

STATE	PROJECT	SHEET NUMBER
AK	DOT 125(1)	D.37

PROJECT UNITS : US SURVEY FOOT

COORDINATE SYSTEM : Alaska zone 4 SPCS scaled to ground

VERTICAL DATUM : Differential levels holding beginning elevation at CP13101

GPK FILE DATED September 2013

POINT NUMBER	PROJECT COORDINATES			GEO COORDINATES				DESCRIPTION
	NORTH	EAST	ELEVATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	COMBINED FACTOR	
13221	226332.335	183413.596	1338.449	61°47'36.438276" N	148°22'16.662254" W	1399.1559	0.99992411	5/8"IR W/FHWA ALUM CAP
13222	226425.044	184119.374	1339.052	61°47'37.176479" N	148°22'01.938934" W	1399.7983	0.99992454	5/8"IR W/FHWA ALUM CAP
13223	226533.037	184848.730	1348.042	61°47'38.058821" N	148°21'46.717173" W	1408.8286	0.99992457	5/8"IR W/FHWA ALUM CAP
13224	226640.961	185507.217	1347.147	61°47'38.957625" N	148°21'32.968797" W	1407.9697	0.99992504	5/8"IR W/FHWA ALUM CAP
13225	226748.870	186178.773	1351.488	61°47'39.852653" N	148°21'18.948466" W	1412.3448	0.99992527	5/8"IR W/FHWA ALUM CAP
13226	226785.732	186578.346	1364.767	61°47'40.115875" N	148°21'10.620708" W	1425.6442	0.99992489	5/8"IR W/FHWA ALUM CAP
13227	226781.176	187131.213	1387.059	61°47'39.933009" N	148°20'59.127364" W	1447.9614	0.99992418	5/8"IR W/FHWA ALUM CAP
13228	226761.251	187653.085	1411.279	61°47'39.606377" N	148°20'48.286634" W	1472.2047	0.99992337	5/8"IR W/FHWA ALUM CAP
13229	226854.255	188170.552	1427.911	61°47'40.392081" N	148°20'37.477737" W	1488.8646	0.99992291	5/8"IR W/FHWA ALUM CAP
13230	227000.510	188729.476	1453.595	61°47'41.691254" N	148°20'25.778415" W	1514.5808	0.99992205	5/8"IR W/FHWA ALUM CAP
13231	226933.419	189389.958	1490.343	61°47'40.864761" N	148°20'12.080608" W	1551.3563	0.99992072	5/8"IR W/FHWA ALUM CAP
13232	226932.524	189857.734	1509.182	61°47'40.738038" N	148°20'02.354620" W	1570.2167	0.99992013	5/8"IR W/FHWA ALUM CAP
13233	226876.892	190385.657	1529.881	61°47'40.057197" N	148°19'51.407257" W	1590.9373	0.99991949	2"DIA ALUM CAP GH 82.0
13234	226988.306	190986.582	1555.066	61°47'41.001722" N	148°19'38.852755" W	1616.1545	0.99991868	5/8"IR W/FHWA ALUM CAP
13235	227139.455	191597.089	1588.403	61°47'42.334576" N	148°19'26.077504" W	1649.5256	0.99991749	5/8"IR W/FHWA ALUM CAP
13236	227321.983	192183.752	1588.804	61°47'43.981996" N	148°19'13.780886" W	1649.9607	0.99991786	5/8"IR W/FHWA ALUM CAP
13237	227523.485	192984.138	1632.946	61°47'45.761373" N	148°18'57.029572" W	1694.1467	0.99991628	5/8"IR W/FHWA ALUM CAP
13238	227590.129	193533.512	1656.822	61°47'46.277058" N	148°18'45.570095" W	1718.0496	0.99991551	5/8"IR W/FHWA ALUM CAP
13239	227708.083	194237.479	1686.870	61°47'47.257882" N	148°18'30.868164" W	1748.1333	0.99991454	5/8"IR W/FHWA ALUM CAP
13240	227753.326	194924.708	1693.562	61°47'47.526949" N	148°18'16.553476" W	1754.8568	0.99991468	5/8"IR W/FHWA ALUM CAP
13241	227788.278	195695.954	1690.262	61°47'47.672685" N	148°18'00.497286" W	1751.5916	0.99991535	5/8"IR W/FHWA ALUM CAP
13242	227883.629	196573.003	1698.543	61°47'48.385036" N	148°17'42.208053" W	1759.9143	0.99991554	2"DIA ALUM CAP GH 83.2
13243	227841.944	197301.508	1709.979	61°47'47.786465" N	148°17'27.082358" W	1771.3782	0.99991548	5/8"IR W/FHWA ALUM CAP
13244	227854.342	197810.074	1700.613	61°47'47.776752" N	148°17'16.500562" W	1762.0348	0.99991627	5/8"IR W/FHWA ALUM CAP
13245	227849.550	198546.529	1712.363	61°47'47.538418" N	148°17'01.189522" W	1773.8173	0.9999162	5/8"IR W/FHWA ALUM CAP
13246	227837.599	199276.239	1695.375	61°47'47.230915" N	148°16'46.022760" W	1756.8621	0.9999175	5/8"IR W/FHWA ALUM CAP
13247	227878.181	199721.494	1667.309	61°47'47.514231" N	148°16'36.741960" W	1728.8184	0.99991914	5/8"

Note: To precisely check distances between points as measured on the ground, inverse the state plane coordinates and divide the computed distance by a mean combined factor of the two points.

SURVEY CONTROL

Sheet 4 of 6

STATE	PROJECT	SHEET NUMBER
AK	DOT 125(1)	D.38

PROJECT : Glenn Highway
DATE OF FIELD WORK : Summer 2013

PROJECT UNITS : US SURVEY FOOT
COORDINATE SYSTEM : Alaska zone 4 SPCS scaled to ground

VERTICAL DATUM : Differential levels holding beginning elevation at CP13101

GPB FILE DATED September 2013

POINT NUMBER	PROJECT COORDINATES			GEO COORDINATES				DESCRIPTION
	NORTH	EAST	ELEVATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	COMBINED FACTOR	
13261	230812.036	206479.342	1497.305	61°48'14.605179" N	148°14'14.570009" W	1559.2471	0.99993186	2"DIA ALUM CAP GH 85.3
13262	231111.604	207053.493	1512.822	61°48'17.400039" N	148°14'02.459384" W	1574.8032	0.99993152	5/8"IR W/FHWA ALUM CAP
13263	231422.573	207893.815	1549.663	61°48'20.235454" N	148°13'44.805535" W	1611.696	0.99993034	5/8"IR W/FHWA ALUM CAP
13264	231693.568	208264.064	1569.649	61°48'22.803140" N	148°13'36.950880" W	1631.7112	0.99992964	5/8"IR W/FHWA ALUM CAP
13265	231900.594	208902.467	1599.031	61°48'24.669025" N	148°13'23.554592" W	1661.1306	0.99992869	5/8"IR W/FHWA ALUM CAP
13266	232205.777	209823.526	1648.972	61°48'27.424317" N	148°13'04.222531" W	1711.1287	0.99992695	5/8"IR W/FHWA ALUM CAP
13267	232301.027	210508.024	1675.857	61°48'28.176780" N	148°12'49.930245" W	1738.0511	0.99992614	5/8"IR W/FHWA ALUM CAP
13268	232618.359	211365.132	1730.727	61°48'31.067665" N	148°12'31.920038" W	1792.9989	0.99992413	5/8"IR W/FHWA ALUM CAP
13269	232763.044	212147.951	1782.856	61°48'32.278975" N	148°12'15.553459" W	1845.1751	0.99992219	5/8"IR W/FHWA ALUM CAP
13270	232855.284	212761.598	1820.175	61°48'33.019720" N	148°12'02.735758" W	1882.5263	0.99992084	5/8"IR W/FHWA ALUM CAP
13271	232985.939	213507.175	1870.377	61°48'34.102158" N	148°11'47.151396" W	1932.7663	0.99991898	5/8"IR W/FHWA ALUM CAP
13272	233108.119	214038.754	1900.513	61°48'35.159280" N	148°11'36.023125" W	1962.9295	0.99991791	5/8"IR W/FHWA ALUM CAP
13273	233181.106	214486.973	1930.216	61°48'35.754855" N	148°11'26.657188" W	1992.6506	0.99991682	5/8"IR W/FHWA ALUM CAP
13274	233195.395	214846.604	1957.254	61°48'35.796886" N	148°11'19.167978" W	2019.703	0.99991578	2"DIA ALUM CAP GH 87.1
13275	233395.089	215204.637	1967.614	61°48'37.663892" N	148°11'11.604362" W	2030.086	0.99991554	5/8"IR W/FHWA ALUM CAP
13276	233593.922	215435.430	1976.369	61°48'39.557286" N	148°11'06.687908" W	2038.8594	0.99991529	5/8"IR W/FHWA ALUM CAP
13277	233755.633	215933.421	1976.605	61°48'41.011773" N	148°10'56.234423" W	2039.1216	0.99991563	5/8"IR W/FHWA ALUM CAP
13278	233866.982	216281.993	1969.801	61°48'42.011594" N	148°10'48.918366" W	2032.3357	0.9999162	5/8"IR W/FHWA ALUM CAP
13279	233990.899	216666.992	1949.449	61°48'43.124942" N	148°10'40.837062" W	2012.004	0.99991745	5/8"IR W/FHWA ALUM CAP
13280	234050.491	217166.460	1935.777	61°48'43.573479" N	148°10'30.411860" W	1998.353	0.99991846	5/8"IR W/FHWA ALUM CAP
13281	233887.685	217652.705	1937.123	61°48'41.836760" N	148°10'20.391780" W	1999.7059	0.99991874	5/8"IR W/FHWA ALUM CAP
13282	233781.581	218212.623	1954.928	61°48'40.637442" N	148°10'08.806201" W	2017.527	0.99991829	5/8"IR W/FHWA ALUM CAP
13283	233867.813	218686.865	1956.308	61°48'41.354484" N	148°09'58.890240" W	2018.9296	0.99991857	5/8"IR W/FHWA ALUM CAP
13284	233557.914	219404.090	1947.995	61°48'38.105282" N	148°09'44.152519" W	2010.6314	0.99991948	5/8"IR W/FHWA ALUM CAP
13285	233467.739	219848.317	1953.928	61°48'37.094122" N	148°09'34.964933" W	2016.5788	0.99991952	5/8"IR W/FHWA ALUM CAP
13286	233695.371	220257.199	1965.697	61°48'39.220286" N	148°09'26.325260" W	2028.3773	0.99991925	5/8"IR W/FHWA ALUM CAP
13287	233979.395	220659.095	1973.122	61°48'41.903214" N	148°09'17.797287" W	2035.8328	0.99991919	5/8"IR W/FHWA

Note: To precisely check distances between points as measured on the ground, inverse the state plane coordinates and divide the computed distance by a mean combined factor of the two points.

SURVEY CONTROL

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PROJECT :Glenn Highway
DATE OF FIELD WORK : Summer 2013

PROJECT UNITS : US SURVEY FOOT
COORDINATE SYSTEM : Alaska zone 4 SPCS scaled to ground

VERTICAL DATUM : Differential levels holding beginning elevation at CP13101

GPK FILE DATED September 2013

STATE	PROJECT	SHEET NUMBER
AK	DOT 125(1)	D.39

POINT NUMBER	PROJECT COORDINATES			GEO COORDINATES				DESCRIPTION
	NORTH	EAST	ELEVATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	COMBINED FACTOR	
13301	231994.150	231153.578	2281.700	61°48'19.385999" N	148°05'40.703845" W	2344.7629	0.9999122	5/8"IR W/FHWA ALUM CAP
13302	231730.166	232079.261	2298.495	61°48'16.520690" N	148°05'21.613426" W	2361.5697	0.99991209	3"DIA BRASS CAP PURIN 1944
13303	231605.553	232788.719	2282.868	61°48'15.088897" N	148°05'06.935275" W	2345.9666	0.99991337	5/8"IR W/FHWA ALUM CAP
13304	231460.519	233395.499	2259.627	61°48'13.485544" N	148°04'54.405390" W	2322.7479	0.99991493	5/8"IR W/FHWA ALUM CAP
13305	231270.317	234150.273	2228.447	61°48'11.394301" N	148°04'38.825980" W	2291.6004	0.99991699	5/8"IR W/FHWA ALUM CAP
13306	231314.169	234849.343	2218.672	61°48'11.622111" N	148°04'24.261265" W	2281.8838	0.99991798	5/8"IR W/FHWA ALUM CAP
13307	231326.514	235422.298	2191.705	61°48'11.576296" N	148°04'12.338596" W	2254.9496	0.9999197	5/8"IR W/FHWA ALUM CAP
13308	231148.447	236098.267	2159.386	61°48'09.626228" N	148°03'58.391543" W	2222.6598	0.99992176	5/8"IR W/FHWA ALUM CAP
13309	230923.098	236499.598	2155.433	61°48'07.291030" N	148°03'50.185355" W	2218.7186	0.99992225	1 1/4"OPC AK DOT
13310	230584.687	236800.584	2136.075	61°48'03.872530" N	148°03'44.136230" W	2199.3629	0.9999234	5/8"IR W/FHWA ALUM CAP
13311	230146.710	237263.783	2091.772	61°47'59.426505" N	148°03'34.776314" W	2155.0642	0.99992587	5/8"IR W/FHWA ALUM CAP
13312	229647.375	237749.837	2054.126	61°47'54.369774" N	148°03'24.980086" W	2117.4051	0.99992803	5/8"IR W/FHWA ALUM CAP
13313	229078.387	238275.677	2014.131	61°47'48.615688" N	148°03'14.400906" W	2077.4104	0.99993034	5/8"IR W/FHWA ALUM CAP
13314	228474.073	239100.370	1980.160	61°47'42.425516" N	148°02'57.631689" W	2043.4525	0.9999326	5/8"IR W/FHWA ALUM CAP
13315	228158.712	239922.574	1944.299	61°47'39.079009" N	148°02'40.735348" W	2007.6161	0.99993494	5/8"IR W/FHWA ALUM CAP
13316	227759.596	240936.345	1867.133	61°47'34.850860" N	148°02'19.910177" W	1930.4862	0.9999394	3"DIA ALUM CAP AKDOT 92.7
13317	227252.739	243553.009	1788.665	61°47'29.083123" N	148°01'25.834587" W	1852.1203	0.99994516	3"DIA ALUM CAP AKDOT 93.2

Note: To precisely check distances between points as measured on the ground, inverse the state plane coordinates and divide the computed distance by a mean combined factor of the two points.

SURVEY CONTROL

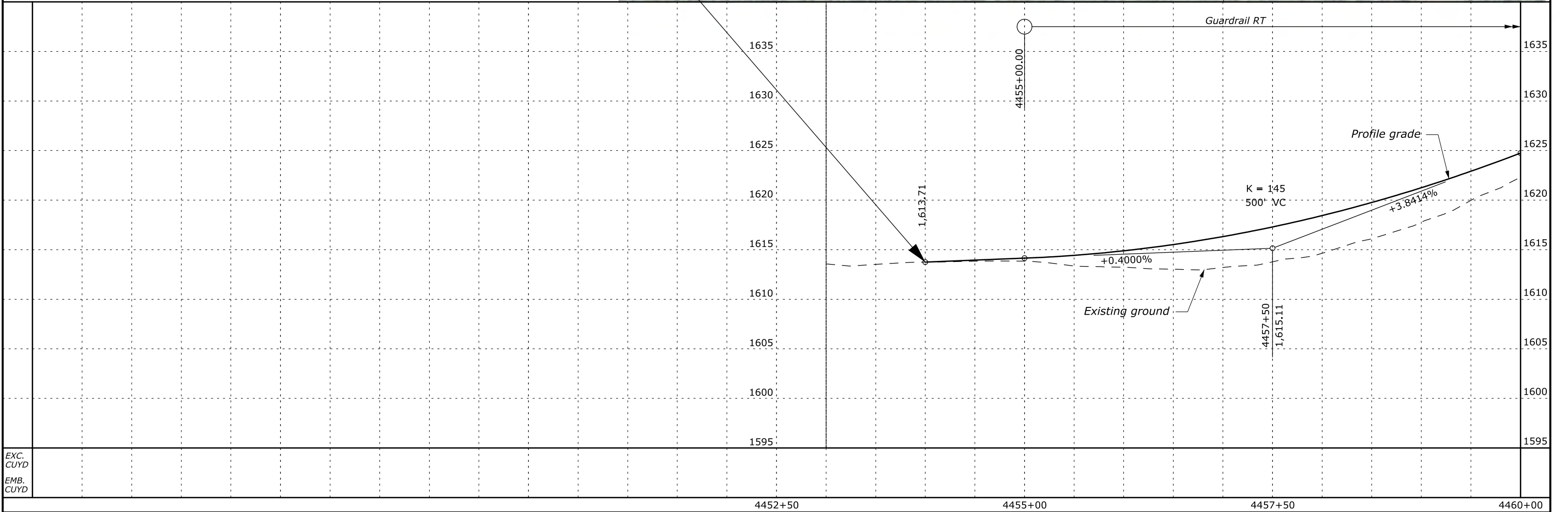
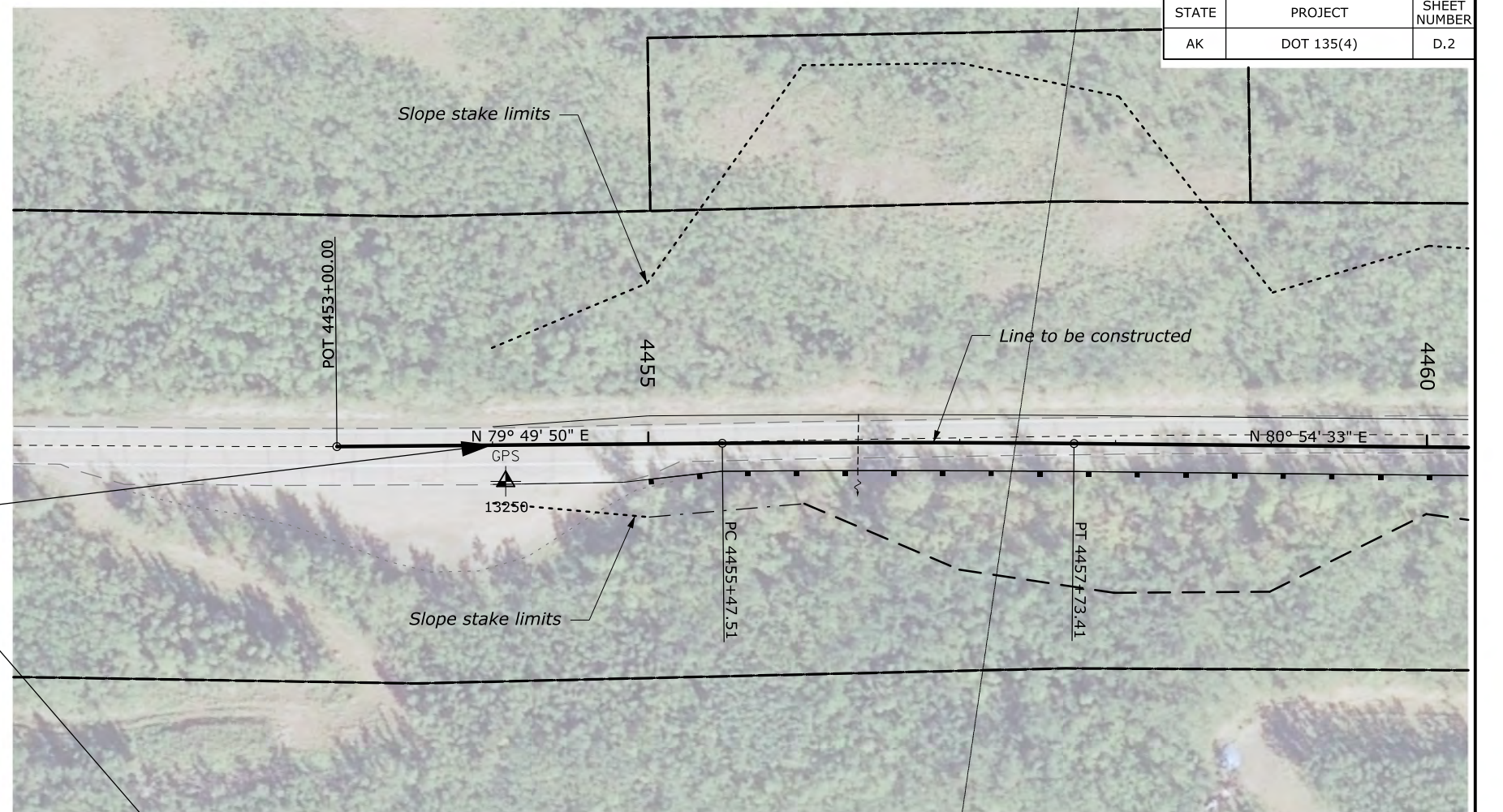
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AK	DOT 135(4)	D.2



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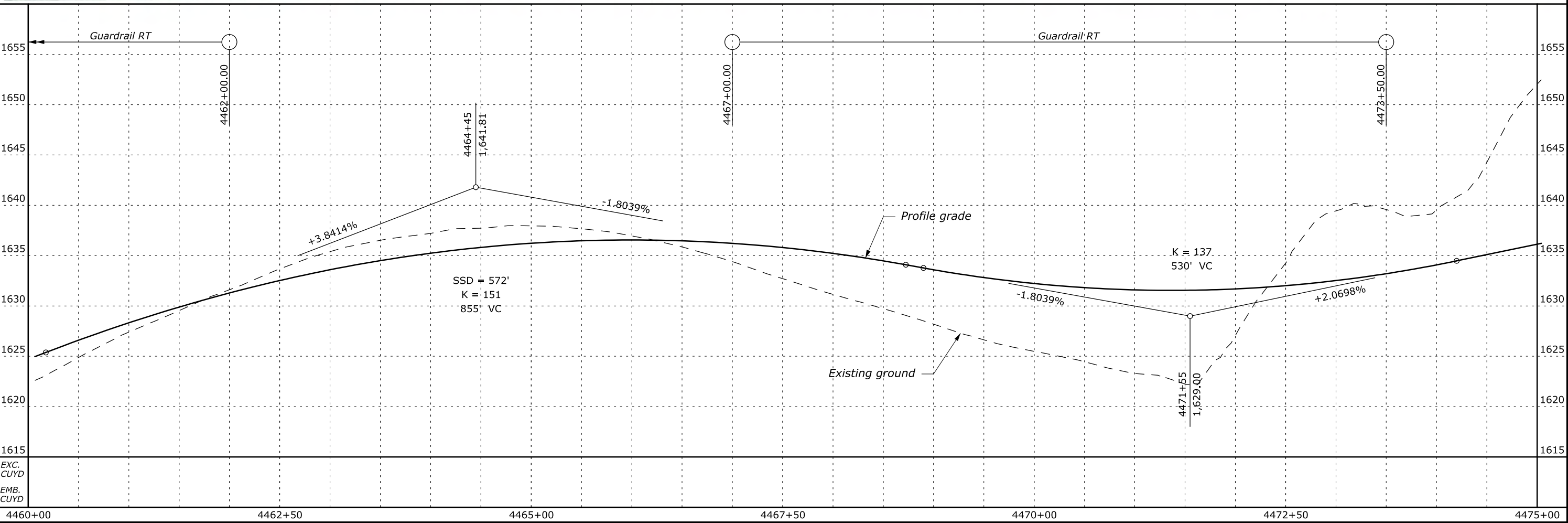
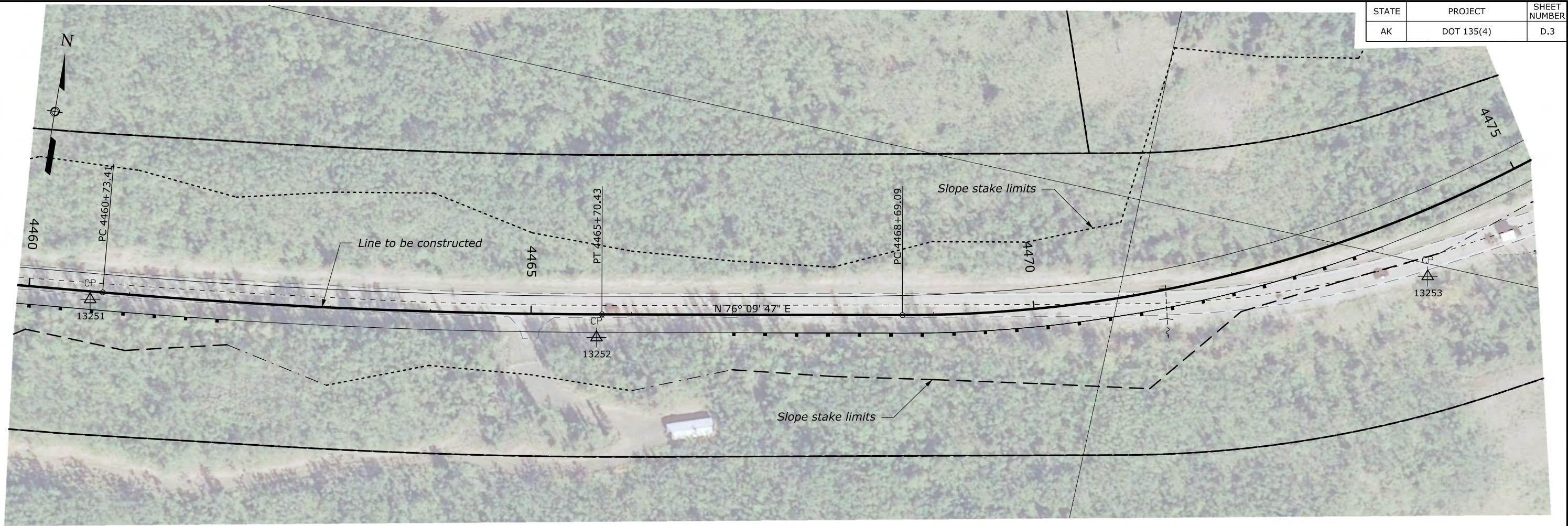
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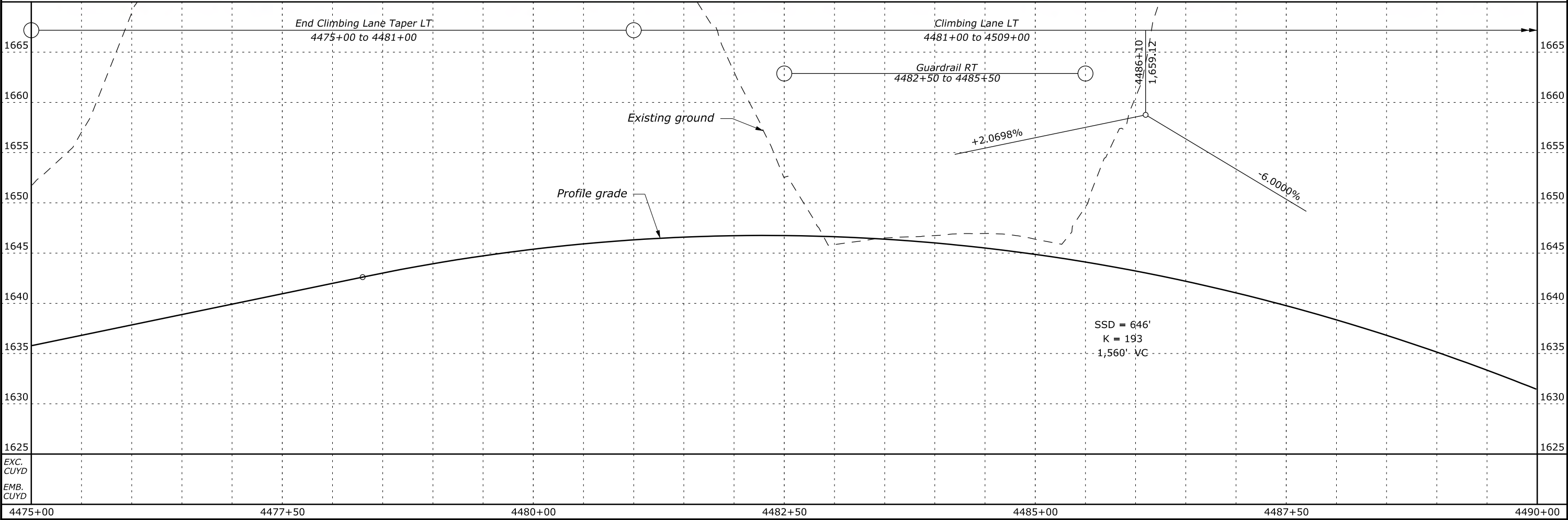
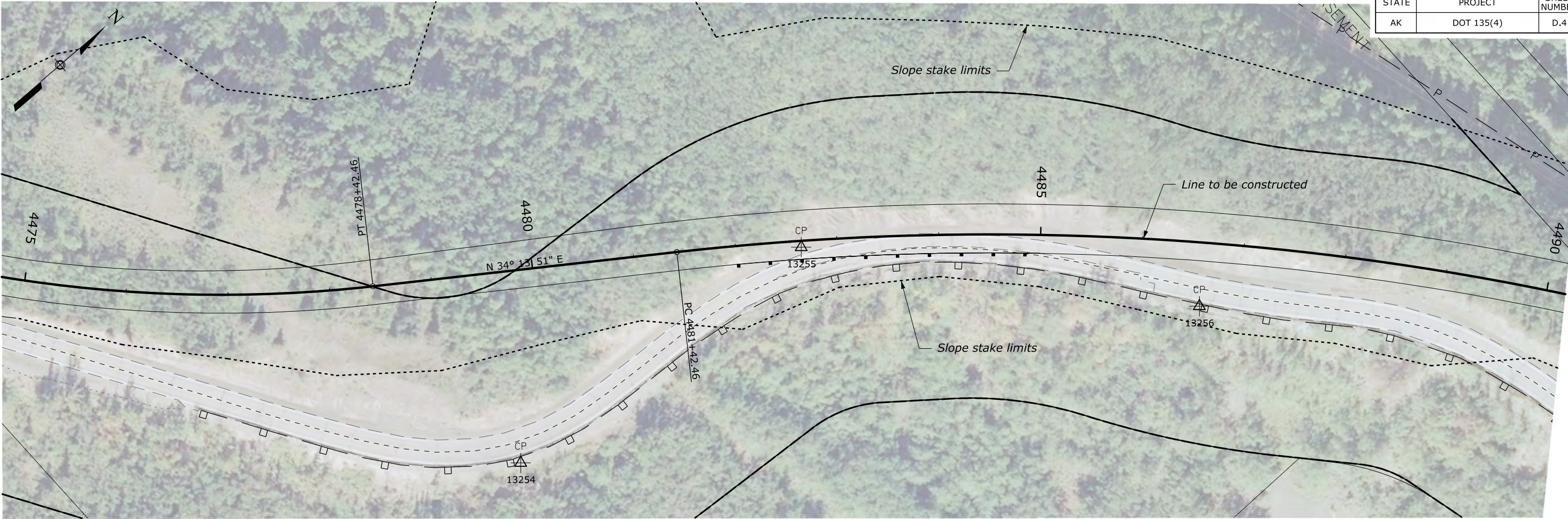
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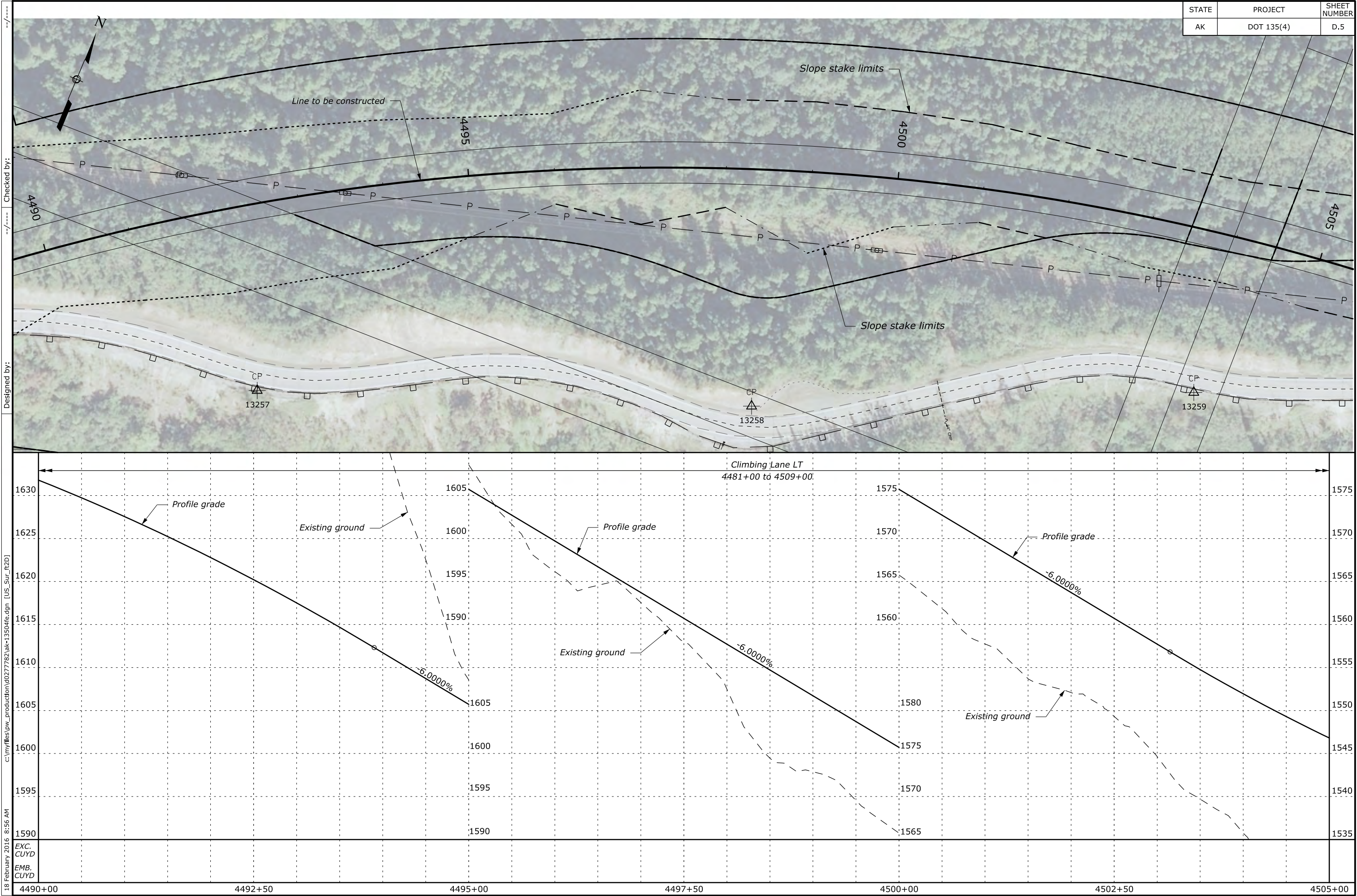
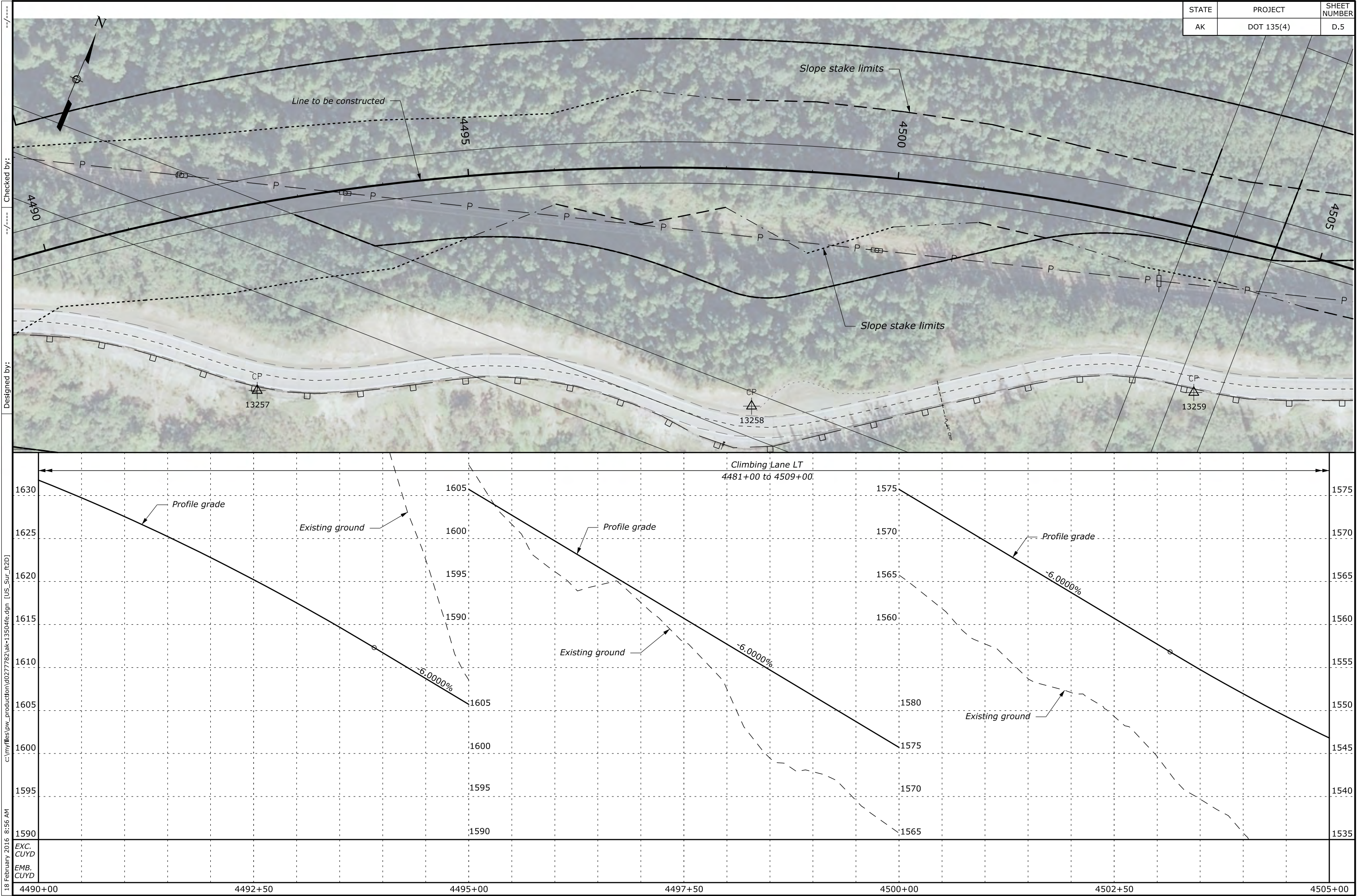
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AK	DOT 135(4)	D.3



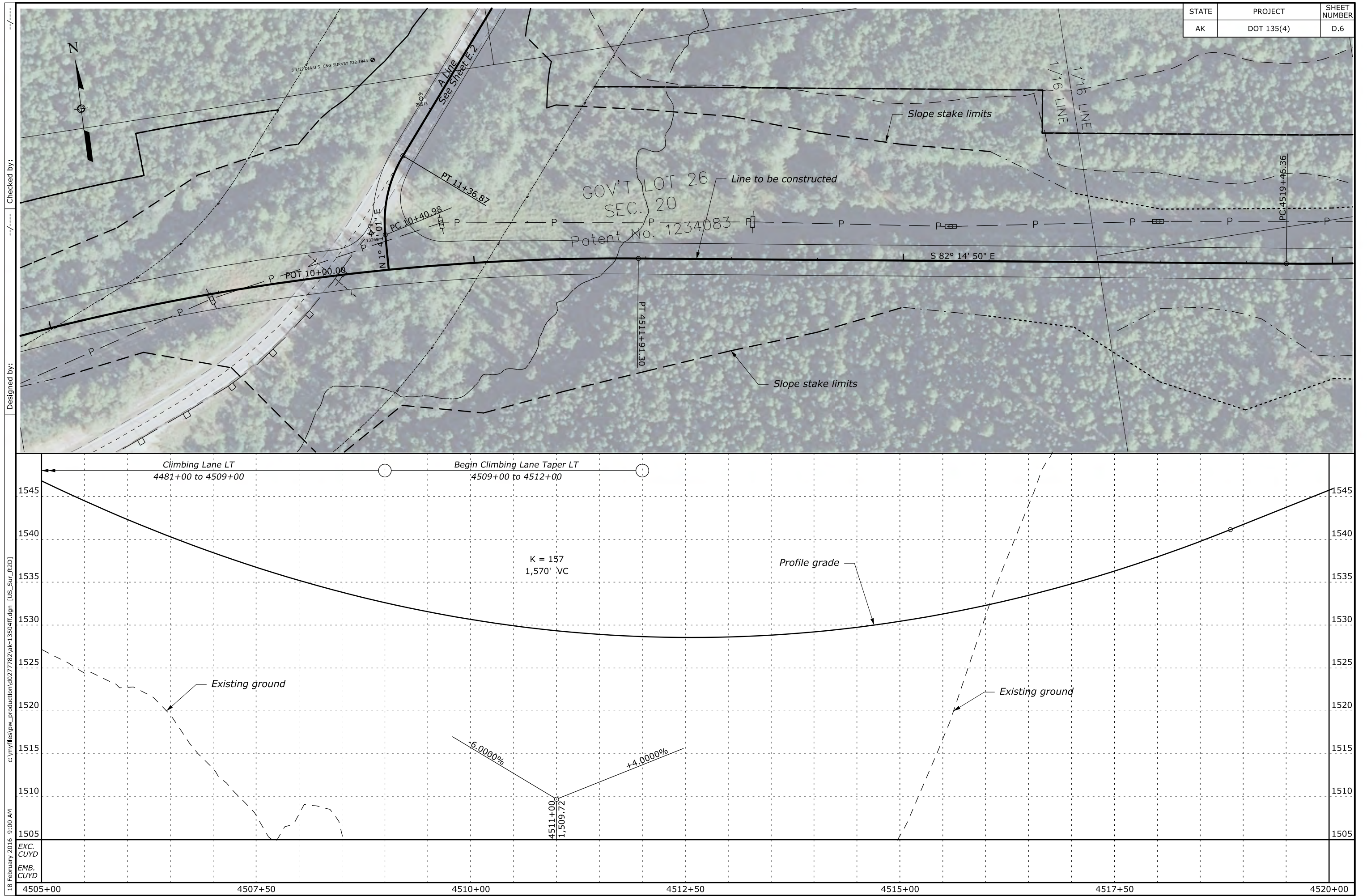
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AK	DOT 135(4)	D.4



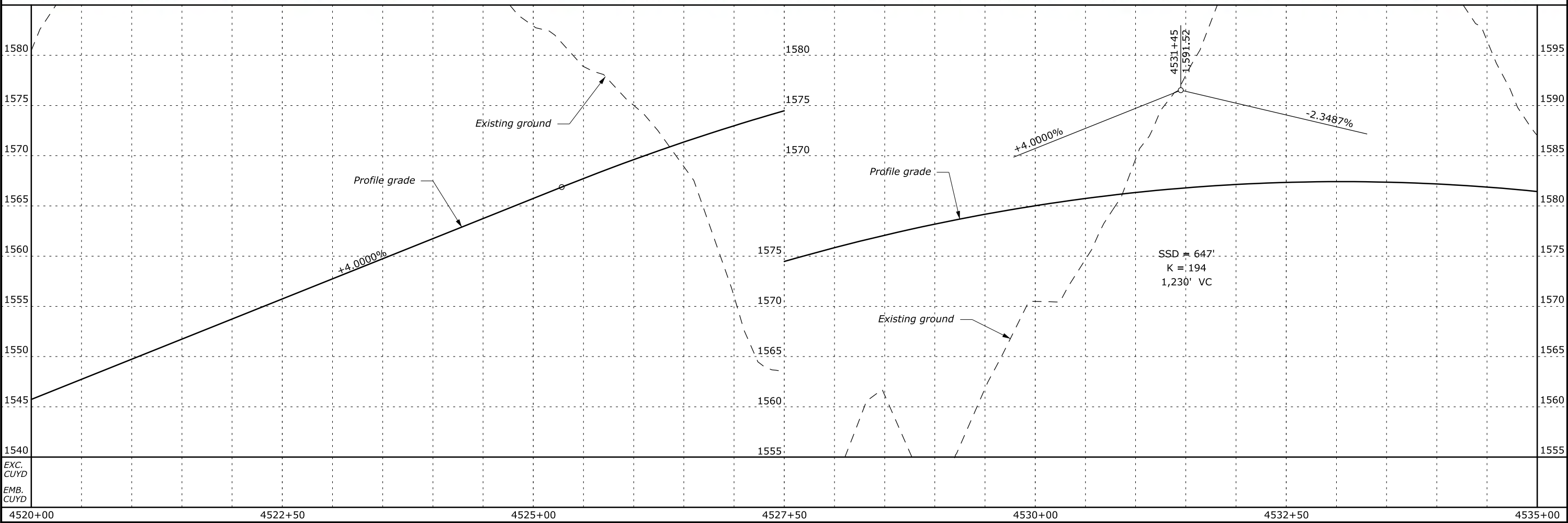
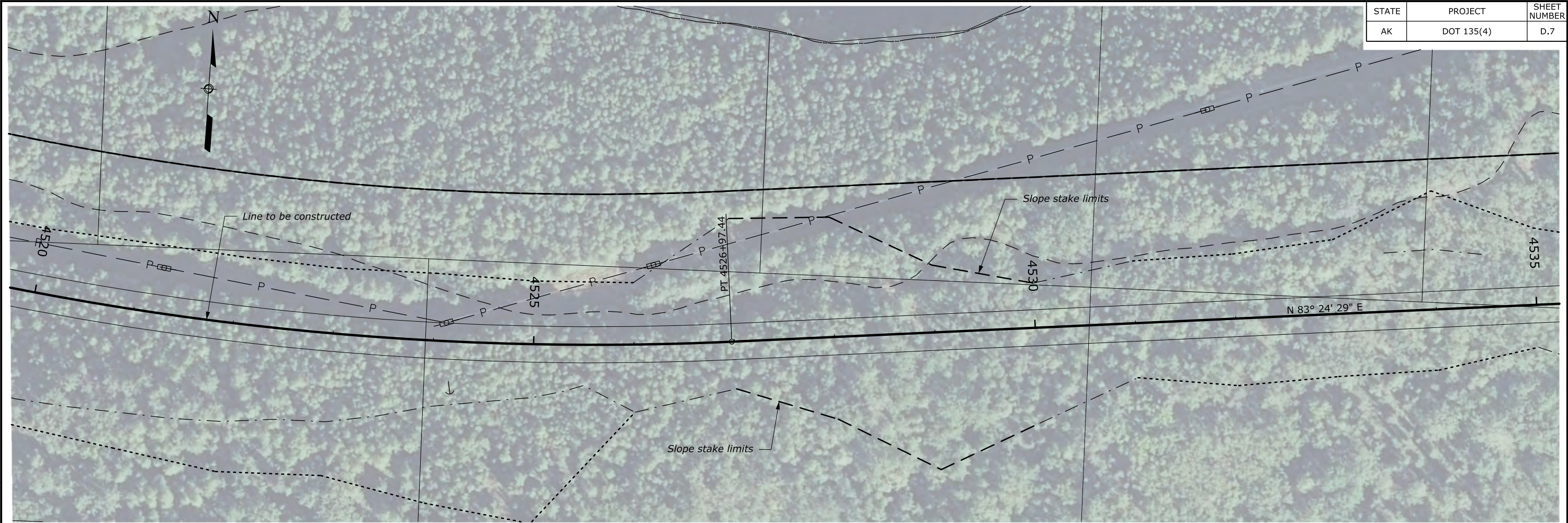


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AK	DOT 135(4)	D.6



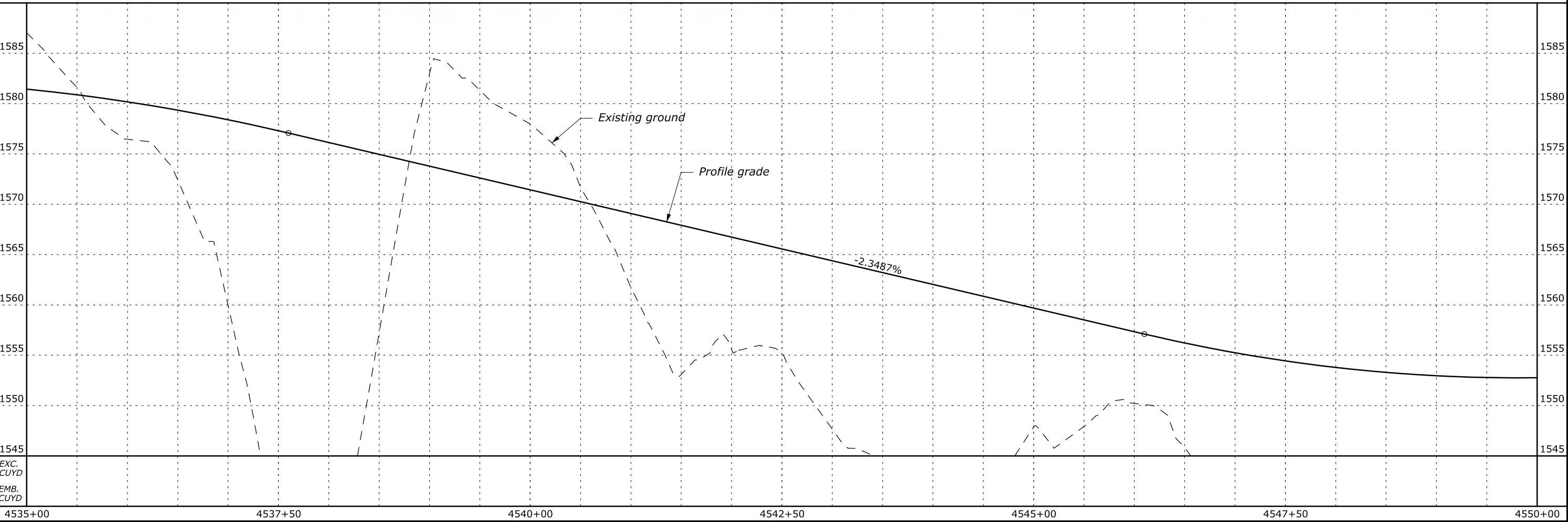
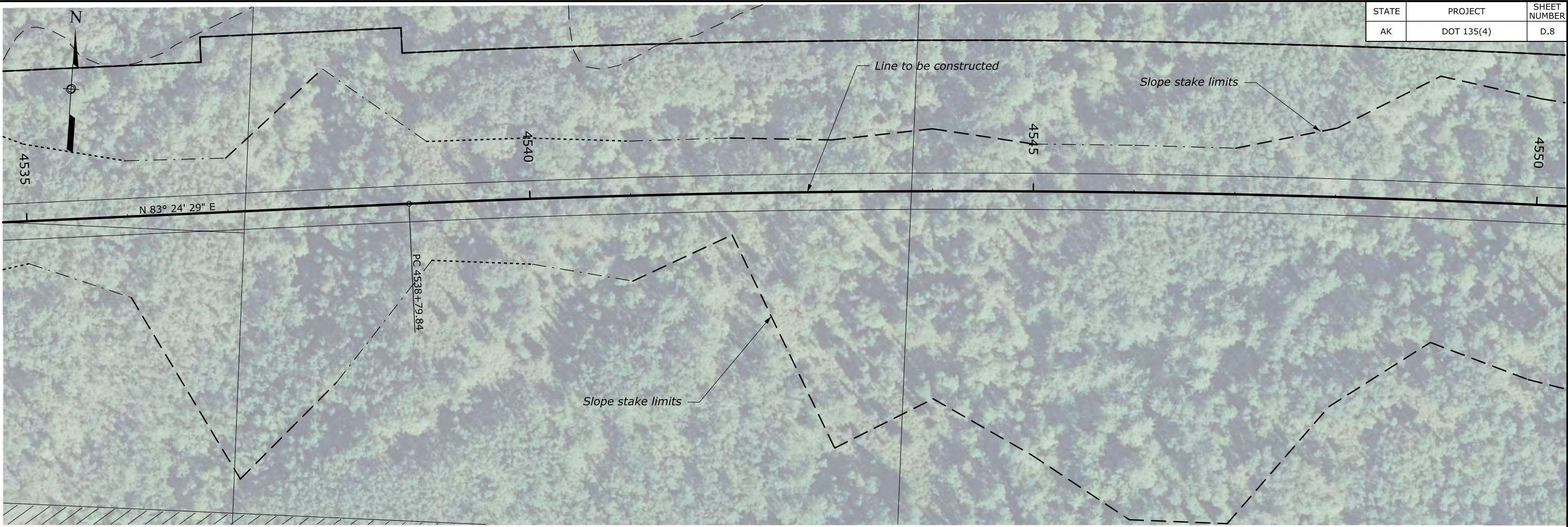
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STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.7



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STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.8



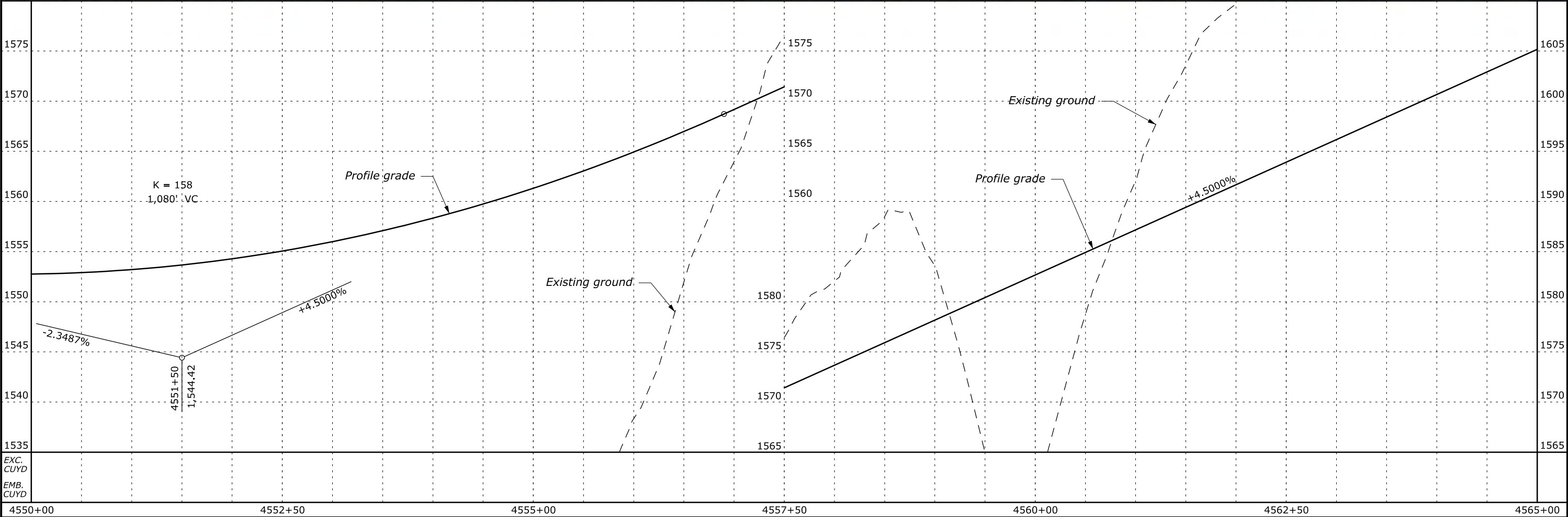
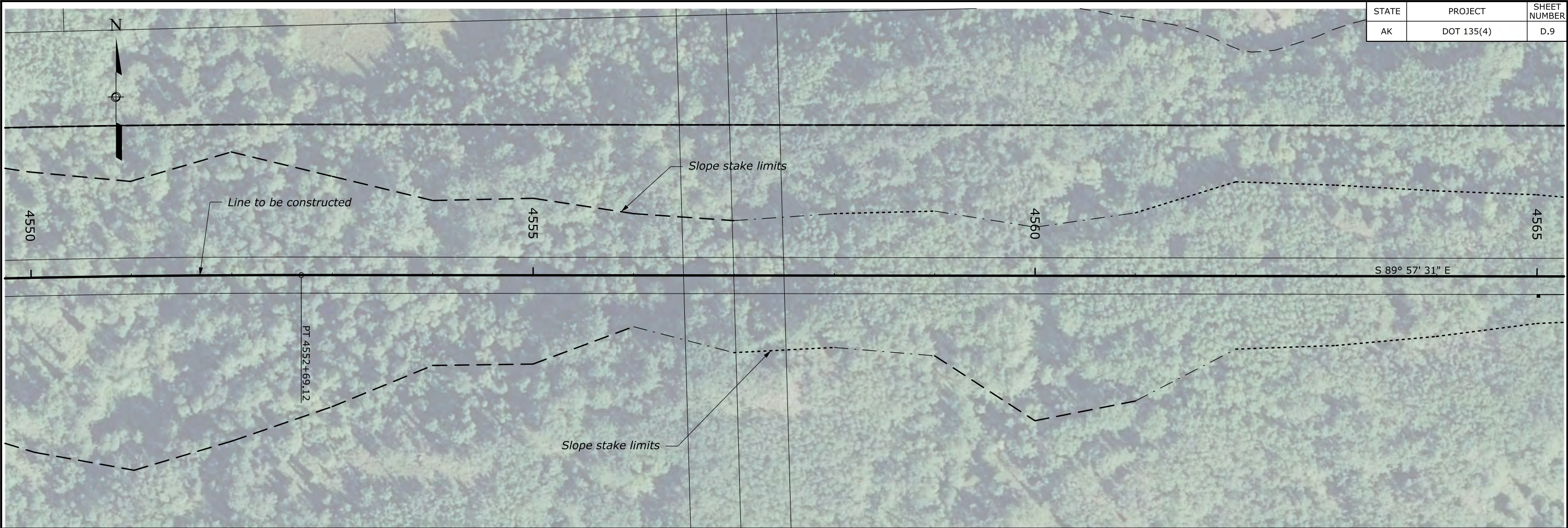
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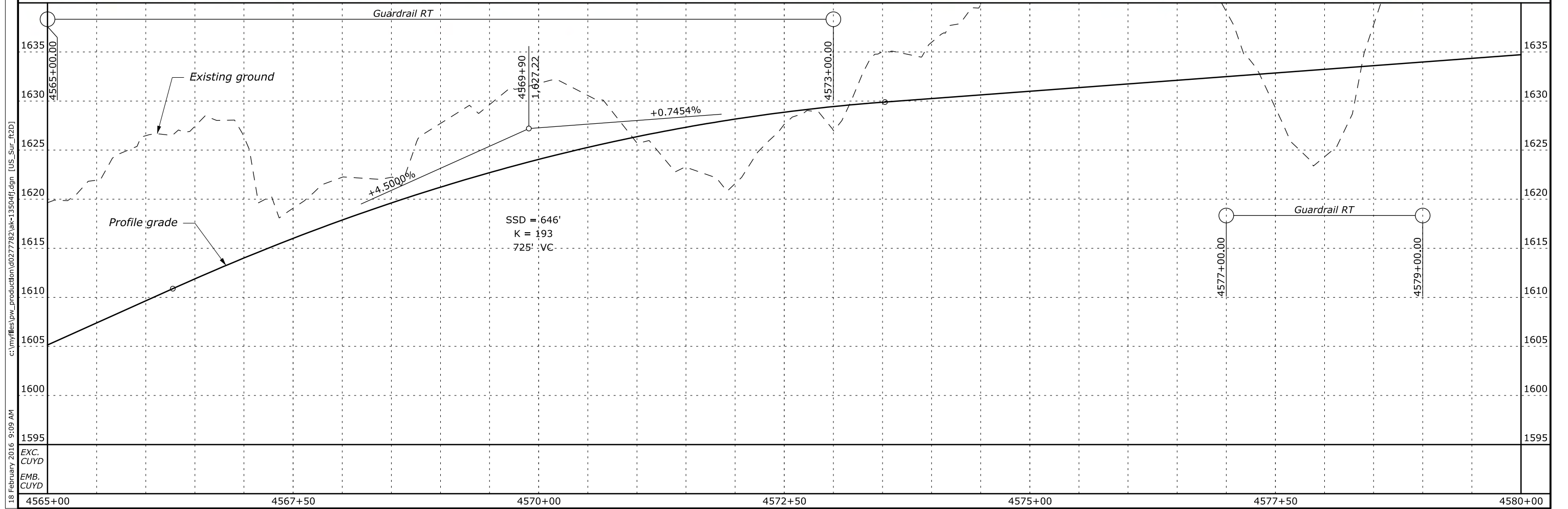
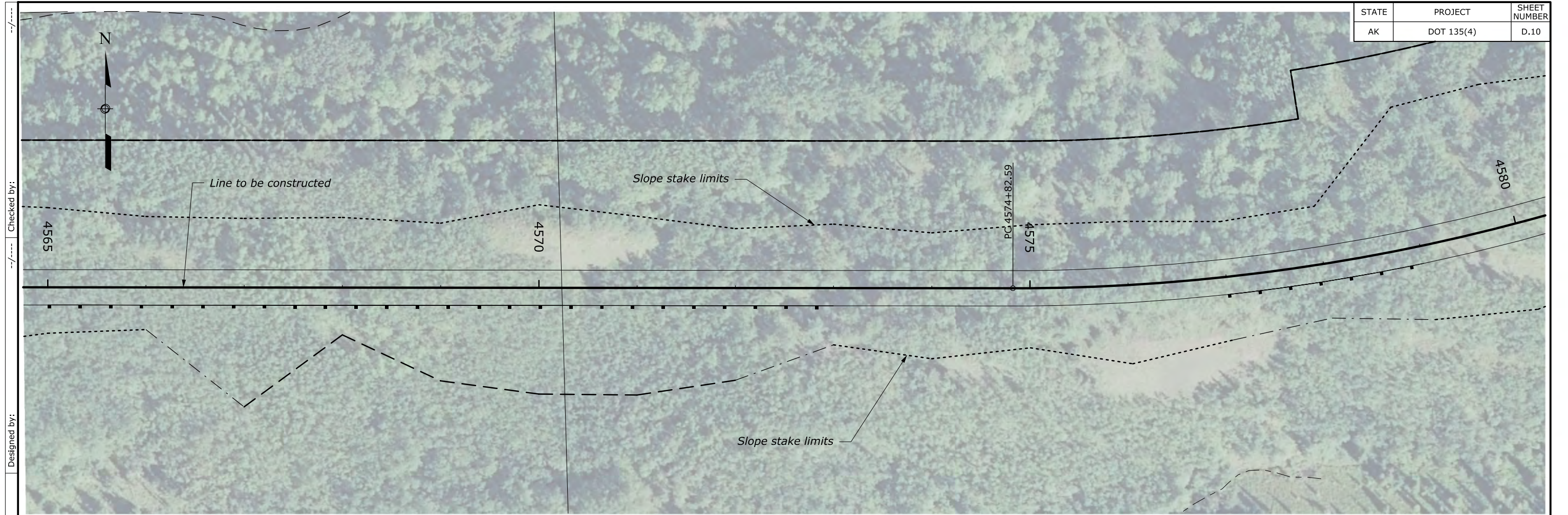
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STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.9

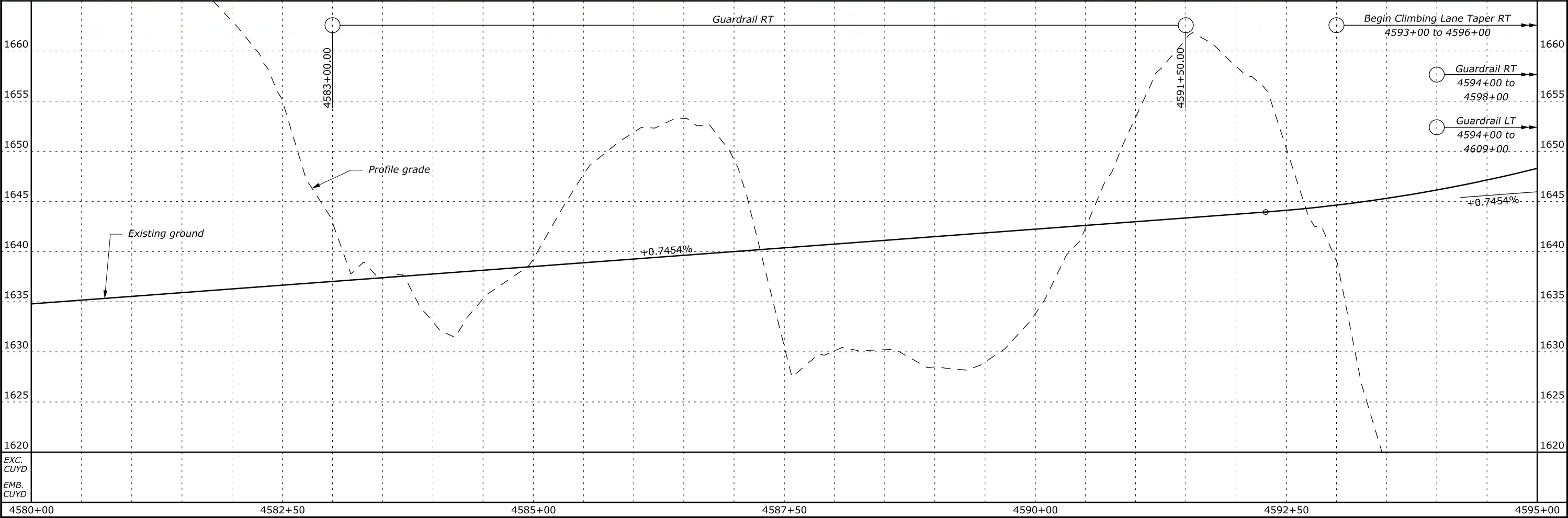


STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.10



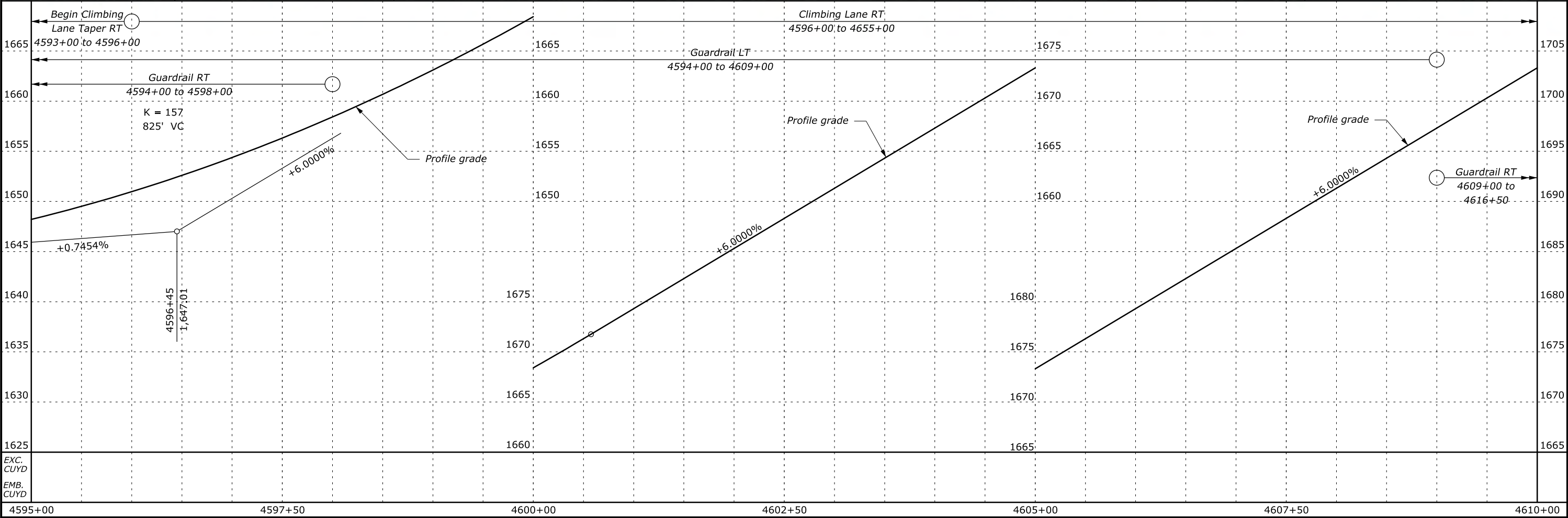
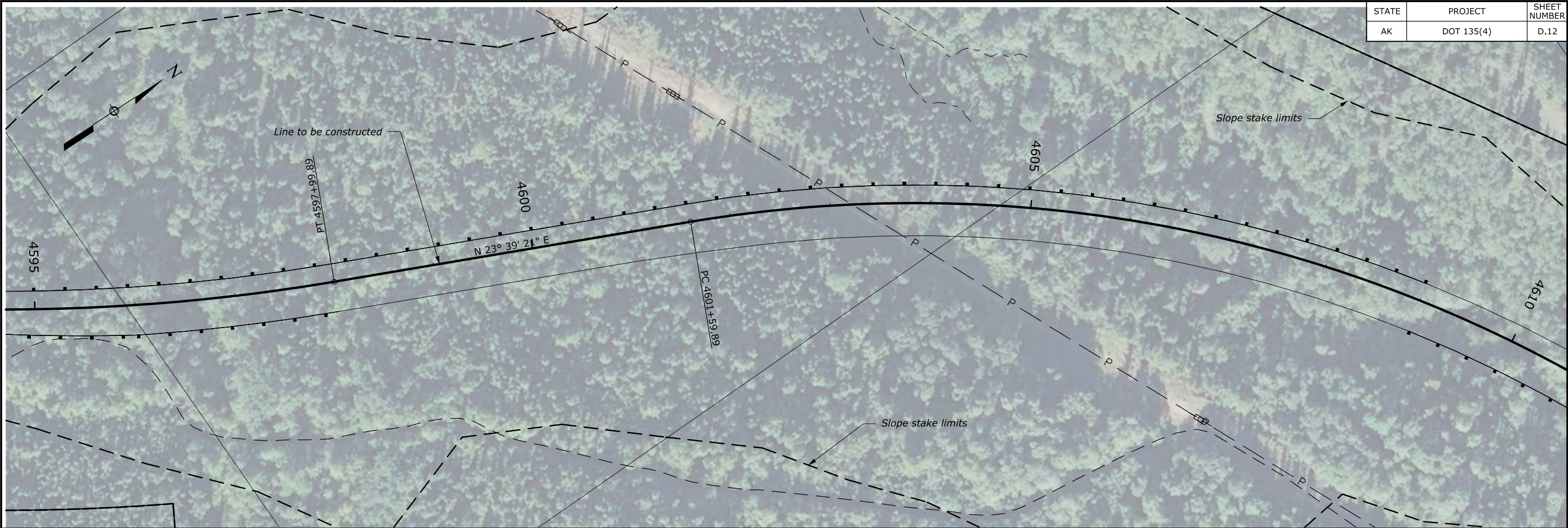
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STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.11

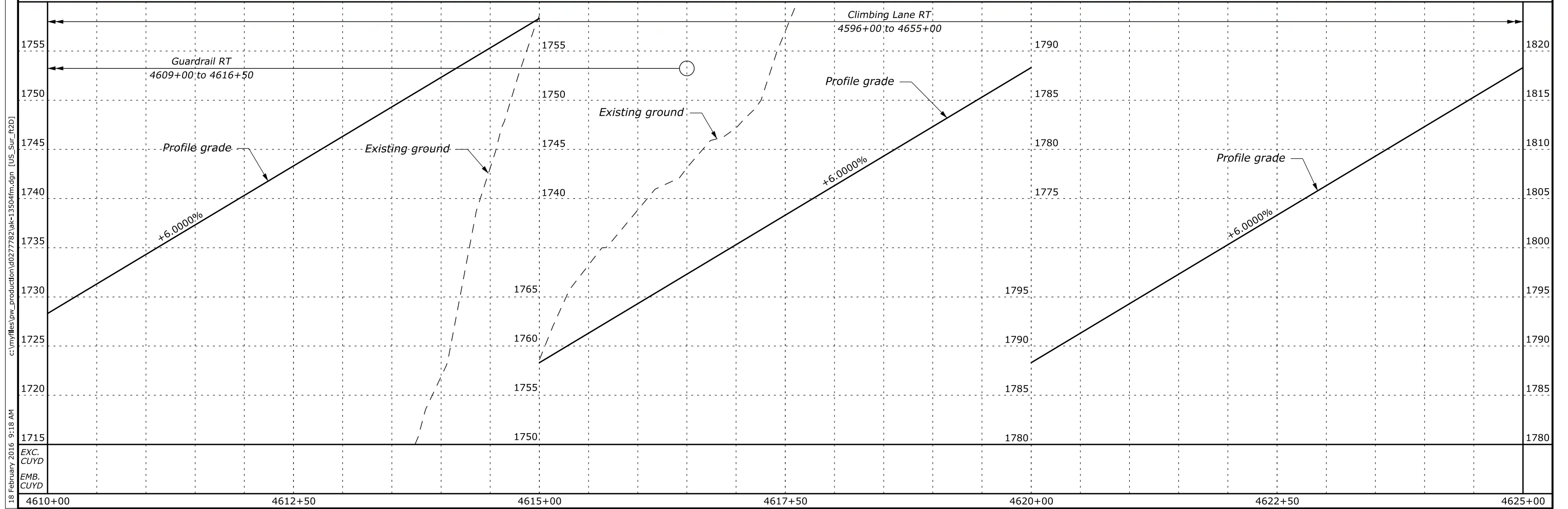
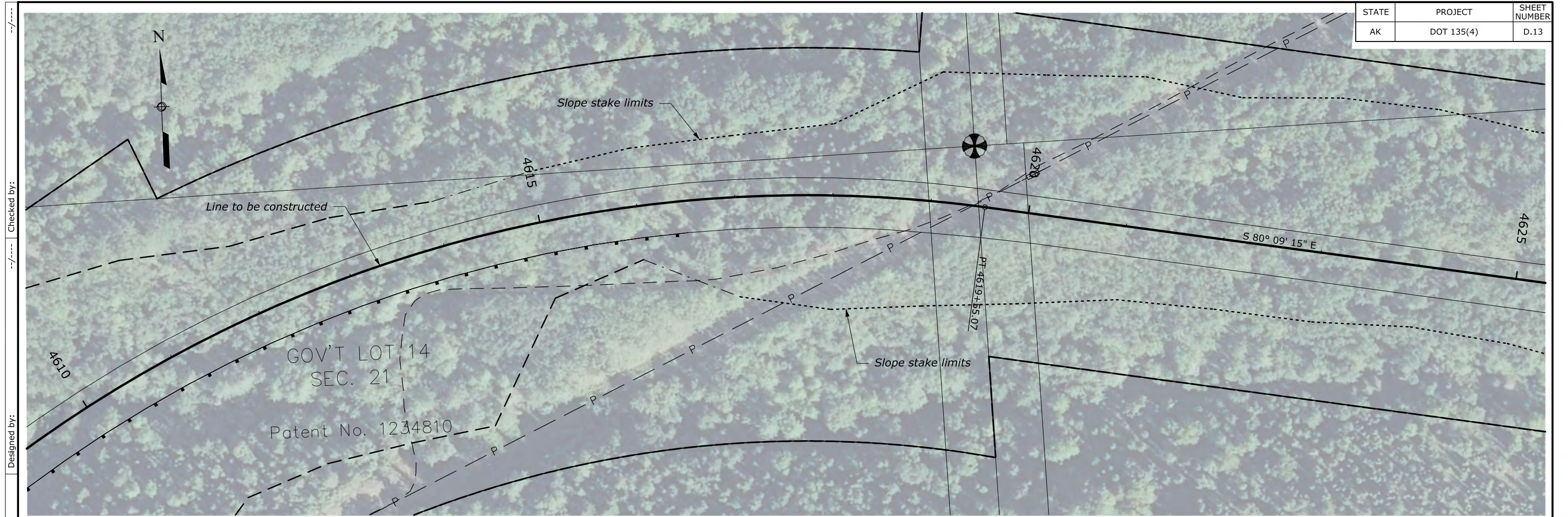


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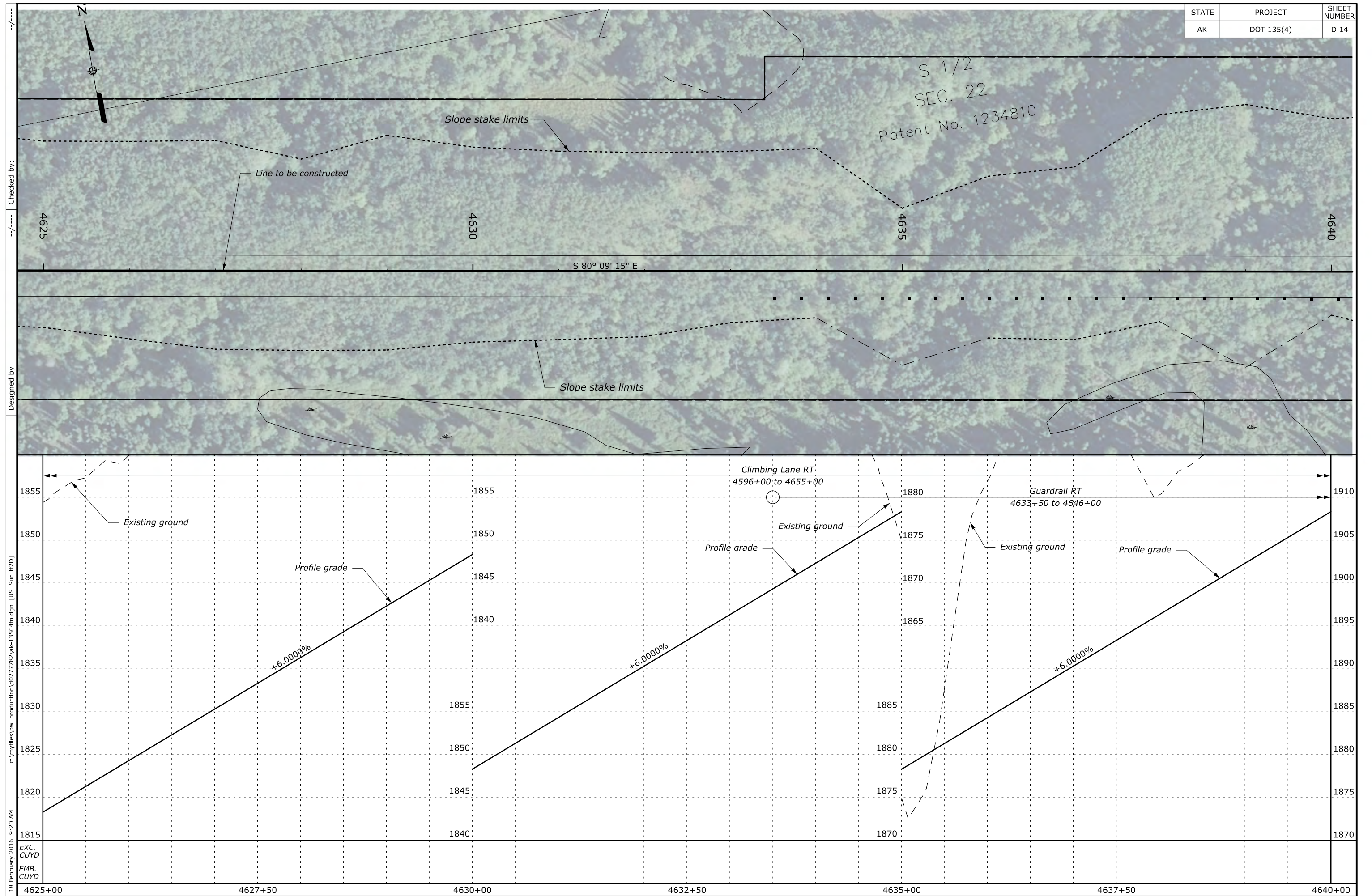
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STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.13

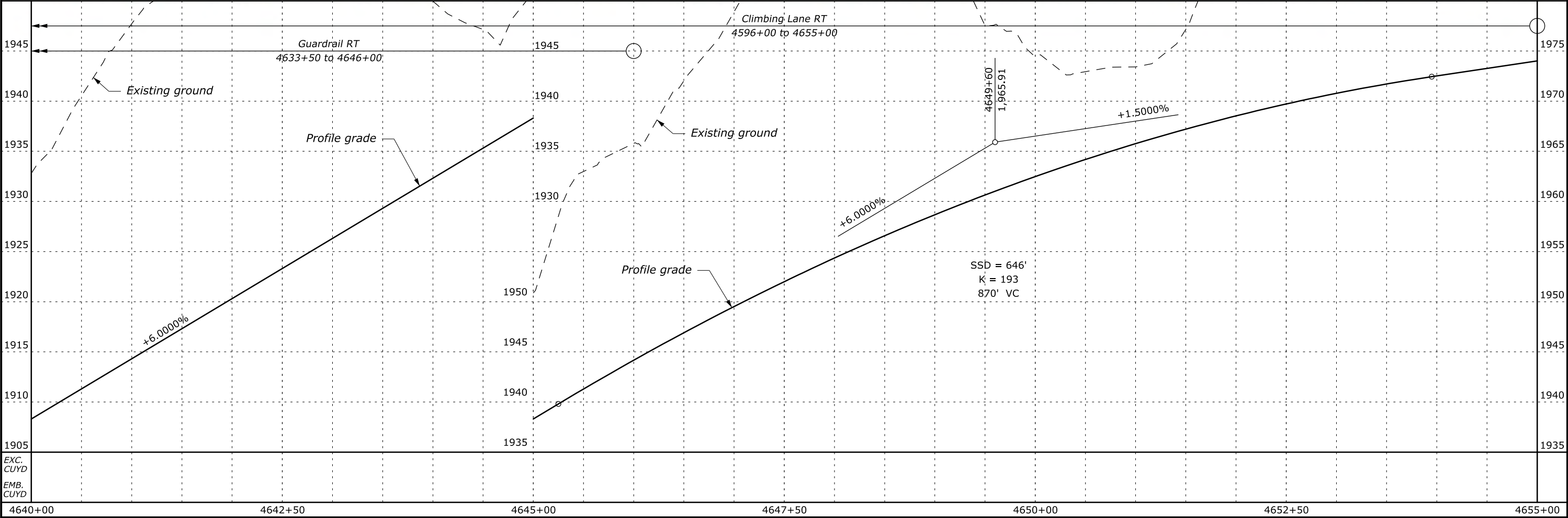
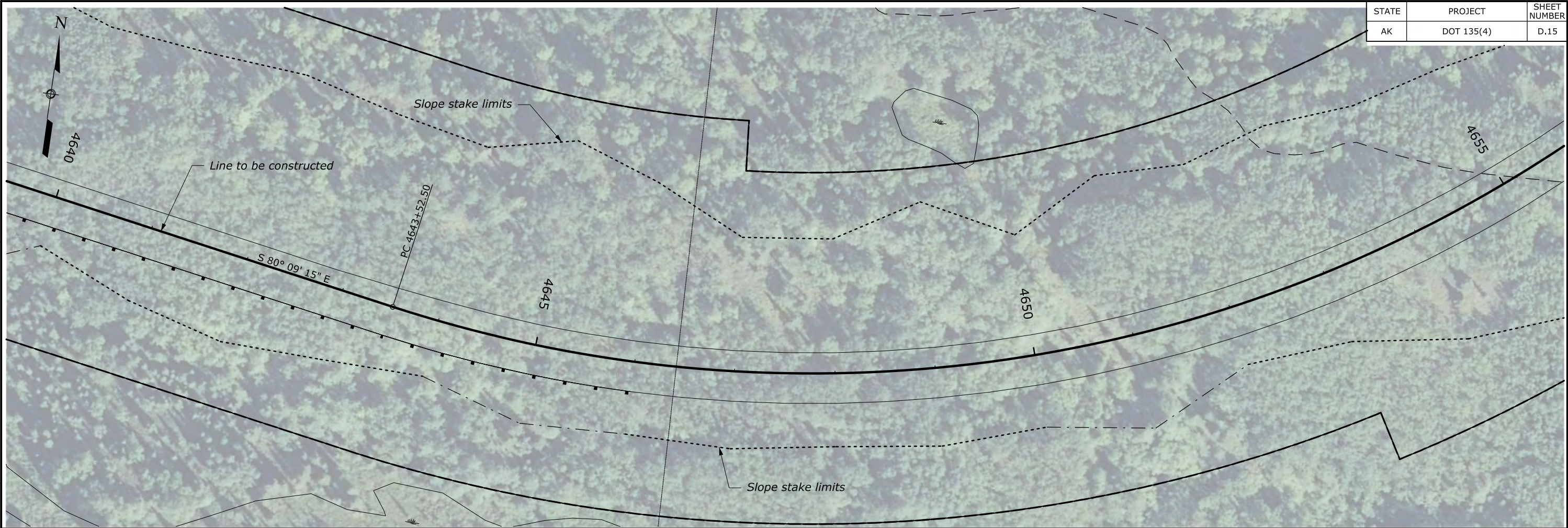


STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.14



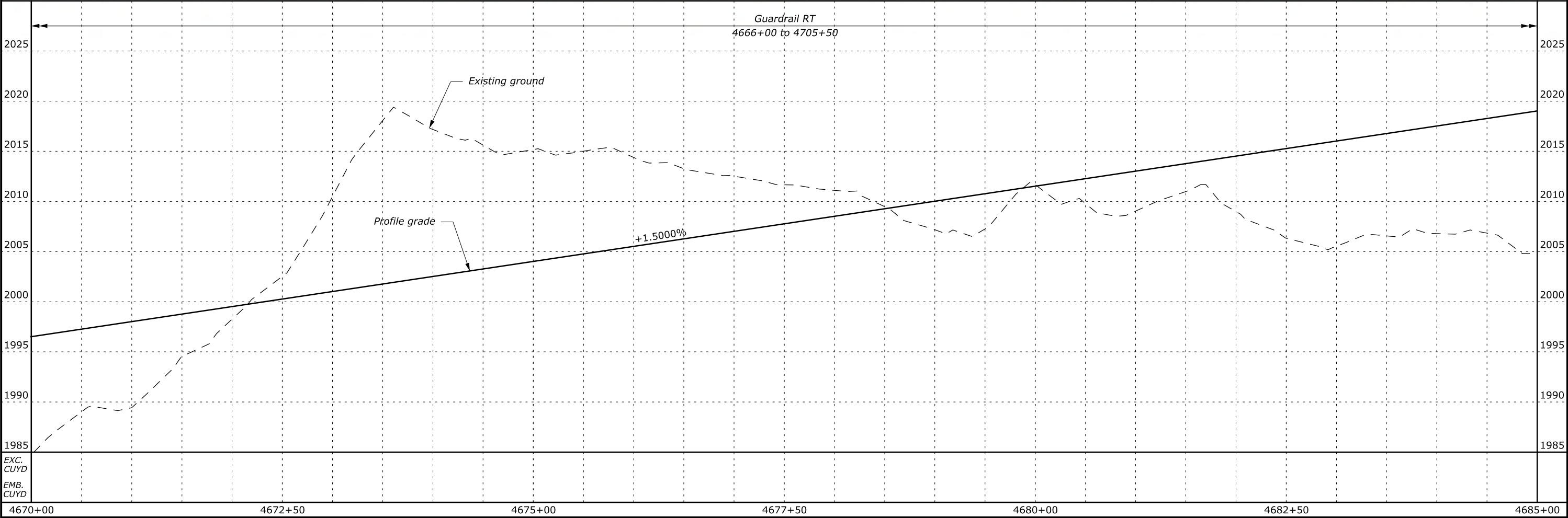
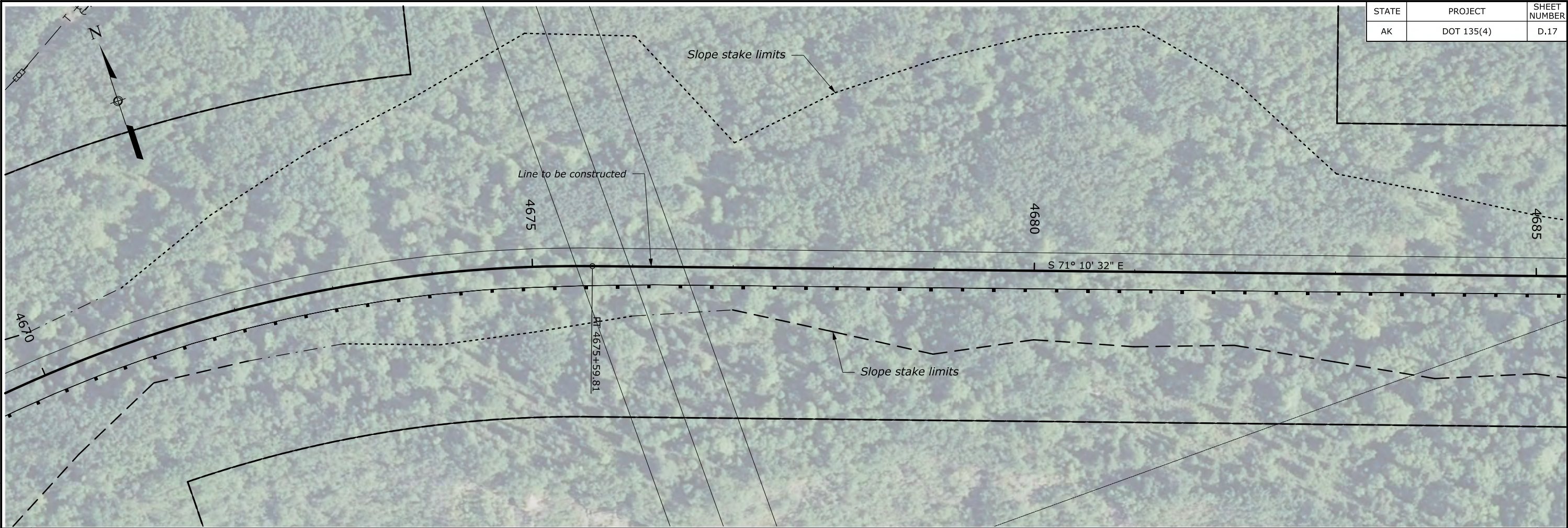
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Checked by: Designed by:



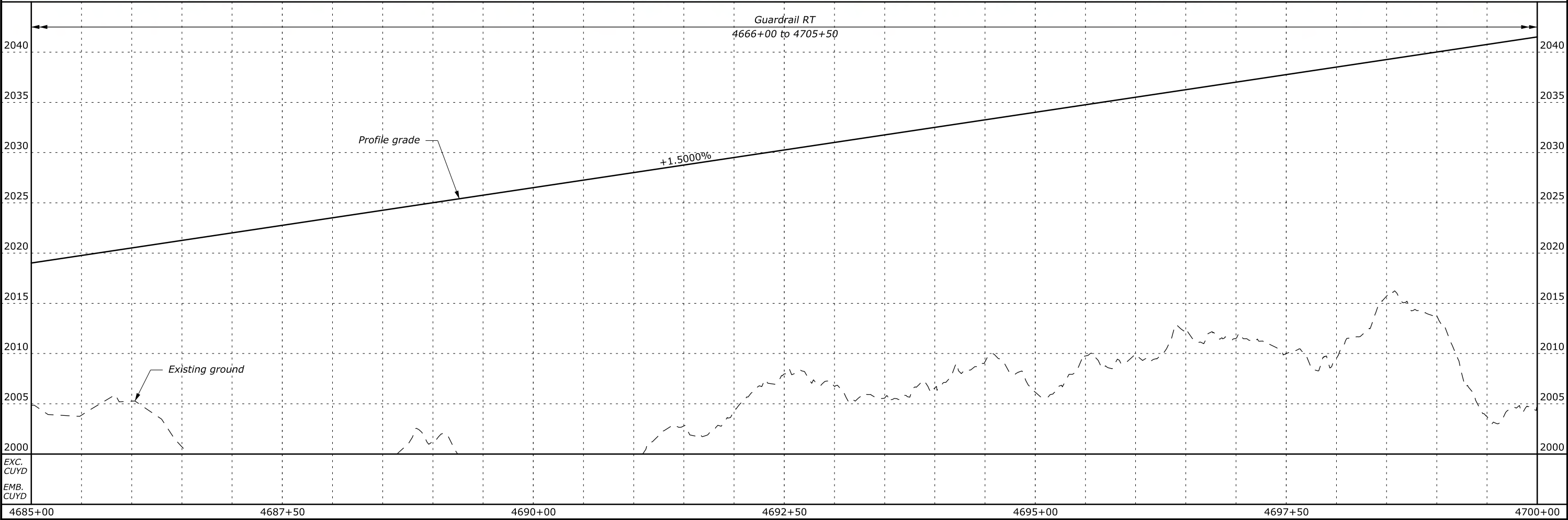
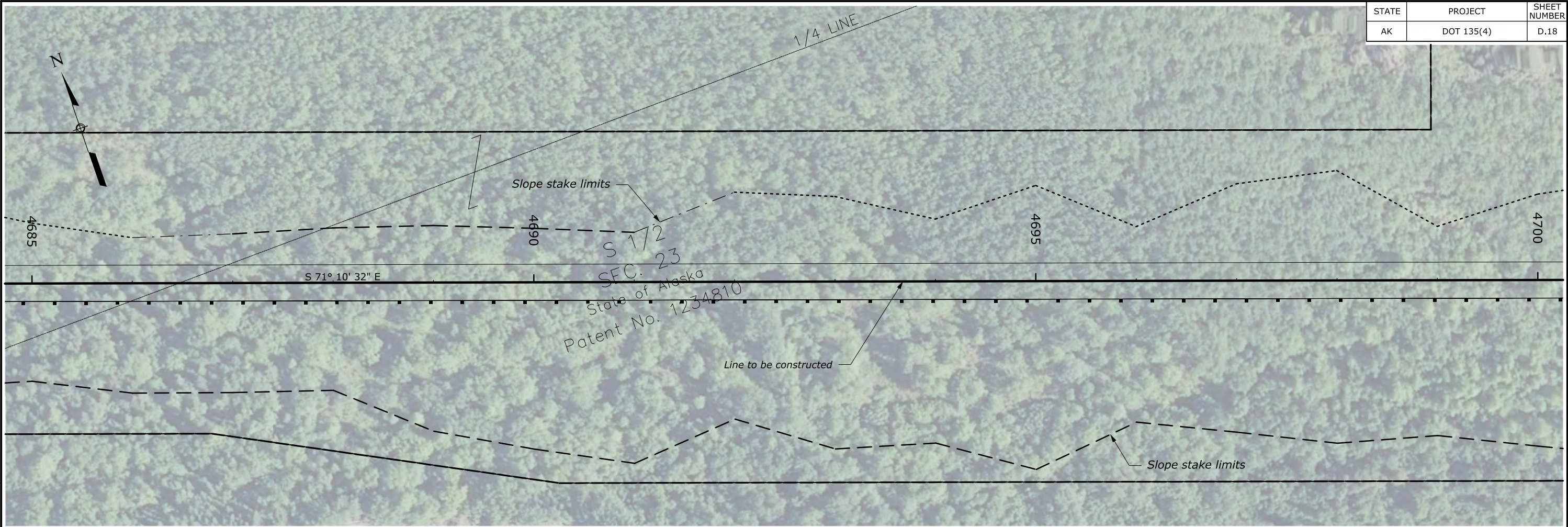
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Checked by:
Designed by:

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.17



18 February 2016 9:36 AM
c:\myfiles\pw_production\00277782\ak-13504fr.dgn [US_Sur_ft2D]
Checked by:
Designed by:

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.18



Checked by:

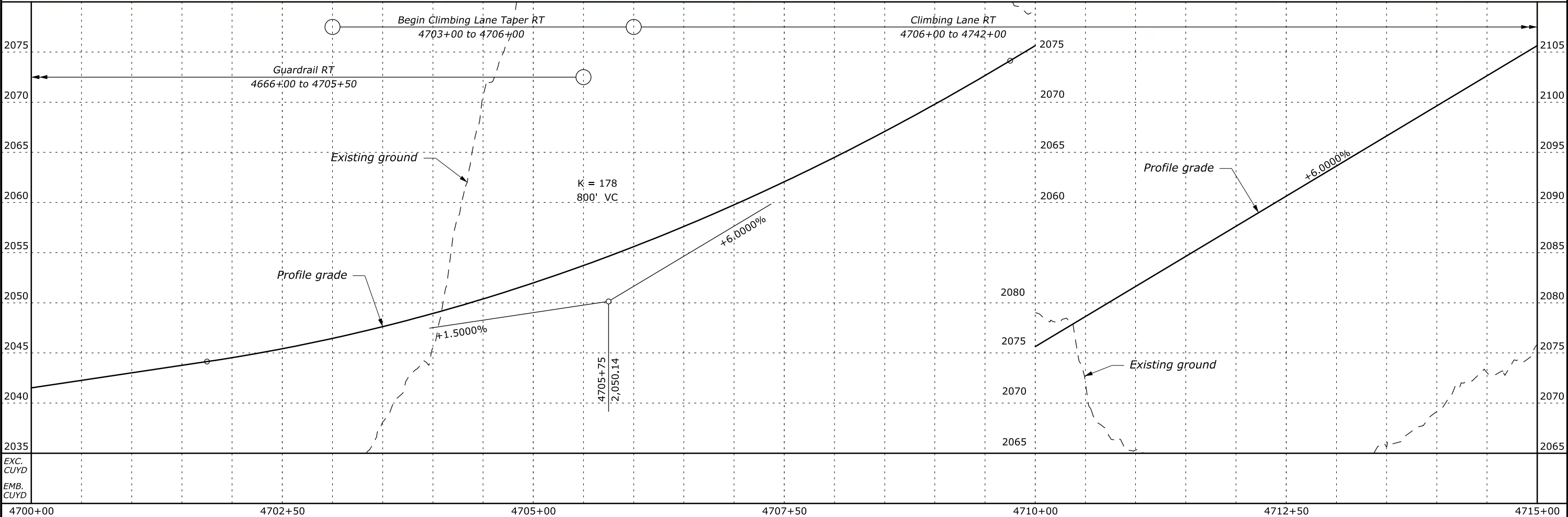
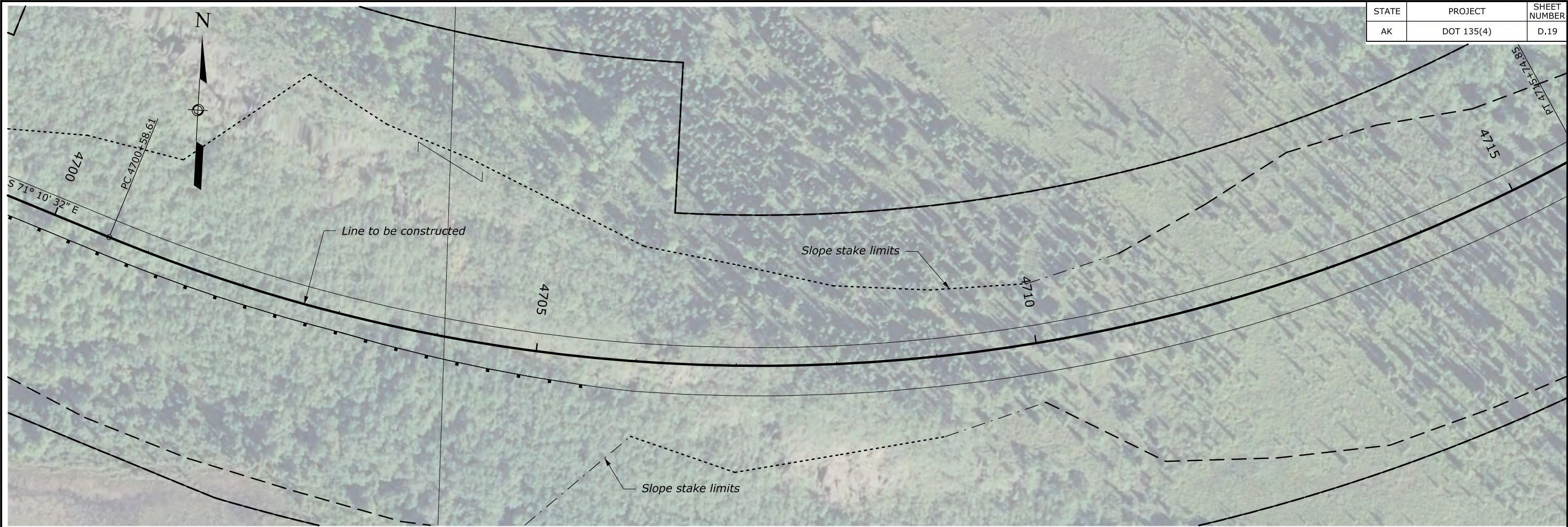
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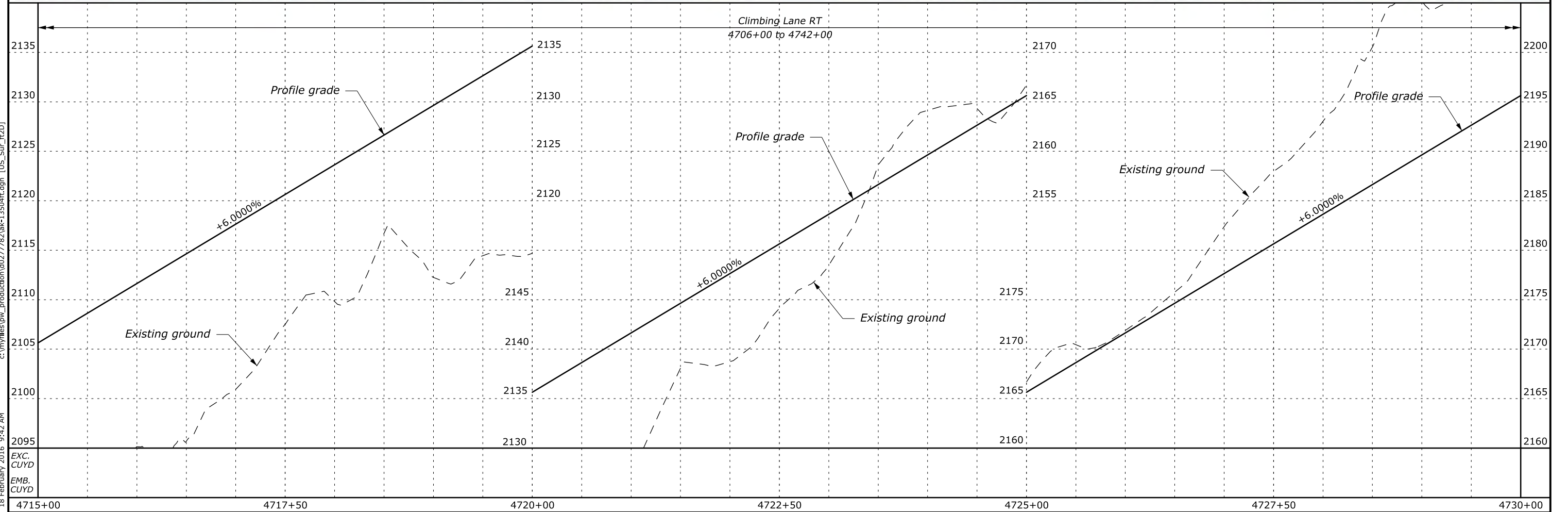
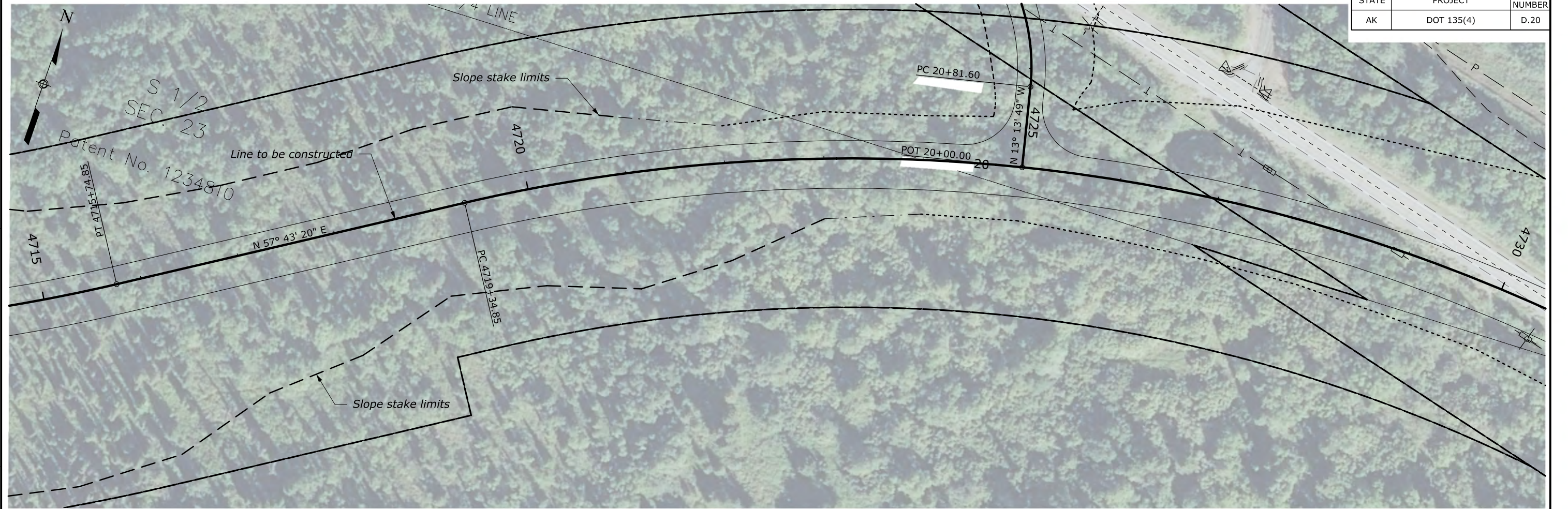
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18 February 2016 9:38 AM
EXC.
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CUYD

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.19

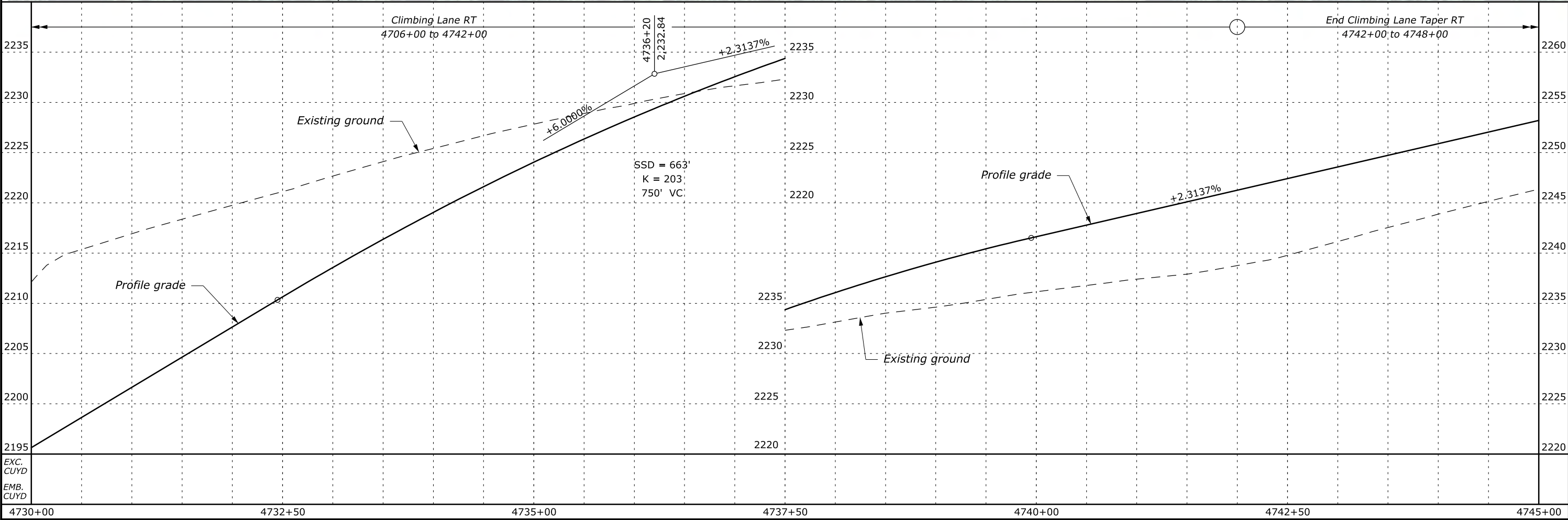
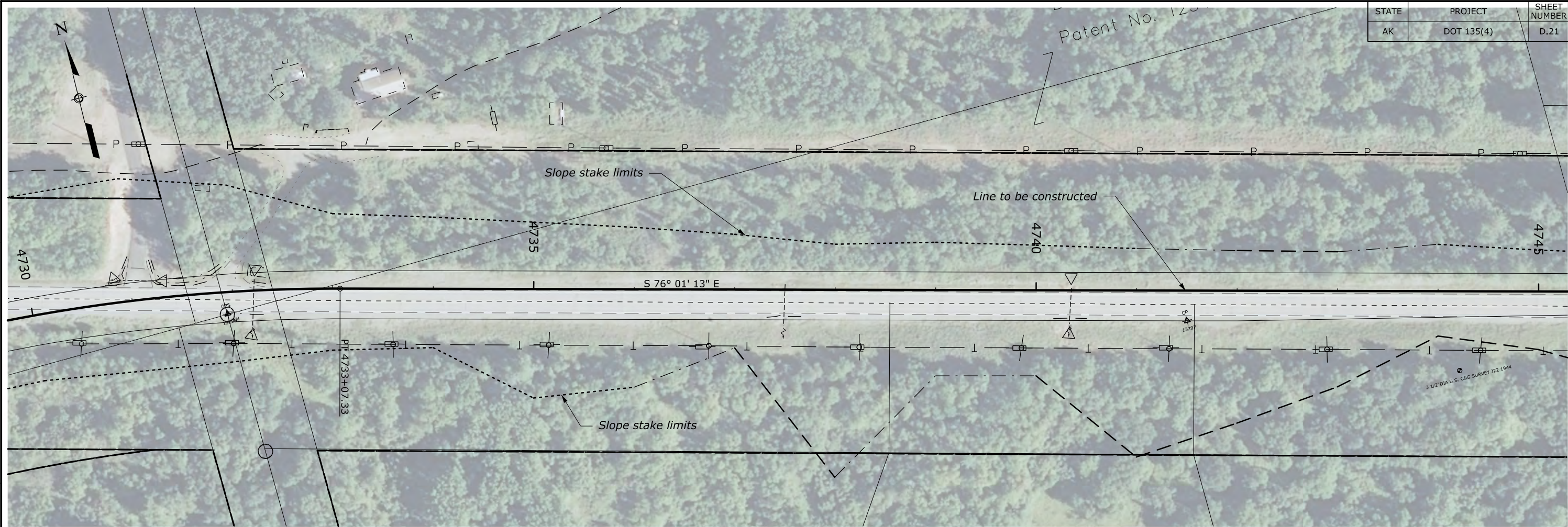


STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.20



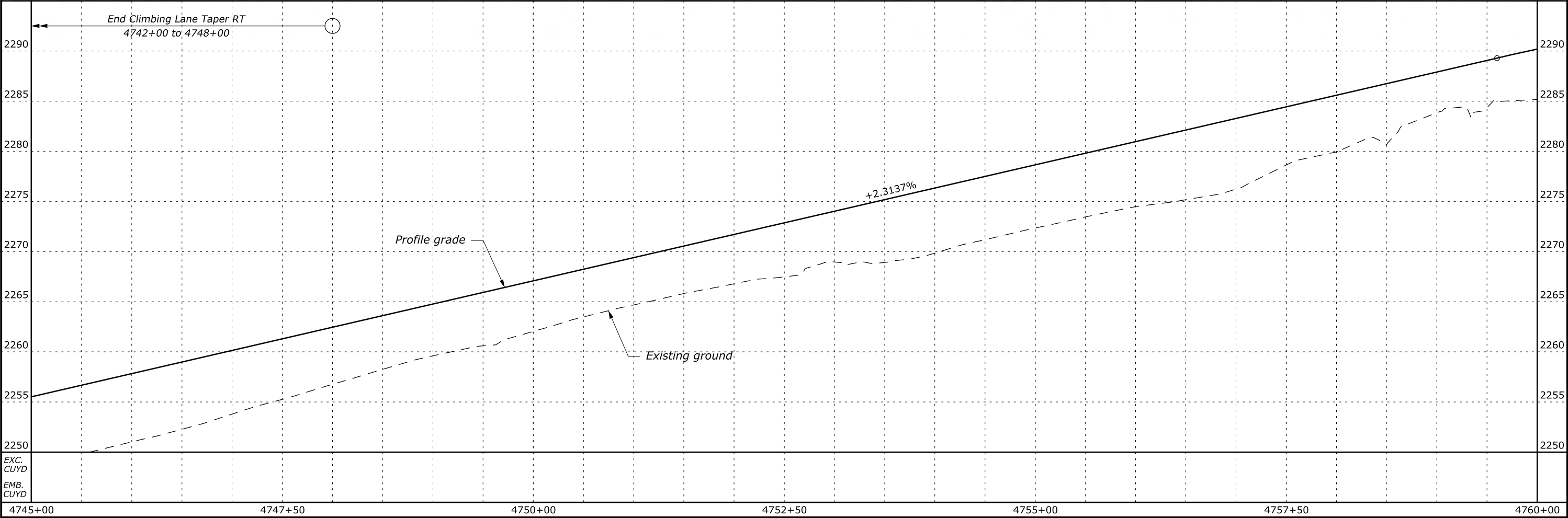
18 February 2016 9:45 AM
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Checked by:
Designed by:

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.21



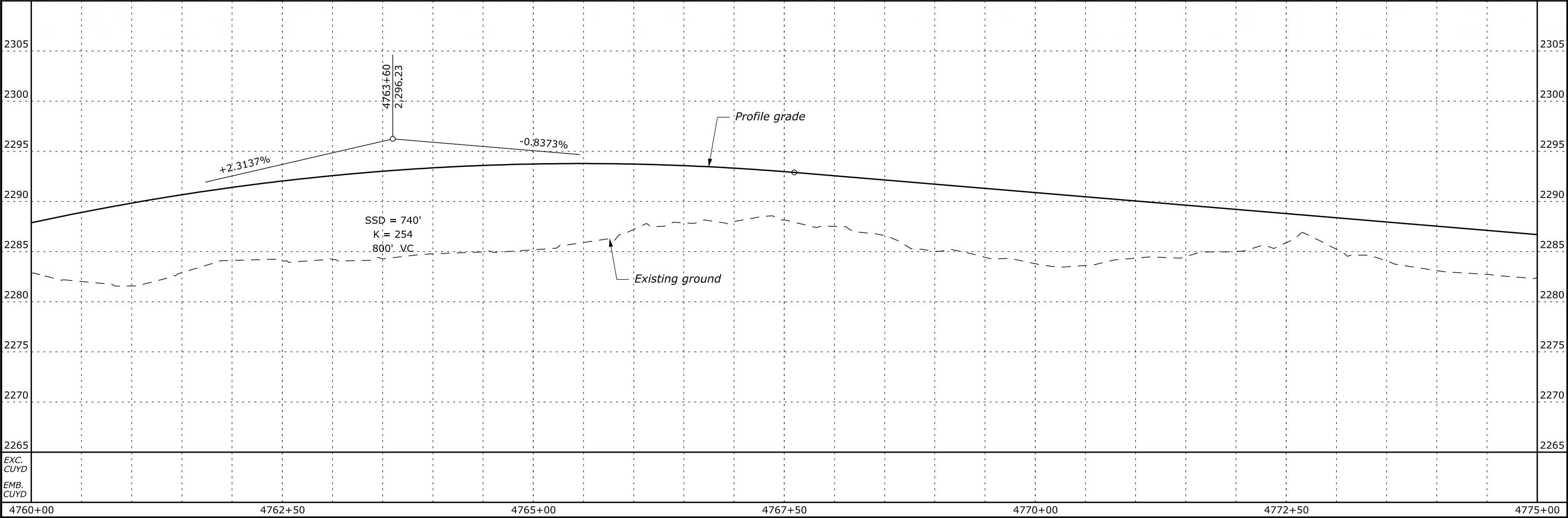
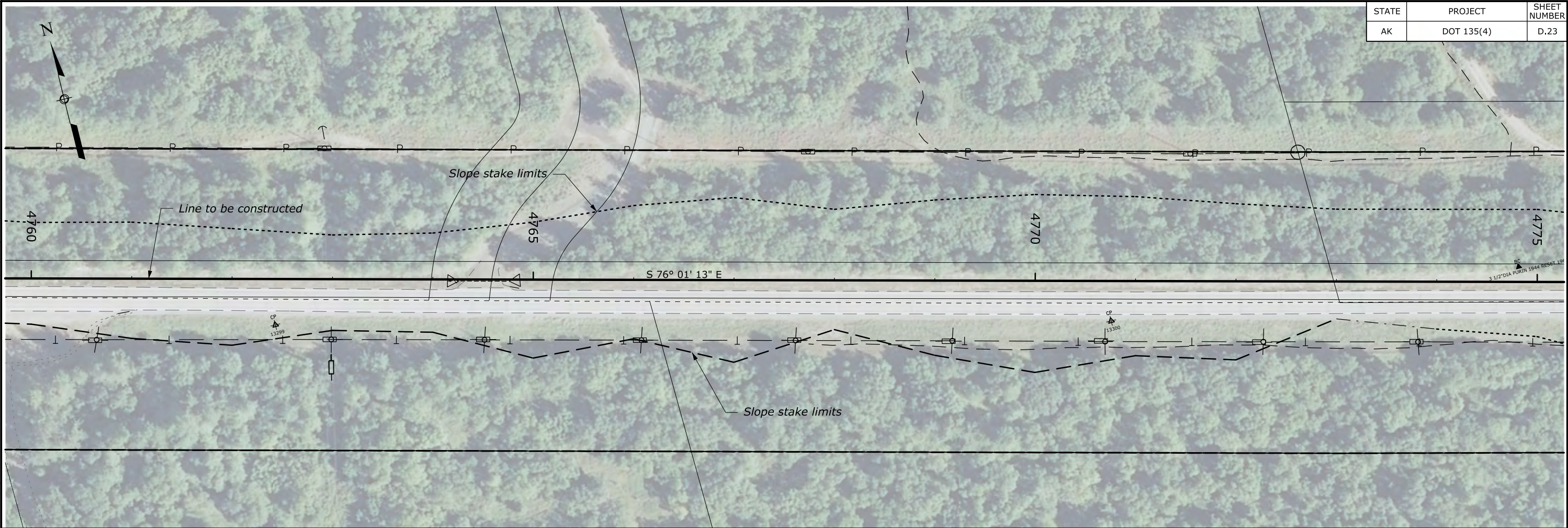
18 February 2016 9:48 AM
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Designed by:
Checked by:

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.22



18 February 2016 9:55 AM
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Designed by:
Checked by:

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.23



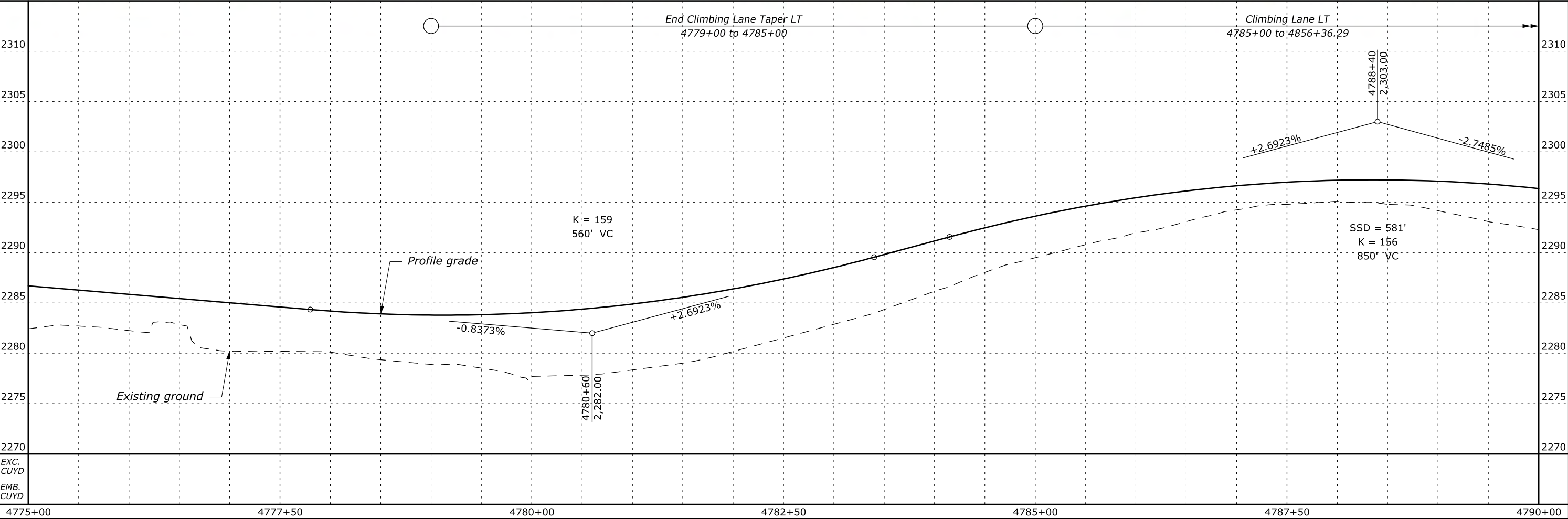
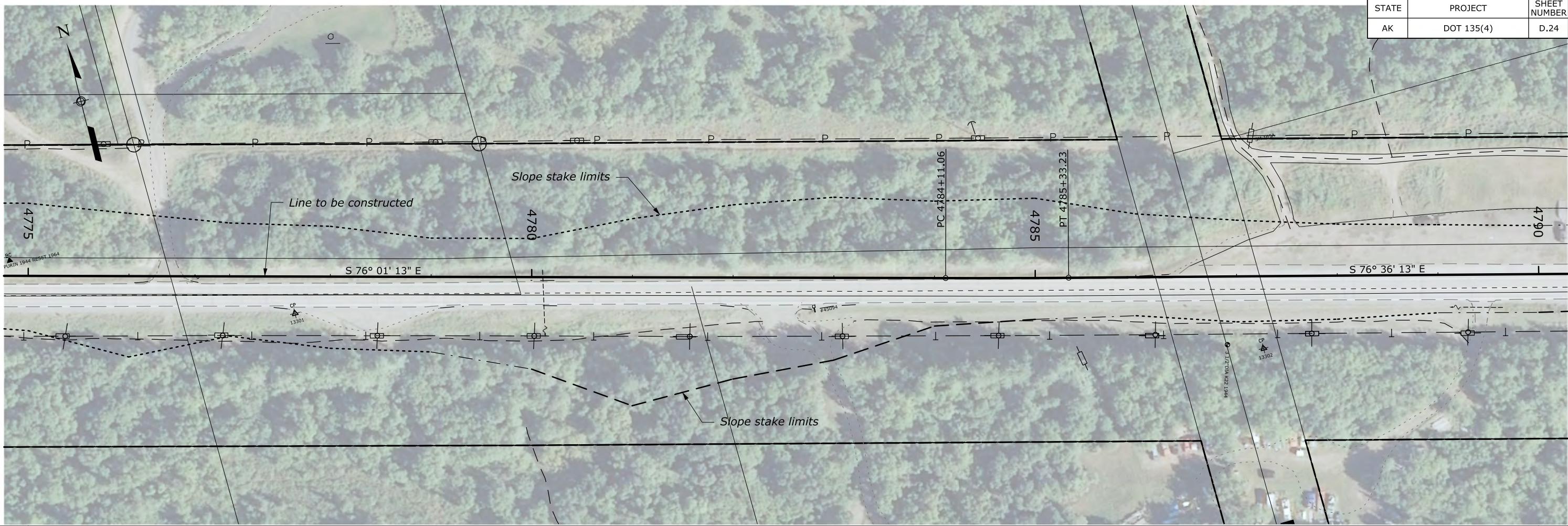
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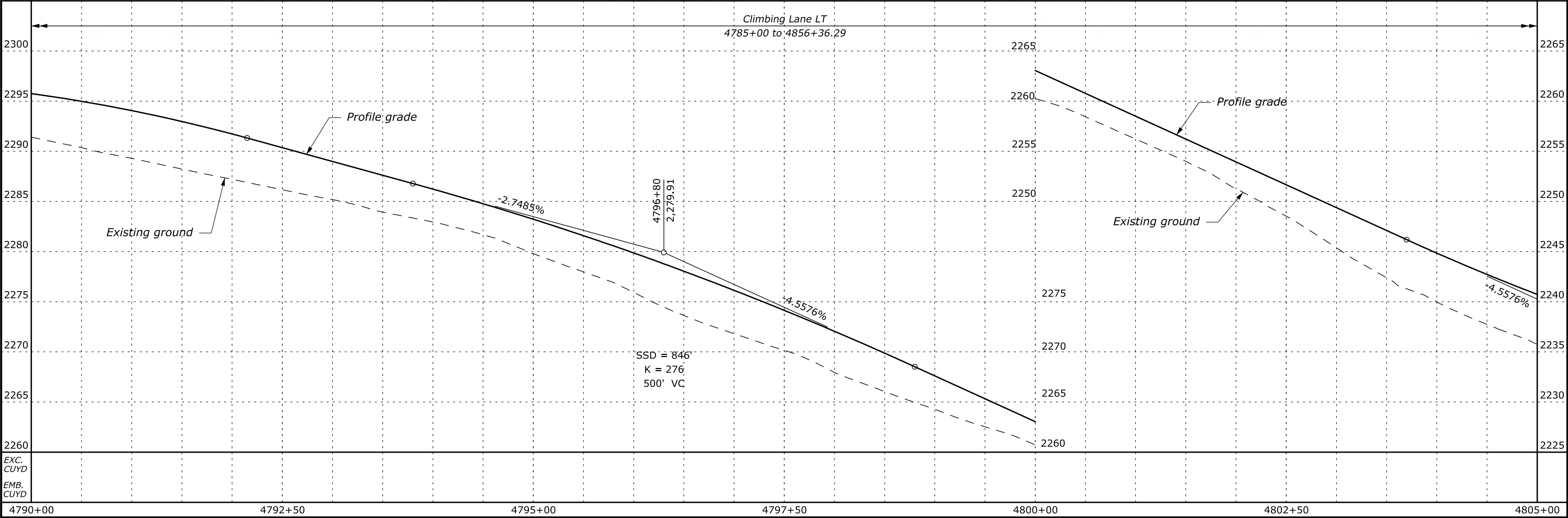
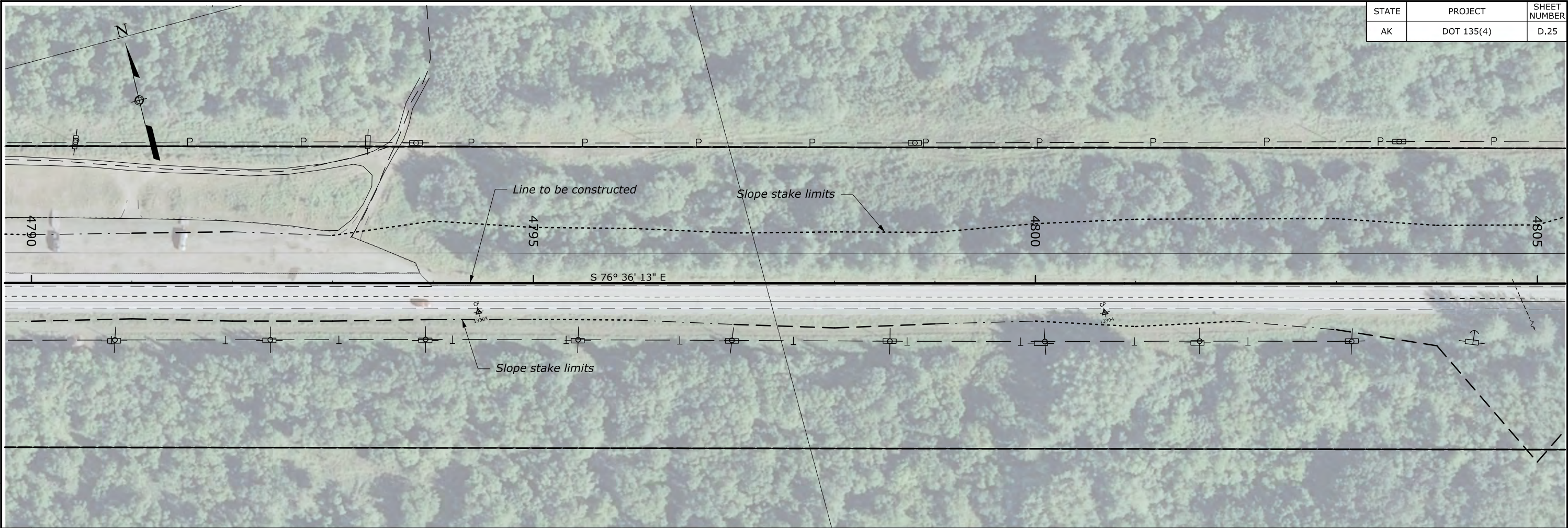
18 February 2016 9:53 AM
EXC.
CUYD
EMB.
CUYD

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.24



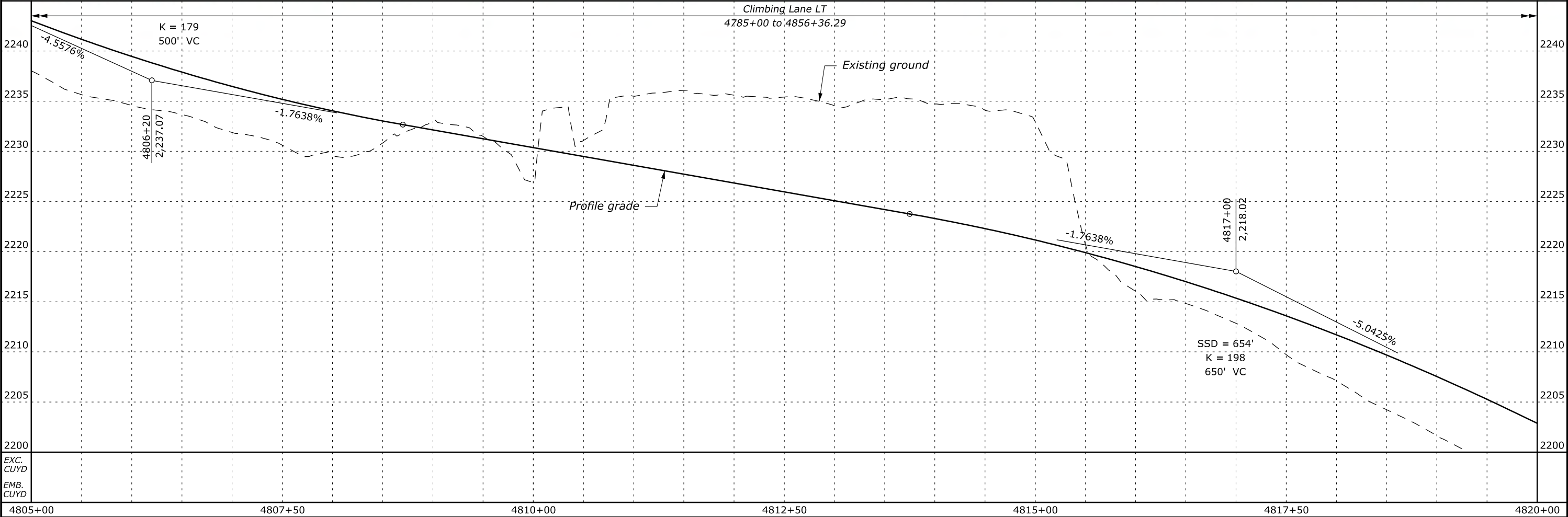
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Designed by:
Checked by:

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.25



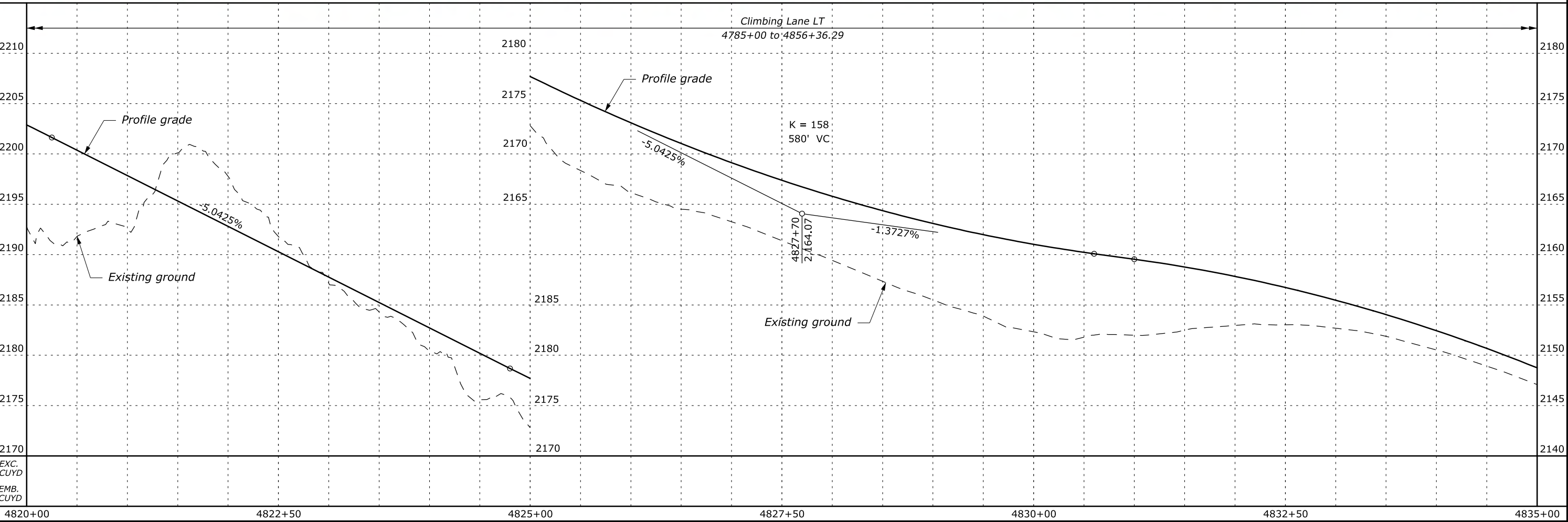
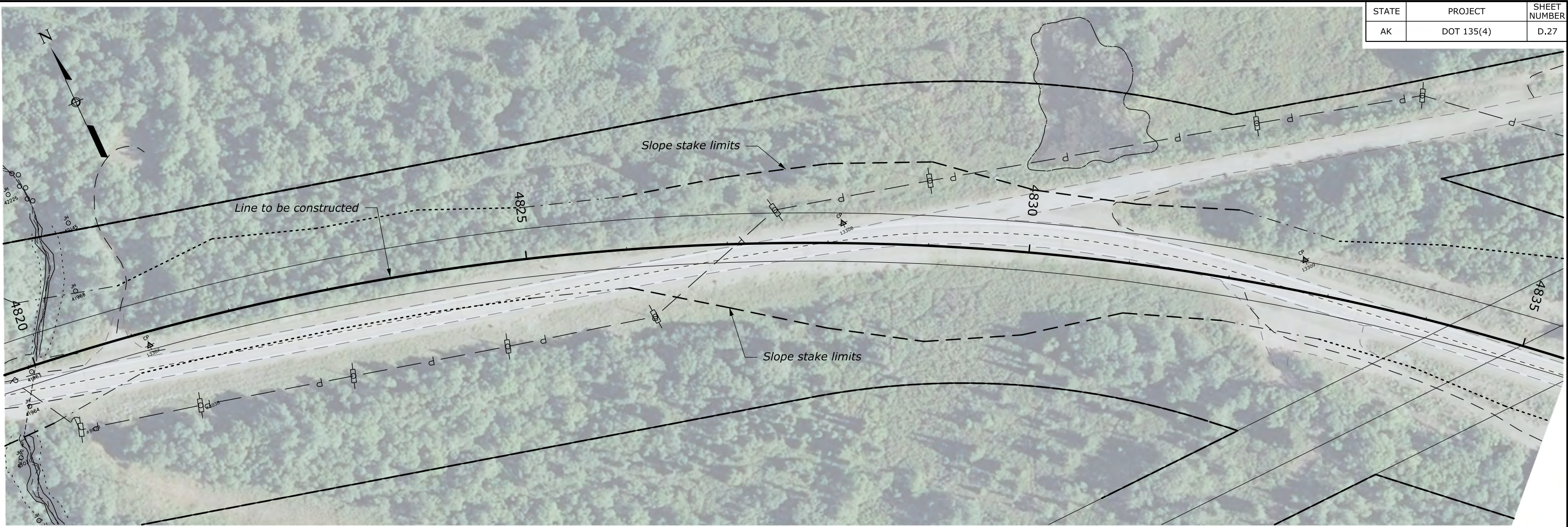
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Checked by:
Designed by:

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.26

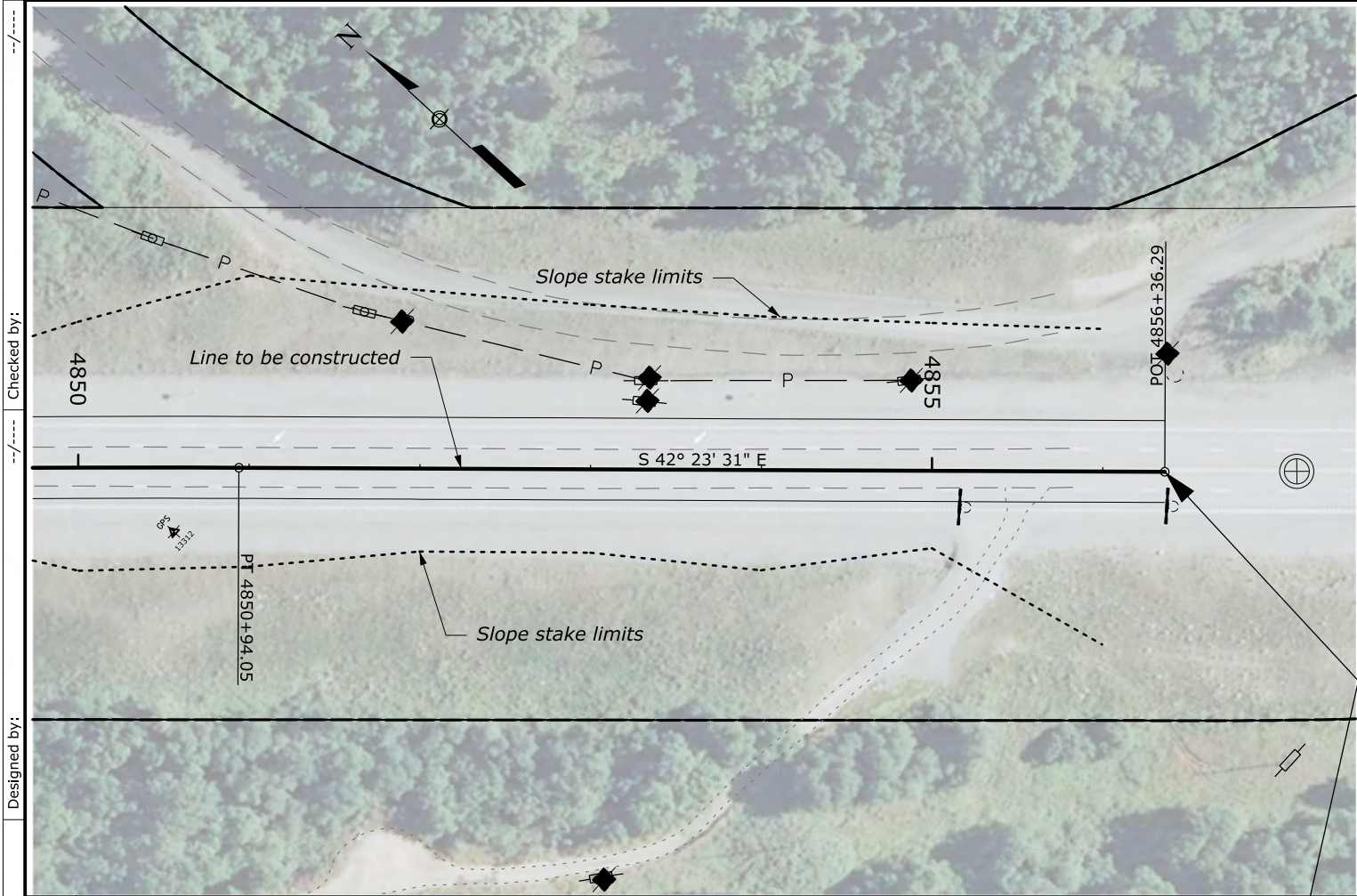


18 February 2016 10:03 AM
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Designed by:
Checked by:

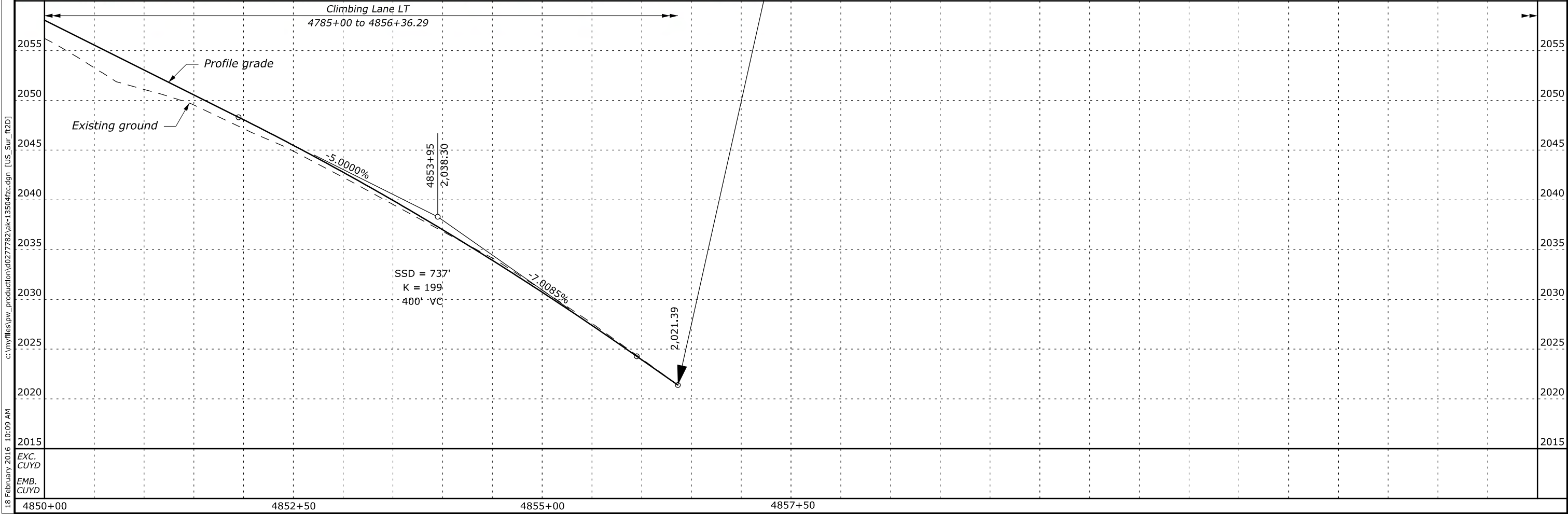
STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.27



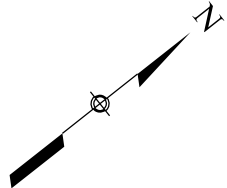
STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	D.29



END PROJECT
GLENN HIGHWAY
LONG LAKE MP 84 - 92
4856+36.29
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E=201177.81
El=2021.39



STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	E.2



BEGIN PROJECT

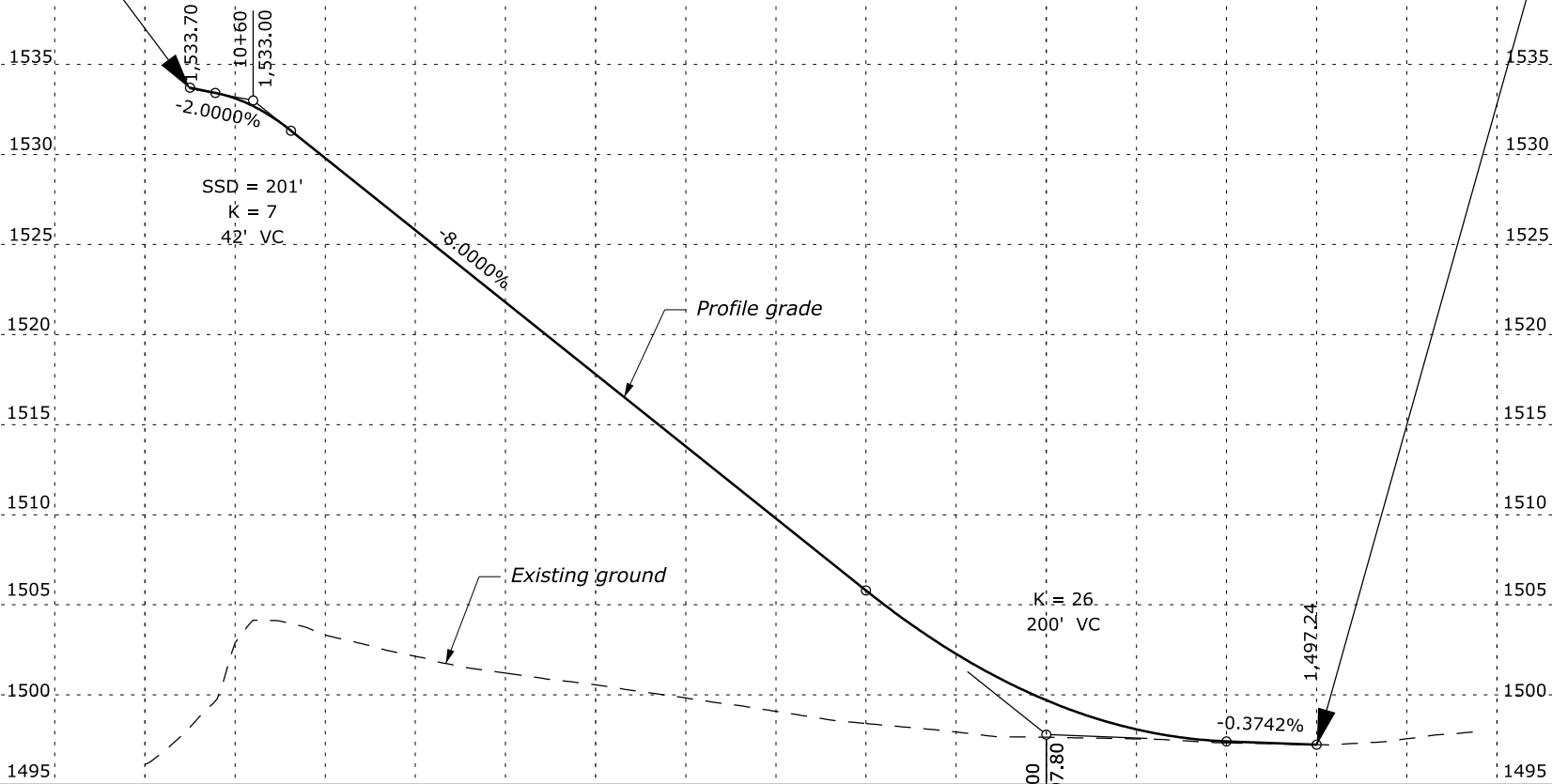
GLENN HIGHWAY
LONG LAKE MP 84 - 92
APPROACH ROAD A
10+00.00

N=230356.02
E=206162.14
El=1533.70

END PROJECT

GLENN HIGHWAY
LONG LAKE MP 84 - 92
APPROACH ROAD A
16+50

N=230956.52
E=206567.69
El=1497.24



10+00

12+50

15+00

17+50

EXC.
CUYD

EMB.
CUYD

STATE	PROJECT	SHEET NUMBER
AK	DOT 135(4)	E.3

BEGIN PROJECT

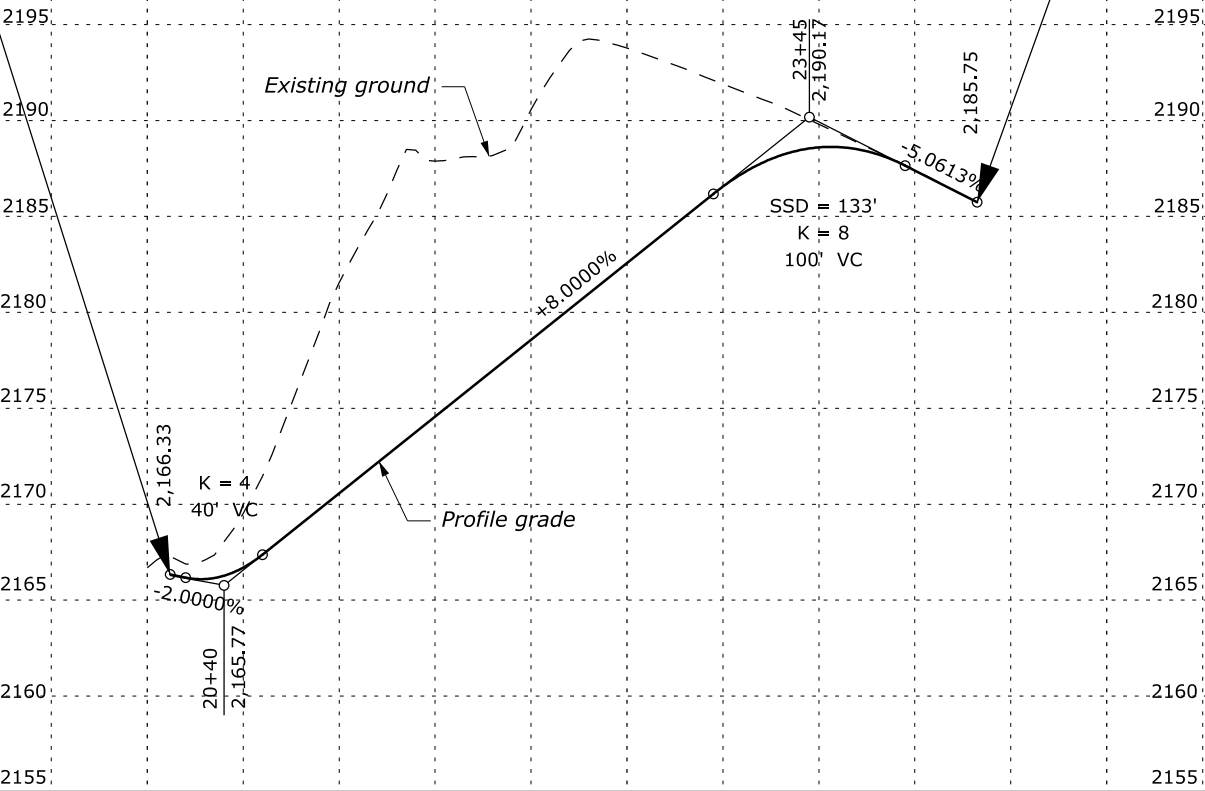
GLENN HIGHWAY
LONG LAKE MP 84 - 92
APPROACH ROAD B
20+00.00

N=23111.76
E=226037.07
El=2166.33

END PROJECT

GLENN HIGHWAY
LONG LAKE MP 84 - 92
APPROACH ROAD B
24+32.47

N=233372.03
E=225744.40
El=2185.75



20+00 22+50 25+00 27+50

EXC.
CUYD

EMB.
CUYD