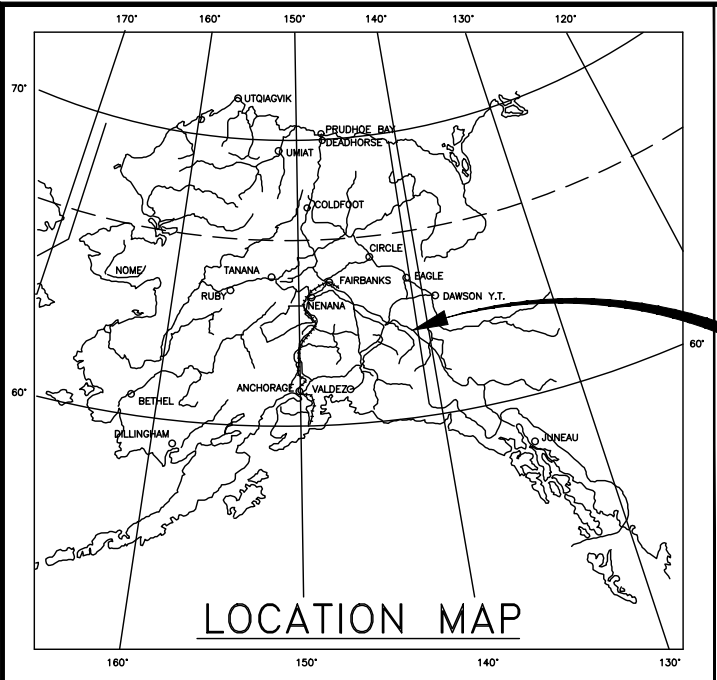


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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

95% PLANS FOR
PROPOSED HIGHWAY PROJECT
Z607520000/0A11014
ALASKA HIGHWAY 1235-1252 REHABILITATION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	A1	94
			CDS ROUTE: 180000		MILEPOINT: 1235.0 TO 1252.0		

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SITE PLAN
A3	LEGEND
A4	PROJECT CONTROL
A5	ALIGNMENT CONTROL & SUPERELEVATION
B1-B3	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES & GENERAL NOTES
D1-D2	SUMMARIES
E1-E2	CULVERT SUMMARY
E3-E6	CULVERT DETAILS
E7-E8	ENHANCED HYDRAULIC DESIGN CULVERT
E9-E10	TURNOUT DETAILS
E11-E14	MP 1250.3 REST AREA IMPROVEMENT DETAILS
E15-E16	MISCELLANEOUS DETAILS
F1-F30	PLAN & PROFILE
G1	APPROACH SUMMARY & DETAILS
H1-H7	SIGNING & STRIPING
N1-N2	GARDINER CREEK BRIDGE REVETMENT PLANS
Q1-Q16	EROSION SEDIMENT CONTROL PLANS
T1-T11	TRAFFIC CONTROL PLANS

THE FOLLOWING STANDARD PLANS APPLY TO THIS PROJECT:
C-05.20
D-01.02, D-04.22
G-00.05, G-05.11S, G-10.20, G-14.01, G-20.12, G-26.00
I-20.20, I-30.10, I-81.00
M-20.15, M-23.13
S-10.02, S-05.02, S-20.11
T-21.04

DESIGN DESIGNATIONS	
ADT (2016)	425
ADT (2040)	479
DHV	95
PERCENT TRUCKS (T)	24.5%
DIRECTIONAL SPLIT (D)	60/40
DESIGN SPEED (V)	65 MPH
DESIGN EAL'S (15 YEARS)	529,911

PROJECT SUMMARY	
WIDTH OF PAVEMENT	36-60 FT
LENGTH OF GRADING	88,600
LENGTH OF PAVING	88,600
LENGTH OF PROJECT	88,600

DAVID FISCHER, P.E., PROJECT MANAGER

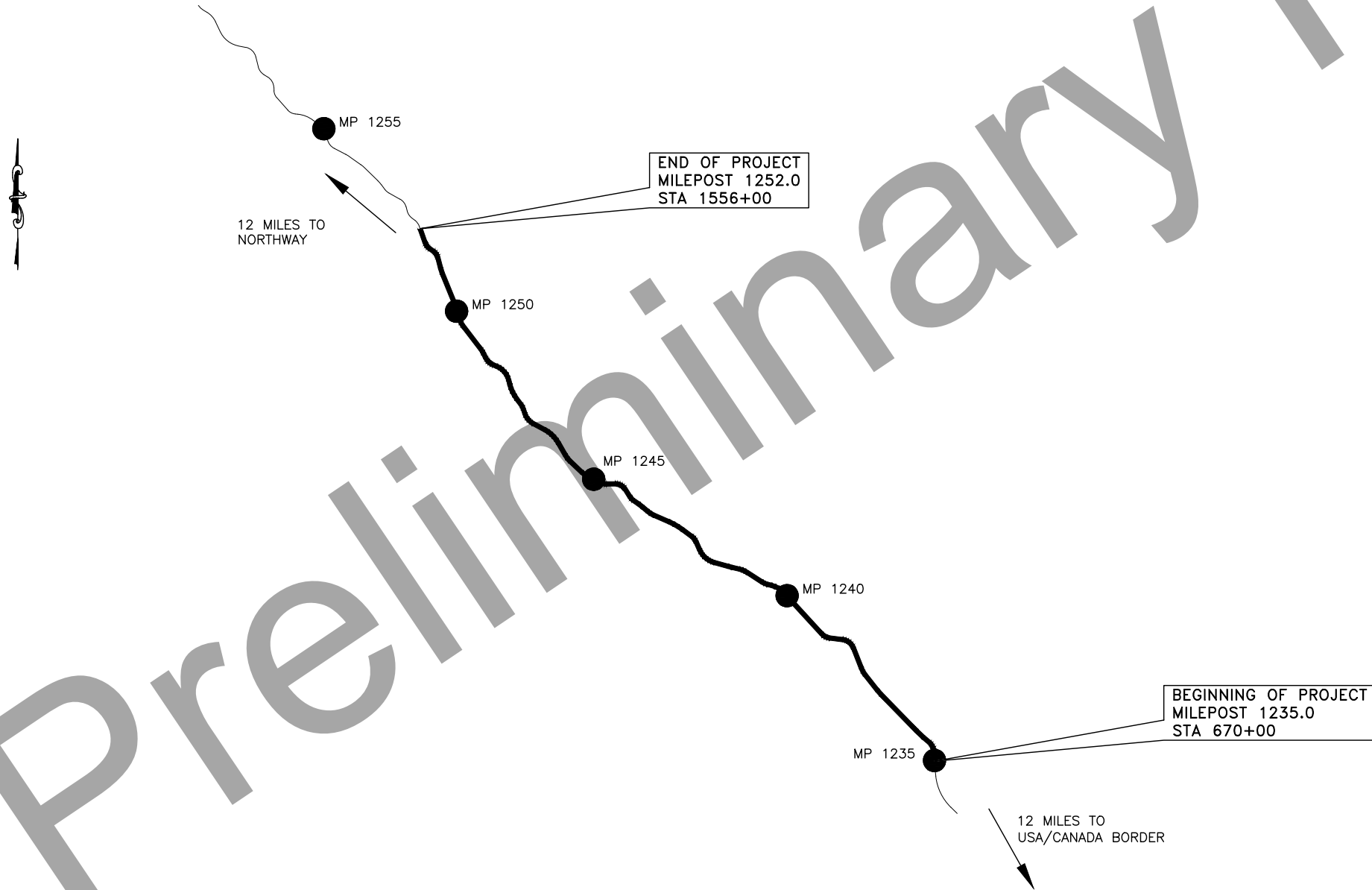
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY: _____ DATE _____

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

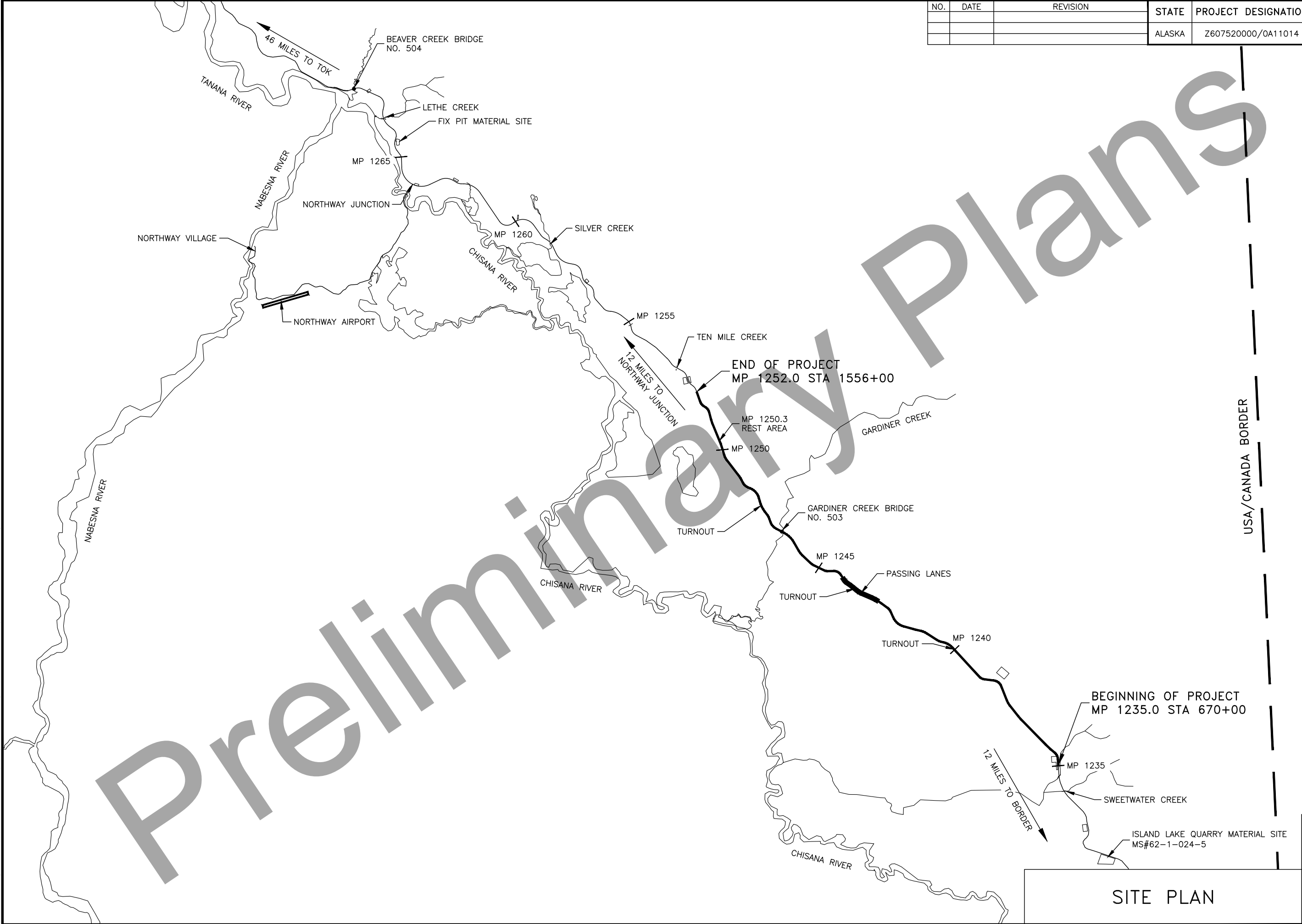
ACCEPTED FOR CONSTRUCTION: _____ DATE _____

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



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	Z607520000/0A11014	2021	A2	A5



SITE PLAN

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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	RECOVERED	SET
BLM MONUMENT		
GLO MONUMENT		
USC&GS MONUMENT		
PRIMARY MONUMENT		
CENTERLINE MONUMENT IN CASING		
PRIMARY R.O.W. MONUMENT		
BEARING OBJECT		
MISCELLANEOUS MONUMENT		
LINE OF SIGHT MONUMENT		
CONCRETE R.O.W. MONUMENT		
BENCHMARK		
REBAR AND CAP		
REBAR		
IRON PIPE		
PK NAIL		
SPIKE		
HUB AND TACK		
CONSTRUCTION CENTERLINE		
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
TEMPORARY EASEMENT LINE (TCP OR TCE)		
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE		

	EXISTING	PROPOSED
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
ROADWAY/PAVEMENT EDGE		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX		
TREE LINE		
WATER BOUNDARY		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS		
POST OR BOLLARD		
WELL OR MONITORING WELL		
SATELLITE DISH		

PLAN VIEW KEY	
STATION DIAMETER X LENGTH INSTALL CULVERT PIPE	STATION DIAMETER X LENGTH SEE CULVERT SUMMARY TABLE
STATION DIAMETER X LENGTH REMOVE PIPE	STATION TYPE, WIDTH SEE APPROACH SUMMARY

LIST OF ABBREVIATIONS

ACS	ALASKA COMMUNICATIONS SYSTEMS
ADT	AVERAGE DAILY TRAFFIC
AVE	AVENUE
AVEC	ALASKA VILLAGE ELECTRIC COOPERATIVE
BFS	BEGIN FULL SUPER
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
BNC	BEGIN NORMAL CROWN
BOP	BEGINNING OF PROJECT
BP	BEGIN POINT
CABC	CRUSHED ASPHALT BASE COURSE
CL	CENTERLINE
COM	COMMERCIAL
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
CRREL	COLD REGIONS RESEARCH AND ENGINEERING LABORATORY
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARDS
D	DEGREE OF CURVATURE
DEMO	DEMOLITION
DELTA, Δ	CENTRAL ANGLE OF CURVE
DHV	DESIGN HOURLY VOLUME
DIA.	DIAMETER
DNR	DEPARTMENT OF NATURAL RESOURCES
DOR	DESIGNER OF RECORD
DRWY	DRIVEWAY
DR	DRIVE
E	EASTING
EG	EXISTING GROUND
ELEV. EL	ELEVATION
ENC	END NORMAL CROWN
EOP	END OF PROJECT
EP	END POINT
EQU	EQUATION
ESAL	EQUIVALENT SINGLE AXLE LOAD
ESCP	EROSION AND SEDIMENT CONTROL PLAN
EX	EXISTING
FASBC	FOAMED ASPHALT STABILIZED BASE COURSE
FG	FINISHED GRADE
FT	FEET
GALV	GALVANIZED
HT	HEIGHT
HWY	HIGHWAY
IN	INCHES
L	LENGTH OF CURVE
LBS	POUNDS
LDP	LOW DISTORTION PROJECTION
LF	LINEAR FOOT
LP	LOW POINT
LS	LUMP SUM
LT	LEFT
LVC	LENGTH VERTICAL CURVE
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
P.C.C.	POINT OF CURVATURE ON CURVE
P.E.	PROFESSIONAL ENGINEER
PED	PEDESTRIAN
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
R, RAD	RADIUS OF CURVE
RES	RESIDENTIAL
REHAB	REHABILITATION
RD	ROAD
ROW, R/W	RIGHT OF WAY
RT	RIGHT

S	SUPERELEVATION
SF	SQUARE FEET
SPP	STRUCTURAL PLATE PIPE
ST	STREET
STA	STATION
SUPER	SUPERELEVATION
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SY	SQUARE YARD
T, TAN	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

LEGEND

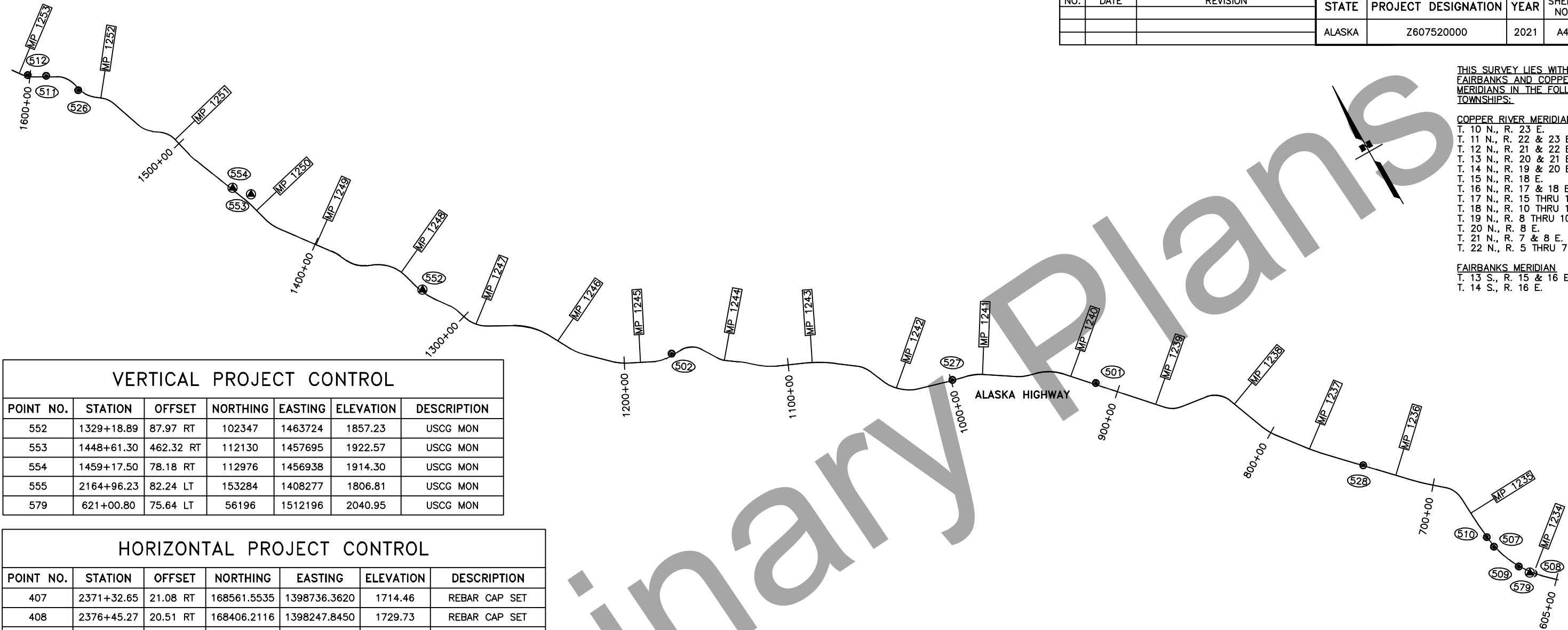
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000	2021	A4	A5

THIS SURVEY LIES WITHIN THE FAIRBANKS AND COPPER RIVER MERIDIANS IN THE FOLLOWING TOWNSHIPS:

COPPER RIVER MERIDIAN
T. 10 N., R. 23 E.
T. 11 N., R. 22 & 23 E.
T. 12 N., R. 21 & 22 E.
T. 13 N., R. 20 & 21 E.
T. 14 N., R. 19 & 20 E.
T. 15 N., R. 18 E.
T. 16 N., R. 17 & 18 E.
T. 17 N., R. 15 THRU 17 E.
T. 18 N., R. 10 THRU 15 E.
T. 19 N., R. 8 THRU 10 E.
T. 20 N., R. 8 E.
T. 21 N., R. 7 & 8 E.
T. 22 N., R. 5 THRU 7 E.

FAIRBANKS MERIDIAN
T. 13 S., R. 15 & 16 E.
T. 14 S., R. 16 E.



VERTICAL PROJECT CONTROL

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
552	1329+18.89	87.97 RT	102347	1463724	1857.23	USCG MON
553	1448+61.30	462.32 RT	112130	1457695	1922.57	USCG MON
554	1459+17.50	78.18 RT	112976	1456938	1914.30	USCG MON
555	2164+96.23	82.24 LT	153284	1408277	1806.81	USCG MON
579	621+00.80	75.64 LT	56196	1512196	2040.95	USCG MON

HORIZONTAL PROJECT CONTROL

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
407	2371+32.65	21.08 RT	168561.5535	1398736.3620	1714.46	REBAR CAP SET
408	2376+45.27	20.51 RT	168406.2116	1398247.8450	1729.73	REBAR CAP SET
501	913+52.16	84.41 RT	78302.4497	1495465.5030	2197.50	REBAR CAP SET
502	1171+00.40	84.93 RT	91947.2959	1474625.2410	1944.30	REBAR CAP SET
503	1643+95.23	87.28 LT	127524.7290	1446636.3080	1987.84	REBAR CAP SET
504	1872+96.11	24.30 LT	142313.2298	1431057.8910	1781.09	REBAR CAP SET
506	2240+17.23	96.97 LT	159860.0340	1405267.4090	1893.53	REBAR CAP SET
507	646+87.38	34.52 LT	58551.8018	1511119.6040	2034.05	REBAR CAP SET
508	618+82.79	19.92 LT	56062.0599	1512378.4730	2051.32	REBAR CAP SET
509	628+29.70	23.17 LT	56829.9939	1511820.2390	2021.80	REBAR CAP SET
510	653+83.02	18.60 LT	59243.8220	1511025.3210	2038.79	REBAR CAP SET
511	1590+34.91	48.95 RT	124035.7331	1450622.4540	1868.71	REBAR CAP SET
512	1601+30.37	67.67 RT	124604.1676	1449701.9970	1875.67	REBAR CAP SET
513	1897+49.07	26.61 LT	144377.1396	1429800.0860	1756.33	REBAR CAP SET
514	1891+30.77	39.72 RT	143980.1351	1430278.6590	1751.62	REBAR CAP SET
515	2069+00.69	63.21 RT	153321.8239	1417423.4610	1785.37	REBAR CAP SET
516	2077+26.04	78.99 LT	153375.7720	1416591.9990	1797.15	REBAR CAP SET
517	2285+92.44	115.31 RT	163689.7022	1403796.3930	1735.04	REBAR CAP SET
518	2294+02.58	60.98 RT	164425.3588	1403533.2650	1749.91	REBAR CAP SET
523	1697+47.96	57.20 RT	131015.6537	1442938.1850	1766.33	REBAR CAP SET
524	1691+43.71	38.31 RT	130419.8589	1443056.1600	1785.10	REBAR CAP SET
526	1568+49.30	90.50 LT	122380.3471	1451845.9740	1979.11	REBAR CAP SET
527	999+17.75	21.17 RT	82564.9209	1488219.8030	2046.47	REBAR CAP SET
528	742+47.93	20.60 RT	66454.6638	1506773.0720	2062.14	REBAR CAP SET

HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY THE ALASKA HWY LOW DISTORTION PROJECTION (LDP), A LOW DISTORTION PROJECTION CREATED BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES.

ALASKA HWY LDP DEFINITION:
LINEAR UNIT: U.S. SURVEY FOOT
DATUM: NAD83 (2011)
PROJECTION: OBLIQUE MERCATOR (RECTIFIED SKEW ORTHOMORPHIC)
LATITUDE OF LOCAL ORIGIN: 63°02'00.0"N (63.033333333333)
LONGITUDE OF LOCAL ORIGIN: 143°52'00.0"W (-143.866666666667)
FALSE NORTHING: -16,200,000.0 SFT
FALSE EASTING: 22,000,000.0 FT
PROJECTION SKEW AXIS SCALE: 1.000046 (EXACT)
GRID SCALE FACTOR: 1.000046
SKEW AXIS AZIMUTH AT ORIGIN: -52°00'00.0" (-52.0)

BASIS OF COORDINATES:
COORDINATES FOR CONTROL POINTS 201 AND 207 ARE BASED ON NGS OPUS SHARED SOLUTIONS AT EACH POINT.
POINT 201:
ALASKA HWY LDP COORDINATES: 52,337.00 N, 1,515,501.29 E
ASP ZONE 2, NAD83(2011)(EPOCH 2010.0000) COORDINATES: 3,188,290.46 N, 1,777,896.24 E
NAD83(2011)(EPOCH 2010.0000) GEODETIC COORDINATES: 62°43'23.75189" N, 141°10'50.51118" W

POINT 207:
ALASKA HWY LDP COORDINATES: 423,180.40 N, 929,762.60 E
ASP ZONE 2, NAD83(2011)(EPOCH 2010.0000) COORDINATES: 3,575,963.14 N, 1203257.30 E
NAD83(2011)(EPOCH 2010.0000) GEODETIC COORDINATES: 63°45'38.02834" N, 144°42'03.26675" W.

BASIS OF BEARINGS:
PROJECT BEARINGS ARE ALASKA HWY LDP GRID BEARINGS AND ARE BASED ON GPS MEASUREMENTS FROM CONTROL POINTS 201 & 207. THE BEARING BETWEEN "POINT 201" AND "POINT 207" IS N57°39'40"W

VERTICAL CONTROL STATEMENT

THE BASIS OF ELEVATIONS IS NAVD88 ORTHOMETRIC HEIGHTS AS DETERMINED BY GEOID-12A IN U.S. SURVEY FEET HOLDING THE OPUS (SHARED) DERIVED VALUES FOR POINTS 201 AND 207.

NOTES:

1. THE INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED BY DOWL FROM AUGUST 27, 2015 THROUGH OCTOBER 12, 2015. BACKGROUND INFORMATION DEPICTED IS SHOWN FOR REFERENCE PURPOSES ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
2. THIS SURVEY WAS PERFORMED TO PROVIDE SURVEY CONTROL AND PLANNING LEVEL TOPOGRAPHIC AND FEATURE MAPPING OF THE ALASKA HIGHWAY PASSING LANES AND ALASKA HIGHWAY MP 1235-1267 REHABILITATION PROJECTS.
3. PRIMARY HORIZONTAL CONTROL WAS ESTABLISHED USING STATIC GPS TECHNIQUES WITH LEICA DUAL FREQUENCY RECEIVERS. VECTORS WERE ADJUSTED BY A SIMULTANEOUS LEAST SQUARES ADJUSTMENT USING LEICA GEO OFFICE VERSION 8.3. THIS SURVEY MEETS OR EXCEEDS 1:10,000 CLOSURE.
4. THE ROAD RIGHT OF WAY AND PROPERTIES ARE GRAPHICALLY SHOWN FOR REFERENCE ONLY. A TRUE BOUNDARY SURVEY WAS NOT A PART OF THIS SURVEY. NO DETERMINATION HAS BEEN MADE TO ENSURE THE BOUNDARIES AS DEPICTED ARE IN THE PROPER LOCATION.
5. ALL DIMENSIONS AND COORDINATES SHOWN ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
6. THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION AS DEFINED BY ALASKA STATUTE 40.15.900(5)(A)

605+00-1600+00

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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'O' ALIGNMENT COORDINATES			
DESCRIPTION	STATION	NORTHING	EASTING
PT	668+64.90	1510901.6450	60720.6461
BOP	670+00.00	1510894.5983	60855.5658
PC	680+83.89	1509640.0152	60080.2849
PI	686+98.45	1510806.0104	62551.7072
PT	692+44.97	1510339.1579	62951.3801
PC	701+65.32	1504909.8343	61937.9791
PI	706+83.16	1509246.6373	63886.6880
PT	712+00.30	1508885.2384	64257.5677
PC	768+96.59	1503143.1063	63549.9168
PI	771+99.05	1504698.7482	68553.8849
PT	775+00.96	1504511.6427	68791.5289
PC	797+13.24	1501830.0046	68337.2613
PI	801+37.26	1502880.8027	70862.8699
PT	805+55.17	1502726.2524	71257.7228
PC	830+14.10	1499162.5388	70529.7162
PI	838+62.42	1501520.8017	74337.4685
PT	845+45.89	1500679.4521	74446.0277
PC	860+75.38	1494092.9161	73547.5015
PI	865+98.91	1498643.3130	74708.7504
PT	870+79.23	1498289.6640	75094.7766
PC	932+91.95	1492200.1095	74641.7547
PI	941+55.87	1493509.3352	80312.7543
PT	949+70.09	1492670.8782	80520.9296
PC	954+55.15	1489969.0285	79675.7453
PI	957+73.83	1491890.8191	80714.6057
PT	960+86.69	1491623.2180	80887.6582
PC	980+56.64	1488229.4633	80637.8139
PI	985+48.17	1489556.2795	82224.3069
PT	990+30.23	1489078.1627	82338.3708
PC	999+02.74	1486288.1102	81957.3902
PI	1001+08.23	1488029.5868	82588.5285
PT	1003+13.67	1487831.5483	82643.3483
PC	1019+15.15	1484246.4921	82540.8441
PI	1031+26.76	1485120.4161	83393.8270
PT	1041+76.92	1484634.6281	84503.7818
PC	1051+44.98	1482730.7297	83070.5932
PI	1055+25.30	1484094.0034	85739.0304
PT	1058+88.47	1483788.7645	85965.9108
PC	1072+06.76	1479524.7048	85390.6160
PI	1080+81.79	1482028.4478	87274.3331
PT	1089+49.23	1481226.3226	87624.0139
PC	1108+05.51	1478271.6662	86752.3354
PI	1112+31.52	1479134.1917	88536.0635
PT	1116+51.33	1478810.1118	88812.5683
PC	1123+59.13	1477194.1956	88365.8221
PI	1126+42.31	1478056.2382	89455.7729
PT	1129+25.03	1477823.7355	89617.4370
PC	1136+91.80	1476319.1136	89271.9698
PI	1139+54.73	1476978.3205	90205.2726
PT	1142+10.37	1476839.5627	90428.6091
PC	1151+96.57	1474194.0196	90055.1699
PI	1159+11.69	1475941.7213	91873.7221
PT	1164+99.72	1475226.6292	91867.5541

'O' ALIGNMENT COORDINATES CONT'D			
DESCRIPTION	STATION	NORTHING	EASTING
PC	1175+32.37	1471945.4808	91266.2934
PI	1178+37.16	1473889.2350	91856.0184
PT	1181+30.70	1473616.2984	91991.6878
PC	1199+96.55	1470133.4249	91858.6473
PI	1202+84.24	1471687.8618	92950.2622
PT	1205+67.63	1471479.3976	93148.5259
PC	1224+25.14	1468846.2393	92822.2066
PI	1228+46.79	1469827.8955	94719.2173
PT	1232+62.42	1469619.0448	95085.5042
PC	1248+22.62	1466005.6704	94428.6379
PI	1259+17.41	1468303.9663	97391.9178
PT	1269+55.03	1467340.2386	97911.3269
PC	1284+71.09	1464937.0539	96440.8674
PI	1292+32.99	1465334.9784	98992.0785
PT	1299+20.99	1465097.2616	99715.9450
PC	1304+34.47	1464192.1372	98630.6035
PI	1307+49.58	1464838.7387	100503.1674
PT	1310+59.06	1464649.4636	100755.0955
PC	1318+20.42	1463288.5924	100203.7899
PI	1327+27.04	1463647.5586	102088.6467
PT	1336+10.56	1463419.9301	102966.2275
PC	1341+33.66	1461556.8854	101363.8040
PI	1352+79.81	1463000.8253	104582.0110
PT	1362+59.24	1461940.5466	105017.2857
PC	1366+73.97	1460490.2943	103472.5765
PI	1372+96.84	1460980.6850	105411.3363
PT	1378+64.32	1460707.4622	105971.0777
PC	1383+59.40	1458137.8008	105174.7896
PI	1386+45.06	1460364.9884	106672.6909
PT	1389+28.84	1460191.4589	106899.6023
PC	1423+09.51	1457394.0823	106415.9815
PI	1427+34.36	1457879.7175	109922.4901
PT	1431+49.67	1457759.7453	110330.0482
PC	1444+44.57	1455847.1142	109585.0142
PI	1447+32.59	1457312.7498	111848.5388
PT	1450+20.12	1457204.1195	112115.2846
PC	1486+18.02	1455374.8629	111572.2438
PI	1488+75.39	1455750.0438	115685.8224
PT	1491+31.98	1455685.8264	115935.0497
PC	1503+78.24	1454450.4211	115447.4624
PI	1508+45.33	1455258.3159	117594.2156
PT	1512+73.61	1454876.9148	117863.8600
PC	1517+95.92	1453293.1801	117141.8974
PI	1522+52.33	1454077.7466	118428.8588
PT	1526+79.60	1453926.1972	118859.3679
PC	1545+85.99	1452463.3442	118165.3840
PI	1550+15.17	1453150.6708	121062.4205
PT	1554+19.96	1452809.0323	121322.1866
EOP	1556+00.00	1452665.7154	121431.1580
PC	1558+54.23	1451821.7642	120657.5916
PI	1563+41.78	1452075.2361	121880.1311
PT	1567+94.10	1451947.7551	122350.7267
PC	1572+75.96	1449917.4534	121585.0317

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	A5	A5

SUPERELEVATION SUMMARY										
CURVE P.I.	RADIUS (FT)	BEGIN TRANSITION	TRANSITION LENGTH (FT)	CURVE P.C.	BEGIN FULL SUPER	SUPER RATE (%)	END FULL SUPER	CURVE P.T.	TRANSITION LENGTH (FT)	END TRANSITION
686+98.45	1432.39	679+10	225.00	680+83.89	681+35	6	691+95	692+44.97	225.00	694+20
706+83.16	11459.16	700+70	110.00	701+65.32	701+80	2	711+85	712+00.3	110.00	712+95
771+99.05	5729.58	767+80	140.00	768+96.59	769+20	3	774+75	775+00.96	140.00	776+15
801+37.26	2864.79	795+60	195.00	797+13.24	797+55	5	805+15	805+55.17	195.00	807+10
838+62.42	1432.39	828+40	225.00	830+14.1	830+65	6	844+95	845+45.89	225.00	847+20
865+98.91	1432.39	859+00	225.00	860+75.38	861+25	6	870+30	870+79.23	225.00	872+55
941+55.87	2864.79	931+40	195.00	932+91.95	933+35	5	949+30	949+70.09	195.00	951+25
957+73.83	1909.86	952+80	225.00	954+55.15	955+05	6	960+35	960+86.69	225.00	962+60
985+48.17	2864.79	979+05	195.00	980+56.64	981+00	5	989+90	990+30.23	195.00	991+85
1001+08.23	11459.16	998+05	115.00	999+02.74	999+20	2	1002+95	1003+13.67	115.00	1004+10
1031+26.76	2546.48	1017+50	210.00	1019+15.15	1019+60	5.4	1041+30	1041+76.92	210.00	1043+40
1055+25.3	1432.39	1049+70	225.00	1051+44.98	1051+95	6	1058+40	1058+88.47	225.00	1060+65
1080+81.79	7639.44	1070+40	185.00	1072+06.76	1072+25	2.4	1089+30	1089+49.23	185.00	1091+15
1112+31.52	2864.79	1105+50	295.00	1108+05.51	1108+45	5	1116+10	1116+51.33	295.00	1119+05
1126+42.31	5729.58	1121+75	210.00	1123+59.13	1123+85	3	1129+00	1129+25.03	210.00	1131+10
1139+54.73	1273.24	1134+05	335.00	1136+91.8	1137+40	6	1141+60	1142+10.37	335.00	1144+95
1159+11.69	1273.24	1150+20	225.00	1151+96.57	1152+45	6	1164+50	1164+99.72	225.00	1166+75
1178+37.16	1273.24	1173+60	225.00	1175+32.37	1175+85	6	1180+80	1181+30.7	225.00	1183+05
1202+84.24	1909.86	1198+20	225.00	1199+96.55	1200+45	6	1205+15	1205+67.63	225.00	1207+40
1228+46.79	2864.79	1222+70	195.00	1224+25.14	1224+65	5	1232+20	1232+62.42	195.00	1234+15
1259+17.41	3819.72	1246+85	175.00	1248+22.62	1248+60	4.2	1269+20	1269+55.03	175.00	1270+95
1292+32.99	1909.86	1282+95	225.00	1284+71.09	1285+20	6	1298+70	1299+20.99	225.00	1300+95
1307+49.58	1909.86	1302+60	225.00	1304+34.47	1304+85	6	1310+10	1310+59.06	225.00	1312+35
1327+27.04	4583.66	1316+95	155.00	1318+20.42	1318+50	3.6	1335+80	1336+10.56	155.00	1337+35
1352+79.81	2291.83	1339+65	215.00	1341+33.66	1341+80	5.6	1362+10	1362+59.24	215.00	1364+25
1372+96.84	1637.02	1365+00	225.00	1366+73.97	1367+25	6	1378+15	1378+64.32	225.00	1380+40
1386+45.06	2864.79	1382+00	200.00	1383+59.4	1384+00	5	1388+85	1389+28.84	200.00	1390+85
1427+34.36	2291.83	1421+45	210.00	1423+09.51	1423+55	5.6	1431+05	1431+49.67	210.00	1433+15
1447+32.59	5729.58	1443+30	140.00	1444+44.57	1444+70	3	1449+95	1450+20.12	140.00	1451+35
1488+75.39	3819.72	1484+80	175.00	1486+18.02	1486+55	4.2	1490+95	1491+31.98	175.00	1492+70
1508+45.33	1273.24	1502+05	225.00	1503+78.24	1504+30	6	1512+25	1512+73.61	225.00	1514+50
1522+52.33	1432.39	1516+20	225.00	1517+95.92	1518+45	6	1526+30	1526+79.6	225.00	1528+55
1550+15.17	1432.39	1544+10	225.00	1545+85.99	1546+35	6	1553+70	1554+19.96	225.00	1555+95

SUPERELEVATION NOTES:

- THE SUPERELEVATION POINT IS CENTERLINE AT THE PROFILE GRADE.
- SEE STANDARD DRAWING I-81.00 FOR SUPERELEVATION TRANSITION DETAILS. THE TRANSITION LENGTHS GIVEN IN THE SUMMARY DO NOT INCLUDE THE ½ VERTICAL CURVE LENGTHS SHOWN ON EACH END OF THE TRANSITION.

ALIGNMENT CONTROL

95%

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	Z607520000/0A11014	2021	B1	B3

GENERAL TYPICAL SECTION NOTES:

- POINT OF SUPERELEVATION ROTATION IS ABOUT CENTERLINE. SEE STANDARD PLAN I-81.00 FOR TRANSITION DETAILS.
- SEED ALL GROUND DISTURBED BY CONSTRUCTION ACTIVITIES THAT WILL NOT BE COVERED BY: ASPHALT, AGGREGATE BASE COURSE, GRADING D-1, AGGREGATE SURFACE COURSE, GRADING E-1, DITCH LINING, OR RIPRAP. IN ACCORDANCE WITH SECTION 618.
- WHERE NEW CONSTRUCTION ABUTS EXISTING ASPHALT USE THE PAVEMENT TRANSITION DETAIL ON SHEET E16.

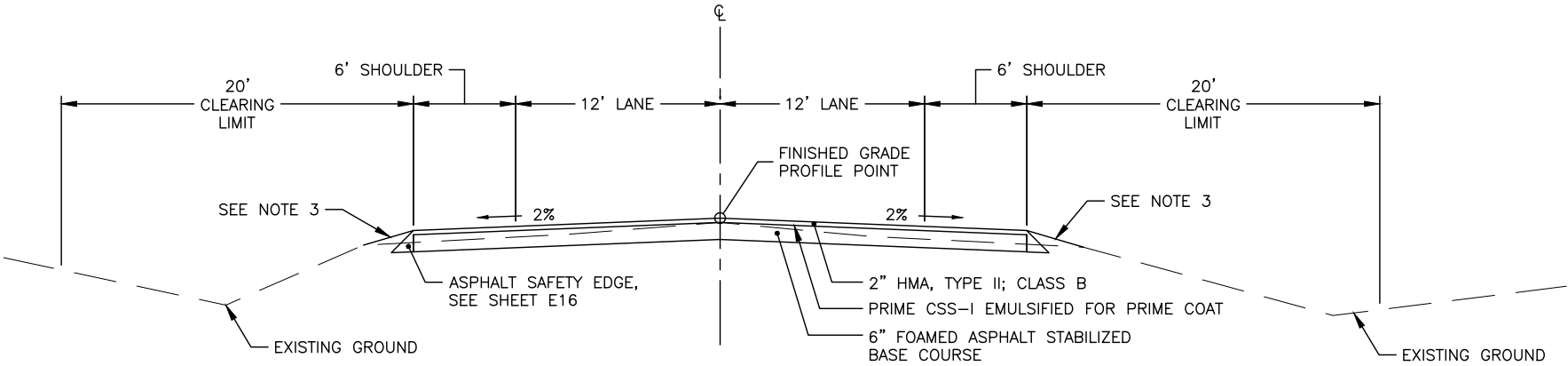
TYPICAL SECTION 1 NOTES:

- SEE ADDITIONAL RECLAMATION DETAILS, NOTES AND REQUIREMENTS ON SHEET B3.
- USE SELECTED MATERIAL, TYPE B, FOR SHOULDERING MATERIAL UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- DAYLIGHT TO EXISTING EMBANKMENT HINGE POINT, EXCEPT WHERE SPECIFIED IN SLOPE TABLE.

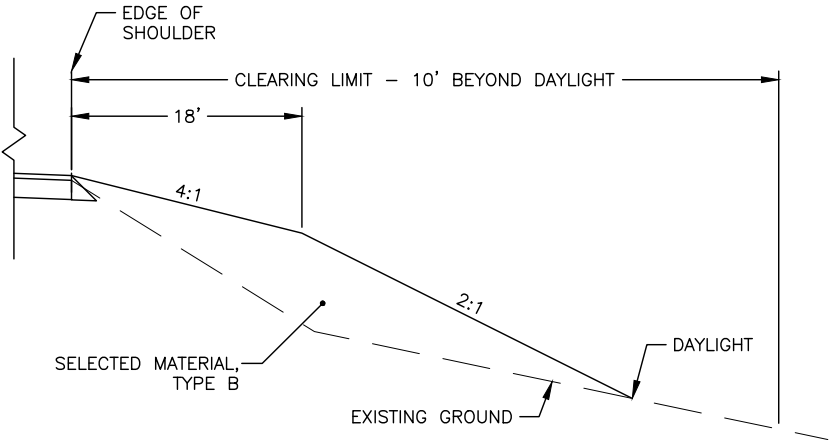
SLOPE TABLE			
BEGIN STA	END STA	LT/RT	TYPICAL SECTION
732+50	736+50	LT & RT	SLOPE TREATMENT 1
941+00	946+00	RT	SLOPE TREATMENT 2
1030+00	1034+00	RT	SLOPE TREATMENT 2
1166+00	1172+00	LT & RT	SLOPE TREATMENT 2
1258+00	1262+00	LT & RT	SLOPE TREATMENT 1
1335+00	1338+00	RT	SLOPE TREATMENT 2
1416+00	1425+00	RT	SLOPE TREATMENT 2

STABILIZATION BERM NOTES:

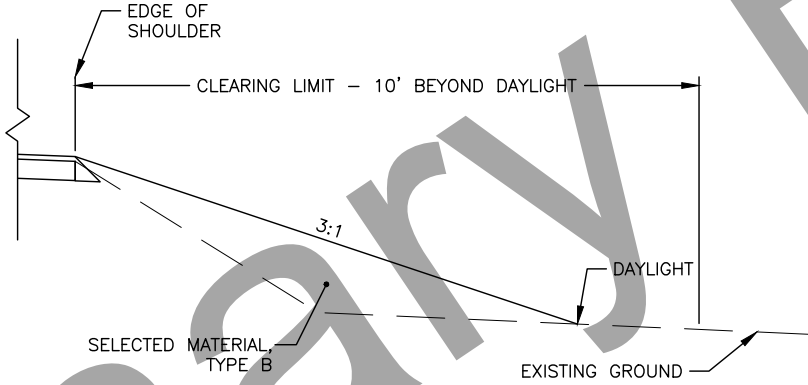
- THE STABILIZATION BERM IS INTENDED FOR PLACEMENT OF EXCESS EXCAVATION NOT REUSED ELSEWHERE IN THE PROJECT LIMITS. MEET THE MINIMUM REQUIREMENTS SHOWN. FULL STABILIZATION IS REQUIRED.
- THE STABILIZATION BERM SHALL BE SEEDED AND CONSTRUCTED TO MAINTAIN POSITIVE DRAINAGE.
- SLOPES SHALL BE SMOOTH AND FREE OF PROTRUDING STUMPS, BRUSH, OR ROOT WADS.



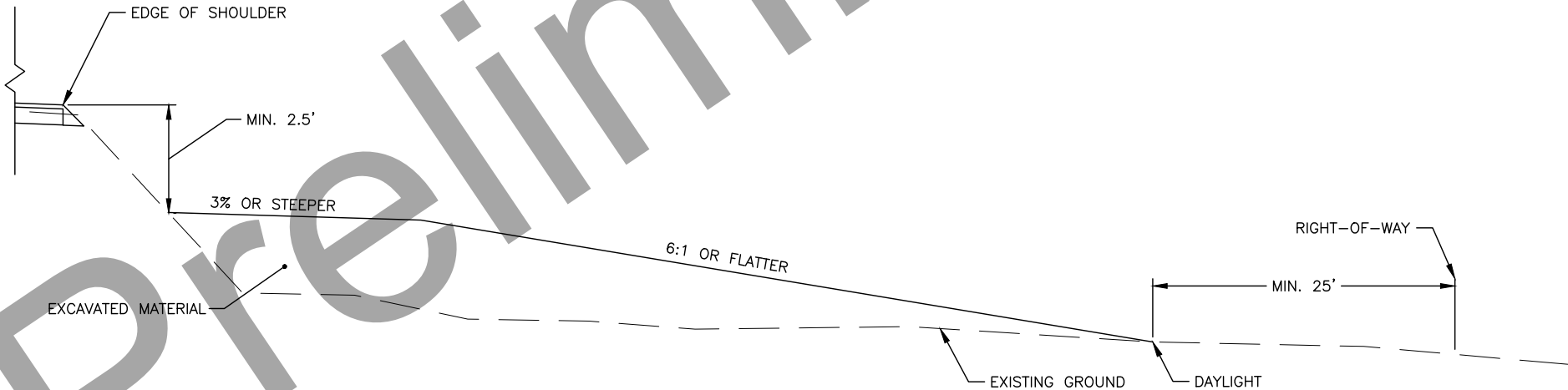
TYPICAL SECTION 1
"O" STA 670+00 TO 1076+00
"O" STA 1147+00 TO 1273+58.3
"O" STA 1274+76.8 TO 1556+00



TYPICAL SECTION: SLOPE TREATMENT 1



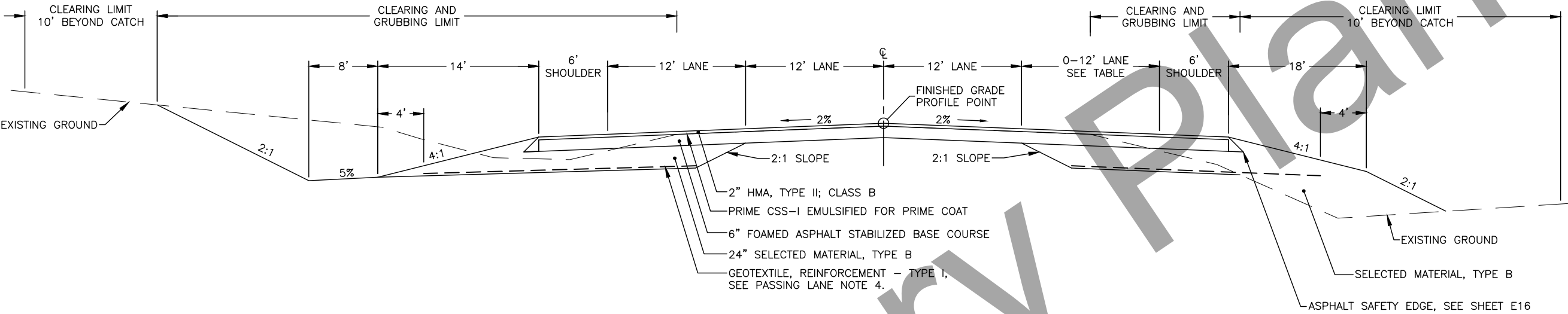
TYPICAL SECTION: SLOPE TREATMENT 2



TYPICAL SECTION: STABILIZATION BERM
"O" STA 1186+00 TO 1215+00 RT
"O" STA 1206+00 TO 1215+00 LT

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	Z607520000/OA11014	2021	B2	B3



TYPICAL SECTION 2: PASSING LANE
SEE PASSING LANE SUMMARY TABLE

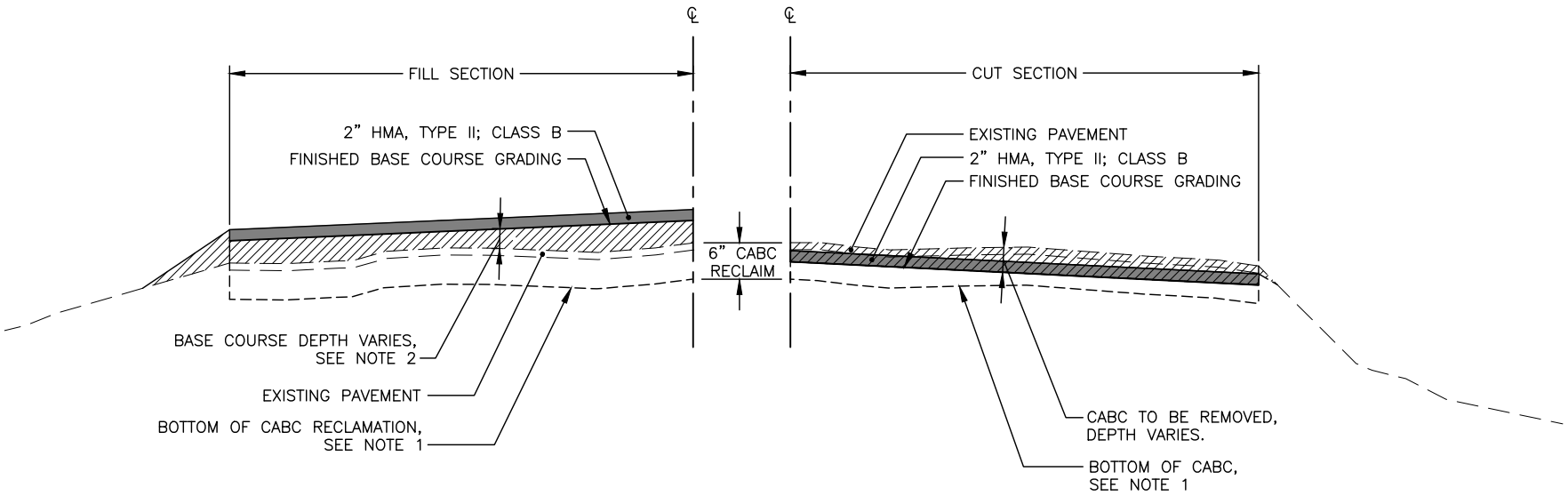
PASSING LANE SUMMARY TABLE													
MP 1243.5 PASSING LANE													
DIRECTION	STATION	OFFSET	DESCRIPTION	STATION	OFFSET	DESCRIPTION	STATION	OFFSET	DESCRIPTION	STATION	OFFSET	DESCRIPTION	TOTAL LENGTH
WESTBOUND	1076+00	12' RT	BEGIN TAPER	1081+20	24' RT	END TAPER	1135+00	24' RT	BEGIN TAPER	1142+80	12' RT	END TAPER	6680'
EASTBOUND	1077+20	12' LT	BEGIN TAPER	1085+00	24' LT	END TAPER	1141+80	24' LT	BEGIN TAPER	1147+00	12' LT	END TAPER	6980'

TYPICAL SECTION PASSING LANE NOTES:

1. PRIOR TO BORROW PLACEMENT, REMOVE ORGANICS FROM EXISTING FORSLOPES TO THE EXTENT OF THE PROPOSED TOE. PRESERVE THE EXISTING MAT TO THE FURTHEST EXTENT POSSIBLE BEYOND THE PROPOSED TOE.
2. BENCH NEW EMBANKMENT FILL INTO THE EXISTING EMBANKMENT IN ACCORDANCE WITH SUBSECTION 203-3.03 OF THE SPECIFICATIONS. BENCHING IS SUBSIDIARY TO 203(6) BORROW.

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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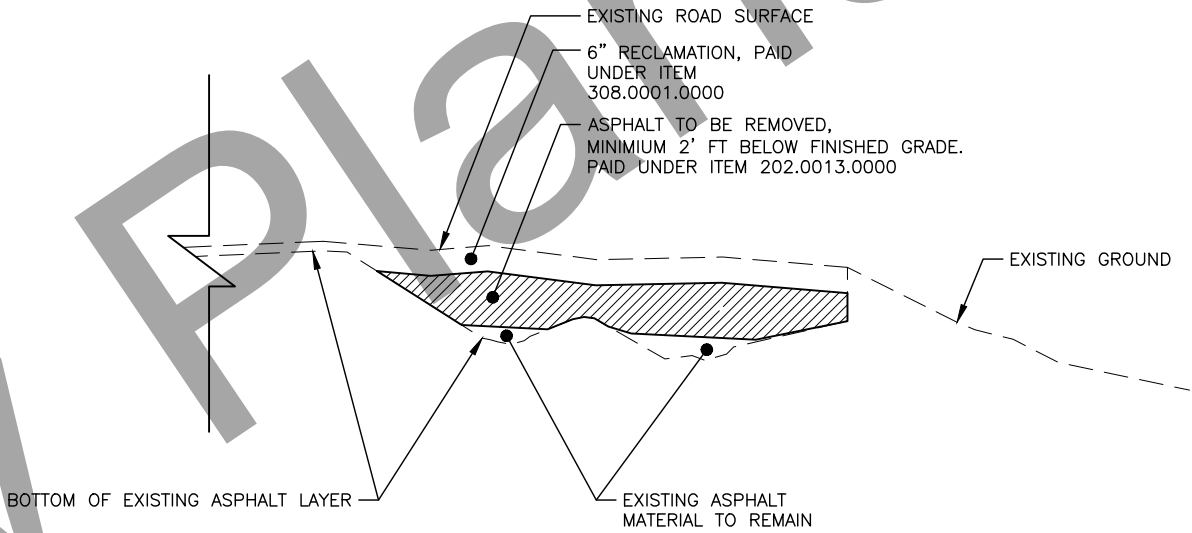
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	B3	B3



PHASE 1 – CRUSHED ASPHALT BASE COURSE DETAIL (PAY ITEM 308.0001.0000)

CRUSHED ASPHALT BASE COURSE NOTES:

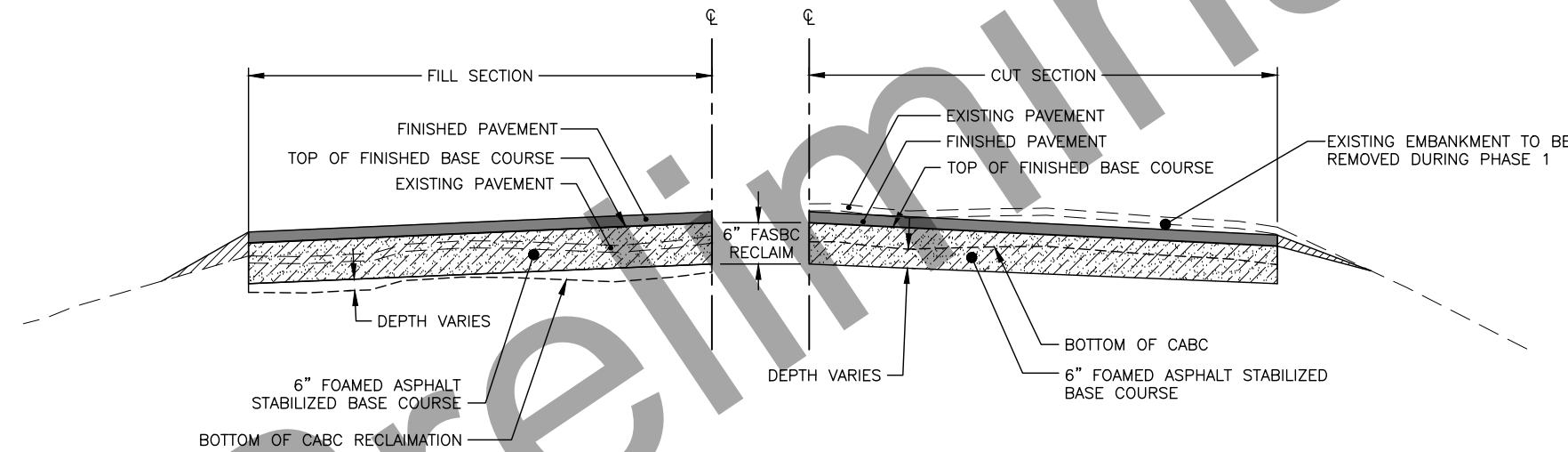
1. TYPICAL RECLAMATION DEPTH IS 6" MEASURED FROM TOP OF THE EXISTING PAVEMENT SURFACE.
2. REUSE EXCESS CRUSHED ASPHALT BASE COURSE PRIOR TO IMPORTING AGGREGATE BASE COURSE GRADING, D-1.
3. ALL WORK TO ESTABLISH FINISHED GRADING OF CRUSHED ASPHALT BASE COURSE WILL BE PAID FOR UNDER ITEM 308.0001.0000. AGGREGATE BASE COURSE WILL PAID UNDER 301.0001.00D1.
4. FINISHED BASE COURSE GRADING MUST BE COMPLETED AND ACCEPTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF WORK UNDER ITEM 318.2000.0000 FOAMED ASPHALT STABILIZED BASE COURSE IN ANY AREA OF THE PROJECT.



SUBEXCAVATION DETAIL

SUBEXCAVATION NOTES:

1. THE PROPOSED HMA LAYER IS NOT SHOWN FOR CLARITY.
2. TYPICAL RECLAMATION DEPTH IS 6" BELOW THE EXISTING ROAD SURFACE. NOTIFY THE ENGINEER WHEN ON-SITE EQUIPMENT ACTION INDICATES EXISTING ASPHALT MATERIAL EXCEEDS THIS DEPTH. IN LOCATIONS WHERE THE ENGINEER CONFIRMS THE EXISTING ASPHALT MATERIAL EXCEEDS 6", THE CONTRACTOR HAS THE FOLLOWING OPTIONS:
 - A) RECLAIM TO THE BOTTOM OF THE ASPHALT MATERIAL LAYER, OR TO A MINIMUM RECLAMATION DEPTH OF 2' BELOW FINISH GRADE.
 - B) REMOVE OR DISPOSE OF THE EXISTING ASPHALT MATERIAL BY OTHER MEANS, TO A MINIMUM DEPTH OF 2' BELOW FINISHED GRADE. EXCAVATED MATERIAL WILL BE REPLACED WITH CRUSHED ASPHALT BASE COURSE.
3. THE WORK REQUIRED TO RECLAIM ASPHALT MATERIAL TO THE TYPICAL RECLAMATION DEPTH OF 6" WILL BE MEASURED AND PAID UNDER 308.0001.0000 CRUSHED ASPHALT BASE COURSE.
4. THE WORK REQUIRED TO RECLAIM OR REMOVE ASPHALT MATERIAL BELOW THE TYPICAL RECLAMATION DEPTH WILL BE INITIATED BY DIRECTIVE AND PAID UNDER 202.2031.0000 REMOVAL OF PAVEMENT. BACKFILL OF EXCAVATED MATERIAL IS SUBSIDIARY TO THIS ITEM. BACKFILL MATERIAL WILL BE SELECTED MATERIAL, TYPE B TO THE BOTTOM OF THE TYPICAL RECLAMATION LAYER.
5. SEE SPECIAL PROVISIONS SECTION 308 AND 318 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.



PHASE 2 – FOAMED ASPHALT STABILIZED BASE COURSE DETAIL (PAY ITEM 318.2000.0000)

FOAMED ASPHALT STABILIZED BASE COURSE NOTES:

1. FOAMED ASPHALT STABILIZED BASE COURSE RECLAMATION DEPTH IS 6" MEASURED FROM TOP OF FINISHED BASE COURSE.

CABC AND FASBC
RECLAMATION DETAILS

95%

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	C1	C1

ESTIMATE OF QUANTITIES			
ITEM NO.	DESCRIPTION	PAY UNIT	QUANTITY
201.0009.0000	CLEARING AND GRUBBING	LS	ALL REQUIRED
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQUIRED
202.0010.0000	SINGLE MAIL BOX INSTALLATION	EACH	1
202.0017.0000	REMOVAL OF CULVERT PIPE	EACH	36
202.2031.0000	REMOVAL OF PAVEMENT	CY	5,550
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	27,300
203.0006.000B	BORROW, TYPE B	TON	79,900
204.2002.0000	EMBEDMENT MATERAIL	CY	22,000
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	40,300
301.0003.00E1	AGGREGATE SURFACE COURSE, GRADING E-1	TON	240
308.0001.0000	CRUSHED ASPHALT BASE COURSE	SY	360,100
318.2000.0000	FOAMED ASPHALT STABILIZED BASE COURSE	SY	373,334
318.2001.5228	ASPHALT BINDER, GRADE PG 52-28	TON	2,352
318.2002.0012	PORTLAND CEMENT, TYPE I OR II	TON	1,176
318.2003.0000	FOAMED ASPHALT TECHNICIAN	LS	ALL REQUIRED
401.0001.002B	HMA, TYPE II; CLASS B	TON	44,500
401.0004.0000	ASPHALT BINDER, GRADE PG 52E-40	TON	2,500
401.0008.002B	HMA PRICE ADJUSTMENT, TYPE II; CLASS B	CS	ALL REQUIRED
401.0009.0000	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CS	ALL REQUIRED
401.0010.0001	PAVEMENT SMOOTHNESS PRICE ADJUSTMENT, METHOD I	CS	ALL REQUIRED
401.0012.002B	HMA DRIVEWAY, TYPE II; CLASS B	TON	1,500
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CS	ALL REQUIRED
403.0002.CSS1	CSS-1 EMULSIFIED ASPHALT FOR PRIME COAT	TON	112
406.0003.0000	RUMBLE STRIPS	LF	177,200
507.0001.0002	STEEL BRIDGE RAILING	LF	237
602.0001.0060	STRUCTURAL PLATE PIPE 60" DIAMETER, 10 GAUGE	LF	1,080
602.0001.0072	STRUCTURAL PLATE PIPE 72" DIAMETER, 10 GAUGE	LF	195
603.0001.0018	CSP 18 INCH	LF	100
603.0001.0024	CSP 24 INCH	LF	440
603.0001.0036	CSP 36 INCH	LF	2,470
603.2016.0000	CLEAN CULVERT	EACH	13
606.0001.0000	W-BEAM GUARDRAIL	LF	4,010
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LF	3,066
606.0013.0000	PARALLEL GUARDRAIL TERMINAL	EACH	12
606.0016.0000	TRANSITION RAIL	EACH	4
610.0001.0000	DITCH LINING	CY	1,540
611.0001.0002	RIPRAP, CLASS II	CY	570
613.0002.0000	CULVERT MARKER POST	EACH	84
615.0001.0000	STANDARD SIGN	SF	336
615.0002.0000	REMOVE AND RELOCATE SIGN	EACH	3
615.0007.0000	SALVAGE AND DISPOSE SIGN	EACH	33
616.0002.0050	THAW PIPE 1/2 INCH DIAMETER	EACH	25
618.0002.0000	SEEDING	LB	1,000
622.0010.0000	FIREPLACE, CLASS ROUND	EACH	2
622.2026.0000	DOUBLE CONCRETE VAULTED TOILET	EACH	1
622.2027.0000	BARRIER ROCK	EACH	9
622.2029.0000	ACCESSIBLE PICNIC TABLE	EACH	4
622.2031.0000	TRASH CAN	EACH	1
630.0003.0002	GEOTEXTILE, REINFORCEMENT - TYPE 2	SY	51,100
631.2001.0000	GEOTEXTILE, EROSION CONTROL - CLASS 1	SY	2,000
639.0001.0000	DRIVEWAY	EACH	13

ESTIMATE OF QUANTITIES (CONT'D)			
ITEM NO.	DESCRIPTION	PAY UNIT	QUANTITY
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQUIRED
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQUIRED
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQUIRED
641.0003.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LS	ALL REQUIRED
641.0004.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CS	ALL REQUIRED
641.0006.0000	WITHHOLDING	CS	ALL REQUIRED
641.0007.0000	SWPPP MANAGER	LS	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQUIRED
642.0003.0000	THREE PERSON SURVEY PARTY	HR	100
643.0002.0000	TRAFFIC MAINTENANCE	LS	ALL REQUIRED
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQUIRED
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQUIRED
643.0025.0000	TRAFFIC CONTROL	CS	ALL REQUIRED
643.2001.0000	TEMPORARY DIVERSIONS	LS	ALL REQUIRED
644.0001.0000	FIELD OFFICE	LS	ALL REQUIRED
644.0002.0000	FIELD LABORATORY	LS	ALL REQUIRED
644.0006.0000	VEHICLE	LS	ALL REQUIRED
644.0015.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
646.0001.0000	CPM SCHEDULING	LS	ALL REQUIRED
670.0001.0000	PAINTED TRAFFIC MARKINGS	LS	ALL REQUIRED

ESTIMATING FACTORS		
ITEM NO.	DESCRIPTION	VALUE
203.0006.000B	BORROW, TYPE B	1.94 TON/CY
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	1.94 TON/CY
301.0003.00E1	AGGREGATE SURFACE COURSE, GRADING E-1	1.94 TON/CY
306.0002.5228	ASPHALT BINDER, GRADE PG 52-28	4.5% WEIGHT OF 306.0001.0000
318.2000.0000	FOAMED ASPHALT STABILIZED BASE COURSE	140 LB/CF
318.2001.5228	ASPHALT BINDER, GRADE PG 52-28	2.0% WEIGHT OF 318.2000.0000
318.2002.0001	PORTLAND CEMENT, TYPE I	1.0% WEIGHT OF 318.2000.0000
401.0001.002B	HOT MIX ASPHALT, TYPE II; CLASS B	2.04 TON/CY
401.0004.5228	ASPHALT BINDER, GRADE PG 52-28	4.5% WEIGHT OF 401.0001.002B
401.0012.002B	HOT MIX ASPHALT, DRIVEWAY, TYPE II; CLASS B	2.04 TON/CY
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.000240 TON/SY OF 401.0001.002B
611.0002.0002	RIPRAP, CLASS II	108 LB/CF
618.0002.0000	SEEDING	1.5 LB/MSF

GENERAL NOTES

1. PERFORM ALL WORK WITHIN THE EXISTING RIGHT-OF-WAY AND WITHIN THE PERMITTED TEMPORARY CONSTRUCTION AREA.
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.
4. RIGHT OF WAY AND PROPERTY LINES SHOWN ARE FOR VISUAL REPRESENTATION ONLY AND SHOULD BE VERIFIED IN THE FIELD.

UTILITY NOTES:

1. LOCATE & 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.
2. PROTECT, OR REMOVE AND REPLACE EXISTING UTILITY MARKER POSTS. THIS WORK IS SUBSIDIARY TO OTHER PAY ITEMS.

ESTIMATE OF QUANTITIES

95%

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	Z607520000/0A11014	2021	D1	D2

201.0001.0000 CLEARING AND GRUBBING SUMMARY					
BEGIN STATION	END STATION	OFFSET	CLEARING AREA (ACRE)	CLEARING AND GRUBBING AREA (ACRE)	REMARKS
670+00	732+50	LT & RT	6.4	—	TYPICAL SECTION 1
732+50	736+50	LT & RT	0.8	—	TYPICAL SECTION: SLOPE TREATMENT 1
736+50	941+00	LT & RT	20.7	—	TYPICAL SECTION 1
941+00	946+00	RT	0.4	—	TYPICAL SECTION: SLOPE TREATMENT 2
941+00	946+00	LT	0.3	—	TYPICAL SECTION 1
946+00	1030+00	LT & RT	8.5	—	TYPICAL SECTION 1
1030+00	1034+00	RT	0.3	—	TYPICAL SECTION: SLOPE TREATMENT 2
1030+00	1034+00	LT	0.3	—	TYPICAL SECTION 1
1034+00	1076+00	LT & RT	4.3	—	TYPICAL SECTION 1
1076+00	1147+00	LT & RT	3.7	15.2	PASSING LANE
1147+00	1166+00	LT & RT	2.0	—	TYPICAL SECTION 1
1166+00	1172+00	LT & RT	0.8	—	TYPICAL SECTION: SLOPE TREATMENT 2
1172+00	1258+00	LT & RT	8.7	—	TYPICAL SECTION 1
1258+00	1262+00	LT & RT	1.0	—	TYPICAL SECTION: SLOPE TREATMENT 1
1262+00	1335+00	LT & RT	7.4	—	TYPICAL SECTION 1
1335+00	1338+00	RT	0.3	—	TYPICAL SECTION: SLOPE TREATMENT 2
1335+00	1338+00	LT	0.2	—	TYPICAL SECTION 1
1338+00	1416+00	LT & RT	7.9	—	TYPICAL SECTION 1
1416+00	1425+00	RT	1.0	—	TYPICAL SECTION: SLOPE TREATMENT 2
1416+00	1425+00	LT	0.5	—	TYPICAL SECTION 1
1425+00	1556+00	LT & RT	13.3	—	TYPICAL SECTION 1
—	—	—	—	0.4	REST AREA MP 1250.3
—	—	—	2.3	—	CULVERT ENDS
		TOTALS	91.1	15.6	

406.0003.0000 RUMBLE STRIPS			
BEGIN STATION	END STATION	LENGTH (FT)	REMARKS
670+00	1556+00	88,600	LEFT SIDE
670+00	1556+00	88,600	RIGHT SIDE

RUMBLE STRIP NOTES:

- CONSTRUCT THE RUMBLE STRIPS IN ACCORDANCE WITH SECTION 406 AND STANDARD PLAN T-25.00
- FOLLOW DETAILS SHOWN ON E15

202.0010.0000 MAILBOX		
"O" STATION	OFFSET	SINGLE (EACH)
1323+33	24 LT	1

MAILBOX NOTES:

- 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.

202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS				
SHEET	BEGIN STATION	END STATION	OFFSET	REMARKS
E11	1451+40	1458+20	LEFT	EXISTING REST AREA FEATURES AND STRUCTURES

606 GUARDRAIL 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)	606.0013.0000 PARALLEL GUARDRAIL TERMINAL (EACH)	606.0016.0000 TRANSITION RAIL (EACH)	REMARKS
958+00	965+62	RT	662	251	2		
958+52	966+76	LT	724	350	2	—	
1062+25	1076+00	RT	1275	1255	2	—	
1149+15	1161+39	RT	1124	929	2	—	
1271+62	1273+58	RT	125	70	1	1	GARDINER CREEK BRIDGE
1272+87	1273+58	LT	—	70	1	1	GARDINER CREEK BRIDGE
1274+77	1275+48	RT	—	70	1	1	GARDINER CREEK BRIDGE
1274+77	1276+48	LT	100	71	1	1	GARDINER CREEK BRIDGE
		TOTALS	4010	3066	12	4	

GUARDRAIL NOTES:

- FOR PARALLEL GUARDRAIL TERMINALS, CONSTRUCT THE GUARDRAIL TERMINAL WIDENING IN ACCORDANCE WITH THE STANDARD GUARDRAIL TERMINAL WIDENING DETAIL ON STANDARD PLAN G-20.12. THE END OFFSET (X) SHALL BE NO MORE THAN 2 FEET.
- INSTALL GUARDRAIL POSTS IN ACCORDANCE WITH STANDARD PLAN G-10.20.

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 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	Z607520000/OA11014	2021	D2	D2

610.0001.0000 DITCH LINING			
STATION	OFFSET	VOLUME (CY)	REMARKS
712+88	LT & RT	180	RESTORING DIVERSION IMPACTS & CHANNEL REALIGNMENT
736+27	LT & RT	40	CHANNEL REALIGNMENT
763+69	LT & RT	310	RESTORING DIVERSION IMPACTS & CHANNEL REALIGNMENT
897+61	LT & RT	60	CHANNEL REALIGNMENT
943+97	LT & RT	40	CHANNEL REALIGNMENT
961+80	LT & RT	190	RESTORING DIVERSION IMPACTS & CHANNEL REALIGNMENT
1070+91	LT & RT	30	CHANNEL REALIGNMENT
1150+15	RIGHT	90	RESTORING DIVERSION IMPACTS & CHANNEL REALIGNMENT
1141+00-1143+00	RIGHT	200	STEEP DITCH ARMORING
1256+00-1260+00	RIGHT	400	STEEP DITCH ARMORING
	TOTAL	1,540	

CHANNEL REALIGNMENT SUMMARY				
CULVERT LOC. NO.	STATION	CHANNEL LENGTH, LEFT OFFSET (LF)	CHANNEL LENGTH, RIGHT OFFSET (LF)	REMARKS
CUD02	712+88	30	80	UNNAMED STREAM
CUD04	736+27	25	50	UNNAMED STREAM
CUD05	763+69	35	130	UNNAMED STREAM
CUD10	897+61	50	65	
CUD15	943+87	30	45	UNNAMED STREAM
CUD16	961+80	40	65	UNNAMED STREAM
CUD19	1070+91	30	25	
CUD23	1150+15	0	60	

- CHANNEL REALIGNMENT NOTES:
- SEE SHEET E6 AND E8 FOR ADDITIONAL CHANNEL REALIGNMENT REQUIREMENTS.
 - CHANNEL LAYOUT AND QUANTITIES ARE SUBJECT TO FIELD REVISIONS BY THE ENGINEER

618.0002.0000 SEEDING				
BEGIN STATION	END STATION	OFFSET	AREA (SY)	REMARKS
1076+00	1147+00	LT & RT	50,000	NEW PASSING LANE SLOPES
670+00	1556+00	LT & RT	10,725	REPLACED CULVERT SLOPES
1065+00	1076+00	RT	1,500	SEEDING FILL SLOPES
1146+00	1160+00	RT	1,850	SEEDING FILL SLOPES

630 GEOTEXTILE SUMMARY				
BEGIN STATION	END STATION	630.0003.0001 GEOTEXTILE, REINFORCEMENT - TYPE 1 (SY)	630.0002.0001 GEOTEXTILE, STABILIZATION - CLASS 1 (SY)	REMARKS
1076+00	1147+00	36,500	-	PASSING LANES
670+00	1556+00	14,000	-	CULVERT BEDDING
670+00	1556+00	-	2,000	INLET/OUTLET RIPRAP APRONS

TURNOUT SUMMARY						
NAME	STATION	LT/RT	SURFACE AREA (SF)	SURFACING	SCOPE, TYPICAL SECTION	REMARKS
MP 1240.0 TURNOUT	929+23	LT	5,633	AGGREGATE SURFACE COURSE, E-1	RESURFACING, SHEET E9	HIDDEN LAKE TRAILHEAD
MP 1243.7 TURNOUT	1120+37	LT	30,256	HMA DRIVEWAY, TYPE II; CLASS B	RECLAIM, SHEET E10	
MP 1247.7 TURNOUT	1328+93	RT	21,035	HMA DRIVEWAY, TYPE II; CLASS B	RECLAIM, SHEET E9	
MP 1250.3 REST AREA	1454+77	LT	33,168	HMA, TYPE II; CLASS B	CONSTRUCT, SHEET E12	FEATURE LAYOUT, SHEET E11

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 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																		Z607520000/OA11014	2021	E1	E16		
CULVERT SUMMARY																							
LOC. NO.	STATION	202.0017.0000 REMOVAL OF CULVERT PIPE		INLET			OUTLET			602.0001.00XX SPP LENGTH (FT)		603.0001.00XX CSP LENGTH (FT)			CULVERT DEPTH (FT) SEE NOTE 14	603.2016.0000 CLEAN AND REPAIR CULVERT ENDS	611.0002.0000 RIPRAP, CY SHEET E6	613.0002.0000 CULVERT MARKER POSTS SHEET E3	616.0002.0050 THAW PIPE INSTALLATION SHEET E3	REMARKS			
		DIAMETER (IN)	REMOVE (FT)	STATION	OFFSET	INVERT ELEVATION	STATION	OFFSET	INVERT ELEVATION	60” DIA.	72” DIA.	18” DIA.	24” DIA.	36” DIA.									
CU01	685+30	24	102	0685+28.8	64.8’ RT	2095.0	0685+30.5	37.5’ LT	2099.5					102	13			2	1				
CUD02	712+88	48	153												24								
CUD02A	712+99			0712+91.8	72.9’ RT	2064.8	0713+09.4	82.6’ LT	2062.0	155					24		60	2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CU03	722+12	24													15	1		2					
CUD04A	736+00			0736+20.4	79.2’ RT	2022.5	0735+87.9	112.0’ LT	2018.5		195				35		90	2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CUD04	736+27	48	195												35								
CUD05A	763+58			0763+23.9	70.0’ LT	2054.1	0763+95.3	78.1’ RT	2052.2	180					22		60	2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CUD05	763+69	36	158												21								
CU06	814+89	24	52	0815+14.8	39.8’ RT	2163.1	0814+63.1	39.4’ RT	2160.3				52		0					APPROACH CULVERT			
CU07	820+49	24													8	1		2					
CU08	854+83	36													11	1		2	1				
CU09	889+39	24	112	0889+38.8	49.7’ RT	2140.8	0889+40.0	62.1’ LT	2136.9					112	14			2	1				
CUD10	897+61	36	163												24								
CUD10A	897+72			0897+71.1	72.9’ RT	2129.0	0897+72.9	89.0’ LT	2123.0	162					24		60	2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CU11	905+47	24	31	0905+31.4	41.7’ LT	2166.4	0905+61.9	41.8’ LT	2167.8				31		0					APPROACH CULVERT			
CU12	923+59	24													5	1		2					
CU13	929+24	24													0	1		2		APPROACH CULVERT			
CU14	936+58	24	124	0936+58.7	66.6’ RT	2074.4	0936+58.3	57.4’ LT	2069.2					124	15		30	2	1				
CUD15A	943+75			0943+60.7	74.7’ RT	2074.0	0943+93.7	86.9’ LT	2066.0					170	20		30	2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CUD15	943+87	36	165												19								
CUD16A	961+66			0961+99.8	94.8’ RT	2043.0	0961+29.7	104.4’ LT	2039.0	211					38		60	2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CUD16	961+80	36	211												38								
CU17	993+68	48													51	1		2	1				
CU18	1031+42	24	145	1031+40.8	64.9’ RT	2012.5	1031+42.6	79.8’ LT	2010.6					145	13			2	1				
CUD19A	1070+80			1071+15.7	98.3’ RT	1976.0	1070+49.7	85.0’ LT	1981.0	195					33		60	2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CUD19	1070+92	36	193												33								
CU20	1111+66	24	85	1111+67.1	50.8’ RT	2036.7	1111+64.6	70.05’ LT	2029.6					121	11			2	1				
CU21	1120+41			1120+03.7	73.2’ LT	2009.7	1120+77.2	77.9’ LT	2007.4				74		0					APPROACH CULVERT			
CU22	1125+15	24	125	1125+10.8	64.7’ RT	2002.5	1125+21.5	62.0’ LT	2002.1					128	12			2	1				
CUD23A	1150+05			1150+08.7	58.4’ LT	1908.4	1149+9606	81.3’ RT	1900.0	140					22		60	2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CUD23	1150+15	24	135												22								
CU24	1217+17	24													5	1		2					
CU25	1237+53	24	101	1237+54.9	46.2’ RT	1876.0	1237+51.4	54.9’ LT	1872.4					101	12			2	1				
CU26	1253+97	24	68	1253+98.0	29.5’ RT	1836.3	1253+96.3	38.8’ LT	1831.9					68	7			2	1				
CU27	1293+96	24	35	1293+79.0	41.6’ LT	1813.9	1294+12.6	42.3’ LT	1814.7				35		0					APPROACH CULVERT			
CU28	1299+23	24	120	1299+22.8	68.5’ RT	1794.5	1299+24.8	50.4’ LT	1808.9					120	18			2	1				
CU29	1323+54	24	25	1323+42.2	44.3’ LT	1864.3	1323+66.1	43.9’ LT	1865.0				25		0					APPROACH CULVERT			
CU30	1331+22	24	45	1331+13.3	42.0’ RT	1844.1	1331+30.3	83.6’ RT	1842.8				45		0					APPROACH CULVERT			
CU31	1337+52	24	119	1337+51.9	65.6’ RT	1811.5	1337+51.9	53.0’ LT	1816.5					119	16		30	2	1				
CU32	1338+09	24	123												14								
CU33	1351+94	24	45	1351+71.9	52.8’ RT	1823.6	1352+15.5	52.2’ RT	1823.6				45		0					APPROACH CULVERT			
CU34	1353+47	24	90	1353+46.8	51.6’ RT	1823.8	1353+46.5	50.1’ LT	1823.1					102	16			2	1				
CU35	1360+03	24	33	1359+87.3	43.2’ RT	1833.5	1360+19.0	42.8’ RT	1833.6				33		0					APPROACH CULVERT			
CUD36	1370+02	36	144												20								
CUD36A	1369+91			1369+90.7	63.3’ RT	1820.0	1369+93.2	80.2’ LT	1815.0					144	20			2	1	EMBANKMENT REPAIR, SEE SHEET E5			
CU37	1388+55	24	90	1388+55.0	48.6’ RT	1856.5	1388+55.0	41.2’ LT	1856.7					90	7			2					
CU38	1404+50	24													21	1		2		REMOVE EXPOSED 5’ OF OUTLET			
CU39	1414+63	24													6	1		2					
CU40	1424+43	24	142	1424+41.8	70.2’ RT	1832.8	1424+44.8	71.4’ LT	1833.8					142	15			2	1				
CU41	1445+38	24	109	1445+09.0	42.4’ RT	1859.7	1445+69.3	48.6’ LT	1857.4					109	11			2	1				
		SUB-TOTALS	4481	---	---	---	---	---	---	1043	194	0	340	1897	---	9	540	64	24				

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	E2	E16

CULVERT SUMMARY

LOC. NO.	STATION	202.0017.0000 REMOVAL OF CULVERT PIPE		INLET			OUTLET			602.0001.00XX SPP LENGTH (FT)		603.0001.00XX CSP LENGTH (FT)			CULVERT DEPTH (FT) SEE NOTE 14	603.2016.0000 CLEAN AND REPAIR CULVERT ENDS	611.0002.0000 RIPRAP, CY SHEET E6	613.0002.0000 CULVERT MARKER POSTS SHEET E3	616.0002.0050 THAW PIPE INSTALLATION SHEET E3	REMARKS
		DIAMETER (IN)	REMOVE (FT)	STATION	OFFSET	INVERT ELEVATION	STATION	OFFSET	INVERT ELEVATION	60" DIA.	72" DIA.	18" DIA.	24" DIA.	36" DIA.						
CU42	1448+03	24	63	1448+02.0	30.0' RT	1871.3	1448+04.9	32.7' LT	1870.0					63	6			2		
CU43	1452+31			1452+74.7	31.6' LT	1891.8	1451+87.6	75.0' LT	1883.0			97			5					APPROACH CULVERT
CU44	1464+53	24													9	1		2		
CU45	1471+65	24	51	1471+39.8	33.1' RT	1901.0	1471+90.7	33.3' RT	1900.7				51		0					APPROACH CULVERT
CU46	1475+03			1475+04.4	43.1' RT	1893.3	1475+02.2	66.2' LT	1885.5					109	12					
CU47	1480+06	24	99	1480+02.9	38.4' RT	1892.0	1480+09.9	59.7' LT	1885.1					99	10			2	1	
CU48	1488+54	24	67	1488+52.6	31.2' RT	1900.7	1488+55.2	35.9' LT	1897.5					67	8			2		
CU49	1500+05	24												7	7	1		2		ADDRESS GULLEY, SEE NOTE 15
CU50	1515+54	24	128	1515+49.9	63.0' RT	1888.6	1515+58.9	64.1' LT	1883.5					128	15		30	2		
CU51	1518+03	24													10	1		2		
CU52	1536+54	24													7	1		2		
		SUB-TOTALS	408	--	--	--	--	--	--	0	0	97	51	466	--	4	30	16	1	
		TOTALS	3846	--	--	--	--	--	--	1043	195	97	391	2363	--	13	570	84	25	

GENERAL CULVERT NOTES

1. STATIONING AND SKEW FOR CULVERTS ARE APPROXIMATE. STAKE CULVERTS TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.
2. CULVERT LENGTHS ARE APPROXIMATE AND SUBJECT TO FIELD ADJUSTMENTS BY THE ENGINEER.
3. WHEN INSTALLING SKEWED CULVERTS, ENSURE THE FINAL LENGTH IS DETERMINED OFF THE NEAR EDGE, NOT THE CENTERLINE OF THE CULVERT.
4. REMOVED CULVERTS, CULVERT MARKER POSTS, DEADMAN, AND THAW PIPES BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT AND DISPOSED OF AT NO ADDITIONAL COST.
5. DO NOT PLACE NEW CULVERTS UNTIL THE BEDDING HAS BEEN APPROVED BY THE ENGINEER, SEE SHEET E5 FOR DETAIL.
6. WHERE NEW CULVERT MARKER POSTS ARE TO BE INSTALLED, REMOVE AND DISPOSE OF THE EXISTING CULVERT MARKER POSTS. DISPOSAL OF OLD MARKER POSTS IS SUBSIDIARY TO PAY ITEM 613.0002.0000 CULVERT MARKER POSTS.
7. DITCH WORK AND RE-GRADING REQUIRED FOR NEW CULVERTS IS SUBSIDIARY TO THE 602 AND 603 PAY ITEMS. SEE SHEET E5 DETAILS FOR TRENCH BACKFILL AND BEDDING MATERIAL REQUIRED.
8. DEWATERING FOR CULVERT INSTALLATION WILL NOT BE MEASURED DIRECTLY FOR PAYMENT AND IS SUBSIDIARY TO THE 602 AND 603 PAY ITEMS.
9. DISPOSAL OF EXCESS EXCAVATION IS SUBSIDIARY.
10. INSTALL APPROACH CULVERTS IN ACCORDANCE WITH STANDARD DRAWING D-01.02 INSTALLATION TYPE "B",
11. INSTALL THAW PIPES IN ACCORDANCE WITH SHEET E3.
12. INSTALL CULVERTS WITH A MINIMUM CAMBER EQUAL TO 1% OF THE LENGTH OF THE PIPE, OR AS DIRECTED BY THE ENGINEER.
13. INSTALL RIPRAP APRONS IN ACCORDANCE WITH SHEET E6. WHERE APRONS ARE NOT SPECIFIED, MINIMIZE DISTURBANCE TO THE VEGETATIVE MAT AROUND THE CULVERT ENDS, BUT CLEAR AND GRADE AS NEEDED TO ENSURE PROPER DRAINAGE.
14. CONSTRUCTION OF TEMPORARY DIVERSIONS FOR ALL CULVERTS EXCEEDING A 10 FT CULVERT DEPTH, AS SPECIFIED IN THE CULVERT SUMMARY TABLE, WILL BE PAID UNDER ITEM 643.2001.0000 TEMPORARY DIVERSIONS.
15. FILL GULLY WITH EXCESS EXCAVATION AND CONSTRUCT NEW CHANNEL TO CONVEY WATER OVER EROSION AREA
16. H&H SUMMARY TABLES ARE PROVIDED FOR CULVERTS SIZED 48" AND LARGER FOR WATER CONVEYANCE.

HYDROLOGIC & HYDRAULIC SUMMARY					
UNNAMED CREEK - STATION 712+79.9 - MP1235.8					
BASIN AREA (SQ. MI)	QFISH (CFS)	Q2 (CFS)	Q5 (CFS)	Q50 (CFS)	Q100 (CFS)
0.3	--	0.8	2.5	37	58.9
HEADWATER ELEVATION @Q50 IS 2068.7 FT, HEADWATER ELEVATION @Q100 IS 2069.8 FT					
ROAD OVERTOPS AT APPROXIMATELY 203 CFS, H _w /D @ 1 = 49 CFS					
CULVERT PURPOSE: CROSS DRAINAGE					

HYDROLOGIC & HYDRAULIC SUMMARY					
UNNAMED CREEK - STATION 736+27 - MP1235.9					
BASIN AREA (SQ. MI)	QFISH (CFS)	Q2 (CFS)	Q5 (CFS)	Q50 (CFS)	Q100 (CFS)
3.4	--	34.6	65.9	159	192
HEADWATER ELEVATION @Q50 IS 2031.2 FT, HEADWATER ELEVATION @Q100 IS 2034.9 FT					
ROAD OVERTOPS AT APPROXIMATELY 329.5 CFS, H _w /D @ 1 = 104 CFS					
CULVERT PURPOSE: CROSS DRAINAGE/ENHANCED HYDRAULIC DESIGN					

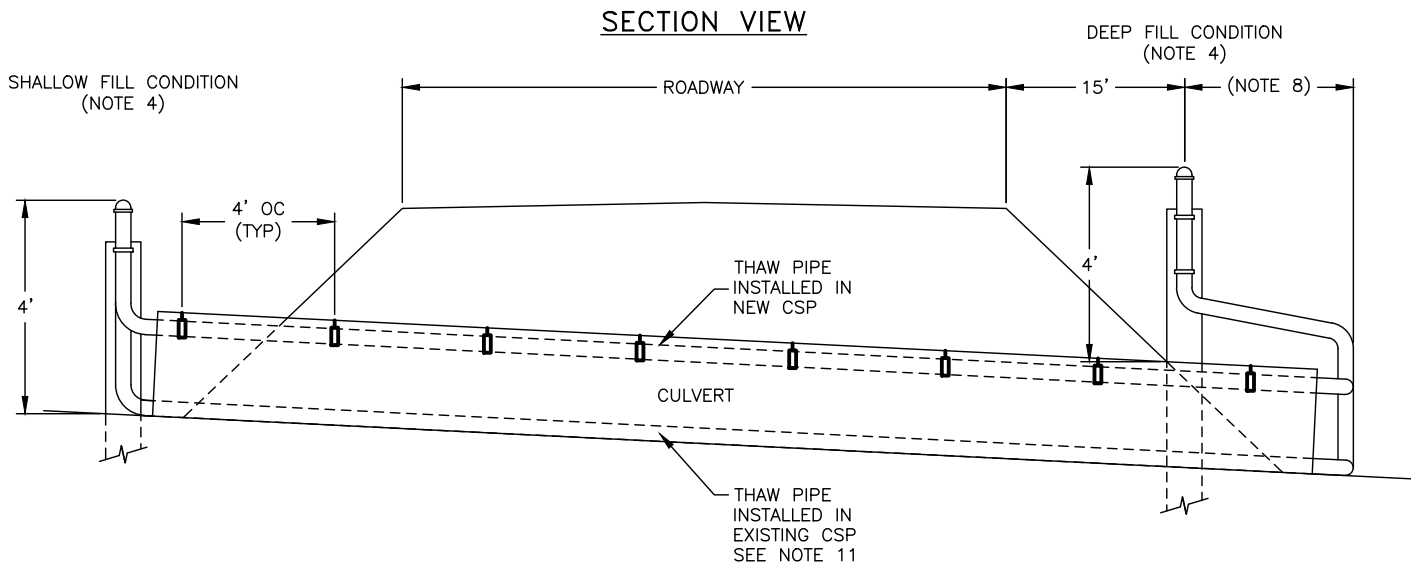
HYDROLOGIC & HYDRAULIC SUMMARY					
UNNAMED CREEK - STATION 763+69 - MP1236.8					
BASIN AREA (SQ. MI)	QFISH (CFS)	Q2 (CFS)	Q5 (CFS)	Q50 (CFS)	Q100 (CFS)
0.5	--	7.2	14.8	39.3	48.5
HEADWATER ELEVATION @Q50 IS 2054.9 FT, HEADWATER ELEVATION @Q100 IS 2055.4 FT					
ROAD OVERTOPS AT APPROXIMATELY 195 CFS, Hw/D @ 1 = 45 CFS					
CULVERT PURPOSE: CROSS DRAINAGE					

HYDROLOGIC & HYDRAULIC SUMMARY					
UNNAMED CREEK - STATION 1070+91 - MP1242.7					
BASIN AREA (SQ. MI)	QFISH (CFS)	Q2 (CFS)	Q5 (CFS)	Q50 (CFS)	Q100 (CFS)
0.2	--	0.8	2.5	37	58.9
HEADWATER ELEVATION @Q50 IS 1984.8 FT, HEADWATER ELEVATION @Q100 IS 1986.1 FT					
ROAD OVERTOPS AT APPROXIMATELY 227 CFS, Hw/D @ 1 = 46 CFS					
CULVERT PURPOSE: CROSS DRAINAGE					

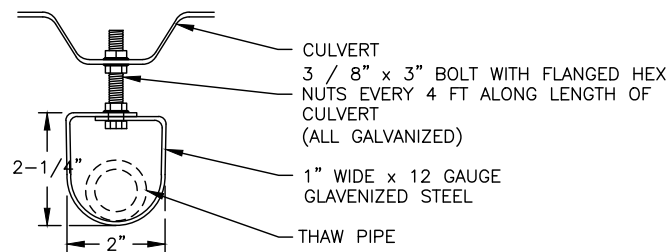
CULVERT SUMMARY
2 OF 2

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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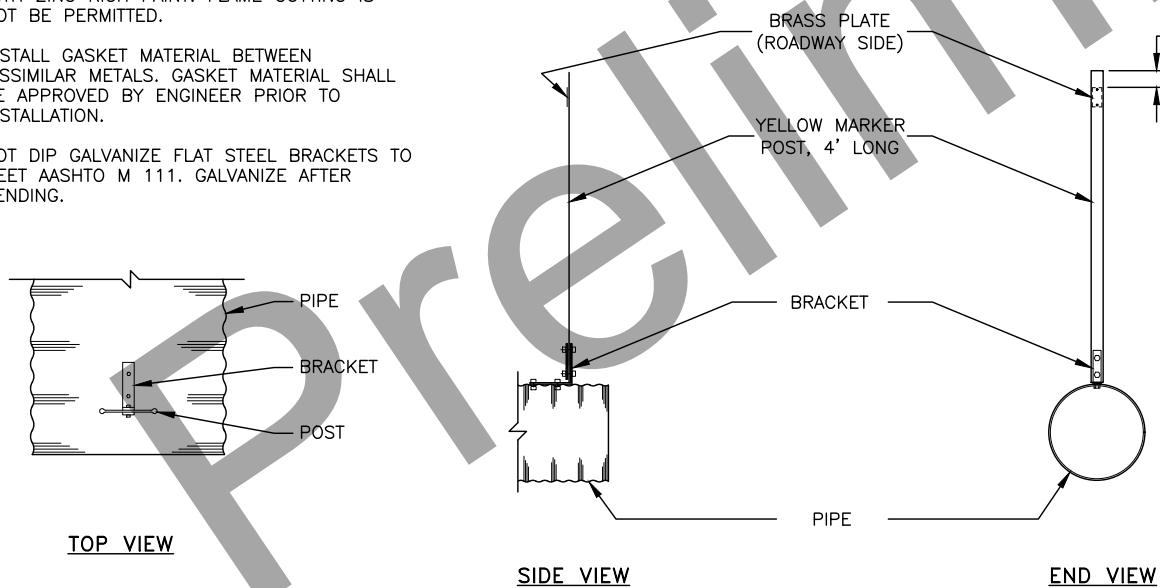


THAW PIPE HANGER DETAIL

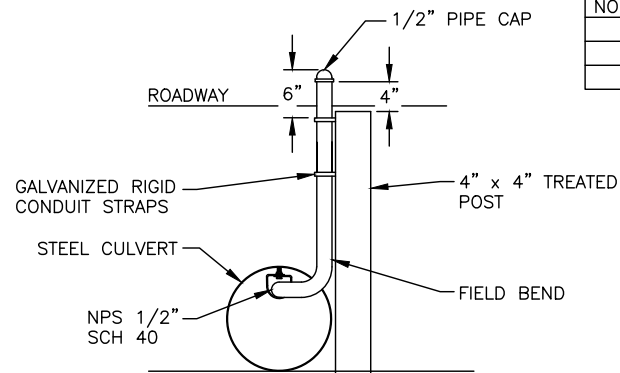


CULVERT MARKER POSTS NOTES:

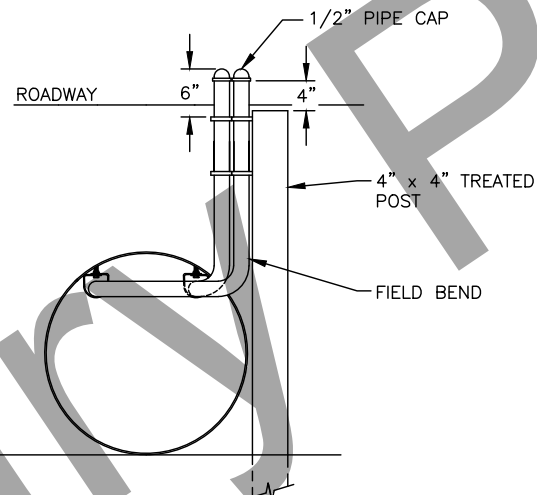
1. WORK WILL BE PAID UNDER THE ITEM 613.0002.0000
2. INSTALL CULVERT MARKER POSTS AS SCHEDULED IN CULVERT SUMMARY SHEETS E1-E4.
3. PILOT DRILL ALL BOLT HOLES. COAT HOLES WITH ZINC RICH PAINT. FLAME CUTTING IS NOT BE PERMITTED.
4. INSTALL GASKET MATERIAL BETWEEN DISSIMILAR METALS. GASKET MATERIAL SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
5. HOT DIP GALVANIZE FLAT STEEL BRACKETS TO MEET AASHTO M 111. GALVANIZE AFTER BENDING.



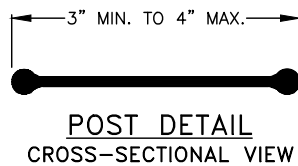
CULVERT MARKER POST DETAIL



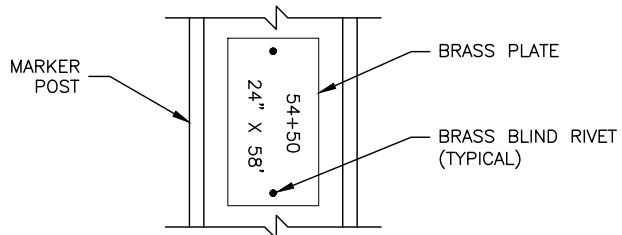
SINGLE STAND THAW PIPE
36" & 48" CULVERTS



DOUBLE STAND PIPE
60" & 84" CULVERTS



POST DETAIL
CROSS-SECTIONAL VIEW

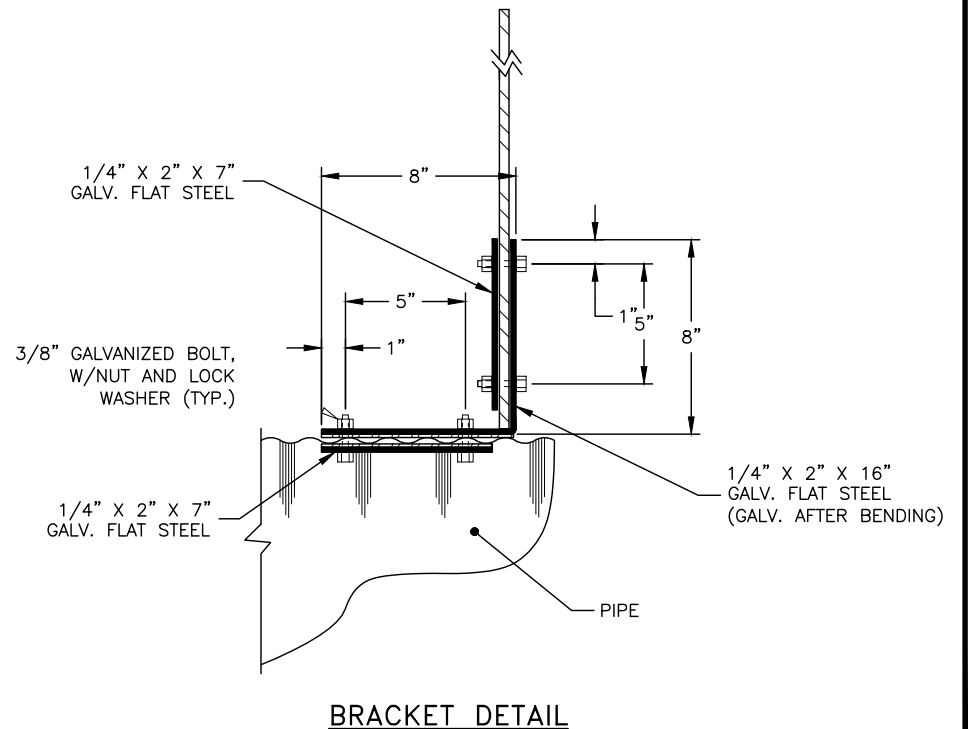


STAMP STATION AND PIPE SIZE, USING 3/8" HIGH MINIMUM LETTERS INTO A 2"x4"x 0.064" THICK BRASS PLATE. FASTEN PLATE TO THE SIDE FACING THE ROADWAY WITH TWO 1/8" BRASS BLIND RIVETS.

BRASS PLATE DETAIL

THAW PIPE NOTES

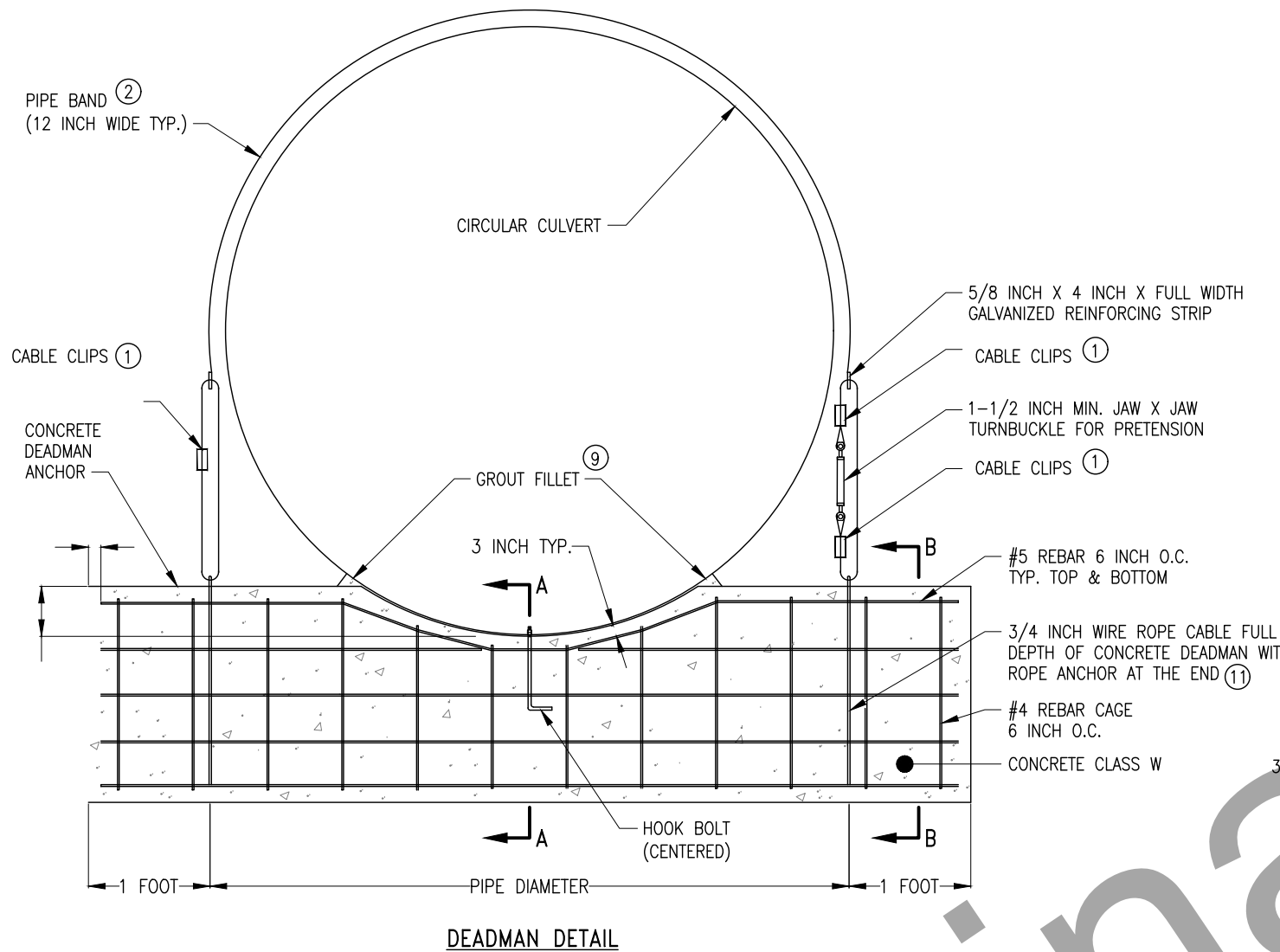
1. WORK WILL BE PAID UNDER THE ITEM 616.0002.0050
2. DO NOT LOCATE ANY JOINTS OR THAW PIPE COUPLINGS WITHIN 30 INCHES OF THE CULVERT ENDS.
3. ENSURE THAW PIPES ARE WATER-TIGHT. SEAL ANY THAW PIPE JOINTS WITH AN APPROVED SEALING COMPOUND EXCEPT THE END CAPS.
4. DO NOT KINK THAW PIPES AT BENDS PROVIDE NO GREATER THAN 12" BEND RADIUS FITTINGS MAY BE INSTALLED OUTSIDE OF CULVERT IF AT LEAST 6" PAST CULVERT ENDS.
5. THE FILL CONDITION (SHALLOW OR DEEP) SHALL BE AS APPROVED BY THE ENGINEER. GENERALLY THE DEEP FILL CONDITION REQUIRES AN ADDITIONAL FIELD BEND, TO ALLOW A LONGER PIPE RUN FOR ACCESSIBILITY.
6. INSTALL A PRESSURE TREATED SUPPORT POSTS FOR EACH THAW PIPE SETUP. WHERE TWO THAW PIPES ARE CALLED FOR INSTALL BOTH THAW PIPES ON SINGLE POST, AS APPROVED BY THE ENGINEER.
7. THE LENGTH OF A TREATED SUPPORT POST IS APPROXIMATELY 7.5 FEET. MAINTAIN A MINIMUM EMBEDMENT DEPTH OF 4 FEET.
8. FASTEN THAW PIPES TO POSTS WITH RIGID CONDUIT STRAPS. SECURE STRAPS WITH GALVANIZED LAG SCREWS FASTENED ON 1 FOOT CENTERS.
9. WHEN UNSUPPORTED PIPE LENGTH EXCEEDS 5 FEET, INSTALL A SECOND SUPPORT POST TO SUPPORT THE BEND RUN. THE LOCATION AND CONFIGURATION OF THE SECOND SUPPORT POST WILL BE AS DIRECTED BY THE ENGINEER.
10. FILL ALL THAW PIPES WITH A MIX OF PROPYLENE GLYCOL ANTIFREEZE AND WATER TO PROTECT TO MINUS 50° C, THEN CAP THE THAW PIPE.
11. ALL LABOR AND MATERIALS REQUIRED TO INSTALL THE THAW PIPE AND SUPPORT POSTS ARE SUBSIDIARY TO ITEM 616(2) 1/2 INCH DIAMETER THAW PIPE.
12. FOR EXISTING CULVERTS, INSTALL NEW THAW PIPE AT BOTTOM OF CULVERT AS APPROVED BY THE ENGINEER



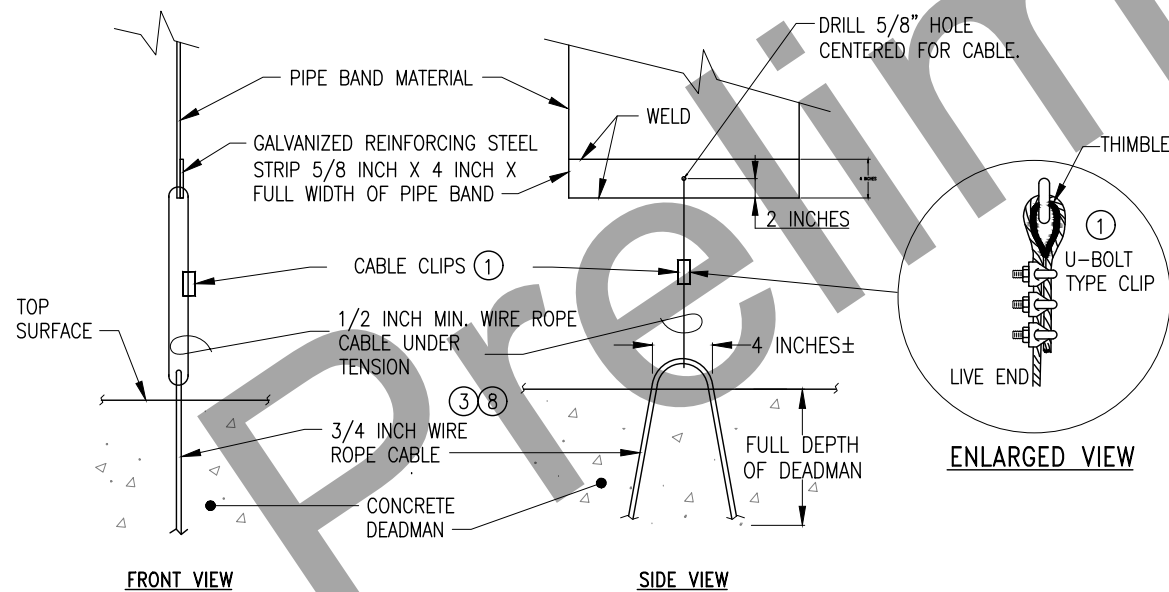
BRACKET DETAIL

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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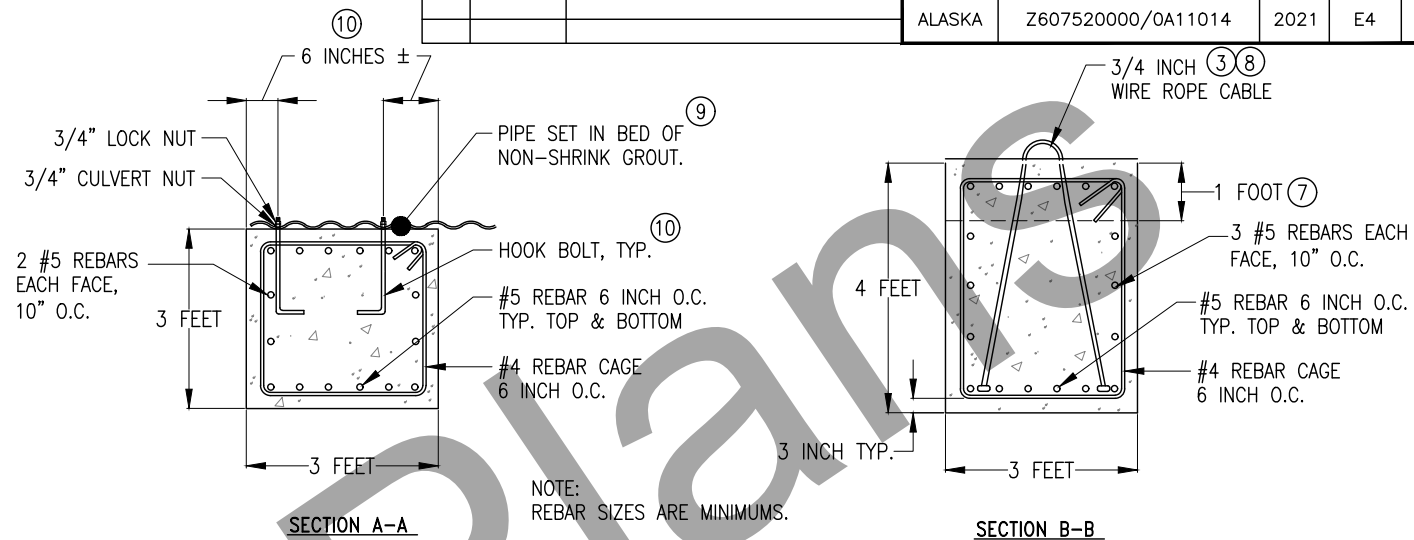
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	E4	E16



DEADMAN DETAIL



PIPE BAND DETAILS



CONCRETE DEADMAN ANCHOR DETAILS

NOTES:

- ① IF DROP FORGED U-BOLT TYPE CLIPS ARE USED, THEY SHOULD BE INSTALLED USING THE FOLLOWING:

MIN. AMT. WIRE ROPE TO TURN BACK OR SPLICE (INCHES): $11 \frac{1}{2}$
TORQUE REQUIRED TO REACH HOLDING POWER (FT-LBS): 65
SPACING: DIAMETER OF THE ROPE (INCHES) TIMES 6. THE BASE OF THE CLAMPS AND NUTS MUST BE ON THE LIVE END OF THE WIRE

- ② THE LENGTH OF THE PIPE BANDS SHALL BE A MINIMUM OF HALF THE CIRCUMFERENCE OF THE ROUND CULVERT OR SHALL EXTEND TO WITHIN 6" OF THE SPRINGLINE ON PIPE ARCH CULVERT. THE PIPE BANDS SHALL BE A MINIMUM THICKNESS OF 1/16" GALVANIZED ASTM A1011 SS GRADE 36 OR MINIMUM THICKNESS 0.109" GALVANIZED AASHTO M218. THE REINFORCING STRIP SHALL BE GALVANIZED ASTM A36.

- ③ WIRE ROPE SHALL BE 6X19 IWRC, EIPS & GALVANIZED AND MEET AASHTO M30 TYPE II REQUIREMENTS OR APPROVED EQUAL.

- ④ ALL HARDWARE SHALL BE GALVANIZED TO MEET AASHTO M232

- ⑤ CLASS W CONCRETE SHALL BE USED TO CONSTRUCT THE CONCRETE DEADMAN ANCHOR. REINFORCEMENT SHALL BE ASTM A615 GRADE 40.

- ⑥ ALL WORK AND MATERIALS REQUIRED FOR THE CONSTRUCTION AND INSTALLATION OF THE DEADMAN SHALL NOT BE MEASURED OR PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS.

- ⑦ CONCRETE DEADMAN SHALL BE CAST TO CONFORM TO THE OUTER RADIUS OF THE CULVERT.

- ⑧ USE A SPREADER BEAM/BAR WHEN LIFTING DEADMAN TO AVOID BENDING OF TIE-DOWN/LIFTING LOOP.

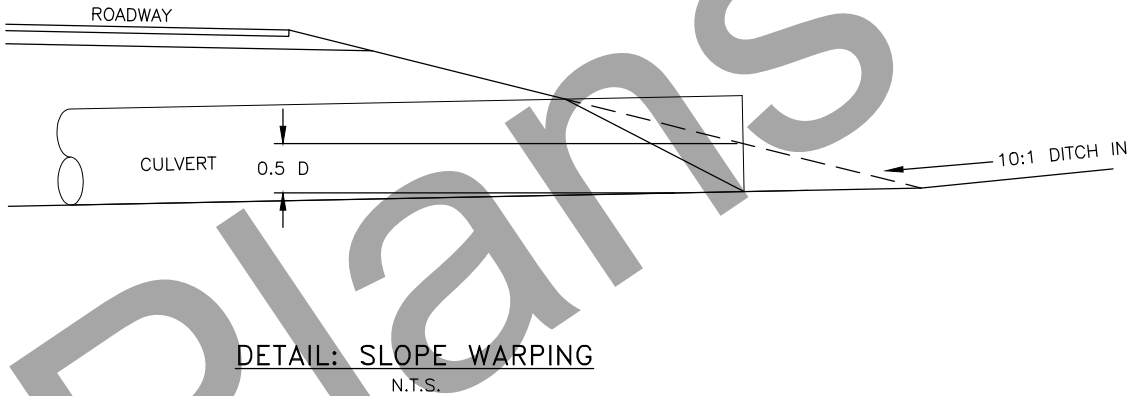
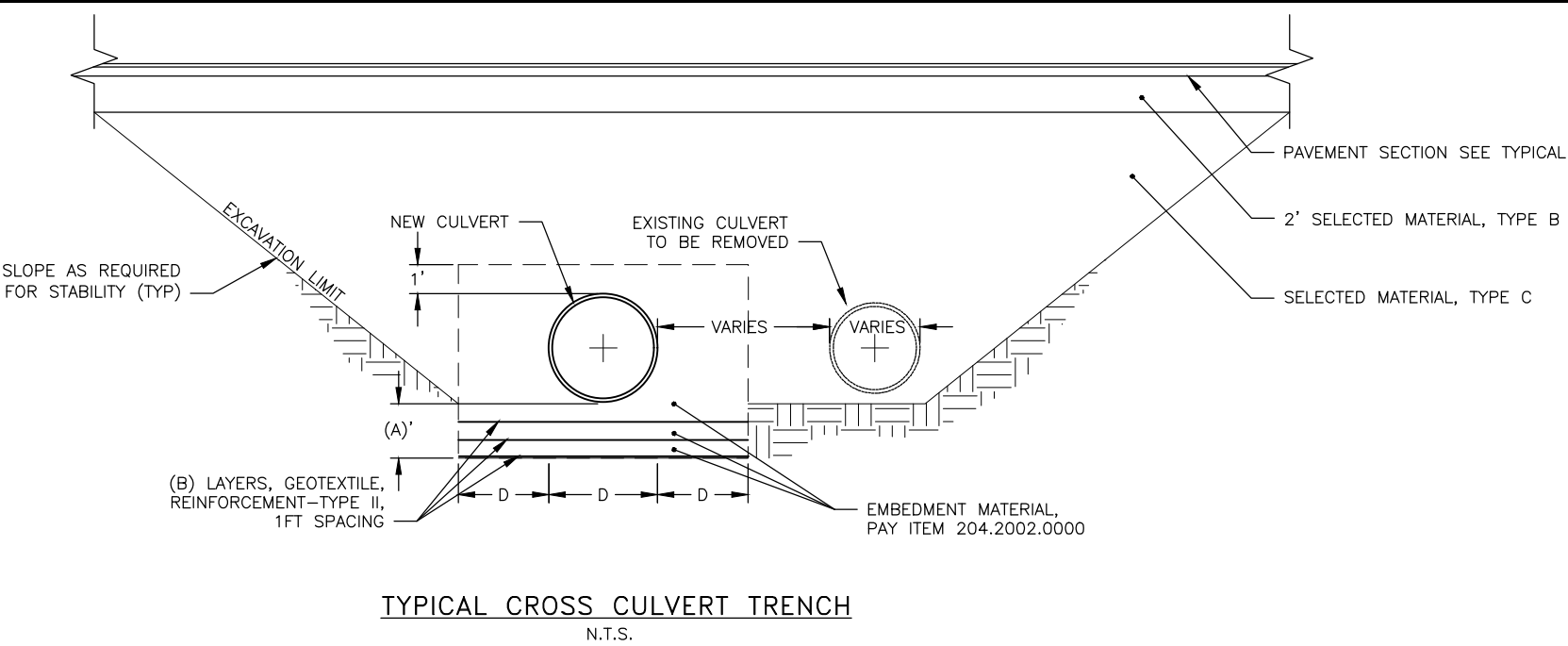
- ⑨ THE PIPE SHALL BE SET IN A BED OF NON-SHRINK GROUT OF SUFFICIENT THICKNESS TO FULLY FILL THE CORRUGATIONS AFTER TENSIONING OF THE ANCHOR BOLTS AND TIE-DOWN BAND. THE DEADMAN SURFACE SHALL BE PROPERLY PREPARED FOR BEST BONDING WITH GROUT - CLEAN, DUST FREE, SATURATED SURFACE DRY (SSD) CONDITION. BOTTOM OF PIPE SHALL BE AS CLEAN AND DUST FREE AS PRACTICABLE. GROUT SHALL BE FILLETED/CROWNED ALONG SIDES OF PIPE AT THE DEADMAN/PIPE SEAM IN ORDER TO REDUCE WATER INFILTRATION INTO THE GROUTED AREA.

- ⑩ PENETRATE CULVERT INVERT HOOK BOLTS IN A CORRUGATION VALLEY TO PROTECT NUT. ANCHOR BOLT HOLES SHALL BE DRILLED, NOT CUT WITH A TORCH, AND COATED WITH APPROPRIATE ZINC RICH PAINT PRIOR TO INSTALLATION. AFTER INSTALLATION AND ANCHOR BOLT NUTS HAVE BEEN TIGHTENED, COAT THE ANCHOR BOLT AND SURROUNDING AREA WITH ZINC RICH PAINT.

- ⑪ SEE STANDARD DRAWING G-00.02 SHEET 4 FOR ROPE ANCHOR DETAILS.

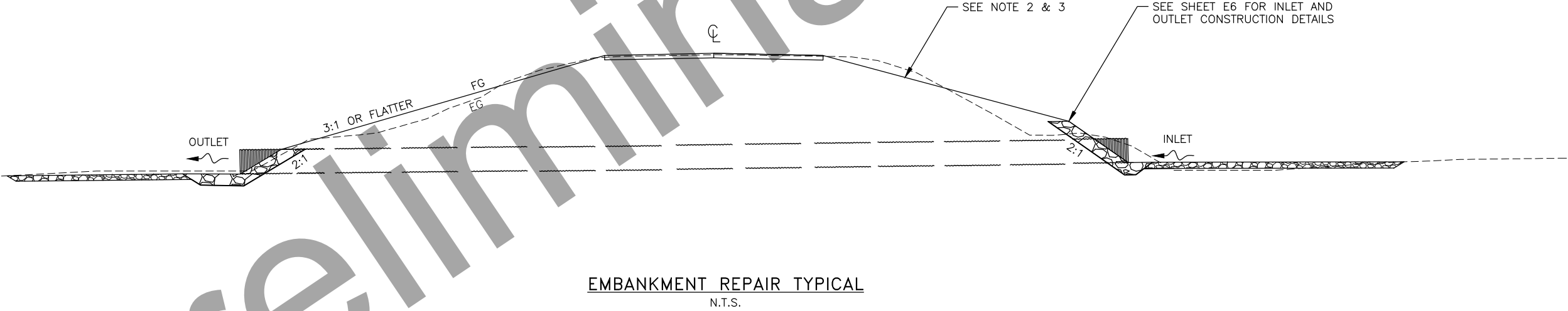
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	E5	E16



CULVERT SUB-EXCAVATION TABLE		
CULVERT DIAMETER	SUB-EXCAVATION DEPTH (A) (FT)	LAYERS OF FABRIC (B) (EACH)
> 36"	3	3
≤ 36"	2	2

*APPLIES ONLY TO CROSS-CULVERTS

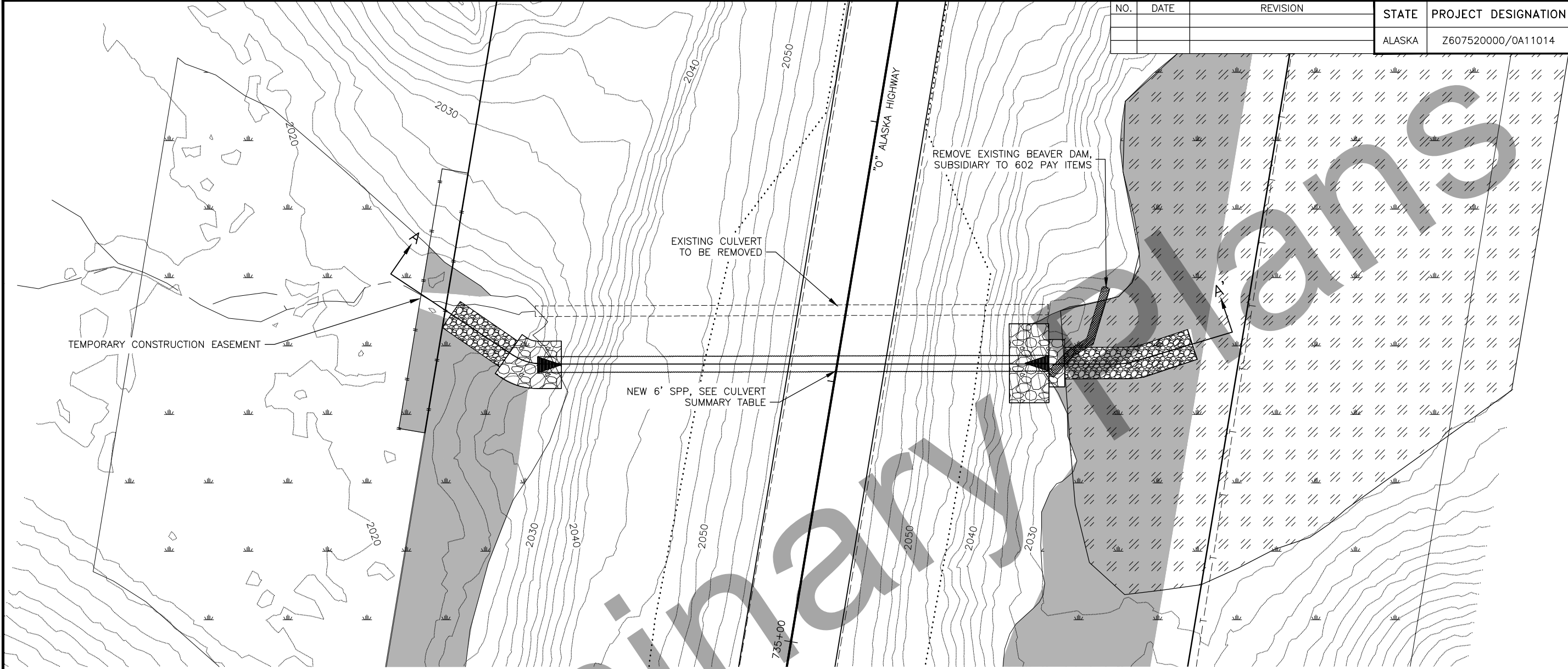


NOTES:

1. PROVIDE GEOTEXTILE REINFORCEMENT-TYPE II AND SUB-EXCAVATION AS SPECIFIED IN CULVERT SUB-EXCAVATION TABLE. CULVERT SUB-EXCAVATION WILL BE PAID UNER ITEM 203.0003.0000 UNCLASSIFIED EXCAVATION.
2. WHERE SPECIFIED IN THE CULVERT SUMMARY TABLE, OR AS DIRECTED BY THE ENGINEER, PERFORM REPAIRS TO THE EXISTING EMBANKMENT TO ACCOMMODATE NEW CULVERT LENGTHS. EMBANKMENT REPAIRS WILL EXTEND 50' ON EACH END OF THE CULVERT UNLESS DIRECTED OTHERWISE BY THE ENGINEER. MATCH EXISTING SLOPES OF UNDAMAGED PORTION OF EMBANKMENT.
3. EMBANKMENT REPAIRS WILL BE PAID UNDER 203.0001 "UNCLASSIFIED EXCAVATION"

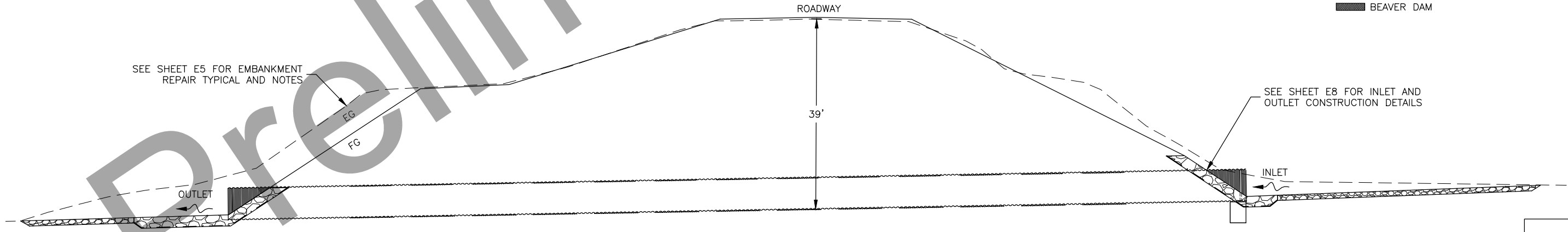
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	E7	E16



CUD04 PLAN

- LEGEND:
- WETLANDS
 - PERMITTED TEMPORARY IMPACTS
 - RIP RAP
 - DITCH LINING
 - PONDED WATER
 - BEAVER DAM

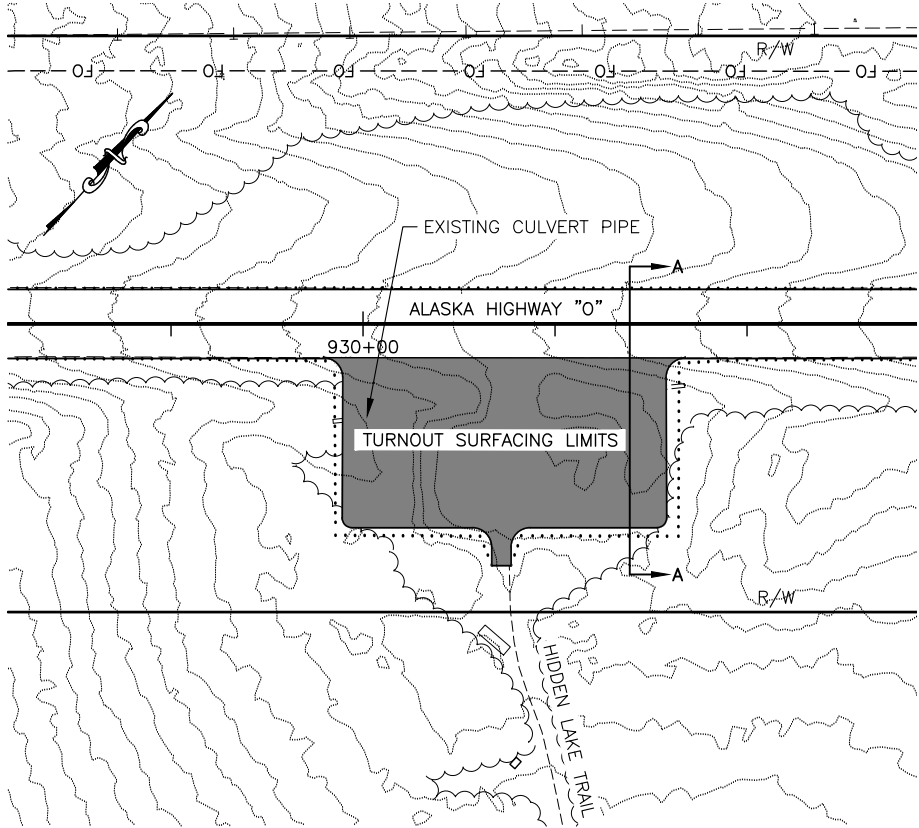


SECTION A-A'

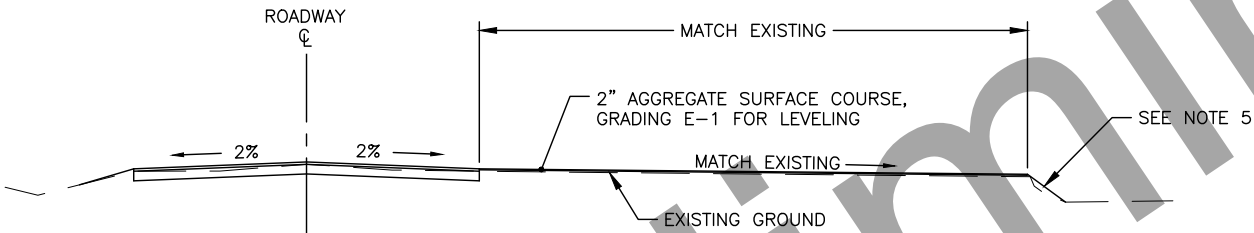
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PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	E9	E16



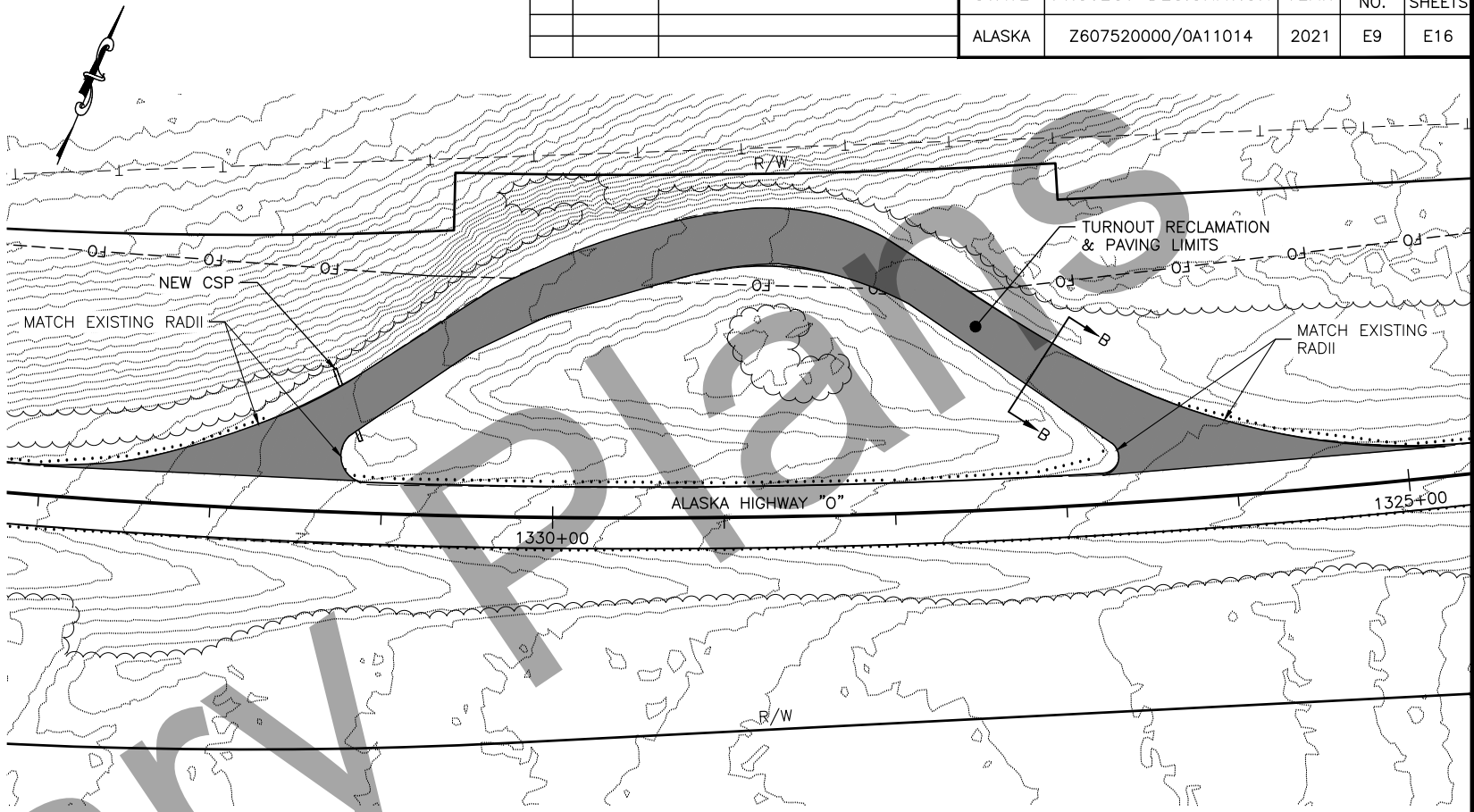
PLAN: MP 1240 TURNOUT – HIDDEN LAKE TRAIL



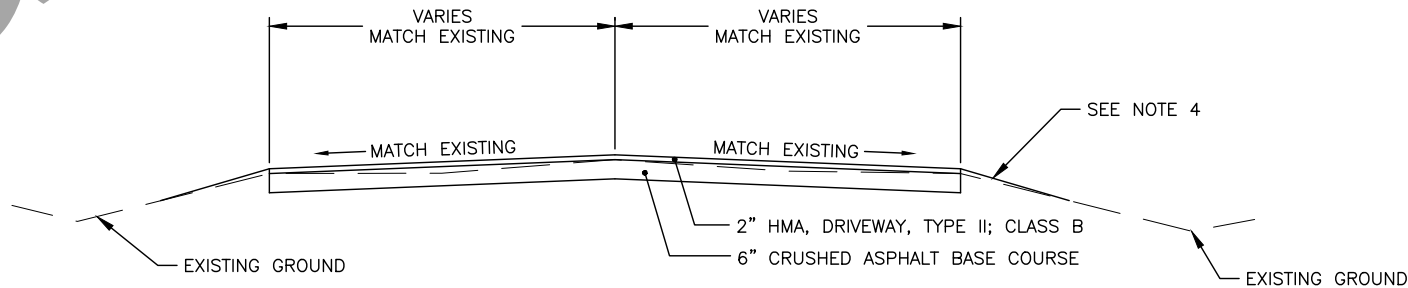
TYPICAL SECTION A-A: MP 1240 TURNOUT – HIDDEN LAKE TRAIL

MP 1240 TURNOUT NOTES:

1. REGRADE TURNOUT TO ENSURE POSITIVE DRAINAGE AS DIRECTED BY THE ENGINEER. THIS WORK IS SUBSIDIARY TO ITEM 301.0003.00E1.
2. SEED EMBANKMENT SLOPES FOLLOWING THE REQUIREMENTS OF SECTION 618 OF THE PROJECT SPECIFICATIONS.
3. PROTECT IN PLACE ALL SIGNS, TABLES, BOULDERS, AND OTHER LANDSCAPE FEATURES.
4. REPAIR SLOPES AS DIRECTED BY THE ENGINEER. REPAIR OF SLOPES IS SUBSIDIARY TO ITEM 203.0003.0000 UNCLASSIFIED EXCAVATION.
5. CONSTRUCT SHOULDER USING AGGREGATE BASE COURSE GRADING E-1.



PLAN: MP 1247.7 TURNOUT



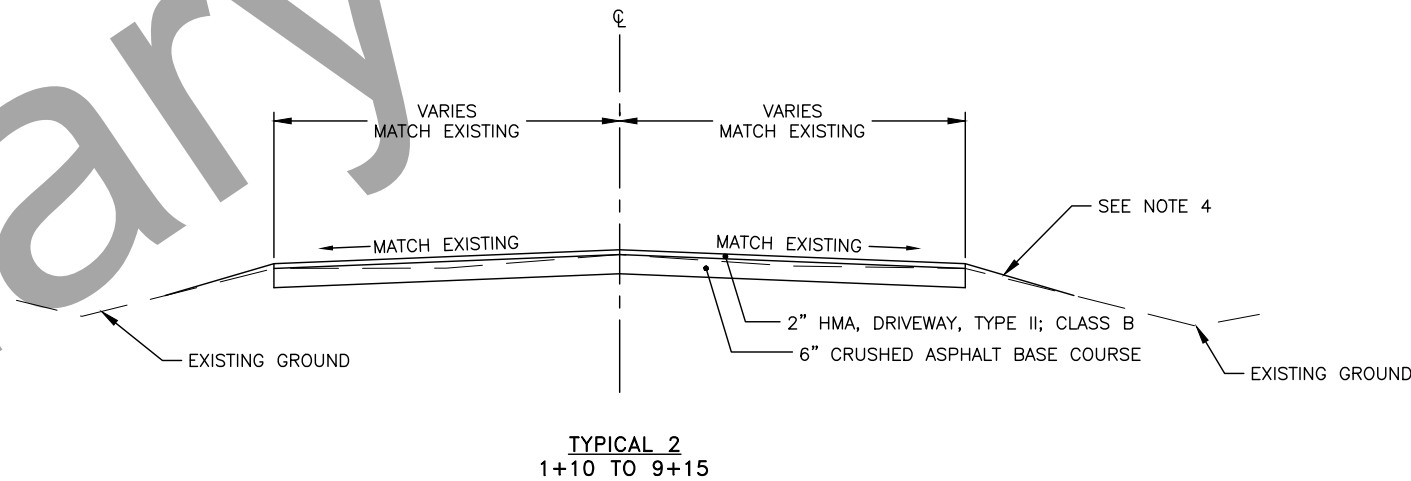
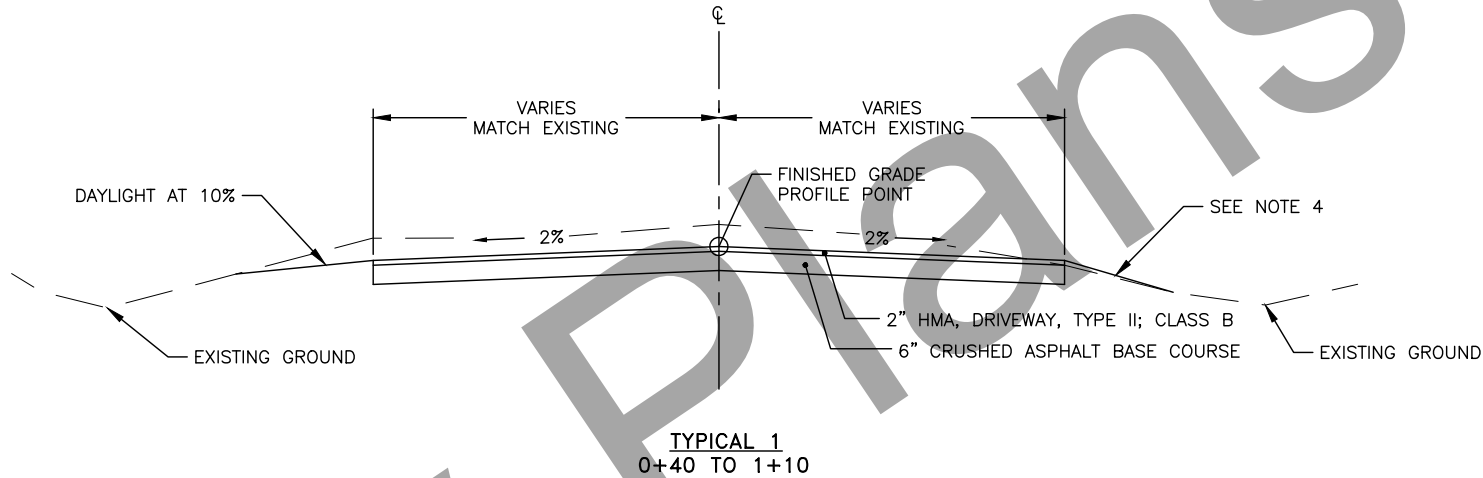
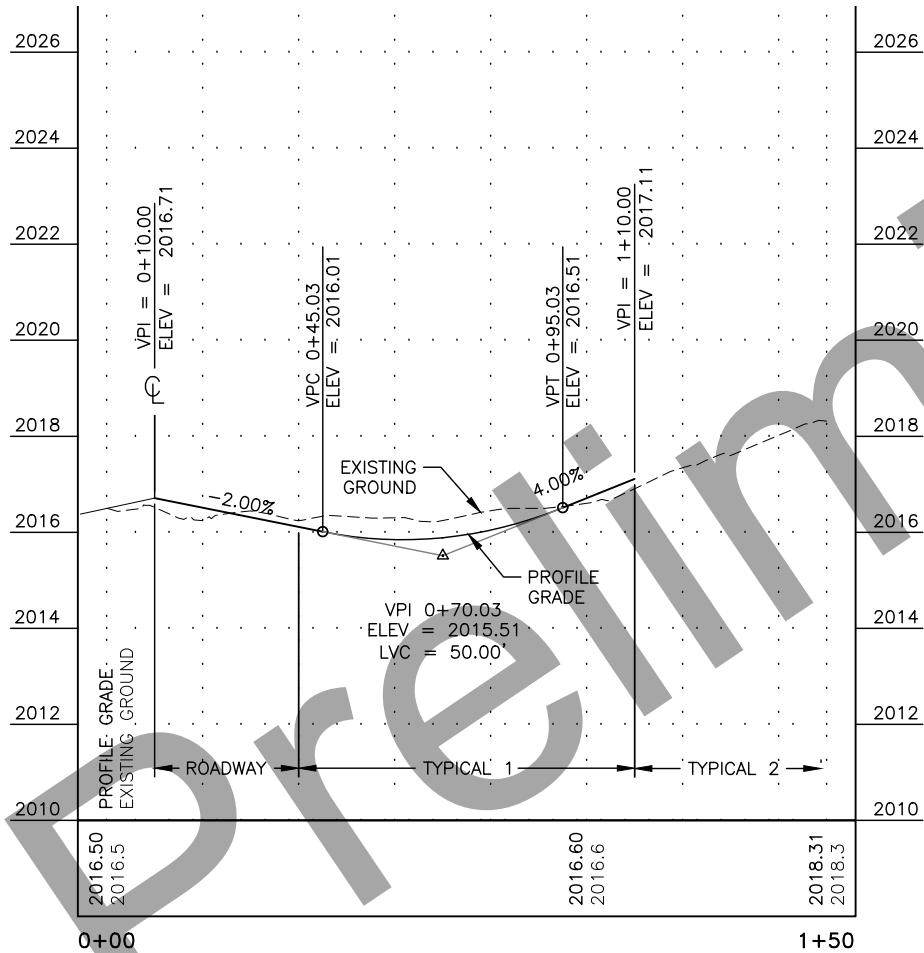
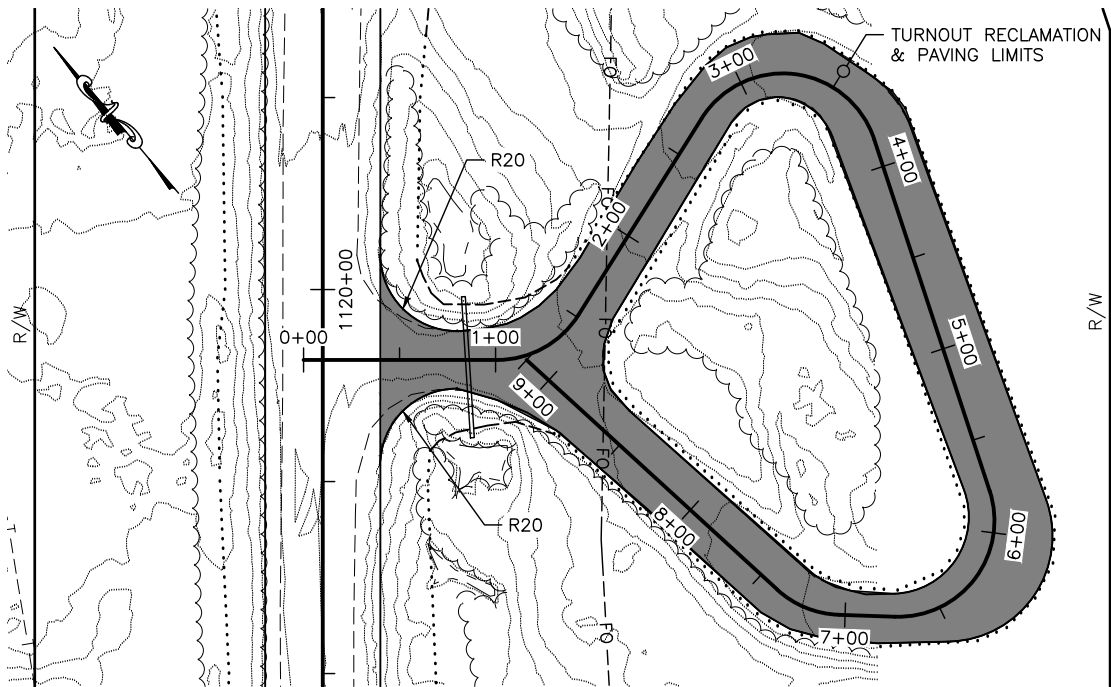
TYPICAL SECTION B-B: MP 1247.7 TURNOUT

MP 1247.7 TURNOUT NOTES:

1. REGRADE TURNOUT TO ENSURE POSITIVE DRAINAGE AS DIRECTED BY THE ENGINEER. THIS WORK IS SUBSIDIARY TO ITEM 308.0001.0000.
2. SEED EMBANKMENT SLOPES FOLLOWING THE REQUIREMENTS OF SECTION 618 OF THE PROJECT SPECIFICATIONS.
3. PROTECT IN PLACE ALL SIGNS, TABLES, BOULDERS, AND OTHER LANDSCAPE FEATURES.
4. CONSTRUCT SHOULDER USING CRUSHED AGGREGATE BASE COURSE.

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	Z607520000/OA11014	2021	E10	E16

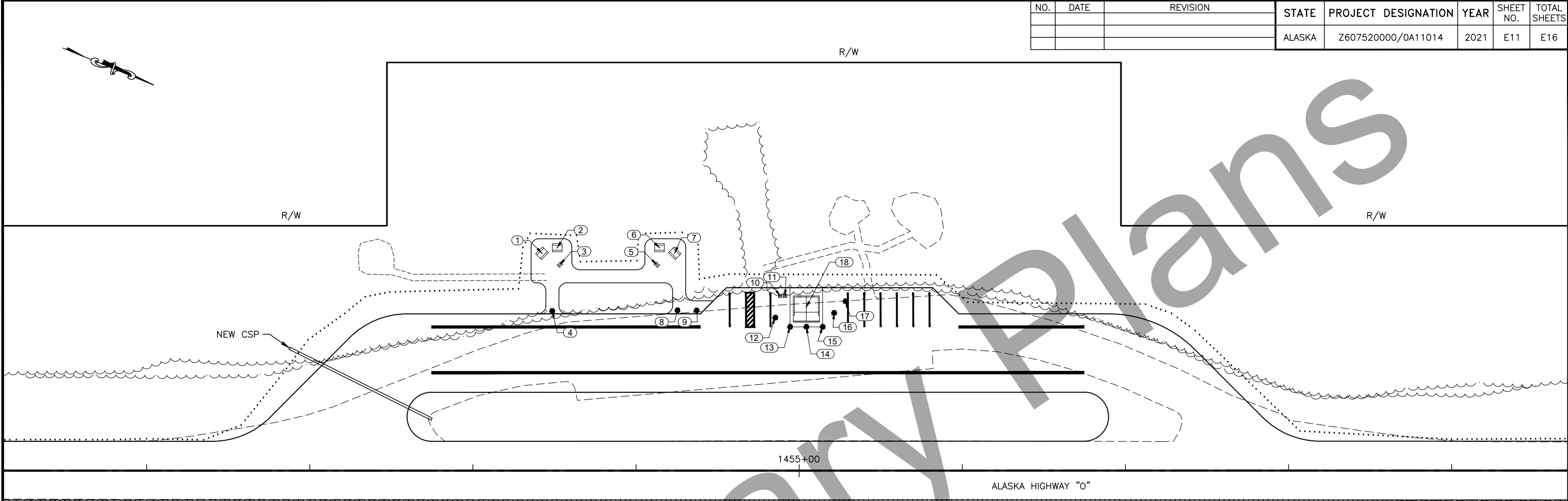


MP 1243.7 TURNOUT NOTES:

1. REGRADE TURNOUT TO ENSURE POSITIVE DRAINAGE AS DIRECTED BY THE ENGINEER. THIS WORK IS SUBSIDIARY TO ITEM 308.0001.0000.
2. SEED EMBANKMENT SLOPES FOLLOWING THE REQUIREMENTS OF SECTION 618 OF THE PROJECT SPECIFICATIONS.
3. PROTECT IN PLACE ALL SIGNS, TABLES, BOULDERS, AND OTHER LANDSCAPE FEATURES.
4. CONSTRUCT SHOULDER USING CRUSHED AGGREGATE BASE COURSE.

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	Z607520000/OA11014	2021	E11	E16



PLAN: MP 1250.3 SITE PLAN

MP 1250.3 REST AREA NOTES:

- SEE SHEET H3 FOR SIGNING AND STRIPING LAYOUT.
- REMOVE EXISTING PICNIC TABLES (3), FIREPLACES (5), STAIRS (2). THIS WORK IS PAID UNDER 202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

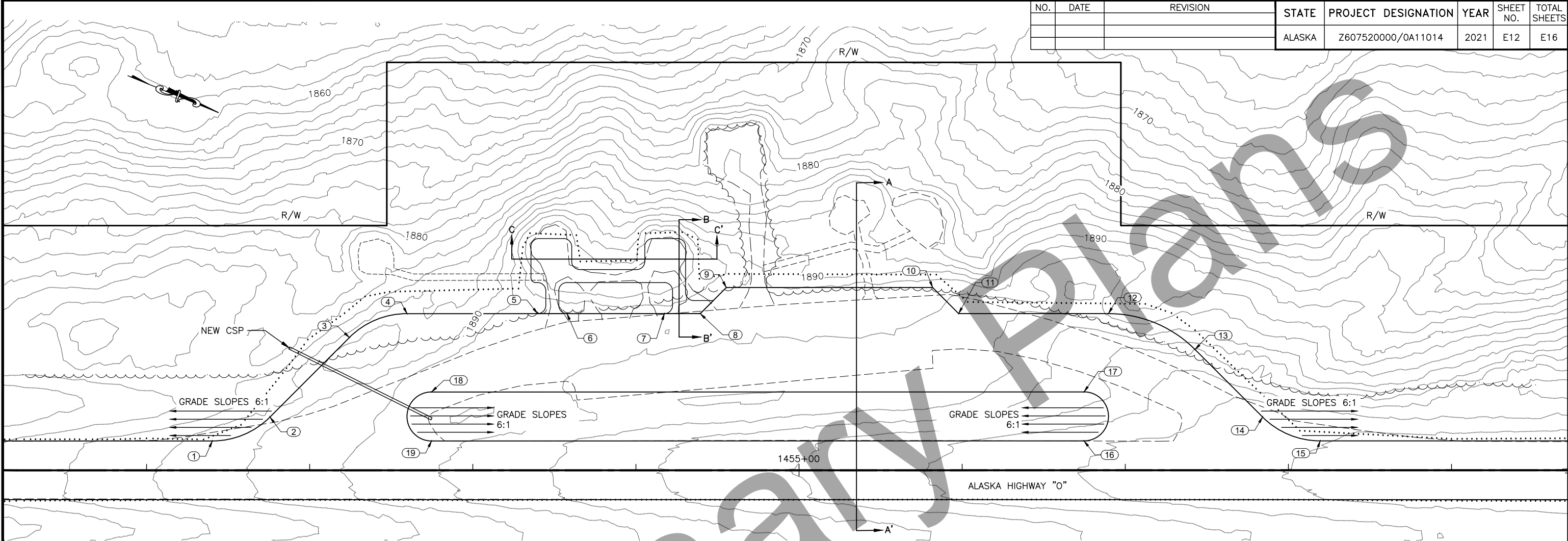
REST AREA FEATURES TABLE					
POINT	DESCRIPTION	STATION	OFFSET	ITEM NO.	PLAN SHEET
1	ACCESSIBLE PICNIC TABLE	1453+42.4	133.2' LT	622.2029.0000	E14
2	ACCESSIBLE PICNIC TABLE	1453+51.7	136.5' LT	622.2029.0000	E14
3	FIREPLACE, CLASS ROUND	1453+53.4	126.2' LT	622.0010.0000	
4	BARRIER ROCK	1453+48.7	97.7' LT	622.2027.0000	
5	FIREPLACE, CLASS ROUND	1454+12.7	126.2' LT	622.0010.0000	
6	ACCESSIBLE PICNIC TABLE	1454+14.4	136.5' LT	622.2029.0000	E14
7	ACCESSIBLE PICNIC TABLE	1454+23.7	133.2' LT	622.2029.0000	E14
8	BARRIER ROCK	1454+25.5	98.2' LT	622.2027.0000	
9	BARRIER ROCK	1454+37.2	98.0' LT	622.2027.0000	
10	TRASH CAN	1454+88.4	107.0' LT	622.2031.0000	
11	TRASH CAN	1454+91.4	107.0' LT	622.2031.0000	
12	BARRIER ROCK	1454+85.4	93.7' LT	622.2027.0000	
13	BARRIER ROCK	1454+94.4	88.0' LT	622.2027.0000	
14	BARRIER ROCK	1455+04.4	88.0' LT	622.2027.0000	
15	BARRIER ROCK	1455+14.4	88.0' LT	622.2027.0000	
16	BARRIER ROCK	1455+21.5	96.6' LT	622.2027.0000	
17	BARRIER ROCK	1455+28.5	103.7' LT	622.2027.0000	
18	DOUBLE CONCRETE VAULTED TOILET	1455+04	99.0' LT	622.2026.0000	E13

MP 1250.3 REST
AREA SITE PLAN

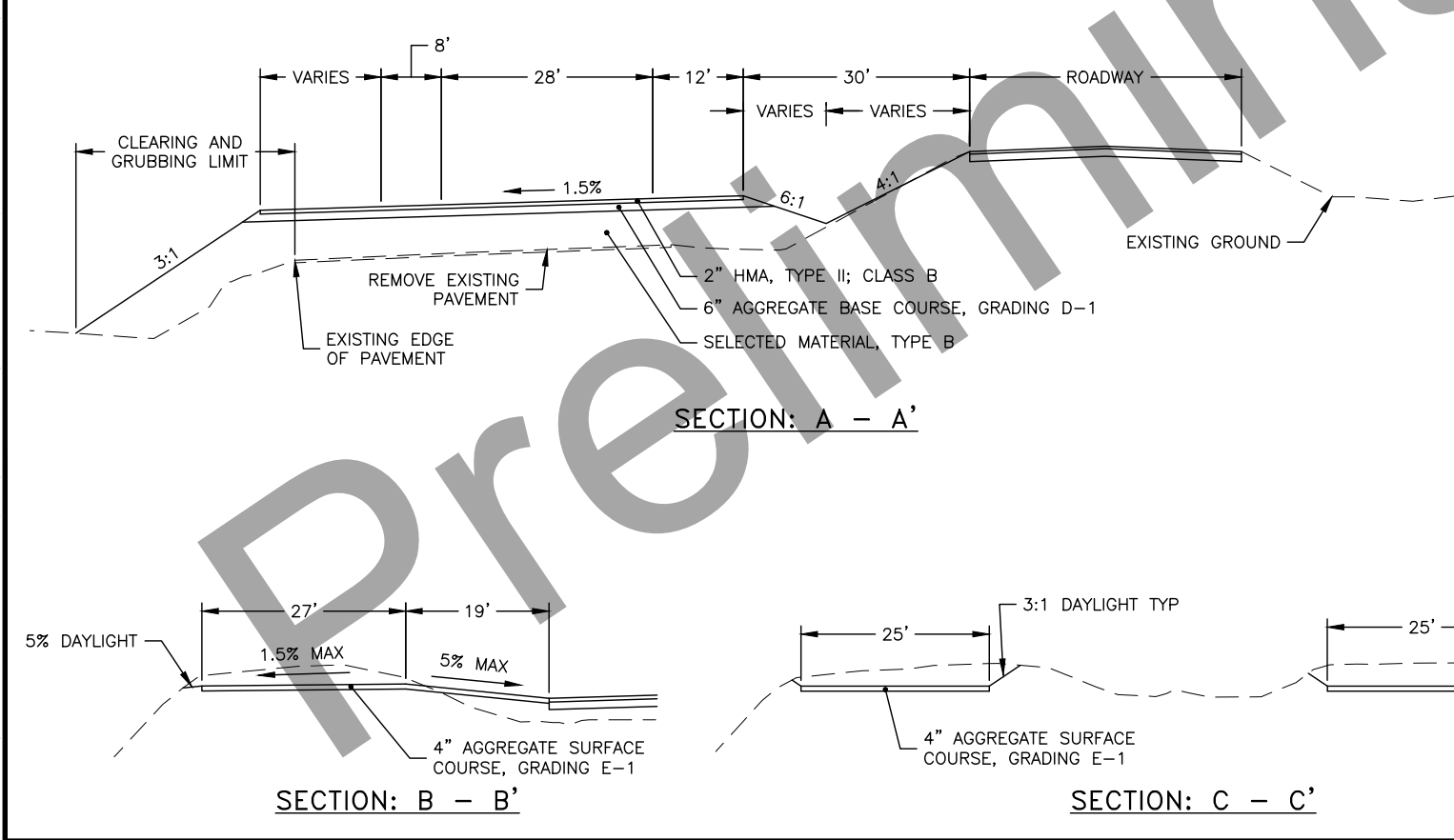
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PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 98503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	E12	E16



PLAN: MP 1250.3 REST AREA



REST AREA LAYOUT TABLE								
POINT	DESCRIPTION	STATION	OFFSET	ELEVATION	LENGTH	RADIUS	RADIUS PT. STATION	RADIUS PT. OFFSET
1	PC	1451+40.3	18.0' LT	1889.01	39.3'	50.0'	1451+40.3	68.0' LT
2	PC	1451+75.7	32.6' LT	1889.95	68.9'	-	-	-
3	PC	1452+24.4	81.4' LT	1891.61	39.3'	50.0'	1452+59.7	46.0' LT
4	PC	1452+59.7	96.0' LT	1892.15	80.0'	-	-	-
5	PI	1453+39.8	96.0' LT	1893.51	18.0'	-	-	-
6	PI	1453+57.8	96.0' LT	1893.83	59.7'	-	-	-
7	PI	1454+17.5	96.0' LT	1894.91	22.0'	-	-	-
8	PI	1454+39.5	96.0' LT	1895.30	22.6'	-	-	-
9	PI	1454+55.4	112.0' LT	1895.35	126.5'	-	-	-
10	PI	1455+81.9	112.0' LT	1897.71	22.6'	-	-	-
11	PI	1455+97.9	96.0' LT	1898.42	91.8'	-	-	-
12	PC	1456+89.7	96.0' LT	1901.82	58.9'	75.0'	1456+89.7	21.0' LT
13	PC	1457+42.8	74.0' LT	1903.21	58.5'	-	-	-
14	PC	1457+84.2	32.6' LT	1904.88	39.3'	50.0'	1458+19.5	68.0' LT
15	PC	1458+19.5	18.0' LT	1906.00	144.8'	-	-	-
16	PC	1456+74.7	18.0' LT	1903.61	47.1'	15.0'	1456+74.7	33.0' LT
17	PC	1456+74.7	48.0' LT	1902.20	400.0'	-	-	-
18	PC	1452+74.7	48.0' LT	1892.88	47.1'	15.0'	1452+74.7	33.0' LT
19	PC	1452+74.7	18.0' LT	1893.53				

MP 1250.3 REST AREA
GRADING AND LAYOUT

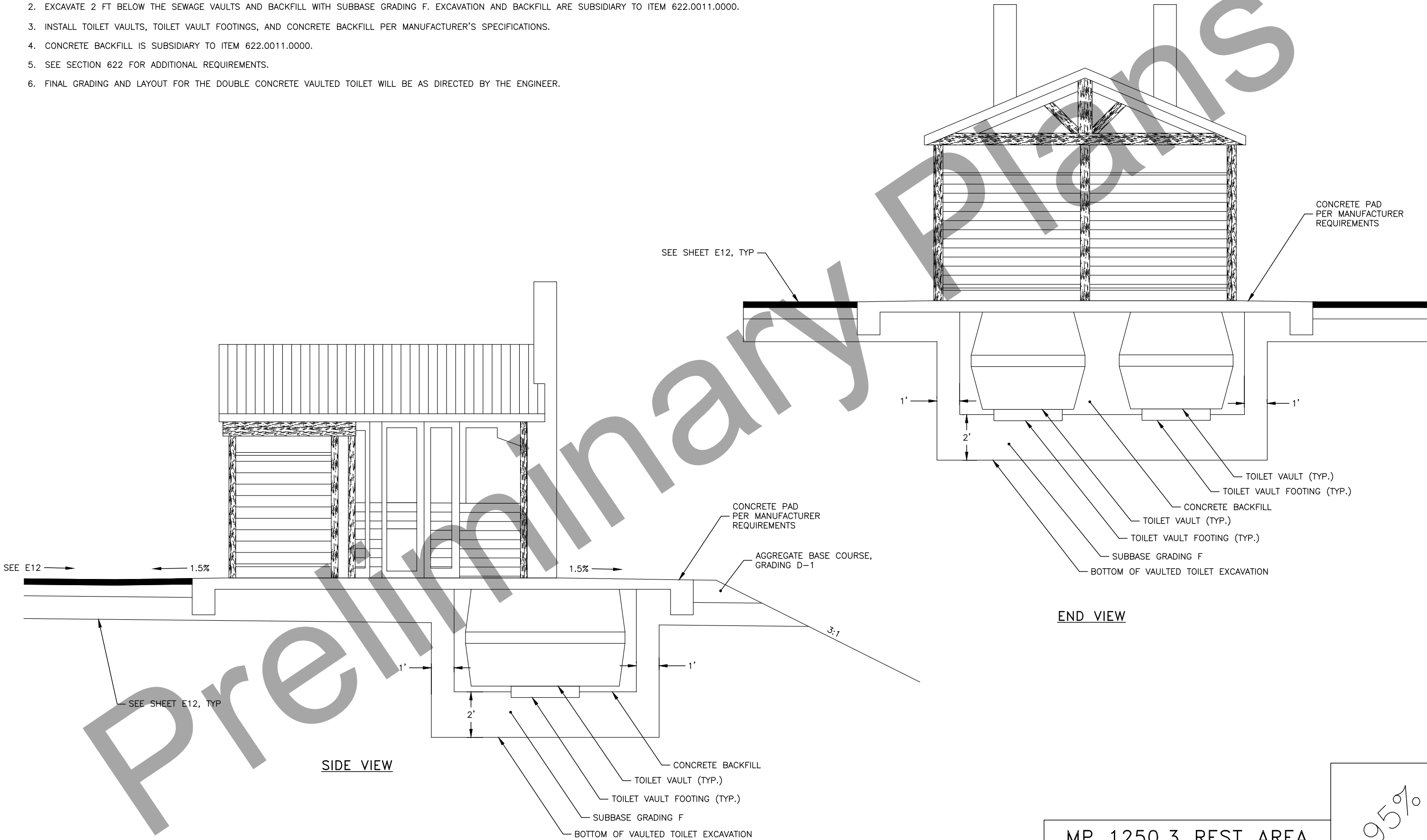
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PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 98503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	E13	E16

DETAIL NOTES:

- DRAWING IS NOT TO SCALE.
- EXCAVATE 2 FT BELOW THE SEWAGE VAULTS AND BACKFILL WITH SUBBASE GRADING F. EXCAVATION AND BACKFILL ARE SUBSIDIARY TO ITEM 622.0011.0000.
- INSTALL TOILET VAULTS, TOILET VAULT FOOTINGS, AND CONCRETE BACKFILL PER MANUFACTURER'S SPECIFICATIONS.
- CONCRETE BACKFILL IS SUBSIDIARY TO ITEM 622.0011.0000.
- SEE SECTION 622 FOR ADDITIONAL REQUIREMENTS.
- FINAL GRADING AND LAYOUT FOR THE DOUBLE CONCRETE VAULTED TOILET WILL BE AS DIRECTED BY THE ENGINEER.



MP 1250.3 REST AREA
DETAILS 1 OF 2

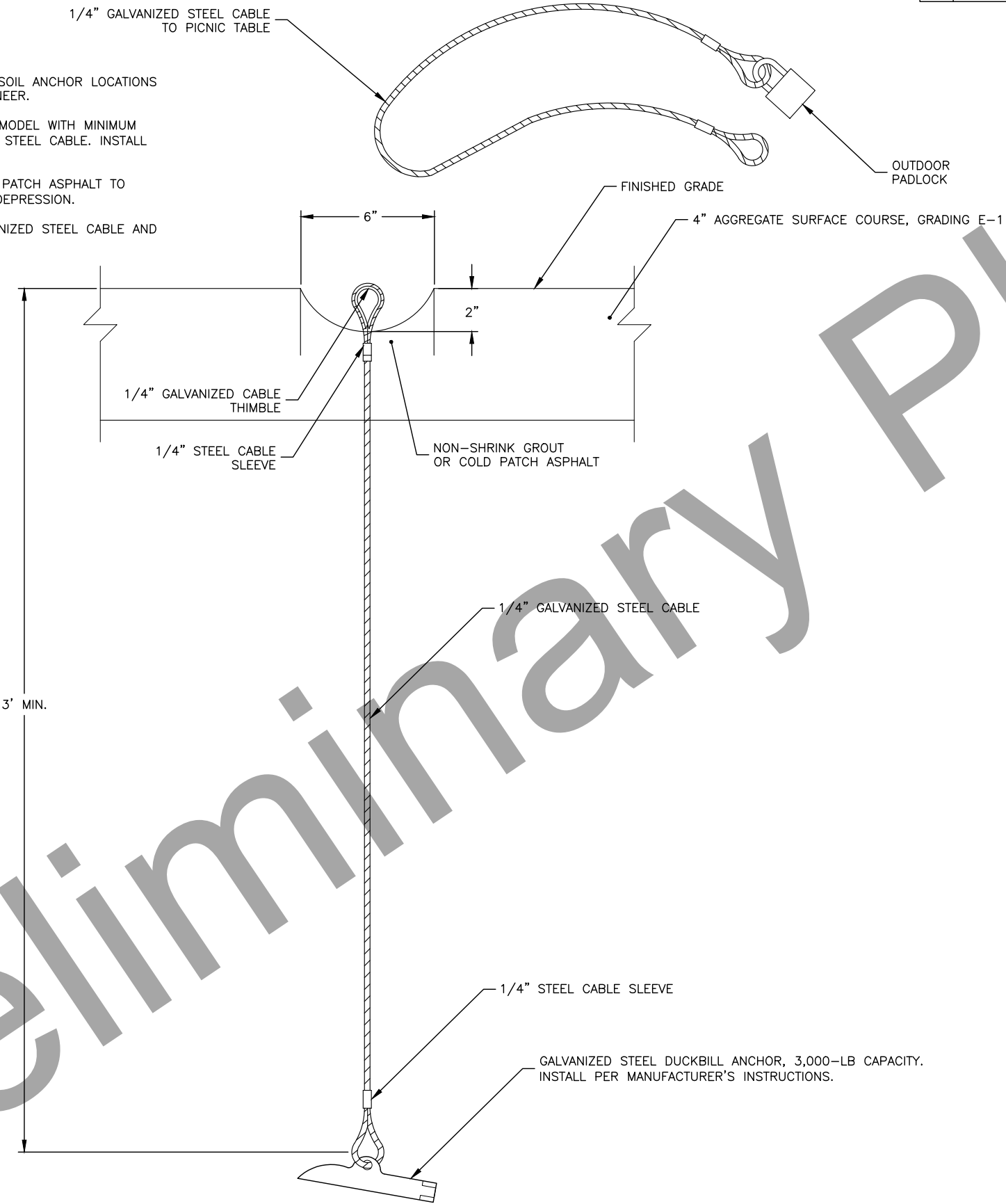
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PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	E14	E16

DETAIL NOTES:

- DRAWING IS NOT TO SCALE.
- INSTALL ONE SOIL ANCHOR BENEATH EACH PICNIC TABLE. EXACT SOIL ANCHOR LOCATIONS WILL BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER.
- USE GALVANIZED STEEL DUCKBILL ANCHORS OF THE SAME MAKE/MODEL WITH MINIMUM 3,000-LB CAPACITY, CAPABLE OF ACCOMMODATING MINIMUM 1/4" STEEL CABLE. INSTALL ANCHORS PER MANUFACTURER'S INSTRUCTIONS.
- SEAL EACH HOLE IN ASPHALT WITH NON-SHRINK GROUT OR COLD PATCH ASPHALT TO PREVENT WATER INFILTRATION. MAINTAIN 2" DEEP BOWL-SHAPED DEPRESSION.
- SECURE EACH PICNIC TABLE TO SOIL ANCHOR USING 1/4" GALVANIZED STEEL CABLE AND OUTDOOR PADLOCK.

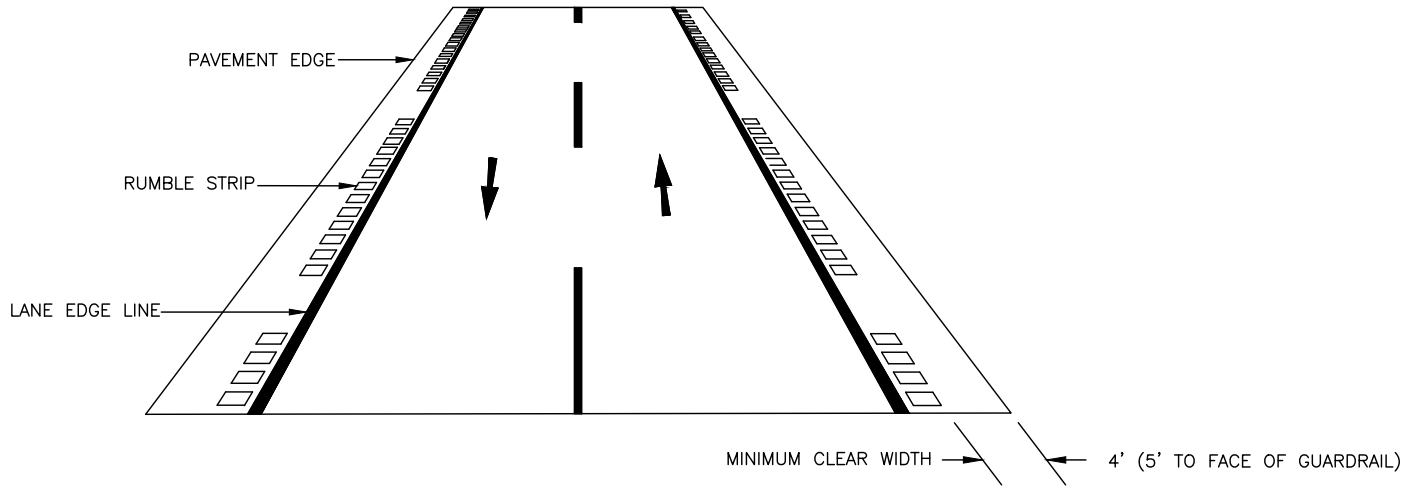


MP1250.3 REST AREA
DETAILS 2 OF 2

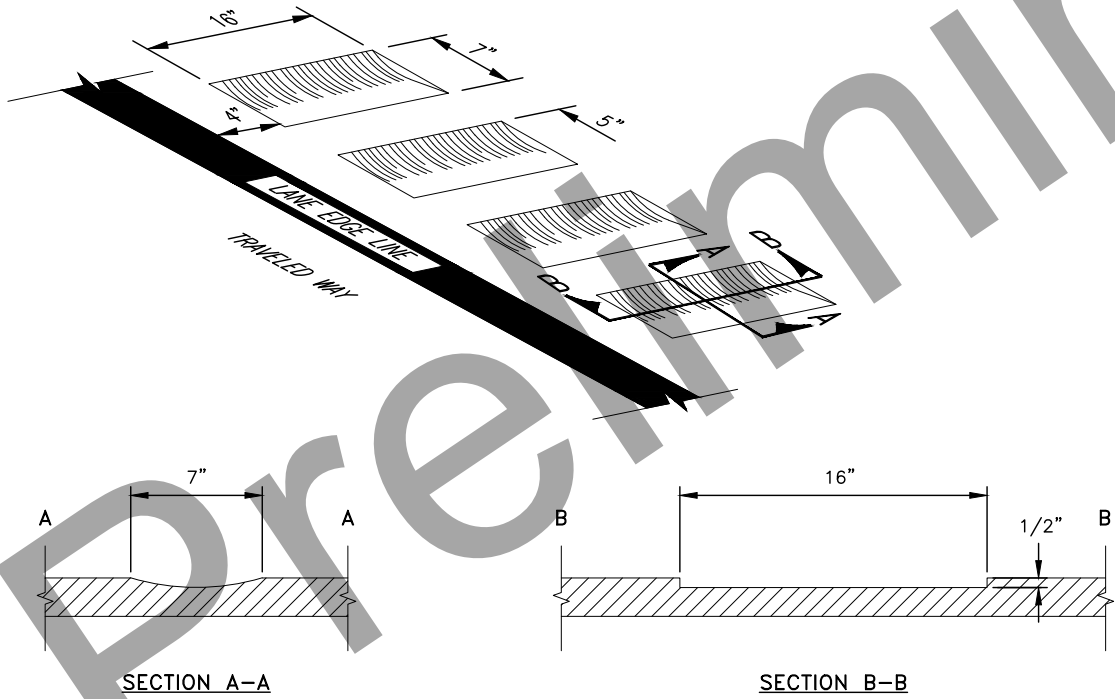
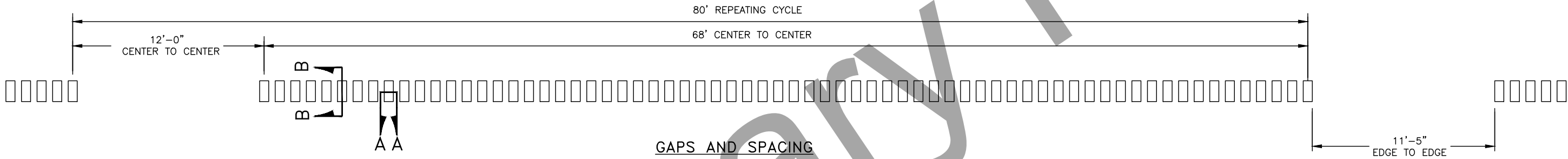
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PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	E15	E16



TYPICAL SHOULDER INSTALLATION – TWO-WAY
PERSPECTIVE VIEW



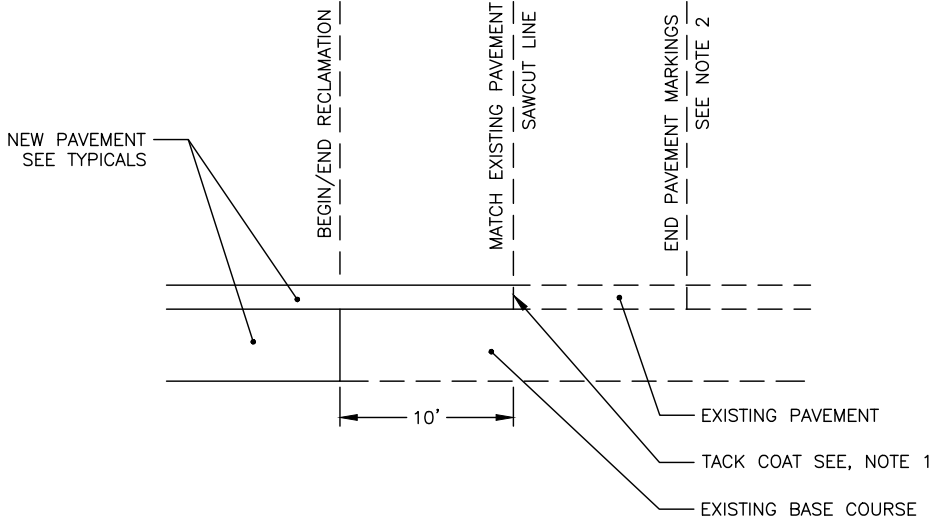
TYPICAL SHOULDER INSTALLATION DETAIL

TENTATIVE RUMBLE STRIP LAYOUT AT BRIDGE

RUMBLE STRIP DETAILS

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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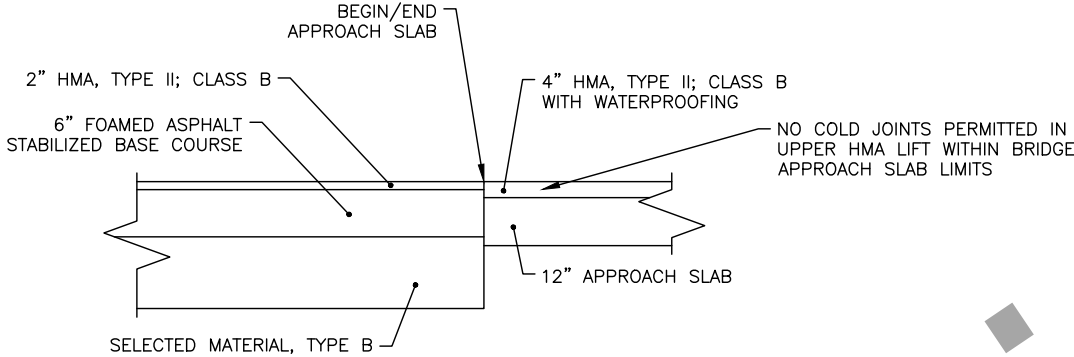
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	E16	E16



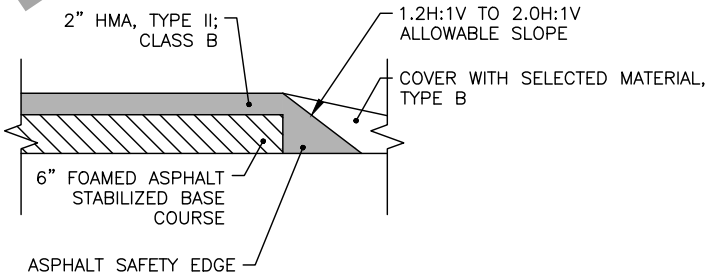
PAVEMENT TRANSITION DETAIL

PAVEMENT TRANSITION NOTES:

1. APPLY STE-1 ASPHALT FOR TACK COAT ON THE VERTICAL FACES OF ALL SAWCUTS.
2. EXTEND PAVEMENT MARKINGS 10' BEYOND THE SAW CUT. TRANSITION AND MATCH THE EXISTING STRIPING CONFIGURATION. PAVEMENT MARKING EXTENSIONS ARE NOT REQUIRED AT DRIVEWAYS OR APPROACHES.



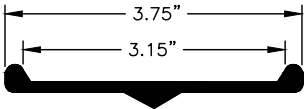
APPROACH SLAB/PAVEMENT TRANSITION



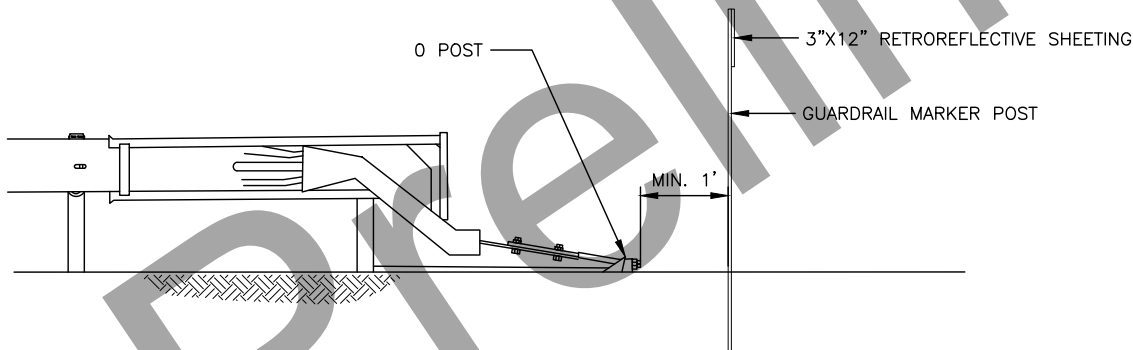
ASPHALT SAFETY EDGE DETAIL

ASPHALT SAFETY EDGE NOTES:

1. LABOR AND EQUIPMENT REQUIRED TO CONSTRUCT THE SAFETY EDGE IS SUBSIDIARY TO 401 SERIES PAY ITEMS.
2. MATERIAL WILL BE MEASURED AND PAID UNDER PAY ITEM 401.0001.002B
3. DO NOT CONSTRUCT THE SAFETY EDGE ACROSS DRIVEWAYS, BRIDGE, OR BRIDGE SLABS.



POST DETAIL
CROSS-SECTIONAL VIEW



GUARDRAIL MARKER POST INSTALLATION DETAIL
PARALLEL GUARDRAIL TERMINAL

GUARDRAIL MARKER NOTES:

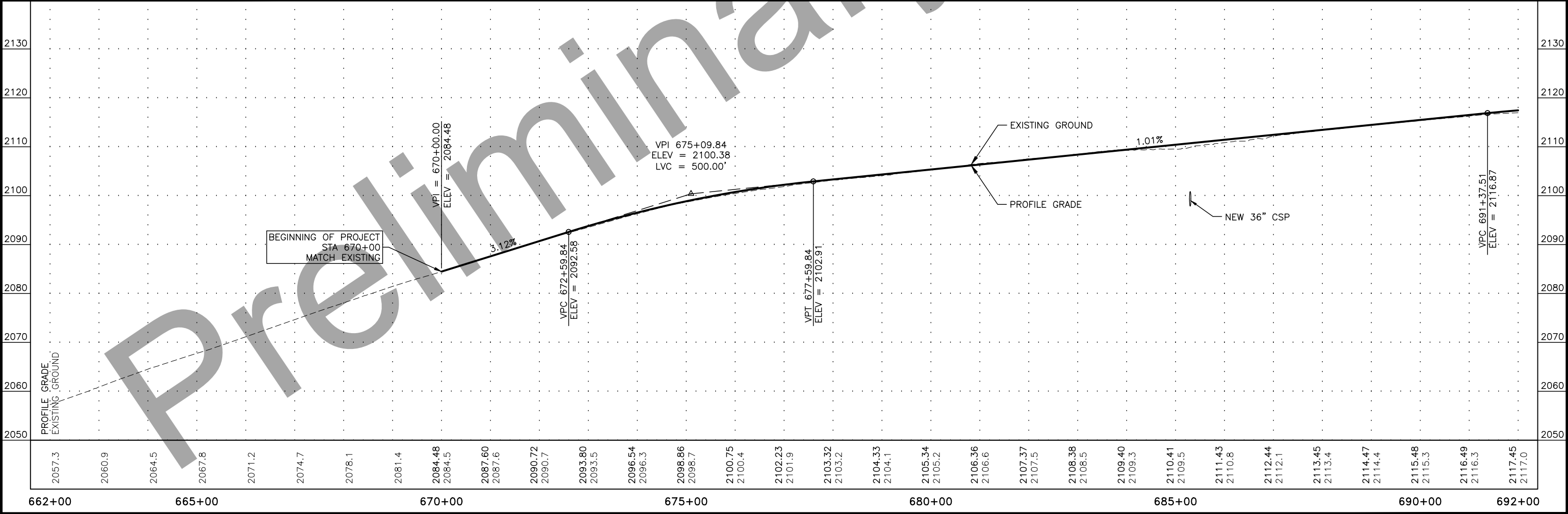
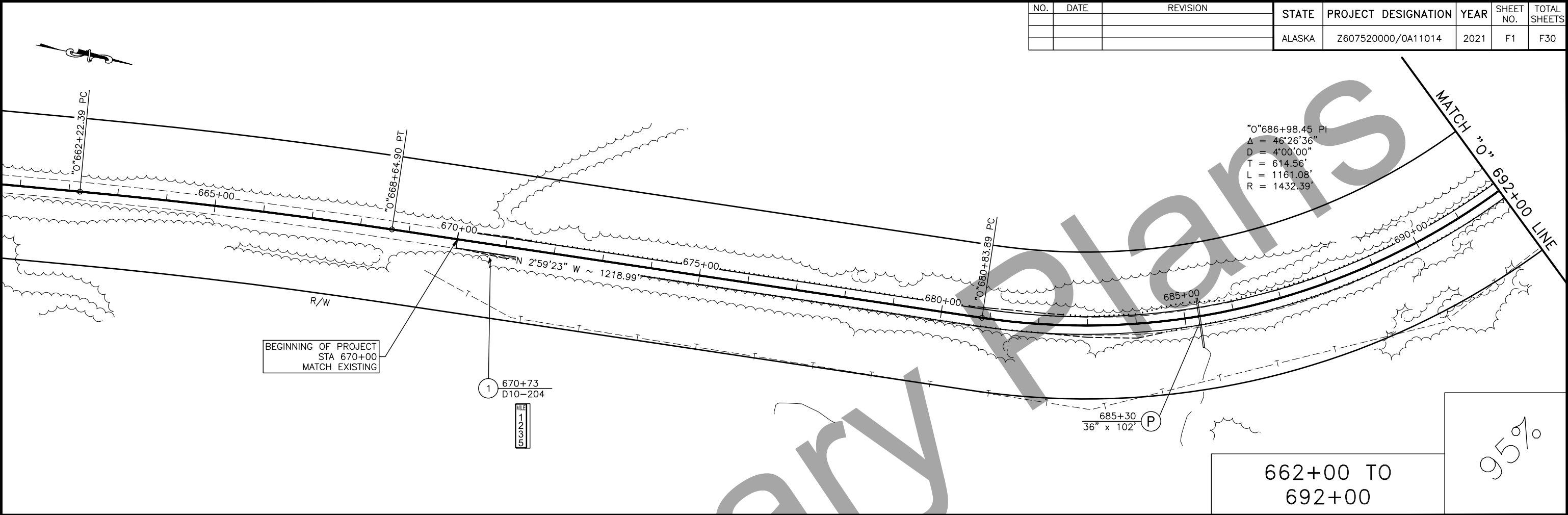
1. GUARDRAIL MARKER POSTS SHALL BE YELLOW AND AT LEAST 78" LONG. POSTS SHALL MEET THE REQUIREMENTS OF SECTION 730-2.05 FLEXIBLE DELINEATOR POSTS.
2. RETROREFLECTIVE SHEETING SHALL MEET ASTM D4956 REQUIREMENTS FOR TYPE VIII, IX, OR XI. COLOR OF RETROREFLECTIVE SHEETING SHALL MATCH COLOR OF ADJACENT EDGE LINE STRIPE. PLACE RETROREFLECTIVE SHEETING ON SIDE OF MARKER POST FACING TRAFFIC IN ADJACENT LANE.
3. DRIVE GUARDRAIL MARKER POST 18" INTO GROUND.
4. PLACE CENTER OF MARKER POST IN LINE WITH TRAFFIC SIDE OF O POST.
5. ALL WORK AND MATERIAL REQUIRED TO INSTALL GUARDRAIL MARKER POSTS IS SUBSIDIARY TO 606 PAY ITEMS.

MISCELLANEOUS DETAILS

95%

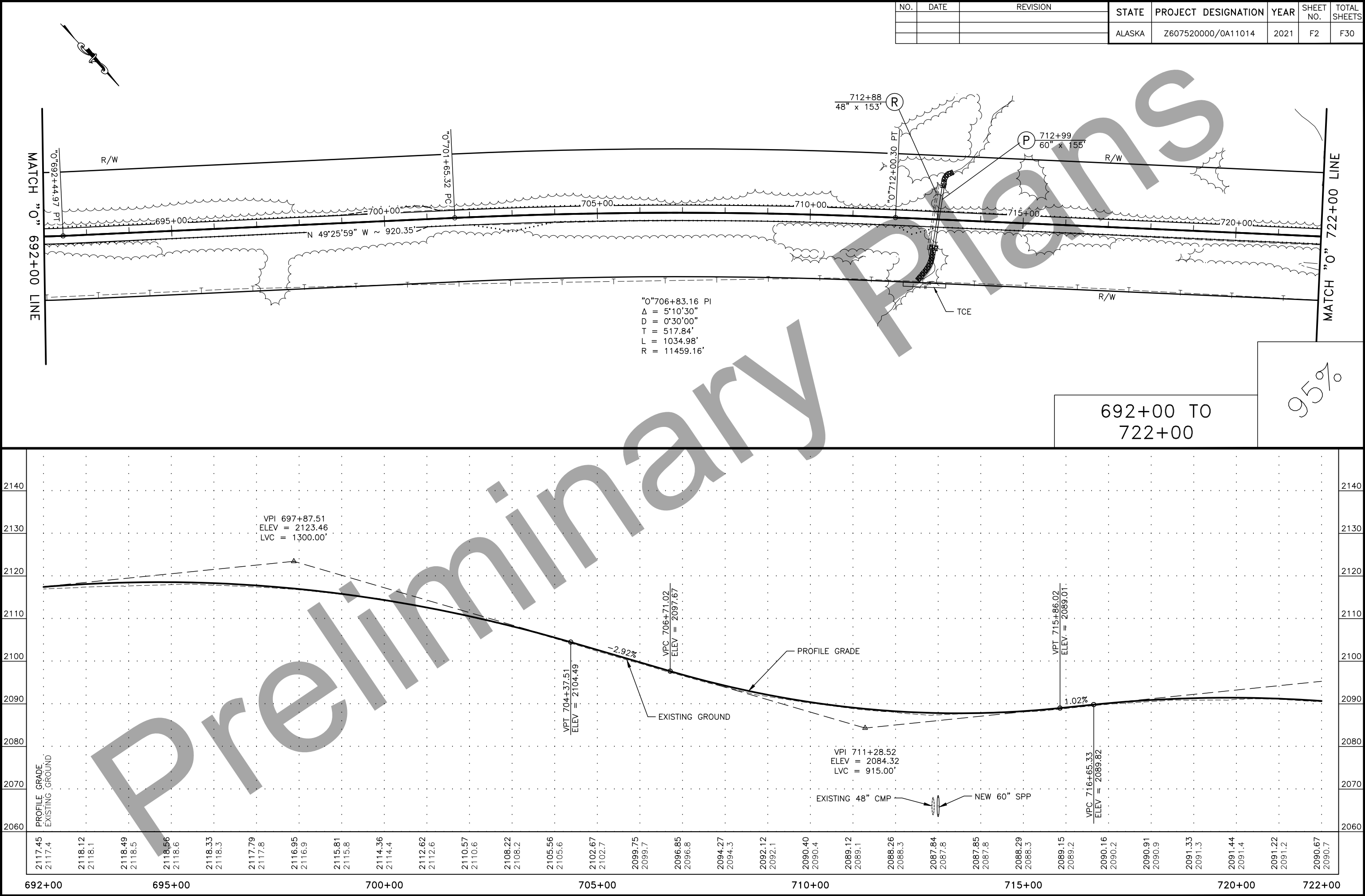
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	F1	F30



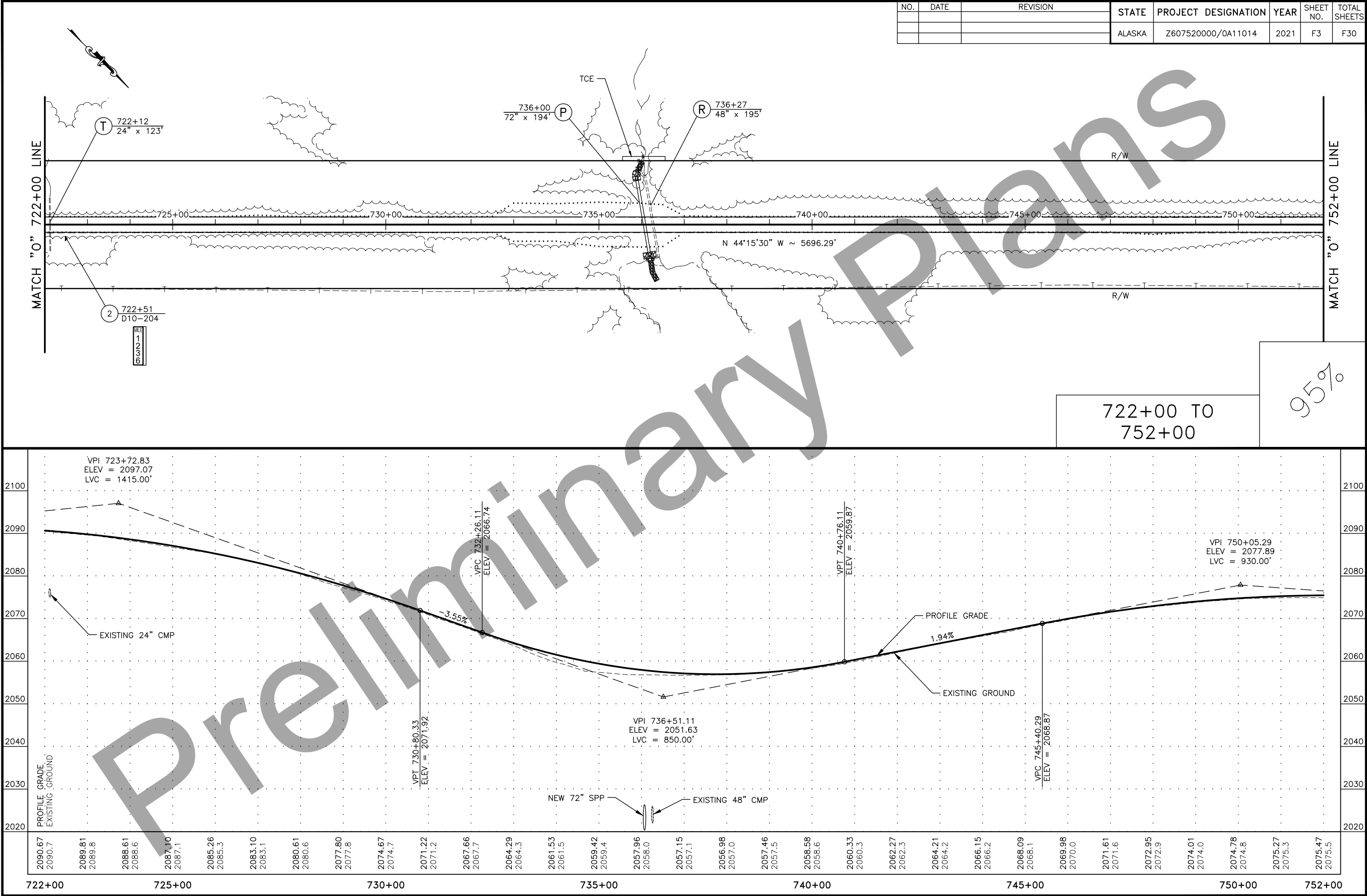
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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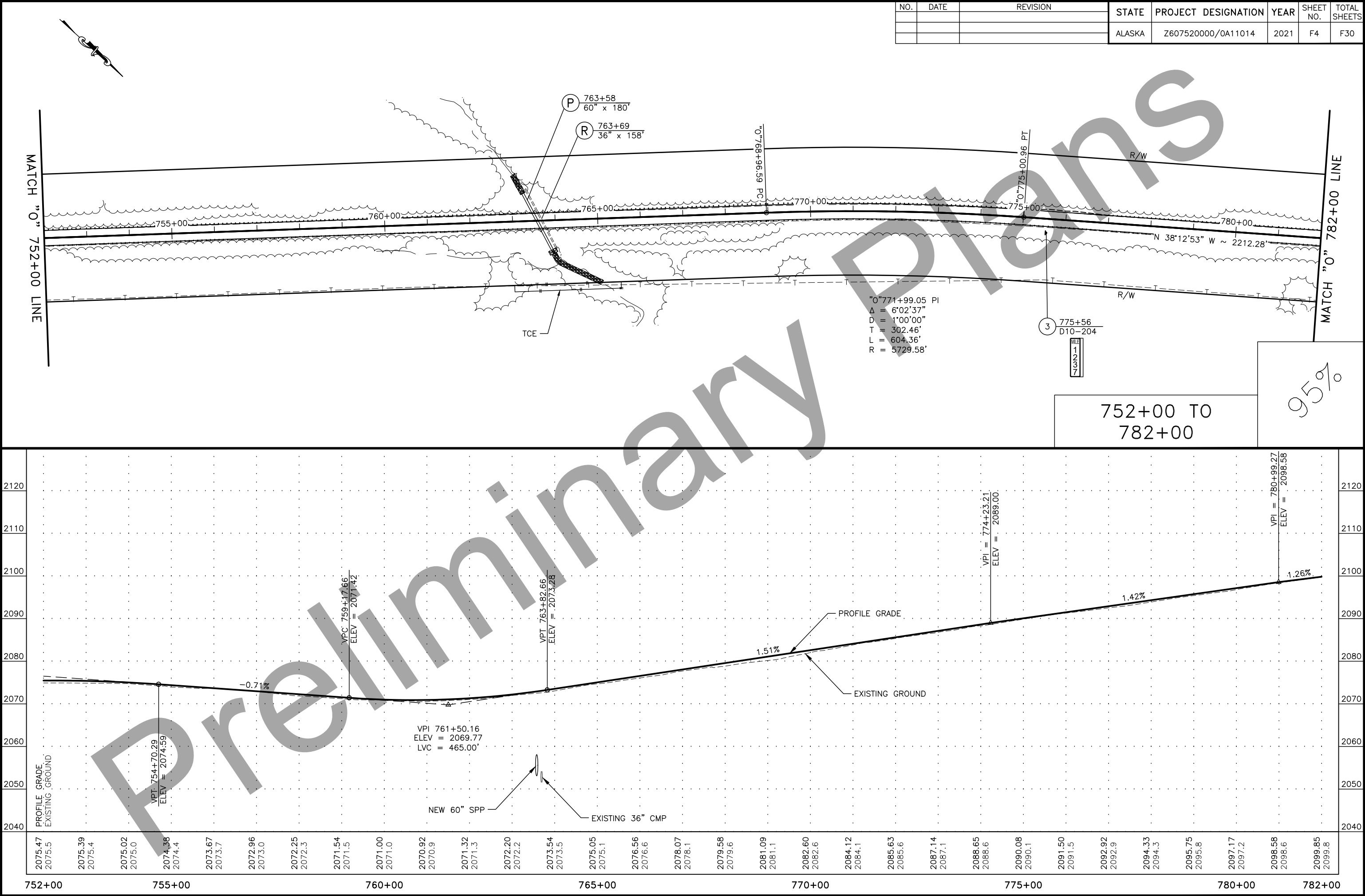
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F3	F30



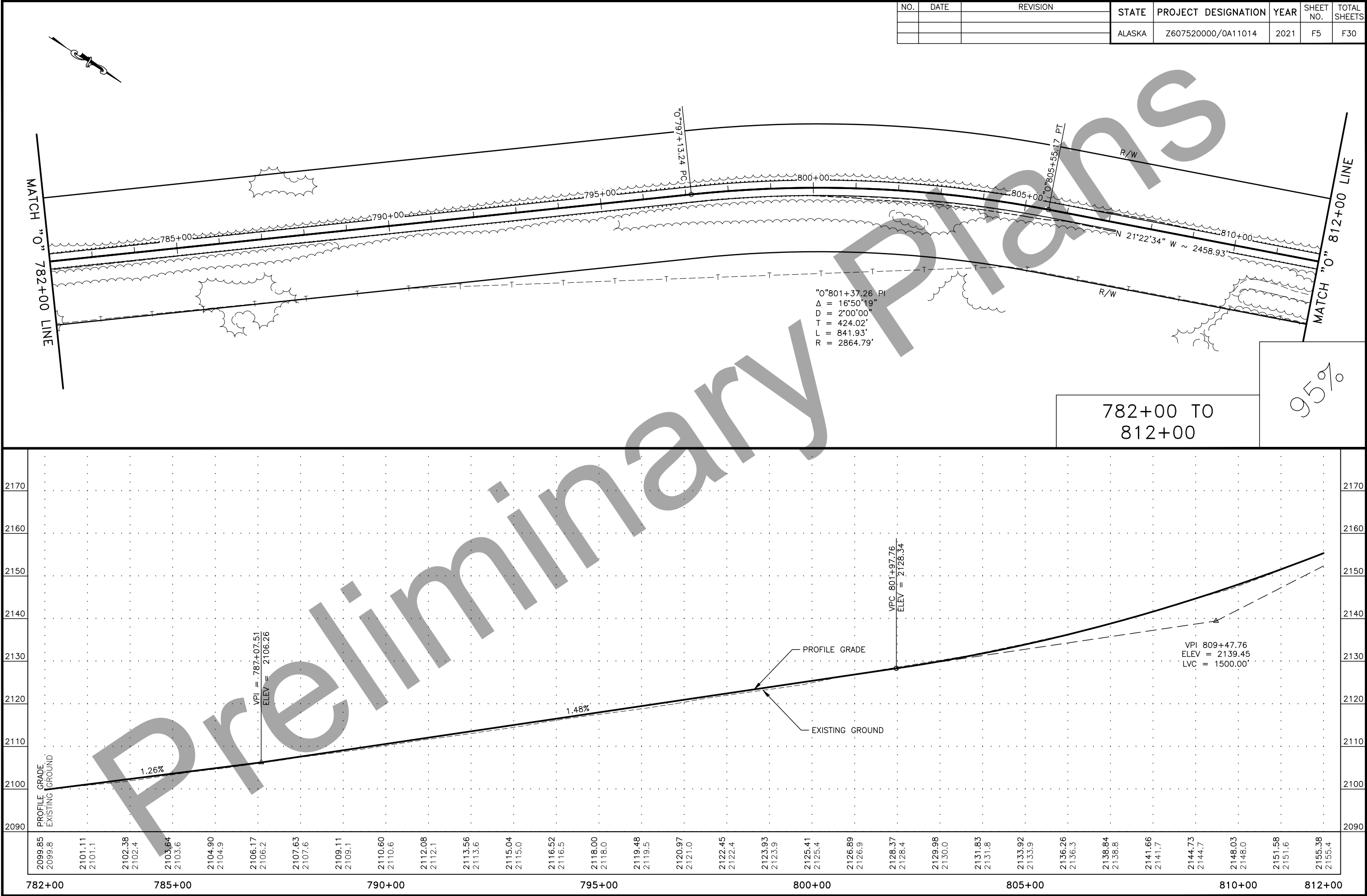
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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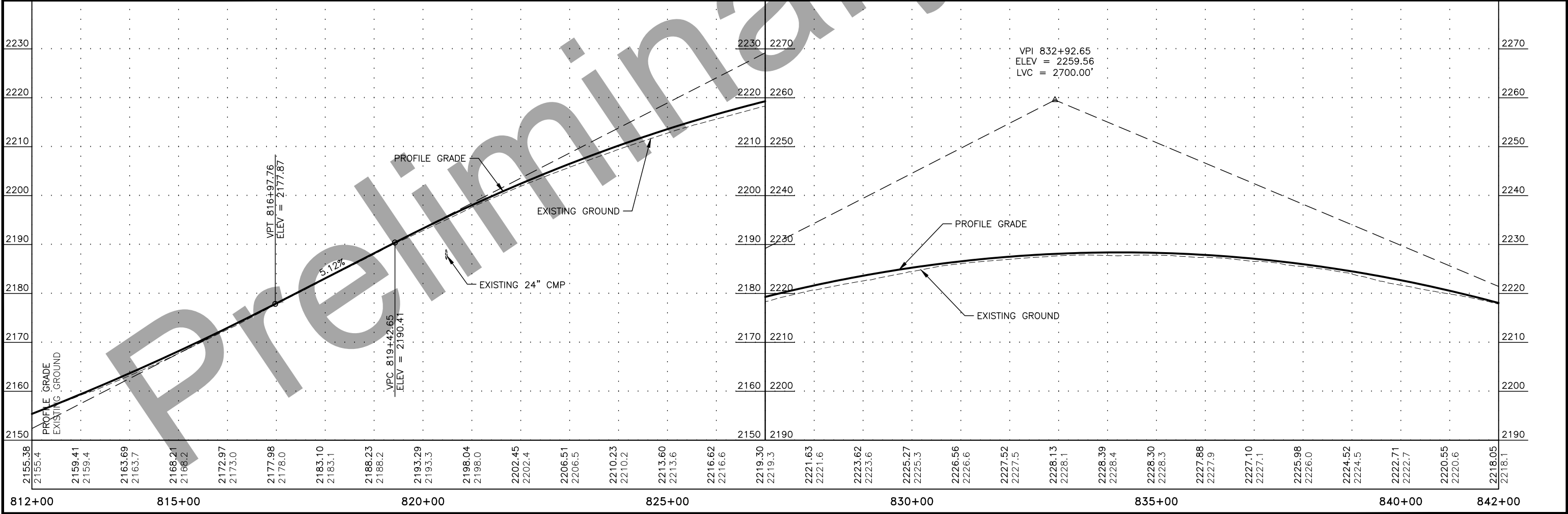
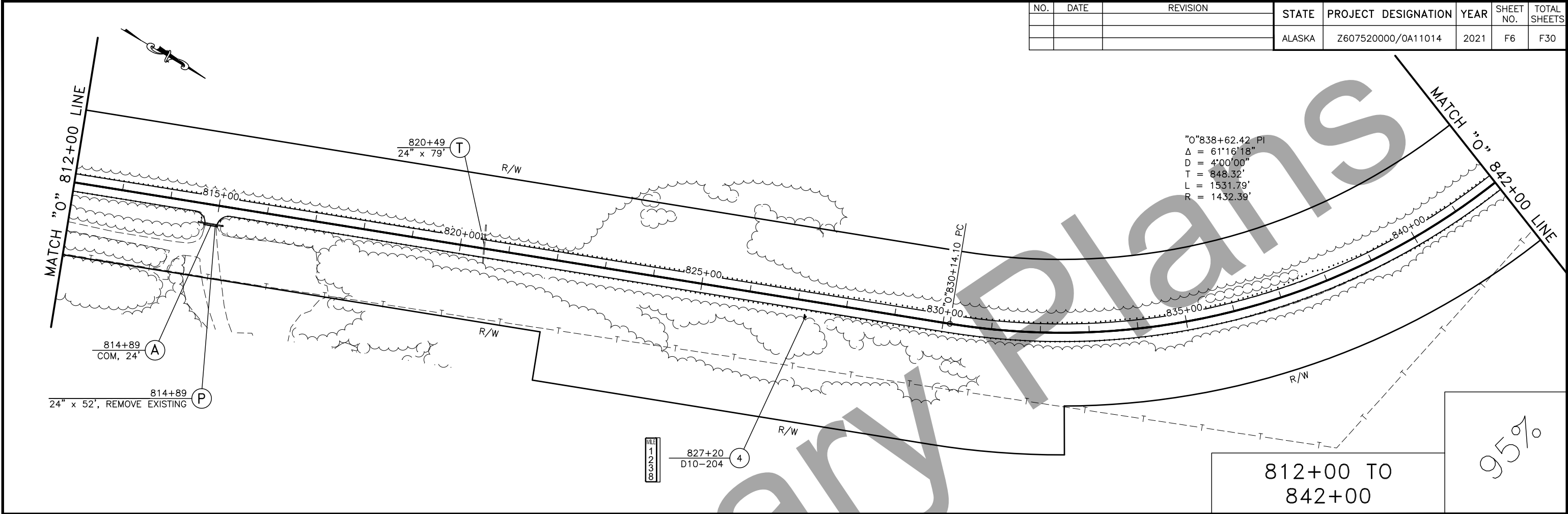
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F5	F30



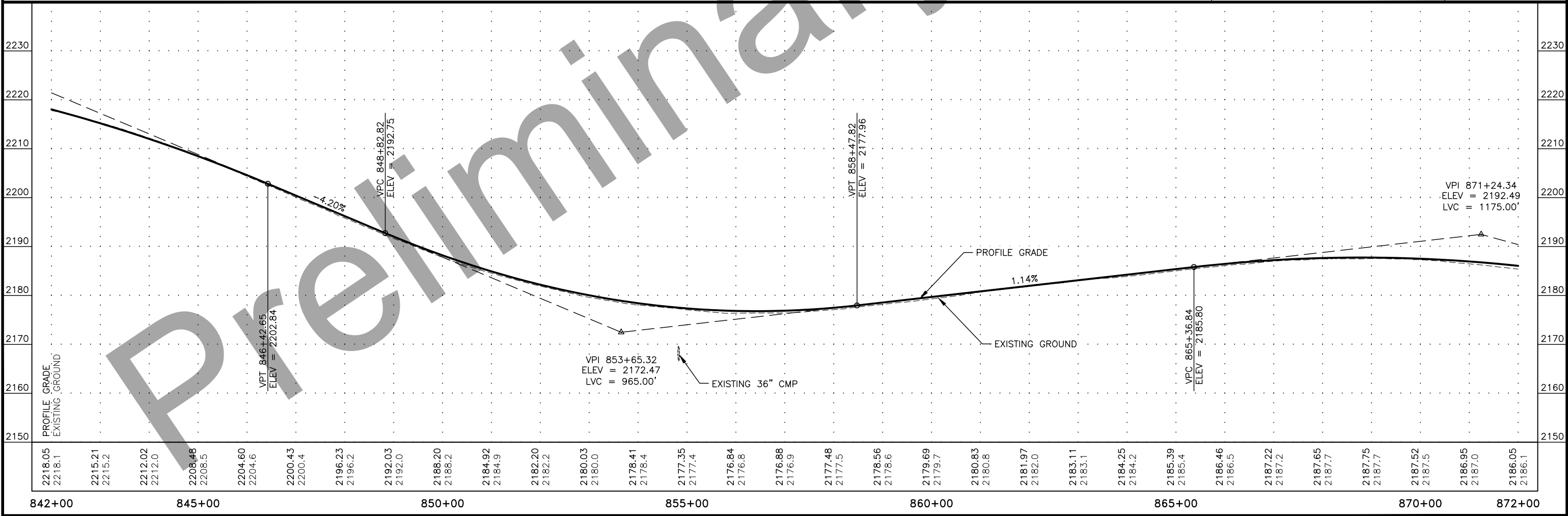
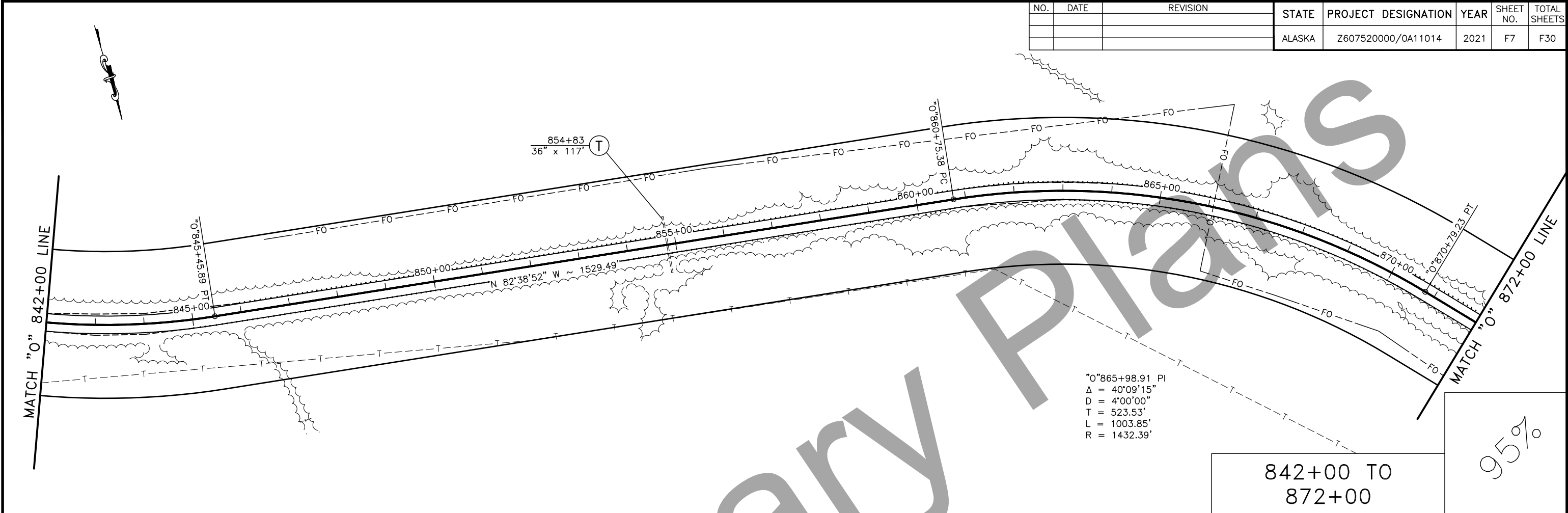
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F6	F30



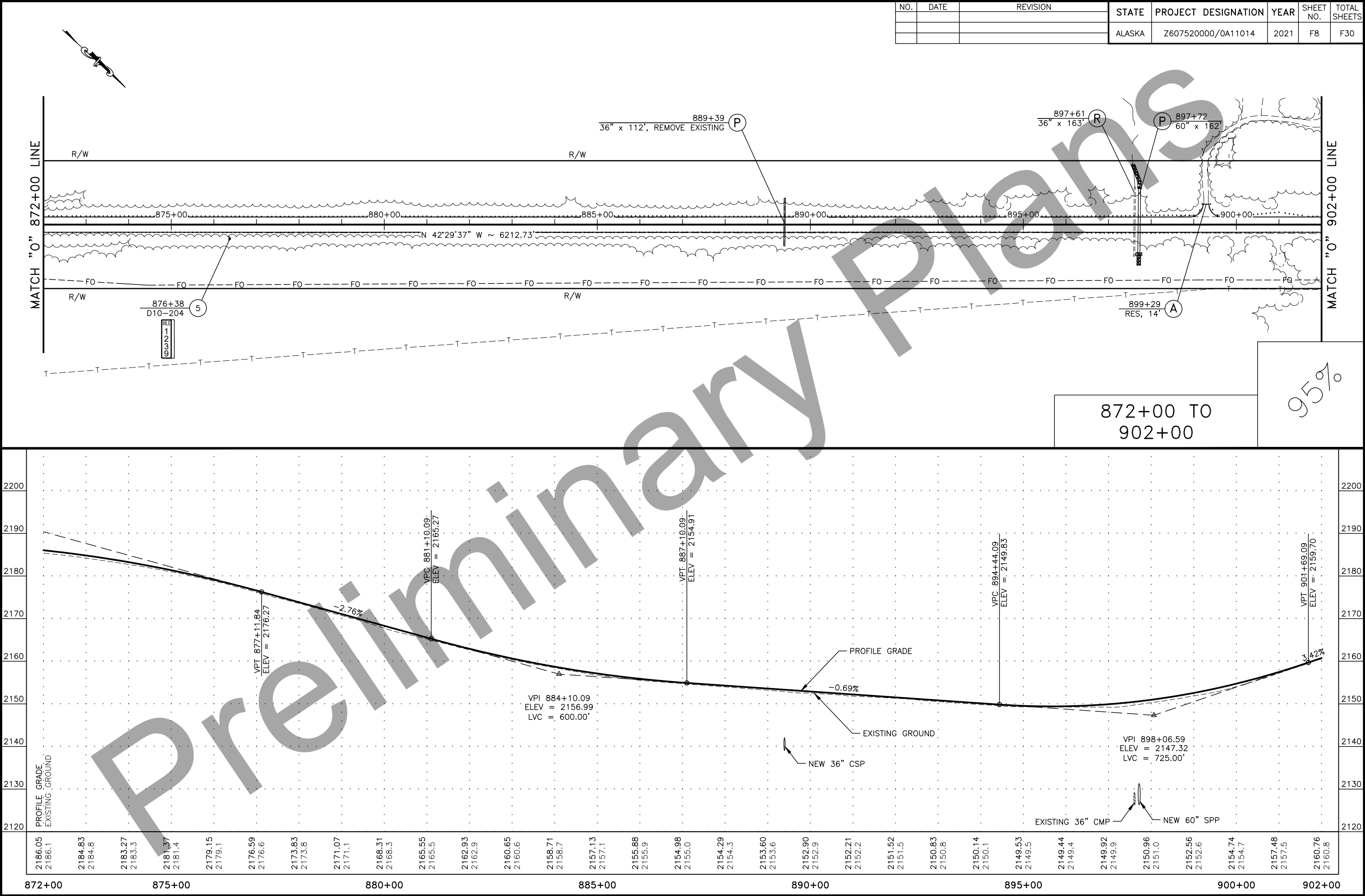
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F7	F30



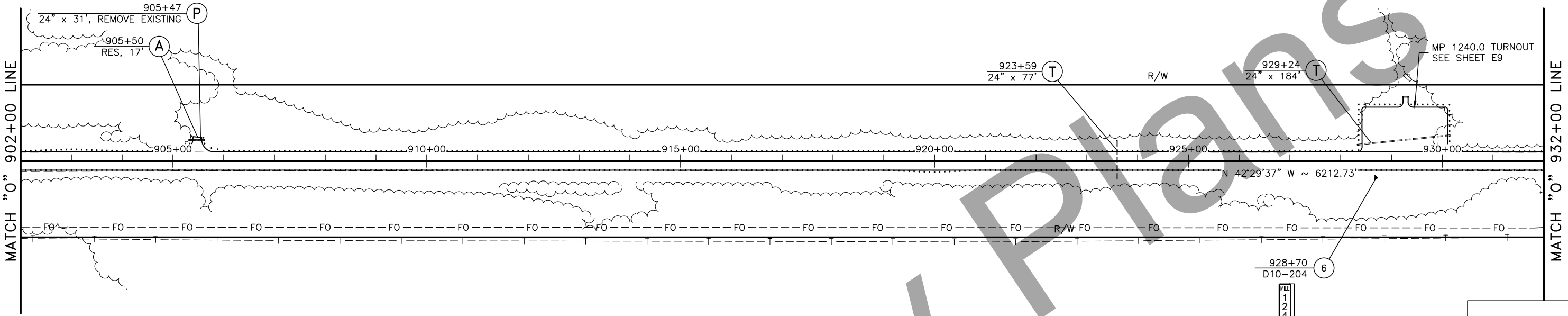
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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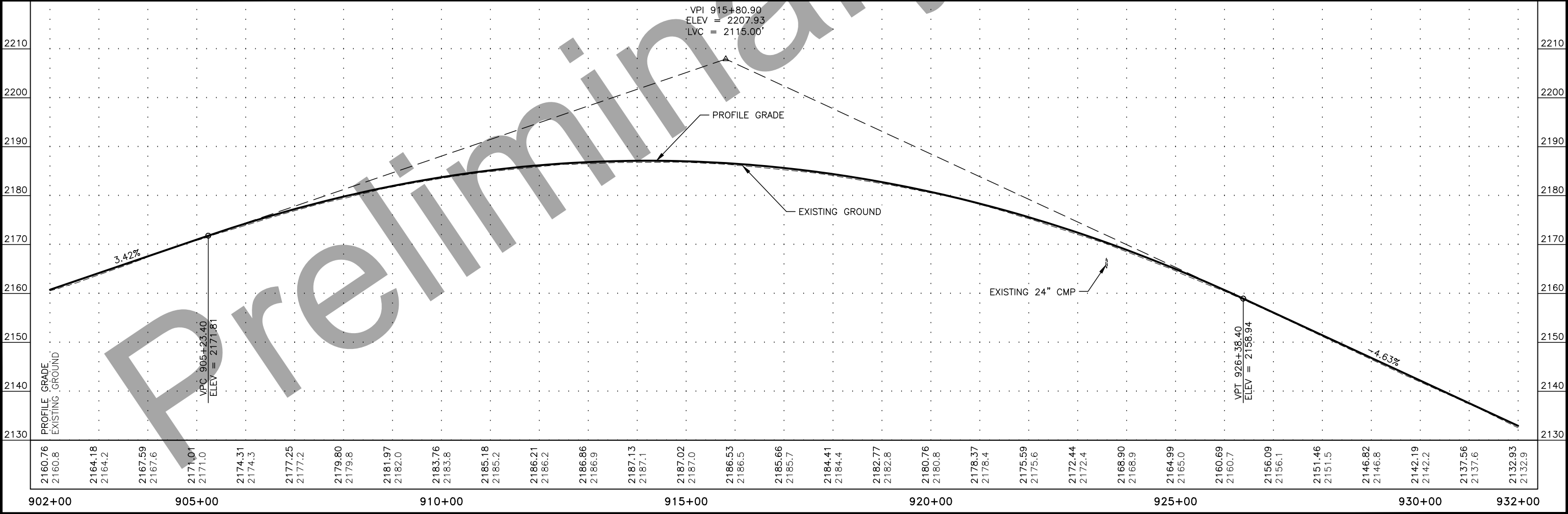
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F9	F30



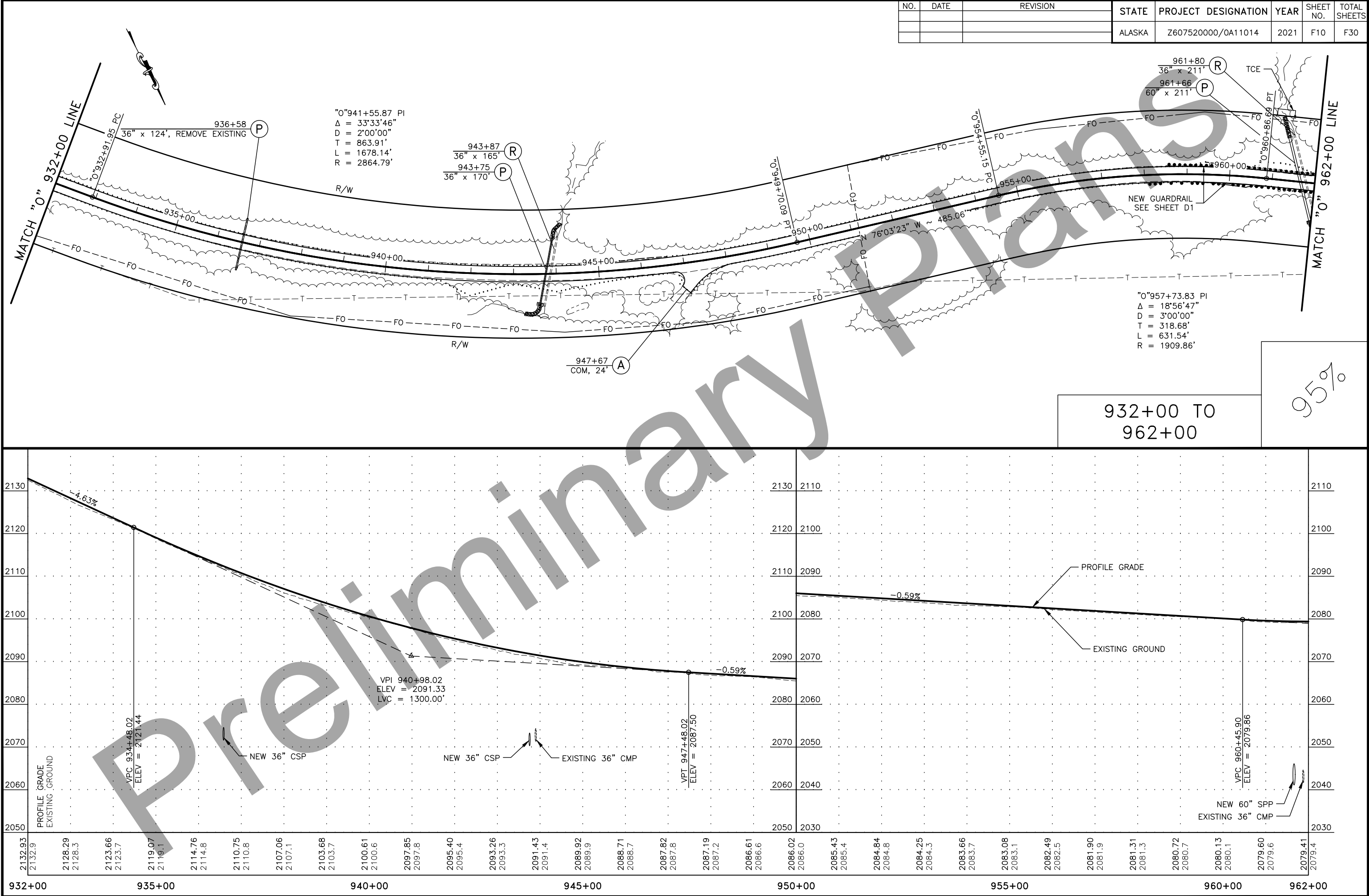
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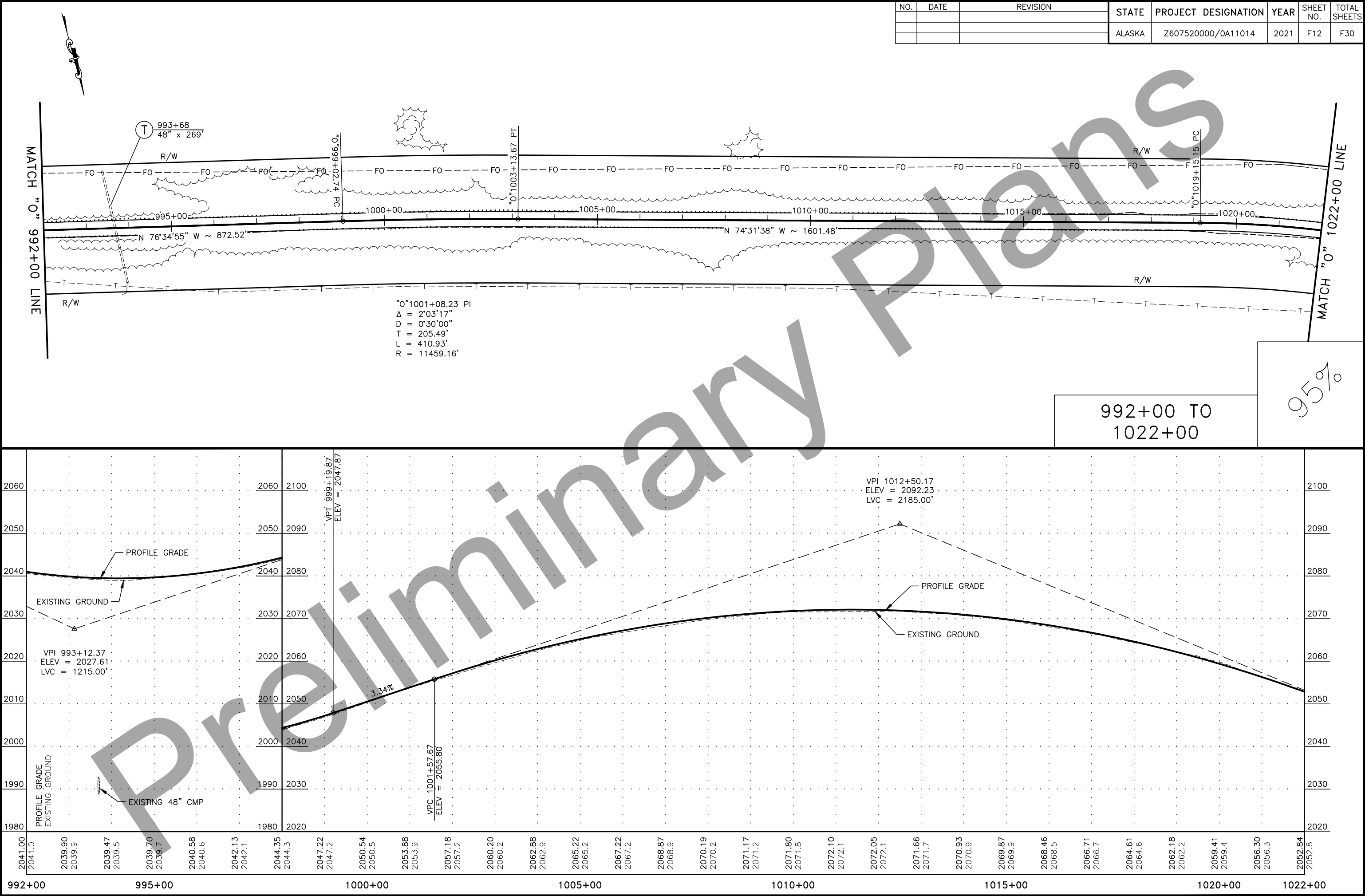
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F10	F30



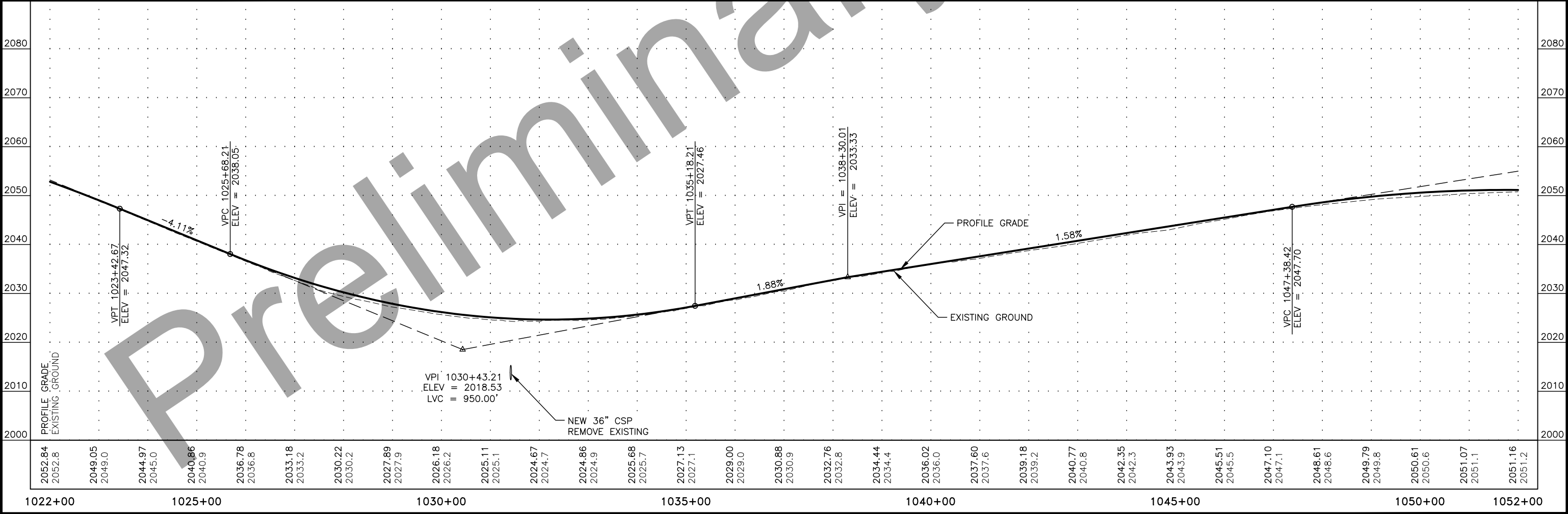
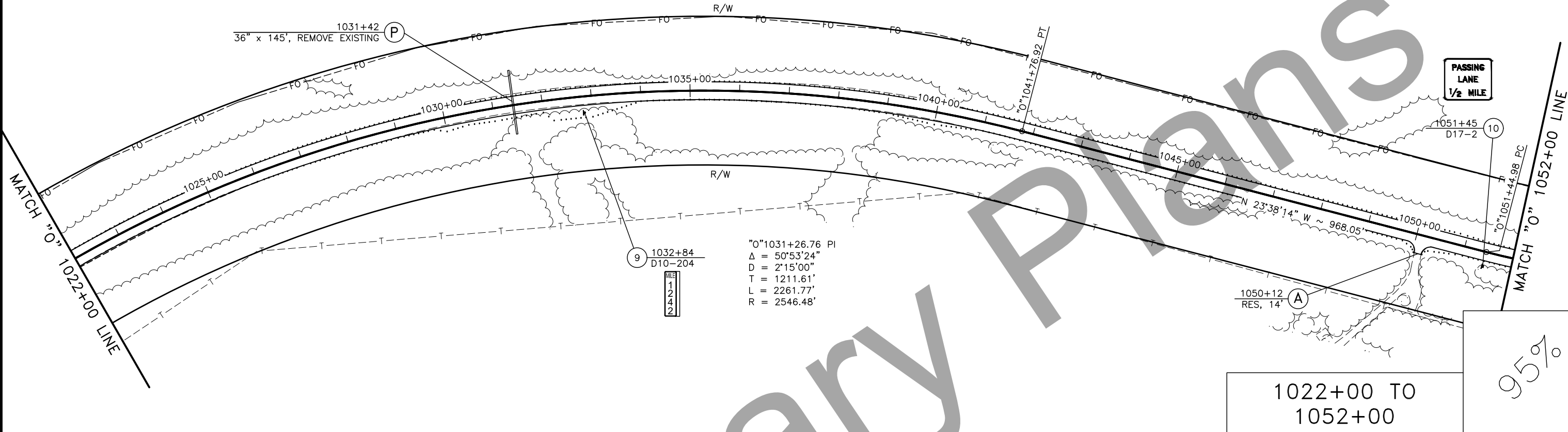
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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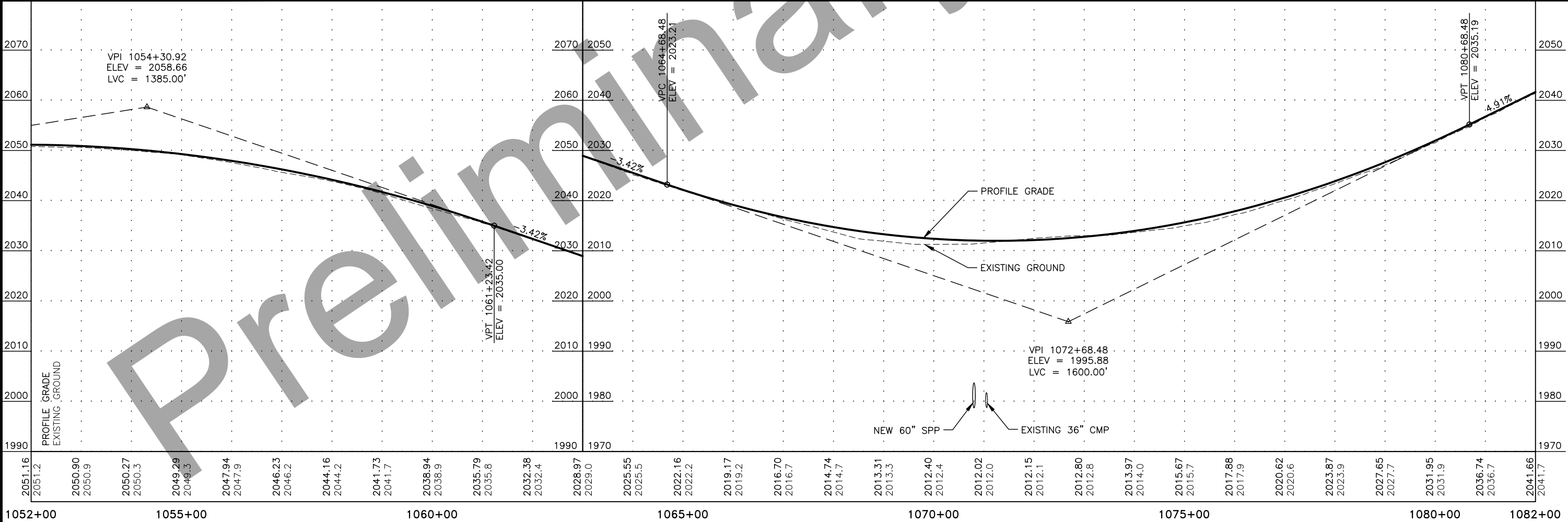
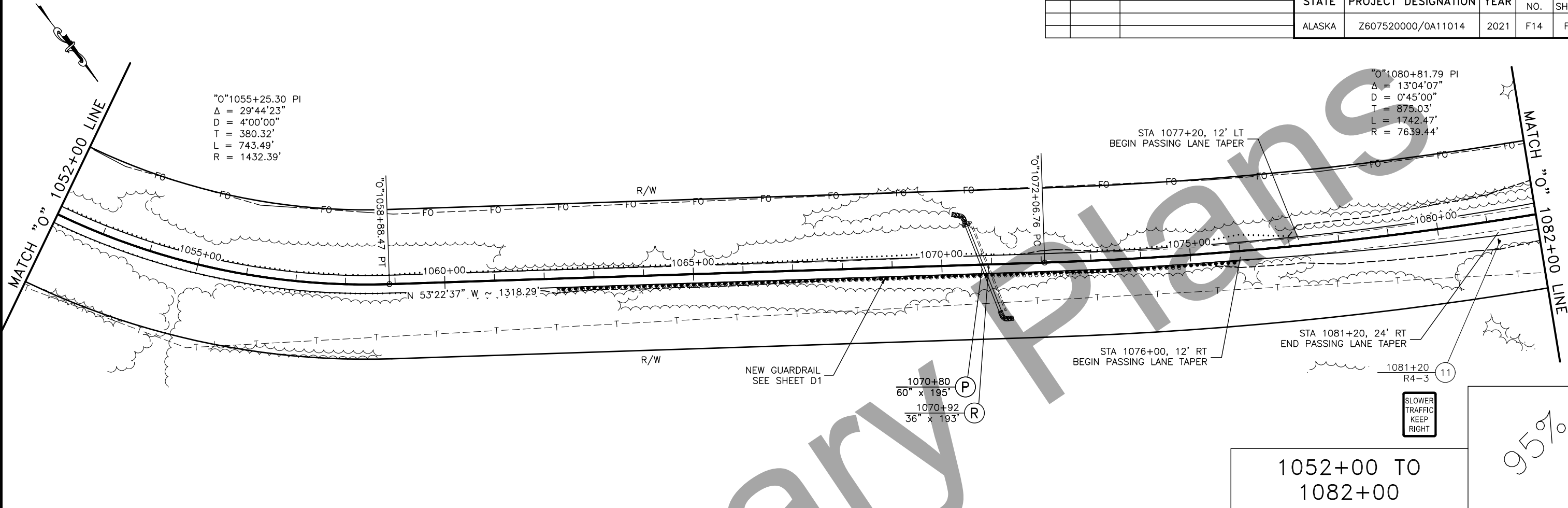
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	F13	F30



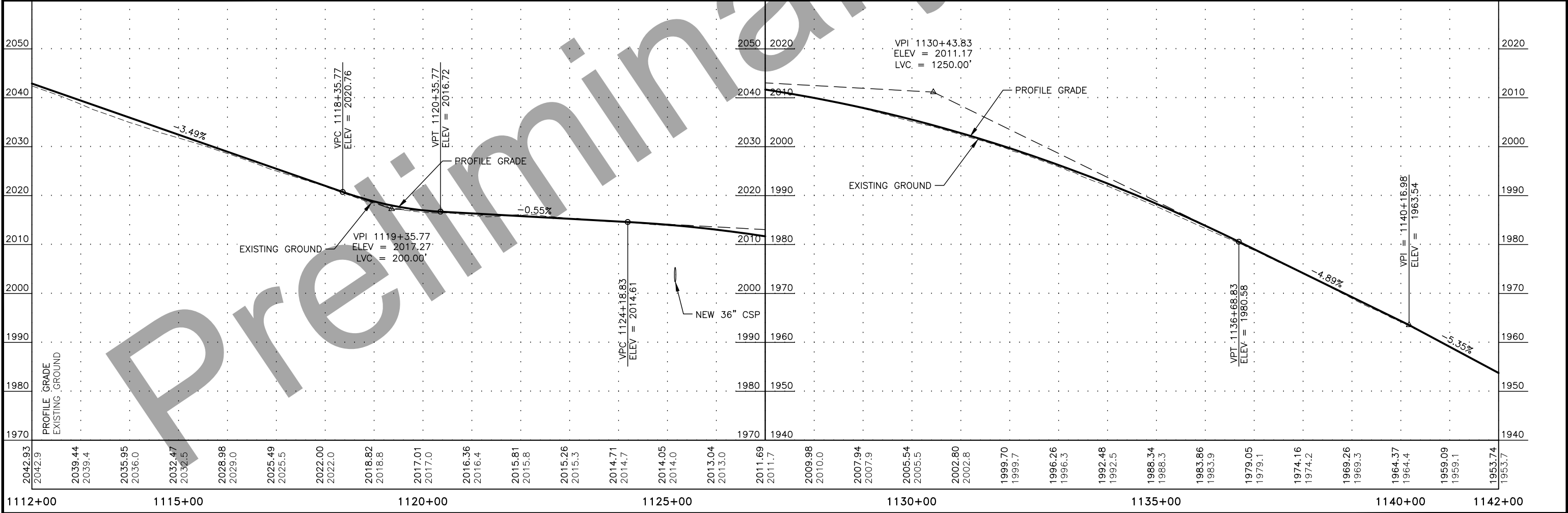
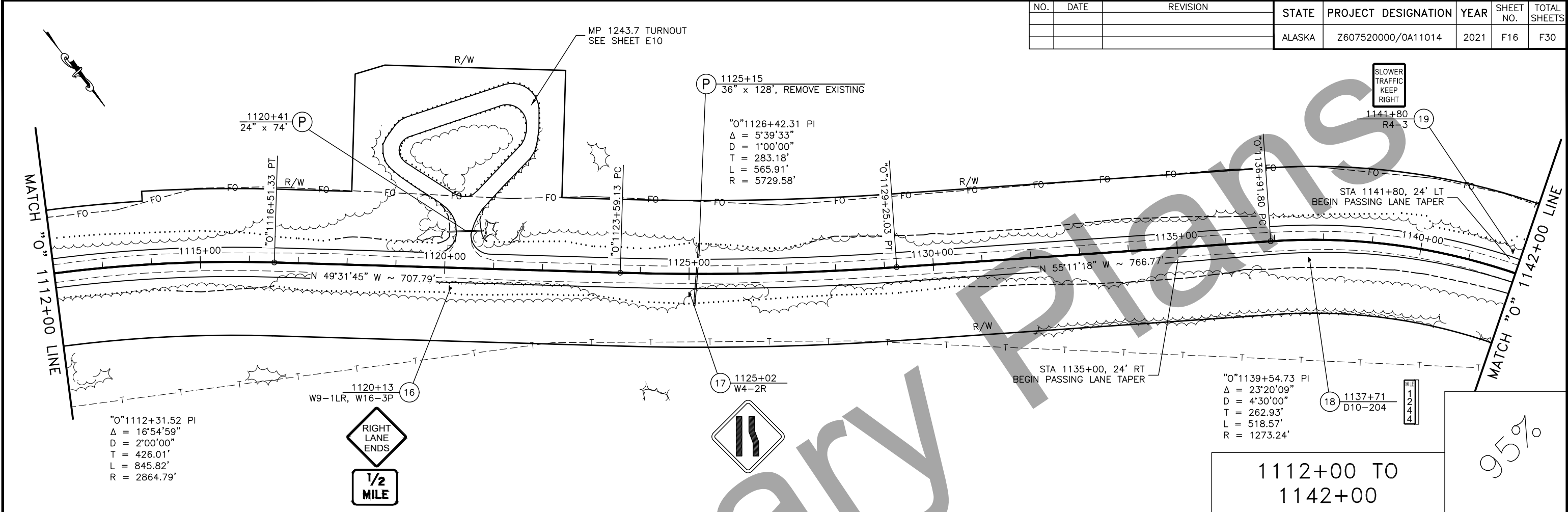
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F14	F30



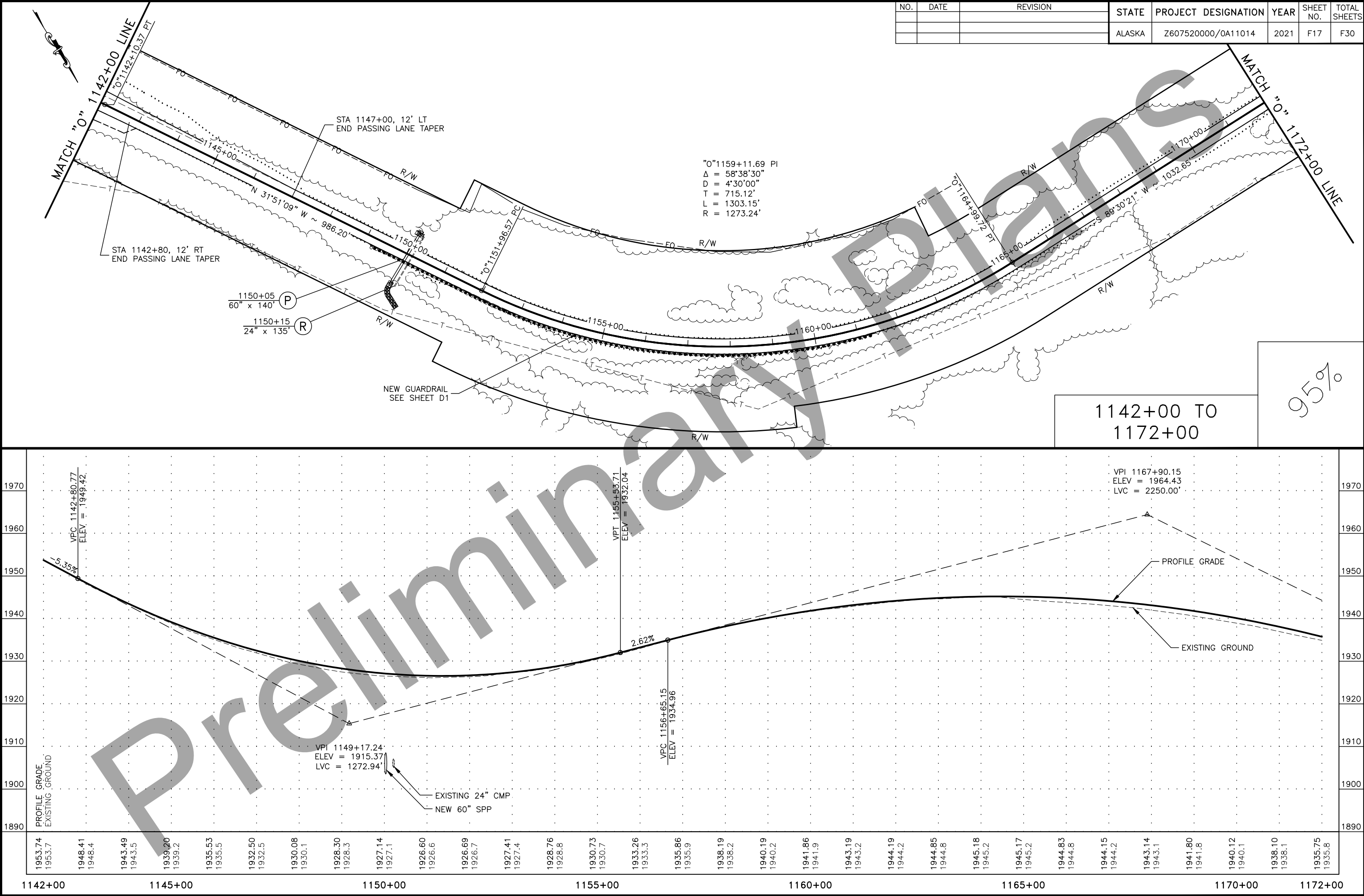
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F16	F30



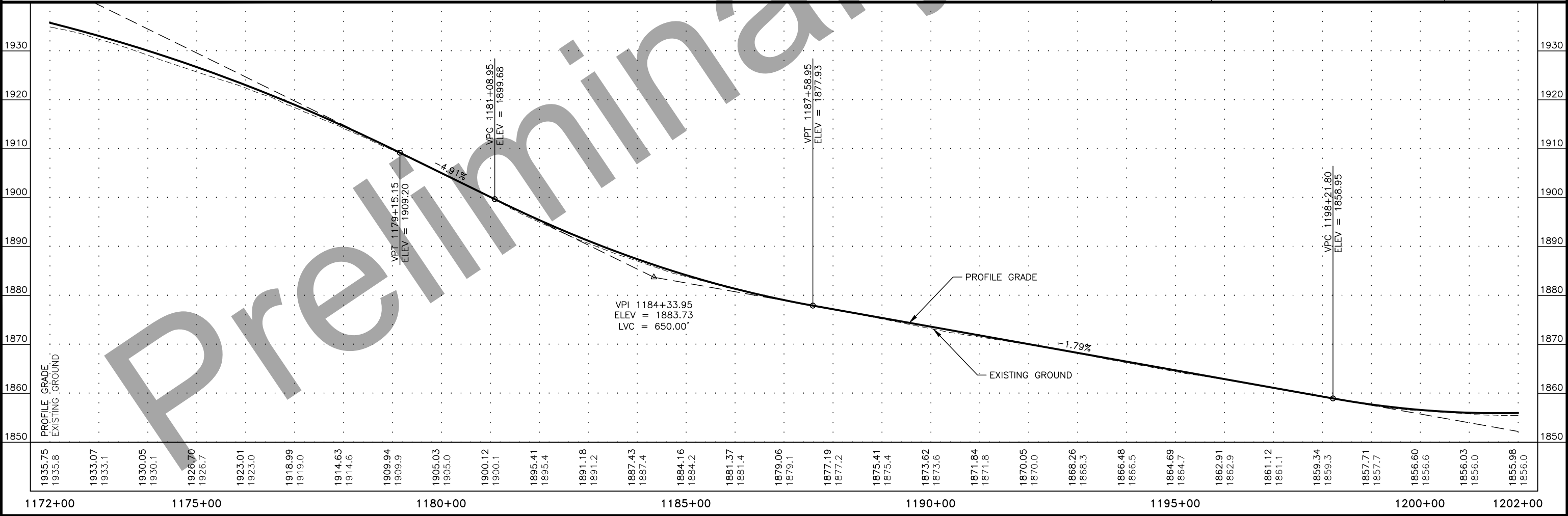
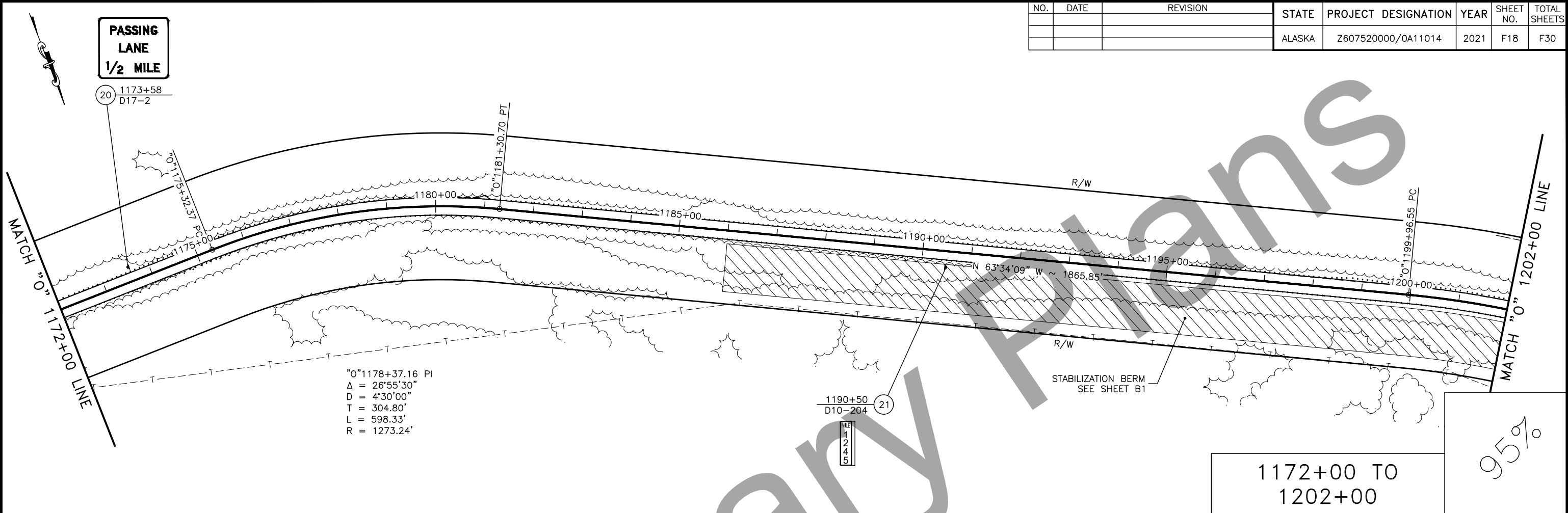
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			ALASKA	Z607520000/OA11014	2021	F17	F30



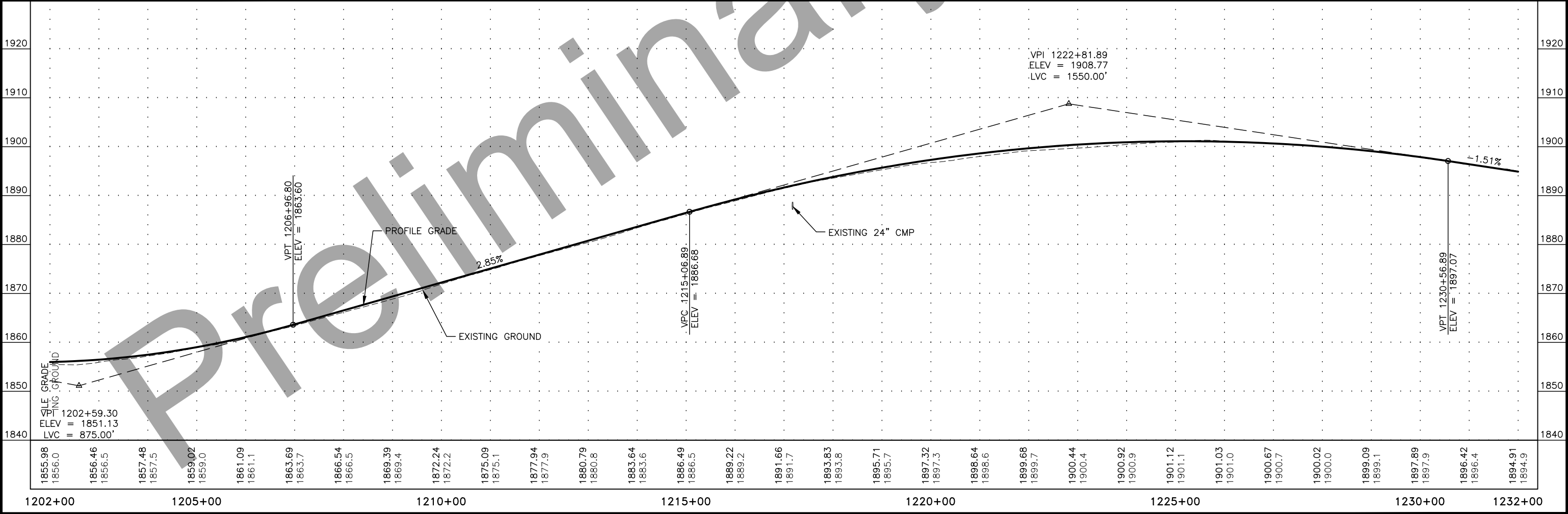
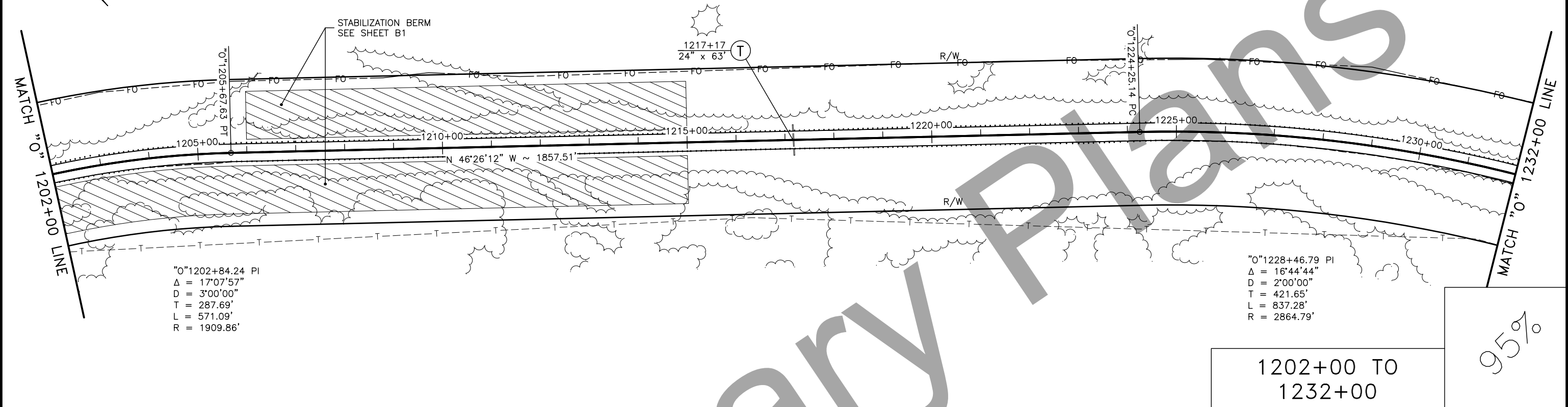
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C:\Users\CraigLenatta\AppData\Local\Bentley\Projectwise\workingdir\mb-us-pw-02\craig.lenatta@mbakerintl.com\dms35341\60752_F_recover1-1172+00 TO 1202+00 Wed, Sep/08/21 04:35pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F18	F30



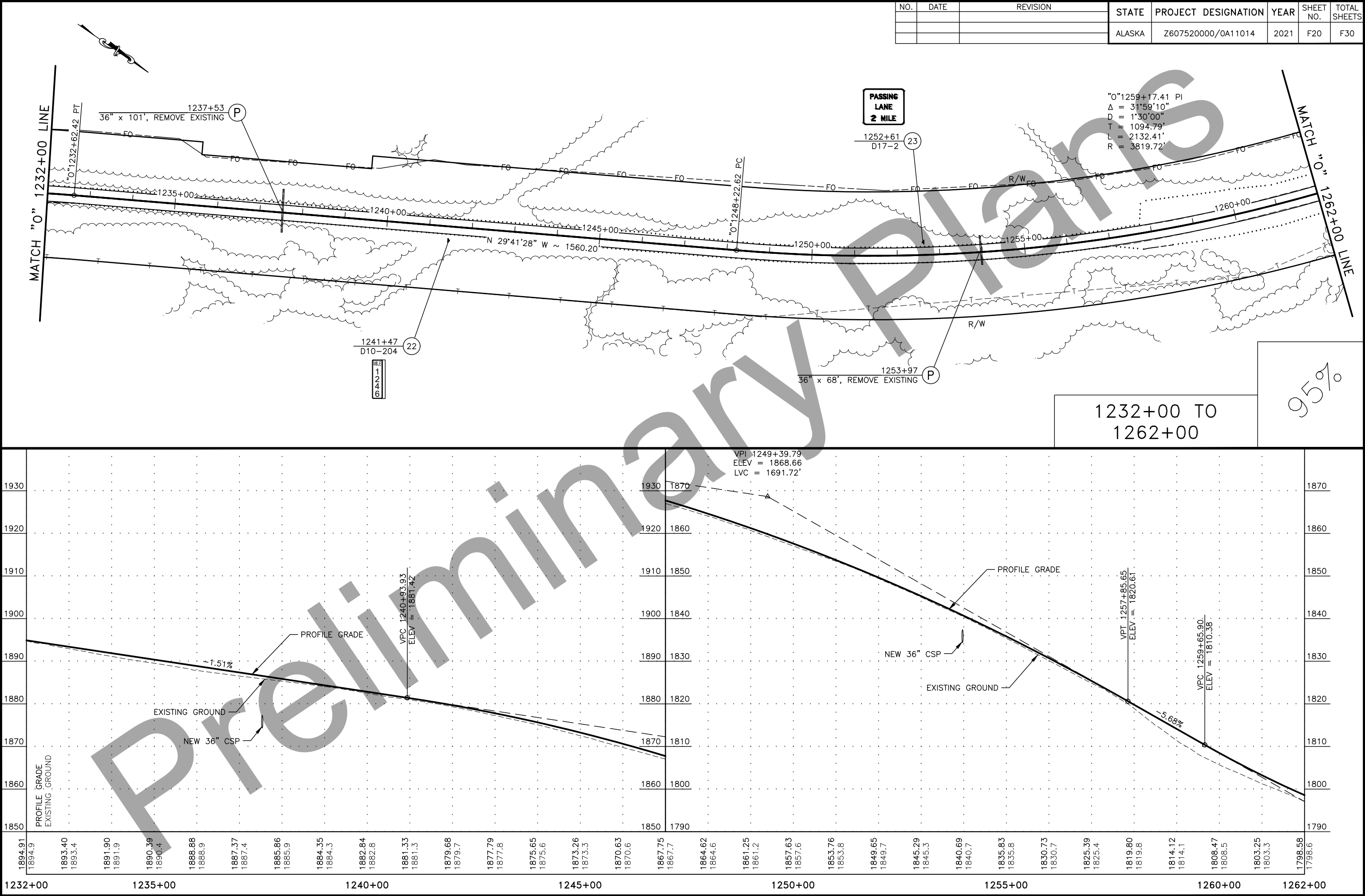
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
C:\Users\craiglenatta\AppData\Local\Bentley\Projectwise\workingdir\mb-us-pw-bentley.com_mb-us-pw-02_craiglenatta@mbakerintl.com\dms35341\60752_F_recovery1-1202+00 TO 1232+00 Wed, Sep/08/21 04:36pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F19	F30



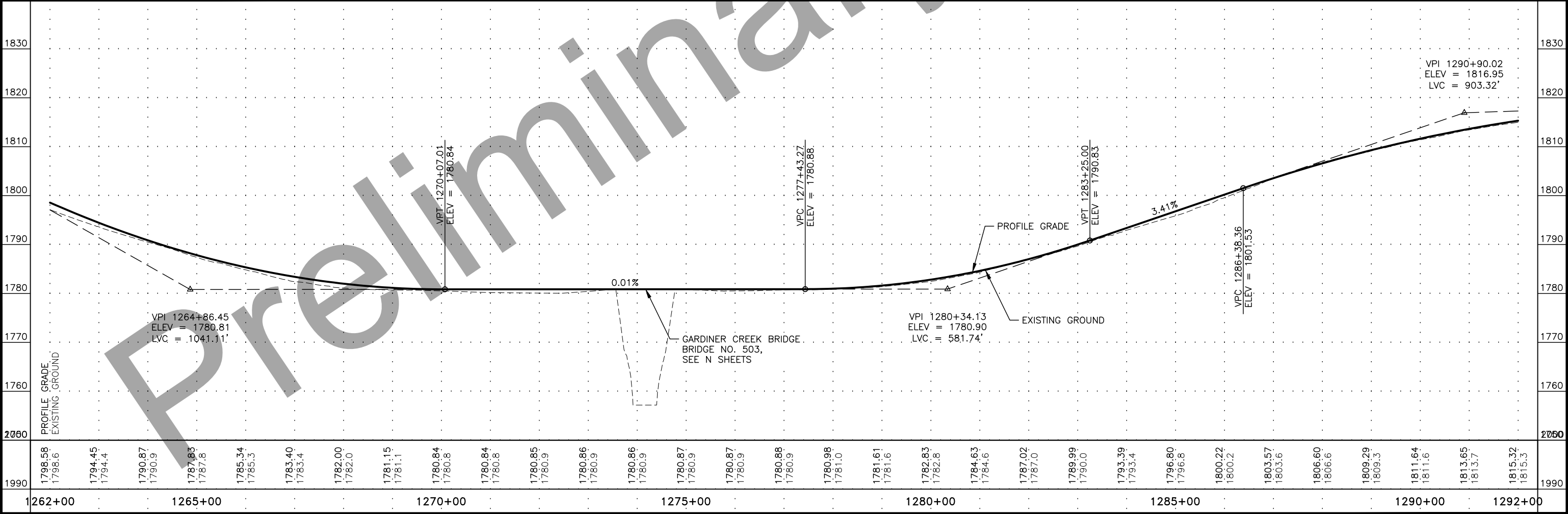
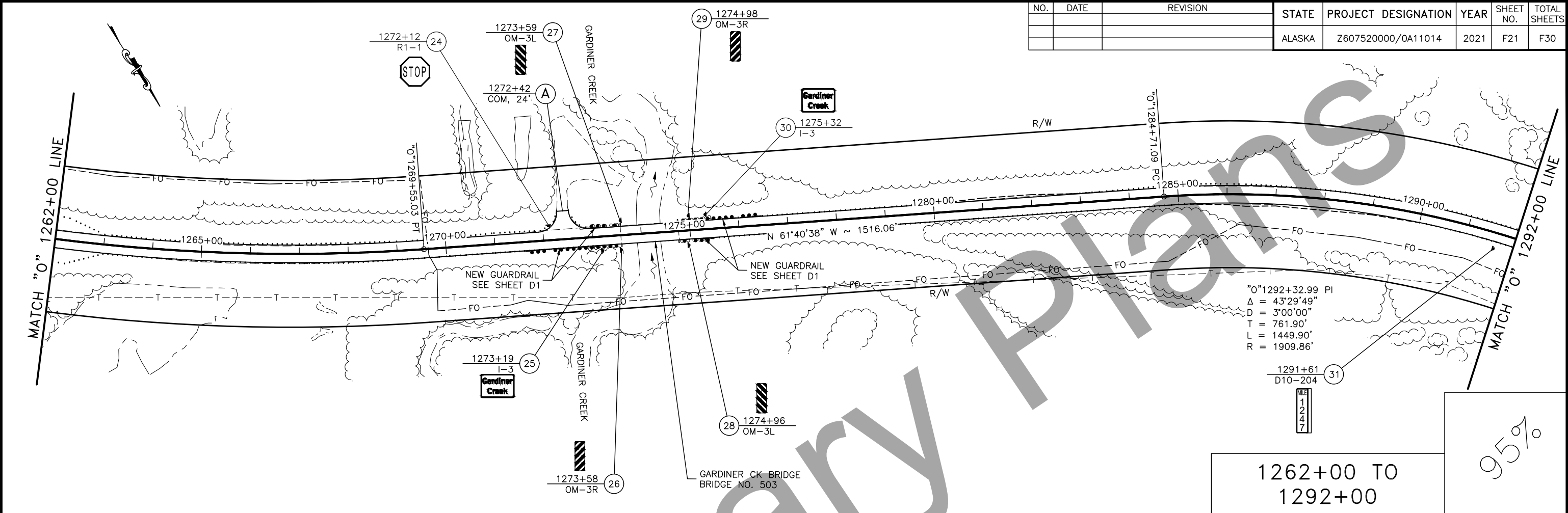
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F20	F30



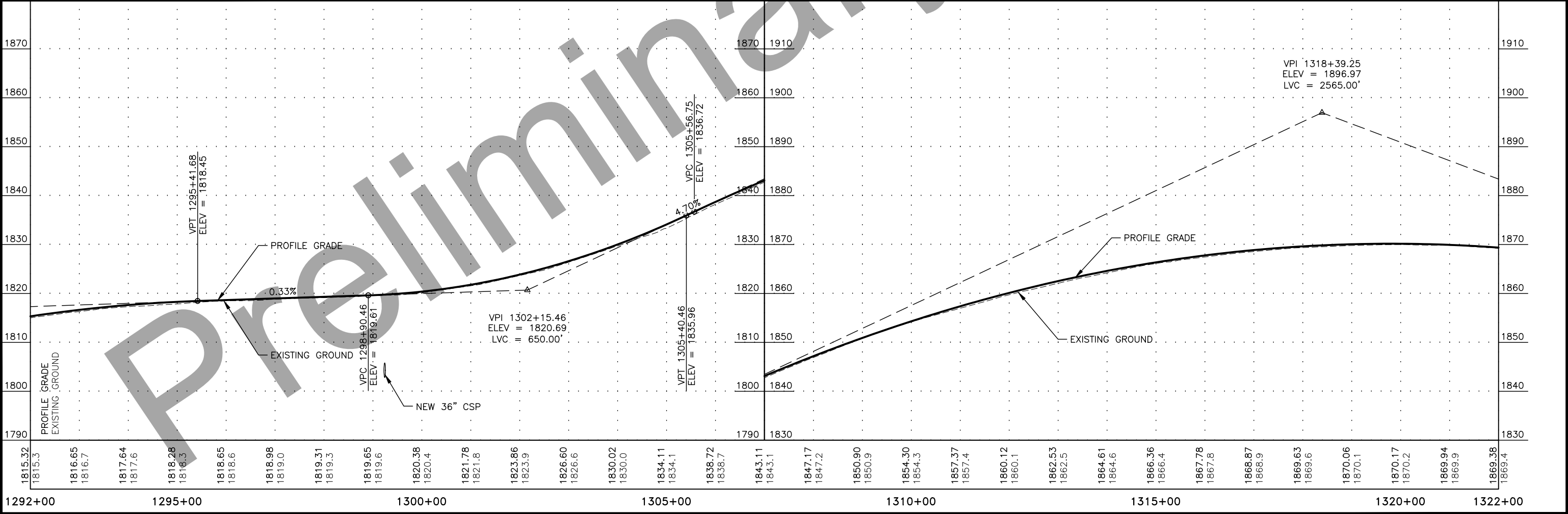
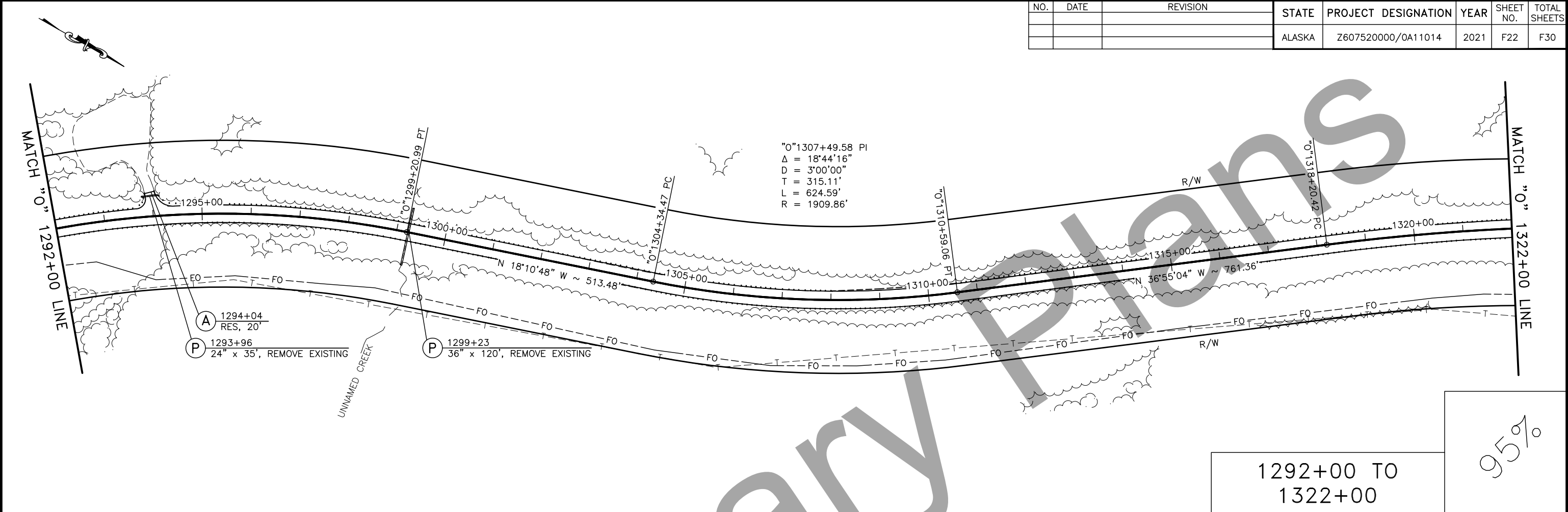
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
C:\Users\craiglenatta\AppData\Local\Bentley\Projectwise\workingdir\mb-us-pw-bentley.com_mb-us-pw-02_craiglenatta@mbakerintl.com\dms35341\60752_F_recovery1-1262+00 TO 1292+00 Wed, Sep/08/21 04:36pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F21	F30



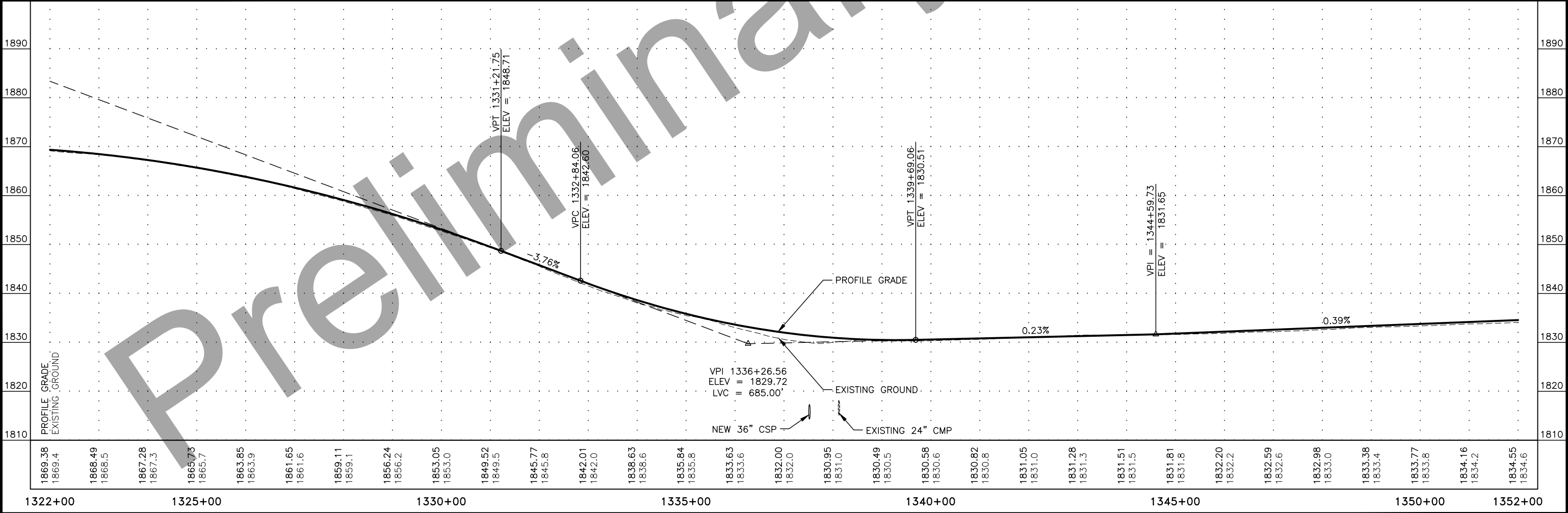
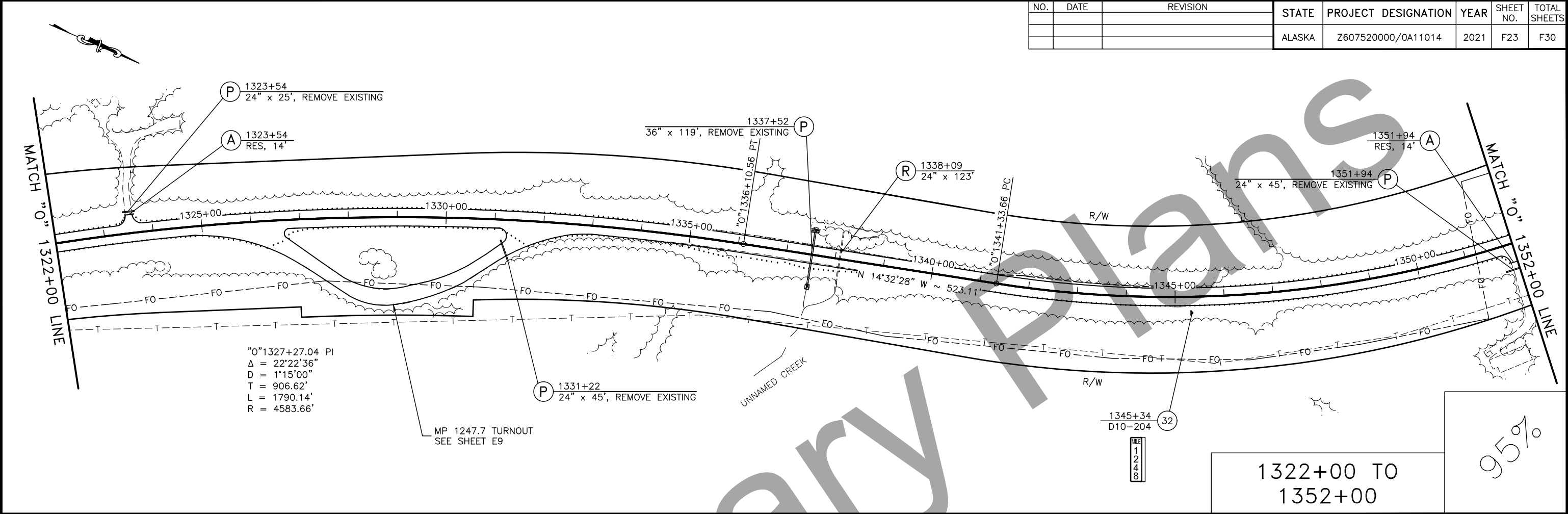
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F22	F30

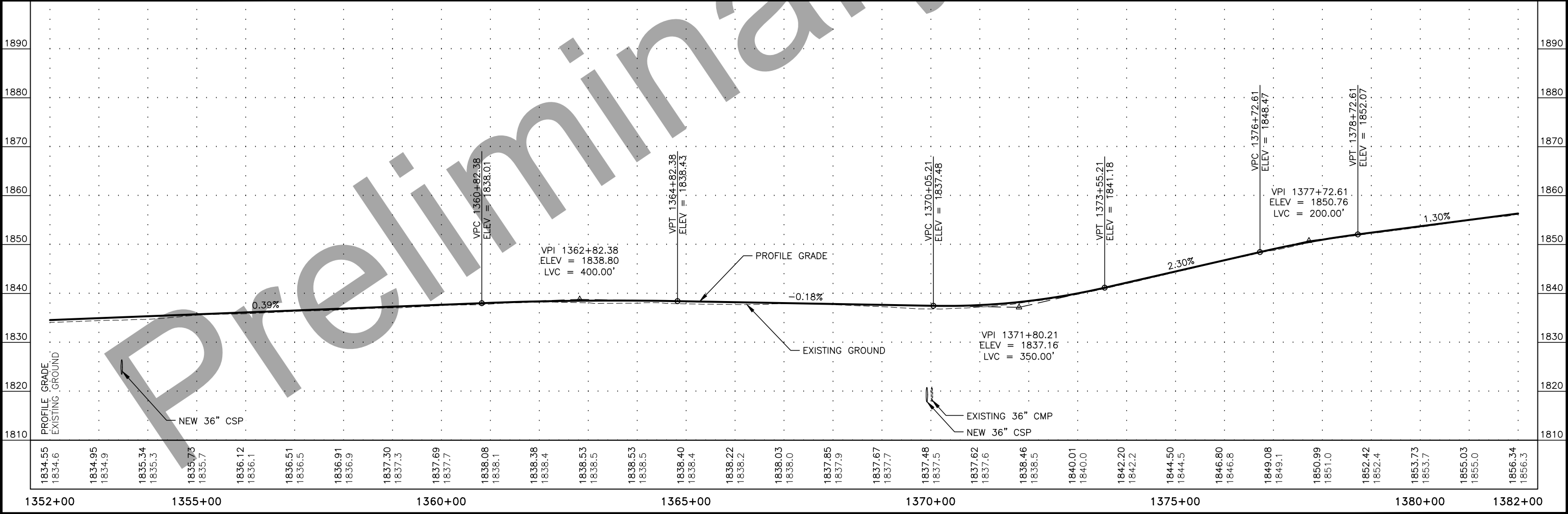
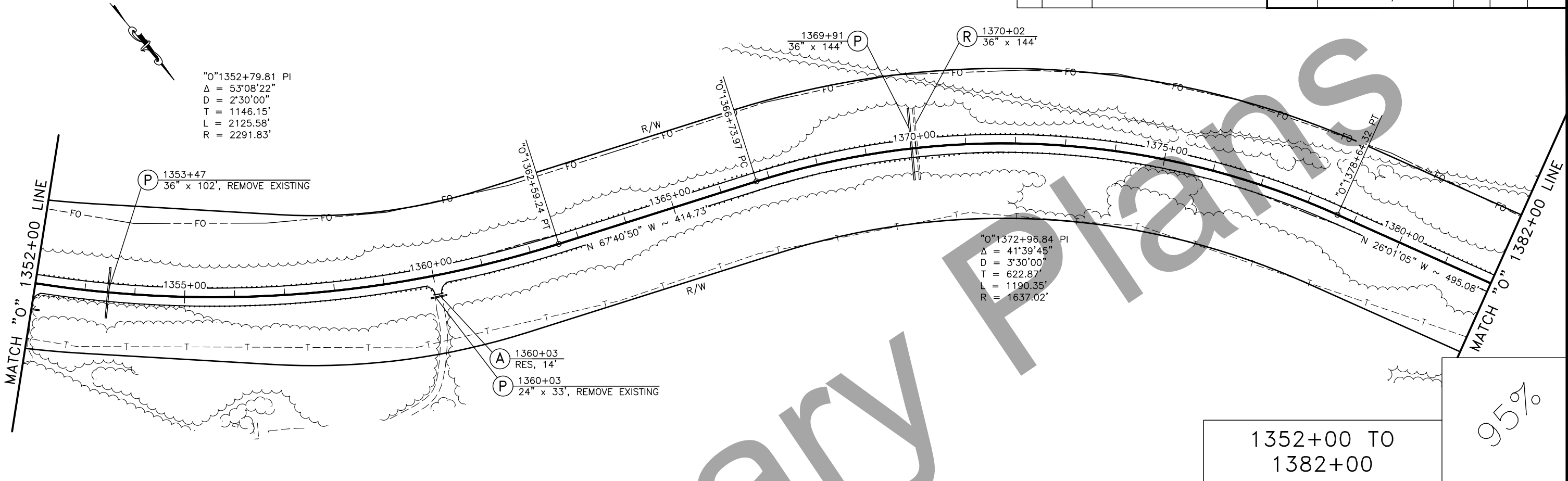


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F23	F30

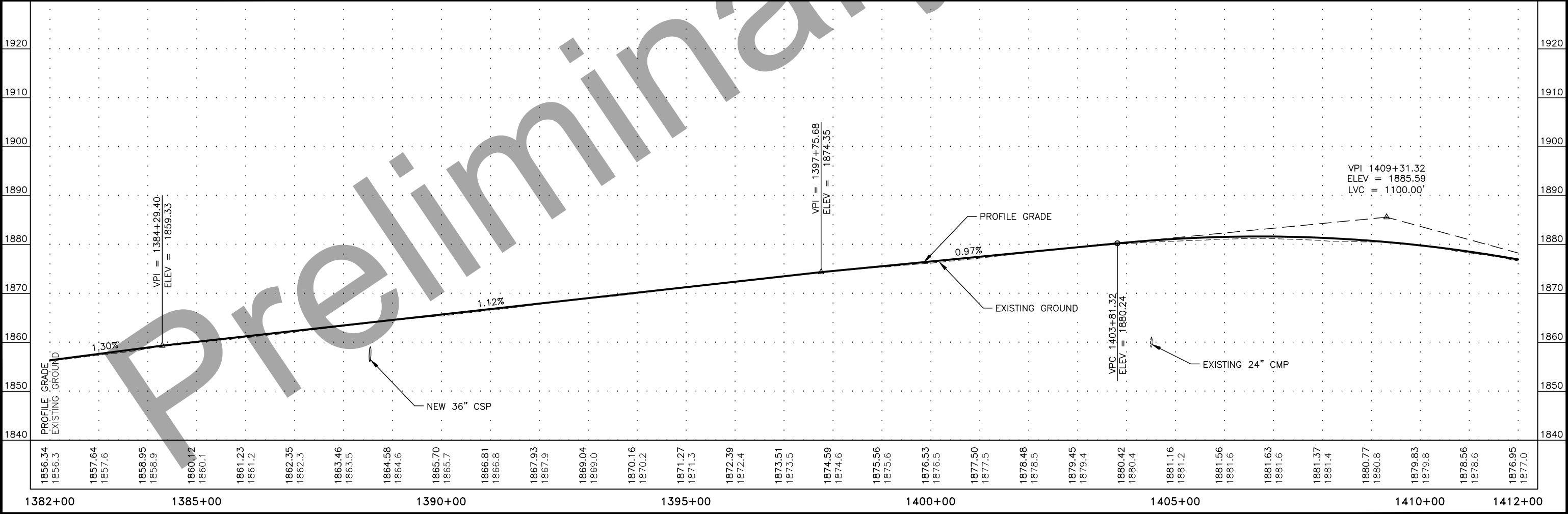
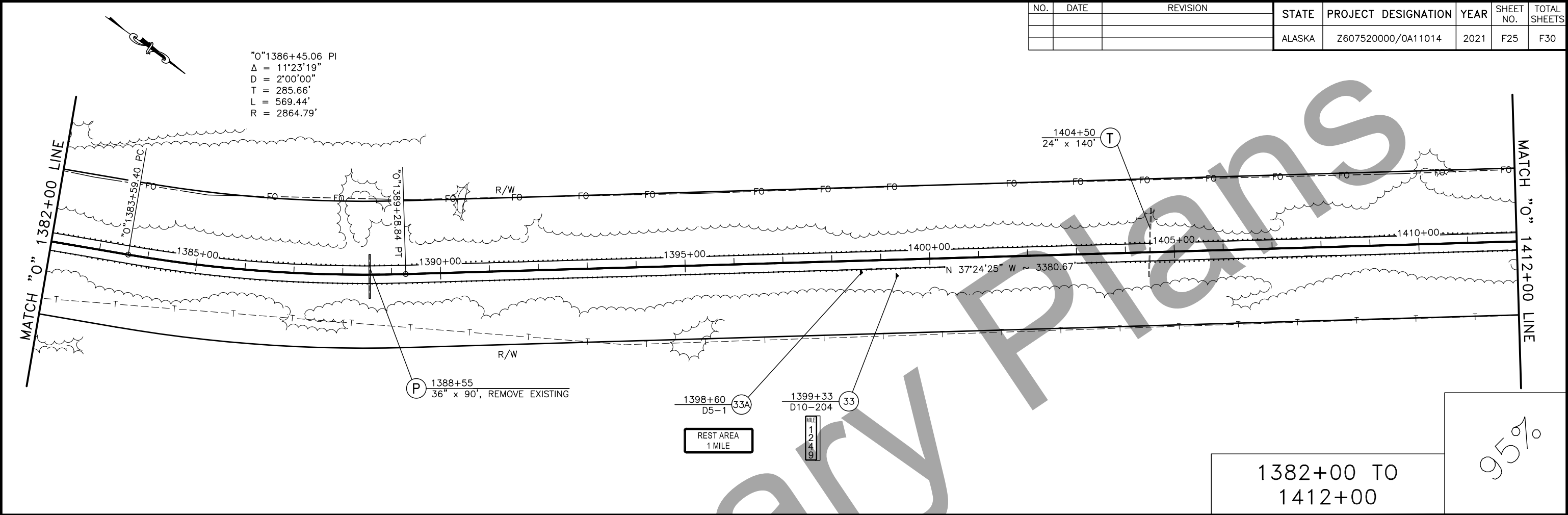


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F24	F30



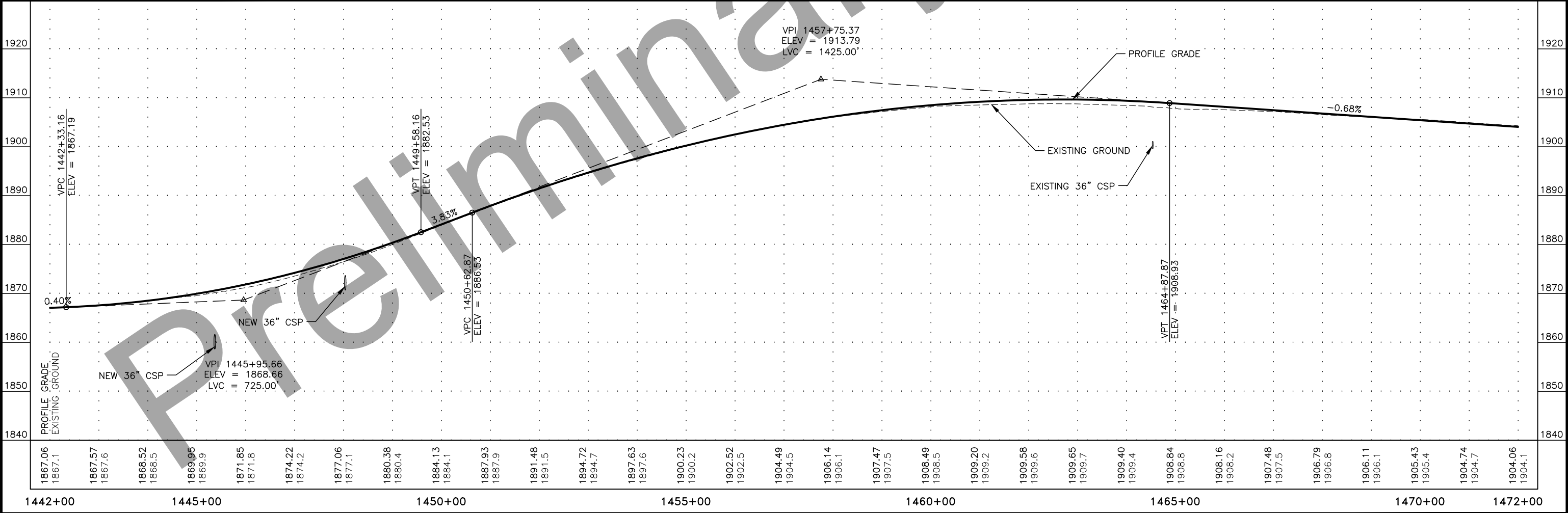
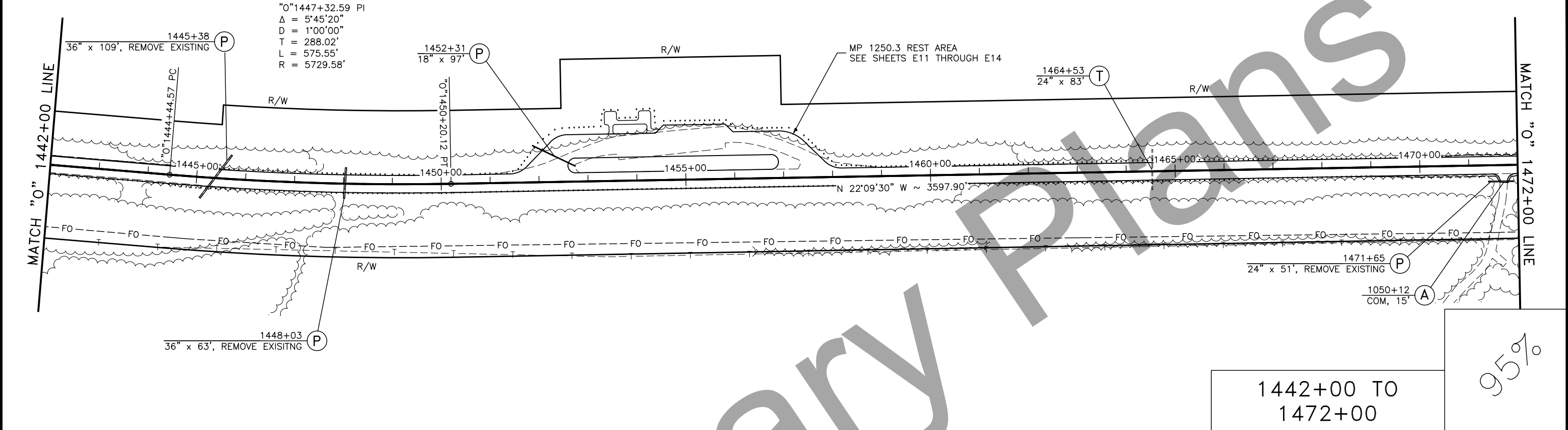
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F25	F30



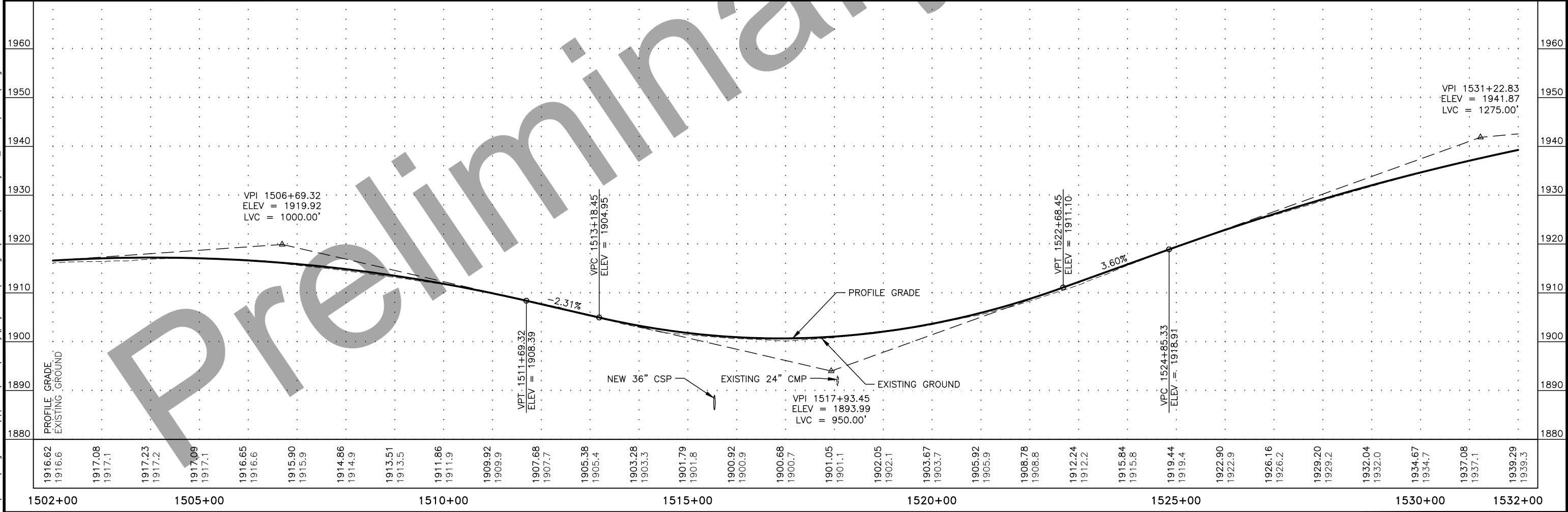
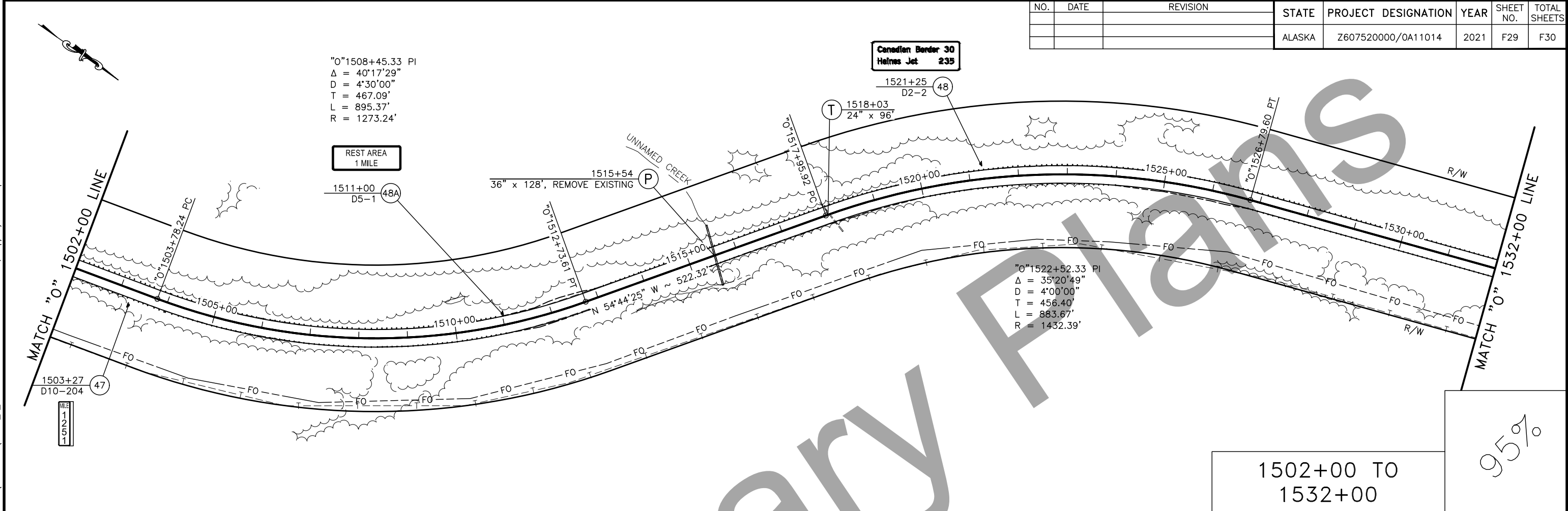
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F27	F30



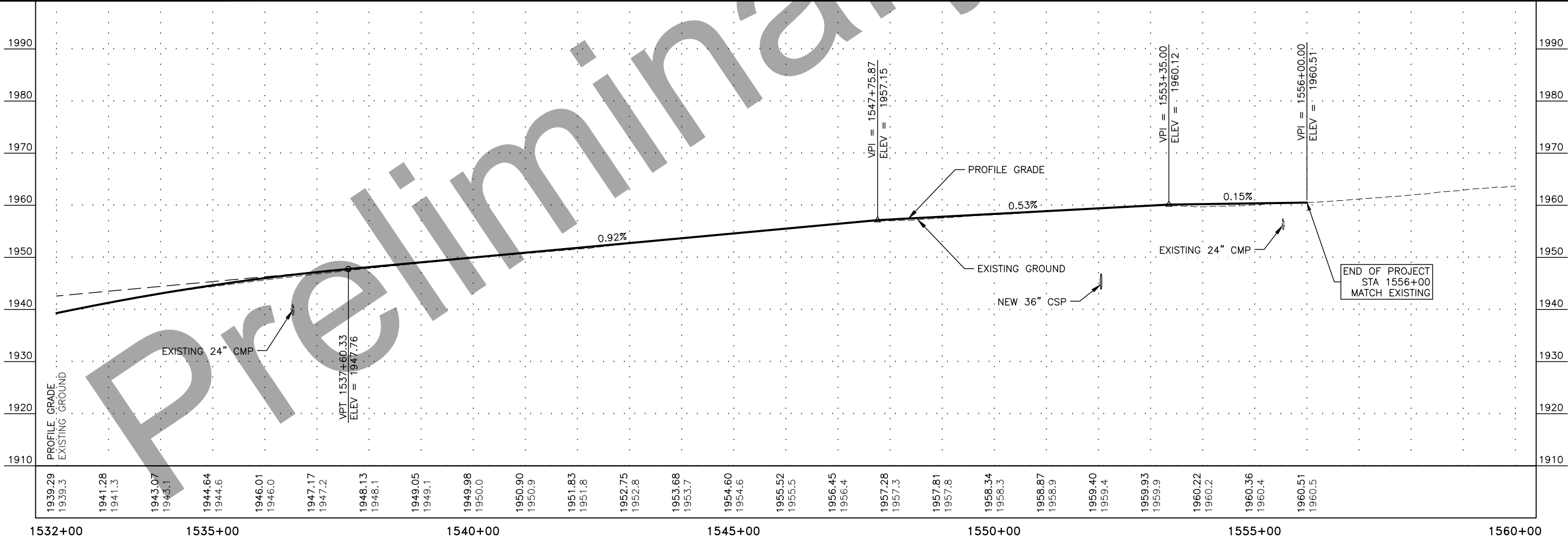
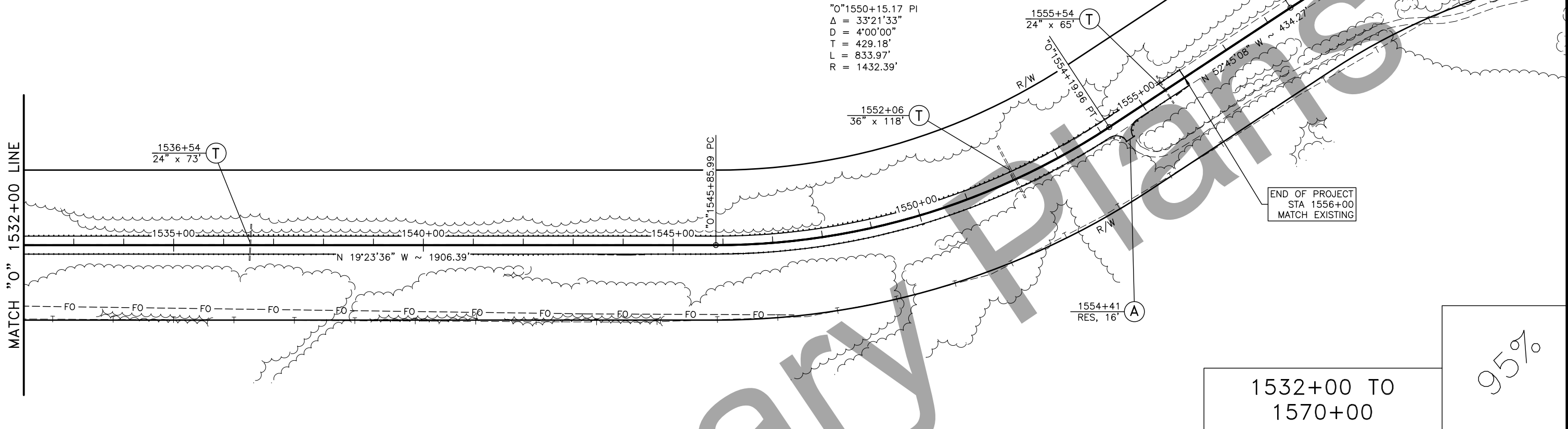
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	F29	F30



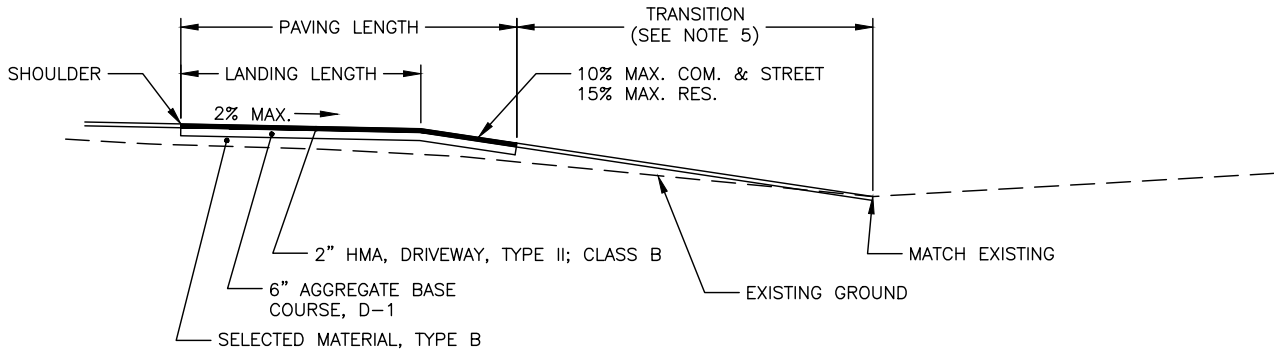
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	F30	F30

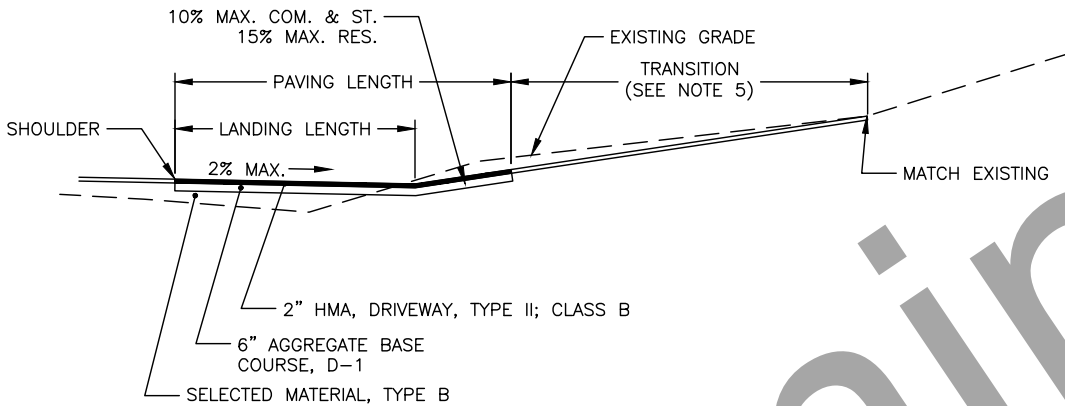


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AECC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
C:\Users\craig.lennatta\AppData\Local\Bentley\Projectwise\workingdir\mb-us-pw-bentley.com_mb-us-pw-02\craig.lennatta@mbakerintl.com\60752_G-DRIVEWAY DETAILS AND SUMMARY Wed, Sep/08/21 04:37pm

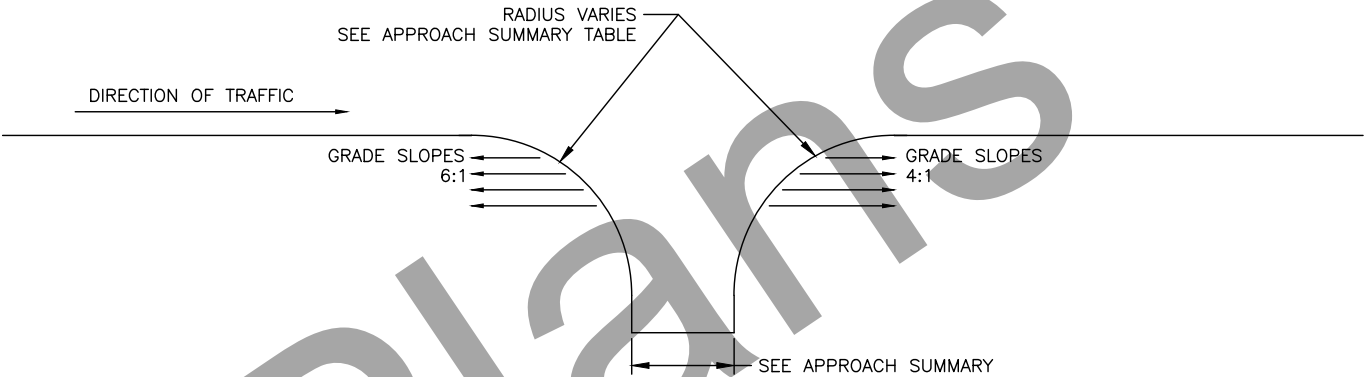
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	G1	G1



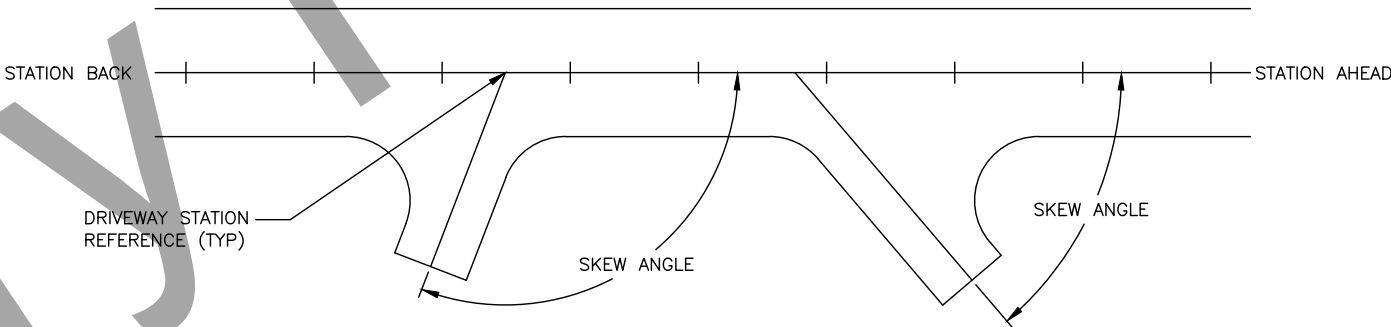
DRIVEWAY ELEVATION – FILL CONDITION



DRIVEWAY ELEVATION – CUT CONDITION



INTERSECTION DETAIL
DRIVEWAY INTERSECTION



STATION REFERENCE DETAIL

639.0001.0000 – DRIVEWAY SUMMARY								
STATION	RT/LT	WIDTH (FT)	TYPE	RADIUS (FT)		PAVING LENGTH (FT)	SKEW ANGLE (DEGREES)	REMARKS
				AHD STA	BK STA			
814+89	RT	24	COMMERCIAL	25	25	25	90	PARADISE PIT ACCESS ROAD
899+29	LT	14	RESIDENTIAL	30	30	30	90	
905+50	LT	17	RESIDENTIAL	25	25	29	83	
947+67	RT	24	COMMERCIAL	150	20	66	139	
1050+12	RT	14	RESIDENTIAL	20	20	20	90	
1272+42	LT	24	COMMERCIAL	40	40	40	90	PULL OFF FOR GARDINER CREEK
1294+04	LT	20	RESIDENTIAL	40	20	32	100	
1323+54	LT	14	RESIDENTIAL	20	20	20	90	
1351+94	RT	14	RESIDENTIAL	20	20	20	90	
1360+03	RT	14	RESIDENTIAL	20	20	20	90	
1414+92	LT	24	COMMERCIAL	40	40	40	90	DEADMAN LAKE ROAD
1471+74	RT	15	COMMERCIAL	15	15	17	95	GRANITE HILL ACCESS ROAD
1554+41	RT	16	RESIDENTIAL	25	25	25	90	

LANDING LENGTH TABLE	
TYPE	LENGTH
COMMERCIAL	30'
RESIDENTIAL	10'

DRIVEWAY DETAILS
AND SUMMARY

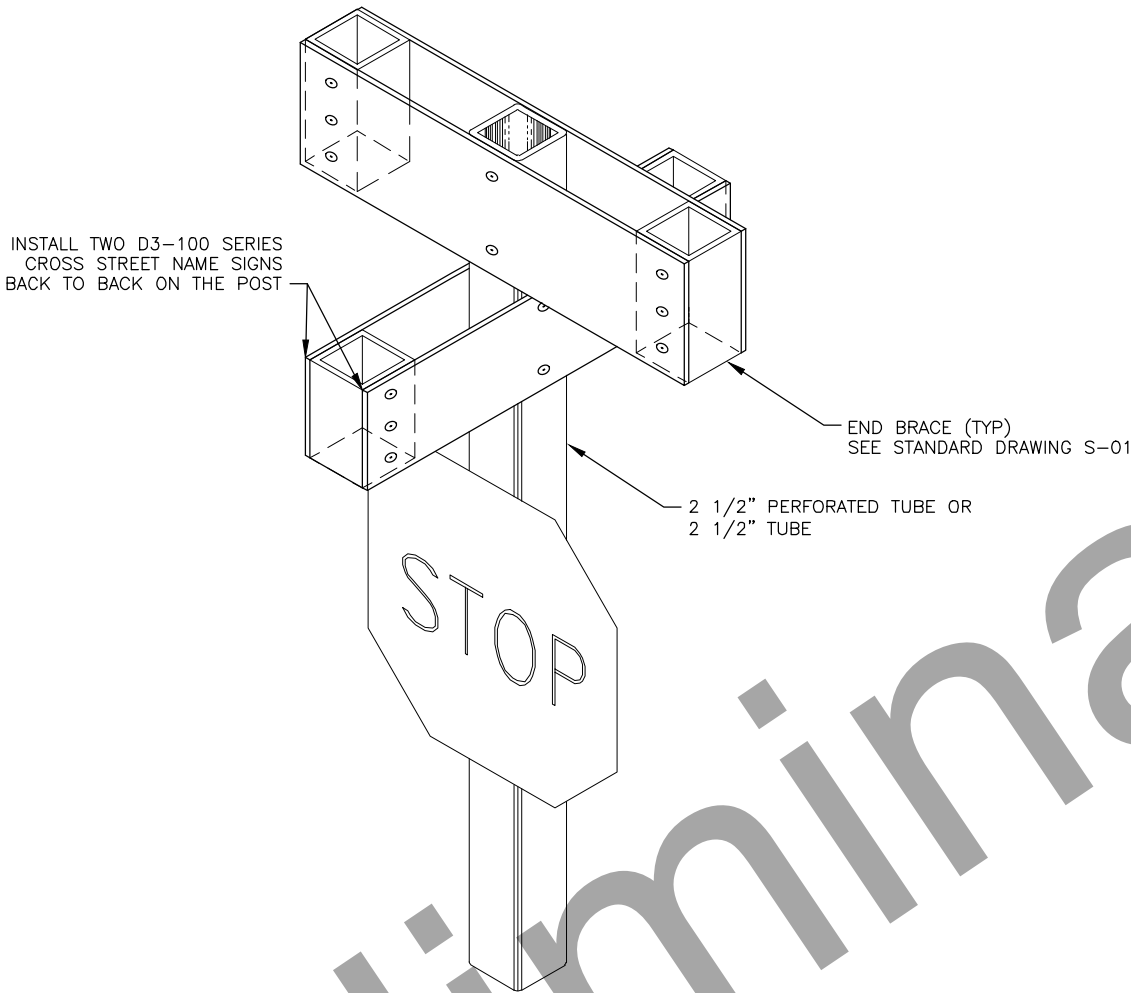
95%

DRIVEWAY NOTES

1. CONSTRUCT DRIVEWAY APPROACHES IN THE LOCATION AND TO THE DIMENSIONS SHOWN IN THE APPROACH SUMMARY TABLE AND DETAILS.
2. APPROACH TRANSITIONS, DIMENSIONS, AND LOCATIONS MAY BE FIELD ADJUSTED BY THE ENGINEER.
3. RE-GRADING DRIVEWAY SLOPES IS SUBSIDIARY TO PAY ITEM 639.0001.0000.
4. ASPHALT REQUIRED FOR APPROACHES WILL BE PAID UNDER PAY ITEM 401.0012.002B HMA, DRIVEWAY, TYPE II; CLASS B.
5. PAVED TRANSITIONS – PAVE THE TRANSITIONS IDENTIFIED IN THE APPROACH SUMMARY TABLE. MATCH THE PAVEMENT SECTION OF THE APPROACH. SAW CUT THE EXISTING ASPHALT AT THE MATCH POINT AND APPLY TACK COAT TO THE FACE OF SAWCUT. IF EXISTING TRANSITION IS PAVED, IT MAY BE REMOVED BY EXCAVATION OR OTHER MEANS. REMOVAL OF THE EXISTING PAVEMENT IS SUBSIDIARY TO PAY ITEM 639.0001.0000 DRIVEWAYS

UNPAVED TRANSITIONS – RECONSTRUCT THE UNPAVED AREA USING AGGREGATE BASE COURSE E-1

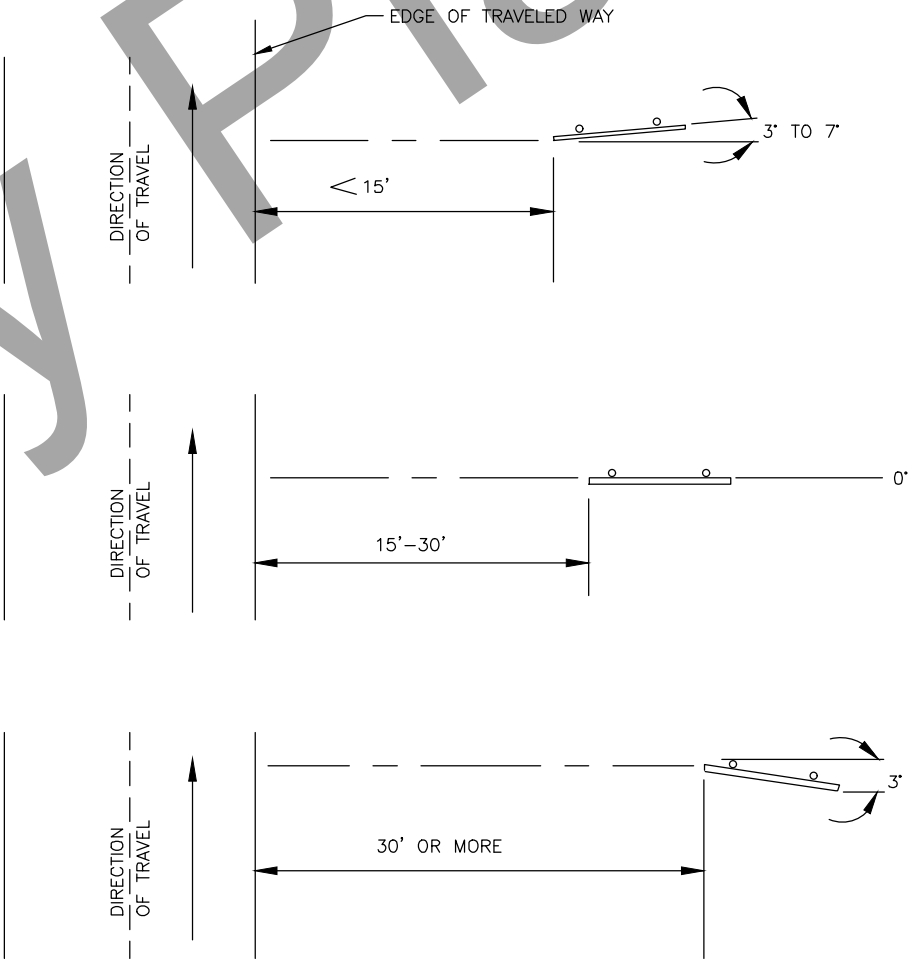
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000	2021	H1	H7



STREET NAME SIGN MOUNTING DETAIL

STREET NAME SIGN NOTE:

VERTICALLY SEPARATE R1-1 (STOP) SIGN AND ALL OTHER SIGN ASSEMBLIES MOUNTED ON THE SAME POST BY 2 1/2 INCHES.



SIGN INSTALLATION ANGLES

SIGN DETAILS

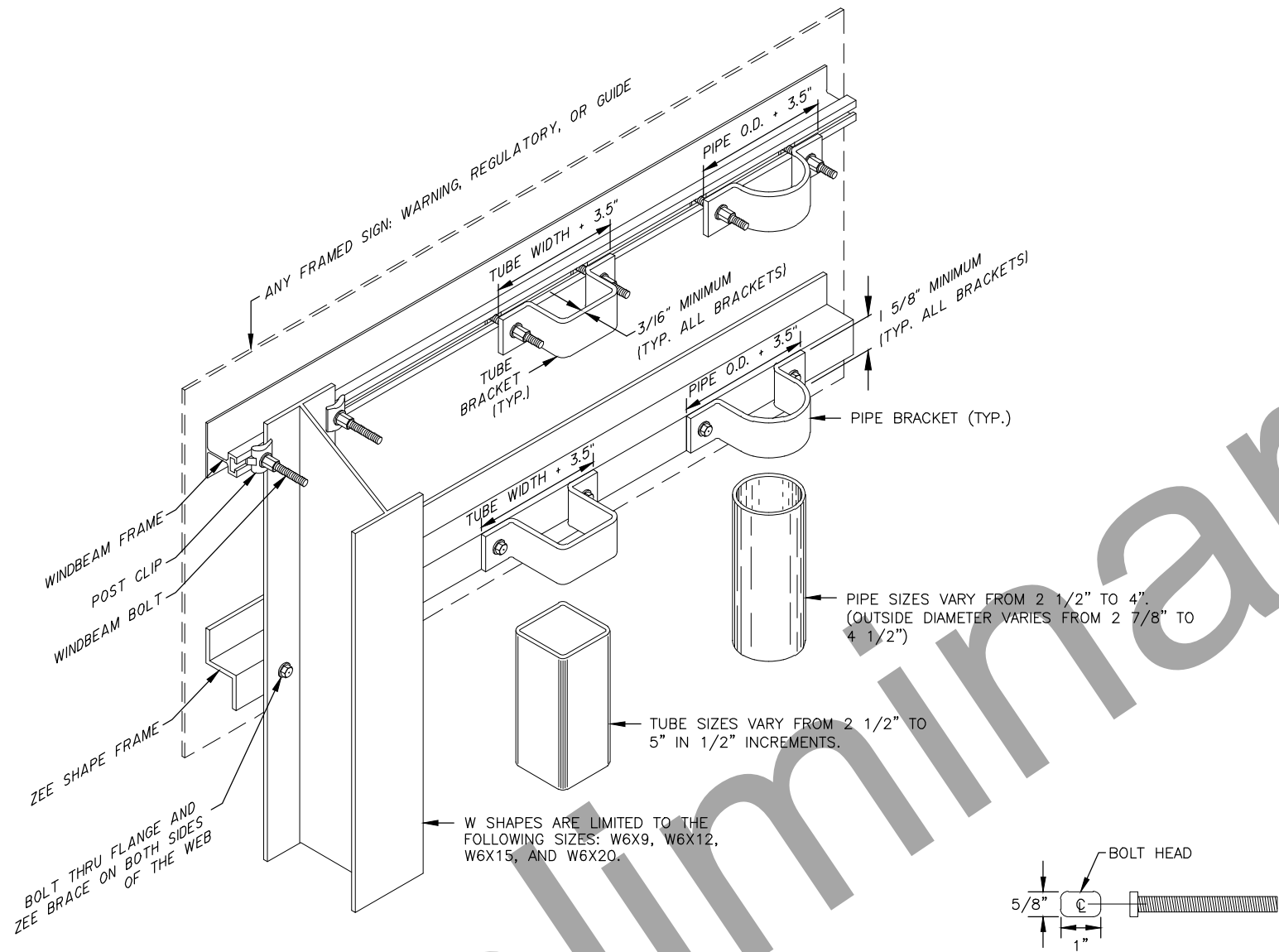
95%

PLANS DEVELOPED BY: LOUNSBURY & ASSOCIATES INC., AEC391, 3230 C STREET SUITE 201, ANCHORAGE, ALASKA 99503, (907) 272-5451
D:\pwise\files\dms35341\60752_H-SIGN DETAIL 1 (2) Frt, Sep/03/21 10:43am

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000	2021	H2	H7

NOTES:

- 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 OR 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.
- THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- ALUMINUM ALLOY 6061-T6 SHALL BE USED FOR ZEE SHAPE FRAMING AND RIVETS.
- ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED STEEL TUBE POSTS WITH ALUMINUM DRIVE RIVETS. SEE "FASTENER SPECIFICATION TABLE" ON SHEET ___?



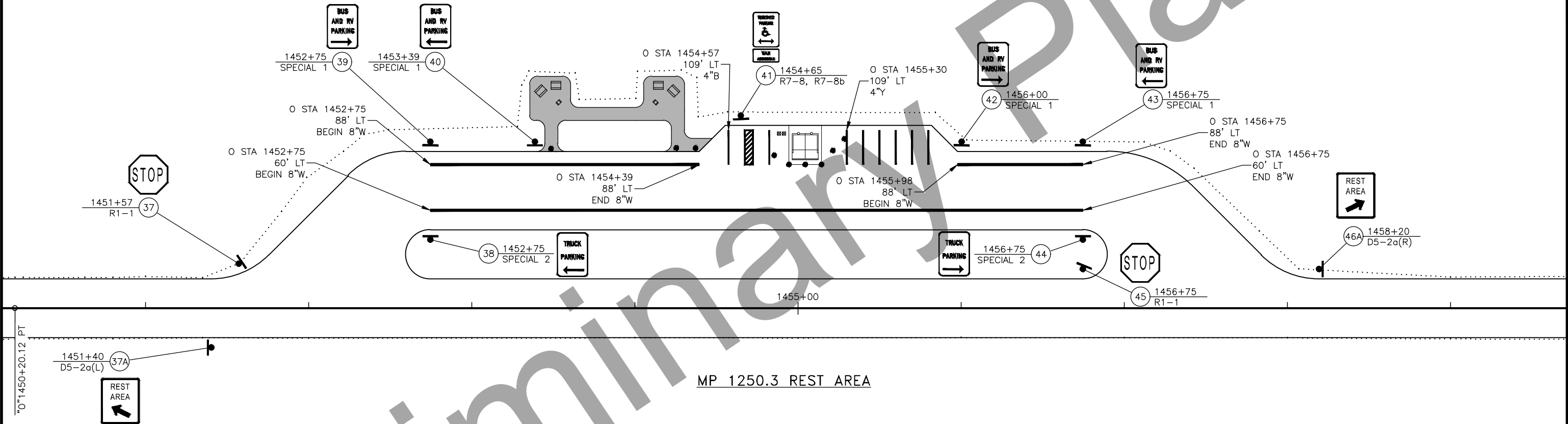
FRAMED SIGN ATTACHMENT BRACKETS

3/8" WINDBEAM BOLT

FRAMED SIGN
ATTACHMENT DETAIL

95%

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000	2021	H3	H7

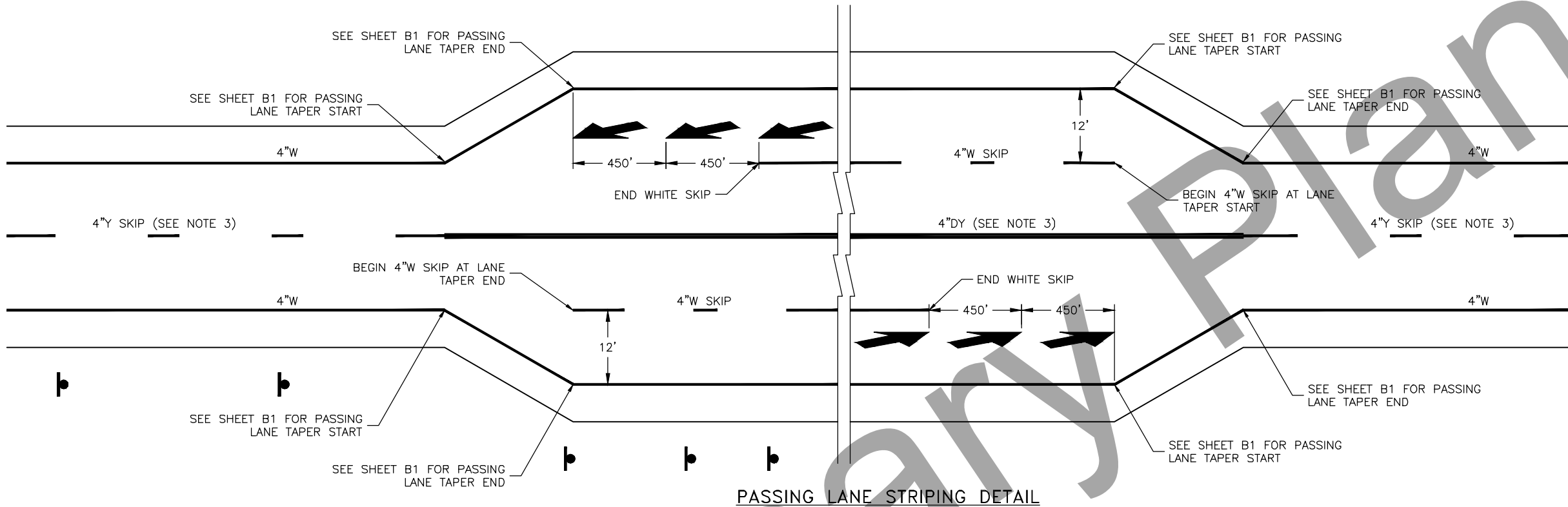


REST STOP SIGNING AND
STRIPING DETAILS

95%

PLANS DEVELOPED BY: LOUNSBURY & ASSOCIATES INC., AEC391, 3030 C STREET SUITE 201, ANCHORAGE, ALASKA 99503, (907) 272-5451
D:\pwise\file\dms35341\60752_H-PASSING LANE STRIPING DETAILS Fr, Sep/03/21 10:45am

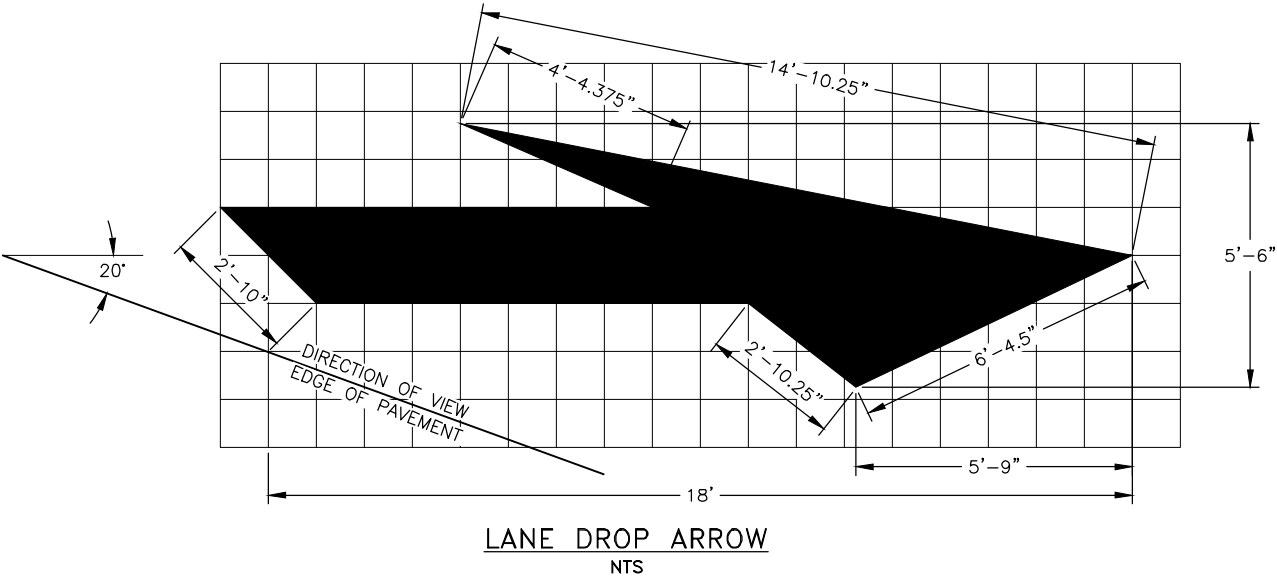
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000	2021	H4	H7



STRIPING NOTES

- DIMENSIONS ARE TO CENTER OF STRIPE.
- PLACE PAVEMENT MARKINGS IN ACCORDANCE WITH STANDARD DRAWING I-30.10 AND SECTION 670.
- FOR PASSING LANES ON ONLY ONE SIDE, PASS/NO PASS ZONES IN THE DIRECTION OPPOSING THE PASSING LANE WILL BE DETERMINED ACCORDING TO SECTION 670. USE CENTERLINE STRIPING TO ALLOW PASSING IN PASS ZONES.
- STRIPING FOR PARKING STALLS WILL BE 4" YELLOW UNLESS OTHERWISE NOTED.
- THE PAINTED TRAFFIC MARKING SUMMARY IS FOR INFORMATION ONLY AND WILL NOT BE USED FOR MEASUREMENT OR PAYMENT PURPOSES.
- SEE F SHEETS AND SIGN SUMMARY FOR REST STOP AND PASSING LANE SIGNING LAYOUT.
- 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 INSTALLED ACCORDING TO 670-3.05, PRELIMINARY SPOTTING.

670.0001.0000 PAINTED TRAFFIC MARKINGS SUMMARY		
DESCRIPTION	QUANTITY	REMARKS
4"W	177400 LF	
4"W SKIP	11100 LF	
4"Y	20600 LF	
4"Y SKIP	46400 LF	
4"DY	49500 LF	
4"B	42 LF	
SYMBOLS	8 EACH	



PASSING LANE STRIPING
DETAILS

95%

PLANS DEVELOPED BY: LOUNSBURY & ASSOCIATES INC., AEC391, 3230 C STREET SUITE 201, ANCHORAGE, ALASKA 99503, (907) 272-5451
D:\pwise\file\dms35341\60752_H-SIGN SUMMARY 1 Fri, Sep/03/21 10:46am

SIGNING SUMMARY															
LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE H X V	BRACING/ FRAMING		AREA	MTG. HGT.	DIR.	POST			REMARKS
		LT.	RT.			(INCHES)	BRACED	FRAMED	(SQ.FT.)	(FT.)		TYPE	SIZE (INCHES)	NO.	
1	670+73		X	D10-204	MILE 1235	14 X 45			4.38		N/S	PST	2.5	1	MESSAGE ON BOTH SIDES
2	722+51		X	D10-204	MILE 1236	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
3	775+56		X	D10-204	MILE 1237	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
4	827+20		X	D10-204	MILE 1238	14 X 45			4.38		N/S	PST	2.5	1	MESSAGE ON BOTH SIDES
5	876+38		X	D10-204	MILE 1239	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
6	928+70		X	D10-204	MILE 1240	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
7	970+40		X	D17-2	PASSING LANE 2 MILE	42 X 42	X		12.25		SE	PST	2.5	1	
8	981+12		X	D10-204	MILE 1241	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
9	1032+84		X	D10-204	MILE 1242	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
10	1051+45		X	D17-2	PASSING LANE 1/2 MILE	42 X 42	X		12.25		SE	PST	2.5	1	
11	1081+20		X	R4-3	SLOWER TRAFFIC KEEP RIGHT	24 X 30			5.00		SE	PST	2.5	1	
12	1085+83		X	D10-204	MILE 1243	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
13	1097+00	X		W4-2R	LANE ENDS	30 X 30			6.25		NW	PST	2.5	1	
14	1102+00	X		W9-1R W16-3P	RIGHT LAND ENDS 1/2 MILE	30 X 30 24 X 30			6.25 5.00		NW	PST	2.5	1 1	
15	1103+53		X	D9-102 D9-308	SCENIC VIEWS 1500 FT						SE				EXISTING SIGN, REMOVE AND RELOCATE
16	1118+00		X	W9-1R W16-3P	RIGHT LAND ENDS 1/2 MILE	30 X 30 24 X 30	X		6.25 5.00		SE	PST	2.5	1 1	
17	1123+00		X	W4-2R	LANE ENDS	30 X 30	X		6.25		SE	PST	2.5	1	
18	1137+71		X	D10-204	MILE 1244	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
19	1141+80	X		R4-3	SLOWER TRAFFIC KEEP RIGHT	24 X 30			5.00		NW	PST	2.5	1	
20	1173+58	X		D17-2	PASSING LANE 1/2 MILE	42 X 42	X		12.25		W	PST	2.5	1	
21	1190+50		X	D10-204	MILE 1245	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
22	1241+47		X	D10-204	MILE 1246	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
23	1252+61	X		D17-2	PASSING LANE 2 MILE	42 X 42	X		12.25		NW	PST	2.5	1	
24	1272+12	X		R1-1	STOP	30 X 30	X		6.25		SW	PST	2.5	1	
25	1273+19		X	I-3	GARDINER CREEK	24 X 18			3.00		SE	PST	2.5	1	
26	1273+58		X	OM-3R	STRIPED OBJECT MARKER	12 X 36			3.00		SE	PST	2.5	1	
27	1273+59	X		OM-3L	STRIPED OBJECT MARKER	12 X 36			3.00		NW	PST	2.5	1	
							SUBTOTAL =		161.75						

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

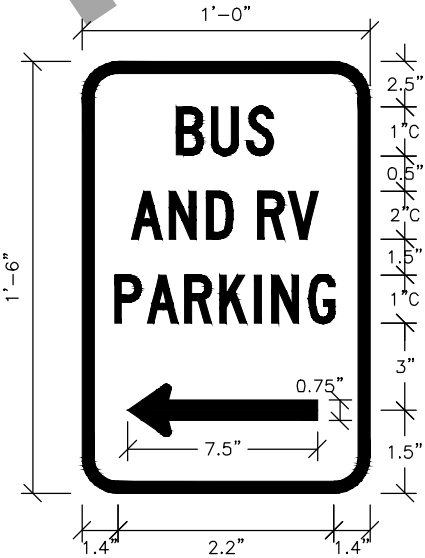
POST TYPE LEGEND:

PST = PERFORATED STEEL TUBE
TS = TUBE STEEL (SQUARE STRUCTURAL STEEL TUBING)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000	2021	H5	H7

NOTES:

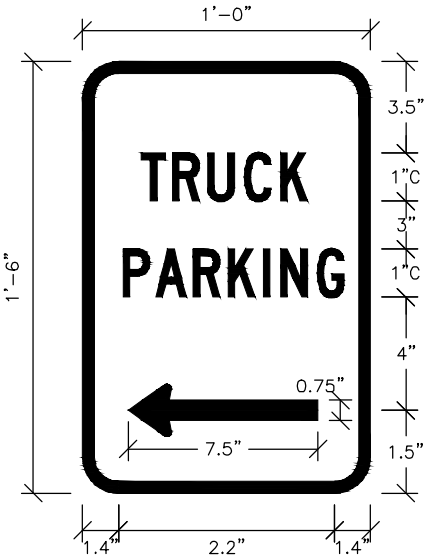
- MOUNTING HEIGHTS ARE PER STANDARD DRAWING S-05.02 UNLESS OTHERWISE NOTED.
- INSTALL PST SIGN POSTS WITH SLEEVE TYPE SOIL EMBEDMENT PER STANDARD DRAWING S-30.05. ATTACH THE SIGN POST TO THE SLEEVE USING GALVANIZED 3/8" BOLT, NUT, SPLIT LOCK WASHER AND TWO FLAT WASHERS.
- STAINLESS STEEL FASTENER HARDWARE MAY BE USED INSTEAD OF GALVANIZED. 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.
- LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO: PIPELINES, STORM SEWERS, AND TELEPHONE AND ELECTRICAL CABLES PRIOR TO INSTALLING SIGN POSTS. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON THE PLANS.
- CLEARING MAY BE REQUIRED TO ENSURE ADEQUATE VISIBILITY OF SIGNS. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.
- INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED STEEL TUBE.
- PRIOR TO THE REMOVAL OF AN EXISTING SIGN POST, INSPECT FOR DAMAGE AND REUSE FOR NEW SIGN AS DIRECTED BY THE ENGINEER.



BORDER
RADIUS=1.5"
WIDTH=0.38"
INSET=0.38"
BORDER AND LEGEND: GREEN
BACKGROUND: WHITE

SPECIAL 1

NOTE: LEFT ARROW DIRECTION SHOWN, MIRROR FOR RIGHT.



BORDER
RADIUS=1.5"
WIDTH=0.38"
INSET=0.38"
BORDER AND LEGEND: GREEN
BACKGROUND: WHITE

SPECIAL 2

SIGN SUMMARY

95%

PLANS DEVELOPED BY: LOUNSBURY & ASSOCIATES INC., AEC391, 3230 C STREET SUITE 201, ANCHORAGE, ALASKA 99503, (907) 272-5451
D:\pwise\file\dms35341\60752_H-SIGN SUMMARY 2 Fr, Sep/03/21 10:49am

SIGNING SUMMARY															
LOC. NO.	STATION	LOCATION		ASDS CODE	LEGEND	SIZE H X V	BRACING/ FRAMING		AREA	MTG. HGT.	DIR.	POST			REMARKS
		LT.	RT.			(INCHES)	BRACED	FRAMED	(SQ.FT.)	(FT.)		TYPE	SIZE (INCHES)	NO.	
28	1274+96		X	OM-3L	STRIPED OBJECT MARKER	12 X 36			3.00		SE	PST	2.5	1	
29	1274+98	X		OM-3R	STRIPED OBJECT MARKER	12 X 36			3.00		NW	PST	2.5	1	
30	1275+32	X		I-3	GARDINER CREEK	24 X 18			3.00		NW	PST	2.5	1	
31	1291+61		X	D10-204	MILE 1247	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
32	1345+34		X	D10-204	MILE 1248	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
33A	1398+60		X	D5-1	REST AREA 1 MILE	78 X 36		X	19.50		SE	TS	3X3	1	
33	1399+33		X	D10-204	MILE 1249	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
34	1414+64	X		R1-1	STOP	30 X 30	X		6.25		SW	PST	2.5	1	MOUNT TWO SIGNS BACK TO BACK
				D3-100	ALASKA HWY	48 X 12	X		8.00		SW/NE			2	
				D3-100	DEADMAN LK	53 X 12	X		8.83		SE/NW			2	
35	1422+13	X		D7-100	DEADMAN LAKE CAMPGROUND						NW				EXISTING SIGN, REMOVE AND RELOCATE
36	1439+98		X	D10-204	MILE 1250	14 X 45			4.38		NW/SE	PST	2.5	1	MESSAGE ON BOTH SIDES
37A	1451+40		X	D5-2a(L)	REST AREA GORE	42 X 48		X	14.00		SE	TS	3X3	1	
37	1451+57	X		R1-1	STOP	30 X 30	X		6.25		NW	PST	2.5	1	
38	1452+75	X		SPECIAL 2	TRUCK PARKING WITH LEFT ARROW SYMBOL	12 X 18			1.50		E	PST	2.5	1	
39	1452+75	X		SPECIAL 1	BUS AND RV PARKING WITH RIGHT ARROW SYMBOL	12 X 18			1.50		W	PST	2.5	1	
40	1453+39	X		SPECIAL 1	BUS AND RV PARKING WITH LEFT ARROW SYMBOL	12 X 18			1.50		E	PST	2.5	1	
41	1454+65	X		R7-8	RESERVED PARKING WITH HANDICAP SYMBOL	12 X 18			1.50		NE	PST	2.5	1	
				R7-8b	VAN ACCESSIBLE	8 X 9			0.50				1		
42	1456+00	X		SPECIAL 1	BUS AND RV PARKING WITH RIGHT ARROW SYMBOL	12 X 18			1.50		E	PST	2.5	1	
43	1456+75	X		SPECIAL 1	BUS AND RV PARKING WITH LEFT ARROW SYMBOL	12 X 18			1.50		E	PST	2.5	1	
44	1456+75	X		SPECIAL 2	TRUCK PARKING WITH RIGHT ARROW SYMBOL	12 X 18			1.50		W	PST	2.5	1	
45	1456+75	X		R1-1	STOP	30 X 30	X		6.25		W	PST	2.5	1	
46A	1458+20	X		D5-2a(R)	REST AREA GORE	42 X 48			14.00		NW	TS	3X3	1	
46	1491+55		X	D17-2	PASSING LANE 2 MILE	42 X 42	X		12.25		S	PST	2.5	1	SIGN TO BE INSTALLED DURING PHASE II CONSTRUCTION
47	1503+27		X	D10-204	MILE 1251	14 X 45			4.38		N/S	PST	2.5	1	MESSAGE ON BOTH SIDES
48A	1511+00	X		D5-1	REST AREA 1 MILE	78 X 36		X	19.50		NW	TS	3X3	1	
48	1521+25	X		D2-2	CANADIAN BORDER 30 HAINES JCT 235	84 X 30	X		17.50		NW	TS	3X3	1	
						SUBTOTAL =			174.21						
						PROJECT TOTAL =			335.96						

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000	2021	H6	H7

POST TYPE LEGEND:

PST = PERFORATED STEEL TUBE
TS = TUBE STEEL (SQUARE STRUCTURAL STEEL TUBING)
W_X_ = WIDE FLANGE

SIGN SUMMARY

95%

PLANS DEVELOPED BY: LOUNSBURY & ASSOCIATES INC., AECC391, 3230 C STREET SUITE 201, ANCHORAGE, ALASKA 99503, (907) 272-5451
D:\pwise\files\dms35341\60752_H-SIGN SALVAGE SUMMARY Fr1_Sep/03/21 10:53am

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000	2021	H7	H7

SIGN SALVAGE SUMMARY							
LOC. NO.	STATION	LOCATION LT. RT.		ASDS CODE	LEGEND	NO.	REMARKS
1	670+73		X	D10-204	MILE 1235	1	
2	722+51		X	D10-204	MILE 1236	1	
3	775+56		X	D10-204	MILE 1237	1	
4	827+20		X	D10-204	MILE 1238	1	
5	876+38		X	D10-204	MILE 1239	1	
6	928+70		X	D10-204	MILE 1240	1	
7	981+12		X	D10-204	MILE 1241	1	
8	1032+84		X	D10-204	MILE 1242	1	
9	1085+83		X	D10-204	MILE 1243	1	
10	1137+71		X	D10-204	MILE 1244	1	
11	1190+50		X	D10-204	MILE 1245	1	
12	1241+47		X	D10-204	MILE 1246	1	
13	1272+12	X		R1-1	STOP	1	
14	1273+19		X	I-3	GARDINER CREEK	1	
15	1273+58		X	OM-3L	STRIPED OBJECT MARKER	1	
16	1273+59	X		OM-3L	STRIPED OBJECT MARKER	1	
17	1274+96		X	OM-3L	STRIPED OBJECT MARKER	1	
18	1274+98	X		OM-3L	STRIPED OBJECT MARKER	1	
19	1275+32	X		I-3	GARDINER CREEK	1	
20	1291+61		X	D10-204	MILE 1247	1	
21	1345+34		X	D10-204	MILE 1248	1	
22	1399+33		X	D10-204	MILE 1249	1	
23	1414+64	X		R1-1	STOP	1	
		X		D3-100	ALASKA HWY	2	
		X		D3-100	DEADMAN LK	2	
24	1436+62		X	RM-120	PICNIC AREA	1	
			X	D9-308	1500 FT	1	
25	1439+98		X	D10-204	MILE 1250	1	
26	1451+57	X		R1-1	STOP	1	
27	1503+27		X	D10-204	MILE 1251	1	
28	1521+25	X		D2-2	CANADIAN BORDER 30 HAINES JCT 235	1	
PROJECT TOTAL =						33	

SIGN SALVAGE SUMMARY

95%

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	N1	N2

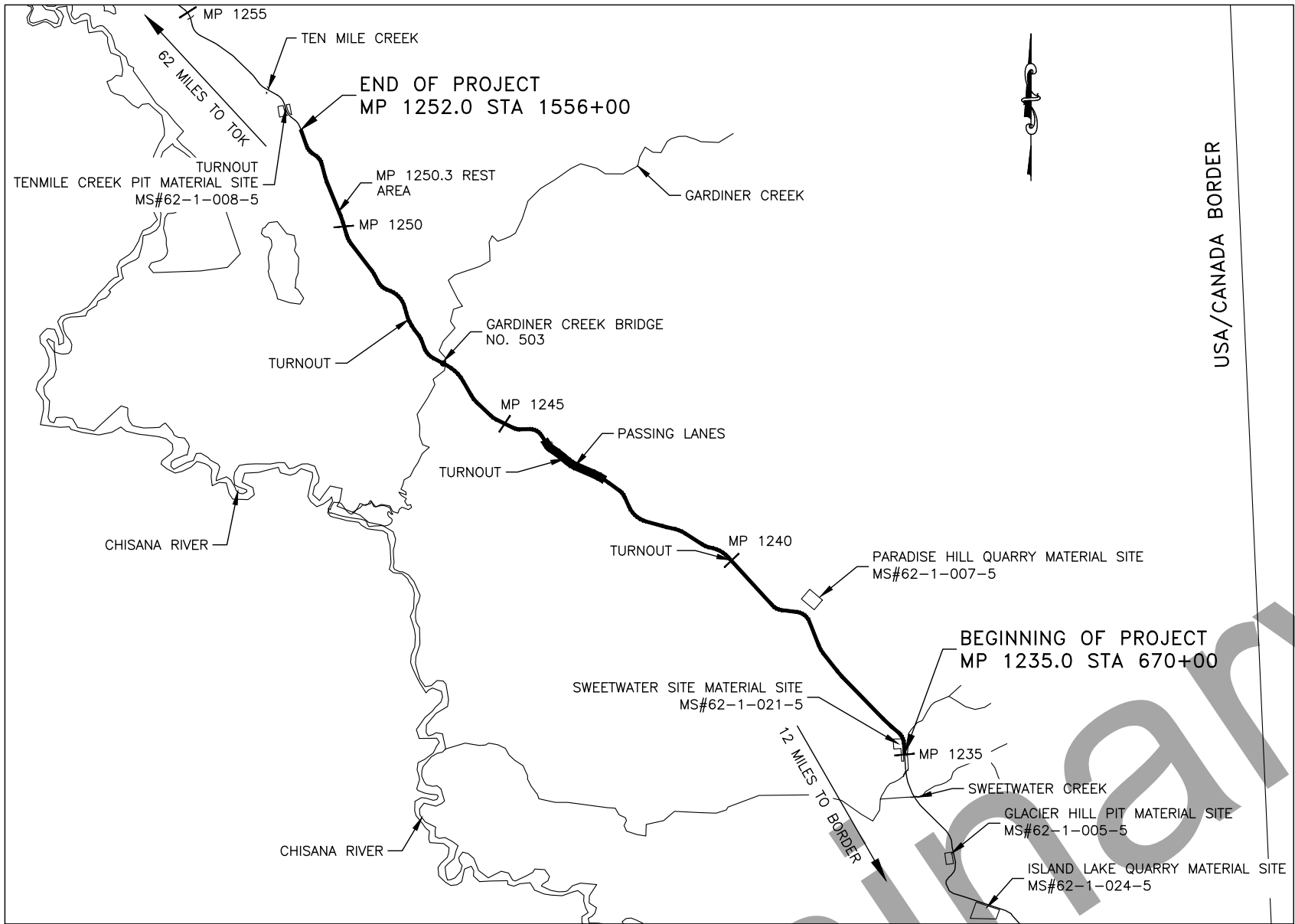
BRIDGE REVETMENTS AND DESIGNS BEING CREATED BY DOT&PF PENDING FINAL

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	N2	N2

BRIDGE REVETMENTS AND DESIGNS BEING CREATED BY DOT&PF PENDING FINAL

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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VICINITY MAP

ENVIRONMENTAL INFORMATION:

- RECEIVING WATER BODIES: ELIZA CREEK, YEGER LAKE, TEN MILE CREEK, GARDINER CREEK, CHISANA RIVER
- IMPAIRED WATER BODIES: N/A
- TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS: N/A
- THREATENED AND ENDANGERED SPECIES: N/A
- HISTORIC PLACES: NAB-00373
- 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 INCHES (SOURCE: WESTERN REGIONAL CLIMATE CENTER WEBSITE FOR NORTHWAY)
- 2-YEAR 24-HOUR PRECIPITATION: 1.24 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: ROLLING SAND DUNES ACROSS LOWLANDS
- 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
618.4 ACRES	100.6 ACRES	12.25 %	12.75 %	0.207	0.207

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q1	Q16

ESCP GENERAL NOTES:

GENERAL:

- READ AND COMPLY WITH THE ADEC CONSTRUCTION GENERAL PERMIT (CGP) AND SECTION 641 OF THE PROJECT SPECIFICATIONS.
- INITIATE EROSION AND SEDIMENT CONTROLS PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
- THE CONTRACTOR MUST PROVIDE EROSION AND SEDIMENT CONTROL (ESC) MEASURES IN ACCORDANCE WITH THEIR SWPPP (STORM WATER POLLUTION PREVENTION PLAN).
- 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.
- STOCKPILE AND STAGING LOCATIONS MUST BE RECLAIMED TO THEIR ORIGINAL CONDITION AS APPROVED BY THE ENGINEER.
- TEMPORARY BMP'S REQUIRED BY THIS ESCP WILL NOT BE MEASURED FOR PAYMENT AND ARE SUBSIDIARY TO PAY ITEM 641.0003.0000.
- EXISTING GROUND CONTOURS ARE DISPLAYED AT 2' MINOR AND 10' MAJOR INTERVALS.
- STABILIZE THE TEMPORARY DIVERSION TO PREVENT EROSION AND SEDIMENT TRANSPORT.

CULVERTS:

- 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.
- PERMANENT CULVERT INLET AND OUTLET PROTECTION IS ESTABLISHED VEGETATION UNLESS OTHERWISE NOTED IN PLANS.

DITCH PROTECTION AND CONCENTRATED FLOWS:

- DURING CONSTRUCTION, PROTECT DITCHES TO LIMIT RELEASE OF SEDIMENT. PROVIDE TEMPORARY DITCH PROTECTION IN THE FORM OF VELOCITY CONTROLS OR TEMPORARY NON-ERODIBLE LINING.
- EXPOSED MATERIAL OF NEW DITCHES CAPABLE OF SUPPORTING VEGETATION MUST BE SEEDED PER THE PLANS FOR FINAL STABILIZATION.
- 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:

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

STOCKPILE PROTECTION:

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

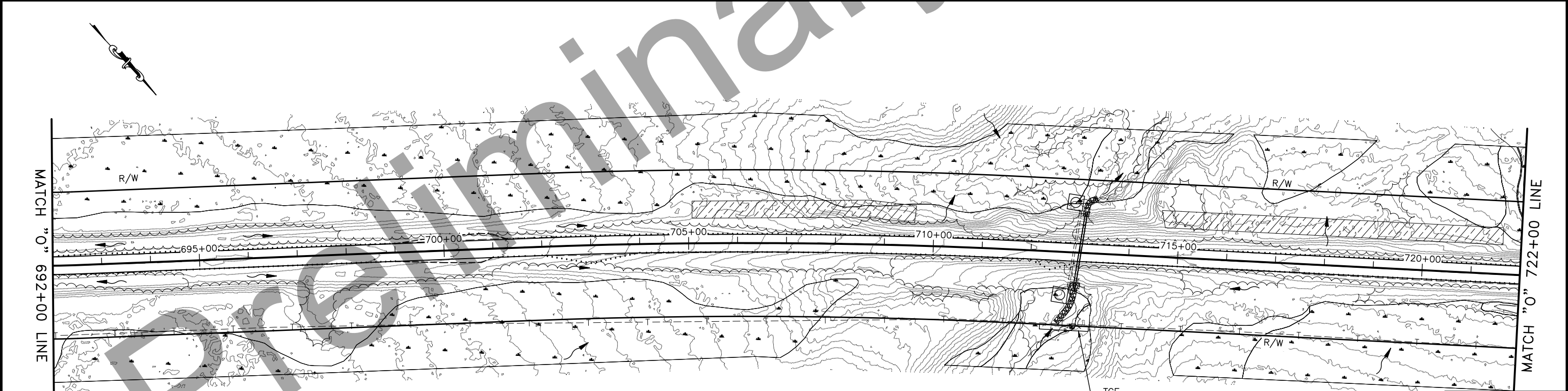
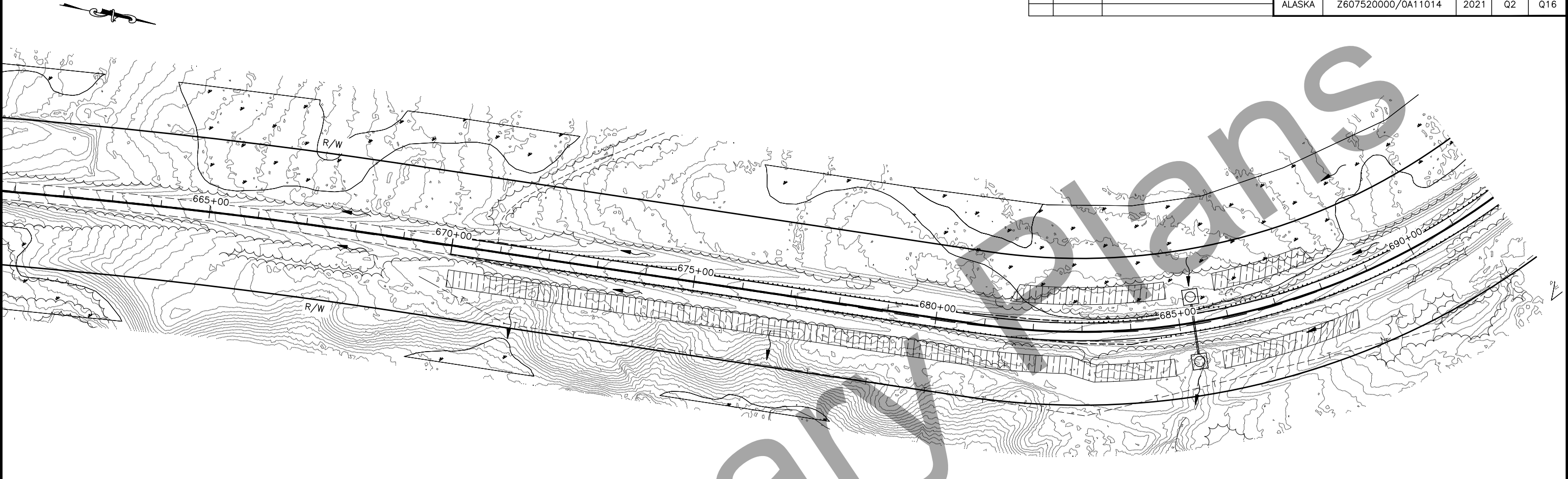
TIMING OF BMP INSTALLATION:

- 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.
- INSTALL TEMPORARY PERIMETER CONTROL BMP'S BEFORE ANY UP-GRADIENT SOIL DISTURBANCE OCCURS.
- START PLACEMENT OF DITCH LINING OR OTHER DISSIPATION MEASURES WITHIN 24 HOURS OF PLACEMENT OF THE CULVERT AND COMPLETED IN ONE CONTINUOUS OPERATION.

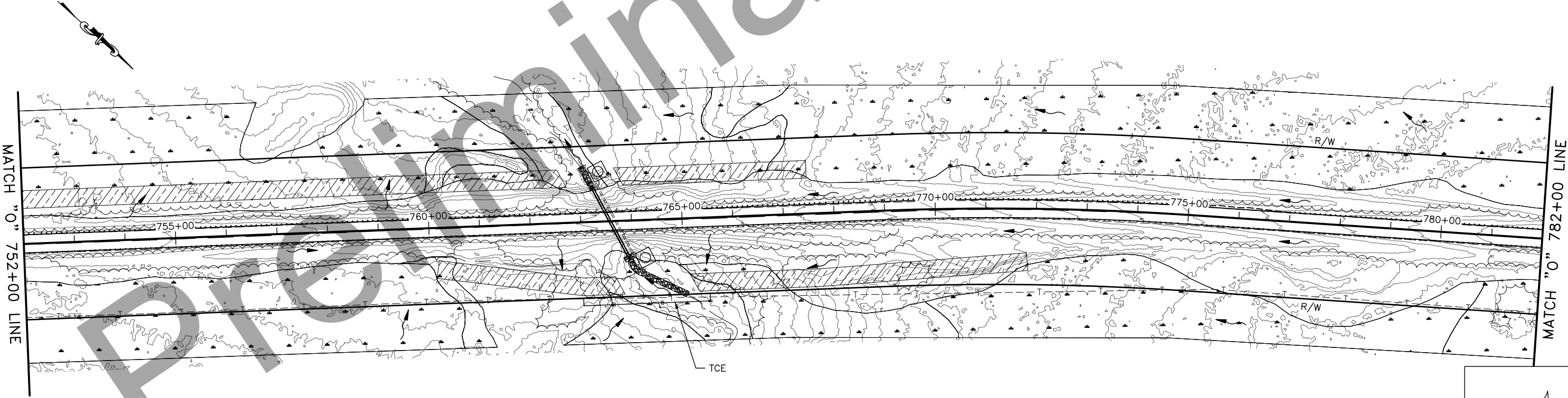
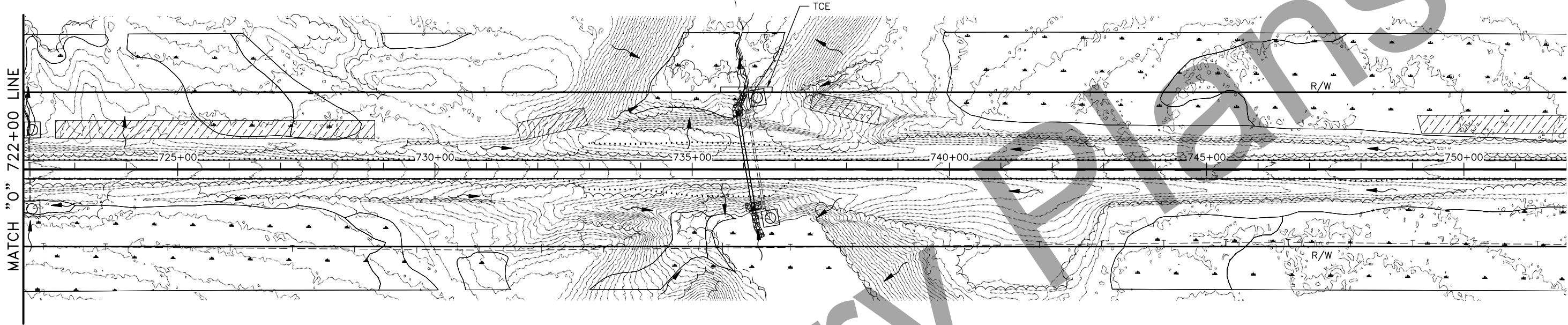
LEGEND

PERIMETER PROTECTION		10' CONTOURS	
CULVERT INLET/OUTLET PROTECTION		2' CONTOURS	
DRAINAGE DIRECTION		WETLANDS	
VEGETATION BUFFER		TEMPORARY CONSTRUCTION EASEMENT (TCE)	
TEMPORARY IMPACTS			

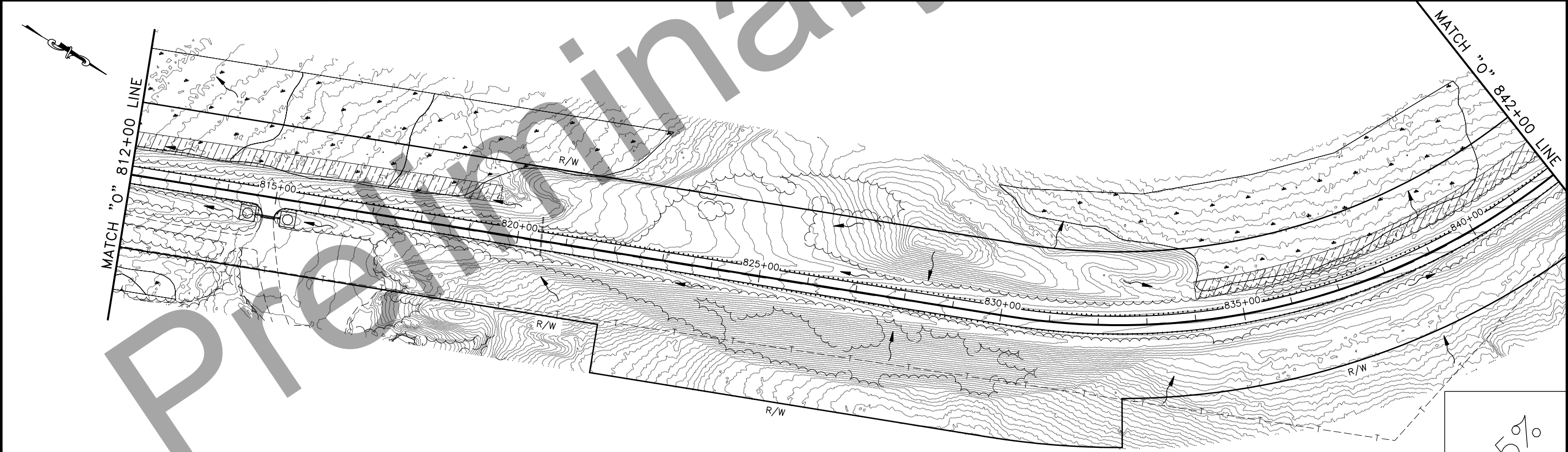
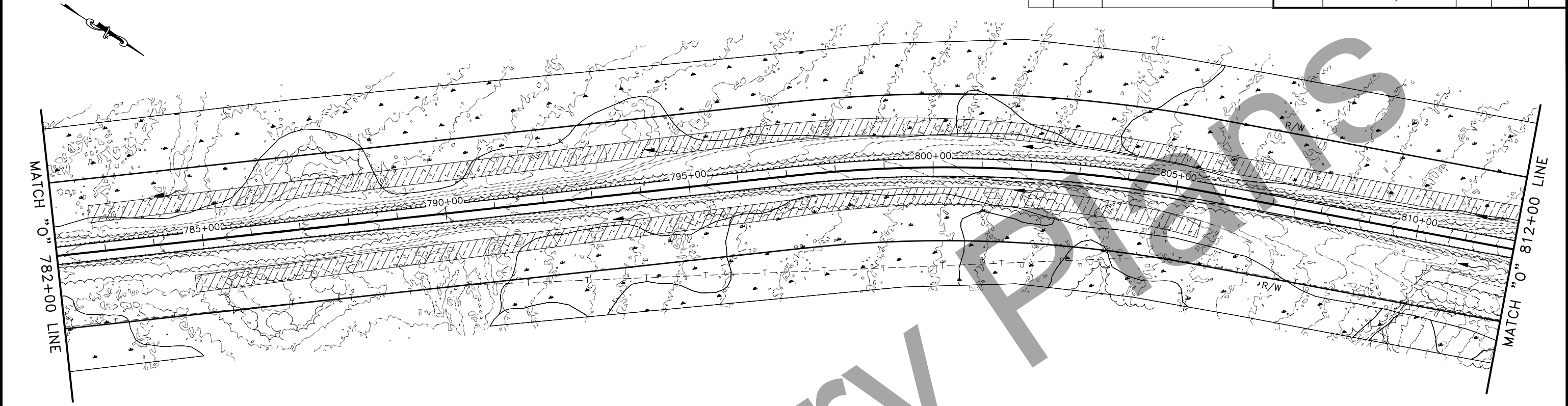
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q2	Q16



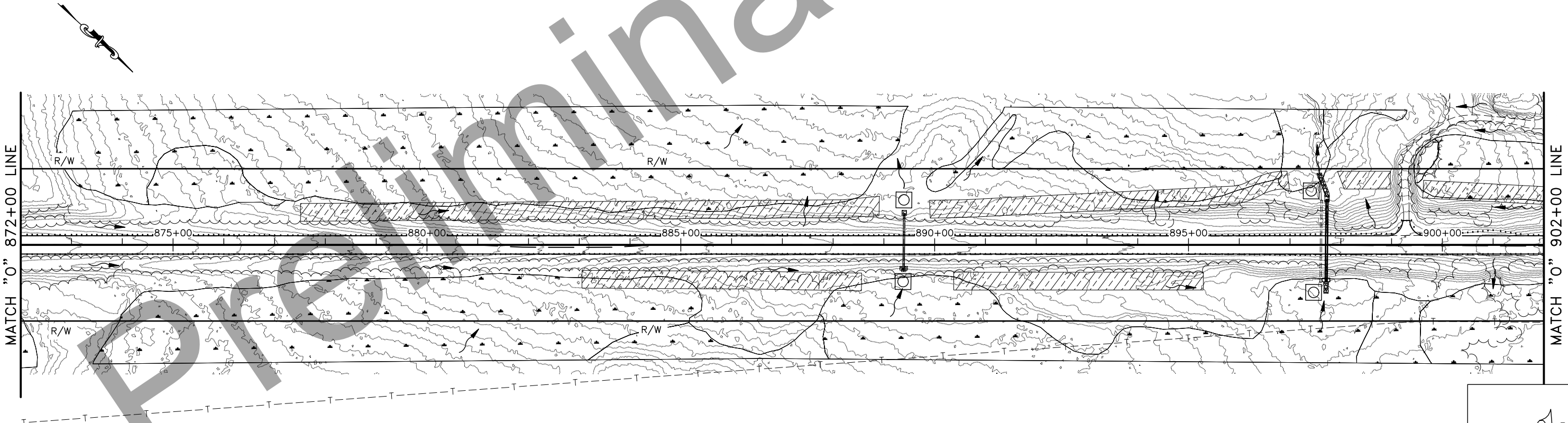
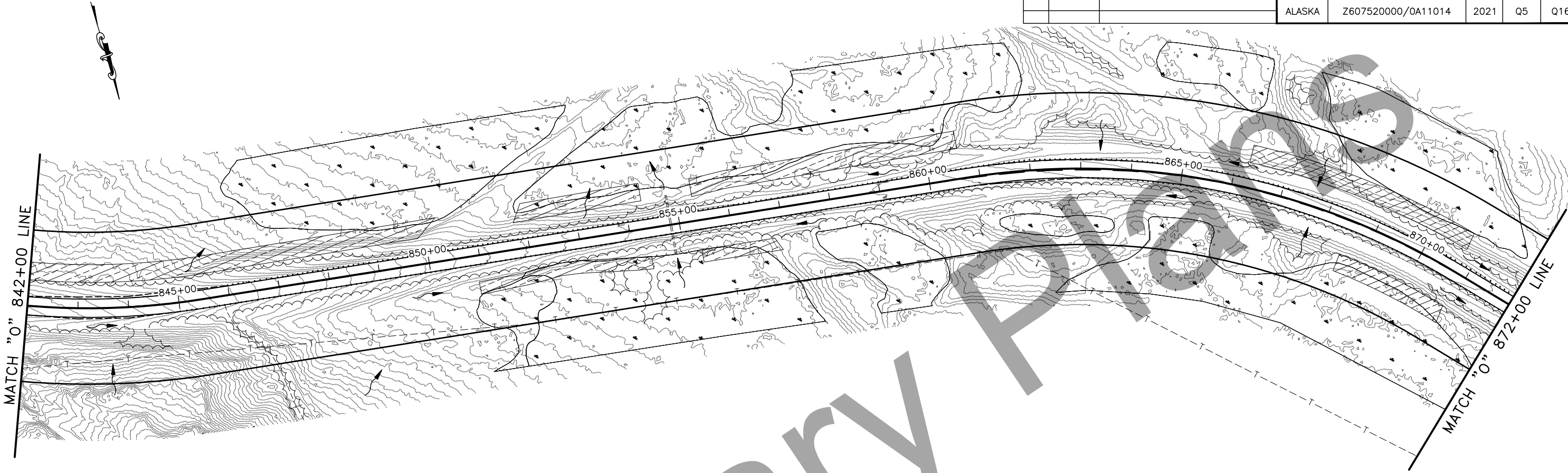
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q3	Q16



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q4	Q16

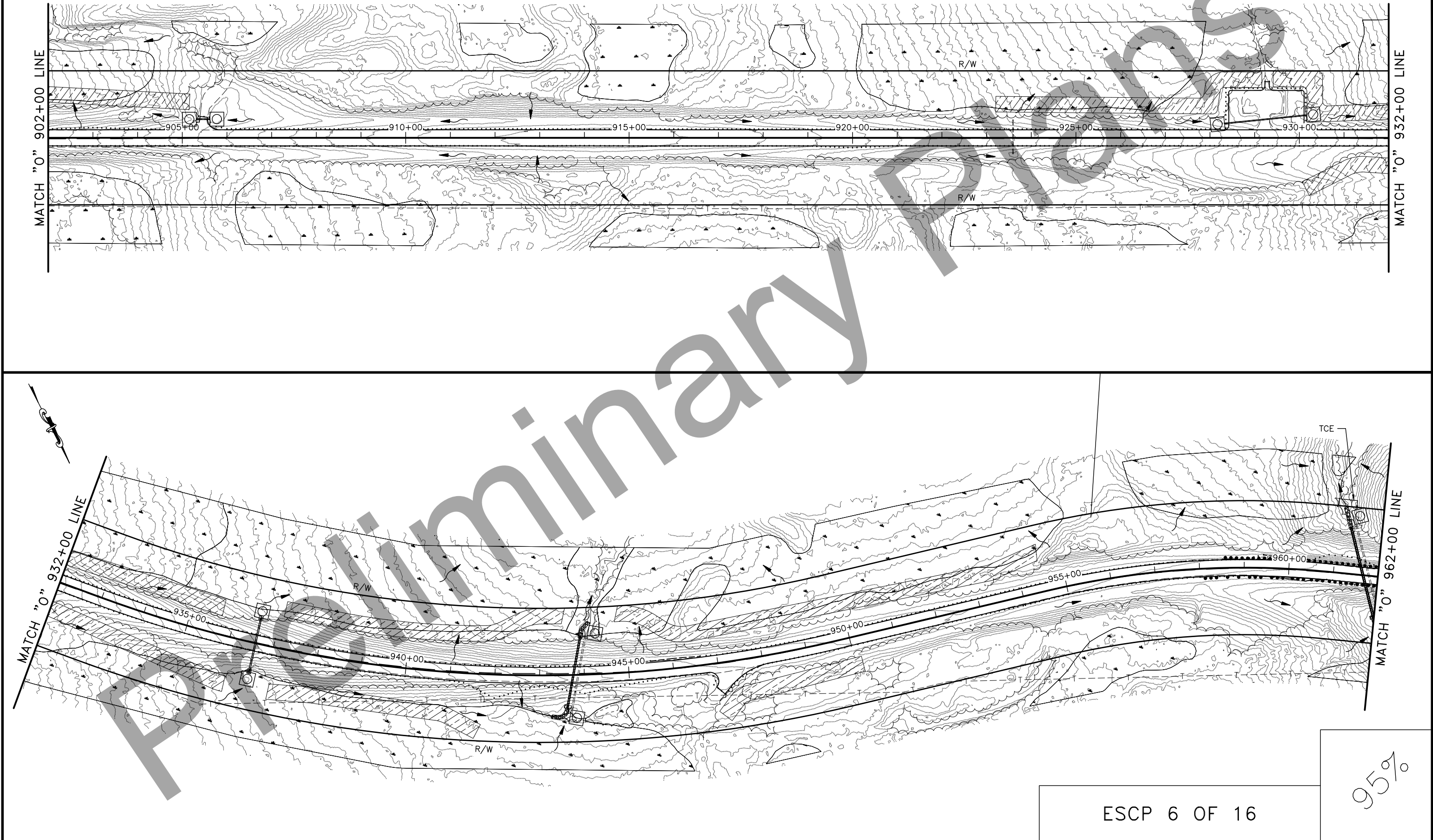


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q5	Q16



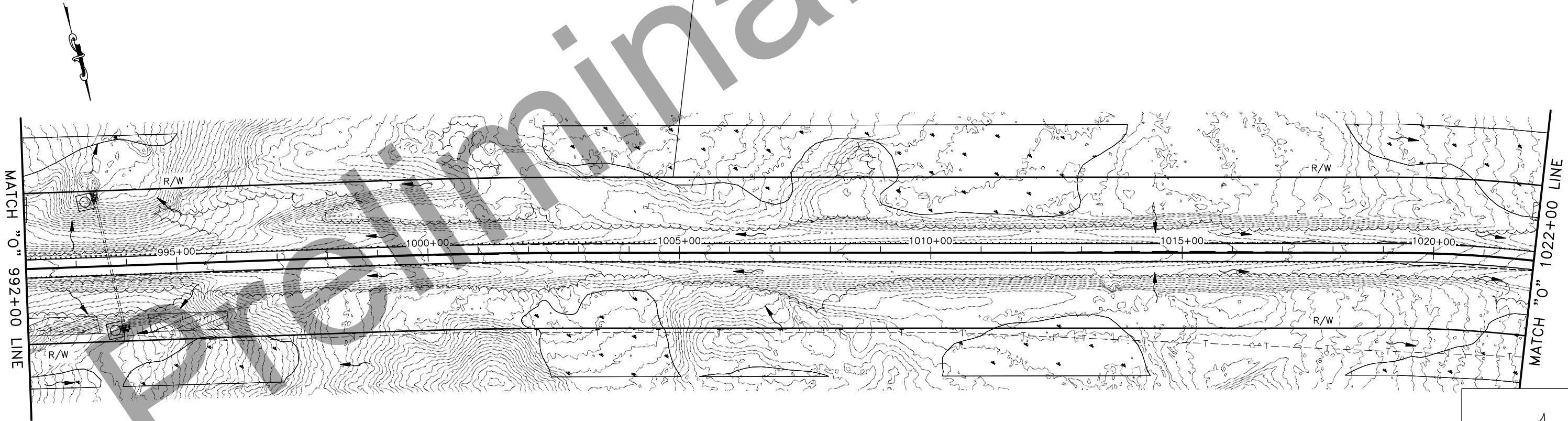
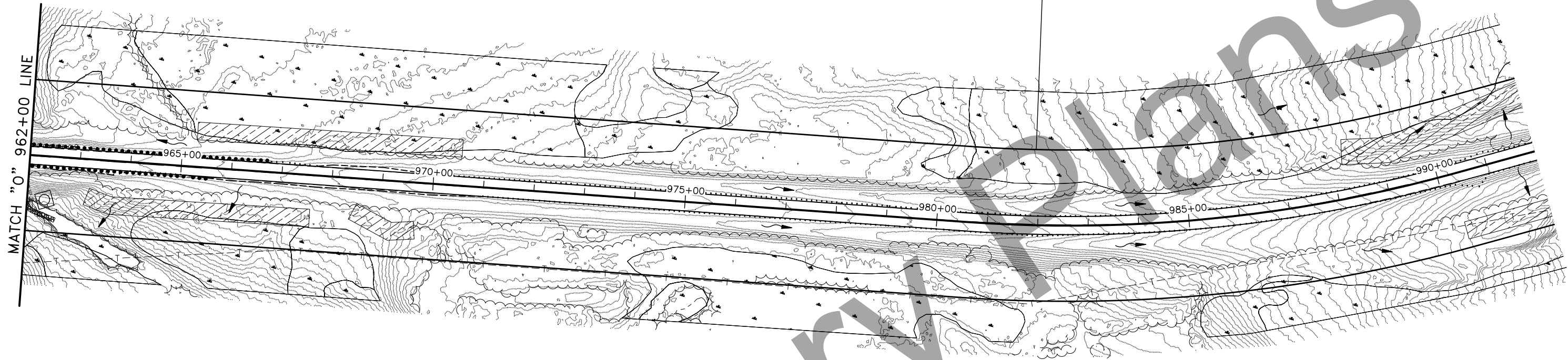
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q6	Q16

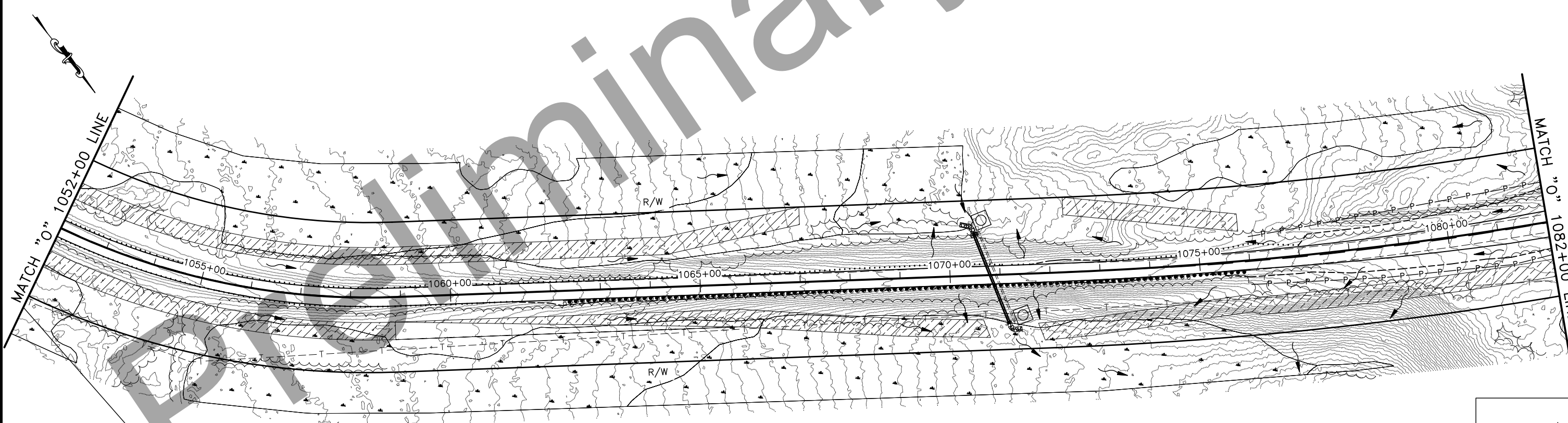
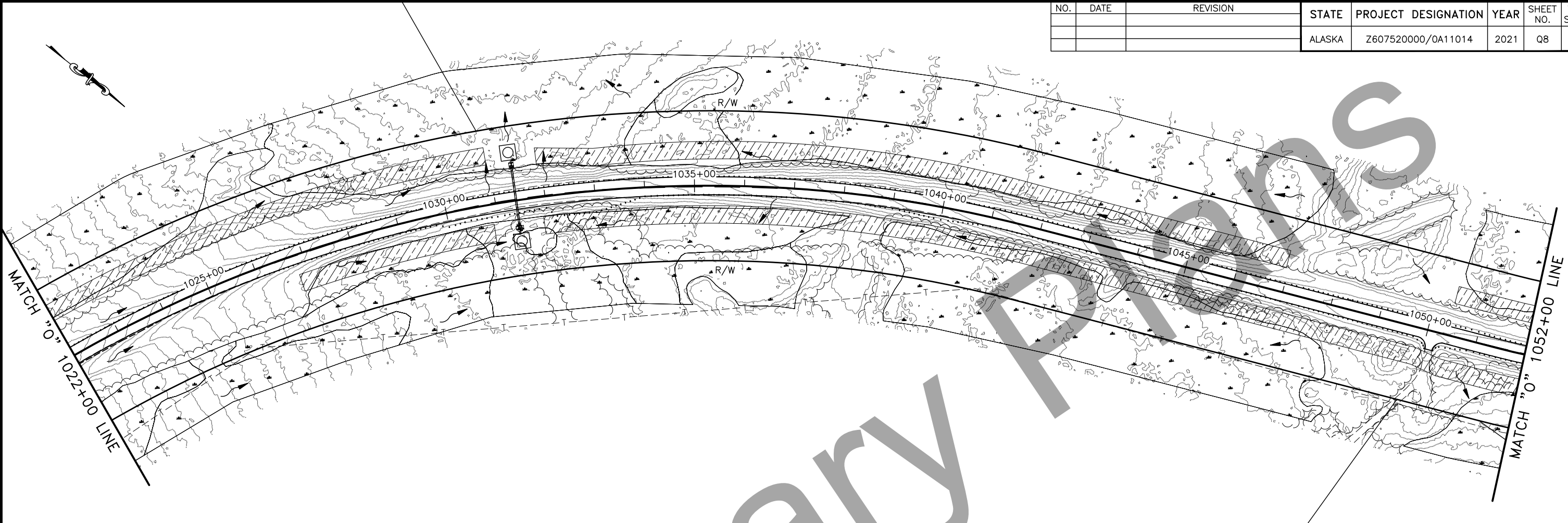


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q7	Q16

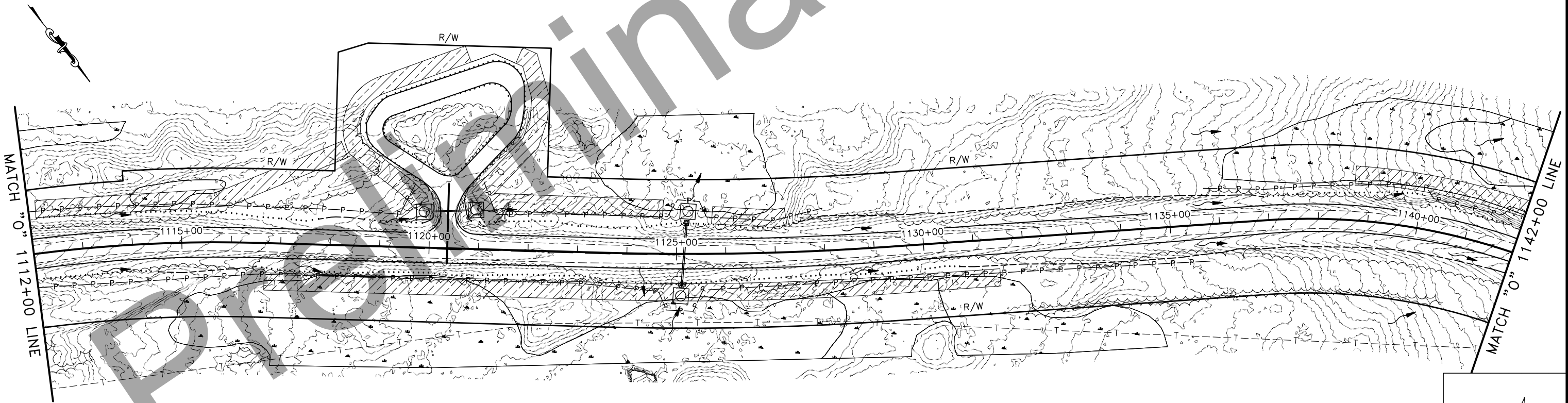
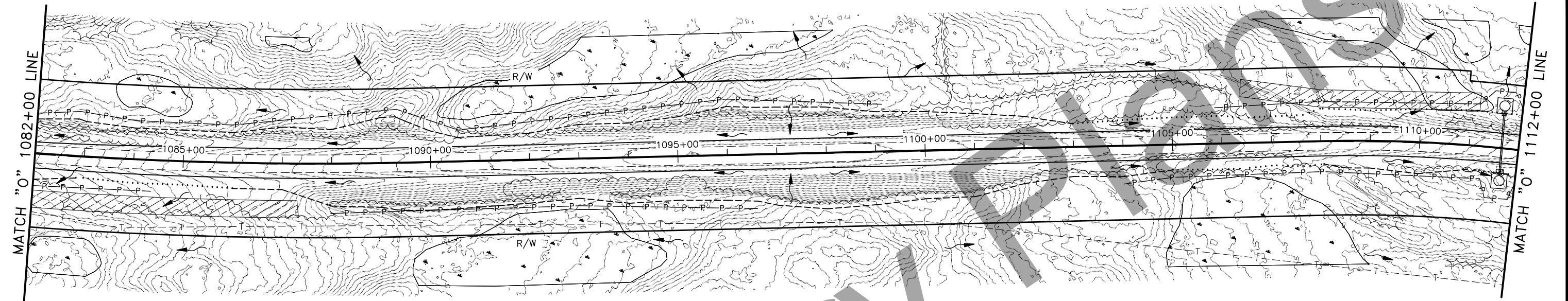


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q8	Q16



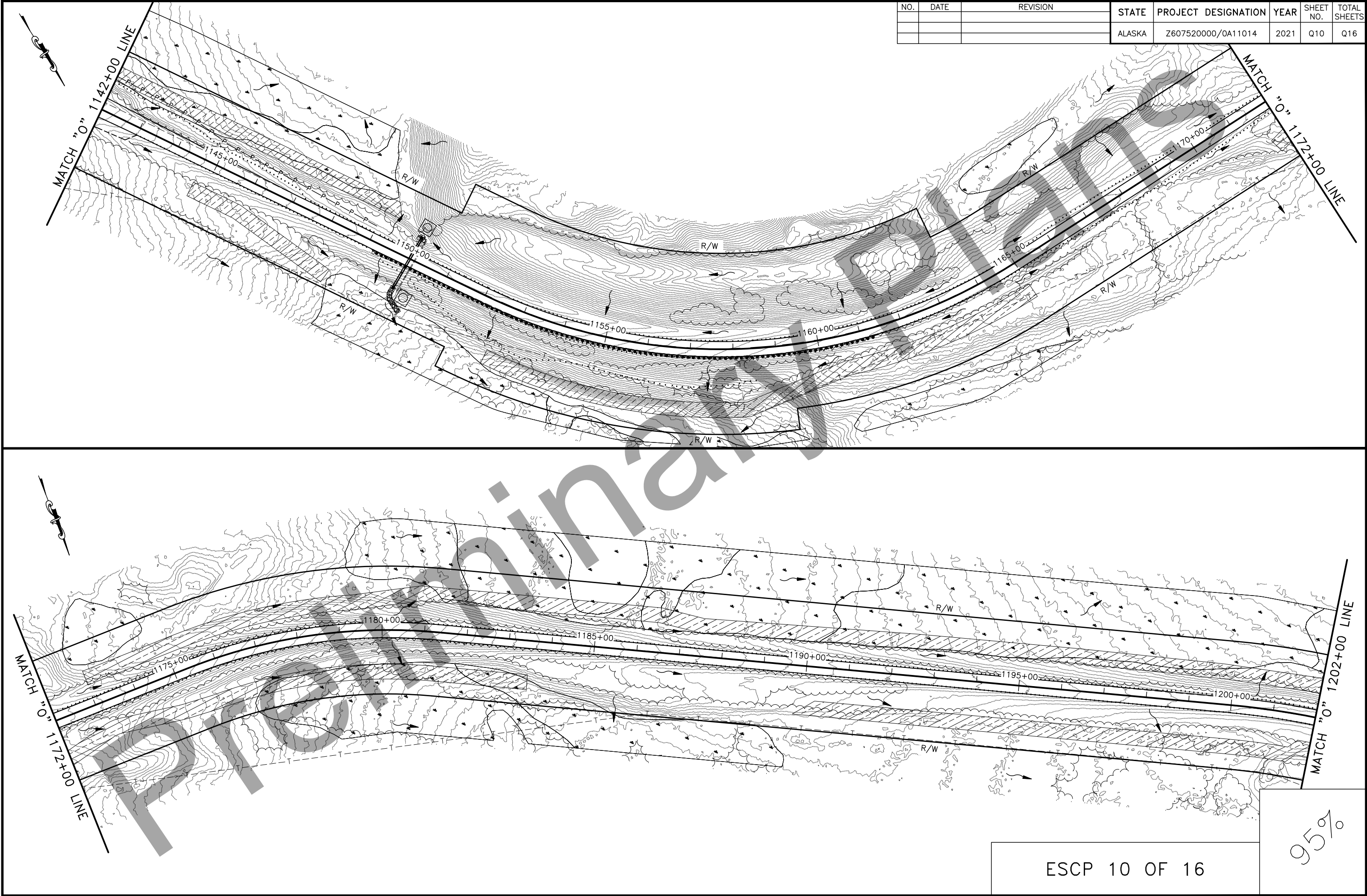
PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q9	Q16

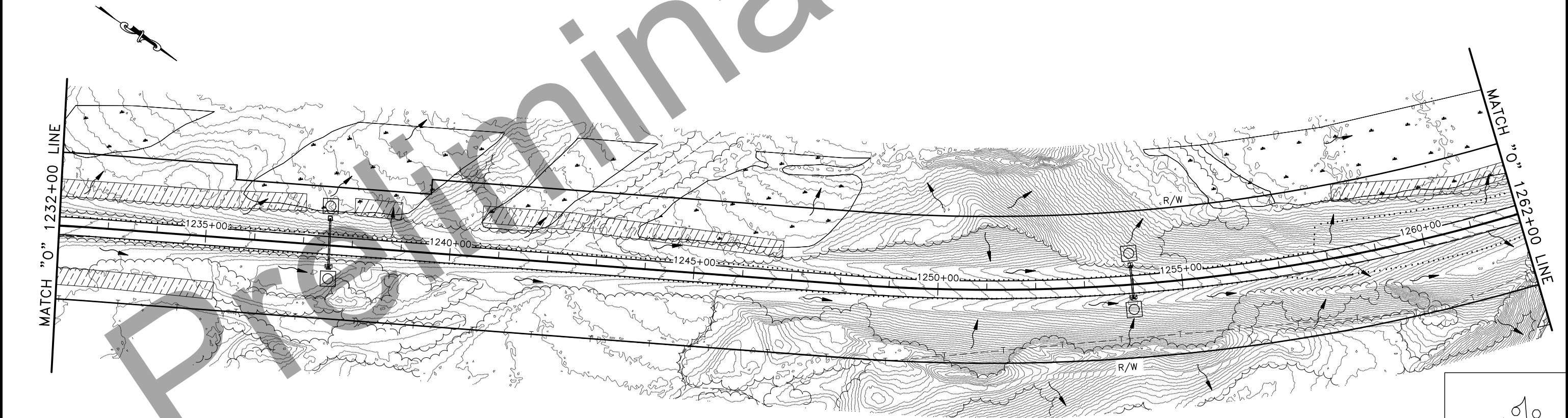
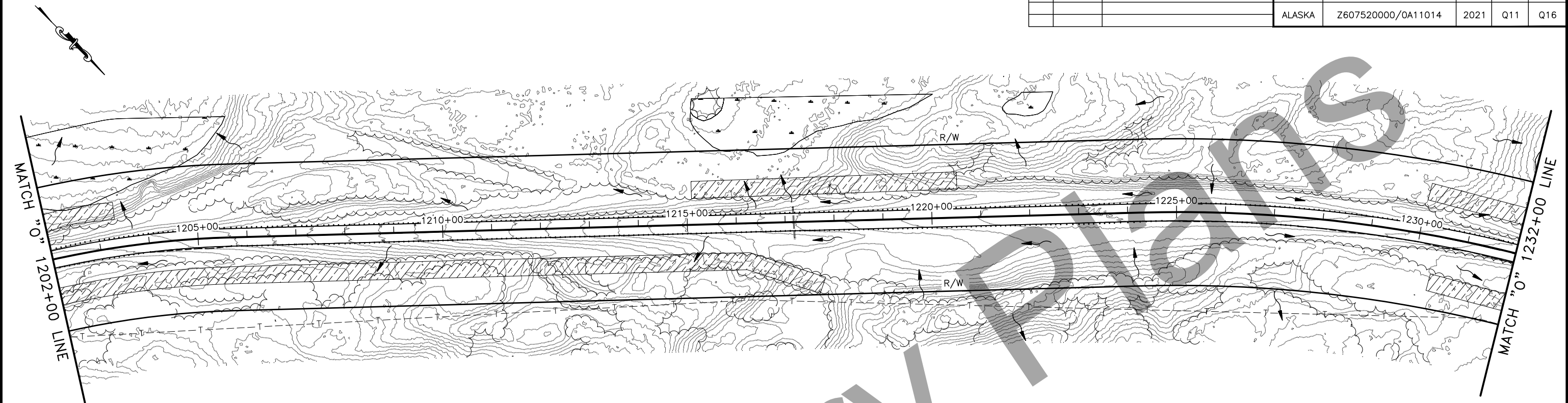


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q10	Q16

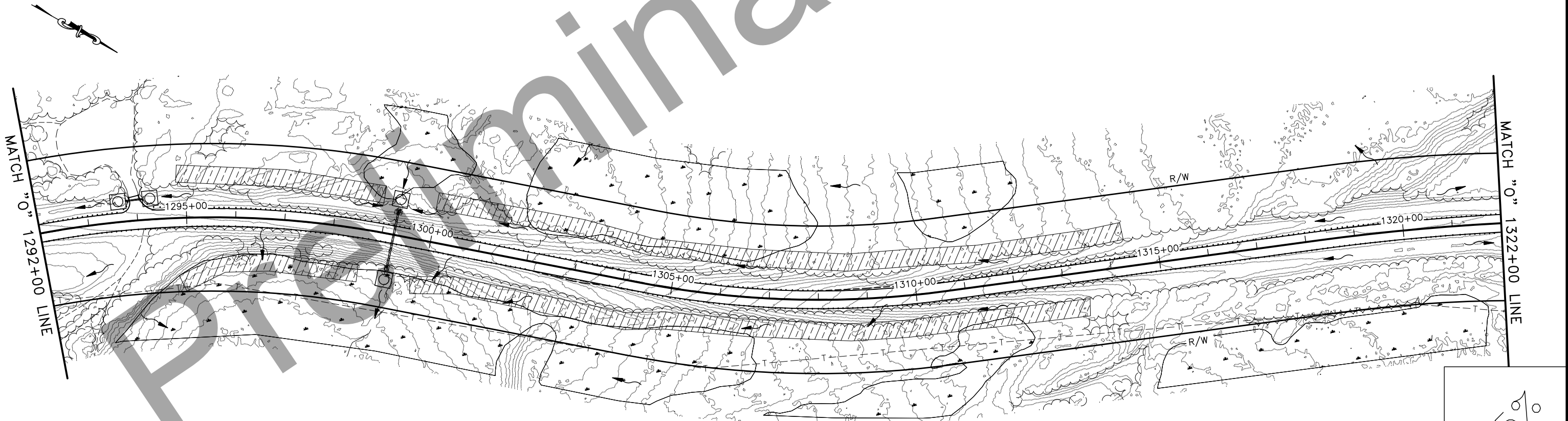
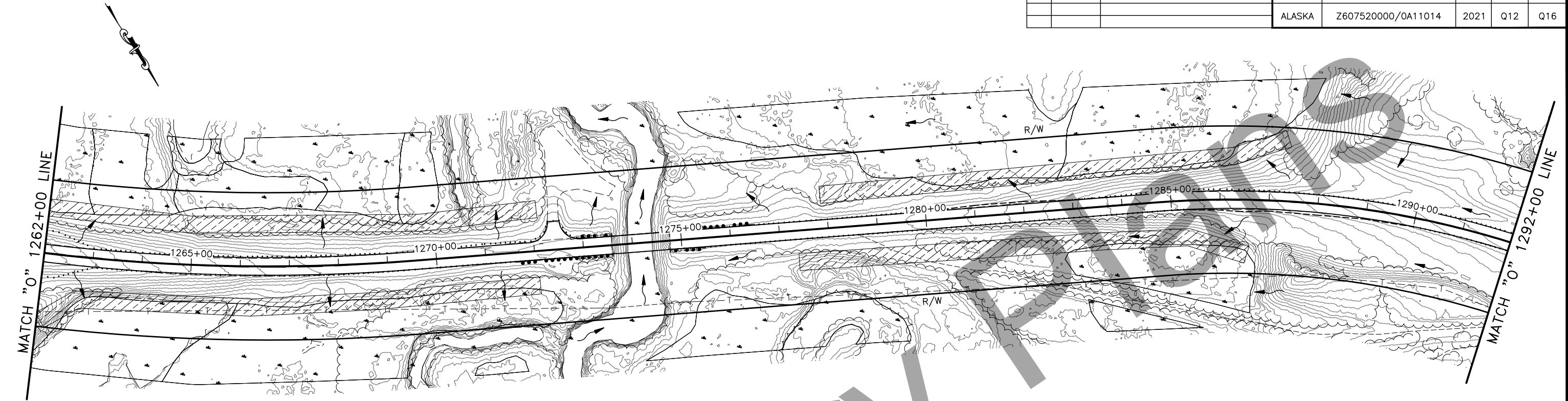


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q11	Q16

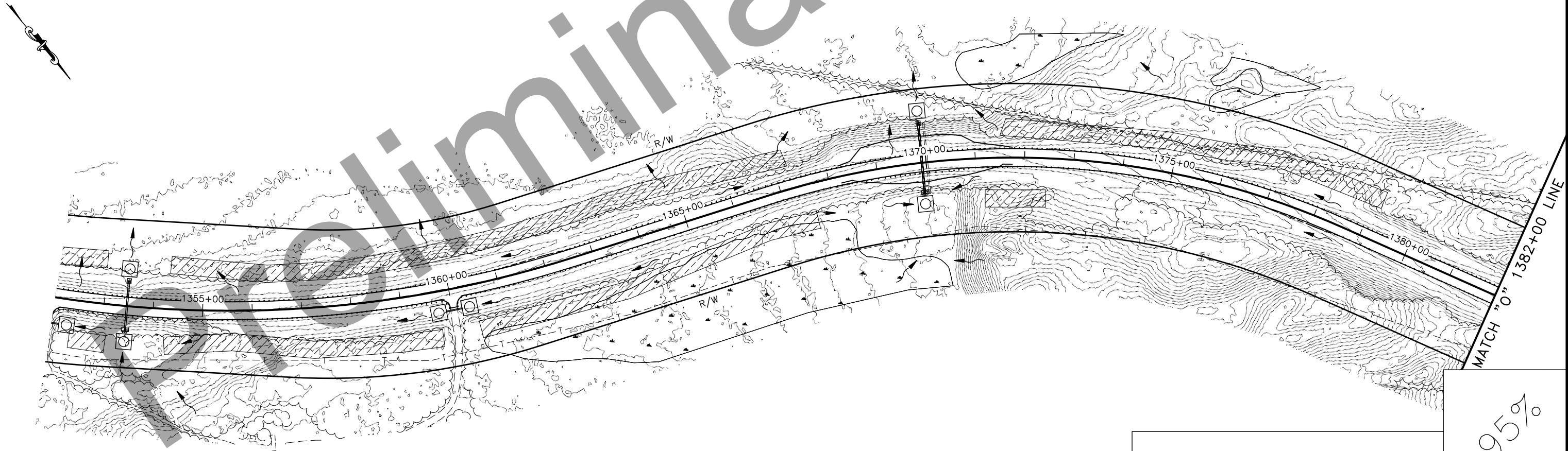
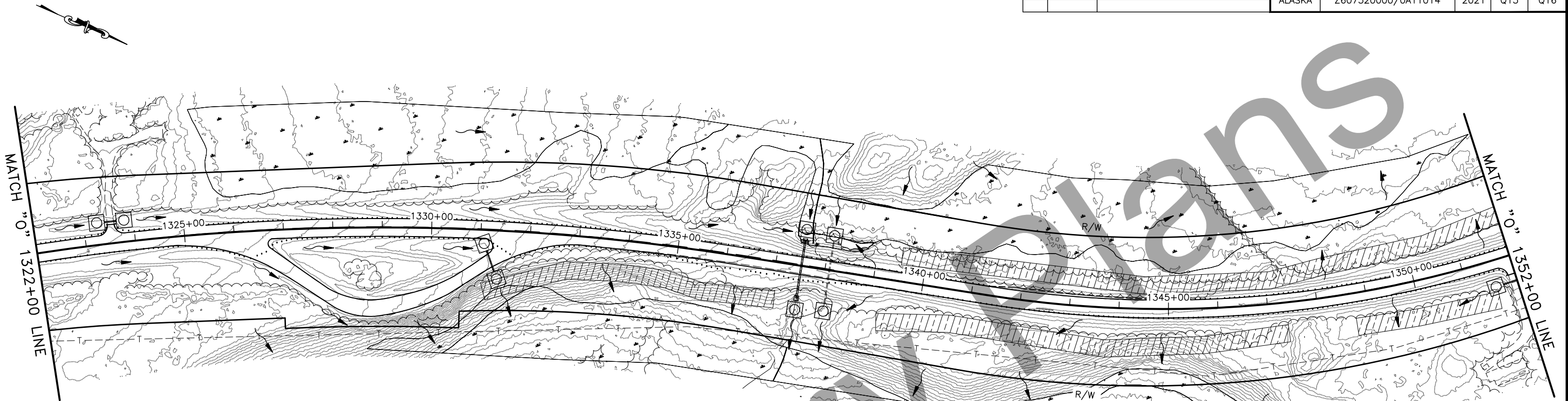


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q12	Q16

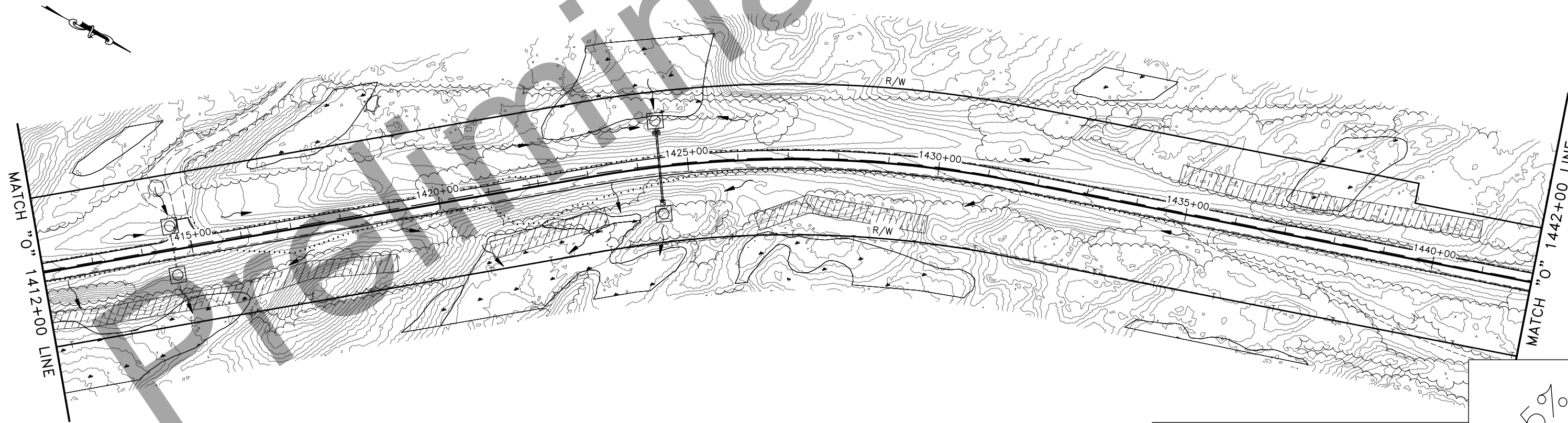
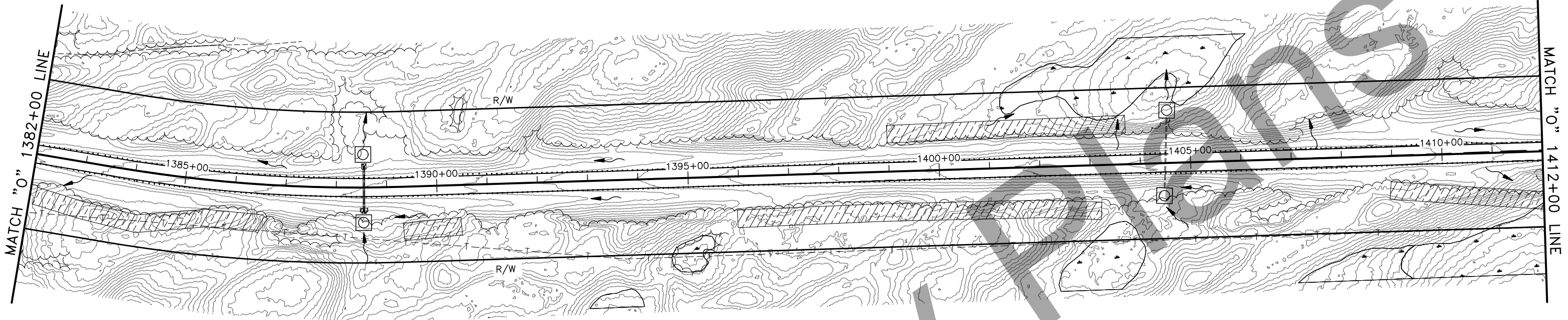


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q13	Q16

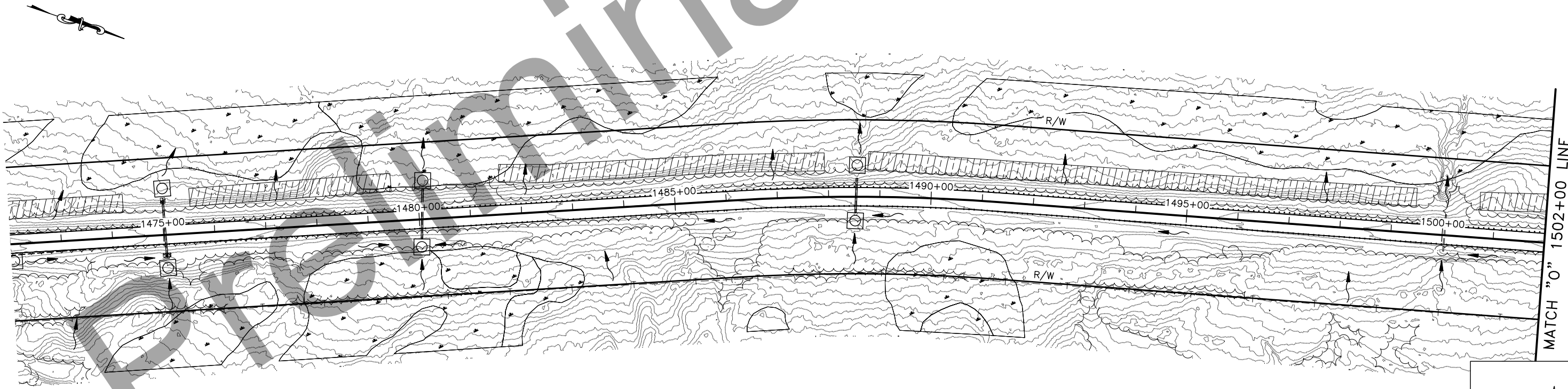
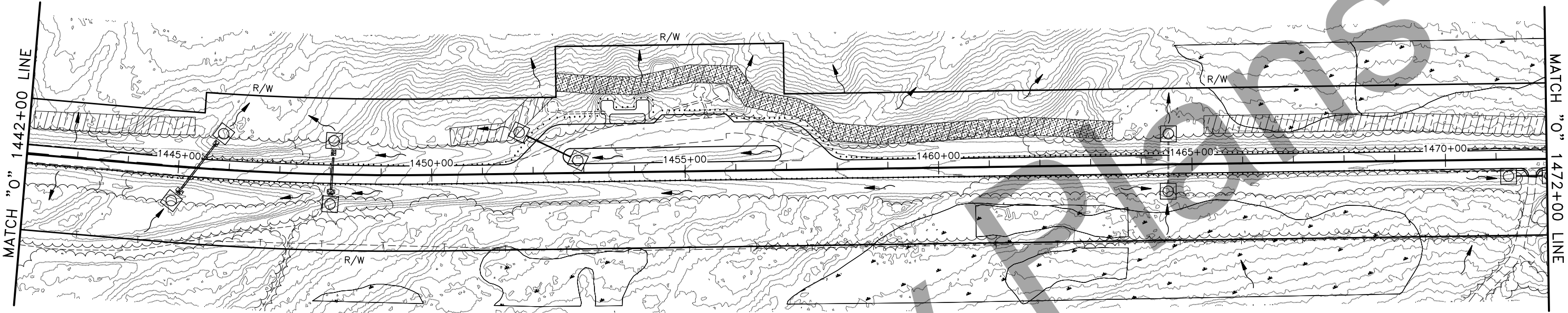


PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q14	Q16

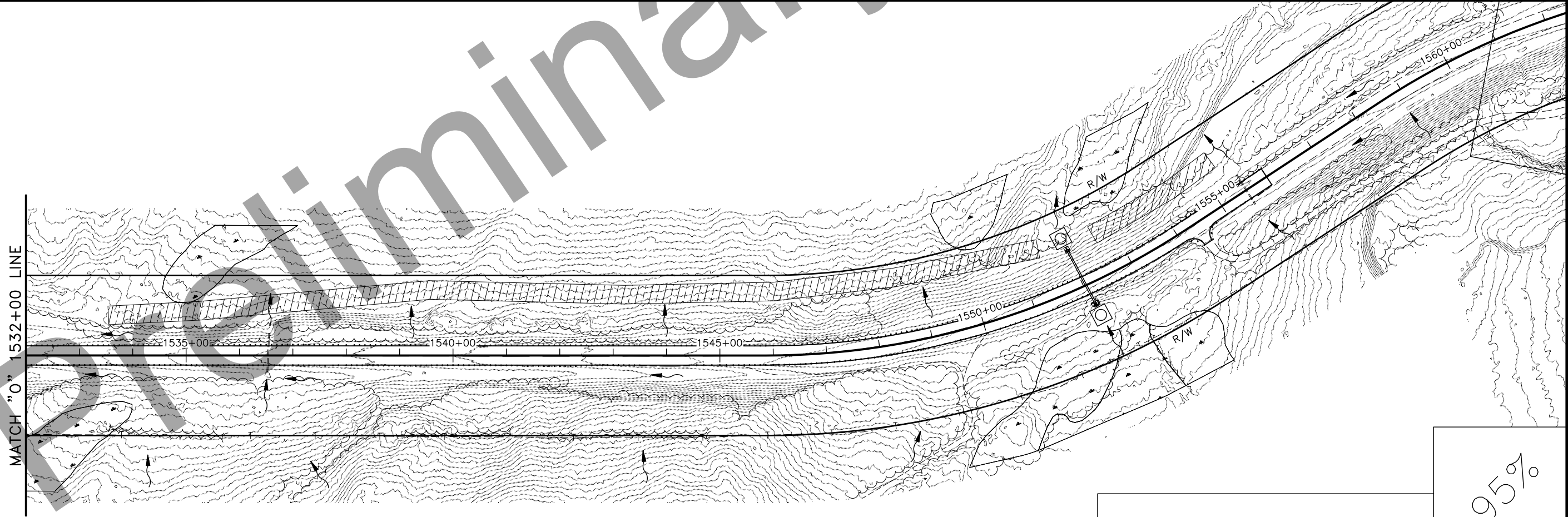
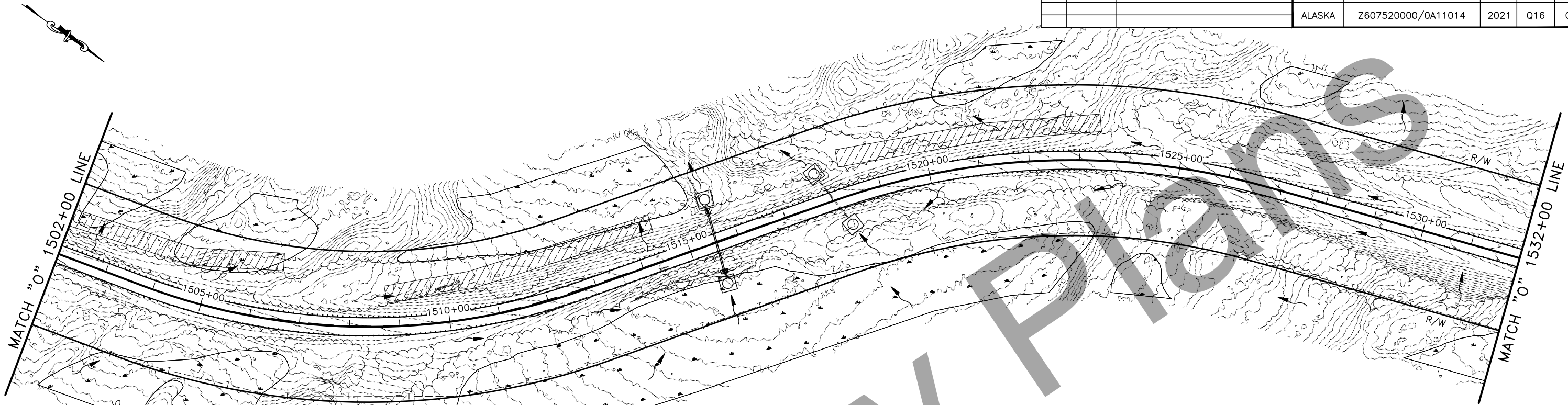


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/0A11014	2021	Q15	Q16



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	Z607520000/0A11014	2021	Q16	Q16



ESCP 16 OF 16

95%

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	Z607520000/OA11014	2021	T1	T11

643.2001.0000 – TEMPORARY DIVERSIONS				
CULVERT LOC. NO.	"O" STATION	TYPICAL	ENGINEERED DIVERSION	PLAN SHEET
CU01	685+30.0	X		T2 – TYPICALS
CUD02	712+88.0		X	T3 – D1 PLAN
CU03	722+12.0	X		T2 – TYPICALS
CUD04	736+27.0		X	T4 – D2 PLAN
CUD05	763+69.0		X	T5 – D3 PLAN
CU08	854+83.0	X		T2 – TYPICALS
CU09	889+39.0	X		T2 – TYPICALS
CUD10	897+61.0		X	T6 – D4 PLAN
CU14	936+58.0	X		T2 – TYPICALS
CUD15	943+87.0		X	T7 – D5 PLAN
CUD16	961+80.0		X	T8 – D6 PLAN
CU18	1031+42.0	X		T2 – TYPICALS
CUD19	1070+91.0		X	T9 – D7 PLAN
CU20	1111+66.0	X		T2 – TYPICALS
CU22	1125+15.0	X		T2 – TYPICALS
CUD23	1150+15.0		X	T10 – D8 PLAN
CU25	1237+53.0	X		T2 – TYPICALS
CU28	1299+23.0	X		T2 – TYPICALS
CU31	1337+52.0	X		T2 – TYPICALS
CU32	1338+09.0	X		T2 – TYPICALS
CU34	1353+47.0	X		T2 – TYPICALS
CUD36	1370+02.0		X	T11 – D9 PLAN
CU40	1424+43.0	X		T2 – TYPICALS
CU41	1445+38.0	X		T2 – TYPICALS
CU46	1475+04.0	X		T2 – TYPICALS
CU47	1480+06.0	X		T2 – TYPICALS
CU50	1515+54.0	X		T2 – TYPICALS
	TOTAL	18	9	

643.2001.000 – TEMPORARY DIVERSIONS TABLE OF LUMP SUM QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	REMARKS
TOTAL VOLUME OF CUT FOR DIVERSION CONSTRUCTION	CUBIC YARDS	20,000	
TOTAL VOLUME OF FILL FOR DIVERSION CONSTRUCTION	CUBIC YARDS	27,500	
TOTAL VOLUME OF E-1 FOR DIVERSION SURFACING	CUBIC YARDS	2,500	SUBSIDIARY TO 643.2001.0000

NOTES:

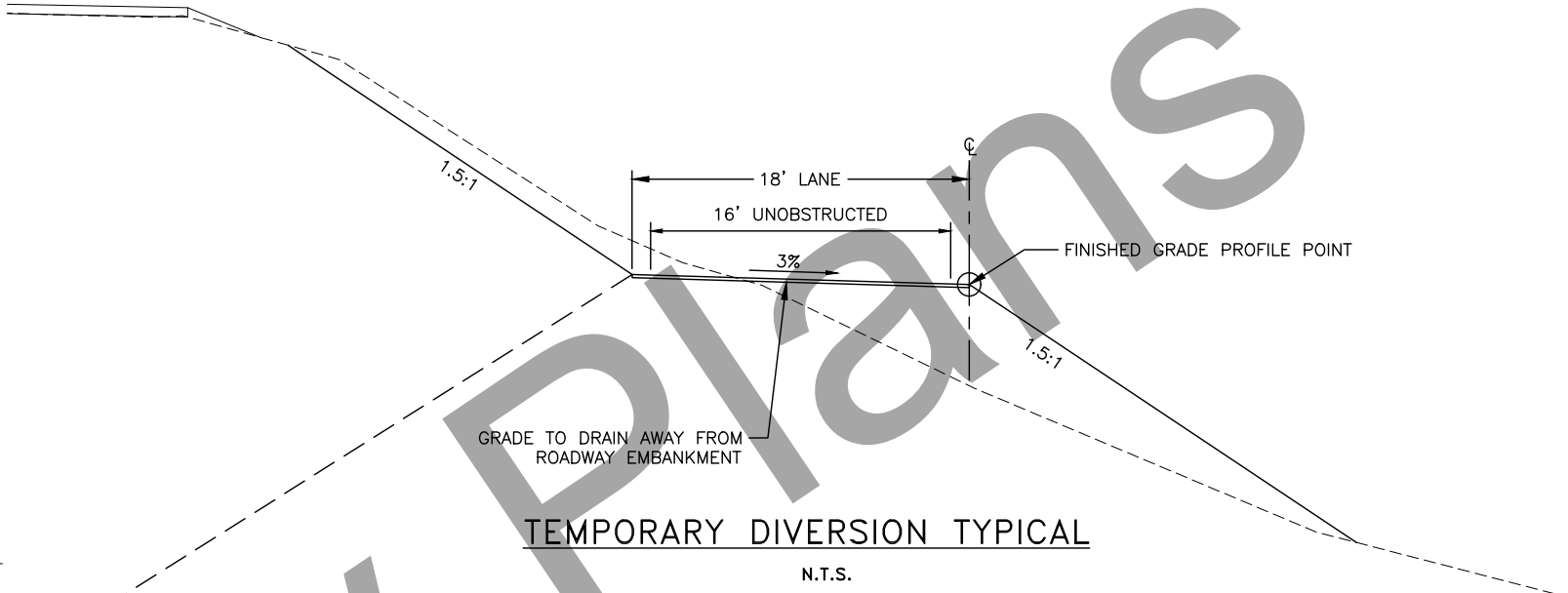
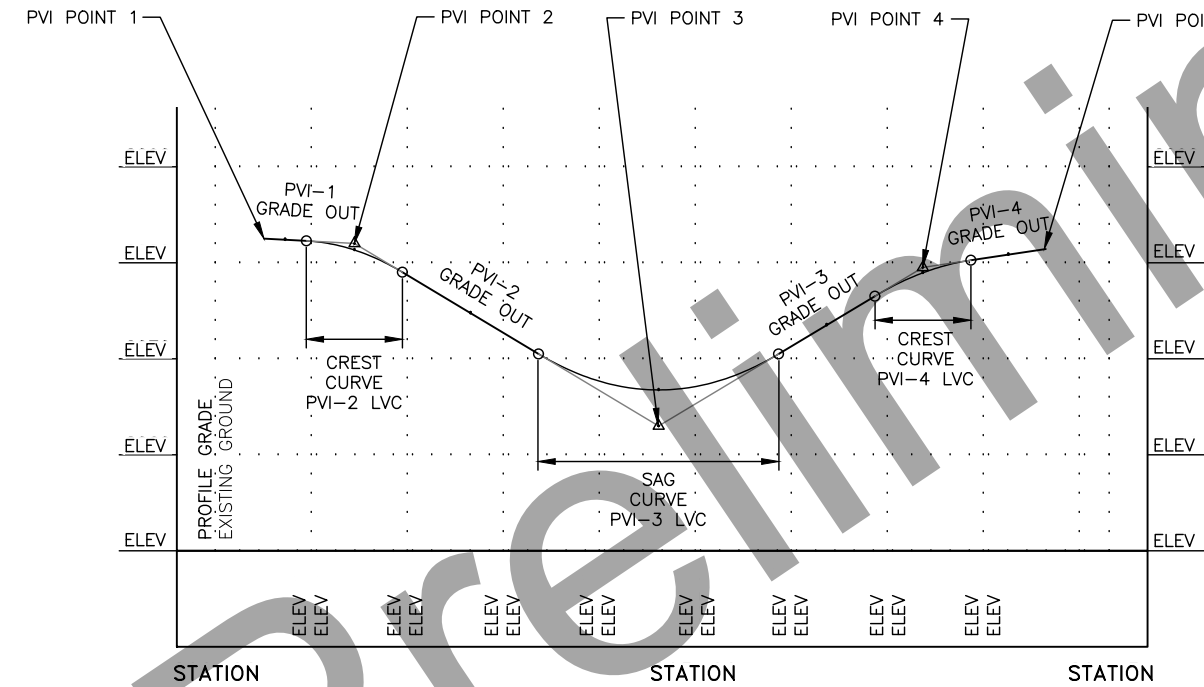
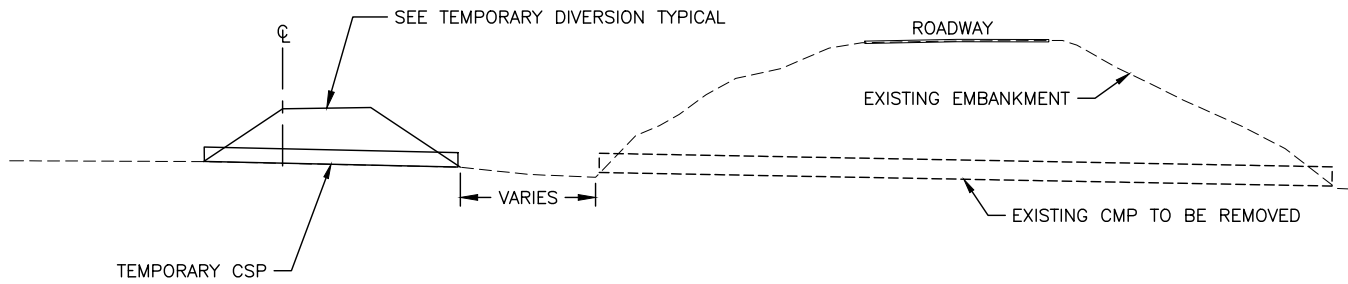
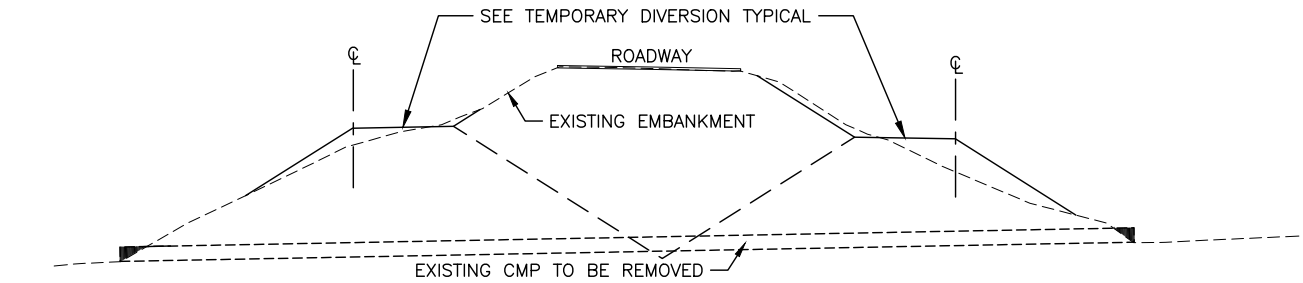
1. TEMPORARY DIVERSION QUANTITIES LISTED WILL NOT BE MEASURED FOR PAYMENT AND ARE SUBSIDIARY TO ITEM 643.2001.0000 TEMPORARY DIVERSIONS.
2. ESTIMATED QUANTITIES DO NOT ACCOUNT FOR DOUBLE HANDLING.
3. QUANTITIES LISTED IN THE TEMPORARY DIVERSIONS LUMP SUM QUANTITIES TABLE ACCOUNT FOR ALL THE TEMPORARY DIVERSIONS THAT ARE SUBSIDIARY TO ITEM 643.2001.0000. INDIVIDUAL SUBTOTALS FOR THE ENGINEERED DIVERSIONS QUANTITIES ARE INCLUDED WITH CORRESPONDING SHEETS T3 THROUGH T11.

DIVERSION SUMMARY

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 98503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	T2	T11



643.2001.000 – TYPICAL DIVERSIONS MINIMUM REQUIREMENTS		
DESCRIPTION	UNIT	QUANTITY
DESIGN SPEED	MPH	15
WIDTH	FEET	18'
THICKNESS OF SURFACING	INCHES	2"
PROFILE GRADE	%	8%
LENGTH OF VERTICAL CURVES	FEET	50'/400'
HORIZONTAL CURVATURE RADIUS	FEET	115'

TYPICAL DIVERSION NOTES:

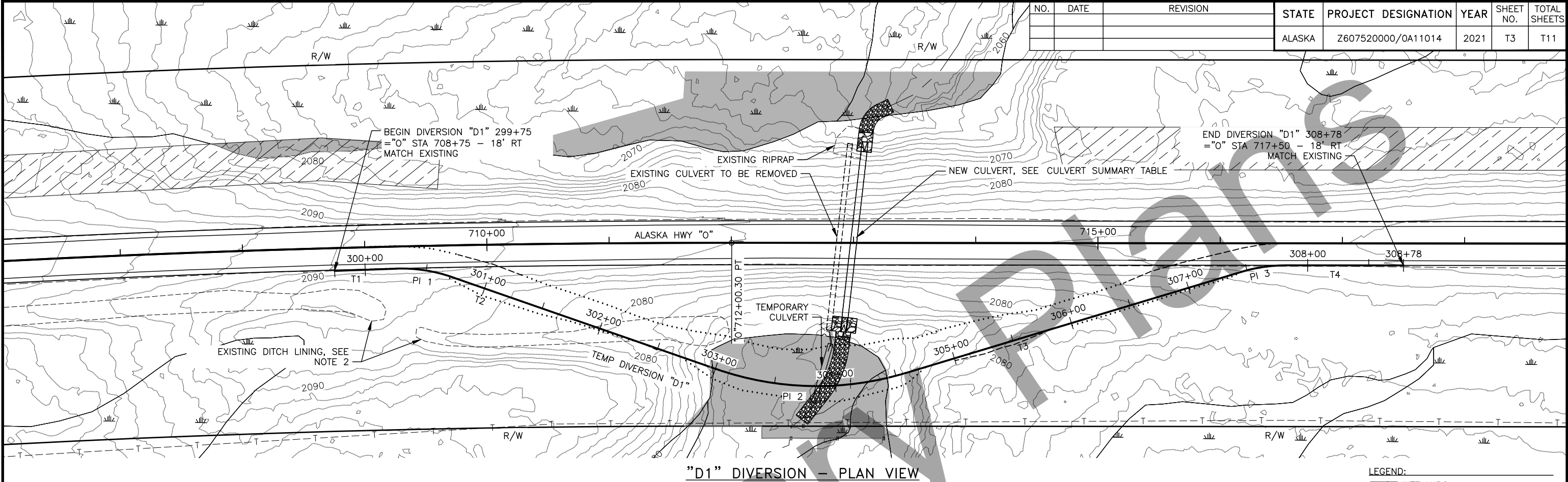
1. THE CENTERLINE AND PROFILE POINT FOR TEMPORARY DIVERSIONS ARE ABOUT THE OUTSIDE EDGE WITH RESPECT TO THE MAINLINE.
2. WORK WITHIN THE WORK ZONE INCLUDES VEGETATIVE CLEARING (NO GRUBBING), AND EQUIPMENT ACCESS TO ALLOW THE CONTRACTOR ADEQUATE ROOM TO CONSTRUCT THE EMBANKMENT SLOPES.
3. TEMPORARY DIVERSIONS SHALL NOT BE STEEPER THAN AN 8% GRADE.
4. TEMPORARY DIVERSIONS MINIMUM LANE WIDTH IS 18', MINIMUM UNOBSTRUCTED WIDTH OF 16'.
5. ONE LANE DIVERSIONS WILL REQUIRE 24 HOUR TRAFFIC CONTROL UNTIL THE ROAD EMBANKMENT IS REPLACED BACK TO EXISTING CONDITIONS WITH AN APPROVED DRIVING SURFACE. SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING THIS WORK FOR EACH DIVERSION LOCATION.

TEMPORARY DIVERSION
TYPICALS AND DETAILS

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 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	Z607520000/OA11014	2021	T3	T11



"D1" DIVERSION - PLAN VIEW

LEGEND:	
	WETLANDS
	PERMITTED TEMPORARY IMPACTS
	RIP RAP
	DITCH LINING
	VEGETATION BUFFER

NOTES

- SEE TEMPORARY DIVERSION PROFILE AND TEMPORARY DIVERSION TYPICAL ON SHEET T2
- PROTECT OR REPAIR EXISTING DITCH LINING. THIS WORK IS SUBSIDIARY TO 643.2001.0000 TEMPORARY DIVERSIONS.

"D1" DIVERSION ALIGNMENT TABLE								
DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	299+75.0	-	-	-	-	-	64,041.1355'	1,509,128.5897'
T1	-	N 46° 19' 29.7959" W	50.5'	-	-	-	-	-
PI 1	299+75.0	-	46.3'	N 35° 43' 12.9887" W	23.4'	125.0'	64,092.1503'	1,509,075.1592'
T2	-	N 25° 06' 56.1816" W	229.3'	-	-	-	-	-
PI 2	300+48.9	-	157.0'	N 43° 06' 10.1931" W	81.2'	250.0'	64,394.4431'	1,508,933.4545'
T3	-	N 61° 05' 24.2046" W	287.3'	-	-	-	-	-
PI 3	307+63.8	-	36.7'	N 52° 40' 26.9211" W	18.5'	125.0'	64,581.5250'	1,508,594.6950'
T4	-	N 44° 15' 29.6376" W	96.4'	-	-	-	-	-
END	308+78.5	-	-	-	-	-	64,663.8250'	1,508,514.4989'

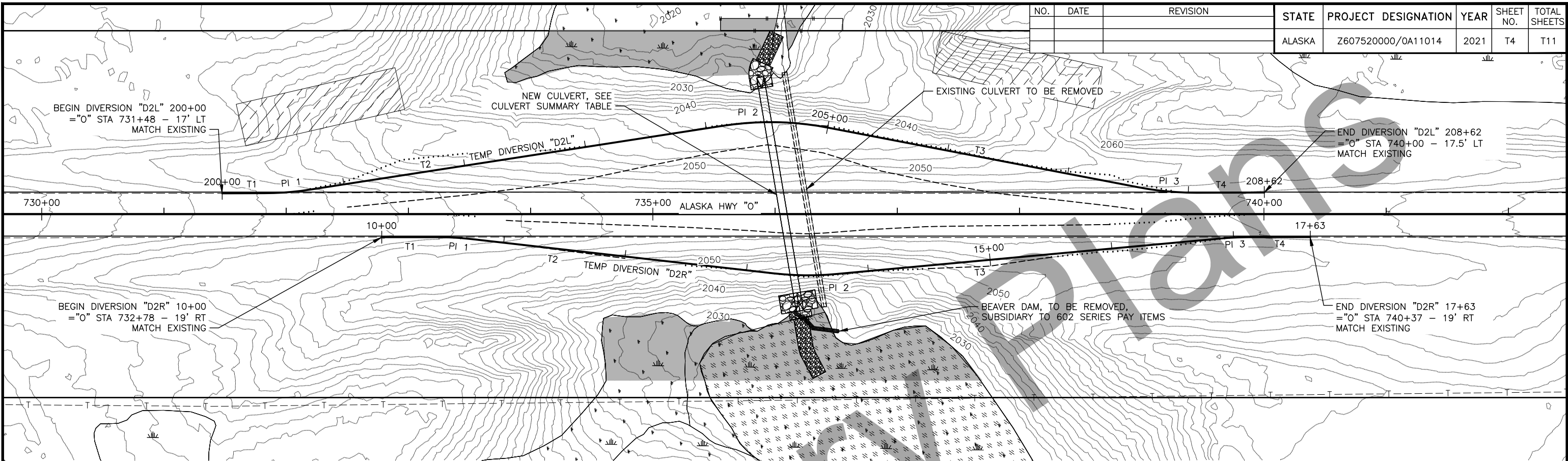
"D1" DIVERSION PROFILE TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	300+00.3	2092.0'	-1.66%	0.0'
2	300+45.4	2090.9'	-6.00%	50.0'
3	303+90.0	2070.2'	5.00%	300.0'
4	307+62.0	2088.8'	1.20%	50.0'
5	308+04.8	2090.1'	0.00%	0.0'

"D1" 643 ROADWAY DIVERSION TABLE OF QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	REMARKS
DIVERSION CUT	CUBIC YARD	850	
DIVERSION FILL	CUBIC YARD	1250	
DIVERSION SURFACING COURSE OF COMPACTED E-1	CUBIC YARD	115	
TEMPORARY CULVERT	EACH	1	48" X 50'

D1 PLAN

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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"D2L" & "D2R" DIVERSION – PLAN VIEW

- LEGEND:
- WETLANDS
 - PERMITTED TEMPORARY IMPACTS
 - RIP RAP
 - DITCH LINING
 - PONDED WATER
 - VEGETATION BUFFER

"D2L" DIVERSION ALIGNMENT LAYOUT TABLE – HORIZONTAL CONTROL								
REMARKS	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	200+00.0	–	–	–	–	–	65,640.4101'	1,507,514.0094'
T1	–	N 44° 29' 29.0825" W	34.8'	–	–	–	–	–
PI 1	200+53.5	–	37.3'	N 48° 46' 02.6300" W	18.7'	250.0'	65,678.5847'	1,507,476.5065'
T2	–	N 53° 02' 36.1774" W	342.2'	–	–	–	–	–
PI 2	204+57.7	–	85.8'	N 43° 12' 45.5888" W	43.3'	250.0'	65,921.6162'	1,507,153.4842'
T3	–	N 33° 22' 55.0003" W	258.5'	–	–	–	–	–
PI 3	207+82.8	–	48.1'	N 38° 53' 30.8624" W	24.1'	250.0'	66,193.7669'	1,506,974.1569'
T4	–	N 44° 24' 06.7244" W	55.4'	–	–	–	–	–
END	208+62.1	–	–	–	–	–	66,250.5950'	1,506,918.5031'

"D2R" DIVERSION ALIGNMENT LAYOUT TABLE – HORIZONTAL CONTROL								
REMARKS	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	10+00.0	–	–	–	–	–	65,758.9163'	1,507,448.5840'
T1	–	N 44° 18' 13.6017" W	45.6'	–	–	–	–	–
PI 1	10+59.8	–	28.5'	N 41° 02' 18.7813" W	14.3'	250.0'	65,801.7382'	1,507,406.7904'
T2	–	N 37° 46' 23.9608" W	248.3'	–	–	–	–	–
PI 2	13+48.1	–	51.4'	N 43° 39' 30.4038" W	25.8'	250.0'	66,029.6142'	1,507,230.2015'
T3	–	N 49° 32' 36.8468" W	315.8'	–	–	–	–	–
PI 3	17+00.5	–	22.7'	N 46° 56' 21.9691" W	11.4'	250.0'	66,258.6098'	1,506,961.6689'
T4	–	N 44° 20' 07.0913" W	50.7'	–	–	–	–	–
END	17+62.6	–	–	–	–	–	66,302.9986'	1,506,918.2983'

"D2L" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	200+34.8	2067.7'	–3.42	0.0'
2	200+80.5	2066.2'	–8.00	50.0'
3	204+36.3	2037.7'	6.00	350.0'
4	207+60.8	2057.2'	0.85	50.0'
5	208+31.2	2057.8'	0.00	0.0'

"D2R" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	10+43.6	2062.4'	–3.64	0.0'
2	10+89.5	2060.8'	–8.00	50.0'
3	13+45.7	2040.3'	6.00	300.0'
4	16+21.3	2056.8'	1.19	50.0'
5	17+15.6	2057.9'	0.00	0.0'

NOTES

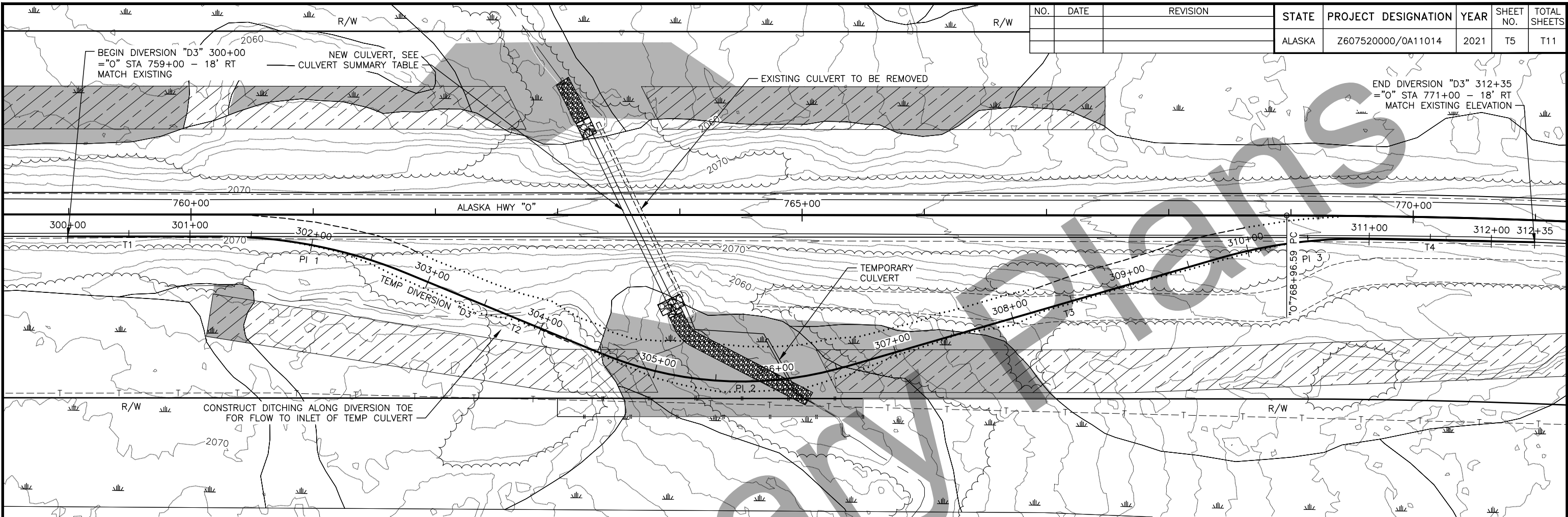
1. SEE VERTICAL PROFILE LAYOUT TYPICAL ON T2.

"D2L" & "D2R" 643 TEMPORARY DIVERSION TABLE OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
DIVERSION CUT	CUBIC YARD	2750
DIVERSION FILL	CUBIC YARD	300
DIVERSION SURFACING COURSE OF COMPACTED E-1	CUBIC YARD	185

D2 PLAN

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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"D3" DIVERSION — PLAN VIEW

"D3" DIVERSION ALIGNMENT TABLE

DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	300+00.0	—	—	—	—	—	67,635.4903'	1,505,618.7999'
T1	—	N 44° 15' 30.6454" W	125.7'	—	—	—	—	—
PI 1	302+04.7	—	155.9'	N 33° 05' 31.2549" W	79.0'	400.0'	67,782.0801'	1,505,475.9559'
T2	—	N 21° 55' 31.8645" W	173.0'	—	—	—	—	—
PI 2	305+59.6	—	201.9'	N 41° 12' 33.5668" W	105.0'	300.0'	68,113.1398'	1,505,342.6995'
T3	—	N 60° 29' 35.2690" W	319.3'	—	—	—	—	—
PI 3	310+36.6	—	120.6'	N 51° 51' 33.1732" W	60.7'	400.0'	68,352.0347'	1,504,920.5723'
T4	—	N 43° 13' 31.0774" W	139.0'	—	—	—	—	—
END	312+35.4	—	—	—	—	—	68,497.5887'	1,504,783.7670'

"D3" DIVERSION PROFILE LAYOUT TABLE

PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	301+34.0	2070.5'	-1.07	0.0'
2	301+98.5	2069.8'	-3.00	50.0'
3	305+92.7	2057.9'	5.00	300.0'
4	310+25.7	2079.6'	1.61	50.0'
5	311+05.7	2080.9'	0.00	0.0'

"D3" 643 TEMPORARY DIVERSION TABLE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY	REMARKS
DIVERSION CUT	CUBIC YARD	150	
DIVERSION FILL	CUBIC YARD	1700	
DIVERSION SURFACING COURSE OF COMPACTED E-1	CUBIC YARD	125	
TEMPORARY CULVERT	EACH	1	48" X 50'

LEGEND:

- WETLANDS
- PERMITTED TEMPORARY IMPACTS
- RIP RAP
- DITCH LINING
- VEGETATION BUFFER

NOTES

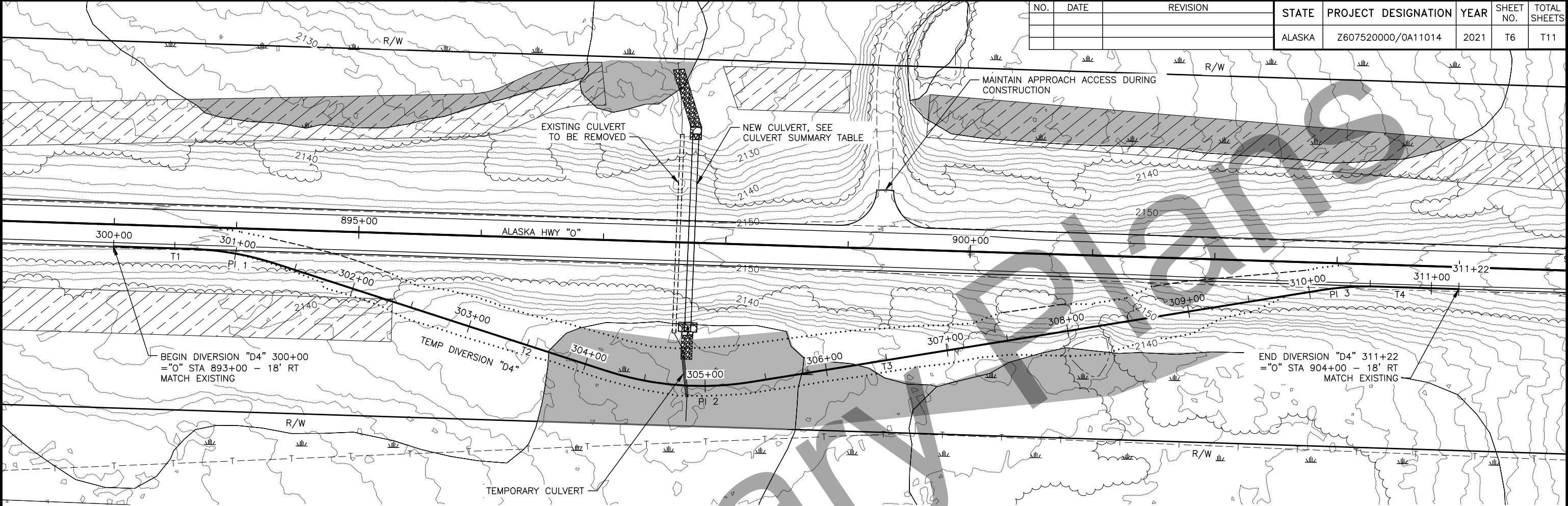
1. SEE TEMPORARY DIVERSION PROFILE AND TEMPORARY DIVERSION TYPICAL ON SHEET T2

D3 PLAN

95%

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	Z607520000/0A11014	2021	T6	T11



"D4" DIVERSION - PLAN VIEW

- LEGEND:
- WETLANDS
 - PERMITTED TEMPORARY IMPACTS
 - RIP RAP
 - DITCH LINING
 - VEGETATION BUFFER

NOTES

1. SEE TEMPORARY DIVERSION PROFILE AND TEMPORARY DIVERSION TYPICAL ON SHEET T2

"D4" DIVERSION ALIGNMENT TABLE								
DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	300+00.0	-	-	-	-	-	76,744.4219'	1,496,802.7915'
T1	-	N 42° 29' 37.0766" W	63.1'	-	-	-	-	-
PI 1	300+98.5	-	70.4'	N 34° 25' 35.1562" W	35.4'	250.0'	76,817.0714'	1,496,736.2353'
T2	-	N 26° 21' 33.2358" W	285.2'	-	-	-	-	-
PI 2	304+79.0	-	118.3'	N 39° 54' 36.1290" W	60.3'	250.0'	77,158.3754'	1,496,567.1131'
T3	-	N 53° 27' 39.0222" W	472.1'	-	-	-	-	-
PI 3	310+33.1	-	47.9'	N 47° 58' 38.0494" W	24.0'	250.0'	77,489.6326'	1,496,120.0840'
T4	-	N 42° 29' 37.0766" W	65.5'	-	-	-	-	-
END	311+22.4	-	-	-	-	-	77,555.6054'	1,496,059.6446'

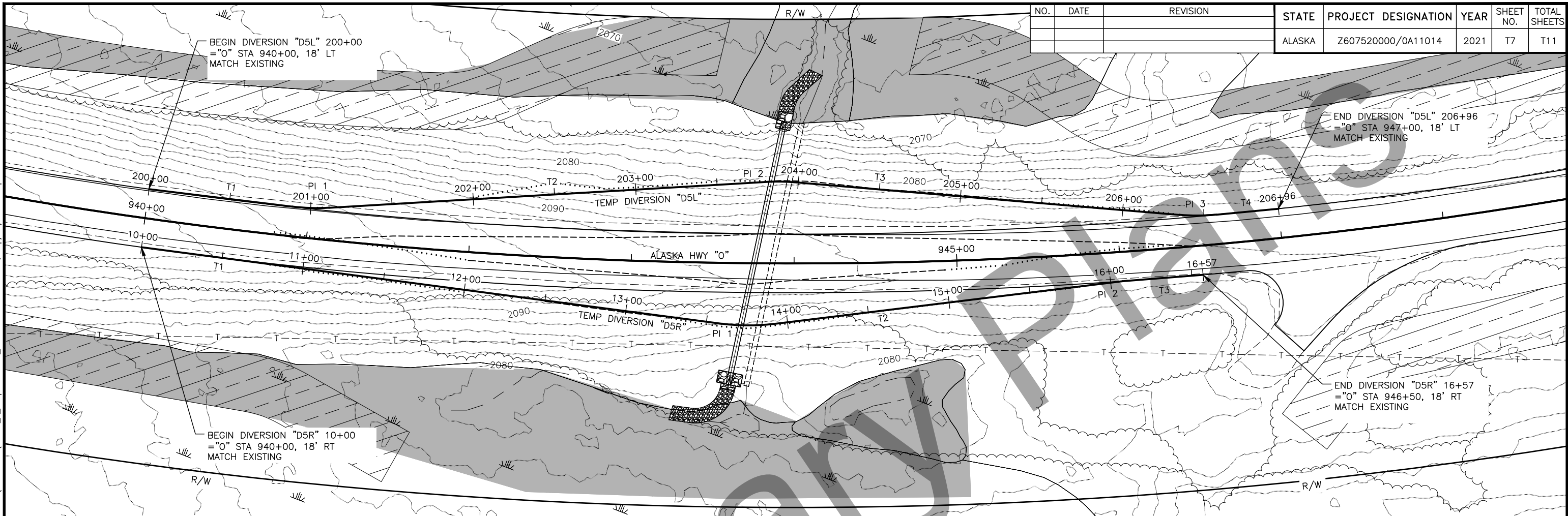
"D4" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	301+10.0	2150.3'	-0.83	0.0'
2	302+00.4	2149.6'	-6.00	100.0'
3	306+26.9	2124.0'	8.00	650.0'
4	311+29.3	2164.2'	3.36	75.0'
5	312+25.3	2167.4'	0.00	0.0'

"D4" 643 TEMPORARY DIVERSION TABLE OF QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	REMARKS
DIVERSION CUT	CUBIC YARD	550	
DIVERSION FILL	CUBIC YARD	2500	
DIVERSION SURFACING COURSE OF COMPACTED E-1	CUBIC YARD	140	
TEMPORARY CULVERT	EACH	1	36" X 50'

D4 PLAN

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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"D5L" & "D5R" DIVERSION – PLAN VIEW

- LEGEND:
- WETLANDS
 - PERMITTED TEMPORARY IMPACTS
 - RIP RAP
 - DITCH LINING
 - VEGETATION BUFFER

"D5L" DIVERSION ALIGNMENT LAYOUT TABLE – HORIZONTAL CONTROL								
DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	200+88.6	–	–	–	–	–	80,118.6836'	1,493,545.3957'
T1	–	N 57° 39' 38.8421" W	88.6'	–	–	–	–	–
PI 1	201+00.0	–	22.6'	N 62° 51' 02.5138" W	11.4'	125.0'	80,172.1693'	1,493,460.9177'
T2	–	N 68° 02' 26.1856" W	269.1'	–	–	–	–	–
PI 2	203+89.4	–	18.0'	N 63° 54' 57.6310" W	9.0'	125.0'	80,280.4044'	1,493,192.4789'
T3	–	N 59° 47' 29.0764" W	236.7'	–	–	–	–	–
PI 3	206+46.4	–	22.6'	N 64° 58' 22.7257" W	11.3'	125.0'	80,409.7445'	1,492,970.3269'
T4	–	N 70° 09' 16.3751" W	38.4'	–	–	–	–	–
END	206+96.0	–	–	–	–	–	80,426.6119'	1,492,923.5924'

"D5R" DIVERSION ALIGNMENT LAYOUT TABLE – HORIZONTAL CONTROL								
DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	10+00.0	–	–	–	–	–	80,148.9874'	1,493,564.8342'
T1	–	N 57° 07' 51.2696" W	359.6'	–	–	–	–	–
PI 1	13+75.5	–	31.7'	N 64° 23' 11.5992" W	15.9'	125.0'	80,352.7670'	1,493,249.4659'
T2	–	N 71° 38' 31.9288" W	213.6'	–	–	–	–	–
PI 2	16+07.5	–	5.4'	N 70° 24' 08.7747" W	2.7'	125.0'	80,425.8921'	1,493,029.1021'
T3	–	N 69° 09' 45.6206" W	46.8'	–	–	–	–	–
END	16+57.0	–	–	–	–	–	80,443.4986'	1,492,982.8433'

"D5L" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	200+74.5	2097.4'	–2.84	0.0'
2	201+24.4	2096.0'	–7.00	50.0'
3	203+80.7	2078.0'	4.00	200.0'
4	206+19.1	2087.6'	–1.06	50.0'
5	206+58.6	2087.1'	0.00	0.0'

"D5R" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	10+70.2	2099.3'	–2.40	0.0'
2	11+31.4	2097.9'	–5.00	50.0'
3	14+08.9	2084.0'	4.00	175.0'
4	15+62.6	2090.1'	–1.59	50.0'
5	16+38.0	2088.9'	0.00	0.0'

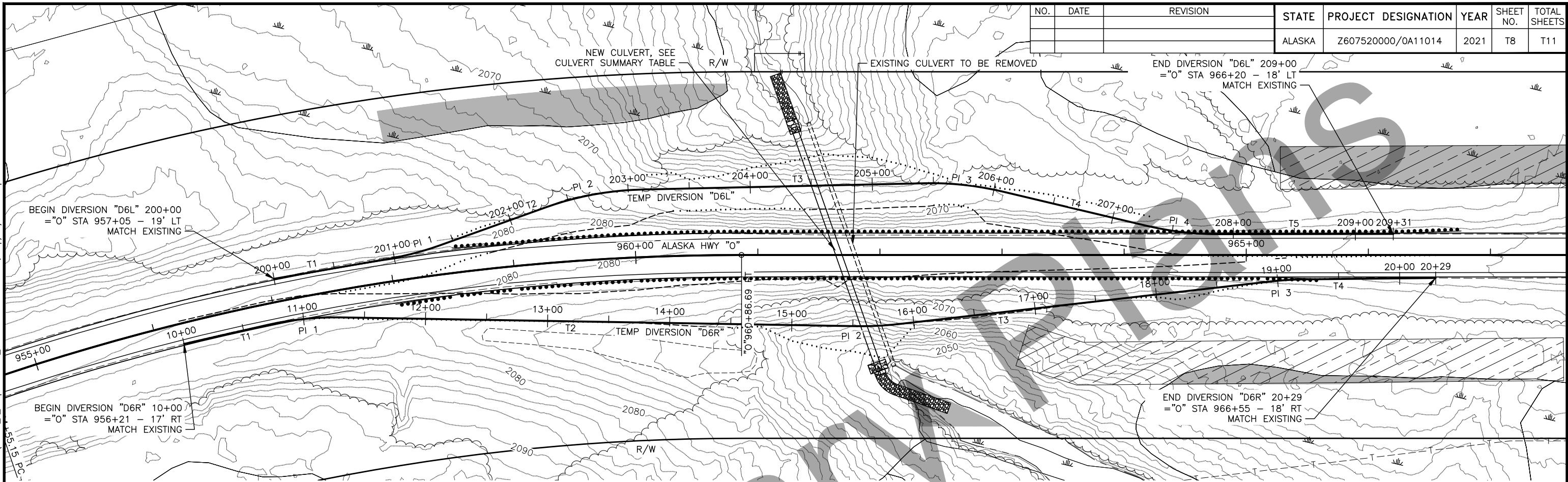
- NOTES
1. SEE TEMPORARY DIVERSION PROFILE AND TEMPORARY DIVERSION TYPICAL ON SHEET T2

"D5L" & "D5R" 643 TEMPORARY DIVERSION TABLE OF QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	REMARKS
DIVERSION CUT	CUBIC YARD	1250	
DIVERSION FILL	CUBIC YARD	1000	
DIVERSION SURFACING COURSE OF COMPACTED E–1	CUBIC YARD	155	

D5 PLAN

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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"D6L" & "D6R" DIVERSION - PLAN VIEW

- LEGEND:
- WETLANDS
 - PERMITTED TEMPORARY IMPACTS
 - RIP RAP
 - DITCH LINING
 - VEGETATION BUFFER

"D6L" DIVERSION ALIGNMENT LAYOUT TABLE

DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	200+00.0	—	—	—	—	—	80,696.0525'	1,491,955.3138'
T1	—	N 66° 59' 51.1768" W	96.1'	—	—	—	—	—
PI 1	201+17.7	—	43.1'	N 71° 55' 52.7276" W	21.6'	250.0'	80,742.0551'	1,491,846.9513'
T2	—	N 76° 51' 54.2784" W	91.4'	—	—	—	—	—
PI 2	202+71.3	—	80.7'	N 67° 37' 22.2569" W	40.7'	250.0'	80,776.9720'	1,491,697.3182'
T3	—	N 58° 22' 50.2355" W	231.7'	—	—	—	—	—
PI 3	205+75.0	—	63.8'	N 51° 04' 29.5279" W	32.1'	250.0'	80,936.5908'	1,491,438.0580'
T4	—	N 43° 46' 08.8204" W	122.3'	—	—	—	—	—
PI 4	207+58.4	—	58.5'	N 50° 28' 13.1883" W	29.4'	250.0'	81,069.2377'	1,491,310.9914'
T5	—	N 57° 10' 17.5563" W	143.5'	—	—	—	—	—
END	209+31.0	—	—	—	—	—	81,162.9770'	1,491,165.6950'

"D6R" DIVERSION ALIGNMENT LAYOUT TABLE

DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	10+00.0	—	—	—	—	—	80,700.8170'	1,492,046.1458'
T1	—	N 69° 56' 01.9880" W	70.0'	—	—	—	—	—
PI 1	11+00.3	—	60.2'	N 63° 01' 59.1255" W	30.3'	250.0'	80,735.2170'	1,491,951.9709'
T2	—	N 56° 07' 56.2630" W	423.4'	—	—	—	—	—
PI 2	15+70.1	—	32.8'	N 59° 53' 22.2043" W	16.4'	250.0'	80,997.1945'	1,491,561.6322'
T3	—	N 63° 38' 48.1455" W	308.7'	—	—	—	—	—
PI 3	19+08.1	—	25.9'	N 60° 41' 02.4102" W	12.9'	250.0'	81,147.2719'	1,491,258.6833'
T4	—	N 57° 43' 16.6749" W	108.5'	—	—	—	—	—
END	20+29.4	—	—	—	—	—	81,212.1020'	1,491,156.0479'

"D6L" DIVERSION PROFILE LAYOUT TABLE

PVI	STA	ELEVATION	GRADE OUT (%)	LVC
1	200+00.0	2082.7'	-0.51	0.0'
2	201+45.1	2082.0'	-6.00	100.0'
3	204+61.8	2063.0'	6.00	250.0'
4	207+37.1	2079.5'	1.57	100.0'
5	209+31.0	2082.6'	0.00	0.0'

"D6R" DIVERSION PROFILE LAYOUT TABLE

PVI	STA	ELEVATION	GRADE OUT (%)	LVC
1	10+00.0	2081.2'	-0.75	0.0'
2	11+20.4	2080.3'	-3.00	100.0'
3	13+51.9	2073.3'	-7.00	100.0'
4	15+35.8	2060.5'	6.00	250.0'
5	18+66.0	2080.3'	1.76	100.0'
6	20+29.4	2083.2'	0.00	0.0'

NOTES

1. SEE TEMPORARY DIVERSION PROFILE AND TEMPORARY DIVERSION TYPICAL ON SHEET T2

"D6L" AND "D6R" 643 TEMPORARY DIVERSION TABLE OF QUANTITIES

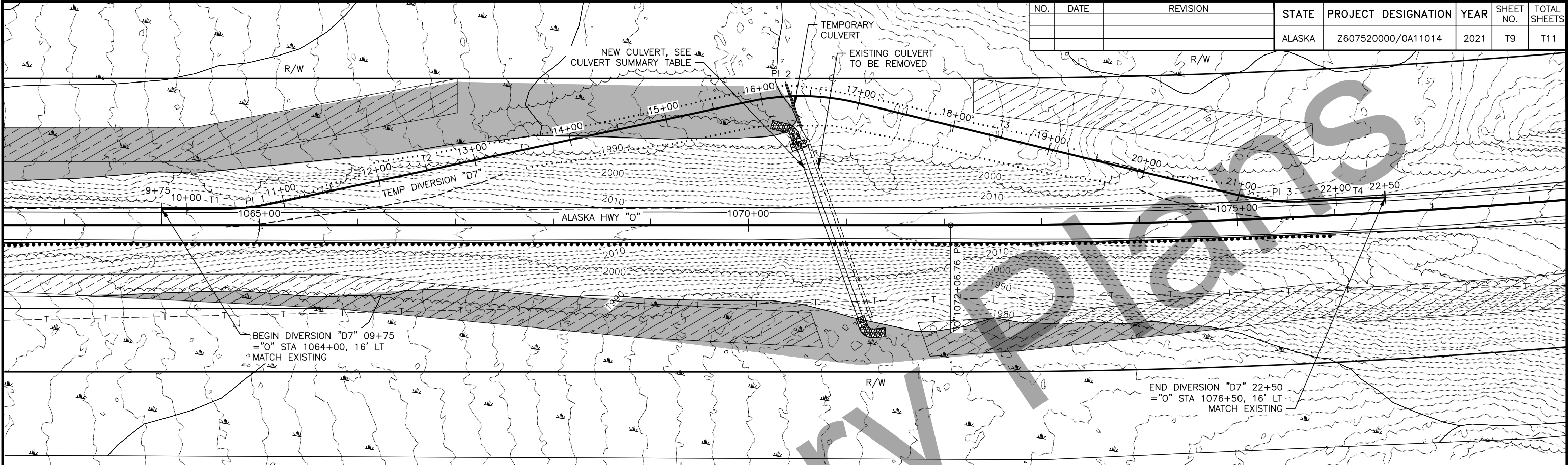
DESCRIPTION	UNIT	QUANTITY	REMARKS
DIVERSION CUT	CUBIC YARD	1750	
DIVERSION FILL	CUBIC YARD	1150	
DIVERSION SURFACING COURSE OF COMPACTED E-1	CUBIC YARD	225	

D6 PLAN

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 98503 (907) 273-1600
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z607520000/OA11014	2021	T9	T11



"D7" DIVERSION – PLAN VIEW

LEGEND:	
	WETLANDS
	PERMITTED TEMPORARY IMPACTS
	RIP RAP
	DITCH LINING
	VEGETATION BUFFER

"D7" DIVERSION ALIGNMENT TABLE									
DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING	
BEGIN	9+75.0	—	—	—	—	—	86,257.7697'	1,483,368.3177'	
T1	—	N 53° 19' 22.7643" W	59.6'	—	—	—	—	—	
PI 1	10+61.1	—	52.9'	N 59° 22' 52.0188" W	26.5'	250.0'	86,309.2058'	1,483,299.2531'	
T2	—	N 65° 26' 21.2733" W	499.9'	—	—	—	—	—	
PI 2	16+44.3	—	112.0'	N 52° 36' 22.1205" W	57.0'	250.0'	86,551.6899'	1,482,768.6619'	
T3	—	N 39° 46' 22.9677" W	399.2'	—	—	—	—	—	
PI 3	21+35.0	—	72.5'	N 48° 04' 50.8509" W	36.5'	250.0'	86,930.3286'	1,482,453.4937'	
T4	—	N 56° 23' 18.7340" W	79.5'	—	—	—	—	—	
END	22+50.5	—	—	—	—	—	86,994.5249'	1,482,356.9124'	

"D7" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	10+11.8	2023.5'	-3.03	0.0'
2	10+76.2	2021.6'	-8.00	50.0'
3	15+71.7	1981.9'	6.00	400.0'
4	21+24.8	2015.1'	2.34	50.0'
5	21+75.0	2016.3'	0.00	0.0'

"D7" 643 TEMPORARY DIVERSION TABLE OF QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	REMARKS
DIVERSION CUT	CUBIC YARD	250	
DIVERSION FILL	CUBIC YARD	4500	
DIVERSION SURFACING COURSE OF COMPACTED E-1	CUBIC YARD	135	
TEMPORARY CULVERT	EACH	1	36" X 50'

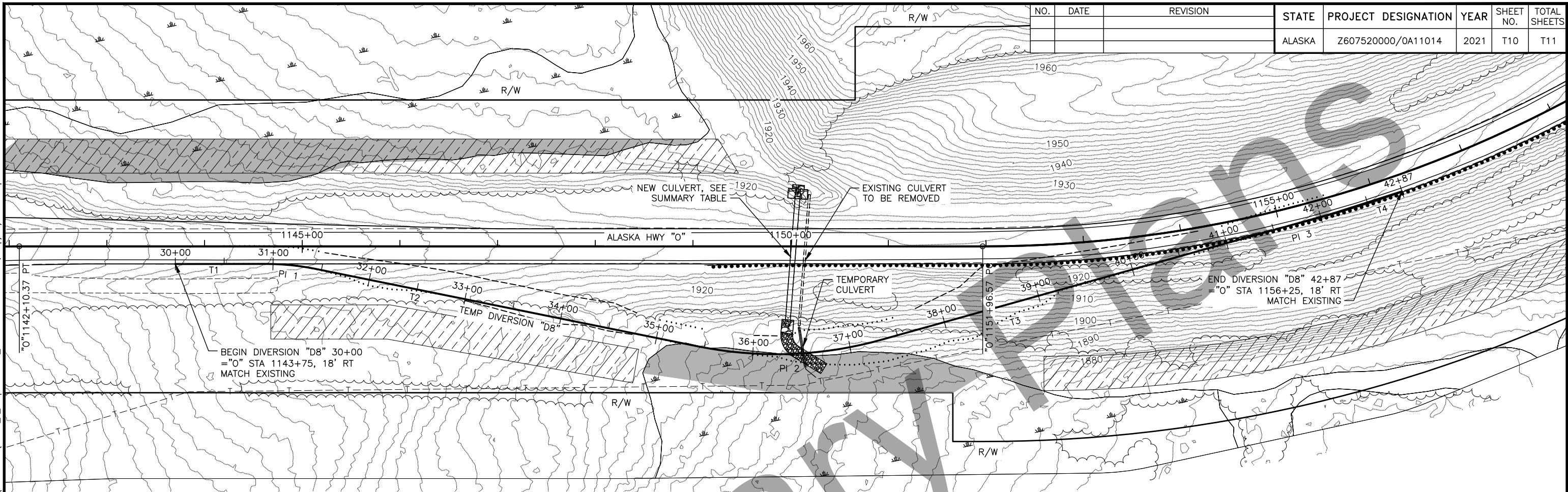
NOTES

1. SEE TEMPORARY DIVERSION PROFILE AND TEMPORARY DIVERSION TYPICAL ON SHEET T2

D7 PLAN

95%

PLANS DEVELOPED BY: MICHAEL BAKER INTERNATIONAL, AEC0103, 3900 C STREET SUITE 900, ANCHORAGE, AK 99503 (907) 273-1600
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"D8" DIVERSION – PLAN VIEW

- LEGEND:
- WETLANDS
 - PERMITTED TEMPORARY IMPACTS
 - RIP RAP
 - DITCH LINING
 - VEGETATION BUFFER

NOTES

1. SEE TEMPORARY DIVERSION PROFILE AND TEMPORARY DIVERSION TYPICAL ON SHEET T2

"D8" DIVERSION ALIGNMENT TABLE								
DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	30+00.0	—	—	—	—	—	90,573.7948'	1,476,770.6733'
T1	—	N 31° 54' 19.4225" W	93.3'	—	—	—	—	—
PI 1	31+18.5	—	50.2'	N 26° 08' 56.7737" W	25.2'	250.0'	90,674.4190'	1,476,708.0271'
T2	—	N 20° 23' 34.1249" W	400.3'	—	—	—	—	—
PI 2	36+40.3	—	189.2'	N 33° 56' 43.0666" W	96.4'	400.0'	91,163.6605'	1,476,526.1497'
T3	—	N 47° 29' 52.0082" W	475.3'	—	—	—	—	—
PI 3	42+12.9	—	9.1'	N 48° 32' 15.9698" W	4.5'	250.0'	91,552.9755'	1,476,101.3199'
T4	—	N 49° 34' 39.9313" W	69.7'	—	—	—	—	—
END	42+87.2	—	—	—	—	—	91,601.1270'	1,476,044.7866'

"D8" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	30+49.8	1942.1'	−4.56	0.0'
2	31+49.6	1937.6'	−8.00	100.0'
3	36+75.0	1895.6'	8.00	300.0'
4	41+15.1	1930.8'	2.04	100.0'
5	42+08.4	1932.7'	0.00	0.0'

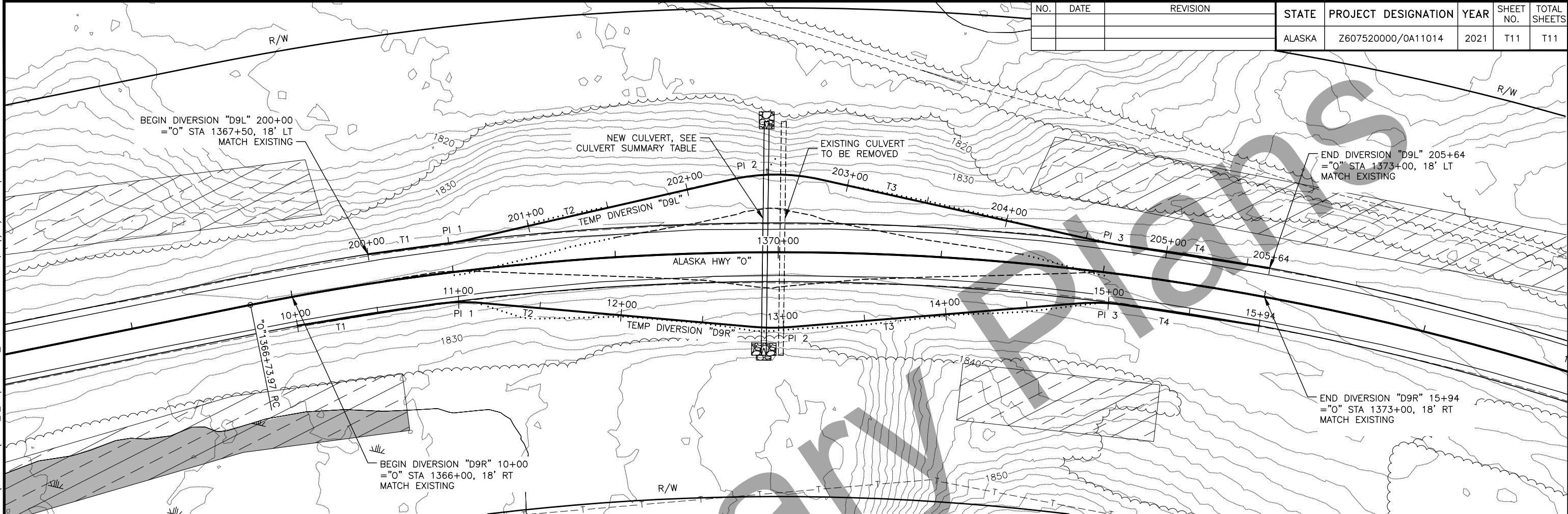
"D8" 643 TEMPORARY DIVERSION TABLE OF QUANTITIES			
DESCRIPTION	UNIT	QUANTITY	REMARKS
DIVERSION CUT	CUBIC YARD	1500	
DIVERSION FILL	CUBIC YARD	1450	
DIVERSION SURFACING COURSE OF COMPACTED E-1	CUBIC YARD	135	
TEMPORARY CULVERT	EACH	1	24" X 50'

D8 PLAN

95%

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	Z607520000/0A11014	2021	T11	T11



"D9L" & "D9R" DIVERSION - PLAN VIEW

LEGEND:	
	WETLANDS
	PERMITTED TEMPORARY IMPACTS
	RIP RAP
	DITCH LINING
	VEGETATION BUFFER

"D9L" DIVERSION ALIGNMENT LAYOUT TABLE								
DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	200+00.0	-	-	-	-	-	105,188.9692'	1,461,479.6477'
T1	-	N 64° 02' 45.2181" W	50.7'	-	-	-	-	-
PI 1	200+56.2	-	11.1'	N 66° 36' 04.0677" W	5.6'	125.0'	105,213.5836'	1,461,429.0778'
T2	-	N 69° 09' 22.9173" W	165.5'	-	-	-	-	-
PI 2	202+55.4	-	55.4'	N 56° 28' 11.5900" W	28.1'	125.0'	105,284.4623'	1,461,242.9157'
T3	-	N 43° 47' 00.2628" W	176.7'	-	-	-	-	-
PI 3	204+63.4	-	8.1'	N 45° 38' 47.0001" W	4.1'	125.0'	105,435.2485'	1,461,098.4007'
T4	-	N 47° 30' 33.7374" W	96.7'	-	-	-	-	-
END	205+64.1	-	-	-	-	-	105,503.2831'	1,461,024.1295'

"D9R" DIVERSION ALIGNMENT LAYOUT TABLE								
DESCRIPTION	STA	BEARING	LENGTH	DELTA	TAN	RAD	NORTHING	EASTING
BEGIN	10+00.0	-	-	-	-	-	105,201.4058'	1,461,539.9871'
T1	-	N 65° 09' 27.2474" W	83.6'	-	-	-	-	-
PI 1	10+98.9	-	30.4'	N 58° 11' 59.1072" W	15.3'	125.0'	105,242.9530'	1,461,450.2453'
T2	-	N 51° 14' 30.9670" W	168.6'	-	-	-	-	-
PI 2	12+93.2	-	21.2'	N 56° 06' 17.2742" W	10.6'	125.0'	105,364.6824'	1,461,298.6174'
T3	-	N 60° 58' 03.5813" W	177.6'	-	-	-	-	-
PI 3	14+96.2	-	29.4'	N 54° 13' 51.7013" W	14.8'	125.0'	105,463.2172'	1,461,121.0922'
T4	-	N 47° 29' 39.8213" W	82.7'	-	-	-	-	-
END	15+93.5	-	-	-	-	-	105,529.0737'	1,461,049.2365'

"D9L" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	200+50.7	1838.6'	-0.26	0.0'
2	200+94.0	1838.5'	-3.00	50.0'
3	203+19.1	1831.8'	6.00	175.0'
4	204+38.2	1838.9'	1.39	50.0'
5	205+17.6	1840.0'	0.00	0.0'

"D9R" DIVERSION PROFILE LAYOUT TABLE				
PVI	STATION	ELEVATION	GRADE OUT (%)	LVC
1	10+57.3	1836.8'	-0.57	0.0'
2	11+15.1	1836.5'	-5.00	50.0'
3	13+05.6	1827.0'	6.00	200.0'
4	14+72.3	1837.0'	1.33	50.0'
5	15+34.9	1837.8'	0.00	0.0'

NOTES

1. SEE TEMPORARY DIVERSION PROFILE AND TEMPORARY DIVERSION TYPICAL ON SHEET T2

"D9L" & "D9R" 643 TEMPORARY DIVERSION TABLE OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
DIVERSION CUT	CUBIC YARD	1600
DIVERSION FILL	CUBIC YARD	1450
DIVERSION SURFACING COURSE OF COMPACTED E-1	CUBIC YARD	135

D9 PLAN

95%