TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY

DESIGN SCHEMATIC

WILLIAM L. HALE, P.E.
DISTRICT ENGINEER

FM 546 (NEW ALIGNMENT)

CSJ: 1013-01-026

FROM: SH 5
TO: WEST OF CR 317

NET LENGTH OF PROJECT: 1.70 MILES

FUNCTIONAL CLASSIFICATION:

TxDOT - MINOR ARTERIAL
CITY OF McKINNEY - URBAN MAJOR ARTERIAL (MAD)
FM 546: 19,810 ADT (2010) / 35,780 ADT (2030)

DESIGN SPEED:
FM 546 = 45 MPH
SH 5 = 60 MPH *
AIRPORT ROAD = 45 MPH
COOKS ROAD = 35 MPH
U-TURN LANE = 15 MPH
* PER TEXAS TRANSPORTATION CODE, SECTION 545.355, 1995

LOCATION MAP

ROLL INDEX

ROLL 1: FM 546 NEW ALIGNMENT
BEGIN PROJECT STA 10+44.90 TO STA 55+00

ROLL 2: FM 546 NEW ALIGNMENT
STA 55+00 TO END PROJECT STA 99+79.77

ROLL 3: SH 5 PROPOSED IMPROVEMENTS PLAN AND CROSS STREETS PROFILES

PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-006981

NASER ABUSAADA, P.E., A.I.P.
SERIAL NO. 93200
AUGUST, 2011

BRAD HERNANDEZ, P.E.
SERIAL NO. 100078
AUGUST, 2011

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ROLL 2 OF 3

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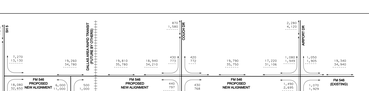
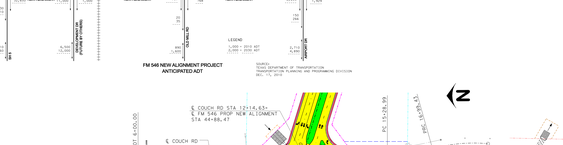
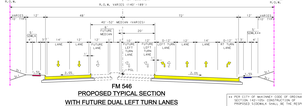
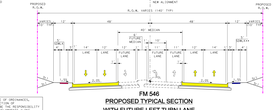






FM 546
PROPOSED TYPICAL SECTION
WITH FUTURE DUAL LEFT TURN LANES
AND RIGHT TURN LANE
STA 76+72.72 TO STA 99+86.31
N.T.S.

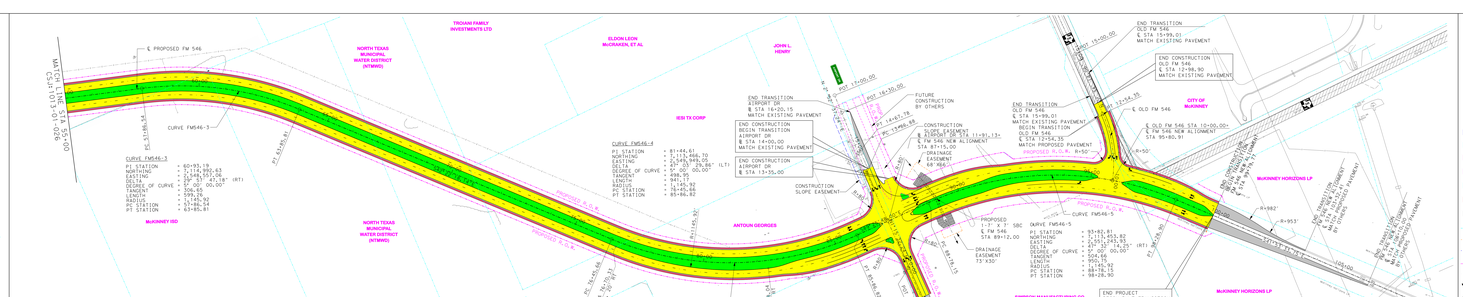


FM 546
PROPOSED TYPICAL SECTION
WITH FUTURE LEFT TURN LANE
STA 54+60.00 TO STA 76+72.72
STA 99+86.31 TO 99+79.77
N.T.S.

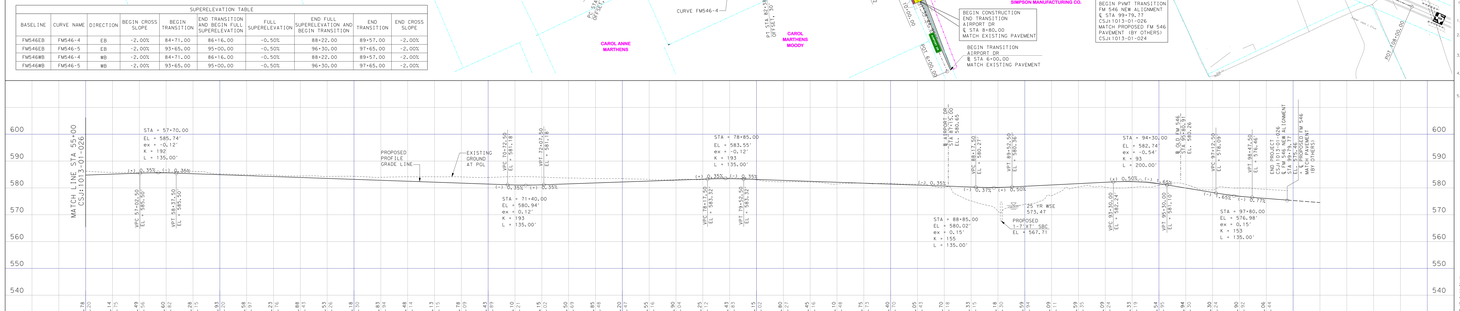
(1) SEE TEXT OF INCIDENCE FOR OPTIONAL PROPOSED CENTERLINE SHIFT TO THE NORTHEAST.

(2) SEE TEXT OF INCIDENCE FOR OPTIONAL PROPOSED CENTERLINE SHIFT TO THE SOUTHWEST.

(3) AT INTERSECTIONS, PROPOSED ROADWAY TO BE CONSTRUCTED 12' TO THE RIGHT OF AS DESIGNATED ABOVE, PROPOSED ROADWAY TO BE CONSTRUCTED 12' TO THE LEFT OF AS DESIGNATED ABOVE.



SUPERELEVATION TABLE									
BASELINE	CURVE NAME	DIRECTION	BEGIN CROSS SLOPE	BEGIN TRANSITION	END TRANSITION AND BEGIN FULL SUPERELEVATION	FULL SUPERELEVATION	END FULL SUPERELEVATION AND BEGIN TRANSITION	END TRANSITION	END CROSS SLOPE
FM546EB	FM546-4	EB	-2.00%	84+71.00	86+16.00	-6.50%	89+22.00	89+57.00	-2.00%
FM546EB	FM546-5	EB	-2.00%	93+65.00	95+00.00	-6.50%	96+30.00	97+65.00	-2.00%
FM546WB	FM546-4	WB	-2.00%	84+71.00	86+16.00	-6.50%	89+22.00	89+57.00	-2.00%
FM546WB	FM546-5	WB	-2.00%	93+65.00	95+00.00	-6.50%	96+30.00	97+65.00	-2.00%



NOTES:

1. PROPOSED PROFILE GENERALLY FOLLOWS EXISTING.
2. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING THE FINAL DESIGN PHASE.
3. ALL DIMENSIONS ARE FROM BACK OF CURB, UNLESS OTHERWISE NOTED.
4. CONTROL OF ACCESS WILL BE HANDLED IN ACCORDANCE WITH TxDOT ACCESS MANAGEMENT MANUAL.
5. SURVEY NOTES:
   DATE OF SURVEY: AUGUST 17, 2010
   ONLY VISIBLE UTILITIES AS OF AUGUST 17, 2010 WERE LOCATED.
   ALL POINTS WERE LOCATED USING THE WGS VRS NETWORK.
   ALL POINTS WERE CONVERTED TO SURFACE USING THE TXDOT COMBINED SURFACE WITH A SCALE FACTOR OF 1.00015271EL.
   CONTROLS:
   FM 546 COLLIN COUNTY
   PRIMARY CONTROL
   SAMPH 29232 08
   AUGUST 11, 2010
   HORZ. DATUM NAD-83 (CORS 2002)
   VERT. DATUM NAVD-88 (GEOID 2003)
   GRID, SYSTEM
   TEXAS STATE PLANE NAD-83 (CORS 2002
   ZONE: TEXAS NORTH CENTRAL (4202)
   UNITS: U.S. SURVEY FEET
   GEOID GEOID09
   PROJECT COMBINED SCALE FACTOR
   1.00015271EL (0.99984731SL)
   PT, NORTHING, EASTING, ELEV., DESCR.
   SURFACE COORDINATES
   1, 7118594.861,2544212.027,592.805,CP 1
   2, 7118047.423,2547458.336,593.656,CP 2
   3, 7117848.345,2550463.874,584.232,CP 3
   4, 7115059.861,2551507.404,584.688,CP 4
   5, 7111817.975,2551265.071,560.954,CP 5
   6, 7112350.337,2548233.36,536.095, CP 6
   7, 7110582.446,2547059.767,551.317,CP 7
   8, 7114876.011,2542748.736,570.296,CP 8

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LOCATION MAP

PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT
MILES
BEGIN PROJECT
CSJ: 1013-01-026
END PROJECT
CSJ:1013-01-026

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COLLIN
DATE: AUGUST, 2011
COUNTY:

DESIGN SCHEMATIC
FOR FM 546 (NEW ALIGNMENT)

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