TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

FM 1171

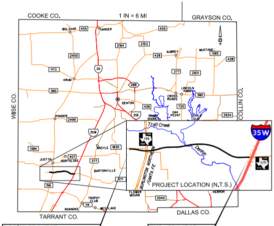
FROM WEST OF FM 156
TO IH 35W

PROJECT LENGTH: 3.386 MILES

CSJ: 1311-01-055

DENTON COUNTY

ROADWAY SECTION	DESIGN SPEED	FUNCTIONAL CLASS
FM 1171 (URBAN)	40 MPH	URBAN PRINCIPAL ARTERIAL
FM 1171 (RURAL)	70 MPH	RURAL PRINCIPAL ARTERIAL
FM 156	45 MPH	RURAL MINOR ARTERIAL
JOHN WILEY RD	30 MPH	LOCAL - URBAN MINOR ARTERIAL
TALLY BLVD	30 MPH	LOCAL - URBAN COLLECTOR STREET
HARMONSON RD	30 MPH	LOCAL - URBAN COLLECTOR STREET
REATTA RD	30 MPH	LOCAL
JUSTIN CEMETERY RD	30 MPH	LOCAL


COOKE CO.
1 IN = 6 MI
GRAYSON CO.
WISE CO.
COLLIN CO.
TARRANT CO.
DALLAS CO.
BOLIVAR
SANGER
AUBREY
MUSTANG
KRUM
DENTON
CROSS ROADS
LINCOLN PARK
OAK POINT
SHADY SHORES
LITTLE ELM
PONDER
ARGYLE
JUSTIN
NORTHLAKE
BARTONVILLE
TROPHY CLUB
ROANOKE
WESTLAKE
FLOWER MOUND
HEBRON
Trail Creek
Denton
BURLINGTON NORTHERN SANTA FE
35W
PROJECT LOCATION (N.T.S.)
455
2164
2153
428
2450
1173
35
377
2931
380
288
426
720
35E
2934
2499
1384
407
1830
156
1171
114
3040

BEGIN PROJECT
FM 1171: WEST OF FM 156
STA 14+20.00
CSJ: 1311-01-055

END PROJECT
FM 1171: IH35W
STA 193+00.00
CSJ: 1311-01-055

Texas Department of Transportation

FIRM REGISTRATION NO. F-230
tnp
teague nall & perkins

DATE APPROVED

This document is for interim review and is not intended for construction, bidding or permit purposes.
Christopher M. Hartke, P.E. Tx. Reg. 112377
3/1/2022

PRELIMINARY
SUBJECT TO CHANGE

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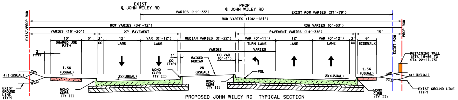
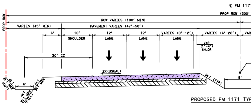
ROLL 1 of 3

FEBRUARY 2022

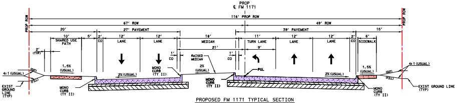
50 0 50 100 200
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 10'
SCALE IN FEET


EXIST ℄ JOHN WILEY RD
PROP ℄ JOHN WILEY RD
VARIES (11'-33')
EXIST ROW VARIES (37'-79')
ROW VARIES (106'-121')
ROW VARIES (34'-72')
ROW VARIES (0'-63')
VARIES (16'-20')
27' PAVEMENT
PAVEMENT VARIES (14'-38')
MEDIAN VARIES (0'-22')
SHARED USE PATH
LANE
TURN LANE
SIDEWALK
RAISED MEDIAN
RETAINING WALL (STA 19+95 TO STA 22+11.75)
EXIST/PROP ROW
EXIST ROW
PROP ROW
EXIST GROUND LINE (TYP)
MONO CURB (TY II)
4:1 (USUAL)
1.5% (USUAL)
2% (USUAL)
PGL
SHARED USE PATH STA LIMITS: STA 18+23.91 TO STA 22+18.71

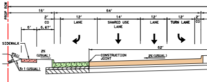
PROPOSED JOHN WILEY RD TYPICAL SECTION
REATTA DR TO TALLY BLVD
STA 14+20.00 TO STA 22+18.71


℄ FM 1171
PROP ROW (200'
ROW VARIES (100' MIN)
PAVEMENT VARIES (47'-50')
VARIES (45' MIN)
VARIES (0'-12')
VARIES (6'-26')
SHOULDER
LANE
SHLDR
30' CZ
2% (USUAL)
6:1 (TYP)
PROP ROW

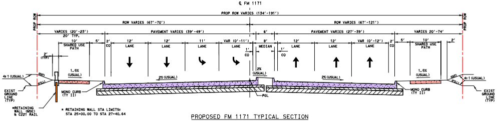
PROPOSED FM 1171 TYP
STA 58+90.00 TO STA


PROP ℄ FM 1171
116' PROP ROW
67' ROW
49' ROW
27' PAVEMENT
39' PAVEMENT
SHARED USE PATH
LANE
MEDIAN
TURN LANE
SIDEWALK
RAISED MEDIAN
MONO CURB (TY II)
EXIST GROUND LINE (TYP)
4:1 (USUAL)
1.5% (USUAL)
2% (USUAL)
PGL
PROP ROW

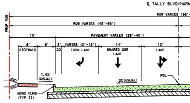
PROPOSED FM 1171 TYPICAL SECTION
STA 22+18.71 TO STA 23+18.71


54'
SIDEWALK
LANE
SHARED USE LANE
TURN LANE
CONSTRUCTION JOINT
52'
2% (USUAL)
3:1 (USUAL)
PROP ROW

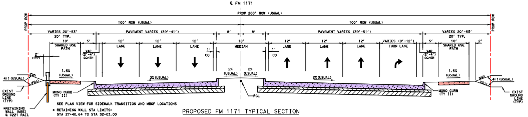
PROPOSED
STA


℄ FM 1171
PROP ROW VARIES (134'-191')
ROW VARIES (67'-70')
ROW VARIES (67'-121')
VARIES (20'-23')
PAVEMENT VARIES (39'-49')
PAVEMENT VARIES (27'-39')
VARIES 20'-74'
SHARED USE PATH
LANE
MEDIAN
MONO CURB (TY II)
EXIST GROUND LINE (TYP)
4:1 (USUAL)
1.5% (USUAL)
2% (USUAL)
PGL
*RETAINING WALL (MSE) & C221 RAIL
* RETAINING WALL STA LIMITS: STA 25+00.00 TO STA 27+40.64

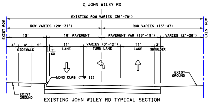
PROPOSED FM 1171 TYPICAL SECTION
STA 23+18.71 TO STA 27+40.64


℄ TALLY BLVD/HARM
ROW VARIES (86'-
ROW VARIES (43'-55')
PAVEMENT VARIES (28'-40')
SIDEWALK
TURN LANE
SHARED USE LANE
MONO CURB (TYP II)
1.5% (USUAL)
2% (USUAL)
PGL
PROP ROW

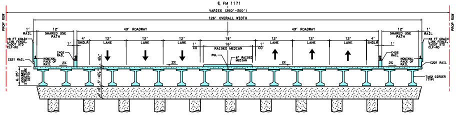
PROPOSED TALLY BLVD/HARMONSON
STA 60+76.00 TO STA 67+51.16
STA 60+05.90 TO STA 70+02.57


℄ FM 1171
PROP 200' ROW (USUAL)
100' ROW (USUAL)
VARIES 20'-53'
20' TYP.
PAVEMENT VARIES (39'-41')
PAVEMENT VARIES (39'-61')
SHARED USE PATH
LANE
MEDIAN
TURN LANE
MONO CURB (TY II)
EXIST GROUND LINE (TYP)
4:1 (USUAL)
1.5% (USUAL)
2% (USUAL)
PGL
*RETAINING WALL (MSE) & C221 RAIL
SEE PLAN VIEW FOR SIDEWALK TRANSITION AND MBGF LOCATIONS
* RETAINING WALL STA LIMITS: STA 27+40.64 TO STA 32+03.00 STA 36+25.00 TO STA 46+00.00
PROP ROW

PROPOSED FM 1171 TYPICAL SECTION
STA 27+40.64 TO STA 31+46.00
STA 37+11.00 TO STA 55+24.00

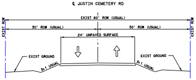

℄ JOHN WILEY RD
EXISTING ROW VARIES (35'-78')
ROW VARIES (28'-31')
ROW VARIES (15'-47)
18' PAVEMENT
PAVEMENT VAR (13'-19')
SIDEWALK
LANE
TURN LANE
SHOULDER
MONO CURB (TYP II)
EXIST GROUND
EXIST ROW

EXISTING JOHN WILEY RD TYPICAL SECTION
REATTA DR TO TALLY BLVD

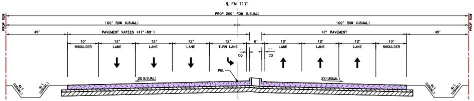

℄ FM 1171
VARIES (250'-300')
126' OVERALL WIDTH
49' ROADWAY
RAIL
SHARED USE PATH
SHLDR
LANE
RAISED MEDIAN
*8 FT CHAIN LINK FENCE, TXDOT STD CLF-RD
C221 RAIL
C402 RAIL
NOMINAL FACE OF RAIL
2%
TX62 GIRDER (TYP)
PROP ROW

* PEDESTRIAN FENCE STA LIMITS:
STA 33+60.00 TO STA 36+01.00 (LEFT)
STA 33+65.00 TO STA 36+13.00 (RIGHT)

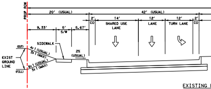
PROPOSED FM 1171 BRIDGE SECTION
OVER FM 156, B.N.S.F RAILROAD & WMSX RAILROAD
STA 31+46.00 TO STA 37+11.00


℄ JUSTIN CEMETERY RD
EXIST 60' ROW (USUAL)
30' ROW (USUAL)
24' UNPAVED SURFACE
EXIST GROUND
3:1 USUAL
EXIST ROW

EXISTING JUSTIN CEMETERY RD TYPICAL SECTION AT FM 1171

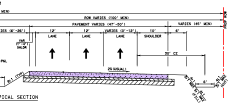

℄ FM 1171
PROP 200' ROW (USUAL)
100' ROW (USUAL)
45'
PAVEMENT VARIES (47'-59')
47' PAVEMENT
SHOULDER
LANE
TURN LANE
2% (USUAL)
PGL
4:1 (USUAL)
6:1 (USUAL)
PROP ROW

PROPOSED FM 1171 TYPICAL SECTION
STA 55+24.00 TO STA 58+90.00

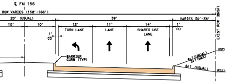

20' (USUAL)
42' (USUAL)
SIDEWALK
SHARED USE LANE
LANE
TURN LANE
EXIST GROUND LINE
2% (USUAL)
3:1 (MAX)
PROP ROW

EXISTING
STA 453

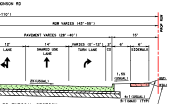
TYPICAL SECTIONS ARE NOT TO SCALE


MIN)
ROW VARIES (100' MIN)
PAVEMENT VARIES (47'-50')
VARIES (45' MIN)
PROP ROW
IES (6'-26')
12' LANE
12' LANE
VARIES (0'-12') LANE
10' SHOULDER
6'
VAR (1'-4') SHLDR
30' CZ
PGL
2% (USUAL)
6:1 (TYP)
3:1 MAX 4:1 (FILL)
4:1 3:1 MAX (CUT)
6'

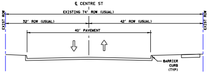
PICAL SECTION
61+50.00


℄ FM 156
ROW VARIES (158'-166')
20' (USUAL)
10'
10'
39'
12' TURN LANE
11' LANE
14' SHARED USE LANE
1' CO
VARIES 30'-38'
1' CO
EXIST ROW (BNSF)
BARRIER CURB (TYP)
4:1 (USUAL) 3:1 (MAX)
6:1 (USUAL)
(CUT)
(FILL)

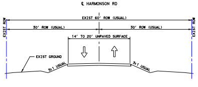
D FM 156 TYPICAL SECTION
453+91.35 TO STA 459+18.46


ONSON RD
-110')
ROW VARIES (43'-55')
PROP ROW
PAVEMENT VARIES (28'-40')
15'
12' LANE
14' SHARED USE LANE
VARIES (0'-12') TURN LANE
2' CO
6'
6' SIDEWALK
1.5% (USUAL)
2% (USUAL)
(CUT)
(FILL)
4:1 (USUAL)
3:1 (MAX) (TYP)
EXIST GROUND LINE (TYP)

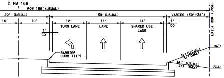
RD TYPICAL SECTION
(TALLY BLVD)
(HARMONSON RD)


℄ CENTRE ST
EXISTING 74' ROW (USUAL)
EXIST ROW
32' ROW (USUAL)
42' ROW (USUAL)
EXIST ROW
40' PAVEMENT
BARRIER CURB (TYP)

EXISTING TALLY BLVD TYPICAL SECTION

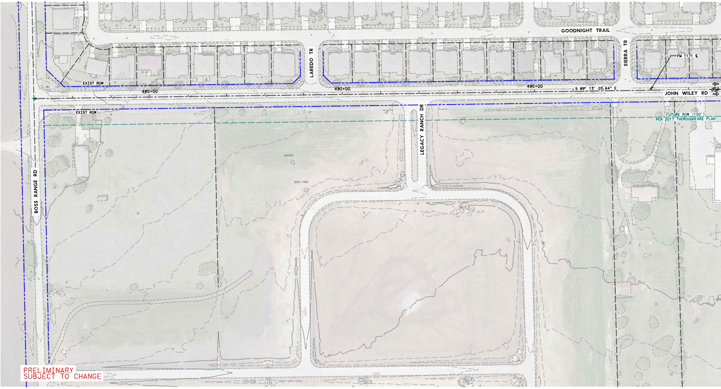

℄ HARMONSON RD
EXIST 60' ROW (USUAL)
EXIST ROW
30' ROW (USUAL)
30' ROW (USUAL)
EXIST ROW
14' TO 20' UNPAVED SURFACE
EXIST GROUND
3:1 USUAL
3:1 USUAL

EXISTING HARMONSON RD TYPICAL SECTION
STA 41+48.22 TO STA 50+00.00


℄ FM 156
ROW 156' (USUAL)
20' (USUAL)
10'
10'
39' (USUAL)
12' TURN LANE
11' LANE
14' SHARED USE LANE
1' CO
VARIES (30'-38')
1' CO
EXIST ROW (BNSF)
BARRIER CURB (TYP)
4:1 (USUAL) 3:1 (MAX)
6:1 (USUAL) 3:1 (MAX)
(CUT)
(FILL)

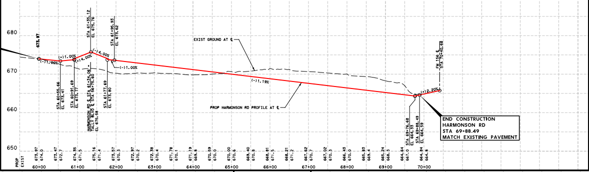
FM 156 TYPICAL SECTION
+91.35 TO STA 459+18.46

TYPICAL SECTIONS

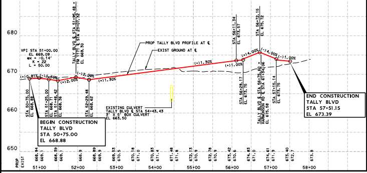

GOODNIGHT TRAIL
LAREDO TR
SIERRA TR
FM 1171 ℄
EXIST ROW
485+00
490+00
495+00
S 89° 13' 03.64" E
JOHN WILEY RD
EXIST ROW
LEGACY RANCH DR
FUTURE ROW (100')
PER 2017 THOROUGHFARE PLAN
BOSS RANGE RD

PRELIMINARY
SUBJECT TO CHANGE

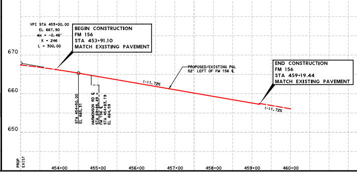
HARMONSON RD

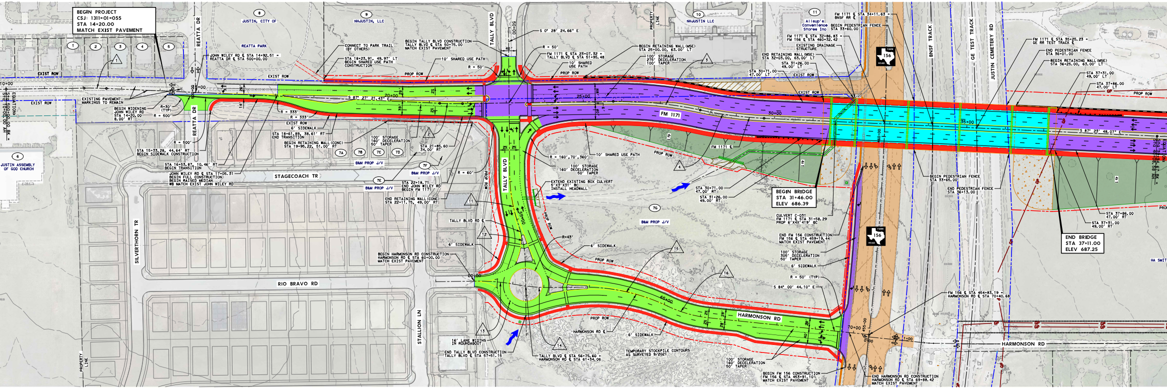


TALLY BLVD

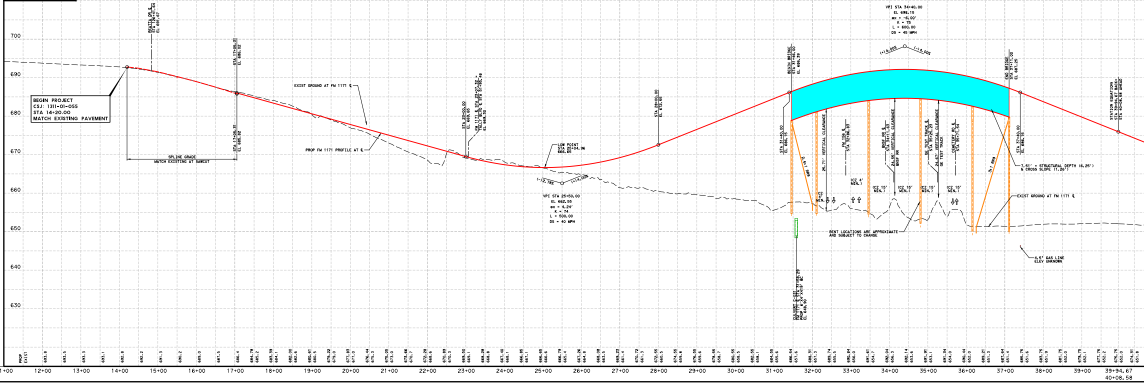


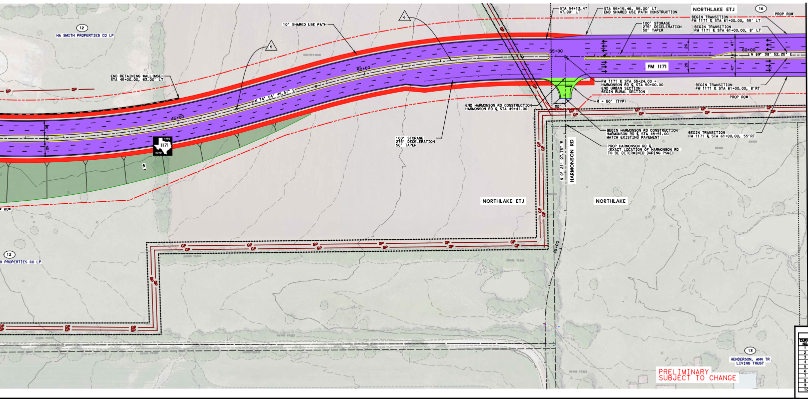
FM 156



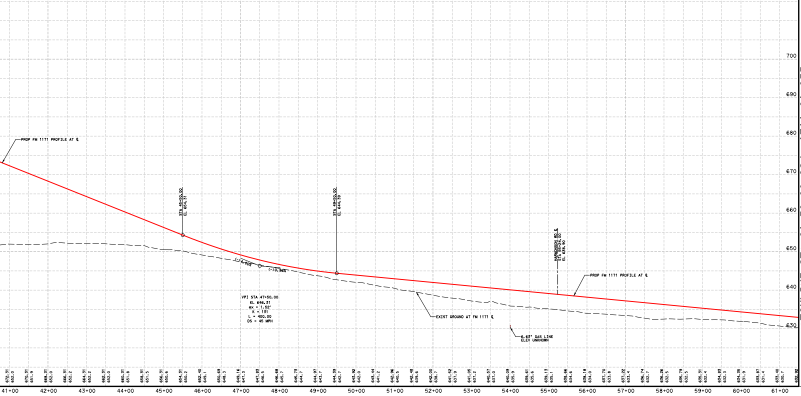

BEGIN PROJECT
CSJ: 1311-01-055
STA 14+20.00
MATCH EXIST PAVEMENT
REATTA DR
JUSTIN, CITY OF
REATTA PARK
NHJUSTIN, LLC
NHJUSTIN LLC
Allsup's Convenience Stores Inc
JUSTIN ASSEMBLY OF GOD CHURCH
B&M PROP J/V
HA SMIT
EXIST ROW
PROP ROW
10+00
EQUATION: Sta 500+00.00 BK = Sta 10+00.00 AH
JOHN WILEY RD ℄ STA 14+92.51 = REATTA DR ℄ STA 500+00.00
EXISTING PAVEMENT MARKINGS TO REMAIN
BEGIN WIDENING JOHN WILEY RD STA 14+20.00 8.00' RT
R=30' (TYP)
R = 500'
STA 15+33.28, 44.64' RT BEGIN SIDEWALK CONSTRUCTION
STA 16+53.87, 10.46' RT BEGIN TRANSITION
JOHN WILEY RD ℄ STA 17+05.31 BEGIN FULL CONSTRUCTION BEGIN RAISED MEDIAN WB MATCH EXIST JOHN WILEY RD
CONNECT TO PARK TRAIL (BY OTHERS)
STA 18+23.91, 49.97' LT BEGIN SHARED USE PATH CONSTRUCTION
S 87° 27' 21.43" E
20+00
R = 333'
6' SIDEWALK
STA 18+61.89, 38.61' RT END TRANSITION
BEGIN RETAINING WALL (CONC) STA 19+95.22, 51.00' RT
100' STORAGE 160' DECELERATION 50' TAPER
STA 21+85.60 34.00' RT
STA 22+18.71 END JOHN WILEY RD BEGIN FM 1171
END RETAINING WALL (CONC) STA 22+11.75, 49.00' RT
STAGECOACH TR
SILVERTHORN TR
RIO BRAVO RD
STALLION LN
PROPERTY LINE
TALLY BLVD
50+00
55+00
S 0° 28' 24.66" E
BEGIN TALLY BLVD CONSTRUCTION TALLY BLVD ℄ STA 50+75.00 MATCH EXIST PAVEMENT
40'
10' SHARED USE PATH
R = 50'
FM 1171 ℄ STA 23+07.32 = TALLY BLVD ℄ STA 51+95.48
R = 60'
R = 160', 70', 360'
100' STORAGE 160' DECELERATION 50' TAPER
EXTEND EXISTING BOX CULVERT 6'X3'X31' BC INSTALL HEADWALL
TALLY BLVD RD ℄
R=43'
BEGIN HARMONSON RD CONSTRUCTION HARMONSON RD ℄ STA 60+00.00 MATCH EXIST PAVEMENT
16' LANE WIDTHS IN ROUNDABOUT
END TALLY BLVD CONSTRUCTION TALLY BLVD ℄ STA 57+51.15
TALLY BLVD ℄ STA 56+75.60 = HARMONSON RD ℄ STA 61+34.06
HARMONSON RD ℄
TEMPORARY STOCKPILE CONTOURS AS SURVEYED 9/2021
HARMONSON RD
65+00
70+00
100' STORAGE 160' DECELERATION 50' TAPER
BEGIN FM 156 CONSTRUCTION FM 156 ℄ STA 453+91.10 MATCH EXIST PAVEMENT
END HARMONSON RD CONSTRUCTION HARMONSON RD ℄ STA 69+88.42 MATCH EXIST PAVEMENT
FM 156 ℄ STA 454+83.19 = HARMONSON RD ℄ STA 70+40.68
S 84° 00' 44.10" E
R = 50' (TYP)
6' SIDEWALK
100' STORAGE 305' DECELERATION 50' TAPER
END FM 156 CONSTRUCTION FM 156 ℄ STA 459+19.44 MATCH EXIST PAVEMENT
CULVERT C-031 FM 1171 ℄ STA 31+58.29 PROP 6'X4'X419' BC
BEGIN RETAINING WALL (MSE) STA 25+00.00, 63.00' LT
100' STORAGE 275' DECELERATION 100' TAPER
10' SHARED USE PATH
25+00
FM 1171
30+00
FM 1171 ℄
STA 30+71.00 47.00' LT
STA 31+26.00 49.00' LT
STA 30+71.00 47.00' RT
STA 31+26.00 49.00' RT
END RETAINING WALL (MSE) STA 32+03.00, 63.00' LT
EXISTING DRAINAGE STRUCTURE
FM 1171 ℄ STA 32+86.83 = FM 156 ℄ STA 460+32.42
BEGIN PEDESTRIAN FENCE STA 33+60.00
FM 1171 ℄ STA 34+11.63 = BNSF RR ℄
BEGIN BRIDGE STA 31+46.00 ELEV 686.39
FARM 156 ROAD
455+00
460+00
0+00
1+00
BNSF TRACK
GE TEST TRACK
JUSTIN CEMETERY RD
35+00
BEGIN PEDESTRIAN FENCE STA 33+65.00
END PEDESTRIAN FENCE STA 36+13.00
FM 1171 ℄ STA 35+25.23 = GE RR TEST TRACK ℄
END PEDESTRIAN FENCE STA 36+01.00
BEGIN RETAINING WALL (MSE) STA 36+25.00, 63.00' LT
STA 37+31.00 49.00' LT
STA 37+86.00 47.00' LT
S 87° 23' 48.07" E
STA 37+86.00 47.00' RT
STA 37+31.00 49.00' RT
END BRIDGE STA 37+11.00 ELEV 687.25
EQUATION: Sta 39+94.67 BK = Sta 40+08.58 AH
GP
4:1
2%
28'
39'
26'
14'
40'
6'
1 2 3 4 5 6 7A 7B 7C 7D 7E 7F 7G 8 9 10 11
1 2 3 4 11 12 13 14 15 16

FM 1171




12
HA SMITH PROPERTIES CO LP
10' SHARED USE PATH
5
6
END RETAINING WALL (MSE)
STA 45+00.00, 63.00' LT
N 74° 04' 45.37" E
45+00
50+00
55+00
60+00
FARM 1171 ROAD
100' STORAGE
275' DECELERATION
50' TAPER
STA 54+13.47
47.00' LT
STA 55+16.46, 55.00' LT
END SHARED USE PATH CONSTRUCTION
NORTHLAKE ETJ
16
PROP ROW
BEGIN TRANSITION
FM 1171 ℄ STA 61+00.00, 55' LT
BEGIN TRANSITION
FM 1171 ℄ STA 61+00.00, 8' LT
N 89° 38' 52.25" E
FM 1171
FM 1171 ℄ STA 55+24.00 =
HARMONSON RD ℄ STA 50+00.00
END URBAN SECTION
BEGIN RURAL SECTION
R = 50' (TYP)
30'
END HARMONSON RD CONSTRUCTION
HARMONSON RD ℄ STA 49+41.00
BEGIN TRANSITION
FM 1171 ℄ STA 61+00.00, 8'RT
BEGIN HARMONSON RD CONSTRUCTION
HARMONSON RD ℄ STA 48+91.00
MATCH EXISTING PAVEMENT
BEGIN TRANSITION
FM 1171 ℄ STA 61+00.00, 55'RT
PROP HARMONSON RD ℄
(EXACT LOCATION OF HARMONSON RD
TO BE DETERMINED DURING PS&E)
N 0° 21' 07.75" W
HARMONSON RD
NORTHLAKE ETJ
NORTHLAKE
GP
12
H PROPERTIES CO LP
13
HENDERSON, ANN TR
LIVING TRUST
PRELIMINARY
SUBJECT TO CHANGE

MATCHLINE STA 61+50.00 CSJ: 1311-01-055



MATCHLINE STA 61+50.00 CSJ: 1311-01-055

LEGEND

	EXISTING RIGHT OF WAY	⇨	EXISTING TRAFFIC DIRECTION
	PROPERTY LINES, ETJ/MUNICIPAL	→	PROPOSED TRAFFIC DIRECTION
	PROPOSED RIGHT OF WAY	XX	PARCEL IDENTIFICATION NUMBER
	DRAINAGE EASEMENT	▨	ROADWAY REMOVAL
	RETAINING WALL	🟪	PROPOSED ON-SYSTEM ROADWAY
GP	GAS	🟦	PROPOSED BRIDGE
	EXISTING UTILITY EASEMENT	🟩	PROPOSED LOCAL STREETS
	FLOODPLAIN BOUNDARY	⬛	PROPOSED DRIVEWAYS
	FLOODWAY BOUNDARY	🟥	PROPOSED SIDEWALK/SHARED USE PATHS
→ ○ ○	DITCH FLOW LINE	🟧	FM 156 ROADWAY
	MBGF, END SECTION AND RIPRAP	🟩	BRIDGE EMBANKMENT
→	DIRECTION OF WATER FLOW	🟪	FLOODWAY/FLOODPLAIN
	DRAINAGE STRUCTURES	⬜	PROJECT BY OTHERS
		▨	POTENTIAL DISPLACEMENT

UTILITY DISCLAIMER:
THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION.

PARCEL #	OWNER'S NAME	BUSINESS NAME
1	Allen, Alicia	
2	Frey, Melissa	
3	HH Holmes Holdings, LLC	
4	Zambrano, Justin	
5	Wade, Donna & George	
6	Justin Assembly of God Church	
7A-7G	B&M Prop J/V	
8	Justin, City of	
9	NHJustin, LLC	
10	NHJustin, LLC	
11	Allsup's Convenience Stores Inc	Allsup's
12	HA Smith Properties Co LP	
13	Henderson, Ann TR Living Trust	
14	Henderson, Ann TR Living Trust	
15	Kethcersid, Cameron B	
16	HA Smith Properties Co LP	
17	Kethcersid, Cameron B	
18	HA Smith Properties Co LP	
19	Kethcersid, Cameron B	
20	J Young Land And Cattle LTD	
21	J Young Land And Cattle LTD	
22	Charis & Associates, LLC	Quail Creek Shooting Range
23	Beall,Concrete Enterprises LTD	Beall Concrete
24	Beall,Concrete Enterprises LTD	Beall Concrete
25	Northlake Corners LLC	
26	Young, Jean	

TALLY BLVD CURVE DATA TABLE

CURVE NO.	PC STATION	PT STATION	T	L	R	Δ	D
11	53+79.44	55+13.48	67.61	134.04	415.00	18°30′ 20.11" (LT)	13°48′ 22.36"
12	55+13.48	56+19.53	53.48	106.05	333.00	18°14′ 49.47" (RT)	17°12′ 21.38"

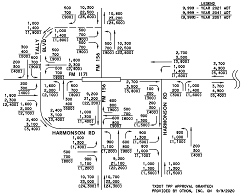
HARMONSON RD CURVE DATA TABLE

CURVE NO.	PC STATION	PT STATION	T	L	R	Δ	D
13	60+06.69	61+05.10	49.37	98.41	500.00	11°16′ 38.70" (RT)	11°27′ 32.96"
14	61+05.10	62+02.97	49.09	97.87	500.00	11°12′ 53.74" (LT)	11°27′ 32.96"
15	62+80.12	65+09.72	116.86	229.59	500.00	26°18′ 37.45" (RT)	11°27′ 32.96"
16	65+09.72	66+23.58	57.49	113.86	333.00	19°35′ 26.25" (RT)	17°12′ 21.38"

JOHN WILEY RD/FM 1171 HORIZONTAL ALIGNMENT DATA TABLE

CURVE NO.	P.I. STA	P.I. STAT - N	P.I. STA - E	PC STA	PT STA	T	L	R	Δ	D	SE
1	12+31.57	7,076,373.93	2,335,764.38	12+02.53	12+60.59	29.04	58.06	1,000.00	03°19′34.94" (RT)	05°43′46.48"	NC
2	21+56.76	7,075,332.86	2,336,678.68	21+27.15	21+86.35	29.61	59.20	1,000.00	03°23′30.35" (LT)	05°43′46.48"	NC
3	26+92.21	7,075,340.78	2,337,214.09	25+77.96	28+05.48	114.25	227.52	1,000.00	13°02′09.63" (RT)	05°43′46.48"	NC
4	28+89.32	7,075,298.96	2,337,407.72	28+05.48	29+72.77	83.84	167.29	1,000.00	09°35′05.92" (LT)	05°43′46.48"	NC
5	43+34.73	7,075,223.92	2,338,838.13	40+08.58	46+55.19	326.15	646.61	2,000.00	18°31′26.26" (LT)	02°51′53.24"	NC
6	51+43.43	7,075,457.32	2,339,621.29	48+70.02	54+13.47	273.41	543.45	2,000.00	15°34′06.88" (RT)	02°51′53.24"	NC
7	84+75.71	7,076,477.82	2,342,956.86	76+56.18	92+78.78	819.52	1622.59	4,680.00	19°51′53.56" (LT)	01°13′27.37"	4.0%
8	117+62.47	7,076,619.34	2,346,056.57	97+26.28	135+67.45	2036.20	3841.17	4,680.00	47°01′34.60" (RT)	01°13′27.37"	4.0%
9	160+57.11	7,074,578.07	2,350,095.97	157+02.17	164+04.75	354.95	702.58	2,000.00	20°07′38.87" (RT)	02°51′53.24"	NC
10	173+88.39	7,073,600.10	2,351,009.96	165+04.75	181+68.87	883.64	1664.12	2,000.00	47°40′24.78" (LT)	02°51′53.24"	NC

TRAFFIC DATA


LEGEND
9,999 - YEAR 2021 ADT
9,999 - YEAR 2041 ADT
[9,999] - YEAR 2051 ADT
TALLY BLVD
FM 156
FM 1171
HARMONSON RD
HARMONSON RD

TXDOT TPP APPROVAL GRANTED:
PROVIDED BY OTHON, INC. ON 9/9/2020
TRAFFIC NUMBERS TO BE UPDATED PENDING
LET DATE APPROVAL.

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS (PERFORMED ON 4/2018 & 9/2021) AND RECORD PLANS.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE CENTER OF INSIDE LANE.
4. DIMENSIONS ARE TO THE NOMINAL FACE OF CURB OR FACE OF RAIL UNLESS OTHERWISE NOTED.
5. APPROXIMATE FLOODPLAIN LIMITS ARE BASED ON FEMA FLOOD INSURANCE RATE MAP NUMBERS 48121C0485G AND 48121C0505G.
6. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING PS&E. SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
7. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED IN COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
8. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
9. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
10. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DENTON COUNTY APPRAISAL DISTRICT 6-25-2021.
11. DESIGN VEHICLE FOR TURN VARIES IN ACCORDANCE WITH RDM CHAPTER 7, SECTION 7
12. BEARINGS OF LINES SHOWN HEREON REFER TO GRID NORTH OF THE TEXAS COORDINATE SYSTEM OF 1983 (NORTH CENTRAL ZONE; NAD83(2011) EPOCH 2010) AS DERIVED LOCALLY FROM TXDOT5#325 VIRTUAL REFERENCE STATION (VRS) NETWORK VIA REAL TIME KINEMATIC (RTK) METHODS. A SURFACE ADJUSTMENT FACTOR OF 1.000150630 WAS USED TO SCALE GRID DISTANCES TO SURFACE. ALL COORDINATES AND DISTANCES SHOWN ARE SURFACE.
13. THE ELEVATIONS SHOWN ARE NAVD 88 AND WERE DERIVED FROM THE ABOVE RTK OBSERVATIONS. ORTHOMETRIC HEIGHTS WERE CALCULATED BY APPLYING THE GEOID09 MODEL TO THE ELLIPSOID HEIGHTS. NGS SECOND ORDER STATION K945 (ELEV=627.435#32) WAS HELD FIXED VERTICALLY AND NGS SECOND ORDER STATION N945, TXDOT STATIONS R0610035, R061088 AND R0610168 WERE USED AS QUALITY CONTROL CHECKS ON THE VERTICAL ADJUSTMENT.

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

FM 1171

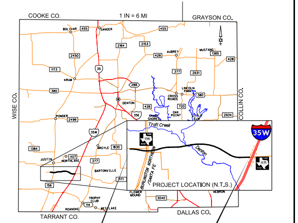
FROM WEST OF FM 156
TO IH 35W

PROJECT LENGTH: 3.386 MILES

CSJ: 1311-01-055

DENTON COUNTY

ROADWAY SECTION	DESIGN SPEED	FUNCTIONAL CLASS
FM 1171 (URBAN)	40 MPH	URBAN PRINCIPAL ARTERIAL
FM 1171 (RURAL)	70 MPH	RURAL PRINCIPAL ARTERIAL
FM 156	45 MPH	RURAL MINOR ARTERIAL
JOHN WILEY RD	30 MPH	LOCAL - URBAN MINOR ARTERIAL
TALLY BLVD	30 MPH	LOCAL - URBAN COLLECTOR STREET
HARMONSON RD	30 MPH	LOCAL - URBAN COLLECTOR STREET
REATTA RD	30 MPH	LOCAL
JUSTIN CEMETERY RD	30 MPH	LOCAL


COOKE CO.
1 IN = 6 MI
GRAYSON CO.
WISE CO.
COLLIN CO.
TARRANT CO.
DALLAS CO.
DENTON
KRUM
JUSTIN
NORTHLAKE
ARGYLE
BARTONVILLE
FLOWER MOUND
TROPHY CLUB
ROANOKE
WESTLAKE
HEBRON
Trail Creek
35W
PROJECT LOCATION (N.T.S.)

BEGIN PROJECT
FM 1171: WEST OF FM 156
STA 14+20.00
CSJ: 1311-01-055

END PROJECT
FM 1171: IH35W
STA 193+00.00
CSJ: 1311-01-055

Texas Department of Transportation

FIRM REGISTRATION NO. F-230
tnp
teague nall & perkins

DATE APPROVED

This document is for interim review and is not intended for construction, bidding or permit purposes.

Christopher W. Hartke,
P.E. Tx. Reg. 112377
3/1/2022

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PRELIMINARY
SUBJECT TO CHANGE

50 0 50 100 200
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 10'
SCALE IN FEET

ROLL 1 of 3

FEBRUARY 2022