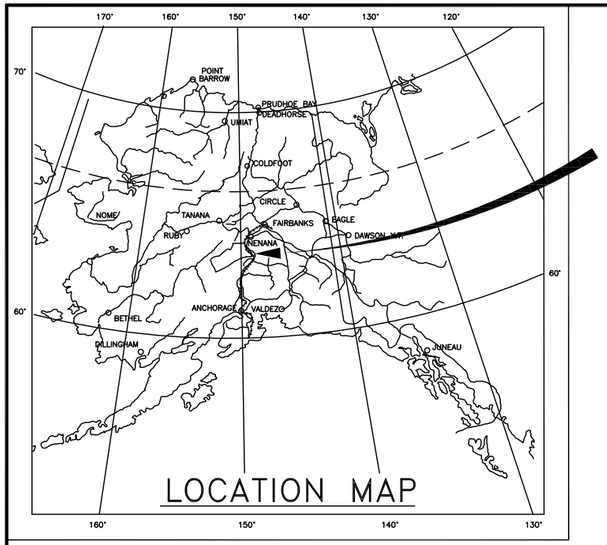
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44020/Z612990000	2016	1	11
CDS ROUTE: 170000	MILEPOINT: 193.809 TO 196.555			



PROJECT LOCATION

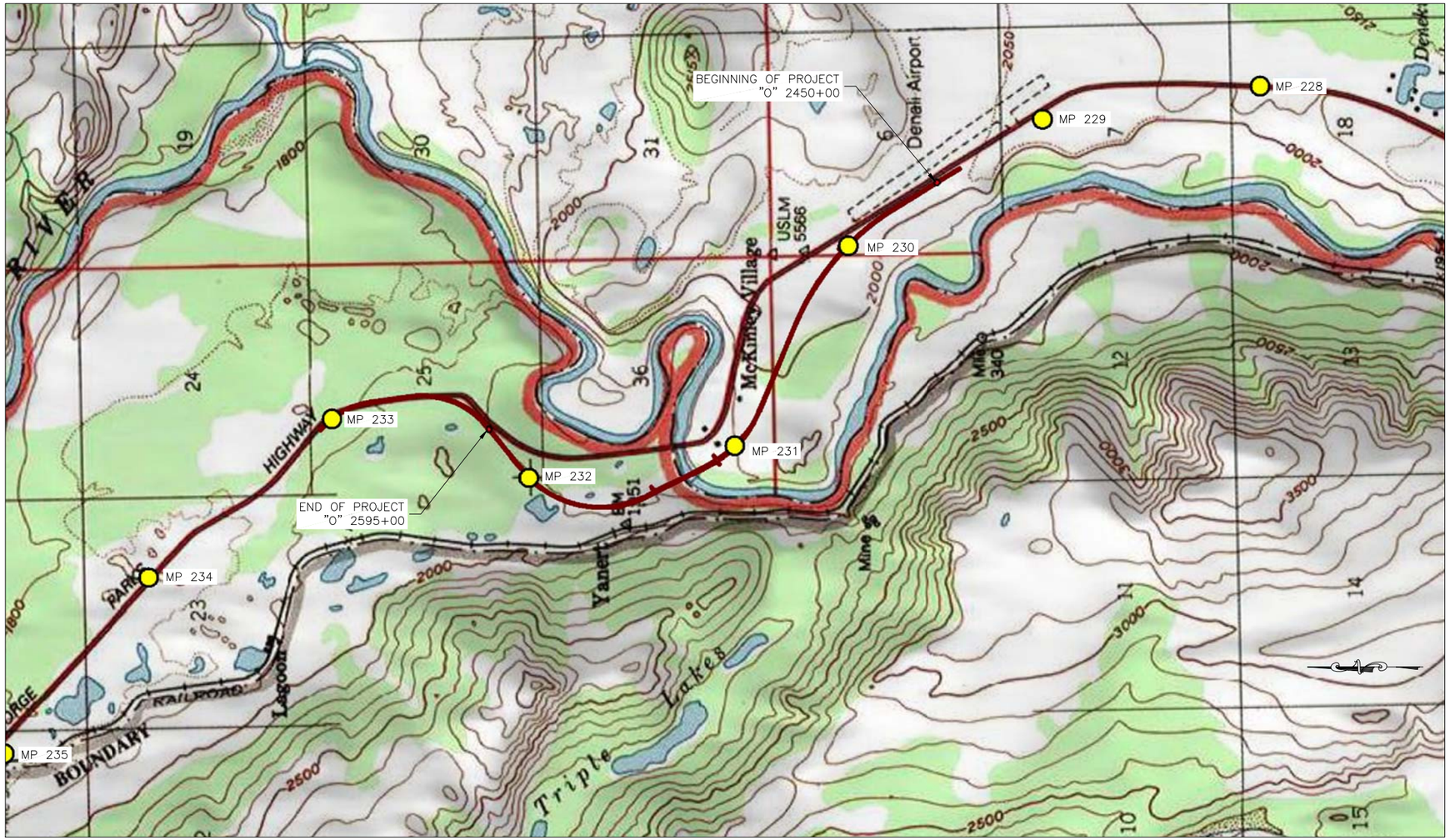
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

0A44020/Z612990000

PARKS HIGHWAY MP 231 ENHANCEMENTS

GRADING, DRAINAGE, PAVING, BRIDGE



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND
3	ESTIMATE OF QUANTITIES & GENERAL NOTES
4–9	PLAN & PROFILE
10–11	TYPICAL SECTIONS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
C–04.12,
D–01.02, D–04.21, D–06.10, D–09.00,
G–00.02, G–04.10S, G–10.01, G–13.00, G–30.00, G–46.11
I–81.00,
L–26.00,
M–13.01,
S–00.11, S–01.00, S–05.01, S–20.10, S–30.03

DESIGN DESIGNATIONS

ADT (2014)	2,450 VPD
ADT (2030)	2,990 VPD
DHV	16.8%
PERCENT TRUCKS (T)	20.0%
DIRECTIONAL SPLIT (D)	40/60
DESIGN SPEED (V)	70 MPH
DESIGN EAL'S (20 YEARS)	2,106,250

PROJECT SUMMARY

WIDTH OF PAVEMENT	40–64–FT
LENGTH OF GRADING	2.75 MILES
LENGTH OF PAVING	2.75 MILES
LENGTH OF PROJECT	2.75 MILES
LENGTH OF BRIDGE	420–FT

PLANS DEVELOPED BY:
David D. Jensen

UNDER THE SUPERVISION OF:

STATE OF ALASKA
49TH
Lauren M. Little
C.E. 12967
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY:

_____ DATE _____

Ryan F. Anderson, P.E.
Preconstruction Engineer, Northern Region

ACCEPTED FOR CONSTRUCTION

_____ DATE _____

Ryan F. Anderson, P.E.
Acting Regional Director, Northern Region

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44020/Z612990000	2016	2	11

	RECOVERED	SET
BLM MONUMENT		
GLO MONUMENT		
USC&GS MONUMENT		
PRIMARY MONUMENT		
CENTERLINE MONUMENT IN CASING		
PRIMARY R.O.W. MONUMENT		
BEARING OBJECT		
MISCELLANEOUS MONUMENT		
LINE OF SIGHT MONUMENT		
CONCRETE R.O.W. MONUMENT		
BENCHMARK		BM
REBAR AND CAP		
REBAR		
IRON PIPE		
PK NAIL		
SPIKE		
HUB AND TACK		

CONSTRUCTION CENTERLINE — 5+00

MISCELLANEOUS CENTERLINE — 10+00

STATION EQUATION — "L"48+97.23 POT BK= / "O"48+97.23 PC AHD

PROJECT RIGHT-OF-WAY LINE — R/W

EXISTING RIGHT-OF-WAY LINE

EXISTING PROPERTY LINE

CONTROLLED ACCESS LINE — C/A

EXISTING EASEMENT LINE

PROPOSED EASEMENT LINE

PROPOSED CUT SLOPE LIMIT

PROPOSED FILL SLOPE LIMIT

SECTION LINE

1/4 SECTION LINE

1/16 SECTION LINE

TOWNSHIP & RANGE LINE — T. 2 N. / T. 1 N. ; T. 1 E. ; T. 2 E.

MEANDER LINE — M1 M2 M3

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)	SS	SS
FUEL LINE	O	O
GAS LINE	G	G
WATER LINE	W	W
METER, VALVE, FIRE HYDRANT	W	W
EXISTING STORM DRAIN (FLOW DIRECTION →)	SD	
PROPOSED STORM DRAIN		S-10, S-11, P-11, SD, MH, P-10
FIBER OPTIC LINE	FO	
DIRECT BURIAL TELEPHONE CABLE	T	T
DIRECT BURIAL ELECTRIC CABLE	E	E
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT	T	T
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE	MH	MH
SANITARY SEWER CLEAN OUT		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX	MB	MB
RAILROAD TRACKS		
RAILROAD DEVICES	CROSS-BUCK, FLASHING LIGHT	CANTILEVER, SWITCH
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS	H	

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

POST OR BOLLARD	
WELL OR MONITORING WELL	W, MW
SEPTIC PIPE	S
FUEL TANK FILL PIPE/VENT	P
SATELLITE DISH	SAT. DISH
TEST HOLE	TH
CONIFER TREE	
DECIDUOUS TREE	
GRAVE	
THERMOSIPHON	
PARKING METER	
VEHICLE PLUG-IN	
DELINEATOR/GUIDE MARKER	

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		5
JUNCTION BOX, TYPE II		6
JUNCTION BOX, TYPE III		3
SIGNAL FACE, VEHICULAR	42	42
SIGNAL FACE, BACKPLATE	42	42
SIGNAL FACE, LEFT TURN, BACKPLATE	43	43
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR	33	73
VIDEO DETECTOR	2	2
RADAR DETECTOR	4	4A
OPTICOM DETECTOR	1	1
PEDESTRIAN PUSH BUTTON	1	1
SIGNAL POST W/O MAST ARM		1
SIGNAL POLE W/MAST ARM		4
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		22
RIGID METAL CONDUIT		

LEGEND

STATE OF ALASKA 49TH — Lauren M. Little C.E. 12967 REGISTERED PROFESSIONAL ENGINEER

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44020/Z612990000	2016	3	11

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	PAY UNIT	QUANTITY
201(3A)	CLEARING AND GRUBBING	ACRE	26.65
202(2)	REMOVAL OF PAVEMENT	S.Y.	64,445
202(4)	REMOVAL OF CULVERT PIPE	L.F.	711
203(3)	UNCLASSIFIED EXCAVATION (ASSUME 75% REUSABLE)	C.Y.	102,769
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	798
301(2)	AGGREGATE SUBBASE, GRADING F	TON	27,276
306(1)	ASPHALT TREATED BASE	TON	14,655
306(2)	ASPHALT CEMENT, GRADE PG 52-28	TON	659.48
401(1)	HOT MIX ASPHALT, TYPE II; CLASS "B"	TON	14,655
401(2)	ASPHALT CEMENT, GRADE PG 52-40	TON	806.03
602(2)	STRUCTURAL PLATE PIPE ARCH, 14'-6" SPAN	L.F.	170
603(1-18)	18 INCH CSP	L.F.	150
603(1-24)	24 INCH CSP	L.F.	150
603(1-36)	36 INCH CSP	L.F.	450
606(1)	W-BEAM GUARDRAIL	L.F.	4,055
606(6)	REMOVAL AND DISPOSAL OF GUARDRAIL	L.F.	5,818
606(13)	PARALLEL GUARDRAIL TERMINAL	EACH	8
606(16)	TRANSITION RAIL	EACH	4
613(2)	CULVERT MARKER POST	EACH	20
615(1)	STANDARD SIGN	S.F.	200
618(2A)	SEEDING	POUND	185.3
640(1)	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQUIRED
641(1)	ESPC ADMINISTRATION	L.S.	ALL REQUIRED
641(3)	TEMPORARY ESPC	L.S.	ALL REQUIRED
641(4)	TEMPORARY ESPC ADDITIVES	C.S.	ALL REQUIRED
641(6)	SWPPP MANAGER	L.S.	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	L.S.	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	L.S.	ALL REQUIRED
643(23)	TRAFFIC PRICE ADJUSTMENT	C.S.	ALL REQUIRED
644(1)	FIELD OFFICE	L.S.	ALL REQUIRED
644(2)	FIELD LABORATORY	L.S.	ALL REQUIRED
644(3)	CURING SHED	L.S.	ALL REQUIRED
644(6)	VEHICLES	L.S.	ALL REQUIRED
644(15)	NUKE STORAGE	EACH	1
646(1)	CPM SCHEDULING	L.S.	ALL REQUIRED
660(12)	LIGHTING (PEDESTRIAN TUNNEL)	L.S.	ALL REQUIRED
661(4)	LOAD CENTER, TYPE 3	EACH	1
670(1)	PAINTED TRAFFIC MARKINGS	L.S.	ALL REQUIRED

SUMMARY OF QUANTITIES (PEDESTRIAN TUNNEL)

ITEM NO.	DESCRIPTION	ESTIMATE UNIT	ESTIMATED QUANTITY
203(3)	UNCLASSIFIED EXCAVATION	C.Y.	1,884
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	48
401(1)	HMA, TYPE II; CLASS "B"	TON	26
401(2)	ASPHALT CEMENT, GRADE PG 52-40	TON	1.43

SUMMARY OF QUANTITIES (PEDESTRIAN PATH)

ITEM NO.	DESCRIPTION	ESTIMATE UNIT	ESTIMATED QUANTITY
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	750
401(1)	HMA, TYPE II; CLASS "B"	TON	109
401(2)	ASPHALT CEMENT, GRADE PG 52-40	TON	6

SUMMARY OF QUANTITIES (HIGHWAY AND REST AREA)

ITEM NO.	DESCRIPTION	ESTIMATE UNIT	ESTIMATED QUANTITY
203(3)	UNCLASSIFIED EXCAVATION	C.Y.	100,885
306(1)	ASPHALT TREATED BASE	TON	14,655
306(2)	ASPHALT CEMENT, GRADE PG 52-28	TON	659.48
401(1)	HMA, TYPE II; CLASS "B"	TON	14,655
401(2)	ASPHALT CEMENT, GRADE PG 52-40	TON	806.03

GENERAL NOTES:

1. MONUMENTS MUST BE PERPETUATED BY THE CONTRACTOR IN ACCORDANCE WITH 642-3.03. MONUMENTS MUST BE REFERENCED AND REPLACED. THIS WORK WILL NOT BE MEASURED OR PAID FOR DIRECTLY BUT IS SUBSIDIARY TO PAY ITEM 642(1).
2. ALL BORROW, TYPE B IS EXPECTED TO COME FROM UNCLASSIFIED EXCAVATION.
3. UPON COMPLETION OF PAVING OPERATIONS, GRADE MATERIAL FROM THE SLOPES TO MATCH THE NEW PAVEMENT AND SEED DISTURBED AREAS AS DIRECTED BY THE ENGINEER. GRADING SLOPES WILL NOT BE MEASURED FOR PAYMENT BUT IS SUBSIDIARY TO OTHER WORK ITEMS. SEEDING WILL BE PAID FOR UNDER ITEM 618(2A).
4. SAW CUT ALL TRANSITION MATCH POINTS. APPLY STE-1 TACK COAT TO ALL SAW CUT FACES PRIOR TO PAVING. SAW CUTTING AND TACK COAT WILL NOT BE MEASURED OR PAID FOR DIRECTLY BUT ARE SUBSIDIARY TO THE 401 PAY ITEMS.
5. TO MEET PROVISIONS OF THE CGP, SEEDING MAY REQUIRE MULTIPLE MOBILIZATIONS. ALL MOBILIZATIONS REQUIRED TO MEET THE CGP ARE SUBSIDIARY TO PAY ITEM 641(3).
6. COMPLY WITH THE MIGRATORY BIRD ACT, IN PARTICULAR WHEN DEVELOPING THE TIMING FOR CLEARING.
7. FUEL STORAGE WILL NOT BE ALLOWED WITHIN 100-FT OF WATER BODIES AND MUST HAVE SECONDARY CONTAINMENT.

UTILITY NOTES:

1. BURIED AND OVERHEAD UTILITIES EXIST THROUGHOUT THE PROJECT. LOCATE AND PROTECT FROM CONSTRUCTION DAMAGE ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO BEGINNING ANY GROUND DISTURBING WORK OR CLEARING. CONTACT THE DIGLINE (1-800-478-3121) OR THE UTILITY COMPANIES FOR LOCATES.
2. GCI WILL RELOCATE THEIR BURIED FIBER OPTIC CONCURRENT WITH CONSTRUCTION. NOTIFY GCI WHEN CLEARING IS COMPLETE AND WHEN EXCAVATION/EMBANKMENT ACTIVITIES ARE COMPLETE.
3. SEE SUBSECTION 105-1.06 OF THE SPECIAL PROVISIONS FOR THE UTILITY COMPANY CONTACT INFORMATION AND ADDITIONAL REQUIREMENTS.

POLLUTION CONTROL NOTES:

1. SEED ALL DISTURBED GROUND NOT 100% COVERED BY LOW-ERODIBLE MATERIAL (<6% PASSING NO. 200 SIEVE), RIPRAP, PAVEMENT, OR CONCRETE. PAYMENT WILL BE UNDER 618(2A).

STRIPING NOTES:

1. IF NEW AND EXISTING MARKINGS ARE NOT ALIGNED AT THE MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER.
2. THE DISTANCE BETWEEN THE CENTERLINE AND LANE EDGE IS 12-FT UNLESS OTHERWISE NOTED.
3. THE STRIPE/SKIP RATIO FOR THIS PROJECT WILL BE 10FT/30FT (RURAL). 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(1).

ABBREVIATIONS:

APPROX	APPROXIMATE
E	EAST
FT	FOOT, FEET
IN	INCHES
LT	LEFT
H	HORIZONTAL, HEIGHT
J-BOX	JUNCTION BOX
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NE	NORTHEAST
NO.	NUMBER
NW	NORTHWEST
OD	OUTER DIAMETER
PST	PERFORATED STEEL TUBE
REQ'D	REQUIRED
RMC	RIGID METAL CONDUIT
RT	RIGHT
S	SOUTH
SE	SOUTHEAST
SW	SOUTHWEST
SQ	SQUARE
TS	TUBE STEEL (SQUARE STRUCTURAL STEEL TUBING)
TYP	TYPICAL
W	WEST
V	VERTICAL
&	AND

STATE OF ALASKA 49TH
Lauren M. Little
C.E. 12967
REGISTERED PROFESSIONAL ENGINEER

ESTIMATE OF QUANTITIES & GENERAL NOTES

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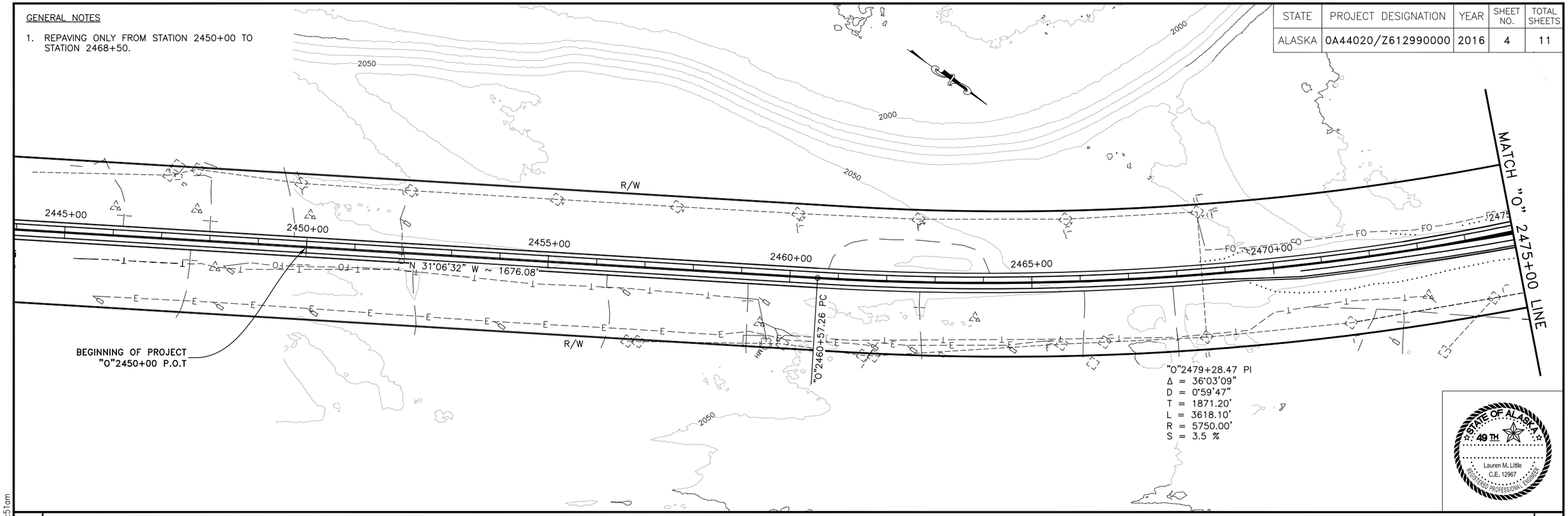
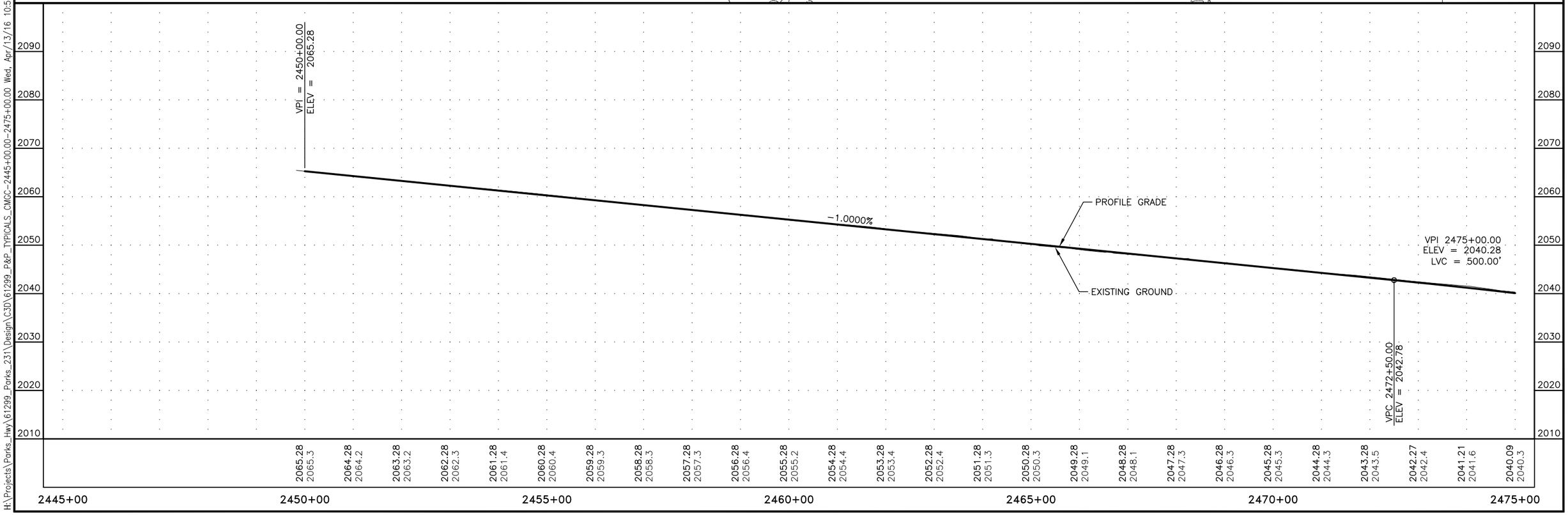
GENERAL NOTES

1. REPAVING ONLY FROM STATION 2450+00 TO STATION 2468+50.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44020/Z612990000	2016	4	11





STATE OF ALASKA
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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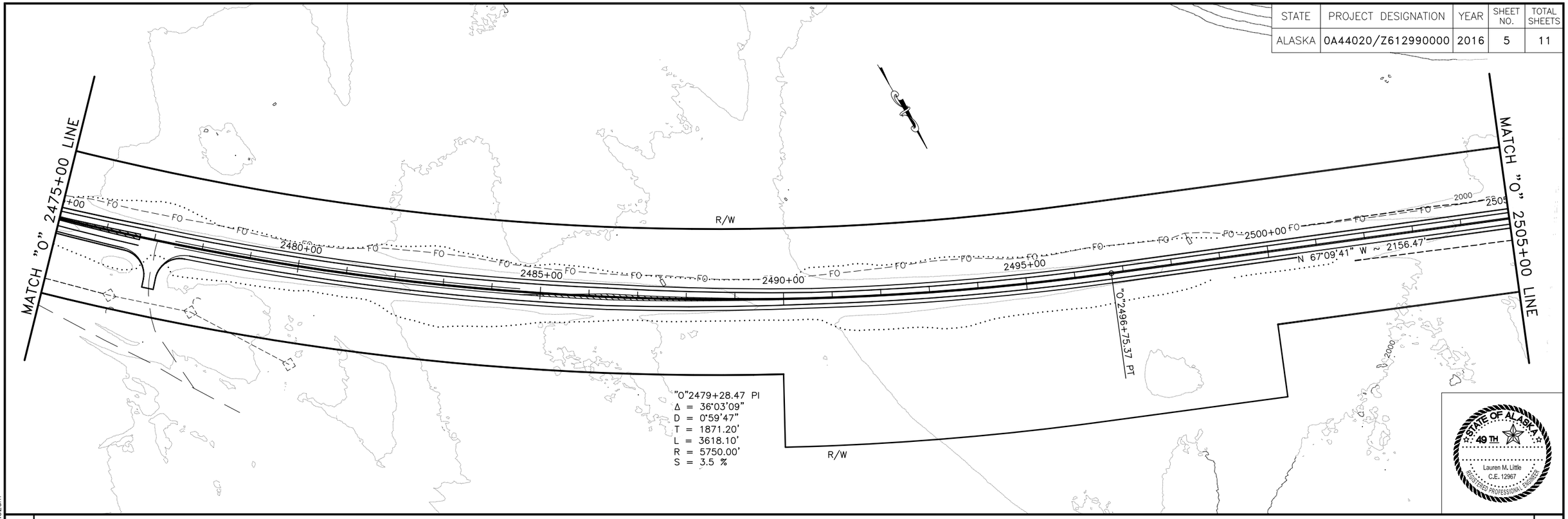

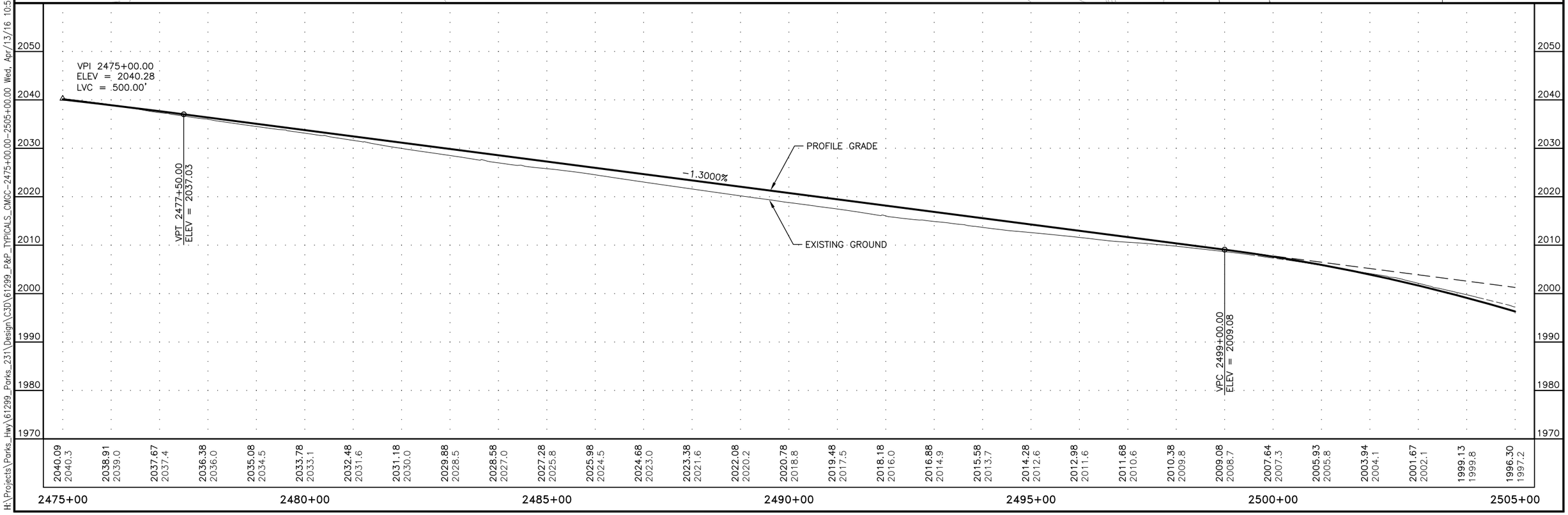

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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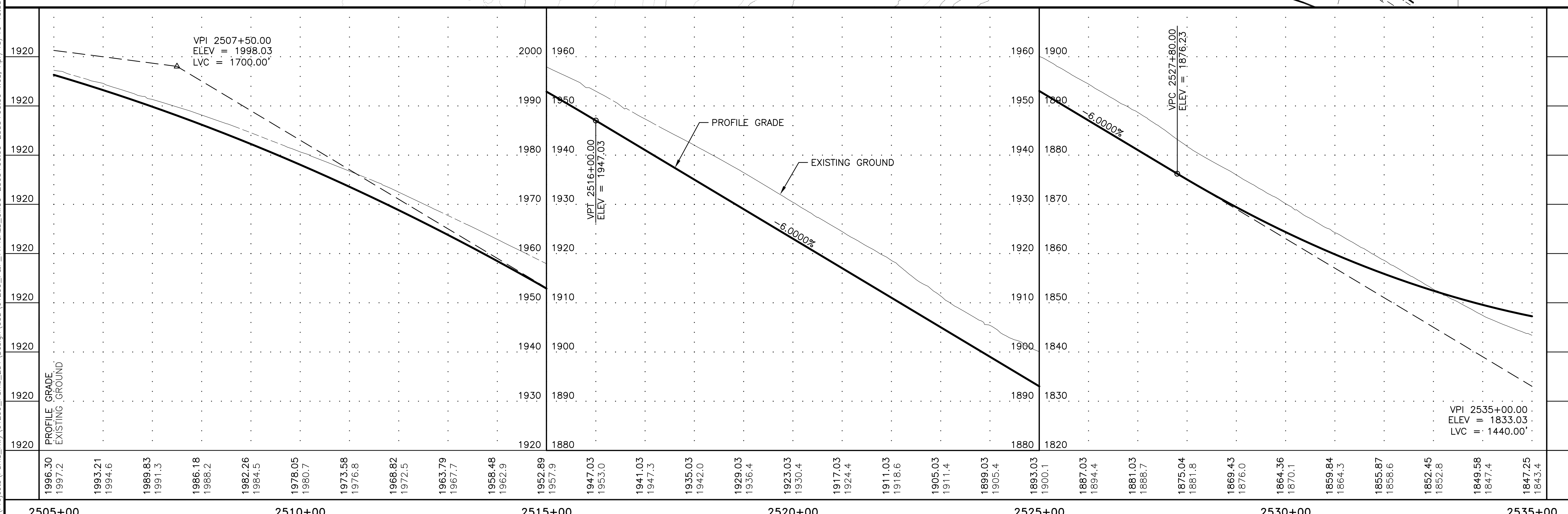

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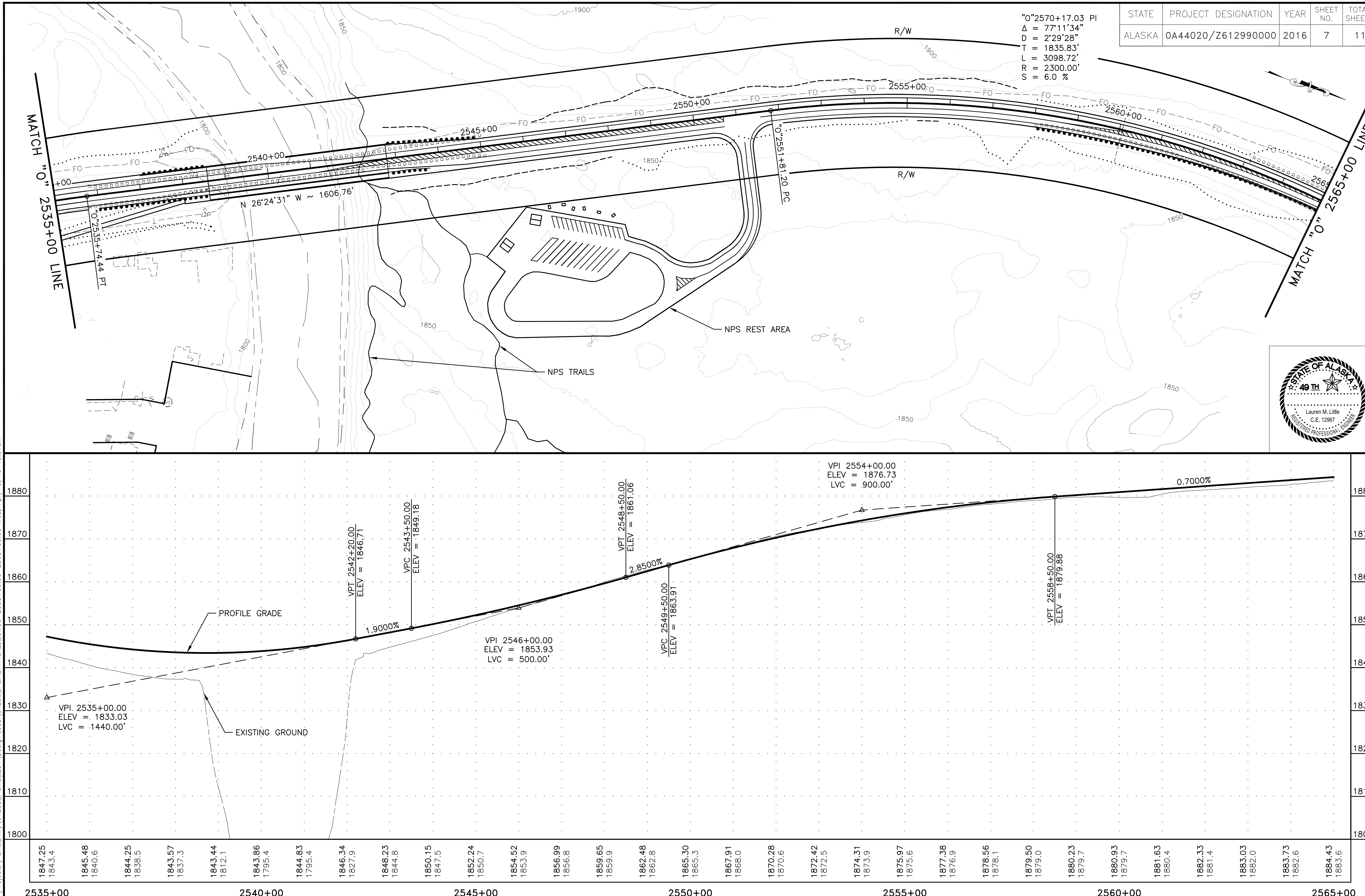
ALASKA	0A44020/Z612990000	2016	7	11



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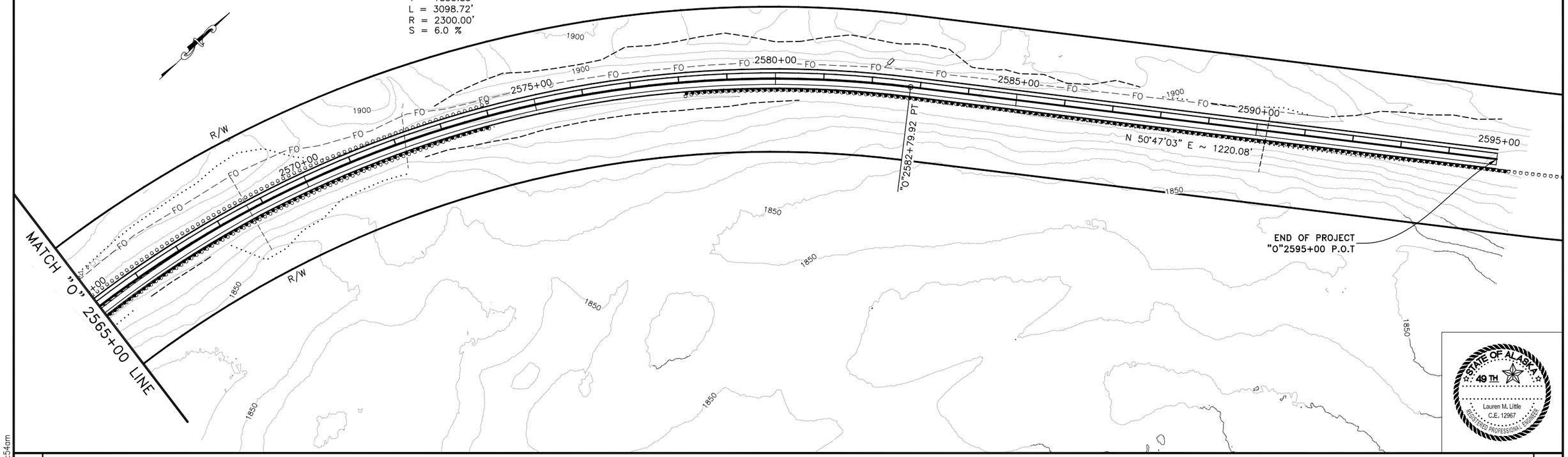
D = 2°29'28"
T = 1835.83'
L = 3098.72'
R = 2300.00'
S = 6.0 %



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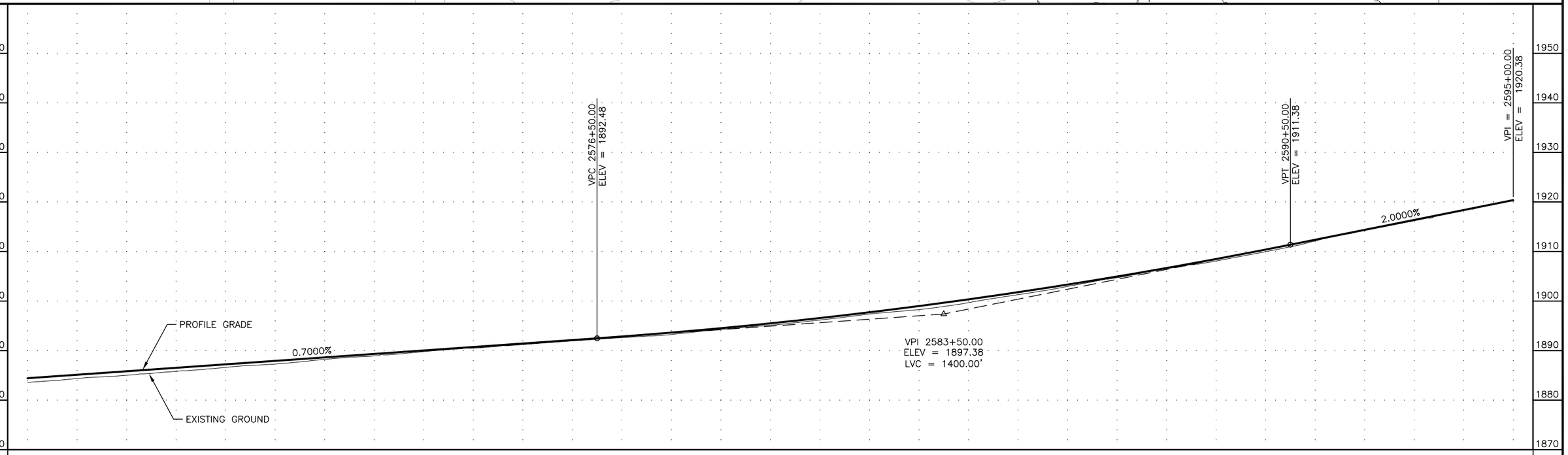

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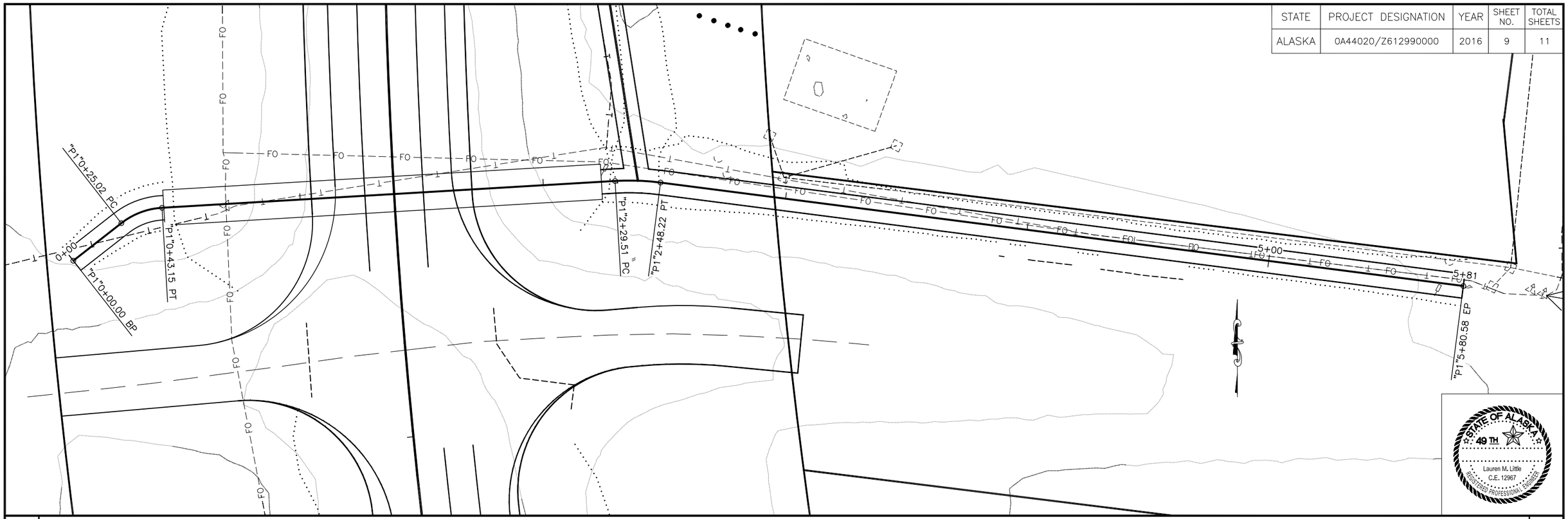

STATE OF ALASKA
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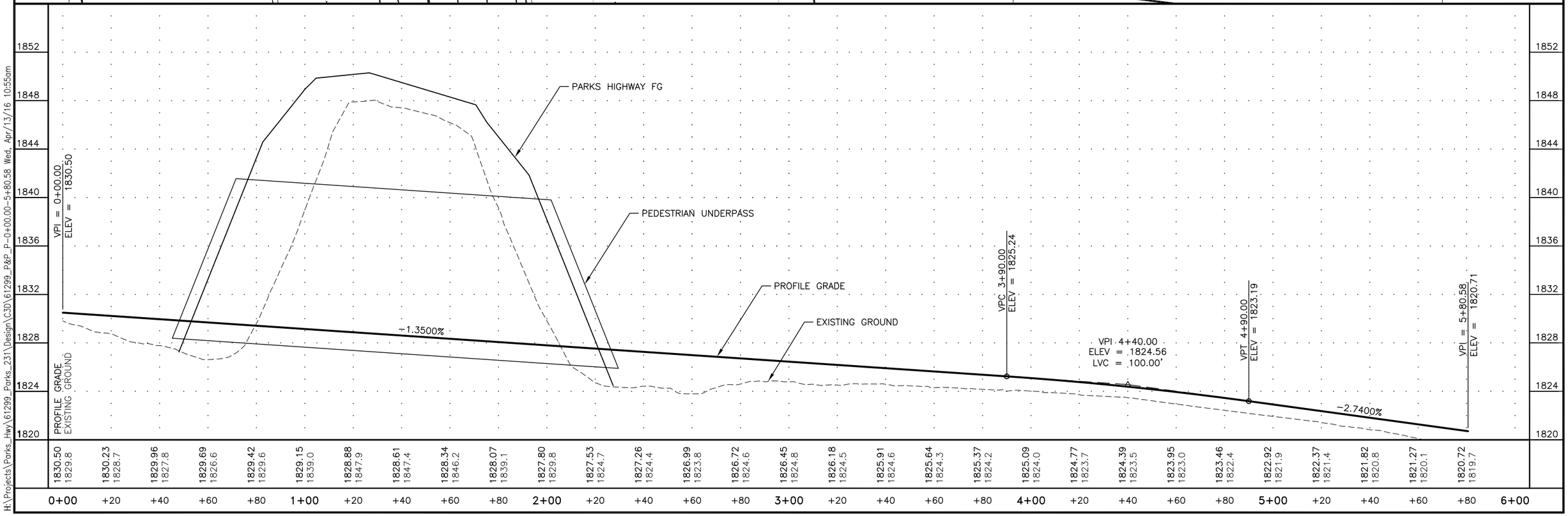

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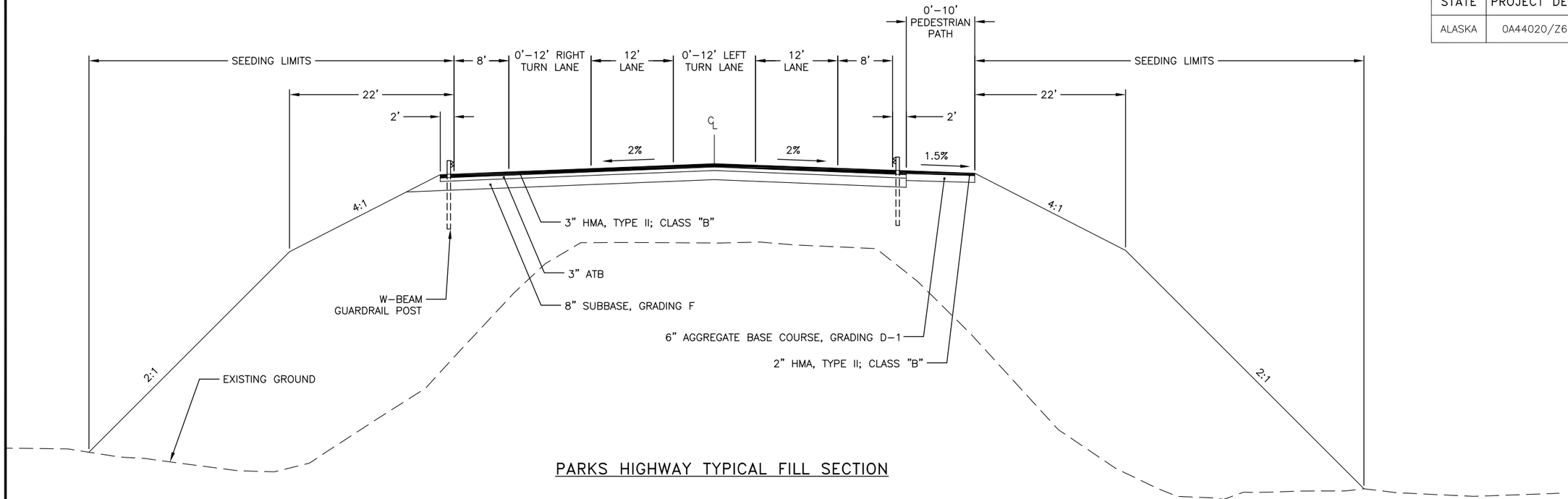
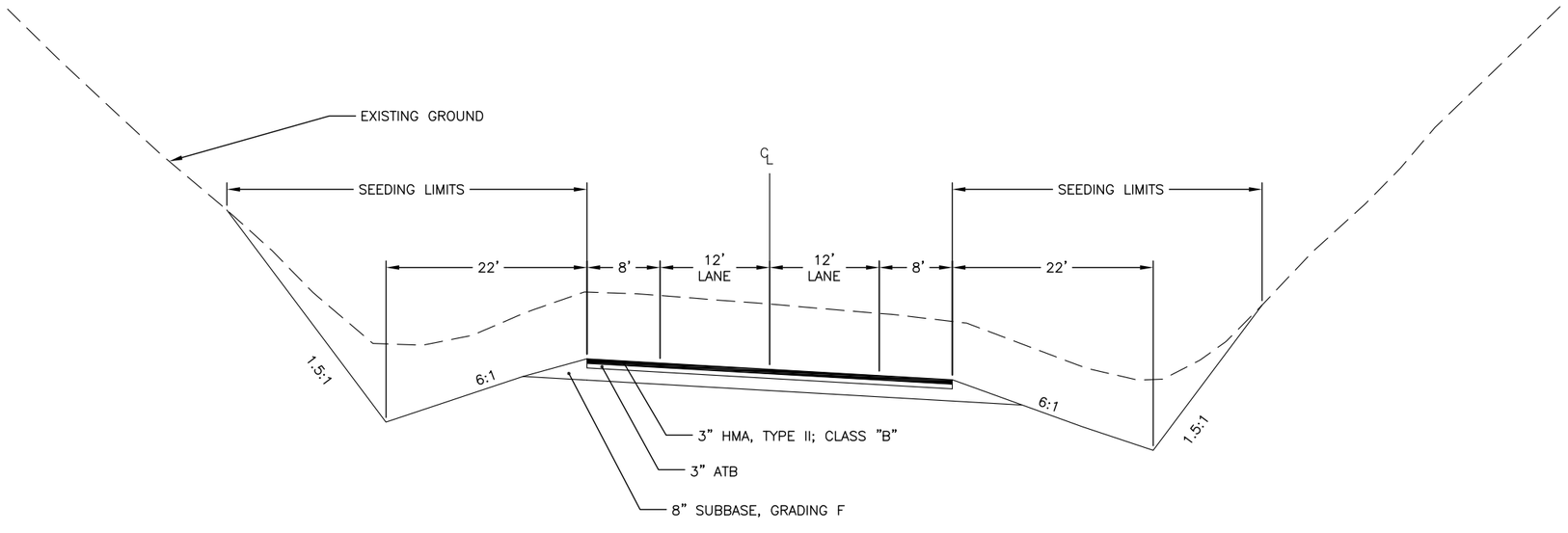
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44020/Z612990000	2016	10	11



PARKS HIGHWAY TYPICAL FILL SECTION



PARKS HIGHWAY TYPICAL CUT SECTION

PARKS HIGHWAY TYPICAL SECTIONS

STATE OF ALASKA 49 TH
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C.E. 12967
REGISTERED PROFESSIONAL ENGINEER

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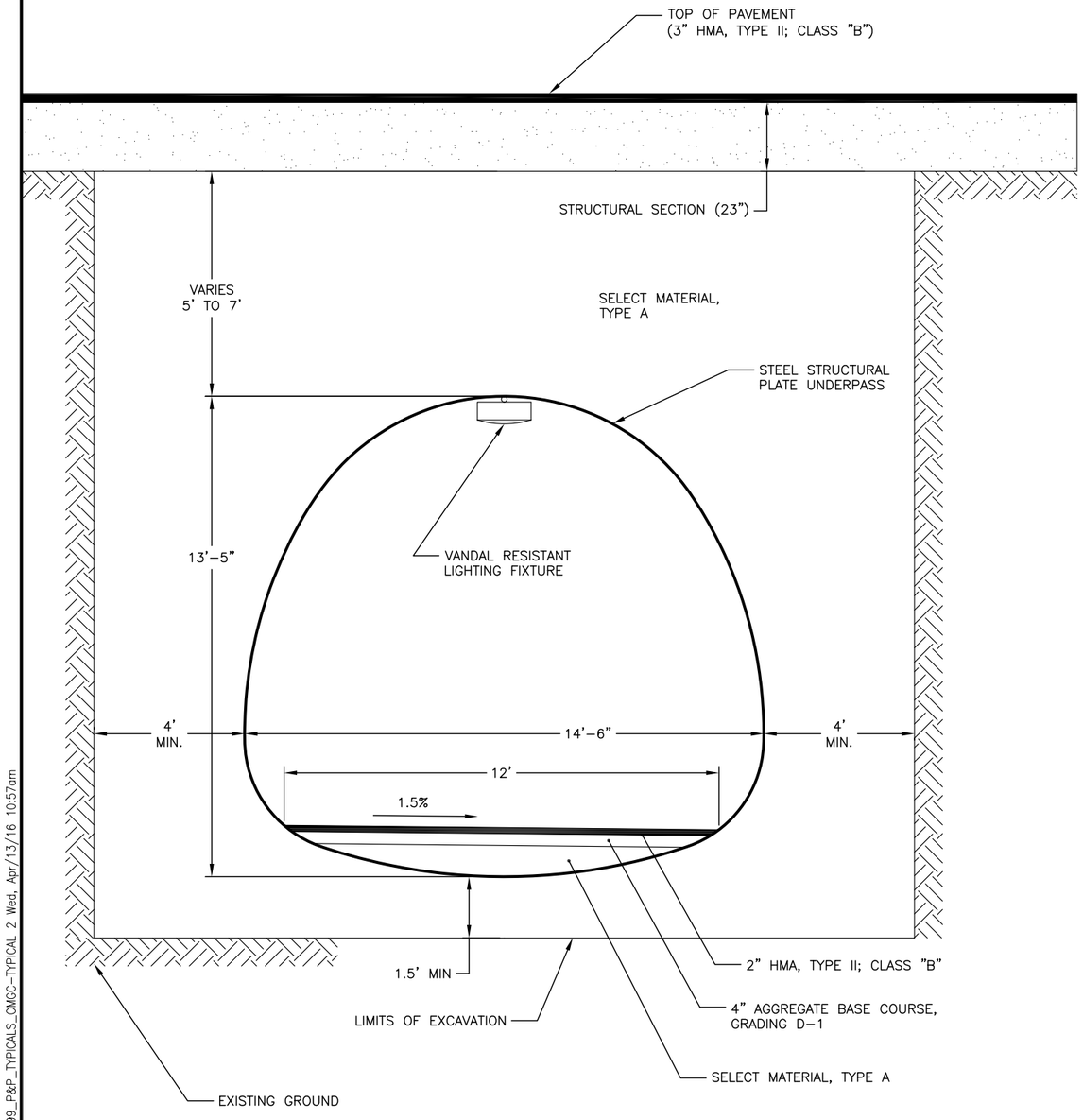
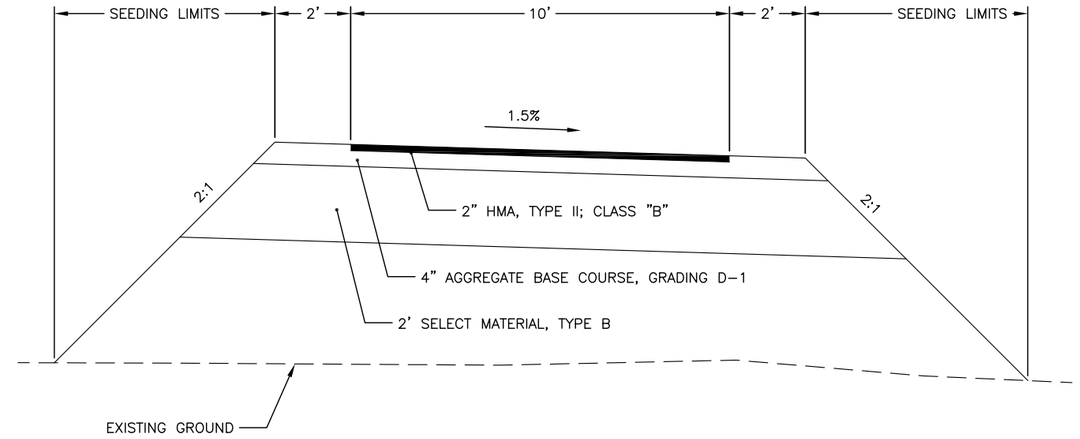
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A44020/Z612990000	2016	11	11



PEDESTRIAN UNDERPASS TYPICAL SECTION



PEDESTRIAN PATH TYPICAL SECTION

PEDESTRIAN FACILITIES TYPICAL SECTIONS

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49 TH
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