$TIME$ $DATE$ $USER$

Texas Department of Transportation

DALLAS DISTRICT

MOHAMED "MO" K. BUR, P.E. DISTRICT ENGINEER

100% DESIGN SCHEMATIC
SL 12 - SS 482

NET LENGTH OF PROJECT = 9.46 MI

CSJ: 0581-02-124, ETC.

SL 12 - FROM: AT SH 183
TO:
SS 482 - FROM: AT SH 114 AND SH 183
TO:

Dallas County
HIGHWAY CLASSIFICATION
URBAN FREEWAY

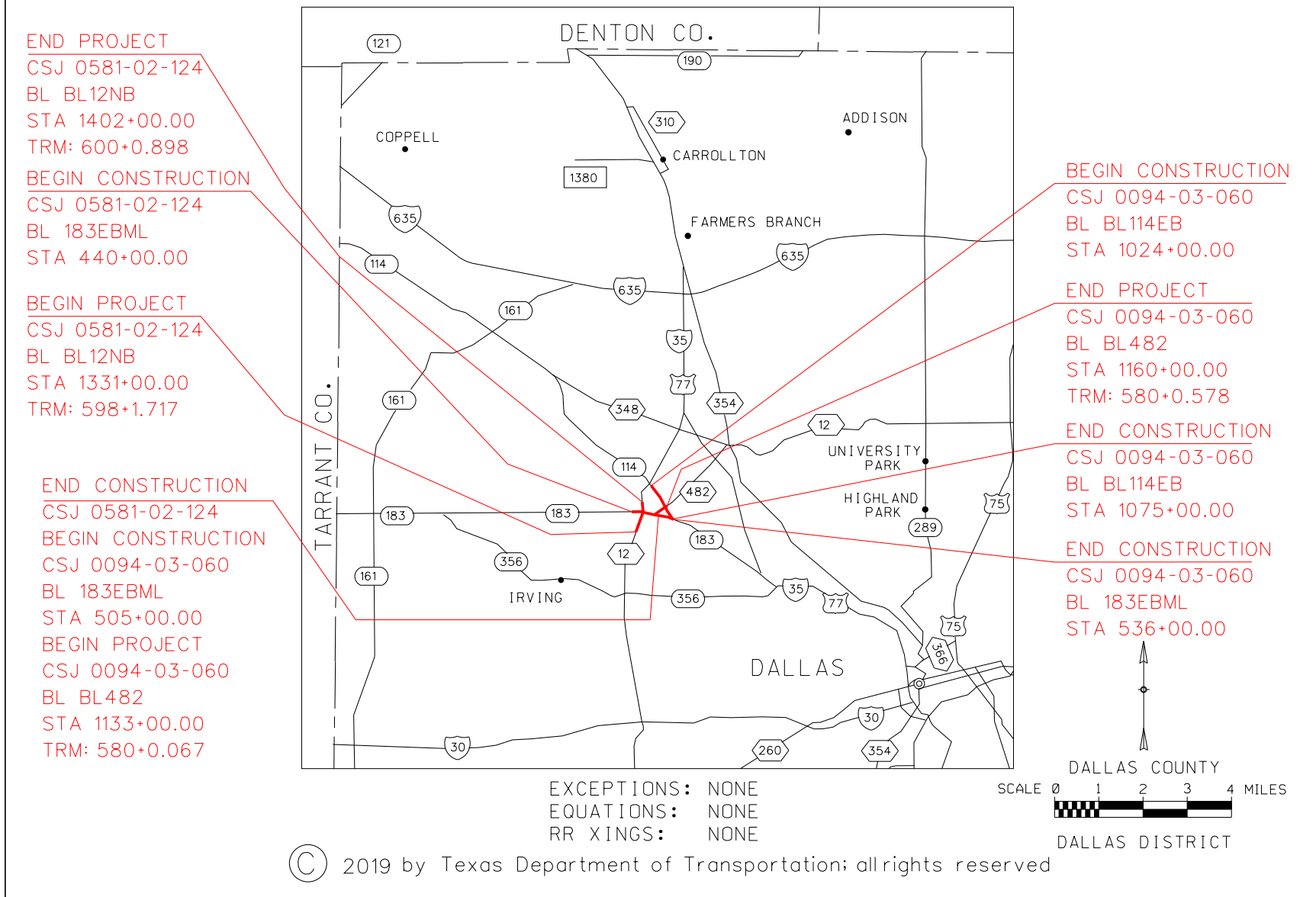
MARCH 2019

Design Speeds

- = 60 MPH (MAIN LANES - LP 12, SH 183, SH 114)
- = 55 MPH (MAIN LANES - LP 12 ASPHALT TRANS.)
- = 50 MPH (MAIN LANES - SPUR 482)
- = 60 MPH (MANAGED LANES)
- = 40 MPH (ALL RAMPS)
- = 40 MPH (ALL DIRECT CONNECTORS EXCEPT NOTED BELOW)
- = 35 MPH (DIRECT CONNECTOR - EB SH183 TO SB LOOP 12)
- = 40 MPH (FRONTAGE ROADS)
- = 35 MPH (CROSS STREETS - LOCAL - GRAUWYLER RD., MARYLAND DR.)
- = 20 MPH (U-TURNS)

AVERAGE DAILY TRAFFIC 2019 (2039)

LOOP 12:	141,200 (195,500)
SH 183:	155,600 (215,200)
SPUR 482:	25,300 (35,100)
SH 114:	77,800 (107,700)


END PROJECT
CSJ 0581-02-124
BL BL12NB
STA 1402+00.00
TRM: 600+0.898
BEGIN CONSTRUCTION
CSJ 0581-02-124
BL 183EBML
STA 440+00.00
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CSJ 0581-02-124
BL BL12NB
STA 1331+00.00
TRM: 598+1.717
END CONSTRUCTION
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CSJ 0094-03-060
BL 183EBML
STA 505+00.00
BEGIN PROJECT
CSJ 0094-03-060
BL BL482
STA 1133+00.00
TRM: 580+0.067
BEGIN CONSTRUCTION
CSJ 0094-03-060
BL BL114EB
STA 1024+00.00
END PROJECT
CSJ 0094-03-060
BL BL482
STA 1160+00.00
TRM: 580+0.578
END CONSTRUCTION
CSJ 0094-03-060
BL BL114EB
STA 1075+00.00
END CONSTRUCTION
CSJ 0094-03-060
BL 183EBML
STA 536+00.00
DENTON CO.
TARRANT CO.
COPPELL
CARROLLTON
ADDISON
FARMERS BRANCH
UNIVERSITY PARK
HIGHLAND PARK
IRVING
DALLAS
121
190
310
1380
635
114
161
35
77
354
348
12
482
183
356
75
289
30
260
DALLAS COUNTY
SCALE 0 1 2 3 4 MILES
DALLAS DISTRICT

EXCEPTIONS: NONE
EQUATIONS: NONE
RR XINGS: NONE

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Roll: 9 of 9

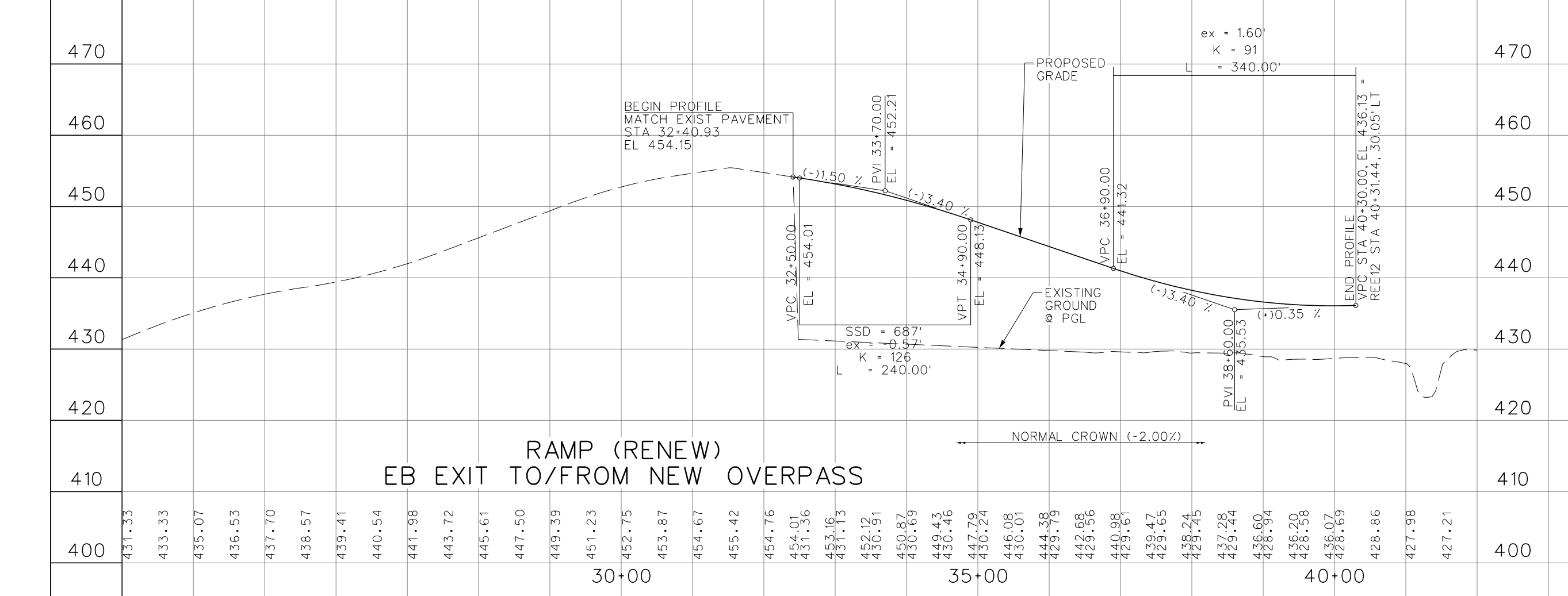
BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO. 264
2350 VALLEY VIEW LANE
DALLAS, TEXAS 75234
TEL: (972) 231-8800 FAX: (972) 231-5900

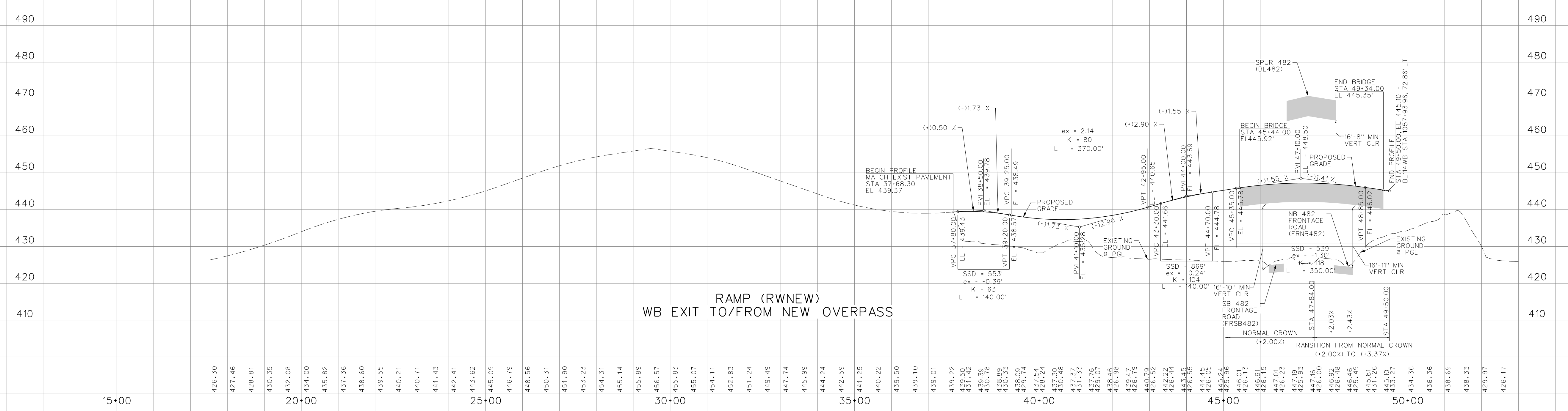
THESE DOCUMENTS ARE NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED UNDER THE SUPERVISION OF:

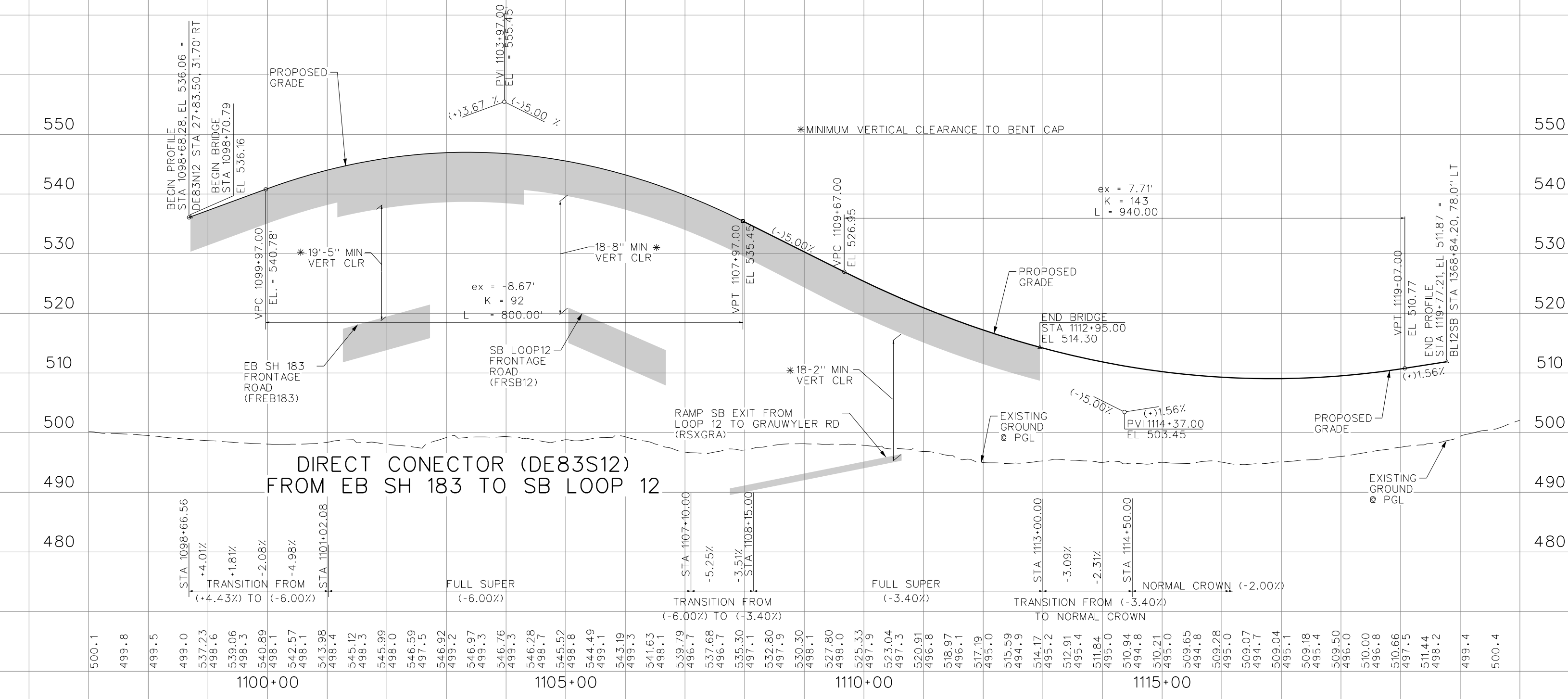
NAME: SHAHRIAR AZAD
P.E. NO.: 91682
DATE: 3/22/2019

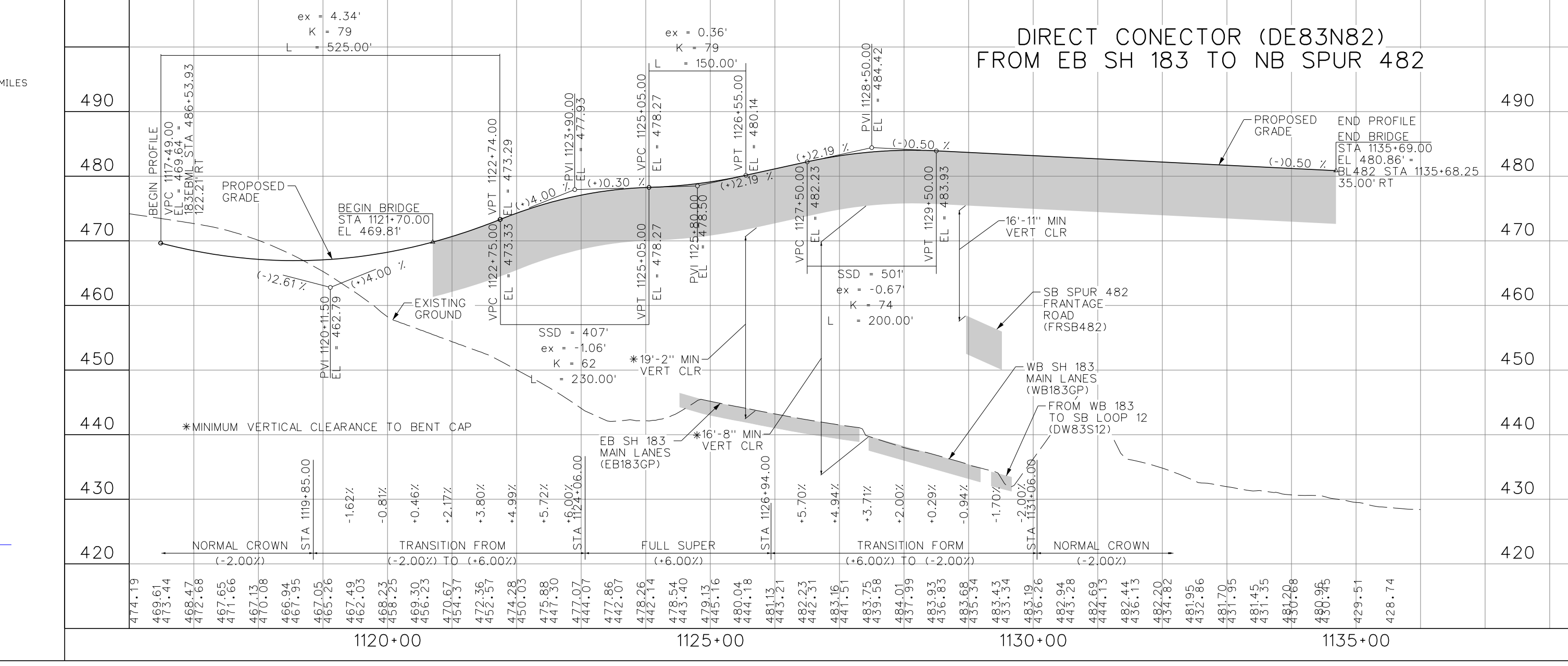
DATE APPROVED: ____________

$FILE$


RAMP (RENEW)
EB EXIT TO/FROM NEW OVERPASS
BEGIN PROFILE
MATCH EXIST PAVEMENT
STA 32+40.93
EL 454.15
(-)1.50 %
PVI 33+70.00
EL = 452.21
(-)3.40 %
PROPOSED GRADE
ex = 1.60'
K = 91
L = 340.00'
VPC 32+50.00
EL = 454.01
VPT 34+90.00
EL = 448.13
VPC 36+90.00
EL = 441.32
SSD = 687'
ex = -0.57'
K = 126
L = 240.00'
EXISTING GROUND @ PGL
(-)3.40 %
(+)0.35 %
PVI 38+60.00
EL = 435.53
END PROFILE
VPC STA 40+30.00, EL 436.13 = RE12 STA 40+31.44, 30.05' LT
NORMAL CROWN (-2.00%)
470
460
450
440
430
420
410
400
30+00
35+00
40+00
431.33
433.33
435.07
436.53
437.70
438.57
439.41
440.54
441.98
443.72
445.61
447.50
449.39
451.23
452.75
453.87
454.67
455.42
454.76
454.01 431.36
453.16 431.13
452.12 430.91
450.87 430.69
449.43 430.46
447.79 430.24
446.08 430.01
444.38 429.79
442.68 429.56
440.98 429.61
439.47 429.65
438.24 429.45
437.28 429.44
436.60 428.94
436.20 428.58
436.07 428.69
428.86
427.98
427.21


RAMP (RWNEW)
WB EXIT TO/FROM NEW OVERPASS
BEGIN PROFILE
MATCH EXIST PAVEMENT
STA 37+68.30
EL 439.37
(+)0.50 %
(-)1.73 %
PVI 38+50.00
EL = 439.78
VPC 37+80.00
EL = 439.43
VPT 39+20.00
EL = 438.57
VPC 39+25.00
EL = 438.49
ex = 2.14'
K = 80
L = 370.00'
PROPOSED GRADE
(-)1.73 %
(+)2.90 %
PVI 41+10.00
EL = 433.28
EXISTING GROUND @ PGL
SSD = 553'
ex = -0.39'
K = 63
L = 140.00'
(+)2.90 %
VPT 42+95.00
EL = 440.65
VPC 43+30.00
EL = 441.66
(+)1.55 %
PVI 44+00.00
EL = 443.69
VPT 44+70.00
EL = 444.78
SSD = 869'
ex = -0.24'
K = 104
L = 140.00'
16'-10" MIN VERT CLR
SB 482 FRONTAGE ROAD (FRSB482)
SPUR 482 (BL482)
BEGIN BRIDGE
STA 45+44.00
El 445.92'
VPC 45+35.00
EL = 445.78
PVI 47+10.00
EL = 448.50
(+)1.55 %
(-)1.41 %
PROPOSED GRADE
NB 482 FRONTAGE ROAD (FRNB482)
SSD = 539'
ex = -1.30'
K = 118
L = 350.00'
VPT 48+85.00
EL = 446.02
16'-8" MIN VERT CLR
16'-11" MIN VERT CLR
EXISTING GROUND @ PGL
END BRIDGE
STA 49+34.00
EL 445.35'
END PROFILE
STA 49+50.00, EL 445.10 = BL114WB STA 1057+93.96, 72.86' LT
NORMAL CROWN (+2.00%)
STA 47+84.00
+2.03%
+2.43%
STA 49+50.00
TRANSITION FROM NORMAL CROWN (+2.00%) TO (+3.37%)
490
480
470
460
450
440
430
420
410
15+00
20+00
25+00
30+00
35+00
40+00
45+00
50+00
426.30
427.46
428.81
430.35
432.08
434.00
435.82
437.36
438.60
439.55
440.21
440.71
441.43
442.41
443.62
445.09
446.79
448.56
450.31
451.90
453.23
454.31
455.14
455.89
456.57
455.83
455.07
454.11
452.83
451.24
449.49
447.74
445.99
444.24
442.59
441.25
440.22
439.50
439.10
439.01
439.22
439.50 431.42
439.39 430.78
438.89 430.33
438.09 429.74
437.54 428.24
437.30 430.48
437.37 431.33
437.76 429.07
438.46 426.38
439.47 426.79
440.79 426.52
442.22 426.44
443.45 426.55
444.45 426.05
445.24 425.96
446.01 426.13
446.61 426.15
447.01 426.23
447.19 425.93
447.16 426.00
446.92 426.48
446.46 425.49
445.81 431.26
445.10 433.27
434.36
436.36
438.69
438.33
429.97
426.17


DIRECT CONECTOR (DE83S12)
FROM EB SH 183 TO SB LOOP 12
BEGIN PROFILE
STA 1098+68.28, EL 536.06 = DE83N12 STA 27+83.50, 31.70' RT
BEGIN BRIDGE
STA 1098+70.79
EL 536.16
PROPOSED GRADE
PVI 1103+97.00
EL = 555.45
(+)3.67 %
(-)5.00 %
VPC 1099+97.00
EL = 540.78'
✱19'-5" MIN VERT CLR
ex = -8.67'
K = 92
L = 800.00'
18'-8" MIN ✱ VERT CLR
EB SH 183 FRONTAGE ROAD (FREB183)
SB LOOP12 FRONTAGE ROAD (FRSB12)
RAMP SB EXIT FROM LOOP 12 TO GRAUWYLER RD (RSXGRA)
✱MINIMUM VERTICAL CLEARANCE TO BENT CAP
VPT 1107+97.00
EL 535.45
(-)5.00%
VPC 1109+67.00
EL 526.95
ex = 7.71'
K = 143
L = 940.00'
PROPOSED GRADE
END BRIDGE
STA 1112+95.00
EL 514.30
✱18'-2" MIN VERT CLR
EXISTING GROUND @ PGL
(-)5.00%
(+)1.56%
PVI 1114+37.00
EL 503.45
PROPOSED GRADE
VPT 1119+07.00
EL 510.77
END PROFILE
STA 1119+77.21, EL 511.87 = BL12SB STA 1368+84.20, 78.01' LT
(+)1.56%
EXISTING GROUND @ PGL
STA 1098+66.56
+4.01%
-1.81%
-2.08%
-4.98%
STA 1101+02.08
TRANSITION FROM (+4.43%) TO (-6.00%)
FULL SUPER (-6.00%)
STA 1107+10.00
-5.25%
-3.51%
STA 1108+15.00
TRANSITION FROM (-6.00%) TO (-3.40%)
FULL SUPER (-3.40%)
STA 1113+00.00
-3.09%
-2.31%
STA 1114+50.00
TRANSITION FROM (-3.40%) TO NORMAL CROWN
NORMAL CROWN (-2.00%)
550
540
530
520
510
500
490
480
1100+00
1105+00
1110+00
1115+00
500.1
499.8
499.5
499.0
537.23 498.6
539.06 498.3
540.89 498.1
542.57 498.4
543.98 498.4
545.12 498.3
545.99 498.0
546.59 497.5
546.92 499.2
546.97 499.3
546.76 499.3
546.28 498.7
545.52 498.8
544.49 499.1
543.19 499.3
541.63 498.1
539.79 496.7
537.68 496.7
535.30 497.1
532.80 497.9
530.30 498.1
527.80 498.0
525.33 497.9
523.04 497.3
520.91 496.8
518.97 496.1
517.19 495.0
515.59 494.9
514.17 495.2
512.91 495.4
511.84 495.6
510.94 494.8
510.21 495.0
509.65 494.8
509.28 495.0
509.07 494.7
509.04 495.1
509.18 495.4
509.50 496.0
510.00 496.8
510.66 497.5
511.44 498.2
499.4
500.4


DIRECT CONECTOR (DE83N82)
FROM EB SH 183 TO NB SPUR 482
BEGIN PROFILE
VPC 1117+49.00
EL = 469.64 = 183EBML STA 486+53.93 122.21' RT
ex = 4.34'
K = 79
L = 525.00'
PROPOSED GRADE
BEGIN BRIDGE
STA 1121+70.00
EL 469.81'
(-)2.61 %
(+)4.00 %
PVI 1120+11.50
EL = 462.79
EXISTING GROUND
VPT 1122+74.00
EL = 473.29
VPC 1122+75.00
EL = 473.33
PVI 1123+90.00
EL = 477.93
(+)4.00 %
(+)0.30 %
ex = 0.36'
K = 79
L = 150.00'
VPC 1125+05.00
EL = 478.27
VPT 1125+05.00
EL = 478.27
PVI 1125+80.00
EL = 478.50
VPT 1126+55.00
EL = 480.14
(+)2.19 %
(+)2.19 %
SSD = 407'
ex = -1.06'
K = 62
L = 230.00'
✱19'-2" MIN VERT CLR
EB SH 183 MAIN LANES (EB183GP)
✱16'-8" MIN VERT CLR
PVI 1128+50.00
EL = 484.42
(-)0.50 %
VPC 1127+50.00
EL = 482.23
VPT 1129+50.00
EL = 483.93
SSD = 501'
ex = -0.67'
K = 74
L = 200.00'
16'-11" MIN VERT CLR
SB SPUR 482 FRANTAGE ROAD (FRSB482)
WB SH 183 MAIN LANES (WB183GP)
FROM WB 183 TO SB LOOP 12 (DW83S12)
PROPOSED GRADE
(-)0.50 %
END PROFILE
END BRIDGE
STA 1135+69.00
EL 480.86' = BL482 STA 1135+68.25
35.00' RT
✱MINIMUM VERTICAL CLEARANCE TO BENT CAP
NORMAL CROWN (-2.00%)
STA 1119+85.00
-1.62%
-0.81%
+0.46%
+2.17%
+3.80%
+4.99%
+5.72%
+6.00%
STA 1124+06.00
TRANSITION FROM (-2.00%) TO (+6.00%)
FULL SUPER (+6.00%)
STA 1126+94.00
+5.70%
+4.94%
+3.71%
+2.00%
+0.29%
-0.94%
-1.70%
-2.00%
STA 1131+06.00
TRANSITION FORM (+6.00%) TO (-2.00%)
NORMAL CROWN (-2.00%)
490
480
470
460
450
440
430
420
1120+00
1125+00
1130+00
1135+00
474.19
469.61 473.44
468.47 472.68
467.65 471.66
467.13 470.08
466.84 467.95
467.05 465.26
467.49 462.03
468.23 458.25
469.30 456.23
470.67 454.77
472.36 452.57
474.28 450.03
475.88 447.30
477.07 444.07
477.86 442.07
478.26 442.14
478.54 443.40
479.13 445.16
480.04 444.18
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482.23 442.31
483.16 441.51
483.75 439.58
484.01 437.99
483.93 436.83
483.68 435.14
483.43 433.34
483.19 436.26
482.94 443.28
482.69 441.13
482.44 436.13
482.20 434.82
481.95 432.86
481.70 431.95
481.45 431.35
481.20 430.58
480.96 430.45
429.51
428.74

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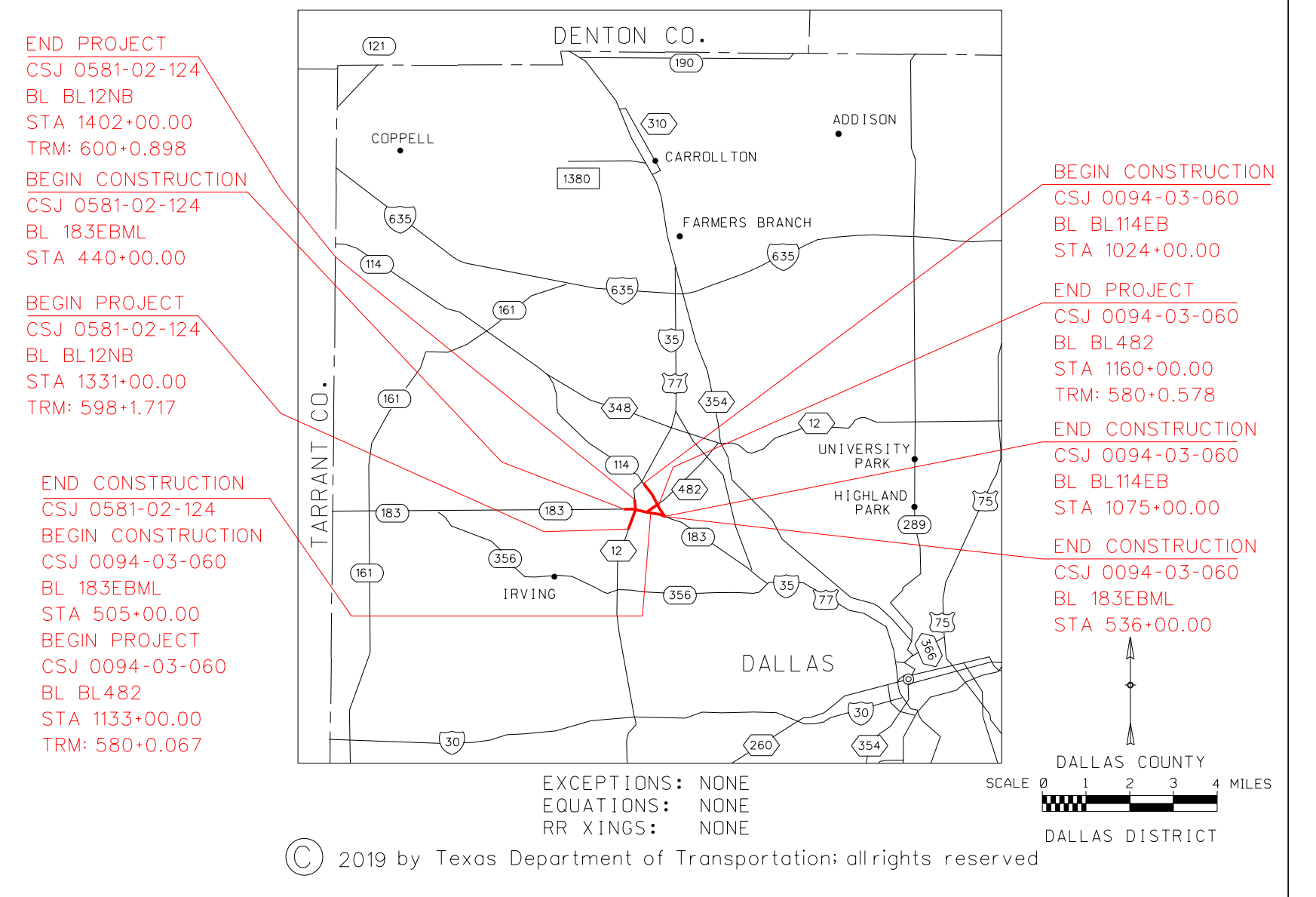
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DALLAS DISTRICT

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Roll: 9 of 9
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