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

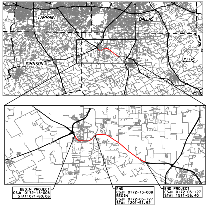
ROADWAY TYPE	DESIGN SPEED
MAINLANES	65 MPH
RAMPS	50 MPH
FRONTAGE ROADS	45 MPH
CROSS STREETS (MINIMUM)	30 MPH

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 4 OF 23

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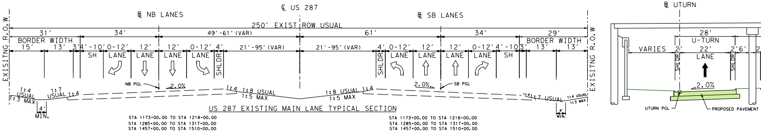
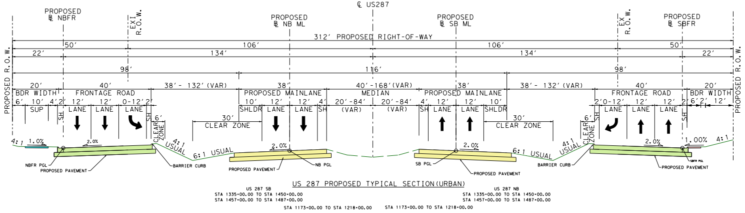
PLAN LEGEND:

🟨	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
℄ UTURN
250' EXIST ROW USUAL
EXISTING R.O.W.
BORDER WIDTH
SH
LANE
SHLDR
NB PGL
SB PGL
2.0%
1:4 USUAL
1:3 MAX
1:8 USUAL
1:5 MAX
4' MIN.
VARIES
28'
U-TURN
22'
UTURN PGL
PROPOSED PAVEMENT

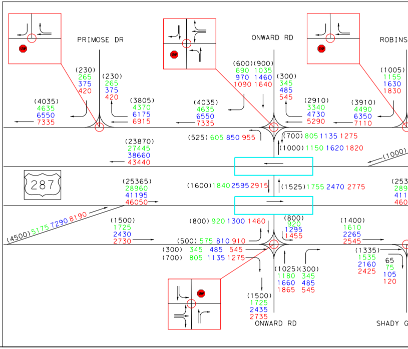
US 287 EXISTING MAIN LANE TYPICAL SECTION
STA 1173+00.00 TO STA 1218+00.00
STA 1285+00.00 TO STA 1317+00.00
STA 1457+00.00 TO STA 1510+00.00

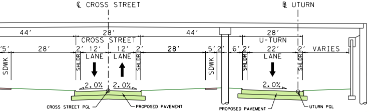

℄ US287
PROPOSED ℄ NBFR
PROPOSED ℄ NB ML
PROPOSED ℄ SB ML
PROPOSED ℄ SBFR
EX R.O.W.
PROPOSED R.O.W.
312' PROPOSED RIGHT-OF-WAY
106'
134'
98'
116'
50'
22'
BDR WIDTH
FRONTAGE ROAD
PROPOSED MAINLANE
MEDIAN
40'-168' (VAR)
38' - 132' (VAR)
SUP
LANE
SHLDR
SH
30' CLEAR ZONE
6' CLEAR ZONE
2.0%
1.0%
4:1 USUAL
6:1 USUAL
NBFR PGL
NB PGL
SB PGL
SBFR PGL
BARRIER CURB
PROPOSED PAVEMENT

US 287 PROPOSED TYPICAL SECTION (URBAN)
US 287 SB
STA 1335+00.00 TO STA 1450+00.00
STA 1457+00.00 TO STA 1487+00.00
US 287 NB
STA 1335+00.00 TO STA 1450+00.00
STA 1457+00.00 TO STA 1487+00.00
STA 1173+00.00 TO STA 1218+00.00
STA 1173+00.00 TO STA 1218+00.00

PARCEL ID	OWNER	PROPERTY IMPACT	AREA (ACRES)
155	TEXAS DEPARTMENT OF TRANSPORTATION	N / A	N / A
157	STANLEY ED & LINDA	ROW ACQUISITION	0.25
159	SAVAGE TERRY & LUANN	ROW ACQUISITION	0.10
161	POPLAR LTANYA & FORTENBERRY JOHNNY	ROW ACQUISITION	0.06
163	CLARK THOMAS L	N / A	N / A
165	RIGSBYS GARDEN CENTER LLC	N / A	N / A
167	PARAGON SELF STORAGE LLC	ROW ACQUISITION	0.36
168	ROCKSTEADY LLC	N / A	N / A
169	PARAGON SELF STORAGE LLC	ROW ACQUISITION	0.21
170	BURTON LESTER B & JANET	N / A	N / A
171	CURRY JOSHUA D	ROW ACQUISITION	0.06
172	CONFIDENTIAL	N / A	N / A
173	BEECHNUT INVESTMENTS LLC	ROW ACQUISITION	0.28
174	SILKEN INC	ROW ACQUISITION	0.11
175	BTFOTH PROPERTIES I LP	ROW ACQUISITION	0.00
176	D2 REDDEN LLC	ROW ACQUISITION	0.28
177	PAXOS LEASING MANAGEMENT INC	N / A	N / A
178	NORTHSTAR FARMS INC	ROW ACQUISITION	0.07
179	MAULDIN FAMILY TRUST	N / A	N / A
180	LIBERTY CDL HOLDINGS LLC	ROW ACQUISITION	0.15
181	MAULDIN FAMILY TRUST	N / A	N / A
182	MTH PROPERTIES LP	ROW ACQUISITION	0.01
183	ALJABRI ALAA	N / A	N / A
184	HILL WAYNE & ELAINE	ROW & DRAINAGE ESMT	0.13
185	D & Y CONSTRUCTION &	N / A	N / A
186	HILL WAYNE	ROW & DRAINAGE ESMT	0.03
187	D & Y CONSTRUCTION &	N / A	N / A
188	HILL WAYNE & ELAINE	N / A	N / A
189	MIDLO 287 INVESTMENTS LLC	N / A	N / A
190	HILL WAYNE	ROW ACQUISITION	0.18
191	MC COY CORPORATION	N / A	N / A
192	NO PARCEL DATA	N / A	N / A
194	HIGH POINTE INVESTMENTS LLC	ROW ACQUISITION	0.07
196	HIGH POINTE INVESTMENTS LLC	ROW ACQUISITION	0.12
198	HIGH POINTE INVESTMENTS LLC	ROW ACQUISITION	0.08
200	WINDELL VALERIE & SEGRAVES DONNA	ROW ACQUISITION	0.29
202	OMEILIA STEPHEN & RHONDA R	ROW ACQUISITION	0.12
204	STONEGATE CHURCH	ROW ACQUISITION	0.51

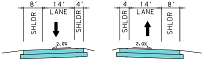
PARCEL ID	OWNER	PROPERTY IMPACT	AREA (ACRES)
206	KAMY REAL PROPERTY TRUST	N / A	N / A
208	MIDLOTHIAN BUTANE GAS	ROW ACQUISITION	0.14
210	STONEGATE CHURCH	N / A	N / A
212	STONEGATE CHURCH	N / A	N / A
214	STONEGATE CHURCH	N / A	N / A
216	AZAM PROPERTIES INC	N / A	N / A


PRIMOSE DR
ONWARD RD
ROBINS
287
ONWARD RD
SHADY G
(230) 265 375 420
(4035) 4635 6550 7335
(3805) 4370 6175 6915
(600) (900) 690 1035 970 1460 1090 1640
(300) 345 485 545
(2910) 3340 4730 5290
(3910) 4490 6350 7110
(1005) 1155 1630 1830
(525) 605 850 955
(700) 805 1135 1275
(1000) 1150 1620 1820
(23870) 27445 38660 43440
(25365) 28960 41195 46050
(1600) 1840 2595 2915
(1525) 1755 2470 2775
(4500) 5175 7290 8190
(1500) 1725 2430 2730
(800) 920 1300 1460
(500) 575 810 910
(1400) 1610 2265 2545
(1335) 1535 2160 2425
65 75 105 120
(1025) 1180 1660 1865
(300) 345 485 545
(1500) 1725 2435 2735


℄ CROSS STREET
℞ UTURN
44'
28'
44'
28'
CROSS STREET
U-TURN
5'
28'
2'
12'
12'
2'
28'
5'
2'
6'
2'
22'
2'
VARIES
SDWK
SHLDR
LANE
LANE
SHLDR
SDWK
SHLDR
LANE
SHLDR
2.0%
2.0%
2.0%
CROSS STREET PGL
PROPOSED PAVEMENT
PROPOSED PAVEMENT
UTURN PGL

CROSS STREET TYPICAL SECTION

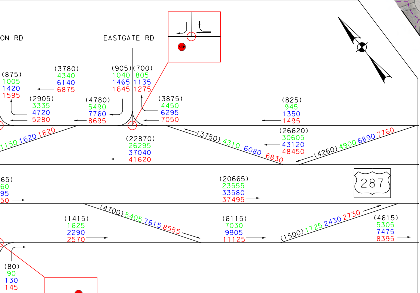
ONWARD RD
STOUT RD
REX ODOM DR
SARDIS ST


8'
14'
4'
SHLDR
LANE
SHLDR
2.0%
4
14'
8'
SHLDR
LANE
SHLDR
2.0%

PROPOSED RAMP TYPICAL SECTION

PROPOSED TYPICAL SECTION NB RAMP

PROPOSED TYPICAL SECTION SB RAMP

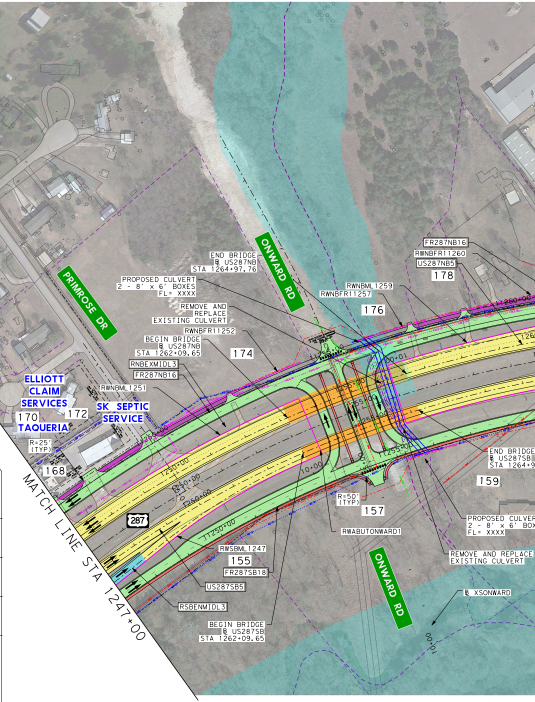

ON RD
EASTGATE RD
(875)
1005
1420
1595
(3780)
4340
6140
6875
(905)
1040
1465
1645
(700)
805
1135
1275
(2905)
3335
4720
5280
(4780)
5490
7760
8695
(3875)
4450
6295
7050
(825)
945
1350
1495
1150 1620 1820
(22870)
26295
37040
41620
(3750) 4310 6080 6830
(26620)
30605
43120
48450
(4260) 4900 6890 7760
65)
60
95
50
(20665)
23555
33580
37495
287
(4700) 5405 7615 8555
(1415)
1625
2290
2570
(6115)
7030
9905
11125
(1500) 1725 2430 2730
(4615)
5305
7475
8395
(80)
90
130
145
ROVE RD

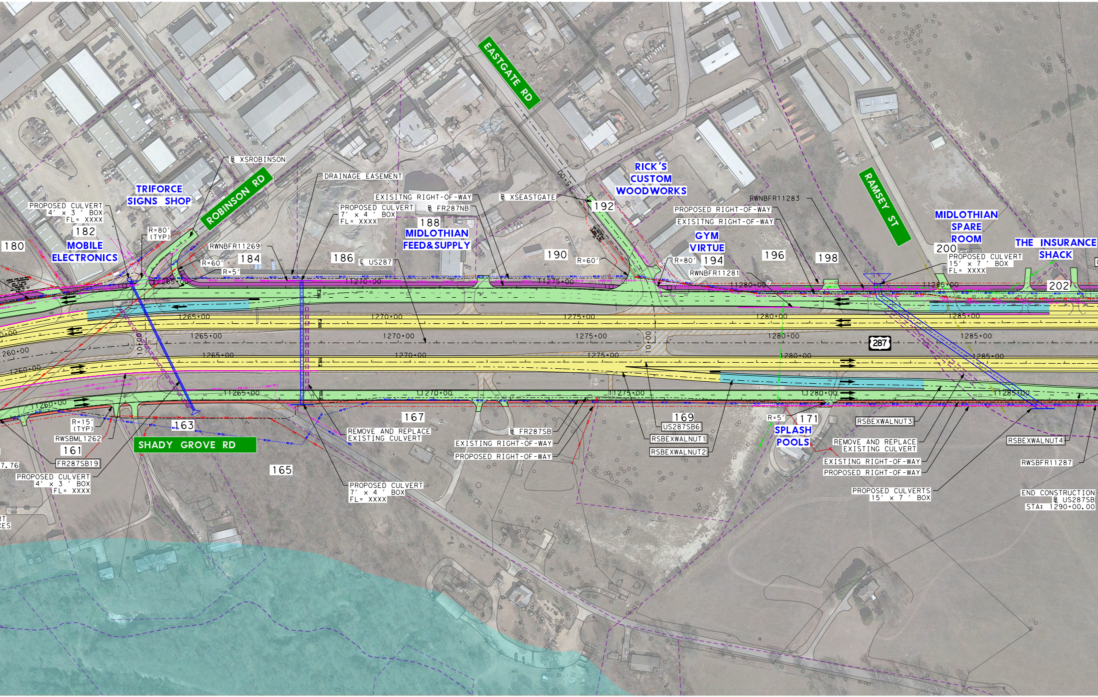
to BUS 287R North in Ellis County.

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

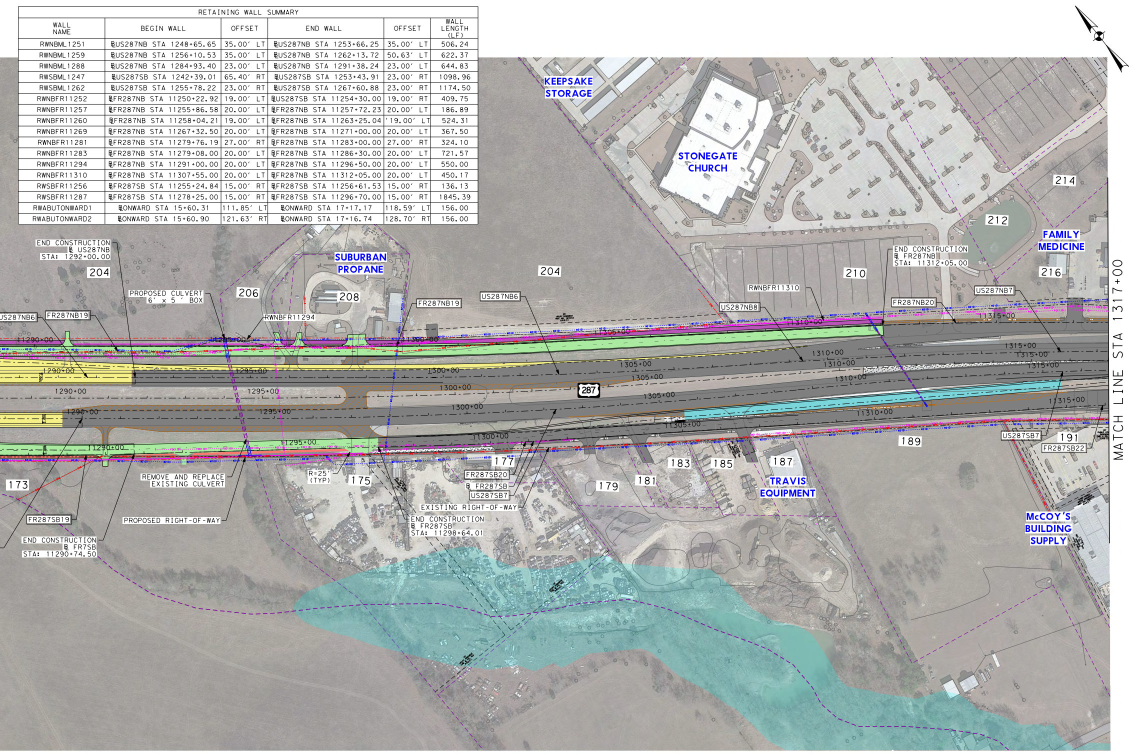
LEGEND
(XXXX) - 2022 ADT
XXXX - 2028 ADT
XXXX - 2048 ADT
XXXX - 2058 ADT


PRIMROSE DR
ONWARD RD
ONWARD RD
ELLIOTT CLAIM SERVICES
SK SEPTIC SERVICE
TAQUERIA
170
172
168
174
176
178
155
157
159
END BRIDGE
℞ US287NB
STA 1264+97.76
PROPOSED CULVERT
2 - 8' x 6' BOXES
FL= XXXX
REMOVE AND REPLACE EXISTING CULVERT
RWNBFR11252
BEGIN BRIDGE
℞ US287NB
STA 1262+09.65
RNBEXMIDL3
FR287NB16
RWNBML1251
FR287NB16
RWNBFR11260
US287NB5
RWNBML1259
RWNBFR11257
R=25'
(TYP)
R=50'
(TYP)
END BRIDGE
℞ US287SB
STA 1264+9
PROPOSED CULVER
2 - 8' x 6' BOX
FL= XXXX
REMOVE AND REPLACE EXISTING CULVERT
RWABUTONWARD1
RWSBML1247
FR287SB18
US287SB5
RSBENMIDL3
BEGIN BRIDGE
℞ US287SB
STA 1262+09.65
℞ XSONWARD
287
MATCH LINE STA 1247+00
1250+00
1255+00
1260+00
10+00



EASTGATE RD
ROBINSON RD
RAMSEY ST
SHADY GROVE RD
TRIFORCE SIGNS SHOP
MOBILE ELECTRONICS
MIDLOTHIAN FEED&SUPPLY
RICK'S CUSTOM WOODWORKS
GYM VIRTUE
MIDLOTHIAN SPARE ROOM
THE INSURANCE SHACK
SPLASH POOLS
℄ XSROBINSON
DRAINAGE EASEMENT
EXISING RIGHT-OF-WAY
℄ FR287NB
℄ XSEASTGATE
RWNBFR11283
PROPOSED RIGHT-OF-WAY
EXISITING RIGHT-OF-WAY
PROPOSED CULVERT 4' x 3 ' BOX FL= XXXX
PROPOSED CULVERT 7' x 4 ' BOX FL= XXXX
PROPOSED CULVERT 15' x 7 ' BOX FL= XXXX
R=80' (TYP)
R=60'
R=5'
RWNBFR11269
℄ US287
R=60'
R=80'
RWNBFR11281
180
182
184
186
188
190
192
194
196
198
200
202
161
163
165
167
169
171
R=15' (TYP)
RWSBML1262
FR287SB19
7.76
PROPOSED CULVERT 4' x 3 ' BOX FL= XXXX
REMOVE AND REPLACE EXISTING CULVERT
PROPOSED CULVERT 7' x 4 ' BOX FL= XXXX
℄ FR287SB
EXISTING RIGHT-OF-WAY
PROPOSED RIGHT-OF-WAY
US287SB6
RSBEXWALNUT1
RSBEXWALNUT2
R=5'
RSBEXWALNUT3
REMOVE AND REPLACE EXISTING CULVERT
EXISTING RIGHT-OF-WAY
PROPOSED RIGHT-OF-WAY
PROPOSED CULVERTS 15' x 7 ' BOX
RSBEXWALNUT4
RWSBFR11287
END CONSTRUCTION ℄ US287SB STA: 1290+00.00
287
11265+00
11270+00
11275+00
11280+00
11285+00
1265+00
1270+00
1275+00
1280+00
1285+00
1260+00
10+00
5+00
RT
RES

RETAINING WALL SUMMARY					
WALL NAME	BEGIN WALL	OFFSET	END WALL	OFFSET	WALL LENGTH (LF)
RWNBML1251	℄US287NB STA 1248+65.65	35.00′ LT	℄US287NB STA 1253+66.25	35.00′ LT	506.24
RWNBML1259	℄US287NB STA 1256+10.53	35.00′ LT	℄US287NB STA 1262+13.72	50.63′ LT	622.37
RWNBML1288	℄US287NB STA 1284+93.40	23.00′ LT	℄US287NB STA 1291+38.24	23.00′ LT	644.83
RWSBML1247	℄US287SB STA 1242+39.01	65.40′ RT	℄US287SB STA 1253+43.91	23.00′ RT	1098.96
RWSBML1262	℄US287SB STA 1255+78.22	23.00′ RT	℄US287SB STA 1267+60.88	23.00′ RT	1174.50
RWNBFR11252	℄FR287NB STA 11250+22.92	19.00′ LT	℄US287SB STA 11254+30.00	19.00′ RT	409.75
RWNBFR11257	℄FR287NB STA 11255+86.58	20.00′ LT	℄FR287NB STA 11257+72.23	20.00′ LT	186.89
RWNBFR11260	℄FR287NB STA 11258+04.21	19.00′ LT	℄FR287NB STA 11263+25.04	′19.00′ LT	524.31
RWNBFR11269	℄FR287NB STA 11267+32.50	20.00′ LT	℄FR287NB STA 11271+00.00	20.00′ LT	367.50
RWNBFR11281	℄FR287NB STA 11279+76.19	27.00′ RT	℄FR287NB STA 11283+00.00	27.00′ RT	324.10
RWNBFR11283	℄FR287NB STA 11279+08.00	20.00′ LT	℄FR287NB STA 11286+30.00	20.00′ LT	721.57
RWNBFR11294	℄FR287NB STA 11291+00.00	20.00′ LT	℄FR287NB STA 11296+50.00	20.00′ LT	550.00
RWNBFR11310	℄FR287NB STA 11307+55.00	20.00′ LT	℄FR287NB STA 11312+05.00	20.00′ LT	450.17
RWSBFR11256	℄FR287SB STA 11255+24.84	15.00′ RT	℄FR287SB STA 11256+61.53	15.00′ RT	136.13
RWSBFR11287	℄FR287SB STA 11278+25.00	15.00′ RT	℄FR287SB STA 11296+70.00	15.00′ RT	1845.39
RWABUTONWARD1	℄ONWARD STA 15+60.31	111.85′ LT	℄ONWARD STA 17+17.17	118.59′ LT	156.00
RWABUTONWARD2	℄ONWARD STA 15+60.90	121.63′ RT	℄ONWARD STA 17+16.74	128.70′ RT	156.00



KEEPSAKE STORAGE
STONEGATE CHURCH
SUBURBAN PROPANE
FAMILY MEDICINE
TRAVIS EQUIPMENT
McCOY'S BUILDING SUPPLY
END CONSTRUCTION ℄ US287NB STA: 1292+00.00
END CONSTRUCTION ℄ FR287NB STA: 11312+05.00
END CONSTRUCTION ℄ FR287SB STA: 11298+64.01
END CONSTRUCTION ℄ FR7SB STA: 11290+74.50
PROPOSED CULVERT 6′ x 5 ′ BOX
REMOVE AND REPLACE EXISTING CULVERT
PROPOSED RIGHT-OF-WAY
EXISTING RIGHT-OF-WAY
R=25′ (TYP)
RWNBFR11294
RWNBFR11310
US287NB6
FR287NB19
US287NB8
FR287NB20
US287NB7
US287SB7
FR287SB22
FR287SB19
FR287SB20
℄ FR287SB
287
173
175
177
179
181
183
185
187
189
191
204
206
208
210
212
214
216
1290+00
11290+00
1295+00
11295+00
1300+00
11300+00
1305+00
11305+00
1310+00
11310+00
1315+00
11315+00
MATCH LINE STA 1317+00

Texas Department of Transportation

DALLAS DISTRICT
CEASON CLEMENS, PE, DISTRICT ENGINEER

60% DESIGN SCHEMATIC

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ELLIS COUNTY

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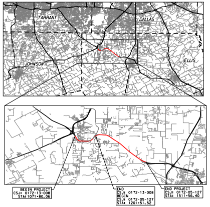

TARRANT
DALLAS
JOHNSON
ELLIS
BEGIN PROJECT CSJ: 0172-13-008 STA: 1071+80.06
END CSJ: 0172-13-008 BEGIN CSJ: 0172-05-127 STA: 1201+51.52
END PROJECT CSJ: 0172-05-127 STA: 1511+56.40

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

EQUATIONS: NONE
RR CROSSINGS: UPRR

MARCH 17, 2023
ROLL 4 OF 23

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