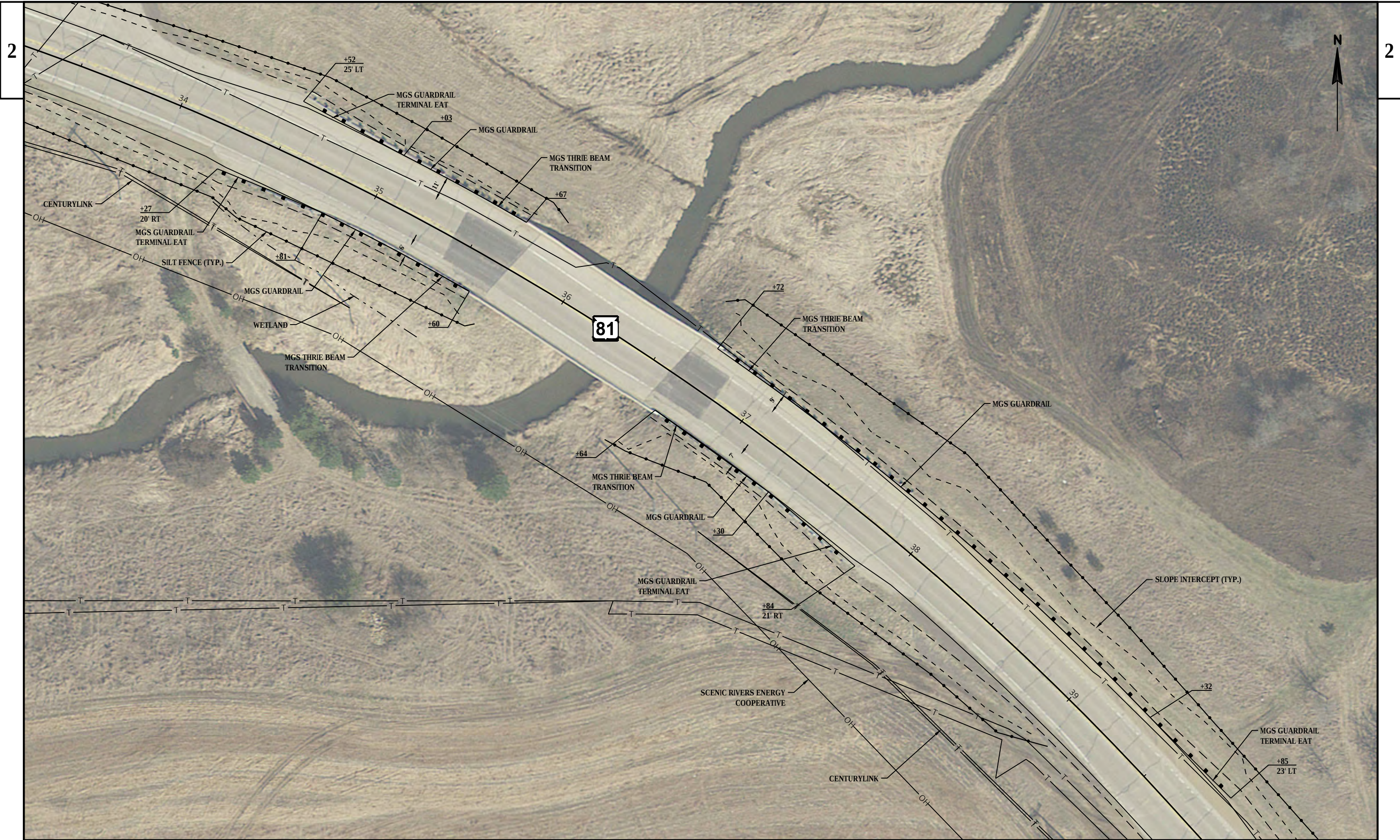
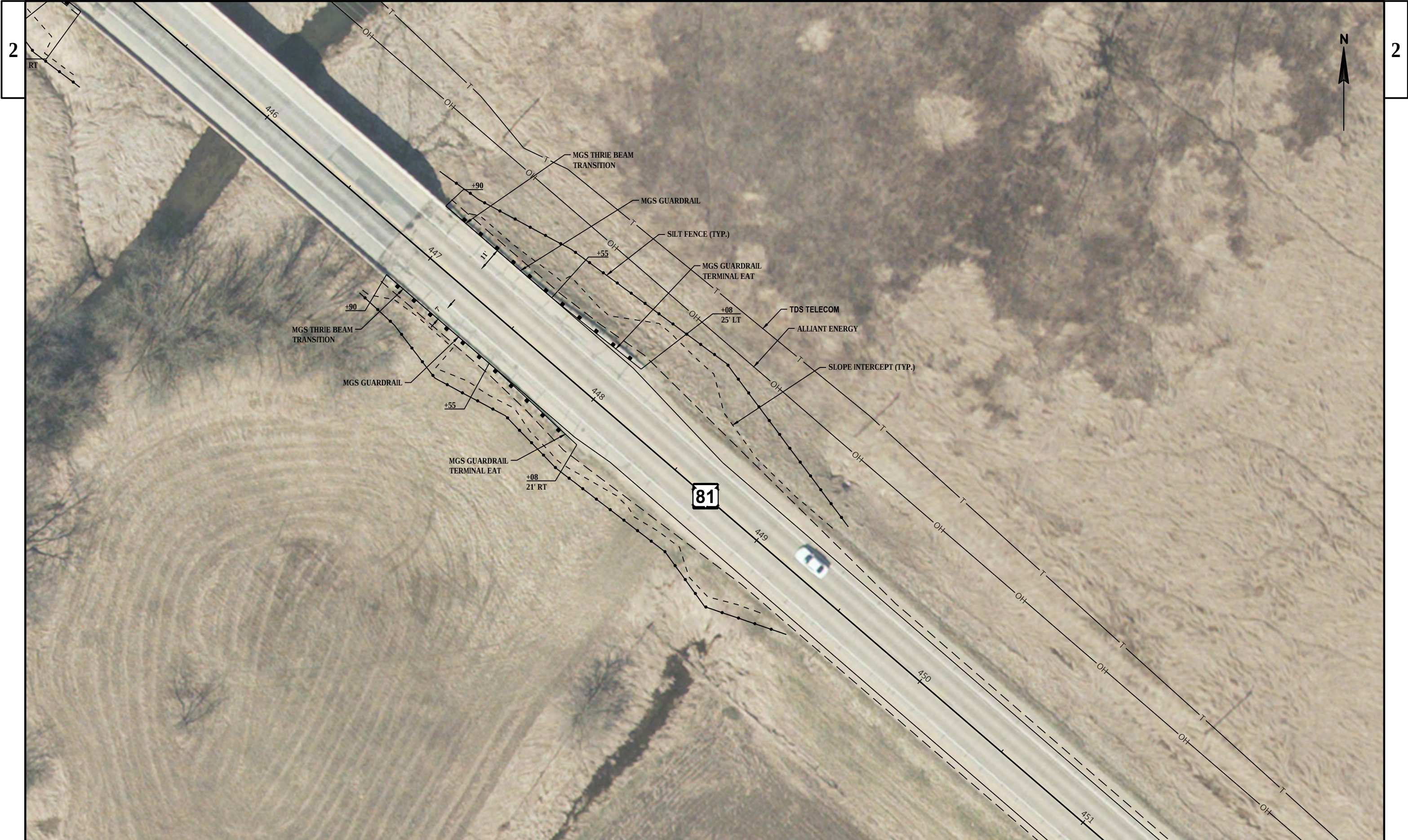




PROJECT NO: 5944-01-60	HWY: STH 81	COUNTY: LAFAYETTE & GREEN	CONSTRUCTION DETAILS: BEAM GUARD INSTALLATION	SHEET	E
------------------------	-------------	---------------------------	---	-------	---



PROJECT NO: 5944-01-60	HWY: STH 81	COUNTY: LAFAYETTE & GREEN	CONSTRUCTION DETAILS: BEAM GUARD INSTALLATION	SHEET	E
------------------------	-------------	---------------------------	---	-------	---



PROJECT NO: 5944-01-60	HWY: STH 81	COUNTY: LAFAYETTE & GREEN	CONSTRUCTION DETAILS: BEAM GUARD INSTALLATION	SHEET	E
------------------------	-------------	---------------------------	---	-------	---



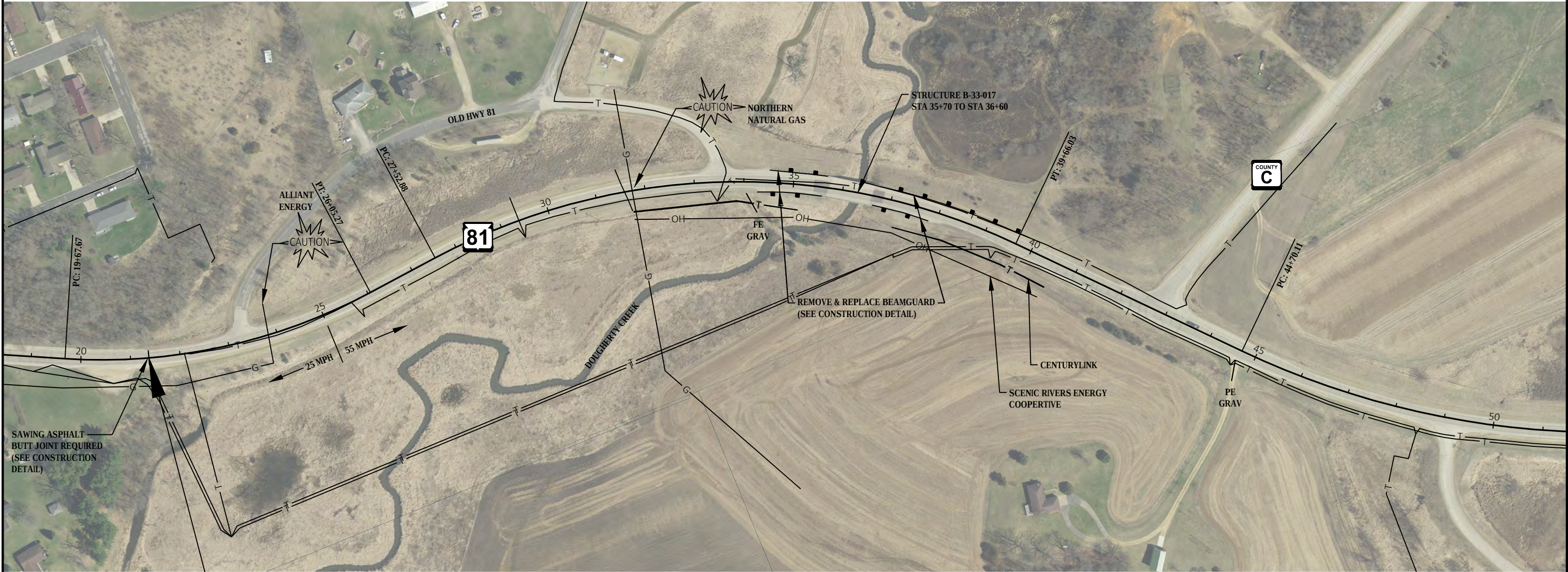
PROJECT NO: 5944-01-60	HWY: STH 81	COUNTY: LAFAYETTE & GREEN	CONSTRUCTION DETAILS: BEAM GUARD INSTALLATION	SHEET	E
------------------------	-------------	---------------------------	---	-------	---

PI STA = 22+94.89
Y = 172550.866
X = 552368.970
DELTA = 31°46'00"
D = 4°58'56"
T = 327.22'
L = 637.60'
R = 1150.00'
PC STA = 19+67.67
Y = 172694.158
X = 552074.789
PT STA = 26+05.27
Y = 172583.915
X = 552694.521
BK = S64°01'47.9"E
AH = N84°12'12.4"E

SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
18+07.67	-2.0%	-2.0%	NORMAL CROWN
18+61.00	-2.0%	0.0%	ZERO SUPER
19+14.33	-2.0%	+2.0%	REVERSE CROWN
20+21.00	-6.0%	+6.0%	FULL SUPER
25+51.94	-6.0%	+6.0%	FULL SUPER

PI STA = 34+07.68
Y = 172664.956
X = 553492.832
DELTA = 53°28'05"
D = 4°24'27"
T = 654.80'
L = 1213.15'
R = 1300.00'
PC STA = 27+52.88
Y = 172598.823
X = 552841.381
PT STA = 39+66.03
Y = 172180.865
X = 553933.762
BK = N84°12'12.4"E
AH = S42°19'42.7"E

SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
28+06.21	+6.0%	-6.0%	FULL SUPER
39+12.71	+6.0%	-6.0%	FULL SUPER
40+19.37	+2.0%	-2.0%	REVERSE CROWN
40+72.71	0.0%	-2.0%	ZERO SUPER
41+26.04	-2.0%	-2.0%	NORMAL CROWN



BEGIN PROJECT
STA 21+37
X= 552,231.92
Y=172,631.46

SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
43+13.32	-2.0%	-2.0%	NORMAL CROWN
43+66.77	-2.0%	0.0%	ZERO SUPER
44+20.21	-2.0%	+2.0%	REVERSE CROWN
45+21.77	-5.8%	+5.8%	FULL SUPER
55+02.30	-5.8%	+5.8%	FULL SUPER
56+03.85	-2.0%	+2.0%	REVERSE CROWN
56+57.30	-2.0%	0.0%	ZERO SUPER
57+10.75	-2.0%	-2.0%	NORMAL CROWN

PI STA = 50+31.17
Y = 171393.415
X = 554651.003
DELTA = 36°31'47"
D = 3°22'13"
T = 561.06'
L = 1083.86'
R = 1700.00'
PC STA = 44+70.11
Y = 171808.207
X = 554273.193
PT STA = 55+53.96
Y = 171284.996
X = 555201.493
BK = S42°19'42.7"E
AH = S78°51'29.6"E

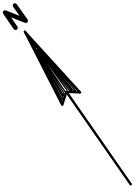
SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
63+96.17	-2.0%	-2.0%	NORMAL CROWN
64+49.27	0.0%	-2.0%	ZERO SUPER
65+02.37	+2.0%	-2.0%	REVERSE CROWN
65+26.27	+2.9%	-2.9%	FULL SUPER
78+16.09	+2.9%	-2.9%	FULL SUPER
78+39.99	+2.0%	-2.0%	REVERSE CROWN
78+93.09	0.0%	-2.0%	ZERO SUPER
79+46.20	-2.0%	-2.0%	NORMAL CROWN

PI STA = 71+74.65
Y = 170971.818
X = 556791.634
DELTA = 14°13'48"
D = 1°03'40"
T = 674.05'
L = 1341.15'
R = 5400.00'
PC STA = 65+00.61
Y = 171102.069
X = 556130.293
PT STA = 78+41.76
Y = 170682.996
X = 557400.664
BK = S78°51'29.6"E
AH = S64°37'41.3"E



SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
89+43.36	-2.0%	-2.0%	NORMAL CROWN
98+96.70	0.0%	-2.0%	ZERO SUPER
99+50.03	+2.0%	-2.0%	REVERSE CROWN
100+56.70	+6.0%	-6.0%	FULL SUPER
112+69.90	+6.0%	-6.0%	FULL SUPER
113+76.56	+2.0%	-2.0%	REVERSE CROWN
114+29.90	0.0%	-2.0%	ZERO SUPER
114+83.23	-2.0%	-2.0%	NORMAL CROWN

PI STA = 107+12.98
Y = 169452.700
X = 559994.947
DELTA = 52°09'12"
D = 3°57'05"
T = 709.62'
L = 1319.86'
R = 1450.00'
PC STA = 100+03.37
Y = 169756.765
X = 559353.777
PT STA = 113+23.23
Y = 168759.839
X = 560148.231
BK = S64°37'41.3"E
AH = S12°28'29.4"E





SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
117+98.09	-2.0%	-2.0%	NORMAL CROWN
118+51.42	-2.0%	0.0%	ZERO SUPER
119+04.76	-2.0%	+2.0%	REVERSE CROWN
120+11.42	-6.0%	+6.0%	FULL SUPER
138+39.07	-6.0%	+6.0%	FULL SUPER
139+45.74	-2.0%	+2.0%	REVERSE CROWN
139+99.07	-2.0%	0.0%	ZERO SUPER
140+52.40	-2.0%	-2.0%	NORMAL CROWN

PI STA = 130+99.80
Y = 167025.206
X = 560531.991
DELTA = 76°25'58"
D = 3°57'05"
T = 1141.71'
L = 1934.30'
R = 1450.00'
PC STA = 119+58.09
Y = 168139.959
X = 560285.370
PT STA = 138+92.40
Y = 167003.438
X = 561673.491
BK = S12°28'29.4"E
AH = S88°54'27.1"E



PI STA = 172+04.11
Y = 166940.296
X = 564984.602
DELTA = 1°36'54"
D = 0°24'33"
T = 197.32'
L = 394.61'
R = 14000.00'
PC STA = 170+06.79
Y = 166944.058
X = 564787.319
PT STA = 174+01.40
Y = 166942.095
X = 565181.913
BK = S88°54'27.1"E
AH = N89°28'39.0"E

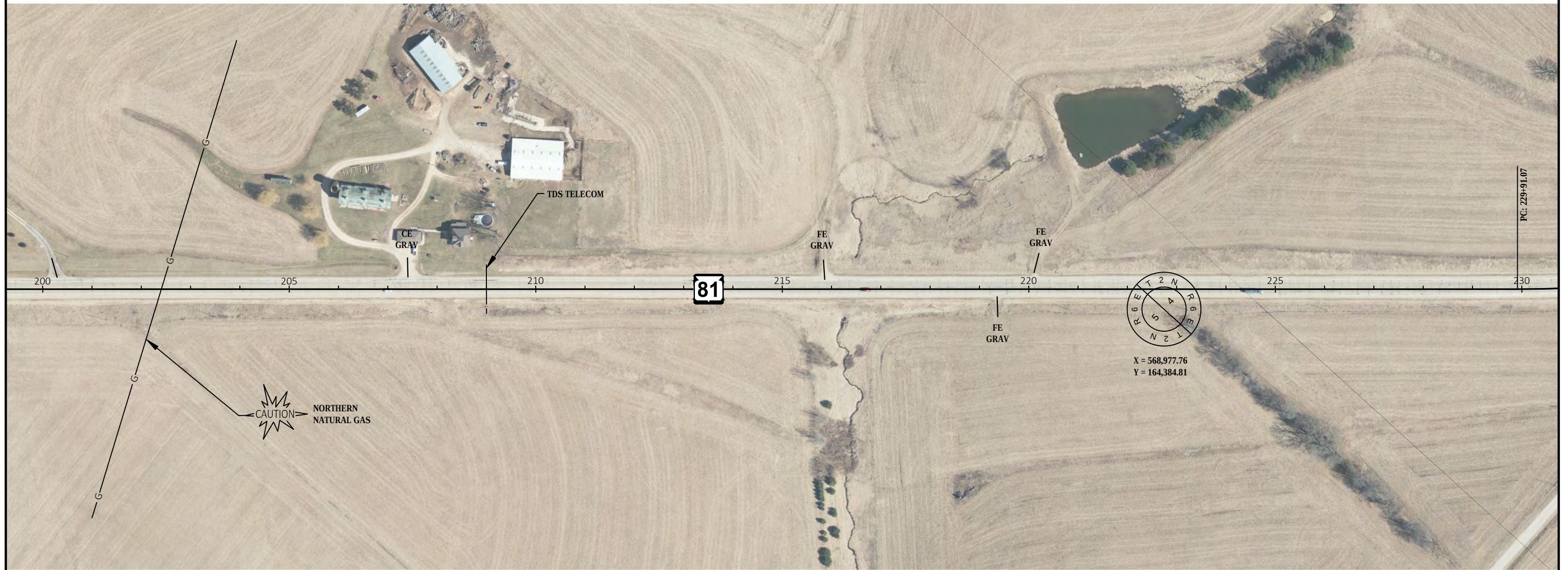
PI STA = 189+11.72
Y = 166955.868
X = 566692.171
DELTA = 48°12'34"
D = 3°57'05"
T = 648.76'
L = 1220.05'
R = 1450.00'
PC STA = 182+62.97
Y = 166949.952
X = 566043.439
PT STA = 194+83.01
Y = 166476.125
X = 567128.904
BK = N89°28'39.0"E
AH = S42°18'47.0"E

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
181+02.96	-2.0%	-2.0%	NORMAL CROWN
181+56.29	0.0%	-2.0%	ZERO SUPER
182+09.63	+2.0%	-2.0%	REVERSE CROWN
183+16.29	+6.0%	-6.0%	FULL SUPER
194+29.69	+6.0%	-6.0%	FULL SUPER
195+36.35	+2.0%	-2.0%	REVERSE CROWN
195+89.69	0.0%	-2.0%	ZERO SUPER
196+43.02	-2.0%	-2.0%	NORMAL CROWN

ENVIRONMENTALLY SENSITIVE AREA

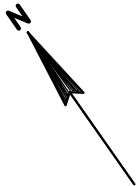




NOTE:
CONTRACTOR TO PROTECT JORDAN CENTER DH5209 GPS AND KEEP
CONSTRUCTION EQUIPMENT AT LEAST 10 FEET AWAY FROM JORDAN CENTER
DH5209 GPS.
ENSURE THAT JORDAN CENTER DH5209 GPS IS/ARE NOT DISTURBED, BUMPED OR
MOVED DURING THE DURATION OF THE PROJECT. NOTIFY JACOB ROCKWEILER
IMMEDIATELY IF JORDAN CENTER DH5209 GPS IS/ARE DISTURBED, BUMPED OR
MOVED DURING CONSTRUCTION OPERATIONS.

PI STA = 253+75.34
Y = 162645.652
X = 571515.540
DELTA = 24°42'03"
D = 2°47'42"
T = 448.86'
L = 883.78'
R = 2050.00'
PC STA = 249+26.47
Y = 162857.270
X = 571119.690
PT STA = 258+10.25
Y = 162287.977
X = 571786.739
BK = S61°52'16.9"E
AH = S37°10'13.4"E

SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
247+77.13	-2.0%	-2.0%	NORMAL CROWN
248+30.47	0.0%	-2.0%	ZERO SUPER
248+83.80	+2.0%	-2.0%	REVERSE CROWN
249+74.47	+5.4%	-5.4%	FULL SUPER
257+62.26	+5.4%	-5.4%	FULL SUPER
258+52.93	+2.0%	-2.0%	REVERSE CROWN
259+06.26	0.0%	-2.0%	ZERO SUPER
259+59.59	-2.0%	-2.0%	NORMAL CROWN



SUPERELEVATION TABLE

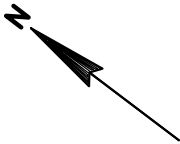
STATION	LT SLOPE	RT SLOPE	REMARKS
228+49.20	-2.0%	-2.0%	NORMAL CROWN
229+02.40	-2.0%	0.0%	ZERO SUPER
229+55.60	-2.0%	+2.0%	REVERSE CROWN
230+35.40	-5.0%	+5.0%	FULL SUPER
237+48.93	-5.0%	+5.0%	FULL SUPER
238+28.73	-2.0%	+2.0%	REVERSE CROWN
238+81.93	-2.0%	0.0%	ZERO SUPER
239+35.13	-2.0%	-2.0%	NORMAL CROWN

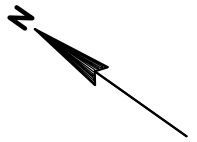
PI STA = 233+96.11
Y = 163582.481
X = 569763.124
DELTA = 19°33'30"
D = 2°26'17"
T = 405.03'
L = 802.19'
R = 2350.00'
PC STA = 229+91.07
Y = 163881.995
X = 569490.462
PT STA = 237+93.26
Y = 163391.526
X = 570120.320
BK = S42°18'47.0"E
AH = S61°52'16.9"E

PI STA = 278+76.25
Y = 160641.703
X = 573034.989
DELTA = 3°00'58"
D = 0°38'12"
T = 236.94'
L = 473.77'
R = 9000.00'
PC STA = 276+39.31
Y = 160830.508
X = 572891.832
PT STA = 281+13.09
Y = 160445.626
X = 573168.014
BK = S37°10'13.4"E
AH = S34°09'15.3"E

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
275+50.98	-2.0%	-2.0%	NORMAL CROWN
276+03.98	0.0%	-2.0%	ZERO SUPER
276+56.98	+2.0%	-2.0%	FULL SUPER
280+95.42	+2.0%	-2.0%	FULL SUPER
281+48.42	0.0%	-2.0%	ZERO SUPER
282+01.42	-2.0%	-2.0%	NORMAL CROWN





SUPERELEVATION TABLE

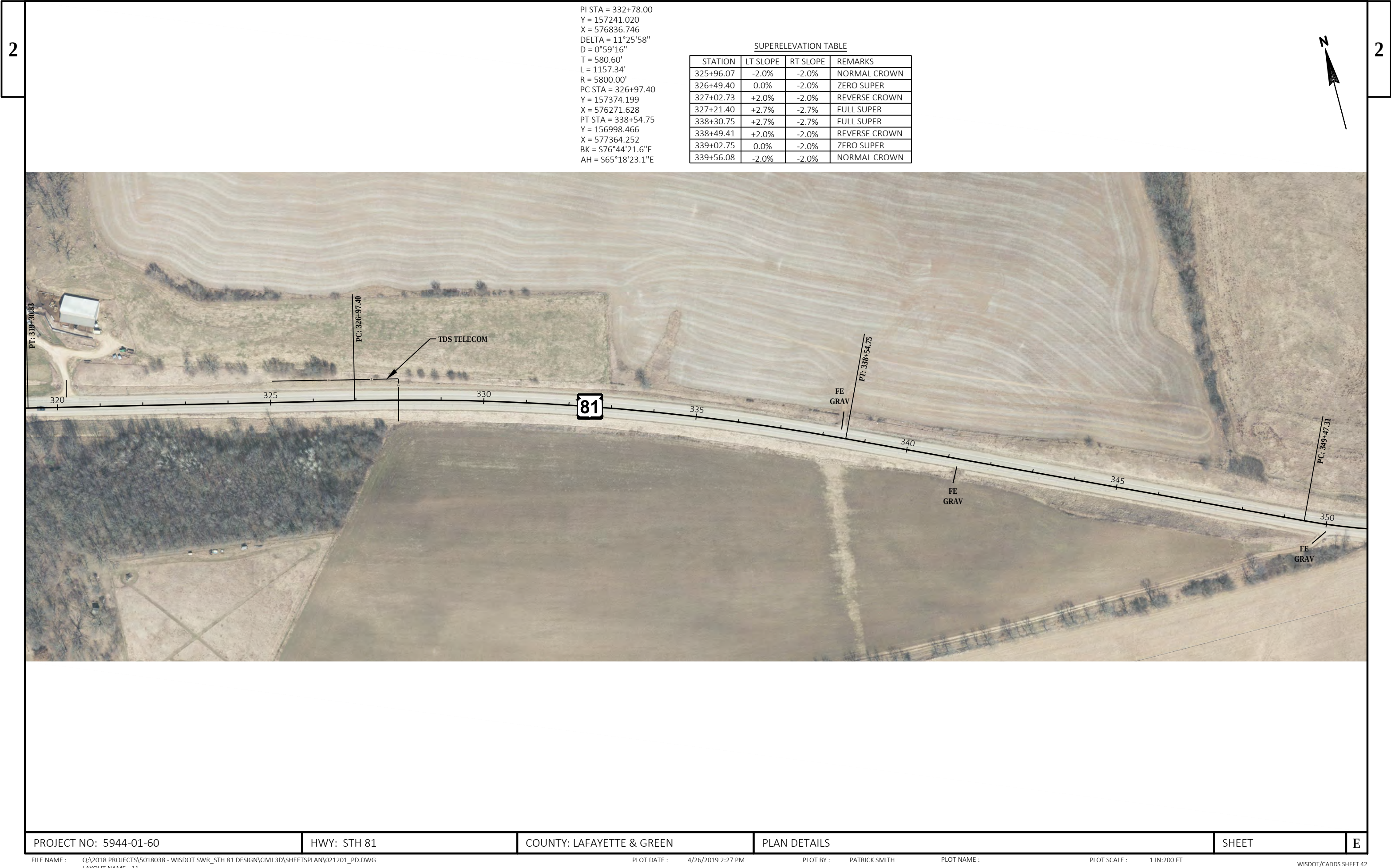
STATION	LT SLOPE	RT SLOPE	REMARKS
294+81.68	-2.0%	-2.0%	NORMAL CROWN
295+34.68	-2.0%	0.0%	ZERO SUPER
295+87.68	-2.0%	+2.0%	FULL SUPER
300+79.03	-2.0%	+2.0%	FULL SUPER
301+32.03	-2.0%	0.0%	ZERO SUPER
301+85.03	-2.0%	-2.0%	NORMAL CROWN

PI STA = 298+33.43
Y = 159021.991
X = 574133.855
DELTA = 3°21'11"
D = 0°38'12"
T = 263.42'
L = 526.68'
R = 9000.00'
PC STA = 295+70.01
Y = 159239.976
X = 573985.967
PT STA = 300+96.70
Y = 158795.730
X = 574268.740
BK = S34°09'15.3"E
AH = S30°48'04.7"E

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
306+08.26	-2.0%	-2.0%	NORMAL CROWN
306+61.60	-2.0%	0.0%	ZERO SUPER
307+14.93	-2.0%	+2.0%	REVERSE CROWN
308+21.60	-6.0%	+6.0%	FULL SUPER
318+77.51	-6.0%	+6.0%	FULL SUPER
319+84.17	-2.0%	+2.0%	REVERSE CROWN
320+37.51	-2.0%	0.0%	ZERO SUPER
320+90.84	-2.0%	-2.0%	NORMAL CROWN

PI STA = 313+82.83
Y = 157691.006
X = 574927.322
DELTA = 45°56'17"
D = 3°57'05"
T = 614.56'
L = 1162.57'
R = 1450.00'
PC STA = 307+68.27
Y = 158218.884
X = 574612.627
PT STA = 319+30.83
Y = 157550.036
X = 575525.499
BK = S30°48'04.7"E
AH = S76°44'21.6"E



PI STA = 332+78.00
Y = 157241.020
X = 576836.746
DELTA = 11°25'58"
D = 0°59'16"
T = 580.60'
L = 1157.34'
R = 5800.00'
PC STA = 326+97.40
Y = 157374.199
X = 576271.628
PT STA = 338+54.75
Y = 156998.466
X = 577364.252
BK = S76°44'21.6"E
AH = S65°18'23.1"E

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
325+96.07	-2.0%	-2.0%	NORMAL CROWN
326+49.40	0.0%	-2.0%	ZERO SUPER
327+02.73	+2.0%	-2.0%	REVERSE CROWN
327+21.40	+2.7%	-2.7%	FULL SUPER
338+30.75	+2.7%	-2.7%	FULL SUPER
338+49.41	+2.0%	-2.0%	REVERSE CROWN
339+02.75	0.0%	-2.0%	ZERO SUPER
339+56.08	-2.0%	-2.0%	NORMAL CROWN



PI STA = 352+98.69
Y = 156395.238
X = 578676.152
DELTA = 27°14'37"
D = 3°57'05"
T = 351.38'
L = 689.46'
R = 1450.00'
PC STA = 349+47.31
Y = 156542.031
X = 578356.908
PT STA = 356+36.77
Y = 156410.871
X = 579027.180
BK = S65°18'23.1"E
AH = N87°27'00.0"E

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
347+87.31	-2.0%	-2.0%	NORMAL CROWN
348+40.64	-2.0%	0.0%	ZERO SUPER
348+93.97	-2.0%	+2.0%	REVERSE CROWN
350+00.64	-6.0%	+6.0%	FULL SUPER
355+83.44	-6.0%	+6.0%	FULL SUPER
356+90.11	-2.0%	+2.0%	REVERSE CROWN
357+43.44	-2.0%	0.0%	ZERO SUPER
357+96.78	-2.0%	-2.0%	NORMAL CROWN

PI STA = 375+43.61
Y = 156495.709
X = 580932.125
DELTA = 3°54'31"
D = 0°28'39"
T = 409.48'
L = 818.64'
R = 12000.00'
PC STA = 371+34.13
Y = 156477.490
X = 580523.054
PT STA = 379+52.76
Y = 156541.769
X = 581339.003
BK = N87°27'00.0"E
AH = N83°32'28.7"E



ENVIRONMENTALLY SENSITIVE AREA





ENVIRONMENTALLY SENSITIVE AREA



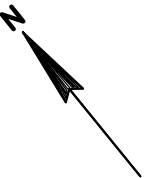
PI STA = 413+22.27
Y = 156920.796
X = 584687.124
DELTA = 30°21'28"
D = 2°56'18"
T = 529.03'
L = 1033.20'
R = 1950.00'
PC STA = 407+93.24
Y = 156861.286
X = 584161.449
PT STA = 418+26.43
Y = 156706.470
X = 585170.798
BK = N83°32'28.7"E
AH = S66°06'03.1"E

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
406+41.78	-2.0%	-2.0%	NORMAL CROWN
406+95.23	0.0%	-2.0%	ZERO SUPER
407+48.69	+2.0%	-2.0%	REVERSE CROWN
408+42.23	+5.5%	-5.5%	FULL SUPER
417+77.44	+5.5%	-5.5%	FULL SUPER
418+70.99	+2.0%	-2.0%	REVERSE CROWN
419+24.44	0.0%	-2.0%	ZERO SUPER
419+77.89	-2.0%	-2.0%	NORMAL CROWN

PI STA = 441+35.41
Y = 155771.040
X = 587281.801
DELTA = 16°57'11"
D = 2°23'14"
T = 357.68'
L = 710.13'
R = 2400.00'
PC STA = 437+77.73
Y = 155915.946
X = 586954.789
PT STA = 444+87.86
Y = 155537.079
X = 587552.348
BK = S66°06'03.1"E
AH = S49°08'51.9"E

SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
436+35.86	-2.0%	-2.0%	NORMAL CROWN
436+89.06	0.0%	-2.0%	ZERO SUPER
437+42.26	+2.0%	-2.0%	REVERSE CROWN
438+22.06	+5.0%	-5.0%	FULL SUPER
444+43.53	+5.0%	-5.0%	FULL SUPER
445+23.33	+2.0%	-2.0%	REVERSE CROWN
445+76.53	0.0%	-2.0%	ZERO SUPER
446+29.73	-2.0%	-2.0%	NORMAL CROWN



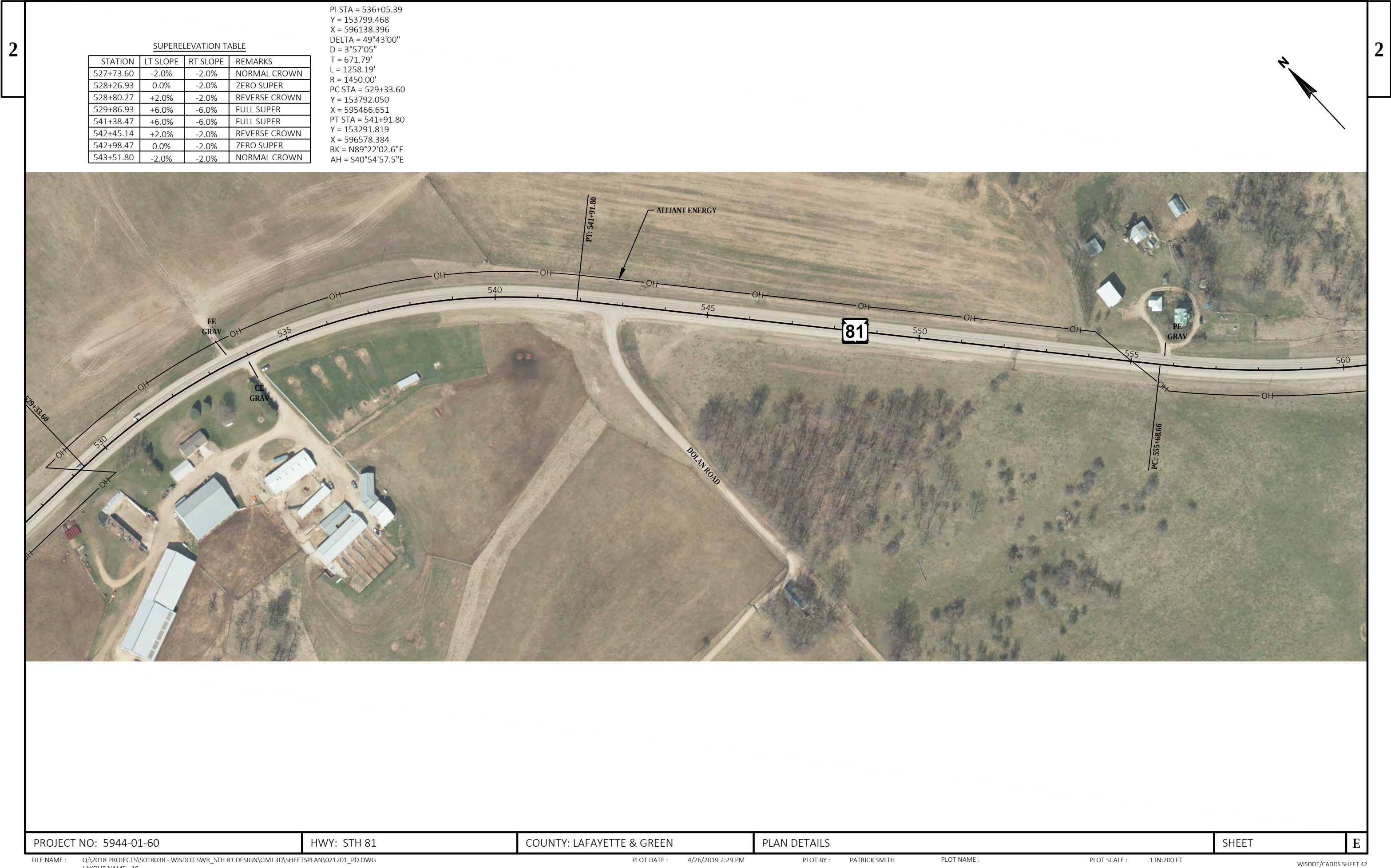
SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
456+98.26	-2.0%	-2.0%	NORMAL CROWN
457+51.59	-2.0%	0.0%	ZERO SUPER
458+04.93	-2.0%	+2.0%	REVERSE CROWN
458+55.59	-3.9%	+3.9%	FULL SUPER
482+10.61	-3.9%	+3.9%	FULL SUPER
482+61.28	-2.0%	+2.0%	REVERSE CROWN
483+14.61	-2.0%	0.0%	ZERO SUPER
483+67.95	-2.0%	-2.0%	NORMAL CROWN

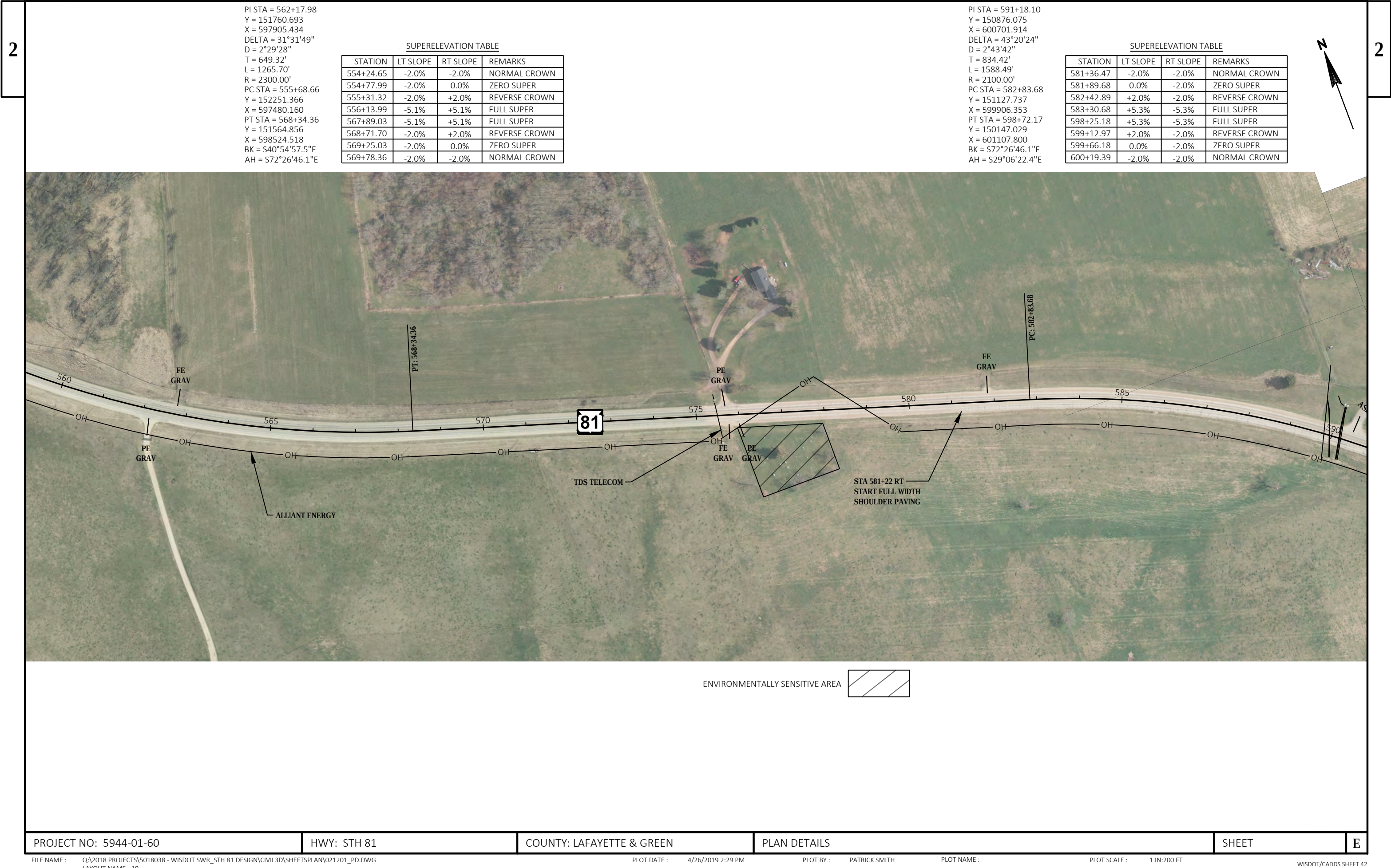
PI STA = 470+84.01
Y = 153838.908
X = 589516.075
DELTA = 39°41'13"
D = 1°38'13"
T = 1263.08'
L = 2424.34'
R = 3500.00'
PC STA = 458+20.93
Y = 154665.103
X = 588560.682
PT STA = 482+45.27
Y = 153813.223
X = 590778.896
BK = S49°08'51.9"E
AH = S88°50'05.3"E

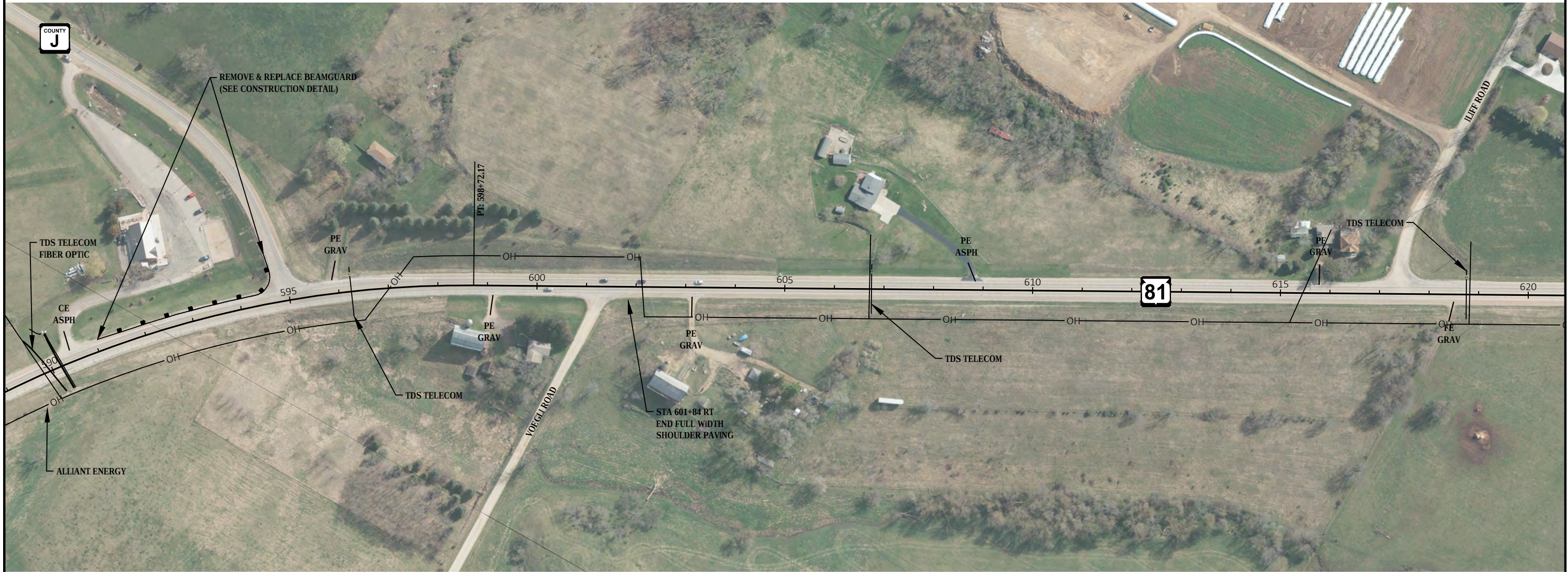
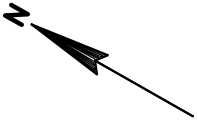


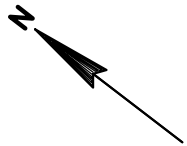


PI STA = 505+69.86
Y = 153765.952
X = 593103.003
DELTA = 1°47'52"
D = 0°17'11"
T = 313.81'
L = 627.56'
R = 20000.00'
PC STA = 502+56.06
Y = 153772.333
X = 592789.262
PT STA = 508+83.62
Y = 153769.416
X = 593416.789
BK = S88°50'05.3"E
AH = N89°22'02.6"E





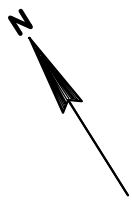




SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
629+07.41	-2.0%	-2.0%	NORMAL CROWN
629+60.74	-2.0%	0.0%	ZERO SUPER
630+14.08	-2.0%	+2.0%	REVERSE CROWN
630+56.74	-3.6%	+3.6%	FULL SUPER
639+82.76	-3.6%	+3.6%	FULL SUPER
640+25.42	-2.0%	+2.0%	REVERSE CROWN
640+78.76	-2.0%	0.0%	ZERO SUPER
641+32.09	-2.0%	-2.0%	NORMAL CROWN

PI STA = 635+22.29
Y = 146957.851
X = 602883.327
DELTA = 14°10'51"
D = 1°25'57"
T = 497.55'
L = 990.01'
R = 4000.00'
PC STA = 630+24.75
Y = 147392.566
X = 602641.305
PT STA = 640+14.75
Y = 146595.673
X = 603224.471
BK = S29°06'22.4"E
AH = S43°17'13.3"E



SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
646+27.17	-2.0%	-2.0%	NORMAL CROWN
646+80.24	-2.0%	0.0%	ZERO SUPER
647+33.32	-2.0%	+2.0%	REVERSE CROWN
647+49.24	-2.6%	+2.6%	FULL SUPER
662+35.88	-2.6%	+2.6%	FULL SUPER
662+51.81	-2.0%	+2.0%	REVERSE CROWN
663+04.88	-2.0%	0.0%	ZERO SUPER
663+57.96	-2.0%	-2.0%	NORMAL CROWN

PI STA = 654+96.76
Y = 145516.880
X = 604240.613
DELTA = 14°38'08"
D = 0°57'18"
T = 770.51'
L = 1532.64'
R = 6000.00'
PC STA = 647+26.24
Y = 146077.758
X = 603712.308
PT STA = 662+58.88
Y = 145107.689
X = 604893.493
BK = S43°17'13.3"E
AH = S57°55'21.5"E