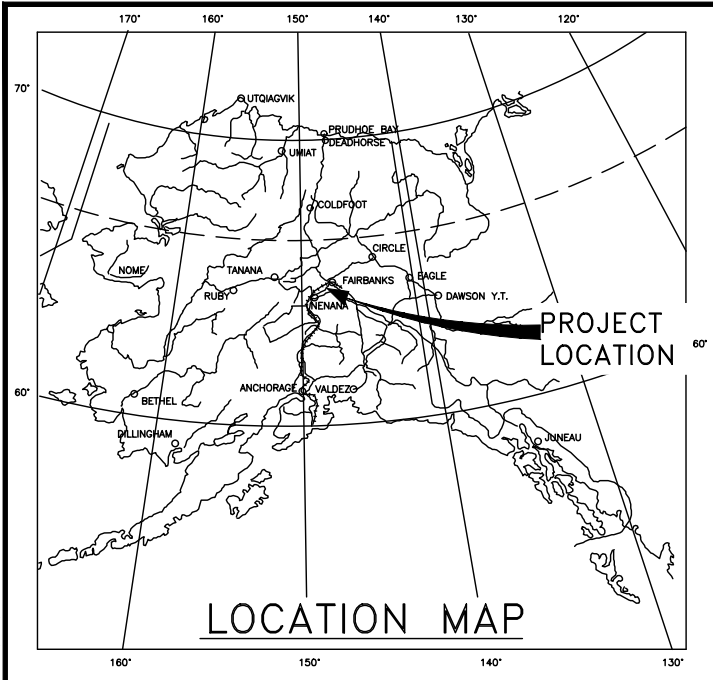


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	A1	59
CDS ROUTE: 170000		MILEPOINT: 278.349 TO 289.022		



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
PARKS HIGHWAY MP 319-325 RECONSTRUCTION
0A45028/Z606570000
GRADING, DRAINAGE, PAVING

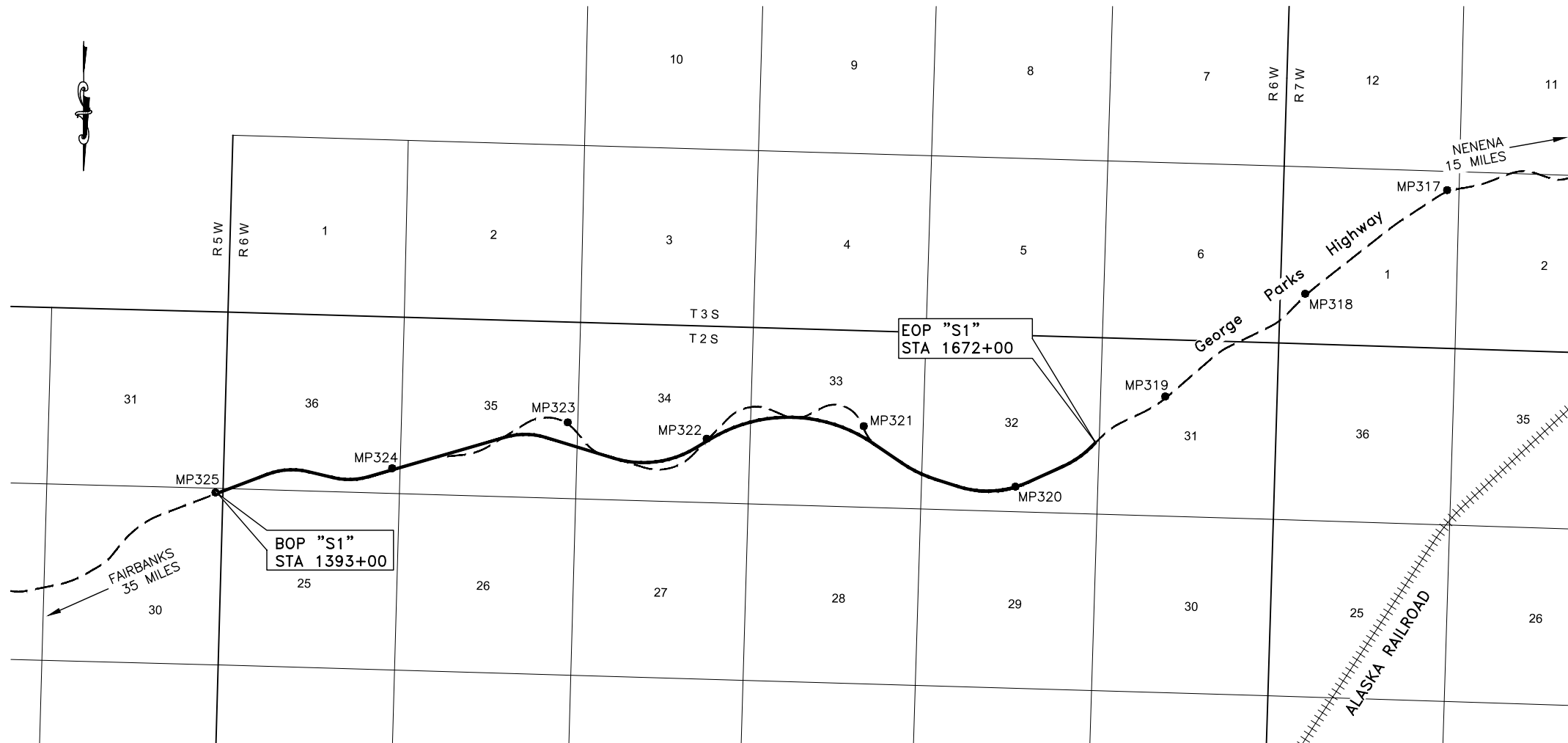
REVIEW PS&E

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3	GENERAL NOTES
A4	KEY PLAN
A5	PROJECT CONTROL
B1-B2	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	SUMMARIES
E1-E4	DETAILS
F1-F14	PLAN & PROFILE
G1-G6	APPROACHES
H1-H8	SIGNING & STRIPING
Q1-Q9	EROSION & SEDIMENT CONTROL PLAN
T1-T9	TRAFFIC CONTROL PLAN

THE FOLLOWING STANDARD PLANS APPLY TO THIS PROJECT:
C-04.12, C-05.20
D-01.20, D-04.22
G-00.05, G-05.11S, G-10.20, G-20.12, G-47.00
I-81.00
M-20.15, M-23.13
S-00.12, S-01.02, S-05.02, S-30.05, S-31.02, S-32.02
T-20.04, T-21.04

DESIGN DESIGNATIONS	
ADT (2016)	1800
ADT (2040)	2430
DHV (%)	14.5%
PERCENT TRUCKS (T)	17%
DIRECTIONAL SPLIT (D)	35/65
DESIGN SPEED (V)	70 MPH
DESIGN ESAL'S (15 YEARS)	1,530,697

PROJECT SUMMARY	
WIDTH OF PAVEMENT	40 FT
LENGTH OF GRADING	27900 FT
LENGTH OF PAVING	27900 FT
LENGTH OF PROJECT	27900 FT



JENNIFER WRIGHT, P.E., PROJECT MANAGER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY: _____ DATE _____

Sarah E. Schacher, P.E.
Preconstruction Engineer, Northern Region

ACCEPTED FOR CONSTRUCTION: _____ DATE _____
Ryan F. Anderson, P.E.
Regional Director, Northern Region

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	A2	A5

RECOVERED SET

EXISTING PROPOSED

USC&GS MONUMENT	
PRIMARY MONUMENT	
CENTERLINE MONUMENT IN CASING	
PRIMARY R.O.W. MONUMENT	
BENCHMARK	
REBAR AND CAP	
CONSTRUCTION CENTERLINE	
MISCELLANEOUS CENTERLINE	
STATION EQUATION	
PROJECT RIGHT-OF-WAY LINE	
EXISTING RIGHT-OF-WAY LINE	
EXISTING PROPERTY LINE	
TEMPORARY EASEMENT LINE (TCP OR TCE)	
ACCESS OR SECTION LINE EASEMENT	
PROPOSED CUT SLOPE LIMIT	
PROPOSED FILL SLOPE LIMIT	
SECTION LINE	
1/4 SECTION LINE	
1/16 SECTION LINE	
TOWNSHIP & RANGE LINE	

ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
GCI FIBER OPTIC		
ROADWAY/PAVEMENT EDGE		
FENCE		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX		
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS		
TEST HOLE		
CONIFER TREE		
DECIDUOUS TREE		

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

ABBREVIATIONS

Δ	CENTRAL ANGLE OF CURVE
ACS	ALASKA COMMUNICATIONS SYSTEMS
ADT	AVERAGE DAILY TRAFFIC
BFS	BEGIN FULL SUPER
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
BNC	BEGIN NORMAL CROWN
BNS	BEGIN NORMAL SHOULDER
BOP	BEGINNING OF PROJECT
BP	BEGIN POINT
CL	CENTERLINE
COM	COMMERCIAL
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARDS
D	DEGREE OF CURVATURE
DEMO	DEMOLITION
DHV	DESIGN HOURLY VOLUME
DNR	DEPARTMENT OF NATURAL RESOURCES
DOR	DESIGNER OF RECORD
DRWY	DRIVEWAY
E	EASTING
EFS	END FULL SUPER
EG	EXISTING GROUND
ELEV, EL	ELEVATION
ENC	END NORMAL CROWN
EOA	END OF ALIGNMENT
EOP	END OF PROJECT
EP	END POINT
EQU	EQUATION
ESAL	EQUIVALENT SINGLE AXLE LOAD
ESCP	EROSION AND SEDIMENT CONTROL PLAN
EX	EXISTING
FG	FINISHED GRADE
FT	FEET
GALV	GALVANIZED
HT	HEIGHT
HWY	HIGHWAY
IN	INCHES
L	LENGTH OF CURVE
LBS	POUNDS
LC	LEVEL CROWN
LDP	LOW DISTORTION PROJECTION
LF	LINEAR FOOT
LP	LOW POINT
LS	LUMP SUM
LT	LEFT
LVC	LENGTH VERTICAL CURVE
MAX	MAXIMUM
MB	MAILBOX
MIN	MINIMUM
MSF	THOUSAND SQUARE FEET
N	NORTHING
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
P.C.C.	POINT OF CURVATURE ON CURVE
P.E.	PROFESSIONAL ENGINEER
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PT	POINT OF TANGENCY
R	RADIUS OF CURVE
RC	REVERSE CROWN
RD	ROAD
ROW, R/W	RIGHT OF WAY
RT	RIGHT
S	SUPERELEVATION
SF	SQUARE FEET
STA	STATION
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SY	SQUARE YARD

T	TANGENT LENGTH
TBM	TEMPORARY BENCHMARK
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCP	TEMPORARY CONSTRUCTION PERMIT
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W, WTR	WATER

PLAN VIEW KEY

STATION DIAMETER X LENGTH INSTALL CULVERT PIPE	STATION TYPE, WIDTH CONSTRUCT APPROACH
STATION DIAMETER X LENGTH REMOVE PIPE	STATION SIGN CODE(S) SIGN LOCATION #
STATION DIAMETER X LENGTH ABANDON IN PLACE	STATION DIAMETER X LENGTH CLEAN CULVERT PIPE

LEGEND

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PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	A3	A5

GENERAL NOTES:

1. PERFORM ALL WORK WITHIN THE ESTABLISHED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION PERMIT AND TEMPORARY CONSTRUCTION EASEMENT AREAS.
2. PRESERVE EXISTING PRIMARY AND SECONDARY MONUMENTS TO THE EXTENT PRACTICABLE. REPLACE MONUMENTS DISTURBED BY CONSTRUCTION ACTIVITIES AS FOLLOWS: REPLACE DESTROYED MONUMENTS WITH 2 REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION FOOTPRINT. THIS WORK WILL NOT BE MEASURED OR PAID FOR DIRECTLY, BUT IS SUBSIDIARY TO PAY ITEM 642.0001.0000.
3. FUEL STORAGE WILL NOT BE ALLOWED WITHIN 100-FT OF WATER BODIES AND MUST HAVE SECONDARY CONTAINMENT.

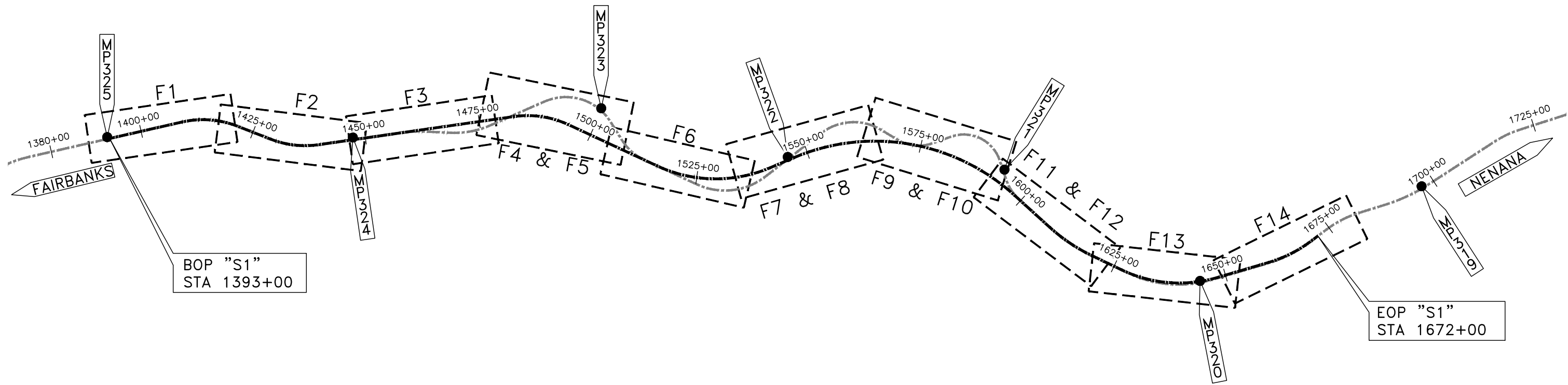
UTILITY NOTES:

1. LOCATE AND PROTECT ALL UTILITIES PRIOR TO CONSTRUCTION. ALL UTILITIES WITHIN THE PROJECT SHALL REMAIN IN PLACE AND IN SERVICE DURING CONSTRUCTION. THE PRESENCE AND LOCATION OF UTILITIES SHOWN ARE BASED OFF OF LIMITED SURVEY, UTILITY PERMITS & SYSTEM MAPS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PRESENCE AND LOCATION OF UTILITIES IN THE FIELD PRIOR TO PERFORMING ANY EARTH DISTURBING ACTIVITIES. CALL THE DIGLINE AT 1-800-478-3121 OR 811 FOR LOCATES, OR THE UTILITY OWNER DIRECTLY.
2. PROTECT OR REMOVE AND REPLACE EXISTING UTILITY MARKER POSTS. THIS WORK IS SUBSIDIARY TO OTHER PAY ITEMS.

GENERAL NOTES

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07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	A4	A5



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 C:\Users\craig.lennatta\AppData\Local\Benitey\projectwise\workingdir\mb-us-pw-02\craig.lennatta@mbakerintl.com\dms36708\60657_A_Key-KEY PLAN Fri, Jul/09/21 07:30pm

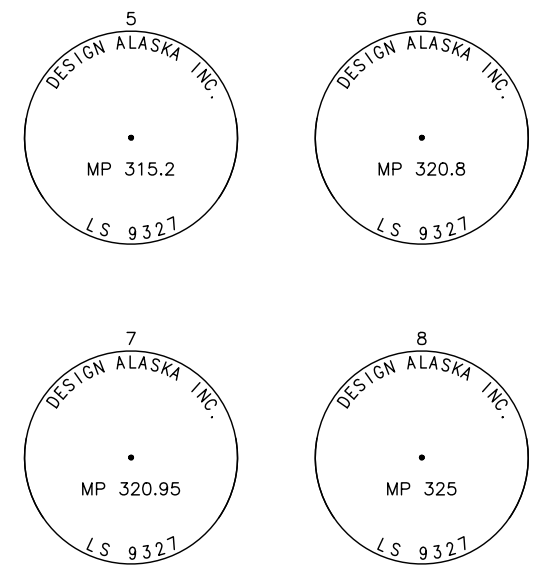
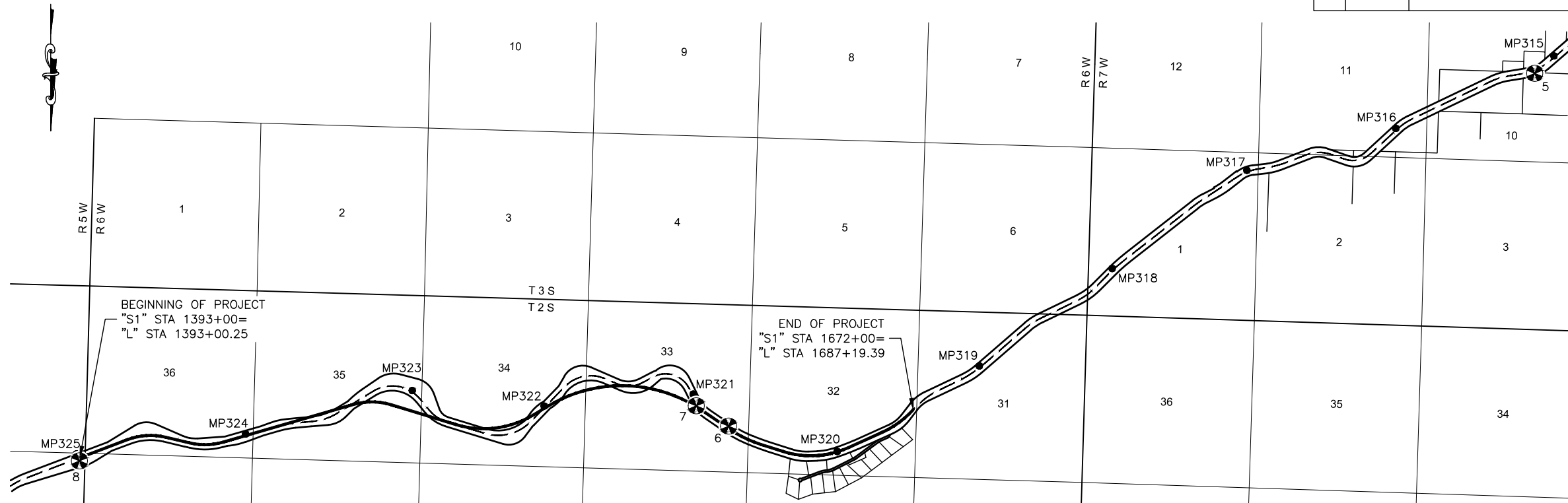
BOP "S1"
STA 1393+00

EOP "S1"
STA 1672+00

KEY PLAN

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07/2021

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A45028/Z606570000	2021	A5	A5



NOTES:

1. THE BASIS OF COORDINATES IS THE NAD83(2011)(EPOCH: 2010.0000) OPUS AVERAGED POSITION OF SURVEY CONTROL MONUMENT #5 "MP 315.2".

NAD 83 LATITUDE AND LONGITUDE
 LATITUDE 64°40'06.914700" N, LONGITUDE 148°56'08.109993" W

NAD 83 STATE PLANE ZONE 4 (METERS)
 N: 1188781.772 METERS, E: 550828.624 METERS

PROJECT (GROUND) COORDINATES (US SURVEY FEET)
 N: 138603.31 FEET, E: 486308.38 FEET

THE BASIS OF ELEVATIONS IS THE OPUS AVERAGED GEOID 12B (NAVD88) ELEVATION OF 412.16 FEET AT SURVEY CONTROL MONUMENT #5 "MP 315.2".

2. PROJECT IS LOCATED ENTIRELY WITHIN THE FAIRBANKS, ALASKA LOW DISTORTION PROJECTION (LDP), A LOCAL, LOW DISTORTION GRID COORDINATE SYSTEM, EXPRESSED IN US SURVEY FEET, DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES. FAIRBANKS LDP DEFINITION:

PROJECTION TYPE: LAMBERT CONFORMAL CONIC, 1-PARALLEL
 STANDARD PARALLEL: 64°51'00.0"N (64.85)
 LATITUDE OF GRID ORIGIN: 64°51'00.0"N (64.85)
 CENTRAL MERIDIAN (GRID ORIGIN): 146°56'00.0"W (-146.933333333333)
 FALSE NORTHING: 200000.0 FEET
 FALSE EASTING: 800000.0 FEET
 GRID SCALE FACTOR: 1.00003 (EXACT)
 LINEAR UNIT: SURVEY FEET
 DATUM: NAD 1983-2011
 ELLIPSOID: GRS 1980
 SEMI-MAJOR AXIS (M): 6378137.0
 INVERSE FLATTENING: 298.257222101

3. DISTANCES ARE IN FEET ALONG THE GROUND.

4. THE BASIS OF COORDINATES AND ELEVATIONS WERE DERIVED FROM STATIC GPS OBSERVATIONS CONDUCTED BY DESIGN ALASKA, INC. IN SEPTEMBER OF 2015.

5. THE BASIS OF STATIONING FOR THIS PROJECT IS THE CALCULATED PT AT RECOVERED CONCRETE RIGHT OF WAY MONUMENTS AT STATION "L" 1375+23.83 PT FROM STATE OF ALASKA DEPARTMENT OF HIGHWAYS RIGHT OF WAY MAP NO. F-037-1(13) TITLED "FROM 25 MI. S.W. OF ESTER SOUTHWEST" APPROVED AUGUST 6, 1965.

6. CENTERLINE STATIONING AND ALIGNMENT CALCULATED FROM:

6.1. TANGENTS DEFINED BY RECOVERED CENTERLINE MONUMENTS BETWEEN STATIONS 1604+95.56 AND 2210+50.74 (F-037-1(13) APPROVED 1965)

6.1.1. NOTE THAT CENTERLINE MONUMENTS WERE ESTABLISHED ON THE "O" LINE OF F-037-1(13) BETWEEN STATIONS 1912+52.75 AND 2086+45.84

7. MONUMENT #5 IS LOCATED 4.34 MILES SOUTH OF THE END OF PROJECT.

SURVEY CONTROL MONUMENTS								
POINT NO.	EXISTING "L" STATION	EXISTING "L" OFFSET	FUTURE "S1" STATION	FUTURE "S1" OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
8	1392+56.80	91.52 RT	1392+56.55	91.52 RT	150830.32	532210.16	1328.08	PRIM MON SET MP 325
7	1610+89.07	55.04 RT	1595+79.99	21.90 LT	149093.37	512755.10	969.34	PRIM MON SET MP 320.95
6	1622+80.59	61.58 LT	1607+81.80	61.58 LT	149733.58	511735.76	931.38	PRIM MON SET MP 320.8
5	1916+61.98	96.66 RT	--	--	138603.31	486308.38	412.16	PRIM MON SET MP 315.2

"S1" ALIGNMENT COORDINATES			
DESCRIPTION	STATION	NORTHING	EASTING
BOP	1393+00.00	150729.35	532201.90
PI	1415+23.91	149935.69	530104.38
PI	1434+42.91	150388.19	528207.87
PI	1488+64.41	148876.72	522970.65
PI	1528+62.28	150074.85	519055.26
PI	1572+51.16	147615.12	514949.50
PI	1614+12.81	150142.33	511245.99
PI	1637+47.48	150865.71	508969.64
PI	1664+94.10	149713.93	506415.16
EOP	1672+00.00	149212.48	505910.45

PROJECT CONTROL

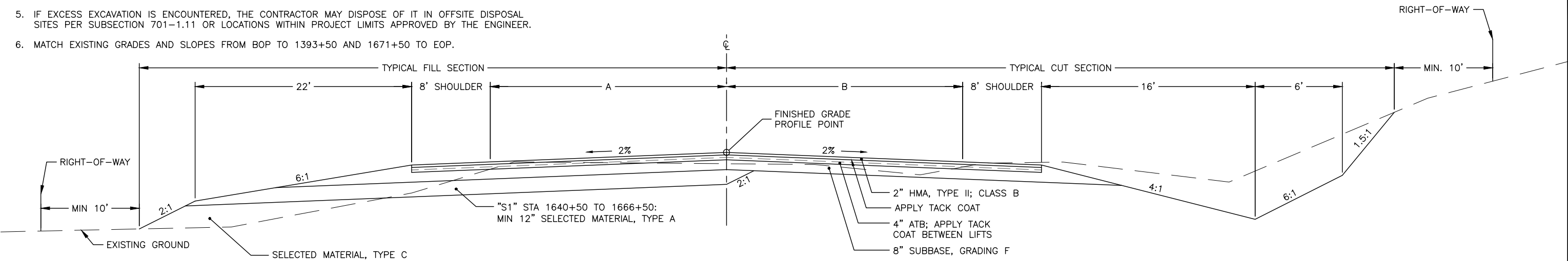
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	B1	B2

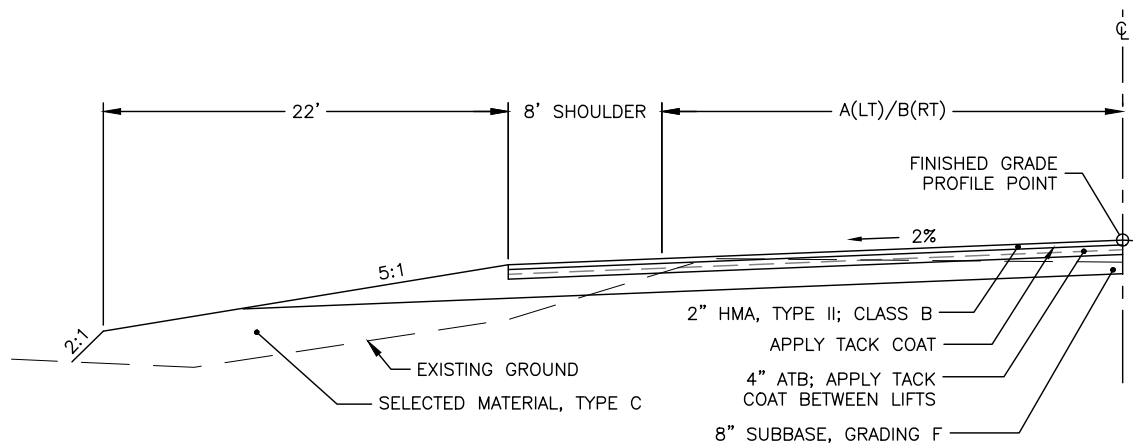
GENERAL TYPICAL SECTION NOTES:

1. REMOVAL OF ASPHALT WILL BE PAID FOR UNDER 202.0002.0000.
2. REMOVE EXISTING ORGANIC MAT UNDER PROPOSED ALIGNMENT AND TOE IN UNDISTURBED LOCATIONS PRIOR TO PLACING BORROW, PAID FOR AS 201.0009.0000 CLEARING AND GRUBBING.
3. POINT OF SUPERELEVATION ROTATION IS ABOUT CENTERLINE.
4. BENCH CUT SLOPS GREATER THAN 30 FT MAY REQUIRE MULTIPLE BENCHES TO DAYLIGHT. BENCHES WITHIN 5 FT OF THE DAYLIGHTING CAN BE ELIMINATED WITH APPROVAL OF THE ENGINEER.
5. IF EXCESS EXCAVATION IS ENCOUNTERED, THE CONTRACTOR MAY DISPOSE OF IT IN OFFSITE DISPOSAL SITES PER SUBSECTION 701-1.11 OR LOCATIONS WITHIN PROJECT LIMITS APPROVED BY THE ENGINEER.
6. MATCH EXISTING GRADES AND SLOPES FROM BOP TO 1393+50 AND 1671+50 TO EOP.



TYPICAL SECTION - EXISTING ALIGNMENT

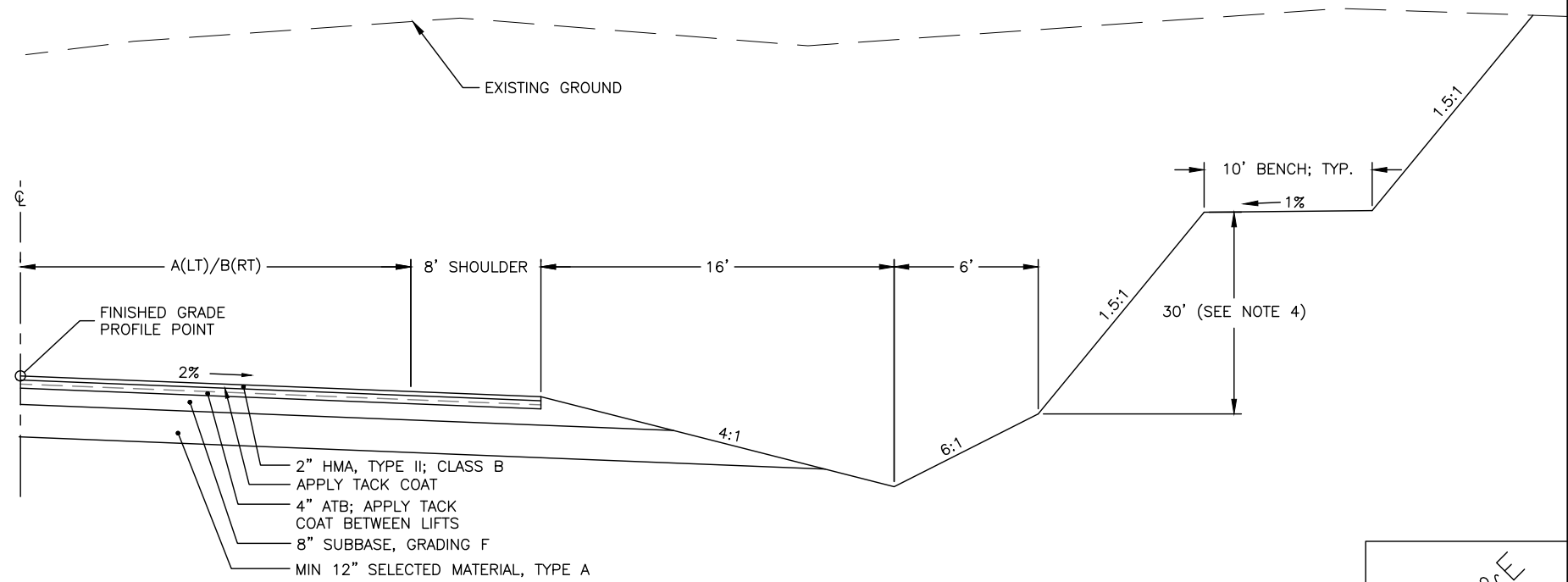
"S1" STA 1393+00 TO 1465+00
"S1" STA 1640+50 TO 1672+00



SLOPE ADJUSTMENT

APPLIES TO BOTH RIGHT AND LEFT SIDE OF CENTERLINE
"S1" STA 1396+00 TO 1409+00

NUMBER OF 12' LANES		
STATION RANGE	A	B
1393+00 TO 1547+00	1	1
1546+89 TO 1555+40	LANE DROP TAPER	1
1555+40 TO 1599+00	2	1
1599+00 TO 1608+00	LANE ADD TAPER	LANE ADD TAPER
1608+00 TO 1663+00	1	2
1663+00 TO 1671+40	1	LANE DROP TAPER
1671+40 TO 1672+00	2	1



TYPICAL SECTION CUT

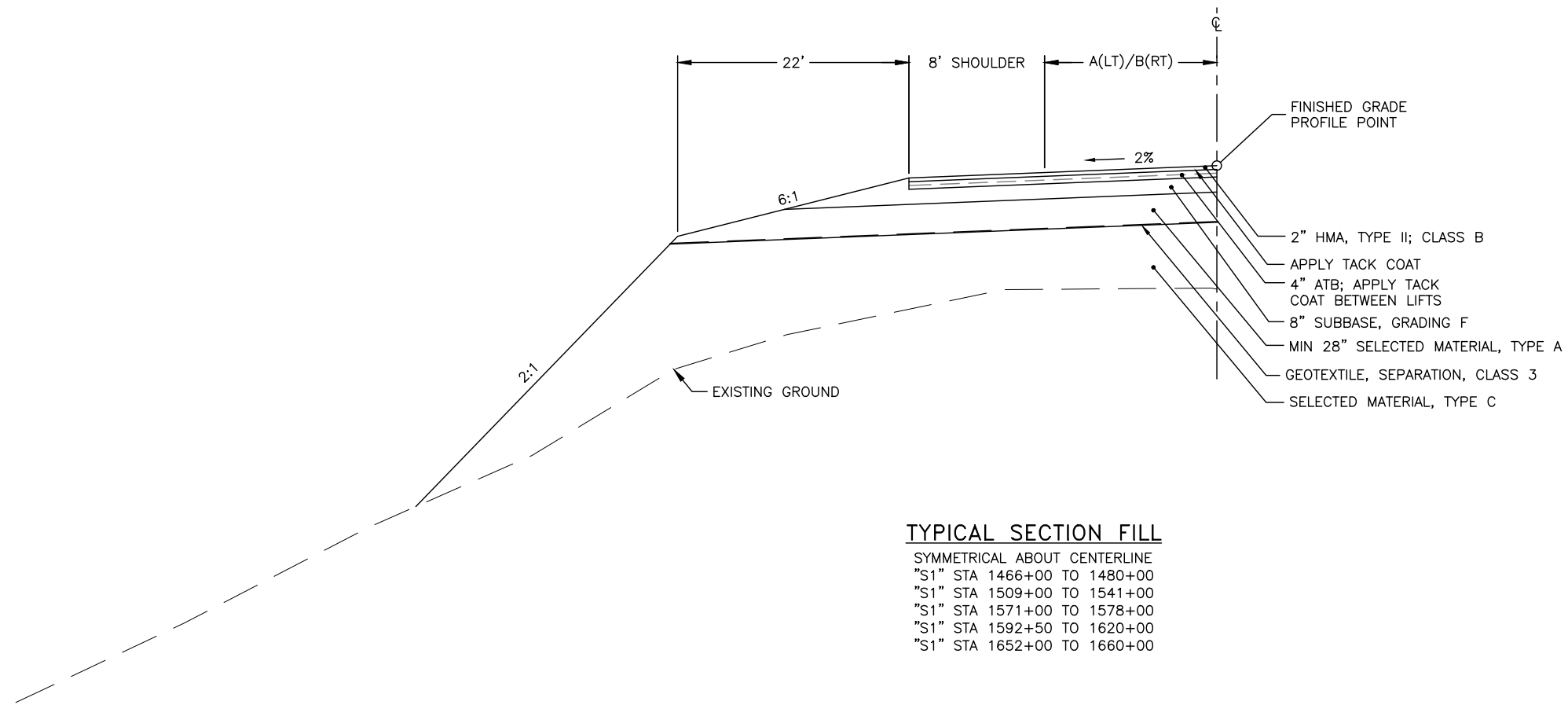
SYMMETRICAL ABOUT CENTERLINE
"S1" STA 1485+00 TO 1509+00
"S1" STA 1546+00 TO 1571+00
"S1" STA 1578+00 TO 1592+50

TYPICAL SECTIONS
1 OF 2

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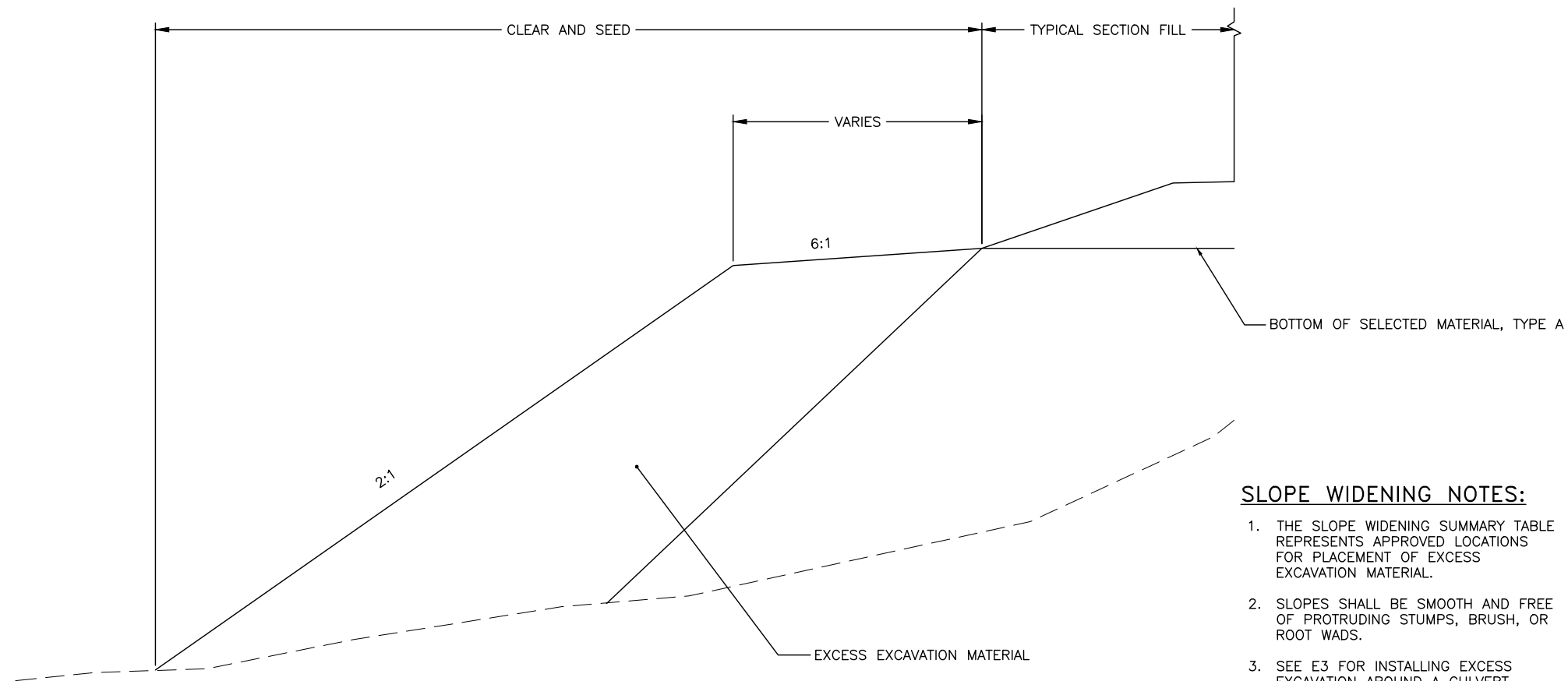
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	B2	B2



TYPICAL SECTION FILL

SYMMETRICAL ABOUT CENTERLINE
 "S1" STA 1466+00 TO 1480+00
 "S1" STA 1509+00 TO 1541+00
 "S1" STA 1571+00 TO 1578+00
 "S1" STA 1592+50 TO 1620+00
 "S1" STA 1652+00 TO 1660+00



SLOPE WIDENING NOTES:

1. THE SLOPE WIDENING SUMMARY TABLE REPRESENTS APPROVED LOCATIONS FOR PLACEMENT OF EXCESS EXCAVATION MATERIAL.
2. SLOPES SHALL BE SMOOTH AND FREE OF PROTRUDING STUMPS, BRUSH, OR ROOT WADS.
3. SEE E3 FOR INSTALLING EXCESS EXCAVATION AROUND A CULVERT.

SLOPE WIDENING SUMMARY				
STATION		EXTENDED 6:1 WIDTH		REMARKS
FROM	TO	LEFT	RIGHT	
1397+50	1400+00	20	20	
1405+00	1409+00	20	20	
1468+00	1470+00		30	
1470+00	1474+00		50	
1474+00	1476+00		30	
1527+00	1528+00		50	
1528+00	1541+00		80	
1592+50	1597+50	75		
1597+50	1601+00	25		
1601+00	1604+00	60		
1604+00	1639+00	75		
1639+00	1650+50	60		

TYPICAL SECTIONS
2 OF 2

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07/2021

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	C1	C1

ESTIMATE OF QUANTITIES

ITEM NO.	PAY ITEM	UNIT	QUANTITY
201.0003.0000	CLEARING AND GRUBBING	ACRE	138
202.0002.0000	REMOVAL OF PAVEMENT	SQUARE YARD	90900
202.0011.0000	MULTIPLE MAIL BOX INSTALLATION	EACH	1
202.0017.0000	REMOVAL OF CULVERT PIPE	EACH	4
202.0021.0000	REMOVAL OF MULTIPLE MAILBOX	EACH	1
202.2015.0000	ABANDON PIPE IN PLACE	EACH	7
203.0002.0000	ROCK EXCAVATION	CY	670400
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	2640000
203.0006.000A	BORROW, TYPE A	TON	187800
204.2004.0000	EMBEDMENT MATERIAL	TON	78700
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	160
301.0003.00E1	AGGREGATE SURFACE COURSE, GRADING E-1	TON	1410
304.0001.000F	SUBBASE, GRADING F	TON	85500
306.0001.0000	ATB	TON	34900
306.0002.5228	ASPHALT BINDER, GRADE PG 52-28	TON	1730
401.0001.002B	HMA, TYPE II, CLASS B	TON	18400
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	TON	1120
401.0008.002B	HMA PRICE ADJUSTMENT, TYPE 2, Class B	CONTINGENT SUM	ALL REQUIRED
401.0009.0000	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
401.0010.0000	PAVEMENT SMOOTHNESS PRICE ADJUSTMENT, METHOD ____	CONTINGENT SUM	ALL REQUIRED
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	110
406.0003.0000	RUMBLE STRIPS	LUMP SUM	ALL REQUIRED
603.0001.0012	CSP 12 INCH	LINEAR FOOT	62
603.0001.0036	CSP 36 INCH	LINEAR FOOT	1571
606.0001.0000	W-BEAM GUARDRAIL	LINEAR FOOT	400
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	8005
606.2019.0000	ADDITIONAL GUARDRAIL	CONTINGENT SUM	ALL REQUIRED
611.0001.0001	RIPRAP, CLASS I	CUBIC YARD	320
613.0002.0000	CULVERT MARKER POST	EACH	10
615.0001.0000	STANDARD SIGN	SQUARE FOOT	174
615.0007.0000	SALVAGE AND DISPOSE SIGN	EACH	66
618.0002.0000	SEEDING	POUNDS	14100
630.0001.0003	GEOTEXTILE, SEPARATION, CLASS 3	SQUARE YARD	109930
631.0002.0001	GEOTEXTILE, EROSION CONTROL, CLASS 1	SQUARE YARD	2139
639.0001.0000	DRIVEWAY	EACH	7
640.0001.0000	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641.0001.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641.0003.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641.0004.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQUIRED
641.0006.0000	WITHHOLDINGS	CONTINGENT SUM	ALL REQUIRED
641.0007.0000	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642.0013.0000	THREE PERSON SURVEY PARTY	CONTINGENT SUM	ALL REQUIRED
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
644.0001.0000	FIELD OFFICE	LUMP SUM	ALL REQUIRED
644.0002.0000	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
644.0006.0000	VEHICLES	LUMP SUM	ALL REQUIRED
644.0015.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
644.2001.0000	ENGINEERING COMMUNICATIONS, MOBILE HOT SPOTS	LUMP SUM	ALL REQUIRED
645.0001.0000	TRAINING PROGRAM, 1 TRAINEES/APPRENTICES	HOURS	1000
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
670.0001.0000	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED

ESTIMATE OF LUMP SUM QUANTITIES

ITEM NO.	PAY ITEM	UNIT	QUANTITY
406.0003.0000	RUMBLE STRIPS	LINEAR FOOT	55,037
670.0001.0000	PAINTED TRAFFIC MARKINGS	LINEAR FOOT	99,590

ESTIMATING FACTORS

ITEM NO.	PAY ITEM	VALUE
203.0006.000A	BORROW, TYPE A	1.94 TON/CY
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	1.94 TON/CY
301.0003.00E1	AGGREGATE BASE COURSE, GRADING E-1	1.94 TON/CY
304.0001.000F	SUBBASE, GRADING F	1.94 TON/CY
306.0001.0000	ATB	2.00 TON/CY
306.0002.5228	ASPHALT BINDER, GRADE PG 52-28	4.5% WEIGHT OF 306.0001.0000
401.0001.002B	HOT MIX ASPHALT, TYPE II; CLASS B	2.04 TON/CY
401.0004.5240	ASPHALT BINDER, GRADE PG 52-40	5.5% WEIGHT OF 401.0001.002B
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.00024 TON/SY
618.0002.0000	SEEDING	1.5 LB/MSF

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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ESTIMATE OF QUANTITIES

95% PS&E
07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	D1	D1

606 GUARDRAIL ITEMS SUMMARY

BEGIN STATION	END STATION	RT/LT	606.0001.0000 W-BEAM GUARDRAIL (LINEAR FOOT)	606.0006.0000 REMOVING AND DISPOSING OF GUARDRAIL (LINEAR FOOT)	REMARKS
"S1" 1396+62	"S1" 1409+25	RT		915.6	
"S1" 1396+50	"S1" 1409+50	LT		940.7	
"S1" 1488+66	"S1" 1499+51	LT		1292.8	
"S1" 1546+01	"S1" 1555+89	LT		1099.0	
"S1" 1572+91	"S1" 1582+05	LT		1110.0	
"S1" 1575+07	"S1" 1579+97	RT		597.9	
"S1" 1588+66	"S1" 1600+99	LT		1447.5	
"S1" 1596+50	"S1" 1602+46	RT		600.5	
"S1" 1651+42.13	"S1" 1651+73.34	LT	37.5		INSTALL STANDARD W-BEAM END SECTIONS PER STANDARD PLAN G-00.05
"S1" 1651+77.50	"S1" 1655+02.50	LT	325		INSTALL STANDARD W-BEAM END SECTIONS PER STANDARD PLAN G-00.05
"S1" 1655+06.66	"S1" 1655+37.87	LT	37.5		INSTALL STANDARD W-BEAM END SECTIONS PER STANDARD PLAN G-00.05
TOTAL			400.0	8004.0	

GUARDRAIL NOTES:

1. INSTALL GUARDRAIL POSTS IN ACCORDANCE WITH STANDARD PLAN G-10.20.

202.0010.0000 MAILBOX SUMMARY

NUMBER OF EXISTING MAILBOXES	EXISTING STATION	LOCATION
1	"S1" 1661+73	RT

MAILBOX NOTES:

1. CONSTRUCT THE MAILBOX IN ACCORDANCE WITH THE "WOOD POST (RURAL) INSTALLATION" AND "TYPICAL WOOD CANTILEVER INSTALLATION" SHOWN ON STANDARD PLANS M-20.15 AND M-23.13 RESPECTIVELY.

670.0001.0000 PAINTED TRAFFIC MARKING SUMMARY

DESCRIPTION	QUANTITY	UNIT
4" WHITE	55,070	LF
4" WHITE SKIP	8,740	LF
8" WHITE	480	LF
4" DOUBLE YELLOW	18,100	LF
4" YELLOW	7,400	LF
4" YELLOW SKIP	9,800	LF
LANE DROP ARROWS	6	EACH

TRAFFIC MARKING NOTES:

1. INSTALL LANE EDGE AND CENTERLINES PER STANDARD PLAN T-21.04.
2. IF STRIPING IS NOT ALIGNED AT BOP/EOP, TRANSITION STRIPING OVER 100 FEET TO MATCH EXISTING.

SUPERELEVATION SUMMARY

CURVE PI	RADIUS (FT)	BEGIN TRANSITION	TRANSITION LENGTH (FT)	CURVE PC	BEGIN FULL SUPERELEVATION	SUPERELEVATION RATE (%)	END FULL SUPERELEVATION	CURVE PT	TRANSITION LENGTH (FT)	END TRANSITION	REMARKS
1415+23.91	2050	1407+30	240	1409+13.06	1409+70	6.0	1420+85	1421+34.75	240	1423+25	
1434+42.91	2050	1427+30	240	1429+14.85	1429+70	6.0	1439+20	1439+70.98	240	1441+60	
1488+64.41	2100	1480+75	240	1482+57.59	1483+15	6.0	1494+20	1494+71.23	240	1496+60	
1528+62.28	3020	1514+30	220	1515+98.85	1516+50	5.4	1540+80	1541+25.71	220	1543+00	
1572+51.16	4500	1545+45	185	1546+89.41	1547+30	4.2	1597+80	1598+12.91	185	1599+65	
1614+12.81	3800	1607+05	200	1608+59.69	1609+05	4.6	1619+25	1619+65.93	200	1621+25	
1637+47+48	2900	1625+10	230	1626+87.12	1627+40	5.6	1647+60	1648+07.83	230	1649+90	
1664+94.10	2865	1658+05	230	1659+80.44	1660+35	5.6	1669+60	1670+07.76	230	1671+90	

SUMMARIES

95% PS&E
07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	E1	E4

PROPOSED CULVERT SUMMARY

STATION	DIAMETER (IN)	INLET			OUTLET				NEW CULVERT LENGTH (FT)		REMARKS
		STATION	OFFSET	INVERT ELEVATION	STATION	OFFSET	INVERT ELEVATION	CULVERT RIPRAP APRON	603.0001.0036	603.0001.0012	
"S1" 1429+00	36	1429+00.0	42.0' RT	1273.8	1429+00.0	62.2' LT	1265.5	X	105		CROSS CULVERT
"S1" 1472+42	36	1472+42.0	77.4' RT	1192.1	1472+42.0	91.5' LT	1185.1	X	170		CROSS CULVERT
"S1" 1529+77	36	1529+76.6	108.1' RT	1135.6	1529+76.7	123.6' LT	1126	X	232		CROSS CULVERT
"S1" 1535+94	36	1536+70.0	102.0' RT	1161.0	1535+17.0	110.0' RT	1153.1		159		APPROACH CULVERT
"S1" 1595+62	36	1594+45.0	121.3' RT	986.7	1596+79.4	212.7' RT	928.2		251		APPROACH CULVERT
"S1" 1613+83	36	1614+31.4	85.9' RT	934.7	1613+35.5	114.0' RT	927.6		103		APPROACH CULVERT
"S1" 1619+00	36	1619+00.0	48.0' RT	954	1619+00.0	54.2' LT	945.8	X	103		CROSS CULVERT
"S1" 1626+00	36	1626+00.0	48.0' RT	973.8	1626+00.0	58.2' LT	965.3	X	107		CROSS CULVERT
"S1" 1636+00	36	1636+00.0	66.9' RT	1003.3	1636+00.0	58.8' LT	996.3	X	126		CROSS CULVERT
"S1" 1648+00	36	1648+00.0	48.0' RT	1032.5	1648+00.0	54.6' LT	1024.3	X	103		CROSS CULVERT
"S1" 1660+00	36	1660+00.0	60.7' RT	1041.5	1660+00.0	50.8' LT	1036.8	X	112		CROSS CULVERT
"S1" 1661+39	12	1661+69.3	47.8' RT	1045.5	1661+08.9	48.8' RT	1044.8			62	APPROACH CULVERT
TOTAL									1571	62	

CULVERT NOTES:

- CULVERT LOCATIONS AND ORIENTATION ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
- CULVERT LENGTHS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR
- DITCH WORK AND RE-GRADING REQUIRED FOR NEW CULVERTS IS SUBSIDIARY TO 603 PAY ITEMS.
- INSTALL CULVERTS WITH A MINIMUM CAMBER EQUAL TO 1% OF THE LENGTH OF THE PIPE, OR AS DIRECTED BY THE ENGINEER.
- CULVERT LENGTHS ARE FOR PLACEMENT WITHIN THE TYPICAL ROADWAY EMBANKMENT. IF EXCESS MATERIAL IS PLACED ALONG EMBANKMENT SEE DETAIL E3 FOR FILL AROUND CULVERT END.
- CULVERTS SHALL BE BEDDED PER TYPE A FOUNDATION STABILIZATION DETAIL FOUND IN STANDARD PLAN D-01.02 SHEET 1 OF 1.

EXISTING CULVERT SUMMARY

STATION	202.0004.0000 REMOVAL OF CULVERT PIPE		INLET			OUTLET			REMARKS	
	DIAMETER (IN)	REMOVE (FT)	STATION	OFFSET	INVERT ELEVATION	STATION	OFFSET	INVERT ELEVATION		
"S1" 1425+85	24	95	1425+86	34.6' RT	1272.45	1425+86	59.91' LT	1261.98	ABANDON IN PLACE	
"S1" 1479+61	24	83	1479+81	78.7' RT	1209.51	1479+61	2.1' LT	1205.04	REMOVE CULVERT, TRENCH EMBANKMENT, SEE DETAILS ON E3	
"S1" 1490+33	24	103	1490+52	409.3' LT	1216.14	1490+14	501.8' LT	1201.83	REMOVE CULVERT, TRENCH EMBANKMENT, SEE DETAILS ON E3	
"S1" 1496+00	24	128	1496+03	594.3' LT	1219.82	1495+96	721.9' LT	1194.71	REMOVE CULVERT, TRENCH EMBANKMENT, SEE DETAILS ON E3	
"S1" 1512+00	24	91	1512+00	30.9' RT	1166.66	1512+00	59.6' LT	1150.99	ABANDON IN PLACE	
"S1" 1621+63	24	95	1621+70	36.7' RT	953.17	1621+53	57.0' LT	934.19	ABANDON IN PLACE	
"S1" 1626+45	24	90	1626+45	37.0' RT	968.73	1626+46	53.5' LT	963.16	ABANDON IN PLACE	
"S1" 1636+00	24	126	1636+00	66.9' RT	1003.34	1636+00	58.8' LT	996.30	ABANDON IN PLACE	
"S1" 1646+34	24	100	1646+34	51.5' RT	1028.13	1646+34	48.2' LT	1006.52	ABANDON IN PLACE	
"S1" 1658+66	24	113	1658+66	60.3' RT	1036.84	1658+66	52.4' LT	1013.86	ABANDON IN PLACE	
"S1" 1661+44	12	54	1661+70	47.6' RT	1045.23	1661+17	49.1' RT	1043.93	REMOVE APPROACH CULVERT	
TOTAL		1078								

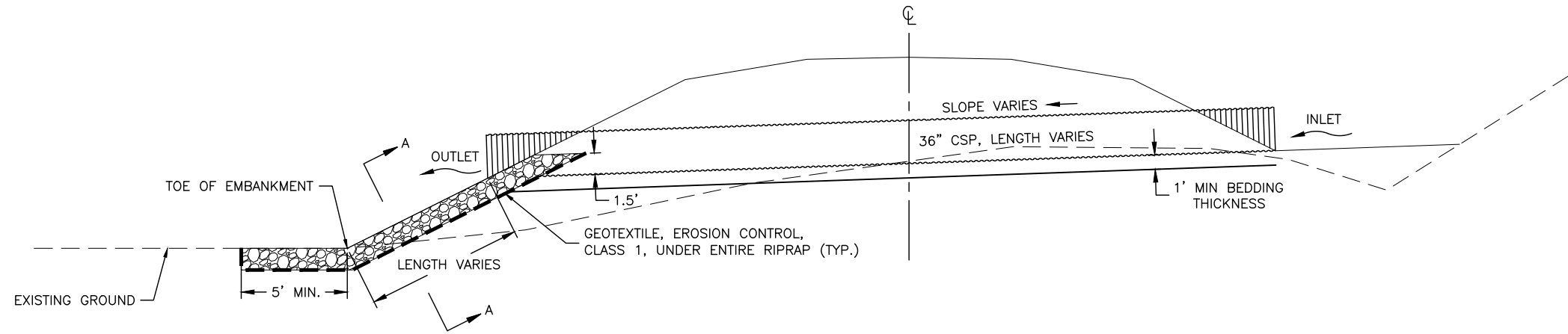
CULVERT SUMMARIES

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07/2021

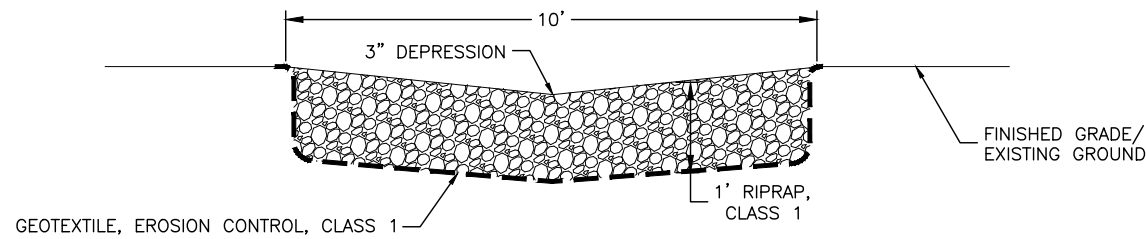
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ALASKA	0A45028/Z606570000	2021	E2	E4

NOTES:

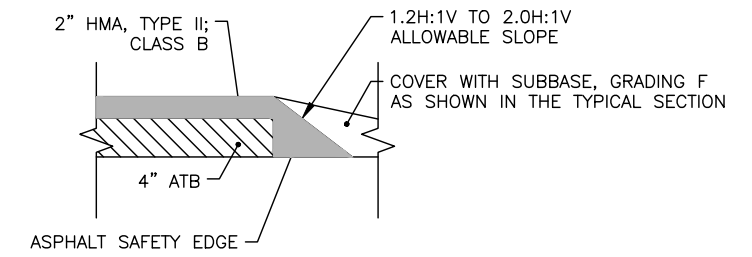
1. EROSION CONTROL STRUCTURES MAY BE FIELD ADJUSTED BY THE ENGINEER TO TAKE ADVANTAGE OF EXISTING CHANNEL TOPOGRAPHY.
2. CULVERT RIPRAP APRON DETAILS SHOWN ON THIS SHEET ARE SCHEMATIC AND NOT TO SCALE.
3. CULVERT RIPRAP APRON DETAILS ARE ONLY APPLICABLE TO OUTLET FOR THIS PROJECT.
4. THE TOP OF RIPRAP SHALL BE FLUSH WITH THE ADJACENT DITCH CHANNEL AND/OR EXISTING GROUND.
5. RIPRAP WILL BE APPLIED TO ALL PROPOSED CROSS CULVERTS. REFERENCE THE CULVERT SUMMARY TABLE FOR APRON LOCATIONS.
6. GEOTEXTILE, EROSION CONTROL SHALL BE PLACED SO THAT IT IS NOT VISIBLE UPON PROJECT COMPLETION.



CULVERT RIPRAP APRON – PROFILE VIEW



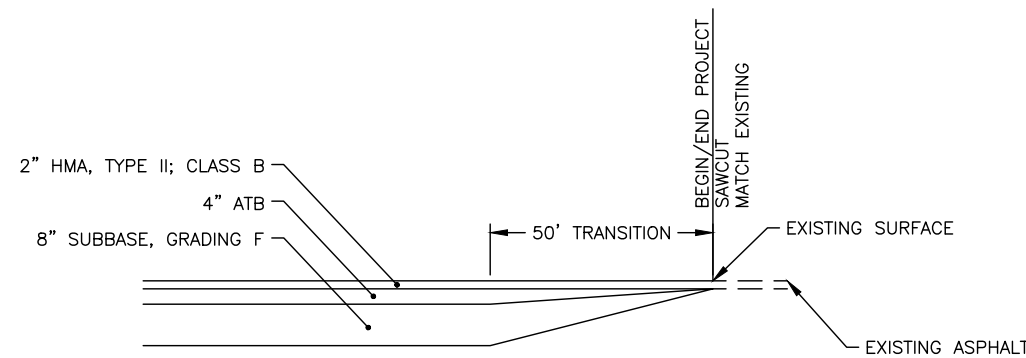
SECTION A-A



ASPHALT SAFETY EDGE DETAIL

ASPHALT SAFETY EDGE NOTES:

1. LABOR AND EQUIPMENT REQUIRED TO CONSTRUCT THE SAFETY EDGE IS SUBSIDIARY TO PAY ITEM 306.0001.0000 AND 401.0001.002B.
2. MATERIAL WILL BE MEASURED AND PAID UNDER PAY ITEMS 306.0001.0000 AND 401.0001.002B RESPECTIVELY.
3. DO NOT CONSTRUCT THE SAFETY EDGE ACROSS DRIVEWAYS.

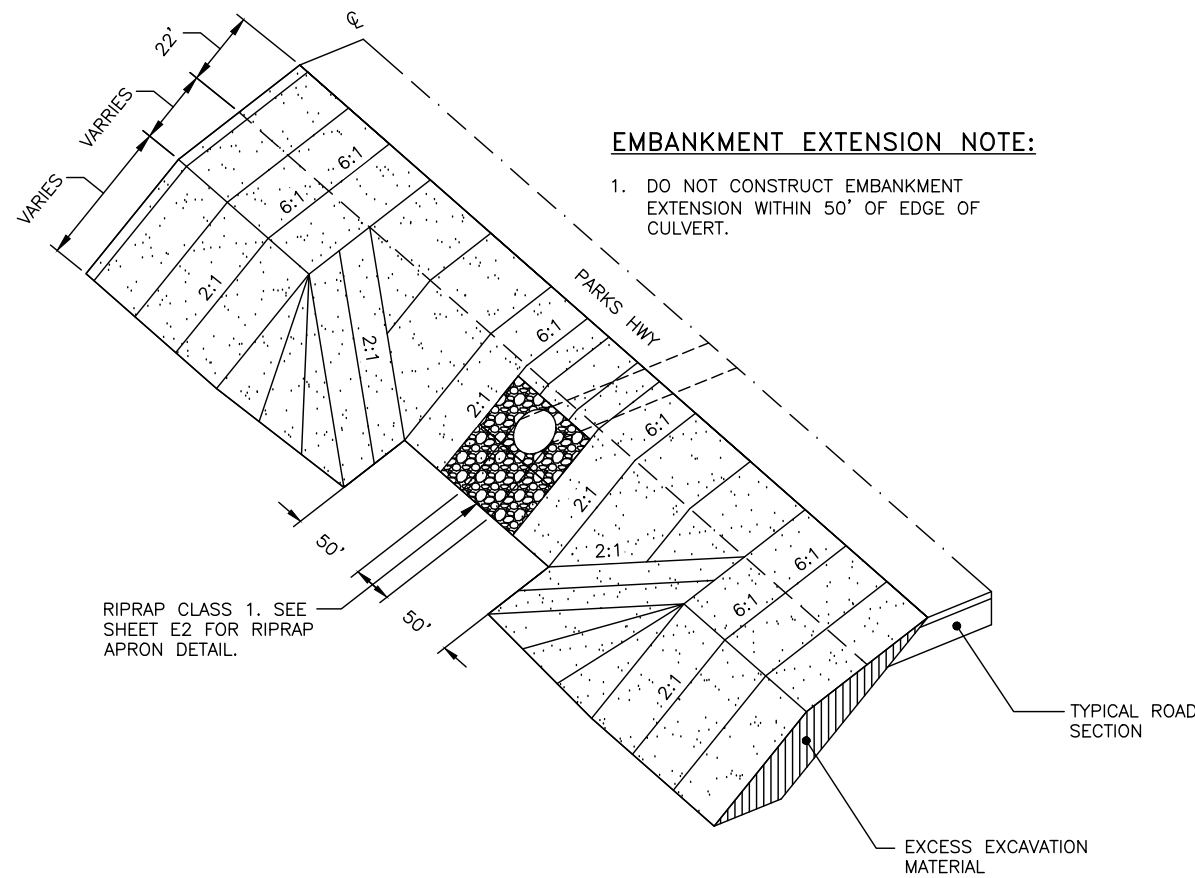


BOP AND EOP TRANSITION DETAIL

RIPRAP AND ROAD DETAILS

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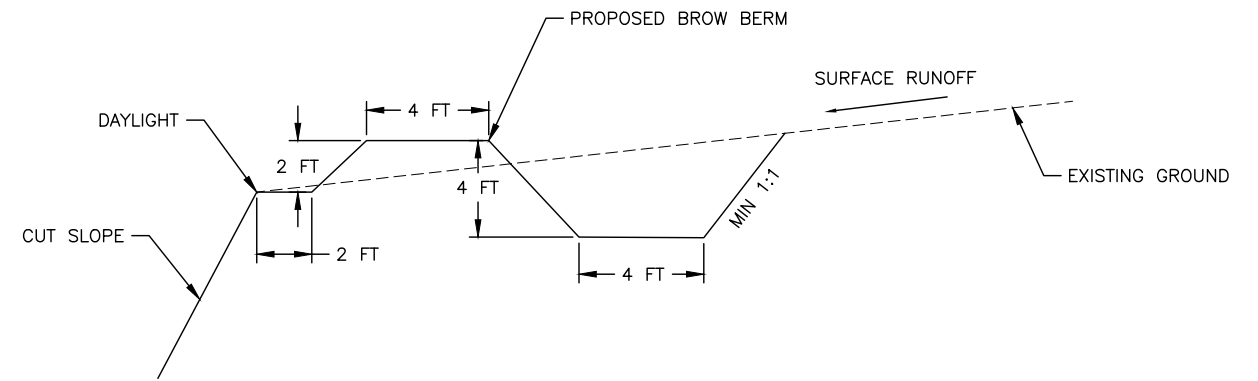
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	E3	E4



EMBANKMENT EXTENSION NOTE:

- DO NOT CONSTRUCT EMBANKMENT EXTENSION WITHIN 50' OF EDGE OF CULVERT.

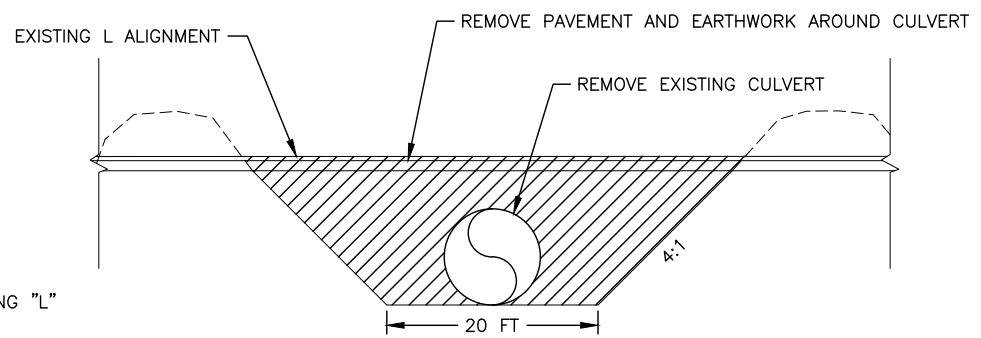
EMBANKMENT EXTENSION AROUND A CULVERT



BROW BERM TYPICAL

BROW BERM NOTES:

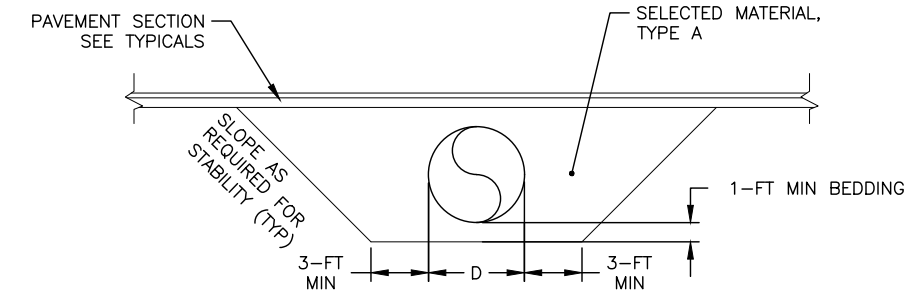
- BROW BERM TO BE USED ONLY ON NORTH SIDE OF "S1" ALIGNMENT.
- SEE F7 AND F9 SLOPE CUTS FOR LOCATION OF BROW BERM ALONG "S1" ALIGNMENT.
- BROW BERM IS SUBSIDIARY TO 203 PAY ITEMS.



CULVERT REMOVAL TRENCH DETAIL

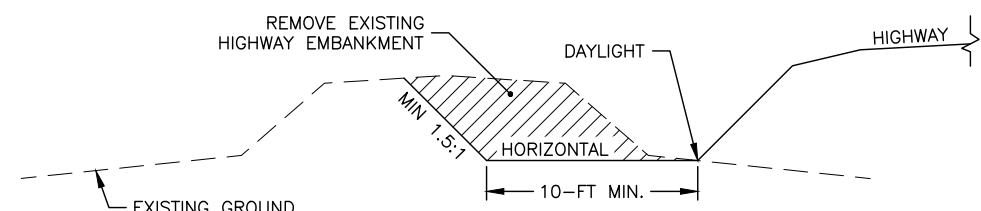
TRENCH NOTES:

- REMOVE CULVERT AND CLEAN OUT CULVERT LOCATION SO WATER CAN CONTINUE TO FLOW BENEATH EXISTING "L" ALIGNMENT.
- PLACE CULVERT EXCAVATION EARTHWORK OVER EXISTING "L" ALIGNMENT OUTSIDE OF TRENCH AND GRADE TO DRAIN.



TYPICAL CULVERT TRENCH DETAIL

NTS



EXISTING EMBANKMENT EXCAVATION DETAIL

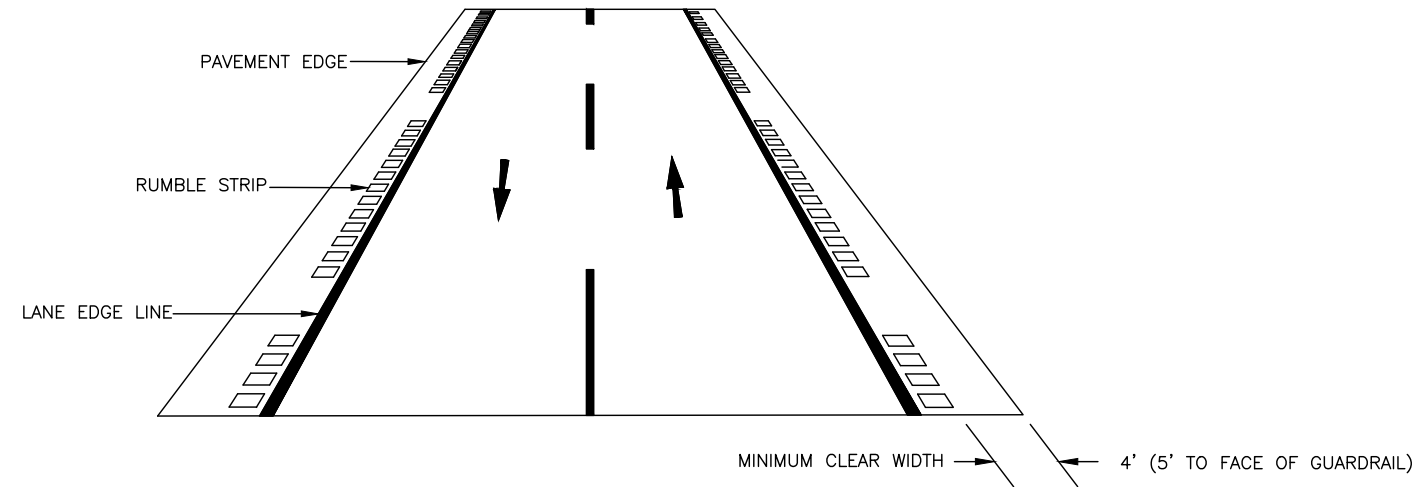
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CULVERT AND BERM DETAILS

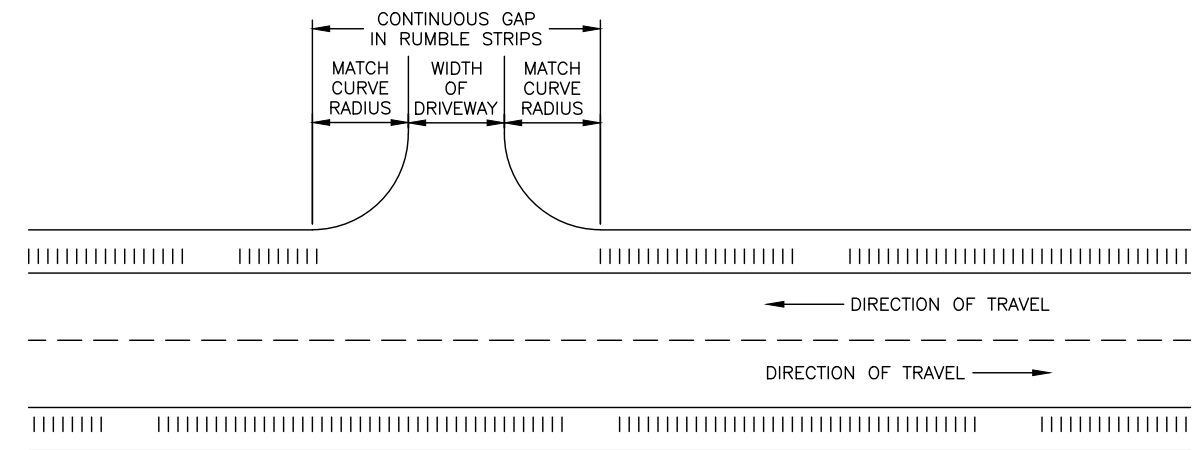
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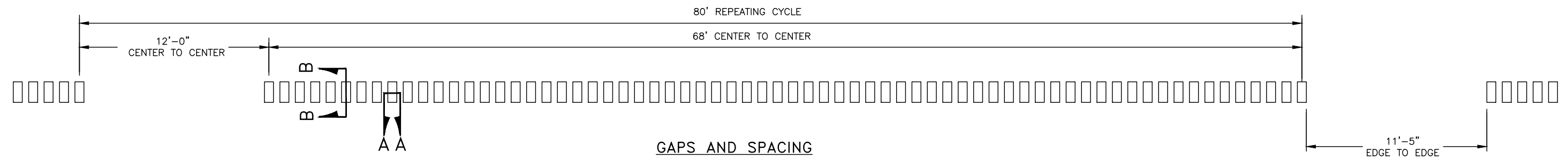
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	E4	E4



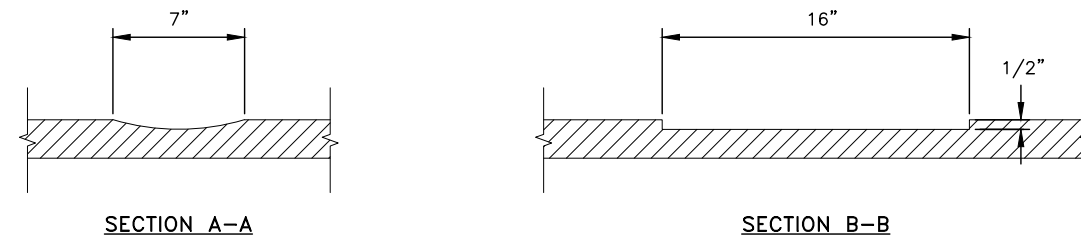
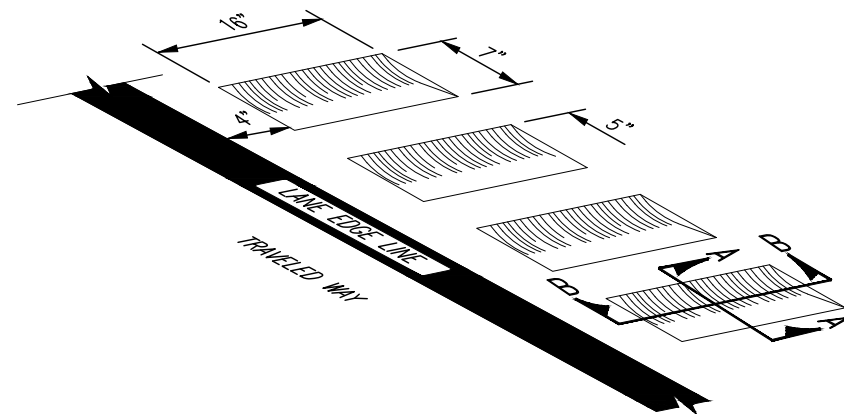
TYPICAL SHOULDER INSTALLATION – TWO-WAY
PERSPECTIVE VIEW



RUMBLE STRIP LAYOUT AT APPROACHES



GAPS AND SPACING



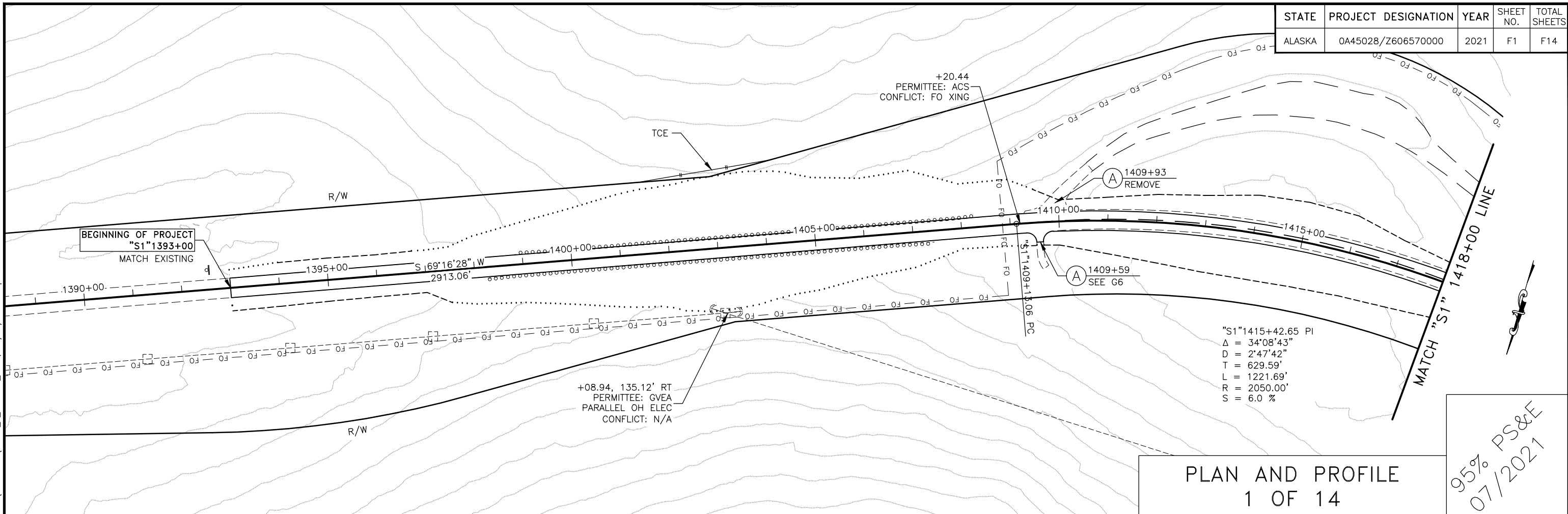
TYPICAL SHOULDER INSTALLATION DETAIL

RUMBLE STRIP DETAILS

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07/2021

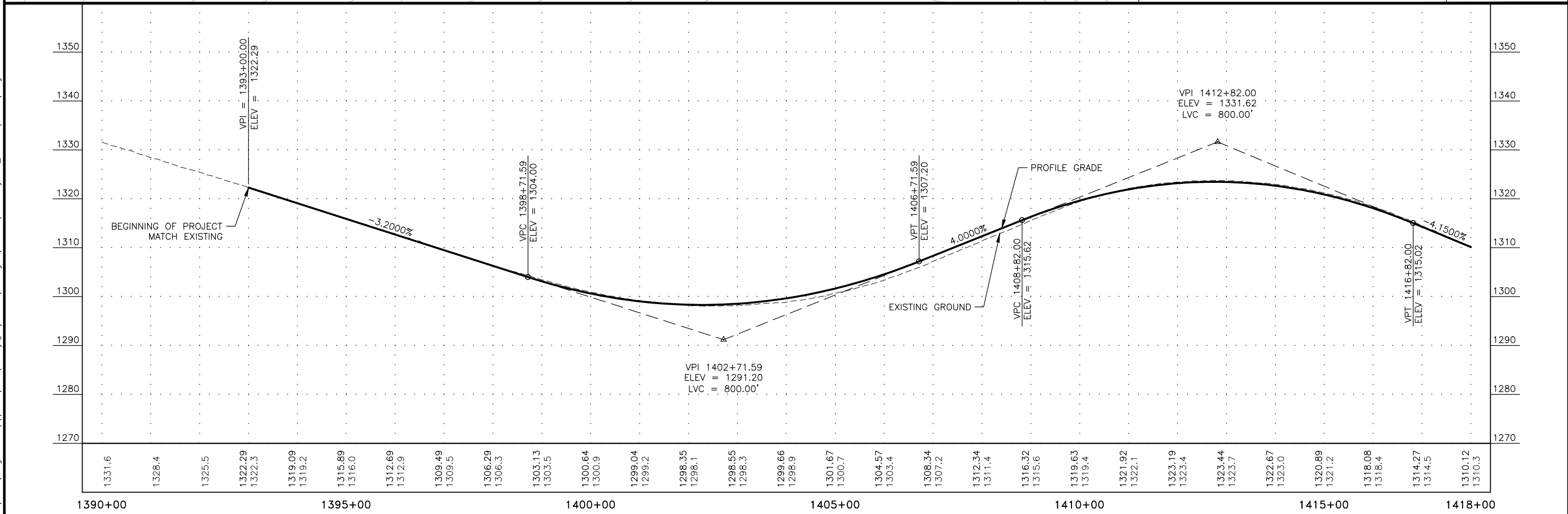
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F1	F14



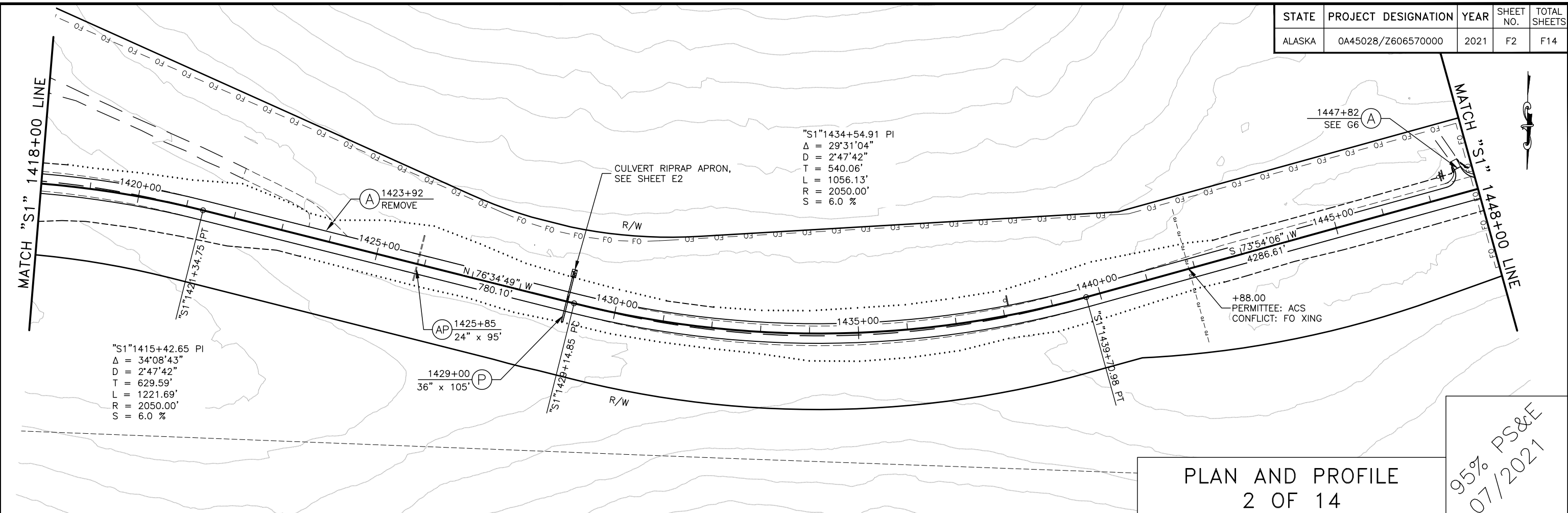
PLAN AND PROFILE
1 OF 14

95% PS&E
07/2021



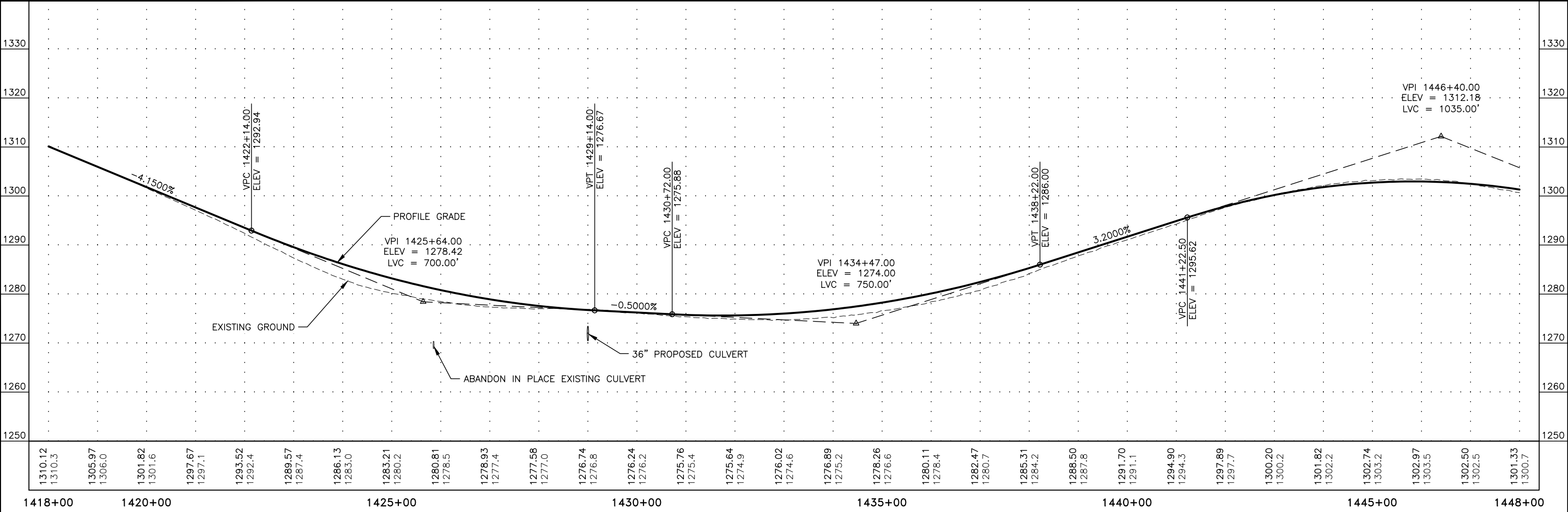
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F2	F14



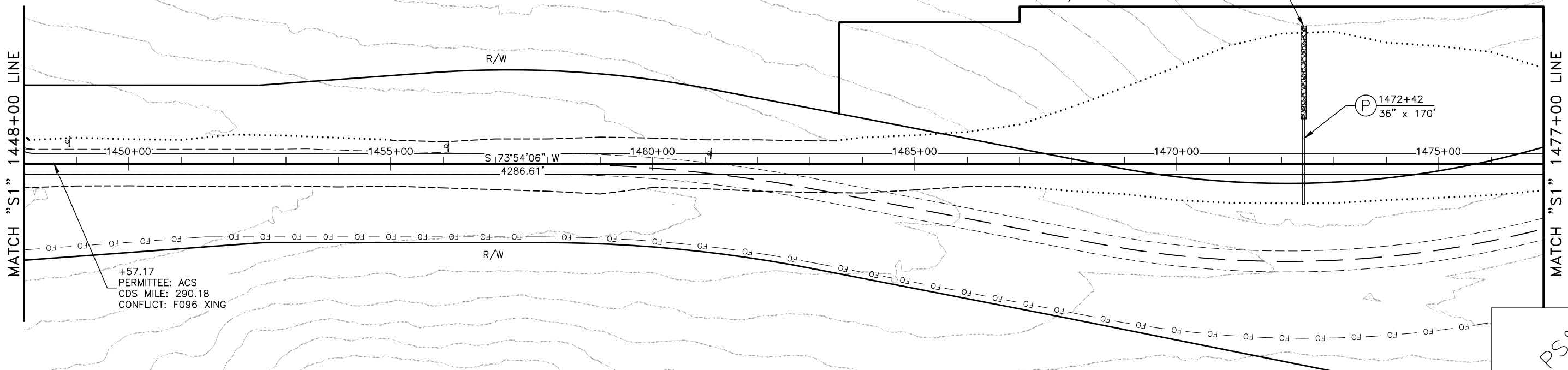
PLAN AND PROFILE
2 OF 14

95% PS&E
07/2021



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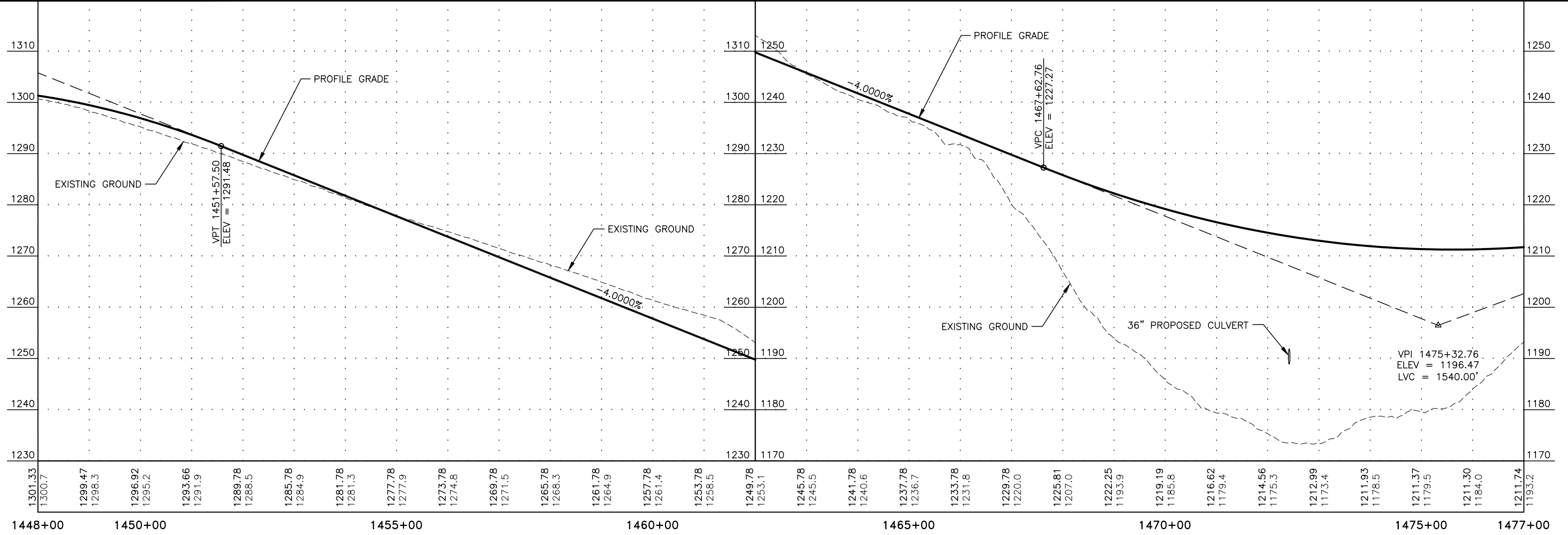
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F3	F14



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 CDS MILE: 290.18
 CONFLICT: F096 XING

PLAN AND PROFILE
 3 OF 14

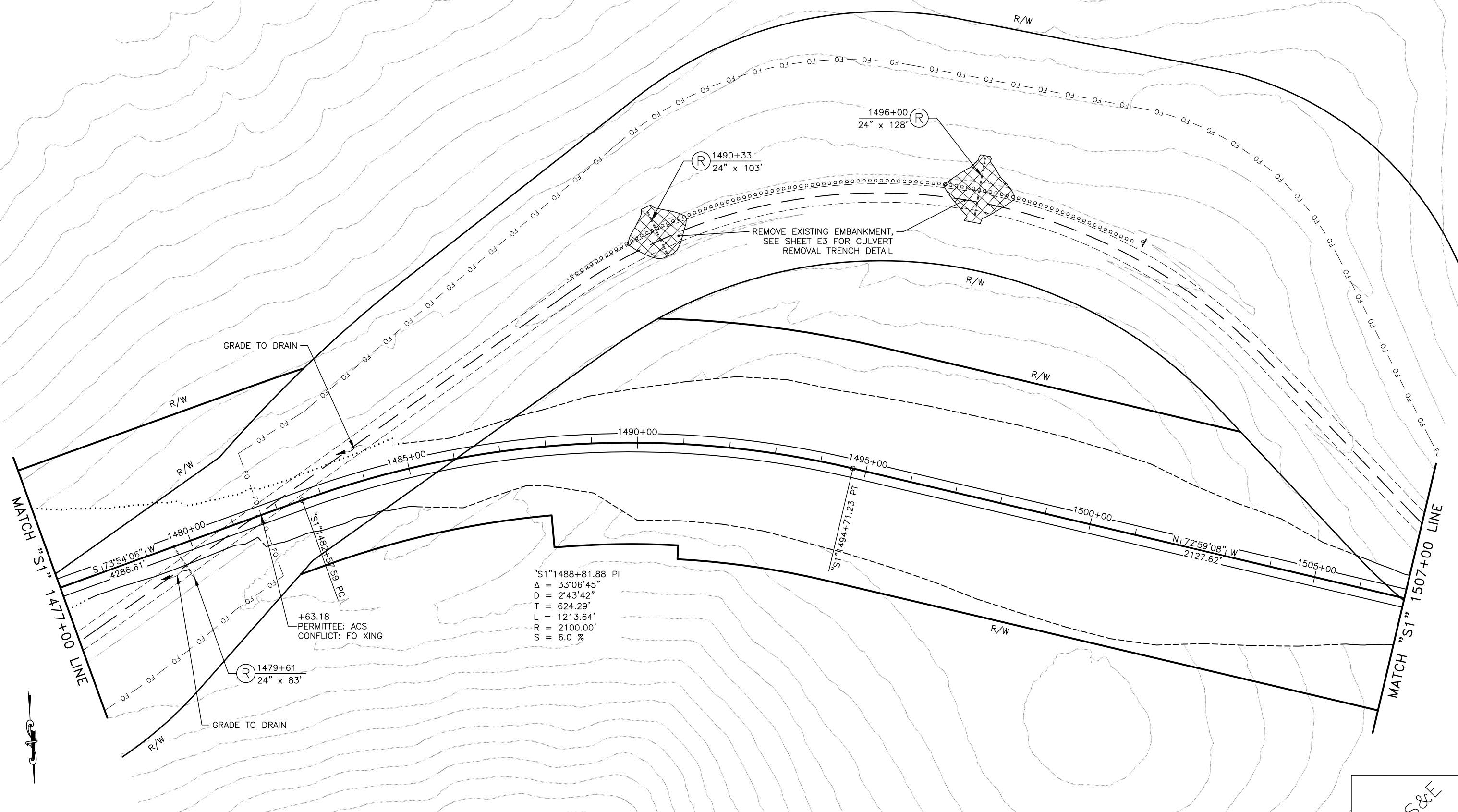
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F4	F14

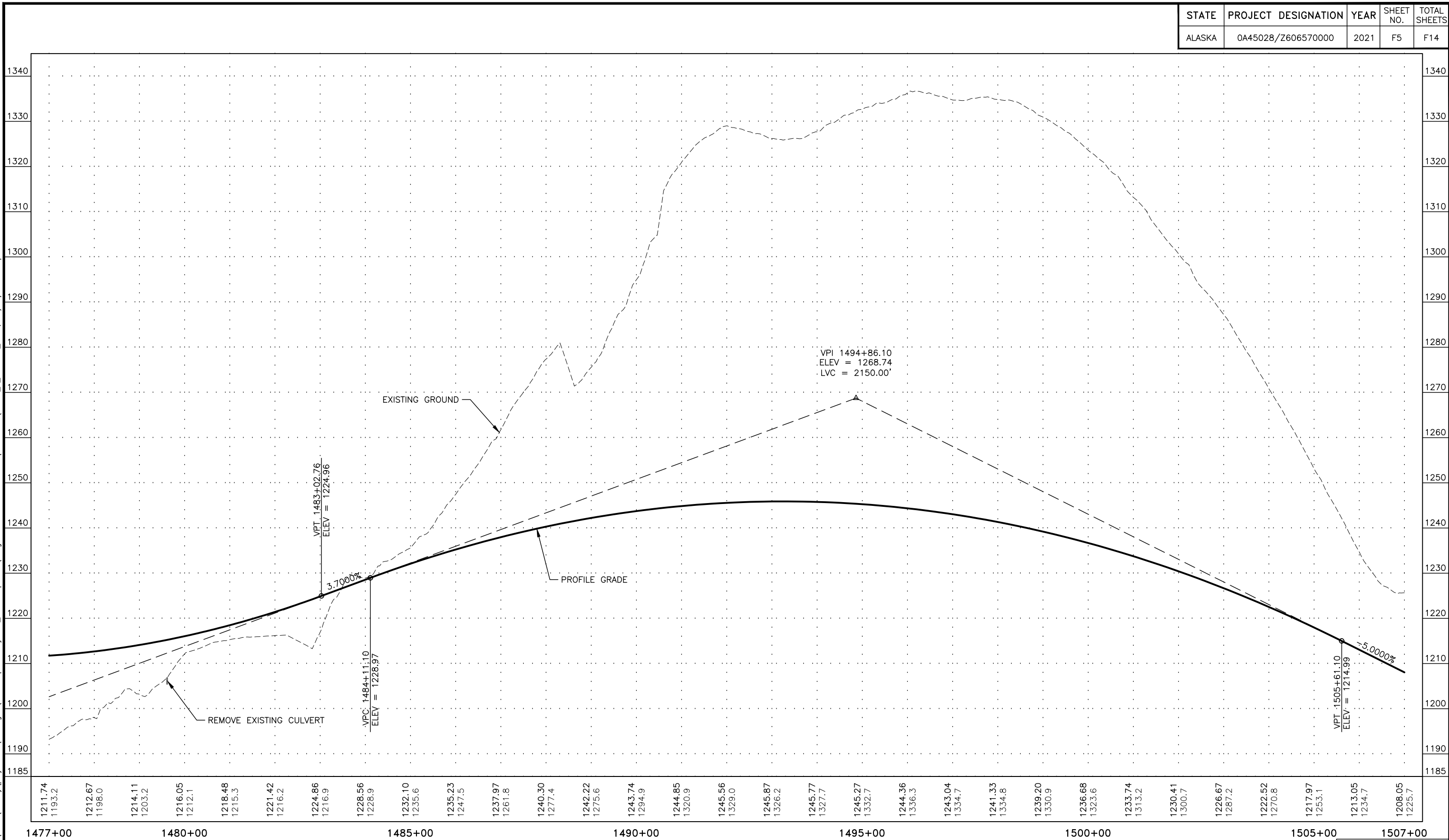
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PLAN AND PROFILE
4 OF 14

95% PS&E
 07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F5	F14

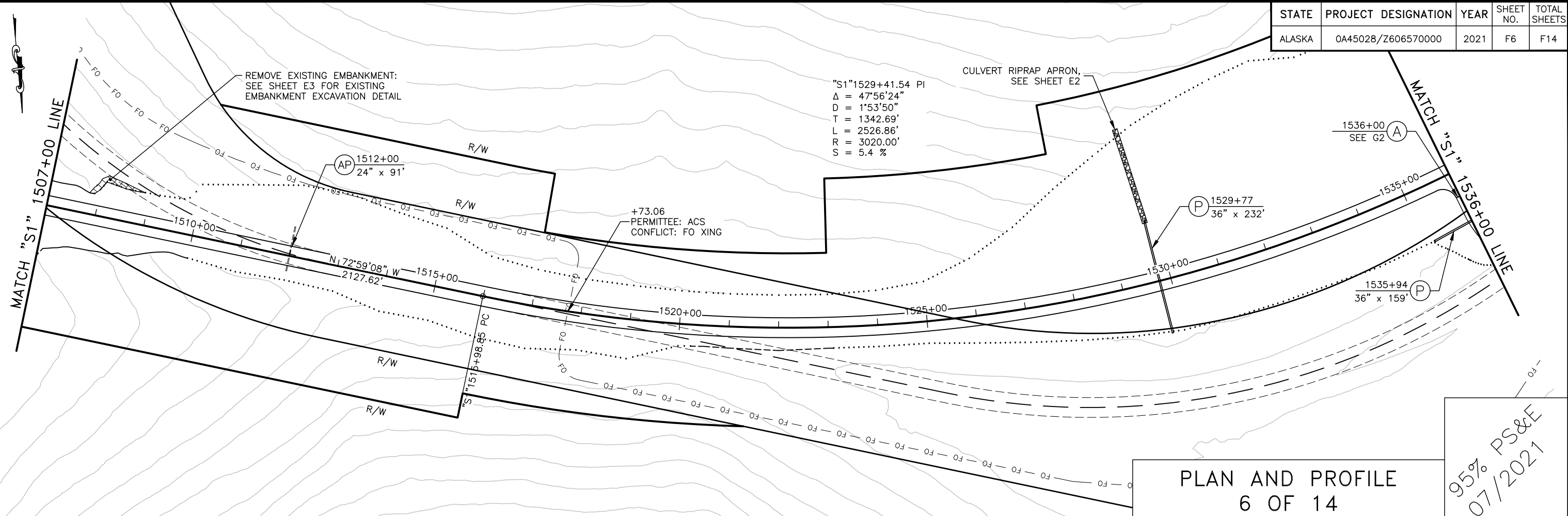


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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PLAN AND PROFILE
5 OF 14

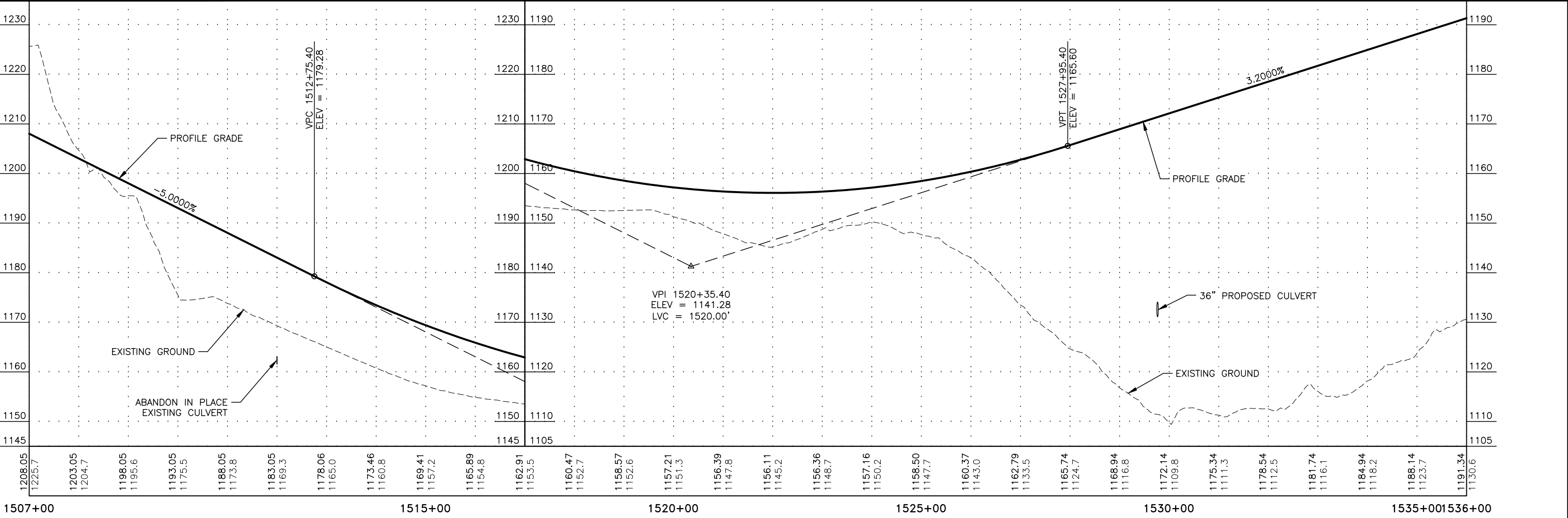
95% PS&E
07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F6	F14



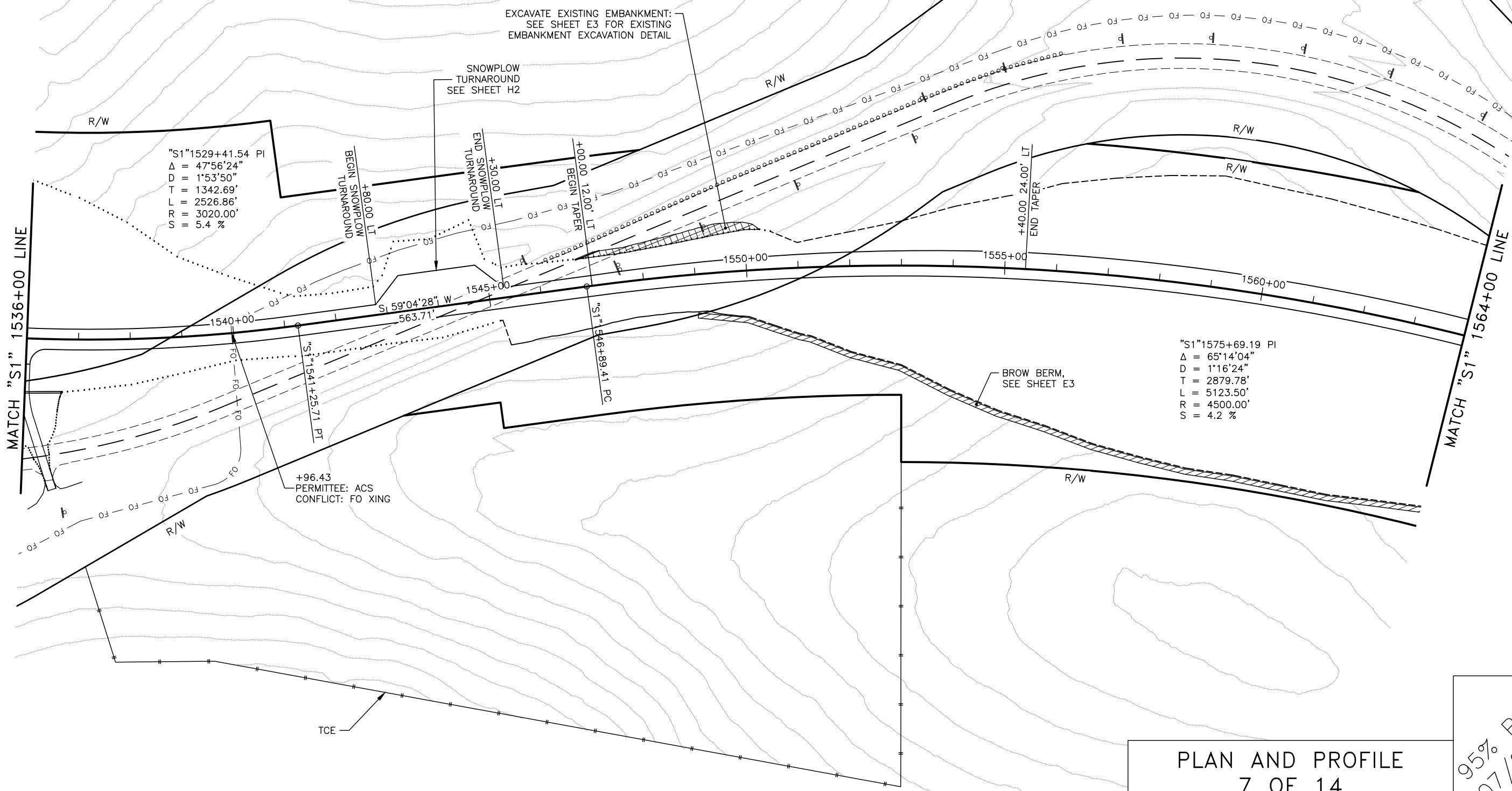
PLAN AND PROFILE
6 OF 14

95% PS&E
07/2021



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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F7	F14

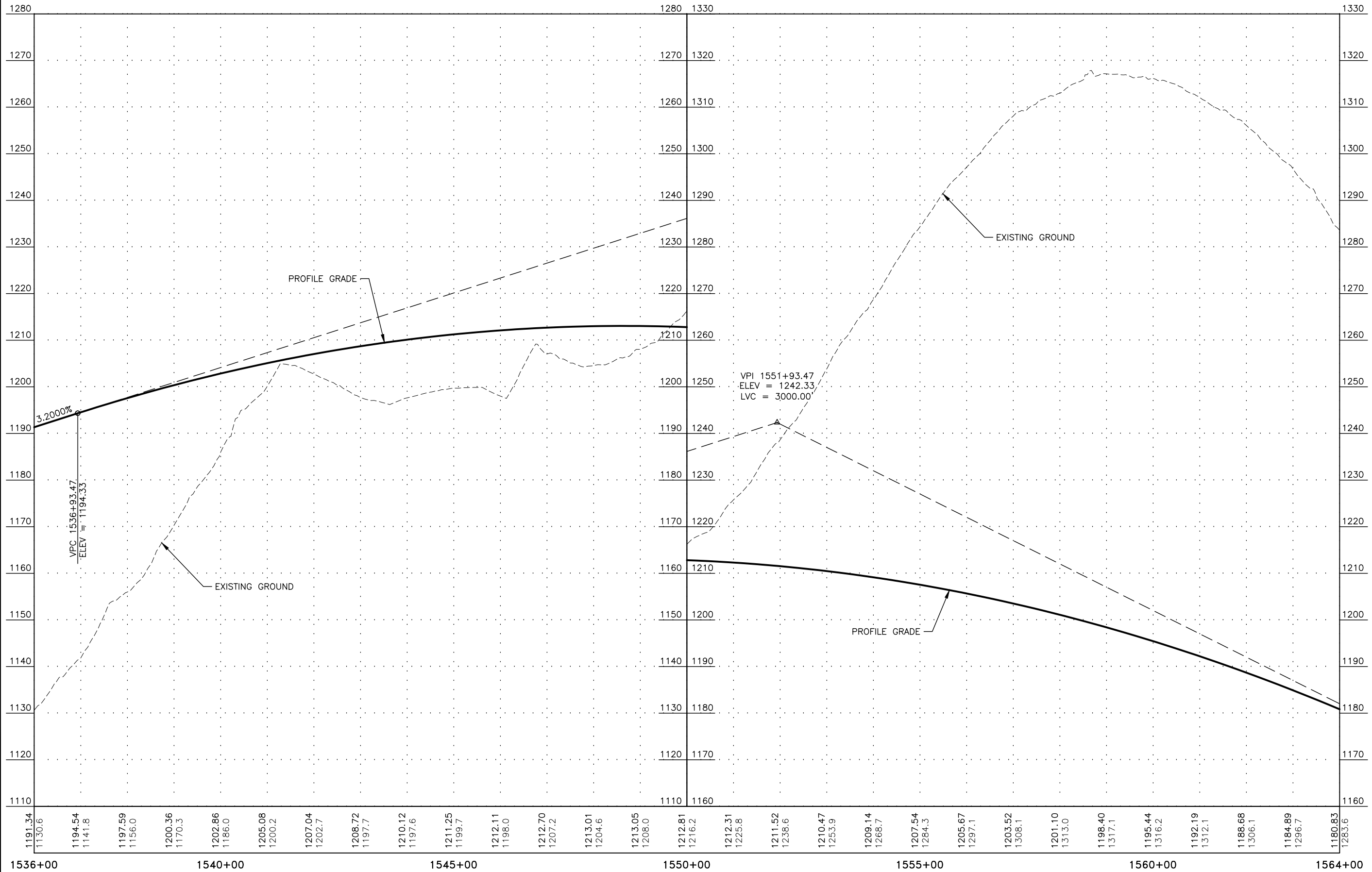


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PLAN AND PROFILE
 7 OF 14

95% PS&E
 07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F8	F14



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PLAN AND PROFILE
8 OF 14

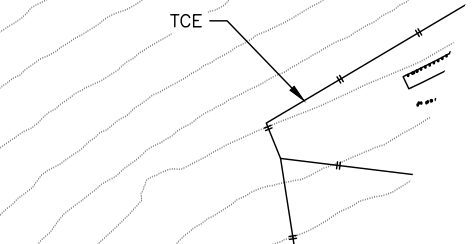
95% PS&E
07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F9	F14

"S1" 1575+69.19 PI
 $\Delta = 65^{\circ}14'04"$
 $D = 1^{\circ}16'24"$
 $T = 2879.78'$
 $L = 5123.50'$
 $R = 4500.00'$
 $S = 4.2\%$

(A) 1577+41
 SEE G3

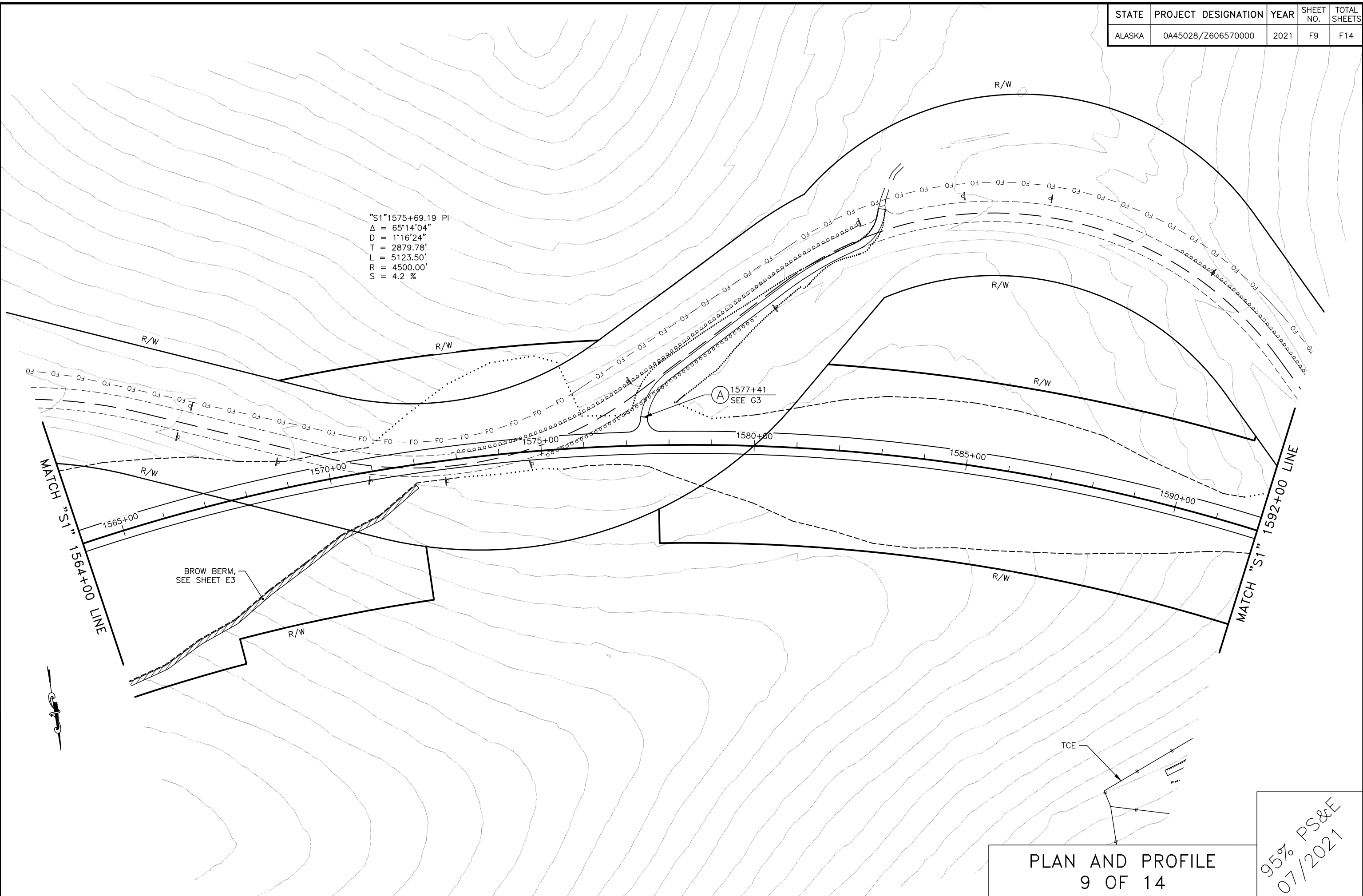
BROW BERM,
 SEE SHEET E3



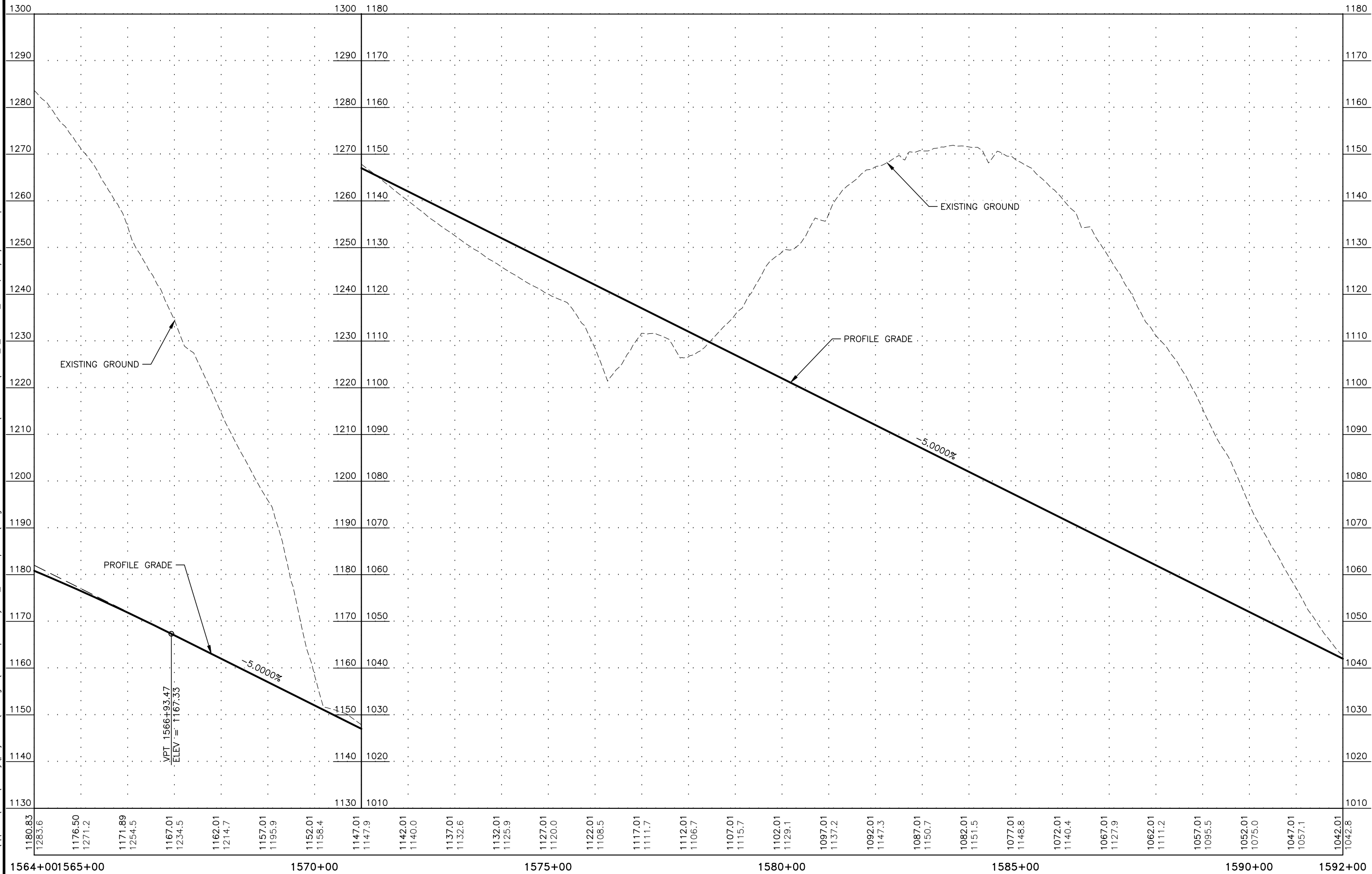
PLAN AND PROFILE
 9 OF 14

95% PS&E
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PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F10	F14



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PLAN AND PROFILE
10 OF 14

95% PS&E
07/2021

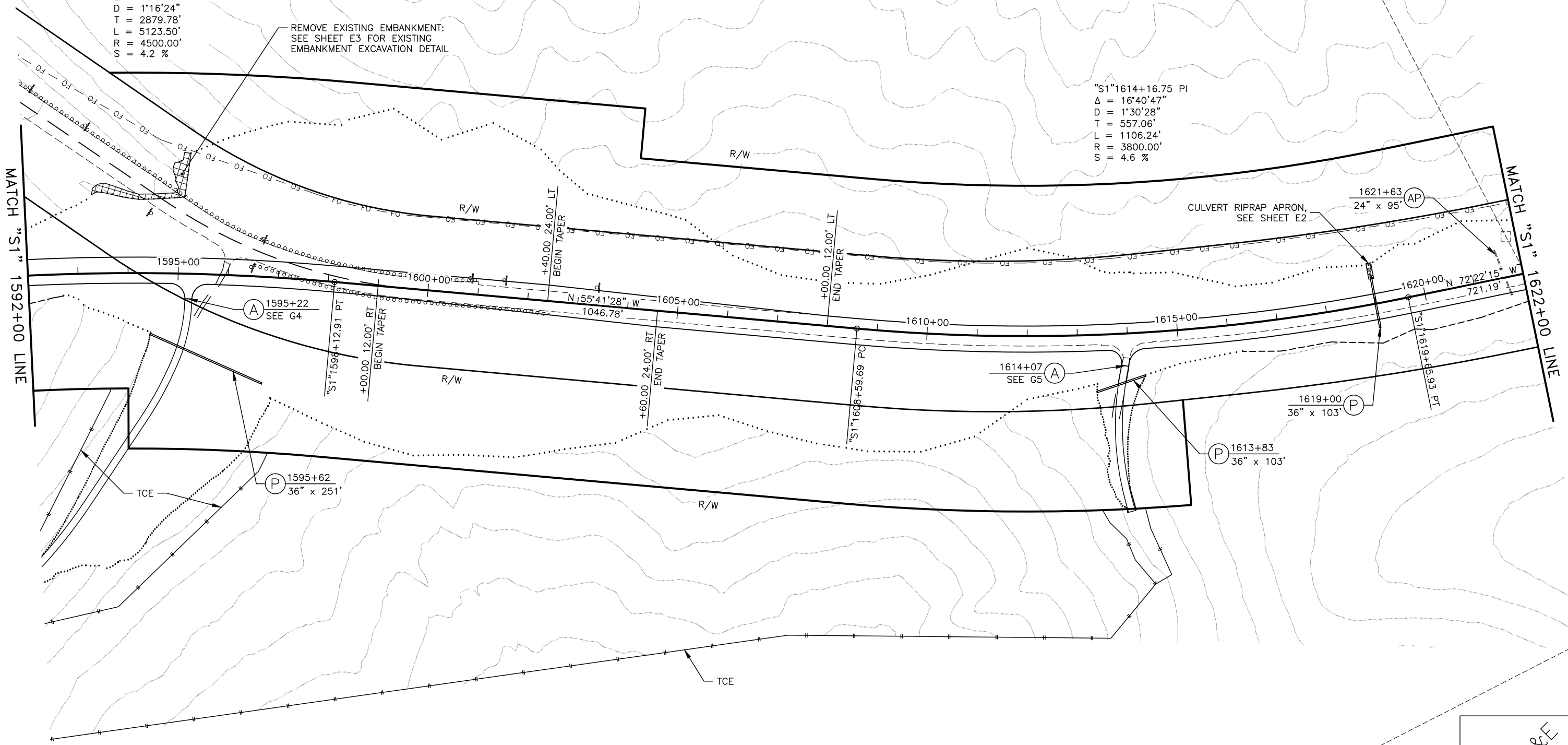
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F11	F14



"S1"1575+69.19 PI
 $\Delta = 65^{\circ}14'04"$
 $D = 1^{\circ}16'24"$
 $T = 2879.78'$
 $L = 5123.50'$
 $R = 4500.00'$
 $S = 4.2\%$

REMOVE EXISTING EMBANKMENT:
 SEE SHEET E3 FOR EXISTING
 EMBANKMENT EXCAVATION DETAIL

"S1"1614+16.75 PI
 $\Delta = 16^{\circ}40'47"$
 $D = 1^{\circ}30'28"$
 $T = 557.06'$
 $L = 1106.24'$
 $R = 3800.00'$
 $S = 4.6\%$



MATCH "S1" 1592+00 LINE

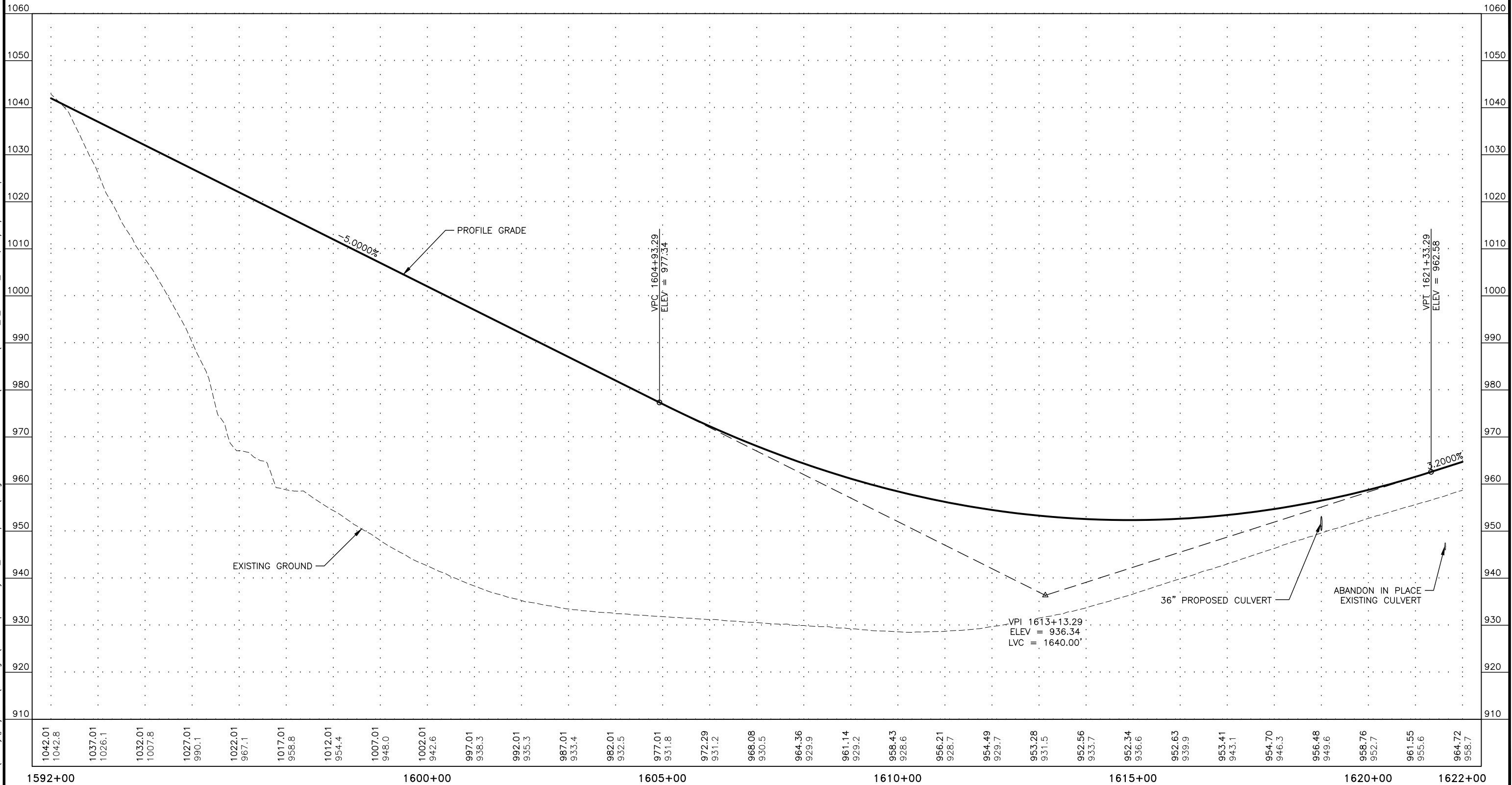
MATCH "S1" 1622+00 LINE

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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PLAN AND PROFILE
 11 OF 14

95% PS&E
 07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F12	F14

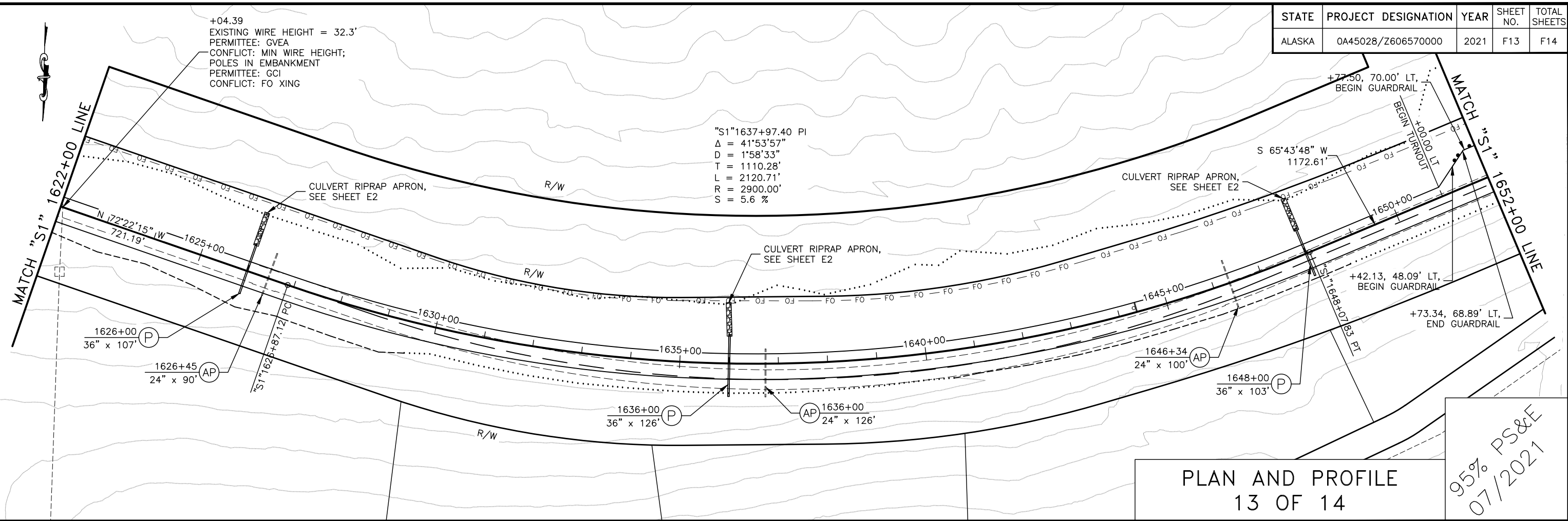


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PLAN AND PROFILE
12 OF 14

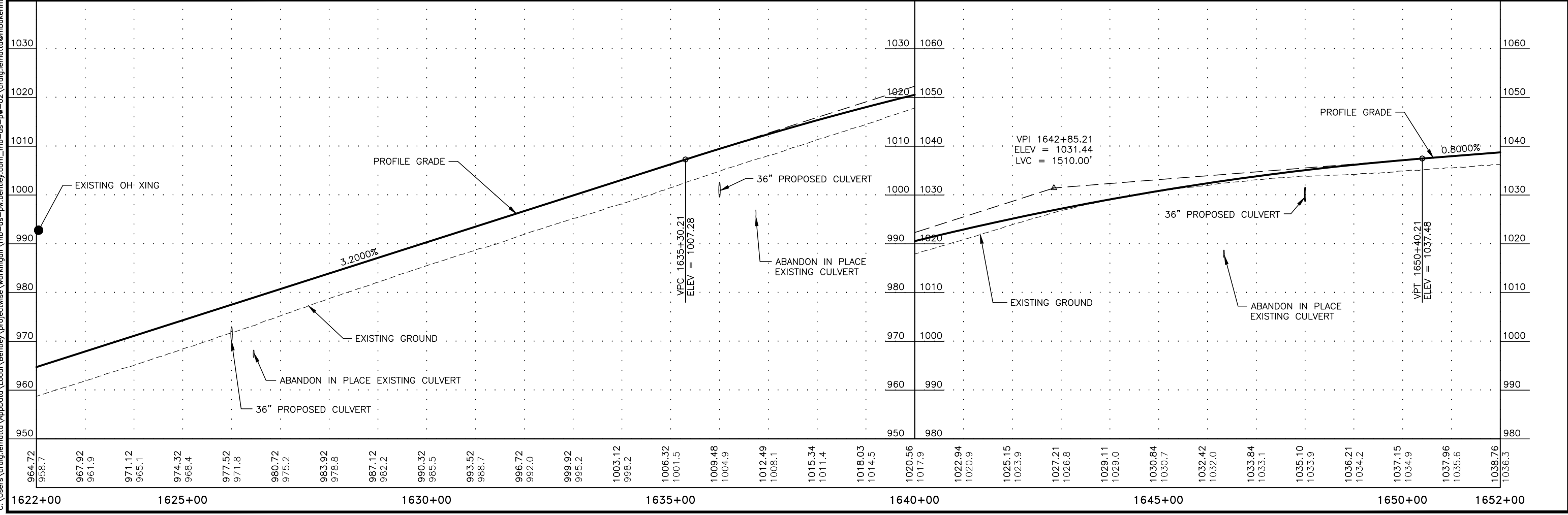
95% PS&E
07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F13	F14



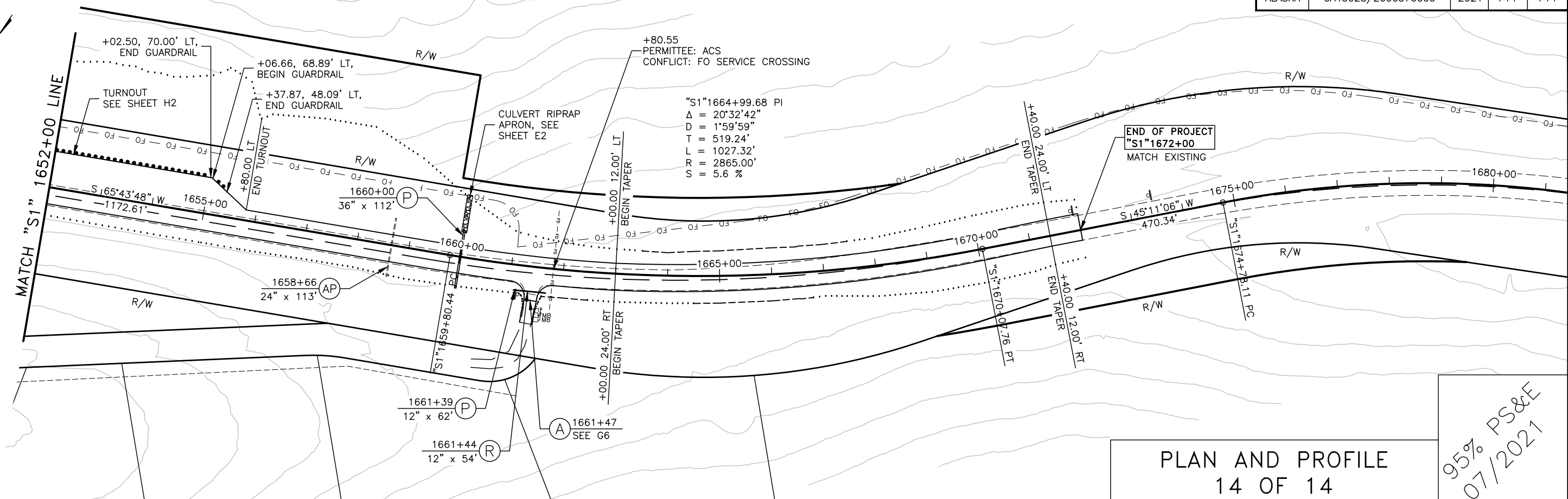
PLAN AND PROFILE
13 OF 14

95% PS&E
07/2021



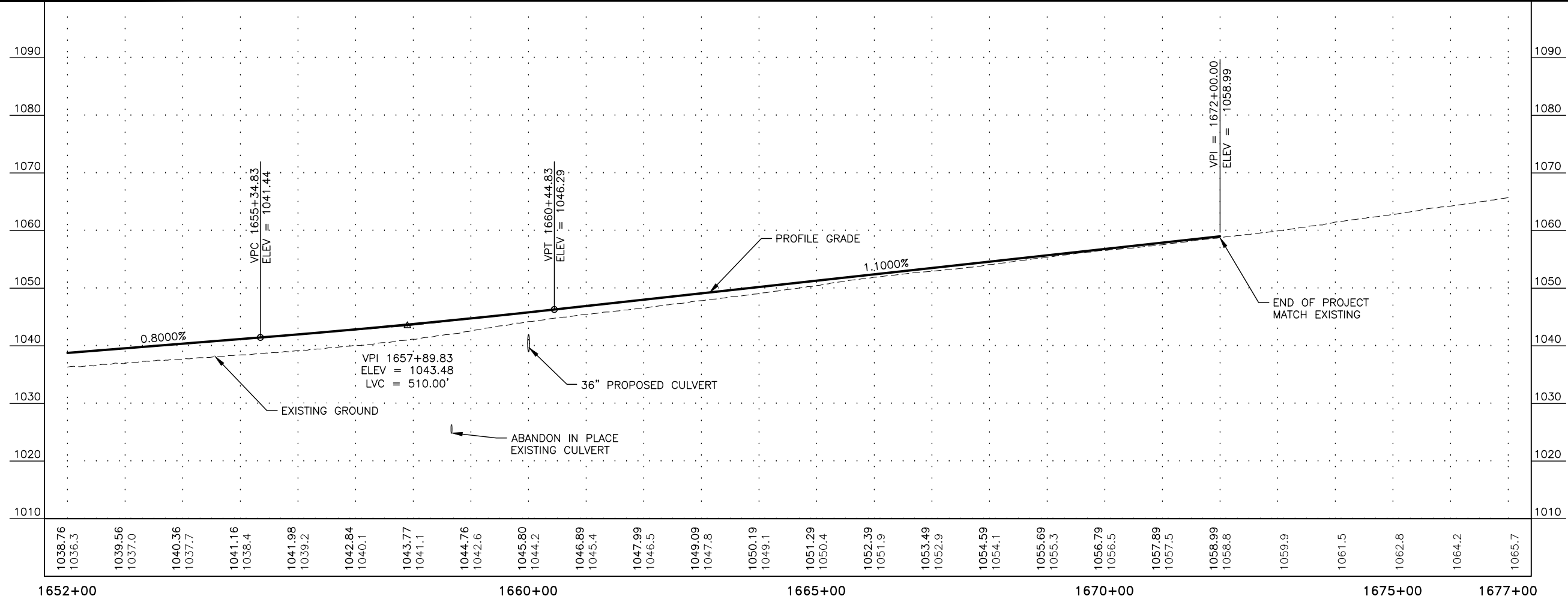
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	F14	F14



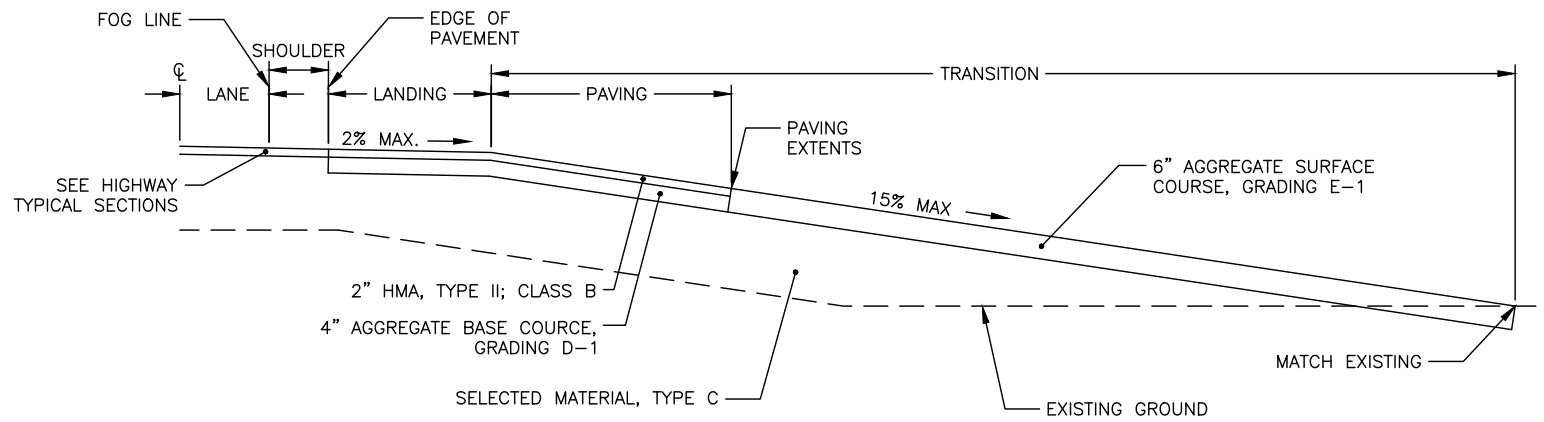
PLAN AND PROFILE
14 OF 14

95% PS&E
07/2021

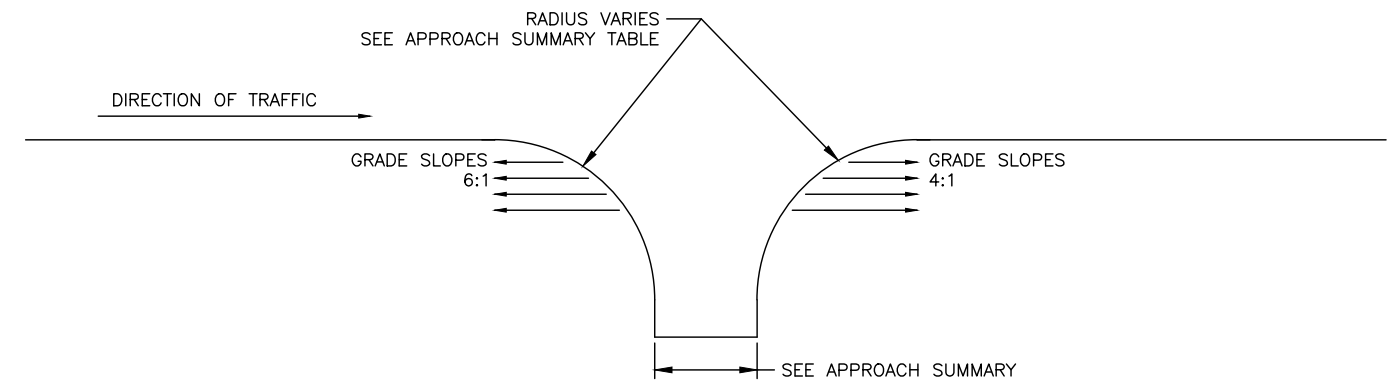


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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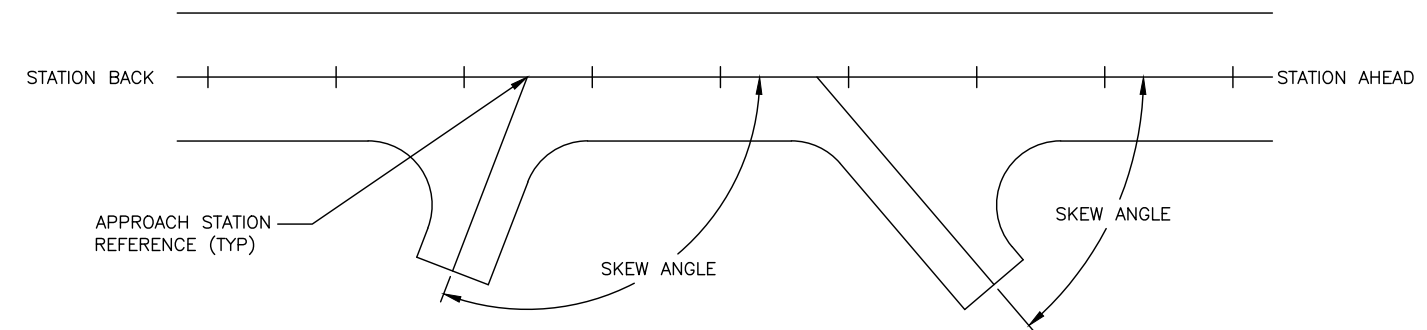
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	G1	G6



RESIDENTIAL APPROACH ELEVATION



**INTERSECTION DETAIL
APPROACH INTERSECTION**



STATION REFERENCE DETAIL

DRIVEWAY NOTES

1. MATCH EXISTING EDGE OF APPROACH AND APPROXIMATE APPROACH LOCATION. TRANSITIONS, DIMENSIONS, AND LOCATIONS ARE LISTED IN THE APPROACH SUMMARY TABLE AND MAY BE FIELD ADJUSTED BY THE ENGINEER.
2. RE-GRADING APPROACH SLOPES IS SUBSIDIARY TO PAY ITEM 639.0001.0000.
3. IF NO VERTICAL CURVE IS CONSTRUCTED, THE MAXIMUM ALGEBRAIC DIFFERENCE BETWEEN LANDING GRADE AND TRANSITION IS NOT TO EXCEED 8%.

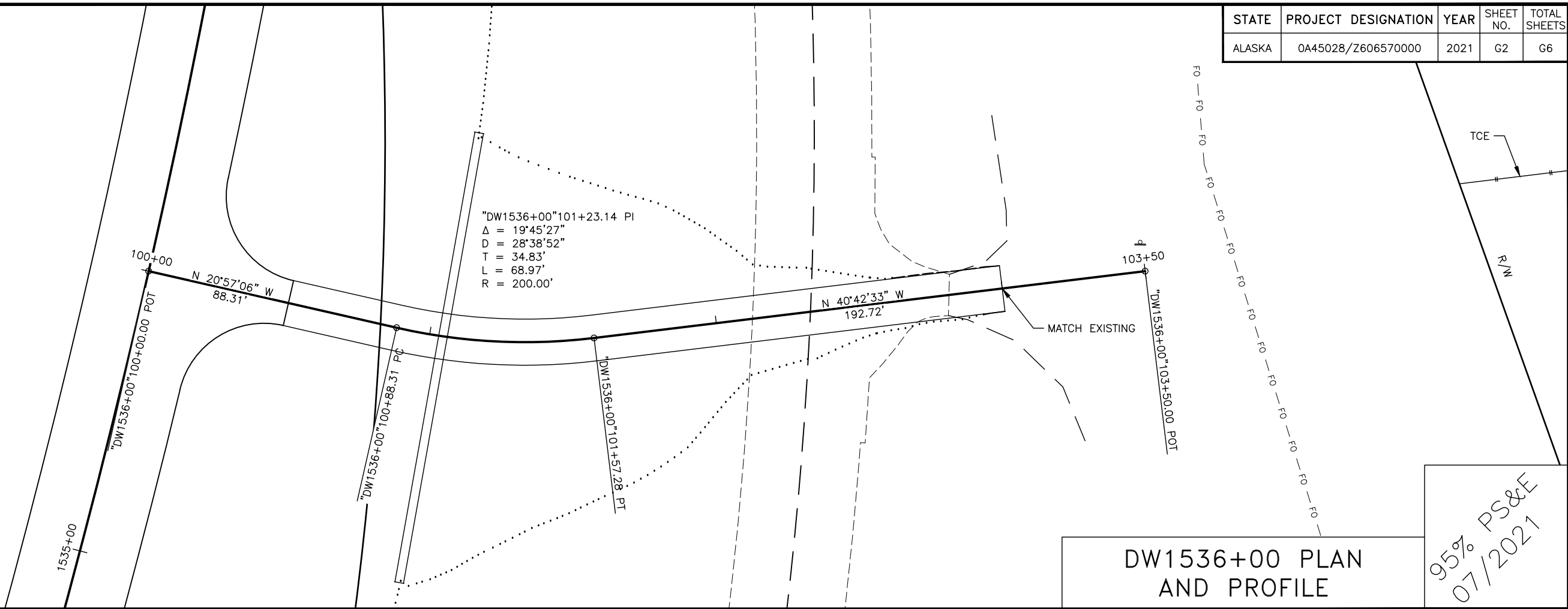
639.0001.0000 – APPROACH SUMMARY

STATION	RT/LT	WIDTH	TYPE	RADIUS		LANDING	TRANSITION	TRANSITION SLOPE	PAVING	SKEW ANGLE	REMARKS
				AHD STA	BK STA						
1409+59	RT	14'	COMMERCIAL	20'	20'	20'	--	--	20'	90°	SEE SHEET G6
1447+82	LT	14'	COMMERCIAL	40'	25'	30'	18'	-10.00%	33'	102°	ACCESS HAS ACCESS GATE BUT NO EXISTING PAVEMENT, SEE SHEET G6
1536+00	RT	16'	COMMERCIAL	30'	30'	30'	--	--	30'	90°	EXTEND ACCESS TO REALIGNMENT, SEE SHEET G2
1577+41	LT	16'	COMMERCIAL	30'	30'	30'	--	--	35'	90°	ACCESS ALONG EXISTING HIGHWAY ALIGNMENT, SEE SHEET G3
1595+22	RT	14'	COMMERCIAL	30'	30'	30'	--	--	30'	90°	SEE SHEET G4
1614+07	RT	14'	COMMERCIAL	30'	30'	30'	--	--	33'	103°	SEE SHEET G5
1661+47	RT	24'	RESIDENTIAL	30'	30'	30'	48'	2.95%	33'	94°	SEE SHEET G6

**APPROACH SUMMARY
AND DETAILS**

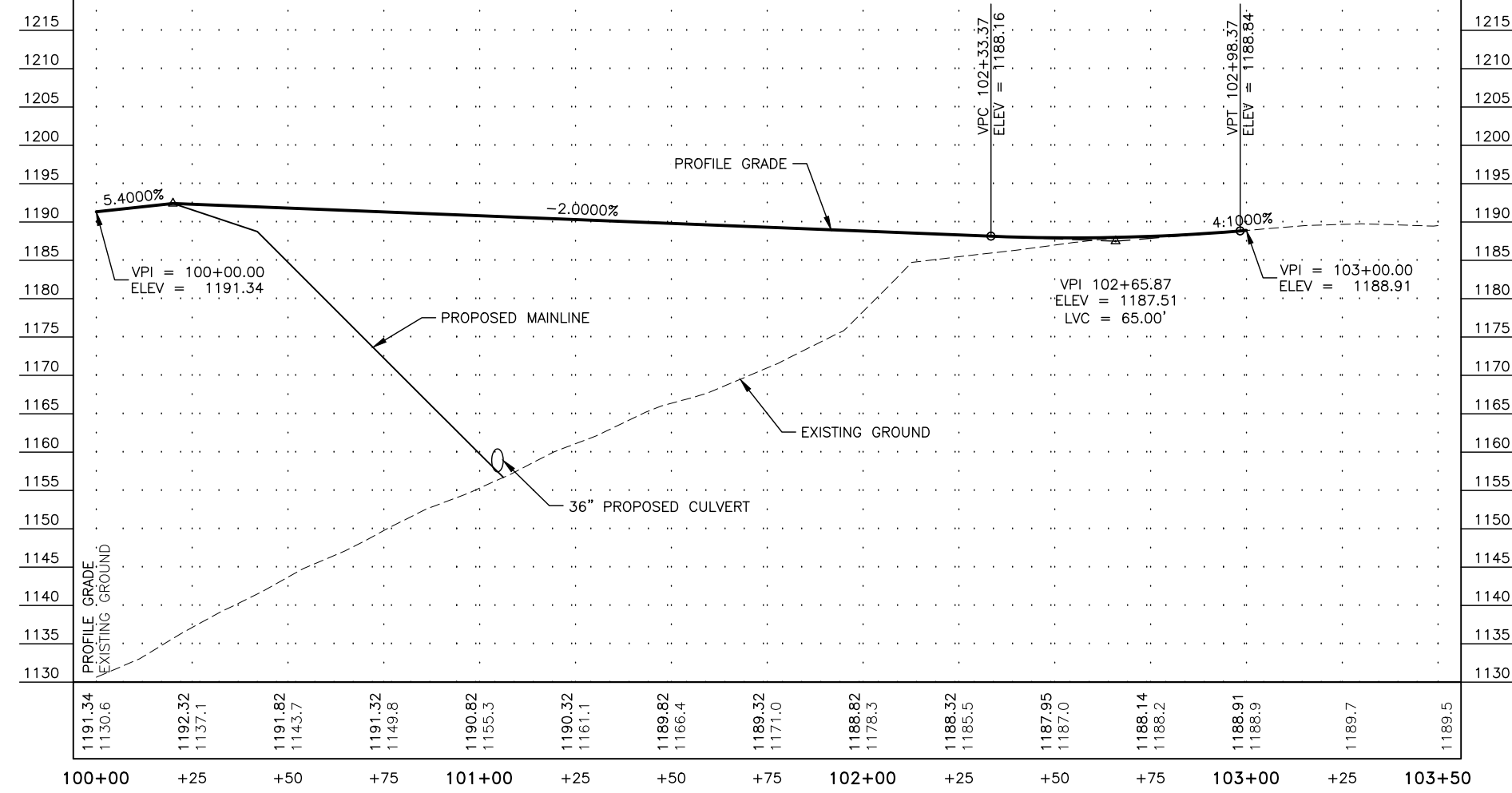
95% PS&E
07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	G2	G6



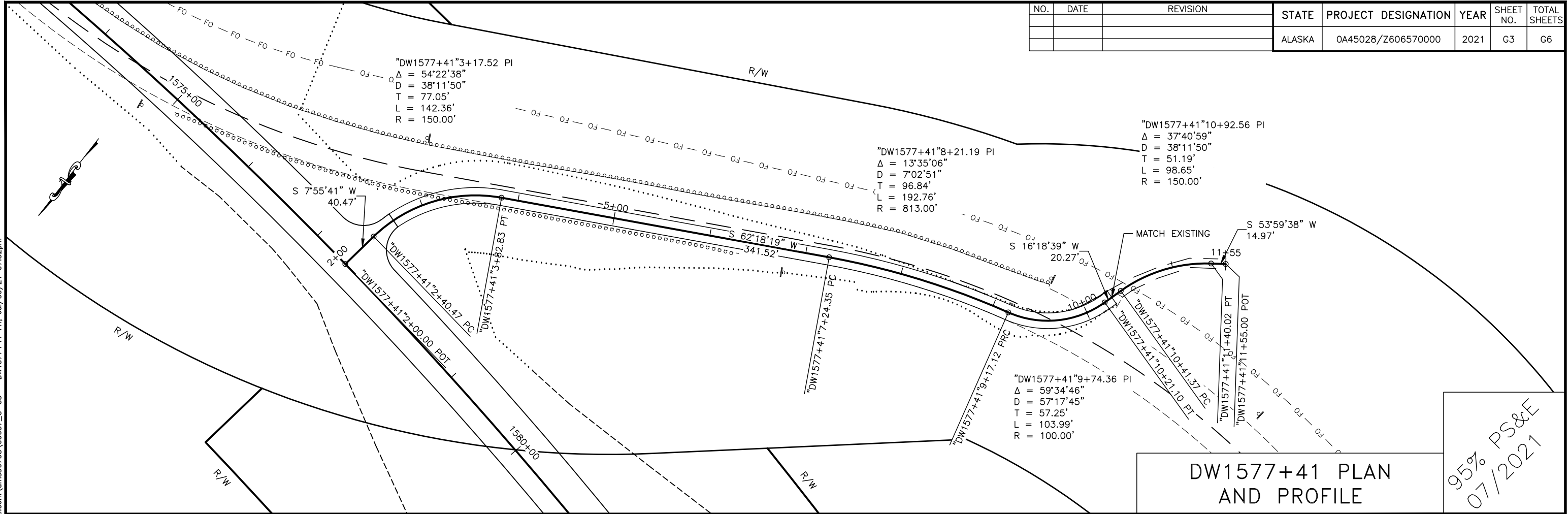
DW1536+00 PLAN AND PROFILE

95% PS&E
07/2021



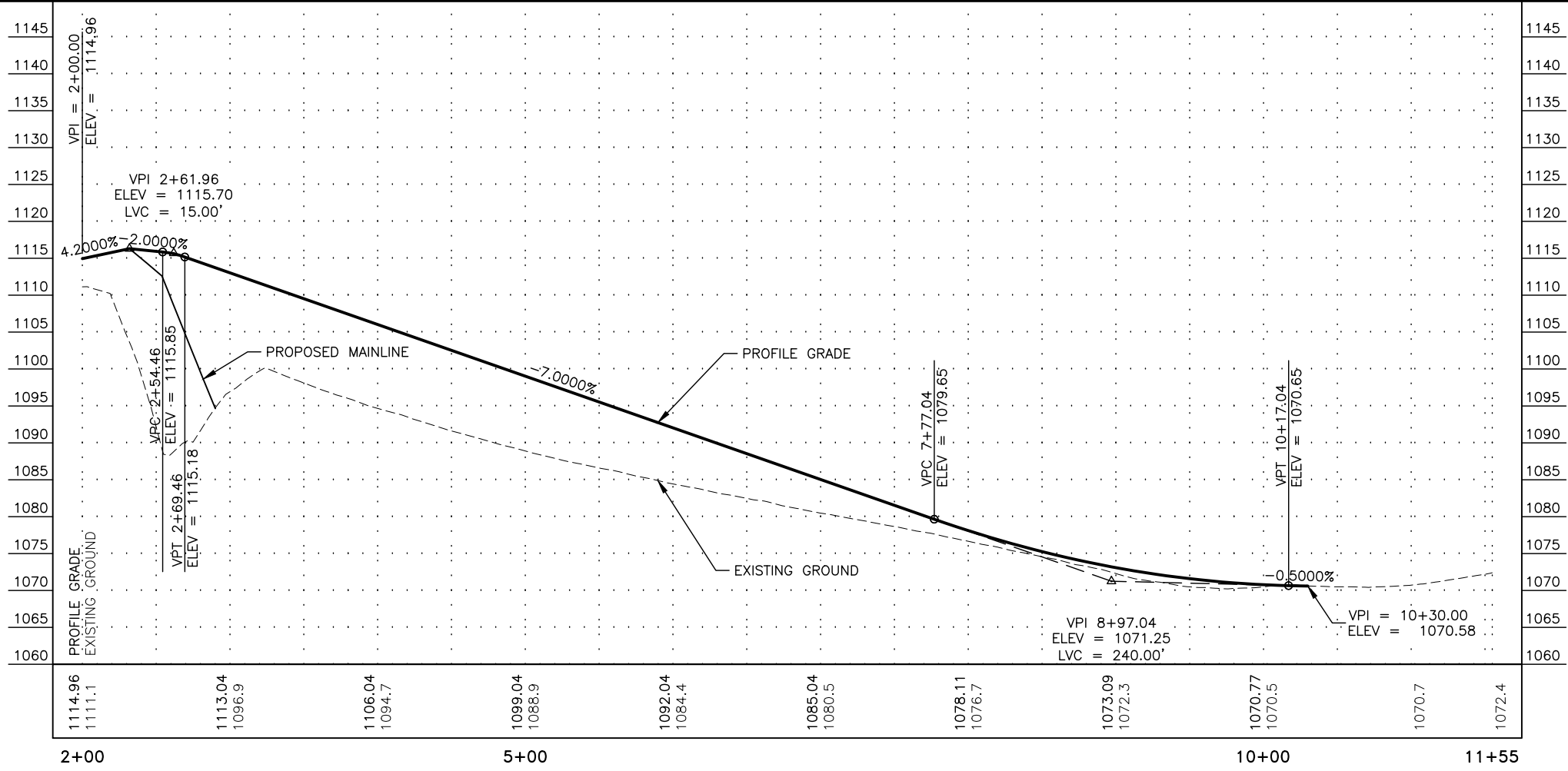
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A45028/Z606570000	2021	G3	G6



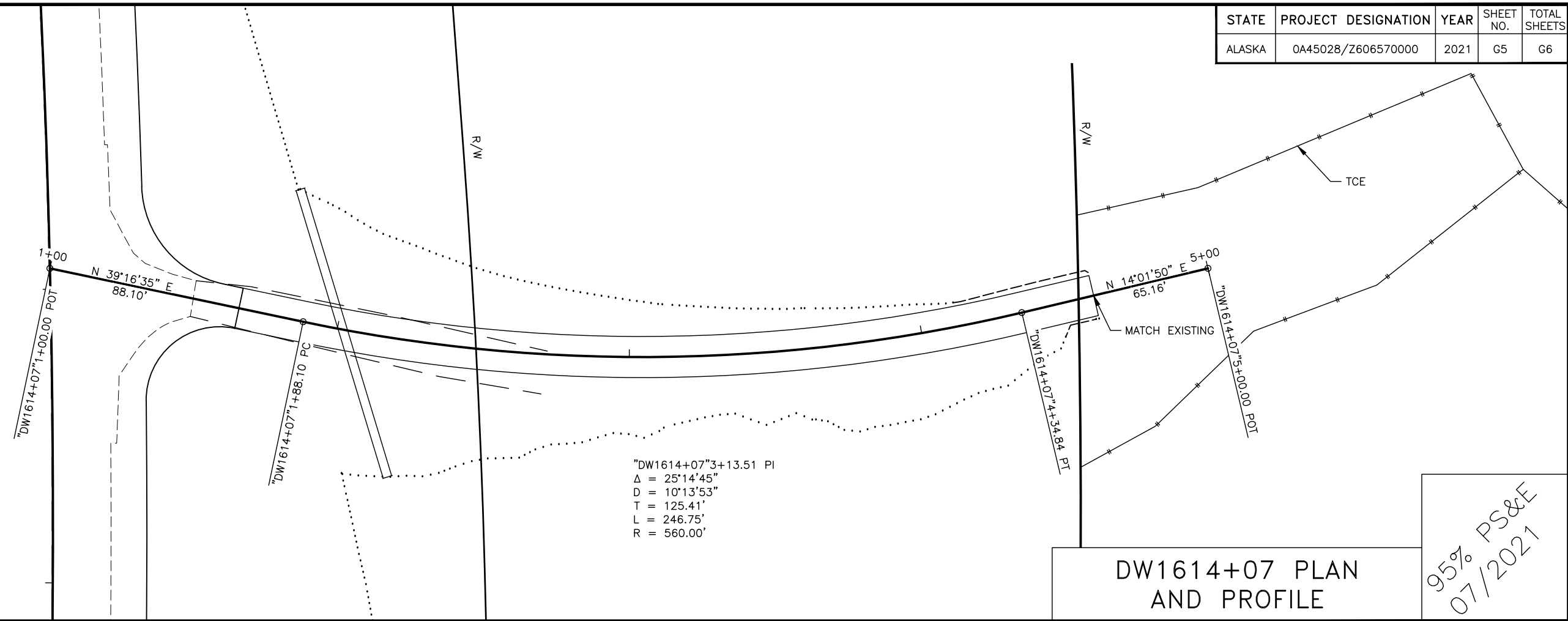
DW1577+41 PLAN AND PROFILE

95% PS&E
07/2021



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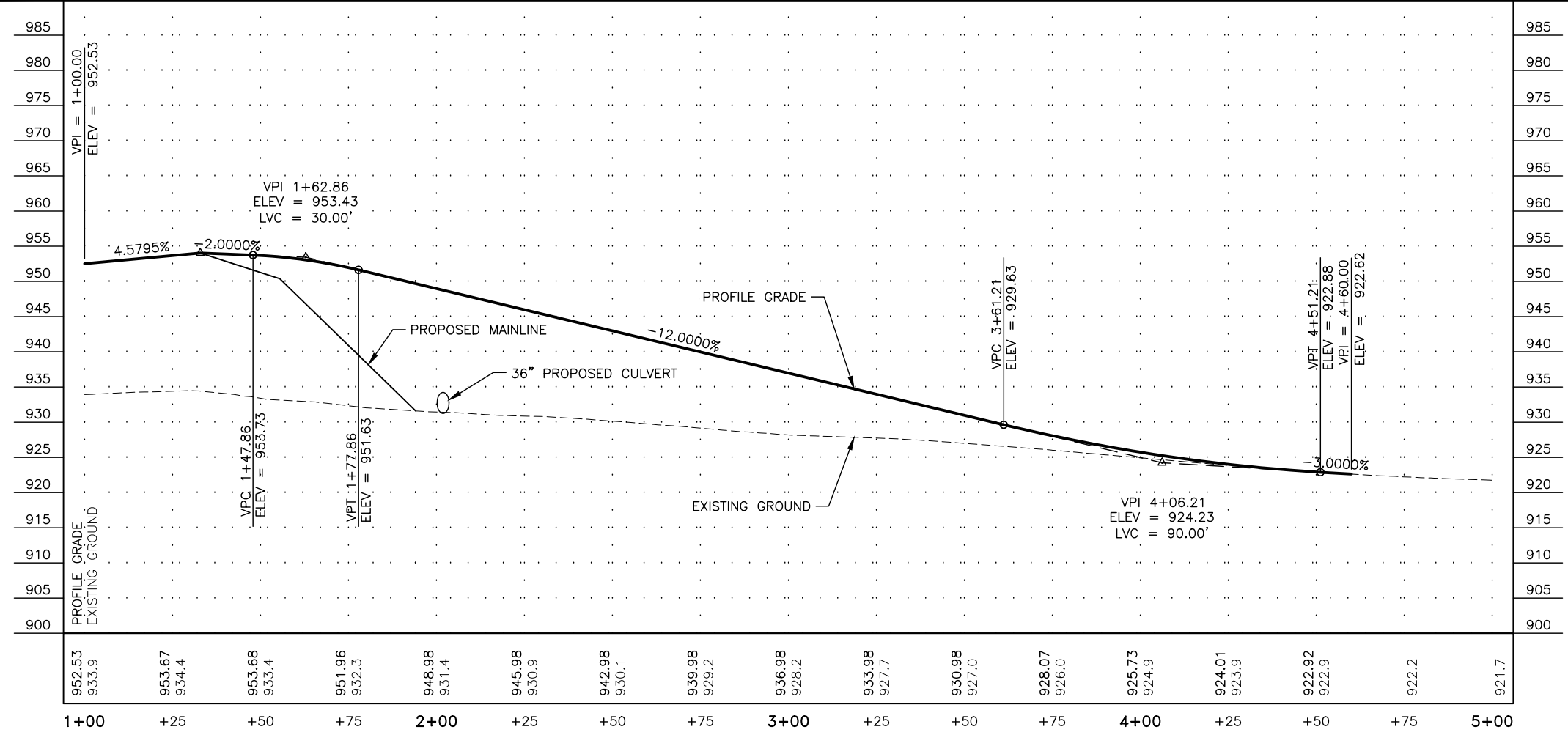
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	G5	G6



"DW1614+07"3+13.51 PI
 $\Delta = 25^{\circ}14'45''$
 $D = 10^{\circ}13'53''$
 $T = 125.41'$
 $L = 246.75'$
 $R = 560.00'$

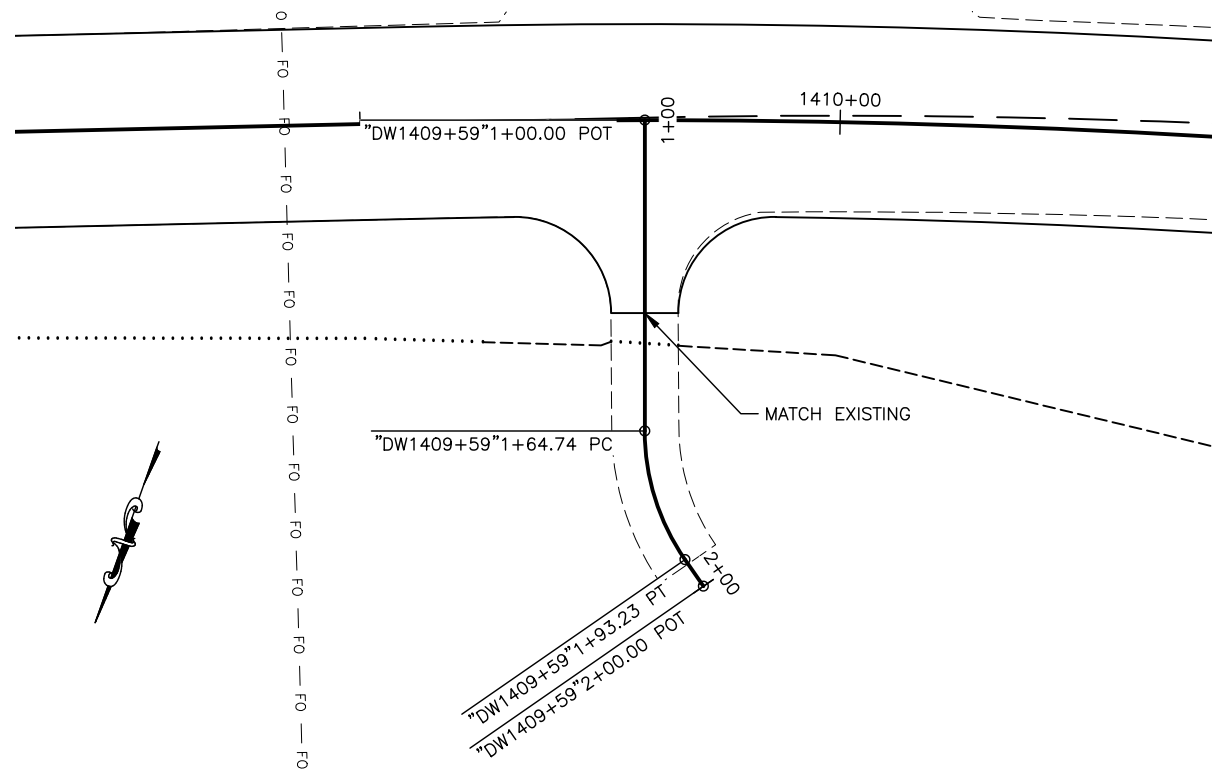
DW1614+07 PLAN AND PROFILE

95% PS&E
 07/2021

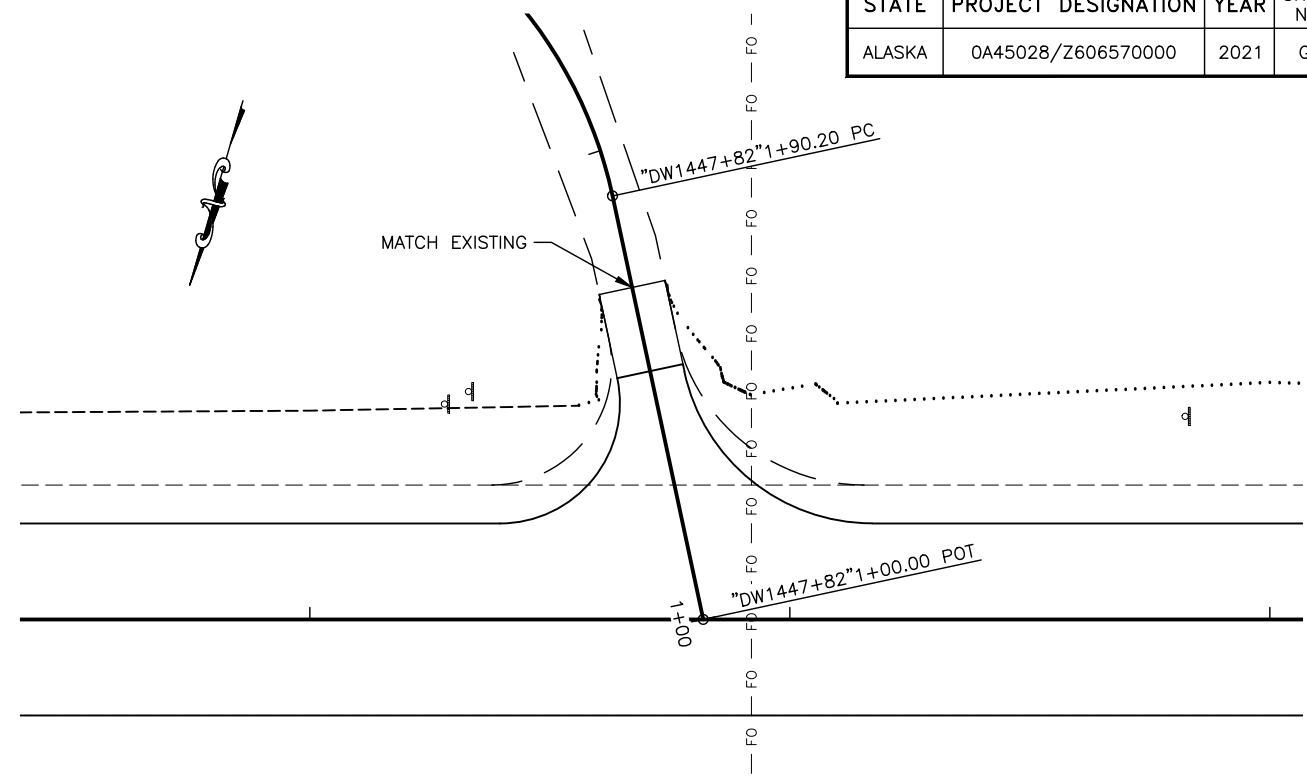


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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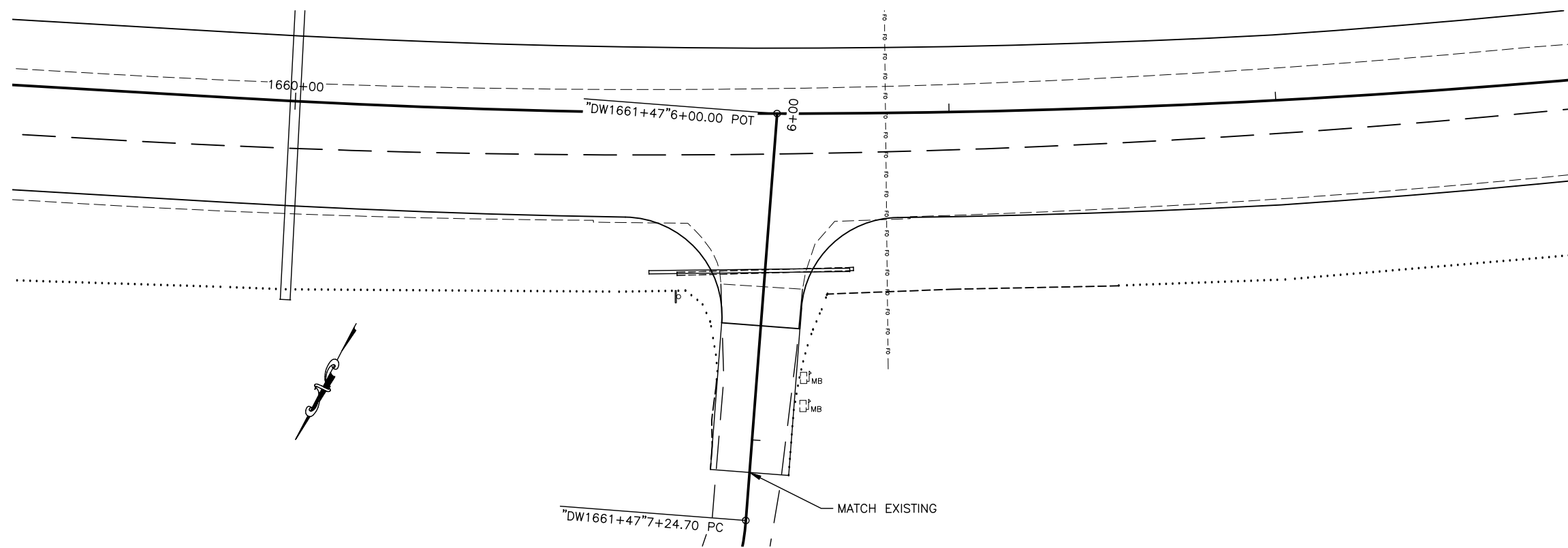
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	G6	G6



DW1409+59 PLAN



DW1447+82 PLAN



DW1661+47 PLAN

DRIVEWAY PLANS

95% PS&E
07/2021

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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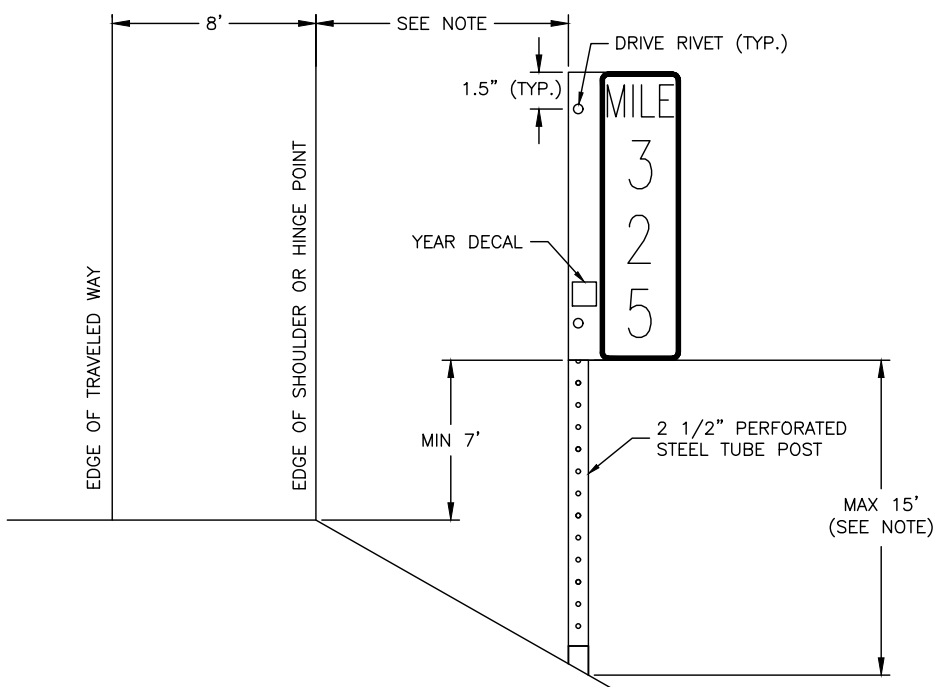
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	H1	H8

SIGNING SUMMARY

LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE H X V (INCHES)		BRACING/FRAMING		AREA (SQ.FT.)	MTG. HGT. (FT.)	DIR.	POST			REMARKS
		LT.	RT.			BRACED	FRAMED	TYPE	SIZE (INCHES)				NO.			
1	1392+54	X		D10-203	MILE 325	14 X 36			3.50		W/E	PST	2.5	1	MESSAGE ON BOTH SIDES	
				D14-100	ADOPT A HIGHWAY	30 X 24	X		5.00	W						
					RRC	30 X 12	X		2.50							
2	1447+33	X		D10-203	MILE 324	14 X 36			3.50		W/E	PST	2.5	1	MESSAGE ON BOTH SIDES	
3	1499+00		X	D17-2	PASSING LANE 2 MILES	42 X 42	X		12.25		E	PST	2.5	1		
4	1499+70	X		D10-203	MILE 323	14 X 36			3.50		W/E	PST	2.5	1	MESSAGE ON BOTH SIDES	
5	1542+00		X	W16-102	WATCH FOR ICE	30 X 30	X		6.25		NE	PST	2.5	1		
6	1543+80	X		R8-3	NO PARKING	36 X 36	X		9.00		NW	PST	2.5	1		
				SPECIAL	SNOW PLOW TURN AROUND <-->	30 X 24	X		5.00							
7	1544+30	X		R8-3	NO PARKING	36 X 36	X		9.00		NW	PST	2.5	1		
				SPECIAL	SNOW PLOW TURN AROUND <-->	30 X 24	X		5.00							
8	1546+00	X		D10-203	MILE 322	14 X 36			3.50		SW/NE	PST	2.5	1	MESSAGE ON BOTH SIDES	
9	1547+55		X	D2-3	Nenana 17 Clear 43 Anchorage 322	78 X 42	X		22.75		NE	TS	3	2	SEE NOTES 13 AND 14	
10	1550+41		X	W7-1	(HILL) SYMBOL	30 X 30	X		6.25		NE	PST	2.5	1		
11	1567+40	X		W4-2R	(RIGHT LANE ENDS) SYMBOL	36 X 36	X		9.00		W	PST	2.5	1		
12	1572+40	X		W9-1	RIGHT LANE ENDS	36 X 36	X		9.00		W	PST	2.5	1		
13	1593+20	X		D10-203	MILE 321	14 X 36			3.50		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES	
14	1602+40	X		R4-5	TRUCKS USE RIGHT LANE	24 X 30	X		5.00		NW	PST	2.5	1		
15	1604+60		X	R4-16	KEEP RIGHT EXCEPT TO PASS	24 X 30	X		5.00		SE	PST	2.5	1		
16	1628+80	X		D17-2	TRUCK LANE 1/2 MILE	42 X 42	X		12.25		W	PST	2.5	1		
17	1644+33	X		D10-203	MILE 320	14 X 36			3.50		W/E	PST	2.5	1	MESSAGE ON BOTH SIDES	
18	1646+00		X	W9-1	RIGHT LANE ENDS	36 X 36	X		9.00		E	PST	2.5	1		
19	1651+00		X	W4-2R	(RIGHT LANE ENDS) SYMBOL	36 X 36	X		9.00		NE	PST	2.5	1		
20	1661+66	X		D3-1	Dineege Ave	60 X 12			5.00		SW/NE	PST	2.5	1	MESSAGE ON BOTH SIDES	
				R1-1	STOP	30 X 30	X		6.25	NW						
SUBTOTAL = 173.50																

SIGNING NOTES:

- REMOVE AND DISPOSE OF ALL EXISTING SIGNS AND SIGN FOUNDATIONS WITHIN THE PROJECT LIMITS.
- INSTALL MILEPOST SIGNS (D10-203 SERIES) IN ACCORDANCE WITH STANDARD PLAN S-05.02, EXCEPT WITH A 15 TO 30 FOOT OFFSET. REDUCE THE OFFSET AS NECESSARY SO THE BOTTOM OF THE SIGN IS NO MORE THAN 15 FEET ABOVE THE GROUND. THE SIGN OFFSET SHALL NOT BE LESS THAN THE OFFSETS SHOWN IN S-05.02.
- MOUNTING HEIGHTS ARE PER STANDARD PLAN S-05.02 UNLESS OTHERWISE NOTED.
- DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
- INSTALL PST SIGN POSTS WITH SLEEVE TYPE CONCRETE FOUNDATION PER STANDARD PLAN S-30.05. ATTACH THE SIGN POST TO THE SLEEVE USING GALVANIZED 3/8" BOLT, NUT, SPLIT LOCK WASHER AND TWO FLAT WASHERS.
- 1/4" X 1 1/2" ALUMINUM ALLOY 6061-T6 BAR MAY ALSO BE USED TO FABRICATE SIGN BRACES.
- ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PST POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
- ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE "FASTENER SPECIFICATION TABLE" ON SHEET H1.
- MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
- LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO: FIBER OPTIC CABLE, TELEPHONE AND ELECTRICAL CABLES, PRIOR TO INSTALLING SIGN POSTS. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON THE PLANS.
- THE 4" MOUNTING AREA ON MILEPOST SIGNS (D10-203 SERIES) SHALL BE BARE ALUMINUM. THIS ELIMINATES THE OPTION OF INSTALLING GREEN REFLECTIVE SHEETING IN THIS AREA AS NOTED IN THE ASDS.
- FABRICATE ALL SIGNS FROM 0.125 INCH THICK SHEET ALUMINUM.
- INSTALL WEATHER TIGHT CAPS ON ALL TS POSTS.
- INSTALL FRANGIBLE COUPLING SYSTEMS IN ACCORDANCE WITH STANDARD PLAN S-31.02.
- CLEARING, AS DIRECTED BY ENGINEER, MAY BE REQUIRED TO ENSURE ADEQUATE VISIBILITY OF SIGNS. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.



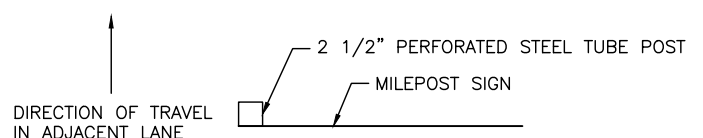
MILEPOST DETAIL

MILEPOST SIGN NOTE:

INSTALL MILEPOST SIGNS (D10-203 SERIES) WITH A 15 TO 30 FOOT OFFSET. REDUCE THE OFFSET AS NECESSARY SO THE BOTTOM OF THE SIGN IS NO MORE THAN 15 FEET ABOVE THE GROUND. THE SIGN OFFSET SHALL NOT BE LESS THAN THE OFFSETS SHOWN ON STANDARD PLAN S-05.02.

FASTENER SPECIFICATION TABLE		
FASTENERS	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	ASTM A 563	ASTM F 594
WASHERS	ASTM F 844	ASTM A 480

THESE SPECIFICATIONS APPLY TO ALL SIGN FASTENER HARDWARE ON THE PROJECT.



MILEPOST MOUNTING DETAIL

POST TYPE LEGEND:

- PST = PERFORATED STEEL TUBE
- TS = TUBE STEEL

SIGNING SUMMARY

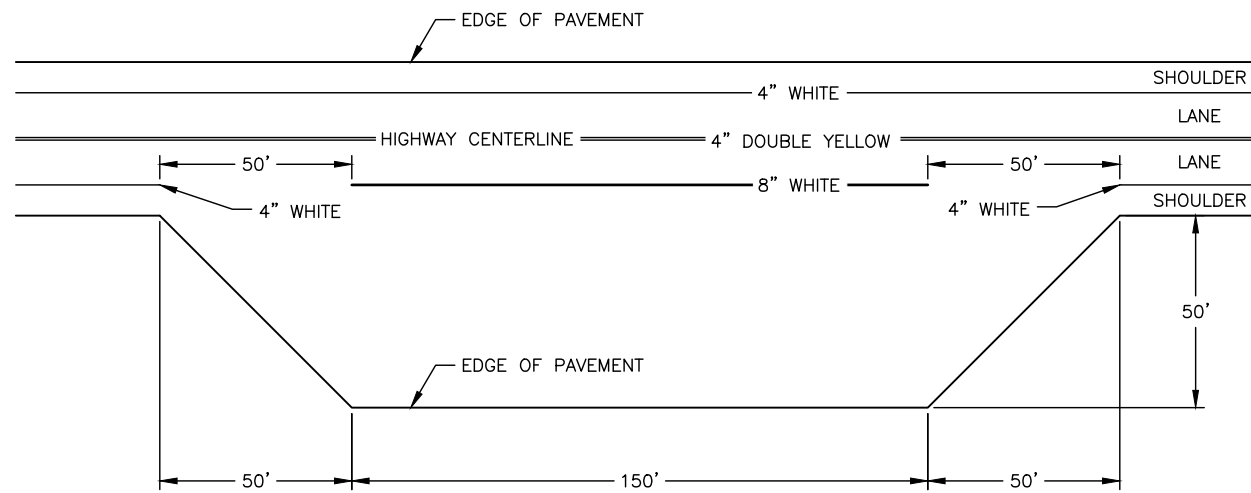
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 07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	H2	H8

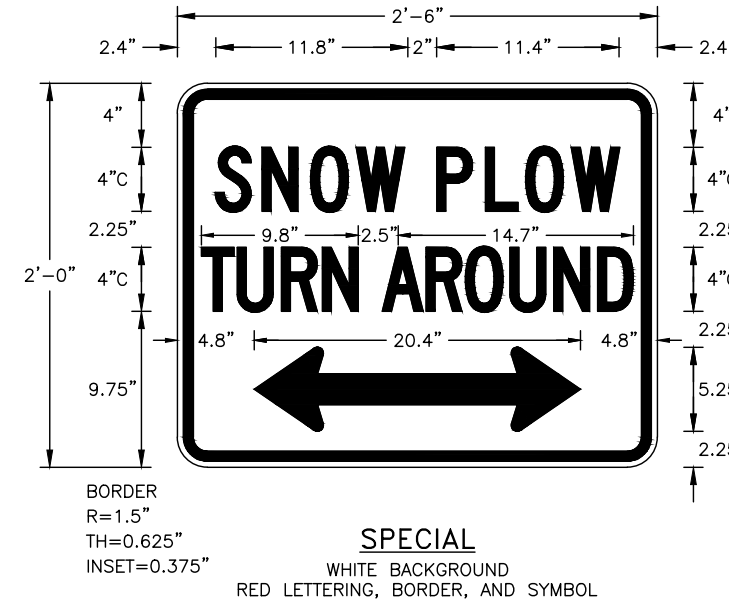
PAINTED TRAFFIC MARKINGS SUMMARY		
DESCRIPTION	LENGTH (FT)	REMARKS
4" WHITE	55,070	
4" WHITE SKIP	8,740	SEE AUXILIARY LANE STRIPING DETAIL ON SHEET H3
8" WHITE	480	SEE TURNOUT STRIPING DETAIL
4" DOUBLE YELLOW	18,100	
4" YELLOW	7,400	
4" YELLOW SKIP	9,800	
LANE DROP ARROW	6 (EACH)	SEE AUXILIARY LANE STRIPING DETAIL ON SHEET H3

TRAFFIC MARKING NOTES:

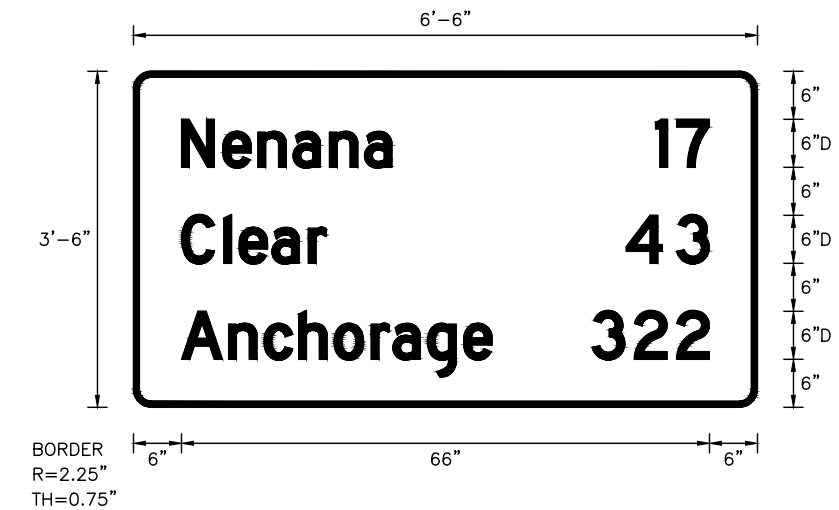
- IF NEW AND EXISTING LONGITUDINAL MARKINGS ARE NOT ALIGNED AT THE MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER.
- THE STRIPE/SKIP RATIO FOR THIS PROJECT WILL BE 10 FT/30 FT. THE PASS/NO-PASS ZONES WILL BE DETERMINED IN THE FIELD BY THE CONTRACTOR ACCORDING TO SECTION 670. THIS WORK IS SUBSIDIARY TO PAY ITEM 670.0001.0000 PAINTED TRAFFIC MARKINGS.
- PAVEMENT MARKINGS WILL BE PLACED IN ACCORDANCE WITH STANDARD PLANS T-20.04 AND T21.04 AND SECTION 670.
- LENGTH OF 4" DOUBLE YELLOW IS BASED ON A CONTINUOUS 4" DOUBLE YELLOW STRIPE THROUGH THE LENGTH OF THE PROJECT. NO ADJUSTMENT WILL BE MADE TO THE 670.0001.0000 PAY ITEM FOR DIFFERENCES IN QUANTITY OF YELLOW STRIPE ACCORDING TO 670-3.05, PRELIMINARY SPOTTING.



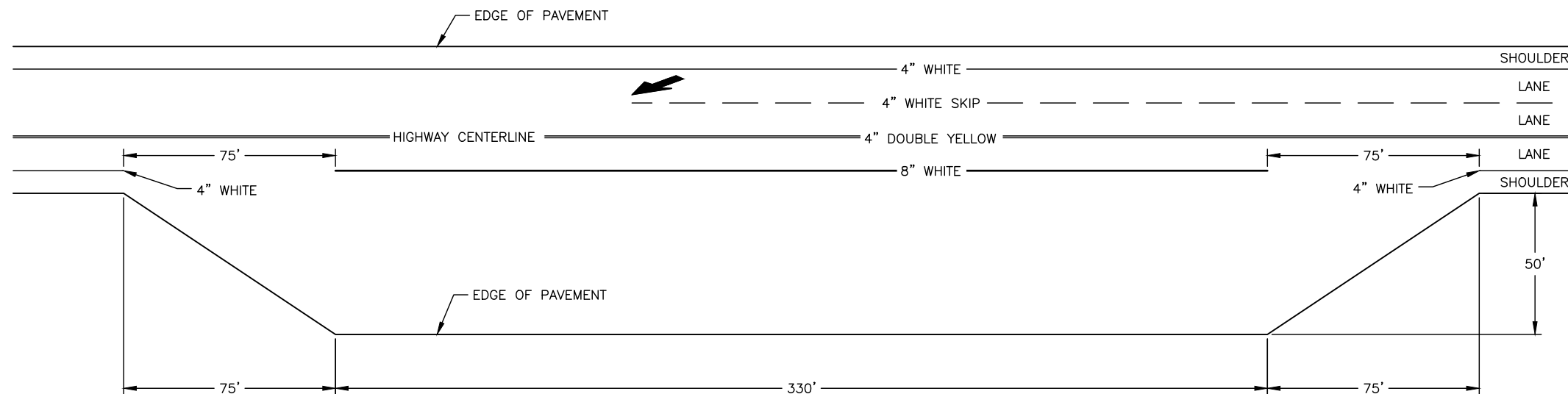
SNOWPLOW TURNAROUND STRIPING DETAIL



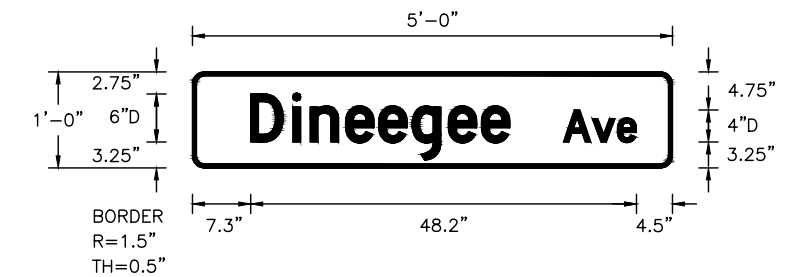
SPECIAL
WHITE BACKGROUND
RED LETTERING, BORDER, AND SYMBOL



D2-3



TURNOUT STRIPING DETAIL

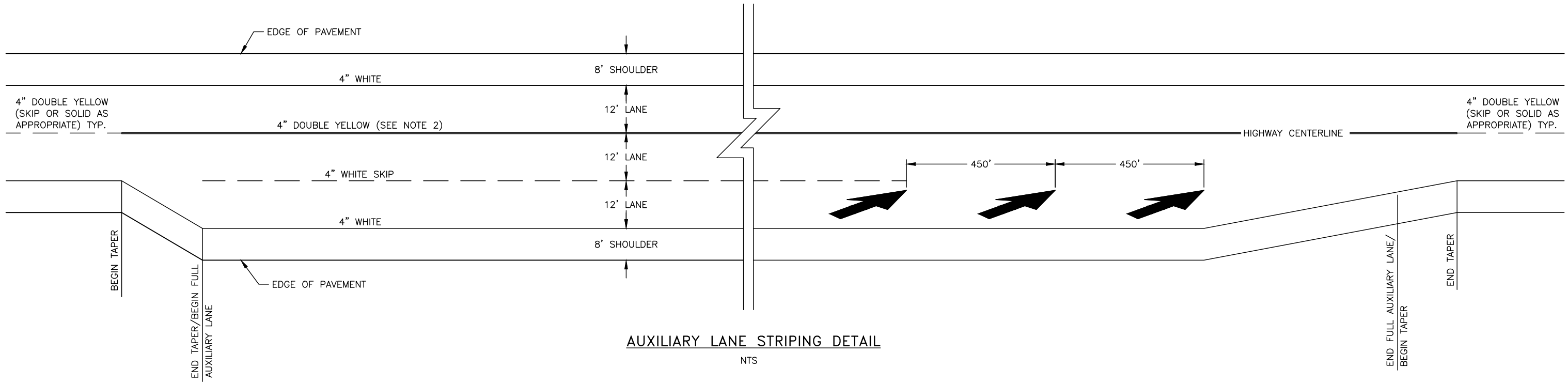


D3-1

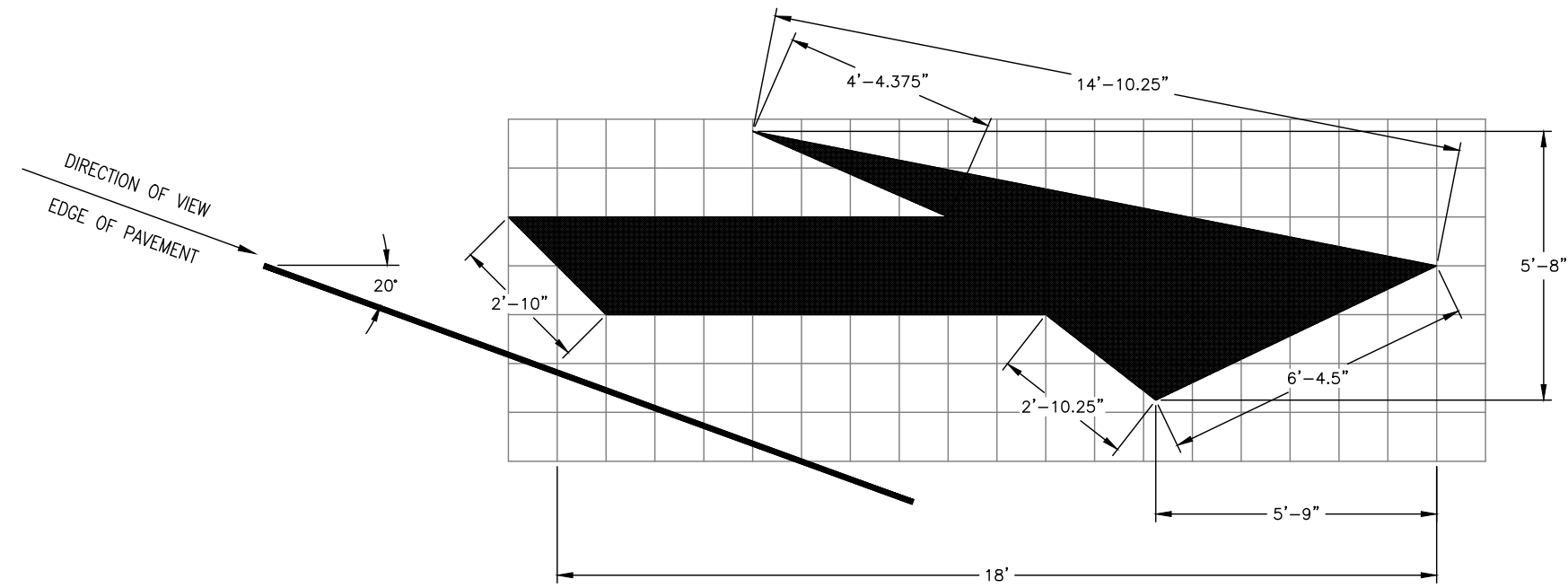
SIGNING AND STRIPING
DETAILS

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	H3	H8



AUXILIARY LANE STRIPING DETAIL
NTS



LANE DROP ARROW
NTS

NOTES:

1. SEE F SHEETS FOR EDGE OF PAVEMENT TAPER STATIONS.
2. FOR AUXILIARY LANES ON ONLY ONE SIDE, PASS/NO PASS ZONES IN THE DIRECTION OPPOSING THE AUXILIARY LANE WILL BE DETERMINED ACCORDING TO SECTION 670. USE CENTERLINE STRIPING TO ALLOW PASSING IN PASS ZONES.

**AUXILIARY LANE STRIPING
DETAILS**

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PLAN VIEW KEY

STATION
SIGN CODE(S)
SIGN LOCATION #

TRAFFIC MARKING KEY

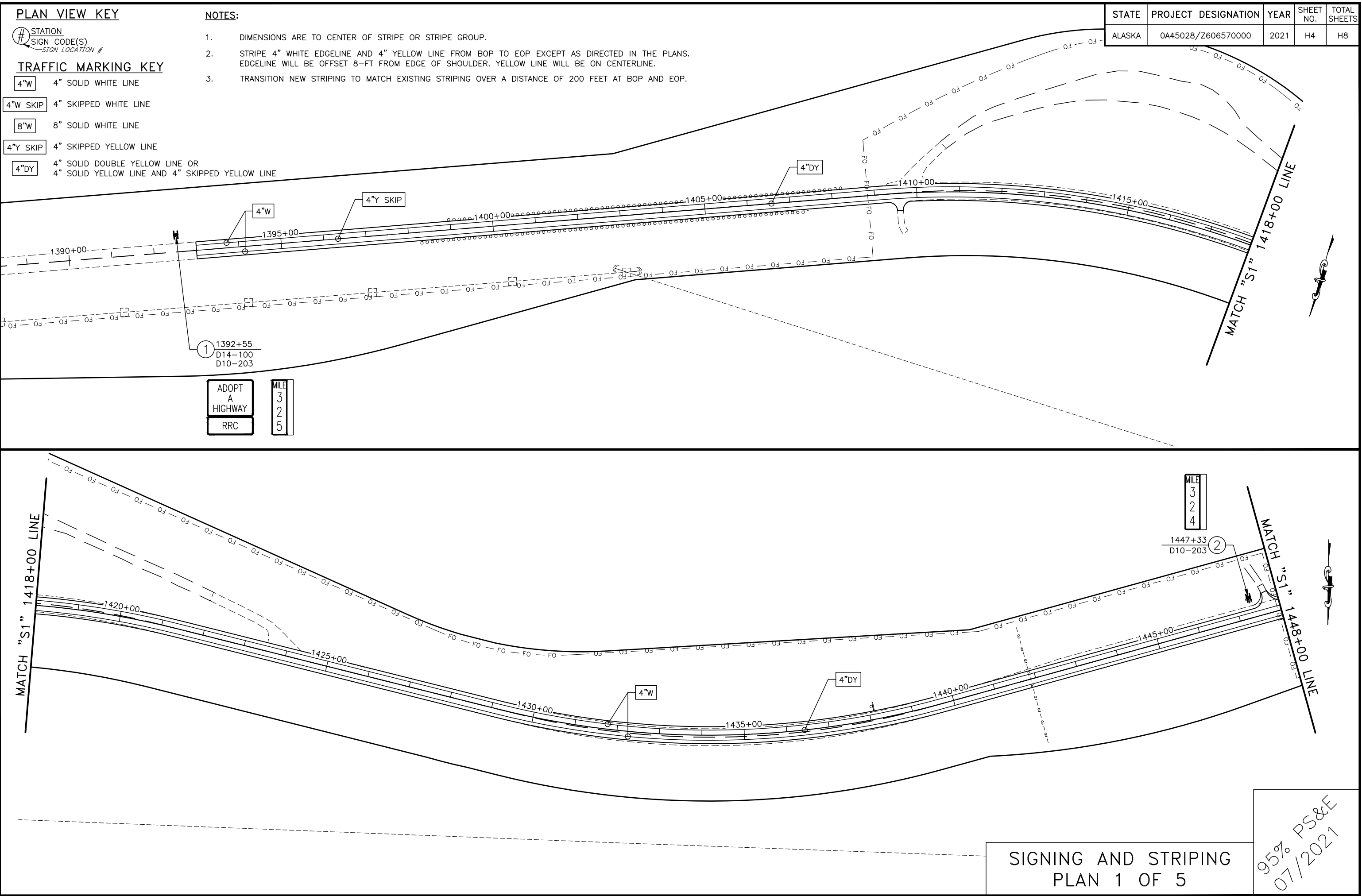
- 4"W 4" SOLID WHITE LINE
- 4"W SKIP 4" SKIPPED WHITE LINE
- 8"W 8" SOLID WHITE LINE
- 4"Y SKIP 4" SKIPPED YELLOW LINE
- 4"DY 4" SOLID DOUBLE YELLOW LINE OR
4" SOLID YELLOW LINE AND 4" SKIPPED YELLOW LINE

NOTES:

1. DIMENSIONS ARE TO CENTER OF STRIPE OR STRIPE GROUP.
2. STRIPE 4" WHITE EDGELINE AND 4" YELLOW LINE FROM BOP TO EOP EXCEPT AS DIRECTED IN THE PLANS. EDGELINE WILL BE OFFSET 8-FT FROM EDGE OF SHOULDER. YELLOW LINE WILL BE ON CENTERLINE.
3. TRANSITION NEW STRIPING TO MATCH EXISTING STRIPING OVER A DISTANCE OF 200 FEET AT BOP AND EOP.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	H4	H8

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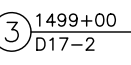
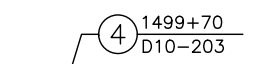
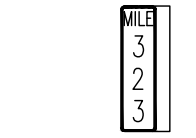
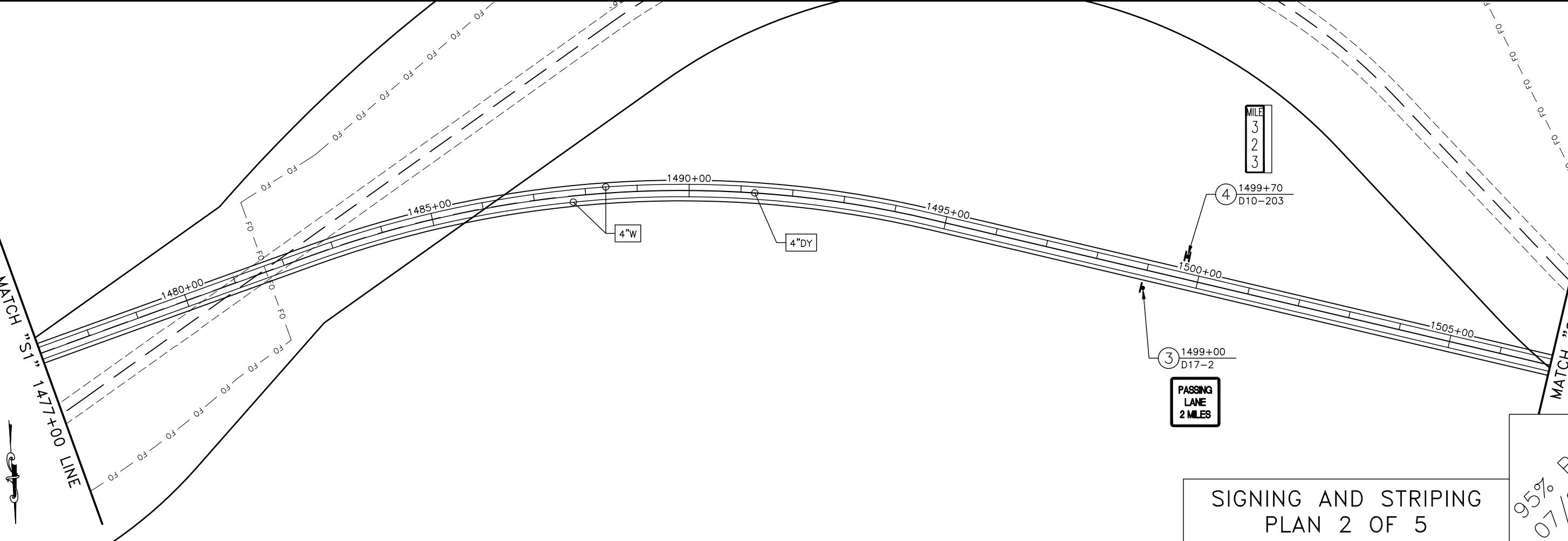
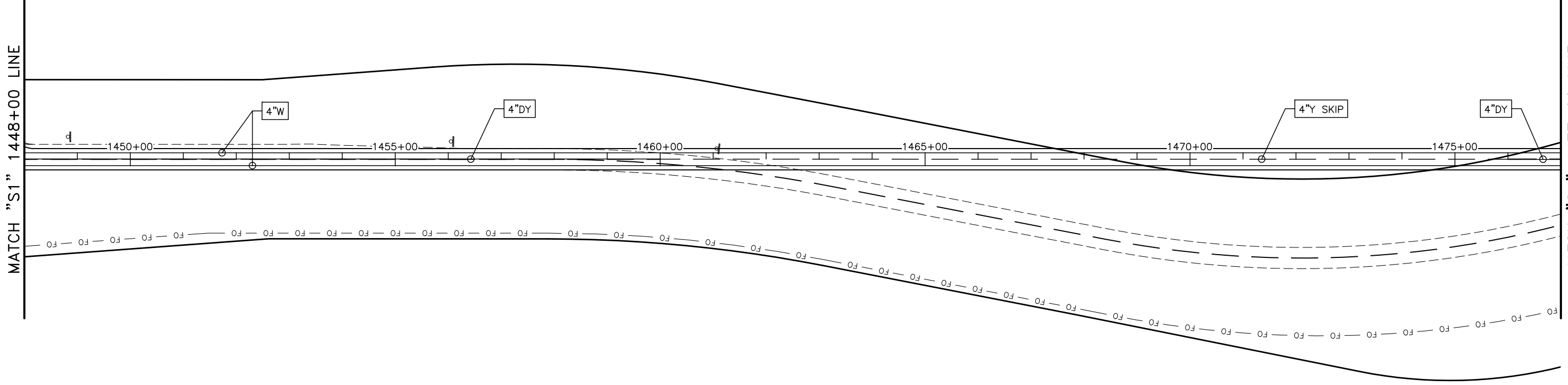
ADOPT A HIGHWAY	MILE 3 2 5
RRC	

MILE 3 2 4

SIGNING AND STRIPING
PLAN 1 OF 5

95% PS&E
07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	H5	H8



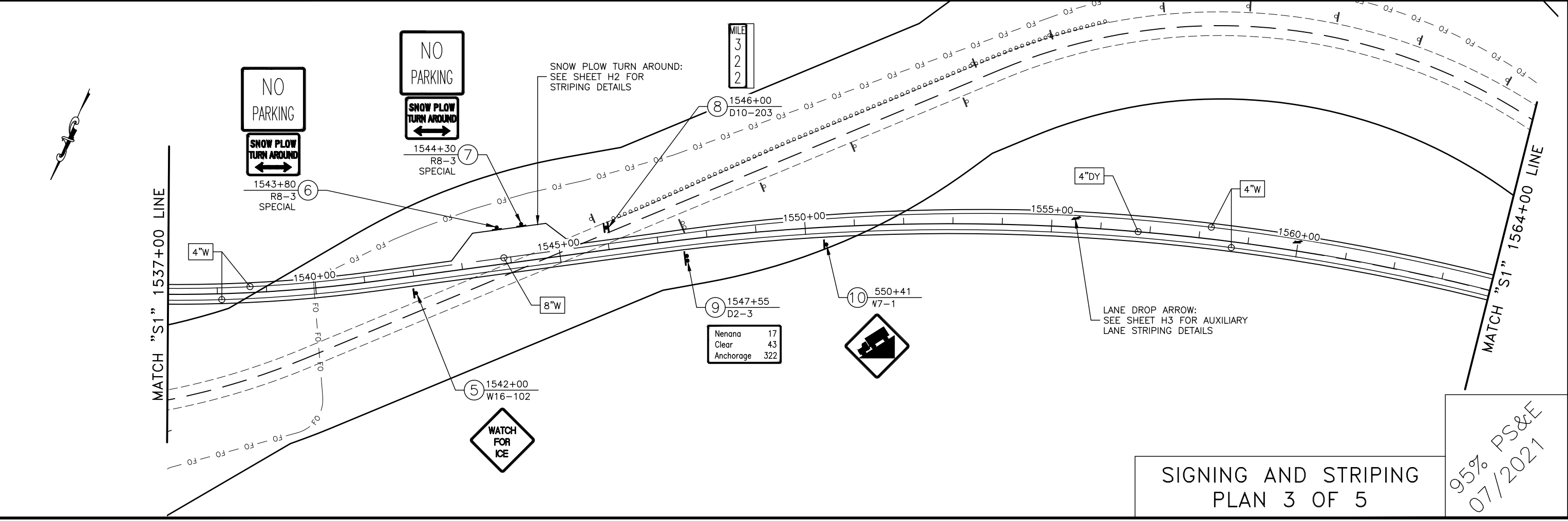
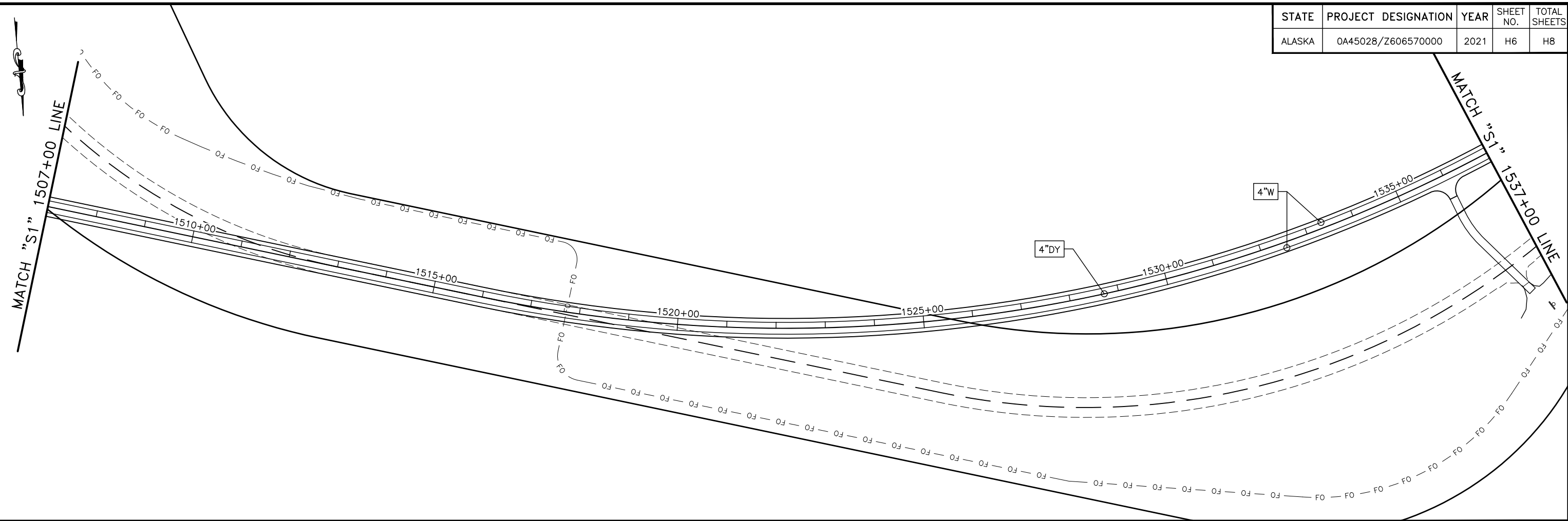
PASSING
LANE
2 MILES

SIGNING AND STRIPING
PLAN 2 OF 5

95% PS&E
07/2021

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	H6	H8

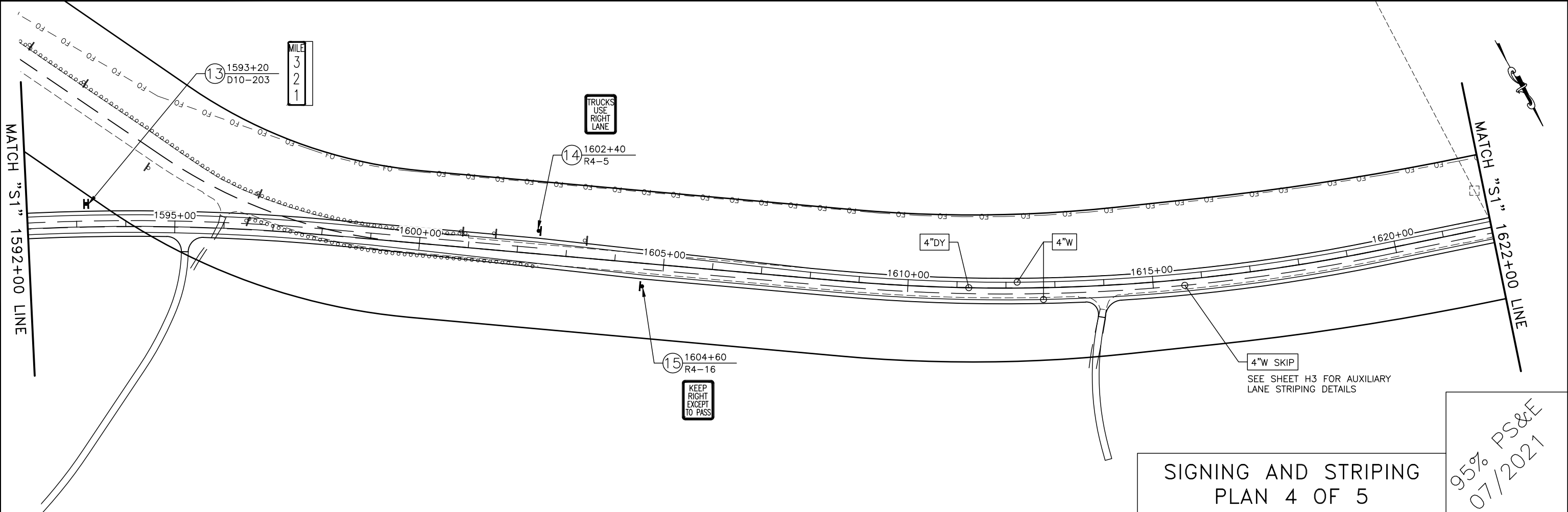
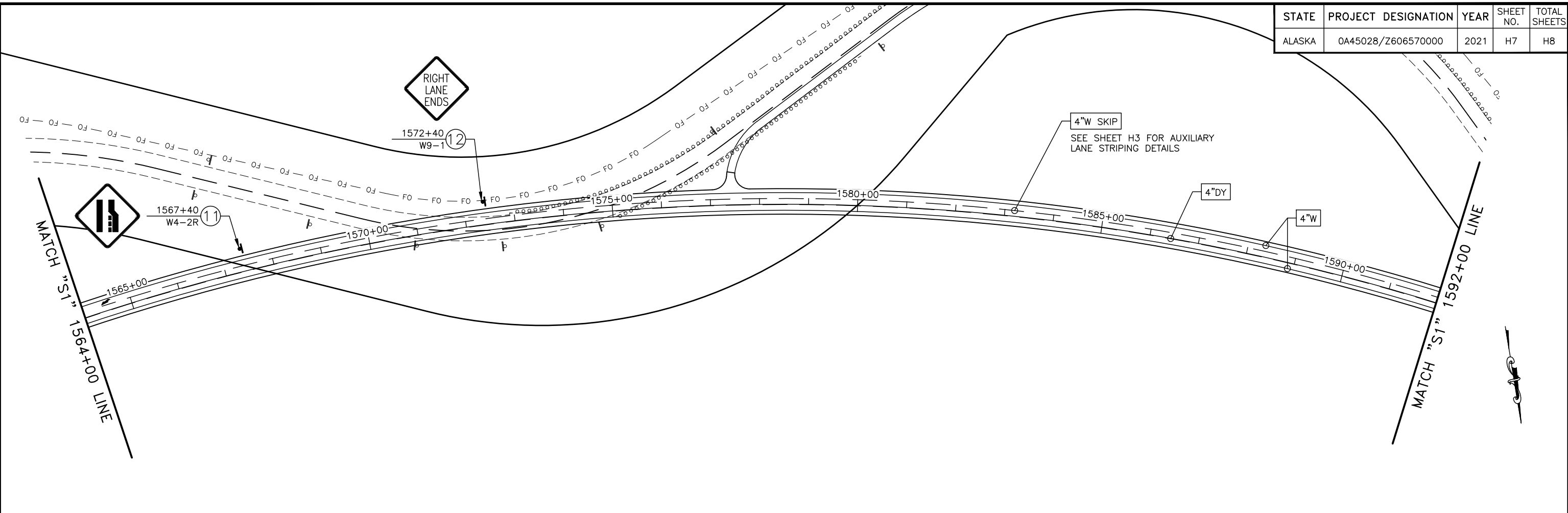


SIGNING AND STRIPING
PLAN 3 OF 5

95% PS&E
07/2021

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	H7	H8

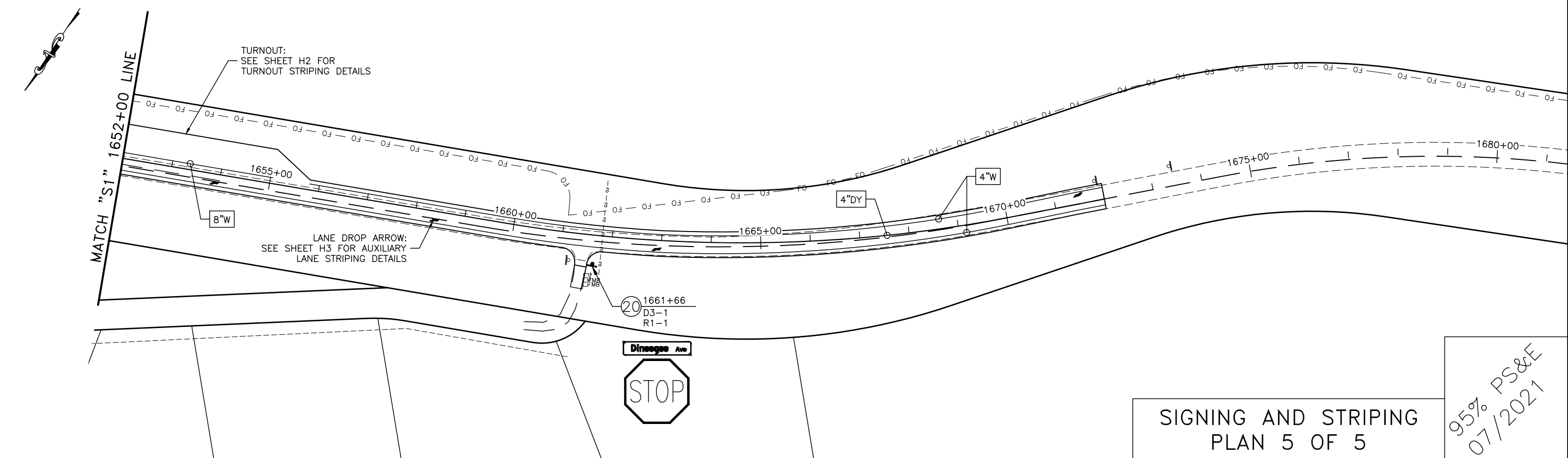
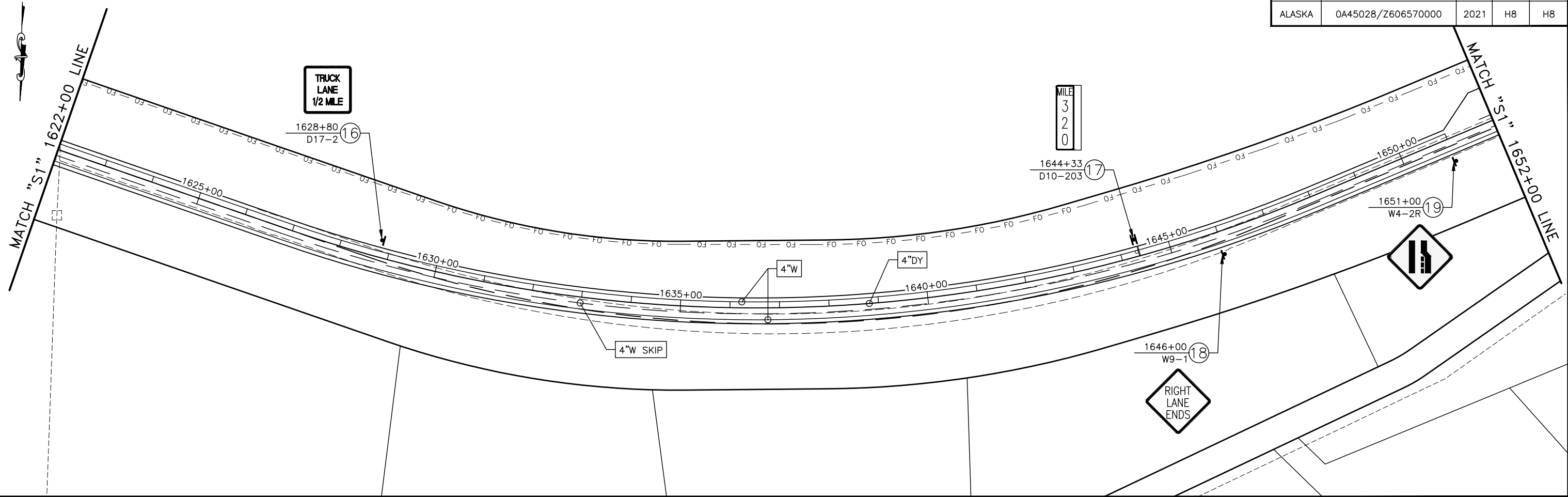


SIGNING AND STRIPING
PLAN 4 OF 5

95% PS&E
07/2021

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	H8	H8

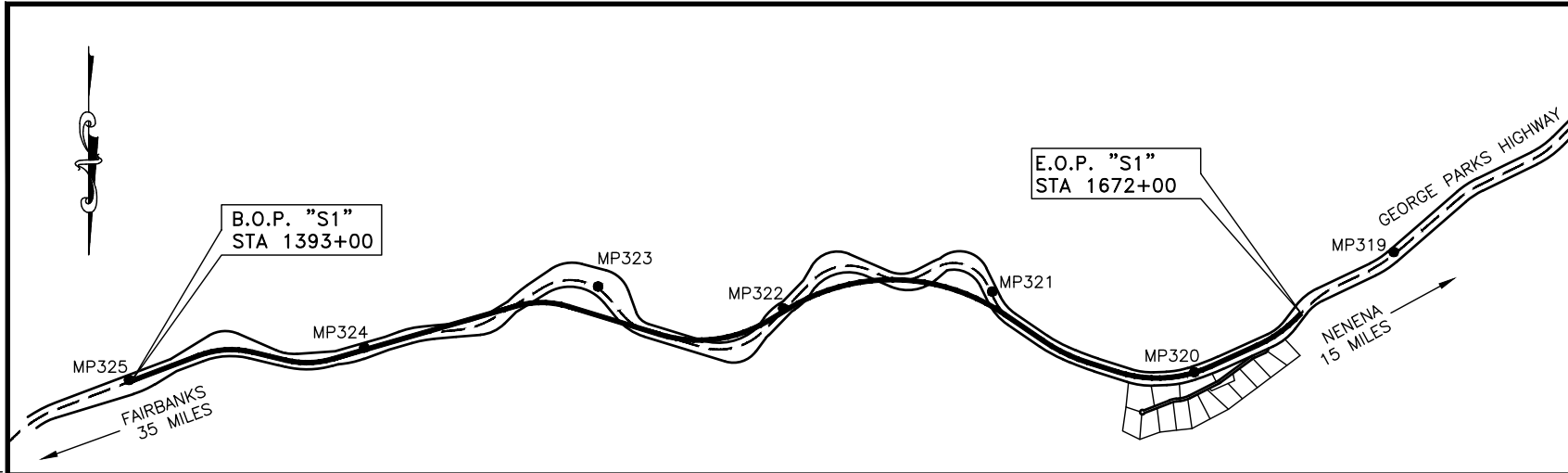


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SIGNING AND STRIPING
PLAN 5 OF 5

95% PS&E
07/2021

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q1	Q9



VICINITY MAP

ESCP GENERAL NOTES:

GENERAL:

1. READ AND COMPLY WITH THE ADEC CONSTRUCTION GENERAL PERMIT (CGP) AND SECTION 641 OF THE PROJECT SPECIFICATIONS.
2. INITIATE EROSION AND SEDIMENT CONTROLS PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
3. THE CONTRACTOR MUST PROVIDE EROSION AND SEDIMENT CONTROL (ESC) MEASURES IN ACCORDANCE WITH THEIR SWPPP (STORM WATER POLLUTION PREVENTION PLAN).
4. ALL DISTURBED GROUND CAPABLE OF SUPPORTING VEGETATION MUST BE RE-VEGETATED FOR FINAL STABILIZATION. FINAL STABILIZED AREAS NOT RE-VEGETATED MUST BE 100% COVERED BY ROCK OR OTHER PERMANENT NON-ERODIBLE MATERIAL. ATTAINMENT OF FINAL STABILIZATION WILL BE AS APPROVED IN THE FIELD BY THE ENGINEER.
5. STOCKPILE AND STAGING LOCATIONS MUST BE RECLAIMED TO THEIR ORIGINAL CONDITION AS APPROVED BY THE ENGINEER.
6. TEMPORARY BMP'S REQUIRED BY THIS ESCP WILL NOT BE MEASURED FOR PAYMENT AND ARE SUBSIDIARY TO PAY ITEM 641.0003.0000.
7. EXISTING GROUND CONTOURS ARE DISPLAYED AT 2' MINOR AND 10' MAJOR INTERVALS.
8. STABILIZE THE TEMPORARY DIVERSION TO PREVENT EROSION AND SEDIMENT TRANSPORT.

CULVERTS:

9. PROVIDE TEMPORARY INLET AND OUTLET PROTECTION FOR ALL CULVERTS (EXISTING AND PROPOSED) IN THE AREA OF DISTURBANCE PRIOR TO MAKING THEM OPERATIONAL OR BEGINNING EARTH DISTURBING ACTIVITIES.
10. PERMANENT CULVERT INLET AND OUTLET PROTECTION IS ESTABLISHED VEGETATION UNLESS OTHERWISE NOTED IN PLANS.

DITCH PROTECTION AND CONCENTRATED FLOWS:

11. DURING CONSTRUCTION, PROTECT DITCHES TO LIMIT RELEASE OF SEDIMENT. PROVIDE TEMPORARY DITCH PROTECTION IN THE FORM OF VELOCITY CONTROLS OR TEMPORARY NON-ERODIBLE LINING.
12. EXPOSED MATERIAL OF NEW DITCHES CAPABLE OF SUPPORTING VEGETATION MUST BE SEEDED PER THE PLANS FOR FINAL STABILIZATION.
13. WHEN POSSIBLE, AVOID CONDITIONS WHICH PROMOTE CONCENTRATED FLOWS. OTHERWISE, INSTALL VELOCITY CONTROLS BMP'S (I.E. WATTLE CHECK DAMS OR ROCK CHECK DAMS) OR NON-ERODIBLE CHANNEL LINING (I.E. DITCH LINING).

HAULING:

14. ENSURING LOADS ARE STABLE OR COVERED SO THAT NO MATERIAL ESCAPEMENT OCCURS DURING HAULING ACTIVITIES.
15. STABILIZED CONSTRUCTION EXITS MUST BE SWEEPED CLEAN EACH SHIFT OR AS DIRECTED BY THE ENGINEER.

STOCKPILE PROTECTION:

16. ALL ERODIBLE STOCKPILES MUST BE CONTROLLED BY EROSION AND SEDIMENT CONTROL DEVICES.
17. EROSION AND SEDIMENT CONTROL BMP'S MAY HAVE TO BE REMOVED AND RE-INSTALLED EACH SHIFT.
18. COVER MUST BE USED ON STOCKPILES IN ACCORDANCE WITH SUBSECTION 641-3.01.5 TO PROVIDE ADDITIONAL EROSION PROTECTION.
19. LIMIT STOCKPILING OF NATIVE TOPSOIL/ORGANICS FROM GRUBBING ACTIVITIES TO SHALLOW 3-FT HIGH BERMS.

TIMING OF BMP INSTALLATION:

20. INSTALL EROSION AND SEDIMENT CONTROL BMP'S PRIOR TO THE START OF CONSTRUCTION, AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE.
21. INSTALL TEMPORARY PERIMETER CONTROL BMP'S BEFORE ANY UP-GRADIENT SOIL DISTURBANCE OCCURS.
22. START PLACEMENT OF DITCH LINING OR OTHER DISSIPATION MEASURES WITHIN 24 HOURS OF PLACEMENT OF THE CULVERT AND COMPLETED IN ONE CONTINUOUS OPERATION.

ENVIRONMENTAL INFORMATION:

- RECEIVING WATER BODIES: LITTLE GOLDSTREAM CREEK WATERSHED, GOLDSTREAM CREEK WATERSHED
- IMPAIRED WATER BODIES: N/A
- TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS: N/A
- THREATENED AND ENDANGERED SPECIES: N/A
- HISTORIC PLACES: N/A
- MIGRATORY BIRD TREATY: ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE MIGRATORY BIRD TREATY ACT TO PREVENT THE KILLING OR TAKING OF MIGRATORY BIRDS OR ANY PART, NEST, OR EGG OF ANY SUCH BIRDS. ADDITIONAL INFORMATION MAYBE FOUND IN THE US FISH & WILDLIFE SERVICE'S "LAND CLEARING TIMING GUIDANCE FOR ALASKA." FOR THIS PROJECT.
- REFER TO APPENDIX A FOR PROJECT SPECIFIC PERMITS AND ENVIRONMENTAL COMMITMENTS.

PROJECT SITE SPECIFIC CONDITIONS:

- SITE FUNCTION: HIGHWAY
- MEAN ANNUAL PRECIPITATION: 10.76 INCHES (SOURCE: WESTERN REGIONAL CLIMATE CENTER WEBSITE FOR NENANA)
- 2-YEAR 24-HOUR PRECIPITATION: 1.19 INCHES (SOURCE: [HTTPS://HDSC.NWS.NOAA.GOV/HDSC/PFDS/PFDS_MAP_AK.HTML](https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_ak.html))
- LANDSCAPE TOPOGRAPHY: MODERATE TO DENSE FOREST WITH STEEP SLOPES RANGING FROM 7 TO 45 PERCENT
- EVIDENCE OF HISTORIC CONTAMINATION: NONE WITHIN 1500 FEET

PROJECT AREA SUMMARY

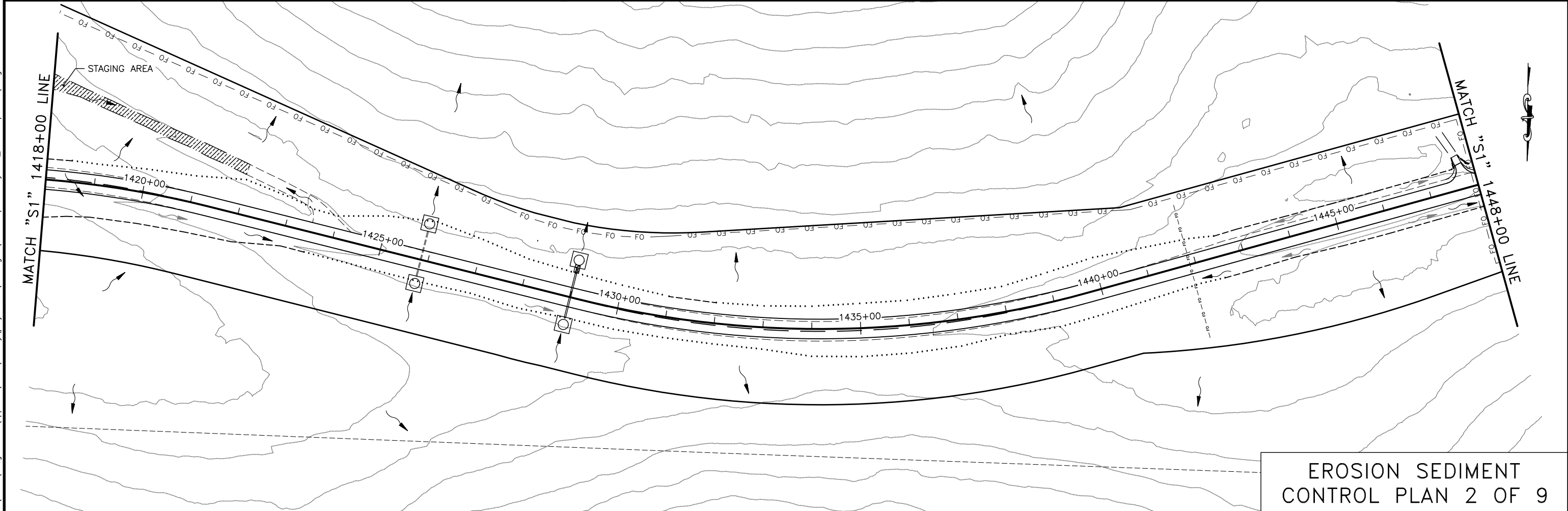
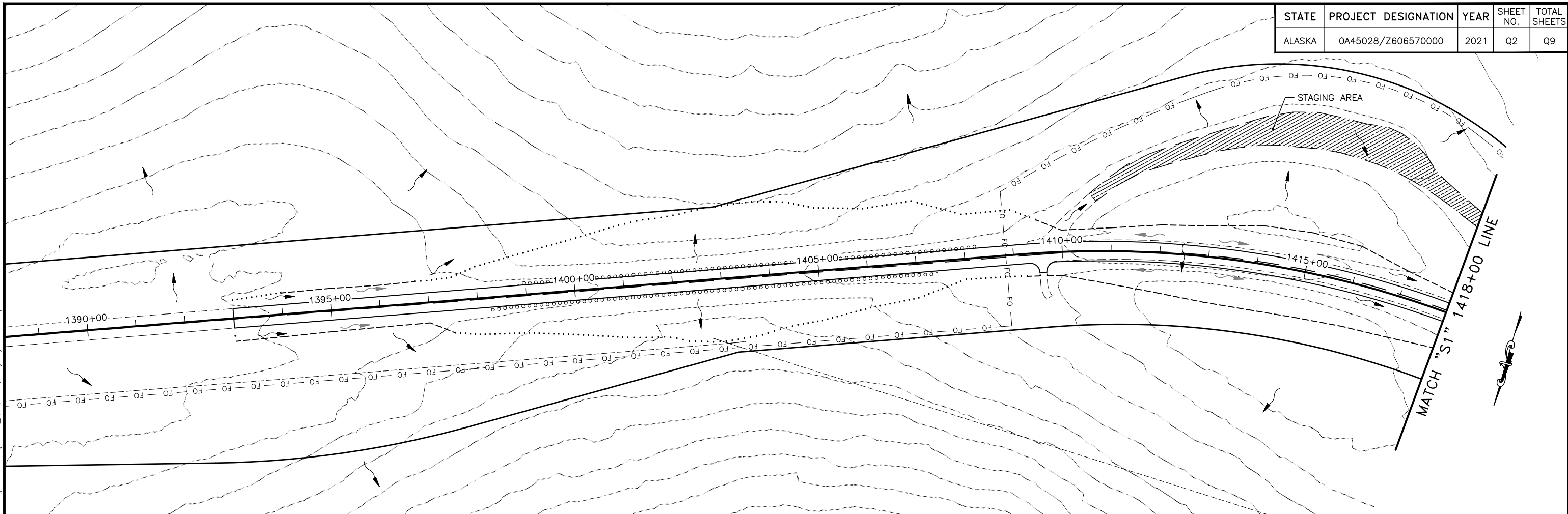
PROJECT AREA	DISTURBED AREA	PRE-CONSTRUCTION IMPERVIOUS AREA	POST-CONSTRUCTION IMPERVIOUS AREA	PRE-CONSTRUCTION RUNOFF COEFFICIENT	POST-CONSTRUCTION RUNOFF COEFFICIENT
366 ACRES	174 ACRES	7.2 %	10.1 %	0.64	0.64

LEGEND

PERIMETER PROTECTION	— P — P — P — P — P —	10' CONTOURS	-----
CULVERT INLET/OUTLET PROTECTION	⊙	2' CONTOURS	-----
DRAINAGE DIRECTION (EXISTING CONDITIONS)	←	DRAINAGE DIRECTION (PROPOSED DITCHES)	←

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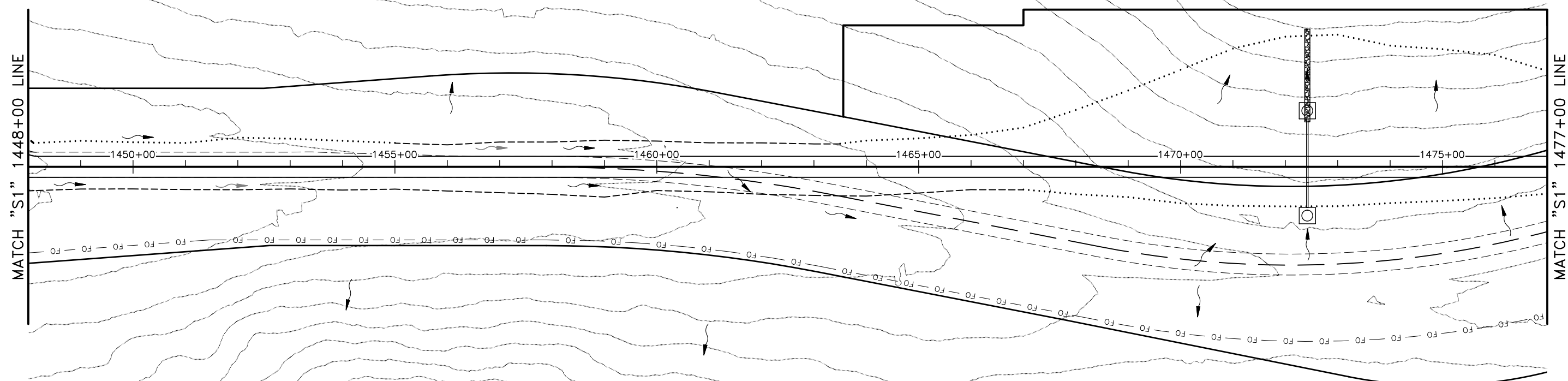
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q2	Q9



EROSION SEDIMENT CONTROL PLAN 2 OF 9

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q3	Q9

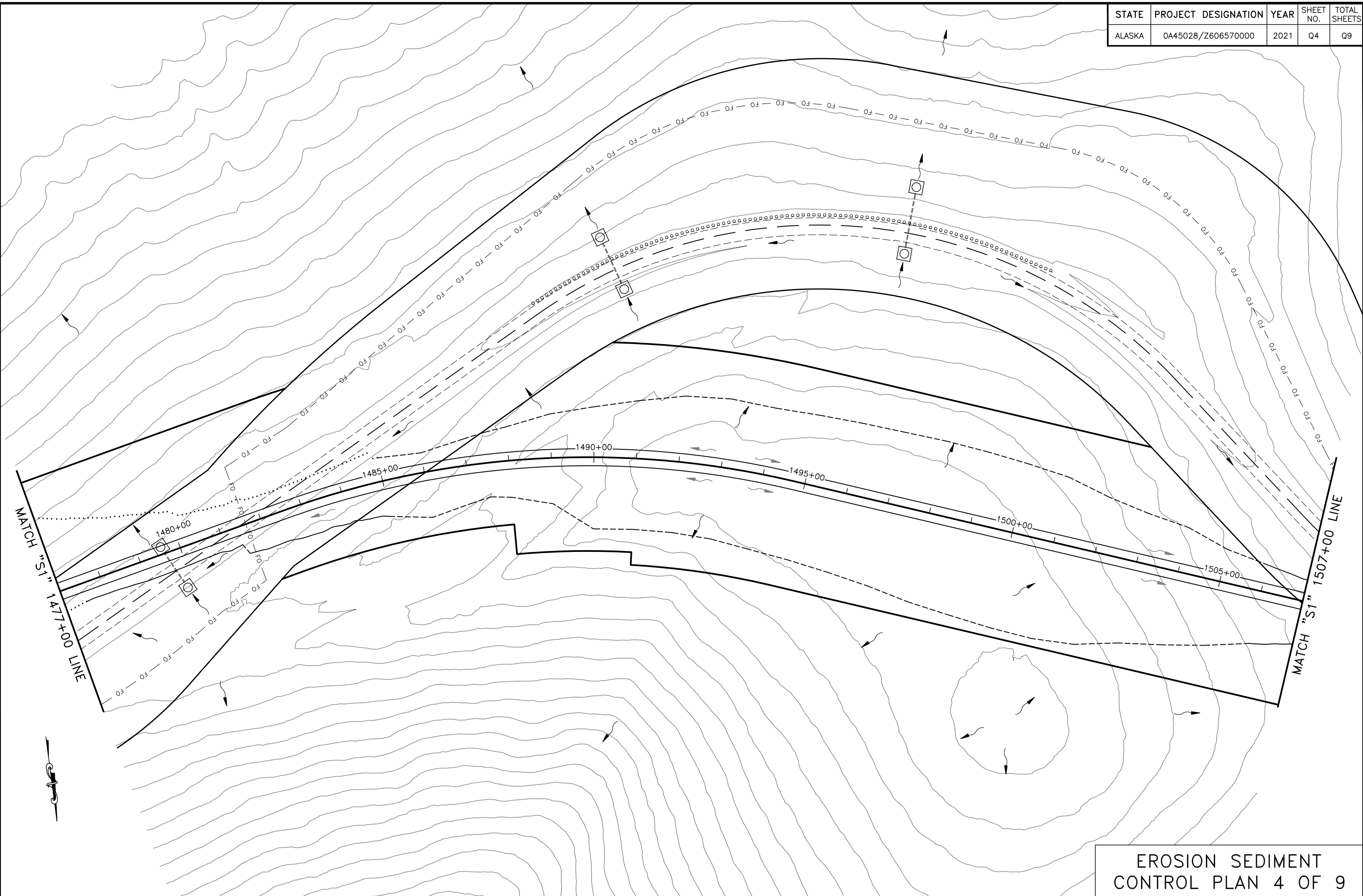


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EROSION SEDIMENT
 CONTROL PLAN 3 OF 9

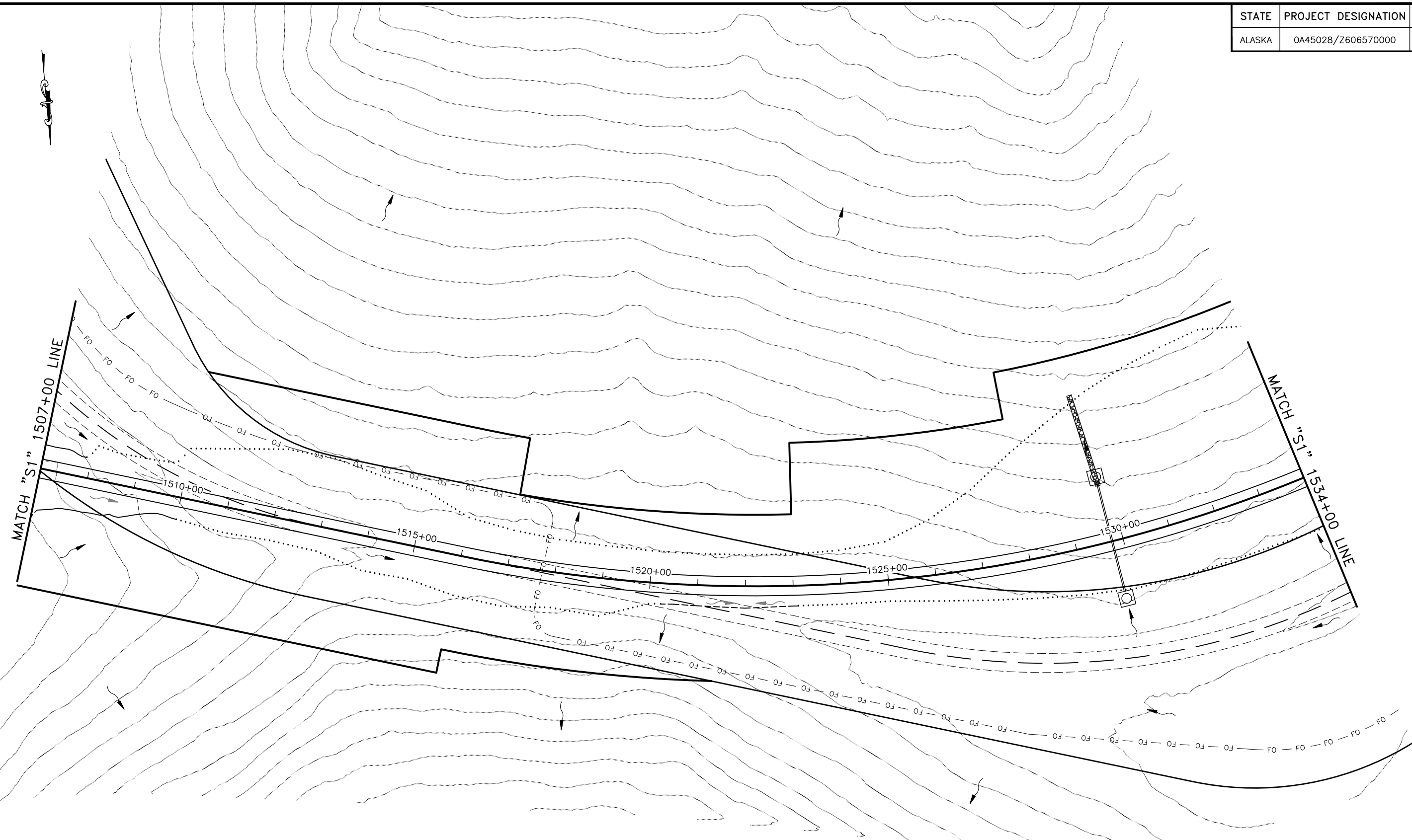
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q4	Q9

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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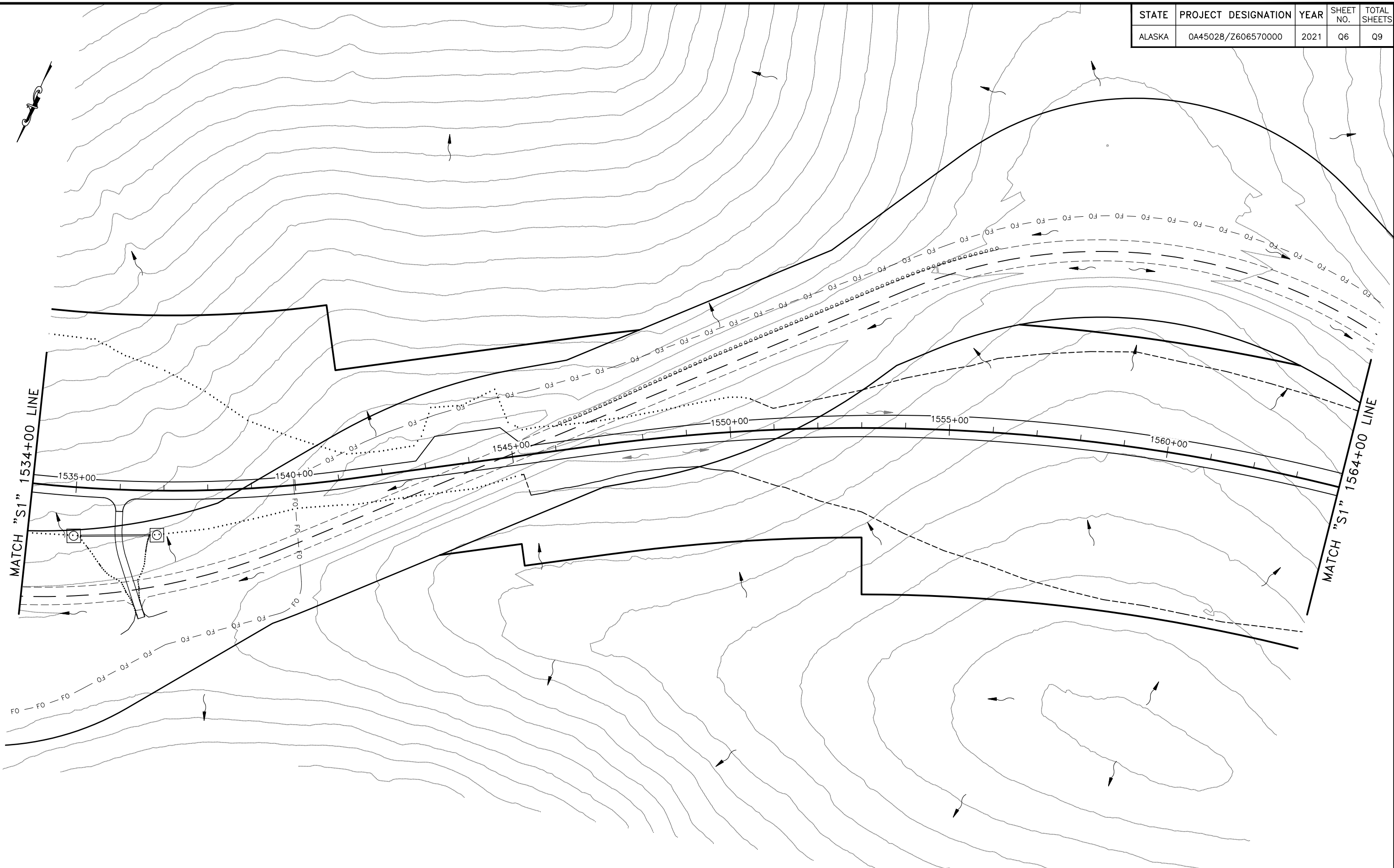
EROSION SEDIMENT CONTROL PLAN 4 OF 9

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q5	Q9



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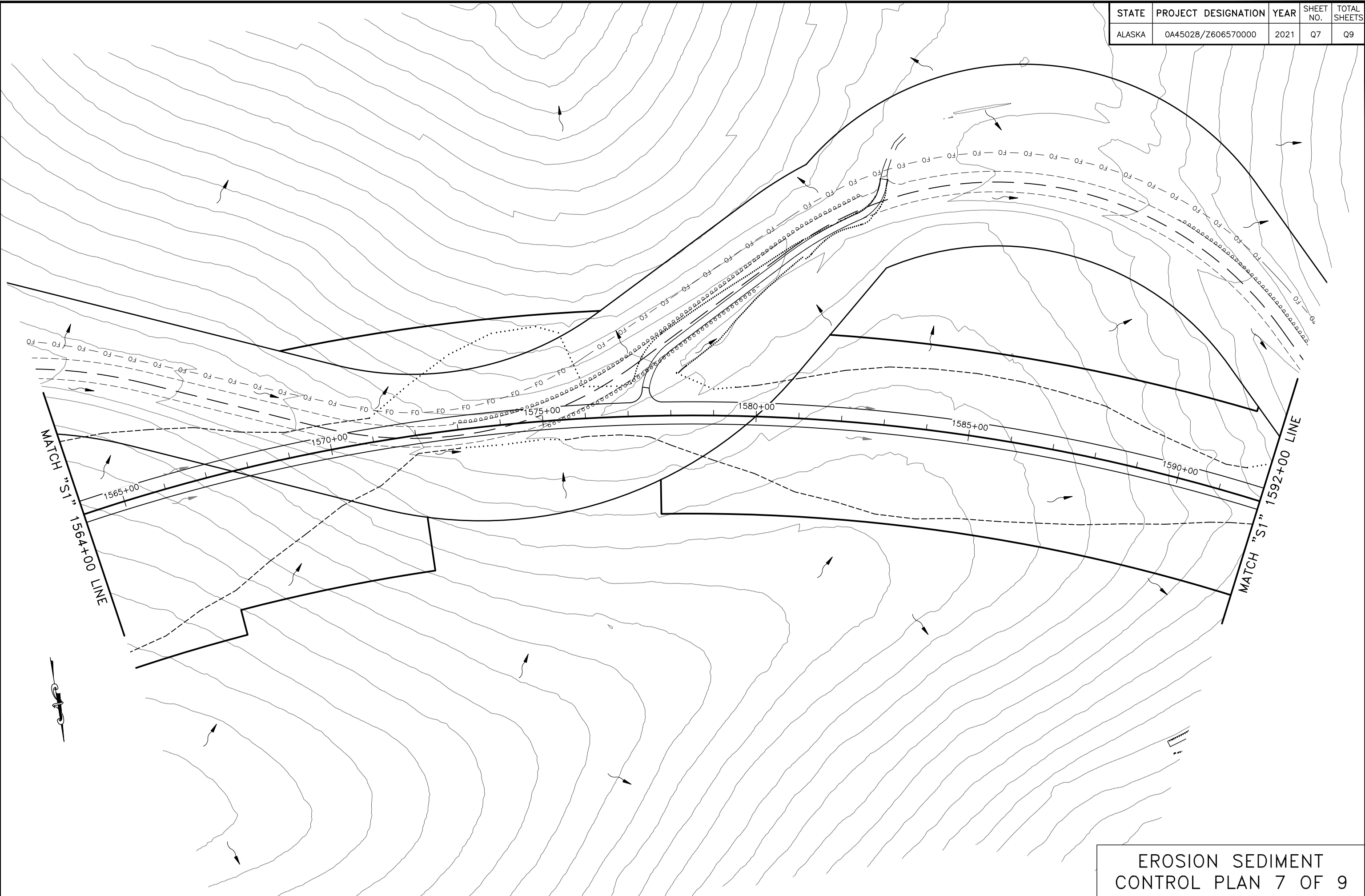
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q6	Q9



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EROSION SEDIMENT CONTROL PLAN 6 OF 9

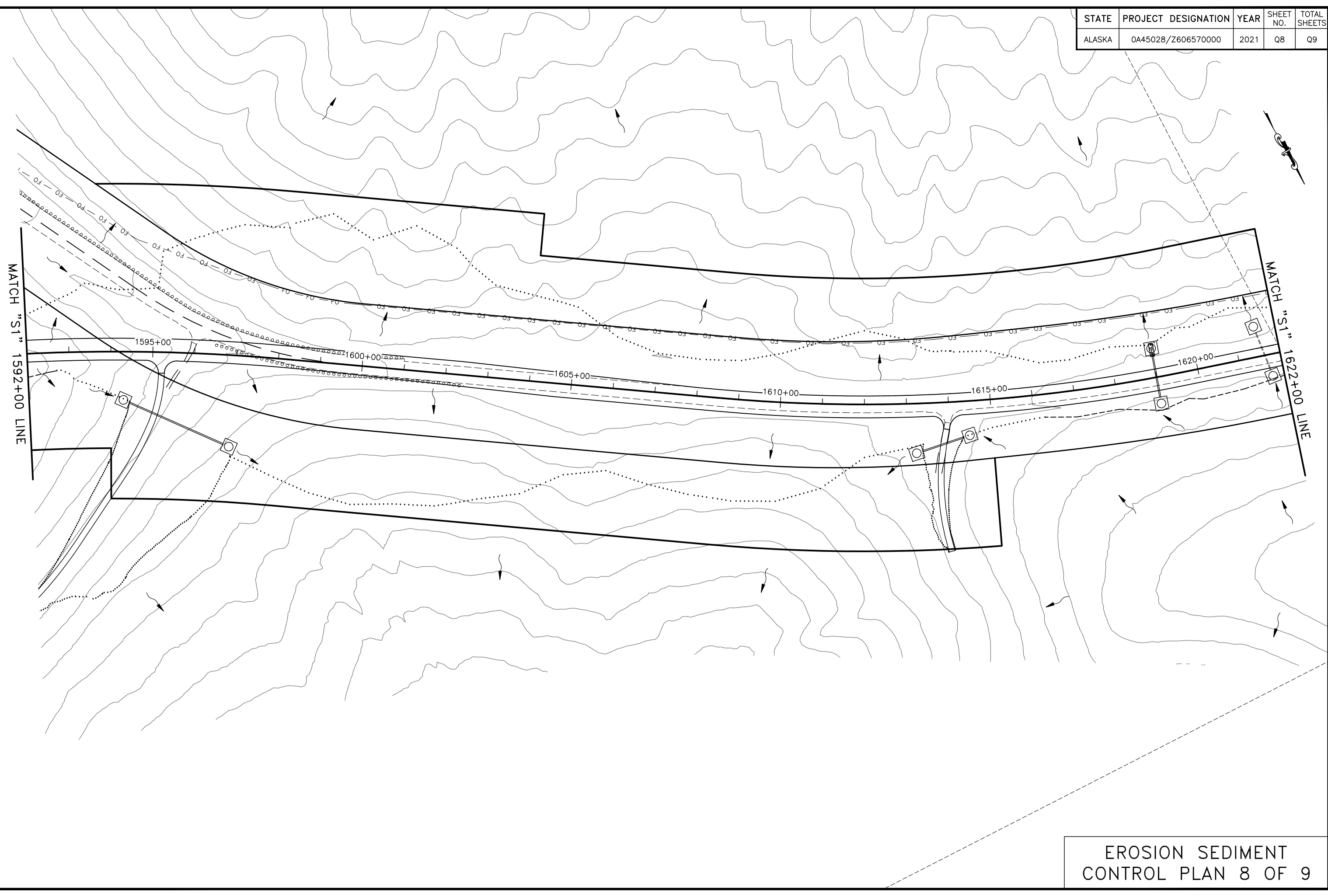
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q7	Q9



EROSION SEDIMENT CONTROL PLAN 7 OF 9

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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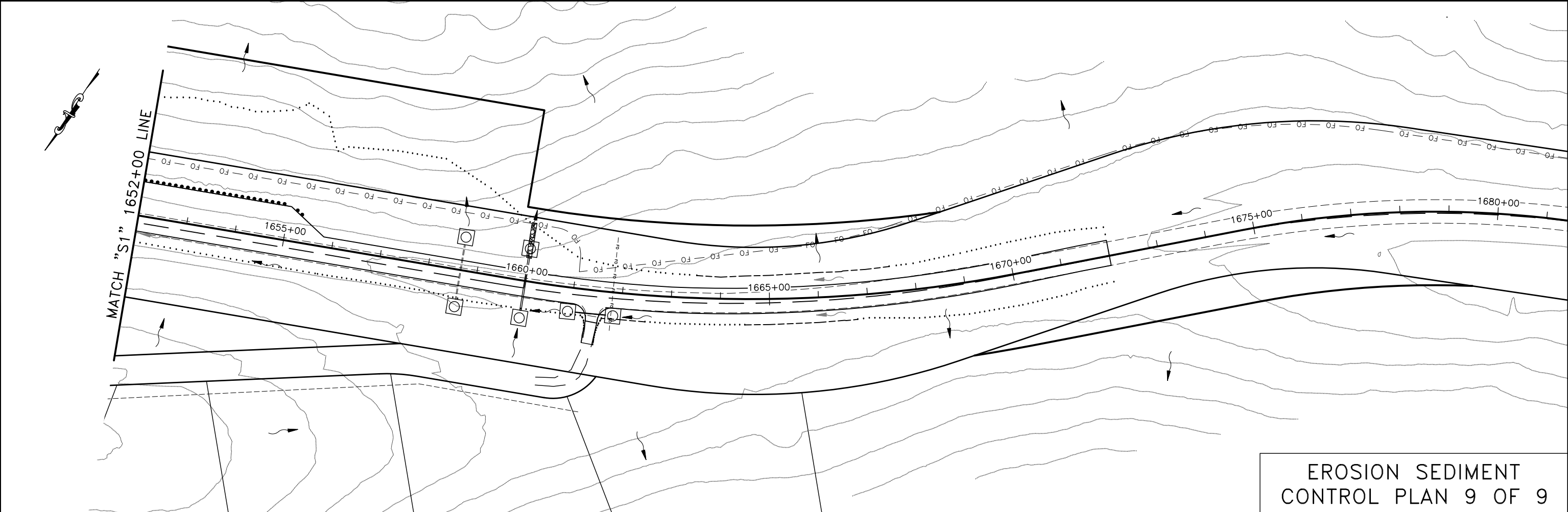
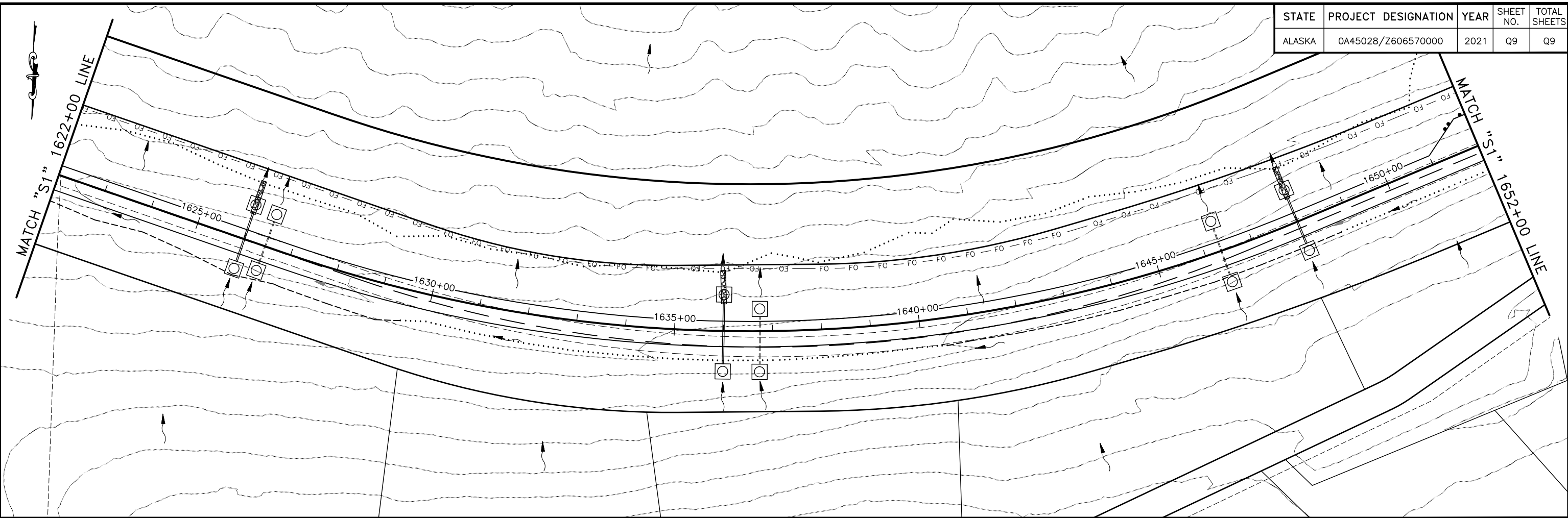
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q8	Q9



PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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EROSION SEDIMENT
 CONTROL PLAN 8 OF 9

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A45028/Z606570000	2021	Q9	Q9



EROSION SEDIMENT
CONTROL PLAN 9 OF 9

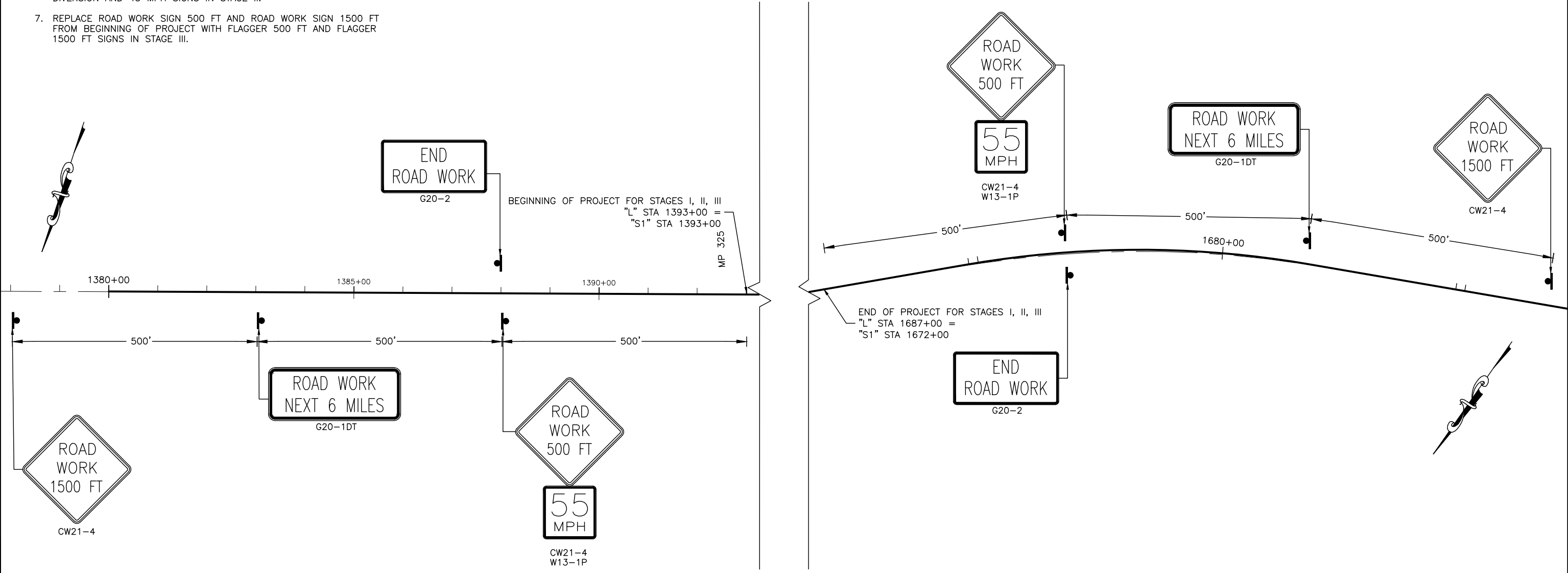
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A45028/Z606570000	2021	T1	T9

NOTES:

1. THIS TRAFFIC CONTROL PLAN IS A SCHEMATIC AND MAY VARY DEPENDING ON ACTUAL FIELD CONDITIONS. MODIFY AND ADJUST DISTANCES SHOWN ACCORDING TO SITE CONDITIONS.
2. MOUNT CONSTRUCTION SIGNS AT 7' HEIGHT ON 4" X 4" WOOD POSTS IN ACCORDANCE WITH STANDARD DRAWINGS S-05.02 AND S-30.05 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. MAINTAIN A MINIMUM OF 11' LANES IN EACH DIRECTION OPEN TO THE PUBLIC. EXCEPT WHEN PILOT CAR AND FLAGGER ARE PROVIDED FOR STAGE III. PROVIDE ACCESS TO EMERGENCY VEHICLES THROUGH THE PROJECT AT ALL TIMES. PROVIDE ACCESS FOR PERMITTED OVERSIZE VEHICLES. SEE SECTION 643.
4. ALL DEVICES AND BARRIERS SHOWN ARE SUBSIDIARY TO PAY ITEM 643.0002.0000, TRAFFIC MAINTENANCE. SIGNS SHOWN ARE SUBSIDIARY TO PAY ITEM 643.0004.0000 PERMANENT CONSTRUCTION SIGNS.
5. REPLACE ROAD WORK SIGN 500 FT FROM BEGINNING/END OF PROJECT WITH SHOULDER WORK SIGN IN STAGE I.
6. REPLACE ROAD WORK SIGN 500 FT FROM END OF PROJECT WITH DIVERSION AND 45 MPH SIGNS IN STAGE II.
7. REPLACE ROAD WORK SIGN 500 FT AND ROAD WORK SIGN 1500 FT FROM BEGINNING OF PROJECT WITH FLAGGER 500 FT AND FLAGGER 1500 FT SIGNS IN STAGE III.

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LEGEND:

	F-SHAPE BARRIER OR GUARDRAIL
	TYPE III BARRICADE
	CONSTRUCTION SIGN
	FLAGGER

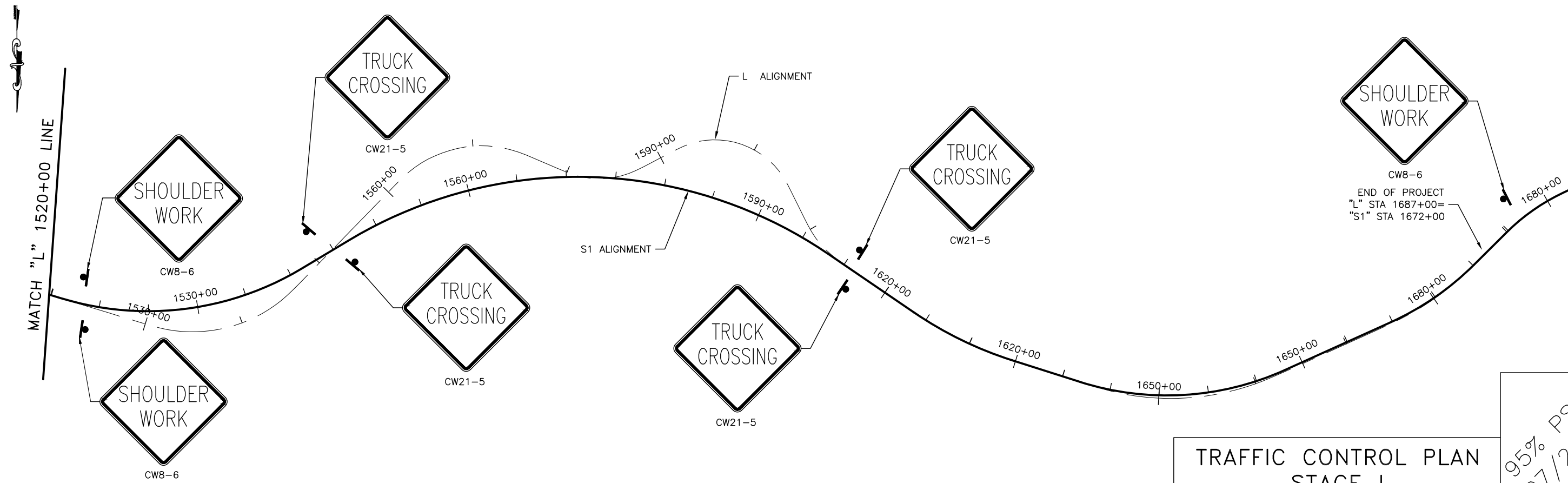
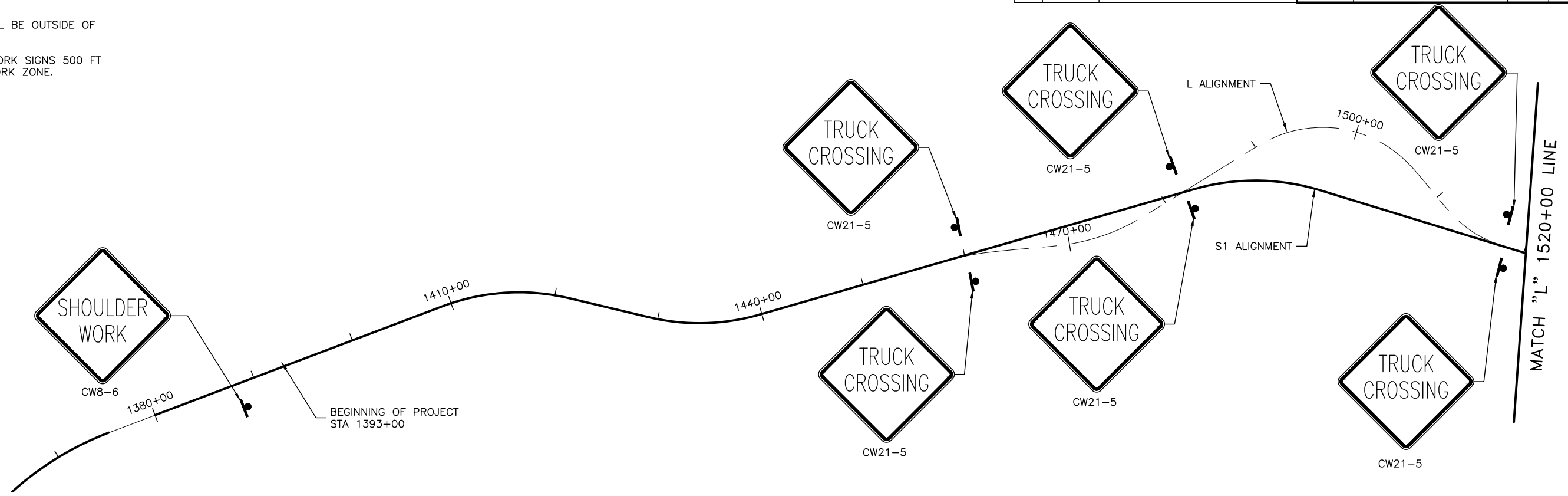
TRAFFIC CONTROL PLAN

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A45028/Z606570000	2021	T2	T9

NOTES:

1. CONSTRUCTION SHALL BE OUTSIDE OF EXISTING PAVEMENT.
2. PLACE SHOULDER WORK SIGNS 500 FT PRIOR TO ACTIVE WORK ZONE.



TRAFFIC CONTROL PLAN
STAGE I

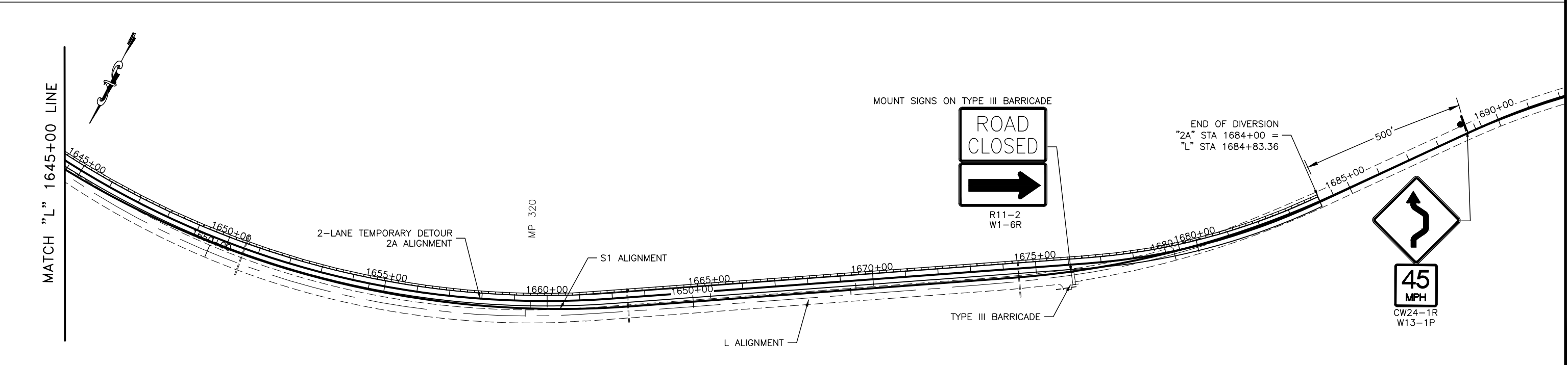
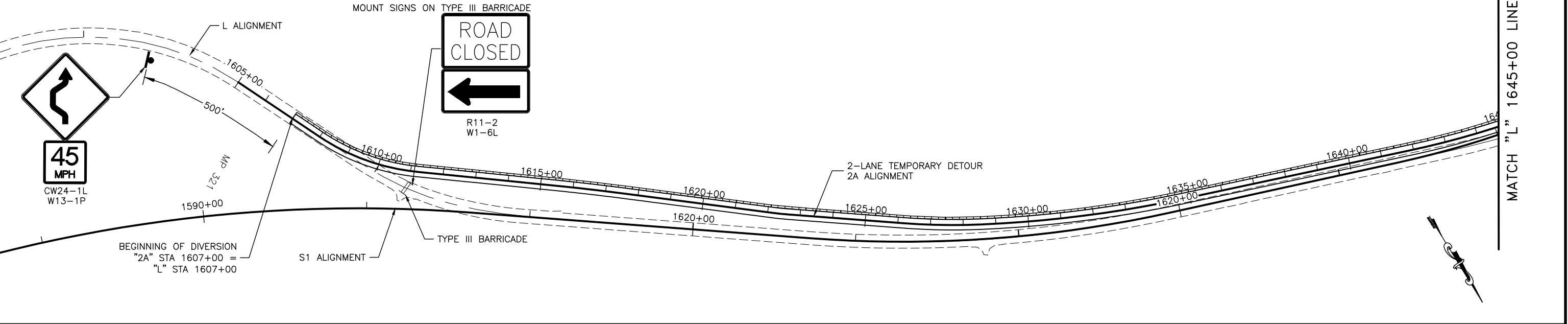
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07/2021

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NOTES:

1. TERMINATE PRECAST CONCRETE BARRIER WITH NCHRP TL-3 CRASH CUSHIONS.
2. MAINTAIN A MINIMUM OF 11' LANES IN EACH DIRECTION OPEN TO THE PUBLIC. PROVIDE ACCESS TO EMERGENCY VEHICLES THROUGH THE PROJECT AT ALL TIMES. PROVIDE ACCESS FOR PERMITTED OVERSIZE VEHICLES. SEE SECTION 643.
3. ALL DEVICES AND BARRIERS SHOWN ARE SUBSIDIARY TO PAY ITEM 643.0002.0000, TRAFFIC MAINTENANCE. SIGNS SHOWN ARE SUBSIDIARY TO PAY ITEM 643.0003.0000 PERMANENT CONSTRUCTION SIGNS.
4. PROVIDE TEMPORARY STRIPING AND BARRIERS OR GUARDRAIL FOR TEMPORARY CROSSING AS SHOWN. STRIPING AND BARRIERS OR GUARDRAIL IS SUBSIDIARY TO PAY ITEM 520.0001.0000.
5. SEE SHEETS T5 THROUGH T7 FOR DIVERSION PLAN AND PROFILE.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A45028/Z606570000	2021	T3	T9



TRAFFIC CONTROL PLAN
STAGE II

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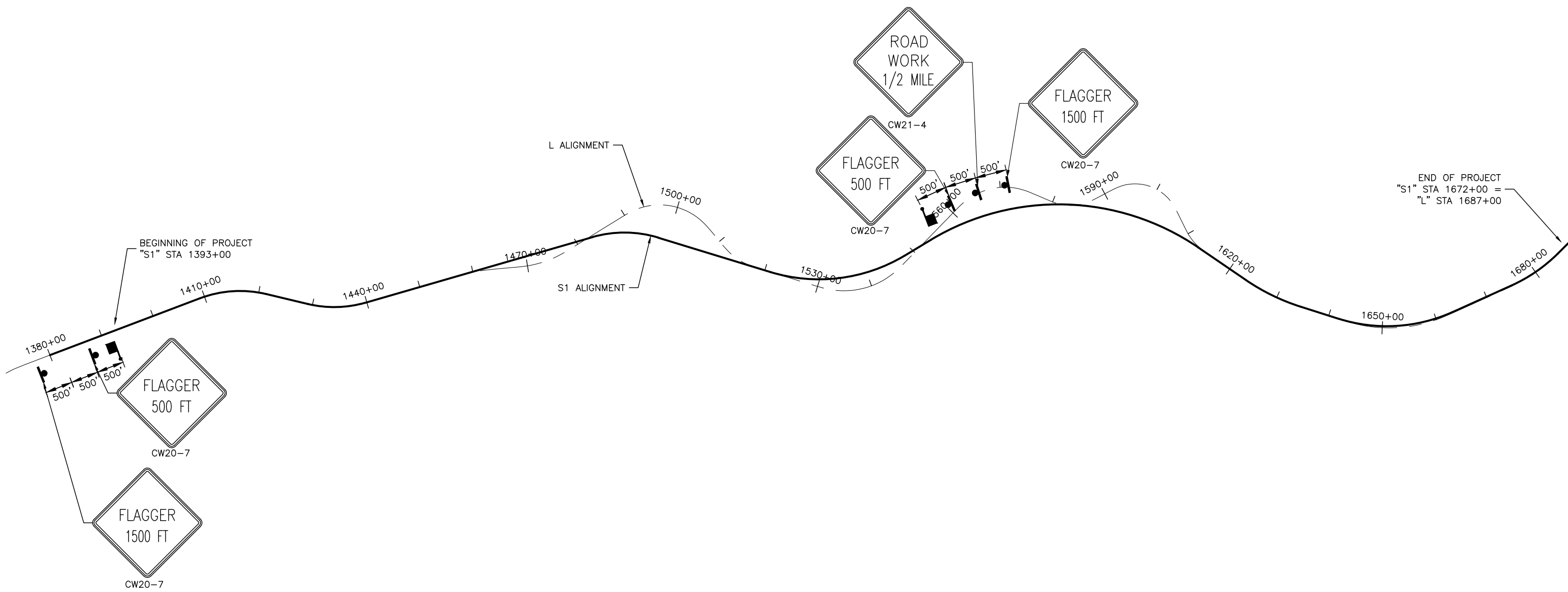
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NOTES:

1. PROVIDE PILOT CAR FROM S1 STA 1393+00 TO 1547+00 WITH PILOT CAR FOLLOW ME SIGN POST (G20-4) ON TRUCK.
2. LOCATE FLAGGER 100 FT OUTSIDE S1 STA 1393+00 TO 1547+00.
3. FROM S1 STA 1574+00 TO EOP MAINTAIN 11 FT LANES.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A45028/Z606570000	2021	T4	T9

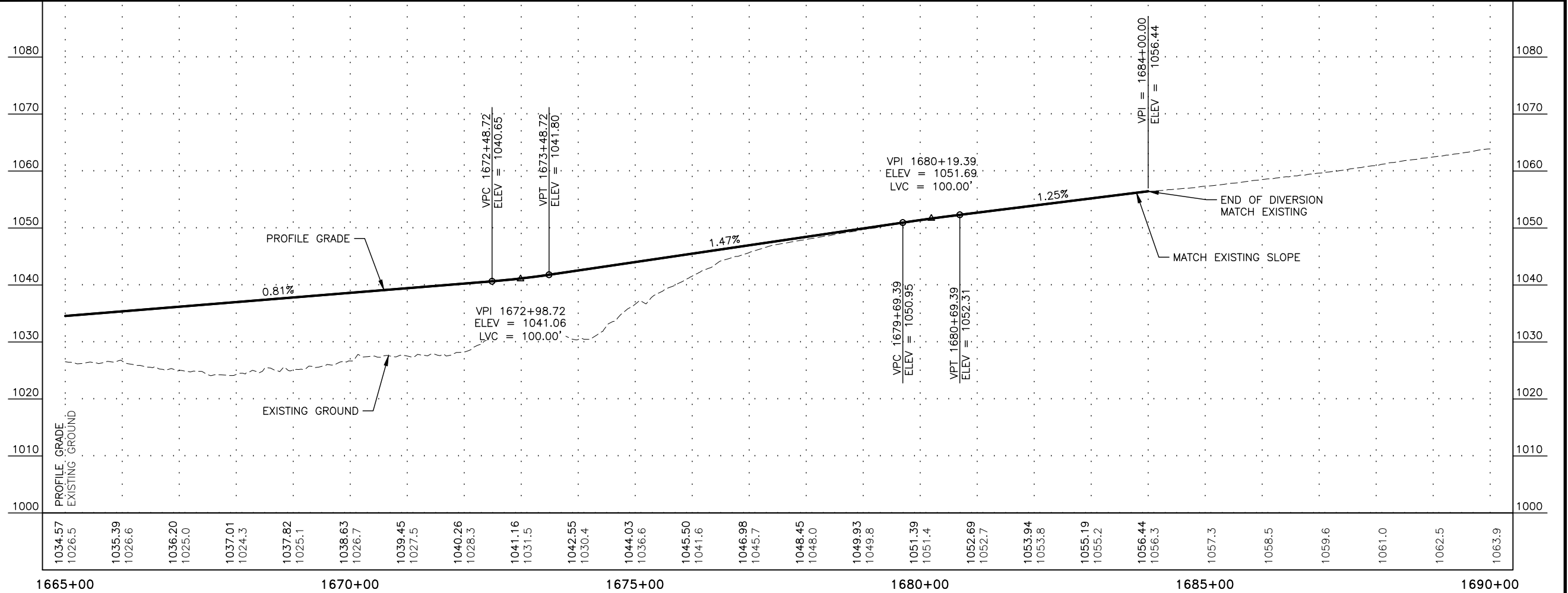
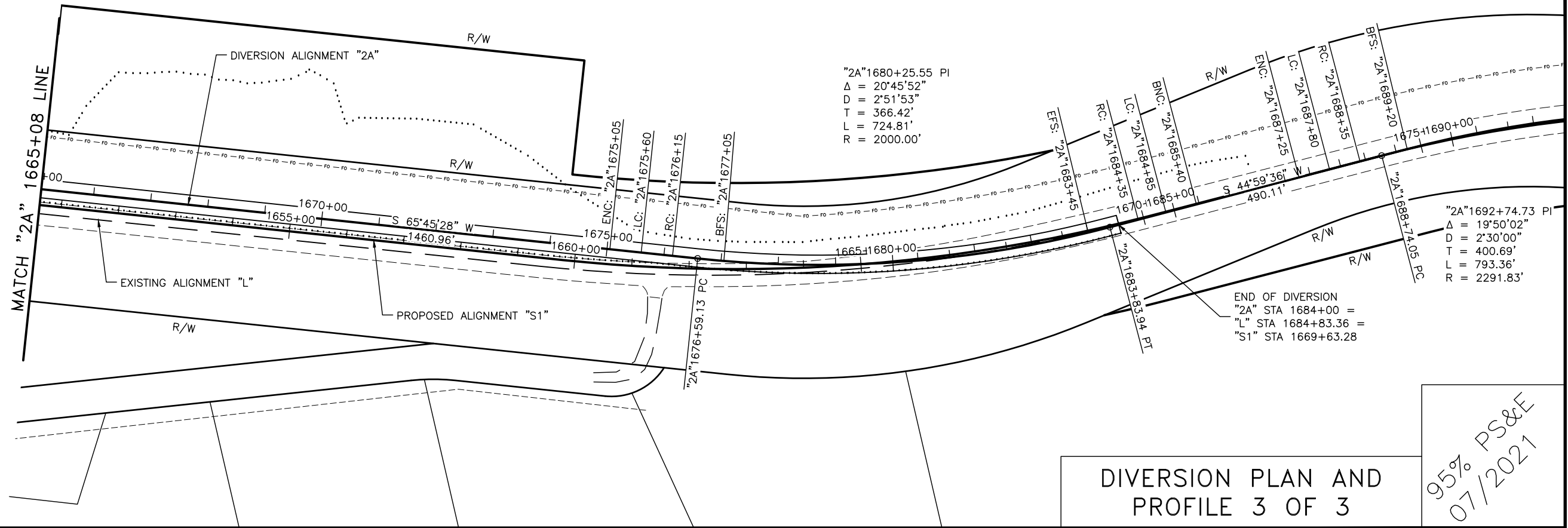
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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TRAFFIC CONTROL PLAN
 STAGE III

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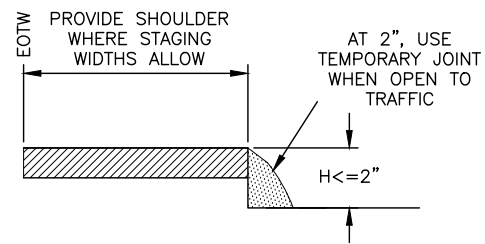
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A45028/Z606570000	2021	T7	T9



PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A45028/Z606570000	2021	T9	T9

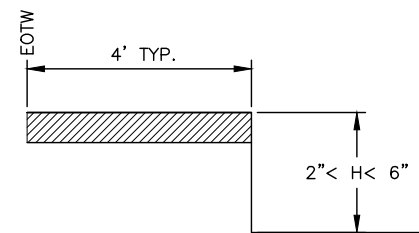
VERTICAL DROP-OFFS



CASE A

DROP-OFFS ≤ 2 INCHES
(PAVED SURFACES ONLY)

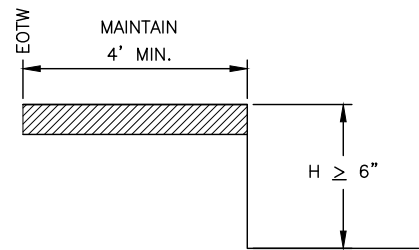
1. USE "UNEVEN LANES" (CW8-11) SIGNS FOR ALL DROP-OFFS IN BETWEEN TRAFFIC LANES.
2. LEAVE NO DROP-OFFS > 1.5 " IN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK.



CASE B

$2" < \text{DROP-OFFS} < 6"$
(ALL ROADWAY SURFACES)

1. PLACE CONES OR CANDLES FOR DROP-OFFS ≥ 4 FEET AND ≤ 30 FEET FROM THE EOTW.
2. USE DRUMS OR TYPE II BARRICADES FOR DROP-OFFS < 4 FEET FROM THE EOTW.



CASE C

DROP-OFFS $\geq 6"$
(ALL ROADWAY SURFACES
AND ROADSIDE SLOPES)

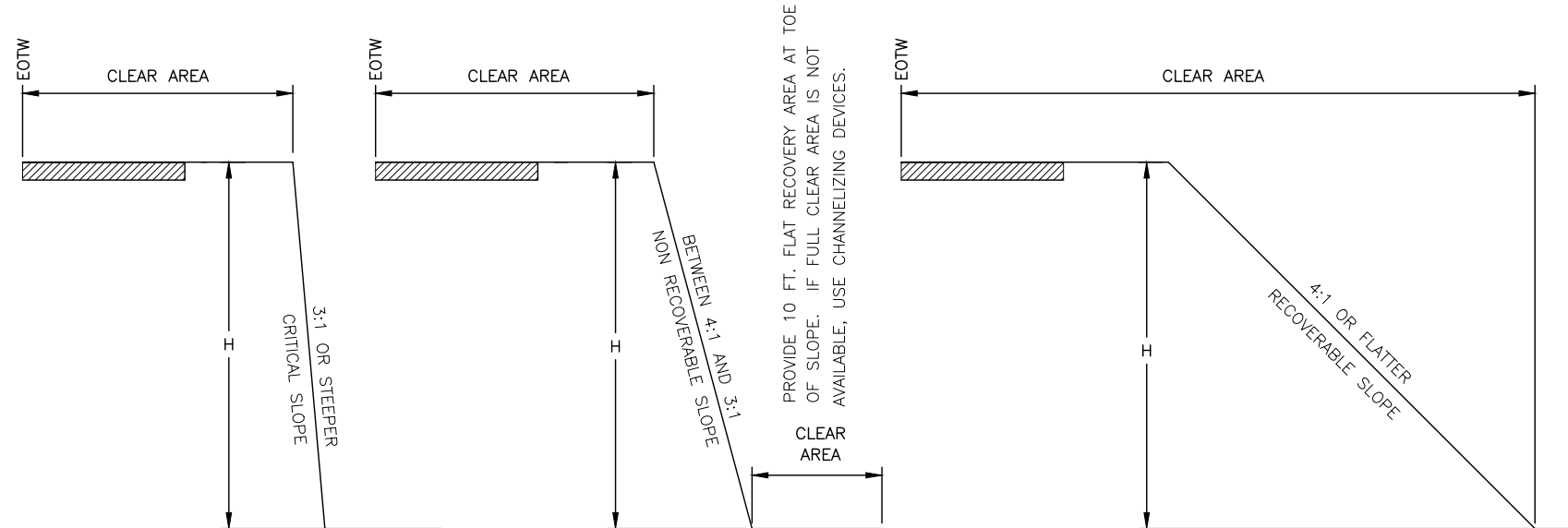
1. PLACE DRUMS OR TYPE II BARRICADES FOR DROP-OFFS ≤ 24 " WITHIN THE CLEAR AREA.
2. PROVIDE PORTABLE CONCRETE BARRIER FOR DROP-OFFS > 24 " WITHIN 15 FEET OF THE EOTW. USE DRUMS OR TYPE II BARRICADES IF BEYOND 15 FEET.

FILL SLOPES

STEEPER THAN OR EQUAL TO 3:1

BETWEEN 4:1 AND 3:1

FLATTER THAN OR EQUAL TO 4:1



CLEAR AREA REQUIREMENTS			
	LOW SPEED ≤ 35 MPH	INTERMEDIATE SPEED 40 MPH TO 45 MPH	HIGH SPEED ≥ 50 MPH
RURAL	15'	24'	30'
URBAN	10' DITCH SECTIONS, OR 2' BEHIND CURB	15' DITCH CONDITIONS, OR 2' BEHIND CURB	15' DITCH CONDITIONS, OR 2' BEHIND CURB

CHANNELIZING DEVICE REQUIREMENTS FOR SLOPES 3:1 OR STEEPER WITHIN THE CLEAR AREA		
	$H \leq 15'$	$H > 15'$
< 2000 VPD LOW VOLUME	CANDLES OR CONES	TYPE II BARRICADES OR DRUMS
> 2000 VPD	TYPE II BARRICADE OR DRUMS	PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL

TRAFFIC CONTROL NOTES:

1. USE THE EXISTING CROSS-SECTION (PRIOR TO CONSTRUCTION) AS A BASIS FOR DETERMINING WHEN CHANNELIZING DEVICES ARE NEEDED.
2. INSTALL CHANNELIZING DEVICES WHEN THE HORIZONTAL OR VERTICAL CURVATURE IS MADE MORE SEVERE.
3. INSTALL FLEXIBLE DELINEATORS WHEN ALL VEGETATION OVER 4 FEET HIGH IS CLEARED FROM FILL SLOPES THAT ARE 3:1 OR STEEPER IN THE CLEAR AREA.
4. USE PORTABLE CONCRETE BARRIER FOR WARRANTING CONDITIONS WHICH LAST LONGER THAN 3 DAYS. FOR CONDITIONS LASTING LESS THAN 3 DAYS, OTHER CHANNELIZING DEVICES MAY BE INSTALLED.
5. TERMINATE RUNS OF PORTABLE CONCRETE BARRIER USING THE FOLLOWING METHODS:
 - A) CONNECT TO A PORTABLE CRASH CUSHION, OR
 - B) PROVIDE A CONCRETE BARRIER WITH THREE BEAM TRANSITION TO W-BEAM GUARDRAIL, TREATED WITH A PARALLEL TERMINAL (SEE SECTION 710).
 - C) FLARE THE ENDS OF THE PORTABLE CONCRETE BARRIER AWAY FROM THE ROADWAY AT A RATE OF 7:1 ON A COMPACTED SLOPE OF 6:1 OR FLATTER, OUTSIDE OF THE CLEAR AREA. INSTALL A SLOPING PORTABLE CONCRETE BARRIER END TREATMENT, OR
 - D) BURY IN THE BACKSLOPE.

6. TERMINATE THE RUNS OF TEMPORARY W-BEAM GUARDRAIL USING THE FOLLOWING METHODS:
 - A) PROVIDE A PARALLEL TERMINAL (SEE SECTION 710)
 - B) FLARE THE ENDS OF THE TEMPORARY GUARDRAIL AWAY FROM THE ROADWAY AT A RATE OF 6:1 ON A COMPACTED SLOPE OF 6:1 OR FLATTER OUTSIDE OF THE CLEAR AREA, TERMINATE WITH A STANDARD W-BEAM END SECTION, OR
 - C) BURY IN THE BACKSLOPE.

EQUIPMENT NOTES:

1. WHEN THERE IS ACTIVE, NONMOBILE CONSTRUCTION EQUIPMENT WITHIN THE CLEAR AREA, DELINEATE THE ROADSIDE WITH TRAFFIC CONES.
2. SEPARATE PROCEDURES ARE REQUIRED FOR MOBILE WORK ZONE OPERATIONS AND SHORT DURATION WORK OF LESS THAN 12 HOURS.

WINTER SHUTDOWN NOTES:

1. WHEN REQUIRED, USE CHANNELIZING DEVICES WHICH CAN BE MAINTAINED OVER WINTER.
2. NO CHANNELIZING DEVICES ARE REQUIRED IF:
 - A) CONSTRUCTION SLOPES ARE RECOVERABLE, AND
 - B) SLOPES ARE SMOOTH AND COMPACTED, AND
 - C) REQUIRED CLEAR AREA IS PROVIDED

TRAFFIC CONTROL PLAN
DETAILS

95% PS&E
07/2021