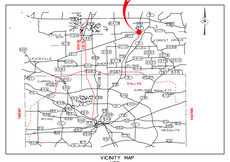
INTERCHANGE AT SH 121 AND US 75
COLLIN COUNTY, TEXAS
CSJ: 0364-04-040



VICINITY MAP
N.T.S.

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM HALE, P.E. - DISTRICT ENGINEER

NORTH TEXAS TOLLWAY AUTHORITY
JORGE FIGUEREDO - EXECUTIVE DIRECTOR

JUNE, 2008

SURVEY CONTROL POINTS

POINT NAME	NORTHING	EASTING	ELEVATION	STATION AND OFFSET (FEET)
ARS 75-01	7169051.7253	2534951.8059	651.210	75 & STA 104+00.00, 148.20 RT
ARS 121-01	7169051.3460	2534951.8460	651.210	121 & STA 104+00.00, 148.20 RT
ARS 121-02	7169051.3460	2532907.6421	675.280	121 & STA 121+00.00, 5149.82 RT
ARS 121-06	7167173.5364	2527389.2578	660.21	121 & STA 126+00.00, 95.88 RT
ARS 121-10	7169763.7120	2529836.2638	576.820	121 & STA 134+00.00, 109.05 LT

LEGEND

	EXISTING	PROPOSED
MAIN LANE		
RAMP		
FRONTAGE ROAD		
CROSS STREETS		
RIGHT-OF-WAY/PROPERTY LINES		
CONTROL-OF-ACCESS		
MAINLINE/FRONTAGE/RAMP TRAFFIC LANE DIRECTIONAL INDICATOR		
RETAINING WALLS	NOT SHOWN	
BRIDGES		
DIRECT CONNECTOR		

FUNCTIONAL CLASSIFICATION
URBAN FREEWAY

PROJECT LENGTH
SH 121 = 7.8 MILES
US 75 = 1.0 MILES
TOTAL = 5.7 MILES

DESIGN SPEEDS

MAIN LANES	70 MPH BASED ON URBAN INTERSTATE FREEWAY	
FRONTAGE ROADS	40 MPH	
DIRECT CONNECT RAMPS	50 MPH BASED ON MID RANGE	
ON/OFF RAMPS	50 MPH BASED ON MID RANGE	
LOOP RAMPS	25 MPH	
CROSS STREETS	45 MPH (30 MPH WHERE NOTED)	

TYPICAL SECTIONS
(A) 12' CROP
(B) 4' HMAC (TY B)
(C) 12' 2' FOR SIGR W/12' CONCRETE
(D) 14' CROP
(E) 10' CROP

PROPOSED ALIGNMENTS
MAIN LANES
FRONTAGE ROADS
ON/OFF RAMPS
DIRECT CONNECT RAMPS
CROSS STREETS

SCALE
PLAN: 1 INCH = 100 FEET
PROFILE: HORIZ 1 INCH = 100 FEET; VERT 1 INCH = 10 FEET

NOTES:
1. HORIZONTAL AND VERTICAL CONTROL BASED ON NAD 83 COORDINATES.
2. GANTRY LOCATIONS BASED ON TOLL TRAFFIC AND REVENUE STUDY BY R.L. BRADY & ASSOCIATES.
3. ALL STATIONS ARE REFERENCED TO SH 121 BASELINE UNLESS NOTED OTHERWISE.
4. COMPLETE REMOVAL OF EXISTING PAVEMENT AND STRUCTURES IS ESTIMATED WITHIN CONSTRUCTION LIMITS, EXCEPT WHERE SHOWN OTHERWISE.

INDEX OF ROLLS
ROLL 1 AND 2 = PLAN AND PROFILE SH 121 MAIN LANES
ROLL 3 AND 4 = PLAN AND PROFILE US 75 MAIN LANES
ROLL 5 AND 6 = PLAN AND PROFILE US 75 MAIN LANES
ROLL 6 AND 7 = PROFILES SH 121 FRONTAGE ROADS
ROLL 8 AND 9 = PROFILES US 75 FRONTAGE ROADS
ROLL 10 AND 11 = PROFILES

Texas Department of Transportation

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CONSULTANT	DATE	REVISION	APPROVED

NTTA
NORTH TEXAS TOLLWAY AUTHORITY

DESIGN
SCHEMATIC PROFILES
SH 121 FRONTAGE ROADS
COLLIN COUNTY, TEXAS

JACOBS
BRIDGEFARMER
SECTION 4

DESIGN	JK	CHK	MT JOHN	REVIEW	JLW	CHK	MT JOHN
CONTROL	JK	DATE	MT JOHN	SCALE	1" = 100'		

CONTRACT 02292-SH 121-04-PS PM ROLL 7 OF 11

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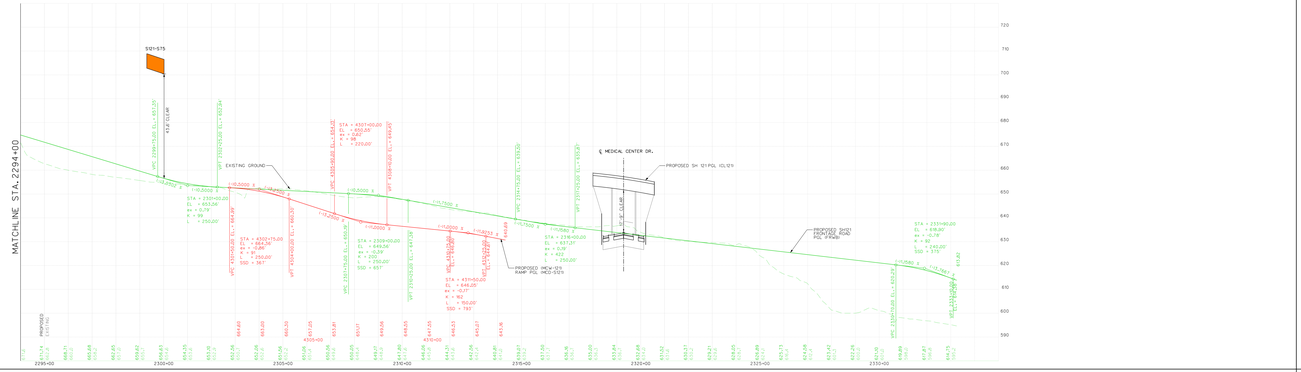
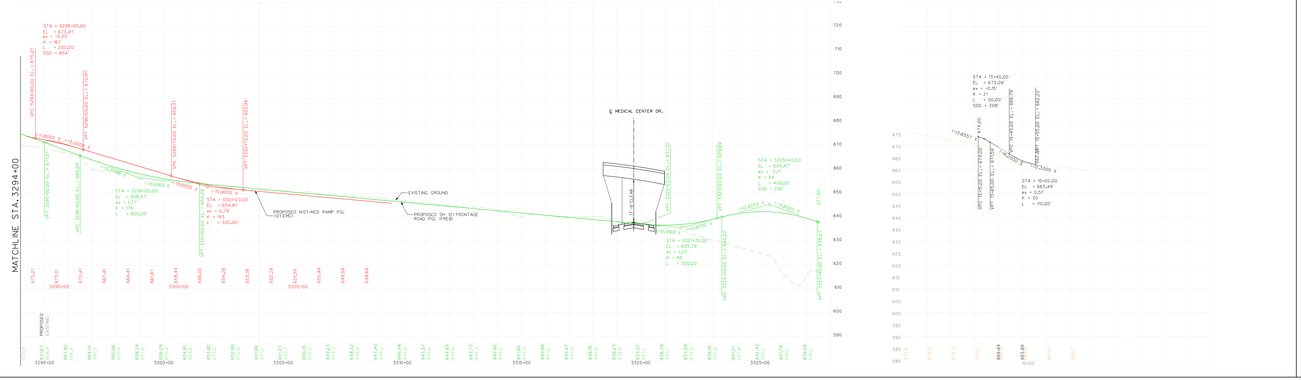
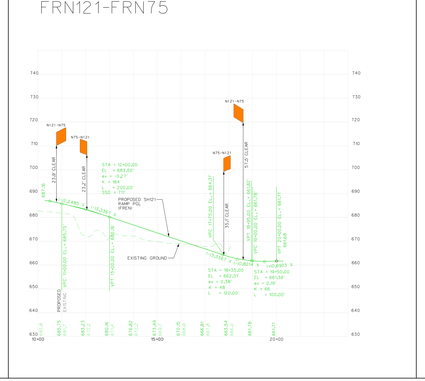
SH 121 FRONTAGE ROAD FR S121



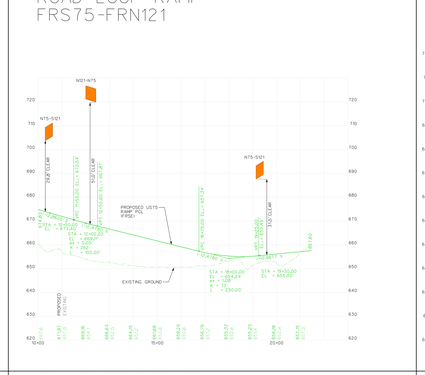
SH 121 FRONTAGE ROAD FR N121



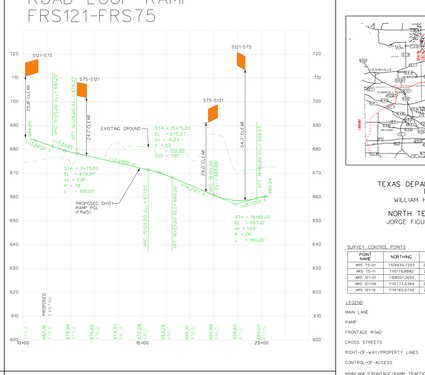
FRISCO ROAD



US 75 FRONTAGE ROAD LOOP RAMP FRS75-FRN121

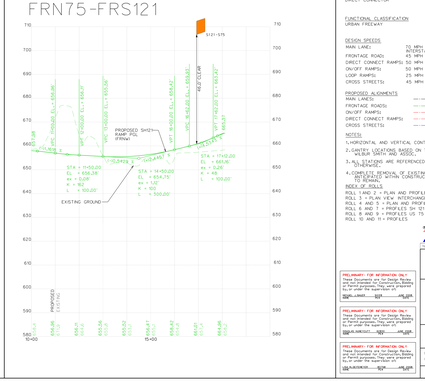


SH 121 FRONTAGE ROAD LOOP RAMP FRS121-FRS75



SH 121 FRONTAGE ROAD LOOP RAMP FRN121-FRN75

US 75 FRONTAGE ROAD LOOP RAMP FRN75-FRS121



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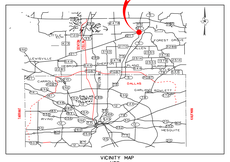

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