Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

DENTON COUNTY

FM 1385

FROM: US 380 TO FM 455
CSJ: 1315-01-030

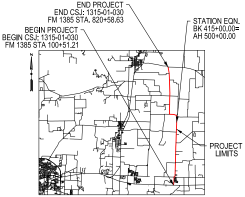
FUNCTIONAL CLASS: URBAN MAJOR COLLECTOR

DESIGN SPEED: 45 mph (FM 1385)
30 mph (CROSS-ST)

PROJECT LENGTH: 12.03 MILES

INDEX OF SHEETS:

ROLL 1: US 380 TO UNION PARK BLVD - STA 100+51.21 TO STA 170+00
ROLL 2: UNION PARK BLVD TO NORTH OF WINN RIDGE RD - STA 170+00 TO STA 245+00
ROLL 3: NORTH OF WINN RIDGE RD TO RANCHETTE RD - STA 245+00 TO STA 322+00
ROLL 4: RANCHETTE RD TO NORTH OF FM 428 WEST - STA 322+00 TO STA 397+00
ROLL 5: NORTH OF FM 428 WEST TO MUSTANG CREEK - STA 397+00 TO STA 558+00
ROLL 6: MUSTAND CREEK TO NORTH OF JOE ALLEN RD - STA 558+00 TO STA 635+00
ROLL 7: NORTH OF JOE ALLEN RD TO NORTH OF FREINDSHIP RD - STA 635+00 TO STA 713+00
ROLL 8: NORTH OF FREINDSHIP RD TO STRITTMATTER RD - STA 713+00 TO STA 791+00
ROLL 9: STRITTMATTER RD TO FM 455 - STA 791+00 TO STA 820+58.63


END PROJECT
END CSJ: 1315-01-030
FM 1385 STA. 820+58.63
BEGIN PROJECT
BEGIN CSJ: 1315-01-030
FM 1385 STA 100+51.21
STATION EQN.
BK 415+00.00=
AH 500+00.00
PROJECT
LIMITS

DENTON COUNTY

LOCATION MAP
N.T.S.

SEPTEMBER 2020

HORIZ SCALE: 1"=100'
0 50 100 150 200

VERTICAL SCALE: 1"=10'
0 5 10 15 20

HOWARD COLUMBUS GIBBS III, P.E.
(TX PE NO. 100239)

TIMOTHY M. NESBITT, P.E.
(TX PE NO. 66648)

DATE SUBMITTED
9/11/2020

DATE APPROVED

DATE REVISED

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ROLL 5 OF 9

Lina T. Ramey & Associates, Inc.
3320 Belt Line Rd
Farmers Branch, Texas 75234
TBPE Registration No. F-782

CIVIL ASSOCIATES, INC.
CAI
9330 LBJ Frwy, Ste. 1150
Dallas, Texas 75243
TBPE Firm Registration No. 6981

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LEGEND:

🟨	PROPOSED MAINLANES
▬	PROPOSED CROSS STREETS
▬	PROPOSED DRIVEWAYS
▬	PROPOSED SIDEWALKS
▬	PROPOSED BRIDGE STRUCTURES
▨	PAVEMENT REMOVAL
▨	DISPLACEMENTS
— · —	APPARENT EXISTING ROW
— · —	PROPOSED ROW
— · —	PROPOSED CENTERLINE/BASELINE
- - -	EXISTING EASEMENT
▬	100 YR FLOODPLAIN LIMITS
▨	FLOODWAY LIMITS
- - -	FUTURE PROJECT (BY OTHERS)
—	STREAM FLOW
→	DIRECTION OF TRAVEL
- - -	EXISTING CULVERT
—	PROPOSED CULVERT
(XXX-X)	CURVE NUMBER
(XX)	PROPERTY OWNERSHIP LABELS

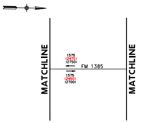
NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON EXISTING PLANS AND AERIAL SURVEYS DATED APRIL 2020 AND RECORD PLANS
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48121C0270G.
6. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM FIELD SURREY FOR INFORMATIONAL PURPOSES ONLY.
7. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
8. ALL CURBS ARE TYPE II (6") (UNLESS NOTED OTHERWISE).
9. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
10. WB-62 DESIGN VEHICLE WAS USED IN EVALUATION OF TURNING MOVEMENTS.
11. TRAFFIC VOLUMES BASED ON TRAFFIC COUNTS AND GROWTH RATES PROVIDED BY TP&P. TRAFFIC VOLUMES APPROVED BY TXDOT TP&P (MARCH 2020).
12. AS PER MUTCD REQUIREMENTS, A TRAFFIC SIGNAL WARRANT ANALYSIS WILL BE REQUIRED AFTER INTERSECTIONS ARE CONSTRUCTED TO JUSTIFY THE INSTALLATION OF TRAFFIC SIGNALS.
14. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DENTON COUNTY APPRAISAL DISTRICT (AUGUST 2020).

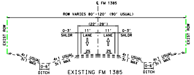
PROP ID	NAME	MAILING ADDRESS
EB78	SHINEY HINEY PARTNERS I	12700 HILLCREST RD STE 272
EB79	MM MOBBERLY 236 LLC	1800 VALLEY VIEW LN STE 300
WB33	A1719 LLC	12900 PRESTON RD STE 1117
EB1002	MM MOBBERLY 236 LLC	1800 VALLEY VIEW LN STE 300
EB1003	MM MOBBERLY 236 LLC	1800 VALLEY VIEW LN STE 300
EB1004	MM MOBBERLY 236 LLC	1800 VALLEY VIEW LN STE 300
EB1005	MM MOBBERLY 236 LLC	1800 VALLEY VIEW LN STE 300
EB1007	A1719 LLC	12900 PRESTON RD STE 1117
WB1106	A1719 LLC	12900 PRESTON RD STE 1117
WB1107	A1719 LLC	12900 PRESTON RD STE 1117
WB1110	PEMMASANI INTERESTS LLC	9111 CYPRESS WATERS BLVD STE 300
WB1111	PEMMASANI INTERESTS LLC	9111 CYPRESS WATERS BLVD STE 300
WB1112	PEMMASANI INTERESTS LLC	9111 CYPRESS WATERS BLVD STE 300
WB1113	A1719 LLC	12900 PRESTON RD STE 1117
WB258	A1719 LLC	12900 PRESTON RD STE 1117

LEGEND
(XXXX) 2025 ADT
(XXXX) 2045 ADT
(XXXX) 2055 ADT

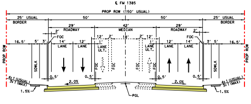
TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP. UPDATED MARCH, 2020


MATCHLINE
1575
(2475)
(2750)
FM 1385
1575
(2450)
(2700)
MATCHLINE

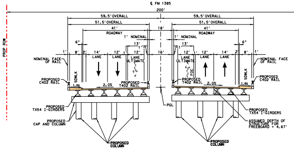
TRAFFIC DIAGRAM - FM 1385
N.T.S.


℄ FM 1385
ROW VARIES 80'-120' (90' USUAL)
(22'-28')
0-3' SHLDR
11' LANE
11' LANE
0-3' SHLDR
EXIST ROW
2%
2%
4:1 USUAL
3:1 MAX
0-6'
DITCH
EXIST ROW

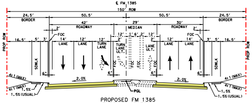
EXISTING FM 1385
TYPICAL SECTION


℄ FM 1385
PROP ROW (150' USUAL)
25' USUAL BORDER
50'
50'
25' USUAL BORDER
29' ROADWAY
42' MEDIAN
29' ROADWAY
16.5'
FOC
14' LANE
12' LANE
12' LANE ULT.
LANE ULT.
SDWLK
PROP ROW
2.0%
1.5%
4:1 (USUAL)
3:1 (MAX)
PGL

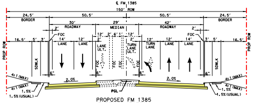
PROPOSED FM 1385
TYPICAL SECTION
STA 397+00 TO 558+00


℄ FM 1385
200'
59.5' OVERALL
51.5' OVERALL
41' ROADWAY
1' NOMINAL
18'
PROP ROW
NOMINAL FACE OF RAIL
PROPOSED C402 RAIL
PROPOSED T402 RAIL
14' LANE
12' LANE
12' LANE ULTIMATE
SDWLK
2.0%
1.5%
TX54 I-GIRDERS
PROPOSED CAP AND COLUMN
PROPOSED COLUMN
PGL
PROPOSED TX54 I-GIRDERS
ASSUMED DEPTH OF STRUCTURE FOR FREEBOARD = 4.67'

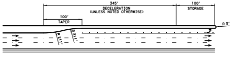
PROPOSED FM 1385
BRIDGE TYPICAL SECTION
STA. 531+85.00 TO 541+85.00


℄ FM 1385
150' ROW
24.5' BORDER
50.5'
50.5'
24.5' BORDER
42' ROADWAY
29' MEDIAN
30' ROADWAY
TURN LANE
TURN LANE ULT.
LANE ULT.
FOC
SDWLK
PROP ROW
2.0%
4:1 (MAX)
1.5% (USUAL)
PGL

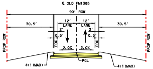
PROPOSED FM 1385
TYPICAL SECTION
STA 526+50 TO 530+95


℄ FM 1385
150' ROW
24.5' BORDER
50.5'
50.5'
24.5' BORDER
30' ROADWAY
29' MEDIAN
42' ROADWAY
LANE ULT.
TURN LANE ULT.
TURN LANE
FOC
SDWLK
PROP ROW
2.0%
4:1 (MAX)
1.5% (USUAL)
PGL

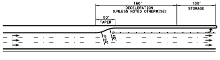
PROPOSED FM 1385
TYPICAL SECTION
STA 520+76 TO 525+21
STA 555+38 TO 559+83


345'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
100'
TAPER
R 3'

TYPICAL LEFT-TURN BAY DETAILS (45 MPH)
N.T.S


℄ OLD FM1385
90' ROW
30.5'
12' LANE
12' LANE
30.5'
PROP ROW
2.0%
PGL
4:1 (MAX)

PROPOSED OLD FM1385 RD
TYPICAL SECTION
STA. 100+00 TO 112+66

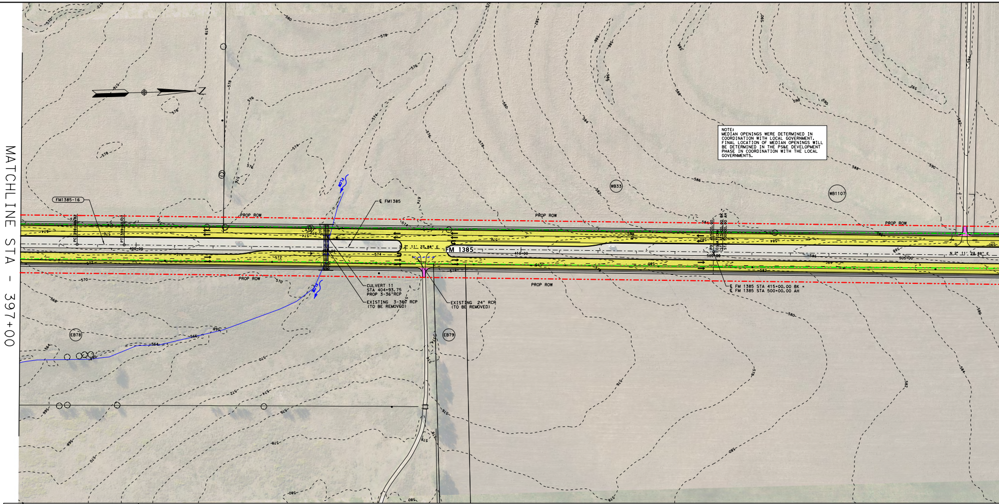

160'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
50'
TAPER

TYPICAL LEFT-TURN BAY DETAILS (30 MPH)
N.T.S

CURVE DATA TABLE

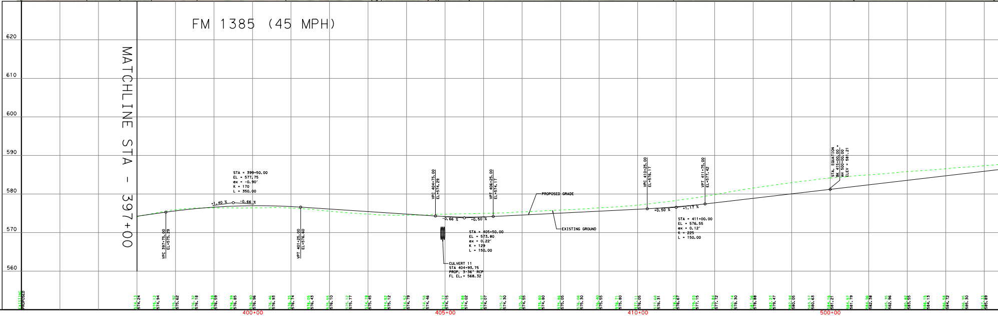
CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM1385-16	0° 10' 30.44" (RT)	0° 08' 35.66"	61.13'	122.26'	40000.00'	399+07.95	398+46.82	399+69.07
FM1385-101	60° 48' 58.11" (LT)	3° 49' 10.99"	880.33'	1,592.16	1500'	522+08.90	513+28.57	529+20.73
FM1385-102	60° 27' 17.69" (RT)	4° 46' 28.73"	699.19'	1,266.16	1200	563+37.48	556+38.29	569+04.46
PREFM1385_3-1	45° 58' 03.41" (LT)	3° 49' 10.99"	636.21'	1203.43'	1500'	107+12.56	100+76.35	112+79.78

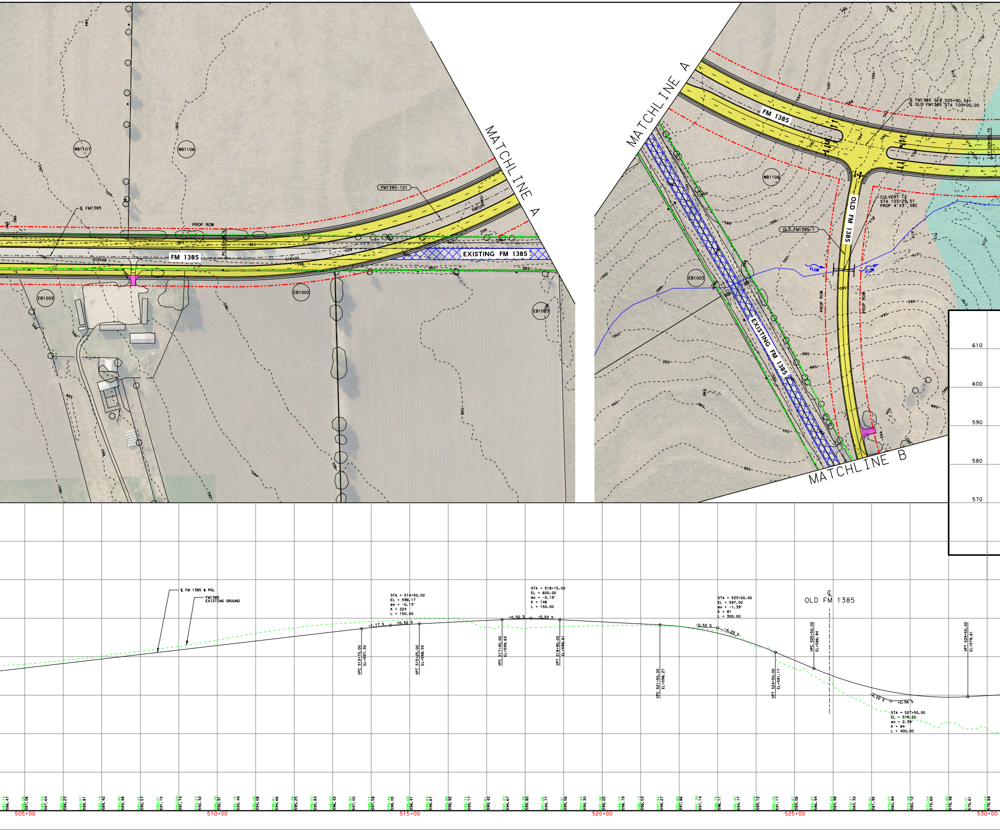
PRELIMINARY
NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES

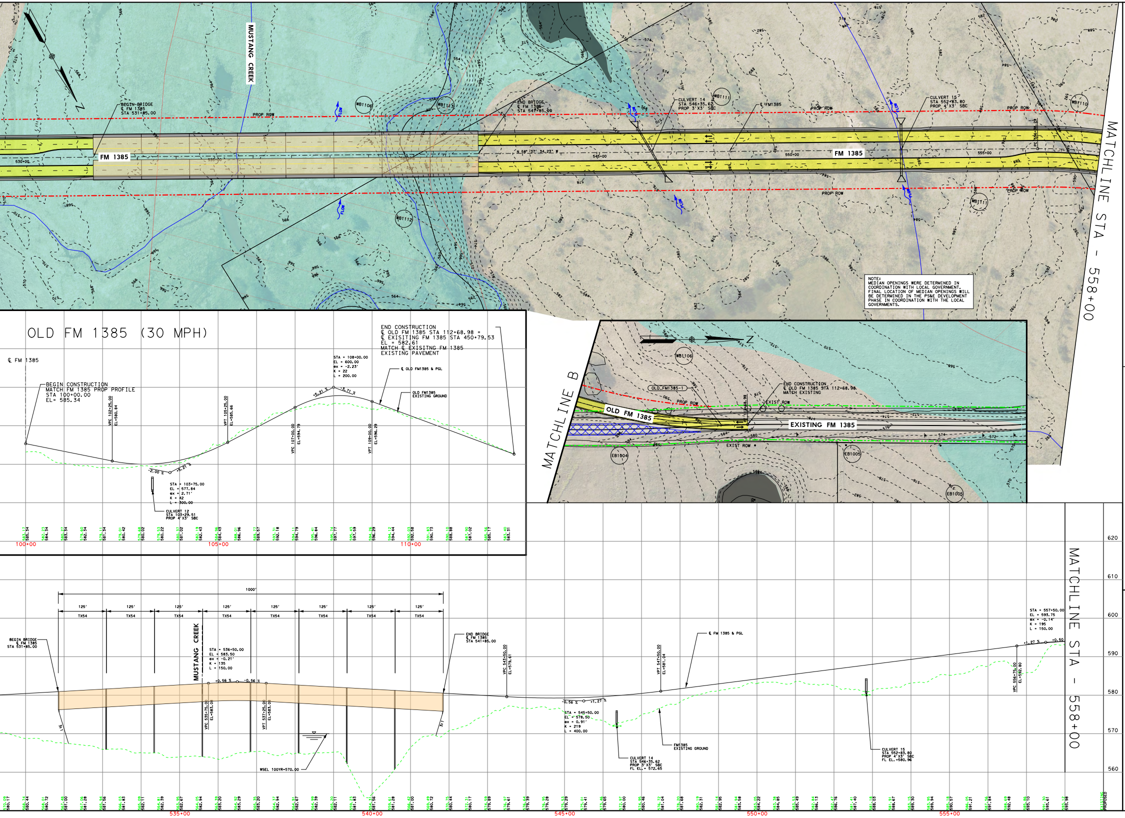

MATCHLINE STA - 397+00
FM1385-16
PROP ROW
℄ FM1385
FLOW
N 2° 11' 23.88" E
FM 1385
CULVERT 11
STA 404+93.75
PROP 3-36"RCP
EXISTING 3-36" RCP
(TO BE REMOVED)
EXISTING 24" RCP
(TO BE REMOVED)
℄ FM 1385 STA 415+00.00 BK =
℄ FM 1385 STA 500+00.00 AH
EB78
EB79
WB33
WB1107
400+00
410+00
505+00

NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

FM 1385 (45 MPH)


MATCHLINE STA - 397+00
620
610
600
590
580
570
560
VPC 397+75.00
EL=575.29
+1.40 %
-0.66 %
STA = 399+50.00
EL = 577.75
ex = -0.90'
K = 170
L = 350.00
VPT 401+25.00
EL=576.60
VPC 404+75.00
EL=574.29
-0.66 %
+0.50 %
STA = 405+50.00
EL = 573.80
ex = 0.22'
K = 129
L = 150.00
VPT 406+25.00
EL=574.17
CULVERT 11
STA 404+93.75
PROP. 3-36" RCP
FL EL.= 568.32
PROPOSED GRADE
EXISTING GROUND
VPC 410+25.00
EL=576.17
+0.50 %
+1.17 %
STA = 411+00.00
EL = 576.55
ex = 0.12'
K = 225
L = 150.00
VPT 411+75.00
EL=577.42
STA. EQUATION
BK 415+00.00 =
AH 500+00.00
ELEV = 581.21
EXISTING
PROPOSED
400+00
405+00
410+00
500+00


MATCHLINE A
MATCHLINE A
MATCHLINE B
FM 1385
FM 1385
EXISTING FM 1385
EXISTING FM 1385
OLD FM 1385
℄ FM1385
PROP ROW
PROP ROW
PROP ROW
FM1385-101
OLD_FM1385-1
WB1107
WB1106
WB1106
EB1002
EB1002
EB1003
EB1003
510+00
515+00
520+00
℄ FM1385 STA 525+90.34=
℄ OLD FM1385 STA 100+00.00
CULVERT 12
STA 103+29.51
PROP 4'X3' SBC
FLOW
FLOW
610
600
590
580
570
℄ FM 1385 & PGL
FM1385
EXISTING GROUND
STA = 514+50.00
EL = 598.17
ex = -0.13'
K = 224
L = 150.00
STA = 518+15.00
EL = 600.00
ex = -0.19'
K = 148
L = 150.00
STA = 523+00.00
EL = 597.50
ex = -1.39'
K = 81
L = 300.00
STA = 527+50.00
EL = 578.50
ex = 2.39'
K = 84
L = 400.00
℄
OLD FM 1385
+1.17 %
+0.50 %
+0.50 %
-0.52 %
-0.52 %
-4.22 %
-4.22 %
+0.56 %
VPC 513+75.00 EL=597.30
VPT 515+25.00 EL=598.55
VPC 517+40.00 EL=599.63
VPT 518+90.00 EL=599.61
VPC 521+50.00 EL=598.27
VPT 524+50.00 EL=591.17
VPC 525+50.00 EL=586.94
VPT 529+50.00 EL=579.61
587.73 586.47
588.06 587.06
588.50 587.64
589.04 588.23
589.57 588.81
590.19 589.40
590.80 589.98
591.42 590.57
592.01 591.15
592.64 591.74
593.43 592.32
594.28 592.91
595.18 593.49
596.08 594.08
596.81 594.66
597.48 595.25
598.07 595.83
598.50 596.42
598.82 597.00
599.13 597.58
599.40 598.05
599.68 598.41
599.84 598.67
599.88 598.92
599.34 599.17
597.61 599.42
597.83 599.67
597.38 599.80
597.66 599.77
597.91 599.56
597.94 599.30
597.96 599.05
598.12 598.79
598.13 598.53
597.94 598.27
597.86 597.86
597.39 597.14
596.78 596.11
595.45 594.77
592.69 593.12
589.26 591.17
586.87 589.06
584.93 586.94
582.69 584.98
579.37 583.32
576.81 581.95
575.07 580.89
573.98 580.12
572.54 579.65
572.80 579.48
571.21 579.61
571.24 579.89
505+00
510+00
515+00
520+00
525+00
530+00


MUSTANG CREEK
BEGIN BRIDGE
℄ FM 1385
STA 531+85.00
PROP ROW
FM 1385
530+00
535+00
WB1106
WB1113
WB1112
FLOW
END BRIDGE
℄ FM 1385
STA 541+85.00
N 58° 37' 34.23" W
545+00
CULVERT 14
STA 546+35.62
PROP 3'X3' SBC
℄ FM1385
WB1111
550+00
555+00
CULVERT 15
STA 552+83.80
PROP 4'X3' SBC
PC 556+38.29
WB1110
MATCHLINE STA - 558+00
OLD FM 1385 (30 MPH)
℄ FM 1385
BEGIN CONSTRUCTION
MATCH FM 1385 PROP PROFILE
STA 100+00.00
EL= 585.34
VPC 102+25.00
EL=580.84
VPT 105+25.00
EL=585.66
-2.00 %
+5.21 %
STA = 103+75.00
EL = 577.84
ex = 2.71'
K = 42
L = 300.00
CULVERT 12
STA 103+29.51
PROP 4'X3' SBC
VPC 107+00.00
EL=594.79
STA = 108+00.00
EL = 600.00
ex = -2.23'
K = 22
L = 200.00
-3.71 %
VPT 109+00.00
EL=596.29
℄ OLD FM1385 & PGL
OLD FM1385
EXISTING GROUND
END CONSTRUCTION
℄ OLD FM 1385 STA 112+68.98 =
℄ EXISITING FM 1385 STA 450+79.53
EL = 582.61
MATCH ℄ EXISITNG FM 1385
EXISTING PAVEMENT
100+00
105+00
110+00
MATCHLINE B
WBL106
OLD_FM1385-1
OLD FM 1385
PROP ROW
END CONSTRUCTION
℄ OLD FM 1385 STA 112+68.98
MATCH EXISTING
EXIST ROW
EXISTING FM 1385
EB1004
EB1005
1000'
125'
TX54
BEGIN BRIDGE
℄ FM 1385
STA 531+85.00
STA = 536+50.00
EL = 583.50
ex = -0.21'
K = 135
L = 150.00
+0.56 %
-0.56 %
VPC 535+75.00
EL=583.08
VPT 537+25.00
EL=583.08
3:1
WSEL 100YR=570.00
END BRIDGE
℄ FM 1385
STA 541+85.00
VPC 543+50.00
EL=579.61
-0.56 %
+1.27 %
STA = 545+50.00
EL = 578.50
ex = 0.91'
K = 219
L = 400.00
CULVERT 14
STA 546+35.62
PROP 3'X3' SBC
FL EL.= 572.65
VPT 547+50.00
EL=581.04
℄ FM 1385 & PGL
FM1385
EXISTING GROUND
CULVERT 15
STA 552+83.80
PROP 4'X3' SBC
FL EL.=580.96
VPC 556+75.00
EL=592.80
STA = 557+50.00
EL = 593.75
ex = -0.14'
K = 195
L = 150.00
+0.50
MATCHLINE STA - 558+00
620
610
600
590
580
570
560
535+00
540+00
545+00
550+00
555+00
EXISTING
PROPOSED

NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER
DENTON COUNTY

FM 1385

FROM: US 380 TO FM 455
CSJ: 1315-01-030

FUNCTIONAL CLASS: URBAN MAJOR COLLECTOR

DESIGN SPEED: 45 mph (FM 1385)
30 mph (CROSS-ST)

PROJECT LENGTH: 12.03 MILES

INDEX OF SHEETS:
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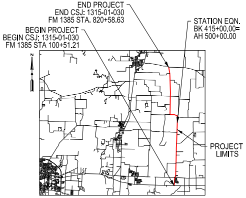
ROLL 2: UNION PARK BLVD TO NORTH OF WINN RIDGE RD - STA 170+00 TO STA 245+00
ROLL 3: NORTH OF WINN RIDGE RD TO RANCHETTE RD - STA 245+00 TO STA 322+00
ROLL 4: RANCHETTE RD TO NORTH OF FM 428 WEST - STA 322+00 TO STA 397+00
ROLL 5: NORTH OF FM 428 WEST TO MUSTANG CREEK - STA 397+00 TO STA 558+00
ROLL 6: MUSTAND CREEK TO NORTH OF JOE ALLEN RD - STA 558+00 TO STA 635+00
ROLL 7: NORTH OF JOE ALLEN RD TO NORTH OF FRIENDSHIP RD - STA 635+00 TO STA 713+00
ROLL 8: NORTH OF FRIENDSHIP RD TO STRITTMATTER RD - STA 713+00 TO STA 791+00
ROLL 9: STRITTMATTER RD TO FM 455 - STA 791+00 TO STA 820+58.63


END PROJECT
END CSJ: 1315-01-030
FM 1385 STA. 820+58.63
BEGIN PROJECT
BEGIN CSJ: 1315-01-030
FM 1385 STA 100+51.21
STATION EQN.
BK 415+00.00=
AH 500+00.00
N
PROJECT LIMITS

DENTON COUNTY
LOCATION MAP
N.T.S.

SEPTEMBER 2020

HORIZ SCALE: 1"=100'
0 50 100 150 200
VERTICAL SCALE: 1"=10'
0 5 10 15 20

HOWARD COLUMBUS GIBBS III, P.E.
(TX PE NO. 100239)

TIMOTHY M. NESBITT, P.E.
(TX PE NO. 66648)

DATE SUBMITTED
9/11/2020

DATE APPROVED

DATE REVISED

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ROLL 5 OF 9

Lina T. Ramey & Associates, Inc.
3320 Belt Line Rd
Farmers Branch, Texas 75234
TBPE Registration No. F-782

CIVIL ASSOCIATES, INC.
CAI
9330 LBJ Frwy, Ste. 1150
Dallas, Texas 75243
TBPE Firm Registration No. 6981

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