5/30/2023 8:21:34 PM

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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
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9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OF NOMINAL FACE OF CURB, RAIL BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
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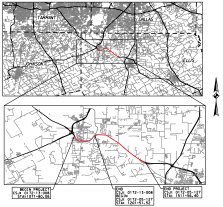
TARRANT
DALLAS
JOHNSON
ELLIS
BEGIN PROJECT
CSJ: 0172-13-008
STA: 1071+80.06
END
CSJ: 0172-13-008
BEGIN
CSJ: 0172-05-127
STA: 1201+51.52
END PROJECT
CSJ: 0172-05-127
STA: 1511+56.40

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	03/22/23

EQUATIONS: NONE
RR CROSSINGS: UPRR

MARCH 17, 2023
ROLL 1 OF 23

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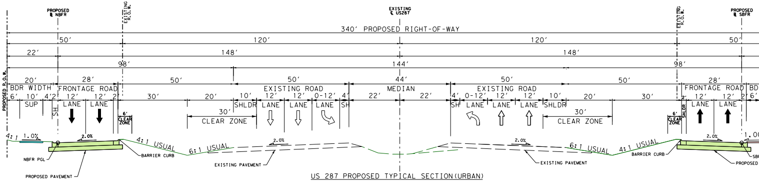
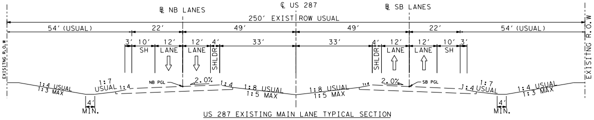
PLAN LEGEND:

🟨	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


PROPOSED ℄ NBFR
EXISTING R.O.W.
EXISTING ℄ US287
EXISTING R.O.W.
PROPOSED ℄ SBFR
340' PROPOSED RIGHT-OF-WAY
50'
120'
120'
50'
22'
148'
148'
98'
144'
98'
PROPOSED R.O.W.
20'
28'
50'
50'
44'
50'
50'
28'
BDR WIDTH
FRONTAGE ROAD
EXISTING ROAD
MEDIAN
EXISTING ROAD
FRONTAGE ROAD
BDR
6' 10' 4' 2'
12' 12' 2'
30'
20'
10'
12'
12'
0-12'
4'
22'
22'
4'
0-12'
12'
12'
10'
20'
30'
2' 12' 12' 2' 6'
SUP
SH
LANE
LANE
6' CLEAR ZONE
30' CLEAR ZONE
SHLDR
LANE
LANE
LANE
SH
SH
LANE
LANE
LANE
SHLDR
30' CLEAR ZONE
6' CLEAR ZONE
SHLDR
LANE
LANE
4:1
1.0%
2.0%
4:1 USUAL
6:1 USUAL
2.0%
2.0%
6:1 USUAL
4:1 USUAL
2.0%
1.0%
NBFR PGL
BARRIER CURB
EXISTING PAVEMENT
PROPOSED PAVEMENT
EXISTING PAVEMENT
BARRIER CURB
SBFR
PROPOSED

US 287 PROPOSED TYPICAL SECTION (URBAN)


℄ US 287
℄ NB LANES
℄ SB LANES
250' EXIST ROW USUAL
54' (USUAL)
22'
49'
49'
22'
54' (USUAL)
EXISTING R.O.W
EXISTING R.O.W
3' 10' 12' 12' 4'
33'
33'
4' 12' 12' 10' 3'
SH
LANE
LANE
SHLDR
SHLDR
LANE
LANE
SH
1:4 USUAL
1:3 MAX
1:7 USUAL
1:4
NB PGL
2.0%
1:4
1:8 USUAL
1:5 MAX
1:8 USUAL
1:5 MAX
1:4
2.0%
SB PGL
1:4
1:7 USUAL
1:4 USUAL
1:3 MAX
4' MIN.
4' MIN.

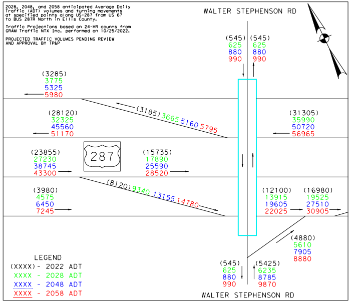
US 287 EXISTING MAIN LANE TYPICAL SECTION

RETAINING WALL SUMMARY					
WALL NAME	BEGIN WALL	OFFSET	END WALL	OFFSET	WALL LENGTH (LF)
RWNBML1093	℄US287NB STA 1093+02.27	25.11' LT	℄US287NB STA 1094+04.09	25.27' LT	101.83
RWSBML1087	℄US287SB STA 1084+84.04	23.00' RT	℄US287SB STA 1090+54.34	23.00' RT	570.31
RWSBML1104	℄US287SB STA 1103+42.11	26.69' RT	℄US287SB STA 1105+04.86	25.32' RT	164.88
RWNBFR11085	℄FR287NB STA 11079+59.28	19.00' LT	℄US287NB STA 11090+00.00	19.00' LT	1041.68
RWNBFR11093	℄FR287NB STA 11091+00.00	19.00' LT	℄US287NB STA 11095+00.00	19.00' LT	400.00
RWNBFR11095	℄FR287NB STA 11094+00.00	27.00' RT	℄US287NB STA 11096+16.71	27.00' RT	216.71
RWNBFR11100	℄FR287NB STA 11099+00.00	19.00' LT	℄US287NB STA 11101+56.22	19.00' LT	256.22
RWNBFR11107	℄FR287NB STA 11103+00.00	27.00' RT	℄US287NB STA 11111+18.32	27.00' RT	831.14
RWSBFR11075	℄FR287SB STA 11073+89.99	20.83' RT	℄FR287SB STA 11076+89.32	21.00' RT	296.33
RWSBFR11076	℄FR287SB STA 11074+04.16	19.00' LT	℄FR287SB STA 11077+68.18	19.00' LT	366.60
RWSBFR11081	℄FR287SB STA 11078+65.01	33.26' LT	℄FR287SB STA 11083+65.62	33.00' LT	499.47
RWSBFR11085	℄FR287SB STA 11079+35.16	21.00' RT	℄FR287SB STA 11091+82.23	15.18' RT	1248.12
RWSBFR11096	℄FR287SB STA 11091+82.25	27.38' LT	℄FR287SB STA 11100+15.00	27.00' LT	832.80
RWSBFR11102	℄FR287SB STA 11100+00.00	14.00' RT	℄FR287SB STA 11103+98.77	33.51' RT	407.48
RWSBFR11107	℄FR287SB STA 11104+49.34	34.86' RT	℄FR287SB STA 11109+18.01	14.00' RT	478.58
RWSBFR11109	℄FR287SB STA 11107+90.52	27.00' LT	℄FR287SB STA 11110+35.37	27.00' LT	241.76

2028, 2048, and 2058 anticipated Average Daily Traffic (ADT) volumes and turning movements at specified points along US-287 from US 67 to BUS 287R North in Ellis County.

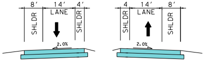
Traffic Projections based on 24-HR counts from GRAM Traffic NTX Inc. performed on 10/25/2022.

PROJECTED TRAFFIC VOLUMES PENDING REVIEW AND APPROVAL BY TP&P


WALTER STEPHENSON RD
(545) 625 880 990
(545) 625 880 990
(3285) 3775 5325 5980
(3185) 3665 5160 5795
(28120) 32325 45560 51170
(31305) 35990 50720 56965
(23855) 27230 38745 43300
287
(15735) 17890 25590 28520
(8120) 9340 13155 14780
(3980) 4575 6450 7245
(12100) 13915 19605 22025
(16980) 19525 27510 30905
(4880) 5610 7905 8880
(545) 625 880 990
(5425) 6235 8785 9870
WALTER STEPHENSON RD

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

22'
20'
R WIDTH
2' 12'
PROPOSED R.O.W.
0% 4:1
FR PGL
PAVEMENT

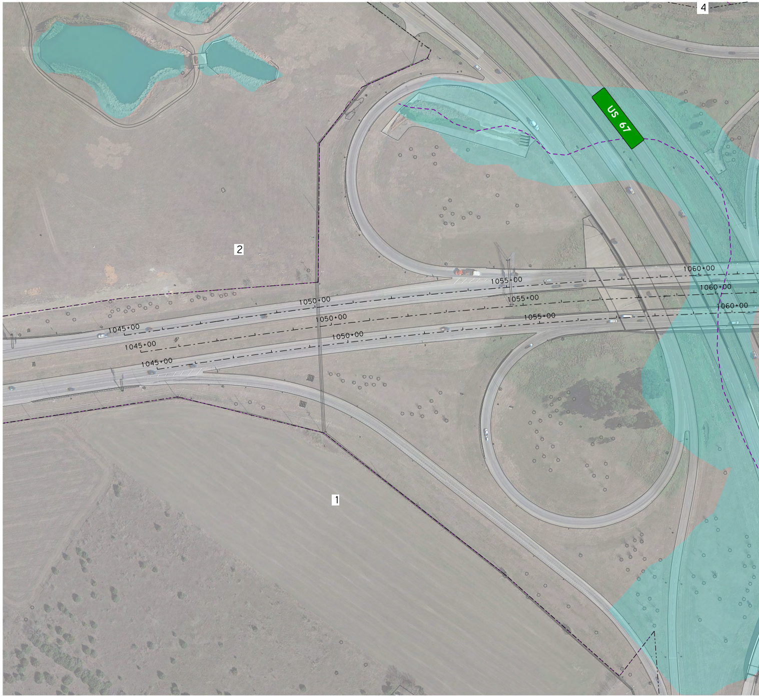

8'
14'
4'
SHLDR
LANE
SHLDR
2.0%
4
14'
8'
SHLDR
LANE
SHLDR
2.0%

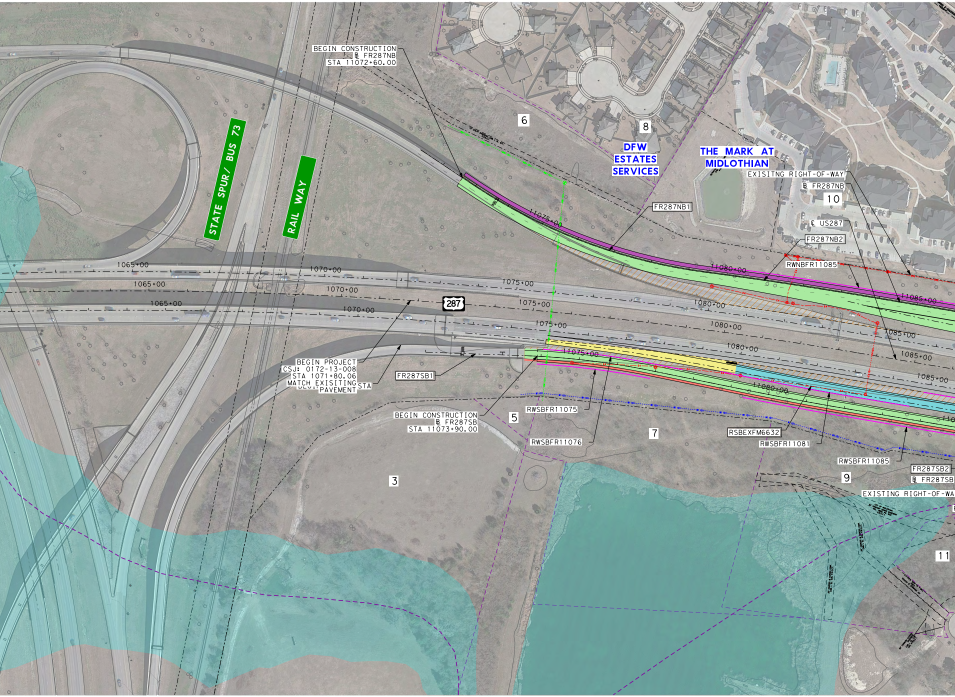
PROPOSED RAMP TYPICAL SECTION

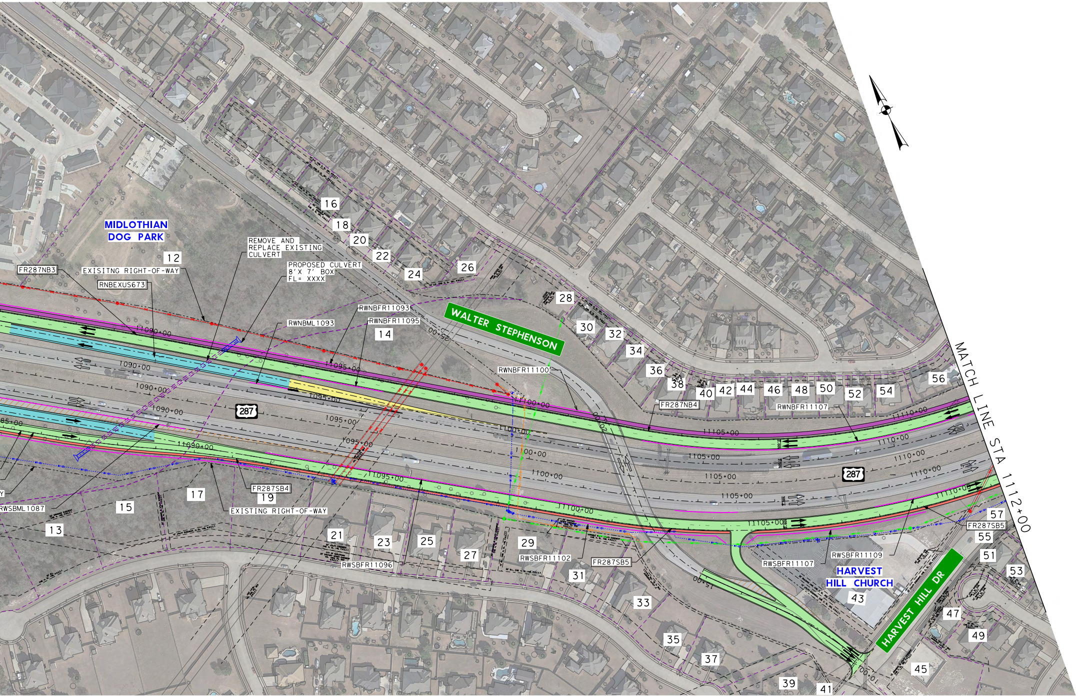
PROPOSED TYPICAL SECTION NB RAMP

PROPOSED TYPICAL SECTION SB RAMP

PARCEL ID	OWNER	PROPERTY IMPACT	AREA (ACRES)
1	AJP ADVANTAGE LLC	N / A	N / A
2	FOSTER JOHN B.	N / A	N / A
3	COFFMAN NELSON & KAREN	N / A	N / A
4	WEBER MG MIDLOTHIAN II LLC	N / A	N / A
5	COFFMAN NELSON	N / A	N / A
6	SKYVIEW ADDITION PROPERTY OWNERS ASSOC. IN	N / A	N / A
7	CORCORAN CHANIPUN S & JOE KEOVIXAY	N / A	N / A
8	VINCENT FAMILY TRUST	N / A	N / A
9	COTTON CREEK RANCH HOA ASSOCIATION	N / A	N / A
10	THE MARK AT WALTER STEPHENSON OWNER LLC	N / A	N / A
11	COTMID LLC	N / A	N / A
12	MIDLOTHIAN CITY OF	N / A	N / A
13	COTMID LLC	N / A	N / A
14	ELLIS COUNTY TRUSTEE	N / A	N / A
15	COTMID LLC	N / A	N / A
16	OLAYIWOLE FOLASADE O & MICHAEL O	N / A	N / A
17	COTMID LLC	N / A	N / A
18	WILLIAMS SYAMORIA	N / A	N / A
19	COTMID LLC	N / A	N / A
20	CRUTHERS TROY	N / A	N / A
21	BURNS PAUL & KAYLEIGH	N / A	N / A
22	CROWLEY DUSTIN T	N / A	N / A
23	GORDON FRANK J	N / A	N / A
24	ANDERSON RANDAL R	N / A	N / A
25	RIZZO VICTOR & METTA	N / A	N / A
26	JACOBS STEPHEN P & KATHERINE E	N / A	N / A
27	WILLIAMS BRUCE A & LA TASHA F	N / A	N / A
28	ELLIS COUNTY TRUSTEE	N / A	N / A
29	JONES KEVIN T & JOHNONA	N / A	N / A
30	WELLMAN BRAD W	N / A	N / A
31	AMBAM CLARIBEL Z	N / A	N / A
32	THURMAN LINDA M & RICHARD E MC ARTHUR	N / A	N / A
33	SUTTON PAUL & PAULA	N / A	N / A
34	THOMAS BRENT & ALYSSA R	N / A	N / A
35	SHEARIN MINDY M	N / A	N / A
36	GREEN BRANDI M	N / A	N / A
37	SULTZER AMANDA J & DANIEL T	N / A	N / A
38	LIN SHEENA & DANNY	N / A	N / A
39	BALL JOEY B & LETICIA L	N / A	N / A
40	MILLER JACOB R & KAYLIE R	N / A	N / A
41	NO PARCEL DATA	N / A	N / A
42	LYBRAND KENNETH W & TERRYE L	N / A	N / A
43	SHADY GROVE CHURCH OF	N / A	N / A
44	JONES NATHAN & MEREDITH	N / A	N / A
45	SHADY GROVE CHURCH	N / A	N / A
46	ARNOLD OWEN K & TANIA A	N / A	N / A
47	LOPEZ VICTORIA A	N / A	N / A
48	NGUYEN JENNIFER & MINH	N / A	N / A
49	JOHNSON JULIE J	N / A	N / A
50	ROBERTS CHRISTOPHER & KATHRYN	N / A	N / A
51	FLORES ANTHONY M & MORGAN	N / A	N / A
52	COX FREDDIE W	N / A	N / A
53	ENVANI GABRIEL F	N / A	N / A
54	BLAND SAMANTHA N	N / A	N / A
55	NO PARCEL DATA	N / A	N / A
56	HARDIN BOBBY D JR & SARAH V	N / A	N / A
57	NO PARCEL DATA	N / A	N / A


4
US 67
2
1060+00
1055+00
1060+00
1055+00
1060+00
1050+00
1055+00
1050+00
1045+00
1050+00
1045+00
1045+00
1


BEGIN CONSTRUCTION
℄ FR287NB
STA 11072+60.00
STATE SPUR/ BUS 73
RAIL WAY
6
8
DFW ESTATES SERVICES
THE MARK AT MIDLOTHIAN
EXISITNG RIGHT-OF-WAY
℄ FR287NB
10
FR287NB1
℄ US287
FR287NB2
RWNBFR11085
11075+00
11080+00
11085+00
1065+00
1065+00
1065+00
1070+00
1070+00
1070+00
1075+00
1075+00
1075+00
1080+00
1080+00
1080+00
1085+00
1085+00
1085+00
287
BEGIN PROJECT
CSJ: 0172-13-008
STA 1071+80.06
MATCH EXISITING PAVEMENT STA
FR287SB1
11075+00
11080+00
BEGIN CONSTRUCTION
℄ FR287SB
STA 11073+90.00
5
RWSBFR11075
RWSBFR11076
7
RSBEXFM6632
RWSBFR11081
RWSBFR11085
FR287SB2
℄ FR287SB
9
EXISTING RIGHT-OF-WA
3
11


MIDLOTHIAN DOG PARK
FR287NB3
EXISITING RIGHT-OF-WAY
RNBEXUS673
REMOVE AND REPLACE EXISTING CULVERT
PROPOSED CULVERT 8' X 7' BOX FL= XXXX
RWNBML1093
RWNBFR11093
RWNBFR11095
RWNBFR11100
WALTER STEPHENSON
FR287NB4
RWNBFR11107
MATCH LINE STA 1112+00
FR287SB4
EXISTING RIGHT-OF-WAY
RWSBML1087
RWSBFR11096
RWSBFR11102
FR287SB5
RWSBFR11107
RWSBFR11109
FR287SB5
HARVEST HILL CHURCH
HARVEST HILL DR
287
1090+00
1095+00
1100+00
1105+00
1110+00
11090+00
11095+00
11100+00
11105+00
11110+00
12
13
14
15
16
17
18
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Texas Department of Transportation

DALLAS DISTRICT
CEASON CLEMENS, PE, DISTRICT ENGINEER

60% DESIGN SCHEMATIC

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ELLIS COUNTY

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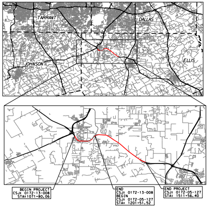
TARRANT
DALLAS
JOHNSON
ELLIS
BEGIN PROJECT
CSJ: 0172-13-008
STA: 1071+80.06
END
CSJ: 0172-13-008
BEGIN
CSJ: 0172-05-127
STA: 1201+51.52
END PROJECT
CSJ: 0172-05-127
STA: 1511+56.40

LOCATION MAP
N.T.S

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

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SCALE: 1" = 10' VERTICAL

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NAME	P.E. NO.	DATE
JOHN NGUYEN	86489	[illegible]

EQUATIONS: NONE
RR CROSSINGS: UPRR

MARCH 17, 2023
ROLL 1 OF 23

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