Texas Department of Transportation
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AECOM
13355 NOEL ROAD
SUITE 400
DALLAS, TEXAS 75240
214-741-7777
TBPE NO. F-3580

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
JAMES K. SELMAN, P.E., DISTRICT ENGINEER
COLLIN COUNTY

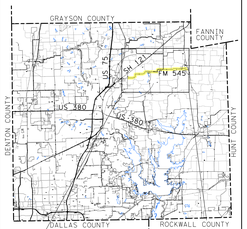
FM 545
PROJECT LIMIT: FM 2933 TO BS-78D
CONTROL: 1012-02-030
PROJECT LENGTH = 9.09 MI. (48,001.08 FT)
EXCEPTION = 1.69 MI. (8,939.97 FT)

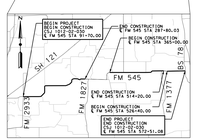
CROSS STREETS
ROLL 1 OF 8: FM 2933 & CR 415
ROLL 2 OF 8: CR 416
ROLL 3 OF 8: CR 472 & CR 1095
ROLL 4 OF 8: CR 475
ROLL 5 OF 8: FM 2862
ROLL 6 OF 8: CR 575 & FM 1377

FUNCTIONAL CLASS
FM 545: RURAL MAJOR COLLECTOR
FM CROSS STREETS: COLLECTOR MINOR
CR CROSS STREETS: LOCAL

CONSTR LENGTH = 7.4 MI. (39,061.11 FT)

DESIGN SPEED
FM 545: 50 MPH
FM 545: 45 MPH (STA 136+58 TO STA 159+89)
FM CROSS STREETS: 40 MPH
CR CROSS STREETS: 30 MPH





LOCATION MAP (NTS)

PREPARED BY AECOM TECHNICAL SERVICES INC. TBPE NUMBER 3580
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.
Prepared by or under the Direct Supervision of:
SRIKRISHNA PERAVALLI 84770 — BRAD HERNANDEZ 120029
NAME P.E. NUMBER — NAME P.E. NUMBER
0' 200' 400'
SCALE IN FEET
APPROVED APRIL 30, 2018
ROLL 5 OF 8
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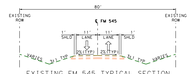
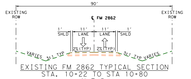
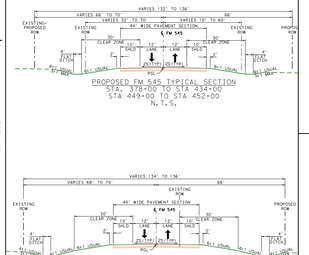


EXISTING FM 545 TYPICAL SECTION
STA. 378+00 TO STA 452+00
N.T.S.



EXISTING FM 2862 TYPICAL SECTION
STA. 10+22 TO STA 10+80
N.T.S.



LEGEND:

- PROPOSED ROW
- EXISTING FM 545 ROW
- EXISTING CROSS STREETS ROW
- DRAINAGE EASEMENT
- NTMWD MITIGATION BOUNDARY
- PROPERTY LINE
- PARCEL IDENTIFICATION NUMBER
- DIRECTION OF TRAFFIC
- FLOW LINES FOR STREAM/CREEK
- FEMA FLOOD PLAIN
- PAVEMENT EDGE
- METAL BEAM GUARD FENCE
- EXISTING DRAINAGE STRUCTURES
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED TRAVEL LANES
- PROPOSED SHOULDERS
- PROPOSED OVERLAY
- PROPOSED CROSS STREETS
- PROPOSED DRIVEWAYS
- BUILDING DISPLACEMENT
- ROADWAY PAVEMENT TO BE REMOVED

NOTES:

1. SCHEMATICS ARE BASED ON AERIAL AND DESIGN SURVEYS DATED DECEMBER 21, 2015 AND RECORD PLANS.
2. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR RAIL UNLESS OTHERWISE NOTED.
3. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS 48085C0215J, 48085C0216J, 48085C0195J.
4. OWNERSHIP AND PROPERTY LINE INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT, DENTON COUNTY, TX, 2015. PROPERTY LINE ARE SHOWN FOR INFORMATIONAL USE ONLY.
5. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM ORIGINAL AND RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
6. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE.
7. BUILDING DISPLACEMENTS ARE ESTIMATED AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
8. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE FINAL PHASE OF THE PROJECT.
9. RESIDENTIAL DRIVEWAY RADII ARE 10 FT. CROSS STREET DRIVEWAY RADII ARE 30 FT AND FUNCTIONAL AREA OF STREET (BELL) ARE OTHERWISE NOTED.
10. PIPE CROSSING UNDERNEATH DRIVEWAYS IS NOT SHOWN FOR CLARITY.
11. THE NORTH TEXAS MUNICIPAL WATER DISTRICT MITIGATION AREAS WERE DELINEATED BY ECOLOGY SOLUTIONS, INC. (ESI) IN NOVEMBER AND DECEMBER, 2006. THE MITIGATION AREAS SHOWN ARE APPROXIMATE AND FOR INFORMATIONAL USE ONLY.
12. FM 545 EXISTING RIGHT-OF-WAY SHOWN ON SCHEMATIC PROVIDED BY OTHERS, EXISTING CROSS STREET RIGHT-OF-WAY INFORMATION SHOWN TAKEN FROM COLLIN COUNTY APPRAISAL DISTRICT. ALL EXISTING RIGHT-OF-WAY TO BE FIELD VERIFIED DURING PS&E.

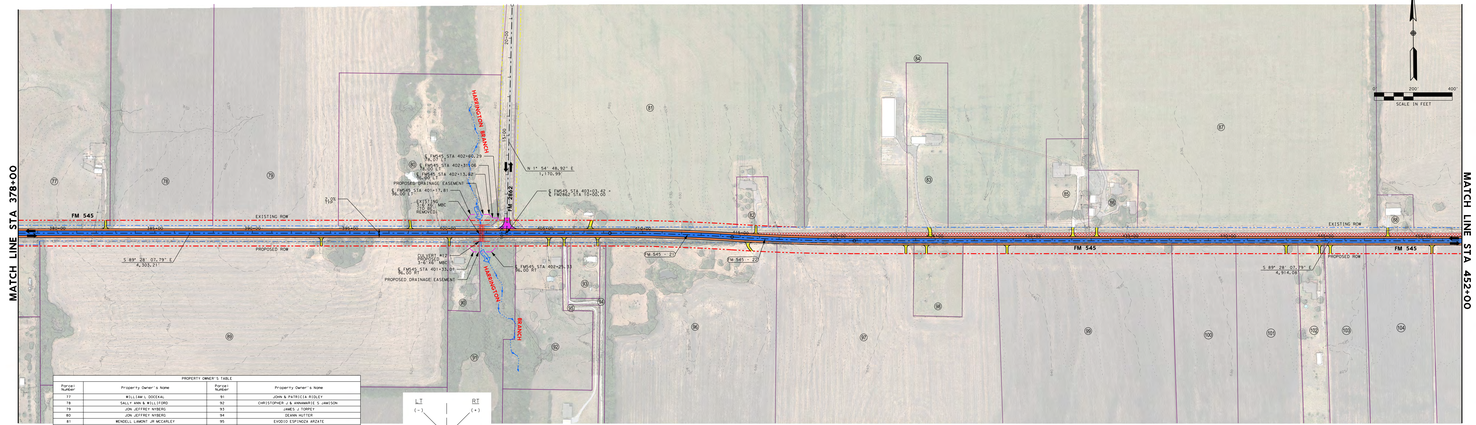
PROPERTY OWNER'S TABLE

Parcel Number	Property Owner's Name	Parcel Number	Property Owner's Name
71	WILLIAM L. DODSON	91	JOHN & PATRICIA RIDLEY
76	SALLY ANN & WILLIFORD	92	CHRISTOPHER J & AMMARRITE S. JAMESTON
79	JON JEFFREY WIBERG	93	JAMES J. TORPEY
80	JON JEFFREY WIBERG	94	DEANN HUTTER
81	MENDELL LAMONT JR MCCARLEY	95	SIDDIQI EDFINDER ARSATIE
82	MICHAEL & ANN MARIE MCCARLEY	96	SHA HOLDINGS LLC
83	MENDELL LAMONT JR MCCARLEY	97	SHA HOLDINGS LLC
84	MENDELL LAMONT JR MCCARLEY	98	MENDELL LAMONT JR MCCARLEY
85	MONTY M & BRENDA E MCCARLEY	99	JUSTIN RAY & KIMBERLEYER
86	MENDELL LAMONT JR MCCARLEY	100	LENDY M JR & LINDA F WARREN
87	MENDELL LAMONT JR MCCARLEY	101	LENDY M JR & LINDA F WARREN
88	RICKY CANTRELL	102	ANNIE M KING
89	SALLY ANN & WILLIFORD	103	GLEN HOBART MILLER
90	DONALD & RUBY SADLER	104	LENDY M JR & LINDA F WARREN

TRAFFIC DIAGRAM
N.T.S.

LEGEND
XXXX - 2018 AVERAGE DAILY TRAFFIC VOLUME
XXXX - 2038 AVERAGE DAILY TRAFFIC VOLUME
XXXX - 2048 AVERAGE DAILY TRAFFIC VOLUME
ROAD

SOURCE:
TEXAS DEPARTMENT OF TRANSPORTATION,
TRANSPORTATION PLANNING AND PLANNING DIVISION MEMORANDUM, DATED FEBRUARY 5, 2018
K-FACTOR = 0.09
DIRECTIONAL DISTRIBUTION PERCENTAGE = 62/38
PEAKING FACTOR = 1.0
DHV = 15

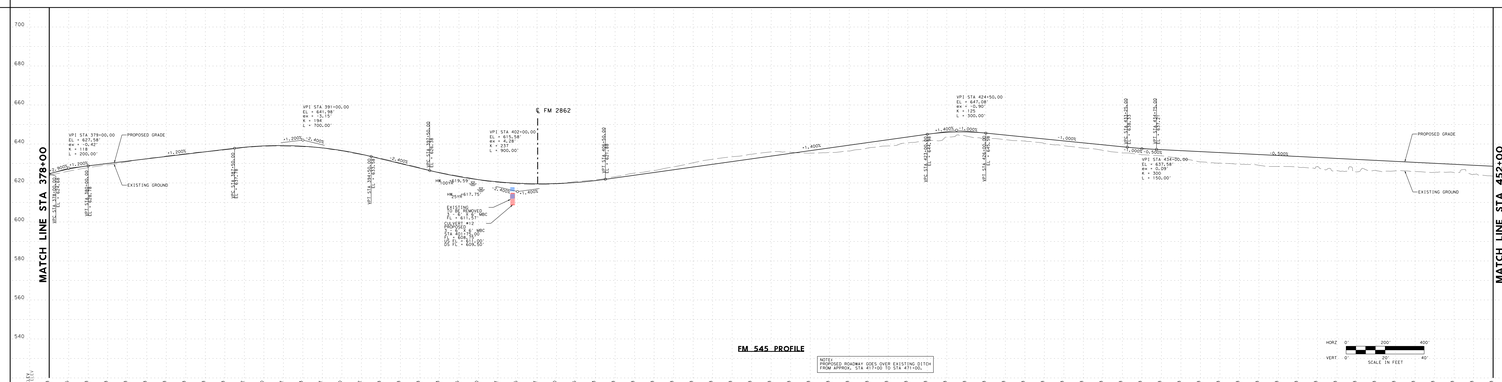


SUPERELEVATION TABLE

DESCRIPTION	ALIGNMENT	BEGIN TRANSITION	END TRANSITION	LENGTH
NORMAL CROWN	TW SHS	378+00.00	381+00.00	300.00

SUPERELEVATION SIGN DIAGRAM

CURVE DATA

FM 545 - EXISTING/PROPOSED CENTERLINE

CURVE	PI STATION	DELTA	EXTERNAL	MIDDLE ORDINATE	RADIUS	TANGENT	LENGTH	BEGIN CURVE STATION	END CURVE STATION	BACK TANGENT DIRECTION	AHEAD TANGENT DIRECTION
TWCA2-27	411+45.50	8° 00' 24.55"	4.51'	4.51'	10000.00'	419.48'	836.93'	407+26.02	415+62.95	S 89° 28' 15.19" E	S 89° 28' 15.19" E
TWCA1-28	446+50.00	8° 00' 24.55"	4.51'	4.51'	10000.00'	419.48'	836.93'	436+30.57	444+67.50	S 89° 28' 15.19" E	S 89° 28' 15.19" E