TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

COLLIN COUNTY

DESIGN SCHEMATIC

WILLIAM L. HALE, P.E.
DISTRICT ENGINEER

FM 546 (NEW ALIGNMENT)

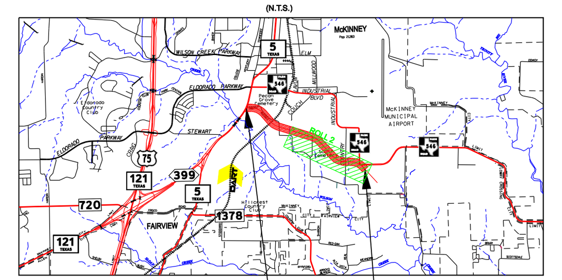
CSJ: 1013-01-026

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 (M6D)
FM 546: 19,810 ADT (2010) 35,780 ADT (2030)

DESIGN SPEED:
FM 546 = 45 MPH
SH 5 = 60 MPH *
AIRPORT ROAD = 45 MPH
COUCH ROAD = 35 MPH
U-TURN LANE = 15 MPH
* PER TXDOT PLANS DATED NOV. 10, 1955

LOCATION MAP
(N.T.S.)



PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT

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 100+04.77
ROLL 3: SH 5 PROPOSED IMPROVEMENTS PLAN
AND CROSS STREETS PROFILES

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

NASER ABUSAAD, P.E., AICP
SERIAL NO. 83200
NOVEMBER, 2011

BRAD HERNANDEZ, P.E.
SERIAL NO. 100079
NOVEMBER, 2011

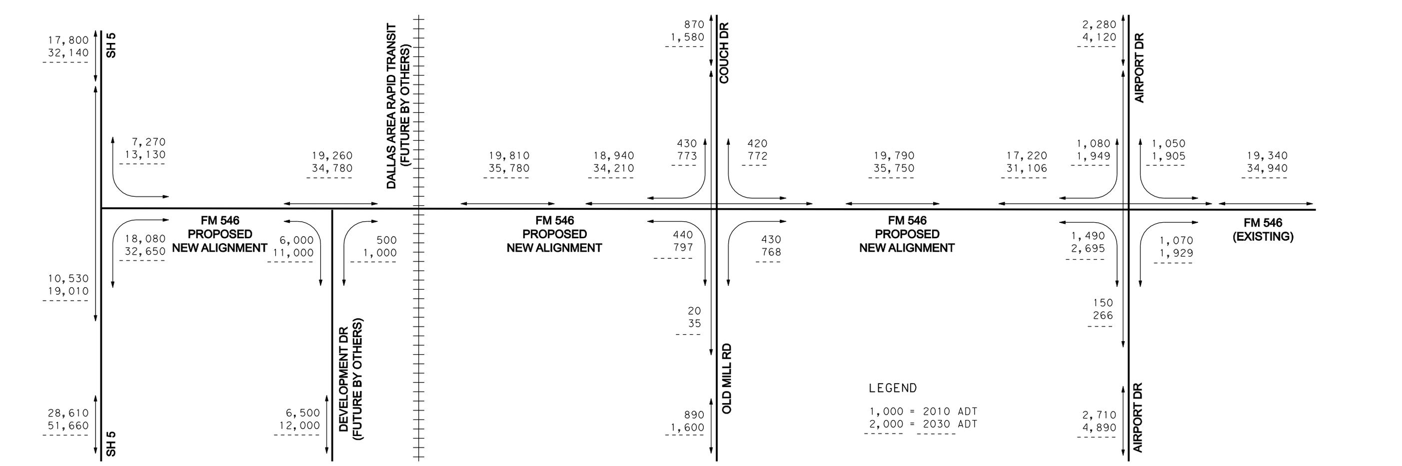
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PRELIMINARY REVIEW SUBMITTAL.
IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

ROLL 2 OF 3

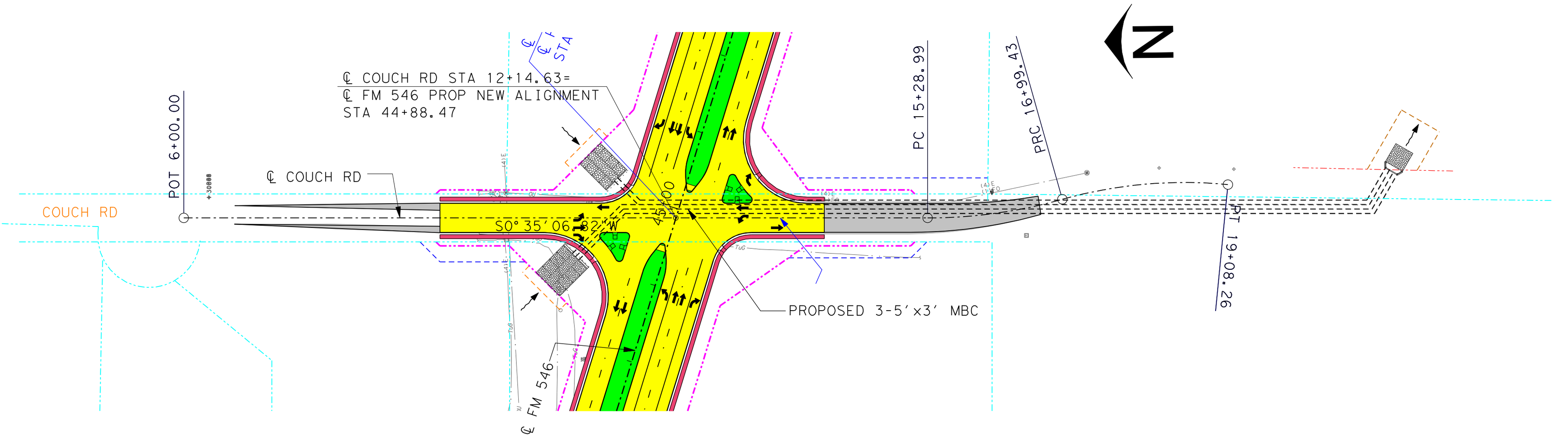
© 2011 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

COUNTY: COLLIN
DATE: NOVEMBER, 2011
DESIGN SCHEMATIC FOR FM 546 (NEW ALIGNMENT)
ROLL 2 OF 3

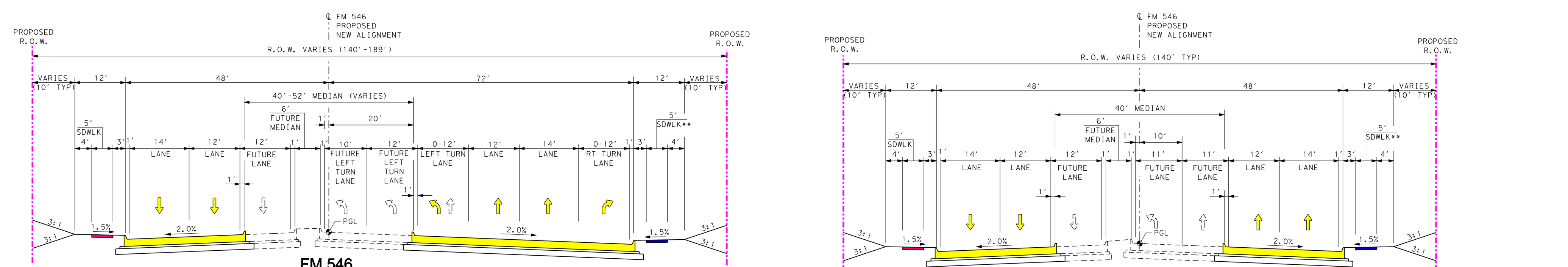
CIVIL ASSOCIATES, INC. 9330 LBJ Frwy, Ste. 1150 Dallas, Texas 75243 TBPE Firm Registration No. 6981



FM 546 NEW ALIGNMENT PROJECT
ANTICIPATED ADT



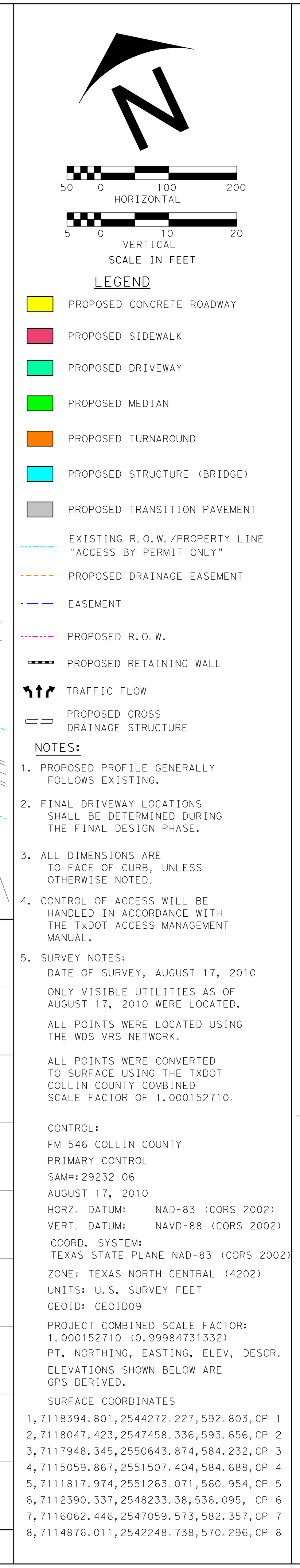
LAYOUT - PROPOSED 3-5'x3' MBC
FM 546 STA 45+03.00
N.T.S.



FM 546
PROPOSED TYPICAL SECTION
WITH FUTURE DUAL LEFT TURN LANES
AND RIGHT TURN LANE
N.T.S.

FM 546
PROPOSED TYPICAL SECTION
WITH FUTURE LEFT TURN LANE
N.T.S.

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	-0.50%	88+22.00	89+57.00	-2.00%
FM546EB	FM546-5	EB	-2.00%	93+65.00	95+00.00	-0.50%	96+30.00	97+65.00	-2.00%
FM546WB	FM546-4	WB	-2.00%	84+71.00	86+16.00	-0.50%	88+22.00	89+57.00	-2.00%
FM546WB	FM546-5	WB	-2.00%	93+65.00	95+00.00	-0.50%	96+30.00	97+65.00	-2.00%



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 (M6D)
FM 546: 19,810 ADT (2010) 35,780 ADT (2030)
DESIGN SPEED:
FM 546 = 45 MPH
SH 5 = 60 MPH *
AIRPORT ROAD = 45 MPH
COUCH ROAD = 35 MPH
U-TURN LANE = 15 MPH
* PER TXDOT PLANS DATED NOV. 10, 1955
LOCATION MAP
PROJECT LOCATION
COLLIN COUNTY
DALLAS DISTRICT
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 100+04.77
ROLL 3: SH 5 PROPOSED IMPROVEMENTS PLAN
AND CROSS STREETS PROFILES
PREPARED BY:
CIVIL ASSOCIATES, INC.
TBPE REGISTRATION NO. F-006981
NASER ABUSAAD, P.E., AICP
SERIAL NO. 83200
NOVEMBER, 2011
BRAD HERNANDEZ, P.E.
SERIAL NO. 100079
NOVEMBER, 2011
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PRELIMINARY REVIEW SUBMITTAL.
IT IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
ROLL 2 OF 3
© 2011 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED