Texas Department of Transportation®

DALLAS DISTRICT

DESIGN SCHEMATIC

JAMES K. SELMAN, P.E., DISTRICT ENGINEER

DENTON COUNTY
SL 288

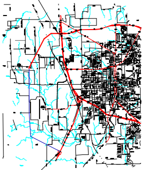
PROJECT LIMIT: FROM I.H. 35W
TO I.H. 35
CONTROL: 2250-02-013
2250-02-014

FUNCTIONAL CLASS: RURAL FREEWAY

DESIGN SPEED: 70 mph FREEWAY
45 mph FRONTAGE ROADS
50 mph RAMPS
30 mph CROSS STREETS

PROJECT LENGTH = 9.0 MILES

END PROJECT
STA 524+00.00
CSJ: 2250-02-013



BEGIN PROJECT
STA 109+00.00
CSJ: 2250-02-014

LOCATION MAP

MARCH 2017
SCALE: 1"=200' H

CP&Y

	DATE: MARCH 2017
THOMAS COCHILL	P.E. NO. 87665

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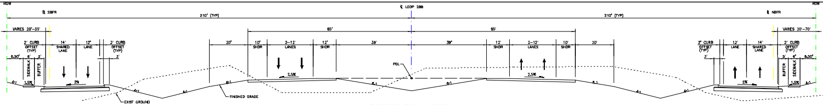
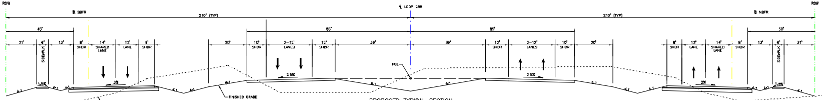

ROW
℄ SBFR
℄ LOOP 288
℄ NBFR
210' (TYP)
VARIES 20'-55'
VARIES 20'-70'
65'
2' CURB OFFSET (TYP)
14' SHARED LANE
12' LANE
20'
10' SHDR
2-12' LANES
12' SHDR
39'
PGL
SIDEWALK
BUFFER
EXIST GROUND
FINISHED GRADE
2.5%
2%
1.5%
6:1
4:1

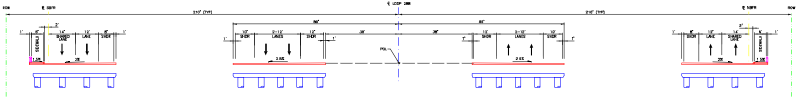
PROPOSED TYPICAL SECTION

STA 109+00.00 TO STA 138+41.86, STA 141+43.04 TO STA 181+60.00, STA 184+40.00 TO STA 222+90.00,
STA 229+15.00 TO STA 233+65.00, STA 243+40.00 TO STA 260+91.00, STA 263+71.00 TO STA 324+54.00,
STA 339+06.00 TO STA 375+61.00, STA 378+76.00 TO STA 414+45.00, STA 417+40.00 TO STA 429+97.32,
STA 438+40.35 TO STA 476+55.00, STA 489+30.00 TO STA 524+00.00


ROW
℄ SBFR
℄ LOOP 288
℄ NBFR
210' (TYP)
45'
50'
65'
21'
6'
13'
8' SHDR
14' SHARED LANE
12' LANE
10' SHDR
2-12' LANES
12' SHDR
20'
39'
31'
PGL
SIDEWALK
EXIST GROUND
FINISHED GRADE

PROPOSED TYPICAL SECTION

STA 429+97.32 TO STA 438+40.35


ROW
℄ SBFR
℄ LOOP 288
℄ NBFR
210' (TYP)
88'
1'
6'
2'
14' SHARED LANE
12' LANE
8' SHDR
10' SHDR
2-12' LANES
12' SHDR
38'
PGL
SIDEWALK

SOUTHBOUND

STA 3125+06.05 TO STA 3131+27.16,
STA 3136+22.91 TO STA 3146+97.91,
STA 3226+18.19 TO STA 3234+91.48,
STA 3380+86.59 TO STA 3393+91.86

PROPOSED TYPICAL SECTION

STA 138+41.86 TO STA 141+43.04, STA 181+60.00 TO STA 184+40.00, STA 222+90.00 TO STA 229+15.00,
STA 233+65.00 TO STA 243+40.00, STA 260+91.00 TO STA 263+71.00, STA 324+54.00 TO STA 339+06.00,
STA 375+61.00 TO STA 378+76.00, STA 414+45.00 TO STA 417+40.00, STA 476+55.00 TO STA 489+30.00

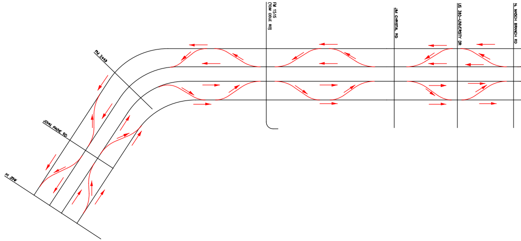
NORTHBOUND

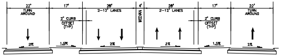
STA 2120+93.51 TO STA 2127+22.40,
STA 2131+26.64 TO STA 2140+01.64,
STA 2223+09.36 TO STA 2229+72.76,
STA 2372+54.15 TO STA 2384+98.87

LEGEND:

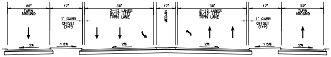
- 🟨 MAINLANE
- 🟩 FRONTAGE ROADS
- 🟧 CROSS STREETS
- 🟦 RAMPS
- 🟥 BRIDGE
- ▨ TEMPORARY CONNECTION
- 🟩 SIDEWALK
- 🟪 DRIVEWAY
- -·-·- DRAINAGE EASEMENT
- —‖— CONTROL OF ACCESS
- -··- EXISTING ROW
- -·-·- PROPOSED ROW
- - - - RETAINING WALL
- (XXXXX-X) CURVE NUMBER

50 25 0 50 100
SCALE FEET

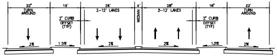

FM 2449
JOHN PAINE RD
IH 35W
FM 1515 (TOM COLE RD)
JIM CHRISTAL RD
US 380-UNIVERSITY DR
N. MASCH BRANCH RD


22'
TURN AROUND
17'
2' CURB OFFSET (TYP)
28'
2-12' LANES
4'
MEDIAN
28'
2-12' LANES
17'
2' CURB OFFSET (TYP)
22'
TURN AROUND
2%
1.5%
2%
2%
1.5%
2%

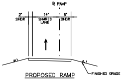
PROPOSED INTERSECTION
TYPICAL SECTION
FM 2449


22'
TURN AROUND
17'
1' CURB OFFSET (TYP)
36'
2-12' LANES W/12' LEFT TURN LANE
17'
MEDIAN
36'
2-12' LANES W/12' LEFT TURN LANE
17'
1' CURB OFFSET (TYP)
22'
TURN AROUND
2%
1.5%
2%
2%
1.5%
2%

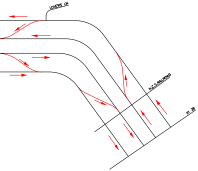
PROPOSED INTERSECTION
TYPICAL SECTION
W UNIVERSITY DR – US 380


22'
TURN AROUND
16'
2' CURB OFFSET (TYP)
28'
2-12' LANES
4'
MEDIAN
28'
2-12' LANES
16'
2' CURB OFFSET (TYP)
22'
TURN AROUND
2%
1.5%
2%
2%
1.5%
2%

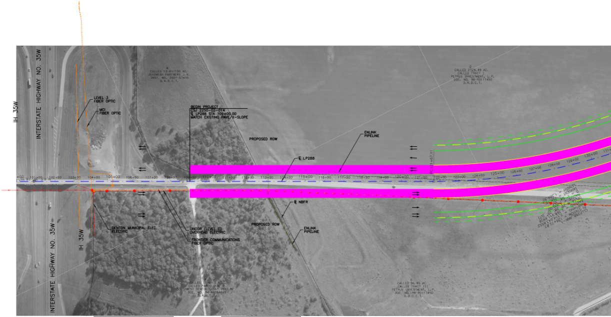
PROPOSED INTERSECTION
TYPICAL SECTION
JOHN PAINE RD, FM 1515,
JIM CHRISTAL RD,
N MASCH BRANCH RD


℄ RAMP
2'
SHDR
14'
SHARED LANE
6'
SHDR
4:1
4:1
FINISHED GRADE

PROPOSED RAMP
TYPICAL SECTION


LOVERS LN
K.C.S. RAILROAD
IH 35

PRELIMINARY


IH 35W
INTERSTATE HIGHWAY NO. 35W
LEVEL 3 FIBER OPTIC
MCI FIBER OPTIC
CALLED 13-83/100 AC.
JEREMIAH PARTNERS J.V.
INST. NO. 2007-57435
D.R.D.C.T.
BEGIN PROJECT
CSJ 2250-02-014
℄ LP288 STA 109+00.00
MATCH EXISTING PAVE/X-SLOPE
PROPOSED ROW
℄ LP288
ENLINK PIPELINE
℄ NBFR
PROPOSED ROW
ENLINK PIPELINE
DENTON MUNICIPAL ELEC. ELECTRIC
ONCOR (LEVEL C) OVERHEAD ELECTRIC
FRONTIER COMMUNICATIONS FIBER OPTIC
IH 35W
INTERSTATE HIGHWAY NO. 35W
CALLED 2329.49 AC.
CALLED TRACT I
PETRUS INVESTMENT, L.P.
DOC. NO. 98-R0117450
D.R.D.C.T.
CALLED 96.85 AC.
CALLED TRACT III
PETRUS INVESTMENT, L.P.
DOC. NO. 98-R0117450
D.R.D.C.T.
PC 121+67.11
101+00
102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
119+00
120+00
121+00
122+00
123+00
124+00
125+00
126+00
127+00
128+00
129+00
130+00

NORTHBOUND	
STATION	CROSS SLOPE
109+00.00	-2.0
122+50.00	-2.5
128+19.76	-2.5
133+49.76	5.3
145+24.06	5.3
150+54.06	-2.5
163+21.19	-2.5
165+61.19	-6.0
201+85.37	-6.0
204+25.37	-2.5

SOUTHBOUND	
STATION	CROSS SLOPE
109+00.00	-2.0
128+75.15	-2.5
130+91.76	-2.5
132+91.76	-5.3
145+92.06	-5.3
147+82.06	-2.5
160+49.19	-2.5
166+29.19	6.0
201+19.37	6.0
206+97.37	-2.6

BLNBFR-5
PI STATION = 2048+73.13
NORTHING = 7,114,709.2876
EASTING = 2,368,105.8672
DELTA = 4° 51' 20" (RT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 63.60'
LENGTH = 127.12'

BLNBFR-6
PI STATION = 2088+33.74
NORTHING = 7,114,703.6558
EASTING = 2,364,145.1906
DELTA = 92° 40' 27" (RT)
RADIUS = 2,112.00'
D = 2° 42' 46"
TANGENT = 2,212.95'
LENGTH = 3,416.10'

BLSBFR-1
PI STATION = 3027+19.99
NORTHING = 7,113,807.4932
EASTING = 2,369,965.0561
DELTA = 6° 49' 19" (LT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 89.40'
LENGTH = 178.60'

BLSBFR-2
PI STATION = 3030+58.53
NORTHING = 7,113,820.3052
EASTING = 2,369,647.7695
DELTA = 6° 49' 19" (RT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 89.40'
LENGTH = 178.60'

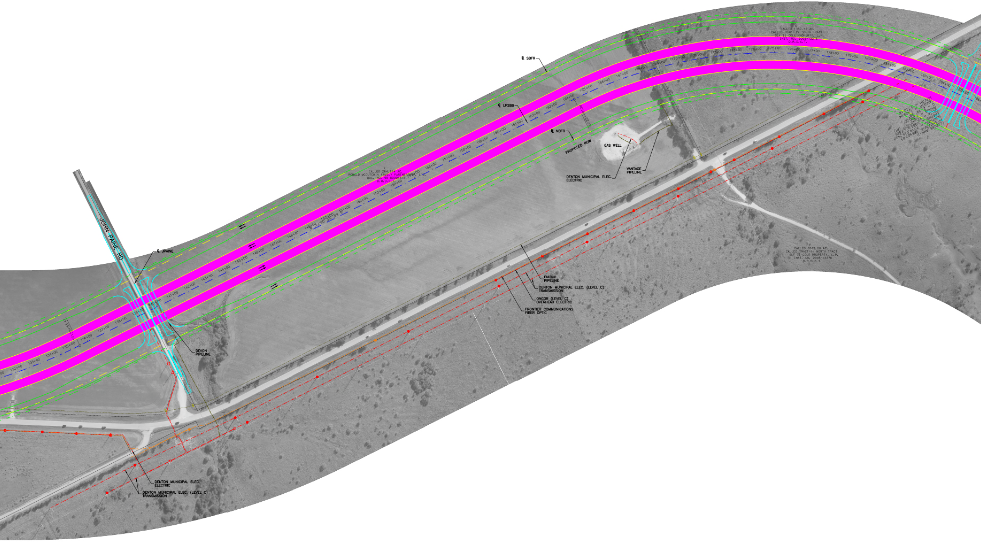
BLSBFR-3
PI STATION = 3037+09.17
NORTHING = 7,114,210.5366
EASTING = 2,369,082.9714
DELTA = 18° 58' 59" (LT)
RADIUS = 2,772.00'
D = 2° 04' 01"
TANGENT = 463.45'
LENGTH = 918.41'

BLSBFR-4
PI STATION = 3042+08.29
NORTHING = 7,114,276.0189
EASTING = 2,368,559.5985
DELTA = 3° 22' 22" (RT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 44.16'
LENGTH = 88.30'

BLSBFR-5
PI STATION = 3045+15.48
NORTHING = 7,114,333.5033
EASTING = 2,368,257.8117
DELTA = 10° 51' 58" (LT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 142.68'
LENGTH = 284.47'

BLSBFR-6
PI STATION = 3069+51.64
NORTHING = 7,114,330.0380
EASTING = 2,365,820.7989
DELTA = 24° 23' 52" (RT)
RADIUS = 2,488.00'
D = 2° 18' 10"
TANGENT = 537.88'
LENGTH = 1,059.45'

BLSBFR-7
PI STATION = 3078+23.16
NORTHING = 7,114,695.6217
EASTING = 2,365,011.7365
DELTA = 11° 25' 57" (RT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 150.15'
LENGTH = 299.30'


℄ SBFR
℄ LP288
℄ NBFR
℄ JPAINE
JOHN PAINE RD
PROPOSED ROW
GAS WELL
VANTAGE PIPELINE
DENTON MUNICIPAL ELEC. ELECTRIC
DEVON PIPELINE
ENLINK PIPELINE
DENTON MUNICIPAL ELEC. (LEVEL C) TRANSMISSION
ONCOR (LEVEL C) OVERHEAD ELECTRIC
FRONTIER COMMUNICATIONS FIBER OPTIC
DENTON MUNICIPAL ELEC. ELECTRIC
DENTON MUNICIPAL ELEC. (LEVEL C) TRANSMISSION
F
CALLED 264.914 AC.
RONALD MCCUTCHIN FAMILY PARTNERSHIP, LTD.
DOC. NO. 98-R0005578
D.R.D.C.T.
G
CALLED 1357.12 AC.
CALLED TRACT 2: SOUTH TRACT
SLF II COLE PROPERTY, L.P.
INST. NO. 2005-12276
D.R.D.C.T.
E
CALLED 2049.00 AC.
CALLED TRACT 1: NORTH TRACT
SLF II COLE PROPERTY, L.P.
INST. NO. 2005-12276
D.R.D.C.T.
PC 164+22.02
131+00
132+00
133+00
134+00
135+00
136+00
137+00
138+00
141+00
142+00
143+00
144+00
145+00
146+00
147+00
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171+00
172+00
173+00
174+00
175+00
176+00
177+00
178+00
179+00
180+00
181+00
182+00
183+00

CLLP288-1
PI STATION = 139+49.51
NORTHING = 7,114,522.4839
EASTING = 2,368,947.2891
DELTA = 26° 28' 35" (LT)
RADIUS = 3,000.00'
D = 1° 54' 35"
TANGENT = 705.75'
LENGTH = 1,386.30'

CLLP288-2
PI STATION = 189+23.13
NORTHING = 7,114,515.3759
EASTING = 2,363,948.4720
DELTA = 92° 40' 27" (RT)
RADIUS = 2,300.00'
D = 2° 29' 28"
TANGENT = 2,409.94'
LENGTH = 3,720.18'

BLNBFR-1
PI STATION = 2027+19.99
NORTHING = 7,114,144.2957
EASTING = 2,370,132.2089
DELTA = 6° 49' 19" (RT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 89.40'
LENGTH = 178.60'

BLNBFR-2
PI STATION = 2030+38.33
NORTHING = 7,114,328.7678
EASTING = 2,369,820.4668
DELTA = 6° 49' 19" (LT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 88.40'
LENGTH = 178.60'

BLNBFR-3
PI STATION = 2037+83.41
NORTHING = 7,114,652.8917
EASTING = 2,369,187.3875
DELTA = 18° 58' 59" (LT)
RADIUS = 3,228.00'
D = 1° 46' 30"
TANGENT = 539.69'
LENGTH = 1,069.49'

BLNBFR-4
PI STATION = 2044+77.48
NORTHING = 7,114,743.4456
EASTING = 2,368,501.2832
DELTA = 12° 20' 56" (LT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 162.28'
LENGTH = 323.29'

BLSBFR-8
PI STATION = 3083+55.90
NORTHING = 7,115,007.4502
EASTING = 2,364,578.5617
DELTA = 17° 23' 30" (RT)
RADIUS = 2,508.00'
D = 2° 17' 04"
TANGENT = 383.59'
LENGTH = 761.28'

BLSBFR-9
PI STATION = 3088+83.74
NORTHING = 7,115,434.4993
EASTING = 2,364,258.3954
DELTA = 11° 25' 57" (RT)
RADIUS = 1,500.00'
D = 3° 49' 11"
TANGENT = 150.15'
LENGTH = 299.30'

BLSBFR-10
PI STATION = 3098+53.48
NORTHING = 7,116,311.2014
EASTING = 2,363,841.6002
DELTA = 28° 01' 11" (RT)
RADIUS = 2,488.00'
D = 2° 18' 10"
TANGENT = 620.78'
LENGTH = 1,216.72'

IH35NBML-1
PI STATION = 12+08.62
NORTHING = 7,113,728.1413
EASTING = 2,370,939.2416
DELTA = 3° 02' 13" (LT)
RADIUS = 7,870.00'
D = 0° 43' 41"
TANGENT = 208.62'
LENGTH = 417.14'

IH35NBML-2
PI STATION = 16+82.56
NORTHING = 7,113,916.0873
EASTING = 2,370,504.0494
DELTA = 2° 19' 18" (RT)
RADIUS = 5,700.00'
D = 1° 00' 19"
TANGENT = 115.50'
LENGTH = 230.97'

IH35NBML-3
PI STATION = 21+24.42
NORTHING = 7,114,107.5734
EASTING = 2,370,105.8096
DELTA = 4° 56' 00" (LT)
RADIUS = 3,000.00'
D = 1° 54' 35"
TANGENT = 129.23'
LENGTH = 258.31'

IH35NBML-4
PI STATION = 28+51.88
NORTHING = 7,114,294.4757
EASTING = 2,369,612.3959
DELTA = 2° 24' 51" (RT)
RADIUS = 7,870.00'
D = 0° 43' 41"
TANGENT = 165.82'
LENGTH = 331.59'

NBMLFM24-1
PI STATION = 11+18.34
NORTHING = 7,114,810.2855
EASTING = 2,368,192.1933
DELTA = 1° 43' 22" (RT)
RADIUS = 7,870.00'
D = 0° 43' 41"
TANGENT = 118.34'
LENGTH = 236.65'

NBMLFM24-2
PI STATION = 27+41.94
NORTHING = 7,114,683.1047
EASTING = 2,366,570.8887
DELTA = 3° 00' 19" (LT)
RADIUS = 7,870.00'
D = 0° 43' 41"
TANGENT = 206.45'
LENGTH = 412.81'

NBMLTDMC-1
PI STATION = 12+05.30
NORTHING = 7,117,245.4550
EASTING = 2,364,147.1759
DELTA = 5° 13' 27" (RT)
RADIUS = 4,500.00'
D = 1° 16' 24"
TANGENT = 205.30'
LENGTH = 410.32'

NBMLTDMC-2
PI STATION = 17+75.19
NORTHING = 7,117,810.3290
EASTING = 2,364,224.7254
DELTA = 2° 08' 30" (LT)
RADIUS = 3,000.00'
D = 1° 54' 35"
TANGENT = 56.14'
LENGTH = 112.28'

SBMLIH35-1
PI STATION = 12+86.44
NORTHING = 7,113,343.0640
EASTING = 2,370,928.3138
DELTA = 3° 52' 41" (RT)
RADIUS = 7,870.00'
D = 0° 43' 41"
TANGENT = 266.44'
LENGTH = 532.68'

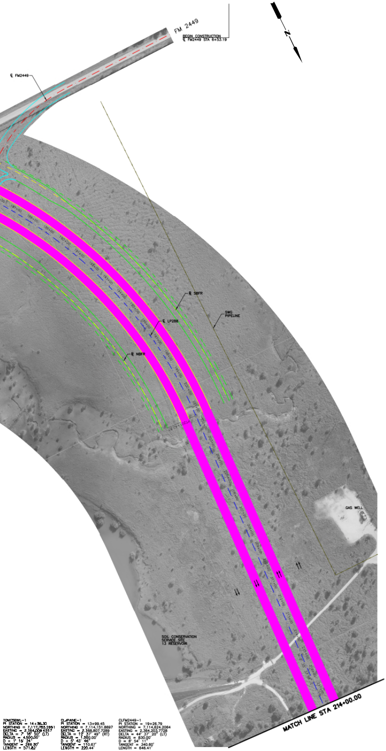
SBMLIH35-2
PI STATION = 27+53.58
NORTHING = 7,114,094.8807
EASTING = 2,369,843.7997
DELTA = 7° 40' 31" (LT)
RADIUS = 4,500.00'
D = 1° 16' 24"
TANGENT = 301.86'
LENGTH = 602.81'

SBMLIH35-3
PI STATION = 31+33.69
NORTHING = 7,114,241.2333
EASTING = 2,369,292.1227
DELTA = 3° 06' 34" (LT)
RADIUS = 2,913.00'
D = 1° 58' 01"
TANGENT = 79.08'
LENGTH = 158.09'

FM24SBML-1
PI STATION = 12+03.17
NORTHING = 7,114,434.1815
EASTING = 2,368,038.4878
DELTA = 5° 10' 13" (LT)
RADIUS = 4,500.00'
D = 1° 16' 24"
TANGENT = 203.17'
LENGTH = 406.07'

FM24SBML-2
PI STATION = 17+31.55
NORTHING = 7,114,385.8034
EASTING = 2,367,512.0580
DELTA = 2° 15' 49" (RT)
RADIUS = 3,000.00'
D = 1° 54' 35"
TANGENT = 59.27'
LENGTH = 118.52'

FM24SBML-3
PI STATION = 25+07.72
NORTHING = 7,114,345.3407
EASTING = 2,366,738.9199
DELTA = 2° 54' 24" (RT)
RADIUS = 7,870.00'
D = 0° 43' 41"
TANGENT = 199.87'
LENGTH = 399.26'


FM 2449
BEGIN CONSTRUCTION
℄ FM2449 STA 6+53.19
N
℄ FM2449
℄ SBFR
℄ LP288
℄ NBFR
SWG PIPELINE
GAS WELL
SOIL CONSERVATION SERVICE SITE 13 RESERVOIR
MATCH LINE STA 214+00.00

TONCSBML-1
PI STATION = 14+38.30
NORTHING = 7,117,763.2861
EASTING = 2,364,009.4557
DELTA = 7° 16' 50" (LT)
RADIUS = 4,500.00'
D = 1° 16' 24"
TANGENT = 286.30'
LENGTH = 571.82'

CLJPAINE-1
PI STATION = 13+99.45
NORTHING = 7,114,151.8697
EASTING = 2,368,807.7289
DELTA = 12° 37' 49" (RT)
RADIUS = 1,000.00'
D = 5° 43' 46"
TANGENT = 110.67'
LENGTH = 220.44'

CLFM2449-1
PI STATION = 19+26.79
NORTHING = 7,114,624.2064
EASTING = 2,364,203.7728
DELTA = 44° 37' 20" (LT)
RADIUS = 830.00'
D = 6° 54' 11"
TANGENT = 340.60'
LENGTH = 646.41'

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC
JAMES K. SELMAN, P.E., DISTRICT ENGINEER

DENTON COUNTY
SL 288

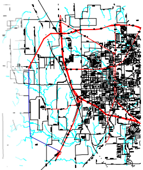
PROJECT LIMIT: FROM I.H. 35W
TO I.H. 35
CONTROL: 2250–02–013
2250–02–014

FUNCTIONAL CLASS: RURAL FREEWAY

DESIGN SPEED: 70 mph FREEWAY
45 mph FRONTAGE ROADS
50 mph RAMPS
30 mph CROSS STREETS

PROJECT LENGTH = 9.0 MILES

END PROJECT
STA 524+00.00
CSJ: 2250–02–013



BEGIN PROJECT
STA 109+00.00
CSJ: 2250–02–014

LOCATION MAP

MARCH 2017
SCALE: 1"=200' H

CP&Y

	DATE: MARCH 2017
THOMAS COCHILL	P.E. NO. 87665

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