Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED BUR, P.E., DISTRICT ENGINEER

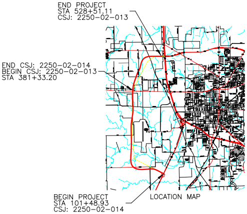
DENTON COUNTY
SL 288

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

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES


END PROJECT
STA 528+51.11
CSJ: 2250-02-013
END CSJ: 2250-02-014
BEGIN CSJ: 2250-02-013
STA 381+33.20
BEGIN PROJECT
STA 101+48.93
CSJ: 2250-02-014

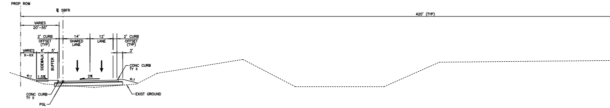
LOCATION MAP

MAY 2020
SCALE: 1"=100' H, 1"= 10' V
ROLL 7 OF 15

APPROVED SCHEMATIC NOT FOR CONSTRUCTION

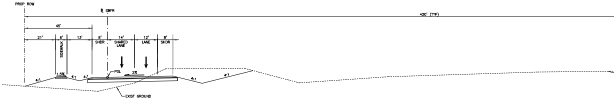
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL ONLY. THEY ARE NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

DATE: MAY 2020
THOMAS COCHILL P.E. NO. 87665


PROP ROW
℄ SBFR
420' (TYP)
VARIES
20'-55'
2' CURB
OFFSET
(TYP)
14'
SHARED
LANE
12'
LANE
2' CURB
OFFSET
(TYP)
VARIES
X-XX
6'
5'
3'
SIDEWALK
BUFFER
CONC CURB
TY II
4:1
1.5%
2%
4:1
CONC CURB
TY II
PGL
EXIST GROUND

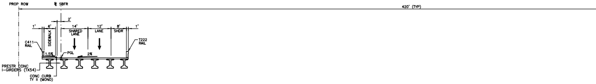
STA 3004+11.32 TO STA 3033+38.76, STA 3044+39.47 TO STA 3080+47.42,
STA 3092+33.89 TO STA 3126+67.02, STA 3153+06.20 TO STA 3163+76.30,
STA 3174+73.85 TO STA 3227+66.89, STA 3250+69.53 TO STA 3278+50.81,
STA 3290+69.06 TO STA 3318+01.71, STA 3328+36.41 TO STA 3337+42.85,
STA 3346+56.55 TO STA 3379+47.97, STA 3400+35.75 TO STA 3420+32.99

PROPOSED TYPICAL SECTION


PROP ROW
℄ SBFR
420' (TYP)
45'
21'
6'
13'
8'
SHDR
14'
SHARED
LANE
12'
LANE
8'
SHDR
SIDEWALK
PGL
1.5%
2%
4:1
4:1
4:1
4:1
4:1
4:1
EXIST GROUND

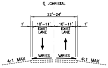
STA 3340+12.85 TO STA 3345+13.33

PROPOSED TYPICAL SECTION

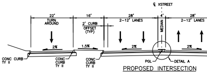

PROP ROW
℄ SBFR
420' (TYP)
2'
1'
6'
14'
SHARED
LANE
12'
LANE
8'
SHDR
1'
SIDEWALK
C411
RAIL
T222
RAIL
1.5%
PGL
2%
PRESTR CONC
I-GIRDERS (TX54)
CONC CURB
TY II (MONO)

STA 3129+57.02 TO STA 3135+78.13,
STA 3140+73.88 TO STA 3151+48.88,
STA 3230+67.14 TO STA 3239+50.43,
STA 3383+16.32 TO STA 3398+80.75

PROPOSED TYPICAL SECTION

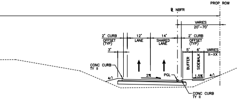

℄ JCHRISTAL
22'-24'
1'
10'-11'
EXIST
LANE
10'-11'
EXIST
LANE
1'
VARIES
VARIES
4:1 MAX
4:1 MAX

EXISTING TYPICAL SECTION

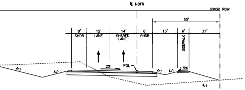

℄ XSTREET
22'
TURN
AROUND
16'
2' CURB
OFFSET
(TYP)
28'
2-12' LANES
4'
MEDIAN
28'
2-12' LANES
2%
1.5%
2%
2%
CONC CURB
TY II
CONC
CURB
TY II
CONC
CURB
TY II
PGL
DETAIL A

PROPOSED INTERSECTION
TYPICAL SECTION

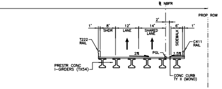
JOHN PAINE RD, TOM COLE RD/FM 1515,
JIM CHRISTAL RD,
N MASCH BRANCH RD


PROP ROW
℄ NBFR
VARIES
20'-70'
2' CURB OFFSET (TYP)
12' LANE
14' SHARED LANE
2' CURB OFFSET (TYP)
3'
5' BUFFER
6' SIDEWALK
VARIES X-XX
CONC CURB TY II
4:1
2%
PGL
1.5%
4:1
CONC CURB TY II

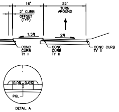
STA 2004+11.53 TO STA 2034+63.48, STA 2045+64.20 TO STA 2077+28.20,
STA 2088+94.15 TO STA 2122+92.29, STA 2146+54.53 TO STA 2158+14.92,
STA 2169+12.46 TO STA 2225+08.15, STA 2244+20.85 TO STA 2272+09.59,
STA 2284+27.82 TO STA 2330+29.00, STA 2338+25.15 TO STA 2372+22.26,
STA 2391+14.52 TO STA 2402+25.69


℄ NBFR
PROP ROW
50'
8' SHDR
12' LANE
14' SHARED LANE
8' SHDR
13'
6' SIDEWALK
31'
4:1
4:1
2%
PGL
4:1
4:1
1.5%
4:1

STA 2331+64.00 TO STA 2335+55.15


℄ NBFR
PROP ROW
2'
1'
8' SHDR
12' LANE
14' SHARED LANE
6' SIDEWALK
1'
T222 RAIL
C411 RAIL
2%
PGL
1.5%
PRESTR CONC I-GIRDERS (TX54)
CONC CURB TY II (MONO)

STA 2124+47.29 TO STA 2130+76.18,
STA 2134+80.42 TO STA 2143+55.42,
STA 2226+65.48 TO STA 2233+28.88,
STA 2375+42.20 TO STA 2388+24.66


16'
22'
2' CURB OFFSET (TYP)
TURN AROUND
1.5%
2%
CONC CURB TY II
CONC CURB TY II
CONC CURB TY II
0.0%
0.0%
PGL

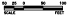
DETAIL A

GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED, SCHEMATICS ARE BASED ON AERIAL SURVEYS AND RECORD PLANS PROVIDED OCTOBER 2016.
2. TRAFFIC VOLUMES BASED ON NCTCOG MODEL AND WILL BE APPROVED BY TXDOT TP&P.
3. ADA RAMPS AND SIDEWALK ARE DESIGNED PER TEXAS ACCESSIBILITY STANDARDS. LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL LOCATIONS TO BE DETERMINED DURING PS&E DEVELOPMENT.
4. ACCESS DENIAL LIMITS ARE DETERMINED PER TXDOT ACCESS MANAGEMENT MANUAL.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
6. DRIVEWAY LOCATIONS ARE PRELIMINARY AND WILL BE FURTHER DEVELOPED DURING PS&E DEVELOPMENT.
7. EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED (UNLESS NOTED OTHERWISE).
8. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL'S AS SHOWN IN THE TYPICAL SECTIONS.
9. CURBS ON FRONTAGE ROADS AND CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
10. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS OTHERWISE NOTED).
11. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS 48121C0355G (2011).
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING PS&E DEVELOPMENT.
13. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DENTON COUNTY APPRAISAL DISTRICT (JULY 2018).

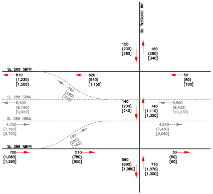
LEGEND:

🟩	FRONTAGE ROADS
🟪	CROSS STREETS
🟧	BRIDGE
▬	SIDEWALK
🟥	DRIVEWAY
🟨	PROPOSED ROADWAY BY ADJACENT PROJECT
☒	ASPHALT TO BE REMOVED
▨	FLOOD PLAINS
—‖—	CONTROL OF ACCESS
-·-·-	EXISTING ROW
-·-·-	PROPOSED ROW ACQUIRED BY ADJACENT PROJECT
-·-·-	PROPOSED ROW
-·-·-	DRAINAGE EASEMENT
—	CITY OF DENTON
XXXXX-X	CURVE NUMBER
SL-04	PARCEL NO.
----	EXISTING ELECTRIC LINE
----	EXISTING GAS LINE
----	EXISTING GAS LINE
----	EXISTING WASTEWATER LINE
----	EXISTING STORM SEWER LINE
----	EXISTING TELEPHONE LINE
----	EXISTING WATER LINE
—	FUTURE RAMP CONNECTION


50
25
0
50
100
SCALE
FEET

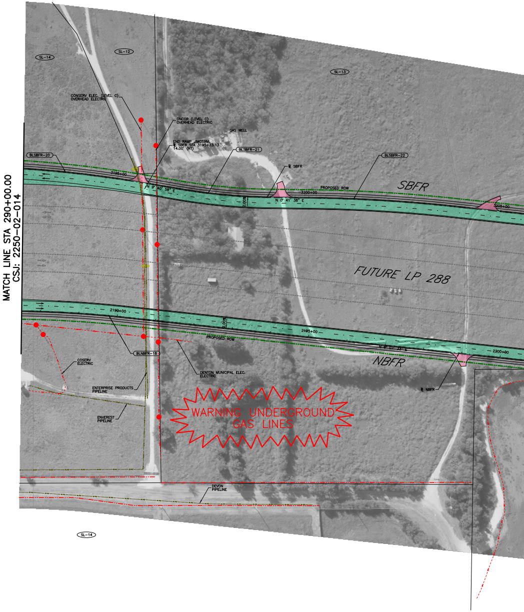
TRAFFIC DIAGRAM

N.T.S

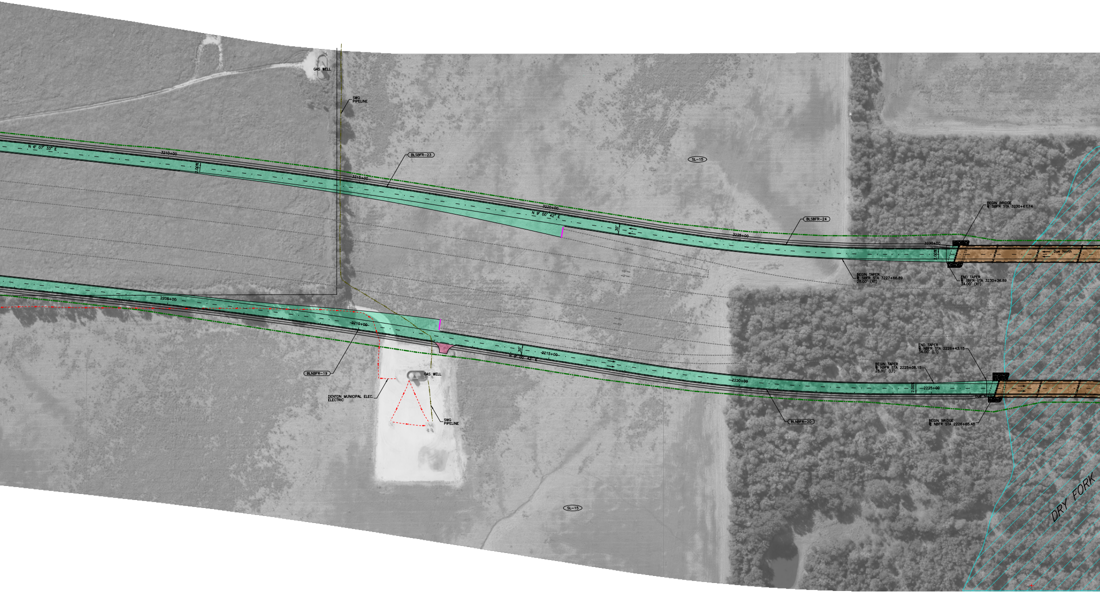

JIM CHRISTAL RD
150
(230)
[280]
180
(280)
[340]
SL 288 SBFR
810
(1,230)
[1,500]
620
(940)
[1,150]
50
(80)
[100]
190
(290)
[350]
SL 288 SBML
5,400
(8,140)
[9,920]
140
(200)
[240]
740
(1,110)
[1,350]
5,590
(8,430)
[10,270]
SL 288 NBML
4,750
(7,150)
[8,720]
4,940
(7,430)
[9,060]
190
(280)
[340]
SL 288 NBFR
700
(1,060)
[1,290]
510
(780)
[950]
30
(50)
[60]
590
(890)
[1,080]
710
(1,070)
[1,300]

LEGEND:

←	INTERIM TRAFFIC VOLUME X,XXX = 2020 ADT (X,XXX) = (2040) ADT [X,XXX] = [2050] ADT	⇠	ULTIMATE TRAFFIC VOLUME X,XXX= 2020 ADT (X,XXX)= (2040) ADT [X,XXX]= [2050] ADT	←	= ADT VOLUMES TO BE PROVIDED UNDER SEPARATE STUDY


MATCH LINE STA 290+00.00
CSJ: 2250-02-014
SL-14
SL-12
SL-13
CONSERV ELEC. (LEVEL C) OVERHEAD ELECTRIC
ONCOR (LEVEL C) OVERHEAD ELECTRIC
GAS WELL
END RAMP JIMCSBML
℄ SBFR STA 3195+73.13
14.00' (RT)
BLSBFR-20
BLSBFR-21
BLSBFR-22
℄ SBFR
3195+00
N 9° 40' 58" E
2.00%
N 0° 41' 38" E
3200+00
PROPOSED ROW
SBFR
3205+00
FUTURE LP 288
2190+00
2.00%
2195+00
PROPOSED ROW
2200+00
NBFR
BLNBFR-18
COSERV ELECTRIC
DENTON MUNICIPAL ELEC. ELECTRIC
ENTERPRISE PRODUCTS PIPELINE
ENVEREST PIPELINE
℄ NBFR
WARNING UNDERGROUND GAS LINES
DEVON PIPELINE
SL-14

TOPOGRAPHIC/AERIAL PHOTOGRAPHY: OCTOBER 2016


GAS WELL
SWG PIPELINE
N 6° 07' 33" E
3210+00
3215+00
BLSBFR-23
SL-15
3220+00
N 9° 00' 42" E
30'
BLSBFR-24
3225+00
3230+00
2.00'
BEGIN BRIDGE
℄ SBFR STA 3230+67.14
Due North
BEGIN TAPER
℄ SBFR STA 3227+66.89
28.00' (RT)
END TAPER
℄ SBFR STA 3230+36.89
34.00' (RT)
2205+00
2210+00
BLNBFR-19
GAS WELL
DENTON MUNICIPAL ELEC.
ELECTRIC
SWG PIPELINE
30'
2215+00
2220+00
BLNBFR-20
END TAPER
℄ NBFR STA 2226+43.15
34.00' (LT)
BEGIN TAPER
℄ NBFR STA 2225+08.15
28.00' (LT)
2.00'
2225+00
BEGIN BRIDGE
℄ NBFR STA 2226+65.46
SL-15
DRY FORK

PROPERTY INFORMATION

PARCEL NO.	PROPERTY ID	OWNERS NAME	OWNERS ADDRESS	SITUS ADDRESS	ACRES	DEED
SL-12	160701	DENTON, CITY OF	MUNICIPAL BUILDING 215 E MCKINNEY ST, DENTON, TX 76201	990 TOM COLE RD TX	5.21	2012-147184
SL-13	36717	NUCON STEEL COMMERCIAL CORP	NUCOR CORPORATION 1915 REXFORD RD, CHARLOTTE, NC 28211	7420 TOM COLE RD TX 76207	101.25	03-9932
	36630			7420 TOM COLE RD TX 76207	6.23	03-9933
SL-14	36618	DENTON, CITY OF	MUNICIPAL BUILDING 215 E MCKINNEY ST, DENTON, TX 76201	DENTON MUNICAL AIRPORT 76201	185.08	
	36643			TOM COLE RD TX 76259	141.65	2012-147183
SL-15	36616	CITY OF DENTON	215 E MCKINNEY ST, DENTON, TX 76201		118.44	2016-143882
	36713			8161 JIM CHRISTAL TX	97.41	2016-143882
	36554			MASCH BRANCH RD TX	15.80	2016-143882
	36607			8161 JIM CHRISTAL RD TX 76207	80.74	2016-143882
SL-16	36603	PATTERSON, WILLIAM DAVID	6488 JIM CHRISTAL RD, DENTON, TX 76207	6488 JIM CHRISTAL RD 76207	3.01	
SL-17	36602	JHR CONST CO INC	6540 JIM CHRISTAL RD, DENTON, TX 76207	JIM CHRISTAL RD 76207	2.95	99-0110735
SL-18	173441	LYBBERT FAMILY TRUST	PO BOX 340, DENTON, TX 76202	JIM CHRISTAL RD TX 76207	24.27	2009-5235
SL-19	78614	NOBLES, ROBERT H & JIMMIE G NOBLES CHARITABLE REMAINDER UNITRUST	748 THOMAS J EGAN RD, DENTON, TX 76207	JIM CHRISTAL RD TX 76207	96.69	
SL-20	36598	LYBBERT FAMILY TRUST	PO BOX 340, DENTON, TX 76202	JIM CHRISTAL RD TX 76207	25.34	2009-5235
	161791			TX	16.73	2009-5235
	36564			W US 380	2.09	2009-5235

CENTERLINE NBFR CURVE DATA

CURVE NO.	P.I STATION	P.I. NORTHING	P.I EASTING	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
BLNBFR_18	2188+49.36	7,125,369.03	2,364,298.25	6ÿ7'	2,812.00	2° 02' 15"	166.26	332.14	N 2° 44' 31" E	331.95	2186+83.09	2190+15.24	N 0° 38' 31" W	N 6° 07' 33" E
BLNBFR_19	2207+77.10	7,127,286.14	2,364,504.00	2ÿ7'	13,912.00	0° 24' 43"	350.43	700.72	N 7° 34' 07" E	700.64	2204+26.66	2211+27.38	N 6° 07' 33" E	N 9° 00' 42" E
BLNBFR_20	2220+70.71	7,128,563.93	2,364,706.65	9ÿ7'	4,188.00	1° 22' 05"	330.03	658.70	N 4° 30' 21" E	658.70	2217+40.68	2223+99.37	N 9° 00' 42" E	DUE NORTH
BLNBFR_21	2229+37.95	7,129,432.53	2,364,706.65	5ÿ7'	1,500.00	3° 49' 11"	65.49	130.90	N 2° 30' 00" E	130.86	2228+72.45	2230+03.35	DUE NORTH	N 5° 00' 00" E
BLNBFR_22	2232+24.71	7,129,718.28	2,364,731.65	5ÿ7'	1,500.00	3° 49' 11"	65.49	130.90	N 2° 30' 00" E	130.86	2231+59.21	2232+90.11	N 5° 00' 00" E	DUE NORTH
BLNBFR_23	2242+07.98	7,130,701.64	2,364,731.65	5ÿ7'	1,500.00	3° 49' 11"	65.49	130.90	N 2° 30' 00" W	130.86	2241+42.49	2242+73.39	DUE NORTH	N 5° 00' 00" W
BLNBFR_24	2244+94.74	7,130,987.39	2,364,706.65	5ÿ7'	1,500.00	3° 49' 11"	65.49	130.90	N 2° 30' 00" W	130.86	2244+29.25	2245+60.15	N 5° 00' 00" W	DUE NORTH

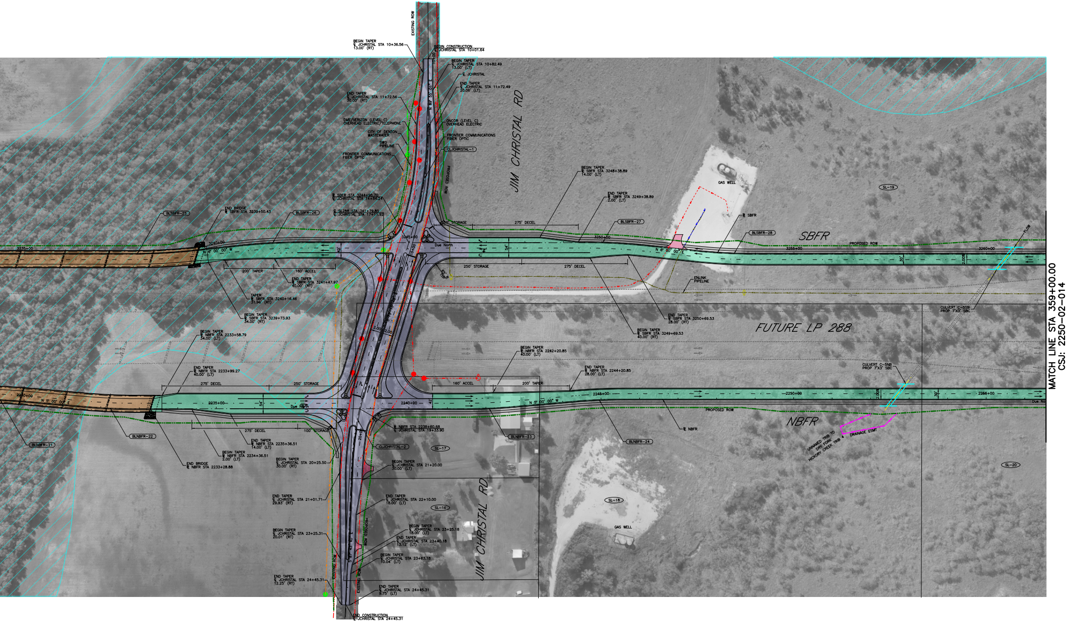
CENTERLINE SBFR CURVE DATA

CURVE NO.	P.I STATION	P.I. NORTHING	P.I EASTING	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
BLSBFR_20	3192+95.19	7,125,317.00	2,363,922.81	10ÿ7'	3,000.00	1° 54' 35"	271.03	540.59	N 4° 31' 14" E	539.86	3190+24.16	3195+64.75	N 0° 38' 31" W	N 9° 40' 58" E
BLSBFR_21	3197+82.66	7,125,798.97	2,364,005.04	8ÿ7'	1,500.00	3° 49' 11"	117.91	235.33	N 5° 11' 18" E	235.09	3196+64.75	3199+00.08	N 9° 40' 58" E	N 0° 41' 38" E
BLSBFR_22	3201+89.83	7,126,206.59	2,364,009.98	5ÿ7'	4,000.00	1° 25' 57"	189.75	379.21	N 3° 24' 35" E	379.07	3200+00.08	3203+79.2	N 0° 41' 38" E	N 6° 07' 33" E
BLSBFR_23	3213+25.12	7,127,335.68	2,364,131.16	2ÿ7'	14,288.00	0° 24' 04"	359.90	719.66	N 7° 34' 07" E	719.58	3209+65.21	3216+84.87	N 6° 07' 33" E	N 9° 00' 42" E
BLSBFR_24	3225+98.56	7,128,593.56	2,364,330.65	9ÿ7'	3,812.00	1° 30' 11"	300.40	599.56	N 4° 30' 21" E	598.94	3222+98.16	3228+97.72	N 9° 00' 42" E	DUE NORTH
BLSBFR_25	3238+57.68	7,129,853.92	2,364,330.65	6ÿ7'	1,500.00	3° 49' 11"	78.61	157.08	N 3° 00' 00" W	157.01	3237+79.07	3239+36.15	DUE NORTH	N 6° 00' 00" W
BLSBFR_26	3241+44.54	7,130,139.35	2,364,300.65	6ÿ7'	1,500.00	3° 49' 11"	78.61	157.08	N 3° 00' 00" W	157.01	3240+65.93	3242+23.01	N 6° 00' 00" W	DUE NORTH
BLSBFR_27	3250+33.88	7,131,028.84	2,364,300.65	6ÿ7'	1,500.00	3° 49' 11"	78.61	157.08	N 3° 00' 00" E	157.01	3249+55.27	3251+12.35	DUE NORTH	N 6° 00' 00" E
BLSBFR_28	3253+20.74	7,131,314.27	2,364,330.65	6ÿ7'	1,500.00	3° 49' 11"	78.61	157.08	N 3° 00' 00" E	157.01	3252+42.13	3253+99.21	N 6° 00' 00" E	DUE NORTH

CENTERLINE JCHRISTAL CURVE DATA

CURVE NO.	P.I STATION	P.I. NORTHING	P.I EASTING	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
CLJCHRISTAL_1	13+12.20	7,130,543.80	2,364,134.23	16ÿ7'	830.00	6° 54' 11"	122.96	244.14	S 81° 39' 23" E	243.26	11+89.25	14+33.38	N 89° 55' 01" E	S 73° 13' 48" E
CLJCHRISTAL_2	19+86.00	7,130,348.88	2,364,781.07	14ÿ7'	830.00	6° 54' 11"	105.57	210.02	S 80° 28' 44" E	209.46	18+80.42	20+90.44	S 73° 13' 48" E	S 87° 43' 40" E

N



EXISTING ROW
BEGIN TAPER ℄ JCHRISTAL STA 10+36.56 13.00' (RT)
BEGIN CONSTRUCTION ℄ JCHRISTAL STA 10+01.64
BEGIN TAPER ℄ JCHRISTAL STA 10+82.49 13.00' (LT)
℄ JCHRISTAL
END TAPER ℄ JCHRISTAL STA 11+72.49 20.06' (LT)
END TAPER ℄ JCHRISTAL STA 11+72.56 30.00' (RT)
N 89° 55' 01" E
DME/VERIZON (LEVEL C) OVERHEAD ELECTRIC/TELEPHONE
ONCOR (LEVEL C) OVERHEAD ELECTRIC
CITY OF DENTON WASTEWATER
FRONTIER COMMUNICATIONS FIBER OPTIC
SWG PIPELINE
CLJCHRISTAL-1
FRONTIER COMMUNICATIONS FIBER OPTIC
PROPOSED ROW
JIM CHRISTAL RD
B/L SBFR STA 3244+96.70 ℄ JCHRISTAL STA 14+84.24
℄ SL288 STA 341+79.85 ℄ JCHRISTAL STA 17+11.92
BLSBFR-25
END BRIDGE B/L SBFR STA 3239+50.43
BLSBFR-26
100' STORAGE
275' DECEL
3240+00
N 6° 00' 00" W
3245+00
15+00
Due North
42'
54'
200' TAPER
160' ACCEL
250' STORAGE
END TAPER B/L SBFR STA 3241+47.97 40.00' (RT)
TAPER B/L SBFR STA 3240+16.46 31.96' (RT)
BEGIN TAPER B/L SBFR STA 3239+73.93 34.00' (RT)
BEGIN TAPER B/L NBFR STA 2233+58.79 34.00' (LT)
END TAPER B/L NBFR STA 2233+99.27 40.00' (LT)
BEGIN TAPER B/L SBFR STA 3248+38.89 14.00' (LT)
END TAPER B/L SBFR STA 3249+38.89 2.00' (LT)
BLSBFR-27
3250+00
N 6° 00' 00" E
GAS WELL
B/L SBFR
BLSBFR-28
SBFR
PROPOSED ROW
3255+00
3260+00
30'
2.00%
FLOW
SL-19
ENLINK PIPELINE
END TAPER B/L SBFR STA 3250+69.53 28.00' (RT)
BEGIN TAPER B/L SBFR STA 3249+69.53 40.00' (RT)
FUTURE LP 288
CULVERT C-5SB PROP 7'X3' SBC
BEGIN TAPER B/L NBFR STA 2242+20.85 40.00' (LT)
END TAPER B/L NBFR STA 2244+20.85 28.00' (LT)
CULVERT C-5NB PROP 7'X3' SBC
275' DECEL
250' STORAGE
160' ACCEL
200' TAPER
2235+00
2240+00
2245+00
2250+00
2255+00
N 5° 00' 00" W
PROPOSED ROW
NBFR
B/L NBFR
BLNBFR-23
BLNBFR-24
UNNAMED TRIB TO DRY FORK HICKORY CREEK TRIB 4
DRAINAGE ESMT
SL-20
SL-18
GAS WELL
BLNBFR-21
BLNBFR-22
275' DECEL
100' STORAGE
END BRIDGE B/L NBFR STA 2233+28.88
BEGIN TAPER B/L NBFR STA 2234+36.51 2.00' (LT)
END TAPER B/L NBFR STA 2235+36.51 14.00' (LT)
B/L NBFR STA 2238+60.68 ℄ JCHRISTAL STA 19+33.90
CLJCHRISTAL-2
SL-17
BEGIN TAPER ℄ JCHRISTAL STA 20+25.50 30.00' (RT)
BEGIN TAPER ℄ JCHRISTAL STA 21+20.00 30.00' (LT)
END TAPER ℄ JCHRISTAL STA 21+01.71 29.93' (RT)
END TAPER ℄ JCHRISTAL STA 22+10.00 18.00' (LT)
SL-16
20+00
BEGIN TAPER ℄ JCHRISTAL STA 23+25.31 20.01' (RT)
BEGIN TAPER ℄ JCHRISTAL STA 23+25.18 18.00' (LT)
END TAPER ℄ JCHRISTAL STA 23+40.18 13.12' (LT)
BEGIN TAPER ℄ JCHRISTAL STA 23+63.18 10.04' (LT)
END TAPER ℄ JCHRISTAL STA 24+45.31 12.25' (RT)
END TAPER ℄ JCHRISTAL STA 24+45.31 9.75' (LT)
EXISTING ROW
END CONSTRUCTION ℄ JCHRISTAL STA 24+45.31
JIM CHRISTAL RD
MATCH LINE STA 359+00.00
CSJ: 2250-02-014

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED BUR, P.E., DISTRICT ENGINEER

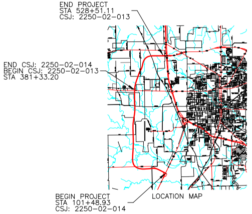
DENTON COUNTY
SL 288

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

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



END PROJECT STA 528+51.11 CSJ: 2250-02-013
END CSJ: 2250-02-014 BEGIN CSJ: 2250-02-013 STA 381+33.20
BEGIN PROJECT STA 101+48.93 CSJ: 2250-02-014
LOCATION MAP

MAY 2020
SCALE: 1"=100' H, 1"= 10' V
ROLL 7 OF 15

APPROVED SCHEMATIC NOT FOR CONSTRUCTION
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CP&Y

DATE: MAY 2020
THOMAS COCHILL P.E. NO. 87665

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY
SL 288

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TO I.H. 35
CONTROL: 2250–02–013
2250–02–014

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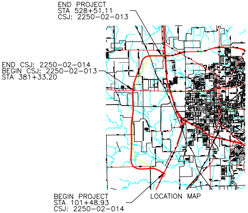
END PROJECT
STA 528+51.11
CSJ: 2250–02–013
END CSJ: 2250–02–014
BEGIN CSJ: 2250–02–013
STA 381+33.20
BEGIN PROJECT
STA 101+48.93
CSJ: 2250–02–014

LOCATION MAP

MAY 2020
SCALE: 1"=100' H, 1"= 10' V
ROLL 8 OF 15

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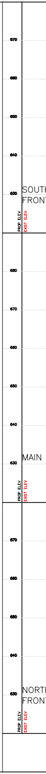
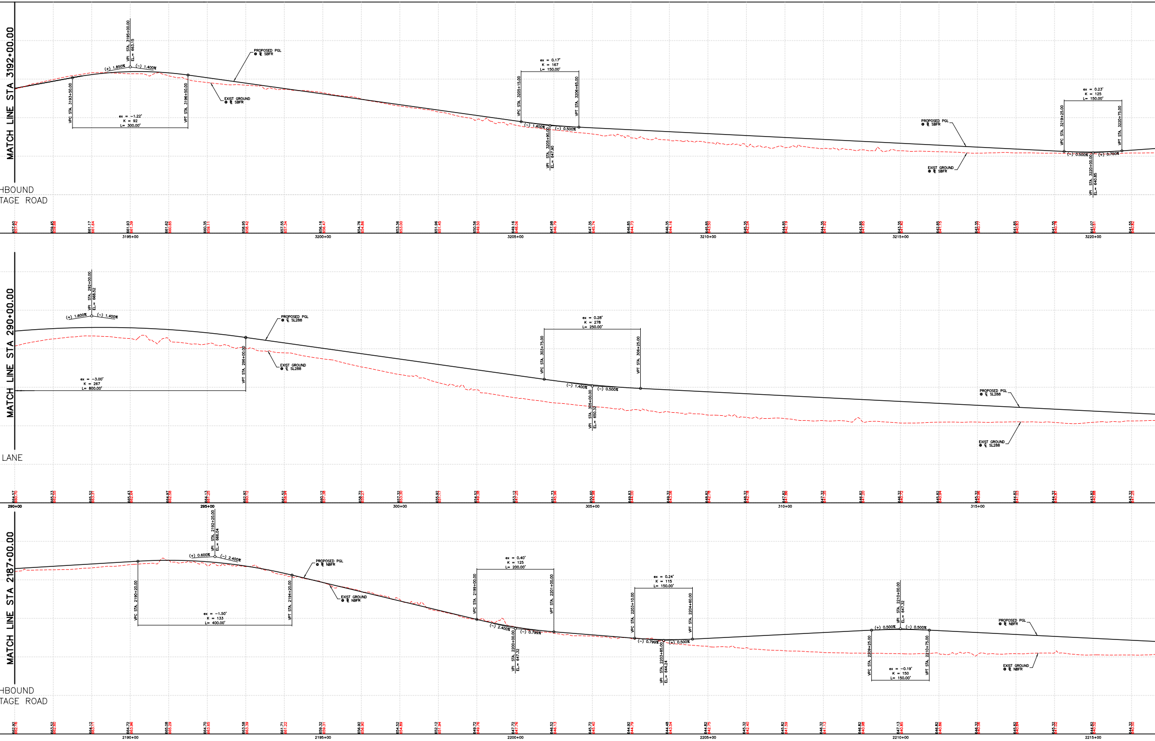
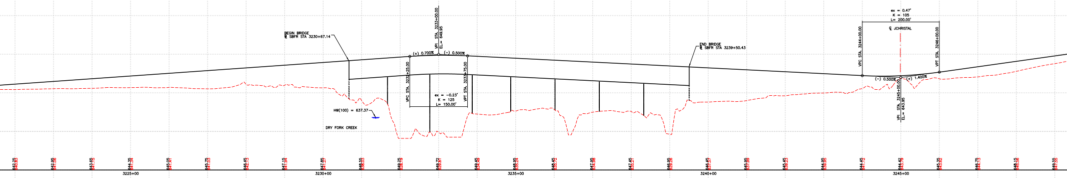
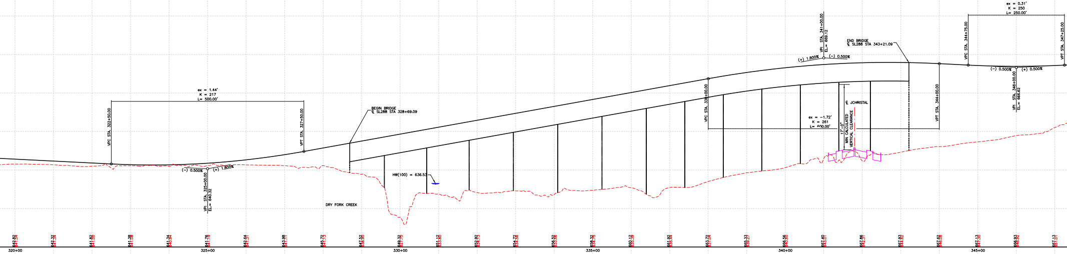
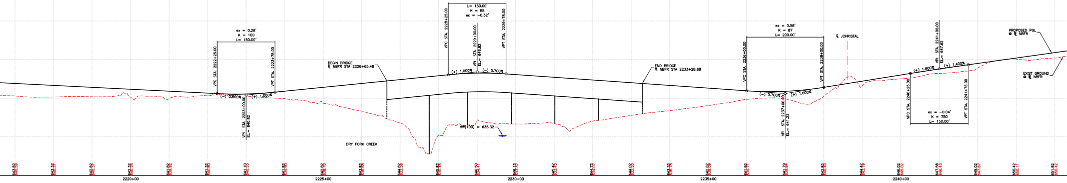
	DATE: MAY 2020
THOMAS COCHILL	P.E. NO. 87665

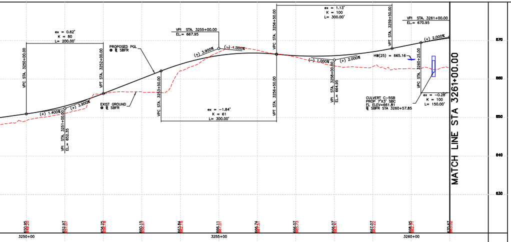

670
660
650
640
630
SOUT
FRON
PROP ELEV
EXIST ELEV
680
670
660
650
640
630
MAIN
PROP ELEV
EXIST ELEV
670
660
650
640
630
NORT
FRON
PROP ELEV
EXIST ELEV

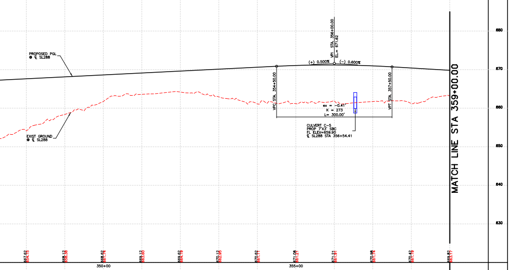

MATCH LINE STA 3192+00.00
HBOUND
TAGE ROAD
VPI STA. 3195+00.00
EL.= 663.15
(+) 1.850%
(−) 1.400%
VPC STA. 3193+50.00
VPT STA. 3196+50.00
ex = −1.22'
K = 92
L= 300.00'
PROPOSED PGL
@ ℄ SBFR
EXIST GROUND
@ ℄ SBFR
ex = 0.17'
K = 167
L= 150.00'
VPC STA. 3205+15.00
VPT STA. 3206+65.00
(−) 1.400%
(−) 0.500%
VPI STA. 3205+90.00
EL.= 647.90
PROPOSED PGL
@ ℄ SBFR
EXIST GROUND
@ ℄ SBFR
ex = 0.23'
K = 125
L= 150.00'
VPC STA. 3219+25.00
VPT STA. 3220+75.00
(−) 0.500%
(+) 0.700%
VPI STA. 3220+00.00
EL.= 640.85
3195+00
3200+00
3205+00
3210+00
3215+00
3220+00
MATCH LINE STA 290+00.00
LANE
VPI STA. 292+00.00
EL.= 668.52
(+) 1.600%
(−) 1.400%
PROPOSED PGL
@ ℄ SL288
EXIST GROUND
@ ℄ SL288
VPT STA. 296+00.00
ex = −3.00'
K = 267
L= 800.00'
ex = 0.28'
K = 278
L= 250.00'
VPC STA. 303+75.00
VPT STA. 306+25.00
(−) 1.400%
(−) 0.500%
VPI STA. 305+00.00
EL.= 650.32
PROPOSED PGL
@ ℄ SL288
EXIST GROUND
@ ℄ SL288
290+00
295+00
300+00
305+00
310+00
315+00
MATCH LINE STA 2187+00.00
HBOUND
TAGE ROAD
VPI STA. 2192+20.00
EL.= 666.04
(+) 0.600%
(−) 2.400%
VPC STA. 2190+20.00
VPT STA. 2194+20.00
ex = −1.50'
K = 133
L= 400.00'
PROPOSED PGL
@ ℄ NBFR
EXIST GROUND
@ ℄ NBFR
ex = 0.40'
K = 125
L= 200.00'
VPC STA. 2199+00.00
VPT STA. 2201+00.00
(−) 2.400%
(−) 0.799%
VPI STA. 2200+00.00
EL.= 647.32
ex = 0.24'
K = 115
L= 150.00'
VPC STA. 2203+10.00
VPT STA. 2204+60.00
(−) 0.799%
(+) 0.500%
VPI STA. 2203+85.00
EL.= 644.24
VPI STA. 2210+00.00
EL.= 647.32
(+) 0.500%
(−) 0.500%
VPC STA. 2209+25.00
VPT STA. 2210+75.00
ex = −0.19'
K = 150
L= 150.00'
PROPOSED PGL
@ ℄ NBFR
EXIST GROUND
@ ℄ NBFR
2190+00
2195+00
2200+00
2205+00
2210+00
2215+00

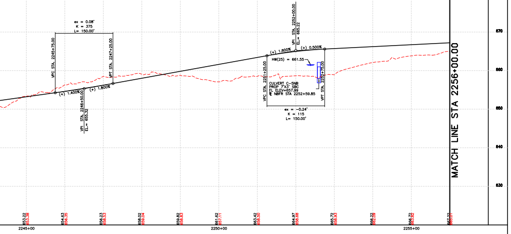

BEGIN BRIDGE
℄ SBFR STA 3230+67.14
VPI STA. 3233+00.00
EL= 649.95
(+) 0.700%
(−) 0.500%
VPC STA. 3232+25.00
VPT STA. 3233+75.00
ex = −0.23'
K = 125
L= 150.00'
HW(100) = 637.37
DRY FORK CREEK
END BRIDGE
℄ SBFR STA 3239+50.43
ex = 0.47'
K = 105
L= 200.00'
℄ JCHRISTAL
VPC STA. 3244+00.00
VPT STA. 3246+00.00
(−) 0.500%
(+) 1.400%
VPI STA. 3245+00.00
EL= 643.95
3225+00
3230+00
3235+00
3240+00
3245+00


ex = 1.44'
K = 217
L= 500.00'
VPC STA. 322+50.00
VPT STA. 327+50.00
(−) 0.500%
(+) 1.800%
VPI STA. 325+00.00
EL= 640.32
BEGIN BRIDGE
℄ SL288 STA 328+69.09
HW(100) = 636.53
DRY FORK CREEK
VPI STA. 341+00.00
EL= 669.12
(+) 1.800%
(−) 0.500%
END BRIDGE
℄ SL288 STA 343+21.09
VPC STA. 338+00.00
ex = −1.72'
K = 261
L= 600.00'
17'-0"
MIN CALCULATED VERTICAL CLEARANCE
℄ JCHRISTAL
VPT STA. 344+00.00
ex = 0.31'
K = 250
L= 250.00'
VPC STA. 344+75.00
VPT STA. 347+25.00
(−) 0.500%
(+) 0.500%
VPI STA. 346+00.00
EL= 666.62
320+00
325+00
330+00
335+00
340+00
345+00


ex = 0.28'
K = 100
L= 150.00'
VPC STA. 2222+25.00
VPT STA. 2223+75.00
(−) 0.500%
(+) 1.000%
VPI STA. 2223+00.00
EL= 640.82
BEGIN BRIDGE
℄ NBFR STA 2226+65.48
L= 150.00'
K = 88
ex = −0.32'
VPC STA. 2228+25.00
VPI STA. 2229+00.00
EL= 646.82
VPT STA. 2229+75.00
(+) 1.000%
(−) 0.700%
HW(100) = 635.32
DRY FORK CREEK
END BRIDGE
℄ NBFR STA 2233+28.88
ex = 0.58'
K = 87
L= 200.00'
VPC STA. 2236+00.00
VPT STA. 2238+00.00
(−) 0.700%
(+) 1.600%
VPI STA. 2237+00.00
EL= 641.22
℄ JCHRISTAL
VPI STA. 2241+00.00
EL= 647.62
(+) 1.600%
(+) 1.400%
VPC STA. 2240+25.00
VPT STA. 2241+75.00
ex = −0.04'
K = 750
L= 150.00'
PROPOSED PGL
⊙ ℄ NBFR
EXIST GROUND
⊙ ℄ NBFR
2220+00
2225+00
2230+00
2235+00
2240+00


ex = 0.62'
K = 80
L= 200.00'
VPC STA. 3250+00.00
VPT STA. 3252+00.00
(+) 1.400%
(+) 3.900%
VPI STA. 3251+00.00
EL.= 652.35
PROPOSED PGL
@ ℄ SBFR
EXIST GROUND
@ ℄ SBFR
VPC STA. 3253+50.00
ex = -1.84'
K = 61
L= 300.00'
VPI STA. 3255+00.00
EL.= 667.95
(+) 3.900%
(-) 1.000%
VPC STA. 3256+50.00
VPT STA. 3256+50.00
ex = 1.13'
K = 100
L= 300.00'
(-) 1.000%
(+) 2.000%
VPI STA. 3258+00.00
EL.= 664.95
VPT STA. 3259+50.00
VPI STA. 3261+00.00
EL.= 670.95
(+) 2.000%
HW(25) = 665.16
VPC STA. 3260+25.00
ex = -0.28'
K = 100
L= 150.00'
CULVERT C-5SB
PROP 7'X3' SBC
FL ELEV=661.81
℄ SBFR STA 3260+57.85
MATCH LINE STA 3261+00.00
670
660
650
640
630
650.95 649.20
652.97 651.07
656.25 656.18
660.15 658.67
663.84 662.15
666.11 667.01
666.74 667.51
666.07 665.73
666.07 663.41
667.07 663.22
668.95 662.71
670.67 663.62
3250+00
3255+00
3260+00


PROPOSED PGL
@ ℄ SL288
EXIST GROUND
@ ℄ SL288
VPI STA. 356+00.00
EL.= 671.62
(+) 0.500%
(-) 0.600%
VPC STA. 354+50.00
VPT STA. 357+50.00
ex = -0.41'
K = 273
L= 300.00'
CULVERT C-5
PROP 7'X3' SBC
FL ELEV=659.90
℄ SL288 STA 356+54.41
MATCH LINE STA 359+00.00
680
670
660
650
640
630
667.62 654.15
668.12 658.38
668.62 661.74
669.12 663.60
669.62 664.19
670.12 662.95
670.62 661.11
671.08 661.21
671.21 661.91
670.98 661.74
670.42 661.19
669.82 663.17
350+00
355+00


ex = 0.08'
K = 375
L= 150.00'
VPC STA. 2245+75.00
VPT STA. 2247+25.00
(+) 1.400%
(+) 1.800%
VPI STA. 2246+50.00
EL.= 655.32
VPI STA. 2252+00.00
EL.= 665.22
(+) 1.800%
(+) 0.500%
HW(25) = 661.55
VPC STA. 2251+25.00
VPT STA. 2252+75.00
CULVERT C-5NB
PROP 7'X3' SBC
FL ELEV=657.99
℄ NBFR STA 2252+59.85
ex = -0.24'
K = 115
L= 150.00'
MATCH LINE STA 2256+00.00
670
660
650
640
630
653.22 653.38
654.63 656.35
656.23 658.53
658.02 659.04
659.82 658.83
661.62 657.11
663.42 658.50
664.97 658.68
665.72 658.93
666.22 662.09
666.72 663.82
667.22 665.01
2245+00
2250+00
2255+00

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED BUR, P.E., DISTRICT ENGINEER

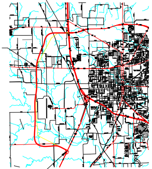
DENTON COUNTY
SL 288

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

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



END PROJECT
STA 528+51.11
CSJ: 2250-02-013

END CSJ: 2250-02-014
BEGIN CSJ: 2250-02-013
STA 381+33.20

BEGIN PROJECT
STA 101+48.93
CSJ: 2250-02-014

LOCATION MAP

MAY 2020
SCALE: 1"=100' H, 1"= 10' V
ROLL 8 OF 15

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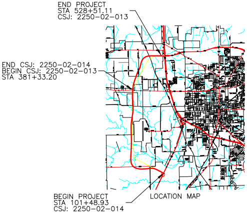
END PROJECT
STA 528+51.11
CSJ: 2250-02-013
END CSJ: 2250-02-014
BEGIN CSJ: 2250-02-013
STA 381+33.20
BEGIN PROJECT
STA 101+48.93
CSJ: 2250-02-014

LOCATION MAP

MAY 2020
SCALE: 1"=100' H, 1"= 10' V
ROLL 9 OF 15

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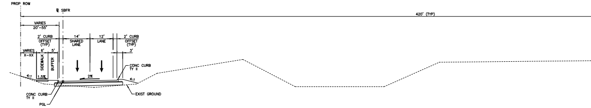
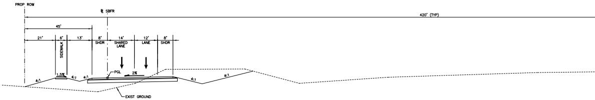
THOMAS COCHILL P.E. NO. 87665

CP&Y


PROP ROW
℄ SBFR
420' (TYP)
VARIES
20'-55'
2' CURB
OFFSET
(TYP)
14'
SHARED
LANE
12'
LANE
2' CURB
OFFSET
(TYP)
VARIES
X-XX
6'
5'
3'
SIDEWALK
BUFFER
CONC CURB
TY II
4:1
1.5%
2%
4:1
CONC CURB
TY II
PGL
EXIST GROUND

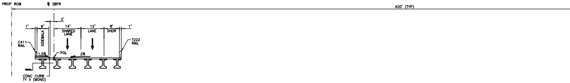
STA 3004+11.32 TO STA 3033+38.76, STA 3044+39.47 TO STA 3080+47.42,
STA 3092+33.89 TO STA 3126+67.02, STA 3153+06.20 TO STA 3163+76.30,
STA 3174+73.85 TO STA 3227+66.89, STA 3250+69.53 TO STA 3278+50.81,
STA 3290+69.06 TO STA 3318+01.71, STA 3328+36.41 TO STA 3337+42.85,
STA 3346+56.55 TO STA 3379+47.97, STA 3400+35.75 TO STA 3420+32.99

PROPOSED TYPICAL SECTION


PROP ROW
℄ SBFR
420' (TYP)
45'
21'
6'
13'
8'
SHDR
14'
SHARED
LANE
12'
LANE
8'
SHDR
SIDEWALK
1.5%
4:1
4:1
4:1
PGL
2%
4:1
4:1
EXIST GROUND

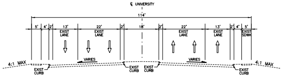
STA 3340+12.85 TO STA 3345+13.33

PROPOSED TYPICAL SECTION

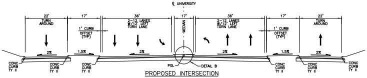

PROP ROW
℄ SBFR
420' (TYP)
2'
1'
6'
14'
SHARED
LANE
12'
LANE
8'
SHDR
1'
C411
RAIL
T222
RAIL
SIDEWALK
1.5%
PGL
2%
CONC CURB
TY II (MONO)

STA 3129+57.02 TO STA 3135+78.13,
STA 3140+73.88 TO STA 3151+48.88,
STA 3230+67.14 TO STA 3239+50.43,
STA 3383+16.32 TO STA 3398+80.75

PROPOSED TYPICAL SECTION

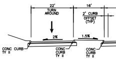

℄ UNIVERSITY
114'
5'
4'
2'
13'
EXIST
LANE
22'
EXIST
LANE
2'
18'
2'
22'
EXIST
LANE
13'
EXIST
LANE
2'
4'
5'
EXIST
SDWK
VARIES
VARIES
4:1 MAX
4:1 MAX
EXIST
CURB
EXIST
CURB
EXIST
CURB
EXIST
CURB

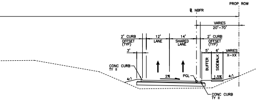
EXISTING TYPICAL SECTION


℄ UNIVERSITY
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%
CONC
CURB
TY II
CONC
CURB
TY II
CONC
CURB
TY II
PGL
DETAIL B
CONC
CURB
TY II
CONC
CURB
TY II
CONC
CURB
TY II

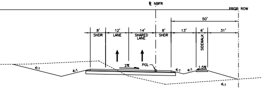
PROPOSED INTERSECTION
TYPICAL SECTION
W UNIVERSITY DR - US 380

DETAIL B

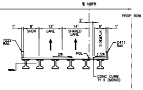

22'
TURN
AROUND
16'
2' CURB
OFFSET
(TYP)
2%
1.5%
CONC CURB
TY II
CONC
CURB
TY II
CONC
CURB
TY II


PROP ROW
℄ NBFR
VARIES 20'–70'
2' CURB OFFSET (TYP)
12' LANE
14' SHARED LANE
2' CURB OFFSET (TYP)
3'
5'
6'
VARIES X–XX
CONC CURB TY II
BUFFER
SIDEWALK
4:1
2%
PGL
1.5%
4:1
CONC CURB TY II

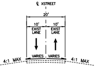
STA 2004+11.53 TO STA 2034+63.48, STA 2045+64.20 TO STA 2077+28.20,
STA 2088+94.15 TO STA 2122+92.29, STA 2146+54.53 TO STA 2158+14.92,
STA 2169+12.46 TO STA 2225+08.15, STA 2244+20.85 TO STA 2272+09.59,
STA 2284+27.82 TO STA 2330+29.00, STA 2338+25.15 TO STA 2372+22.26,
STA 2391+14.52 TO STA 2402+25.69


℄ NBFR
PROP ROW
50'
8' SHDR
12' LANE
14' SHARED LANE
8' SHDR
13'
6'
31'
SIDEWALK
4:1
4:1
2%
PGL
4:1
4:1
1.5%
4:1

STA 2331+64.00 TO STA 2335+55.15

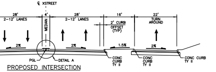

℄ NBFR
PROP ROW
1'
8' SHDR
12' LANE
14' SHARED LANE
2'
6'
1'
SIDEWALK
T222 RAIL
C411 RAIL
2%
PGL
1.5%
CONC CURB TY II (MONO)

STA 2124+47.29 TO STA 2130+76.18,
STA 2134+80.42 TO STA 2143+55.42,
STA 2226+65.48 TO STA 2233+28.88,
STA 2375+42.20 TO STA 2388+24.66


℄ XSTREET
20'
10'
10'
EXIST LANE
EXIST LANE
VARIES
VARIES
4:1 MAX
4:1 MAX

EXISTING TYPICAL SECTION

TOM COLE/FM 1515, N MASCH BRANCH RD


℄ XSTREET
28'
2–12' LANES
4'
MEDIAN
28'
2–12' LANES
16'
2' CURB OFFSET (TYP)
22'
TURN AROUND
2%
2%
1.5%
2%
PGL
DETAIL A
CONC CURB TY II
CONC CURB TY II
CONC CURB TY II

PROPOSED INTERSECTION TYPICAL SECTION

JOHN PAINE RD, TOM COLE RD/FM 1515,
JIM CHRISTAL RD,
N MASCH BRANCH RD

DETAIL A

GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED, SCHEMATICS ARE BASED ON AERIAL SURVEYS AND RECORD PLANS PROVIDED OCTOBER 2016.
2. TRAFFIC VOLUMES BASED ON NCTCOG MODEL AND WILL BE APPROVED BY TXDOT TP&P.
3. ADA RAMPS AND SIDEWALK ARE DESIGNED PER TEXAS ACCESSIBILITY STANDARDS. LOCATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL LOCATIONS TO BE DETERMINED DURING PS&E DEVELOPMENT.
4. ACCESS DENIAL LIMITS ARE DETERMINED PER TXDOT ACCESS MANAGEMENT MANUAL.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
6. DRIVEWAY LOCATIONS ARE PRELIMINARY AND WILL BE FURTHER DEVELOPED DURING PS&E DEVELOPMENT.
7. EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED (UNLESS NOTED OTHERWISE).
8. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL'S AS SHOWN IN THE TYPICAL SECTIONS.
9. CURBS ON FRONTAGE ROADS AND CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
10. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS OTHERWISE NOTED).
11. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS 48121C0355G (2011).
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING PS&E DEVELOPMENT.
13. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DENTON COUNTY APPRAISAL DISTRICT (JULY 2018).

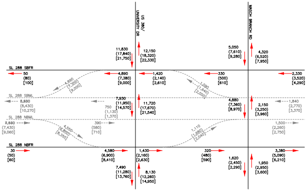
LEGEND:

- 🟩 FRONTAGE ROADS
- 🟦 CROSS STREETS
- 🟧 BRIDGE
- ▬ SIDEWALK
- 🟥 DRIVEWAY
- 🟨 PROPOSED ROADWAY BY ADJACENT PROJECT
- ▨ ASPHALT TO BE REMOVED
- ▨ FLOOD PLAINS
- —||— CONTROL OF ACCESS
- -·-·- EXISTING ROW
- -·-·- PROPOSED ROW ACQUIRED BY ADJACENT PROJECT
- -·-·- PROPOSED ROW
- -·-·- DRAINAGE EASEMENT
- —— CITY OF DENTON
- XXXXX-X CURVE NUMBER
- SL-04 PARCEL NO.
- - - - EXISTING ELECTRIC LINE
- - - - EXISTING GAS LINE
- - - - EXISTING GAS LINE
- - - - EXISTING WASTEWATER LINE
- - - - EXISTING STORM SEWER LINE
- - - - EXISTING TELEPHONE LINE
- - - - EXISTING WATER LINE
- —— FUTURE RAMP CONNECTION

50 25 0 50 100
SCALE FEET

TRAFFIC DIAGRAM

N.T.S


US 380/ UNIVERSITY DR
MASCH BRANCH RD
SL 288 SBFR
SL 288 SBML
SL 288 NBML
SL 288 NBFR
11,830 (17,840) [21,750]
12,150 (18,320) [22,330]
50 (80) [100]
4,890 (7,380) [9,000]
4,890 (7,300) [9,000]
1,420 (2,140) [2,610]
5,050 (7,610) [9,280]
4,320 (6,520) [7,950]
330 (500) [610]
1,090 (1,640) [2,000]
2,330 (3,520) [4,290]
8,880 (8,430) [10,270]
7,930 (11,950) [14,570]
750 (1,130) [1,370]
11,720 (17,670) [21,540]
4,880 (7,360) [8,970]
2,150 (3,250) [3,960]
1,840 (2,770) [3,370]
7,880 (7,430) [9,060]
4,550 (6,850) [8,350]
390 (580) [710]
1,110 (1,680) [2,040]
1,500 (2,260) [2,750]
30 (50) [60]
4,580 (6,900) [8,410]
1,430 (2,160) [2,630]
320 (480) [590]
1,620 (2,450) [2,290]
3,380 (5,090) [6,210]
7,490 (11,280) [13,760]
8,130 (12,260) [14,950]
1,950 (2,950) [3,600]

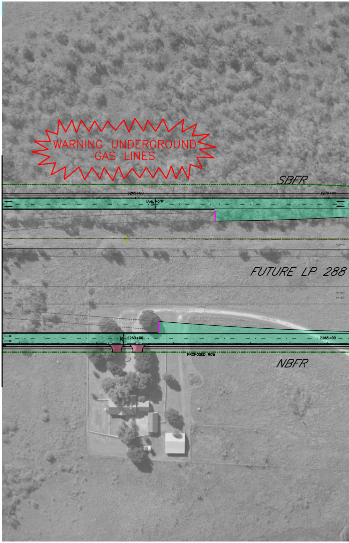
LEGEND:

INTERIM TRAFFIC VOLUME
X,XXX = 2020 ADT
(X,XXX) = (2040) ADT
[X,XXX] = [2050] ADT

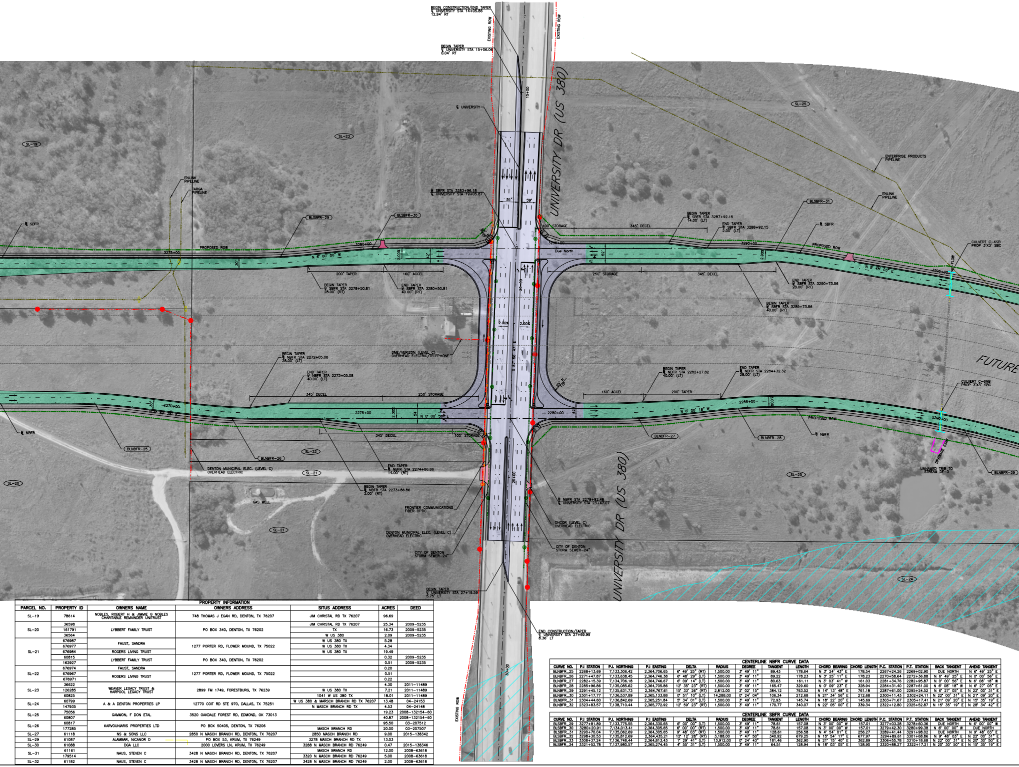
ULTIMATE TRAFFIC VOLUME
X,XXX= 2020 ADT
(X,XXX)= (2040) ADT
[X,XXX]= [2050] ADT

= ADT VOLUMES TO BE PROVIDED UNDER SEPARATE STUDY

MATCH LINE STA 359+00.00
CSJ: 2250-02-014


WARNING UNDERGROUND GAS LINES
SBFR
3265+00
3270+00
Due North
FUTURE LP 288
2260+00
2265+00
PROPOSED ROW
NBFR

TOPOGRAPHIC/AERIAL PHOTOGRAPHY: OCTOBER 2016


BEGIN CONSTRUCTION/END TAPER
℄ UNIVERSITY STA 14+05.86
12.94' RT
BEGIN TAPER
℄ UNIVERSITY STA 15+06.06
0.04' RT
EXISTING ROW
EXISTING ROW
15+00
℄ UNIVERSITY
UNIVERSITY DR (US 380)
SL-19
SL-23
SL-25
ENTERPRISE PRODUCTS PIPELINE
ENLINK PIPELINE
TARGA PIPELINE
ENLINK PIPELINE
℄ SBFR STA 3283+96.18
℄ UNIVERSITY STA 19+05.87
51'
39'
BLSBFR-29
BLSBFR-30
BLSBFR-31
℄ SBFR
PROPOSED ROW
3275+00
3280+00
N 6° 00' 00" W
30'
42'
2.00%
200' TAPER
160' ACCEL
BEGIN TAPER
℄ SBFR STA 3278+50.81
28.00' (RT)
END TAPER
℄ SBFR STA 3280+50.81
40.00' (RT)
100' STORAGE
345' DECEL
BEGIN TAPER
℄ SBFR STA 3287+92.15
14.00' (LT)
END TAPER
℄ SBFR STA 3288+92.15
2.00' (LT)
3285+00
3290+00
Due North
52'
250' STORAGE
345' DECEL
END TAPER
℄ SBFR STA 3290+73.56
28.00' (RT)
BEGIN TAPER
℄ SBFR STA 3289+73.56
40.00' (RT)
N 9° 48' 03" E
3295+00
FLOW
CULVERT C-6SB
PROP 3'X3' SBC
20+00
2.00%
2.00%
S 87° 58' 47" E
DME/VERIZON (LEVEL C)
OVERHEAD ELECTRIC/TELEPHONE
FUTURE
BEGIN TAPER
℄ NBFR STA 2272+05.08
28.00' (LT)
END TAPER
℄ NBFR STA 2273+05.08
40.00' (LT)
345' DECEL
250' STORAGE
2270+00
2275+00
N 6° 49' 25" E
N 0° 00' 56" E
54'
BEGIN TAPER
℄ NBFR STA 2282+27.82
40.00' (LT)
END TAPER
℄ NBFR STA 2284+32.32
28.00' (LT)
160' ACCEL
200' TAPER
95' R TYP
2280+00
2285+00
N 6° 08' 18" W
CULVERT C-6NB
PROP 3'X3' SBC
2290+00
℄ NBFR
BLNBFR-25
BLNBFR-26
BLNBFR-27
BLNBFR-28
BLNBFR-29
PROPOSED ROW
℄ NBFR
345' DECEL
100' STORAGE
SL-22
SL-20
SL-21
DENTON MUNICIPAL ELEC. (LEVEL C)
OVERHEAD ELECTRIC
END TAPER
℄ NBFR STA 2274+86.86
14.00' (RT)
BEGIN TAPER
℄ NBFR STA 2273+86.86
2.00' (RT)
GAS WELL
FRONTIER COMMUNICATIONS
FIBER OPTIC
DENTON MUNICIPAL ELEC. (LEVEL C)
OVERHEAD ELECTRIC
CITY OF DENTON
STORM SEWER-24"
25+00
℄ NBFR STA 2278+82.48
℄ UNIVERSITY STA 23+47.07
ONCOR (LEVEL C)
OVERHEAD ELECTRIC
CITY OF DENTON
STORM SEWER-24"
DRAINAGE ESMT
UNNAMED TRIB TO
STREAM DF-3
SL-25
SL-24
BEGIN TAPER
℄ UNIVERSITY STA 27+19.59
5.75' LT
END CONSTRUCTION/TAPER
℄ UNIVERSITY STA 27+69.99
8.36' LT
30+00
EXISTING ROW

PROPERTY INFORMATION

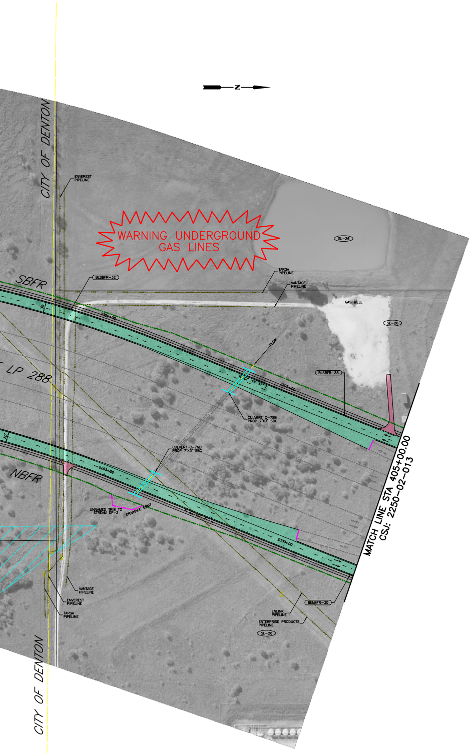
PARCEL NO.	PROPERTY ID	OWNERS NAME	OWNERS ADDRESS	SITUS ADDRESS	ACRES	DEED
SL-19	78614	NOBLES, ROBERT H & JIMMIE G NOBLES CHARITABLE REMAINDER UNITRUST	748 THOMAS J EGAN RD, DENTON, TX 76207	JIM CHRISTAL RD TX 76207	96.69	
SL-20	36598	LYBBERT FAMILY TRUST	PO BOX 340, DENTON, TX 76202	JIM CHRISTAL RD TX 76207	25.34	2009-5235
	161791			TX	16.73	2009-5235
	36564			W US 380	2.09	2009-5235
SL-21	676987	FAUST, SANDRA	1277 PORTER RD, FLOWER MOUND, TX 75022	W US 380 TX	5.28	
	676977			W US 380 TX	4.34	
	676984	ROGERS LIVING TRUST		W US 380 TX	19.49	
	60815	LYBBERT FAMILY TRUST	PO BOX 340, DENTON, TX 76202		0.32	2009-5235
	162927				0.51	2009-5235
SL-22	676974	FAUST, SANDRA	1277 PORTER RD, FLOWER MOUND, TX 75022		0.20	
	676967	ROGERS LIVING TRUST			0.51	
	676971				0.22	
SL-23	36622	WEAVER LEGACY TRUST & HARPOOL LEGACY TRUST	2899 FM 1749, FORESTBURG, TX 76239		4.30	2011-11489
	126285			W US 380 TX	7.21	2011-11489
	60825			1041 W US 380 TX	18.01	2011-11489
SL-24	60799	A & A DENTON PROPERTIES LP	12770 COIT RD STE 970, DALLAS, TX 75251	W US 380 & MARSCH BRANCH RD TX 76207	13.48	04-24153
	147935			N MASCH BRANCH RD TX	4.53	04-24148
SL-25	75056	GAMMON, F DON ETAL	3520 OAKDALE FOREST RD, EDMOND, OK 73013		19.23	2008-132154-60
	60807				40.87	2008-132154-60
SL-26	60817	KARVOUNIARIS PROPERTIES LTD	PO BOX 50405, DENTON, TX 76206		95.50	03-207512
	177285			MASCH BRANCH RD	20.00	03-207507
SL-27	61118	NS & SONS LLC	2850 N MASCH BRANCH RD, DENTON, TX 76207	2850 MASCH BRANCH RD	9.00	2015-138342
SL-29	61087	ALAMBAR, NICANOR D	PO BOX 53, KRUM, TX 76249	3278 MASCH BRANCH RD TX	13.03	
SL-30	61088	DGA LLC	2000 LOVERS LN, KRUM, TX 76249	3288 N MASCH BRANCH RD 76249	0.47	2015-138346
SL-31	61161	NAUS, STEVEN C	3428 N MASCH BRANCH RD, DENTON, TX 76207	MASCH BRANCH RD	12.00	2008-63618
	179514			3320 N MASCH BRANCH RD 76249	5.00	2008-63618
SL-32	61182	NAUS, STEVEN C	3428 N MASCH BRANCH RD, DENTON, TX 76207	3428 N MASCH BRANCH RD 76249	2.00	2008-63618

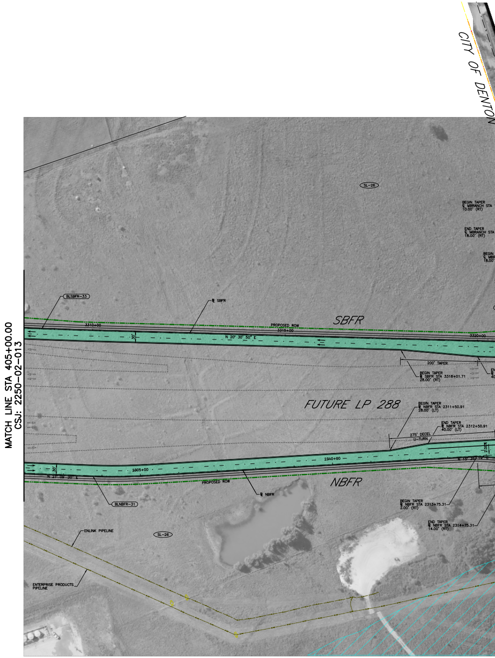
CENTERLINE NBFR CURVE DATA

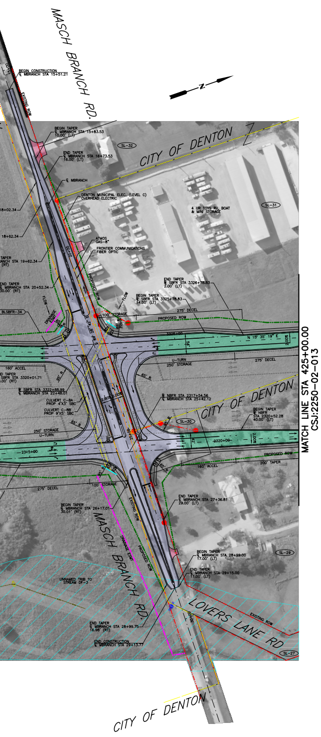
CURVE NO.	P.I STATION	P.I. NORTHING	P.I EASTING	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
BLNBFR_25	2268+13.69	7,133,306.42	2,364,706.65	6° 49' 25" (RT)	1,500.00	3° 49' 11"	89.43	178.64	N 3° 24' 43" E	178.54	2267+24.26	2269+02.90	DUE NORTH	N 6° 49' 25" E
BLNBFR_26	2271+47.87	7,133,638.45	2,364,746.38	6° 48' 29" (LT)	1,500.00	3° 49' 11"	89.22	178.23	N 3° 25' 11" E	178.23	2270+58.64	2272+36.88	N 6° 49' 25" E	N 0° 00' 56" E
BLNBFR_27	2282+15.39	7,134,706.18	2,364,746.67	6° 09' 14" (LT)	1,500.00	3° 49' 11"	80.63	161.11	N 3° 03' 41" W	161.03	2281+34.76	2282+95.87	N 0° 00' 56" E	N 6° 08' 18" W
BLNBFR_28	2285+96.86	7,135,085.62	2,364,705.86	12° 35' 23" (RT)	1,500.00	3° 49' 11"	165.47	329.60	N 0° 09' 23" E	328.94	2284+31.40	2287+61.00	N 6° 08' 18" W	N 6° 27' 05" E
BLNBFR_29	2291+45.12	7,135,631.73	2,364,767.61	15° 33' 26" (RT)	2,812.00	2° 02' 15"	384.12	763.52	N 14° 13' 48" E	761.18	2287+61.00	2295+24.52	N 6° 27' 05" E	N 22° 00' 31" E
BLNBFR_30	2301+17.77	7,136,537.89	2,365,133.88	0° 51' 10" (LT)	14,288.00	0° 24' 04"	106.34	212.68	N 21° 34' 56" E	212.68	2300+11.43	2302+24.11	N 22° 00' 31" E	N 21° 09' 20" E
BLNBFR_31	2304+44.60	7,136,842.69	2,365,251.84	5° 34' 01" (LT)	1,500.00	3° 49' 11"	72.93	145.74	N 18° 22' 20" E	145.69	2303+71.67	2305+17.41	N 21° 09' 20" E	N 15° 35' 19" E
BLNBFR_32	2323+83.57	7,138,710.44	2,365,772.92	12° 59' 23" (RT)	1,500.00	3° 49' 11"	170.77	340.07	N 22° 05' 00" E	339.34	2322+12.80	2325+52.87	N 15° 35' 19" E	N 28° 34' 42" E

CENTERLINE SBFR CURVE DATA

CURVE NO.	P.I STATION	P.I. NORTHING	P.I EASTING	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
BLSBFR_29	3277+81.89	7,133,775.55	2,364,330.65	6° 00' 00" (LT)	1,500.00	3° 49' 11"	78.61	157.08	N 3° 00' 00" W	157.01	3277+03.28	3278+60.36	DUE NORTH	N 6° 00' 00" W
BLSBFR_30	3280+20.91	7,134,013.41	2,364,305.65	6° 00' 00" (RT)	1,500.00	3° 49' 11"	78.61	157.08	N 3° 00' 00" W	157.01	3279+42.30	3280+99.38	N 6° 00' 00" W	DUE NORTH
BLSBFR_31	3290+70.04	7,135,062.69	2,364,305.65	9° 48' 03" (RT)	1,500.00	3° 49' 11"	128.61	256.58	N 4° 54' 01" E	256.27	3289+41.44	3291+98.02	DUE NORTH	N 9° 48' 03" E
BLSBFR_32	3298+30.53	7,135,812.69	2,364,435.21	12° 12' 28" (RT)	3,188.00	1° 47' 50"	340.92	679.25	N 15° 54' 17" E	677.97	3294+89.61	3301+68.86	N 9° 48' 03" E	N 22° 00' 31" E
BLSBFR_33	3308+37.24	7,136,748.44	2,364,813.43	1° 29' 41" (LT)	13,912.00	0° 24' 43"	181.46	362.90	N 21° 15' 40" E	362.89	3306+55.78	3310+18.68	N 22° 00' 31" E	N 20° 30' 50" E
BLSBFR_34	3321+52.78	7,137,980.57	2,365,274.45	4° 55' 31" (LT)	1,500.00	3° 49' 11"	64.51	128.94	N 18° 03' 05" E	128.90	3320+88.27	3322+17.21	N 20° 30' 50" E	N 15° 35' 19" E


N
CITY OF DENTON
ENVEREST PIPELINE
WARNING UNDERGROUND GAS LINES
SL-26
SBFR
BLSBFR-32
TARGA PIPELINE
VANTAGE PIPELINE
GAS WELL
SL-26
30'
3300+00
FLOW
LP 288
N 22° 00' 31" E
3305+00
BLSBFR-33
CULVERT C-7SB
PROP 7'X3' SBC
CULVERT C-7NB
PROP 7'X3' SBC
30'
2295+00
NBFR
UNNAMED TRIB TO STREAM DF-3
DRAINAGE ESMT
N 22° 00' 31" E
2300+00
MATCH LINE STA 405+00.00
CSJ: 2250-02-013
VANTAGE PIPELINE
ENVEREST PIPELINE
TARGA PIPELINE
BLNBFR-30
ENLINK PIPELINE
ENTERPRISE PRODUCTS PIPELINE
SL-26
CITY OF DENTON


CITY OF DENTON
MATCH LINE STA 405+00.00
CSJ: 2250-02-013
SL-26
BEGIN TAPER
℄ MBRANCH STA
10.00' (RT)
END TAPER
℄ MBRANCH STA
18.00' (RT)
BEGIN
℄ MBR
18.00'
BLSBFR-33
℄ SBFR
SBFR
3310+00
PROPOSED ROW
3315+00
30'
N 20° 30' 50" E
3320+00
200' TAPER
BEGIN TAPER
℄ SBFR STA 3318+01.71
28.00' (RT)
FUTURE LP 288
BEGIN TAPER
℄ NBFR STA 2311+50.91
28.00' (LT)
END TAPER
℄ NBFR STA 2312+50.91
40.00' (LT)
275' DECEL
U-TURN
30'
2305+00
2310+00
N 21° 09' 30" E
N 15° 35' 19" E
2.00'
PROPOSED ROW
℄ NBFR
NBFR
BLNBFR-31
BEGIN TAPER
℄ NBFR STA 2313+75.31
2.00' (RT)
END TAPER
℄ NBFR STA 2314+75.31
14.00' (RT)
ENLINK PIPELINE
SL-26
ENTERPRISE PRODUCTS PIPELINE


MASCH BRANCH RD.
BEGIN CONSTRUCTION
℄ MBRANCH STA 15+51.21
EXISTING ROW
15+00
N
BEGIN TAPER
℄ MBRANCH STA 15+83.53
10.00' (LT)
SL-32
END TAPER
℄ MBRANCH STA 16+73.53
16.00' (LT)
CITY OF DENTON
℄ MBRANCH
DENTON MUNICIPAL ELEC. (LEVEL C)
OVERHEAD ELECTRIC
18+02.34
18+62.34
4 UR TOYS RV, BOAT
& MINI STORAGE
SL-31
ATMOS
GAS-8"
FRONTIER COMMUNICATIONS
FIBER OPTIC
TAPER
RANCH STA 19+62.34
(RT)
20+00
PROPOSED ROW
END TAPER
℄ SBFR STA 3326+78.83
2.00' (LT)
END TAPER
℄ MBRANCH STA 20+52.34
30.00' (RT)
BEGIN TAPER
℄ SBFR STA 3325+78.83
14.00' (LT)
FLOW
BLSBFR-34
DRAINAGE ESMT
100' STORAGE
275' DECEL
PROPOSED ROW
3325+00
N 15° 35' 19" E
2.00%
54'
65' R
U-TURN
250' STORAGE
275' DECEL
160' ACCEL
ND TAPER
SBFR STA 3320+01.71
.00' (RT)
95' R
℄ SBFR STA 3322+88.99
℄ MBRANCH STA 22+48.01
CULVERT C-8A
PROP 4'X3' SBC
CULVERT C-8B
PROP 9'X5' SBC
℄ NBFR STA 2317+54.56
℄ MBRANCH STA 25+42.12
CITY OF DENTON
BEGIN TAPER
℄ NBFR
STA 2320+52.28
40.00' (LT)
SL-30
250' STORAGE
U-TURN
25+00
2320+00
42'
2315+00
PROPOSED ROW
200' TAPER
160' ACCEL
275' DECEL
100' STORAGE
END TAPER
℄ MBRANCH STA 27+36.81
29.00' (LT)
BEGIN TAPER
℄ MBRANCH STA 26+17.01
30.01' (RT)
MASCH BRANCH RD.
DRAINAGE ESMT
PROPOSED ROW
EXISTING ROW
SL-29
BEGIN TAPER
℄ MBRANCH STA 28+99.00
17.00' (LT)
UNNAMED TRIB TO
STREAM DF-3
END TAPER
℄ MBRANCH STA 29+15.00
11.00' (LT)
LOVERS LANE RD
EXISTING ROW
30+00
END TAPER
℄ MBRANCH STA 28+99.75
16.98' (RT)
END CONSTRUCTION
℄ MBRANCH STA 29+13.77
SL-27
CITY OF DENTON
MATCH LINE STA 425+00.00
CSJ:2250-02-013

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED BUR, P.E., DISTRICT ENGINEER

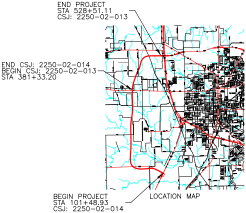
DENTON COUNTY
SL 288

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

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES


END PROJECT
STA 528+51.11
CSJ: 2250-02-013
END CSJ: 2250-02-014
BEGIN CSJ: 2250-02-013
STA 381+33.20
BEGIN PROJECT
STA 101+48.93
CSJ: 2250-02-014
LOCATION MAP

MAY 2020
SCALE: 1"=100' H, 1"= 10' V
ROLL 9 OF 15

APPROVED SCHEMATIC NOT FOR CONSTRUCTION
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL ONLY. THEY ARE NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

CP&Y

	DATE: MAY 2020
THOMAS COCHILL	P.E. NO. 87665

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED BUR, P.E., DISTRICT ENGINEER

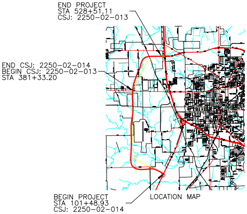
DENTON COUNTY
SL 288

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

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



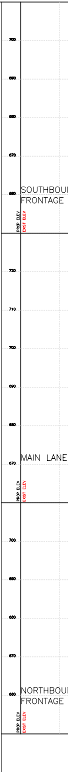
LOCATION MAP

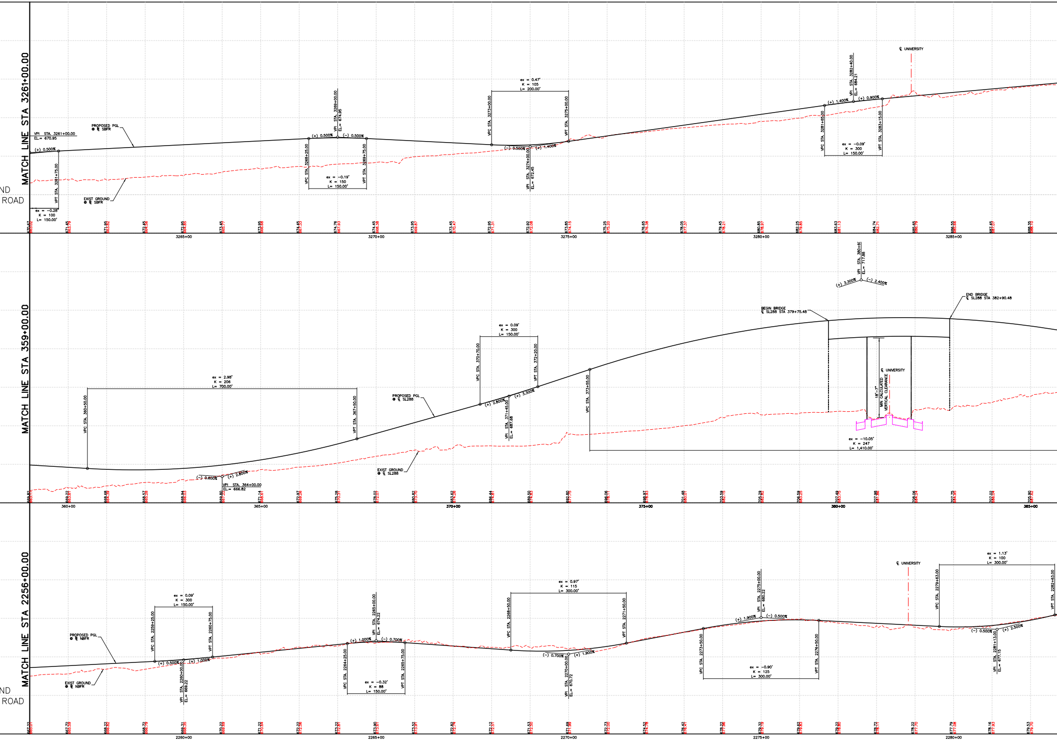
MAY 2020
SCALE: 1"=100' H, 1"= 10' V
ROLL 10 OF 15

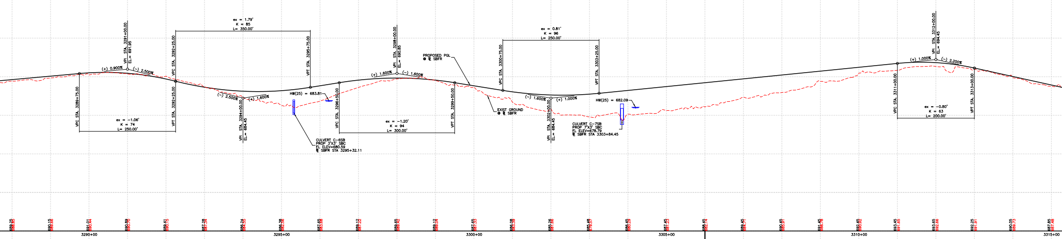
APPROVED SCHEMATIC NOT FOR CONSTRUCTION

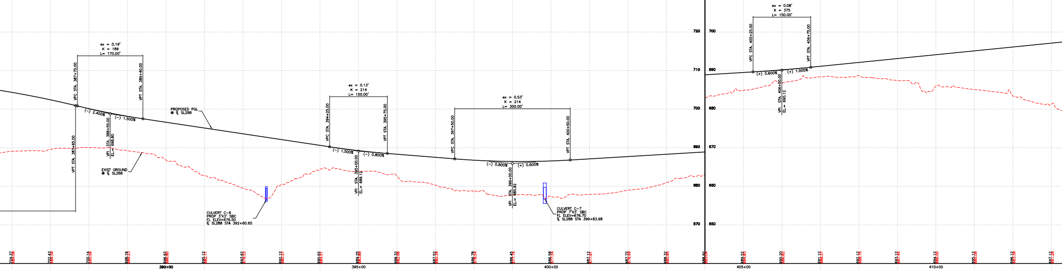
CP&Y

	DATE: MAY 2020
THOMAS COCHILL	P.E. NO. 87665


700
690
680
670
660
SOUTHBOU
FRONTAGE
PROP ELEV
EXIST ELEV
720
710
700
690
680
670
MAIN LANE
PROP ELEV
EXIST ELEV
700
690
680
670
660
NORTHBOU
FRONTAGE
PROP ELEV
EXIST ELEV


MATCH LINE STA 3261+00.00
ND
ROAD
VPI STA. 3261+00.00
EL.= 670.95
(+) 0.500%
VPT STA. 3261+75.00
ex = −0.28'
K = 100
L= 150.00'
PROPOSED PGL
@ ℄ SBFR
EXIST GROUND
@ ℄ SBFR
VPC STA. 3268+25.00
VPI STA. 3269+00.00
EL.= 674.95
(+) 0.500%
(−) 0.500%
VPT STA. 3269+75.00
ex = −0.19'
K = 150
L= 150.00'
ex = 0.47'
K = 105
L= 200.00'
VPC STA. 3273+00.00
VPT STA. 3275+00.00
(−) 0.500%
(+) 1.400%
VPI STA. 3274+00.00
EL.= 672.45
VPI STA. 3282+40.00
EL.= 684.21
(+) 1.400%
(+) 0.900%
VPC STA. 3281+65.00
VPT STA. 3283+15.00
ex = −0.09'
K = 300
L= 150.00'
℄ UNIVERSITY
670.87 663.02
671.45 663.79
671.95 663.82
672.45 664.58
672.95 664.85
673.45 665.77
673.95 666.68
674.45 667.33
674.76 667.93
674.45 668.38
673.95 669.87
673.45 670.47
672.95 671.31
672.92 672.08
673.85 674.15
675.25 675.20
676.65 676.38
678.05 677.37
679.45 678.21
680.85 678.97
682.25 679.85
683.63 681.13
684.74 682.71
685.65 686.79
686.55 685.66
687.45 687.07
688.35 688.10
3265+00
3270+00
3275+00
3280+00
3285+00
MATCH LINE STA 359+00.00
VPC STA. 360+50.00
ex = 2.98'
K = 206
L= 700.00'
VPT STA. 367+50.00
(−) 0.600%
(+) 2.800%
VPI STA. 364+00.00
EL.= 666.82
PROPOSED PGL
@ ℄ SL288
EXIST GROUND
@ ℄ SL288
ex = 0.09'
K = 300
L= 150.00'
VPC STA. 370+70.00
VPT STA. 372+20.00
(+) 2.800%
(+) 3.300%
VPI STA. 371+45.00
EL.= 687.68
VPC STA. 373+55.00
VPI STA. 380+60
EL.= 717.88
(+) 3.300%
(−) 2.400%
BEGIN BRIDGE
℄ SL288 STA 379+75.48
END BRIDGE
℄ SL288 STA 382+90.48
℄ UNIVERSITY
18'−7"
MIN CALCULATED
VERTICAL CLEARANCE
ex = −10.05'
K = 247
L= 1,410.00'
669.82 663.17
669.22 663.61
668.68 664.39
668.57 665.28
668.94 666.03
669.80 667.22
671.14 668.61
672.97 669.26
675.28 670.51
678.02 672.07
680.82 673.70
683.62 674.26
686.44 674.81
689.50 674.83
692.80 677.75
696.06 678.11
698.97 678.93
701.48 680.01
703.59 682.15
705.29 682.82
706.59 683.25
707.49 683.75
707.98 681.86
708.06 684.24
707.75 684.95
707.02 686.04
705.90 687.62
360+00
365+00
370+00
375+00
380+00
385+00
MATCH LINE STA 2256+00.00
ND
ROAD
PROPOSED PGL
@ ℄ NBFR
EXIST GROUND
@ ℄ NBFR
ex = 0.09'
K = 300
L= 150.00'
VPC STA. 2259+25.00
VPT STA. 2260+75.00
(+) 0.500%
(+) 1.000%
VPI STA. 2260+00.00
EL.= 669.22
VPI STA. 2265+00.00
EL.= 674.22
(+) 1.000%
(−) 0.700%
VPC STA. 2264+25.00
VPT STA. 2265+75.00
ex = −0.32'
K = 88
L= 150.00'
ex = 0.97'
K = 115
L= 300.00'
VPC STA. 2268+50.00
VPT STA. 2271+50.00
(−) 0.700%
(+) 1.900%
VPI STA. 2270+00.00
EL.= 670.72
VPI STA. 2275+00.00
EL.= 680.22
(+) 1.900%
(−) 0.500%
VPC STA. 2273+50.00
VPT STA. 2276+50.00
ex = −0.90'
K = 125
L= 300.00'
℄ UNIVERSITY
ex = 1.13'
K = 100
L= 300.00'
VPC STA. 2279+63.00
VPT STA. 2282+63.00
(−) 0.500%
(+) 2.500%
VPI STA. 2281+13.00
EL.= 677.15
667.22 665.01
667.72 665.59
668.22 666.62
668.72 666.79
669.31 668.35
670.22 669.69
671.22 670.64
672.22 672.56
673.22 672.81
673.90 673.61
673.52 673.91
672.82 672.74
672.12 672.51
671.53 672.50
671.69 671.99
672.73 672.00
674.52 674.78
676.42 676.41
678.22 677.96
679.32 679.19
679.62 679.83
679.22 678.80
678.72 678.11
678.22 677.70
677.79 677.08
678.16 677.93
679.53 679.70
2260+00
2265+00
2270+00
2275+00
2280+00


ex = 1.79'
K = 85
L= 350.00'
ex = 0.81'
K = 96
L= 250.00'
VPI STA. 3291+00.00
EL.= 691.95
(+) 0.900%
(-) 2.500%
VPC STA. 3292+25.00
VPT STA. 3295+75.00
VPI STA. 3298+00.00
EL.= 690.85
(+) 1.600%
(-) 1.600%
PROPOSED PGL
@ ℄ SBFR
VPC STA. 3300+75.00
VPT STA. 3303+25.00
VPI STA. 3312+00.00
EL.= 694.45
(+) 1.000%
(-) 2.200%
VPC STA. 3289+75.00
ex = -1.06'
K = 74
L= 250.00'
VPT STA. 3292+25.00
(-) 2.500%
(+) 1.600%
VPI STA. 3294+00.00
EL.= 684.45
HW(25) = 683.81
CULVERT C-6SB
PROP 3'X3' SBC
FL ELEV=680.59
℄ SBFR STA 3295+32.11
VPC STA. 3296+50.00
ex = -1.20'
K = 94
L= 300.00'
VPT STA. 3299+50.00
EXIST GROUND
@ ℄ SBFR
(-) 1.600%
(+) 1.000%
VPI STA. 3302+00.00
EL.= 684.45
HW(25) = 682.09
CULVERT C-7SB
PROP 7'X3' SBC
FL ELEV=678.79
℄ SBFR STA 3303+84.45
VPC STA. 3311+00.00
ex = -0.80'
K = 63
L= 200.00'
VPT STA. 3313+00.00
689.25 688.85
690.15 689.66
691.01 690.44
690.89 690.70
689.41 690.15
687.28 687.34
686.24 684.55
686.38 682.56
687.65 683.68
689.12 687.22
689.65 689.42
689.12 689.04
687.65 687.33
686.08 683.39
685.26 681.66
685.48 679.57
686.45 680.29
687.45 681.23
688.45 682.14
689.45 684.71
690.45 685.91
691.45 688.78
692.45 690.92
693.45 691.65
693.65 692.66
692.25 691.91
690.05 689.73
687.85 687.48
3290+00
3295+00
3300+00
3305+00
3310+00
3315+00


ex = 0.19'
K = 189
L= 170.00'
VPC STA. 387+70.00
VPT STA. 389+40.00
(-) 2.400%
(-) 1.500%
VPI STA. 388+55.00
EL.= 698.80
VPT STA. 387+65.00
PROPOSED PGL
@ ℄ SL288
EXIST GROUND
@ ℄ SL288
CULVERT C-6
PROP 3'X3' SBC
FL ELEV=676.50
℄ SL288 STA 392+60.65
ex = 0.13'
K = 214
L= 150.00'
VPC STA. 394+25.00
VPT STA. 395+75.00
(-) 1.500%
(-) 0.800%
VPI STA. 395+00.00
EL.= 689.12
ex = 0.53'
K = 214
L= 300.00'
VPC STA. 397+50.00
VPT STA. 400+50.00
(-) 0.800%
(+) 0.600%
VPI STA. 399+00.00
EL.= 685.92
CULVERT C-7
PROP 7'X3' SBC
FL ELEV=676.70
℄ SL288 STA 399+83.98
720
710
700
690
680
670
700
690
680
670
660
650
ex = 0.08'
K = 375
L= 150.00'
VPC STA. 405+25.00
VPT STA. 406+75.00
(+) 0.600%
(+) 1.000%
VPI STA. 406+00.00
EL.= 690.12
704.37 689.06
702.43 689.59
700.14 690.06
698.16 689.23
696.62 686.80
695.12 682.71
693.62 679.53
692.12 680.57
690.62 684.51
689.25 683.89
688.32 682.06
687.52 680.34
686.78 678.54
686.45 677.74
686.58 677.34
687.12 677.91
687.72 678.99
688.32 680.95
688.92 683.04
689.52 684.83
690.20 686.82
691.12 688.37
692.12 688.75
693.12 687.45
694.12 686.00
695.12 685.09
696.12 683.39
697.12 681.28
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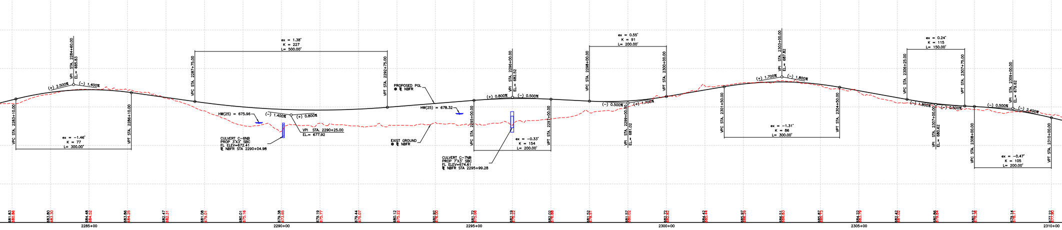
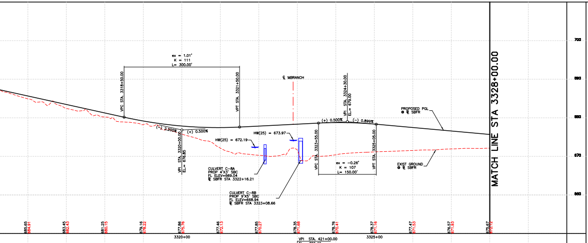
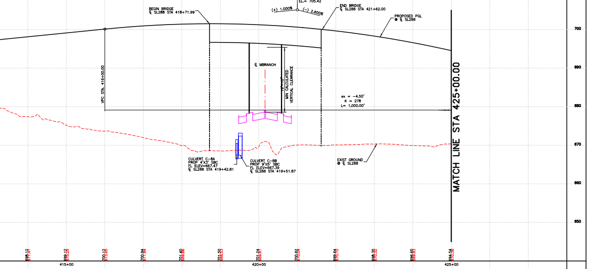
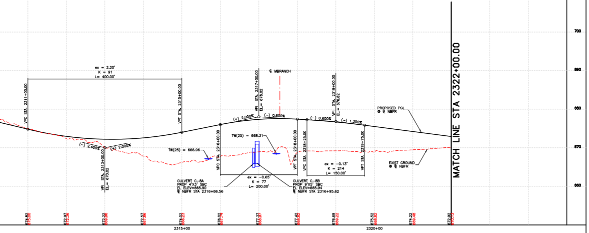
395+00
400+00
405+00
410+00


VPI STA. 2284+60.00
EL.= 685.83
(+) 2.500%
(-) 1.400%
VPC STA. 2283+10.00
ex = -1.46'
K = 77
L= 300.00'
VPT STA. 2286+10.00
ex = 1.38'
K = 227
L= 500.00'
VPC STA. 2287+75.00
VPT STA. 2292+75.00
HW(25) = 675.96
(-) 1.400%
(+) 0.800%
VPI STA. 2290+25.00
EL.= 677.92
CULVERT C-6NB
PROP 3'X3' SBC
FL ELEV=672.41
℄ NBFR STA 2290+04.98
PROPOSED PGL
@ ℄ NBFR
HW(25) = 678.32
EXIST GROUND
@ ℄ NBFR
VPI STA. 2296+00.00
EL.= 682.52
(+) 0.800%
(-) 0.500%
VPC STA. 2295+00.00
ex = -0.33'
K = 154
L= 200.00'
VPT STA. 2297+00.00
CULVERT C-7NB
PROP 7'X3' SBC
FL ELEV=674.61
℄ NBFR STA 2295+99.28
ex = 0.55'
K = 91
L= 200.00'
VPC STA. 2298+00.00
VPT STA. 2300+00.00
(-) 0.500%
(+) 1.700%
VPI STA. 2299+00.00
EL.= 681.02
VPI STA. 2303+00.00
EL.= 687.82
(+) 1.700%
(-) 1.800%
VPC STA. 2301+50.00
ex = -1.31'
K = 86
L= 300.00'
VPT STA. 2304+50.00
ex = 0.24'
K = 115
L= 150.00'
VPC STA. 2306+25.00
VPT STA. 2307+75.00
(-) 1.800%
(-) 0.500%
VPI STA. 2307+00.00
EL.= 680.62
VPI STA. 2309+00.00
EL.= 679.62
(-) 0.500%
(-) 2.400%
VPC STA. 2308+00.00
ex = -0.47'
K = 105
L= 200.00'
VPT STA. 2310+00.00
681.83 680.86
683.80 683.30
684.48 684.52
683.56 684.25
682.47 682.31
681.08 679.01
680.01 675.16
679.38 673.65
679.19 675.77
679.44 675.07
680.12 675.22
680.92 676.00
681.72 675.88
682.19 675.22
682.02 676.88
681.52 678.51
681.57 680.02
682.72 682.82
684.42 685.14
685.97 686.29
686.51 686.63
685.87 685.73
684.22 683.79
682.42 681.02
680.86 679.84
680.12 679.36
679.14 678.71
677.22 677.90
2285+00
2290+00
2295+00
2300+00
2305+00
2310+00


ex = 1.01'
K = 111
L= 300.00'
VPC STA. 3318+50.00
VPT STA. 3321+50.00
℄ MBRANCH
VPI STA. 3324+30.00
EL.= 679.00
PROPOSED PGL
@ ℄ SBFR
(-) 2.200%
(+) 0.500%
(+) 0.500%
(-) 0.899%
HW(25) = 673.97
HW(25) = 672.19
VPI STA. 3320+00.00
EL.= 676.85
VPC STA. 3323+55.00
VPT STA. 3325+05.00
ex = -0.26'
K = 107
L= 150.00'
EXIST GROUND
@ ℄ SBFR
CULVERT C-8A
PROP 4'X3' SBC
FL ELEV=669.04
℄ SBFR STA 3322+16.21
CULVERT C-8B
PROP 9'X5' SBC
FL ELEV=668.94
℄ SBFR STA 3323+08.66
MATCH LINE STA 3328+00.00
700
690
680
670
660
685.65
684.91
683.45
682.43
681.25
680.15
679.16
678.22
677.86
675.76
677.46
672.13
677.85
670.27
678.35
671.68
678.76
670.41
678.37
671.16
677.47
671.53
676.57
671.93
675.67
672.12
3320+00
3325+00


VPI STA. 421+00.00
EL.= 705.42
(+) 1.000%
(-) 2.600%
BEGIN BRIDGE
℄ SL288 STA 418+71.99
END BRIDGE
℄ SL288 STA 421+62.00
PROPOSED PGL
@ ℄ SL288
VPC STA. 416+00.00
℄ MBRANCH
MIN CALCULATED
VERTICAL CLEARANCE
ex = -4.50'
K = 278
L= 1,000.00'
CULVERT C-8A
PROP 4'X3' SBC
FL ELEV=667.47
℄ SL288 STA 419+42.81
CULVERT C-8B
PROP 9'X5' SBC
FL ELEV=667.39
℄ SL288 STA 419+51.87
EXIST GROUND
@ ℄ SL288
MATCH LINE STA 425+00.00
700
690
680
670
660
650
698.12
677.41
699.12
675.25
700.12
673.65
700.94
671.99
701.40
669.86
701.50
668.53
701.24
669.61
700.62
670.04
699.64
670.10
698.30
670.32
696.60
669.93
694.54
670.38
415+00
420+00
425+00


ex = 2.20'
K = 91
L= 400.00'
VPC STA. 2311+00.00
VPT STA. 2315+00.00
VPI STA. 2317+00.00
EL.= 678.02
℄ MBRANCH
VPI STA. 2319+00.00
EL.= 676.82
PROPOSED PGL
@ ℄ NBFR
(+) 2.000%
(-) 0.600%
(-) 0.600%
(-) 1.300%
(-) 2.400%
(+) 2.000%
TW(25) = 668.31
TW(25) = 666.96
VPC STA. 2316+00.00
VPT STA. 2318+00.00
VPC STA. 2318+25.00
VPT STA. 2319+75.00
ex = -0.13'
K = 214
L= 150.00'
EXIST GROUND
@ ℄ NBFR
VPI STA. 2313+00.00
EL.= 670.02
ex = -0.65'
K = 77
L= 200.00'
CULVERT C-8A
PROP 4'X3' SBC
FL ELEV=665.90
℄ NBFR STA 2316+86.56
CULVERT C-8B
PROP 9'X5' SBC
FL ELEV=665.94
℄ NBFR STA 2316+95.62
MATCH LINE STA 2322+00.00
700
690
680
670
660
674.82
675.00
672.97
672.36
672.22
669.96
672.57
667.56
674.02
666.23
676.02
667.74
677.37
668.97
677.42
668.82
676.69
669.22
675.52
668.82
674.22
669.48
672.92
670.13
2315+00
2320+00

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED BUR, P.E., DISTRICT ENGINEER

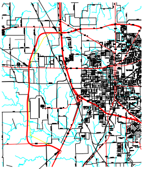
DENTON COUNTY
SL 288

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

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



END PROJECT
STA 528+51.11
CSJ: 2250–02–013

END CSJ: 2250–02–014
BEGIN CSJ: 2250–02–013
STA 381+33.20

BEGIN PROJECT
STA 101+48.93
CSJ: 2250–02–014

LOCATION MAP

MAY 2020
SCALE: 1"=100' H, 1"= 10' V
ROLL 10 OF 15

APPROVED SCHEMATIC NOT FOR CONSTRUCTION

CP&Y

	DATE: MAY 2020
THOMAS COCHILL	P.E. NO. 87665