Texas Department of Transportation

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DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

FM 663
60% DESIGN SCHEMATIC

ELLIS COUNTY, TEXAS
FM 663 FROM FM 875 TO US 287
CSJ: 0815-08-040
LENGTH: 3.48 MILES
DATED: APRIL 2025

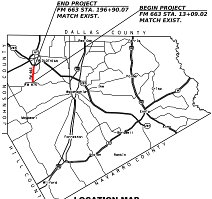
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 663	45 MPH	MINOR ARTERIAL
FM 875	45 MPH	MAJOR COLLECTOR
US 287 EB FR	40 MPH	PRINCIPAL ARTERIAL
LOCAL STREETS	30 MPH	LOCAL

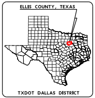
TXDOT RDM (2024) CHAPTER 4 BASIC DESIGN CRITERIA
(LEVEL TERRAIN)

INDEX OF SHEETS

ROLL 1 OF 4 PLAN AND PROFILE VIEW STA 13+09.02 TO STA 80+00
ROLL 2 OF 4 PLAN AND PROFILE VIEW STA 80+00 TO STA 150+00
ROLL 3 OF 4 PLAN AND PROFILE VIEW STA 150+00 TO STA 196+90.07
ROLL 4 OF 4 SUPPLEMENTAL SIDE STREET PROFILES

ROLL 1 OF 4


END PROJECT
FM 663 STA. 196+90.07
MATCH EXIST.
BEGIN PROJECT
FM 663 STA. 13+09.02
MATCH EXIST.
DALLAS COUNTY
JOHNSON COUNTY
HILL COUNTY
NAVARRO COUNTY
Red Oak
Ferris
MIDLOTHIAN
FM 663
FM 875
Palmer
Ike
Waxahachie
Crisp
Ennis
Maypearl
Bardwell
Forreston
Avalon
Rankin
Milford


ELLIS COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

LOCATION MAP
N.T.S.

LEGEND

- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING LANDSCAPE EASEMENT BY OTHERS
- CENTERLINE
- PARCEL LINE
- CITY/COUNTY BOUNDARY LINE
- PROPOSED DRAINAGE STRUCTURE
- DIRECTION OF FLOW
- G — EXISTING GAS LINE
- C — EXISTING TELEPHONE/CABLE/FIBER LINE
- E — EXISTING ELECTRIC LINE
- PL — EXISTING PETROLEUM LINE
- WW — EXISTING SANITARY SEWER LINE
- SD — EXISTING STORM DRAIN LINE
- W — EXISTING WATER LINE
- OH — EXISTING OH ELECTRIC LINE
- x — LEVEL B - SUE
- ☒ — LEVEL C - SUE
- (x) — LEVEL D - SUE
- 🟨 PROPOSED CONCRETE PAVEMENT
- 🟪 PROPOSED DRIVEWAY
- PROPOSED SIDEWALK/SHARED USE PATH
- 🟧 ADJACENT PROJECT - BY OTHERS
- 🟩 PROPOSED RAISED MEDIAN
- ← PROPOSED LANES
- (#) PARCEL IDENTIFYING NUMBER
- PROPOSED RETAINING WALL
- CURB WALL
- METAL BEAM GUARD FENCE (MBGF)
- POTENTIAL DISPLACEMENT
- PROPOSED RIP RAP
- EXISTING TRAFFIC SIGNAL

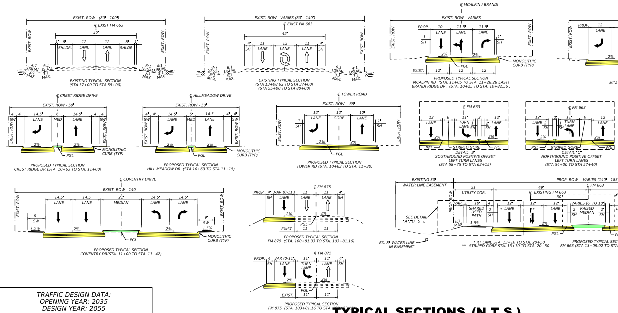
PRELIMINARY
FOR INTERIM REVIEW ONLY
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL. THEY ARE NOT INTENDED FOR PERMITTING,BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NAME	P.E. NO.	DATE
RANDY L GROS, PE	134559	4/28/2025

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

GARVER
3000 INTERNET BLVD.
SUITE 400
FRISCO, TX 75034

FIRM REGISTRATION NO. 5713

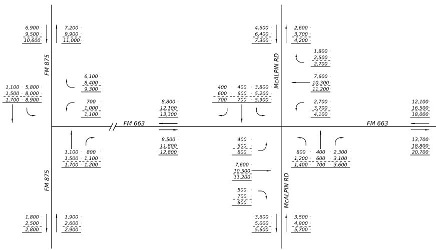

EXIST. ROW - (80' - 100')
℄ EXIST FM 663
42'
1' 8' 12' 12' 8' 1'
SHLDR. LANE LANE SHLDR.
EXIST. ROW
4:1 USUAL 3:1 MAX.
6:1 USUAL 3:1 MAX.
EXISTING TYPICAL SECTION
(STA 37+00 TO STA 55+00)
EXIST. ROW - VARIES (80' - 140')
℄ EXIST FM 663
42'
4' 11' 12' 11' 4'
SH LANE LANE LANE SH
EXISTING TYPICAL SECTION
(STA 13+08.62 TO STA 37+00)
(STA 55+00 TO STA 80+00)
℄ MCALPIN / BRANDI
EXIST. ROW - VARIES
PROP. 10' 11.5' 11.5'
1' SH LANE LANE LANE 1' SH
2% 2%
PGL
MONOLITHIC CURB (TYP)
EXIST. 12' 12' 12'
PROPOSED TYPICAL SECTION
MCALPIN RD (STA. 11+05 TO STA. 11+28.28 EAST)
BRANDI RIDGE DR. (STA. 10+25 TO STA. 10+82.56)
PROP. 12' LANE
MCA
℄ CREST RIDGE DRIVE
EXIST. ROW - 50'
4' 4' 14.5' 6' 14.5' 4' 4'
SW LANE MED LANE SW
PGL
MONOLITHIC CURB (TYP)
PROPOSED TYPICAL SECTION
CREST RIDGE DR (STA. 10+63 TO STA. 11+00)
℄ HILLMEADOW DRIVE
EXIST. ROW - 50'
4' 4' 14.5' 5' 14.5' 4' 4'
SW LANE MED LANE SW
PGL
MONOLITHIC CURB (TYP)
PROPOSED TYPICAL SECTION
HILL MEADOW DR. (STA 10+63 TO STA 11+15)
℄ TOWER ROAD
EXIST. ROW - 65'
12' 12' 12'
1' SH LANE GORE LANE 1' SH
PGL
PROPOSED TYPICAL SECTION
TOWER RD (STA. 10+63 TO STA. 11+30)
℄ FM 663
12' 6' 11' 2' 12'
LANE TURN LANE 1' SH 2' SH LANE
PGL STRIPED GORE PGL
DETAIL "B"
SOUTHBOUND POSITIVE OFFSET
LEFT TURN LANES
(STA 58+75 TO STA 62+15)
℄ FM 663
12' 2' 11' 6' 12'
LANE 2' SH 1' SH TURN LANE LANE
PGL STRIPED GORE PGL
DETAIL "C"
NORTHBOUND POSITIVE OFFSET
LEFT TURN LANES
(STA 54+00 TO STA 57+40)
℄ COVENTRY DRIVE
EXIST. ROW - 140
14.5' 14.5' 21' 14.5' 14.5'
LANE LANE MEDIAN LANE LANE
9' SW 9' SW
1.5% 2% 2% 1.5%
PGL
MONOLITHIC CURB (TYP)
PROPOSED TYPICAL SECTION
COVENTRY DR(STA. 11+00 TO STA. 11+42)
℄ FM 875
PROP. 4' VAR (0-11') 11' 11' 4'
SH LANE LANE LANE SH
PGL
EXIST. 11' 11'
PROPOSED TYPICAL SECTION
FM 875 (STA. 100+81.33 TO STA. 103+81.16)
℄ FM 875
PROP. 4' VAR (0-11') 11' 11' 4'
SH LANE TURN LANE LANE SH
PGL
EXIST. 11' 11'
PROPOSED TYPICAL SECTION
FM 875 (STA. 103+81.16 TO STA.
EXISTING 30' WATER LINE EASEMENT
PROP. ROW - VARIES (140' - 183
21' UTILITY COR.
49'
℄ EXISTING FM 663
30'
℄ FM 663
PROP. ROW
VAR. 2' 10' 4'
SHARED USED PATH
2' SH
12' * LANE
12' **
12' LANE
VARIES (6' TO 18')
2' SH RAISED MEDIAN 2' SH
4:1 MAX.
1.5%
2%
PGL
SEE DETAIL "A","D" & "E"
EX. 8" WATER LINE IN EASEMENT
* RT LANE STA. 13+10 TO STA. 20+50
** STRIPED GORE STA. 13+10 TO STA. 20+50
PROPOSED TYPICAL SEC
FM 663 (STA 13+09.02 TO STA

TYPICAL SECTIONS (N.T.S.)

TRAFFIC DESIGN DATA:
OPENING YEAR: 2035
DESIGN YEAR: 2055
PAVEMENT DESIGN YEAR: 2065

LEGEND:
xxxx 2035 AVERAGE DAILY TRAFFIC VOLUMES
xxxx 2055 AVERAGE DAILY TRAFFIC VOLUMES
xxxx 2065 AVERAGE DAILY TRAFFIC VOLUMES

NOTE:
SOURCE OF DATA: TXDOT, TRANSPORTATION PROGRAMMING AND PLANNING DIVISION MEMORANDUM, MAY 26, 2022.


FM 875
FM 663
McALPIN RD
FM 875
McALPIN RD
FM 663
6,900 9,500 10,600
7,200 9,900 11,000
6,100 8,400 9,300
1,100 1,500 1,700
5,800 8,000 8,900
700 1,000 1,100
8,800 12,100 13,300
8,500 11,800 12,800
1,100 1,500 1,700
800 1,100 1,200
1,800 2,500 2,800
1,900 2,600 2,900
4,600 6,400 7,300
2,600 3,700 4,200
1,800 2,500 2,700
7,600 10,300 11,200
400 600 700
400 600 700
3,800 5,200 5,900
2,700 3,700 4,100
12,100 16,500 18,000
400 600 800
7,600 10,500 11,200
500 700 800
800 1,200 1,400
400 600 700
2,300 3,100 3,600
13,700 18,800 20,700
3,600 5,000 5,600
3,500 4,900 5,700

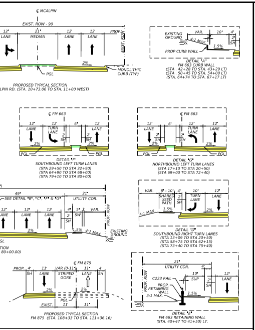
PROPERTY OWNERS

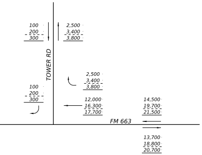
PARCEL NO.	OWNER	PROPERTY IMPACT
1	SCF RC FUNDING IV LLC (195945)	
2	SCF RC FUNDING IV LLC (195945)	
3	MADDOX CHRISTY M & DONNIE R (146787)	
4	PEARCE PATRICK M & ROSEMARY (151278)	
5	CAPSTONE LAND INTERESTS LLC (165546)	
6	MCMAHON THOMAS E & LISA (130054)	
7	RIVERA JOSHUA D & LAVAN ANGEL (167319)	
8	MC CARTY JAMES R & MARY J (41312)	
9	CONN TIMOTHY & MELANIE (161525)	
10	ENGLISH MARTINA (202557)	
11	PADUCH BRENDA E (148191)	
12	KLOFANDA ANDRE & JAMIE A (165177)	
13	HARRIS JOHN D (163308)	
14	MYERS KAYLA (136665)	
15	RAMIREZ SONYA M & JESUS M (168741)	
16	COVENTRY CROSSING HOMEOWNERS ASSOCIATION INC (149843)	
17	WISE WESLEY A & LYNLEE D (119731)	
18	CARPENTER MELISSA L B & ROBERT (176051)	
19	COVENTRY CROSSING HOMEOWNERS ASSOCIATION INC (149843)	
20	JENNINGS NINA (199066)	
21	SMITH MICKEY (50213)	
22	JOHNSON CHRISTOPHER B (183350)	
23	BARMEDA HIREN (174420)	
24	REED YOULANDA (185866)	
25	ANDERS LASHIEKA S (175165)	
26	HAMILTON DWIGHT DEMOUNT & MONALISA (172897)	
27	IRELAND ANTHONY & TERESA (193700)	
28	FASIPE LACHANDA R & KEHINDE O (191546)	
29	RS RENTAL III-A LLC (197457)	
30	BROWN SCOTT A & STACY D (208699)	
31	HAMMONDS DANIEL W & ANNA M (152743)	
32	PATTON JEFFREY L (210385)	
33	RUSH CREEK BAPTIST CHURCH (208586)	
34	ABALOS FRANK (20282)	
35	HUDSON CHARLES E (28993)	
36	FEARIS CYNTHIA E (193643)	

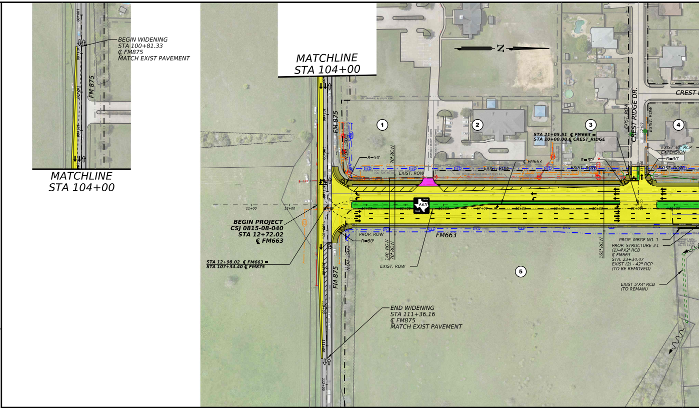
PROPERTY OWNERS

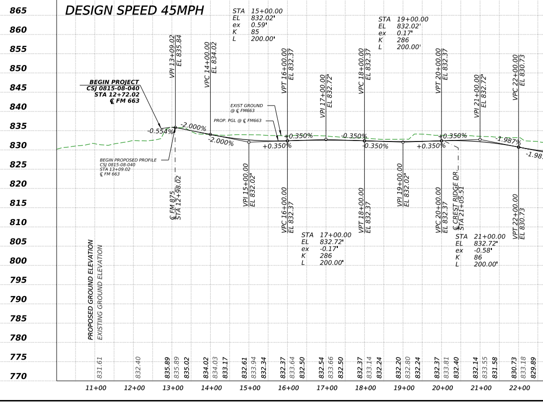
PARCEL NO.	OWNER	PROPERTY IMPACT
37	BROWN ALVIN C & LAURA B (72870)	
38	HALL ARTHUR BAER (66826)	
39	MOORHEAD HEATHER SUNSHINE & JEREMY RYAN (120105)	
40	NAHATIS CHARLES G ETAL (213861)	
41	STINSON TESSA & CASS STINSON (174277)	
42	BOYD STEVEN L & PAULA A (124782)	
43	FOGLE JAY & DENISE (92843)	
44	KUNSMAN JAMES S & MONICA L (142821)	
45	PFLEGER ROBERT (25598)	
46	CLARK CHRISTOPHER & KAYLA (180407)	
47	SMITH JAMES & ELLEN (93865)	
48	HEGER ELAINE G (198822)	
49	MCLEMORE MARCUS & MARCIA (136330)	
50	KRAUSE DEREK R & DAYANNE F (182378)	
51	HORTON BILLY LYNN SR & ELIZABETH KATHERINE HORTON (172175)	
52	HARDING RANDY & KYRA B (21821)	
53	HAPPEL MICHAEL E & CASEY L (128641)	
54	SILKEN INC (94531)	
55	MIDLOTHIAN ISD (33349)	
56	MY GARAGE MIDLOTHIAN LLC (186328)	
57	MY GARAGE MIDLOTHIAN LAND LLC (216868)	
58	MY GARAGE MIDLOTHIAN LAND LLC (216868)	
59	LIBERTY BAPTIST CHURCH OF (67243)	
60	BUCKNAM STEPHANIE (170273)	
61	THOMAS TRAIL HOMEOWNERS ASSOCIATION INC (171749)	
62	QUIGLEY SUSAN R (140591)	
63	ISAACSON DALLIN (183289)	
64	LEE-COLEMAN ANNETTE & EDDIE LEE COLEMAN (195913)	
65	TERAN JUAN P & SOTO NAOMI (176320)	
66	CABALLERO NANCY & LUIS (178017)	
67	GUINN ANTHONY W & SHERRY D CALHOUN (176970)	
68	BERMUDEZ JOSE K (103834)	
69	WILLIAMS MAJOR H (184110)	
70	SARTAIN BRADLEY & KARA (155812)	

PARCEL OWNER INFORMATION TABLE


℄ MCALPIN
EXIST. ROW - 90
LANE
MEDIAN
LANE
LANE
PROP.
EXIST. ROW
2%
PGL
MONOLITHIC CURB (TYP)
PROPOSED TYPICAL SECTION
LPIN RD. (STA. 10+73.06 TO STA. 11+00 WEST)
EXISTING GROUND
VAR.
4:1 MAX.
1.5%
PROP CURB WALL
DETAIL "A"
FM 663 CURB WALL
(STA . 42+28 TO STA. 43+29 LT)
(STA . 50+45 TO STA. 54+00 LT)
(STA. 64+74 TO STA. 67+17 LT)
℄ FM 663
LANE
TURN LANE
SH
PGL
DETAIL "F"
SOUTHBOUND LEFT TURN LANES
(STA 29+50 TO STA 32+90)
(STA 64+90 TO STA 68+00)
(STA 79+10 TO STA 80+00)
DETAIL "G"
NORTHBOUND LEFT TURN LANES
(STA 17+10 TO STA 20+50)
(STA 69+00 TO STA 72+40)
SEE DETAIL "B", "F", "G"
UTILITY COR.
PROP. ROW
EXISTING GROUND
4:1 MAX
SW
SHARED USED PATH
TURN LANE
DETAIL "D"
SOUTHBOUND RIGHT TURN LANES
(STA 13+09 TO STA 20+50)
(STA 58+75 TO STA 62+15)
(STA 73+40 TO STA 75+40)
℄ FM 875
PROP.
STRIPED GORE
EXIST.
PROPOSED TYPICAL SECTION
FM 875 (STA. 108+33 TO STA. 111+36.16)
UTILITY COR.
C223 RAIL
SUP
PROP. RETAINING WALL
3:1 MAX.
PROP. ROW
DETAIL "E"
FM 663 RETAINING WALL
(STA. 40+47 TO 41+50) LT.

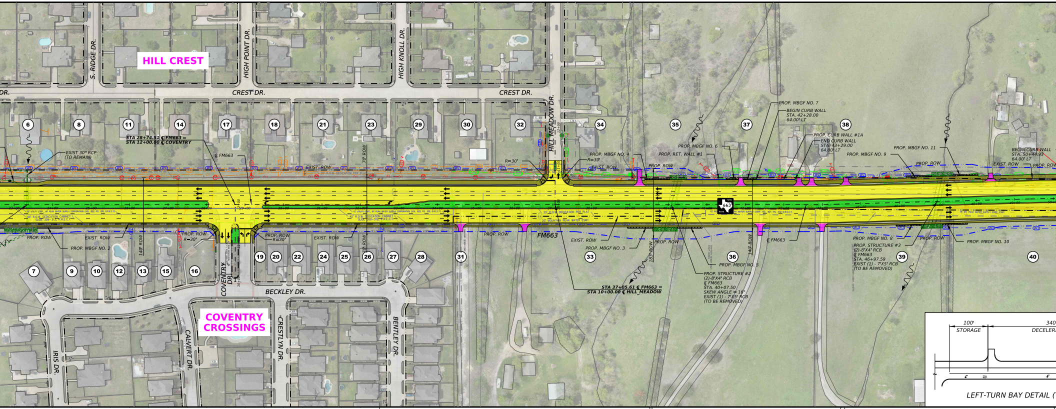

100
200
300
2,500
3,400
3,800
TOWER RD
2,500
3,400
3,800
100
200
300
12,000
16,300
17,700
14,500
19,700
21,500
FM 663
13,700
18,800
20,700


BEGIN WIDENING
STA 100+81.33
℄ FM875
MATCH EXIST PAVEMENT
FM 875
MATCHLINE
STA 104+00
MATCHLINE
STA 104+00
N
CREST RIDGE DR.
CREST
1
2
3
4
5
STA 21+05.51 ℄ FM663 =
STA 10+00.00 ℄ CREST RIDGE
EXIST 30" RCP EXTENSION
R=30'
R=50'
70' ROW
EXIST. ROW
℄ FM663
BEGIN PROJECT
CSJ 0815-08-040
STA 12+72.02
℄ FM663
STA 12+98.02 ℄ FM663 =
STA 107+34.40 ℄ FM875
FM663
PROP. ROW
140' ROW
70' ROW
165' ROW
PROP. MBGF NO. 1
PROP. STRUCTURE #1
(1)-4'X2' RCB
℄ FM663
STA. 23+34.47
EXIST (2) - 42" RCP
(TO BE REMOVED)
EXIST 5'X4' RCB
(TO REMAIN)
END WIDENING
STA 111+36.16
℄ FM875
MATCH EXIST PAVEMENT



SCHEMATIC GENERAL NOTES

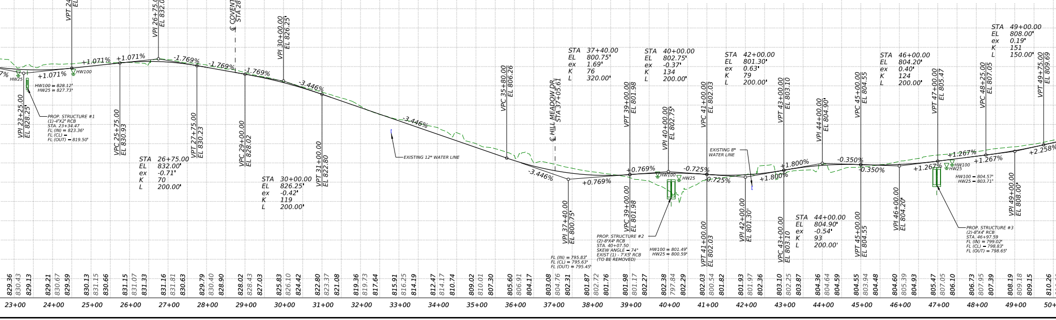
1. EXISTING ROW FOR FM 663 IS APPARENT ROW PROVIDED BY ELLIS COUNTY APPRAISAL DIST, NOT PER DEED RESEARCH.
2. AERIAL FLIGHT AND TOPOGRAPHICAL DATE - MARCH 2024.
3. TRAFFIC APPROVED BY TXDOT DALLAS DISTRICT AND REVIEWED BY TP&P ON 06-21-2024.
4. ALL CURBS ARE TYPE II (UNLESS NOTED OTHERWISE)
5. CONVENTIONAL ROADWAY SIGNAGES (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT.
7. THE NATIONAL FLOOD HAZARD LAYER (NFHL) WAS CHECKED AND ALL THE CROSSINGS WERE FOUND TO BE FEMA ZONE X. THE NFHL DATA INCORPORATES ALL FLOOD INSURANCE RATE MAP(FIRM) DATABASES PUBLISHED BY THE FEMA, AND ANY LETTERS OF MAP REVISION (LOMR) THAT HAVE BEEN ISSUED AGAINST THOSE DATABASES SINCE THEIR PUBLICATION DATE. IT IS UPDATED ON A MONTHLY BASIS. THE FIRM DATABASE IS THE DIGITAL, GEOSPATIAL VERSION OF THE FLOODHAZARD INFORMATION SHOWN ON THE PUBLISHED PAPER FIRMS.
8. PROVIDE MEDIAN OPENINGS AT CROSS-STREETS INTERSECTIONS. DETERMINE REMAINING MEDIAN CUTS, PREFERABLY VIA CITY COUNCIL ACTION. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
9. DESIGN IS SUBJECT TO CHANGE.


HILL CREST
S. RIDGE DR.
HIGH POINT DR.
HIGH KNOLL DR.
CREST DR.
CREST DR.
HILL MEADOW DR.
6
8
11
14
17
18
21
23
29
30
32
34
35
37
38
7
9
10
12
13
15
16
19
20
22
24
25
26
27
28
31
33
36
39
40
STA 28+74.51 ℄ FM663 =
STA 12+00.00 ℄ COVENTRY
EXIST 30" RCP
(TO REMAIN)
℄ FM663
EXIST. ROW
R=30'
70' ROW
PROP. MBGF NO. 4
R=30'
EXIST. ROW
PROP. RET. WALL #1
PROP. ROW
PROP. MBGF NO. 6
PROP. MBGF NO. 7
BEGIN CURB WALL
STA. 42+28.00
64.00' LT
PROP. CURB WALL #1A
END CURB WALL
STA. 43+29.00
64.00' LT
PROP. MBGF NO. 9
PROP. MBGF NO. 11
PROP. ROW
EXIST. ROW
BEGIN CURB WALL
STA. 50+44.93
64.00' LT
PROP. ROW
663
PROP. ROW
EXIST. ROW
PROP. MBGF NO. 2
140' ROW
PROP. ROW
R=30'
PROP. ROW
R=30'
EXIST. ROW
70' ROW
COVENTRY DR.
PROP. ROW
FM663
EXIST. ROW
PROP. MBGF NO. 3
183' ROW
PROP. ROW
140' ROW
℄ FM663
PROP. MBGF NO. 5
PROP. STRUCTURE #2
(2)-8'X4' RCB
℄ FM663
STA. 40+07.50
SKEW ANGLE = 16°
EXIST (1) - 7'X5' RCB
(TO BE REMOVED)
STA 37+05.61 ℄ FM663 =
STA 10+00.00 ℄ HILL_MEADOW
PROP. MBGF NO. 8
PROP. STRUCTURE #3
(2)-8'X4' RCB
℄ FM663
STA. 46+97.59
EXIST (1) - 7'X5' RCB
(TO BE REMOVED)
PROP. ROW
PROP. MBGF NO. 10
BECKLEY DR.
COVENTRY CROSSINGS
CRESTLYN DR.
BENTLEY DR.
CALVERT DR.
IRIS DR.
100'
STORAGE
340
DECELERA
LEFT-TURN BAY DETAIL (

CURVE DATA							
CURVE NO.	P.I. STA.	DELTA	T	L	R	P.C. STA.	P.T. STA.
FM 663 CURVE 1	43+51.56	01°33'11.24" (LT)	40.66	81.32	3000.00'	43+51.56	44+32.89
FM 663 CURVE 2	49+92.73	01°59'39.24" (RT)	52.21	104.42	3000.00'	49+40.52	50+44.93
FM 663 CURVE 3	55+61.38	02°20'02.00" (RT)	61.11'	122.20'	3000.00'	55+00.27	56+22.47
FM 663 CURVE 4	61+57.84	01°58'21.00" (LT)	51.65'	103.28'	3000.00'	61+06.20	62+09.48
FM 663 CURVE 5	70+79.76	01°28'44.47" (LT)	25.82'	51.63'	2000.00'	70+53.95	71+05.57
FM 663 CURVE 6	71+31.39	01°28'44.47" (RT)	25.82'	51.63'	2000.00'	71+05.57	71+57.20

SUPERELEVATION TABLE			
NB STATION	SUPERELEVATION e%	SB STATION	SUPERELEVATION e%
		13+00	-2.00%
		14+00	2.00%
		21+50	2.00%
		24+50	-2.00%
		33+00	-2.00%
		36+00	2.00%
		37+50	2.00%
		40+50	-2.00%
		54+50	-2.00%
		57+50	2.00%

METAL BEAM GUARD FENCE TABLE					
NO.	BEGIN STA.	BEGIN OFFSET	END STA.	END OFFSET	GUARDRAIL LENGTH
NO. 1	22+10	58.50' RT	22+75	58.50' RT	65.00'
NO. 2	23+60	58.50' RT	24+25	58.50' RT	65.00'
NO. 3	38+94	58.50' RT	39+59	58.50' RT	65.00'
NO. 4	39+39	63.50' LT	40+06	63.50' LT	60.00'
NO. 5	40+22	58.50' RT	40+86	58.50' RT	65.00'
NO. 6	41+50	63.50' LT	41+82	63.00' LT	32.00'
NO. 7	41+95	63.50' LT	42+28	63.00' LT	33.00'
NO. 8	45+88	58.50' RT	46+52	58.50' RT	65.00'
NO. 9	46+20	63.50' LT	46+86	63.50' LT	65.00'
NO.10	47+07	58.50' RT	47+72	58.50' RT	65.00'


STA 23+25.00
EL 828.25'
ex 0.96'
K 82
L 250.00'
VPT 24+50.00
EL 829.59
VPI 26+75.00
EL 832.00'
℄ COVENTRY DR
STA 28+74.51
VPI 30+00.00
EL 826.25'
+1.071%
+1.071%
+1.071%
-1.769%
-1.769%
-1.769%
-3.446%
-3.446%
-3.446%
HW25
HW100
HW100 = 828.12'
HW25 = 827.73'
PROP. STRUCTURE #1
(1)-4'X2' RCB
STA. 23+34.47
FL (IN) = 823.36'
FL (CL) =
FL (OUT) = 819.50'
VPI 23+25.00
EL 828.25'
VPC 25+75.00
EL 830.93
STA 26+75.00
EL 832.00'
ex -0.71'
K 70
L 200.00'
VPT 27+75.00
EL 830.23
VPC 29+00.00
EL 828.02
STA 30+00.00
EL 826.25'
ex -0.42'
K 119
L 200.00'
VPT 31+00.00
EL 822.80
EXISTING 12" WATER LINE
VPC 35+80.00
EL 806.26
℄ HILL MEADOW DR
STA 37+05.61
STA 37+40.00
EL 800.75'
ex 1.69'
K 76
L 320.00'
VPI 37+40.00
EL 800.75'
FL (IN) = 795.83'
FL (CL) = 795.63'
FL (OUT) = 795.45'
+0.769%
+0.769%
VPT 39+00.00
EL 801.98
VPC 39+00.00
EL 801.98
STA 40+00.00
EL 802.75'
ex -0.37'
K 134
L 200.00'
VPI 40+00.00
EL 802.75'
HW100
HW25
PROP. STRUCTURE #2
(2)-8'X4' RCB
STA. 40+07.50
SKEW ANGLE = 74°
EXIST (1) - 7'X5' RCB
(TO BE REMOVED)
HW100 = 801.49'
HW25 = 800.59'
-0.725%
-0.725%
VPC 41+00.00
EL 802.03
VPT 41+00.00
EL 802.03
EXISTING 8"
WATER LINE
STA 42+00.00
EL 801.30'
ex 0.63'
K 79
L 200.00'
VPI 42+00.00
EL 801.30'
+1.800%
+1.800%
VPT 43+00.00
EL 803.10
VPC 43+00.00
EL 803.10
VPI 44+00.00
EL 804.90'
STA 44+00.00
EL 804.90'
ex -0.54'
K 93
L 200.00'
-0.350%
-0.350%
VPC 45+00.00
EL 804.55
VPT 45+00.00
EL 804.55
STA 46+00.00
EL 804.20'
ex 0.40'
K 124
L 200.00'
VPI 46+00.00
EL 804.20'
+1.267%
+1.267%
+1.267%
VPT 47+00.00
EL 805.47
HW100
HW25
HW100 = 804.57'
HW25 = 803.71'
PROP. STRUCTURE #3
(2)-8'X4' RCB
STA. 46+97.59
FL (IN) = 799.02'
FL (CL) = 798.83'
FL (OUT) = 798.65'
VPC 48+25.00
EL 807.05
STA 49+00.00
EL 808.00'
ex 0.19'
K 151
L 150.00'
VPI 49+00.00
EL 808.00'
VPT 49+75.00
EL 809.69
+2.258%
829.36
830.43
829.13
829.21
830.67
829.59
830.13
831.15
830.66
831.15
831.07
831.33
831.16
831.81
830.63
829.79
830.40
828.90
828.02
828.43
827.03
825.83
826.10
824.42
822.80
823.37
821.08
819.36
819.73
817.64
815.91
816.25
814.19
812.47
814.17
810.74
809.02
810.01
807.30
805.60
806.91
804.17
803.08
804.76
802.31
801.87
802.72
801.76
801.98
801.17
802.27
802.38
797.84
802.29
802.03
800.54
801.82
801.93
801.97
802.36
803.10
802.25
803.87
804.36
804.64
804.59
804.55
803.94
804.48
804.60
805.39
804.93
805.47
807.05
806.10
806.73
807.95
807.39
808.19
809.18
809.15
810.26
23+00
24+00
25+00
26+00
27+00
28+00
29+00
30+00
31+00
32+00
33+00
34+00
35+00
36+00
37+00
38+00
39+00
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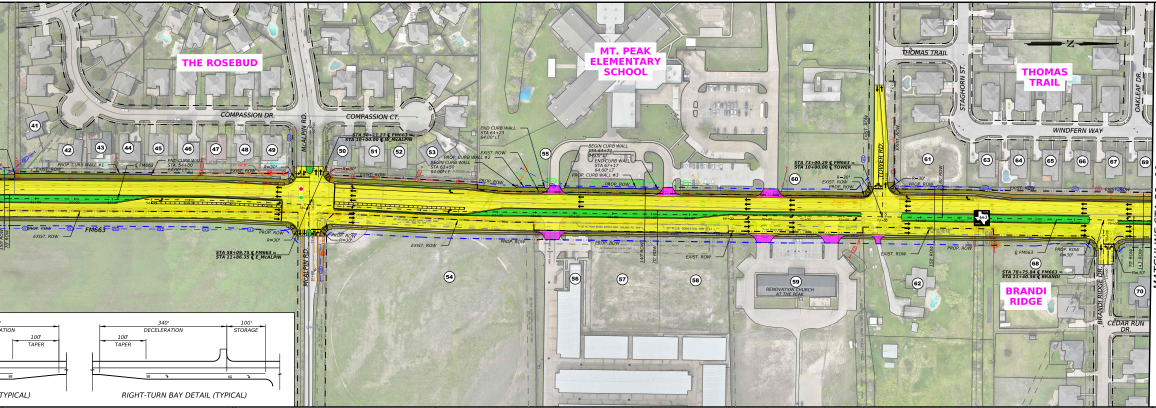
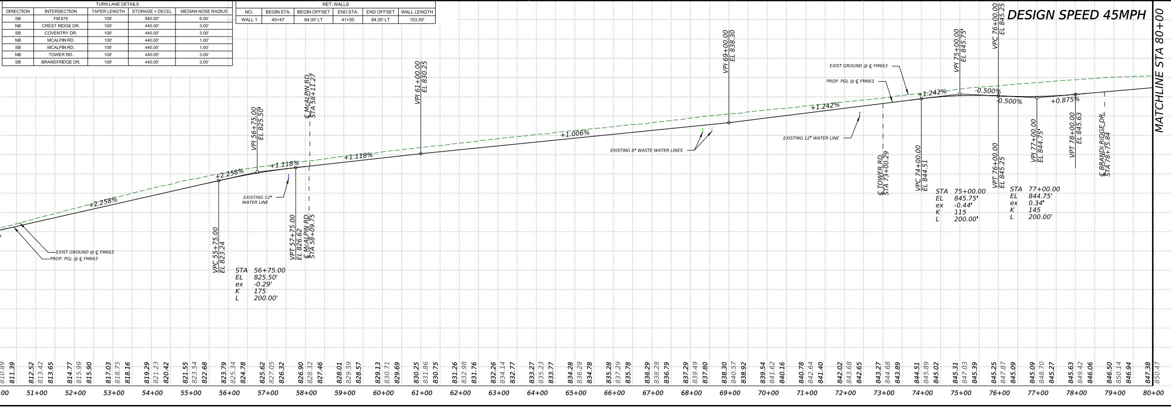
42+00
43+00
44+00
45+00
46+00
47+00
48+00
49+00
50+


THE ROSEBUD
MT. PEAK ELEMENTARY SCHOOL
THOMAS TRAIL
BRANDI RIDGE
COMPASSION DR.
COMPASSION CT.
McALPIN RD.
THOMAS TRAIL
STAGHORN ST.
OAKLEAF DR.
WINDFERN WAY
TOWER RD.
BRANDI RIDGE DR.
CEDAR RUN DR.
FM663
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
PROP. CURB WALL #1
℄ FM663
END CURB WALL STA. 54+00 64.00' LT
EXIST. ROW
PROP. ROW
R=30'
STA 58+11.27 ℄ FM663 = STA 10+00.00 ℄ W_McALPIN
STA 58+09.75 ℄ FM663 = STA 11+86.35 ℄ E_McALPIN
150' ROW
70' ROW
END CURB WALL STA 64+23 64.00' LT
PROP. CURB WALL #2
BEGIN CURB WALL STA 63+50 64.00' LT
BEGIN CURB WALL STA 64+73 64.00' LT
END CURB WALL STA 67+17 64.00' LT
PROP. CURB WALL #3
140' ROW
70' ROW
RENOVATION CHURCH AT THE PEAK
STA 73+00.29 ℄ FM663 = STA 10+00.00 ℄ TOWER
80' ROW
150' ROW
STA 78+75.84 ℄ FM663 = STA 11+40.56 ℄ BRANDI
70' ROW
143' ROW
663
N
340' DECELERATION
100' STORAGE
100' TAPER
ATION
(TYPICAL)
RIGHT-TURN BAY DETAIL (TYPICAL)

MATCHLINE STA 80+00


DESIGN SPEED 45MPH
EXIST GROUND @ ℄ FM663
PROP. PGL @ ℄ FM663
+2.258%
+1.118%
+1.006%
+1.242%
-0.500%
+0.875%
VPC 55+75.00 EL 823.24
VPI 56+75.00 EL 825.50'
VPT 57+75.00 EL 826.62
℄ McALPIN RD. STA 58+11.27
℄ McALPIN RD. STA 58+09.75
EXISTING 12" WATER LINE
VPI 61+00.00 EL 830.25
EXISTING 6" WASTE WATER LINES
VPI 69+00.00 EL 838.30
EXISTING 12" WATER LINE
℄ TOWER RD. STA 73+00.29
VPC 74+00.00 EL 844.51
VPI 75+00.00 EL 845.75'
VPC 76+00.00 EL 845.25
VPT 76+00.00 EL 845.25
VPI 77+00.00 EL 844.75'
VPT 78+00.00 EL 845.63
℄ BRANDI RIDGE DR. STA 78+75.84
STA 56+75.00
EL 825.50'
ex -0.29'
K 175
L 200.00'
STA 75+00.00
EL 845.75'
ex -0.44'
K 115
L 200.00'
STA 77+00.00
EL 844.75'
ex 0.34'
K 145
L 200.00'
810.89 811.39
812.52 813.42 813.65
814.77 815.99 815.90
817.03 818.75 818.16
819.29 821.23 820.42
821.55 823.54 822.68
823.79 825.34 824.78
825.62 827.05 826.32
826.90 828.32 827.46
828.01 829.59 828.57
829.13 830.71 829.69
830.25 831.86 830.75
831.26 832.98 831.76
832.26 834.14 832.77
833.27 835.23 833.77
834.28 836.28 834.78
835.28 837.29 835.78
836.29 838.28 836.79
837.29 839.49 837.80
838.30 840.57 838.92
839.54 841.62 840.16
840.78 842.64 841.40
842.02 843.68 842.65
843.27 844.68 843.89
844.51 845.89 845.02
845.31 847.03 845.39
845.25 847.87 845.09
845.09 848.70 845.27
845.63 849.42 846.06
846.50 850.14 846.94
847.38 850.47
00
51+00
52+00
53+00
54+00
55+00
56+00
57+00
58+00
59+00
60+00
61+00
62+00
63+00
64+00
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66+00
67+00
68+00
69+00
70+00
71+00
72+00
73+00
74+00
75+00
76+00
77+00
78+00
79+00
80+00

TURN LANE DETAILS				
DIRECTION	INTERSECTION	TAPER LENGTH	STORAGE + DECEL	MEDIAN NOSE RADIUS
SB	FM 875	100'	840.00'	6.00'
NB	CREST RIDGE DR.	100'	440.00'	3.00'
SB	COVENTRY DR.	100'	440.00'	3.00'
NB	MCALPIN RD.	100'	440.00'	1.00'
SB	MCALPIN RD.	100'	440.00'	1.00'
NB	TOWER RD.	100'	440.00'	3.00'
SB	BRANDI RIDGE DR.	100'	440.00'	3.00'

RET. WALLS					
NO.	BEGIN STA.	BEGIN OFFSET	END STA.	END OFFSET	WALL LENGTH
WALL 1	40+47	64.00' LT	41+50	64.00' LT	103.00'

MATCHLINE STA 80+00

865
860
855
850
845
840
835
830
825
820
815
810
805
800
795
790
785
780
775
770

Texas Department of Transportation

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DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

FM 663
60% DESIGN SCHEMATIC

ELLIS COUNTY, TEXAS
FM 663 FROM FM 875 TO US 287
CSJ: 0815-08-040
LENGTH: 3.48 MILES
DATED: APRIL 2025

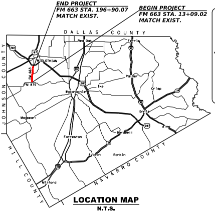
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 663	45 MPH	MINOR ARTERIAL
FM 875	45 MPH	MAJOR COLLECTOR
US 287 EB FR	40 MPH	PRINCIPAL ARTERIAL
LOCAL STREETS	30 MPH	LOCAL

TXDOT RDM (2024) CHAPTER 4 BASIC DESIGN CRITERIA
(LEVEL TERRAIN)

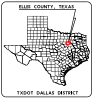
INDEX OF SHEETS

ROLL 1 OF 4 PLAN AND PROFILE VIEW STA 13+09.02 TO STA 80+00
ROLL 2 OF 4 PLAN AND PROFILE VIEW STA 80+00 TO STA 150+00
ROLL 3 OF 4 PLAN AND PROFILE VIEW STA 150+00 TO STA 196+90.07
ROLL 4 OF 4 SUPPLEMENTAL SIDE STREET PROFILES

ROLL 1 OF 4


END PROJECT
FM 663 STA. 196+90.07
MATCH EXIST.
BEGIN PROJECT
FM 663 STA. 13+09.02
MATCH EXIST.
DALLAS COUNTY
JOHNSON COUNTY
HILL COUNTY
NAVARRO COUNTY
Red Oak
Ferris
MIDLOTHIAN
FM 663
FM 875
Palmer
Ike
Crisp
Waxahachie
Ennis
Maypearl
Bardwell
Alma
Forreston
Avalon
Rankin
Milford
287
67
35E
45
34
35

LOCATION MAP
N.T.S.


ELLIS COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

LEGEND

EXISTING RIGHT OF WAY LINE	PROPOSED CONCRETE PAVEMENT
PROPOSED RIGHT OF WAY LINE	PROPOSED DRIVEWAY
EXISTING LANDSCAPE EASEMENT BY OTHERS	PROPOSED SIDEWALK/SHARED USE PATH
CENTERLINE	ADJACENT PROJECT - BY OTHERS
PARCEL LINE	PROPOSED RAISED MEDIAN
CITY/COUNTY BOUNDARY LINE	← PROPOSED LANES
PROPOSED DRAINAGE STRUCTURE	(#) PARCEL IDENTIFYING NUMBER
DIRECTION OF FLOW	PROPOSED RETAINING WALL
G EXISTING GAS LINE	CURB WALL
C EXISTING TELEPHONE/CABLE/FIBER LINE	METAL BEAM GUARD FENCE (MBGF)
E EXISTING ELECTRIC LINE	POTENTIAL DISPLACEMENT
PL EXISTING PETROLEUM LINE	PROPOSED RIP RAP
WW EXISTING SANITARY SEWER LINE	EXISTING TRAFFIC SIGNAL
SD EXISTING STORM DRAIN LINE	
W EXISTING WATER LINE	
OH EXISTING OH ELECTRIC LINE	
x LEVEL B - SUE	
☒ LEVEL C - SUE	
(x) LEVEL D - SUE	

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

NAME	P.E. NO.	DATE
RANDY L GROS, PE	134559	4/28/2025

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

GARVER
3000 INTERNET BLVD.
SUITE 400
FRISCO, TX 75034
FIRM REGISTRATION NO. 5713