c:\bms\bridgefarmer-pw\peterson.dayan@bridgefarmer.com\dms21941\038501-SCH-PP-05.dgn

5/30/2023 8:44:12 PM

Texas Department of Transportation

DALLAS DISTRICT
CEASON CLEMENS, PE, DISTRICT ENGINEER

60% DESIGN SCHEMATIC

US 287 FRONTAGE ROADS
ELLIS COUNTY

PROJECT LIMITS:

CSJ:	CSJ LIMITS:
0172-13-008	FROM: US67 TO MIDLOTHIAN PARKWAY
0172-05-127	FROM: MIDLOTHIAN PARKWAY TO BUS287

ROADWAY TYPE	DESIGN SPEED
MAINLANES	65 MPH
RAMPS	50 MPH
FRONTAGE ROADS	45 MPH
CROSS STREETS (MINIMUM)	30 MPH

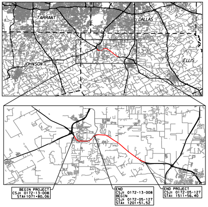
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL (OTHER)
PROJECT LENGTH = 8.3 MILES

NOTES:

1. TYPICAL SECTIONS ARE NOT TO SCALE DIMENSIONS ARE TO FACE OF CURB.
2. CONTROL OF ACCESS TO BE DETERMINED AND FINALIZED THROUGH PERMIT PROCESS.
3. PROPOSED NOISE WALLS DETERMINED BY THE FEASIBILITY TO BE VALIDATED.
4. WHERE POSSIBLE, NEW AND REVISED EXIT AND ENTRANCE RAMPS ARE DESIGNED TO MEET THE DESIRABLE SPACING BETWEEN RAMPS AND DRIVEWAYS, SIDE STREETS OR CROSS STREETS.WHEN THE DESIRABLE SPACING CAN NOT BE ACHIEVED,CHANNELIZATION METHODS WILL BE IMPLIMENTED IN FINAL DESIGN.
5. WATER SURFACE ELEVATIONS SHOWN ARE 100 YEAR ELEVATIONS FROM FEMA MAPS AND FEASIBILITY STUDY.
6. SURVEY AND SUE PROVIDED BY THE FEASIBILITY STUDY (10/22/2020)
7. HORIZONTAL CURVE DATA IS SHOWN ON THE HORIZONTAL CURVE DATA SHEET. HORIZONTAL BASE LINE ALIGNMENTS BY OTHERS ARE SHOWN FOR REFERENCE. CURVE DATA IS NOT INCLUDED
8. OWNERSHIP INFORMATION SHOWN ON THE SCHEMATIC WERE OBTAINED FROM TXDOT BOUNDARY SURVEY (10/31/2022).
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OF NOMINAL FACE OF CURB, RAIL BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
10. ALL RADII ARE 60' UINLESS OTHERWISE NOTED.

NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

PRELIMINARY, SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW.



TARRANT
DALLAS
JOHNSON
ELLIS
BEGIN PROJECT
CSJ: 0172-13-008
STA:1071+80.06
END
CSJ: 0172-13-008
BEGIN
CSJ: 0172-05-127
STA: 1201+51.52
END PROJECT
CSJ: 0172-05-127
STA: 1511+56.40

LOCATION MAP
N.T.S

BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO. 264

SCALE: 1" = 100' HORIZONTAL
SCALE: 1" = 10' VERTICAL

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

NAME	P.E. NO.	DATE
JOHN NGUYEN	86489	03/20/23

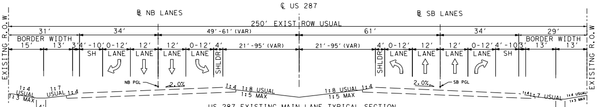
EQUATIONS: NONE
RR CROSSINGS: UPRR

MARCH 17, 2023
ROLL 5 OF 23

© 2023 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

PLAN LEGEND:

🟨	PROPOSED MAIN LANES
🟩	PROPOSED FRONTAGE RD/ CROSS ST
🟧	PROPOSED BRIDGE
🟪	PROPOSED SHARED-USE-PATH
🟥	PROPOSED SIDEWALK
🟦	PROPOSED RAMP
🟦	FEMA FLOODPLAIN
⬛	EXISITNG PAVEMENT
▨	BUILDING DISPLACEMENT
▨	PAVEMENT REMOVAL
──	PROPOSED SSTR
▬	ATTENUATOR
– – – –	PAVEMENT SAWCUT
─┼─┼─	CONTROL OF ACCESS
— · — · —	EXISTING RIGHT-OF-WAY
— · — · —	PROPOSED RIGHT-OF-WAY
— — —	EXISTING PROPERTY LINE
▬	PROPOSED RETAINING WALL
▭	PROPOSED DRAINAGE CULVERT
▭	EXISTING DRAINAGE CULVERT
XXXXXX	PARCEL ID
⟶	FLOW DIRECTION
···▶	DITCH FLOW LINE

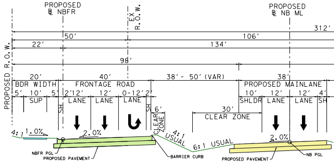


℄ US 287
℄ NB LANES
℄ SB LANES
250' EXIST ROW USUAL
EXISTING R.O.W.
31'
34'
49'-61' (VAR)
61'
34'
29'
BORDER WIDTH
15'
13'
3'
4'-10'
0-12'
12'
12'
0-12'
4'
21'-95' (VAR)
21'-95' (VAR)
SH
LANE
SHLDR
NB PGL
SB PGL
2.0%
1:4
1:7
USUAL
1:3 MAX
4'
MIN.
1:8 USUAL
1:5 MAX
1:4 USUAL
1:3 MAX

US 287 EXISTING MAIN LANE TYPICAL SECTION

STA 1173+00.00 TO STA 1218+00.00
STA 1285+00.00 TO STA 1317+00.00
STA 1457+00.00 TO STA 1510+00.00

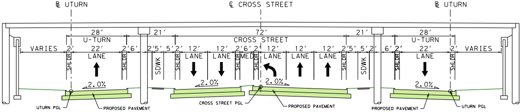
STA 1173+00.00 TO STA 1218+00.00
STA 1285+00.00 TO STA 1317+00.00
STA 1457+00.00 TO STA 1510+00.00



PROPOSED ℄ NBFR
EX R.O.W.
PROPOSED ℄ NB ML
PROPOSED R.O.W.
312'
50'
106'
22'
134'
98'
20'
40'
38' - 50' (VAR)
38'
BDR WIDTH
FRONTAGE ROAD
PROPOSED MAINLANE
5'
10'
5'
2'
12'
12'
0-12'
2'
SUP
SH
LANE
CLEAR ZONE
6'
30'
10'
12'
12'
4'
SHLDR
4:1
1.0%
2.0%
4:1 USUAL
6:1 USUAL
NBFR PGL
PROPOSED PAVEMENT
BARRIER CURB
NB PGL

US 287 SB
STA 1335+00.00 TO STA 1450+00.00

US 287 PR

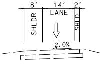


℄ UTURN
℄ CROSS STREET
℄ UTURN
28'
21'
72'
21'
28'
U-TURN
CROSS STREET
U-TURN
VARIES
2'
22'
2'
6'
2'
5'
5'
2'
12'
12'
2'
6'
2'
12'
12'
12'
2'
5'
5'
2'
6'
2'
22'
2'
VARIES
LANE
SHLDR
SDWK
MED
2.0%
UTURN PGL
PROPOSED PAVEMENT
CROSS STREET PGL

CROSS STREET TYPICAL SECTION
PRESIDENTIAL PARKWAY
BUS 287

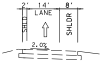
NOTE: CROSS STREETS ARE BUILT FOR FOUR-LANE ULTIMATE AS SHOWN, BUT STRIPPED FOR TWO-LANE WITH TURN LANES

PARCEL ID	OWNER	PROPERTY IMPACT	AREA (ACRES)
193	VICTRON STORES LP	N / A	N / A
195	VICTRON STORES LP	N / A	N / A
197	2013 PAVILION PROPERTIES	N / A	N / A
199	SW 287 LLC	N / A	N / A
201	MIDLOTHIAN MOB LLC	N / A	N / A
203	CORUNDUM LP	N / A	N / A
205	CLARK BRIAN G & SHELLY K	N / A	N / A
207	M W B REAL PROPERTIES LLC	N / A	N / A
209	WALNUT GROVE RETAIL1 LLC	N / A	N / A
211	DEKMAN PROPERTIES LLC	N / A	N / A
213	MIDLOTHIAN CITY OF	N / A	N / A
214	STONEGATE CHURCH	N / A	N / A
215	CITY OF MIDLOTHIAN	N / A	N / A
216	AZAM PROPERTIES INC	N / A	N / A
217	PICKARD JERALD	N / A	N / A
218	SARA JANE PROPERTIES LP	N / A	N / A
220	SARA JANE PROPERTIES LP	N / A	N / A
222	BAYLOR HEALTH CARE SYSTEM	N / A	N / A
224	ENNIS BUSINESS FORMS INC	ROW ACQUISITION	0.07
226	MIDLOTHIAN CITY OF	N / A	N / A
228	D&C PARTNERSHIP	ROW ACQUISITION	0.16
230	PARKER PROCUREMENT LLC	N / A	N / A
232	KNOX STREET PARTNERS NO 28 LTD	ROW ACQUISITION	6.36



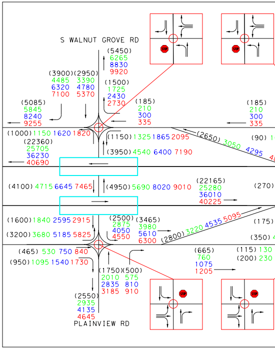
8'
14'
2'
SHLDR
LANE
SHLD
2.0%

STA 11159+00 TO STA 11195+00

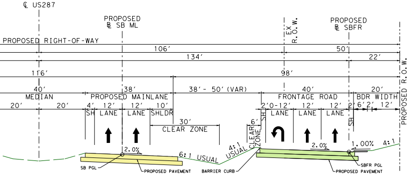


2'
14'
8'
SHLD
LANE
SHLDR
2.0%

STA 11159+00 TO STA 11195+00

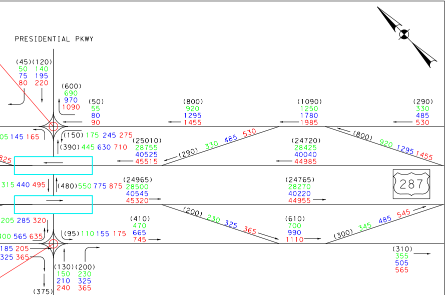


S WALNUT GROVE RD
(5450)
6265
8830
9920
(3900)(2950)
4485 3390
6320 4780
7100 5370
(1500)
1725
2430
2730
(5085)
5845
8240
9255
(185)
210
300
335
(185)
210
300
335
(1000) 1150 1620 1820
(22360)
25705
36230
40690
(1150) 1325 1865 2095
(2650) 3050 4295
(90)
(3950) 4540 6400 7190
(4100) 4715 6645 7465
(4950) 5690 8020 9010
(22165)
25280
36010
40225
(270)
(1600) 1840 2595 2915
(3200) 3680 5185 5825
(2500) (3465)
2875 3980
4050 5610
4550 6300
(2800) 3220 4535 5095
(175)
(350)
(465) 530 750 840
(950) 1095 1540 1730
(665)
760
1075
1205
(115) 130
(200) 230
(1750)(500)
2010 575
2835 810
3185 910
(2550)
2935
4135
4645
PLAINVIEW RD


℄ US287
PROPOSED
℄ SB ML
EX R.O.W.
PROPOSED
℄ SBFR
PROPOSED RIGHT-OF-WAY
106′
50′
134′
22′
116′
98′
40′
MEDIAN
38′
PROPOSED MAINLANE
38′ - 50′ (VAR)
40′
FRONTAGE ROAD
20′
BDR WIDTH
PROPOSED R.O.W.
20′
20′
4′
12′
12′
10′
SH
LANE
LANE
SHLDR
30′
CLEAR ZONE
2′0-12′
12′
12′
2′
6′
2′
12′
SH
LANE
LANE
LANE
SH
6′
CLEAR ZONE
2.0%
6:1 USUAL
4:1 USUAL
2.0%
1.00%
4:1
SB PGL
PROPOSED PAVEMENT
BARRIER CURB
SBFR PGL
PROPOSED PAVEMENT

OPOSED TYPICAL SECTION (URBAN)

US 287 NB
STA 1335+00.00 TO STA 1450+00.00


PRESIDENTIAL PKWY
(45) (120)
50 140
75 195
80 220
(600)
690
970
1090
(50)
55
80
90
(800)
920
1295
1455
(1090)
1250
1780
1985
(290)
330
485
530
05 145 165
(150) 175 245 275
(390) 445 630 710
(25010)
28755
40525
45515
(290) 330 485 530
(24720)
28425
40040
44985
(800) 920 1295 1455
825
315 440 495
(480) 550 775 875
(24965)
28500
40545
45320
(24765)
28270
40220
44955
287
205 285 320
00 565 635
(95) 110 155 175
(410)
470
665
745
(200) 230 325 365
(610)
700
990
1110
(300) 345 485 545
185 205
325 365
(130) (200)
150 230
210 325
240 365
(375)
435
610
685
(310)
355
505
565
PRESIDENTIAL PKWY

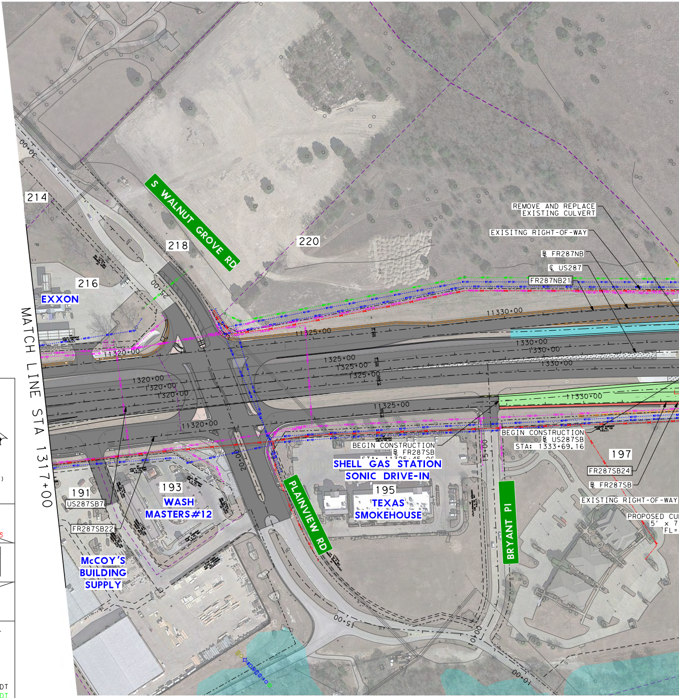
at specified points along US-287 from US 67
to BUS 287R North in Ellis County.

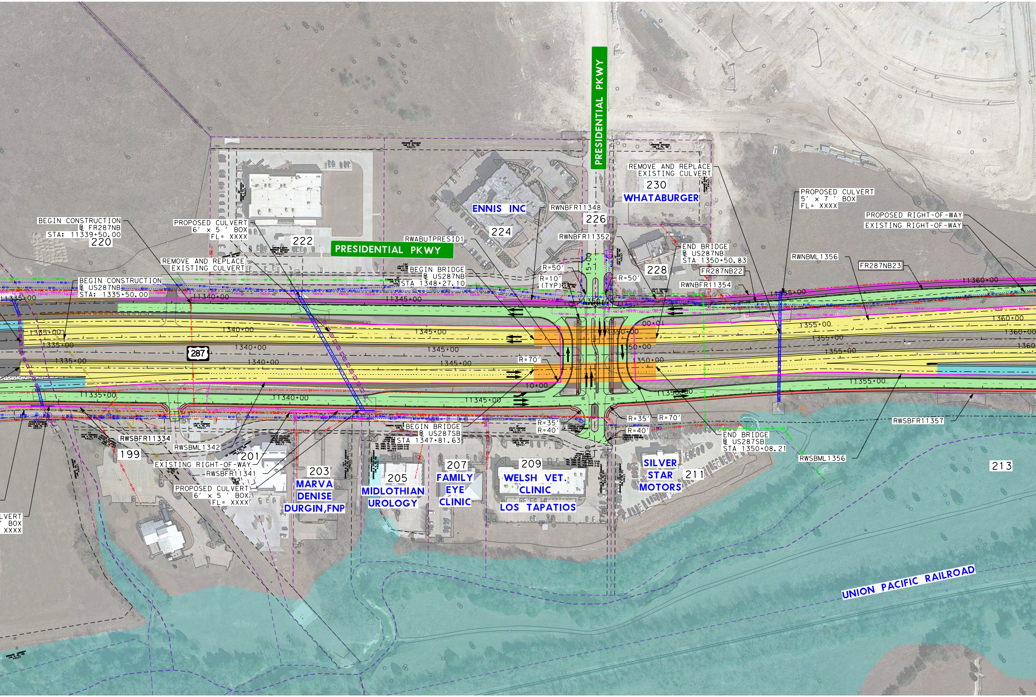
Traffic Projections based on 24-HR counts from
GRAM Traffic NTX Inc. performed on 10/25/2022.

PROJECTED TRAFFIC VOLUMES PENDING REVIEW
AND APPROVAL BY TP&P

LEGEND

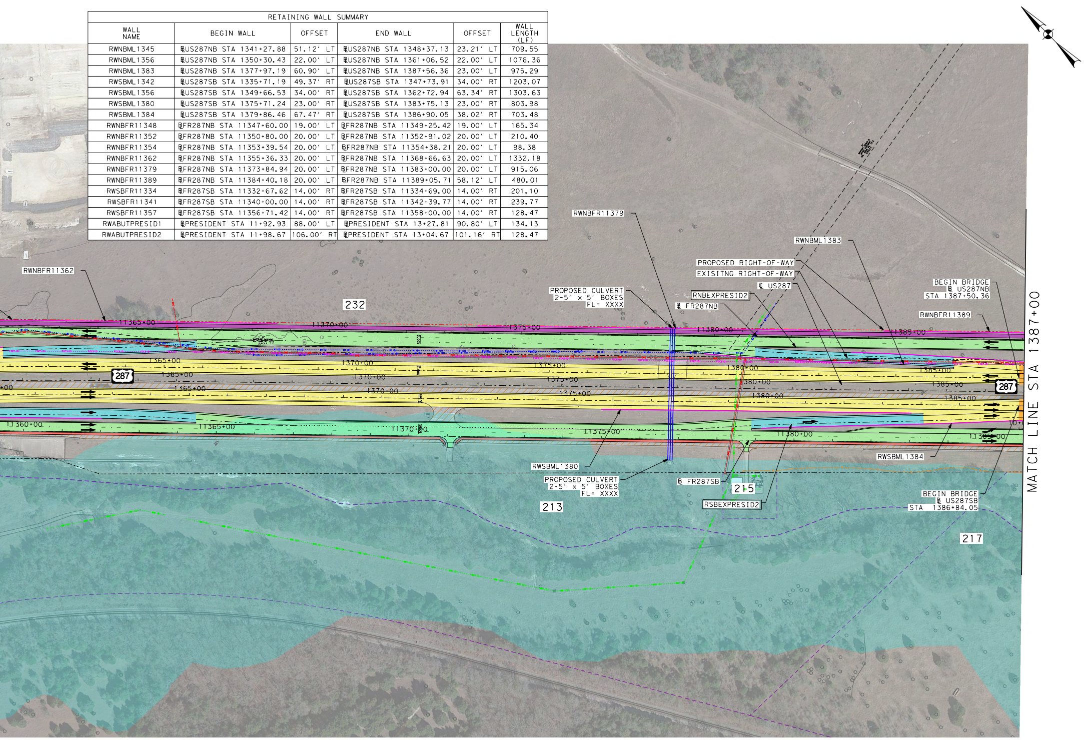
(XXXX) - 2022 ADT
XXXX - 2028 ADT
XXXX - 2048 ADT
XXXX - 2058 ADT


MATCH LINE STA 1317+00
S WALNUT GROVE RD
214
218
220
216
EXXON
REMOVE AND REPLACE
EXISTING CULVERT
EXISITNG RIGHT-OF-WAY
℄ FR287NB
℄ US287
FR287NB21
11330+00
11325+00
11320+00
1330+00
1325+00
1320+00
11325+00
11320+00
BEGIN CONSTRUCTION
℄ FR287SB
BEGIN CONSTRUCTION
℄ US287SB
STA: 1333+69.16
197
FR287SB24
℄ FR287SB
EXISTING RIGHT-OF-WAY
PROPOSED CU
5′ x 7
FL=
SHELL GAS STATION
SONIC DRIVE-IN
195
TEXAS SMOKEHOUSE
191
US287SB7
193
WASH MASTERS #12
FR287SB22
McCOY'S BUILDING SUPPLY
PLAINVIEW RD
BRYANT PI
30+00
25+00
20+00
15+00
10+00


PRESIDENTIAL PKWY
REMOVE AND REPLACE EXISTING CULVERT
230
WHATABURGER
PROPOSED CULVERT 5′ × 7 ′ BOX FL= XXXX
PROPOSED RIGHT-OF-WAY
EXISTING RIGHT-OF-WAY
ENNIS INC
RWNBFR11348
226
224
BEGIN CONSTRUCTION ℄ FR287NB STA: 11339+50.00
220
PROPOSED CULVERT 6′ × 5 ′ BOX FL= XXXX
222
RWABUTPRESID1
PRESIDENTIAL PKWY
RWNBFR11352
END BRIDGE ℄ US287NB STA 1350+50.83
RWNBML1356
FR287NB23
FR287NB22
REMOVE AND REPLACE EXISTING CULVERT
BEGIN BRIDGE ℄ US287NB STA 1348+27.10
R=50′
R=10′ (TYP)
228
R=50′
RWNBFR11354
BEGIN CONSTRUCTION ℄ US287NB STA: 1335+50.00
11335+00
11340+00
11345+00
15+00
1350+00
11355+00
11360+00
1335+00
1340+00
1345+00
1355+00
1360+00
287
R=70′
10+00
11350+00
RWSBFR11357
R=35′
R=70′
R=35′
R=40′
R=40′
BEGIN BRIDGE ℄ US287SB STA 1347+81.63
END BRIDGE ℄ US287SB STA 1350+08.21
RWSBFR11334
RWSBML1342
199
201
EXISTING RIGHT-OF-WAY
RWSBFR11341
PROPOSED CULVERT 6′ × 5 ′ BOX FL= XXXX
203
MARVA DENISE DURGIN,FNP
205
MIDLOTHIAN UROLOGY
207
FAMILY EYE CLINIC
209
WELSH VET. CLINIC
LOS TAPATIOS
SILVER STAR MOTORS
211
RWSBML1356
213
LVERT
′ BOX
XXXX
UNION PACIFIC RAILROAD

RETAINING WALL SUMMARY

WALL NAME	BEGIN WALL	OFFSET	END WALL	OFFSET	WALL LENGTH (LF)
RWNBML1345	℄US287NB STA 1341+27.88	51.12' LT	℄US287NB STA 1348+37.13	23.21' LT	709.55
RWNBML1356	℄US287NB STA 1350+30.43	22.00' LT	℄US287NB STA 1361+06.52	22.00' LT	1076.36
RWNBML1383	℄US287NB STA 1377+97.19	60.90' LT	℄US287NB STA 1387+56.36	23.00' LT	975.29
RWSBML1342	℄US287SB STA 1335+71.19	49.37' RT	℄US287SB STA 1347+73.91	34.00' RT	1203.07
RWSBML1356	℄US287SB STA 1349+66.53	34.00' RT	℄US287SB STA 1362+72.94	63.34' RT	1303.63
RWSBML1380	℄US287SB STA 1375+71.24	23.00' RT	℄US287SB STA 1383+75.13	23.00' RT	803.98
RWSBML1384	℄US287SB STA 1379+86.46	67.47' RT	℄US287SB STA 1386+90.05	38.02' RT	703.48
RWNBFR11348	℄FR287NB STA 11347+60.00	19.00' LT	℄FR287NB STA 11349+25.42	19.00' LT	165.34
RWNBFR11352	℄FR287NB STA 11350+80.00	20.00' LT	℄FR287NB STA 11352+91.02	20.00' LT	210.40
RWNBFR11354	℄FR287NB STA 11353+39.54	20.00' LT	℄FR287NB STA 11354+38.21	20.00' LT	98.38
RWNBFR11362	℄FR287NB STA 11355+36.33	20.00' LT	℄FR287NB STA 11368+66.63	20.00' LT	1332.18
RWNBFR11379	℄FR287NB STA 11373+84.94	20.00' LT	℄FR287NB STA 11383+00.00	20.00' LT	915.06
RWNBFR11389	℄FR287NB STA 11384+40.18	20.00' LT	℄FR287NB STA 11389+05.71	58.12' LT	480.01
RWSBFR11334	℄FR287SB STA 11332+67.62	14.00' RT	℄FR287SB STA 11334+69.00	14.00' RT	201.10
RWSBFR11341	℄FR287SB STA 11340+00.00	14.00' RT	℄FR287SB STA 11342+39.77	14.00' RT	239.77
RWSBFR11357	℄FR287SB STA 11356+71.42	14.00' RT	℄FR287SB STA 11358+00.00	14.00' RT	128.47
RWABUTPRESID1	℄PRESIDENT STA 11+92.93	88.00' LT	℄PRESIDENT STA 13+27.81	90.80' LT	134.13
RWABUTPRESID2	℄PRESIDENT STA 11+98.67	106.00' RT	℄PRESIDENT STA 13+04.67	101.16' RT	128.47


RWNBFR11362
232
PROPOSED CULVERT 2-5' x 5' BOXES FL= XXXX
RWNBFR11379
RWNBML1383
PROPOSED RIGHT-OF-WAY
EXISITNG RIGHT-OF-WAY
℄ US287
RNBEXPRESID2
℄ FR287NB
BEGIN BRIDGE ℄ US287NB STA 1387+50.36
RWNBFR11389
11365+00
11370+00
11375+00
11380+00
1385+00
1365+00
1370+00
1375+00
1380+00
287
287
11360+00
RWSBML1380
PROPOSED CULVERT 2-5' x 5' BOXES FL= XXXX
℄ FR287SB
215
RSBEXPRESID2
213
RWSBML1384
BEGIN BRIDGE ℄ US287SB STA 1386+84.05
217
MATCH LINE STA 1387+00

Texas Department of Transportation

DALLAS DISTRICT
CEASON CLEMENS, PE, DISTRICT ENGINEER

60% DESIGN SCHEMATIC

US 287 FRONTAGE ROADS
ELLIS COUNTY

PROJECT LIMITS:

CSJ:	CSJ LIMITS:
0172-13-008	FROM: US67 TO MIDLOTHIAN PARKWAY
0172-05-127	FROM: MIDLOTHIAN PARKWAY TO BUS287

ROADWAY TYPE	DESIGN SPEED
MAINLANES	65 MPH
RAMPS	50 MPH
FRONTAGE ROADS	45 MPH
CROSS STREETS (MINIMUM)	30 MPH

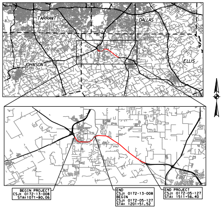
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL (OTHER)
PROJECT LENGTH = 8.3 MILES

NOTES:

1. TYPICAL SECTIONS ARE NOT TO SCALE DIMENSIONS ARE TO FACE OF CURB.
2. CONTROL OF ACCESS TO BE DETERMINED AND FINALIZED THROUGH PERMIT PROCESS.
3. PROPOSED NOISE WALLS DETERMINED BY THE FEASIBILITY TO BE VALIDATED.
4. WHERE POSSIBLE, NEW AND REVISED EXIT AND ENTRANCE RAMPS ARE DESIGNED TO MEET THE DESIRABLE SPACING BETWEEN RAMPS AND DRIVEWAYS, SIDE STREETS OR CROSS STREETS.WHEN THE DESIRABLE SPACING CAN NOT BE ACHIEVED,CHANNELIZATION METHODS WILL BE IMPLIMENTED IN FINAL DESIGN.
5. WATER SURFACE ELEVATIONS SHOWN ARE 100 YEAR ELEVATIONS FROM FEMA MAPS AND FEASIBILITY STUDY.
6. SURVEY AND SUE PROVIDED BY THE FEASIBILITY STUDY (10/22/2020)
7. HORIZONTAL CURVE DATA IS SHOWN ON THE HORIZONTAL CURVE DATA SHEET. HORIZONTAL BASE LINE ALIGNMENTS BY OTHERS ARE SHOWN FOR REFERENCE. CURVE DATA IS NOT INCLUDED
8. OWNERSHIP INFORMATION SHOWN ON THE SCHEMATIC WERE OBTAINED FROM TXDOT BOUNDARY SURVEY (10/31/2022).
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OF NOMINAL FACE OF CURB, RAIL BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
10. ALL RADII ARE 60' UINLESS OTHERWISE NOTED.

NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

PRELIMINARY, SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW.


TARRANT
DALLAS
JOHNSON
ELLIS
BEGIN PROJECT CSJ: 0172-13-008 STA:1071+80.06
END CSJ: 0172-13-008 BEGIN CSJ: 0172-05-127 STA: 1201+51.52
END PROJECT CSJ: 0172-05-127 STA: 1511+56.40

LOCATION MAP
N.T.S

BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO. 264

50 0 50 100
SCALE: 1" = 100' HORIZONTAL

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

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

NAME	P.E. NO.	DATE
JOHN NGUYEN	86489	03/20/23

EQUATIONS: NONE
RR CROSSINGS: UPRR

MARCH 17, 2023
ROLL 5 OF 23

© 2023 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED