# TEXAS DEPARTMENT OF TRANSPORTATION®

DALLAS DISTRICT
CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

# DESIGN SCHEMATIC
# US 380 FARMERSVILLE

## COLLIN COUNTY, TEXAS

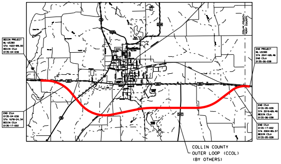
| CSJ: | FROM | TO |
|---|---|---|
| 0135-04-038: | CR 560 | JCT US 380/AUDIE MURPHY (WEST OF FARMERSVILLE) |
| 0135-17-002: | JCT US 380/AUDIE MURPHY (WEST OF FARMERSVILLE) | WEST OF CR 698 (COLLIN/HUNT COUNTY LINE) |
| 0135-05-028: | WEST OF CR 698 (COLLIN/HUNT COUNTY LINE) | CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) |
| 0135-06-038: | CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) | E OF CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) |

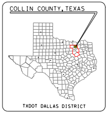
APRIL 2023

ROLL 7 OF 10

| | |
|---|---|
| LENGTH: | 7.6 MILES (ULTIMATE)<br>7.9 MILES (ULTIMATE & INTERIM TRANSITION) |
| FUNCTIONAL CLASS: | INTERSTATE |
| DESIGN SPEEDS (MINIMUM) | |
| MAIN LANES: | 70 MPH |
| RAMPS: | 45 MPH |
| FRONTAGE ROAD: | 40 MPH |
| CR 696 - MAJOR COLLECTOR: | 60 MPH |
| HAMILTON/MAIN (FUTURE) MAJOR COLLECTOR: | 50 MPH |
| SH 78 - PRINCIPAL ARTERIAL: | 45 MPH |
| FM 547 - PRINCIPAL ARTERIAL: | 40 MPH |
| CR 560/W-BUS380 - MAJOR ARTERIAL: | 40 MPH |
| CRs 607N, 607S, 609N, 609S, 697N, 697S LOCAL: | 40 MPH |
| AUDIE MURPHY (CR 567) AND AUDIE MURPHY PARKWAY (AMP) (EAST END) PRINCIPAL ARTERIAL: | 30 MPH |
| CR 699/CR 698 - MAJOR ARTERIAL: | 30 MPH |
| OLD JOSEPHINE (CR 648) MINOR COLLECTOR: | 30 MPH |
| EB AUDIE MURPHY TO WB FRONTAGE LOCAL ACCESS - LOCAL: | 25 MPH |

HIGHWAY CLASSIFICATION
URBAN FREEWAY


BEGIN PROJECT
ML-US380
STA 1622+89.00
BEGIN CSJ:
0135-04-038
END CSJ:
0135-04-038
STA 1670+24.34
BEGIN CSJ:
0135-17-002
COLLIN COUNTY
HUNT COUNTY
END PROJECT
ML-US380
STA 2041+69.46
END CSJ:
0135-06-038
END CSJ:
0135-05-028
STA 2016+69.46
BEGIN CSJ:
0135-06-038
END CSJ:
0135-17-002
STA 2004+80.57
BEGIN CSJ:
0135-05-028
380
547
COLLIN COUNTY
OUTER LOOP (CCOL)
(BY OTHERS)


COLLIN COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

DATE: APRIL 21, 2023
PREPARED BY HNTB
UNDER THE SUPERVISION OF:
NICOLE M. CARRILLO, P.E.
Nicole Carrillo
SERIAL NO. 101321

CHELSEA BOWEN
Chelsea Bowen
SERIAL NO. 113553

HNTB
HNTB Corporation
The HNTB Companies
Firm Registration Number F-420
Engineers Architects Planners

0 10 20 30 40
VERTICAL SCALE:

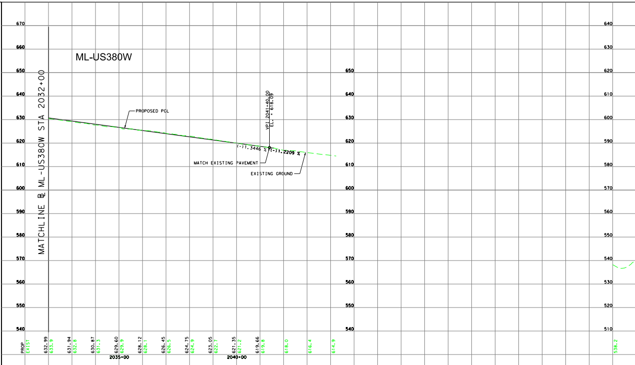
DATE SUBMITTED:

0 100 200 300 400
HORIZONTAL SCALE:

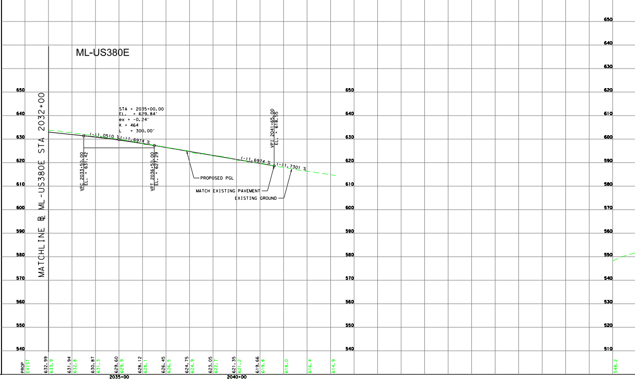
DATE APPROVED:

© 2023 by Texas Department of Transportation all rights reserved

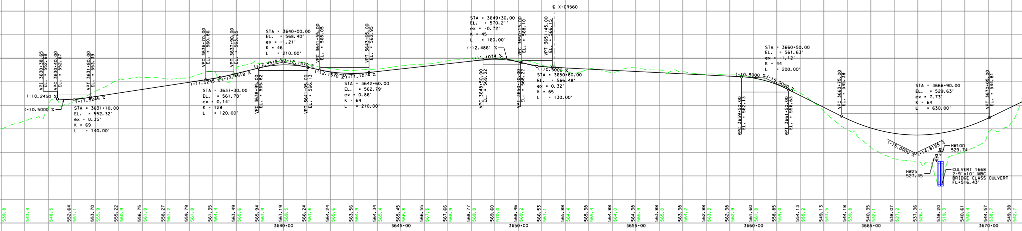
## ML-US380W


MATCHLINE ℄ ML-US380W STA 2032+00
PROPOSED PGL
VPI 2041+40.00
EL. = 618.09
(-)1.3446 %
(-)1.2209 %
MATCH EXISTING PAVEMENT
EXISTING GROUND
670
660
650
640
630
620
610
600
590
580
570
560
550
540
650
640
630
620
610
600
590
580
570
560
550
540
640
630
620
610
600
590
580
570
560
550
540
530
520
510
PROP
EXIST
632.99
633.9
631.94
632.8
630.87
631.3
629.60
629.9
628.12
628.1
626.45
626.5
624.75
624.9
623.05
622.7
621.35
621.2
619.66
619.8
618.0
616.4
614.9
538.2
2035+00
2040+00

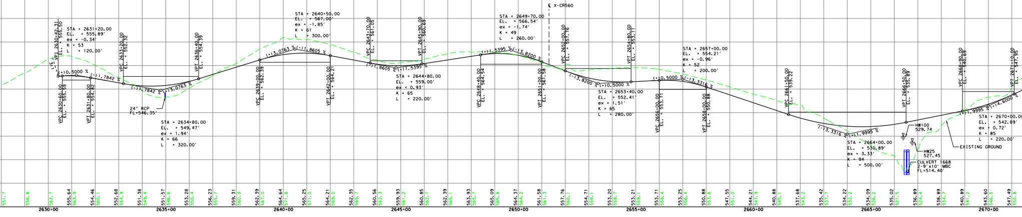
## ML-US380E

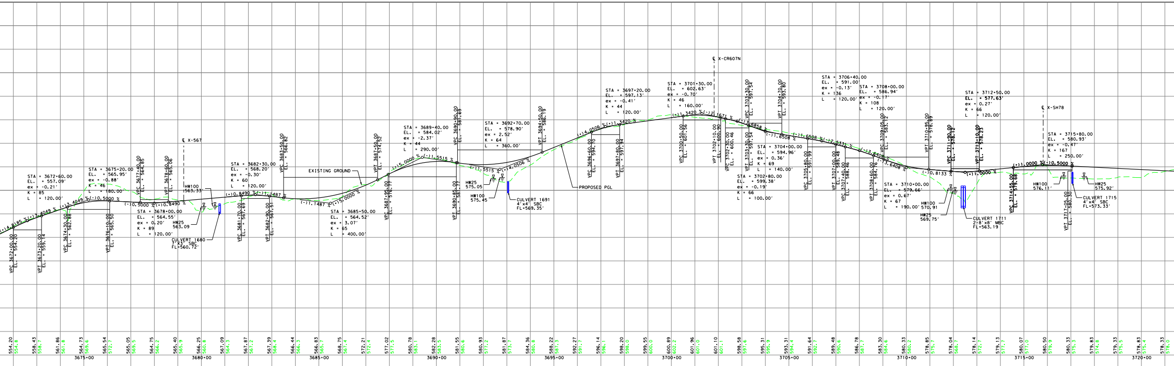

MATCHLINE ℄ ML-US380E STA 2032+00
STA = 2035+00.00
EL. = 629.84'
ex = -0.24'
K = 464
L = 300.00'
(-)1.0510 %
(-)1.6974 %
(-)1.6974 %
(-)1.7301 %
VPC 2033+50.00
EL. = 631.42
VPT 2036+50.00
EL. = 627.29
VPI 2041+65.00
EL. = 618.55
PROPOSED PGL
MATCH EXISTING PAVEMENT
EXISTING GROUND
650
640
630
620
610
600
590
580
570
560
550
540
650
640
630
620
610
600
590
580
570
560
550
540
650
640
630
620
610
600
590
580
570
560
550
540
530
520
510
PROP
EXIST
632.99
633.9
631.94
632.8
630.87
631.3
629.60
629.9
628.12
628.1
626.45
626.5
624.75
624.9
623.05
622.7
621.35
621.2
619.66
619.8
618.0
616.4
614.9
548.2
2035+00
2040+00

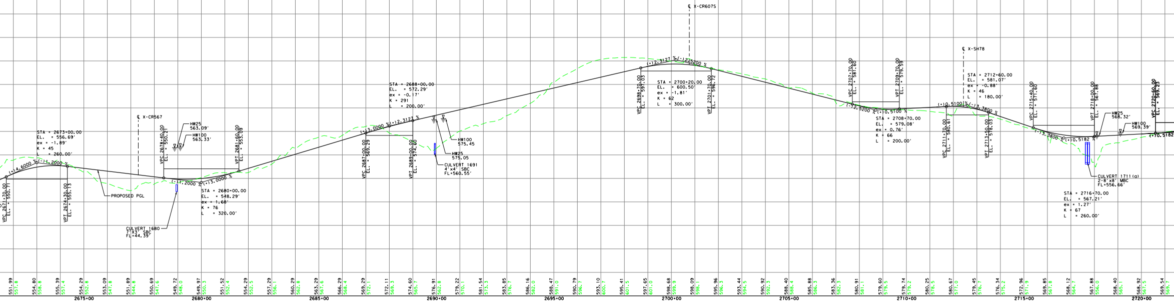
W-FR

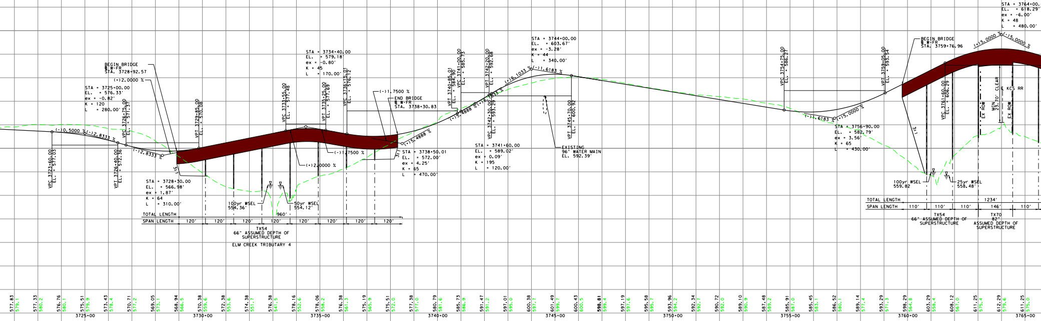

VPI 3630+38.65 EL. = 552.68
VPC 3630+40.00 EL. = 552.67
VPT 3631+80.00 EL. = 553.39
(-)0.2450 %
(-)0.5000 %
(+)1.5245 %
STA = 3631+10.00
EL. = 552.32'
ex = 0.35'
K = 69
L = 140.00'
VPC 3636+70.00 EL. = 560.86
VPT 3637+90.00 EL. = 563.25
(+)1.5245 %
(+)2.4518 %
STA = 3637+30.00
EL. = 561.78'
ex = 0.14'
K = 129
L = 120.00'
VPC 3638+95.00 EL. = 565.82
STA = 3640+00.00
EL. = 568.40'
ex = -1.21'
K = 46
L = 210.00'
(+)2.4518 %
(-)2.1570 %
VPT 3641+05.00 EL. = 566.13
VPC 3641+55.00 EL. = 565.05
(-)2.1570 %
(+)1.1074 %
STA = 3642+60.00
EL. = 562.79'
ex = 0.86'
K = 64
L = 210.00'
VPT 3643+65.00 EL. = 563.95
STA = 3649+30.00
EL. = 570.21'
ex = -0.72'
K = 45
L = 160.00'
(-)2.4861 %
(+)1.1074 %
VPC 3648+50.00 EL. = 569.32
VPC 3650+15.00 EL. = 568.10
VPT 3650+10.00 EL. = 568.22
VPT 3651+45.00 EL. = 566.15
℄ X-CR560
(-)0.5000 %
STA = 3650+80.00
EL. = 566.48'
ex = 0.32'
K = 65
L = 130.00'
STA = 3660+50.00
EL. = 561.63'
ex = -1.12'
K = 44
L = 200.00'
(-)0.5000 %
(-)5.0000 %
VPC 3659+50.00 EL. = 562.13
VPT 3661+50.00 EL. = 556.63
VPC 3663+75.00 EL. = 545.38
STA = 3666+90.00
EL. = 529.63'
ex = 7.73'
K = 64
L = 630.00'
VPT 3670+05.00 EL. = 544.81
(-)5.0000 %
(+)4.8185 %
HW100
529.74
HW25
527.45
CULVERT 1668
2-9'x10' MBC
BRIDGE CLASS CULVERT
FL=516.43'
539.8
543.4
548.5
552.64 551.1
553.70 555.9
555.22 560.9
556.75 561.8
558.27 561.2
559.79 561.8
561.35 564.4
563.49 565.6
565.94 567.9
567.19 569.5
566.24 567.6
564.24 565.6
563.56 564.9
564.34 565.4
565.45 566.8
566.55 567.5
567.66 568.9
568.77 569.8
569.60 570.0
568.46 569.2
566.53 567.1
565.88 564.4
565.38 565.4
564.88 564.0
564.38 565.9
563.88 565.0
563.38 564.2
562.88 563.3
562.38 562.9
561.60 561.8
558.85 559.0
554.13 555.2
549.13 547.5
544.18 539.8
540.35 532.1
538.07 527.2
537.36 526.1
538.20 519.3
540.61 530.4
544.57 538.7
549.38 542.7
3640+00
3645+00
3650+00
3655+00
3660+00
3665+00
3670+00

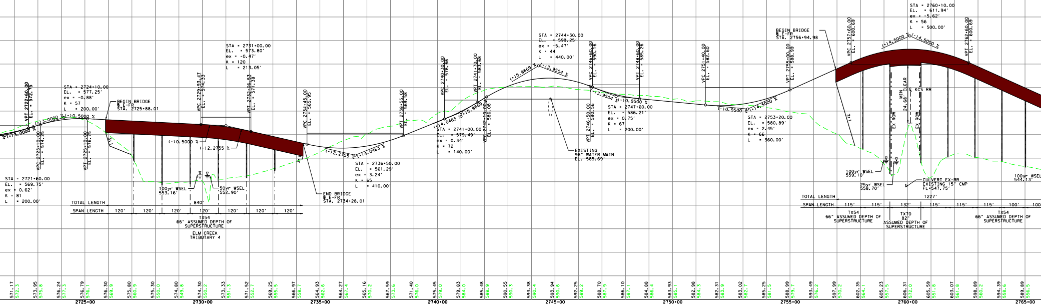
E-FR

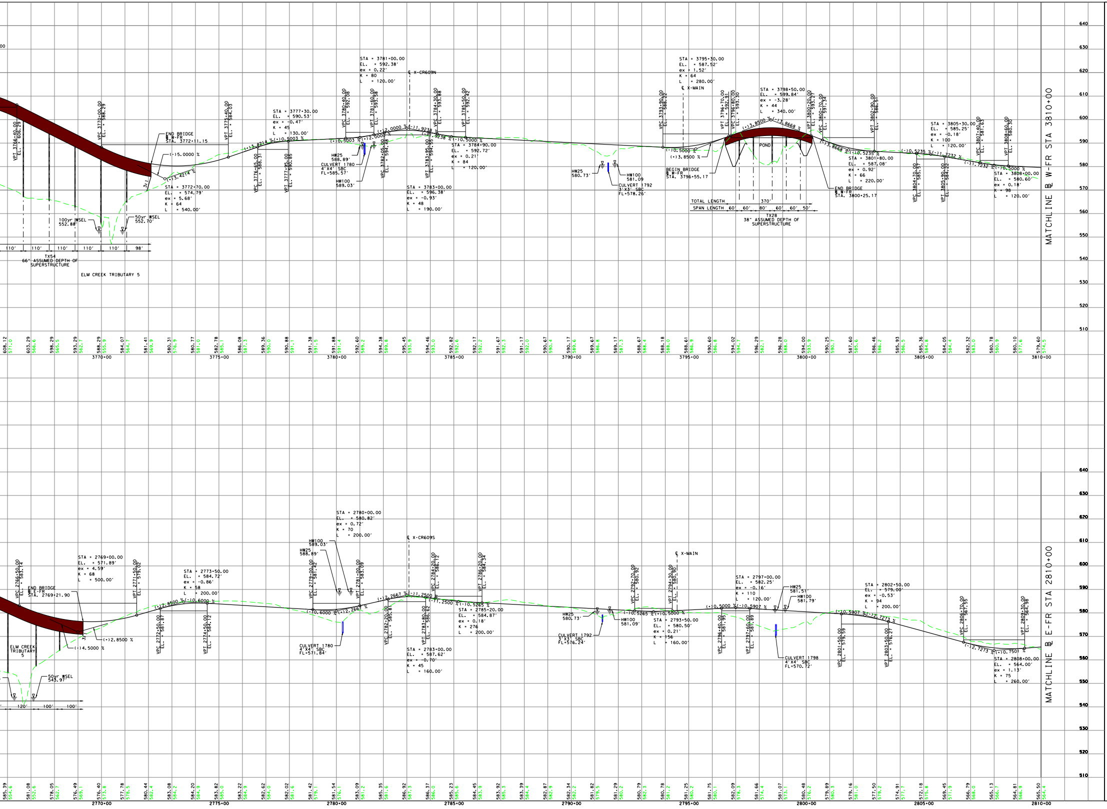

VPI 2630+42.31 EL. = 555.50
STA = 2631+20.00
EL. = 555.89'
ex = -0.34'
K = 53
L = 120.00'
3:1
(+)0.5000 %
(-)1.7842 %
VPC 2630+60.00 EL. = 555.59
VPT 2631+80.00 EL. = 554.82
VPC 2633+20.00 EL. = 552.32
VPT 2636+40.00 EL. = 554.39
(-)1.7842 %
(+)3.0763 %
24" RCP
FL=546.35'
STA = 2634+80.00
EL. = 549.47'
ex = 1.94'
K = 66
L = 320.00'
STA = 2640+50.00
EL. = 567.00'
ex = -1.85'
K = 61
L = 300.00'
(+)3.0763 %
(-)1.8605 %
VPC 2639+00.00 EL. = 562.39
VPT 2642+00.00 EL. = 564.21
VPC 2643+70.00 EL. = 561.05
VPT 2645+90.00 EL. = 560.69
(-)1.8605 %
(+)1.5395 %
STA = 2644+80.00
EL. = 559.00'
ex = 0.93'
K = 65
L = 220.00'
STA = 2649+70.00
EL. = 566.54'
ex = -1.74'
K = 49
L = 260.00'
(+)1.5395 %
(-)3.8200 %
℄ X-CR560
VPC 2648+40.00 EL. = 564.54
VPT 2651+00.00 EL. = 561.58
VPC 2652+00.00 EL. = 557.76
VPT 2654+80.00 EL. = 553.11
(-)3.8200 %
(+)0.5000 %
STA = 2653+40.00
EL. = 552.41'
ex = 1.51'
K = 65
L = 280.00'
STA = 2657+00.00
EL. = 554.21'
ex = -0.96'
K = 52
L = 200.00'
(+)0.5000 %
(-)3.3316 %
VPC 2656+00.00 EL. = 553.71
VPT 2658+00.00 EL. = 550.88
VPC 2661+50.00 EL. = 539.22
(-)3.3316 %
(+)1.9995 %
STA = 2664+00.00
EL. = 530.89'
ex = 3.33'
K = 94
L = 500.00'
VPT 2666+50.00 EL. = 535.89
HW100
529.74
HW25
527.45
CULVERT 1668
2-9'x10' MBC
FL=514.40'
EXISTING GROUND
VPC 2668+90.00 EL. = 540.69
VPT 2671+10.00 EL. = 547.95
(+)1.9995 %
(+)4.6000 %
STA = 2670+00.00
EL. = 542.89'
ex = 0.72'
K = 85
L = 220.00'
551.7
556.8
562.7
555.64 563.9
554.46 560.1
552.68 554.9
551.38 549.4
551.57 546.6
553.28 550.4
556.23 555.7
559.31 560.9
562.39 567.0
564.64 571.8
565.25 571.0
564.21 569.0
562.35 565.7
560.56 562.3
559.93 561.2
560.85 562.7
562.39 565.1
563.93 565.7
565.09 565.8
564.37 564.2
561.58 561.3
557.76 560.1
554.71 558.1
553.20 558.7
553.21 559.1
553.71 558.4
553.25 556.4
550.88 553.8
547.55 551.0
544.21 547.9
540.88 545.1
537.68 543.2
535.42 537.7
534.22 532.2
534.09 526.2
535.02 521.5
536.89 524.4
538.89 534.7
540.89 541.2
543.60 546.5
547.49 550.8
2630+00
2635+00
2640+00
2645+00
2650+00
2655+00
2660+00
2665+00
2670+00


STA = 3672+60.00
EL. = 557.09'
ex = -0.21'
K = 85
L = 120.00'
STA = 3675+20.00
EL. = 565.95'
ex = -0.88'
K = 46
L = 180.00'
STA = 3678+00.00
EL. = 564.55'
ex = 0.20'
K = 89
L = 120.00'
STA = 3682+30.00
EL. = 568.20'
ex = -0.30'
K = 60
L = 120.00'
STA = 3685+50.00
EL. = 564.52'
ex = 3.07'
K = 65
L = 400.00'
STA = 3689+40.00
EL. = 584.02'
ex = -2.37'
K = 44
L = 290.00'
STA = 3692+70.00
EL. = 578.90'
ex = 2.52'
K = 64
L = 360.00'
STA = 3697+20.00
EL. = 597.13'
ex = -0.41'
K = 44
L = 120.00'
STA = 3701+30.00
EL. = 602.63'
ex = -0.70'
K = 46
L = 160.00'
STA = 3702+80.00
EL. = 599.38'
ex = -0.19'
K = 66
L = 100.00'
STA = 3704+00.00
EL. = 594.96'
ex = 0.36'
K = 69
L = 140.00'
STA = 3706+40.00
EL. = 591.00'
ex = -0.13'
K = 136
L = 120.00'
STA = 3708+00.00
EL. = 586.94'
ex = -0.17'
K = 108
L = 120.00'
STA = 3710+00.00
EL. = 579.66'
ex = 0.67'
K = 67
L = 190.00'
STA = 3712+50.00
EL. = 577.63'
ex = 0.27'
K = 66
L = 120.00'
STA = 3715+80.00
EL. = 580.93'
ex = -0.47'
K = 167
L = 250.00'
VPC 3672+00.00 EL. = 554.20
VPT 3673+20.00 EL. = 559.14
VPC 3674+30.00 EL. = 562.88
VPT 3676+10.00 EL. = 565.50
VPC 3677+40.00 EL. = 564.85
VPT 3678+60.00 EL. = 565.06
VPC 3681+70.00 EL. = 567.69
VPT 3682+90.00 EL. = 567.51
VPC 3683+50.00 EL. = 566.82
VPT 3687+50.00 EL. = 574.52
VPC 3687+95.00 EL. = 576.77
VPC 3690+90.00 EL. = 581.69
VPT 3690+85.00 EL. = 581.77
VPT 3694+50.00 EL. = 586.19
VPC 3696+60.00 EL. = 594.70
VPT 3697+80.00 EL. = 597.94
VPC 3700+50.00 EL. = 601.56
VPT 3702+10.00 EL. = 600.90
VPC 3702+30.00 EL. = 600.46
VPC 3703+30.00 EL. = 597.54
VPT 3703+30.00 EL. = 597.54
VPT 3704+70.00 EL. = 593.80
VPC 3705+80.00 EL. = 591.99
VPT 3707+00.00 EL. = 589.48
VPC 3707+40.00 EL. = 588.46
VPT 3708+60.00 EL. = 584.76
VPC 3709+05.00 EL. = 583.12
VPT 3710+95.00 EL. = 578.89
VPC 3711+90.00 EL. = 578.12
VPT 3713+10.00 EL. = 578.23
VPC 3714+55.00 EL. = 579.68
VPT 3717+05.00 EL. = 580.30
(+)4.8185 %
(+)3.4049 %
(+)3.4049 %
(-)0.5000 %
(-)0.5000 %
(+)0.8490 %
(+)0.8490 %
(-)1.1487 %
(-)1.1487 %
(+)5.0000 %
(+)5.0000 %
(-)1.5515 %
(-)1.5515 %
(+)4.0506 %
(+)4.0506 %
(+)1.3420 %
(+)1.3420 %
(-)2.1671 %
(-)3.6858 %
(-)1.6508 %
(-)1.6508 %
(-)2.5331 %
(-)3.6408 %
(-)3.6408 %
(-)0.8133 %
(+)1.0000 %
(+)1.0000 %
(-)0.5000 %
℄ X-567
℄ X-CR607N
℄ X-SH78
EXISTING GROUND
PROPOSED PGL
HW100 563.33'
HW25 563.09
CULVERT 1680
7'X3' SBC
FL=560.72'
HW25 575.05
HW100 575.45
CULVERT 1691
4'x4' SBC
FL=569.35'
HW100 570.91
HW25 569.75'
CULVERT 1711
2-8'x8' MBC
FL=563.19
HW100 576.11'
HW25 575.92'
CULVERT 1715
4'x4' SBC
FL=573.33'
554.20 554.8
558.43 558.7
561.86 561.8
564.73 569.6
565.54 572.7
565.05 569.5
564.75 566.2
565.40 565.9
566.25 560.8
567.09 564.3
567.87 567.2
567.39 568.4
566.44 566.3
566.83 565.7
568.75 567.4
572.21 572.4
577.02 577.5
580.78 583.1
582.28 583.5
581.55 580.6
580.93 577.2
581.87 573.7
584.36 580.8
588.22 587.3
592.27 591.7
596.14 596.1
598.20 598.0
599.55 600.0
600.89 602.2
601.96 601.0
601.10 601.1
598.58 597.6
595.31 595.9
593.31 594.4
591.64 592.7
589.48 590.6
586.78 587.7
583.30 584.6
580.33 580.2
578.85 575.7
578.04 568.7
578.14 572.7
579.13 577.7
580.07 577.0
580.50 579.9
580.33 575.3
579.83 574.8
579.33 575.5
578.83 575.4
578.33 578.0
3675+00
3680+00
3685+00
3690+00
3695+00
3700+00
3705+00
3710+00
3715+00
3720+00


STA = 2673+00.00
EL. = 556.69'
ex = -1.89'
K = 45
L = 260.00'
STA = 2680+00.00
EL. = 548.29'
ex = 1.68'
K = 76
L = 320.00'
STA = 2688+00.00
EL. = 572.29'
ex = -0.17'
K = 291
L = 200.00'
STA = 2700+20.00
EL. = 600.50'
ex = -1.81'
K = 62
L = 300.00'
STA = 2708+70.00
EL. = 579.08'
ex = 0.76'
K = 66
L = 200.00'
STA = 2712+60.00
EL. = 581.07'
ex = -0.88'
K = 46
L = 180.00'
STA = 2716+70.00
EL. = 567.21'
ex = 1.27'
K = 67
L = 260.00'
VPC 2671+70.00 EL. = 550.71
VPT 2674+30.00 EL. = 555.13
VPC 2678+40.00 EL. = 550.21
VPT 2681+60.00 EL. = 553.09
VPC 2687+00.00 EL. = 569.29
VPT 2689+00.00 EL. = 574.60
VPC 2698+70.00 EL. = 597.03
VPT 2701+70.00 EL. = 596.72
VPC 2707+70.00 EL. = 581.60
VPT 2709+70.00 EL. = 579.59
VPC 2711+70.00 EL. = 580.61
VPT 2713+50.00 EL. = 578.03
VPC 2715+40.00 EL. = 571.60
VPT 2718+00.00 EL. = 567.88
VPC 2720+60.00 EL. = 569.23
(+)4.6000 %
(-)1.2000 %
(-)1.2000 %
(+)3.0000 %
(+)3.0000 %
(+)2.3127 %
(+)2.3127 %
(-)2.5200 %
(-)2.5200 %
(+)0.5100 %
(+)0.5100 %
(-)3.3800 %
(-)3.3800 %
(+)0.5182 %
(+)0.5182
℄ X-CR567
℄ X-CR607S
℄ X-SH78
PROPOSED PGL
HW25 563.09'
HW100 563.33'
CULVERT 1680
7'X3' SBC
FL=44.39'
HW100 575.45
HW25 575.05
CULVERT 1691
4'x4' SBC
FL=560.55'
HW25 568.32'
HW100 569.39'
CULVERT 1711(a)
2-8'x8' MBC
FL=556.66'
551.99 557.8
554.80 558.8
555.39 557.4
554.29 552.8
553.09 547.8
551.89 544.8
550.69 547.6
549.72 548.0
549.97 550.3
551.52 552.4
554.29 552.5
557.29 556.1
560.29 562.8
563.29 567.6
566.29 568.4
569.29 572.1
572.11 569.3
574.60 565.7
576.91 562.8
579.22 570.1
581.54 573.3
583.85 576.7
586.16 582.0
588.47 591.0
590.79 596.7
593.10 600.7
595.41 601.5
597.65 601.0
598.68 599.9
598.09 598.1
595.96 596.3
593.44 594.5
590.92 592.3
588.40 588.4
585.88 586.3
583.36 582.3
580.91 581.1
579.60 579.5
579.74 579.2
580.25 578.5
580.67 577.0
579.45 576.7
576.34 575.2
572.96 571.9
569.85 567.8
568.12 564.7
567.88 556.0
568.40 565.1
568.92 567.5
569.54 569.7
2675+00
2680+00
2685+00
2690+00
2695+00
2700+00
2705+00
2710+00
2715+00
2720+00


BEGIN BRIDGE
℄ W-FR
STA. 3728+92.57
(+)2.0000 %
STA = 3725+00.00
EL. = 576.33'
ex = -0.82'
K = 120
L = 280.00'
VPC 3726+75.00
EL. = 571.37
VPT 3729+85.00
EL. = 570.08
(-)0.5000 %
(-)2.8333 %
(-)2.8333 %
VPC 3723+60.00
EL. = 577.03
VPT 3726+40.00
EL. = 572.36
3:1
STA = 3728+30.00
EL. = 566.98'
ex = 1.87'
K = 64
L = 310.00'
100yr WSEL
554.36'
50yr WSEL
554.12'
TOTAL LENGTH
960'
SPAN LENGTH
120'
120'
120'
120'
120'
120'
120'
120'
TX54
66" ASSUMED DEPTH OF
SUPERSTRUCTURE
ELM CREEK TRIBUTARY 4
STA = 3734+40.00
EL. = 579.18'
ex = -0.80'
K = 45
L = 170.00'
VPC 3733+55.00
EL. = 577.48
VPT 3735+25.00
EL. = 577.69
VPC 3736+15.01
EL. = 576.12
(-)1.7500 %
(+)2.0000 %
(-)1.7500 %
END BRIDGE
℄ W-FR
STA. 3738+30.83
3:1
(+)5.4888 %
STA = 3738+50.01
EL. = 572.00'
ex = 4.25'
K = 65
L = 470.00'
VPT 3740+85.01
EL. = 584.90
VPC 3741+00.00
EL. = 585.73
(+)5.4888 %
(+)6.1033 %
VPT 3742+20.00
EL. = 592.68
VPC 3742+30.00
EL. = 593.29
STA = 3741+60.00
EL. = 589.02'
ex = 0.09'
K = 195
L = 120.00'
STA = 3744+00.00
EL. = 603.67'
ex = -3.28'
K = 44
L = 340.00'
(+)6.1033 %
(-)1.6183 %
VPT 3745+70.00
EL. = 600.92
EXISTING
96" WATER MAIN
EL. 592.39'
VPC 3754+75.00
EL. = 586.27
(-)1.6183 %
(+)5.0000 %
STA = 3756+90.00
EL. = 582.79'
ex = 3.56'
K = 65
L = 430.00'
VPT 3759+05.00
EL. = 593.54
BEGIN BRIDGE
℄ W-FR
STA. 3759+76.96
3:1
VPC 3761+60.00
EL. = 606.29
EX ROW
MIN 23.70' CLEAR
℄ KCS RR
EX ROW
STA = 3764+00.00
EL. = 618.29'
ex = -6.00'
K = 48
L = 480.00'
(+)5.0000 %
(-)5.0000 %
100yr WSEL
559.82
25yr WSEL
558.48'
TOTAL LENGTH
1234'
SPAN LENGTH
110'
110'
110'
146'
110'
TX54
66" ASSUMED DEPTH OF
SUPERSTRUCTURE
TX70
82"
ASSUMED DEPTH OF
SUPERSTRUCTURE
577.83
579.1
577.33
580.2
576.76
580.1
575.51
579.9
573.43
578.4
570.71
577.2
569.05
573.1
568.94
566.5
570.38
559.6
572.38
553.6
574.38
551.7
576.38
541.5
578.16
552.6
578.06
558.2
576.38
561.3
575.19
565.9
575.51
572.0
577.38
577.0
580.79
581.6
585.73
586.9
591.47
591.2
597.01
595.0
600.38
597.7
601.49
599.7
600.43
600.5
598.81
599.4
597.19
597.6
595.58
595.7
593.96
594.2
592.34
592.7
590.72
592.0
589.10
590.9
587.48
589.2
585.91
587.0
585.45
583.1
586.52
580.1
589.14
577.4
593.29
571.3
598.29
564.8
603.29
558.4
608.12
567.0
611.25
575.4
612.29
579.6
611.25
575.0
3725+00
3730+00
3735+00
3740+00
3745+00
3750+00
3755+00
3760+00
3765+00


VPT 2722+60.00
EL. = 572.75
(+)3.0000 %
(+)3.0000 %
(-)0.5000 %
STA = 2724+10.00
EL. = 577.25'
ex = -0.88'
K = 57
L = 200.00'
VPC 2723+10.00
EL. = 574.25
VPT 2725+10.00
EL. = 576.75
STA = 2721+60.00
EL. = 569.75'
ex = 0.62'
K = 81
L = 200.00'
BEGIN BRIDGE
℄ E-FR
STA. 2725+88.01
3:1
VPC 2729+93.47
EL. = 574.33
STA = 2731+00.00
EL. = 573.80'
ex = -0.47'
K = 120
L = 213.05'
VPT 2732+06.53
EL. = 571.38
(-)0.5000 %
(-)2.2755 %
100yr WSEL
553.16'
50yr WSEL
552.90'
TOTAL LENGTH
840'
SPAN LENGTH
120'
120'
120'
120'
120'
120'
120'
TX54
66" ASSUMED DEPTH OF
SUPERSTRUCTURE
ELM CREEK
TRIBUTARY 4
VPC 2734+45.00
EL. = 565.95
3:1
END BRIDGE
℄ E-FR
STA. 2734+28.01
(-)2.2755 %
(+)4.0463 %
STA = 2736+50.00
EL. = 561.29'
ex = 3.24'
K = 65
L = 410.00'
VPT 2738+55.00
EL. = 569.58
VPC 2740+30.00
EL. = 576.66
VPT 2741+70.00
EL. = 583.68
(+)4.0463 %
(+)5.9869 %
STA = 2741+00.00
EL. = 579.49'
ex = 0.34'
K = 72
L = 140.00'
VPC 2742+10.00
EL. = 586.08
STA = 2744+30.00
EL. = 599.25'
ex = -5.47'
K = 44
L = 440.00'
(+)5.9869 %
(-)3.9504 %
EXISTING
96" WATER MAIN
EL. 585.69'
VPC 2746+60.00
EL. = 590.16
VPT 2746+50.00
EL. = 590.56
(-)3.9504 %
(-)0.9500 %
STA = 2747+60.00
EL. = 586.21'
ex = 0.75'
K = 67
L = 200.00'
VPT 2748+60.00
EL. = 585.26
VPC 2751+40.00
EL. = 582.60
(-)0.9500 %
(+)4.5000 %
STA = 2753+20.00
EL. = 580.89'
ex = 2.45'
K = 66
L = 360.00'
VPT 2755+00.00
EL. = 588.99
BEGIN BRIDGE
℄ E-FR
STA. 2756+94.98
3:1
VPC 2757+60.00
EL. = 600.69
STA = 2760+10.00
EL. = 611.94'
ex = -5.62'
K = 56
L = 500.00'
(+)4.5000 %
(-)4.5000 %
VPT 2762+60.00
EL. = 600.69
MIN 24.68' CLEAR
℄ KCS RR
EX ROW
EX ROW
100yr WSEL
559.10'
25yr WSEL
558.70'
CULVERT EX-RR
EXISTING 15" CMP
FL=547.75'
100yr WSEL
544.13'
TOTAL LENGTH
1227'
SPAN LENGTH
115'
115'
132'
115'
115'
115'
100'
100
TX54
66" ASSUMED DEPTH OF
SUPERSTRUCTURE
TX70
82"
ASSUMED DEPTH OF
SUPERSTRUCTURE
TX54
66" ASSUMED DEPTH OF
SUPERSTRUCTURE
571.17
572.3
573.95
575.8
576.24
577.3
576.79
576.1
576.30
569.9
575.80
560.9
575.30
550.0
574.80
549.8
574.30
550.2
573.33
551.3
571.52
552.7
569.25
555.5
566.97
558.7
564.93
562.6
564.27
567.4
565.16
570.2
567.59
573.6
571.40
576.0
575.45
579.0
579.83
584.0
585.48
588.9
590.55
590.3
593.38
590.4
593.94
590.6
592.25
589.2
588.70
587.9
586.10
587.1
584.88
586.4
583.93
585.1
582.98
584.3
582.31
583.9
583.02
582.7
585.25
581.5
588.99
579.7
593.49
576.2
597.99
570.2
602.35
564.1
605.23
557.5
606.31
572.0
605.59
551.8
603.07
561.8
598.89
560.2
594.39
558.6
589.89
556.5
2725+00
2730+00
2735+00
2740+00
2745+00
2750+00
2755+00
2760+00
2765+00


MATCHLINE ℄ W-FR STA 3810+00
MATCHLINE ℄ E-FR STA 2810+00
END BRIDGE ℄ W-FR STA. 3772+11.15
BEGIN BRIDGE ℄ W-FR STA. 3796+55.17
END BRIDGE ℄ W-FR STA. 3800+25.17
END BRIDGE ℄ E-FR STA. 2769+21.90
TX54 66" ASSUMED DEPTH OF SUPERSTRUCTURE
TX28 38" ASSUMED DEPTH OF SUPERSTRUCTURE
ELM CREEK TRIBUTARY 5
TOTAL LENGTH 370'
SPAN LENGTH 60' 60' 80' 60' 60' 50'
POND
℄ X-CR609N
℄ X-CR609S
℄ X-MAIN
100yr WSEL 552.88'
50yr WSEL 552.70'
50yr WSEL 543.97'
CULVERT 1780 4'X4' SBC FL=585.57'
CULVERT 1780 4'X4' SBC FL=571.84'
CULVERT 1792 3'X3' SBC FL=578.26'
CULVERT 1792 3'X3' SBC FL=576.24'
CULVERT 1798 4'X4' SBC FL=570.72'
HW25 588.89'
HW100 589.03'
HW25 580.73'
HW100 581.09
HW25 581.51'
HW100 581.79'
STA = 3772+70.00 EL. = 574.79' ex = 5.68' K = 64 L = 540.00'
STA = 3777+30.00 EL. = 590.53' ex = -0.47' K = 45 L = 130.00'
STA = 3781+00.00 EL. = 592.38' ex = 0.22' K = 80 L = 120.00'
STA = 3783+00.00 EL. = 596.38' ex = -0.93' K = 48 L = 190.00'
STA = 3784+90.00 EL. = 592.72' ex = 0.21' K = 84 L = 120.00'
STA = 3795+30.00 EL. = 587.52' ex = 1.52' K = 64 L = 280.00'
STA = 3798+50.00 EL. = 599.84' ex = -3.28' K = 44 L = 340.00'
STA = 3801+80.00 EL. = 587.08' ex = 0.92' K = 66 L = 220.00'
STA = 3805+30.00 EL. = 585.25' ex = -0.18' K = 100 L = 120.00'
STA = 3808+00.00 EL. = 580.60' ex = 0.18' K = 98 L = 120.00'
STA = 2769+00.00 EL. = 571.89' ex = 4.59' K = 68 L = 500.00'
STA = 2773+50.00 EL. = 584.72' ex = -0.86' K = 58 L = 200.00'
STA = 2780+00.00 EL. = 580.82' ex = 0.72' K = 70 L = 200.00'
STA = 2783+00.00 EL. = 587.62' ex = -0.70' K = 45 L = 160.00'
STA = 2785+20.00 EL. = 584.87' ex = 0.18' K = 276 L = 200.00'
STA = 2793+50.00 EL. = 580.50' ex = 0.21' K = 156 L = 160.00'
STA = 2797+00.00 EL. = 582.25' ex = -0.16' K = 110 L = 120.00'
STA = 2802+50.00 EL. = 579.00' ex = -0.53' K = 94 L = 200.00'
STA = 2808+00.00 EL. = 564.00' ex = 1.13' K = 75 L = 260.00'
(-)5.0000 %
(+)3.4214 %
(+)2.8500 %
(-)4.5000 %
3770+00 3775+00 3780+00 3785+00 3790+00 3795+00 3800+00 3805+00 3810+00
2770+00 2775+00 2780+00 2785+00 2790+00 2795+00 2800+00 2805+00 2810+00
640 630 620 610 600 590 580 570 560 550 540 530 520 510

TEXAS DEPARTMENT OF TRANSPORTATION®

DALLAS DISTRICT

CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

# DESIGN SCHEMATIC
# US 380 FARMERSVILLE

## COLLIN COUNTY, TEXAS

| CSJ: | FROM | TO |
|---|---|---|
| 0135-04-038: | CR 560 | JCT US 380/AUDIE MURPHY (WEST OF FARMERSVILLE) |
| 0135-17-002: | JCT US 380/AUDIE MURPHY (WEST OF FARMERSVILLE) | WEST OF CR 698 (COLLIN/HUNT COUNTY LINE) |
| 0135-05-028: | WEST OF CR 698 (COLLIN/HUNT COUNTY LINE) | CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) |
| 0135-06-038: | CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) | E OF CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) |

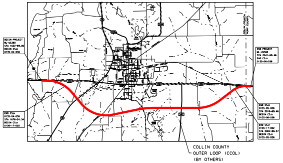
APRIL 2023

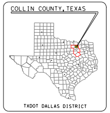
ROLL 7 OF 10

| | |
|---|---|
| LENGTH: | 7.6 MILES (ULTIMATE)<br>7.9 MILES (ULTIMATE & INTERIM TRANSITION) |
| FUNCTIONAL CLASS: | INTERSTATE |
| DESIGN SPEEDS (MINIMUM) | |
| MAIN LANES: | 70 MPH |
| RAMPS: | 45 MPH |
| FRONTAGE ROAD: | 40 MPH |
| CR 696 - MAJOR COLLECTOR: | 60 MPH |
| HAMILTON/MAIN (FUTURE) MAJOR COLLECTOR: | 50 MPH |
| SH 78 - PRINCIPAL ARTERIAL: | 45 MPH |
| FM 547 - PRINCIPAL ARTERIAL: | 40 MPH |
| CR 560/W-BUS380 - MAJOR ARTERIAL: | 40 MPH |
| CRs 607N, 607S, 609N, 609S, 697N, 697S LOCAL: | 40 MPH |
| AUDIE MURPHY (CR 567) AND AUDIE MURPHY PARKWAY (AMP) (EAST END) PRINCIPAL ARTERIAL: | 30 MPH |
| CR 699/CR 698 - MAJOR ARTERIAL: | 30 MPH |
| OLD JOSEPHINE (CR 648) MINOR COLLECTOR: | 30 MPH |
| EB AUDIE MURPHY TO WB FRONTAGE LOCAL ACCESS - LOCAL: | 25 MPH |

HIGHWAY CLASSIFICATION

URBAN FREEWAY


BEGIN PROJECT
END PROJECT
COLLIN COUNTY OUTER LOOP (CCOL) (BY OTHERS)


COLLIN COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP

N.T.S.

0 10 20 30 40

VERTICAL SCALE:

0 100 200 300 400

HORIZONTAL SCALE:

DATE: APRIL 21, 2023
PREPARED BY HNTB
UNDER THE SUPERVISION OF:

NICOLE M. CARRILLO, P.E.
Nicole Carrillo
SERIAL NO. 101321

CHELSEA BOWEN
Chelsea Bowen
SERIAL NO. 113553

HNTB

HNTB Corporation
The HNTB Companies
Firm Registration Number F-420
Engineers Architects Planners

DATE SUBMITTED:

DATE APPROVED:

© 2023 by Texas Department of Transportation all rights reserved

**TEXAS DEPARTMENT OF TRANSPORTATION®**

DALLAS DISTRICT

CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

# DESIGN SCHEMATIC
# US 380 FARMERSVILLE

COLLIN COUNTY, TEXAS

| CSJ: | FROM | TO |
|---|---|---|
| 0135-04-038: | CR 560 | JCT US 380/AUDIE MURPHY (WEST OF FARMERSVILLE) |
| 0135-17-002: | JCT US 380/AUDIE MURPHY (WEST OF FARMERSVILLE) | WEST OF CR 698 (COLLIN/HUNT COUNTY LINE) |
| 0135-05-028: | WEST OF CR 698 (COLLIN/HUNT COUNTY LINE) | CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) |
| 0135-06-038: | CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) | E OF CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) |

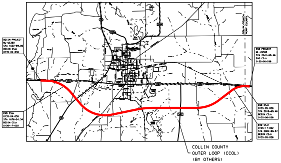
APRIL 2023

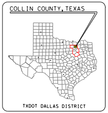
ROLL 8 OF 10

| | |
|---|---|
| LENGTH: | 7.6 MILES (ULTIMATE)<br>7.9 MILES (ULTIMATE & INTERIM TRANSITION) |
| FUNCTIONAL CLASS: | INTERSTATE |
| DESIGN SPEEDS (MINIMUM) | |
| MAIN LANES: | 70 MPH |
| RAMPS: | 45 MPH |
| FRONTAGE ROAD: | 40 MPH |
| CR 696 - MAJOR COLLECTOR: | 60 MPH |
| HAMILTON/MAIN (FUTURE) MAJOR COLLECTOR: | 50 MPH |
| SH 78 - PRINCIPAL ARTERIAL: | 45 MPH |
| FM 547 - PRINCIPAL ARTERIAL: | 40 MPH |
| CR 560/W-BUS380 - MAJOR ARTERIAL: | 40 MPH |
| CRs 607N, 607S, 609N, 609S, 697N, 697S LOCAL: | 40 MPH |
| AUDIE MURPHY (CR 567) AND AUDIE MURPHY PARKWAY (AMP) (EAST END) PRINCIPAL ARTERIAL: | 30 MPH |
| CR 699/CR 698 - MAJOR ARTERIAL: | 30 MPH |
| OLD JOSEPHINE (CR 648) MINOR COLLECTOR: | 30 MPH |
| EB AUDIE MURPHY TO WB FRONTAGE LOCAL ACCESS - LOCAL: | 25 MPH |

HIGHWAY CLASSIFICATION

URBAN FREEWAY


BEGIN PROJECT
ML-US380
STA 1622+69.00
BEGIN CSJ:
0135-04-038
END PROJECT
ML-US380
STA 2041+69.46
END CSJ:
0135-06-038
END CSJ:
0135-04-038
STA 1678+24.34
BEGIN CSJ:
0135-17-002
END CSJ:
0135-05-028
STA 2016+69.46
BEGIN CSJ:
0135-06-038
END CSJ:
0135-17-002
STA 2004+80.57
BEGIN CSJ:
0135-05-028
COLLIN COUNTY
HUNT COUNTY
380
547
78
COLLIN COUNTY
OUTER LOOP (CCOL)
(BY OTHERS)


COLLIN COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP

N.T.S.

DATE: APRIL 21, 2023
PREPARED BY HNTB
UNDER THE SUPERVISION OF:

NICOLE M. CARRILLO, P.E.

Nicole Carrillo

SERIAL NO. 101321

CHELSEA BOWEN

Chelsea Bowen

SERIAL NO. 113553

**HNTB**

HNTB Corporation
The HNTB Companies
Firm Registration Number F-420
Engineers Architects Planners

0 10 20 30 40
VERTICAL SCALE:

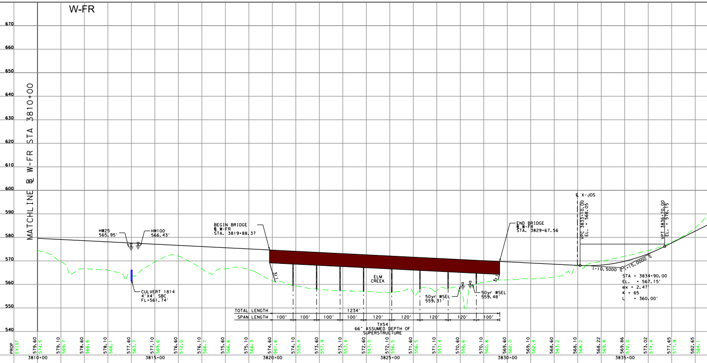
0 100 200 300 400
HORIZONTAL SCALE:

DATE SUBMITTED:

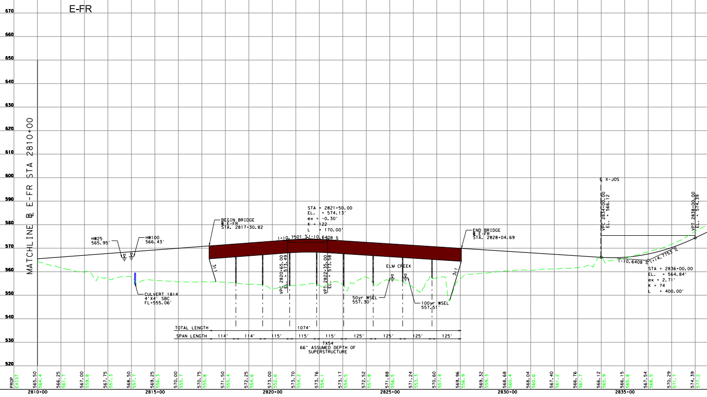
DATE APPROVED:

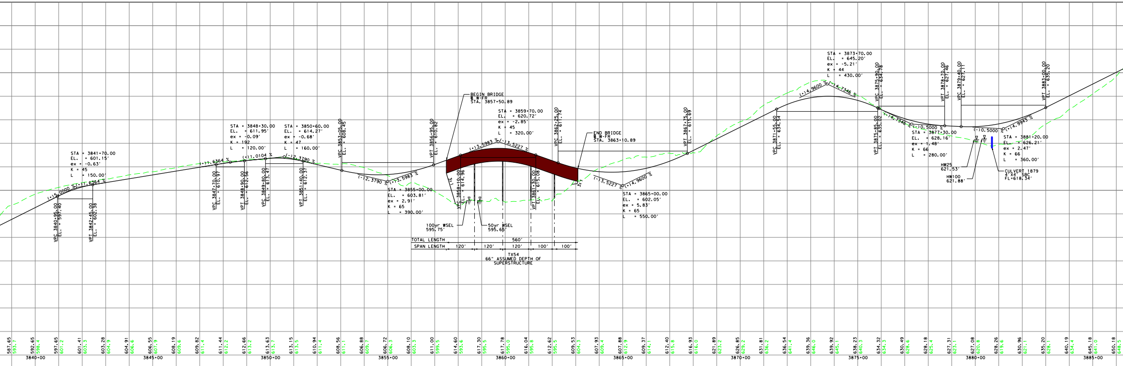
© 2023 by Texas Department of Transportation all rights reserved

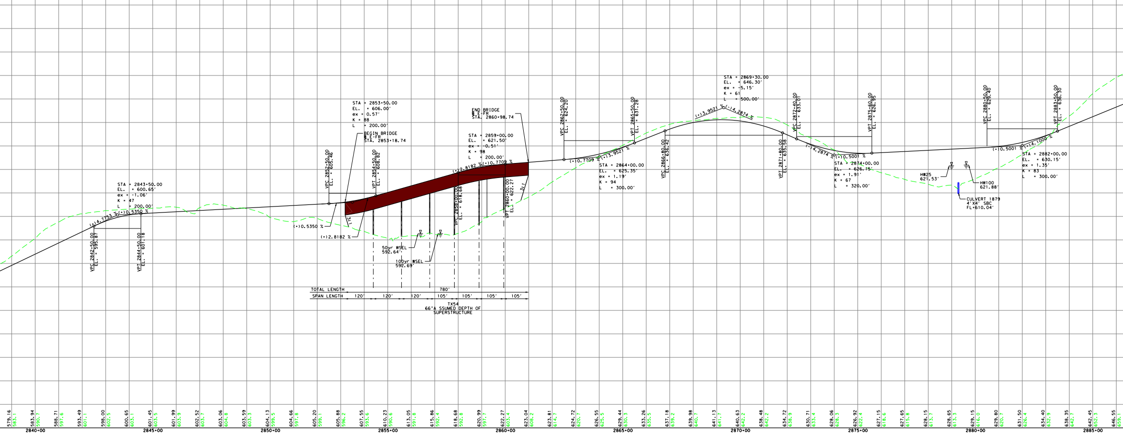
W-FR

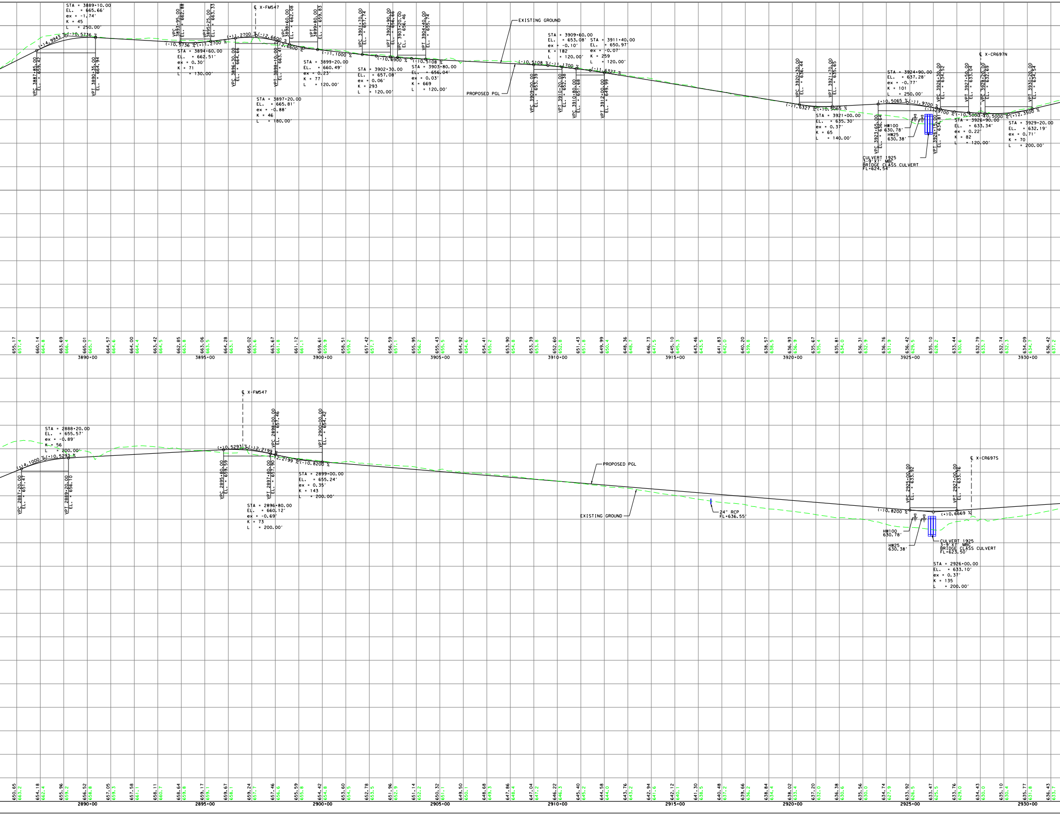

MATCHLINE ℄ W-FR STA 3810+00
670
660
650
640
630
620
610
600
590
580
570
560
550
540
HW25
565.95'
HW100
566.43'
CULVERT 1814
4'X4' SBC
FL=561.74'
BEGIN BRIDGE
℄ W-FR
STA. 3819+88.37
END BRIDGE
℄ W-FR
STA. 3829+67.56
3:1
ELM
CREEK
50yr WSEL
559.31'
50yr WSEL
559.48'
TOTAL LENGTH
1234'
SPAN LENGTH
100' 100' 100' 100' 120' 120' 120' 120' 100'
TX54
66" ASSUMED DEPTH OF
SUPERSTRUCTURE
℄ X-JOS
VPC 3833+10.00
EL. = 568.05
VPT 3836+70.00
EL. = 576.15
(-)0.5000 %
(+)5.0000 %
STA = 3834+90.00
EL. = 567.15'
ex = 2.47'
K = 65
L = 360.00'
PROP
EXIST
579.60 574.5
579.10 569.7
578.60 566.6
578.10 566.1
577.60 563.7
577.10 569.6
576.60 572.0
576.10 566.7
575.60 566.6
575.10 566.3
574.60 561.6
574.10 559.4
573.60 557.9
573.10 557.4
572.60 557.0
572.10 556.5
571.60 556.5
571.10 557.4
570.60 556.6
570.10 560.8
569.60 562.0
569.10 562.4
568.60 563.2
568.10 568.2
568.22 569.8
569.86 572.0
573.02 574.4
577.65 577.9
582.65 584.1
3810+00
3815+00
3820+00
3825+00
3830+00
3835+00

E-FR

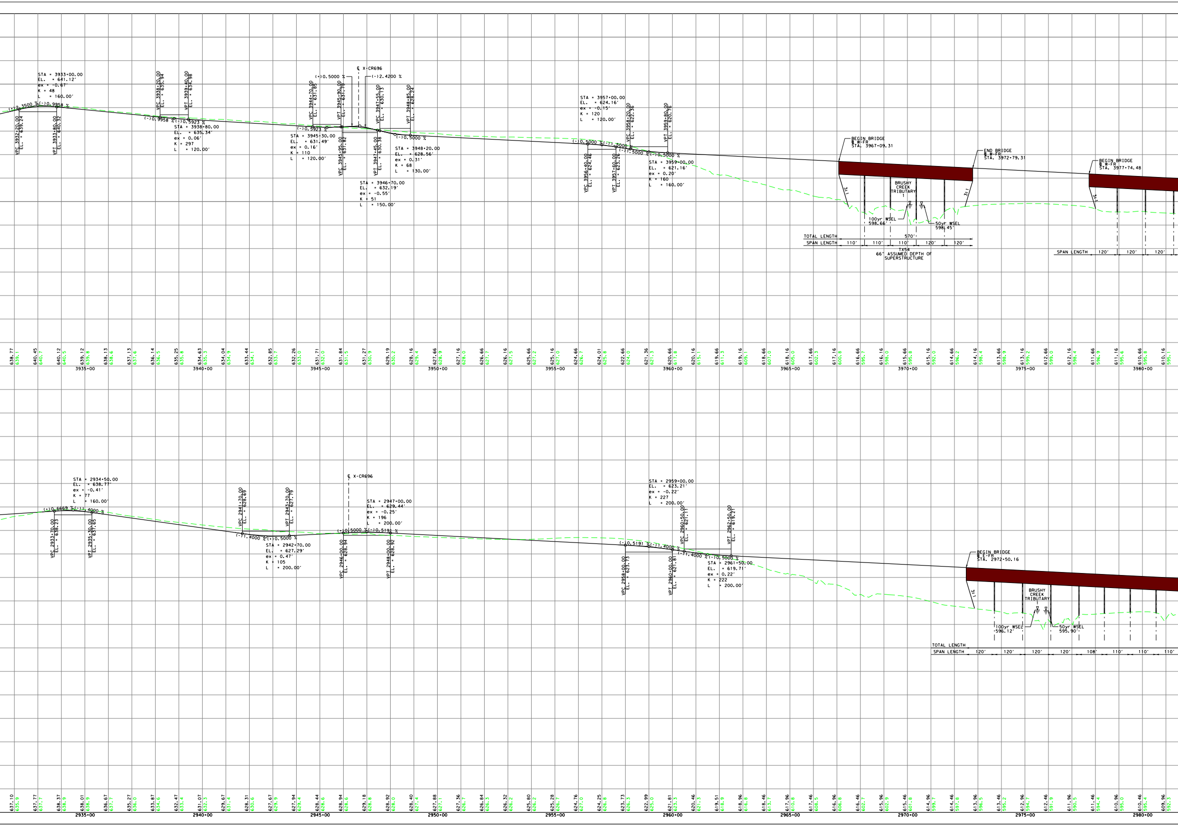

MATCHLINE ℄ E-FR STA 2810+00
670
660
650
640
630
620
610
600
590
580
570
560
550
540
530
520
HW25
565.95'
HW100
566.43'
CULVERT 1814
4'X4' SBC
FL=555.06'
BEGIN BRIDGE
℄ E-FR
STA. 2817+30.82
STA = 2821+50.00
EL. = 574.13'
ex = -0.30'
K = 122
L = 170.00'
(+)0.7501 %
(-)0.6408 %
VPC 2820+65.00
EL. = 573.49
VPT 2822+35.00
EL. = 573.58
3:1
ELM CREEK
50yr WSEL
557.30'
100yr WSEL
557.51'
END BRIDGE
℄ E-FR
STA. 2828+04.69
TOTAL LENGTH
1074'
SPAN LENGTH
114' 114' 115' 115' 115' 125' 125' 125' 125'
TX54
66" ASSUMED DEPTH OF
SUPERSTRUCTURE
℄ X-JOS
VPC 2834+00.00
EL. = 566.12
VPT 2838+00.00
EL. = 574.39
(-)0.6408 %
(+)4.7753 %
STA = 2836+00.00
EL. = 564.84'
ex = 2.71'
K = 74
L = 400.00'
PROP
EXIST
565.50 564.4
566.25 561.7
567.00 559.8
567.75 557.3
568.50 557.7
569.25 556.3
570.00 555.7
570.75 555.8
571.50 555.4
572.25 554.6
573.00 552.6
573.70 554.2
573.76 554.1
573.17 554.5
572.52 557.8
571.88 556.5
571.24 553.3
570.60 557.4
569.96 556.9
569.32 559.3
568.68 560.4
568.04 560.6
567.40 561.2
566.76 561.7
566.12 565.9
566.15 565.8
567.54 568.5
570.29 571.7
574.39 577.2
2810+00
2815+00
2820+00
2825+00
2830+00
2835+00

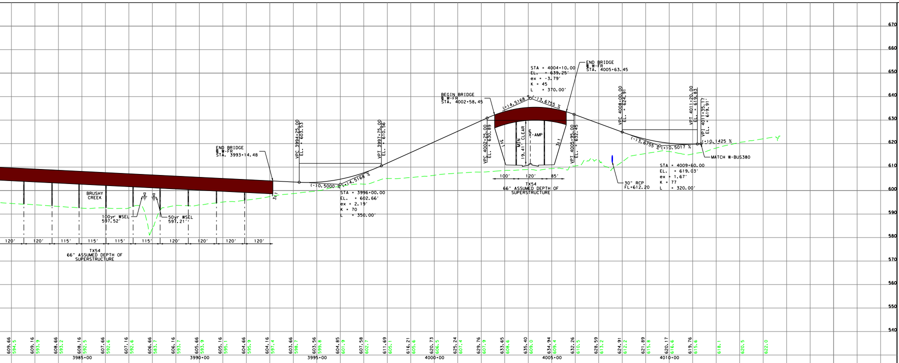

STA = 3841+70.00
EL. = 601.15'
ex = -0.63'
K = 45
L = 150.00'
(+)5.0000 %
(+)1.6364 %
VPC 3840+95.00 EL. = 597.40
VPT 3842+45.00 EL. = 602.38
STA = 3848+30.00
EL. = 611.95'
ex = -0.09'
K = 192
L = 120.00'
STA = 3850+60.00
EL. = 614.27'
ex = -0.68'
K = 47
L = 160.00'
(+)1.6364 %
(+)1.0104 %
(-)2.3790 %
VPC 3847+70.00 EL. = 610.97
VPT 3848+90.00 EL. = 612.56
VPC 3849+80.00 EL. = 613.47
VPT 3851+40.00 EL. = 612.37
VPC 3853+05.00 EL. = 608.45
VPT 3856+95.00 EL. = 610.82
(-)2.3790 %
(+)3.5983 %
STA = 3855+00.00
EL. = 603.81'
ex = 2.91'
K = 65
L = 390.00'
BEGIN BRIDGE
℄ W-FR
STA. 3857+50.89
STA = 3859+70.00
EL. = 620.72'
ex = -2.85'
K = 45
L = 320.00'
(+)3.5983 %
(-)3.5227 %
VPC 3858+10.00 EL. = 614.96
VPT 3861+30.00 EL. = 615.08
VPC 3862+25.00 EL. = 611.74
3:1
3:1
100yr WSEL
595.75'
50yr WSEL
595.65'
TOTAL LENGTH
560'
SPAN LENGTH
120'
120'
120'
100'
100'
TX54
66" ASSUMED DEPTH OF
SUPERSTRUCTURE
END BRIDGE
℄ W-FR
STA. 3863+10.89
(-)3.5227 %
(+)4.9600 %
STA = 3865+00.00
EL. = 602.05'
ex = 5.83'
K = 65
L = 550.00'
VPT 3867+75.00 EL. = 615.69
VPC 3871+55.00 EL. = 634.54
STA = 3873+70.00
EL. = 645.20'
ex = -5.21'
K = 44
L = 430.00'
(+)4.9600 %
(-)4.7346 %
VPC 3875+90.00 EL. = 634.78
VPT 3875+85.00 EL. = 635.02
(-)4.7346 %
(-)0.5000 %
STA = 3877+30.00
EL. = 628.16'
ex = 1.48'
K = 66
L = 280.00'
VPT 3878+70.00 EL. = 627.46
VPC 3879+40.00 EL. = 627.11
(-)0.5000 %
(+)4.9943 %
STA = 3881+20.00
EL. = 626.21'
ex = 2.47'
K = 66
L = 360.00'
VPT 3883+00.00 EL. = 635.20
HW25
621.53'
HW100
621.88'
CULVERT 1879
4'X4' SBC
FL=618.34'
587.65 593.7
592.65 598.4
597.65 601.2
601.41 603.3
603.28 604.9
604.91 606.6
606.55 607.9
608.19 609.6
609.82 611.4
611.44 612.2
612.66 613.2
613.63 613.7
613.15 613.5
610.94 611.4
608.56 611.1
606.88 609.7
606.72 606.3
608.10 603.3
611.00 599.5
614.60 593.6
617.30 595.5
617.78 595.0
616.04 595.8
612.62 595.5
609.53 604.3
607.93 609.4
607.88 612.9
609.37 614.1
612.40 615.8
616.93 616.0
621.89 623.2
626.85 629.2
631.81 636.2
636.54 641.4
639.36 646.0
639.92 645.1
638.23 640.3
634.32 634.3
630.49 628.6
628.18 625.4
627.31 623.1
627.08 620.8
628.26 619.6
630.96 621.1
635.20 628.1
640.19 634.4
645.18 641.0
650.18 648.5
3840+00
3845+00
3850+00
3855+00
3860+00
3865+00
3870+00
3875+00
3880+00
3885+00

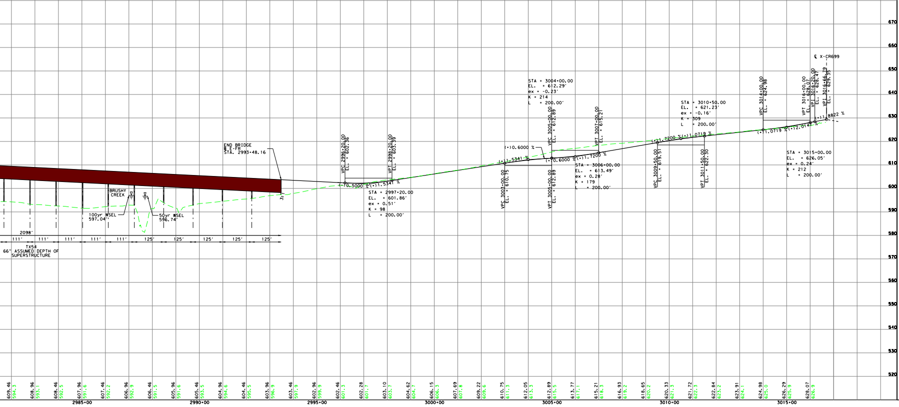

STA = 2843+50.00
EL. = 600.65'
ex = -1.06'
K = 47
L = 200.00'
(+)4.7753 %
(+)0.5350 %
VPC 2842+50.00 EL. = 595.87
VPT 2844+50.00 EL. = 601.18
(+)0.5350 %
(+)2.8182 %
VPC 2852+50.00 EL. = 605.46
STA = 2853+50.00
EL. = 606.00'
ex = 0.57'
K = 88
L = 200.00'
BEGIN BRIDGE
℄ E-FR
STA. 2853+18.74
VPT 2854+50.00 EL. = 608.82
END BRIDGE
℄ E-FR
STA. 2860+98.74
STA = 2859+00.00
EL. = 621.50'
ex = -0.51'
K = 98
L = 200.00'
(+)2.8182 %
(+)0.7709 %
VPC 2858+00.00 EL. = 618.68
VPT 2860+00.00 EL. = 622.27
3:1
3:1
50yr WSEL
592.64'
100yr WSEL
592.69'
TOTAL LENGTH
780'
SPAN LENGTH
120'
120'
120'
105'
105'
105'
105'
TX54
66"A SSUMED DEPTH OF
SUPERSTRUCTURE
VPC 2862+50.00 EL. = 624.20
(+)0.7709 %
(+)3.9521 %
STA = 2864+00.00
EL. = 625.35'
ex = 1.19'
K = 94
L = 300.00'
VPT 2865+50.00 EL. = 631.28
VPC 2866+80.00 EL. = 636.42
STA = 2869+30.00
EL. = 646.30'
ex = -5.15'
K = 61
L = 500.00'
(+)3.9521 %
(-)4.2874 %
VPT 2871+80.00 EL. = 635.58
VPC 2872+40.00 EL. = 633.01
(-)4.2874 %
(+)0.5001 %
STA = 2874+00.00
EL. = 626.15'
ex = 1.91'
K = 67
L = 320.00'
VPT 2875+60.00 EL. = 626.95
HW25
621.53'
HW100
621.88'
CULVERT 1879
4'X4' SBC
FL=610.04'
VPC 2880+50.00 EL. = 629.40
(+)0.5001 %
(+)4.1000 %
STA = 2882+00.00
EL. = 630.15'
ex = 1.35'
K = 83
L = 300.00'
VPT 2883+50.00 EL. = 636.30
579.16 583.1
583.94 590.7
588.71 597.6
593.49 601.1
598.00 602.5
600.65 603.1
601.45 603.5
601.99 603.9
602.52 603.7
603.06 604.8
603.59 603.3
604.13 599.5
604.66 597.8
605.20 599.1
605.88 596.2
607.55 593.6
610.23 590.6
613.05 591.8
615.86 592.4
618.68 592.8
620.99 597.7
622.27 603.4
623.04 608.2
623.81 614.7
624.72 620.7
626.55 625.5
629.44 630.3
633.26 635.5
637.18 639.2
639.98 640.7
641.13 641.7
640.63 642.2
638.48 642.2
634.72 638.9
630.71 633.4
628.06 628.3
626.92 622.4
627.15 618.6
627.65 615.8
628.15 613.7
628.65 613.3
629.15 616.0
629.80 620.7
631.50 626.4
634.40 632.9
638.35 642.7
642.45 652.3
646.55 659.1
2840+00
2845+00
2850+00
2855+00
2860+00
2865+00
2870+00
2875+00
2880+00
2885+00



STA = 3889+10.00
EL. = 665.66'
ex = -1.74'
K = 45
L = 250.00'
(+)4.9943 %
(-)0.5736 %
VPC 3887+85.00
EL. = 659.42
VPT 3890+35.00
EL. = 664.94
VPC 3893+95.00
EL. = 662.88
VPT 3895+25.00
EL. = 663.33
(-)0.5736 %
(+)1.2700 %
STA = 3894+60.00
EL. = 662.51'
ex = 0.30'
K = 71
L = 130.00'
℄ X-FM547
(+)1.2700 %
(-)2.6600 %
VPC 3896+30.00
EL. = 664.66
VPT 3898+10.00
EL. = 663.41
STA = 3897+20.00
EL. = 665.81'
ex = -0.88'
K = 46
L = 180.00'
VPC 3898+60.00
EL. = 662.08
VPT 3899+80.00
EL. = 659.83
(-)2.6600 %
(-)1.1000 %
STA = 3899+20.00
EL. = 660.49'
ex = 0.23'
K = 77
L = 120.00'
VPC 3901+70.00
EL. = 657.74
VPT 3902+90.00
EL. = 656.66
VPC 3903+20.00
EL. = 656.46
VPT 3904+40.00
EL. = 655.74
(-)0.6900 %
(-)0.5108 %
STA = 3902+30.00
EL. = 657.08'
ex = 0.06'
K = 293
L = 120.00'
STA = 3903+80.00
EL. = 656.04'
ex = 0.03'
K = 669
L = 120.00'
EXISTING GROUND
PROPOSED PGL
STA = 3909+60.00
EL. = 653.08'
ex = -0.10'
K = 182
L = 120.00'
STA = 3911+40.00
EL. = 650.97'
ex = -0.07'
K = 259
L = 120.00'
(-)0.5108 %
(-)1.1700 %
(-)1.6327 %
VPC 3909+00.00
EL. = 653.39
VPT 3910+20.00
EL. = 652.38
VPC 3910+80.00
EL. = 651.68
VPT 3912+00.00
EL. = 649.99
VPC 3920+30.00
EL. = 636.44
VPT 3921+70.00
EL. = 635.65
(-)1.6327 %
(+)0.5065 %
STA = 3921+00.00
EL. = 635.30'
ex = 0.37'
K = 65
L = 140.00'
STA = 3924+90.00
EL. = 637.28'
ex = -0.77'
K = 101
L = 250.00'
(+)0.5065 %
(-)1.9700 %
VPC 3923+65.00
EL. = 636.64
VPT 3926+15.00
EL. = 634.81
HW100
630.78'
HW25
630.38'
CULVERT 1925
3-9'X7' MBC
BRIDGE CLASS CULVERT
FL=624.54'
℄ X-CR697N
VPC 3926+30.00
EL. = 634.52
VPT 3927+50.00
EL. = 633.04
VPC 3928+20.00
EL. = 632.69
VPT 3930+20.00
EL. = 634.54
(-)1.9700 %
(-)0.5000 %
(-)0.5000 %
(+)2.3500 %
STA = 3926+90.00
EL. = 633.34'
ex = 0.22'
K = 82
L = 120.00'
STA = 3929+20.00
EL. = 632.19'
ex = 0.71'
K = 70
L = 200.00'
655.17 657.4
660.14 664.8
663.69 666.4
665.01 665.7
664.57 664.6
664.00 664.4
663.42 664.5
662.85 663.8
663.06 663.5
664.28 665.1
665.02 663.6
663.67 661.8
661.12 661.1
659.61 659.9
658.51 659.2
657.42 657.7
656.59 657.1
655.95 656.2
655.43 655.5
654.92 654.6
654.41 655.2
653.90 654.8
653.39 653.8
652.60 652.8
651.43 651.8
649.99 650.4
648.36 648.7
646.73 647.5
645.10 645.3
643.46 643.5
641.83 642.0
640.20 639.8
638.57 638.5
636.93 636.9
635.67 635.4
635.81 634.0
636.31 632.9
636.76 631.9
636.42 629.5
635.10 628.2
633.44 630.6
632.79 633.7
632.74 632.3
634.09 634.7
636.42 637.2
3890+00
3895+00
3900+00
3905+00
3910+00
3915+00
3920+00
3925+00
3930+00
℄ X-FM547
STA = 2888+20.00
EL. = 655.57'
ex = -0.89'
K = 56
L = 200.00'
(+)4.1000 %
(+)0.5293 %
VPC 2887+20.00
EL. = 651.47
VPT 2889+20.00
EL. = 656.10
(+)0.5293 %
(-)2.2199 %
VPC 2895+80.00
EL. = 659.59
VPT 2897+80.00
EL. = 657.90
STA = 2896+80.00
EL. = 660.12'
ex = -0.69'
K = 73
L = 200.00'
VPC 2898+00.00
EL. = 657.46
VPT 2900+00.00
EL. = 654.42
(-)2.2199 %
(-)0.8200 %
STA = 2899+00.00
EL. = 655.24'
ex = 0.35'
K = 143
L = 200.00'
PROPOSED PGL
EXISTING GROUND
24" RCP
FL=636.55'
℄ X-CR697S
VPC 2925+00.00
EL. = 633.92
VPT 2927+00.00
EL. = 633.76
(-)0.8200 %
(+)0.6669 %
HW100
630.78'
HW25
630.38'
CULVERT 1925
3-9'X7' MBC
BRIDGE CLASS CULVERT
FL=623.50'
STA = 2926+00.00
EL. = 633.10'
ex = 0.37'
K = 135
L = 200.00'
650.65 653.2
654.18 662.4
655.96 659.2
656.52 658.8
657.05 659.3
657.58 661.1
658.11 660.7
658.64 659.6
659.17 659.1
659.67 658.1
659.24 657.7
657.46 656.6
655.59 655.8
654.42 654.8
653.60 654.5
652.78 653.5
651.96 652.9
651.14 652.2
650.32 651.1
649.50 650.1
648.68 649.3
647.86 648.4
647.04 647.2
646.22 646.3
645.40 645.2
644.58 644.0
643.76 643.2
642.94 641.6
642.12 640.1
641.30 638.5
640.48 637.2
639.66 636.2
638.84 634.4
638.02 633.4
637.20 632.0
636.38 630.6
635.56 630.0
634.74 627.9
633.92 626.5
633.47 625.5
633.76 629.0
634.43 630.0
635.10 630.4
635.77 631.8
636.43 633.7
2890+00
2895+00
2900+00
2905+00
2910+00
2915+00
2920+00
2925+00
2930+00


STA = 3933+00.00
EL. = 641.12'
ex = -0.67'
K = 48
L = 160.00'
(+)2.3500 %
(-)0.9958 %
VPC 3932+20.00 EL. = 639.24
VPT 3933+80.00 EL. = 640.32
VPC 3938+20.00 EL. = 635.94
VPT 3939+40.00 EL. = 634.98
(-)0.9958 %
(-)0.5923 %
STA = 3938+80.00
EL. = 635.34'
ex = 0.06'
K = 297
L = 120.00'
℄ X-CR696
(+)0.5000 %
(-)2.4200 %
VPC 3944+70.00 EL. = 631.85
VPT 3945+90.00 EL. = 631.79
VPC 3947+55.00 EL. = 630.13
VPT 3948+85.00 EL. = 628.24
(-)0.5923 %
STA = 3945+30.00
EL. = 631.49'
ex = 0.16'
K = 110
L = 120.00'
VPC 3945+95.00 EL. = 631.82
VPT 3947+45.00 EL. = 630.38
(-)0.5000 %
STA = 3948+20.00
EL. = 628.56'
ex = 0.31'
K = 68
L = 130.00'
STA = 3946+70.00
EL. = 632.19'
ex = -0.55'
K = 51
L = 150.00'
STA = 3957+00.00
EL. = 624.16'
ex = -0.15'
K = 120
L = 120.00'
VPC 3958+20.00 EL. = 622.36
VPT 3959+80.00 EL. = 620.76
(-)0.5000 %
(-)1.5000 %
(-)1.5000 %
(-)0.5000 %
VPC 3956+40.00 EL. = 624.46
VPT 3957+60.00 EL. = 623.26
STA = 3959+00.00
EL. = 621.16'
ex = 0.20'
K = 160
L = 160.00'
BEGIN BRIDGE
℄ W-FR
STA. 3967+09.31
END BRIDGE
℄ W-FR
STA. 3972+79.31
BEGIN BRIDGE
℄ W-FR
STA. 3977+74.48
3:1
3:1
3:1
BRUSHY CREEK TRIBUTARY 1
100yr WSEL 598.66'
50yr WSEL 598.45'
TOTAL LENGTH 570'
SPAN LENGTH 110' 110' 110' 120' 120'
TX54
66" ASSUMED DEPTH OF SUPERSTRUCTURE
SPAN LENGTH 120' 120' 120'
638.77 639.1
640.45 640.7
640.12 640.5
639.12 639.8
638.13 638.6
637.13 637.6
636.14 636.5
635.25 635.8
634.63 635.3
634.04 634.9
633.44 634.1
632.85 633.7
632.26 633.0
631.71 632.0
631.84 631.5
631.27 630.9
629.19 630.2
628.16 629.4
627.66 628.9
627.16 628.0
626.66 627.7
626.16 627.5
625.66 627.2
625.16 627.0
624.66 626.7
624.01 625.8
622.66 624.0
621.36 621.3
620.66 617.8
620.16 615.1
619.66 611.3
619.16 609.1
618.66 607.0
618.16 605.0
617.66 602.3
617.16 600.8
616.66 595.7
616.16 598.0
615.66 595.8
615.16 592.0
614.66 596.2
614.16 598.4
613.66 598.9
613.16 599.2
612.66 599.0
612.16 598.4
611.66 596.9
611.16 595.6
610.66 595.8
610.16 595.1
3935+00
3940+00
3945+00
3950+00
3955+00
3960+00
3965+00
3970+00
3975+00
3980+00
STA = 2934+50.00
EL. = 638.77'
ex = -0.41'
K = 77
L = 160.00'
(+)0.6669 %
(-)1.4000 %
VPC 2933+70.00 EL. = 638.23
VPT 2935+30.00 EL. = 637.65
VPC 2941+70.00 EL. = 628.69
VPT 2943+70.00 EL. = 627.79
(-)1.4000 %
(+)0.5000 %
STA = 2942+70.00
EL. = 627.29'
ex = 0.47'
K = 105
L = 200.00'
℄ X-CR696
STA = 2947+00.00
EL. = 629.44'
ex = -0.25'
K = 196
L = 200.00'
(+)0.5000 %
(-)0.5191 %
VPC 2946+00.00 EL. = 628.94
VPT 2948+00.00 EL. = 628.92
STA = 2959+00.00
EL. = 623.21'
ex = -0.22'
K = 227
L = 200.00'
VPC 2960+50.00 EL. = 621.11
VPT 2962+50.00 EL. = 619.21
(-)0.5191 %
(-)1.4000 %
(-)1.4000 %
(-)0.5000 %
VPC 2958+00.00 EL. = 623.73
VPT 2960+00.00 EL. = 621.81
STA = 2961+50.00
EL. = 619.71'
ex = 0.22'
K = 222
L = 200.00'
BEGIN BRIDGE
℄ E-FR
STA. 2972+50.16
3:1
BRUSHY CREEK TRIBUTARY 1
100yr WSEL 596.12'
50yr WSEL 595.90'
TOTAL LENGTH
SPAN LENGTH 120' 120' 120' 120' 108' 110' 110' 110'
637.10 635.9
637.77 637.7
638.37 638.9
638.01 638.9
636.67 637.7
635.27 636.0
633.87 634.6
632.47 633.4
631.07 632.3
629.67 631.4
628.31 630.6
627.67 629.9
627.94 629.4
628.44 628.6
628.94 628.6
629.18 628.8
628.92 628.0
628.40 627.4
627.88 627.1
627.36 626.7
626.84 626.3
626.32 626.2
625.80 626.2
625.28 626.7
624.76 627.0
624.25 626.8
623.73 626.3
622.99 625.0
621.81 623.3
620.46 621.3
619.51 618.9
618.96 616.8
618.46 613.7
617.96 610.8
617.46 608.5
616.96 606.8
616.46 602.7
615.96 602.9
615.46 601.8
614.96 599.7
614.46 597.8
613.96 596.5
613.46 595.2
612.96 594.7
612.46 591.9
611.96 590.5
611.46 594.4
610.96 595.0
610.46 595.4
609.96 592.3
2935+00
2940+00
2945+00
2950+00
2955+00
2960+00
2965+00
2970+00
2975+00
2980+00


BEGIN BRIDGE
STA. 4002+58.45
END BRIDGE
STA. 4005+63.45
END BRIDGE
STA. 3993+14.48
STA = 4004+10.00
EL. = 639.25'
ex = -3.79'
K = 45
L = 370.00'
STA = 3996+00.00
EL. = 602.66'
ex = 2.19'
K = 70
L = 350.00'
STA = 4009+60.00
EL. = 619.03'
ex = 1.67'
K = 77
L = 320.00'
(-)0.5000 %
(+)4.5168 %
(-)3.6755 %
(+)0.5017 %
(+)0.1425 %
BRUSHY CREEK
100yr WSEL 597.52'
50yr WSEL 597.21'
TX54
66" ASSUMED DEPTH OF SUPERSTRUCTURE
19.41' MIN. CLEAR
30" RCP FL=612.20
MATCH W-BUS380
3985+00
3990+00
3995+00
4000+00
4005+00
4010+00


END BRIDGE
STA. 2993+48.16
STA = 3004+00.00
EL. = 612.29'
ex = -0.23'
K = 214
L = 200.00'
STA = 2997+20.00
EL. = 601.86'
ex = 0.51'
K = 98
L = 200.00'
STA = 3006+00.00
EL. = 613.49'
ex = 0.28'
K = 179
L = 200.00'
STA = 3010+50.00
EL. = 621.23'
ex = -0.16'
K = 309
L = 200.00'
STA = 3015+00.00
EL. = 626.05'
ex = 0.24'
K = 212
L = 200.00'
℄ X-CR699
BRUSHY CREEK
100yr WSEL 597.04'
50yr WSEL 596.74'
2098'
TX54
66" ASSUMED DEPTH OF SUPERSTRUCTURE
2985+00
2990+00
2995+00
3000+00
3005+00
3010+00
3015+00

TEXAS DEPARTMENT OF TRANSPORTATION®

DALLAS DISTRICT

CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

# DESIGN SCHEMATIC
# US 380 FARMERSVILLE

COLLIN COUNTY, TEXAS

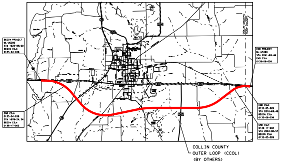
| CSJ: | FROM | TO |
|---|---|---|
| 0135-04-038: | CR 560 | JCT US 380/AUDIE MURPHY (WEST OF FARMERSVILLE) |
| 0135-17-002: | JCT US 380/AUDIE MURPHY (WEST OF FARMERSVILLE) | WEST OF CR 698 (COLLIN/HUNT COUNTY LINE) |
| 0135-05-028: | WEST OF CR 698 (COLLIN/HUNT COUNTY LINE) | CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) |
| 0135-06-038: | CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) | E OF CR 698/CR 699 (COLLIN/HUNT COUNTY LINE) |

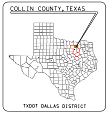
APRIL 2023

ROLL 8 OF 10

| | |
|---|---|
| LENGTH: | 7.6 MILES (ULTIMATE)<br>7.9 MILES (ULTIMATE & INTERIM TRANSITION) |
| FUNCTIONAL CLASS: | INTERSTATE |
| DESIGN SPEEDS (MINIMUM) | |
| MAIN LANES: | 70 MPH |
| RAMPS: | 45 MPH |
| FRONTAGE ROAD: | 40 MPH |
| CR 696 - MAJOR COLLECTOR: | 60 MPH |
| HAMILTON/MAIN (FUTURE) MAJOR COLLECTOR: | 50 MPH |
| SH 78 - PRINCIPAL ARTERIAL: | 45 MPH |
| FM 547 - PRINCIPAL ARTERIAL: | 40 MPH |
| CR 560/W-BUS380 - MAJOR ARTERIAL: | 40 MPH |
| CRs 607N, 607S, 609N, 609S, 697N, 697S LOCAL: | 40 MPH |
| AUDIE MURPHY (CR 567) AND AUDIE MURPHY PARKWAY (AMP) (EAST END) PRINCIPAL ARTERIAL: | 30 MPH |
| CR 699/CR 698 - MAJOR ARTERIAL: | 30 MPH |
| OLD JOSEPHINE (CR 648) MINOR COLLECTOR: | 30 MPH |
| EB AUDIE MURPHY TO WB FRONTAGE LOCAL ACCESS - LOCAL: | 25 MPH |

HIGHWAY CLASSIFICATION
URBAN FREEWAY


COLLIN COUNTY OUTER LOOP (CCOL) (BY OTHERS)


COLLIN COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

0 10 20 30 40
VERTICAL SCALE:

0 100 200 300 400
HORIZONTAL SCALE:

DATE: APRIL 21, 2023
PREPARED BY HNTB
UNDER THE SUPERVISION OF:
NICOLE M. CARRILLO, P.E.
Nicole Carrillo
SERIAL NO. 101321

CHELSEA BOWEN
Chelsea Bowen
SERIAL NO. 113553

HNTB

HNTB Corporation
The HNTB Companies
Firm Registration Number F-420
Engineers Architects Planners

DATE SUBMITTED:

DATE APPROVED:

© 2023 by Texas Department of Transportation all rights reserved