

JKH
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DESIGNED BY
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SCALE
N/A
DATE
1/5/2023 12:57 PM
DRAWING LOCATION
W:\PROJECTS\COHOE LOOP MP 0-9.7 PP - CFHWY00490\PLANSET\00490_A01NA02_ITL.DWG

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

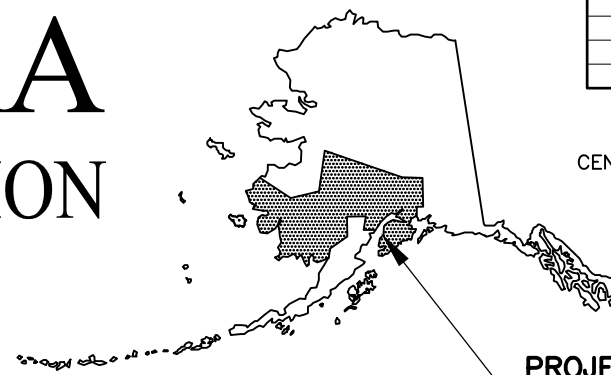
PROPOSED HIGHWAY PROJECT

COHOE LOOP ROAD MP 0-9.7

PAVEMENT PRESERVATION

PROJECT NO. 0001645/CFHWY00490

RECLAIMING, PAVING, SEALING, SIGNING, AND STRIPING

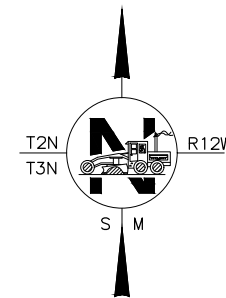
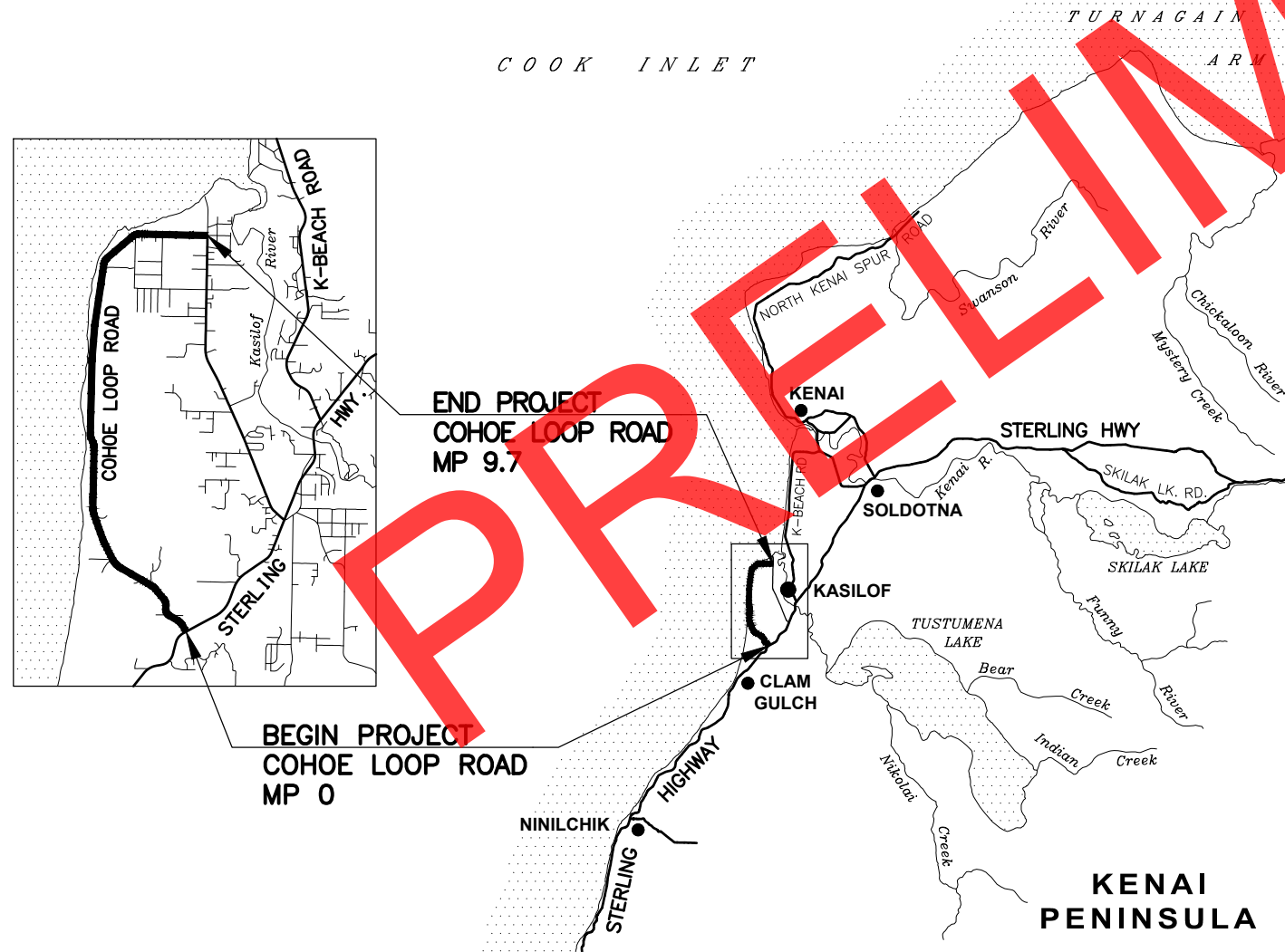


NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0001645/CFHWY00490	2023	A1	39
ROUTE ID	2141017X000	MILEPOINT	0.000 - 9.695	
LATITUDE	60.325614	LONGITUDE	-151.380286	

PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
COHOE LOOP MP 0-9.7	24-28 FT	9.7 MILES

DESIGN DESIGNATIONS			
ROADWAY	FUNCTIONAL CLASS	AADT (2019)	DESIGN SPEED (MPH)
COHOE LOOP ROAD	MINOR COLLECTOR, RURAL	129	45



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

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	A2	A5

INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A3	LEGEND
A4-A5	SURVEY CONTROL SHEETS
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D4	SUMMARY TABLES
E1-E3	DETAIL SHEETS
F1-F20	PLAN AND PROFILE SHEETS
H1-H5	STRIPING AND SIGNING

THE FOLLOWING CENTRAL REGION STANDARD DETAILS APPLY TO THIS PROJECT:

CR-T-01.20

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.

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

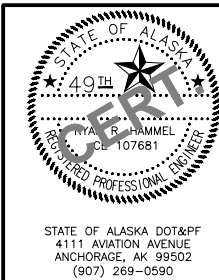
C-04.12, C-05.20, C-06.00
D-01.02, D-04.22, D-30.11, D-31.01
G-00.05, G-05.11S, G-05.11W, G-10.21, G-14.01, G-20.12
I-81.00
M-20.15, M-23.13
S-00.12, S-05.02, S-31.02
T-21.04

ABBREVIATIONS:

ASP = ALASKA STANDARD PLANS
AVE = AVENUE
BOP = BEGINNING OF PROJECT
CABC = CRUSHED ASPHALT BASE COURSE
EOP = EDGE OF PAVEMENT
ETW = EDGE OF TRAVELED WAY
HMA = HOT MIX ASPHALT
RD = ROAD
ROW = RIGHT OF WAY
STA = STATION
TYP = TYPICAL

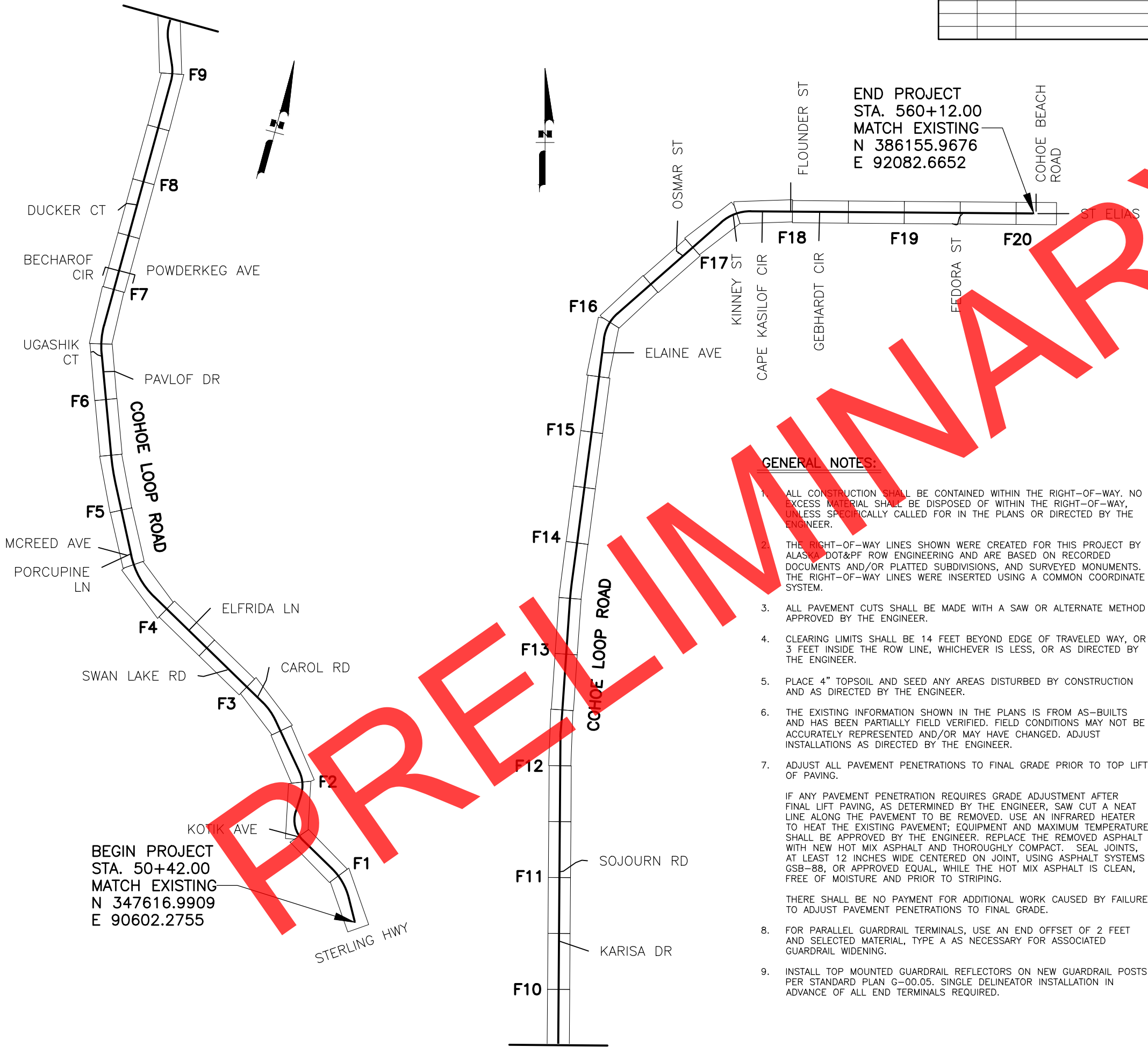
SPECIFICATIONS:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2020 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION**

SHEET LAYOUT, INDEX, AND
GENERAL NOTES



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	
UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP	
DETECTABLE WARNING TILE	
BRIDGE	
TUNNEL	
GUARDRAIL	
END & PARALLEL END SECTIONS	
ROADWAY OBLITERATION	
FENCE	
STONE FENCE	
NOISE BARRIER	
RETAINING WALL	
HEADWALL & WINGWALL	
BOTTOM OF DITCH	
SPECIAL DITCH	
FLAT BOTTOM DITCH	
BERM	
RIPRAP	
BOULDER OR BOULDERS	
PRIVATE SIGN, MAILBOX	
POST, BOLLARD	
CUT-BACK ASPHALT SAND SEAL	

UTILITIES

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

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
ELECTROLIER	
HIGHTOWER	HT#
SIGNAL POLE WITH MASTARM	14
PEDESTRIAN PUSH BUTTON & SIGNAL	
VEHICULAR SIGNAL	
VEHICULAR SIGNAL LEFT & RIGHT	
OPTICAL, CAMERA, RADAR, AND GPS DETECTOR	
LOOP DETECTOR	
COMMUNICATION ANTENNA	
MASTARM BEACON	
RURAL & SCHOOL ZONE BEACON	
LOOP DETECTOR CONDUIT	
SIGNAL CONDUIT	TR
LIGHTING CONDUIT	LTG
SIGNAL & LIGHTING CONDUIT	T/L
CONDUIT BORING	
CONDUIT SIZE IN INCHES	2" 3C4 1" 3C4 2" 1-3C4 CKT BA12 CKT BA13
INTERCONNECT	1/C
SIGN POST	

PAVEMENT MARKINGS

PROPOSED
TRAFFIC PROJECT CENTERLINE
8" & 4" WHITE SOLID STRIPE
4" WHITE SKIP STRIPE 10' STRIPES AND 30' SPACES
8" WHITE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP 1" STRIPES AND 3' SPACES
8" & 4" YELLOW SOLID STRIPE
4" YELLOW SKIP STRIPE 10' STRIPES AND 30' SPACES
STRIPING CHANGE STATION INTERVAL
2' CROSSWALK OR STOPBAR
LADDER CROSSWALK LAYOUT 2' WIDE RUNGS WITH 2' SPACES ALIGNED TO AVOID TIRE PATHS
TYPICAL PAINTED MEDIAN

RIGHT-OF-WAY

RECOVERED	SET THIS PROJECT
FEDERAL GOV'T SURVEY MONUMENT	
GOVT 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 R3W R2W
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	

TOPOGRAPHY

EXISTING	PROPOSED
LAKE OR POND, WETLANDS	
TREE (CONIFER/DECIDUOUS) TREELINE (EDGE OF VEGETATION)	
PLANTER	
BUILDING OR FOUNDATION	
CONTOUR, MAJOR OR MINOR	520
DRAINAGE FLOW	
CREEK (CENTERLINE)	
RIVER (EDGE OF WATER)	



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**COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION**

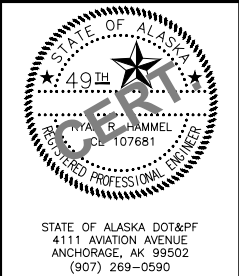
LEGEND

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	A4	A5

PRELIMINARY

SURVEY CONTROL SHEET

PLACE HOLDER



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COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION

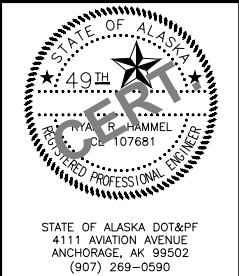
SURVEY CONTROL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	A5	A5

PRELIMINARY

SURVEY CONTROL SHEET

PLACE HOLDER

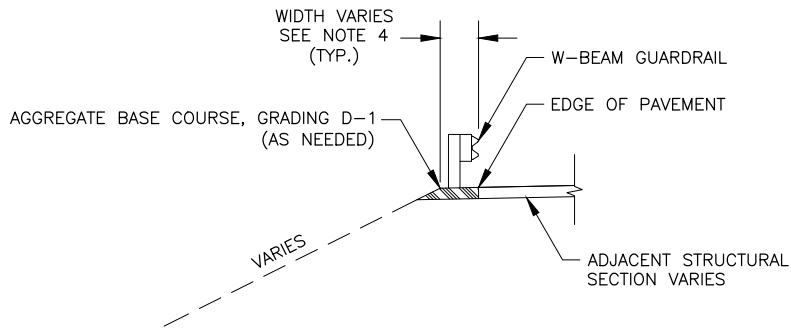


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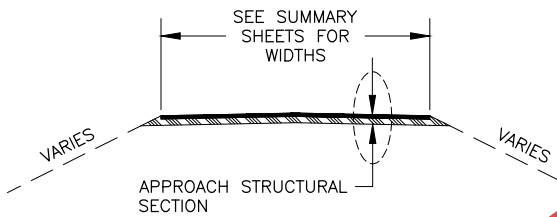
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION

SURVEY CONTROL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	B1	B1



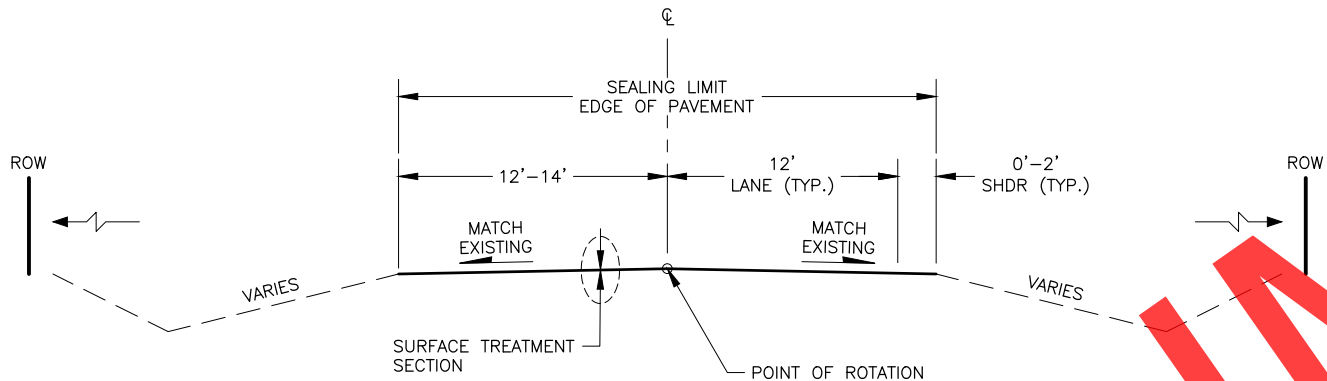
***GUARDRAIL (TYP.)**
SEE SUMMARY TABLE
FOR LOCATIONS



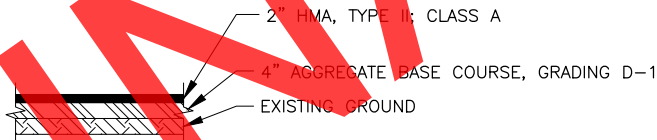
COHOE LOOP ROAD APPROACH
SEE SUMMARY SHEETS FOR
LOCATIONS

NOTES:

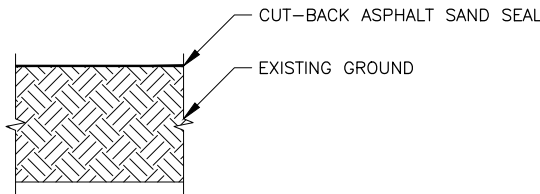
1. FINISHED ROADWAY CROSS SLOPES SHALL BE CROWNED AT 2% IN TANGENT SECTIONS AND MATCH EXISTING SUPERELEVATION. ADJUST GRADES AS NECESSARY TO MAINTAIN THE SUPERELEVATION THROUGH THE CURVES.
2. CONSTRUCT HMA ACROSS THE FULL WIDTH OF LANE AND SHOULDER. THE WIDTH OF PAVEMENT IMPROVEMENTS MAY BE ADJUSTED AS NECESSARY AND AS APPROVED BY THE ENGINEER.
3. SHAPE RECLAIMED MATERIAL AT THE EDGE OF PAVEMENT FOR SHOULDER BUTTRESSING AND GUARDRAIL INSTALLATION WHEN POSSIBLE. USE AGGREGATE BASE COURSE GRADING D-1 AS NEEDED WHEN EXCESS RECLAIM IS NOT AVAILABLE. ENSURE THERE IS NO DROP AT THE PAVEMENT'S EDGE WITHIN 48 HOURS OF PLACING PAVEMENT.
4. REFER TO GUARDRAIL SUMMARY TABLE IN D-SHEETS FOR ASSOCIATED GUARDRAIL CASE TYPE.



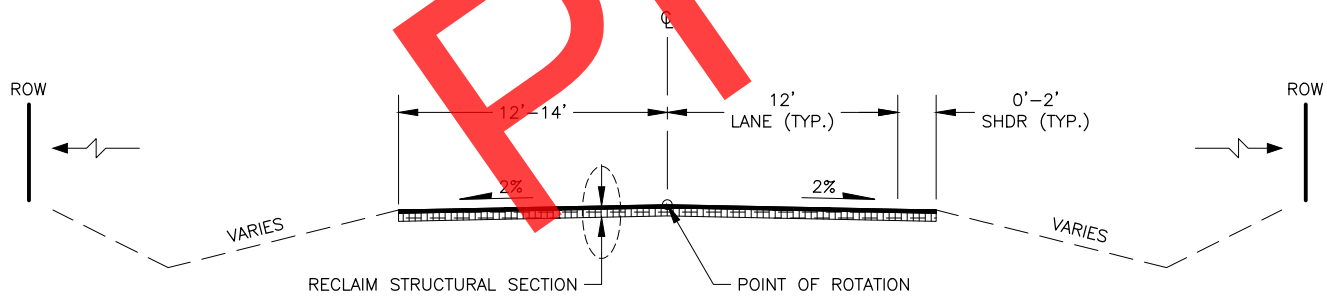
COHOE LOOP ROAD SAND SEAL
B.O.P. TO STA. 211+50



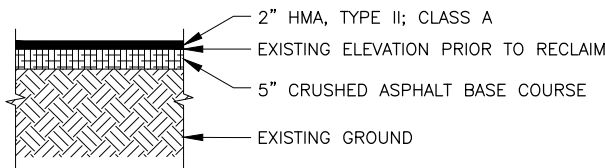
APPROACH STRUCTURAL SECTION



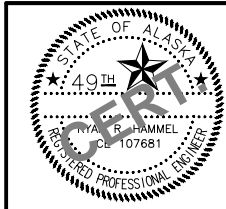
SURFACE TREATMENT SECTION



COHOE LOOP ROAD RECLAIM
STA. 211+50 TO E.O.P.



RECLAIM STRUCTURAL SECTION



STATE OF ALASKA DOT&PF
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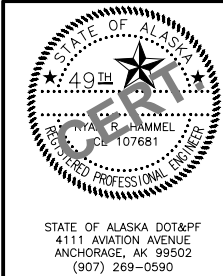
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION**

TYPICAL SECTIONS

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201.0001.0000	CLEARING	ACRE	4.5
202.0004.0000	REMOVAL OF CULVERT PIPE	L.F.	231
202.0010.0000	SINGLE MAILBOX INSTALLATION	EACH	4
202.0012.0000	DOUBLE MAILBOX INSTALLATION	EACH	1
202.2013.0000	REMOVE FUGITIVE MATERIALS	L.F.	1,276
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	700
308.0001.0000	CRUSHED ASPHALT BASE COURSE	S.Y.	100,000
401.0001.002A	HMA, TYPE II; CLASS A	TON	11,550
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40 E	TON	613
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	C.S.	ALL REQ'D
401.2022.0000	COMBINED PRICE ADJUSTMENT	C.S.	ALL REQ'D
404.2000.0000	CUT-BACK ASPHALT SAND SEAL	S.Y.	50,200
501.2007.0001	HEADWALL, TYPE I	EACH	2
501.2007.0002	HEADWALL, TYPE II	EACH	1
603.0001.0054	CSP 54 INCH	L.F.	80
603.0001.0066	CSP 66 INCH	L.F.	132
603.2017.0000	CULVERT CLEANING	L.F.	160
606.0001.0000	W-BEAM GUARDRAIL	L.F.	887.5
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	L.F.	1,276
606.0013.0000	PARALLEL GUARDRAIL TERMINAL	EACH	5
610.0002.0000	DITCH LINING	TON	90
611.0002.0003	RIPRAP, CLASS III	TON	380
615.0001.0000	STANDARD SIGN	S.F.	43.5
615.0006.0000	SALVAGE SIGN	EACH	8
618.0002.0000	SEEDING	LB	46
620.0001.0000	TOPSOIL	S.Y.	2,350
639.2000.0000	APPROACH	EACH	70
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQ'D
641.0005.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	C.S.	ALL REQ'D
641.0006.0000	WITHHOLDING	C.S.	ALL REQ'D
641.0007.0000	SWPPP MANAGER	L.S.	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	L.S.	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HOURL	40
642.2008.0000	PASSING SIGHT DISTANCE MEASUREMENT	STA	1,021
643.0002.0000	TRAFFIC MAINTENANCE	L.S.	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	L.S.	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	C.S.	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	C.S.	ALL REQ'D
643.0032.0000	FLAGGING	C.S.	ALL REQ'D

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
644.0001.0000	FIELD OFFICE	L.S.	ALL REQ'D
644.0015.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
644.2004.0000	ENGINEERING COMMUNICATIONS	C.S.	ALL REQ'D
646.0001.0000	CPM SCHEDULING	L.S.	ALL REQ'D
647.2002.0000	BACKHOE, 4WD, 1 CY BUCKET, 75-HP MINIMUM, 15 FT DEPTH	C.S.	ALL REQ'D
670.0001.0000	PAINTED TRAFFIC MARKINGS	L.S.	ALL REQ'D
682.2000.0000	VAC-TRUCK POTHOLE	C.S.	ALL REQ'D

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	UNIT
203.0006.0000	BORROW, TYPE A	144 LB./C.F.
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB./C.F.
401.0001.002A	HMA, TYPE II; CLASS A	151 L.B./C.F.
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40 E	5.3% OF TOTAL WEIGHT OF 401.0001.002A
610.0001.0000	DITCH LINING	110 LB./C.F.
611.0002.0003	RIPRAP, CLASS III	108 LB./C.F.
618.0002.0000	SEEDING	0.0015 LB./S.F.
618.0003.0000	WATER FOR SEEDING	1 GAL/S.F.



JKH
RRH
JKH

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
1" = 1'

DATE
1/5/2023 1:20 PM

DRAWING LOCATION
W:\PROJECTS\COHOE LOOP MP 0-9.7 PP - CFHWY00490\PLANSET\00490_D01_SUM.DWG

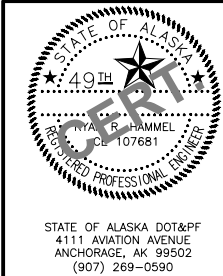
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	D2	D4

202.0004.0000, 603.0001.0054, 603.0001.0066, 603.2017.0000 - REMOVAL OF CULVERT PIPE, CSP 54 INCH, CSP 66 INCH, CULVERT CLEANING										
SHEET	PIPE NO.	INLET		OUTLET		202.0004.0000	603.0001.0054	603.0001.0066	603.2017.0000	REMARKS
		STATION	OFFSET	STATION	OFFSET	REMOVAL OF CULVERT PIPE (LF)	CSP 54 INCH (LF)	CSP 66 INCH (LF)	CULVERT CLEANING (LF)	
F1	--	59+49	RT	59+49	LT	--	--	--	89.5	DIAMETER=24"
F3	--	109+40	RT	109+44	LT	--	--	--	70.5	DIAMETER=24"
F8	P08-1	243+76	RT	243+81	LT	132.5	--	132.0	--	SEE DETAIL
F9	P09-1	262+58	RT	262+53	LT	90.5	80.0	--	--	SEE DETAIL
F9	--	262+99	LT	262+59	LT	8.0	--	--	--	SEE DETAIL, PIPE LOCATION AND LENGTH OF REMOVAL ARE APPROXIMATE. ADJUST AS NEEDED BASED ON FIELD CONDITIONS.
TOTAL:						231.0	80.0	132.0	160.0	
PAY ITEM QUANTITY:						231.0	80.0	132.0	160.0	

202 & 606 ITEMS - GUARDRAIL SUMMARY									
SHEET	STATION		OFFSET	606.0001.0000	606.0006.0000	606.0013.0000	202.2013.0000	GUARDRAIL CASE*	REMARKS
	FROM	TO		W-BEAM GUARDRAIL (LF)	REMOVING AND DISPOSING OF GUARDRAIL (LF)	PARALLEL GUARDRAIL TERMINAL (EA)	REMOVE FUGITIVE MATERIALS (LF)		
F4	141+75	146+23	LT	350.0		2		4	
F4	141+77	146+39	LT		470		470		
F4	140+41	141+92	RT		151		151		
F4	141+97	142+74	RT		88		88		
F4	142+07	146+23	RT	362.5		1		3	INSTALL DOWNSTREAM END ANCHOR AS SHOWN IN PLANS.
F4	142+68	146+26	RT		360		360		
F10	300+59	302+61	LT		207		207		
F10	300+62	303+37	LT	175.0		2		5	
TOTAL:				887.5	1276	5	1276		
PAY ITEM QUANTITY:				887.5	1276	5	1276		

NOTE: SEE ALASKA STANDARD PLAN G-10 FOR GUARDRAIL CASES

501.2007.0001 & 501.2007.0002 - HEADWALL, TYPE I & HEADWALL, TYPE II					
SHEET	STATION	OFFSET	501.2007.0001	501.2007.0002	REMARKS
			TYPE I	TYPE II	
F8	243+76	RT	1		P08-1 INLET
F8	243+81	LT	1		P08-1 OUTLET
F9	262+58	RT		1	P09-1 INLET
PAY ITEM QUANTITY(EA):			2	1	



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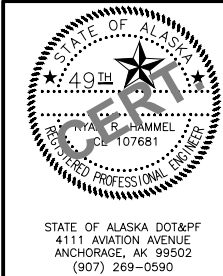
SUMMARY TABLES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	D3	D4

639.2000.0000 - APPROACH						
SHEET	STATION	OFFSET	WIDTH (LF)	LENGTH (LF) *REF. FROM CL	RADIUS (LF)	REMARKS
F7	214+35	LT	16	35.0	20	
F7	215+15	RT	20	24.5	20	
F7	222+52	LT	20	28.5	20	
F7	222+57	RT	24	31.5	40	
F7	225+55	LT	26	28.5	20	
F8	237+14	LT	20	26.5	20	
F8	238+37	LT	28	24.5	20	
F8	239+97	LT	20	23.5	20	
F8	242+39	LT	20	29.5	20	
F8	243+46	LT	18	22.0	20	
F8	246+02	LT	18	23.0	20	
F8	246+21	RT	20	22.5	20	
F8	246+70	LT	28	23.0	20	
F8	248+06	LT	20	23.0	20	
F8	249+90	LT	18	24.5	20	
F9	258+22	LT	20	24.5	20	
F9	264+84	LT	36	22.5	20	
F9	267+11	LT	26	24.0	20	
F9	270+85	LT	34	28.0	15	
F10	300+37	LT	20	24.0	20	
F10	307+18	RT	18	23.0	20	
F11	310+62	LT	20	24.5	20	
F11	315+77	LT	18	23.0	20	
F11	317+23	RT	20	20.0	20	
F11	323+37	RT	18	24.0	20	
F11	323+51	LT	16	24.5	20	
F12	338+77	LT	16	24.0	20	
F12	343+85	LT	16	23.0	20	
F12	344+77	LT	16	23.5	20	
F12	347+47	LT	16	23.0	20	
F12	348+76	LT	16	23.5	20	
F12	358+17	RT	30	22.5	20	
F13	370+23	RT	14	22.0	15	
F13	371+90	RT	18	20.0	20	
F13	377+26	LT	16	22.0	20	
F13	378+74	RT	14	22.5	15	

610.0002.0000 - DITCH LINING				
SHEET	STATION	OFFSET	WEIGHT (TON)	REMARKS
F8	243+76	RT	19.9	P08-1 INLET
F8	243+81	LT	16.3	P08-1 OUTLET
F9	262+58	RT	9.6	P09-1 INLET
F9	262+53	LT	39.1	P09-1 OUTLET
TOTAL:			84.9	
PAY ITEM QUANTITY:			90	

611.0002.0003 - RIPRAP, CLASS III				
SHEET	STATION	OFFSET	WEIGHT (TON)	REMARKS
F8	243+76	RT	83.8	P08-1 INLET
F8	243+81	LT	73.0	P08-1 OUTLET
F9	262+58	RT	63.3	P09-1 INLET
F9	262+53	LT	153.6	P09-1 OUTLET
TOTAL:			373.7	
PAY ITEM QUANTITY:			380	

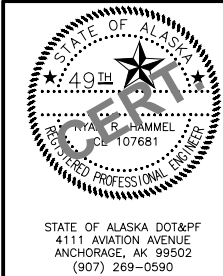


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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION**

SUMMARY TABLES

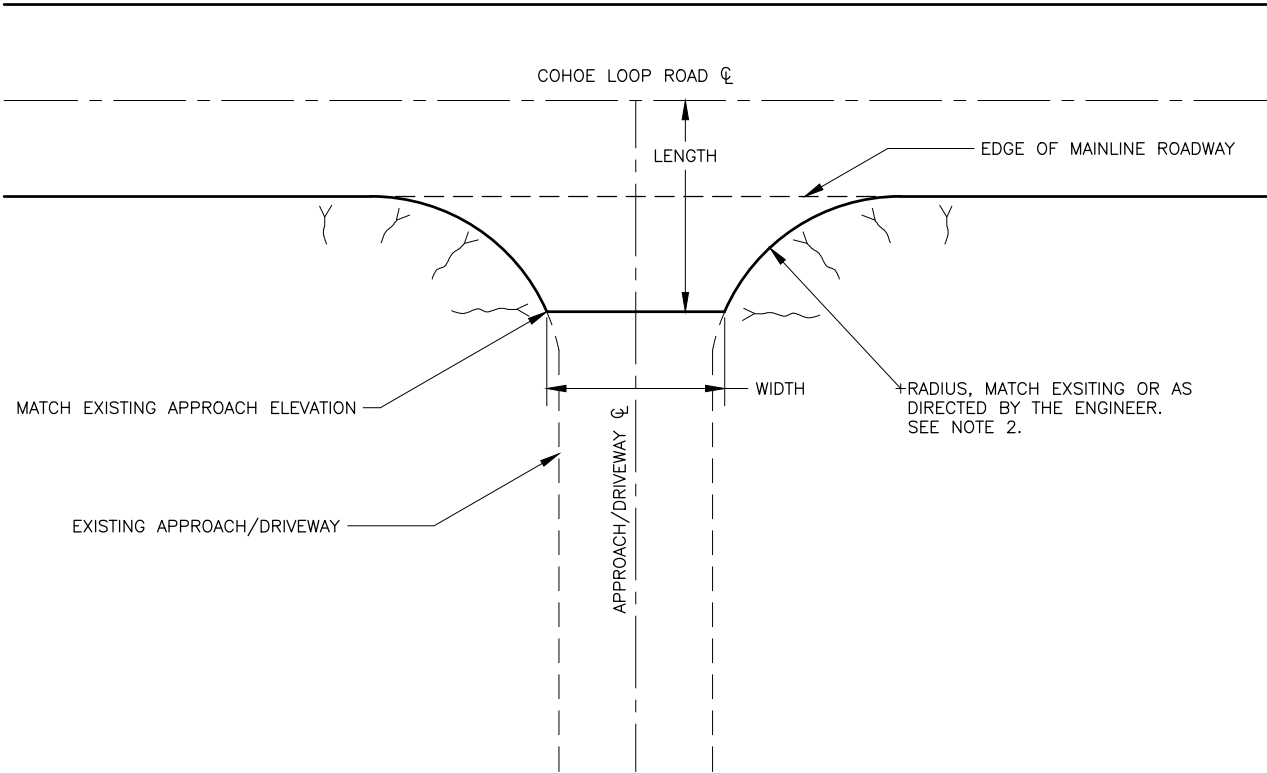
639.2000.0000 - APPROACH (CONTINUED)						
SHEET	STATION	OFFSET	WIDTH (LF)	LENGTH (LF) *REF. FROM CL	RADIUS (LF)	REMARKS
F13	378+84	LT	14	21.5	20	
F13	381+23	LT	14	22.5	20	
F13	381+31	RT	14	22.0	15	
F13	386+49	LT	14	22.5	20	
F13	386+49	RT	14	21.0	20	
F14	389+66	LT	14	21.5	20	
F14	394+15	RT	14	32.0	15	
F14	401+93	LT	16	21.0	20	
F14	406+67	LT	14	22.0	20	
F14	407+46	LT	14	47.5	25	
F14	409+16	LT	14	21.5	15	
F14	411+59	LT	14	21.5	20	
F15	414+30	RT	14	21.5	20	
F15	415+25	LT	14	21.5	20	
F15	421+23	LT	16	21.0	20	
F15	421+23	RT	18	23.0	15	
F15	423+84	LT	14	22.0	20	
F15	427+65	LT	14	21.5	15	
F16	444+64	RT	20	33.0	20	
F16	463+06	LT	16	22.0	20	
F17	466+23	LT	14	21.5	20	
F17	474+92	LT	14	21.0	15	
F17	477+00	RT	14	22.0	20	
F17	481+76	RT	14	20.5	20	
F17	483+21	RT	14	31.5	20	
F17	490+05	RT	18	20.0	20	
F18	492+49	LT	16	23.5	20	
F18	497+02	RT	16	32.0	20	
F18	501+92	RT	14	21.5	20	
F18	503+59	LT	16	21.5	20	
F18	504+25	RT	16	21.5	20	
F18	510+33	RT	20	32.0	20	
F19	518+88	LT	20	21.5	20	
F20	543+34	RT	16	43.5	15	
PAY ITEM QUANTITY(EA):					70	



STATE OF ALASKA
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**COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION**

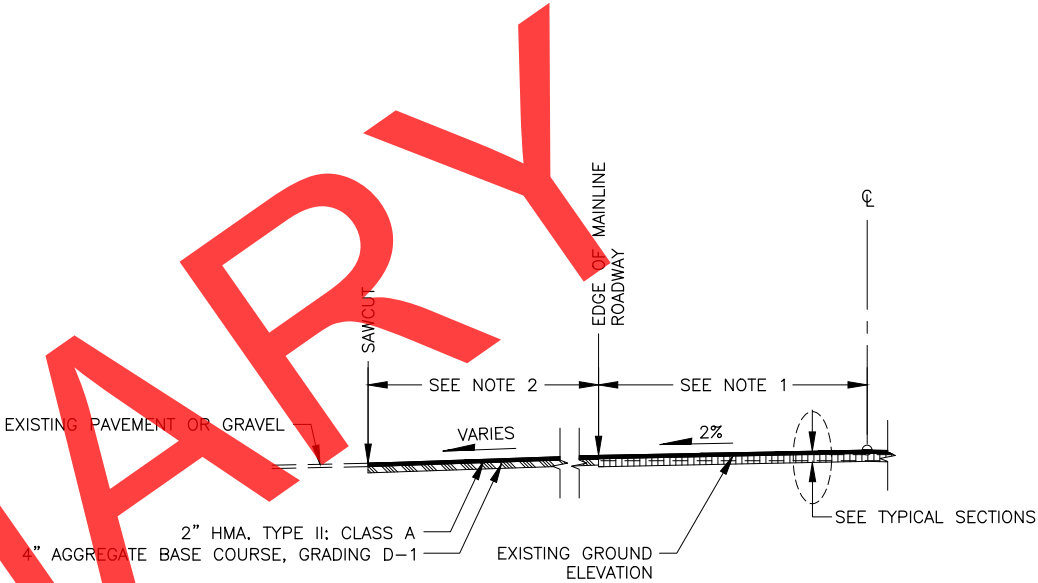
SUMMARY TABLES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	E1	E3



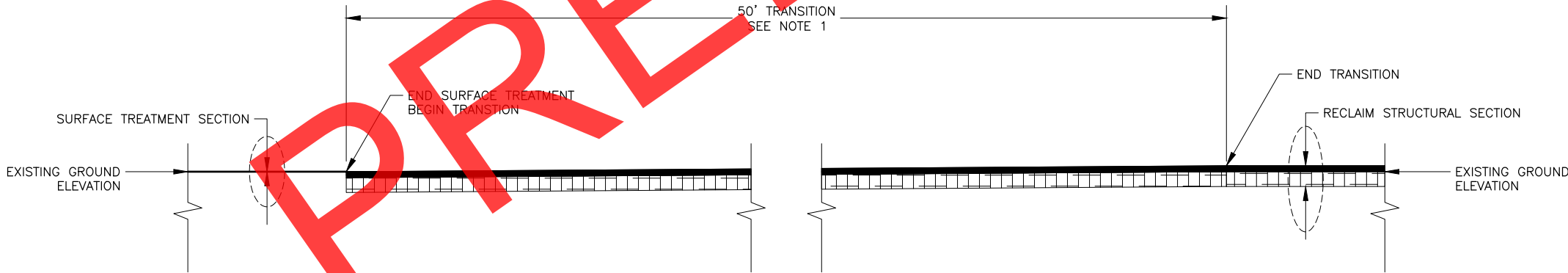
APPROACH/DRIVEWAY PLAN VIEW

1. MATCH EXISTING WIDTH OR AS DIRECTED BY THE ENGINEER.
2. BUTTRESS PAVEMENT EDGE WITH AGGREGATE BASE COURSE, GRADING D-1 OR EXCESS CRUSHED ASPHALT BASE COURSE. ASSUME 1' MINIMUM WIDTH OR AS DIRECTED BY THE ENGINEER.



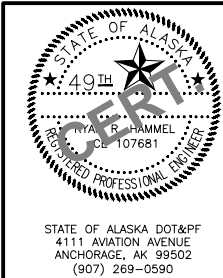
APPROACH TRANSITION

1. MATCH EXISTING WIDTH AT EDGE OF MAINLINE ROADWAY.
2. GRADE AND PAVE ASPHALT APRON AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
3. REMOVE PAVEMENT AND EXISTING BASE AS NECESSARY TO MATCH APPROACH ELEVATION.



LONGITUDINAL TRANSITION

1. TRANSITION OUT OF CUT-BACK ASPHALT SAND SEAL SECTION. TRANSITION TO BE LOCATED OUTSIDE OF SAND SEAL LIMITS. SHAPE SECTION AS NECESSARY TO TIE INTO PROPOSED SURFACE.
2. MATCH RECLAIM STRUCTURAL SECTION THROUGHOUT TRANSITION.



STATE OF ALASKA
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**COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION**

TRANSITION DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	E2	E3

NOTES:

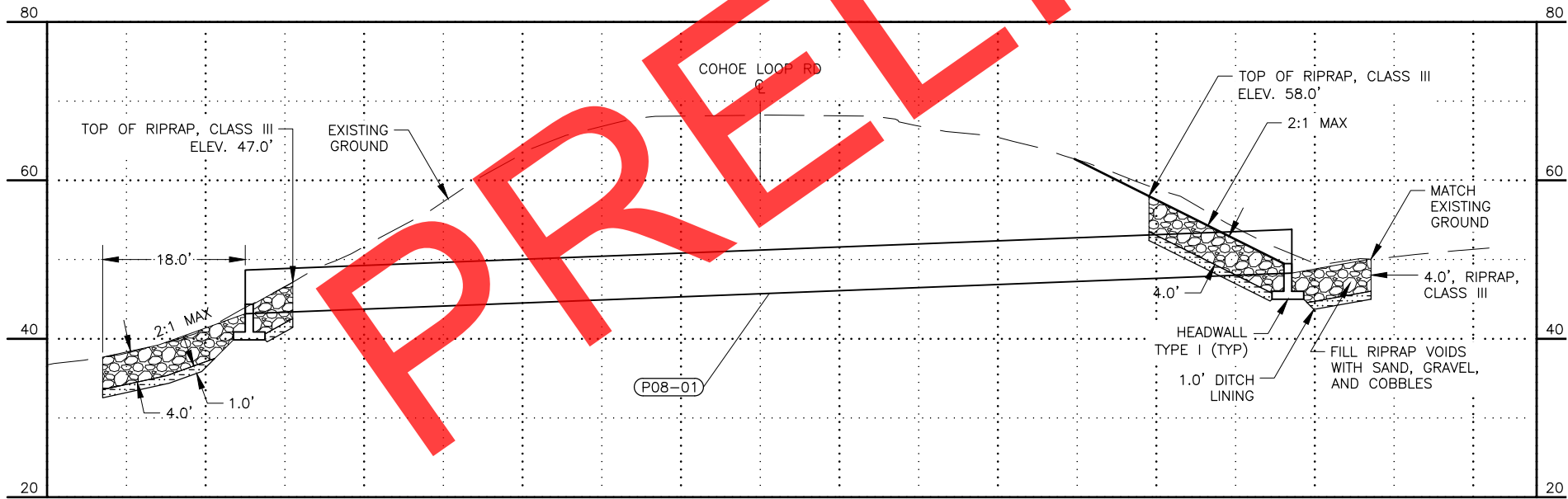
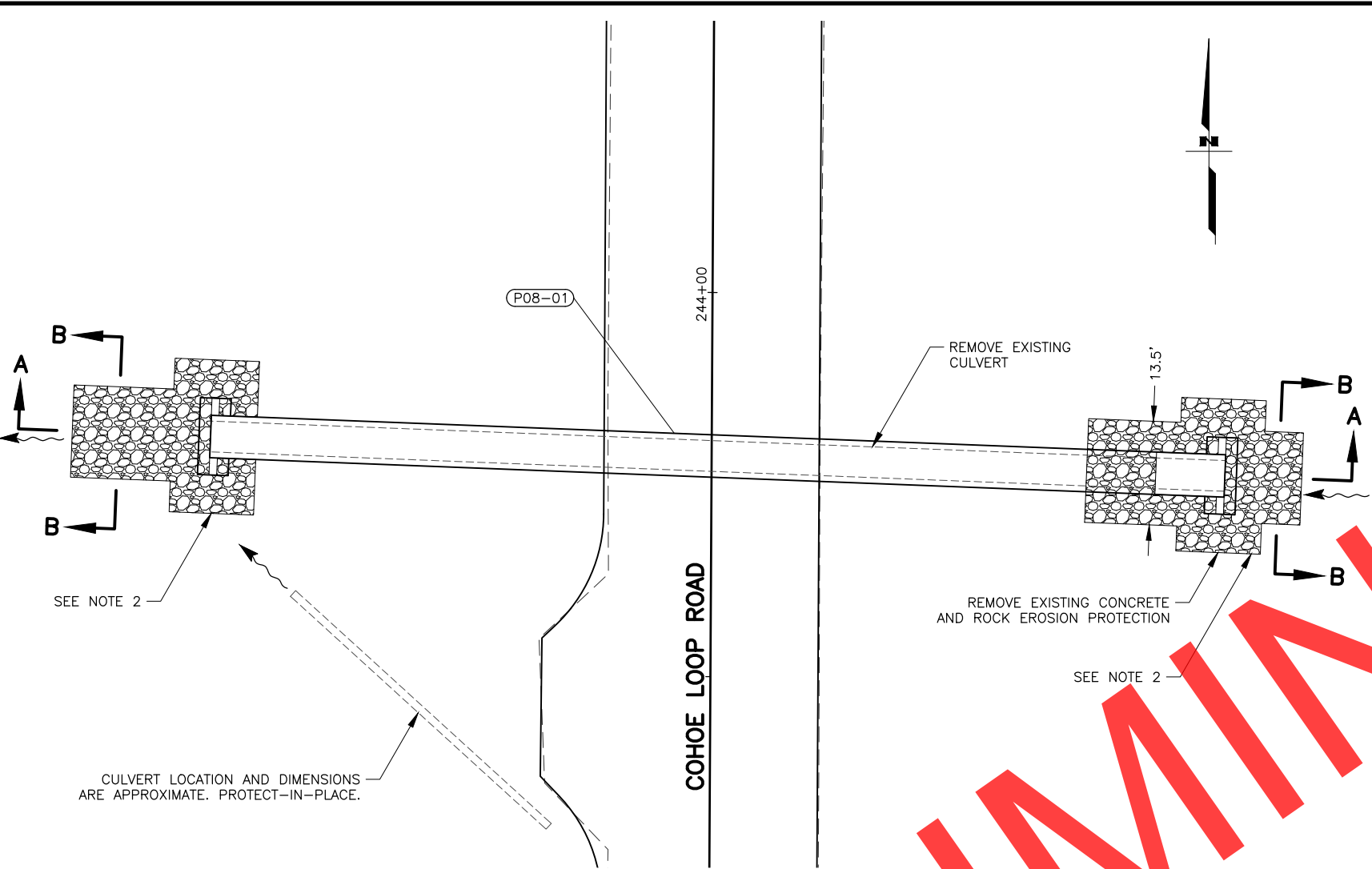
- ALL RIPRAP, CLASS III SHALL BE ON A 2:1 OR FLATTER SLOPE.
- INSTALL RIPRAP, CLASS III 5' AROUND ALL FOUR CORNERS OF HEADWALLS.
- DO NOT BEVEL CULVERT ENDS.
- INSTALL HEADWALLS PERPENDICULAR TO PIPE.

PIPE SUMMARY

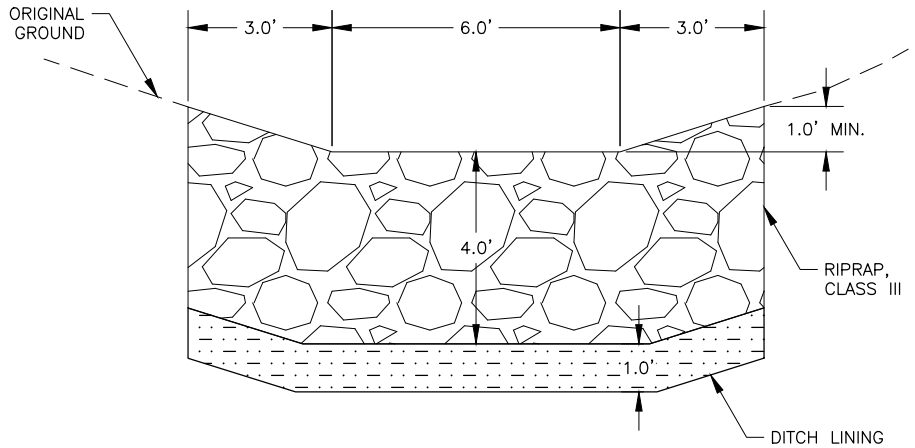
PIPE	SIZE (IN)	LENGTH (FT)	INLET			OUTLET			SLOPE (%)	REMARKS
			STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION		
P08-1	66	132.0	243+76	66.8 RT	48.3	243+81	65.2 LT	43.2	3.89	GAGE 10

HYDROLOGIC AND HYDRAULIC SUMMARY

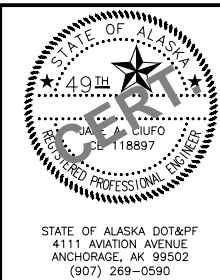
DRAINAGE AREA = 3.39 SQUARE MILES				
EXCEEDANCE PROBABILITY	10%	2%	1%	HW/D=1.0
RETURN PERIOD (Q)	10 YEAR (Q ₁₀)	50 YEAR (Q ₅₀)	100 YEAR (Q ₁₀₀)	N/A
DESIGN DISCHARGE	126 CFS	212 CFS	254 CFS	140 CFS
DESIGN HIGH WATER ELEVATION (F.T.)	53.3	56.0	57.8	53.8
ANTICIPATED ADDITIONAL WATER AT 1% AEP = 0.0 FEET				
OVERTOPPING DISCHARGE = 412 CFS				



SECTION A-A



SECTION B-B
INLET/OUTLET CHANNEL



STATE OF ALASKA
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PAVEMENT PRESERVATION**

**P08-1 PIPE INSTALLATION &
EROSION PROTECTION DETAILS**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	E3	E3

NOTES:

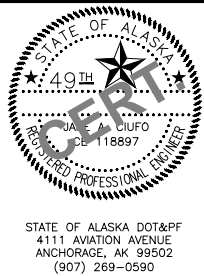
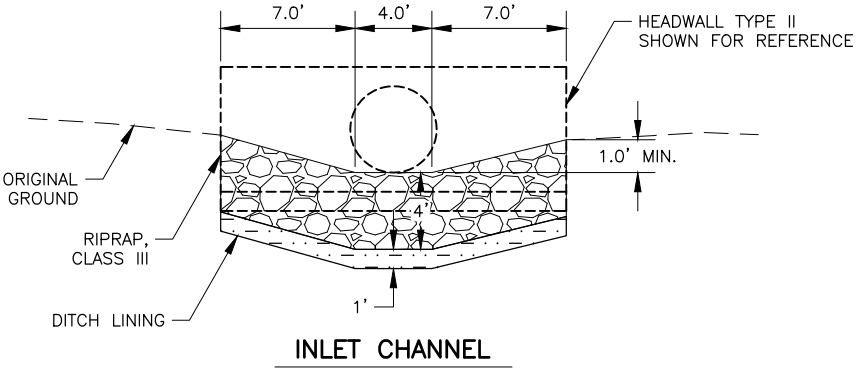
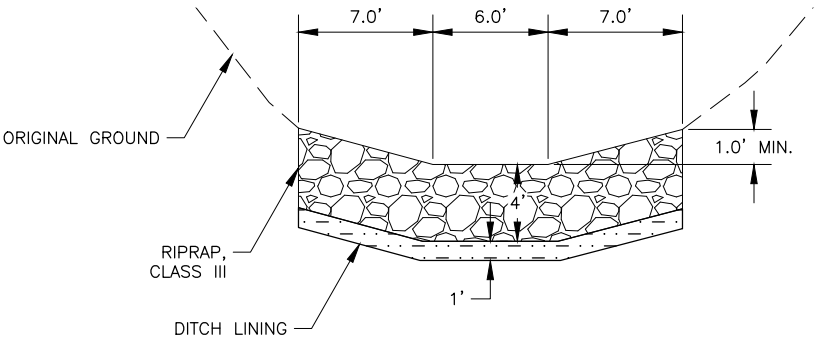
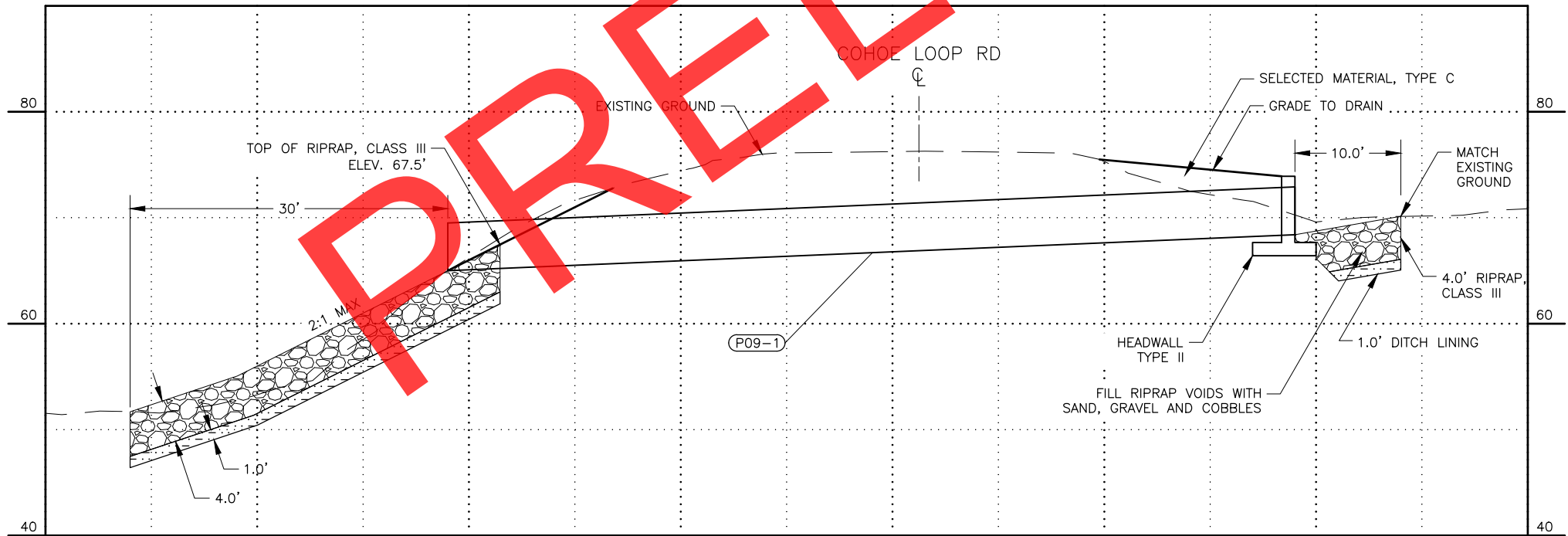
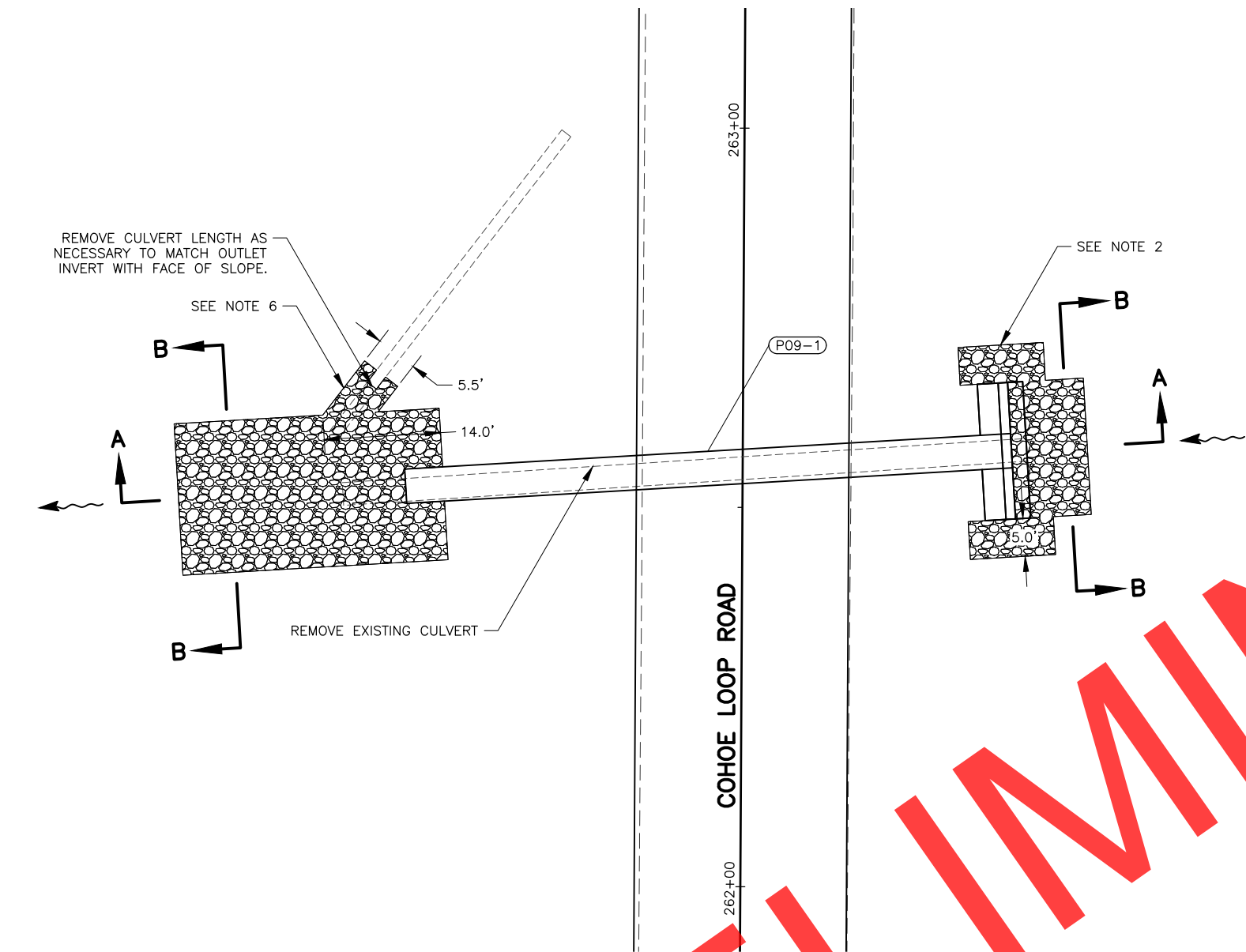
- ALL RIPRAP, CLASS III SHALL BE ON A 2:1 OR FLATTER SLOPE.
- INSTALL RIPRAP, CLASS III 5' AROUND ALL EXPOSED CORNERS OF HEADWALL.
- THE HEADWALL SHALL BE PERPENDICULAR TO THE CULVERT.
- DO NOT BEVEL CULVERT ENDS.
- MAINTAIN OUTLET CHANNEL SHAPE THROUGHOUT LENGTH OF RIPRAP APRON.
- MATCH MATERIAL DEPTHS AS SEEN IN P09-1 OUTLET CHANNEL. PLACE RIPRAP, CLASS III 2' BEYOND END OF PIPE.

PIPE SUMMARY

PIPE	SIZE (IN)	LENGTH (FT)	INLET			OUTLET			SLOPE (%)	REMARKS
			STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION		
P09-1	54	80.0	262+58	35.5 RT	68.4	262+53	44.5 LT	65.0	4.25	GAGE 10

HYDROLOGIC AND HYDRAULIC SUMMARY

DRAINAGE AREA = 2.1 SQUARE MILES				
EXCEEDANCE PROBABILITY	10%	2%	1%	HW/D=1.0
RETURN PERIOD (Y)	10 YEAR (Q_{10})	50 YEAR (Q_{50})	100 YEAR (Q_{100})	N/A
DESIGN DISCHARGE	82.6 CFS	142 CFS	171 CFS	101 CFS
DESIGN HIGH WATER ELEVATION (F.T.)	72.3	74.5	75.8	73
ANTICIPATED ADDITIONAL WATER AT 1% AEP = 0.0 FEET				
OVERTOPPING DISCHARGE = 180 CFS				



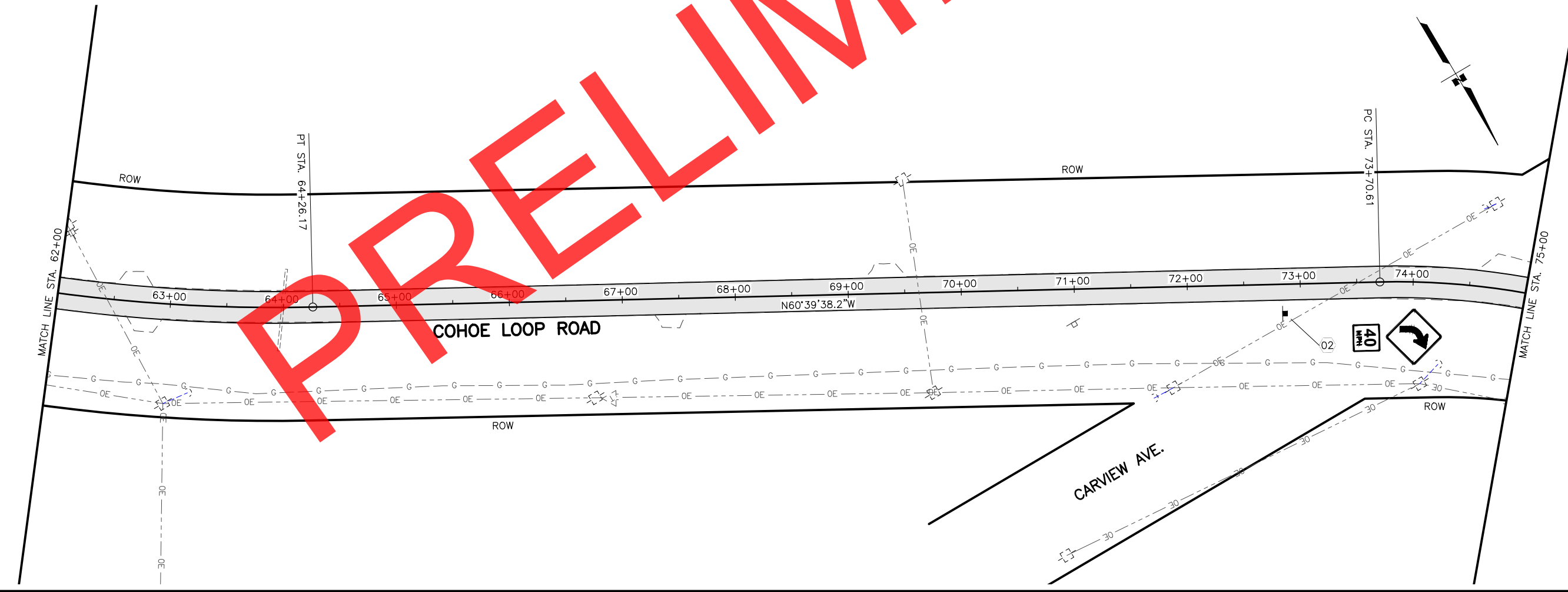
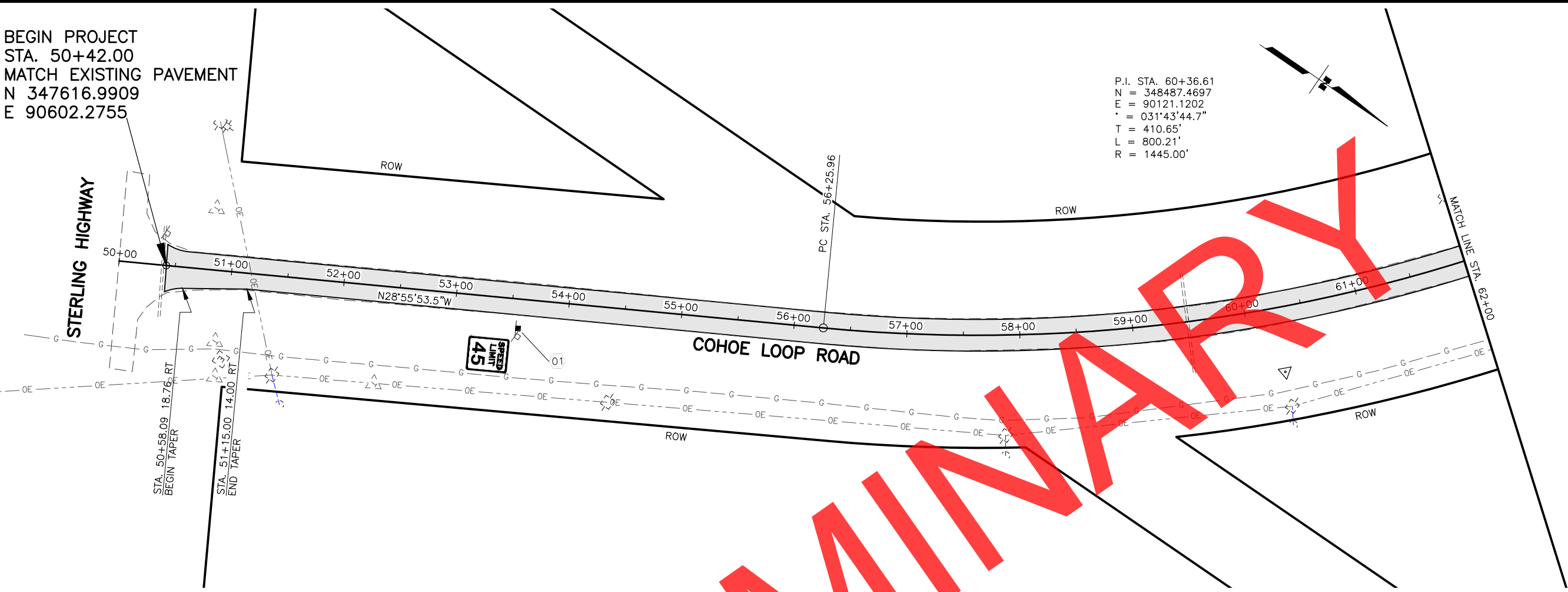
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION

P09-1 PIPE INSTALLATION &
EROSION PROTECTION DETAILS

BEGIN PROJECT
STA. 50+42.00
MATCH EXISTING PAVEMENT
N 347616.9909
E 90602.2755

P.I. STA. 60+36.61
N = 348487.4697
E = 90121.1202
Δ = 031°43'44.7"
T = 410.65'
L = 800.21'
R = 1445.00'



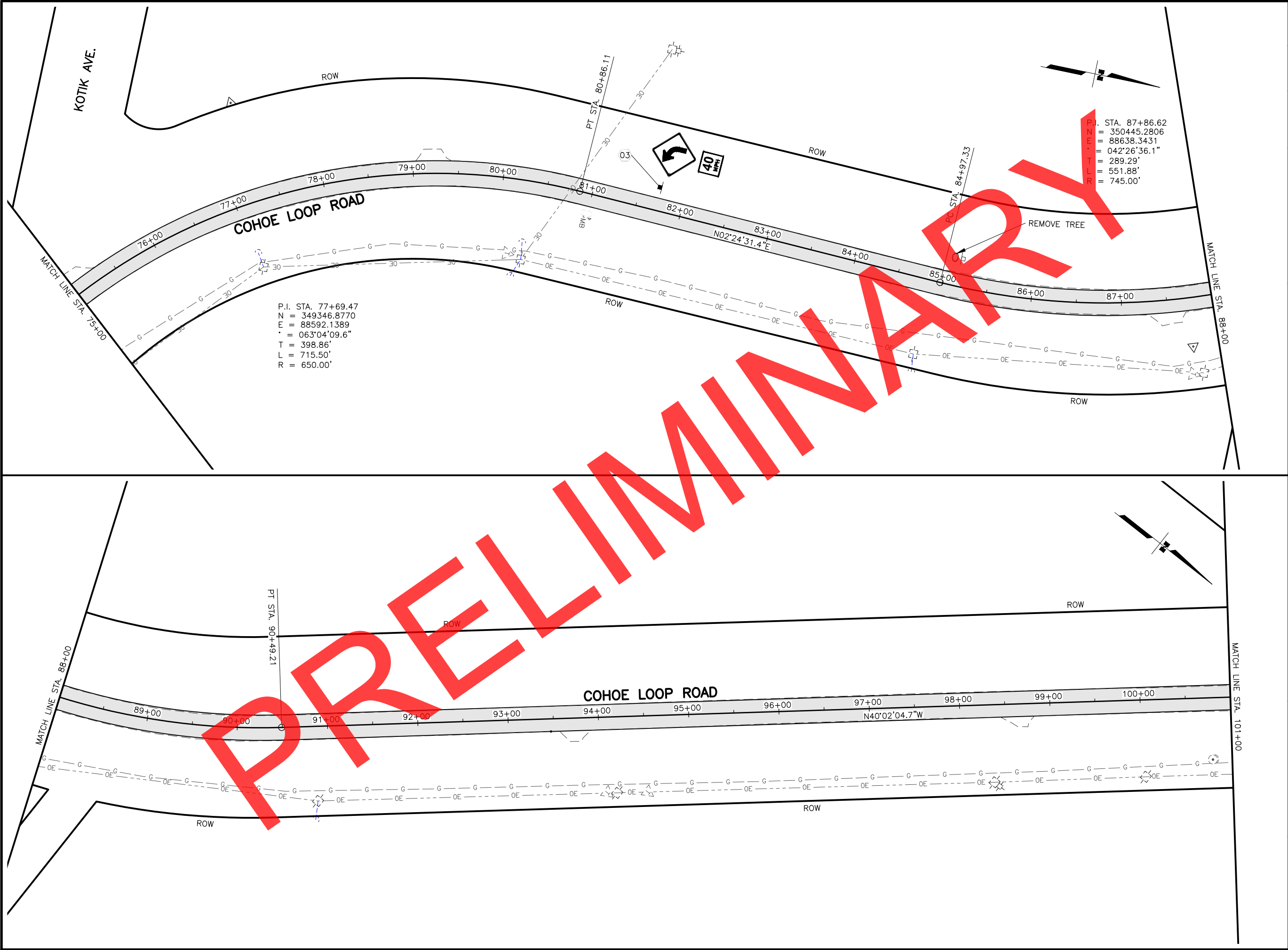
SHEET NO.	TOTAL SHEETS
F1	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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AND PUBLIC FACILITIES

COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

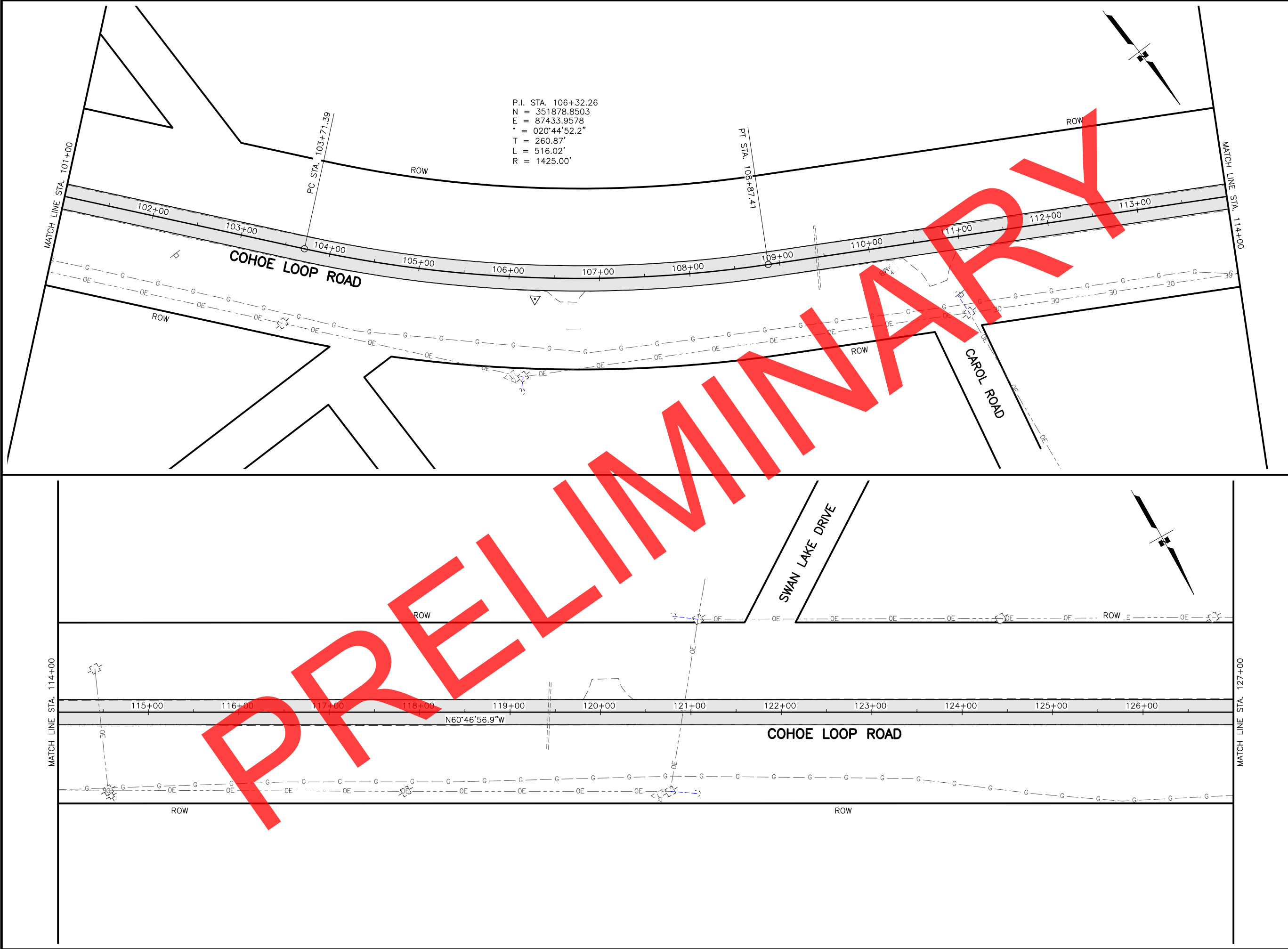
PLAN
B.O.P. TO STA. 75+00



SHEET NO.	TOTAL SHEETS
F2	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

COOK INLET
COHOE LOOP ROAD
STERLING HIGHWAY
THIS SHEET

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION
PLAN
STA. 75+00 TO 101+00



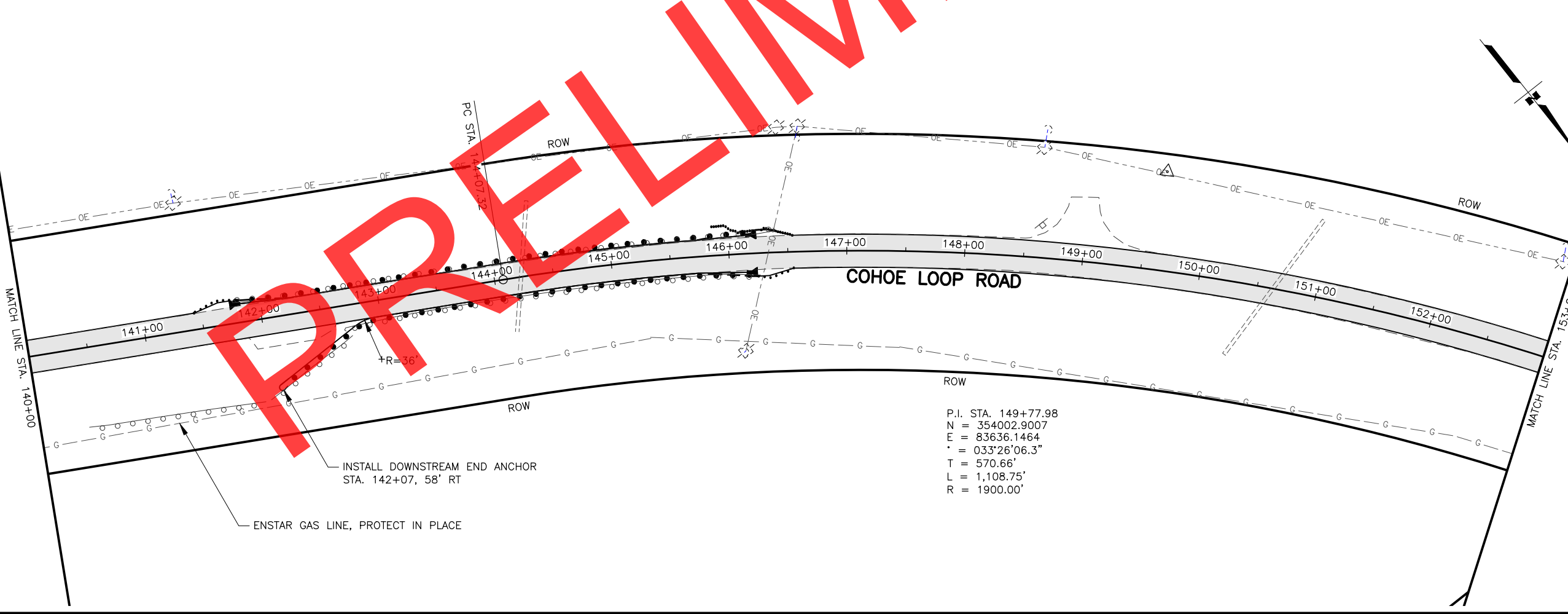
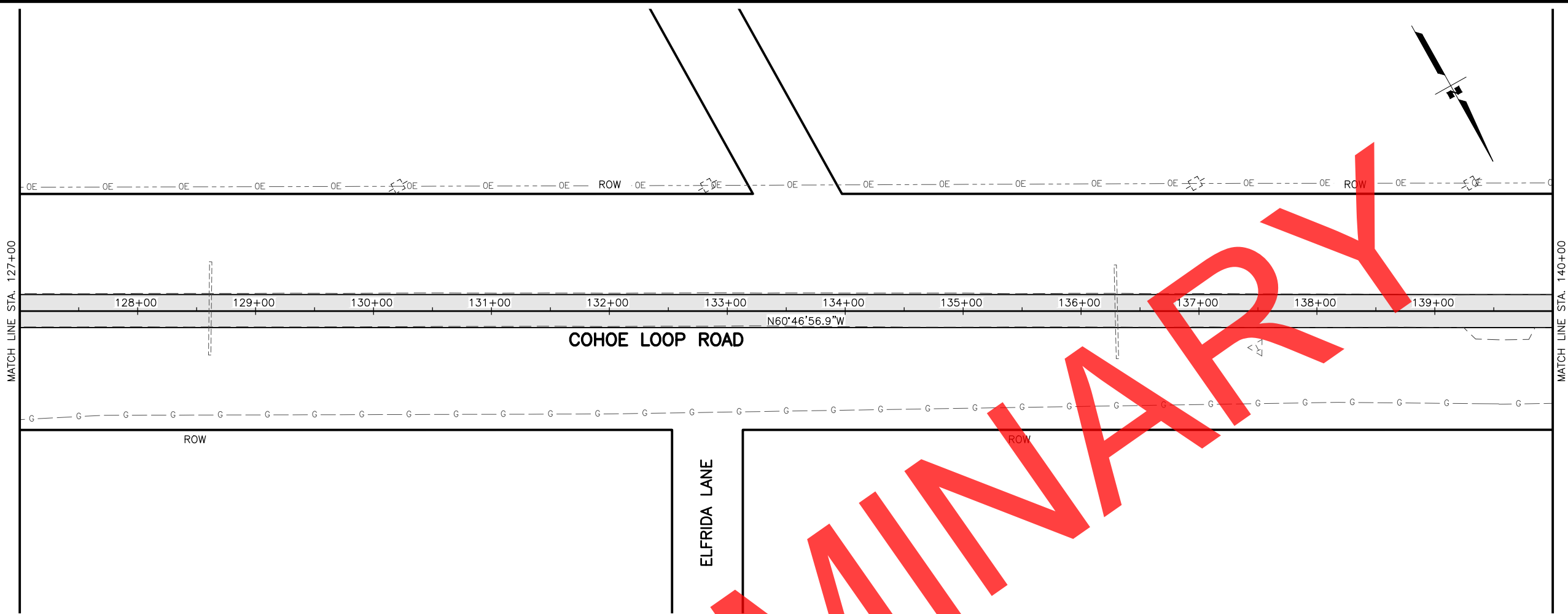
SHEET NO.	TOTAL SHEETS
F3	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

COOK INLET
COHOE LOOP ROAD
STERLING HIGHWAY
THIS SHEET

STATE OF ALASKA
49th
RYAN C. HAMMEL
REGISTERED PROFESSIONAL ENGINEER
107681

STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
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(907) 269-0590

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION
PLAN
STA. 101+00 TO 127+00



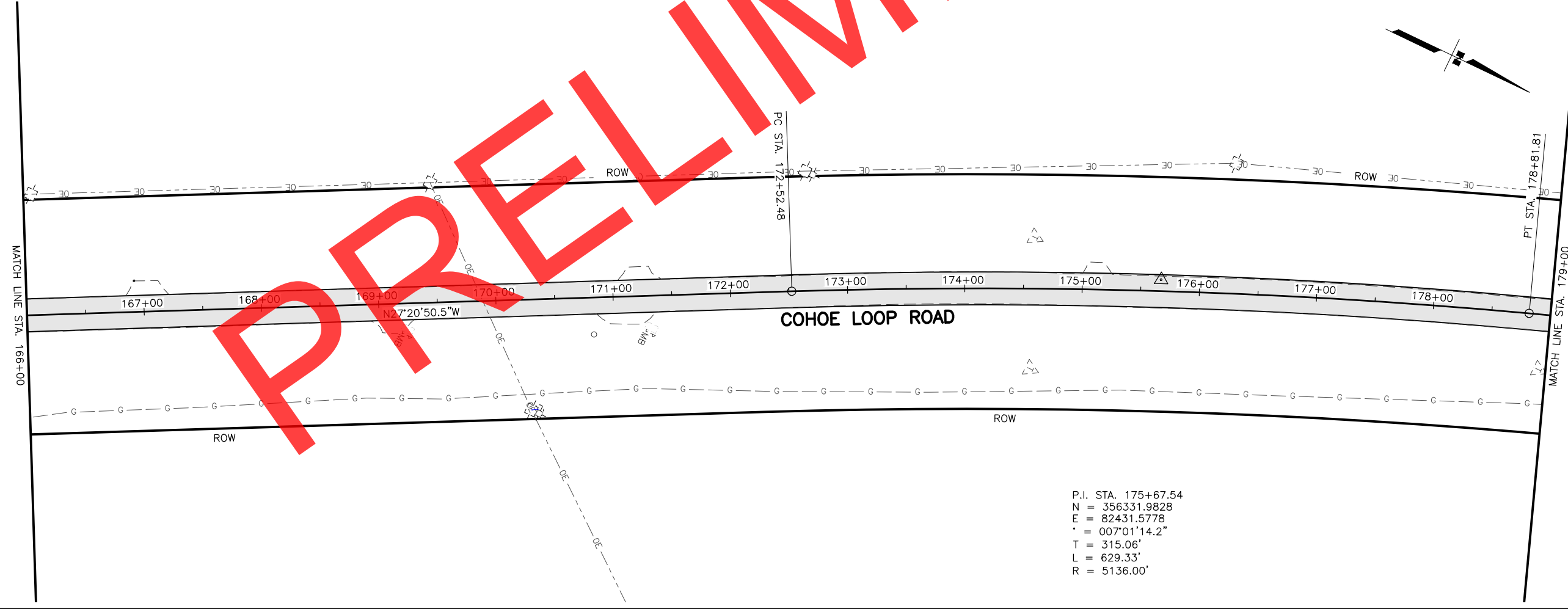
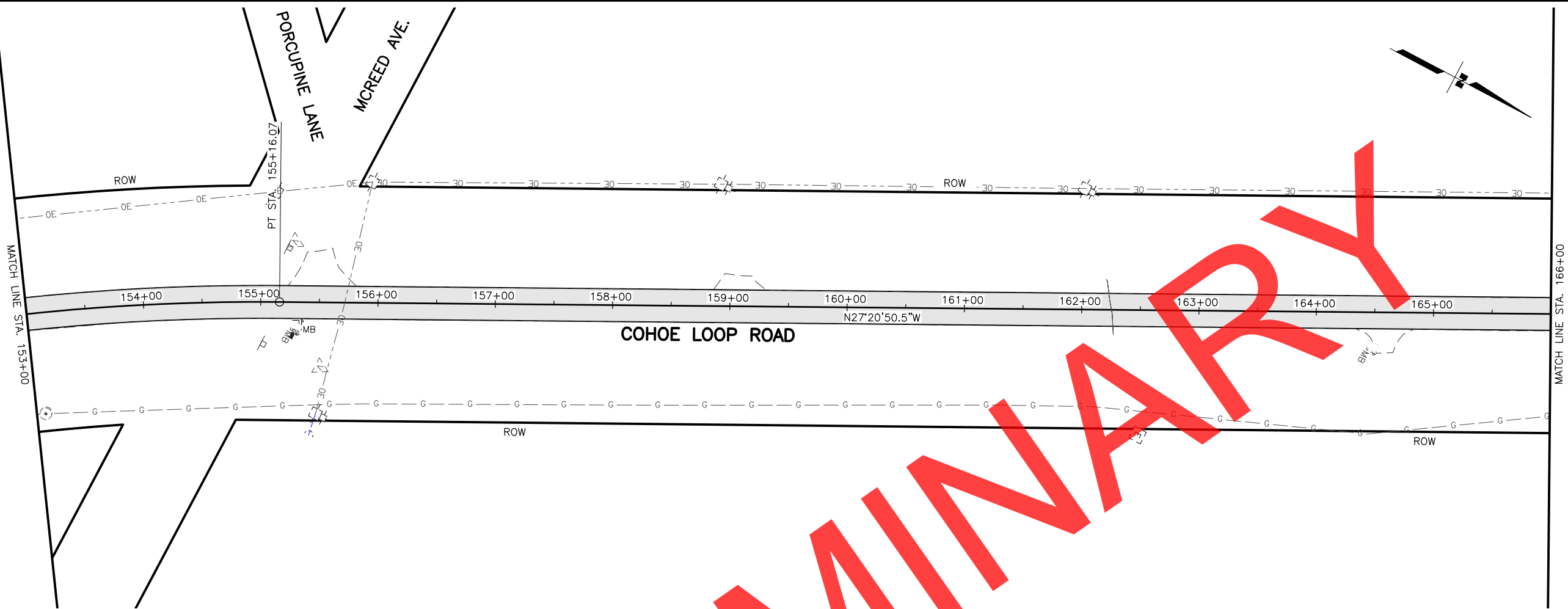
SHEET NO.	F4	TOTAL SHEETS	F20
STATE	ALASKA	YEAR	2023
PROJECT DESIGNATION			
0001645/ CFHWY00490			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 127+00 TO 153+00



SHEET NO.	TOTAL SHEETS
F5	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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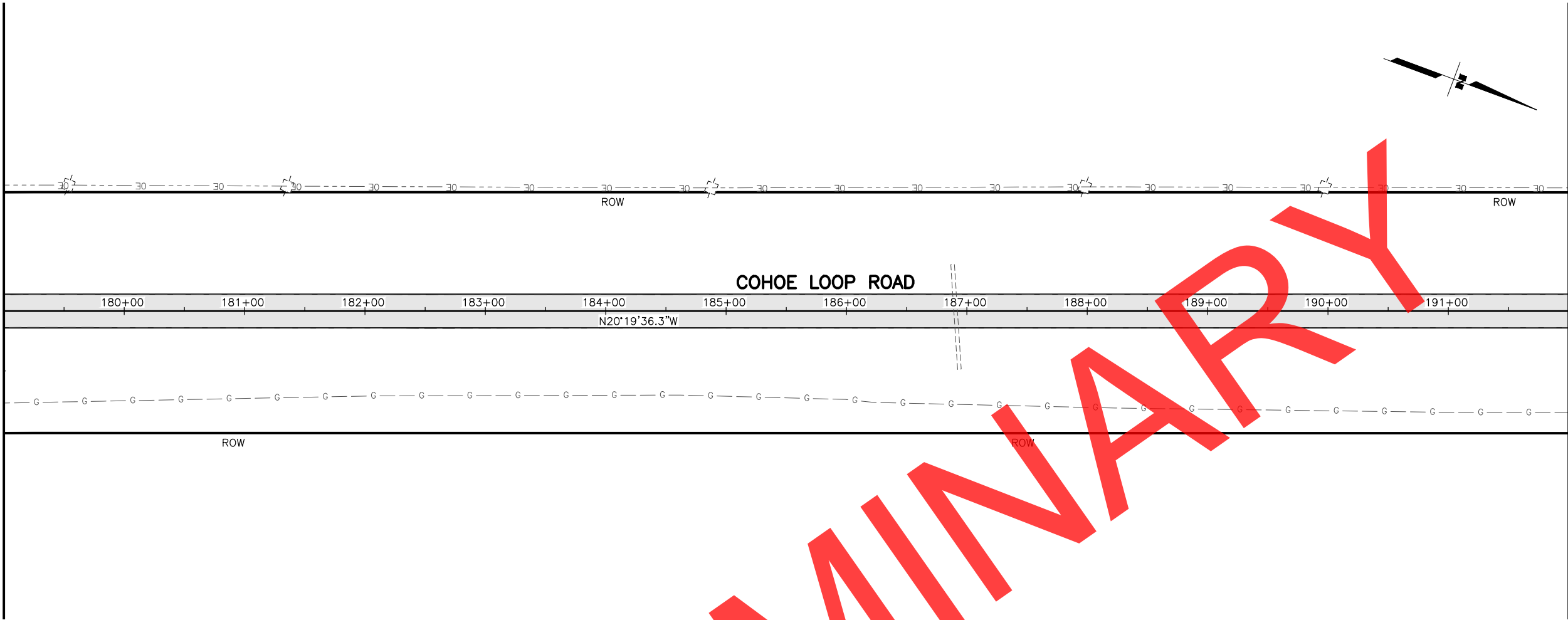
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 153+00 TO 179+00

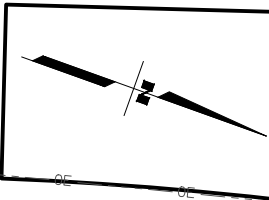
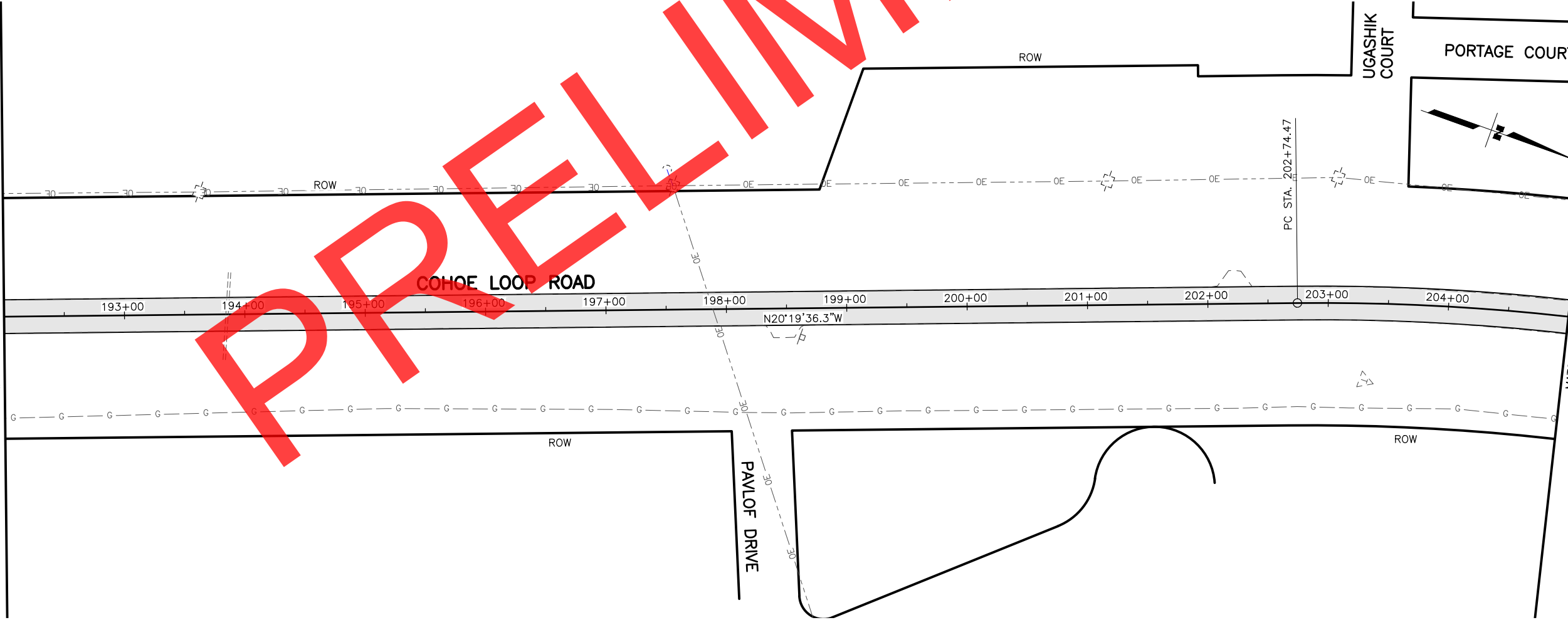
MATCH LINE STA. 179+00

MATCH LINE STA. 192+00



MATCH LINE STA. 192+00

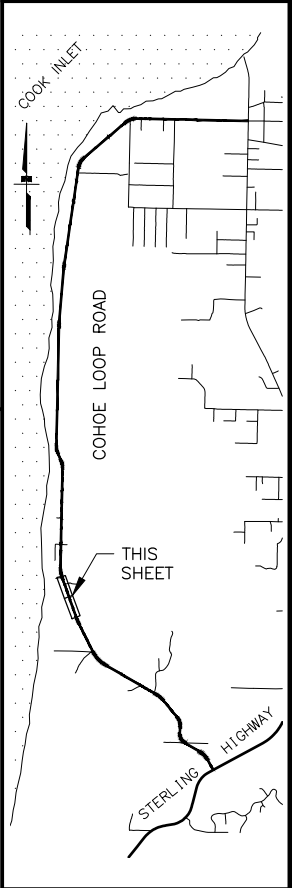
MATCH LINE STA. 205+00



SHEET NO.	TOTAL SHEETS
F6	F20
STATE	YEAR
ALASKA	2023

PROJECT DESIGNATION
**0001645/
CFHWY00490**

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

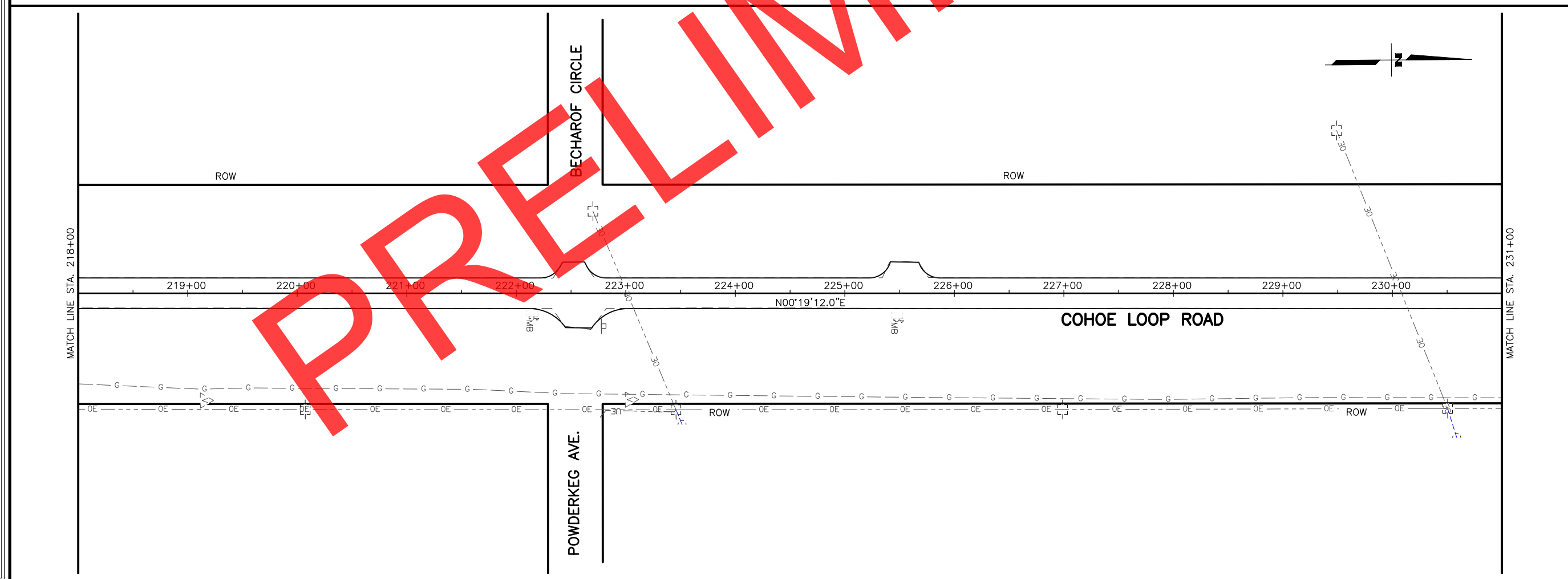
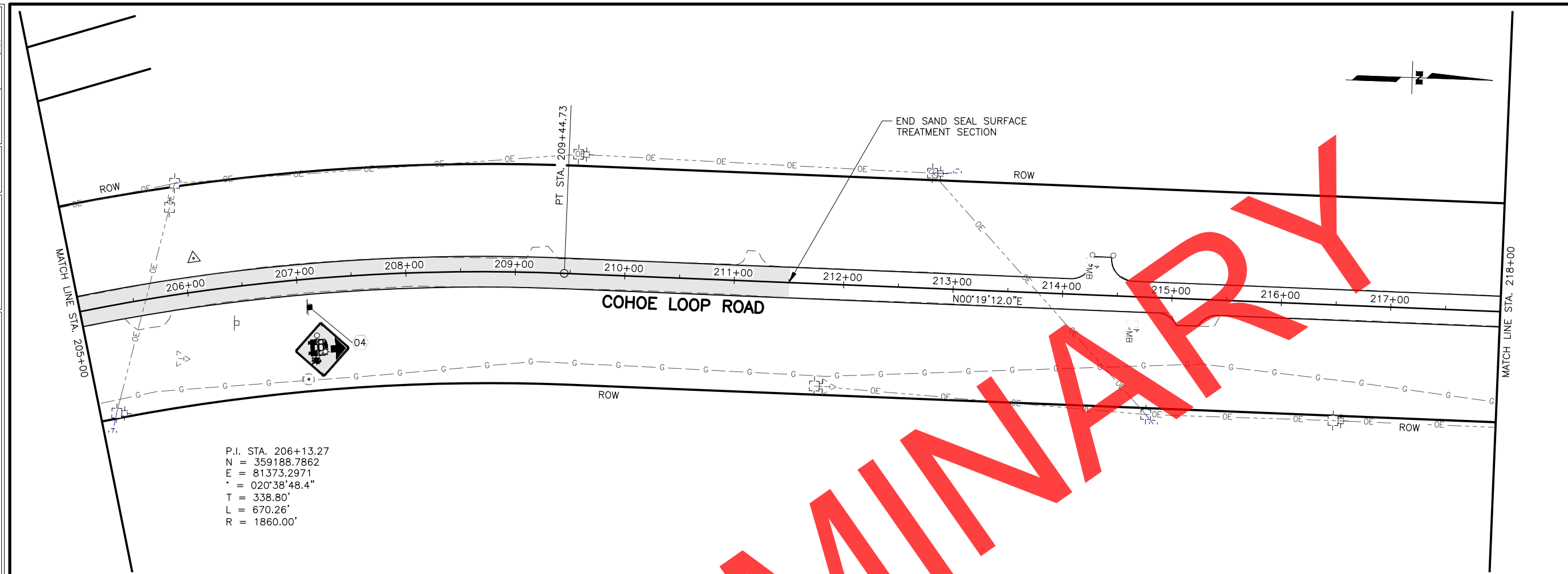


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**COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION**

**PLAN
STA. 179+00 TO 205+00**

DRAWING LOCATION	DATE	TIME	SCALE	DESIGNED BY
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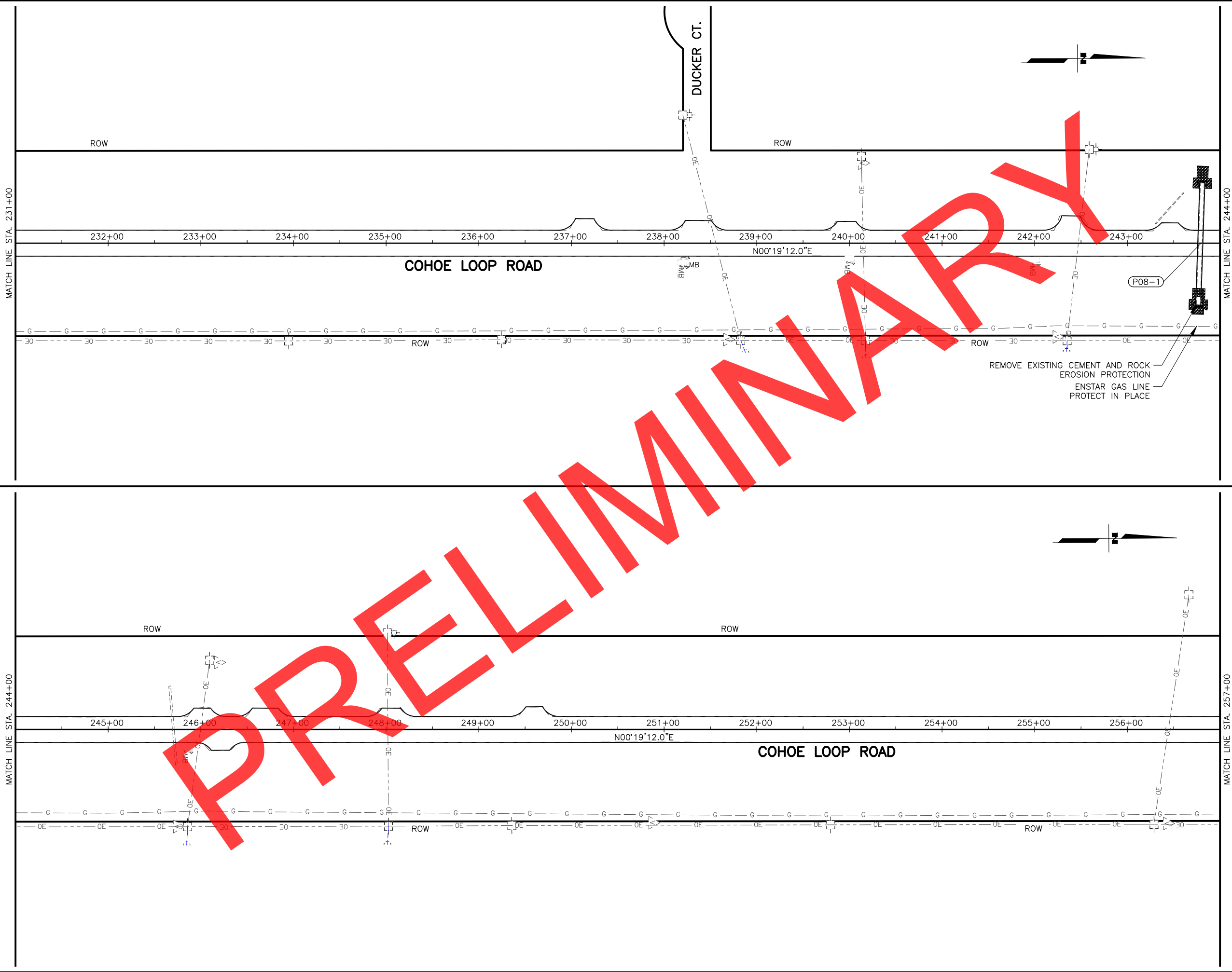
SHEET NO.		TOTAL SHEETS	
F7		F20	
STATE		YEAR	
ALASKA		2023	
PROJECT DESIGNATION			
0001645/ CFHWY00490			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			

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AND PUBLIC FACILITIES

COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 205+00 TO 231+00



SHEET NO.	F8	TOTAL SHEETS	F20
STATE	ALASKA	YEAR	2023
PROJECT DESIGNATION			
0001645/ CFHWY00490			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

COOK INLET
COHOE LOOP ROAD
THIS SHEET
STERLING HIGHWAY

STATE OF ALASKA
49th
RYAN C. HAMMEL
107681
REGISTERED PROFESSIONAL ENGINEER

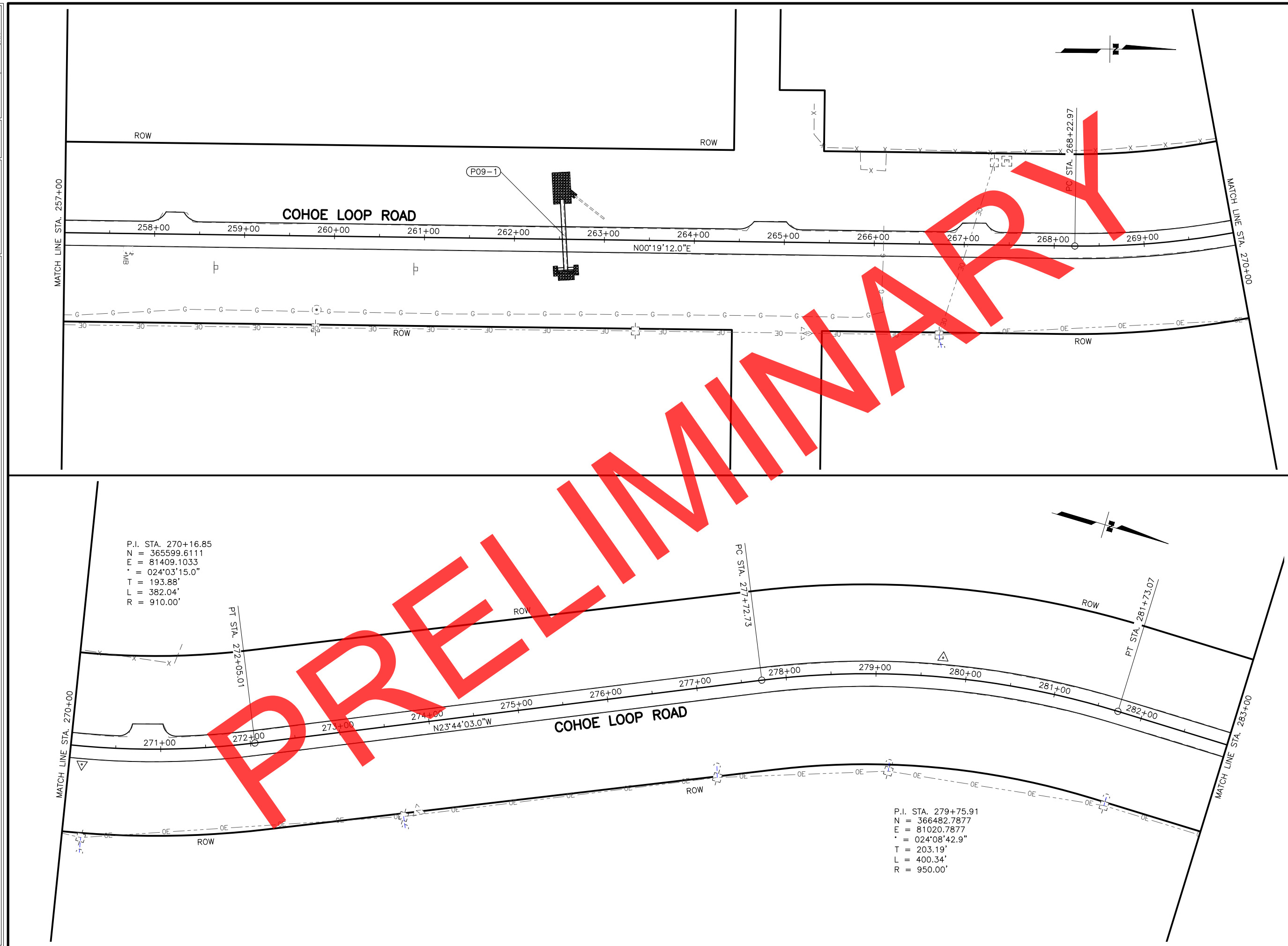
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 231+00 TO 257+00

DRAWING LOCATION		DATE	TIME	SCALE	DESIGNED BY
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					CHECKED BY
					RRH
					DRAFTED BY
					JKH



SHEET NO.		TOTAL SHEETS	
F9		F20	
STATE		YEAR	
ALASKA		2023	
PROJECT DESIGNATION			
0001645/ CFHWY00490			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			

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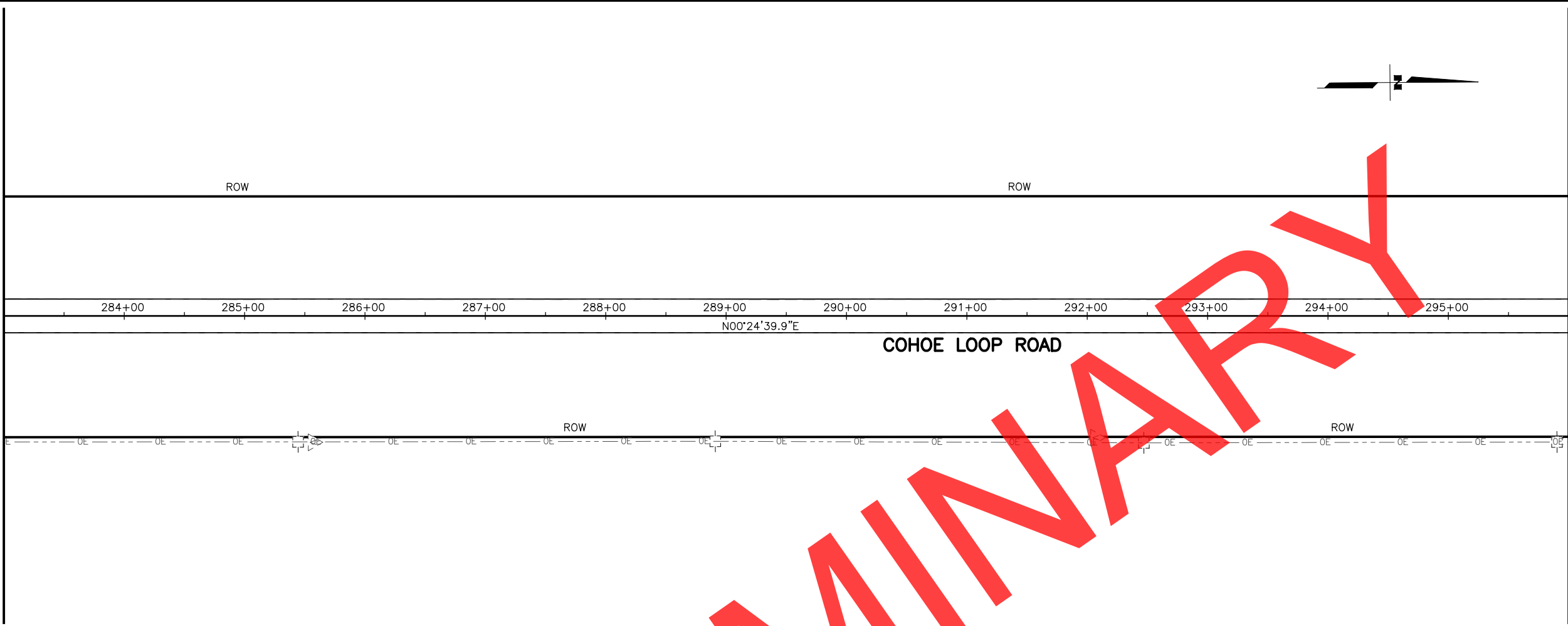
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 257+00 TO 283+00

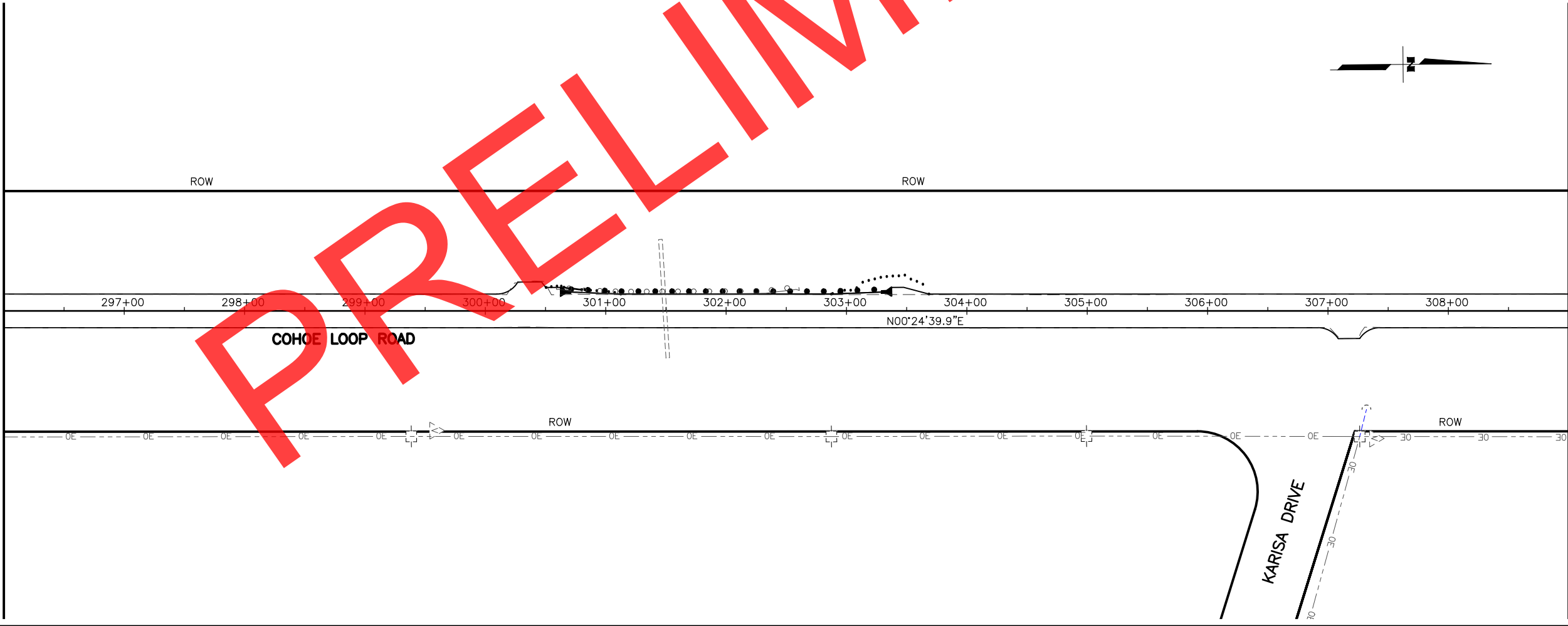
MATCH LINE STA. 283+00

MATCH LINE STA. 296+00

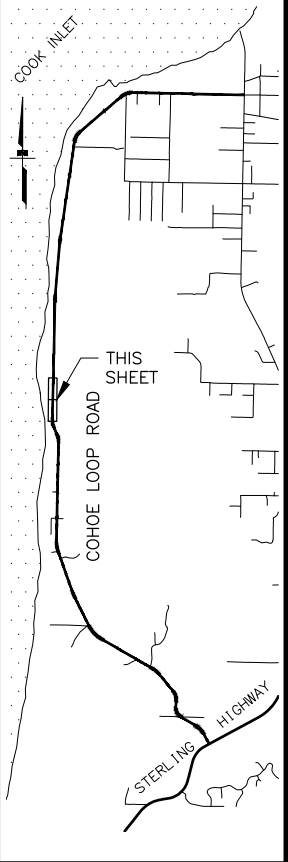


MATCH LINE STA. 296+00

MATCH LINE STA. 309+00



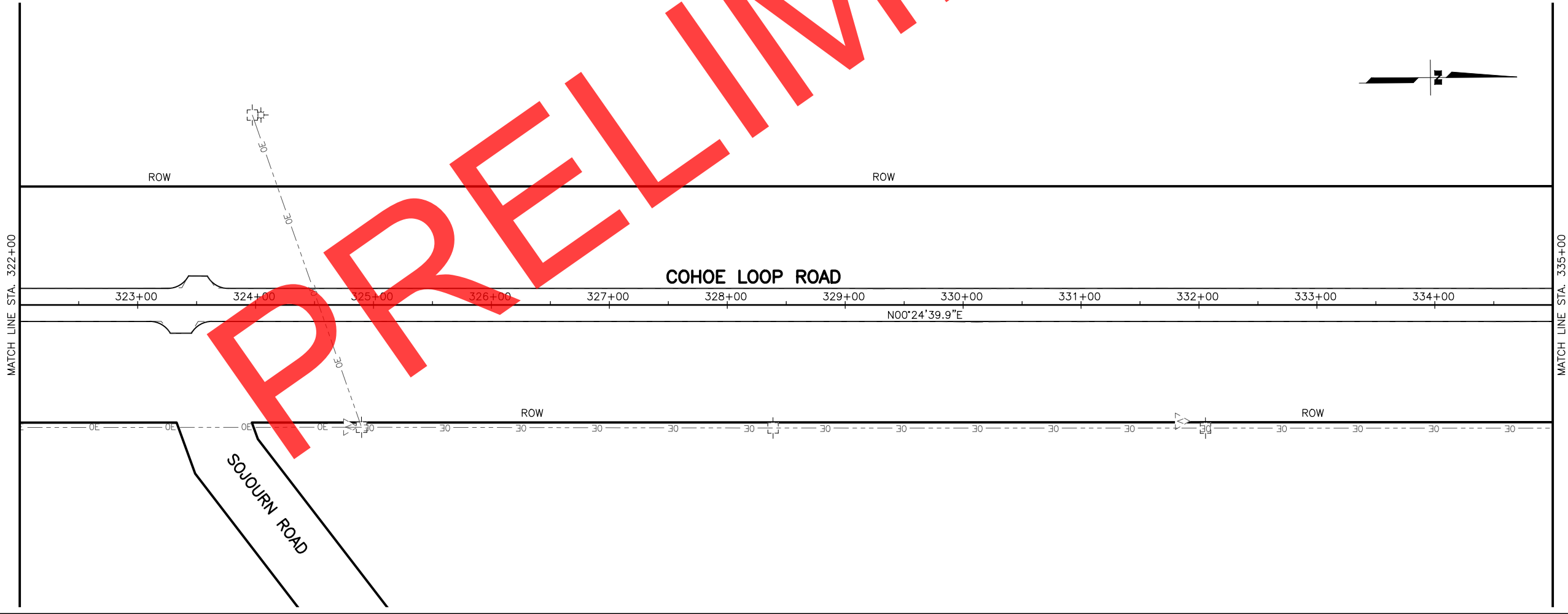
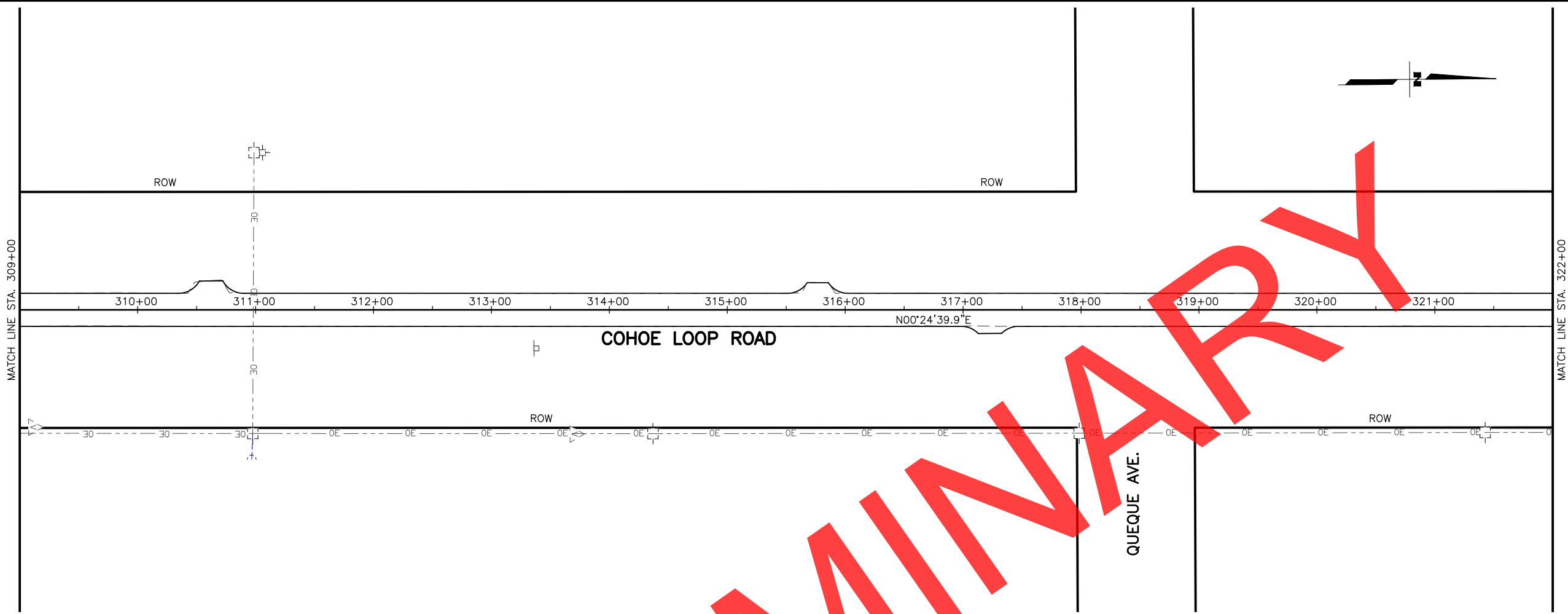
SHEET NO.	TOTAL SHEETS
F10	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 283+00 TO 309+00



SHEET NO.	TOTAL SHEETS
F11	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

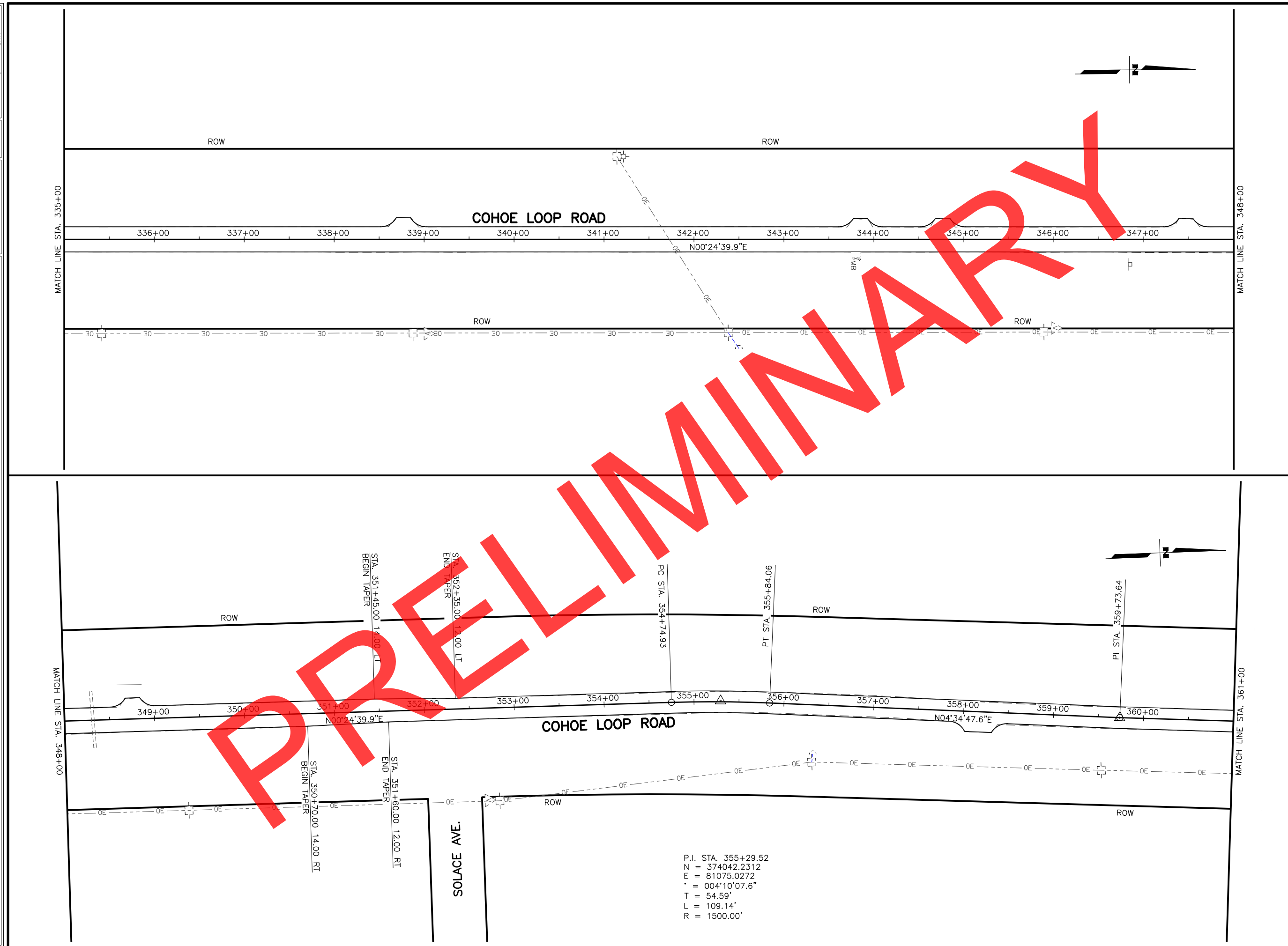
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COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 309+00 TO 335+00

DRAWING LOCATION		DATE	TIME	SCALE	DESIGNED BY
W:\PROJECTS\COHOE LOOP MP 0-9.7 PP - CFHWY00490\00490_F_SHEETS.DWG		1/5/2023	1:23 PM	1" = 50'	JKH
					CHECKED BY
					RRH
					DRAFTED BY
					JKH



SHEET NO.		TOTAL SHEETS	
F12		F20	
STATE		YEAR	
ALASKA		2023	
PROJECT DESIGNATION			
0001645/ CFHWY00490			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			

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COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 335+00 TO 361+00



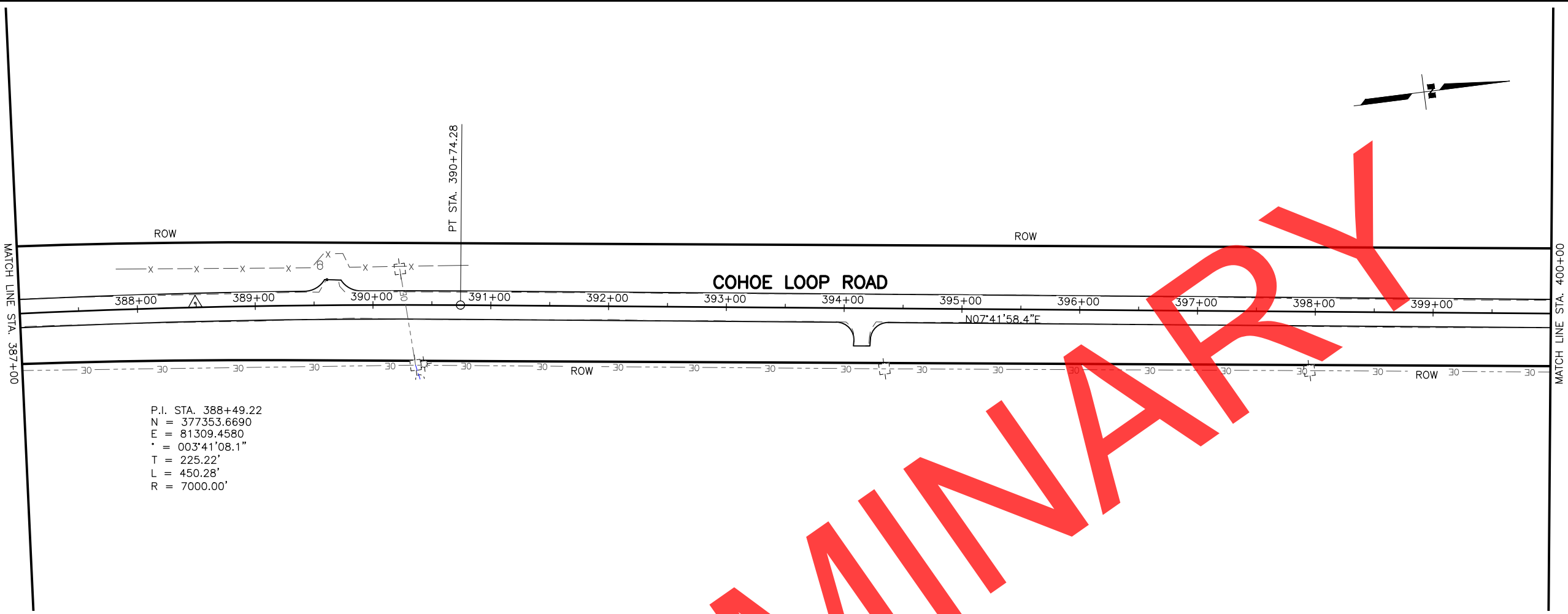
SHEET NO.	TOTAL SHEETS
F13	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 361+00 TO 387+00



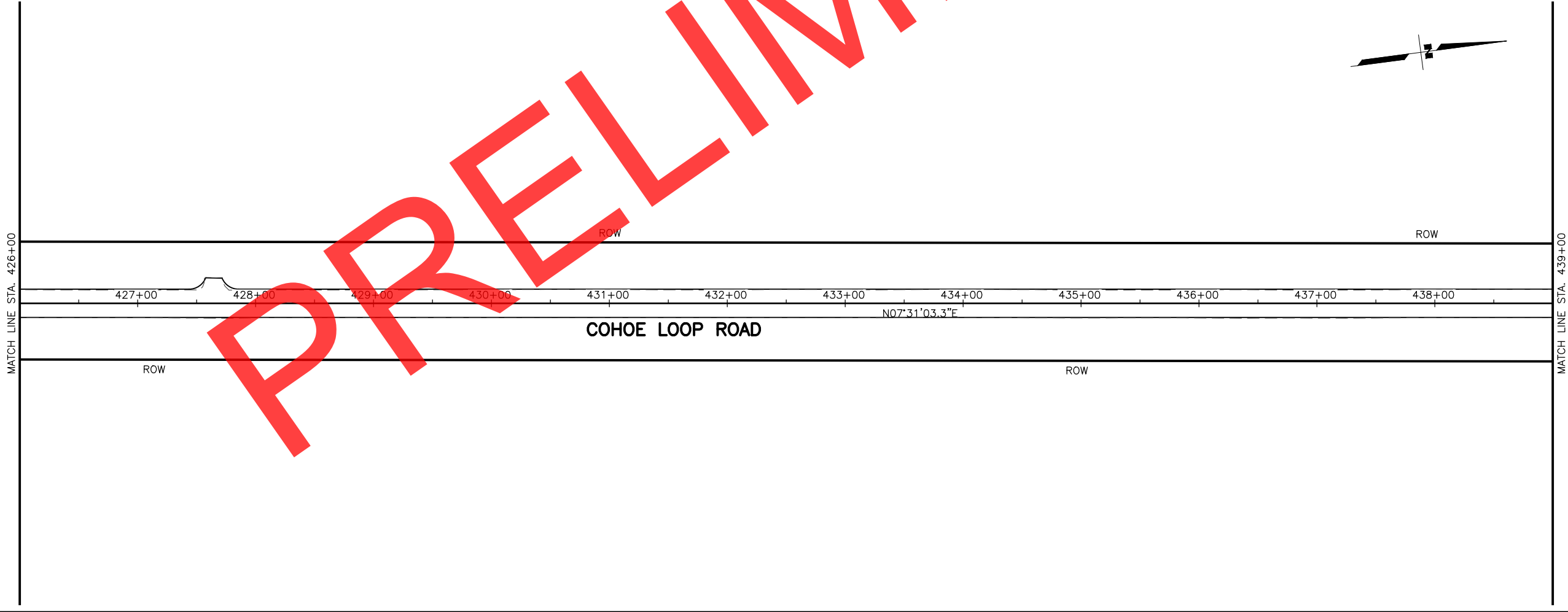
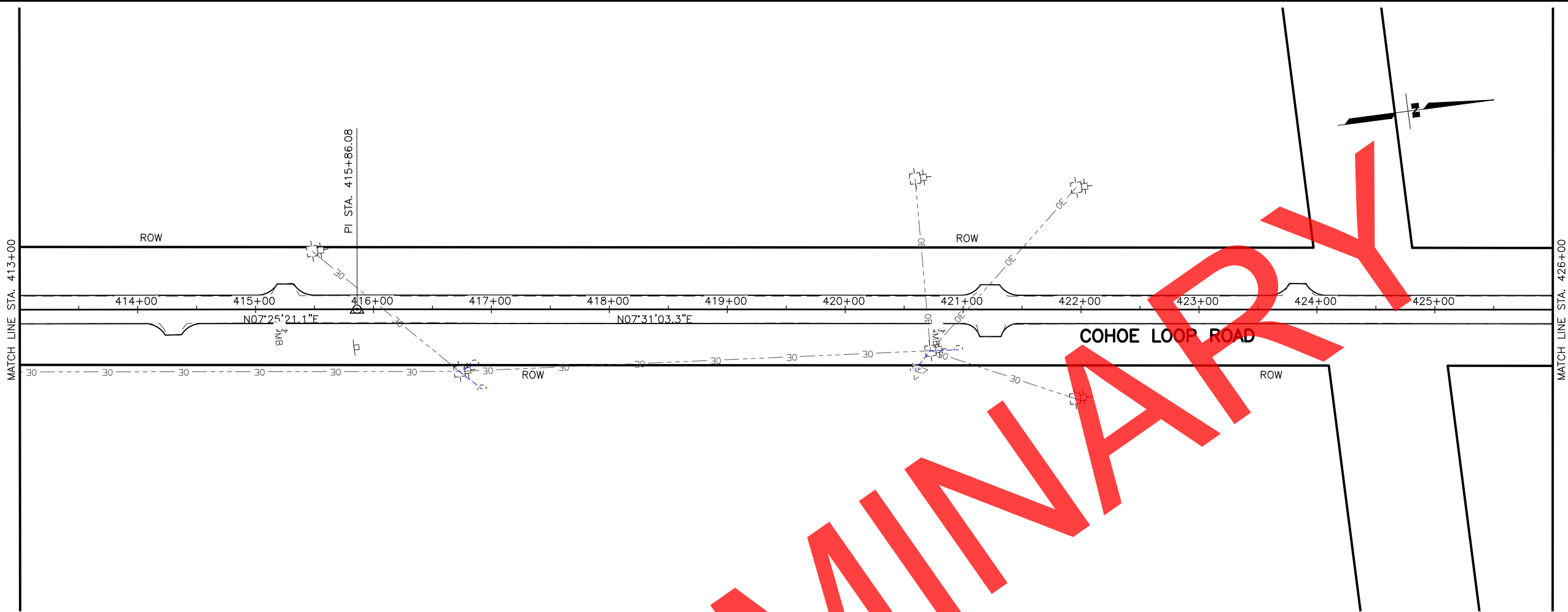
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F14	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 387+00 TO 413+00



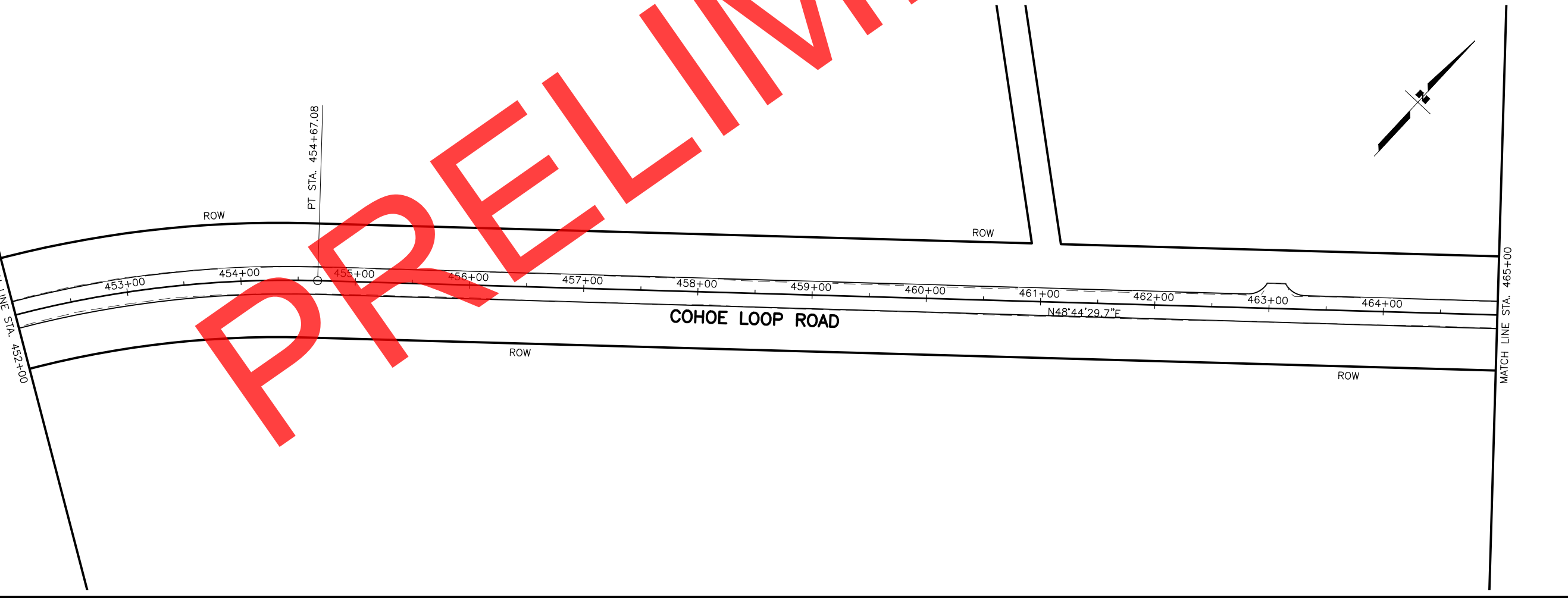
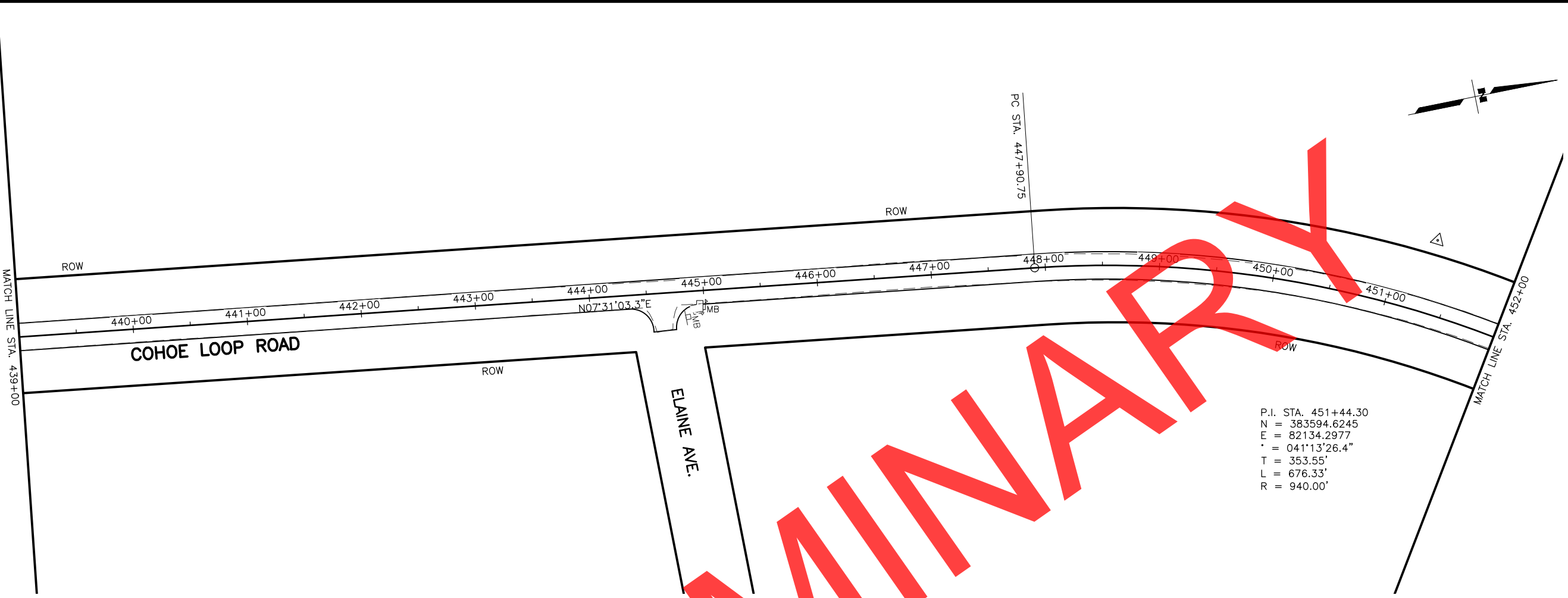
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STATE ALASKA	YEAR 2023
PROJECT DESIGNATION 0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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STATE OF ALASKA
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COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 413+00 TO 439+00



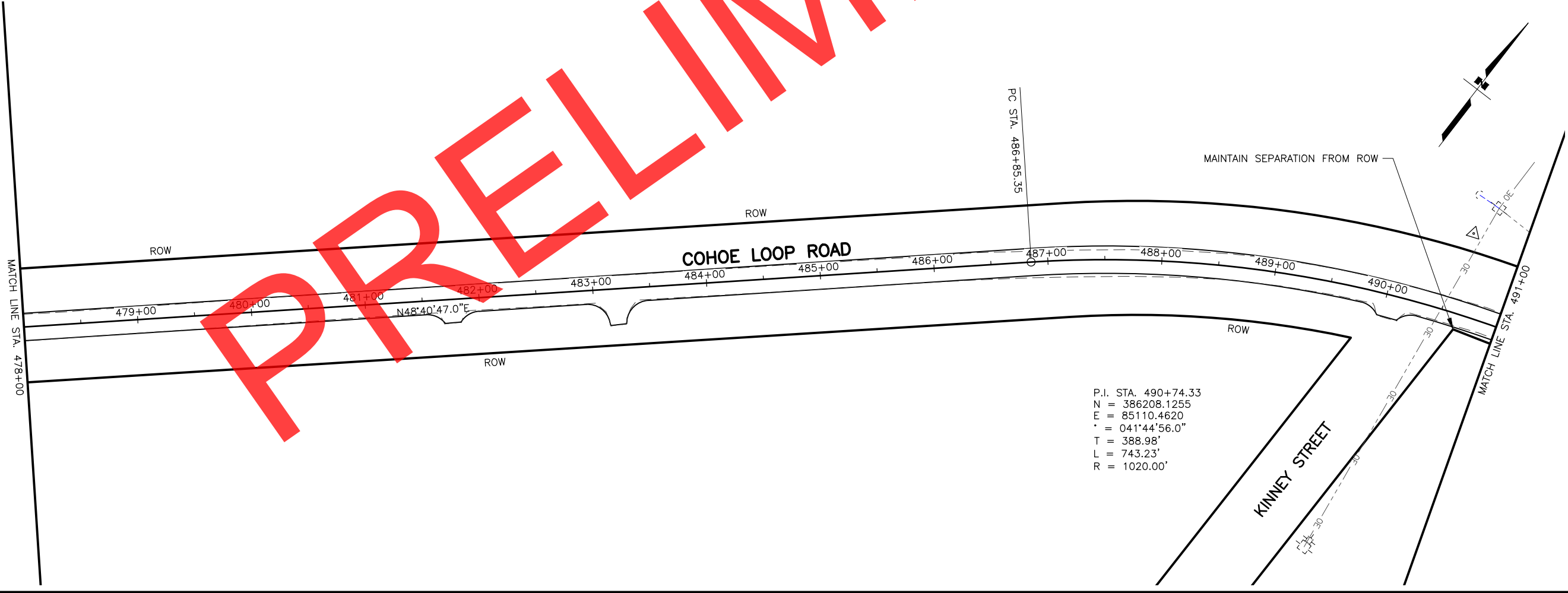
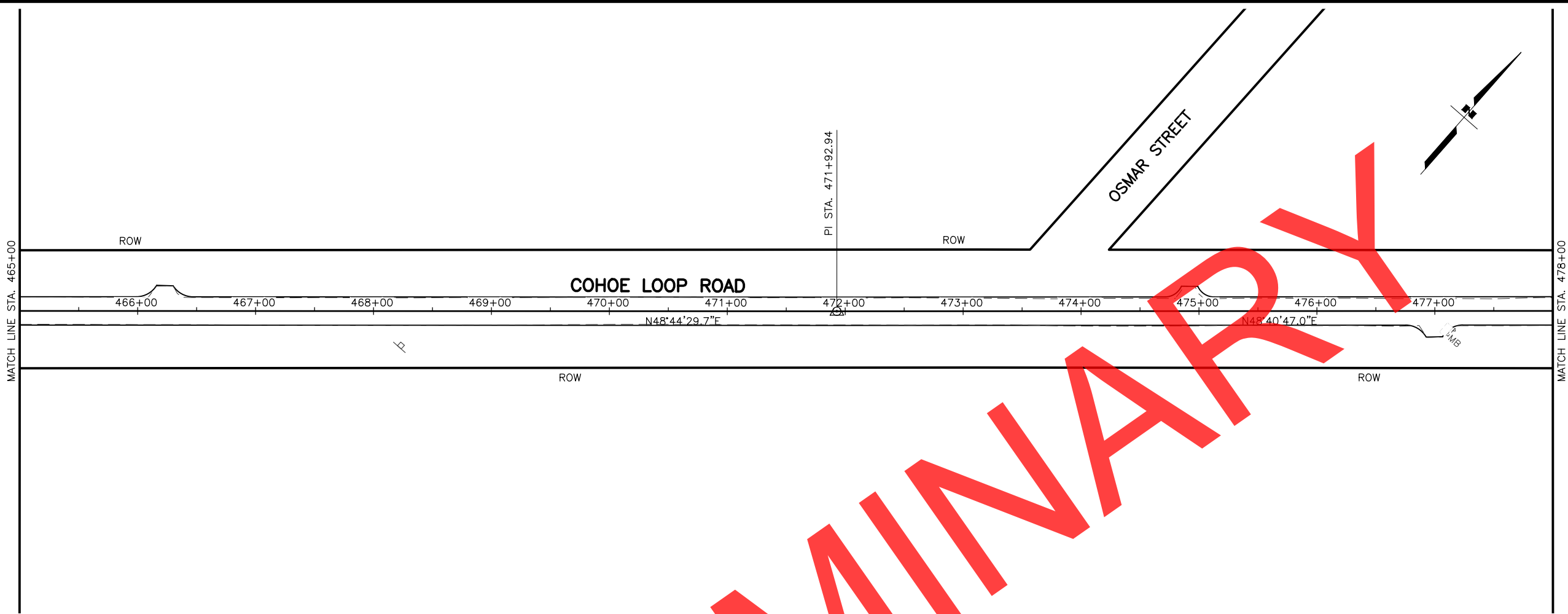
SHEET NO.	TOTAL SHEETS
F16	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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AND PUBLIC FACILITIES

COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 439+00 TO 465+00



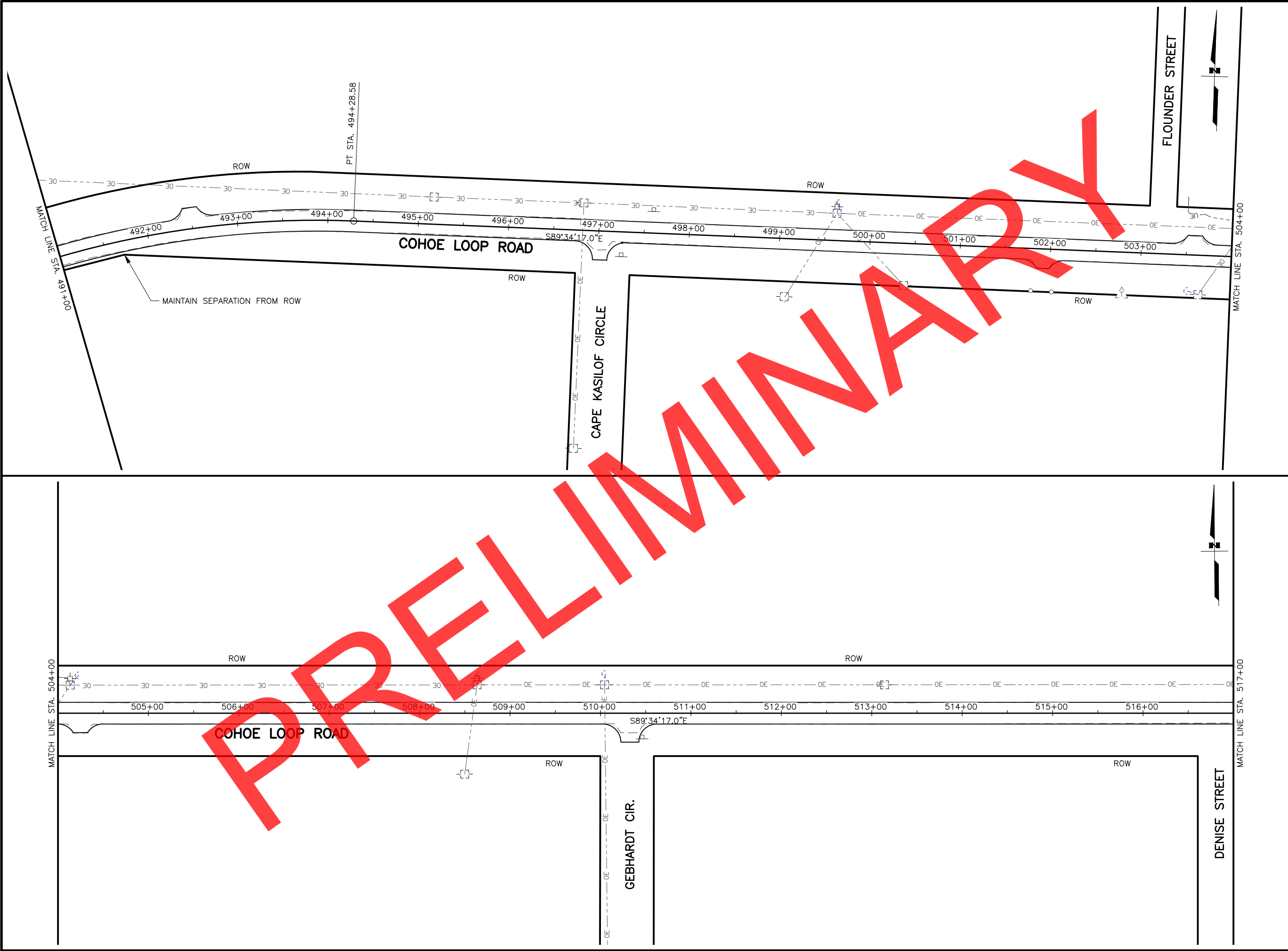
SHEET NO.	TOTAL SHEETS
F17	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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DEPARTMENT OF TRANSPORTATION
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COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 465+00 TO 491+00



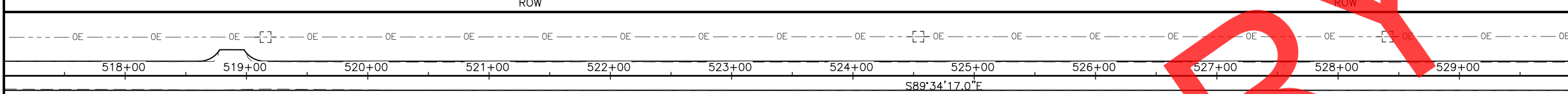
SHEET NO.	TOTAL SHEETS
F18	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

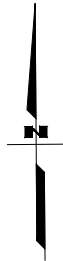
COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 491+00 TO 517+00

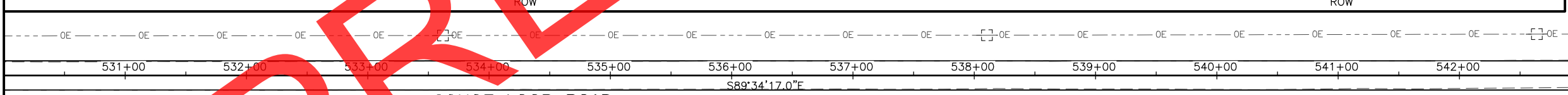
MATCH LINE STA. 517+00



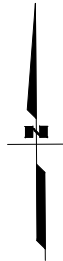
MATCH LINE STA. 530+00



MATCH LINE STA. 530+00



MATCH LINE STA. 543+00



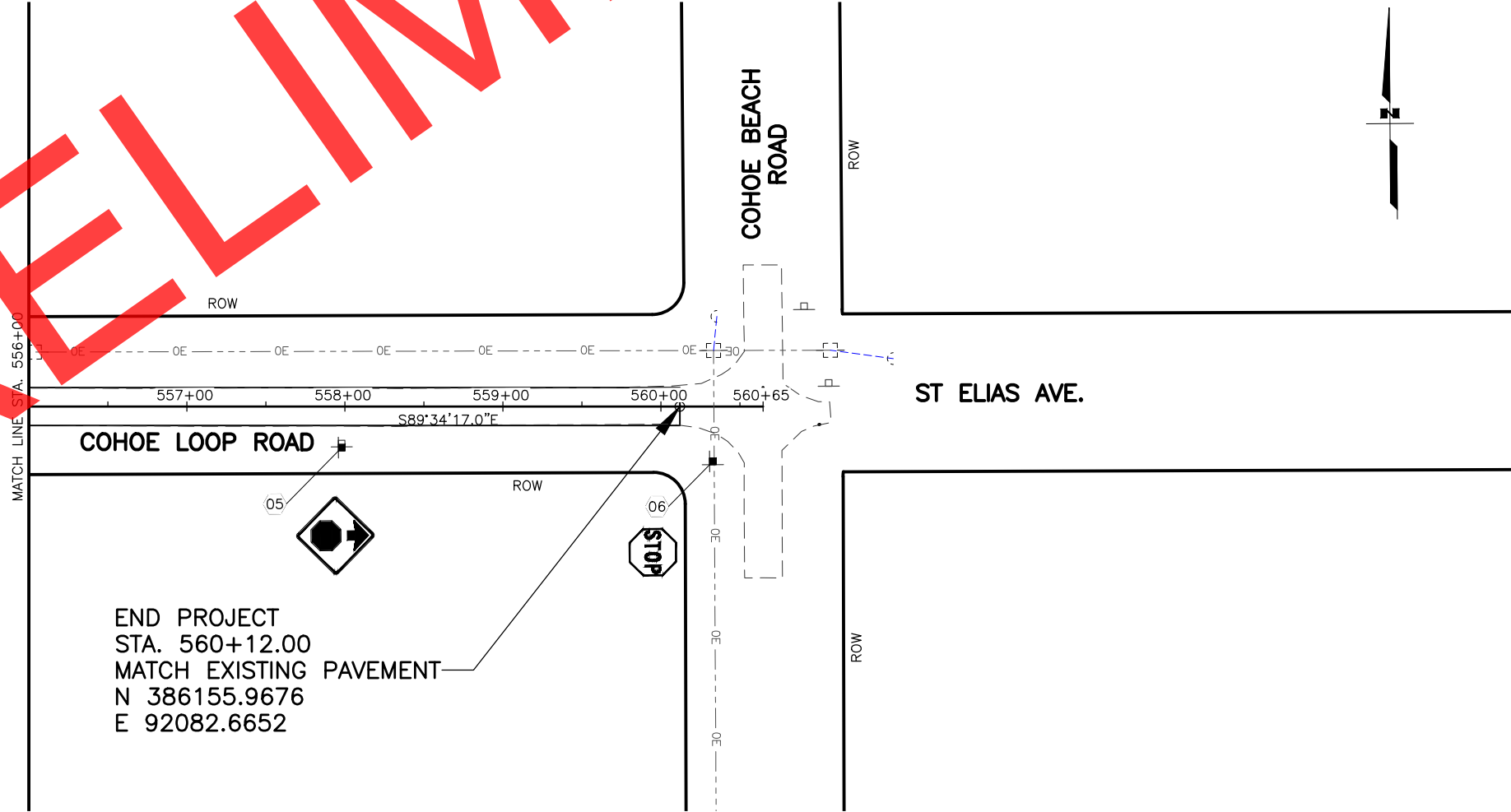
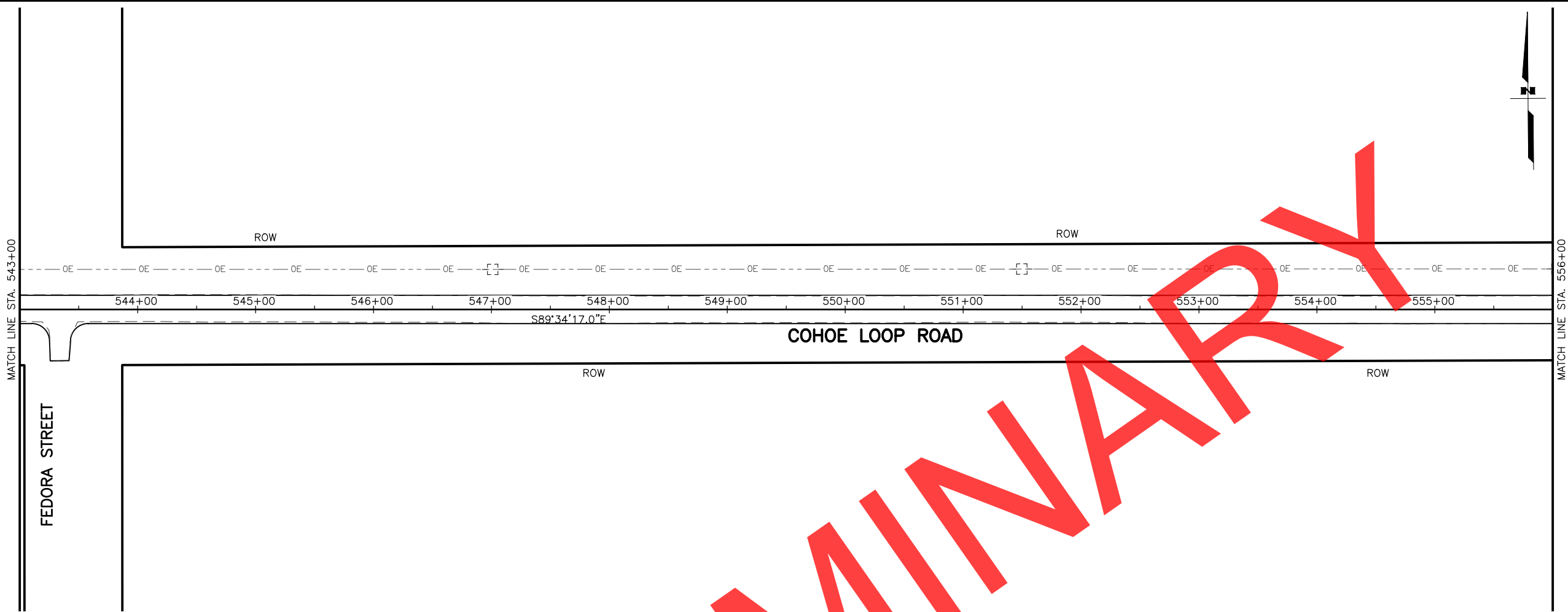
SHEET NO.	TOTAL SHEETS
F19	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 517+00 TO 543+00



SHEET NO.	TOTAL SHEETS
F20	F20
STATE	YEAR
ALASKA	2023
PROJECT DESIGNATION	
0001645/ CFHWY00490	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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COHOE LOOP ROAD
MP 0-9.7
PAVEMENT PRESERVATION

PLAN
STA. 543+00 TO END

SIGNING & STRIPING NOTES:

- ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
 - PT MEANS A PERFORATED STEEL TUBE.
 - T MEANS A SQUARE STEEL TUBE.
 - P MEANS A ROUND STEEL PIPE.
 - W MEANS A WIDE FLANGE BEAM.
 - POPL MEANS A POLE PLATE INSTALLED PER ITS ALASKA STANDARD PLAN S-23.
- FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
- FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
- FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON STANDARD PLAN S-30. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
- FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
- ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
- FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.
- SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
- ALL FINAL PAVEMENT MARKINGS SHALL BE SURFACE APPLIED AS SPECIFIED IN SECTION 670 OF THE SPECIFICATIONS.
- DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT OR FACE OF CURB WHEN PRESENT.
- IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
- WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.

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	PED I	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

CALL BEFORE YOU DIG!

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

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

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



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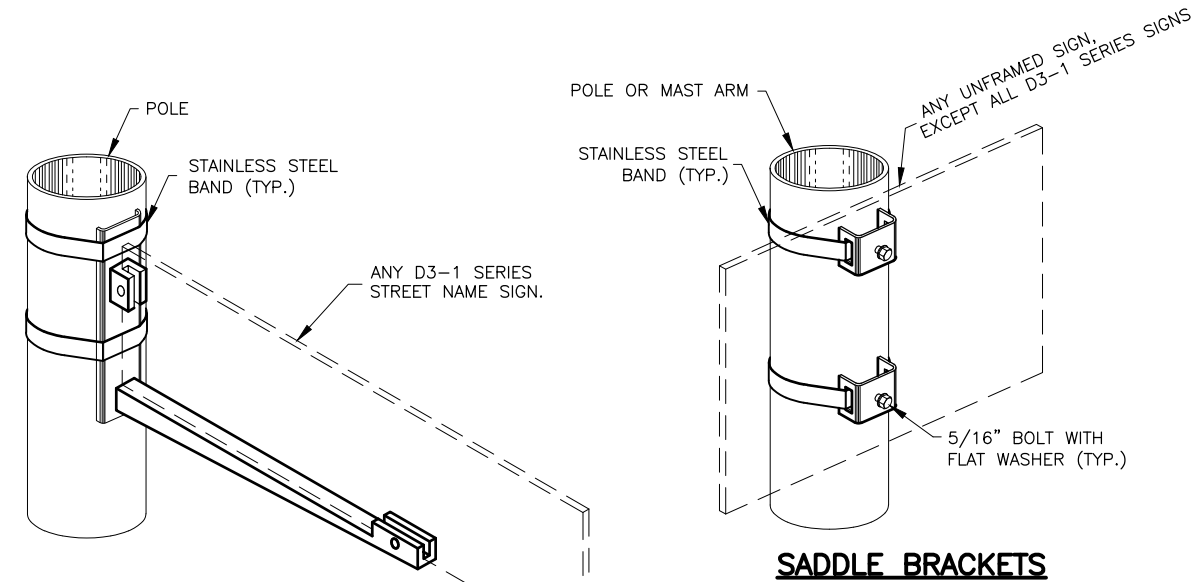
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION

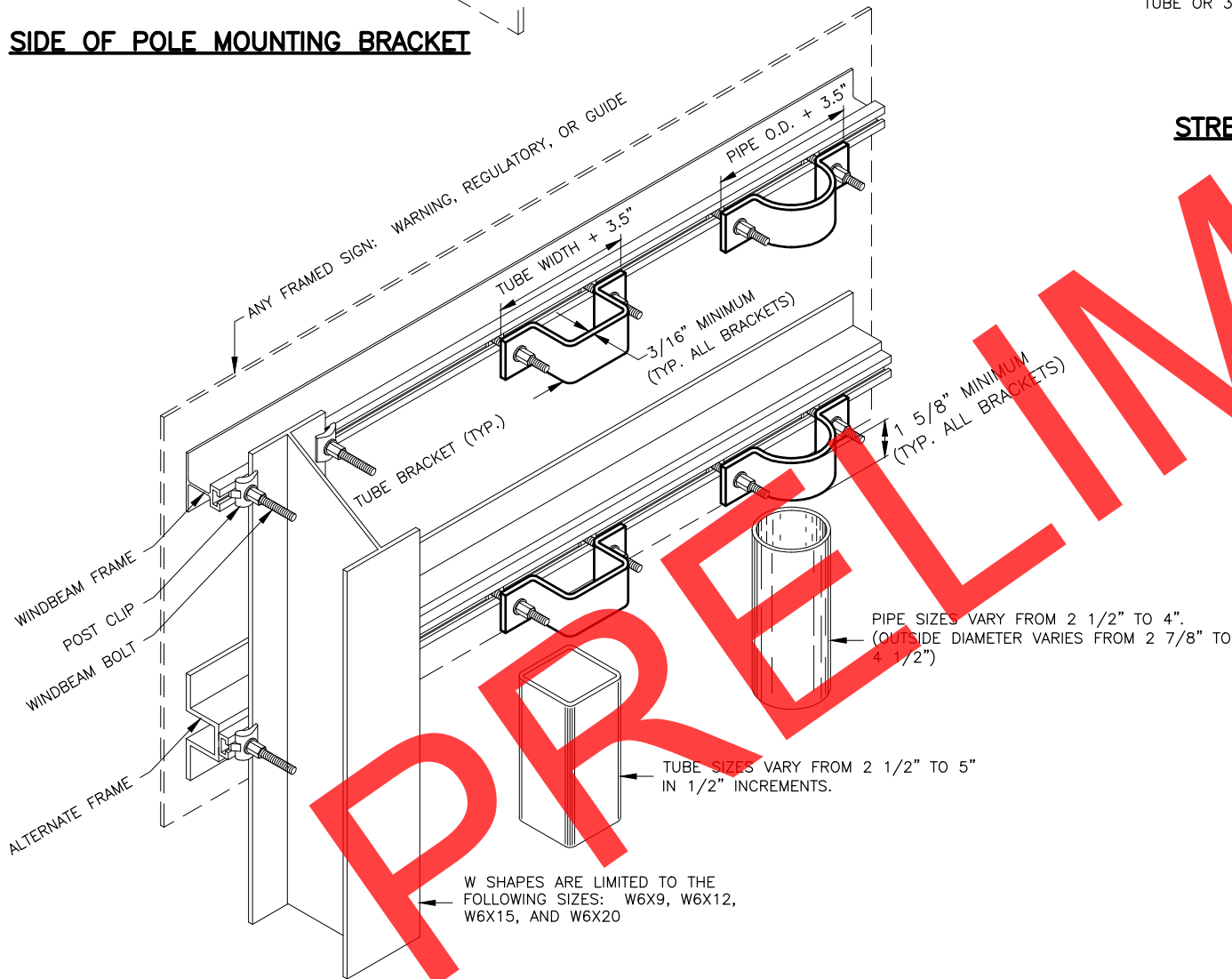
TRAFFIC NOTES

DESIGNED BY: RRH
CHECKED BY: RRH
DATE: 1/5/2023 1:25 PM
SCALE: 1" = 1'
DRAWING LOCATION: W:\PROJECTS\COHOE LOOP MP 0-9.7 PP - CFHWY00490\02-SIGN ATTACHMENT.DWG

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	H2	H5



SIDE OF POLE MOUNTING BRACKET



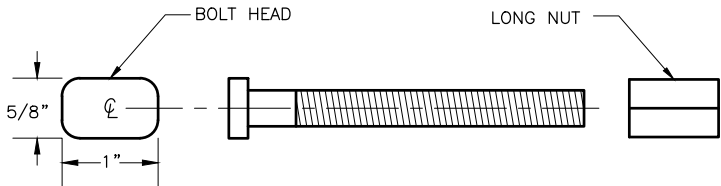
STREET NAME SIGN INSTALLATION

NOTES:

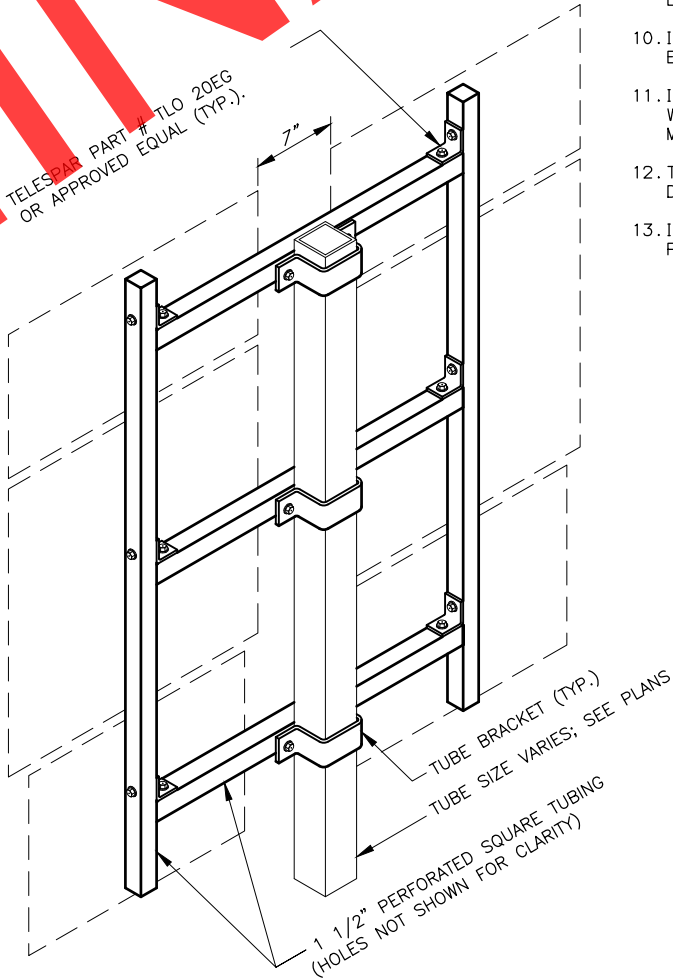
- EXCEPT FOR POLES AND MASTARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
- ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
- BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MASTARMS WITH TWO SADDLES.
- ATTACH BRACKETS TO POLES AND MASTARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
- ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
- THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
- ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
- ATTACH FRAMED SIGNS TO POLES AND MASTARMS USING POLE PLATES INSTALLED ACCORDING TO ALASKA STANDARD PLAN S-23.
- FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
- INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
- INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
- THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

FASTENER SPECIFICATION TABLE			
FASTENERS		STEEL	STAINLESS STEEL
BOLTS		ASTM A 307	ASTM F 593
NUTS	REGULAR LOCK	ASTM A 563	ASTM F 594
WASHERS		ASTM A 36	ASTM A 480
POST CLIPS			

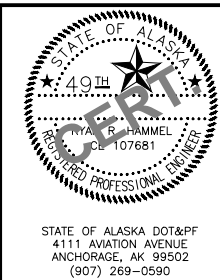
FRAMED SIGN ATTACHMENT BRACKETS



3/8" WINDBEAM BOLT AND LONG NUT



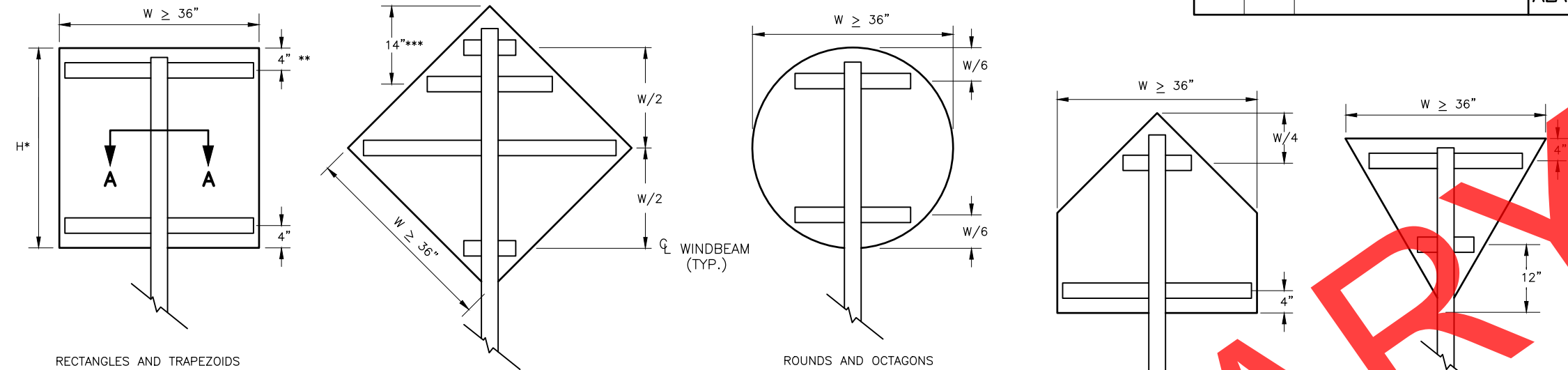
ROUTE MARKER TREE



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PAVEMENT PRESERVATION

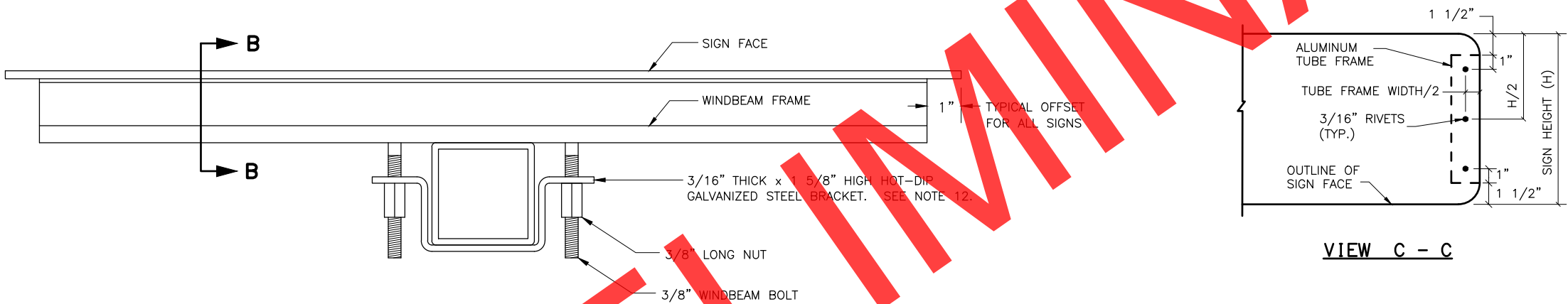
SIGN ATTACHMENT DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	H3	H5

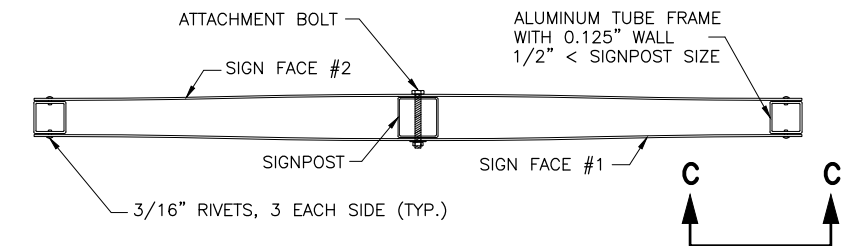


- * WHEN $H > 42$ INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.
- ** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4" .
- *** FOR WARNING SIGNS MOUNTED ON FLASHING BEACON POSTS, USE THE 14" OFFSET. OTHERWISE, USE $W/2$.

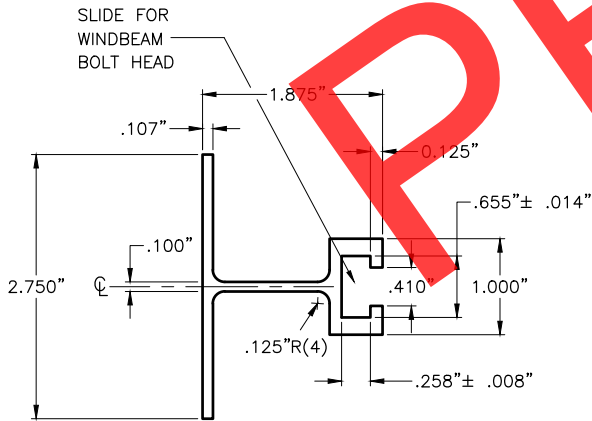
WINDBEAM LOCATIONS FOR EACH SIGN SHAPE
ELEVATION VIEW



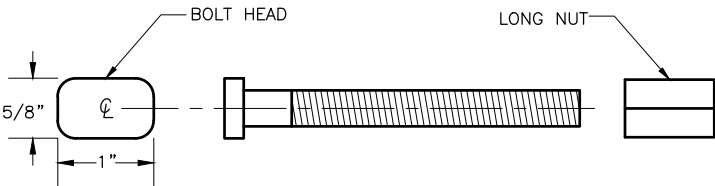
SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM



D3-1 STREET NAME SIGN FRAMING DETAIL
PLAN VIEW



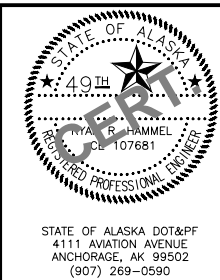
SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT

NOTES:

- EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
- INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
- IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
- THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
- THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
- USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
- EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
- ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
- WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
B. THE APPLICATION OF THE ADHESIVE TAPE.
- WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
- USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
- THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.



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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

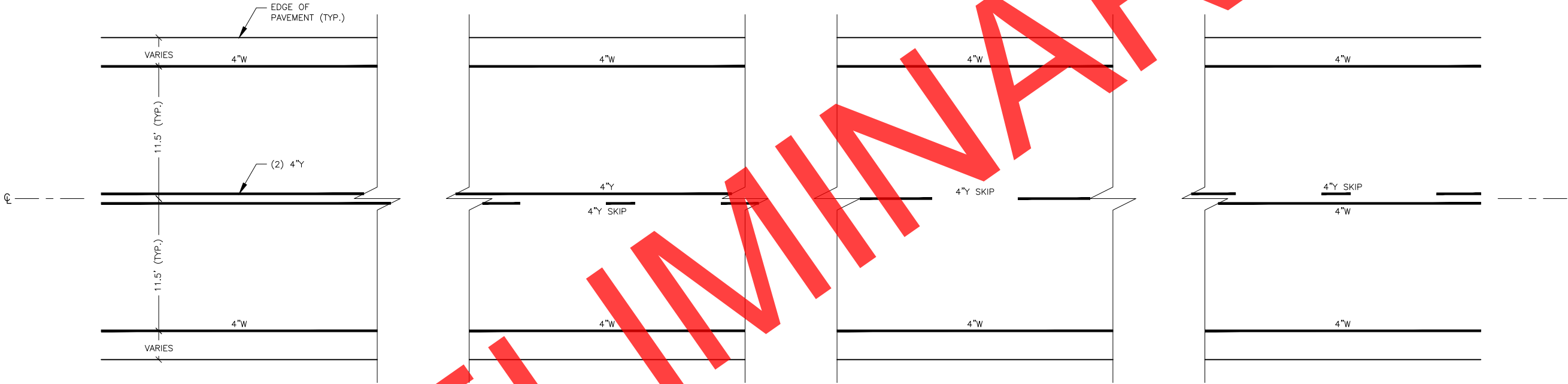
**COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION**

**LIGHT SIGN FRAMING AND
ATTACHMENT DETAILS**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001645/CFHWY00490	2023	H4	H5

NOTES:

1. ADJUST STATION RANGE AS NECESSARY BASED ON PAY ITEM 642.2008.0000



CASE I – LANE STRIPING
NO-PASSING ZONE

STA. 050+00 TO STA. 172+50
STA. 204+00 TO STA. 213+50
STA. 268+50 TO STA. 282+50
STA. 450+00 TO STA. 455+50
STA. 486+50 TO STA. 495+00
STA. 556+50 TO STA. 560+40

CASE II – LANE STRIPING
ONE DIRECTION (RIGHT) PASSING ZONE

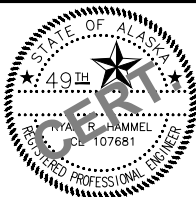
STA. 172+50 TO STA. 180+50
STA. 213+50 TO STA. 226+50
STA. 282+50 TO STA. 291+00
STA. 455+50 TO STA. 464+00
STA. 495+00 TO STA. 502+50

CASE III – LANE STRIPING
TWO DIRECTION PASSING ZONE

STA. 180+50 TO STA. 199+00
STA. 226+50 TO STA. 262+00
STA. 291+00 TO STA. 440+00
STA. 464+00 TO STA. 482+50
STA. 502+50 TO STA. 556+50

CASE IV – LANE STRIPING
ONE DIRECTION (LEFT) PASSING ZONE

STA. 199+00 TO STA. 204+00
STA. 262+00 TO STA. 268+50
STA. 440+00 TO STA. 450+00
STA. 482+50 TO STA. 486+50



STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**COHOE LOOP ROAD MP 0-9.7
PAVEMENT PRESERVATION**

STRIPING SUMMARY

SIGN SUMMARY												
SHEET NO.	SIGN NO.	STATION	OFFSET	TYPE	LEGEND	SIZE (IN)		AREA (SF)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? (YES/NO)	REMARKS
						WIDTH	HEIGHT					
F01	1	53+57.0	26 RT	R2-1		24	30	5.00	SE	1-3"T	NO	
	2	72+86	26 RT	W1-2		30	30	6.25	SE	1-3"T	NO	
				W13-1P		18	18	2.25	SE		NO	
F02	3	81+71	26 LT	W1-2		30	30	6.25	N	1-3"T	NO	
				W13-1P		18	18	2.25	N		NO	
F07	4	207+10	26 RT	S3-1		36	36	9.00	S	1-3"T	YES	
F20	5	557+98	26 RT	W3-1		30	30	6.25	W	1-3"T	NO	
F20	6	560+33	35 RT	R1-1		30	30	6.25	W	1-3"T	NO	

SALVAGE SIGN SUMMARY			
STATION	OFFSET	LEGEND	REMARKS
53+57	33 RT	SPEED LIMIT SIGN	
70+99	31 RT	WARNING CURVE SIGN	
70+99	31 RT	ADVISORY SPEED (PLAQUE)	
85+17	31 LT	WARNING CURVE SIGN	
207+10	25 RT	SCHOOL BUS STOP AHEAD	
497+60	26 LT	WARNING CURVE SIGN	
557+98	23 RT	STOP SIGN AHEAD	
560+33	35 RT	STOP SIGN	

