE SHEET K16

MATCH LINE STATION 561+00
SEE ABOVE

562+00 563+00 564+00 565+00 566+00 567+00 568+00 569+00 570+00 571+00 572+00 573

GRANDVIEW DRIVE

LEE STREET

BARBARA STREET

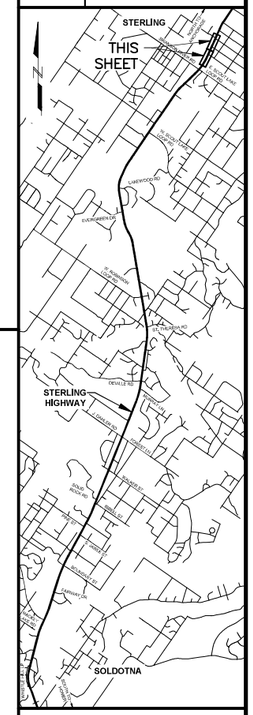
REMOVE EXISTING
LIGHTING ELECTROLIER

MATCH LINE STATION 573+00
SEE SHEET HL29

SHEET NO.	TOTAL SHEETS
HL28	HL32
STATE	YEAR
ALASKA	2026

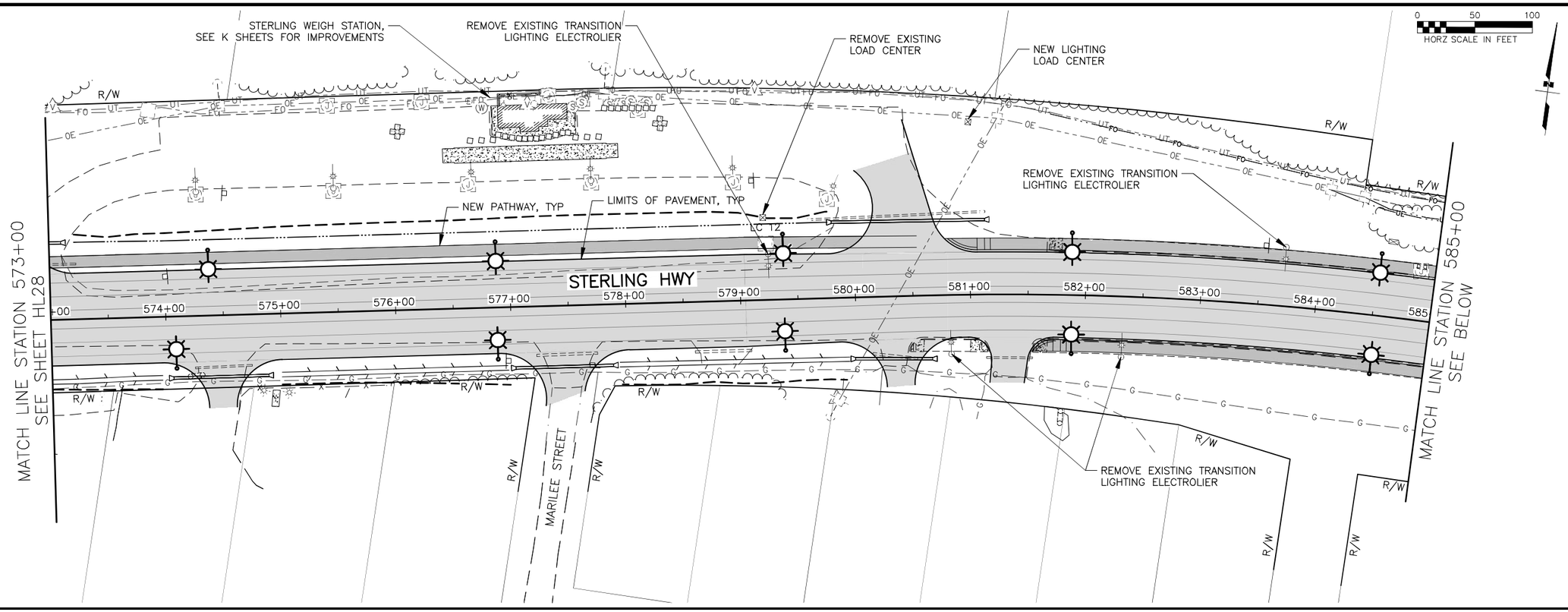
PROJECT DESIGNATION
0A33026/
CFHWY00130

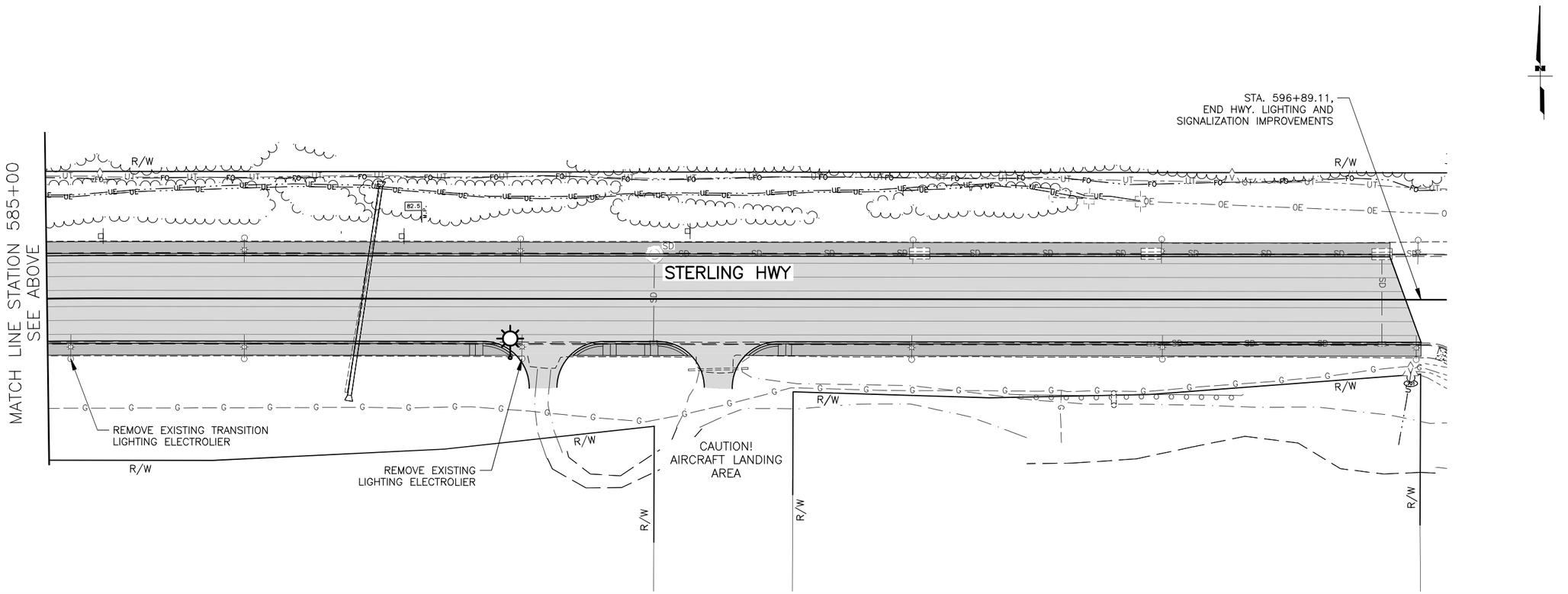
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX
REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94
ILLUMINATION PLAN
STA 549+00 TO
STA 573+00



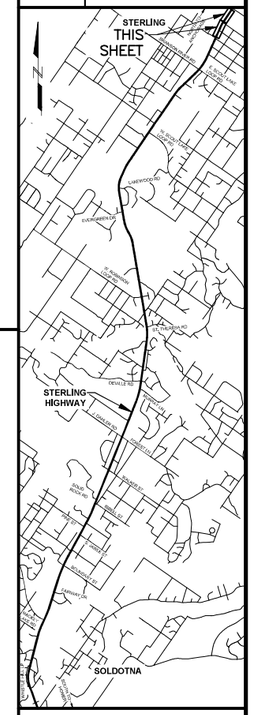


SHEET NO.	TOTAL SHEETS
HL29	HL32
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION

0A33026/ CFHWY00130

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



XXXXX REVIEW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 ILLUMINATION PLAN

STA 573+00 TO STA 597+00

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

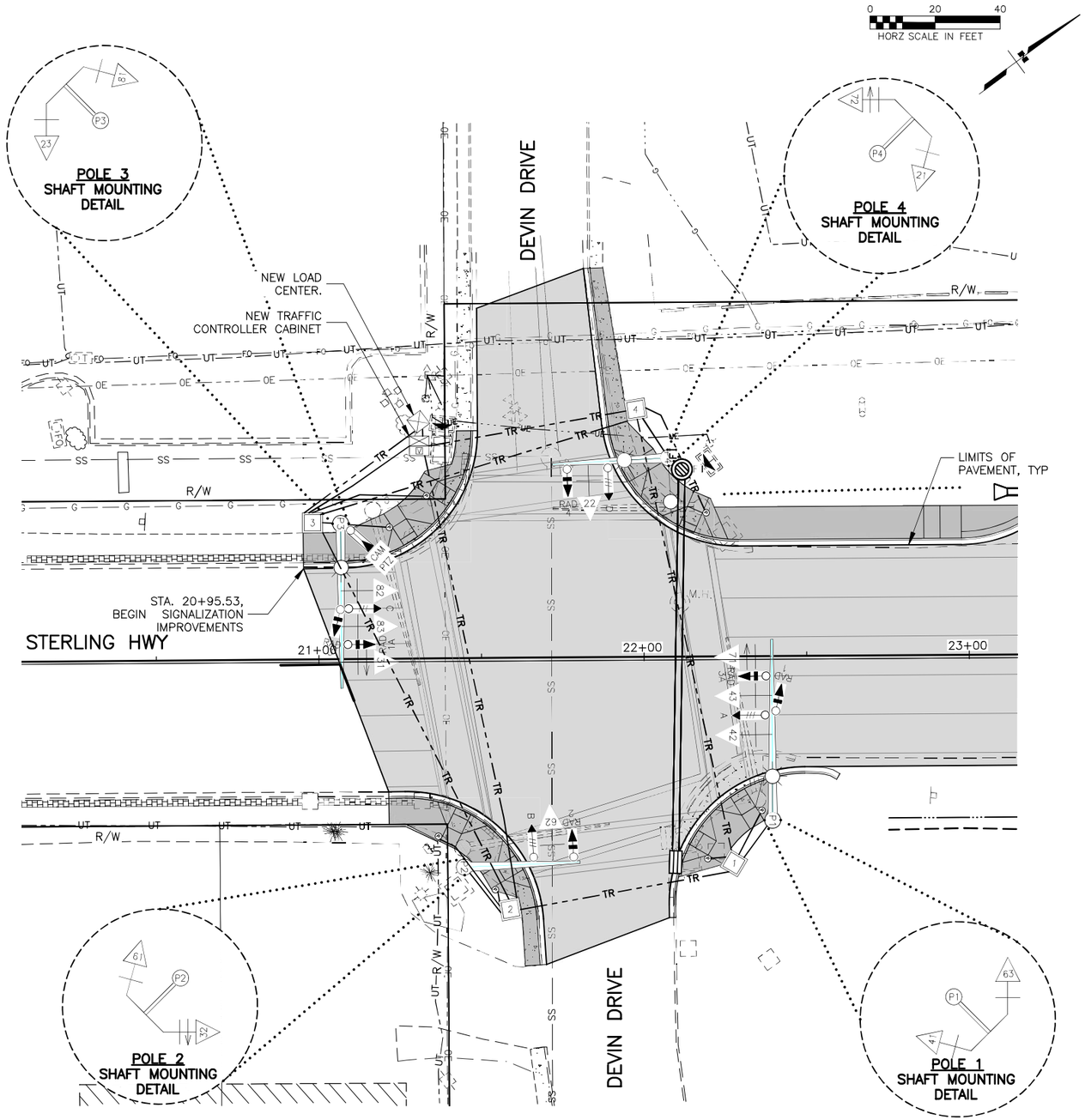
SCALE 1" = 50'

DATE 6/20/2025 TIME 6:12 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL5-HL29_PLANS.DWG

DESIGNED BY	---
CHECKED BY	---
DRAFTED BY	BCL
SCALE	1" = 20'
DATE	6/20/2025
TIME	6:14 PM

DRAWING LOCATION
C:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL30-HL31_SGNL PLANS.DWG



NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	HL30	HL32

NOTE:
1.) DISCONNECT EXISTING COPPER INTERCONNECT RUNNING TO SOUTH, PULL TO NEAREST JUNCTION BOX, INSTALL CONDUIT TO CONNECT THE NEW TRAFFIC CONTROLLER TO THE EXISTING INTERCONNECT CONDUIT, AND RECONNECT COPPER TO NEW TRAFFIC CONTROLLER.

FOUNDATION SCHEDULE

ITEM	STATION	OFFSET	STRUCTURE	REMARKS
TC			NEW TRAFFIC CONTROLLER	
P1			POLE 1, CIDH	
P2			POLE 2, CIDH	
P3			POLE 3, CIDH	
P4			POLE 4, CIDH	
LC			NEW LOAD CENTER	

JUNCTION BOX SCHEDULE

JBOX #	STATION	OFFSET	TYPE	REMARKS
1			2	
2			2	
3			2	
4			2	

6/20/2025
LOCAL
REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

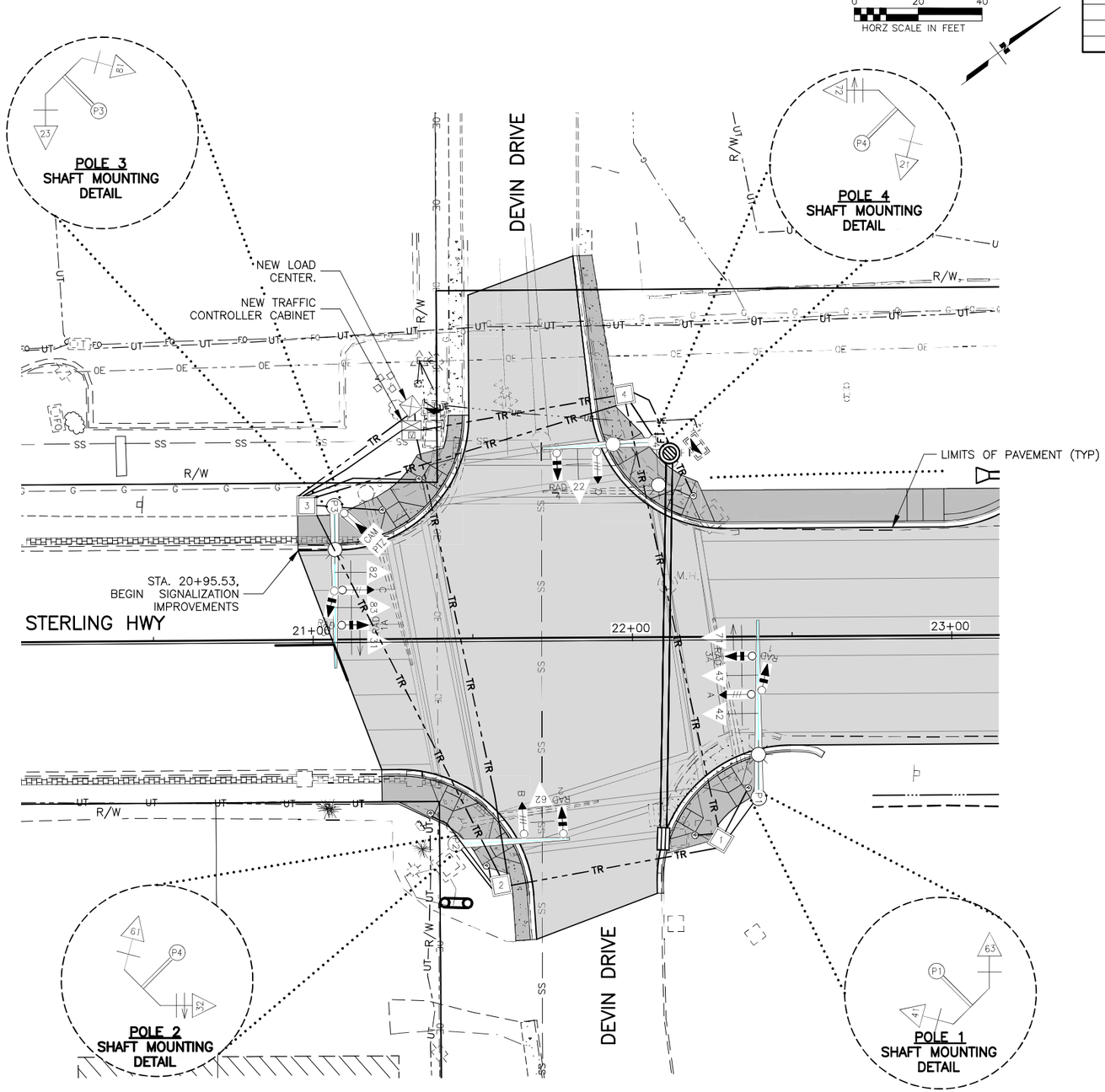
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

SIGNAL SYSTEM PLAN

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	HL31	HL32

0 20 40
HORZ SCALE IN FEET

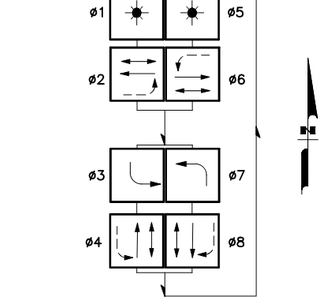


OPTICOM DETECTOR SCHEDULE

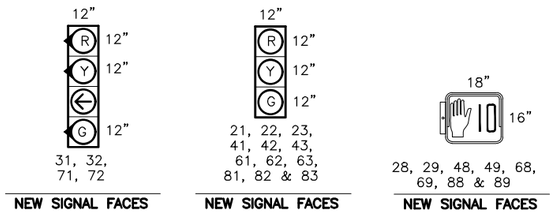
LOCATION	DETECTOR ID	PHASE CALL	FACING DIRECTION	MODEL	REMARKS
SIGNAL POLE # MASTARM	GPS	ALL	N	3100	

RADAR DETECTION SCHEDULE

LOCATION	ID	PHASE DET.	FACING DIRECTION	REMARKS
SIGNAL POLE 1 MASTARM	1	3.8	NW	SMARTSENSOR MATRIX
SIGNAL POLE 1 MASTARM	1A	8	N	SMARTSENSOR ADVNCED
SIGNAL POLE 2 MASTARM	2	2	E	SMARTSENSOR MATRIX
SIGNAL POLE 3 MASTARM	3	4.7	SE	SMARTSENSOR MATRIX
SIGNAL POLE 3 MASTARM	3A	4	S	SMARTSENSOR ADVNCED
SIGNAL POLE 4 MASTARM	4	6	W	SMARTSENSOR MATRIX



PHASE DIAGRAM
STERLING HIGHWAY/DEVIN DR



SIGNAL HEAD CONFIGURATIONS
STERLING HIGHWAY

6/20/2025
LOCAL
REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

SIGNAL SYSTEM OPERATIONS PLAN

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

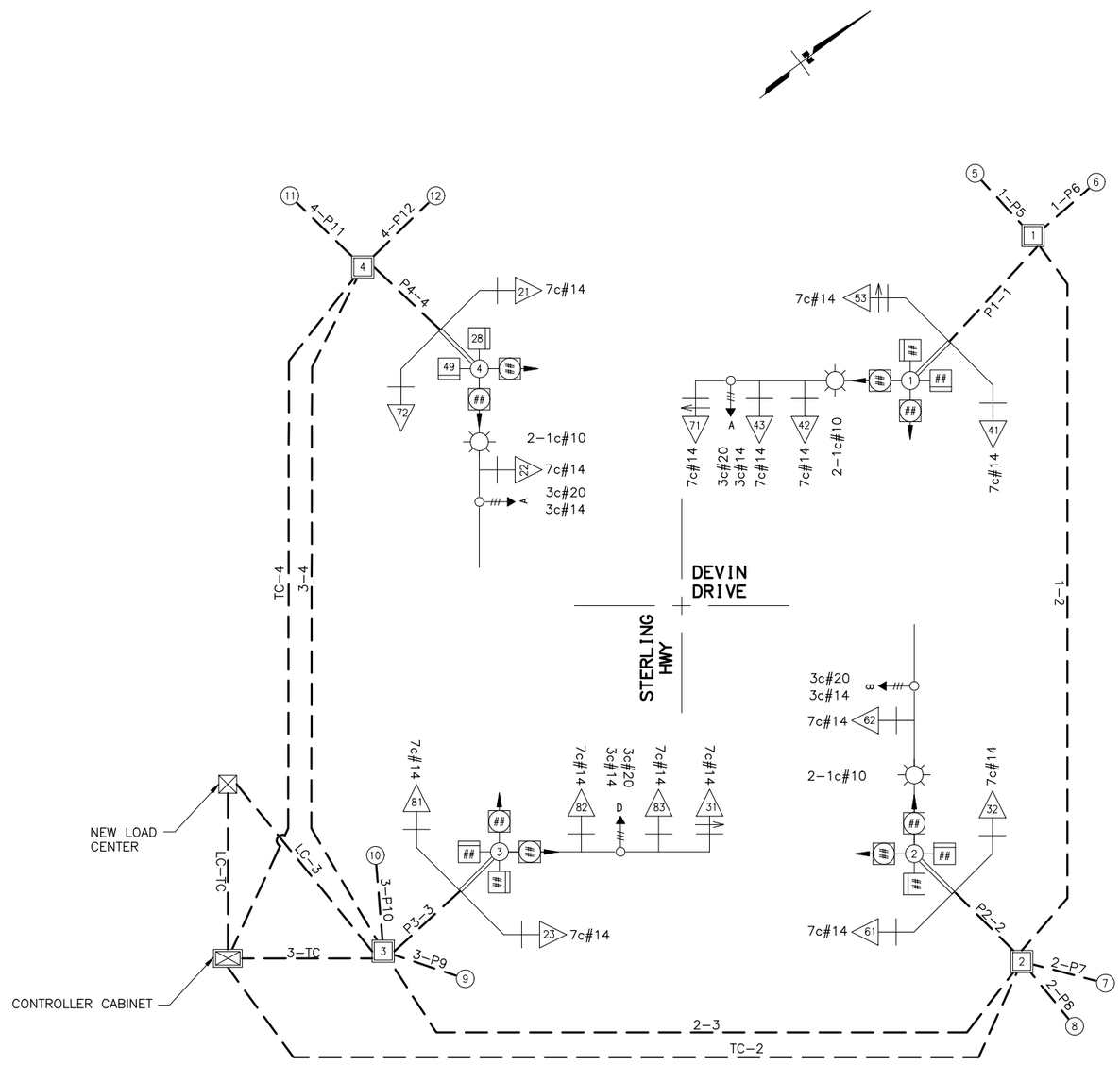
SCALE 1" = 20'

DATE TIME
6/20/2025 6:14 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL30-HL31_SGNL PLANS.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	HL32	HL32



6/20/2025
LOCAL
REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

WIRING DIAGRAM

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

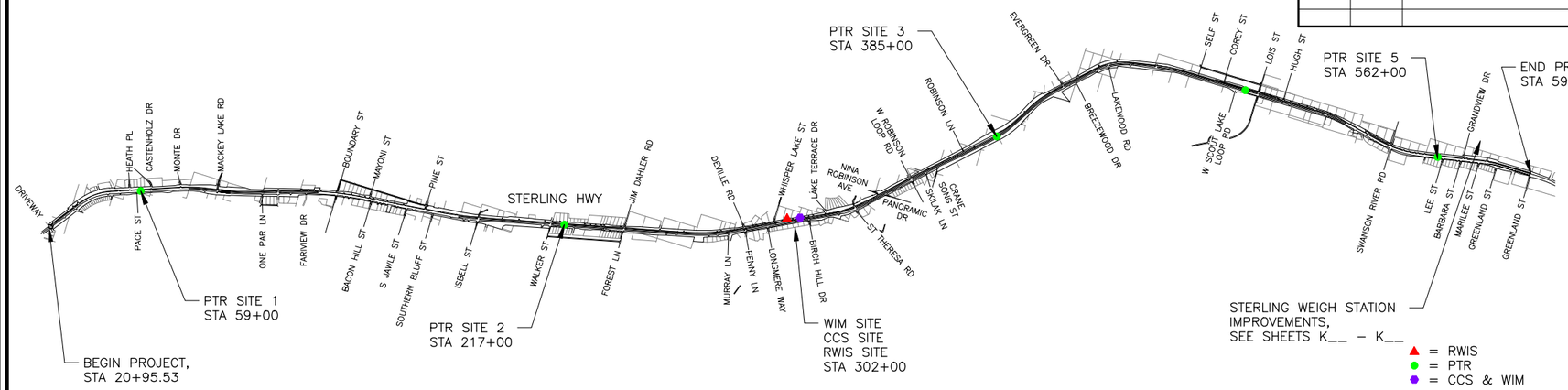
SCALE #" = #"

DATE 6/20/2025 TIME 6:14 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_HL32_SGNL WIRE DIAG.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K1	K26



DRAWING SHEET INDEX

SHEET NO.	DESCRIPTION
K1	ATR PTR LAYOUT PLAN, GENERAL NOTES, AND SCHEDULES
K2	LEGEND, ABBREVIATIONS
K3	JUNCTION BOX DETAILS
K4	WIM WEIGHT SENSOR DETAILS
K5	PTR CONDUIT DETAILS
K6	CBA1 CONTROLLER CABINET DETAILS
K7	CBA2 CONTROLLER CABINET DETAILS
K8–K10	COMBINED WIM & CCS SITE
K12–K16	PTR SITES 1–5
K24–K23	RWIS SITE 1
K_ – K_	STERLING WEIGH STATION IMPROVEMENTS (NOT INCLUDED IN LOCAL REVIEW)

CABINET SCHEDULE

RECORDER NUMBER	CABINET STATION	CABINET OFFSET	NUMBER OF LANES	SITE NUMBER	CABINET ASSEMBLY STYLE	LOAD CENTER	JUNCTION BOXES	INDUCTIVE LOOPS (QTY.)	PIEZO SENSORS (QTY.)

LABELS

ALL CABLES SHALL BE LABELED AT BOTH ENDS AND AT EVERY JUNCTION BOX THROUGH WHICH THE CABLES PASS, PER SPECIFICATION SECTION 660–3.05.13.

ALL WIRE PAIRS SHALL BE LABELED AT THE TERMINAL BLOCK AND AT ANY LOOSE ENDS.

THE FOLLOWING CONVENTIONS SHALL APPLY TO DESIGNATING AND LABELING CABLES AND WIRE PAIRS:

LANES: TRAFFIC LANES AND THEIR RESPECTIVE LOOPS AND SENSORS SHALL BE LABELED FROM THE OUTSIDE EDGE OF THE ROAD TOWARD THE CENTER AS FOLLOWS:

A	B	C	D		D	C	B	A

TERMINAL BLOCKS: WIRES FROM SENSORS PLACED IN LANES WHICH ARE CLOSEST TO THE CONTROL BOX SHALL BE PLACED AT THE LEFT OR AT THE TOP OF THE TERMINAL BLOCK, DEPENDING ON ORIENTATION.

WIRES FOR INDUCTIVE LOOPS, SENSORS AND RESERVES ARE LABELED AS FOLLOWS:

PnDLc

WHERE:

P IS THE PREFIX:
- V TRAFFIC VOLUME LOOP
- H VEHICLE CLASSIFICATION / SPEED LOOP
- GL AUTOMATIC VEHICLE CLASSIFICATION (AVC) SENSOR
- Ga AUTOMATIC VEHICLE CLASSIFICATION PIEZO

n NUMBER SUFFIX FOR MULTIPLE LOOPS IN THE SAME LANE

D DIRECTION (N, S, E, W, NE, SE, SW, NW)

L IS THE PREFIX FOR ROAD DESIGNATION
- L LANE*
- R RAMP**
- SR SPUR RAMP**
- LP LOOP**
- LR LOOP RAMP**
- * ROADS AND HIGHWAYS
- ** INTERCHANGES

c IS THE SUFFIX FOR LANE DESIGNATION (A, B, C, D)

RMC RIGID METAL CONDUIT, GALVANIZED

IMC INTERMEDIATE METAL CONDUIT

(TG) GROUND TEMPERATURE PROBE – SEE NOTE 5.

(TA) AMBIENT AIR TEMPERATURE SENSOR – SEE NOTE 5.

CR1000 DATALOGGER – SEE NOTE 5. ADOT WILL INSTALL.

⟨£⟩ CONDUIT REFERENCE NUMBER

[#] NOTE REFERENCE NUMBER

INDUCTIVE LOOPS

ALL INDUCTIVE LOOPS SHALL BE WOUND IN THE SAME DIRECTION WITH THE STARTING LEAD MARKED "S" PER SECTION 660–3.05.13.

LEAD–IN WIRES FOR EACH LOOP SHALL BE IN SEPARATE CONDUITS TO THE FIRST JUNCTION BOX. THESE CONDUITS SHALL BE SEPARATED FROM OTHER LOOPS BY A MINIMUM OF 12 INCHES.

INDUCTIVE LOOPS SHALL BE INSTALLED IMMEDIATELY PRIOR TO PAVING THIS SECTION OF ROADWAY. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50 FEET OF THE LOOPS.

GENERAL NOTES

1. INSTALLATION OF EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE, ALASKA DOT&PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND LOCAL AMENDMENTS.
2. EVERY EFFORT HAS BEEN MADE TO MAKE THE INFORMATION CONTAINED IN THESE DOCUMENTS COMPLETE AND ACCURATE. HOWEVER, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
3. PVC FROM JUNCTION BOXES TO TRAFFIC LOOPS IS NOT ALLOWED. USE ONLY RMC OR IMC.
4. ALL PVC CONDUIT AND FITTINGS SHALL BE 1 INCH SCHEDULE 80.
5. AMBIENT AIR SENSOR AND PAVEMENT SENSOR SUPPLIED BY STATE OF ALASKA – DATA COLLECTION SECTION – CONTACT JOE GIBBONS, MANAGER (907) 269–0884.
6. SEE SHEET K3 FOR JUNCTION BOX DETAILS.

REFERENCE SPECIFICATIONS

ALL WIRING SHALL BE CONSTRUCTED PER SPECIFICATION SECTION 660 SIGNALS AND LIGHTING, EXCEPT WHERE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS. ALL CONSTRUCTION SHALL CONFORM TO SPECIFICATION SECTIONS 660–3.03 CONDUIT, 660–3.04 JUNCTION BOXES, 660–3.05 WIRING, 660–3.06 BONDING AND GROUNDING, AND 660–3.01.7 FIELD TESTS, EXCEPT AS MODIFIED BY SECTION 669 AUTOMATED TRAFFIC RECORDERS.

6/20/2025
LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

ATR PTR LAYOUT PLAN, GENERAL NOTES, AND SCHEDULES

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #'

DATE 6/20/2025 TIME 6:16 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K1_LEGEND-NOTES.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K2	K26

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:16 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\0013O_K1_LEGEND-NOTES.DWG

ABBREVIATIONS

ATR – AUTOMATED TRAFFIC RECORDER
AVC – AUTOMATED VEHICLE CLASSIFIER
DSL – DIGITAL SUBSCRIBER LINE
HDS – HIGHWAY DATA SECTION
IMC – INTERMEDIATE METAL CONDUIT
NID – NETWORK INTERFACE DEVICE
PVC – POLYVINYL CHLORIDE CONDUIT
RMC – RIGID METAL CONDUIT
SHDR – SHOULDER
TWLTL – TWO–WAY LEFT TURN LANE
WIM – WEIGH IN MOTION

ATR LEGEND

ATR CONDUIT — PVC / RMC
ATR LOAD CENTER
ATR CABINET
ATR JBOX TYPE 1A
ATR JBOX TYPE 2
ATR LOOP SENSOR
WIM WEIGHT SENSOR
WIM LOOP SENSOR

ABBREVIATIONS

CKB	CIRCUIT BREAKER
SIG	SERVICE TO CONTROLLER
INTX	INTERSECTION
LTG	LIGHTING
PRE 2	PREEMPTION #
PRE CON 2	PREEMPTION CONTROLLER #
LC	LOAD CENTER
TC	TRAFFIC CONTROLLER
P1	TRAFFIC SIGNAL POLE #
PEC	PHOTOELECTRIC CELL
YAGI	DIRECTIONAL ANTENNA
OMNI	OMNI DIRECTIONAL ANTENNA
HEAD	VEHICULAR SIGNAL HEAD
PED B 28	PEDESTRIAN PUSH BUTTON #
PEDI	PEDESTRIAN SIGNAL HEAD
RMC	RIGID METAL CONDUIT
IMC	INTERMEDIATE METAL CONDUIT
PE	POLYETHYLENE CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
PVC	POLYVINYL CHLORIDE CONDUIT
INTX L	INTERSECTION LIGHTING
IMSA	INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION
NB	NORTH BOUND
EB	EAST BOUND
SB	SOUTH BOUND
WB	WEST BOUND
TYP	TYPICAL
NID	NETWORK INTERFACE DEVICE

RWIS LEGEND

EXISTING	PROPOSED	
		LOAD CENTER
		TRAFFIC RECORDER CABINET
##	##	TYPE IA JUNCTION BOX
##	##	TYPE II JUNCTION BOX
##	##	LOOP DETECTOR
		CONDUIT
	TG	GROUND TEMPERATURE PROBE (TG) AND SURFACE TEMP PROBE (TS)
	TA	AMBIENT AIR PROBE (TA)
		PIEZO SENSOR

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

LEGEND, ABBREVIATIONS

NO.	DATE	REVISION

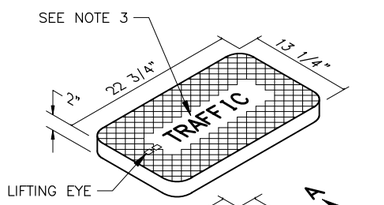
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K3	K26

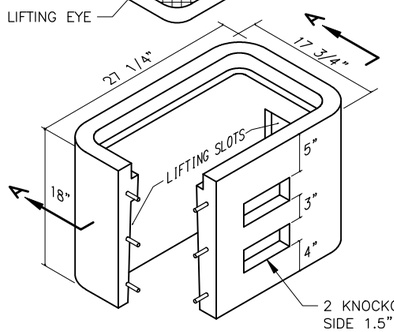
DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

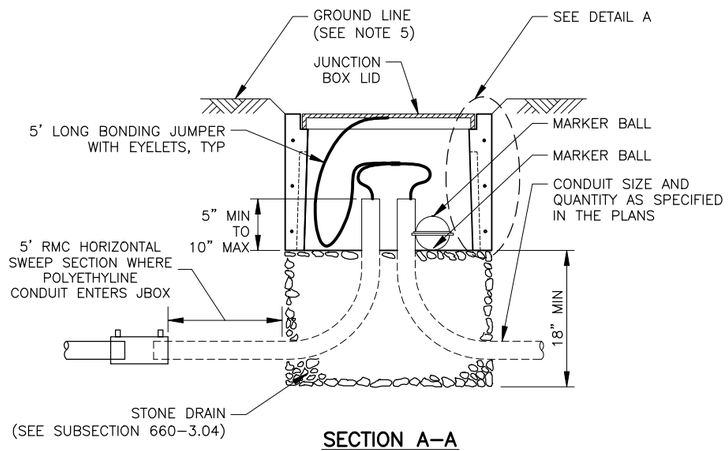
SCALE #" = #"

DATE 6/20/2025 TIME 6:16 PM

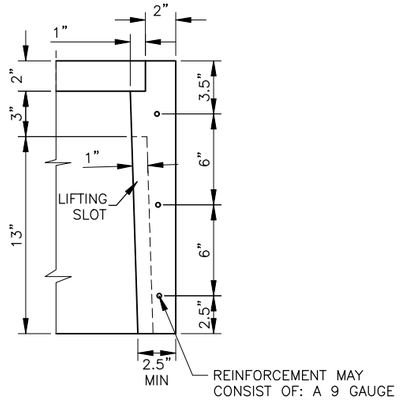
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K3_DETAILS.DWG







SECTION A–A
NTS

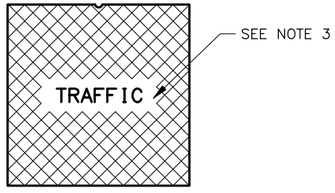


DETAIL A

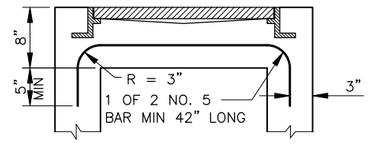
TYPE IA JUNCTION BOX

NOTES:

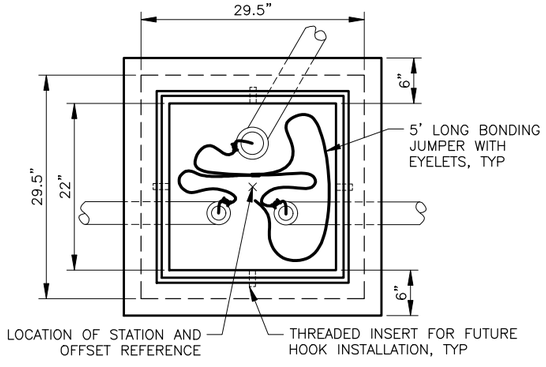
1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660–3.04.
2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. FURNISH LIDS WITH THE WORD "TRAFFIC" INSCRIBED INTO THEM.
4. UNDER JUNCTION BOXES, INSTALL STONE DRAINS THAT CONSIST OF POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703–2.10.
5. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
   - 1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
   - 1/4" IN PEDESTRIAN FACILITIES
   - 2" IN ALL OTHER AREAS
6. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660–3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH BRASS OR STAINLESS STEEL HARDWARE.
7. INSTALL LOOP DETECTOR TAILS THROUGH ONE OF THE KNOCKOUTS OF TYPE IA JUNCTION BOXES. AFTER SETTING THE BOXES TO GRADE, INSTALL GROUT IN THE GAPS THAT REMAIN IN THE KNOCKOUT.
8. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
9. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660–3.04.
10. PRIOR TO INSTALLATION MARK ALL JUNCTION BOX LOCATIONS WITH A WIRE STAFF VINYL FLAG. THE FLAG SHALL BE RED IN COLOR AND MINIMUM 4–INCHES TALL BY 5–INCHES WIDE. THE WIRE STAFF SHALL BE 21–INCHES IN LENGTH AND CONSTRUCTED OF MINIMUM 15.5 GAUGE STEEL.
11. WHERE MODIFIED TYPE II JUNCTION BOXES ARE REQUIRED FOR DETECTOR LOOP TAIL INSTALLATIONS, ADD ONE(1) ADDITIONAL 5" DEEP X 3" HIGH X 18" WIDE KNOCKOUT 12" BELOW TOP OF JUNCTION BOX.



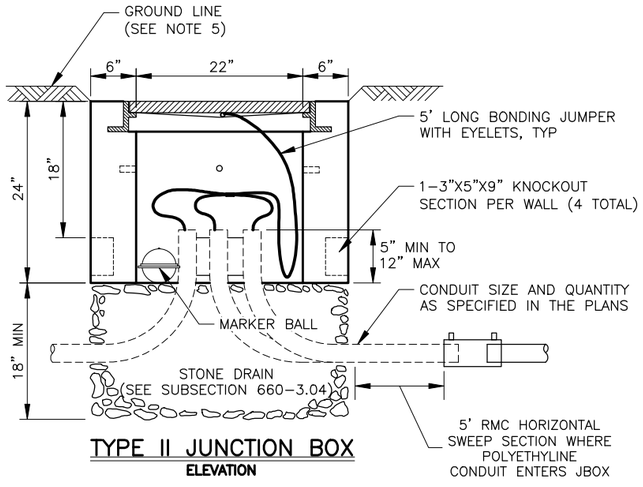
LID FOR TYPE II



SECTION B–B



PLAN



TYPE II JUNCTION BOX
ELEVATION

6/20/2025
LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

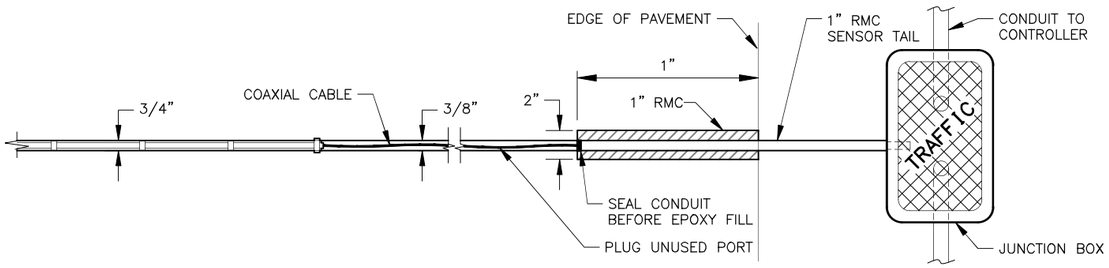
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

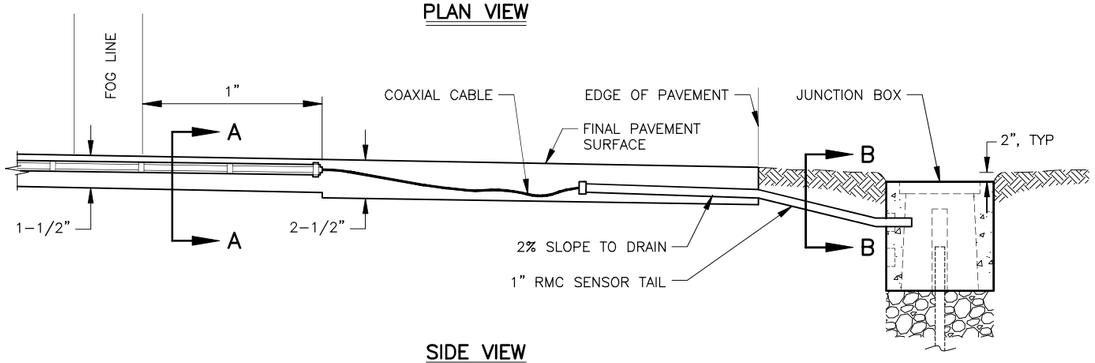
JUNCTION BOX DETAILS

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K4	K26

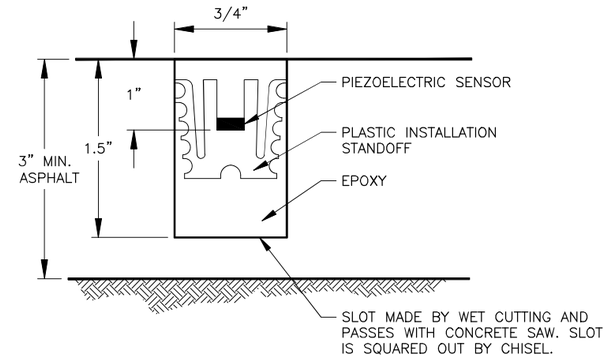


PLAN VIEW

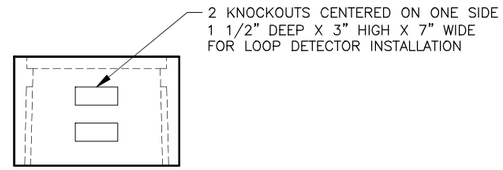


SIDE VIEW

SHOULDER SECTION

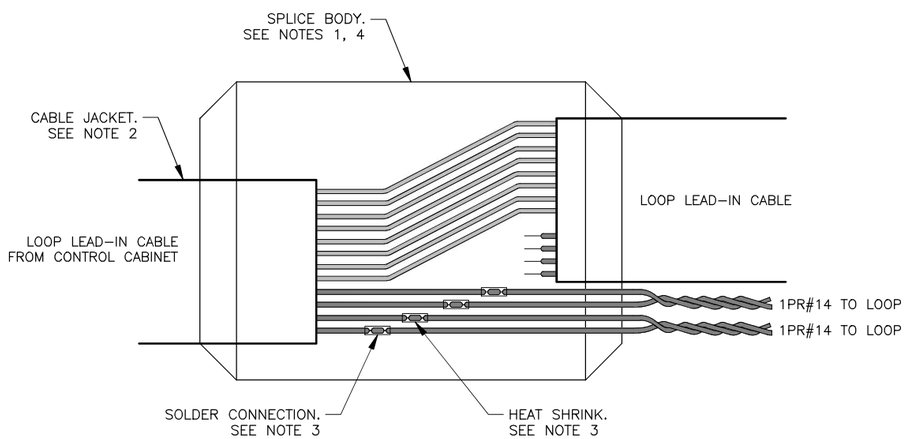


SECTION A–A



SECTION B–B

TYPICAL SENSOR DETAILS



LOOP LEAD–IN SPLICE DETAIL

NOTES

1. TERMINATE ALL SPARES WITHIN THE SPLICE BODY.
2. SPLICE BODY TO ENCLOSE ALL CABLE JACKETS.
3. STAGGER SPLICE POINTS. SOLDER CONNECTIONS. ENCLOSE EXPOSED CONDUCTORS IN ADHESIVE WALL HEAT SHRINK TUBING.
4. USE A NON–REENTERABLE, WET LOCATION, COMMERCIAL SPLICE KIT 3M TYPE 82–F1 OR EQUIVALENT AS APPROVED BY THE ENGINEER.
5. SLOT FOR IN–PAVEMENT SENSORS SHALL BE PARALLEL TO THE DIRECTION OF TRAVELED WAY.
6. INSTALL NEW AMBIENT TEMPERATURE PROBE AND ASSOCIATED HARDWARE AS SHOWN.

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

WIM WEIGHT SENSOR DETAILS

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:16 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K4-K5_DETAILS.DWG

NO.	DATE	REVISION

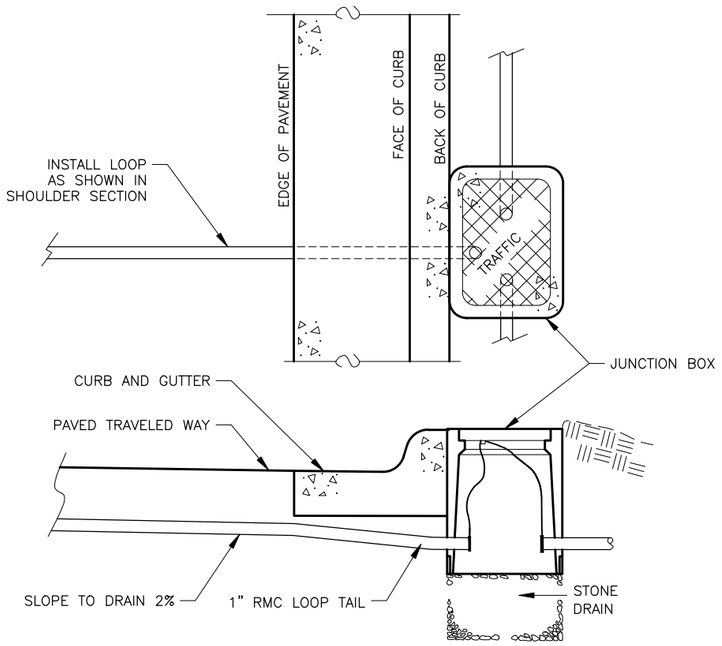
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K5	K26

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

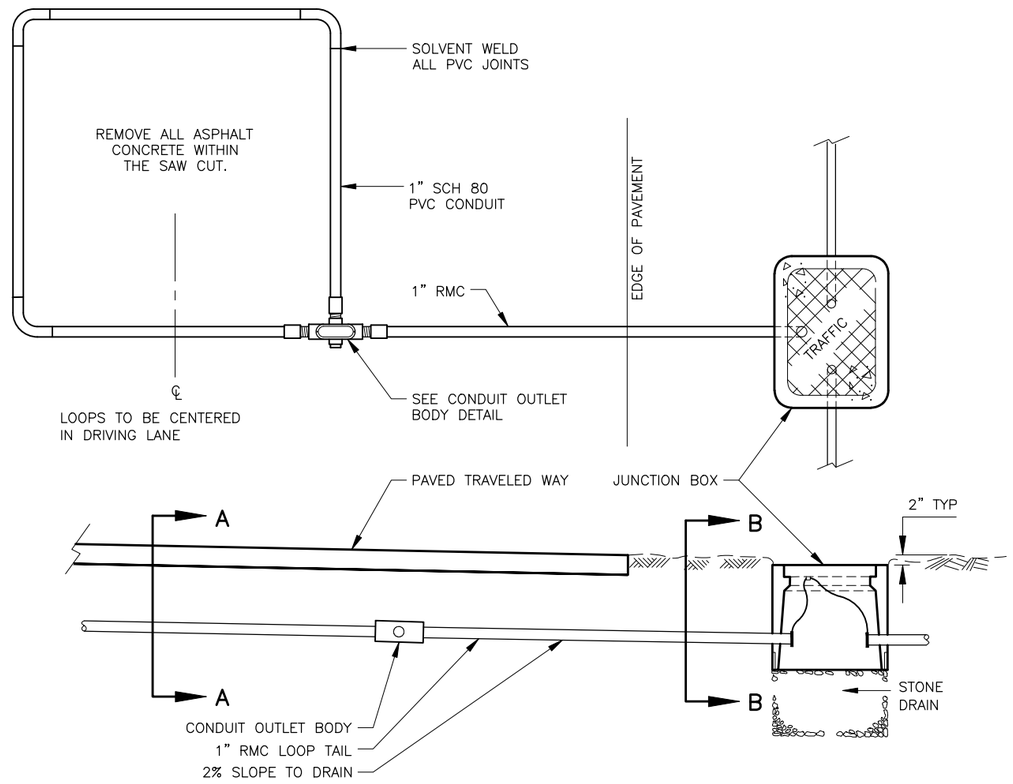
SCALE #" = #"

DATE 6/20/2025 TIME 6:16 PM

DRAWING LOCATION
Z:\PROJECTS\0000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K4-K5_DETAILS.DWG



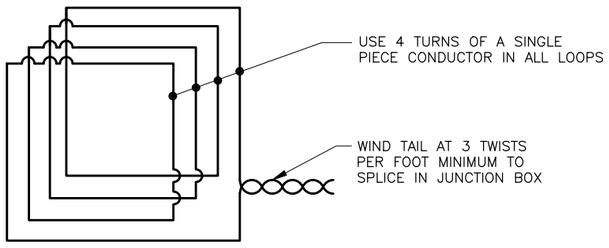
CURB SECTION



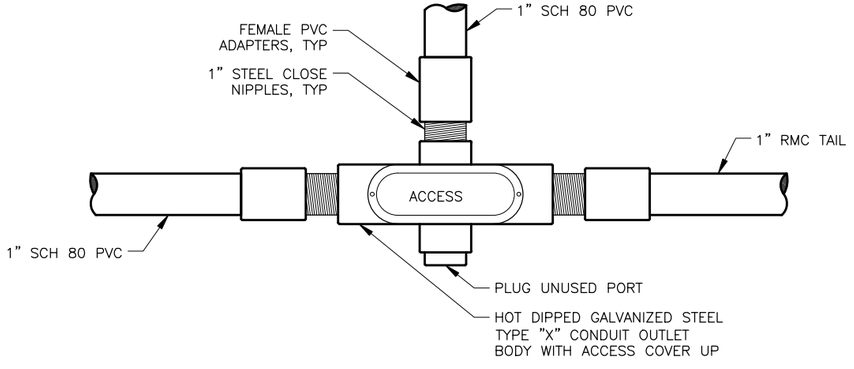
SHOULDER SECTION

NOTES

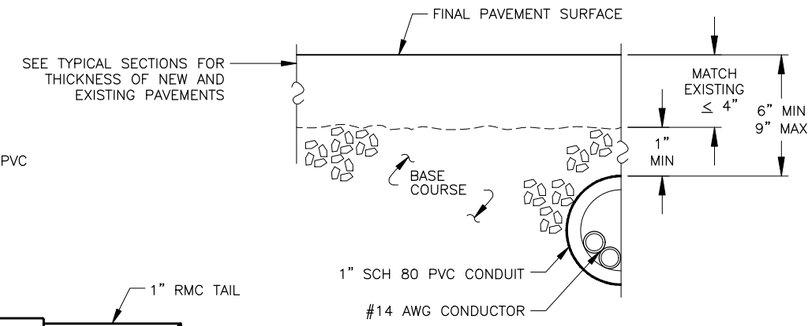
1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN ONE INCH SCHEDULE 80 PVC CONDUIT. BUILD ALL LOOPS 6 FEET SQUARE, UNLESS OTHERWISE NOTED, BY SOLVENT WELDING ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF CONDUCTOR IN THE LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 3 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS BEFORE OVERLAYING THE EXISTING PAVEMENT OR PAVING THE NEW ROADWAY.
4. INSTALL THE LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS. IF THE CONTRACTOR CANNOT INSTALL THE LOOP TO DRAIN INTO THE J-BOX, DRILL FIVE 1/4" WEEP HOLES ON 1 FOOT ON CENTERS IN THE UNDERSIDE OF THE CONDUIT AT THE LOW SPOT.
5. CONTRACTOR MAY INSTALL A LOOP TAILS IMMEDIATELY ADJACENT TO A LOOP AND OTHER LOOP TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
6. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY BEFORE SEALING THE LOOPS UNDER THE FINAL LIFT OF ASPHALT. PROVIDE THE ENGINEER A WRITTEN RECORD OF FIELD TESTING TO INCLUDE: CONTINUITY, INSULATION RESISTANCE AND INDUCTANCE TEST AS REQUIRED IN SECTION 660-3.01(7) OF THE STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.
7. ENSURE DEPTH OF BASE COURSE, GRADING D-1, AT LOOP LOCATIONS IS A MINIMUM OF 4 INCHES. EXCAVATION AND INSTALLATION OF ADDITIONAL BASE COURSE, GRADING D-1 NECESSARY TO MEET THIS REQUIREMENT IN EXISTING ROAD SECTIONS SHALL BE SUBSIDIARY TO RESPECTIVE PAY ITEMS.



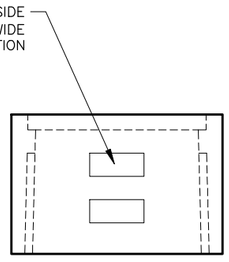
LOOP WIRING DETAIL



CONDUIT OUTLET BODY DETAIL



SECTION A-A



SECTION B-B

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

PTR CONDUIT DETAILS

NO.	DATE	REVISION

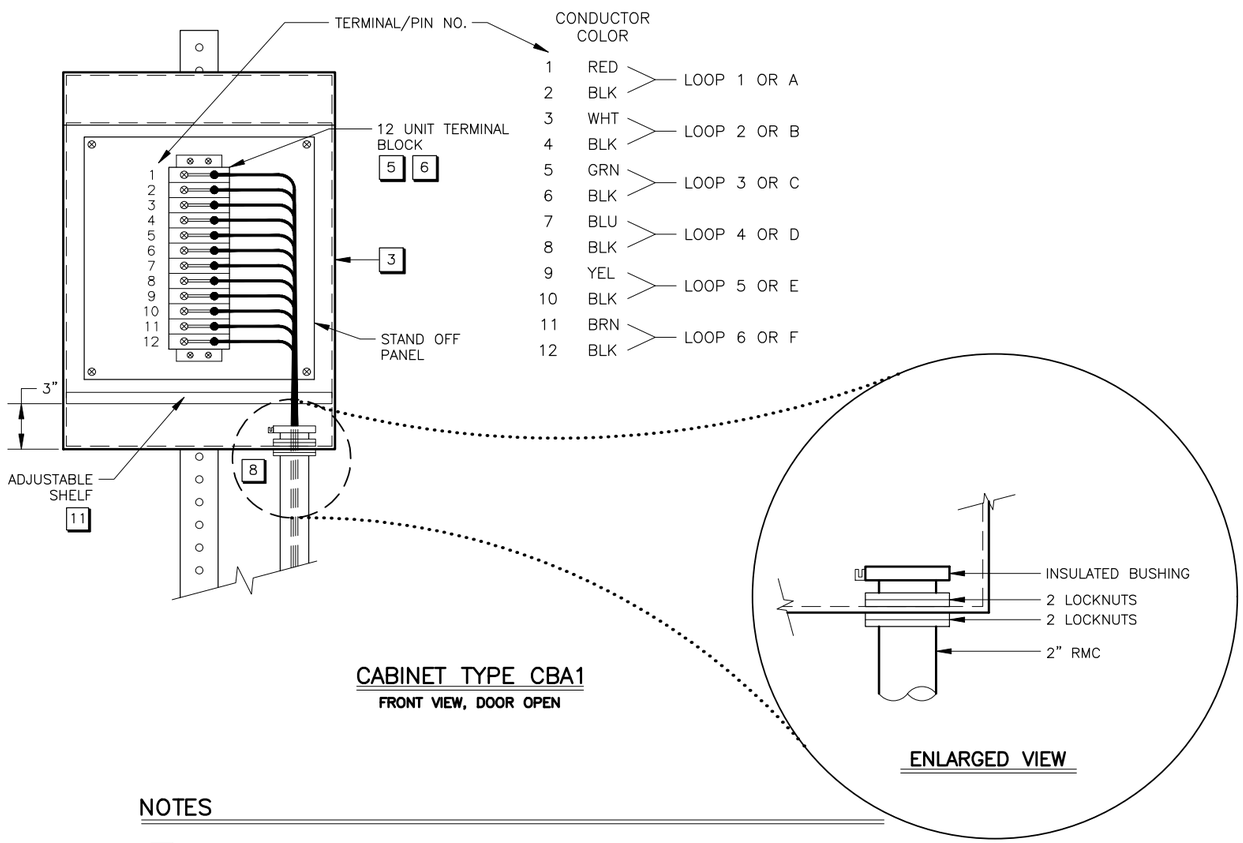
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K6	K26

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

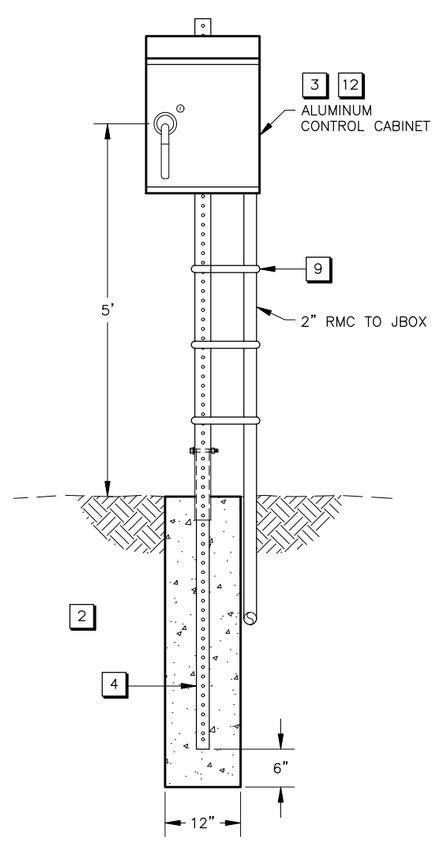
SCALE #" = #"

DATE 6/20/2025 TIME 6:17 PM

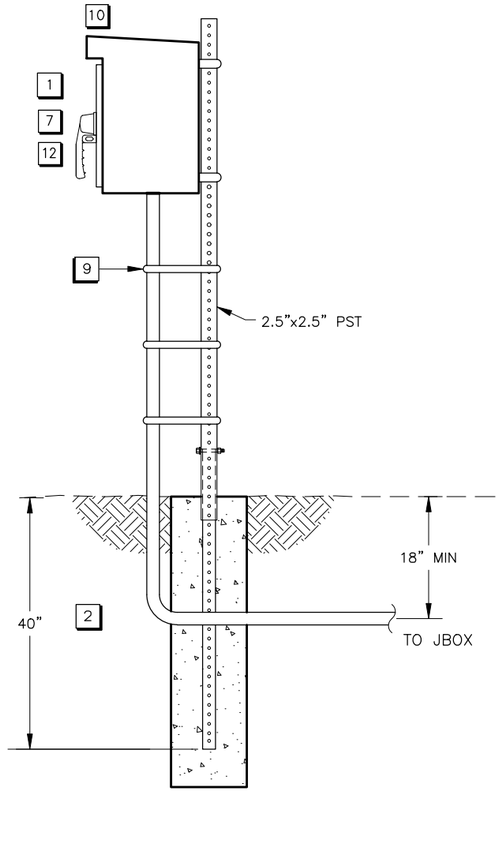
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K6-K7_DETAILS.DWG



CABINET TYPE CBA1
FRONT VIEW, DOOR OPEN



FRONT ELEVATION



SIDE ELEVATION

CABINET TYPE CBA1 DETAIL

NOTES

1. CABINET DOOR TO OPEN AWAY FROM THE ROADWAY. A DOOR STAY SHALL BE INCLUDED AT THE BOTTOM OF THE DOOR WITH THREE POSITIONS: 90, 120, AND 180 DEGREES. DOOR LATCHING MECHANISM IS A SINGLE POINT POWERGLIDE PADLOCKING HANDLE SYSTEM WHICH SECURES THE DOOR IN THE MIDDLE.
2. INSTALL FOUNDATION IN SELECT MATERIAL, TYPE A. THE CONTRACTOR SHALL EXCAVATE AND BACKFILL WITH GRAVEL 2 FEET BELOW AND SURROUNDING THE FOUNDATION.
3. CONTRACTOR SHALL INSTALL SINGLE–DOOR, LOCKABLE, CONTINUOUS HINGE ENCLOSURE (WITH CLAMPS), WITH TYPE 3R OR 4X ENVIRONMENTAL RATING. NVENT–HOFMAN CATALOG NUMBER A30H2408ALLP (30" X 24" X 8"), OR APPROVED EQUAL, COMPLETE WITH MOUNTING PANEL, DIN RAIL, AND TERMINAL BLOCKS AS REQ'D.
4. SLEEVE TYPE CONCRETE FOUNDATION. SEE STANDARD DRAWING S–30.05, PERFORATED STEEL TUBE (PST) POST.
5. TERMINATE ALL CONDUCTORS TO TERMINAL BLOCK. TERMINATE ALL CONDUCTORS WITH CRIMPED AND SOLDERED SPADE TYPE TERMINALS.
6. TY–RAPS TO PROVIDE STRAIN RELIEF FOR INCOMING CONDUCTORS.
7. LOCKS SHALL BE CORBIN NO. 2, AND SHALL BE COMPATIBLE WITH EXISTING LOCKS.
8. INSTALL CONDUIT ENTRIES FOR ABOVE–GROUND ENCLOSURE THROUGH THE BOTTOM OF THE ENCLOSURE. NO CONDUIT RUNS SHALL BE CUT THROUGH THE SIDES OR TOP OF ABOVE–GROUND ENCLOSURE.
9. CONTRACTOR SHALL SECURE AND SUPPORT RMC PER NEC 344.30.
10. CABINET SHALL HAVE A SLOPED TOP AND DRIP SHIELD.
11. CABINET INTERIOR HAS FOUR (4) INSTRUCT CHANNELS FOR INSTALLING ADJUSTABLE SHELF.
12. PROVIDE GROUNDING POINTS ON CABINET BODY AND DOOR.

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

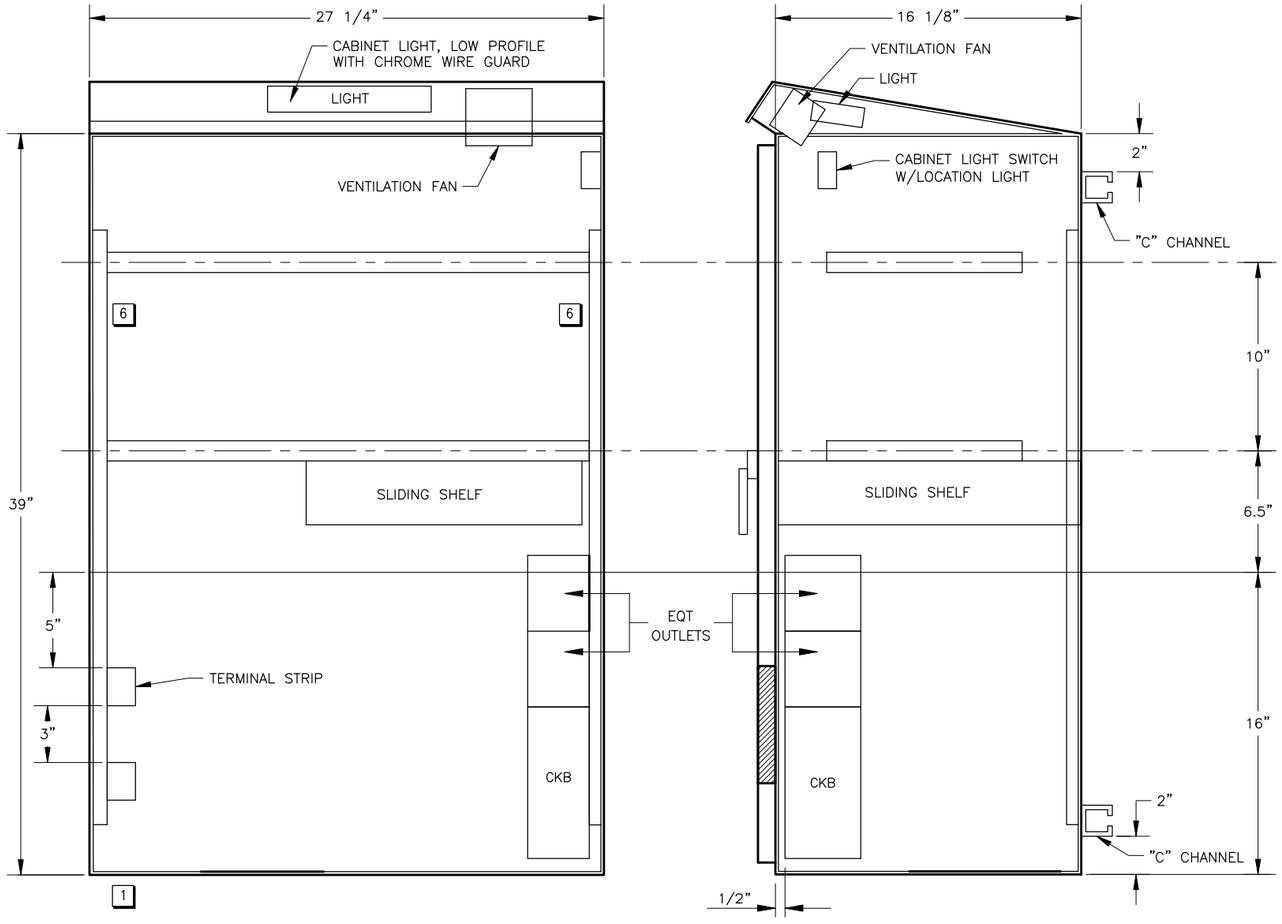
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

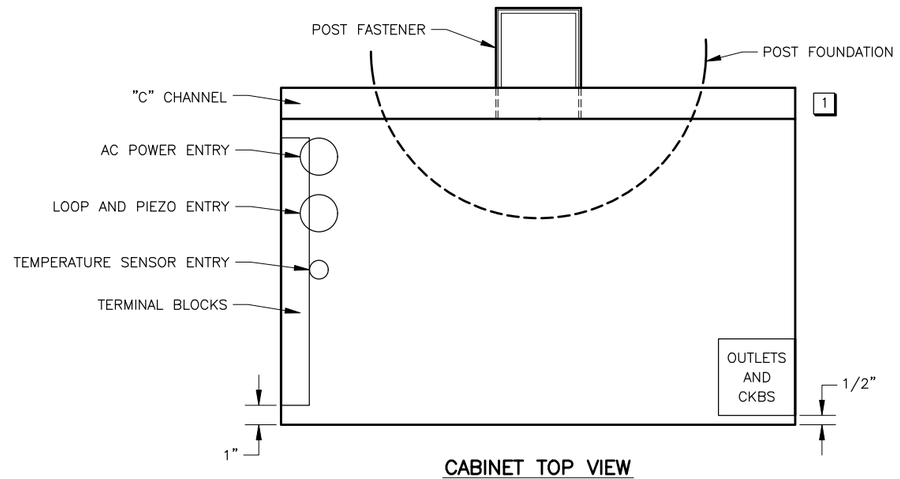
CBA1 CONTROLLER CABINET DETAILS

NO.	DATE	REVISION

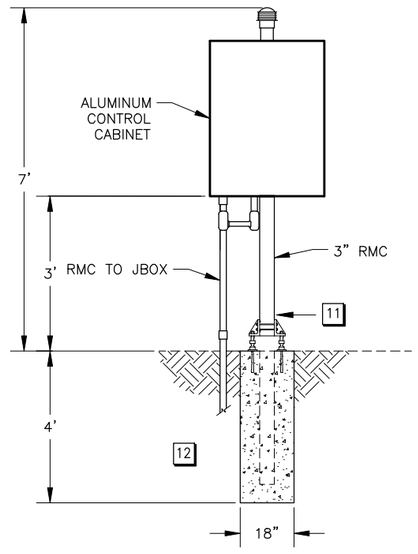
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K7	K26



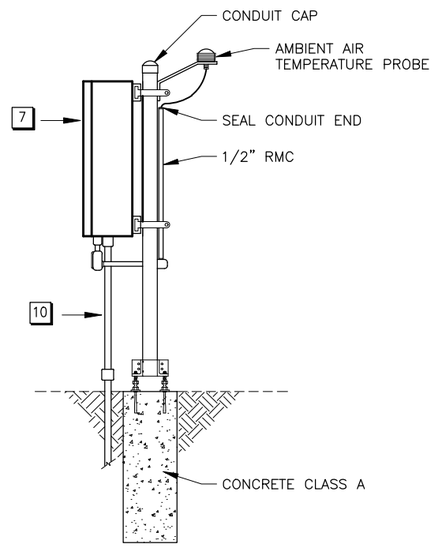
CBA2 CABINET DETAIL



CABINET TOP VIEW



FRONT ELEVATION



SIDE ELEVATION

CABINET TYPE CBA2

NOTES

1. USE CONDUIT HUBS IN BOTTOM OF CABINET. USE MYERS HUBS WITH NEOPRENE SEAL AND INSULATED THROAT FOR NON–POWER CONDUITS WITH DETECTOR LEAD–IN CABLES AND TELEPHONE SERVICE. USE MYERS HUBS FOR SERVICE ENTRANCE CONDUIT AND CONNECT FLEXIBLE METAL CONDUIT TO CB PANEL INSIDE CABINET.
2. PROVIDE VOLTAGE SURGE PROTECTION IN CB PANEL.
3. ALL 120V WIRING, INCLUDING THAT FOR PANELBOARD, LIGHT, FAN, AND THERMOSTATS TO BE IN FLEXIBLE METAL CONDUIT WITH EXCEPTION OF CORD CONNECTED ELECTRONIC EQUIPMENT.
4. CABINET TO BE CERTIFIED BY NATIONALLY RECOGNIZED INDEPENDENT THIRD PARTY TESTING AGENCY (UL, CSA, FM, ETC.).
5. ALL EQUIPMENT INSIDE CABINET TO BE FASTENED TO RAILS WITH NO SCREW PENETRATIONS OF THE CABINET SURFACE.
6. SIDE RAILS TO BE INSTALLED TO PERMIT HORIZONTAL ADJUSTMENT OF VERTICAL RAILS.
7. CONTROLLER CABINET DOORS TO OPEN AWAY FROM ROADWAY.
8. USE FACTORY 90° ELBOWS TO/FROM J–BOXES ON ALL CONDUITS LARGER THAN 1 INCH.
9. ALL CONDUIT SHALL BE RMC UNLESS NOTED OTHERWISE. SEE SCHEDULE FOR SIZE.
10. NOT ALL CONDUITS SHOWN IN DETAIL. ADD OTHERS AS REQUIRED.
11. PROVIDE FLANGE, FRANGIBLE COUPLING AND FOUNDATION PER DOT STANDARD DETAIL S–31.01.
12. INSTALL FOUNDATION IN SELECT MATERIAL, TYPE A. THE CONTRACTOR SHALL EXCAVATE AND BACKFILL WITH GRAVEL 2 FEET BELOW AND SURROUNDING THE FOUNDATION.
13. LOCKS SHALL BE CORBIN NO. 2, AND SHALL BE COMPATIBLE WITH EXISTING LOCKS.

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

CBA2 CONTROLLER CABINET DETAILS

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:17 PM

DRAWING LOCATION
Z:\PROJECTS\0000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K6–K7_DETAILS.DWG

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #'

DATE 6/20/2025 TIME 6:19 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K8_ATR PLANS.DWG

0 10 20
HORZ SCALE IN FEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K8	K26

NOTE TO REVIEWER:
CCS SITE WILL SHARE CBA2 CABINET W/ WIM SITE

CONDUIT SCHEDULE

TAG #	CONDUIT SIZE (RMC)	NEW/ EXISTING	FROM	TO	NEW/ EXISTING	
					TYPEN	NUMBER
1						

NOTES

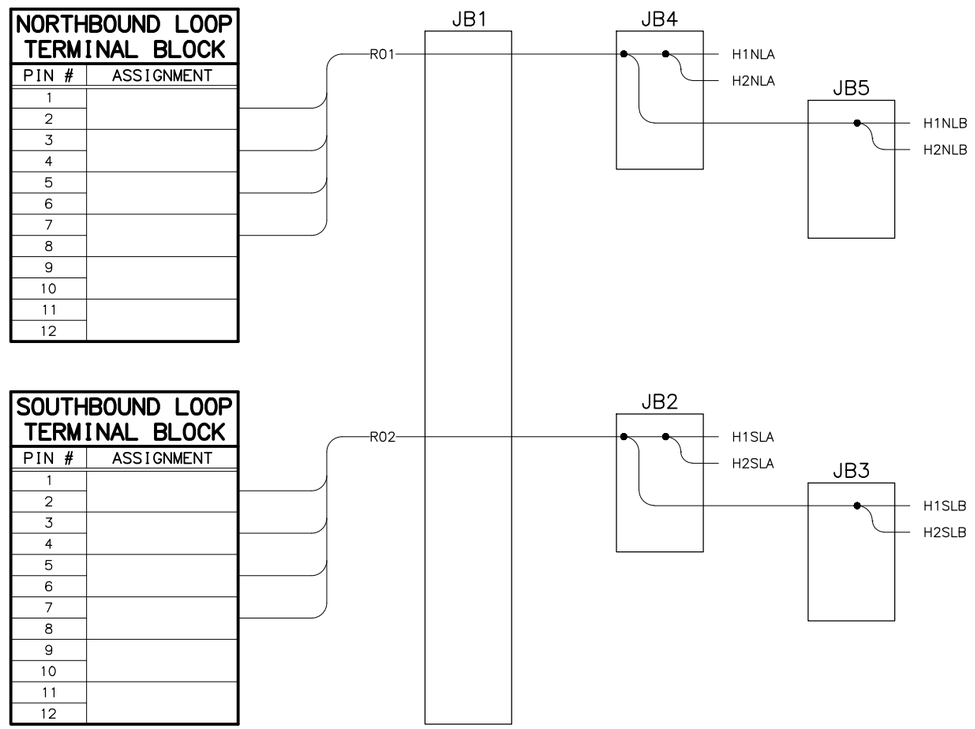
1. THIS IS SAMPLE TEXT TO BE USED FOR SHEET NOTES.
2. FORMAT OTHER NOTES TO MATCH.
3. NO UNDERLINE OF TITLE REQUIRED, BUT IF USED, USE CONSISTENTLY.

NORTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

SOUTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	



ATR SITE NAME

STA 000+00

JUNCTION BOX SCHEDULE

JBOX	STATION	OFFSET	TYPE
1			

LOOP SCHEDULE

LOOP	STATION	OFFSET
1		

6/20/2025
LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

COMBINED WIM & CCS SITE

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K9	K26

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:19 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K9-K10_WIMS DETAILS.DWG

6/20/2025
LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

WIM DETAILS

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K10	K26

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:19 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K9-K10_WIMS DETAILS.DWG

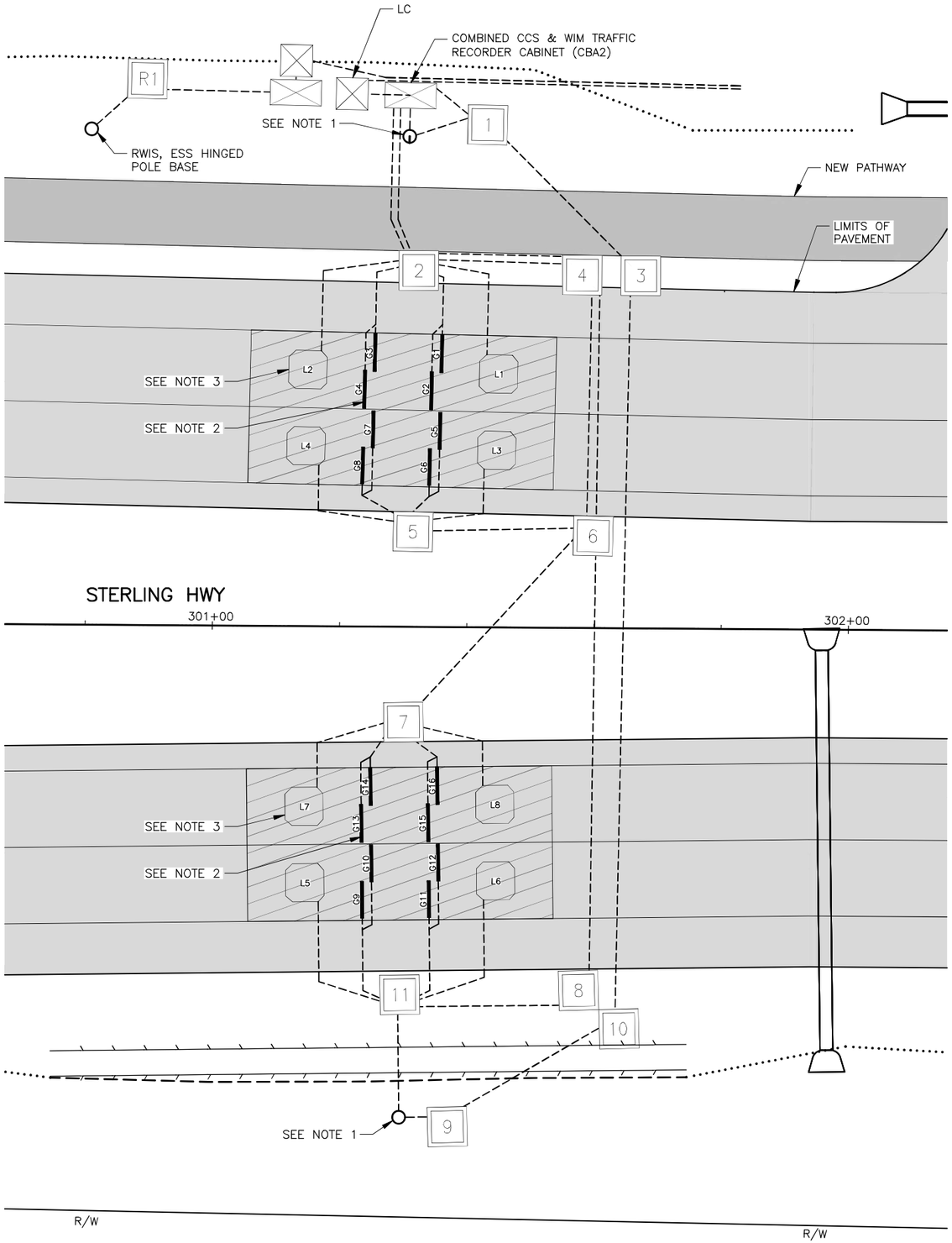
6/20/2025
LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

WIM DETAILS



WIM SITE

STA 301+00

0 10 20

HORZ SCALE IN FEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K11	K26

NOTE

1. TRAFFIC ESS HINGED POLES RECEIVE SIGNAL WIRING FROM COMBINED CCS & WIM CBA2 CABINET. ESS HINGED POLE IS FIXED BASE. ESS HINGED POLE INTENDED TO TIP DOWN TALL SIDE TO EAST PARALLEL W/ ROADWAY. POLE-MOUNT VIDEO CAMERA CLASSIFICATION SYSTEM CAPABLE OF FHWA 13 BIN CLASSIFICATION ITHEA OR APPROVED EQUAL.
2. EPOXY CAPACITANCE BASED WEIGHT SENSORS G1 THRU G16 IN 2" HMA OVER 12" ATB MODIFIED STRUCTURAL SECTION FROM EDGE OF TRAVELED WAY TO EDGE OF TRAVELLED WAY FROM STA 301+00 TO 301+50.
3. INDUCTANCE LOOPS EPOXIED IN THICKENED STRUCTURAL SECTION INTENDED FOR WEIGHT SENSOR ACTUATION ALONGSIDE TRAFFIC ESS HINGED POLE CAMERAS.

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

WIM PLAN

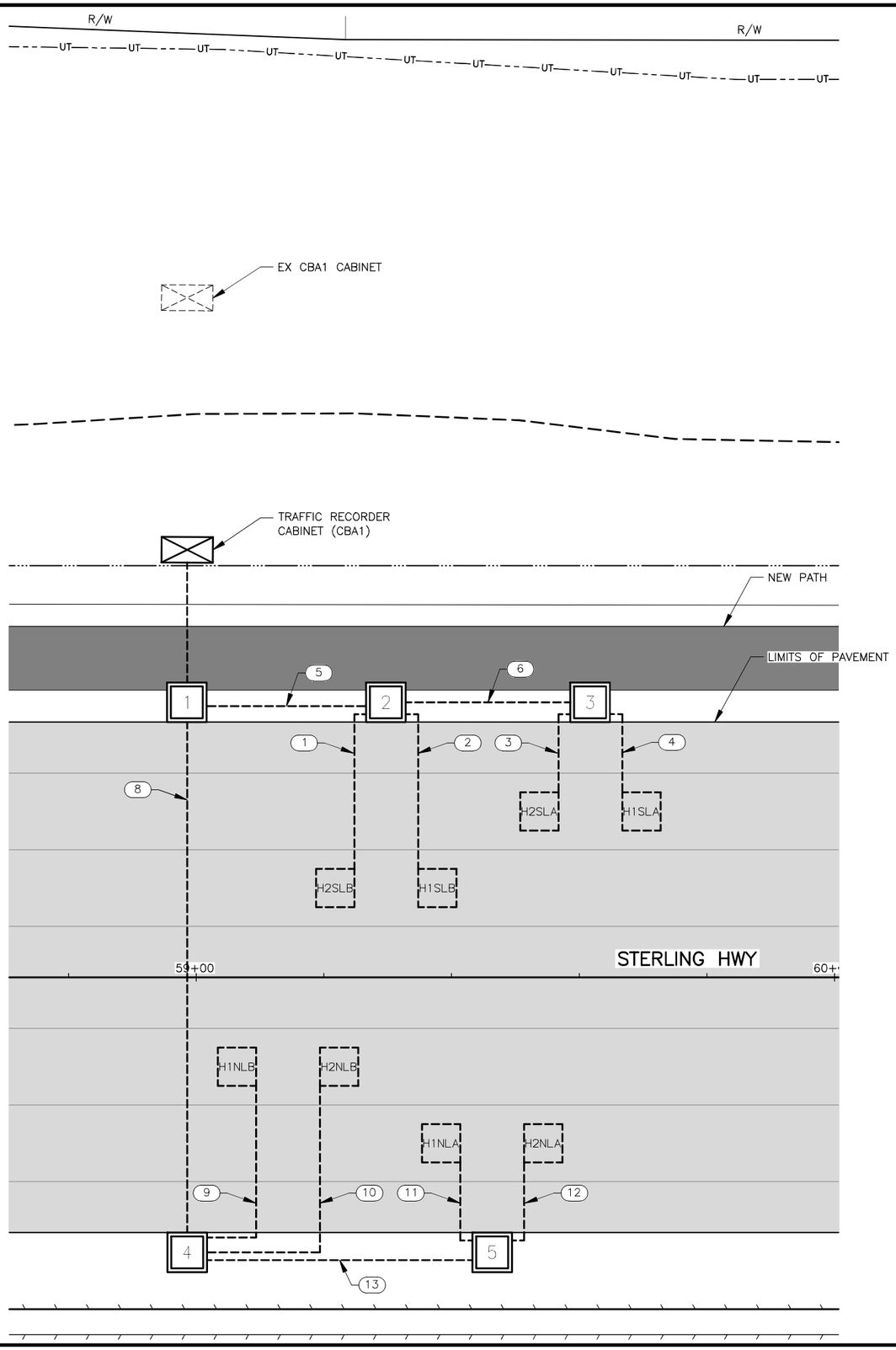
DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = 1'

DATE 6/20/2025 TIME 6:19 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K11_WIMS PLAN.DWG

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE #" = #'
DATE 6/20/2025 TIME 6:20 PM
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\0013O_KP12_PTR PLAN.DWG



0 10 20
HORZ SCALE IN FEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K12	K26

CONDUIT SCHEDULE

TAG #	CONDUIT SIZE (RMC)	NEW/ EXISTING	FROM	TO	NEW/ EXISTING	
					TYPEN	NUMBER
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

JUNCTION BOX SCHEDULE

JBOX	STATION	OFFSET	TYPE
1	00+00.0	00.0' LT	2
2			2
3			2
4			2
5			2

LOOP SCHEDULE

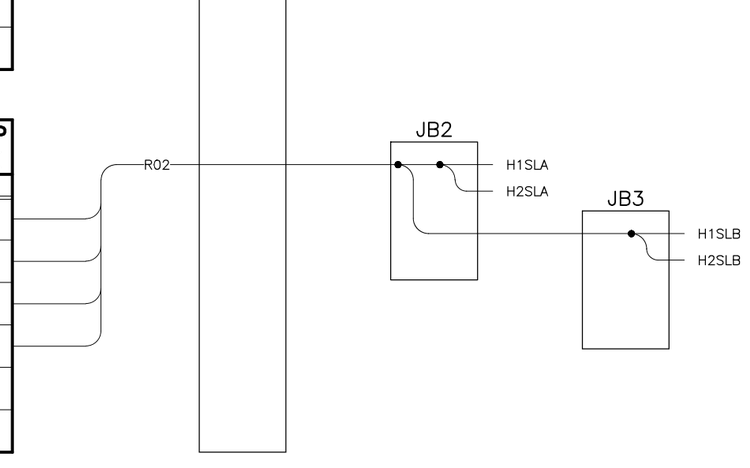
LOOP	STATION	OFFSET
H1NLA	00+00.0	00.0' LT
H2NLA		
H1NLB		
H2NLB		
H2SLA		
H1SLA		
H2SLB		
H1SLB		

NORTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

SOUTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	



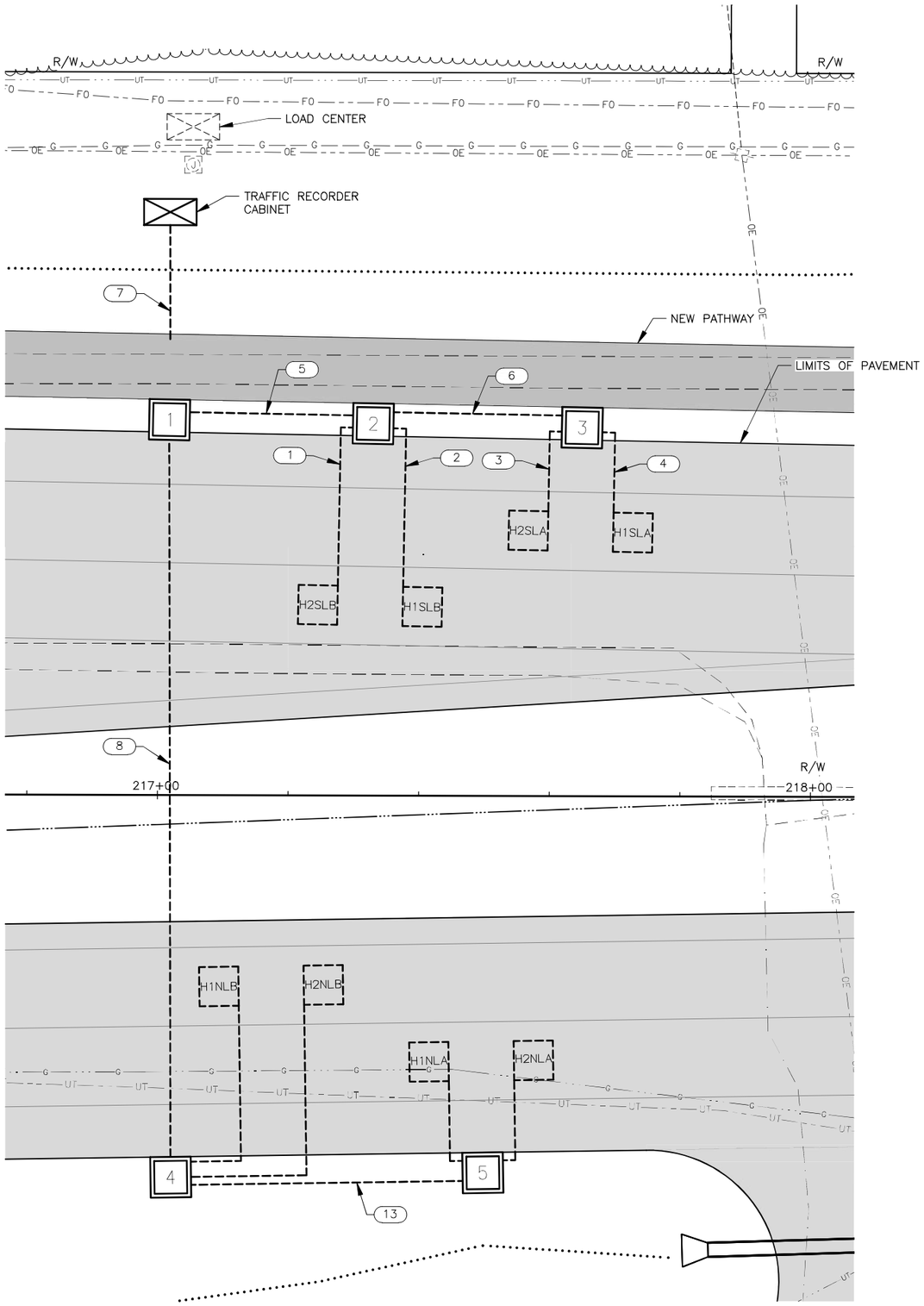
6/20/2025
LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PASSIVE TRAFFIC RECORDER SITE #1



HORZ SCALE IN FEET 0 10 20

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K13	K26

CONDUIT SCHEDULE

TAG #	CONDUIT SIZE (RMC)	NEW/ EXISTING	FROM	TO	NEW/ EXISTING	
					TYPEN	NUMBER
1	1"	NEW	H2SLB	JB2	1-1PR#14	
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

JUNCTION BOX SCHEDULE

JBOX	STATION	OFFSET	TYPE
1	000+00.0	00.0' LT	2
2			2
3			2
4			2
5			2

LOOP SCHEDULE

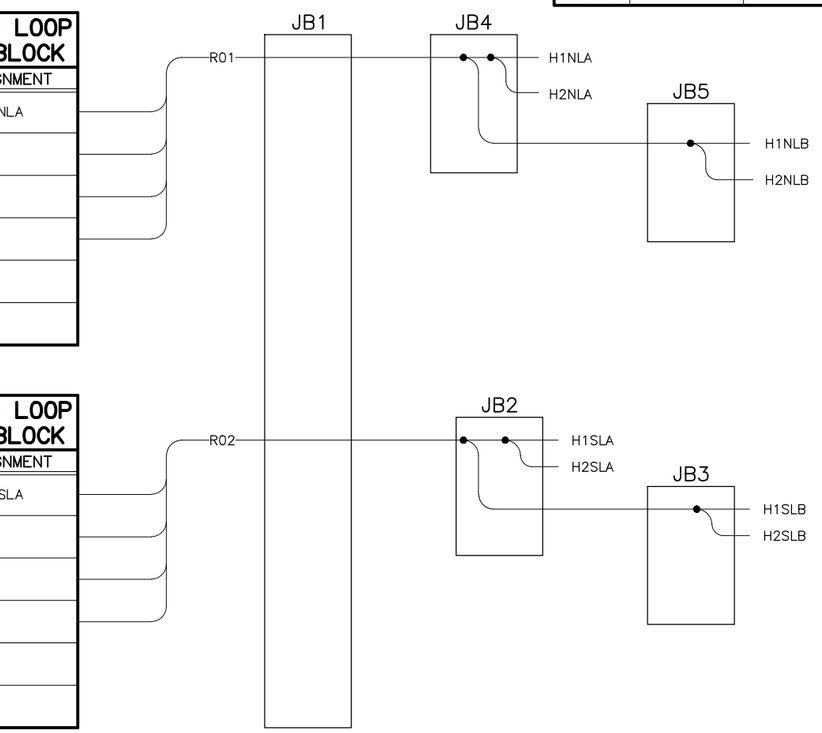
LOOP	STATION	OFFSET
H1NLA	000+00.0	00.0' RT
H2NLA		
H1NLB		
H2NLB		
H2SLA		
H1SLA		
H2SLB		
H1SLB		

NORTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	H1NLA
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

SOUTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	H1SLA
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	



6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

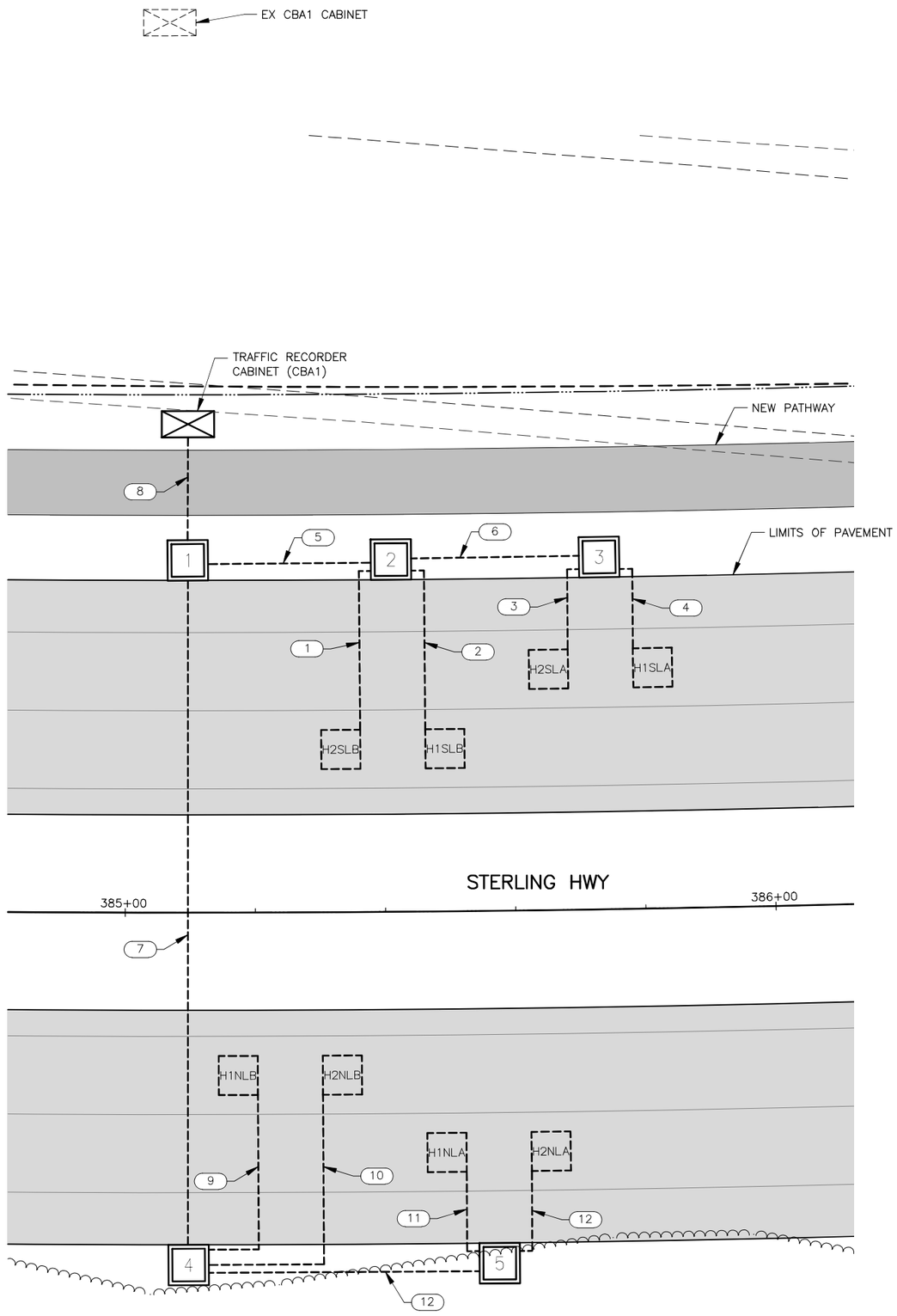
STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PASSIVE TRAFFIC RECORDER SITE #2

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE #" = 1'
DATE 6/20/2025 TIME 6:22 PM
DRAWING LOCATION Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_KP13_PTR PLAN.DWG

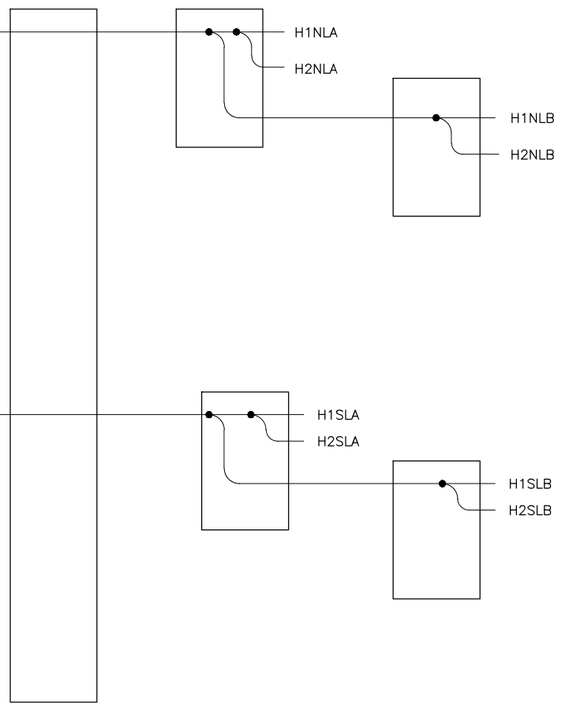
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A33026/CFHWY00130	2026	K14	K26

0 10 20
HORZ SCALE IN FEET



NORTHBOUND LOOP TERMINAL BLOCK	
PIN #	ASSIGNMENT
1	H1NLA
2	
3	H2NLA
4	
5	H1NLB
6	
7	H2NLB
8	
9	SPARE
10	SPARE
11	SPARE
12	SPARE

SOUTHBOUND LOOP TERMINAL BLOCK	
PIN #	ASSIGNMENT
1	H1SLA
2	
3	H2SLA
4	
5	H1SLB
6	
7	H2SLB
8	
9	SPARE
10	SPARE
11	SPARE
12	SPARE



6/20/2025
LOCAL REVIEW

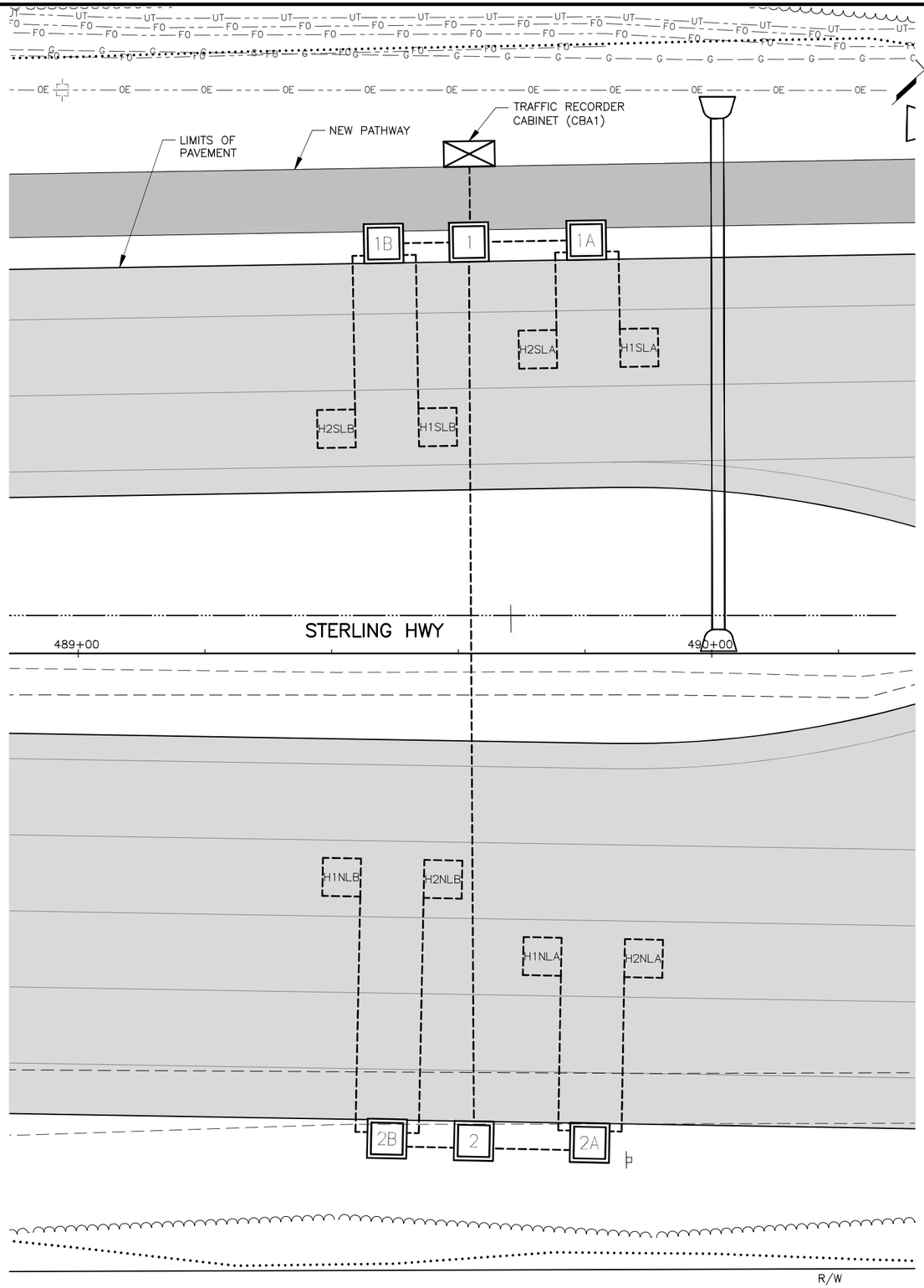
PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PASSIVE TRAFFIC RECORDER SITE #3 (W ATR)

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE #" = #"
DATE 6/20/2025 TIME 6:23 PM
DRAWING LOCATION Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_KP14_PTR PLAN.DWG



0 10 20
HORZ SCALE IN FEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K15	K26

CONDUIT SCHEDULE

TAG #	CONDUIT SIZE (RMC)	NEW/ EXISTING	FROM	TO	NEW/ EXISTING	
					TYPEN	NUMBER
1	1"	NEW	H2SLB	JB1B	1-1PR#14	
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

JUNCTION BOX SCHEDULE

JBOX	STATION	OFFSET	TYPE
1	000+00.0	00.0' RT	2
2			2
3			2
4			2
5			2

LOOP SCHEDULE

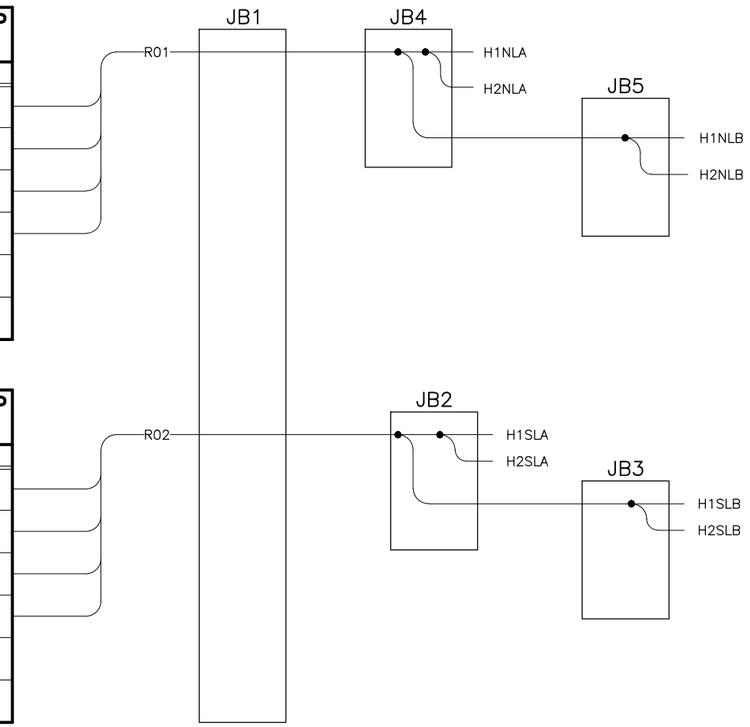
LOOP	STATION	OFFSET
H1NLA	000+00.0	00.0' RT
H2NLA		
H1NLB		
H2NLB		
H2SLA		
H1SLA		
H2SLB		
H1SLB		

NORTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	H1NLA
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

SOUTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	H1SLA
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	



6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PASSIVE TRAFFIC RECORDER SITE #4

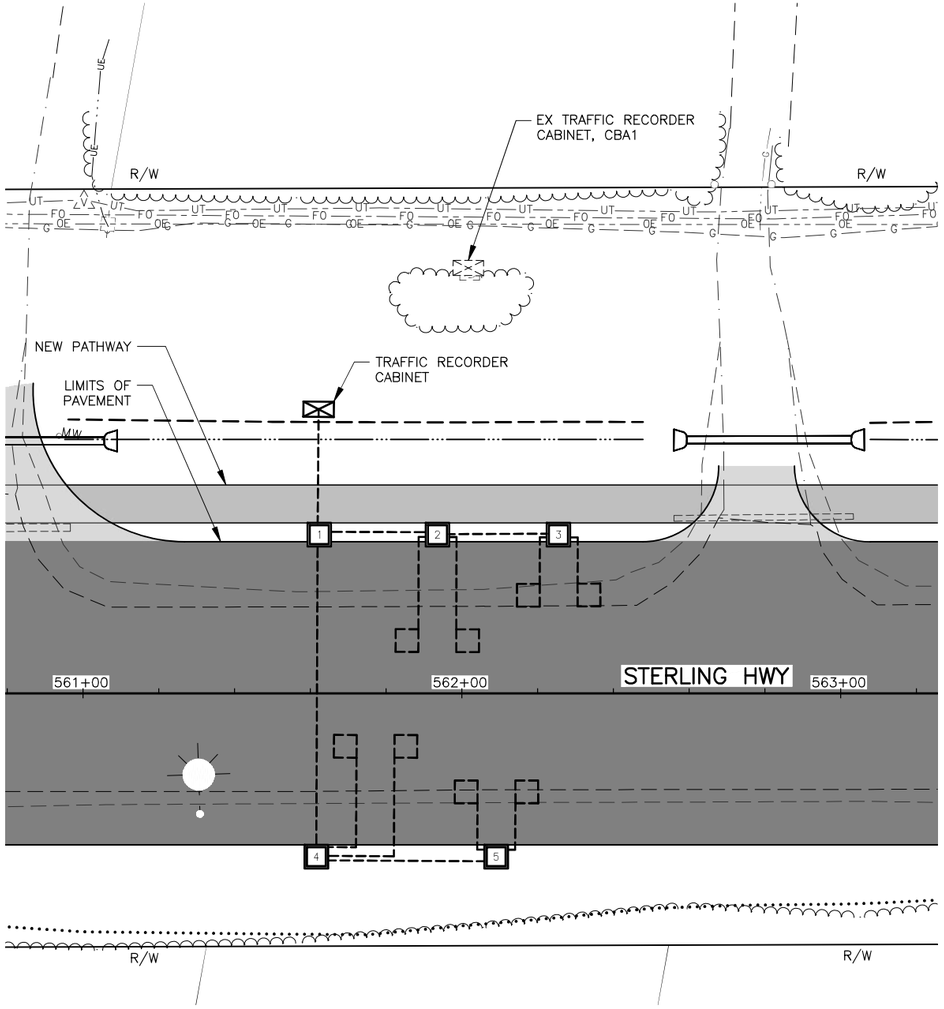
DESIGNED BY | CHECKED BY | DRAFTED BY: BCL
SCALE: #" = 1'
DATE TIME: 6/20/2025 6:25 PM
DRAWING LOCATION: Z:\PROJECTS\0007739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K15_PTR PLAN.DWG

DESIGNED BY	---
CHECKED BY	---
DRAFTED BY	BCL

SCALE: #" = #'

DATE: 6/20/2025 TIME: 6:26 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_KP5-KP7_PTR PLAN.DWG



0 20 40
HORZ SCALE IN FEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K16	K26

CONDUIT SCHEDULE

TAG #	CONDUIT SIZE (RMC)	NEW/ EXISTING	FROM	TO	NEW/ EXISTING	
					TYPEN	NUMBER
1	2"	NEW	JB4	JB1	1-6PR#18	
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

JUNCTION BOX SCHEDULE

JBOX	STATION	OFFSET	TYPE
1	00+00.0	00.0' RT	2
2			2
3			2
4			2
5			2

LOOP SCHEDULE

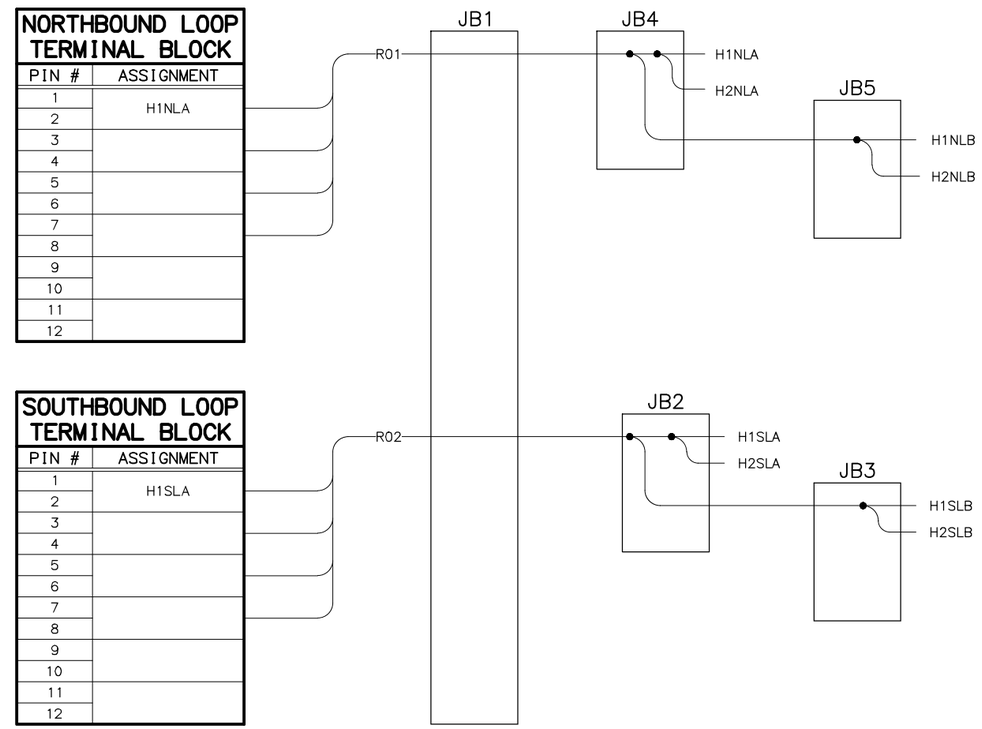
LOOP	STATION	OFFSET
H1NLA	00+00.0	00.0' RT
H2NLA		
H1NLB		
H2NLB		
H2SLA		
H1SLA		
H2SLB		
H1SLB		

NORTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	H1NLA
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

SOUTHBOUND LOOP TERMINAL BLOCK

PIN #	ASSIGNMENT
1	H1SLA
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	



6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

PASSIVE TRAFFIC RECORDER SITE #5

NO.	DATE	REVISION

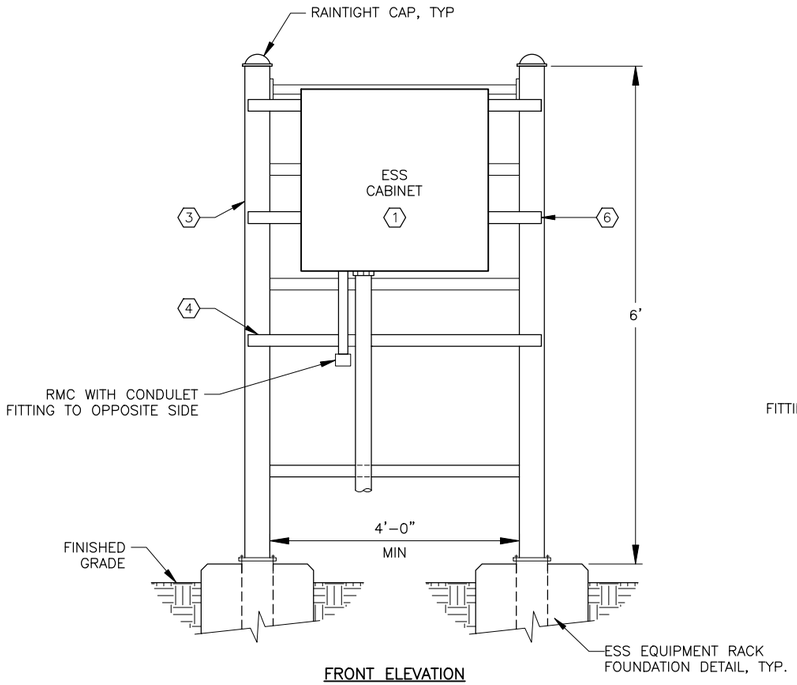
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K17	K26

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

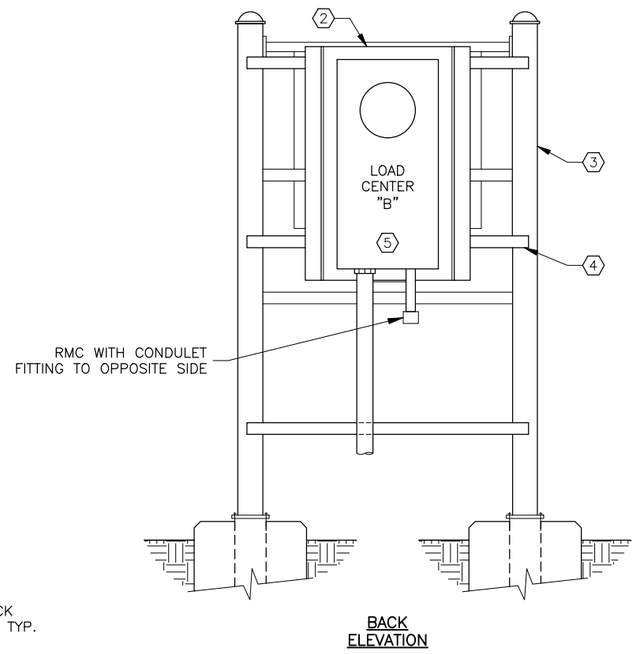
SCALE #" = 1'-0"

DATE 6/20/2025 TIME 6:27 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K17_RWIS EQUIP RACK DETAIL.DWG



FRONT ELEVATION



BACK ELEVATION

ESS EQUIPMENT RACK ELEVATIONS

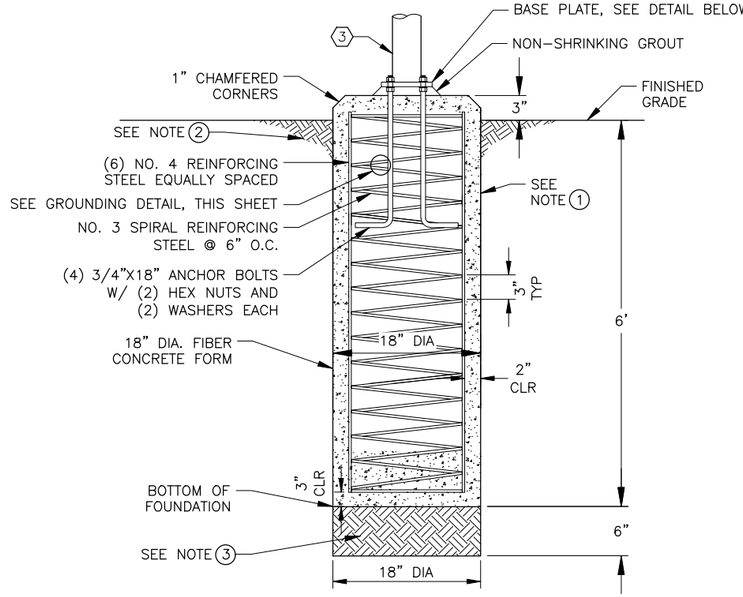
NTS

KEY NOTES:

1. PROVIDE SHOP FABRICATED INSULATED CABINET SHIELD FOR THE ESS CABINET. SEE ESS CABINET SHIELD DETAIL.
2. PROVIDE SHOP FABRICATED STEEL BACKPLATE WITH TOP AND SIDE SHIELDS FOR THE POWER SUPPLY\LOAD CENTER ENCLOSURE(S) (NOT SHOWN). USE 1/4-INCH MILD STEEL PLATE; HDG AFTER FABRICATION.
3. RACK VERTICAL SUPPORTS SHALL BE 4" SCHEDULE 40 HDG STEEL PIPE.
4. RACK HORIZONTAL SUPPORTS SHALL BE 1-5/8" 12 GA HDG STRUT AT 12" MAX SPACING, QUANTITY AS REQUIRED TO SUPPORT EQUIPMENT.
5. TYPE 2 LOAD CENTER. SEE ONE-LINE DIAGRAM ON SHEET __.
6. ALL EXTERIOR CHANNELS, BRACKETS, BRACES, CLAMPS, HARDWARE, AND FASTENERS SHALL BE HDG IN ACCORDANCE WITH ASTM A123 OR A153.

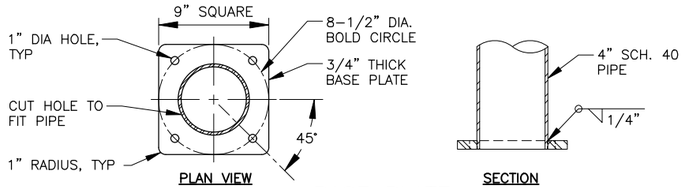
FOUNDATION NOTES:

1. PROVIDE CLASS A CONCRETE FOUNDATION. COMPLETE ALL CONCRETE WORK IN CONFORMANCE WITH SECTIONS 501, 503, AND 660 OF THE SPECIFICATIONS. VIBRATE CONCRETE DURING PLACEMENT BY MECHANICAL VIBRATION PER SUBSECTION 501-3.08. ENSURE UPPER ANCHOR ROD THREADS ARE PROTECTED FROM CONTACT WITH CONCRETE DURING POUR.
2. BACKFILL AND COMPACT ACCORDING TO SECTION 205, AND SUBSECTIONS 203-3.04 AND 660-3.01 OF THE SPECIFICATIONS. USE SELECT MATERIAL, TYPE A OR SAND SLURRY AS BACKFILL MATERIAL. ENSURE AREA BELOW FOUNDATION MEETS COMPACTION REQUIREMENTS AND IS FREE OF LOOSE MATERIAL AND DEBRIS PRIOR TO CONCRETE WORK.
3. PROVIDE AND COMPACT POUROUS BACKFILL MATERIAL THAT MEETS THE REQUIREMENTS OF SSHC 703-2.10 UNDER CONCRETE FOUNDATION.
4. FOR EACH NEW ESS EQUIPMENT RACK INSTALLATION, PROVIDE (2) 3/4"X10 FEET COPPER CLAD GROUND RODS SPACED 8 FEET MINIMUM APART. SEE GROUNDING DIAGRAM ON SHEET __.
5. PROVIDE 1.5 EXTRA TURNS AT EACH END OF THE SPIRAL REINFORCING STEEL. REINFORCING STEEL SHALL NOT BE SPLICED. TIE VERTICAL REINFORCING STEEL TO INTERSECTION OF THE SPIRAL REINFORCING STEEL.



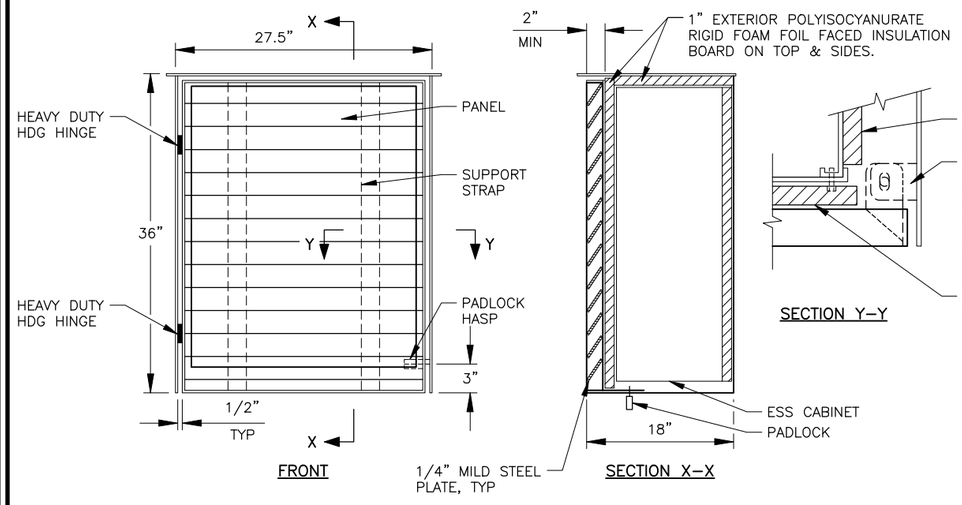
ESS EQUIPMENT RACK FOUNDATION

NTS



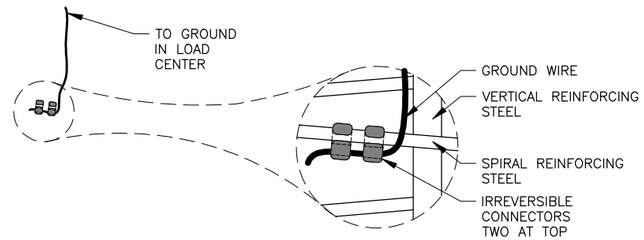
BASE PLATE

NTS



ESS CABINET SHIELD DETAILS

NTS



FOUNDATION GROUNDING DETAIL

NTS

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

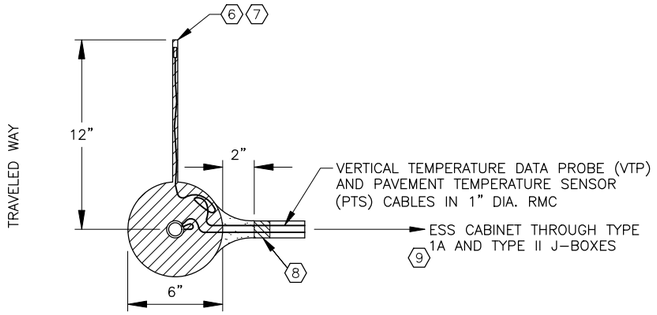
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

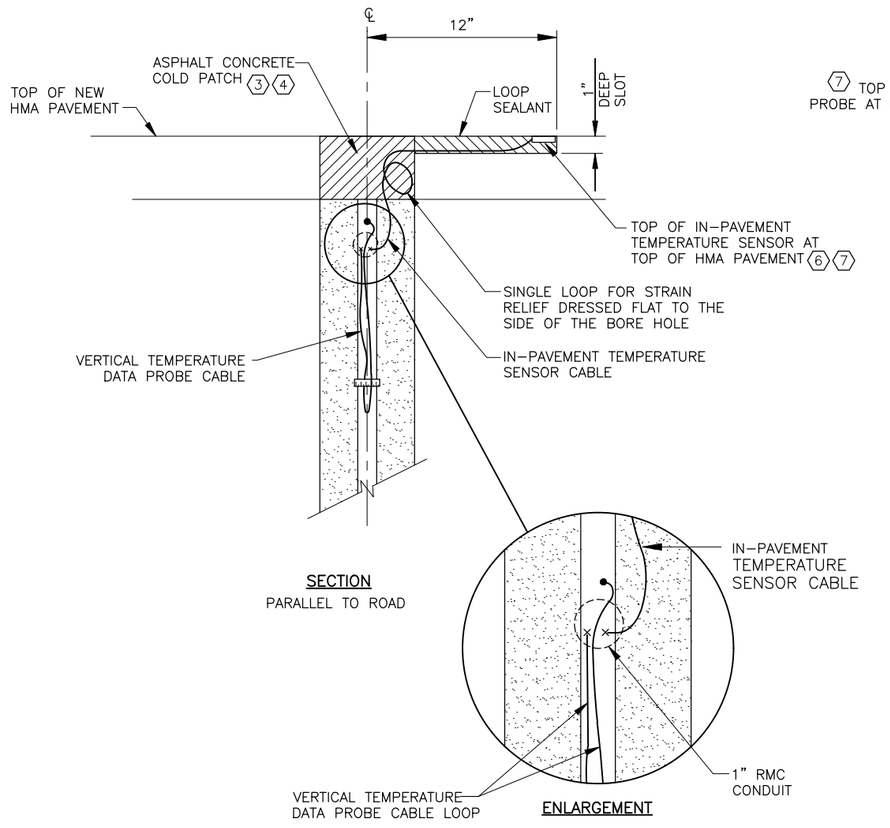
RWIS EQUIPMENT RACK DETAIL

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K18	K26

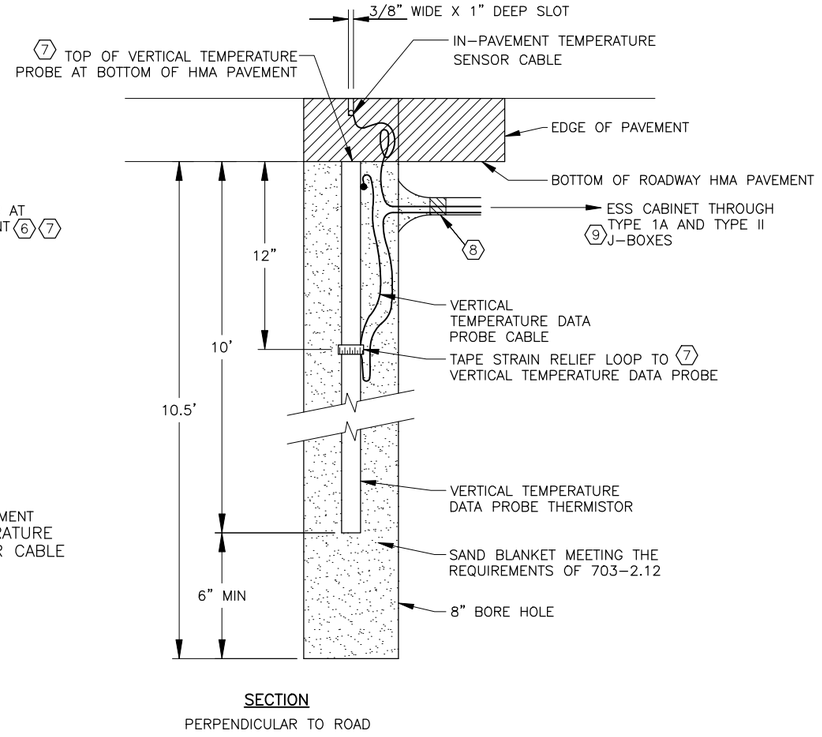


PLAN VIEW



SECTION
PARALLEL TO ROAD

ENLARGEMENT



SECTION
PERPENDICULAR TO ROAD

NOTES:

1. INSTALLATION OF EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE, ALASKA DOT&PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND LOCAL AMENDMENTS.
2. EVERY EFFORT HAS BEEN MADE TO MAKE THE INFORMATION CONTAINED IN THESE DOCUMENTS COMPLETE AND ACCURATE. HOWEVER, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
3. ASPHALT CONCRETE COLD PATCH SHALL BE HEATED BEFORE PLACEMENT. DO NOT APPLY HEAT TO THE COLD PATCH AFTER PLACEMENT IN THE 8" BORE HOLE.
4. APPLY ASPHALT TACK COAT TO EXISTING ASPHALT SURFACE INSIDE BORE HOLE BEFORE PLACING ASPHALT CONCRETE COLD PATCH.
5. ALL PVC CONDUIT AND FITTINGS SHALL BE 1 INCH SCHEDULE 80.
6. 3/8" WIDE X 1" DEEP SLOT FOR IN-PAVEMENT SURFACE TEMPERATURE SENSOR SHALL BE PARALLEL TO THE DIRECTION OF TRAVELED WAY.
7. INSTALL VERTICAL TEMPERATURE DATA PROBE, PAVEMENT TEMPERATURE SENSOR, AND ASSOCIATED HARDWARE AS SHOWN.
8. SEAL END OF 1" RMC WITH 3M TYPE LOOP SEALANT OR EQUIVALENT AS APPROVED BY THE ENGINEER.
9. RUN IN-PAVEMENT TEMPERATURE SENSOR (PTS) VERTICAL CABLE UNSPLICED TO ESS CABINET IN RMC FOR CONNECTION TO DATA LOGGER. RUN VERTICAL TEMPERATURE DATA PROBE (VTP) CABLE FROM PROBE TO WATER TIGHT SEALED ELECTRONICS UNIT IN TYPE II JUNCTION BOX AND CONTINUE VTP CABLE TO ESS CABINET FOR CONNECTION TO DATA LOGGER.

VERTICAL TEMPERATURE DATA PROBE AND PAVEMENT TEMPERATURE SENSOR DETAILS

NTS

6/20/2025
LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

RWIS TEMPERATURE SENSOR DETAIL

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE TIME
6/20/2025 6:27 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K18_RWIS TEMP SENSOR DETAIL.DWG

NO.	DATE	REVISION

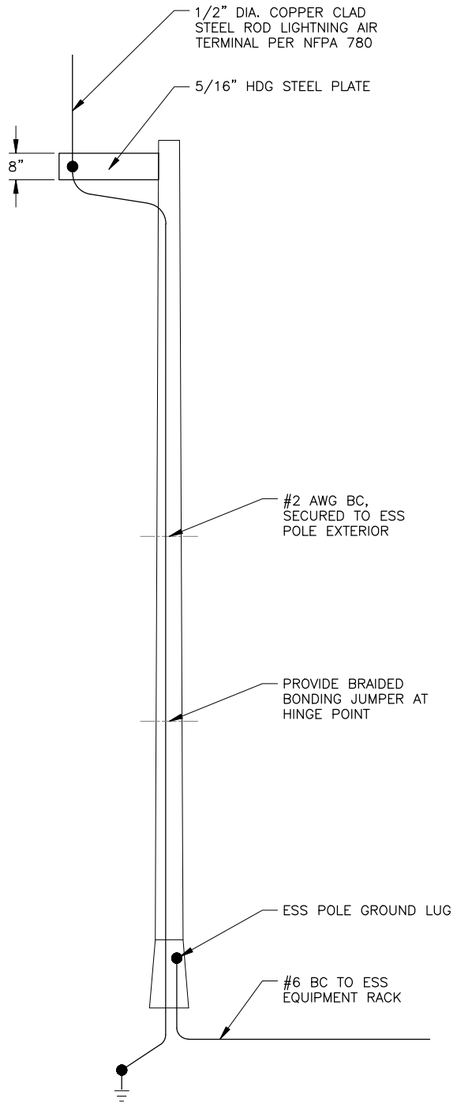
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K19	K26

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

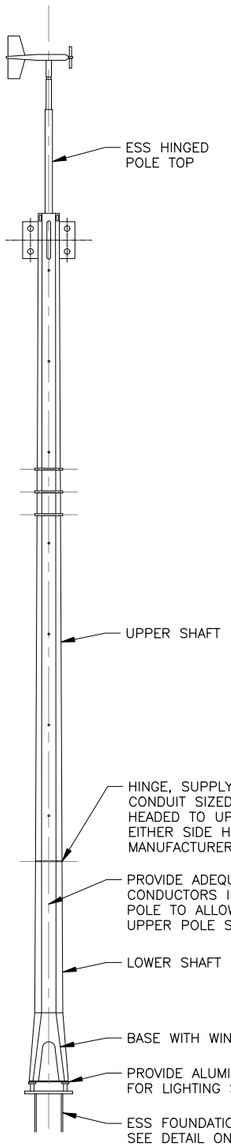
SCALE #" = #"

DATE TIME 6/20/2025 6:27 PM

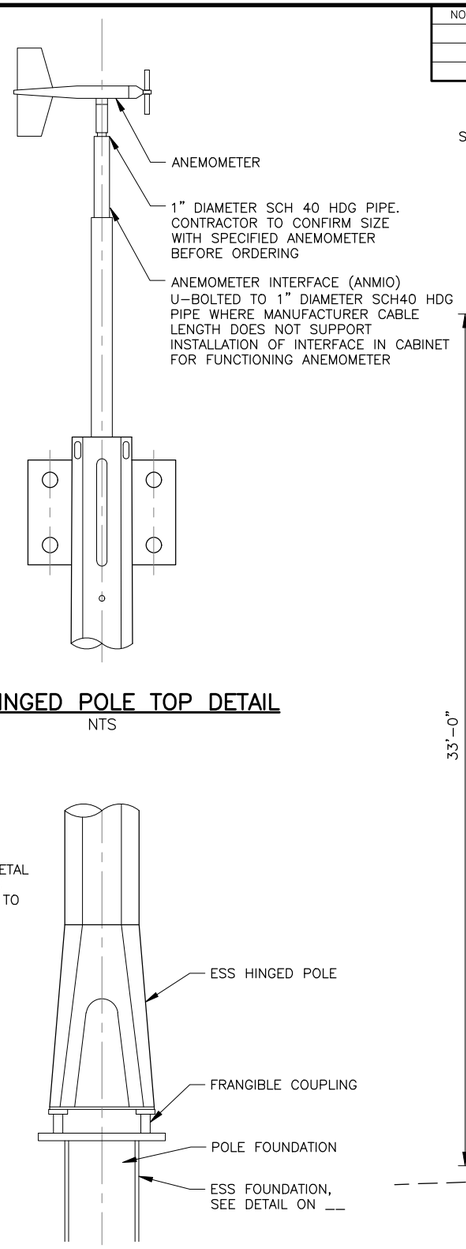
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\0013O_K19_RWIS HINGED POLE DETAIL.DWG



ESS POLE GROUNDING DETAIL
NTS

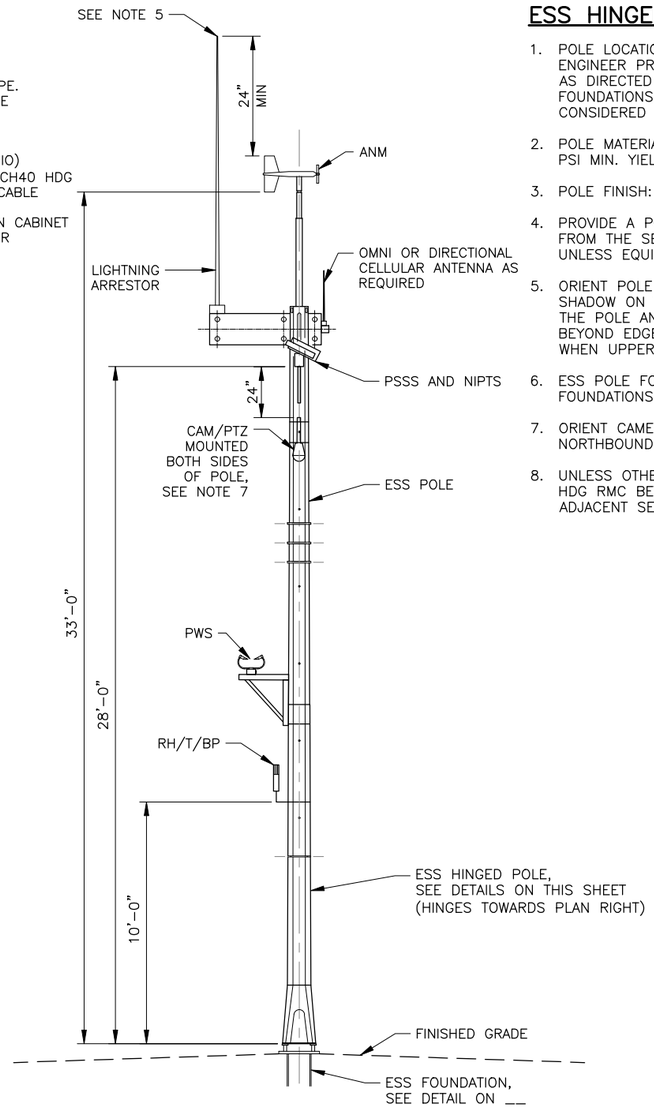


ESS HINGED POLE DETAIL
NTS



ESS HINGED POLE TOP DETAIL
NTS

ESS HINGED POLE BASE DETAIL
NTS



ESS POLE EQUIPMENT DETAIL
NTS

ESS HINGED POLE NOTES:

1. POLE LOCATIONS SHALL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ADJUST POLE LOCATIONS AS DIRECTED BY THE ENGINEER. MINOR RELOCATIONS OF FOUNDATIONS, CONDUIT AND JUNCTION BOXES SHALL BE CONSIDERED SUBDIARY TO THE RWIS PAY ITEM.
2. POLE MATERIAL: HIGH STRENGTH LOW ALLOY STEEL, 50,000 PSI MIN. YIELD PER ASTM A572, A607 OR A1011.
3. POLE FINISH: HOT DIPPED GALVANIZED (HDG).
4. PROVIDE A POLE THAT CAN BE LOWERED TO AND RAISED FROM THE SERVICE HEIGHT WITHOUT SPECIAL EQUIPMENT, UNLESS EQUIPMENT CAN BE STORED ON SITE.
5. ORIENT POLE AS INDICATED BY THE ESS POLE LAYDOWN SHADOW ON THE PLANS. CONTRACTOR SHALL ENSURE THAT THE POLE AND MOUNTED EQUIPMENT DOES NOT EXTEND BEYOND EDGE OF ROADWAY PAVEMENT FOR NAMED ROADWAYS WHEN UPPER POLE SHAFT IS LOWERED.
6. ESS POLE FOUNDATIONS SHALL BE DRIVEN STEEL PIPE PILE FOUNDATIONS AS DETAILED ON SHEET __.
7. ORIENT CAMERAS ON POLE TO COVER TRAVELLED WAY FOR NORTHBOUND AND SOUTHBOUND DIRECTIONS.
8. UNLESS OTHERWISE NOTED ON THE PLANS, PROVIDE ONE 3" HDG RMC BETWEEN EACH ESS POLE FOUNDATION AND ADJACENT SERVING JUNCTION BOX.

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

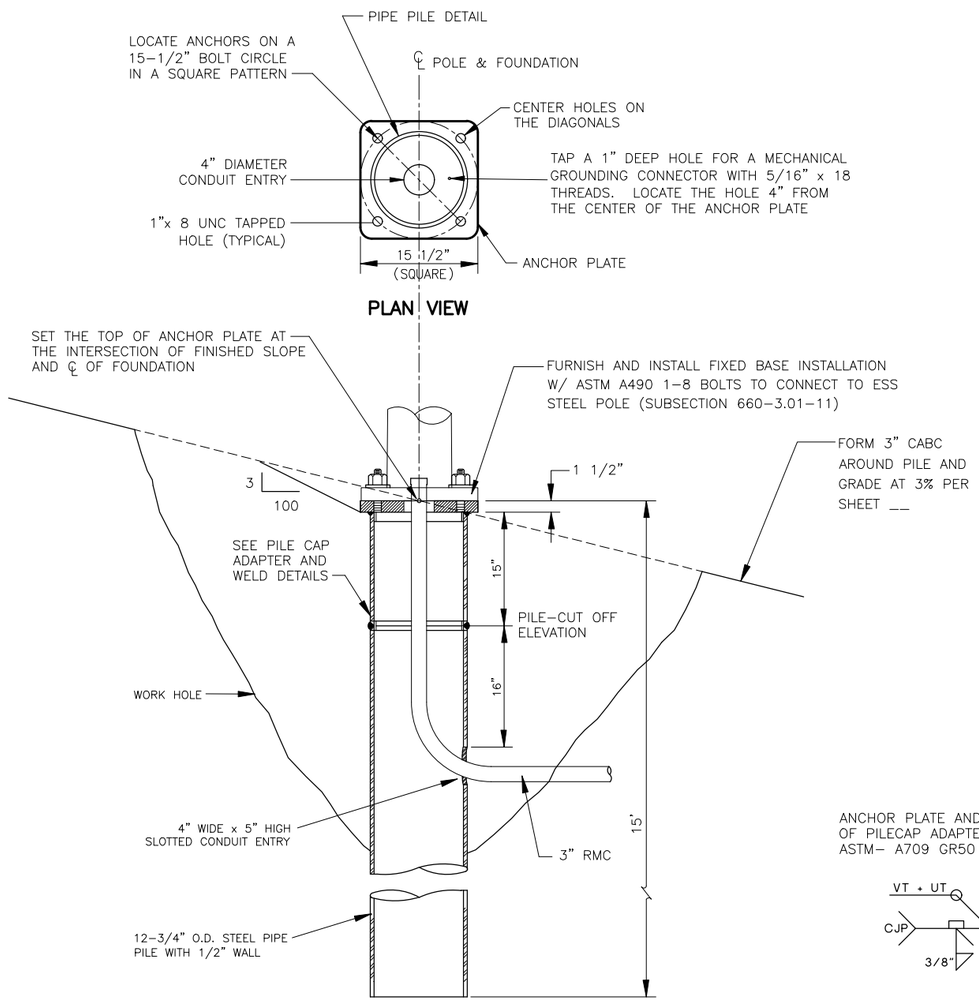
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

RWIS HINGED POLE DETAIL

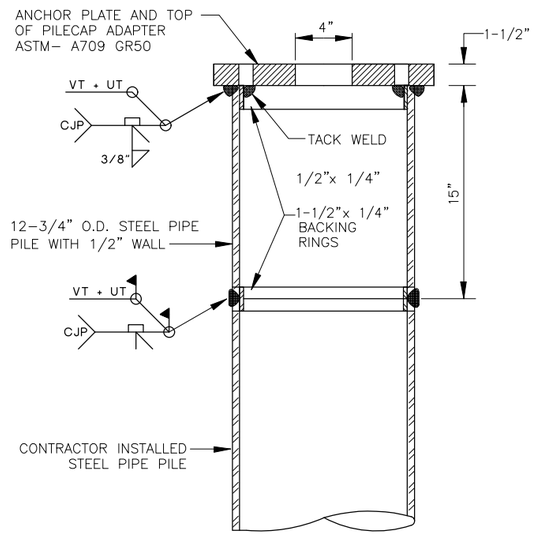
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K20	K26



PIPE PILE FOUNDATION

(SHOWN WITH FRANGIBLE COUPLINGS)



PILECAP ADAPTER AND WELD DETAILS

NTS

DESIGN NOTES:

1. DESIGN STANDARD: 2001 STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRE AND TRAFFIC SIGNALS WITH 2006 INTERIM.
2. DESIGN LOADS: 5–KIPS AXIAL, 7.5–KIPS SHEAR, 40–KIP–FT MOMENT.
3. GALVANIZATION OF PILE IS NOT REQUIRED. UNLESS THE GROUND WATER TABLE IS FOUND TO BE, ABOVE 5 FEET, THEN GALVANIZE PILE ACCORDING TO SECTION 505.
4. CHARPY TEST FOR ESS POLE PILE FOUNDATIONS ARE NOT REQUIRED.

MATERIAL REQUIREMENTS		
STRUCTURAL STEEL PLATE	ASTM A709 GRADE 50	Fy = 50 ksi
STEEL PIPE PILE	ASTM A709, GRADE 50 T3	Fy = 50 ksi
	API 5L GRADE X 42	Fy = 42 ksi

NOTES:

1. FURNISH STEEL PIPE PILES THAT CONFORM TO THE MATERIAL REQUIREMENTS AND SECTION 660, 715 AND 740 OF THE SPECIFICATIONS. NO SPLICES ARE ALLOWED BELOW THE PILECAP ADAPTER.
2. DRIVE PILES OPEN ENDED. COMPLETE PILE WORK ACCORDING TO SECTIONS 505, 660 AND 715 OF THE SPECIFICATIONS. REMOVE AND REINSTALL PILES OUT OF PLUMB MORE THAN 1:40.
3. FRESH HEAD THE TOP OF PILES IN A LEVEL PLANE AND CUT THE CONDUIT ENTRANCE HOLE AFTER DRIVING THE PILE. NOTE; ONLY MECHANICAL OR PLASMA CUTTER MEANS ARE PERMITTED. OXY–FUEL CUTTING IS PROHIBITED.
4. FURNISH ONLY SHOP FABRICATED PILECAP ADAPTERS. INCLUDE STAMPED ENGINEERING CALCULATIONS, DRAWINGS, MILL CERTIFICATIONS AND WELDING PLANS FOR PILECAP ADAPTERS AND THE PILECAP ADAPTER TO PILE WELD. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AWS D1.1, STRUCTURAL WELDING CODE–STEEL AND THE SPECIFICATIONS.
5. WAIT AT LEAST 3 DAYS AFTER BACKFILLING THE WORK HOLE BEFORE ERECTING POLE.
6. TERMINATE CONDUIT(S) 3" ABOVE THE TOP OF THE ANCHOR PLATE. INSTALL A GROUNDING BUSHING ON THE END OF THE RIGID METAL CONDUIT AND ESTABLISH A BOND WITH THE ANCHOR PLATE.

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

RWIS FOUNDATION POLE DETAIL

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

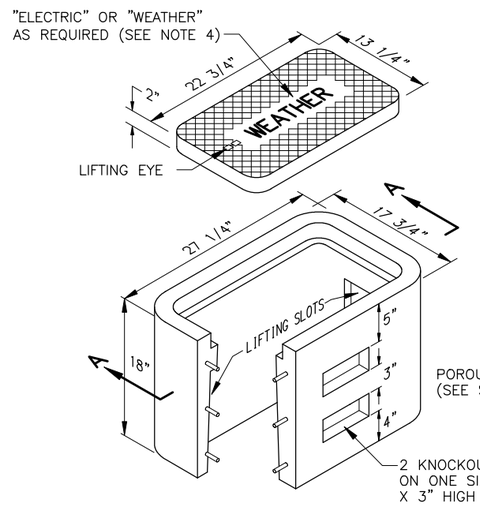
SCALE #" = 1'

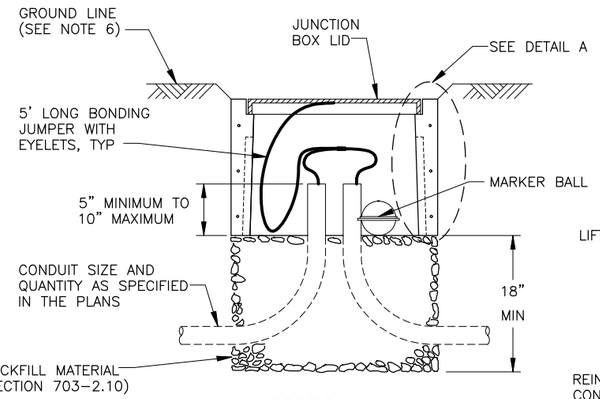
DATE TIME 6/20/2025 6:27 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K20_RWIS HINGED POLE DETAIL.DWG

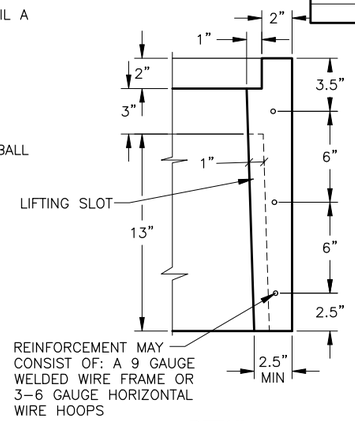
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K21	K26



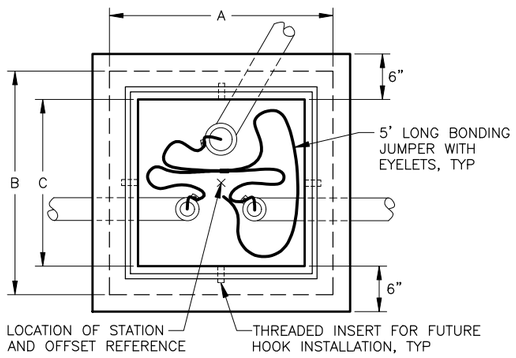


SECTION A–A

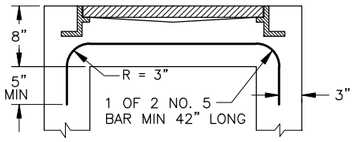


DETAIL A

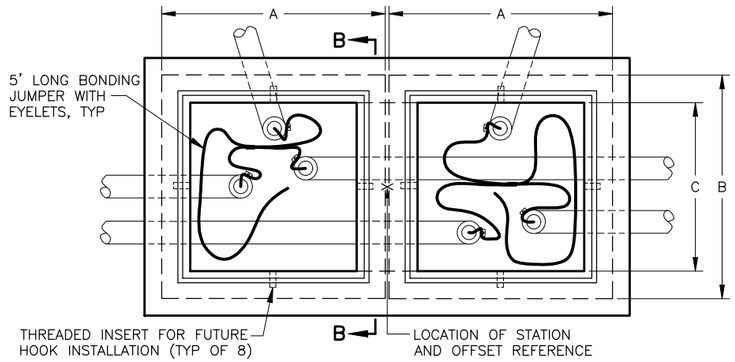
TYPE IA JUNCTION BOX



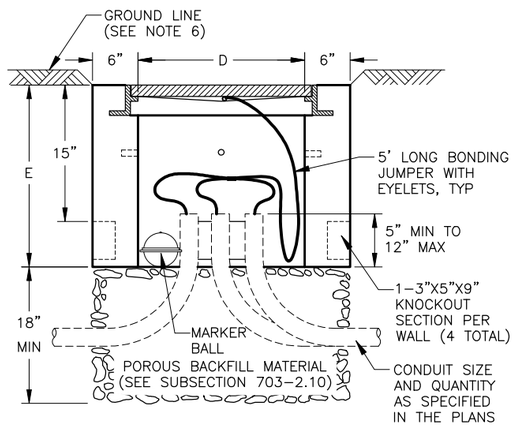
PLAN



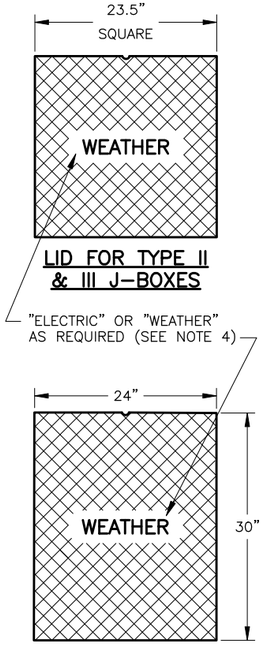
SECTION B–B



PLAN

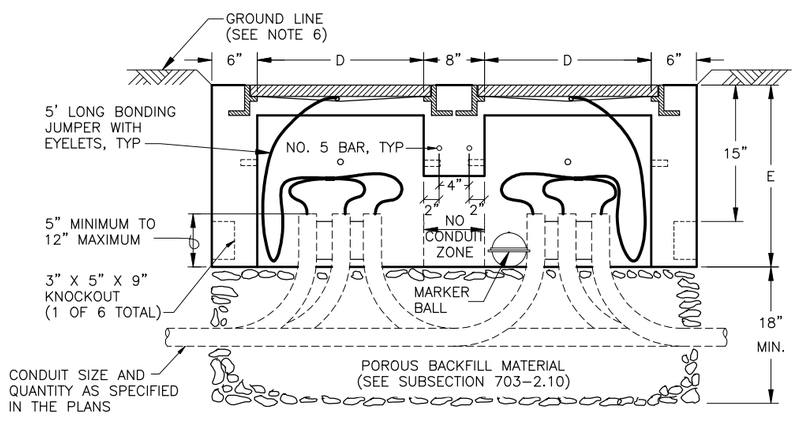


TYPE II JUNCTION BOX
ELEVATION



LID FOR TYPE II & III J–BOXES

LID FOR TYPE IV J–BOXES



TYPE III/IV JUNCTION BOX
ELEVATION (TYPE III LAYOUT DEPICTED)

NOTES:

1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660–3.04.
2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE IA JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER–REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
4. FOR JUNCTION BOXES THAT CONTAIN POWER CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD "ELECTRIC" INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD "WEATHER" INSCRIBED INTO THEM.
5. UNDER JUNCTION BOXES, INSTALL POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703–2.10.
6. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
   - 1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
   - 1/4" IN PEDESTRIAN FACILITIES
   - 2" IN ALL OTHER AREAS
7. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660–3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH BRASS OR STAINLESS STEEL HARDWARE.
8. INSTALL LOOP DETECTOR TAILS THROUGH ONE OF THE KNOCKOUTS OF TYPE 1A JUNCTION BOXES. AFTER SETTING THE BOXES TO GRADE, INSTALL GROUT IN THE GAPS THAT REMAIN IN THE KNOCKOUT.
9. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
10. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660–3.04.
11. PRIOR TO INSTALLATION MARK ALL JUNCTION BOX LOCATIONS WITH A WIRE STAFF VINYL FLAG. THE FLAG SHALL BE RED IN COLOR AND MINIMUM 4–INCHES TALL BY 5–INCHES WIDE. THE WIRE STAFF SHALL BE 21–INCHES IN LENGTH AND CONSTRUCTED OF MINIMUM 15.5 GAUGE STEEL.
12. WHERE MODIFIED TYPE II JUNCTION BOXES ARE REQUIRED FOR DETECTOR LOOP TAIL INSTALLATIONS, ADD ONE(1) ADDITIONAL 5" DEEP X 3" HIGH X 18" WIDE KNOCKOUT 12" BELOW TOP OF JUNCTION BOX.

J–BOX DIMENSIONS

J–BOX TYPE	DIMENSIONS				
	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (MIN.)
II	29 1/2"	29 1/2"	22"	22"	24"
III	29 1/2"	29 1/2"	22"	22"	24"
IV	30"	36"	30"	24"	30"

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

RWIS JUNCTION BOX DETAILS

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

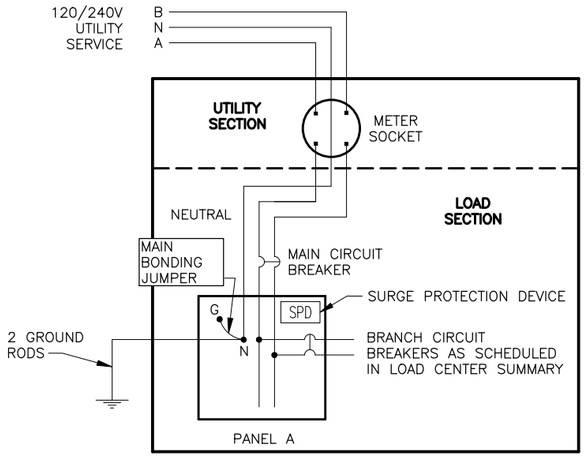
SCALE #" = 1'

DATE 6/20/2025 TIME 6:27 PM

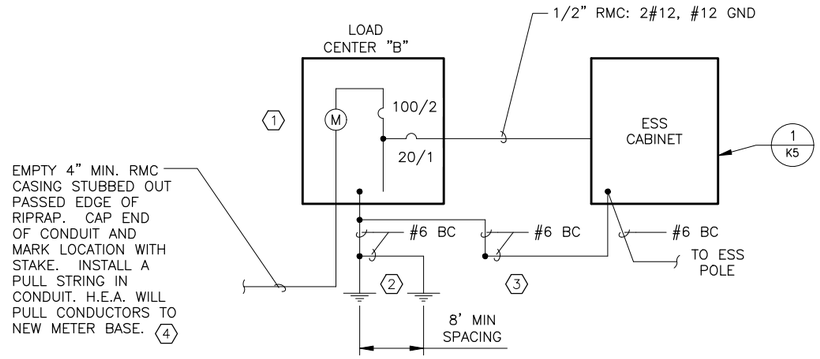
DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\0033O_K21_RWIS HINGED POLE DETAIL.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K22	K26



LOAD CENTER "B" WIRING DIAGRAM



LOAD CENTER "B" POWER 1-LINE & GROUNDING DIAGRAM

KEY NOTES:

1. PROVIDE SERVICE EQUIPMENT AND RELATED INSTALLATION IN ACCORDANCE WITH SERVIING UTLITY STANDARDS. CONTRACTOR SHALL APPLY FOR NEW SERVICE, OBTAIN NECESSARY INSPECTIONS, SCHEDULE THE SERVICE HOOKUP, AND INCLUDE PAYMENT OF ALL RELATED FEES.
2. PROVIDE TWO 3/4-INCH X 10 FT GROUND ROD ELECTRODE(S).
3. BOND THE STRUCTURAL STEEL RACK ELECTRODE TO THE SYSTEM GROUND.
4. 4" MIN CONDUIT SIZE OVERRIDES STANDARD TYPE 2 LOAD CENTER DETAIL.

LOAD CENTER SUMMARY

LOAD CENTER:	"B"	TYPE:	2	UTILITY SOURCE:	HOMER ELECTRIC ASSOCIATION (HEA)
LOCATION:	MOUNT OPPOSITE OF ESS CABINET STA 163+15, 62' RT			SERVICE:	100 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE
REMARKS:	NEW LOAD CENTER, OWNED BY DOT&PF			MAX. AVAILABLE FAULT CURRENT:	2,364 AMP

MAIN BREAKER — 100 AMP — 2-POLE — 120/240 VAC — INTERRUPTING RATING: 10,000 AMP

PANEL 'A' SCHEDULE — 120/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO — INTERRUPTING RATING: 10,000 AMP

CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	KVA / LNE A	KVA / LNE B	CKT NO.	DESCRIPTION	CKT. BKR.	KVA
1	RWIS/ ESS CABINET	20A/1P	1.1	1.1		2	SPARE	20A/2P	
3	SPARE	20A/1P			0.0	4		–	
5	SPACE			0.0		6	SPACE		
7	SPACE				0.0	8	SPACE		

TOTAL SERVICE LOAD:					
CONNECTED:	1.1	0.0	1.1 KVA	5 AMP	
DEMAND:			1.4 KVA	6 AMP	

NOTES:
1. INSTALL LOAD CENTER "B" ON BACK OF ESS EQUIPMENT RACK, SEE SHEET K17.
2. COORDINATE WITH HEA ON DIRECTION THE METER FACES. ORIENT ESS EQUIPMENT RACK ACCORDINGLY.

LOAD CENTER 'B" ARC-FLASH SCHEDULE

DEVICE	VOLTAGE	BOLTED FAULT CURRENT	ARCING CURRENT MAX	ARCING CURRENT REDUCED	WORKING DISTANCE	ARC-FLASH BOUNDARY DISTANCE	INCIDENT ENERGY (CAL/CM²)
B	240V						

CONTRACTOR SHALL FIELD VERIFY UTILITY TRANSFORMER AND SIZE AND LOCATION. CHANGE AIC RATING AS REQUIRED.

LOAD CENTER "B" ARC FLASH NOTES:

1. UTILITY TRANSFORMER IS ASSUMED TO BE 10KVA, FED BY 60' OF #2 AL CONDUCTOR. ADJUST CALCULATION IF FIELD CONDITIONS ARE OTHERWISE.
2. ARC FLASH PPE REQUIREMENTS: PPE 1 AS PER TABLE 130.7(C)(15)(a).
3. PROVIDE ARC FLASH WARNING LABEL AS PER NFPA 2018 70E 130.5 ARC FLASH RISK ASSESMENT (H) (3) INDICATING EITHER 3.1 OR 3.2 BUT NOT BOTH.
   - 3.1. INCIDENT ENERGY AND CORRESPONDING WORKING DISTANCE.
   - 3.2. THE REQUIRED PPE.

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

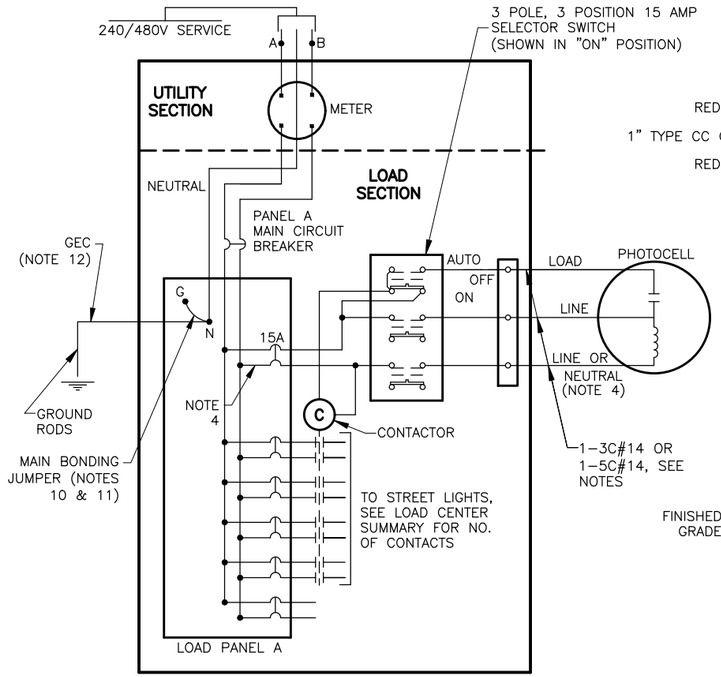
STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

RWIS LOAD CENTER SUMMARY AND WIRING DIAGRAM

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE #" = #"
DATE TIME 6/20/2025 6:27 PM
DRAWING LOCATION Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K22_RWIS HINGED POLE DETAIL.DWG

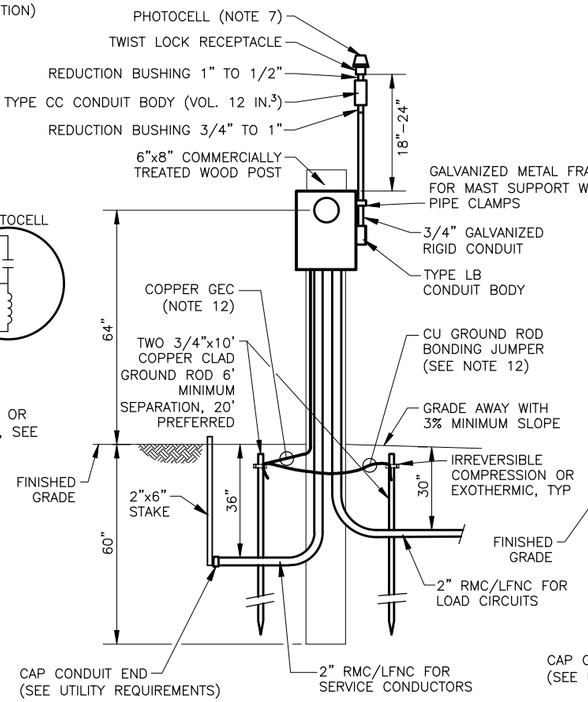
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K23	K26

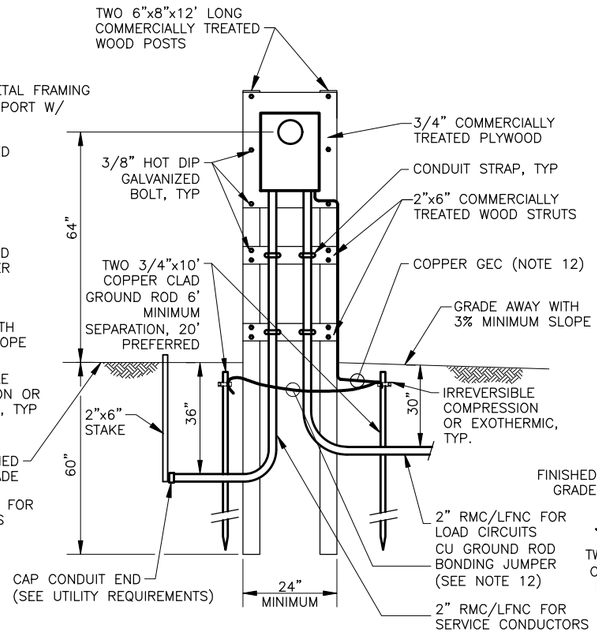


LOAD CENTER ONE LINE DIAGRAM AND SELECTOR SWITCH WIRING

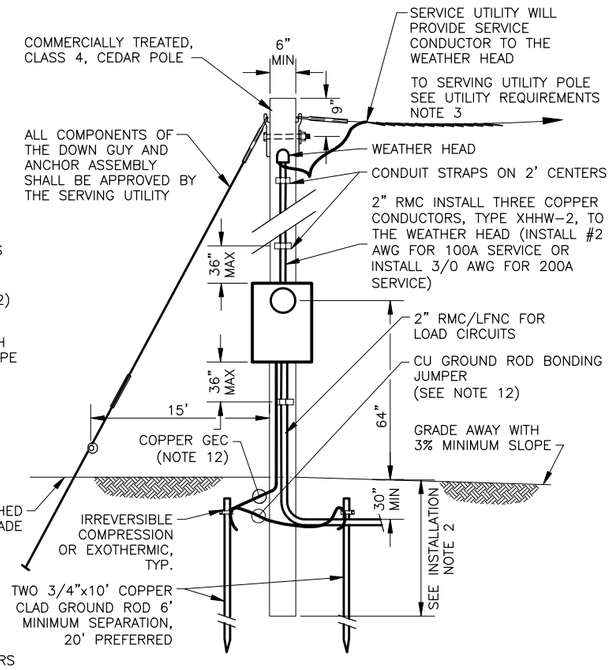
TYPICAL PHOTO CELL INSTALLATION



TYPE 2 LOAD CENTER
SINGLE POST - STANDARD



TYPE 2 LOAD CENTER
DUAL POST - ALTERNATE



TYPE 3 LOAD CENTER

WIRING NOTES:

1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL TWO-POLE CIRCUIT BREAKERS, IN EACH LOAD PANEL. SEE SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, SHORT CIRCUIT INTERRUPTING RATINGS, AND THE NAME OF THE SERVING UTILITY.
2. SIZE THE TYPE 2 AND 3 LOAD CENTER CABINETS TO HOLD THE EQUIPMENT SHOWN IN THE WIRING DIAGRAM AND DETAILED IN EACH LOAD CENTER SUMMARY, ALLOWING SPACE FOR WIRING PER THE NATIONAL ELECTRICAL CODE. INSTALLING A METER BASE AND MAIN BREAKER IN A SEPARATE ENCLOSURE IS ALLOWABLE. HOWEVER IN THIS CASE, FURNISH A BREAKER PANEL WITH A MAIN BREAKER.
3. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
4. THE VOLTAGE FOR THE PHOTOELECTRIC CONTROL EQUIPMENT SHALL BE 240-VOLT, DERIVED FROM THE SERVICE VOLTAGE, OR FROM A CONTROL TRANSFORMER. PROVIDE 1-POLE CIRCUIT BREAKER ON 240/480V LOAD CENTER AND 2-POLE CIRCUIT BREAKER ON 120/240V LOAD CENTERS.
5. INSTALL GROUNDING HUBS THIRD PARTY CERTIFIED FOR WET LOCATIONS WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
6. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION.
7. WHEN CALLED FOR, INSTALL THE PHOTOELECTRIC CONTROL UNIT ON A 3/4" OR LARGER CONDUIT. LOCATE THE UNIT 18"-24" ABOVE THE TOP OF THE LOAD CENTER. ORIENT THE CONTROL WINDOW FACING NORTH AND/OR AWAY FROM ARTIFICIAL LIGHT SOURCES THAT MAY INTERFERE WITH AMBIENT LIGHT CONTROL. INSTALL A 3C#14 CABLE FROM THE LOAD CENTER TO THE TYPE CC CONDUIT BODY WHERE THE SPLICE TO THE PHOTOCELL RECEPTACLE CABLE SHALL BE MADE. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER USE A 5C#14 CABLE FROM LOAD CENTER TO RECEPTACLE. PHOTOCELL MUST BE ENCLOSED IN A METALLIC ENCLOSURE.
8. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST INCLUDING THE MANUFACTURERS' NAMES AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD CENTER DOOR, PROVIDING DRAIN HOLES TO PREVENT WATER ACCUMULATION.
9. WHEN METAL HALIDE OR MERCURY VAPOR LAMPED FIXTURES ARE USED, PROVIDE A REMOTE BULB THERMOSTAT, SO THAT THE CONTACT CLOSES AND THE LIGHTS TURN ON WHEN THE TEMPERATURE DROPS TO 15°F. WIRE THERMOSTAT SO THAT ITS CONTACT IS PARALLEL THE CONTACT IN THE PHOTOELECTRIC CELL.
10. INSTALL #6 AWG COPPER MAIN BONDING JUMPER, OR SIZE PER NEC TABLE 250.102 (C)(1), WHICHEVER IS LARGER.
11. INSTALLATION MUST COMPLY WITH NEC 250.24(C) AND 250.24 (C) EXCEPTION WHEN MORE THAN ONE PANELBOARD IS PRESENT.
12. INSTALL #6 AWG COPPER GROUNDING ELECTRODE CONDUCTOR (GEC), OR SIZE PER NEC TABLE 250.66, WHICHEVER IS LARGER. USE THE SAME METHOD TO SIZE GROUND ROD BONDING JUMPER.
13. MAXIMUM METER HEIGHT SHALL NOT EXCEED 64" FROM FINISHED GRADE TO CENTER OF THE METER SOCKET COVER.
14. WHEN SHOWN ON THE PLANS, INSTALL ENCLOSURE HEATER WITH INTEGRAL THERMOSTAT, SET TO ENERGIZE THE HEATER AT TEMPERATURES AT OR BELOW 32-DEG F. SCHNEIDER ELECTRIC CAT. NO. NSYCRP1W230VTVC, NVENT-HOFFMAN CAT. NO. DAH4002B, OR APPROVED EQUAL.
15. BOND SERVICE CONDUIT GROUNDING BUSHING TO SUPPLY-SIDE BONDING JUMPER. BOND LOAD CONDUIT GROUNDING BUSHINGS TO ASSOCIATED EQUIPMENT GROUNDING CONDUCTORS (EGC'S).

INSTALLATION NOTES:

1. INSTALL TYPE 3 LOAD CENTER POLES OF SUFFICIENT LENGTH TO PROVIDE THE FOLLOWING MINIMUM GROUND TO SERVICE CONDUCTOR CLEARANCE:
   A. 18.5 FEET, IF THE SERVICE CONDUCTORS ARE LOCATED ABOVE ROADWAYS OR PARKING AREAS.
   B. 26.5 FEET, IF THE SERVICE CONDUCTORS ARE LOCATED WITHIN 20 FEET OF A RAILROAD TRACK.
   C. 18.5 FEET IN ALL OTHER CIRCUMSTANCES.
2. SET THE BUTT END OF TYPE 3 LOAD CENTER POLES TO THE FOLLOWING MINIMUM DEPTH:
   A. 10 PERCENT OF ITS LENGTH PLUS 24 INCHES, OR 60 INCHES, WHICHEVER IS GREATER, IF IT IS INSTALLED IN EARTH OTHER THAN SOLID ROCK OR MUSKEG.
   B. 10 PERCENT OF ITS LENGTH, OR 48 INCHES, WHICHEVER IS GREATER, IF IT IS INSTALLED IN SOLID ROCK.
   C. CONSIDER MUSKEG TO BE AIR, AND SET THE BUTT ENDS TO THE DEPTH GIVEN IN A OR B, WHICHEVER APPLIES, IN THE UNDERLYING EARTH OR ROCK.

   WHENEVER MORE THAN 24 INCHES OF EARTH OVERLAYS ROCK, OR THE DIAMETER OF THE DRILLED HOLE IN ROCK EXCEEDS TWICE THE DIAMETER OF THE POLE AT THE GROUND LINE, CONSIDER THE INSTALLATION AS EARTH.
3. ATTACH ALL CONDUITS TO THE POSTS AND POLES USING TWO HOLE RIGID METAL CONDUIT STRAPS LOCATED ON 24 INCHES MAXIMUM CENTERS.
4. ATTACH ALL GROUND CONDUCTORS TO THE POSTS AND POLES USING CABLE STAPLES LOCATED ON 12 INCH CENTERS. MAKE ALL GROUNDING CONDUCTORS CONTINUOUS. USE #6 AWG CU GEC FOR 100A SERVICE AND #4 AWG CU GEC FOR 200 AMP SERVICE.
5. ALL POSTS, POLES, AND STRUTS SHALL BE COMMERCIALLY TREATED AND SHALL MEET THE REQUIREMENTS SET FORTH IN ALASKA DOT&PF SSHC SECTIONS 713 & 714.
6. ALL ELECTRICAL ENCLOSURES SHALL FEATURE MEANS FOR SEALING AND LOCKING ALL DOORS AND ACCESS COVERS THAT MAY CONTAIN EXPOSED ENERGIZED ELECTRICAL PARTS.

UTILITY REQUIREMENTS:

1. UNLESS OTHERWISE NOTED, OR SHOWN ON PLANS, USE THE SINGLE-POST TYPE 2 "STANDARD" LOAD CENTER IN ALL LOCATIONS EXCEPT WHERE THE SERVING UTILITY REQUIRES THE TWO-POST TYPE 2 "ALTERNATIVE" LOAD CENTER. REFER TO THE LOAD CENTER SUMMARY FOR WHICH TO INSTALL.
2. THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT INSTALLED BY THE CONTRACTOR VARIES BY UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A PULL ROPE IN THE SERVICE CONDUIT AND A CAP ON THE BURIED END: MARK THE BURIED END WITH A 2"x6" WOOD STAKE. SEE THE LOAD CENTER SUMMARIES FOR THE FOLLOWING INFORMATION.
   A. STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
   B. WHERE THE CONTRACTOR TERMINATES THE SERVICE ENTRANCE CONDUIT.
   C. THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).
   D. THE MAXIMUM AND MINIMUM DISTANCES ALLOWED BETWEEN THE TYPE-3 LOAD CENTER POLE AND UTILITY POLE TO WHICH THE AERIAL DROP IS CONNECTED.
3. VERTICAL CLEARANCE FOR SERVICE-DROP CONDUCTORS IN ACCORDANCE WITH NEC 230.24(B).

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

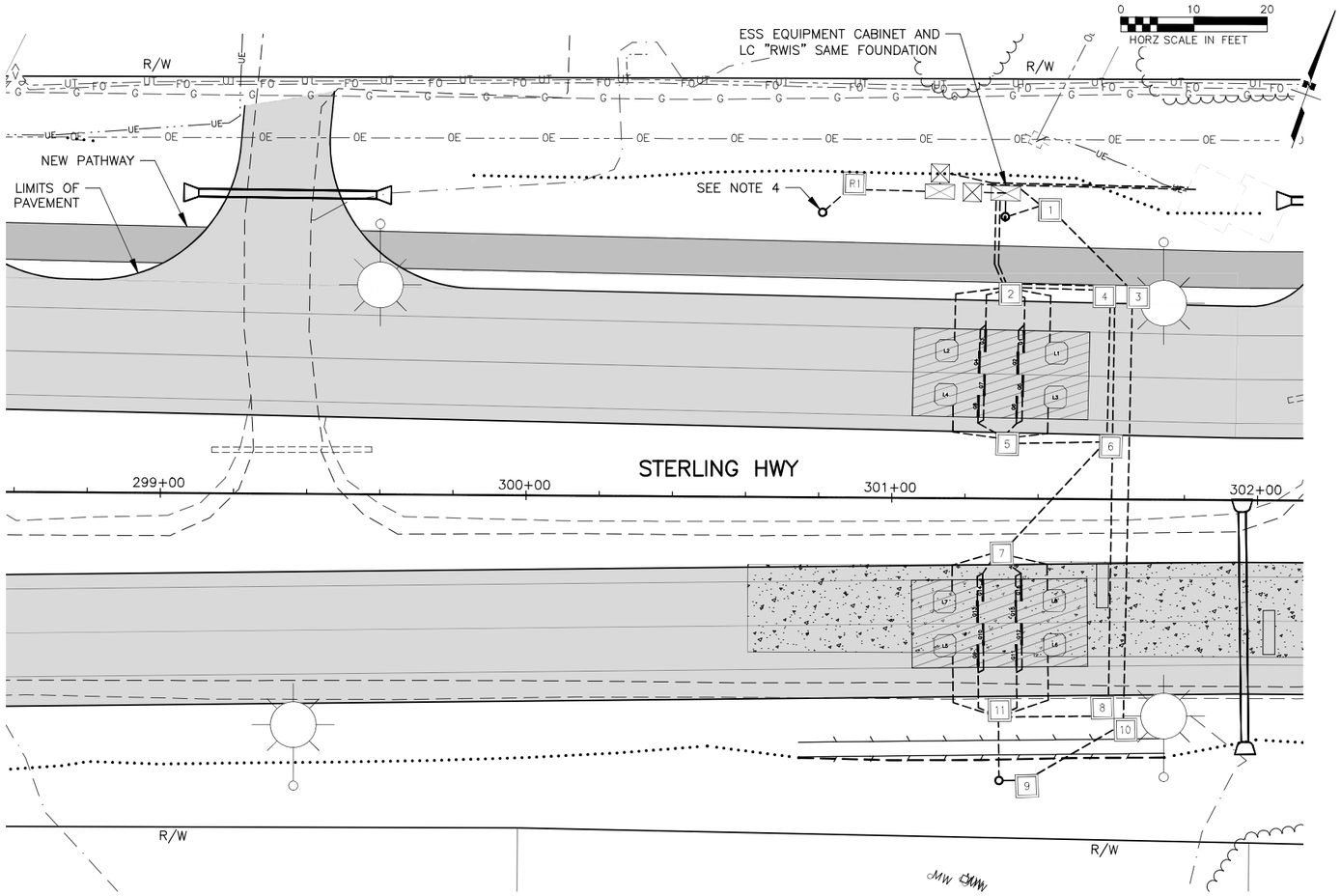
STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

RWIS TYPE 2 AND TYPE 3 LOAD CENTER DETAILS

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL
SCALE #" = #"
DATE TIME 6/20/2025 6:28 PM
DRAWING LOCATION Z:\PROJECTS\0007739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K23_RWIS HINGED POLE DETAIL.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K24	K26



RWIS SITE

STA 301+00

GENERAL NOTES:

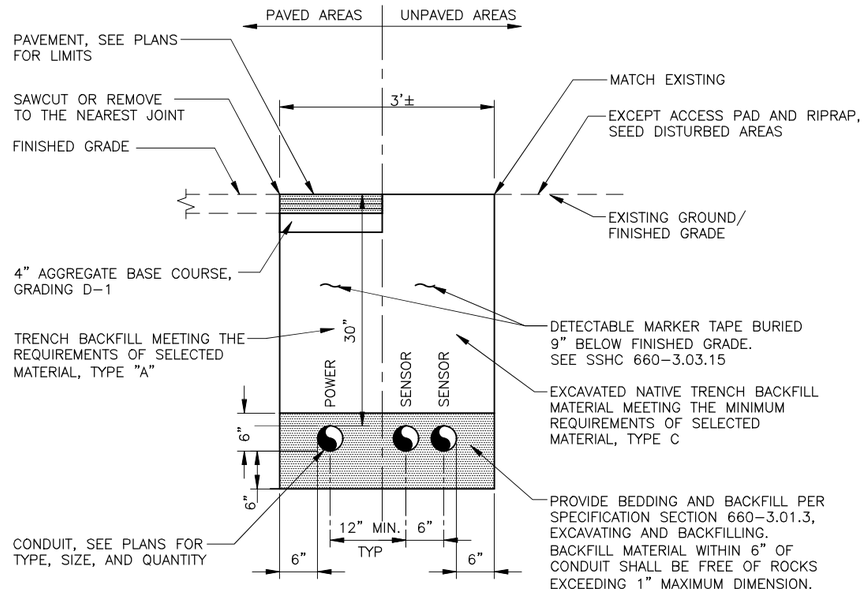
1. UNLESS OTHERWISE NOTED, INSTALL ONE BARE 1–1c#8 GROUND WIRE IN ALL CONDUITS.
2. FOUNDATIONS CENTERED ON POINT AND APPROXIMATELY PARALLEL W/ PAVEMENT AS SHOWN SHEETS __ AND __. COORDINATE SERVICE ENTRANCE W/ HEA PRIOR TO 4" CASING STUB–OUT AND PLACEMENT OF ESS EQUIPMENT RACK FOUNDATIONS AS SHOWN ON SHEET K17.
3. CONDUIT ROUTING SCHEMATIC, SEE SHEET K25 FOR UNDERGROUND CONDUIT.
4. ESS HINGED (TIPDOWN) POLE IS FIXED BOLT FOUNDATION. HEIGHT IS NOMINALLY 38–FT W/ ANEMOMETER AND LIGHTNING ARRESTOR CONTROLLING HEIGHT. POLE SHALL TIP DOWN W/ TALLEST SIDE TO WEST.

RWIS SITE LOAD–SIDE CIRCUIT SCHEDULE CABLE TAGS & NOTES

◇1	3" RMC:	2–SENSOR CABLE	VTP, PTS
		5–SENSOR CABLE	ANM, RH/T/P/BP, PWS, PSSS, NIPTS
		2–CAT6a OSP	CAM/PTZ
		1–RG–6 OSP	CM ANTENNA
◇2	3" RMC:	5–SENSOR CABLE	ANM, RH/T/P/BP, PWS, PSSS, NIPTS
		2–CAT6a OSP	CAM/PTZ
		1–RG–6 OSP	CM ANTENNA
◇3	2" RMC:	2–SENSOR CABLE	VTP, PTS
◇4	1" RMC:	2–SENSOR CABLE	VTP, PTS

ESS EQUIPMENT LOCATION TABLE

POINT	STATION	OFFSET	DESCRIPTION
RWIS			ESS POLE
R1			TYPE II J–BOX
TG			PAVEMENT SENSOR
ESS			ESS EQUIPMENT RACK, SEE GENERAL NOTE 2
LC			LOAD CENTER "B", SEE GENERAL NOTE 2



TRENCH DETAILS

NTS

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346–2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94

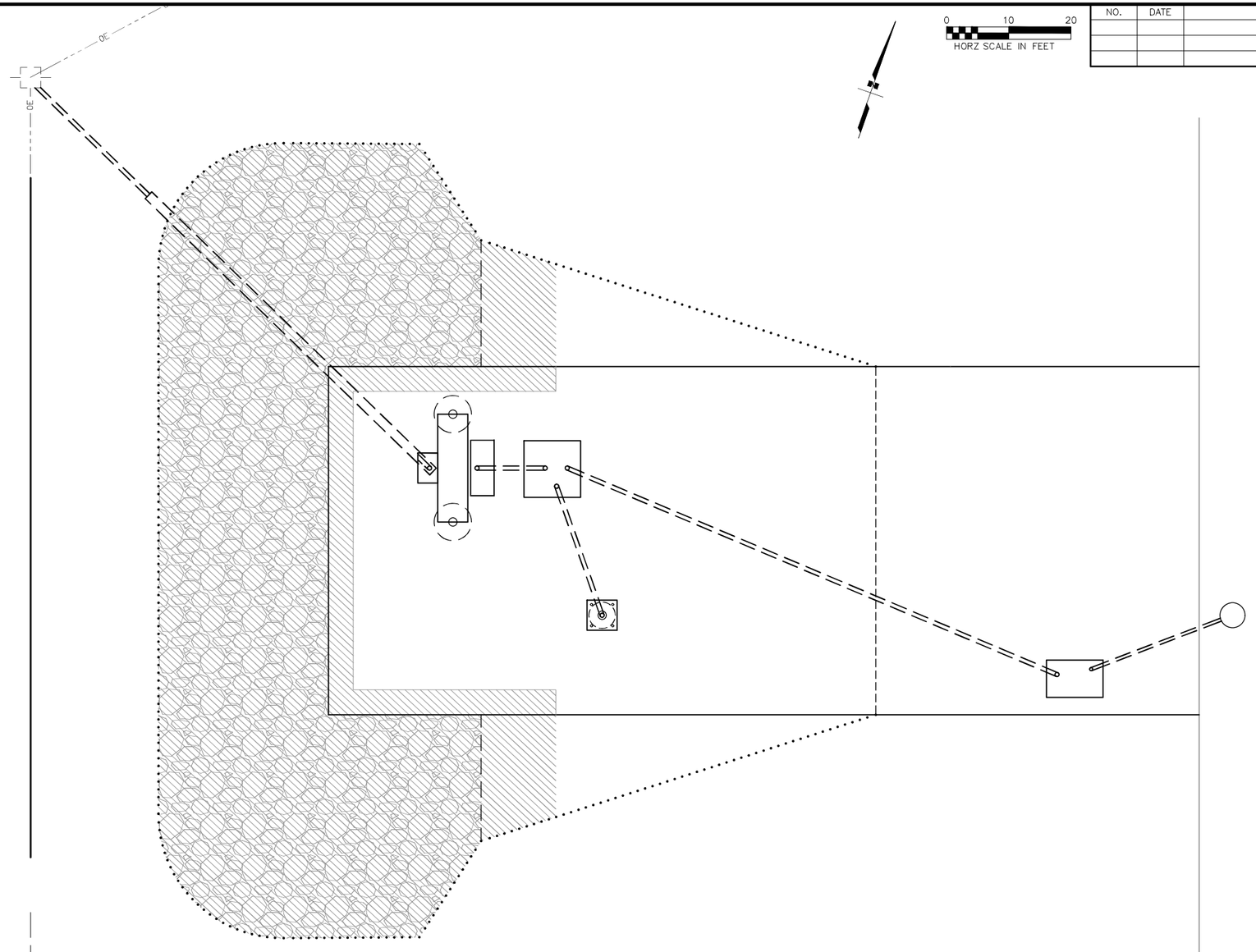
RWIS PLAN

DESIGNED BY BCL
CHECKED BY
DRAFTED BY
SCALE #" = 1'-#"
DATE 6/20/2025 TIME 6:29 PM
DRAWING LOCATION Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K24_RWIS PLAN.DWG

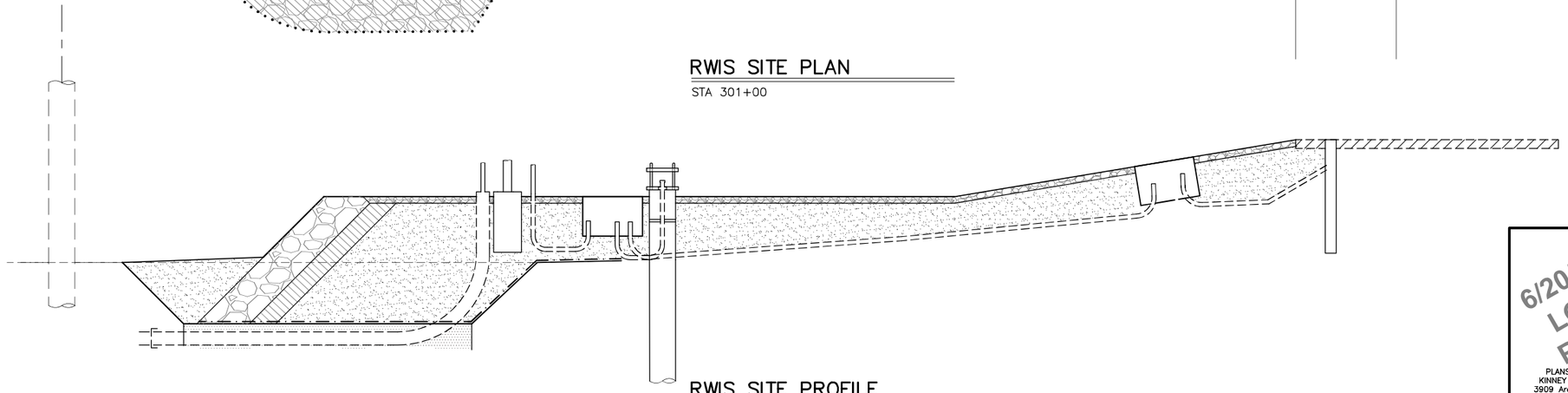
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K25	K26

0 10 20
HORZ SCALE IN FEET



RWIS SITE PLAN
STA 301+00



RWIS SITE PROFILE
STA 301+00

NOTES:

1. LOCATE ACCESS PAD AS SHOWN IN THE PLANS.
2. PROVIDE 4" MINIMUM RMC OR PVC CASING 6" MINIMUM BELOW RIPRAP. STUB OUT CASING AND EXTEND 4' MIN PAST RIPRAP. CAP AND STAKE END FOR HEA USE.
3. DRIVE POLE THROUGH ESTABLISHED PAD ACCORDING TO SHEET __.
4. GRADE ACCESS PAD TO DRAIN AWAY FROM ROAD.
5. CONTRACTOR SHALL SEED ALL DISTURBED GROUND BEYOND THE SLOPES IN ACCORDANCE WITH SECTION 618.

6/20/2025
LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

RWIS ACCESS PAD
PLAN AND PROFILE

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:30 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K25_RWIS PAD PLAN.DWG

NO.	DATE	REVISION

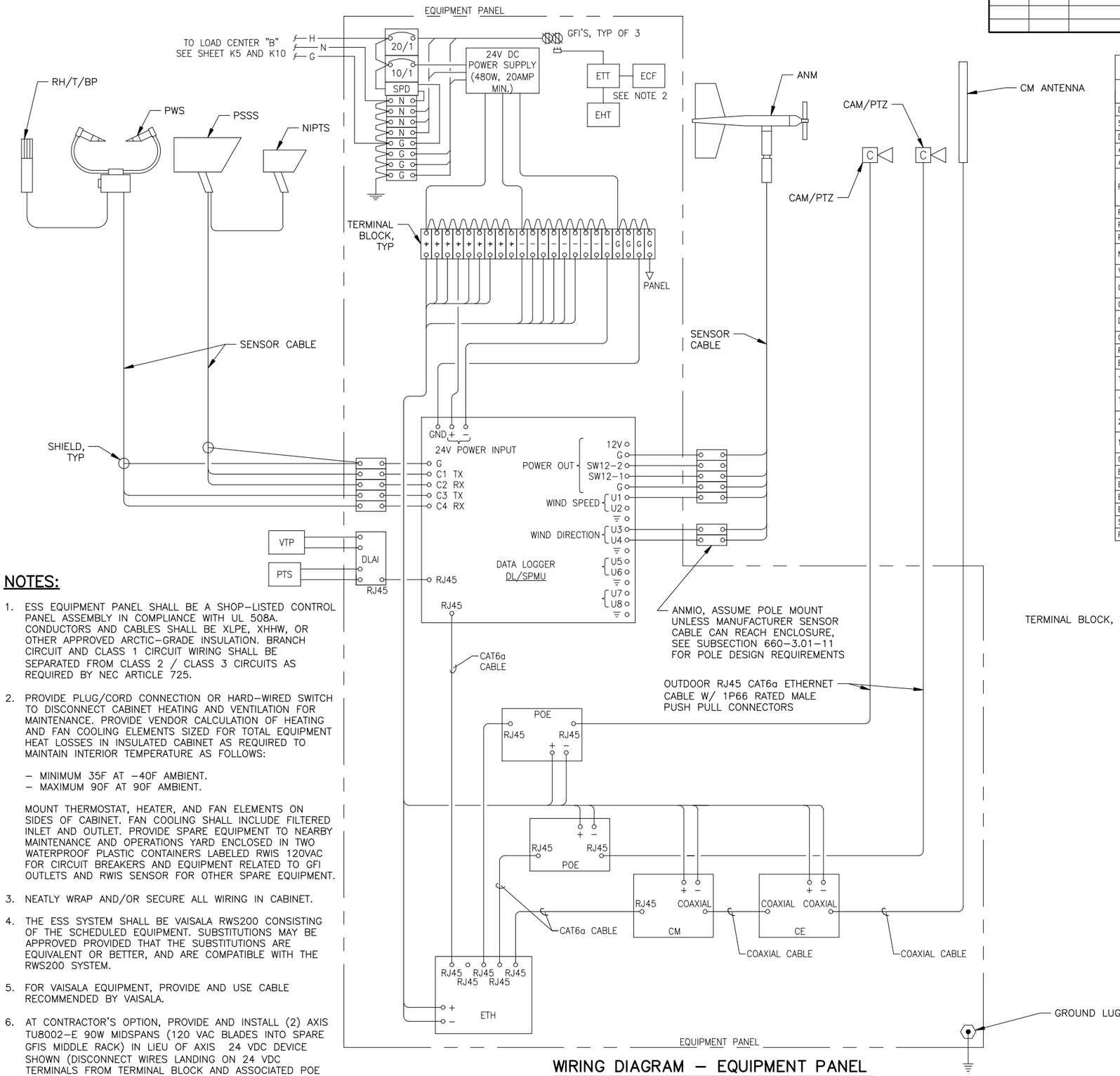
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A33026/CFHWY00130	2026	K26	K26

DESIGNED BY ---
CHECKED BY ---
DRAFTED BY BCL

SCALE #" = #"

DATE 6/20/2025 TIME 6:30 PM

DRAWING LOCATION
Z:\PROJECTS\000739_STERLING SAFETY CORRIDOR IMPROVEMENTS MP 82.5 TO 94 PDB\DWGS\C\SHEETS\00130_K26_RWIS WIRE DIAG.DWG



WIRING DIAGRAM – EQUIPMENT PANEL

NTS

NOTES:

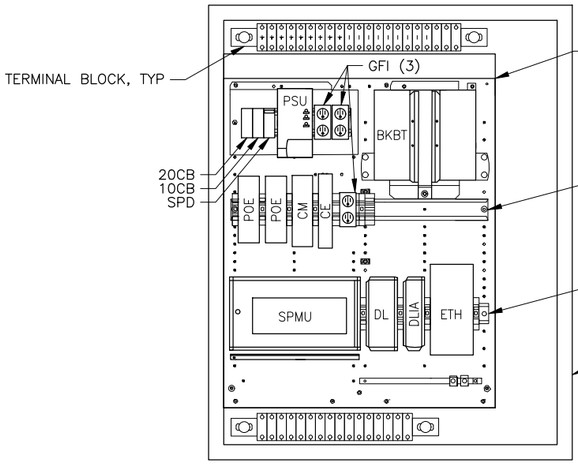
1. ESS EQUIPMENT PANEL SHALL BE A SHOP-LISTED CONTROL PANEL ASSEMBLY IN COMPLIANCE WITH UL 508A. CONDUCTORS AND CABLES SHALL BE XLPE, XHHW, OR OTHER APPROVED ARCTIC-GRADE INSULATION. BRANCH CIRCUIT AND CLASS 1 CIRCUIT WIRING SHALL BE SEPARATED FROM CLASS 2 / CLASS 3 CIRCUITS AS REQUIRED BY NEC ARTICLE 725.
2. PROVIDE PLUG/CORD CONNECTION OR HARD-WIRED SWITCH TO DISCONNECT CABINET HEATING AND VENTILATION FOR MAINTENANCE. PROVIDE VENDOR CALCULATION OF HEATING AND FAN COOLING ELEMENTS SIZED FOR TOTAL EQUIPMENT HEAT LOSSES IN INSULATED CABINET AS REQUIRED TO MAINTAIN INTERIOR TEMPERATURE AS FOLLOWS:

   – MINIMUM 35F AT –40F AMBIENT.
   – MAXIMUM 90F AT 90F AMBIENT.

   MOUNT THERMOSTAT, HEATER, AND FAN ELEMENTS ON SIDES OF CABINET. FAN COOLING SHALL INCLUDE FILTERED INLET AND OUTLET. PROVIDE SPARE EQUIPMENT TO NEARBY MAINTENANCE AND OPERATIONS YARD ENCLOSED IN TWO WATERPROOF PLASTIC CONTAINERS LABELED RWIS 120VAC FOR CIRCUIT BREAKERS AND EQUIPMENT RELATED TO GFI OUTLETS AND RWIS SENSOR FOR OTHER SPARE EQUIPMENT.
3. NEATLY WRAP AND/OR SECURE ALL WIRING IN CABINET.
4. THE ESS SYSTEM SHALL BE VAISALA RWS200 CONSISTING OF THE SCHEDULED EQUIPMENT. SUBSTITUTIONS MAY BE APPROVED PROVIDED THAT THE SUBSTITUTIONS ARE EQUIVALENT OR BETTER, AND ARE COMPATIBLE WITH THE RWS200 SYSTEM.
5. FOR VAISALA EQUIPMENT, PROVIDE AND USE CABLE RECOMMENDED BY VAISALA.
6. AT CONTRACTOR'S OPTION, PROVIDE AND INSTALL (2) AXIS TU8002-E 90W MIDSPANS (120 VAC BLADES INTO SPARE GFIS MIDDLE RACK) IN LIEU OF AXIS 24 VDC DEVICE SHOWN (DISCONNECT WIRES LANDING ON 24 VDC TERMINALS FROM TERMINAL BLOCK AND ASSOCIATED POE DEVICES).

ESS EQUIPMENT SCHEDULE

TAG	ITEM	MANUFACTURER /MODEL	QUANTITY	LOAD (MAX)	
				VDC	mA
DL	DATA LOGGER	VAISALA DMU703	1	24	250
SPMU	SENSOR POWER MANAGEMENT UNIT	VAISALA PMU701	1	24	10000 (MAX)
DLAI	DATA LOGGER ANALOG INTERFACE	VAISALA DRI701	1	24	43
ANMIO	ANEMOMETER INTERFACE	R.M. YOUNG MODEL 05603C	1	12	5
ANM	ANEMOMETER	R.M. YOUNG MODEL 05106	1	15	40
RH/T/BP	RELATIVE HUMIDITY	VAISALA HMP155	1 (0-5VDC)	12 (HMP155 HEATER)	154
	TEMPERATURE SENSOR	VAISALA HMP155	1 (0-5VDC)		
	BAROMETRIC PRESSURE	VAISALA PTB110	1		
PWS	PRESENT WEATHER SENSOR	VAISALA PWD12	1	24	2550
PTS	IN-PAVEMENT TEMPERATURE SENSOR	VAISALA DRS511	1	0	0
PSSS	PAVEMENT SURFACE STATE SENSOR	VAISALA DSC211	1	12	333
NIPTS	NON-INTRUSIVE PAVEMENT TEMPERATURE SENSOR	VAISALA DST111	1	24	2.1
VTP	VERTICAL TEMPERATURE PROBE	VAISALA FINMEAS TPS10	1	12	0
CM	CELLULAR MODEM WITH REMOTE DIRECTIONAL ANTENNA	SIERRA WIRELESS RV50	1	24	300
CE	CELL EXTENDER	CLEAR RF WRE5500-S	1	13.5	500
DL/ENC	DATA LOGGER CABINET ENCLOSURE	HOFFMAN A30H2412SSLP WITH LOCKABLE HASP	1	0	0
CAM/PTZ	PTZ CAMERA	AXIS Q6075-E PTZ	2	57 (PoE)	1542
POE	POE INJECTOR	AXIS T8144 60W, SEE NOTE 6	2	20	3600
ETH	ETHERNET SWITCH	CTC UNION IGS-500	1	24	142
T/BLK	DATA LOGGER CABINET SECTIONAL TERMINAL BLOCKS	SCHNEIDER LINERGY TR NYSTRV352	AS REQUIRED	0	0
T/BLK/G	DATA LOGGER CABINET SECTIONAL TERMINAL BLOCKS (GROUNDING)	SCHNEIDER LINERGY TR NYSTRV352PE	AS REQUIRED	0	0
20CB	20A CIRCUIT BREAKER	EATON FAZ-C20-1-NA	1	0	0
10CB	10A CIRCUIT BREAKER (1 SPARE)	EATON FAZ-C10-1-NA	3	0	0
GFI	GFI DUPLEX RECEPTACLE	GENERIC / UL LISTED	3	0	0
ETT	ENCLOSURE THERMOSTAT	GENERIC / UL LISTED	1	0	0
EHT	ENCLOSURE HEATER	GENERIC / UL LISTED	1	120V AC	8000 (MAX)
ECF	ENCLOSURE COOLING FAN	GENERIC / UL LISTED	1	120V AC	1000 (MAX)
BKBT	BACKUP BATTERY (VAISALLA EQUIPMENT)	VAISALA 247257SP	1	0	0
SPD	SURGE PROTECTIVE DEVICE	TRANSTECTOR #1104-15-000	1	0	0
PSU	DC POWER SUPPLY (1 SPARE)	WEIDMULLER PRO ECO 480W	2	24	20000



DETAIL – EQUIPMENT PANEL

NTS

6/20/2025 LOCAL REVIEW

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 Arctic Blvd, Suite 400
ANCHORAGE, AK 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STERLING SAFETY
CORRIDOR IMPROVEMENTS
MP 82.5 TO 94

RWIS WIRING DIAGRAM