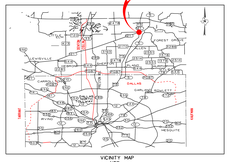
INTERCHANGE AT SH 121 AND US 75
COLLIN COUNTY, TEXAS
CSJ: 0364-04-040

PROJECT LOCATION



VICINITY MAP
NTS

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	7169051.7753	2531495.8059	631.210	75 @ STA 618+00.00, 198.20 RT
ARS 121-01	7169051.3460	2531495.8151	631.210	121 @ STA 1121+00.00, 198.20 RT
ARS 121-02	7169051.3460	2532601.8151	675.380	121 @ STA 1121+00.00, 5198.60 RT
ARS 121-06	7167173.5341	2531584.2538	660.21	121 @ STA 1121+00.00, 95.88 RT
ARS 121-10	7169763.7120	2531836.2638	576.820	121 @ STA 1121+00.00, 100.00 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 - 3.8 MILES
US 75 - 3.0 MILES
TOTAL - 6.8 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' CROP, 18" CURB, SIDEWALK W/12' CLEAR PATH
(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 N. ALI & ASSOCIATES.
3. STATIONS ARE REFERENCED TO SH 121 BASELINE UNLESS NOTED OTHERWISE.
4. COMPLETE REMOVAL OF EXISTING PAVEMENT AND STRUCTURES IS INTENDED 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 121 FRONTAGE ROADS
ROLL 7 AND 8 = PROFILES US 75 FRONTAGE ROADS
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Texas Department of Transportation
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NORTH TEXAS TOLLWAY AUTHORITY

DESIGN SCHEMATIC
SH 121 AT US 75
COLLIN COUNTY, TEXAS

JACOBS
BRIDGEFARMER
SECTION 4

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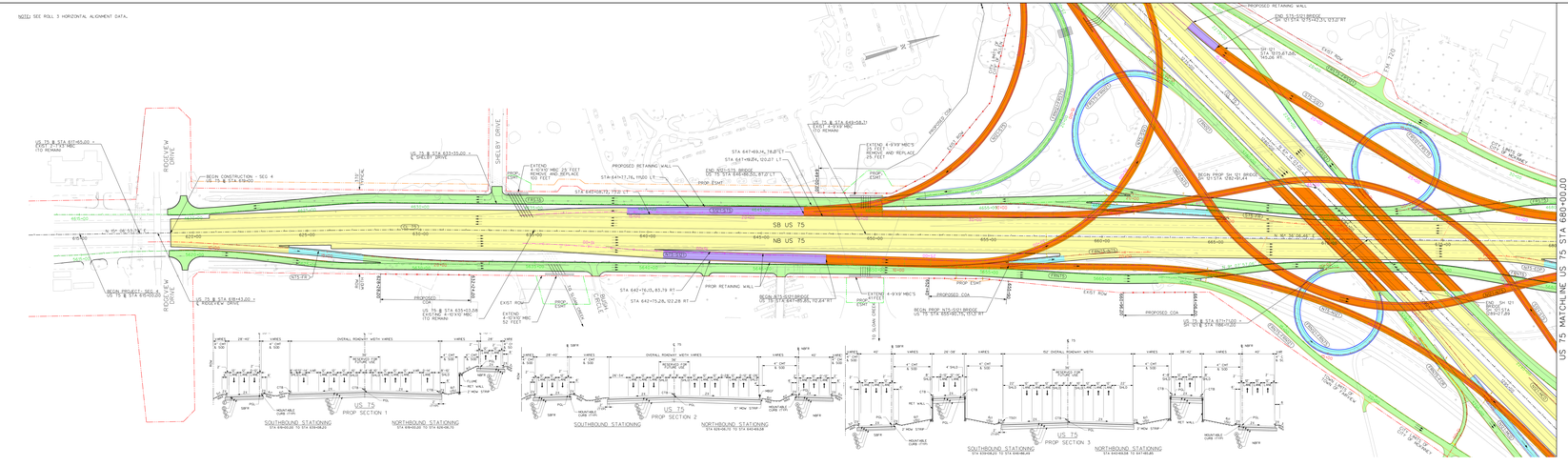
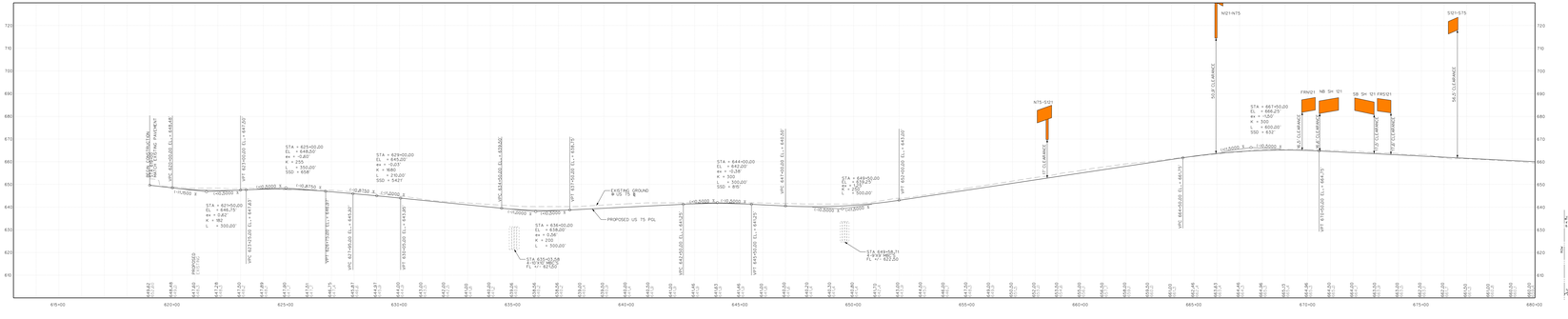
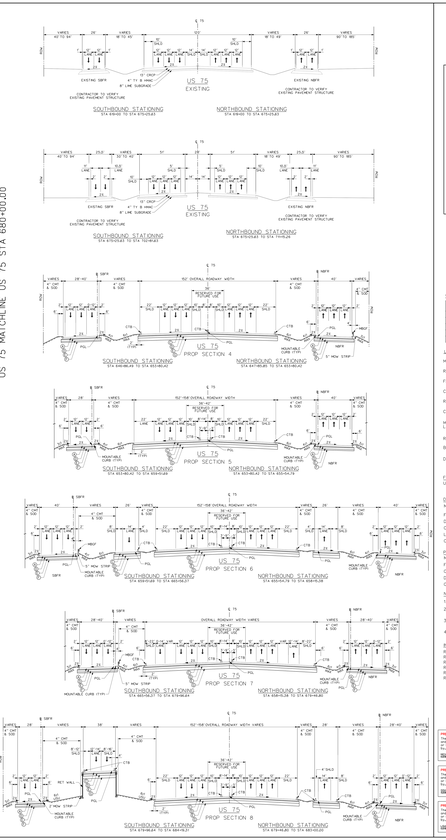
DESIGNED JH DATE MAY 2008 | CHECKED JH DATE MAY 2008 | DRAWN JH DATE MAY 2008 | REVIEWED JH DATE MAY 2008 | SUPERVISED JH DATE MAY 2008 | DATE MAY 2008 | SCALE 1" = 100' | APPROVED

CONTRACT 0292-04-131-04-PS-PM ROLL 4 OF 11

NOTE: SEE ROLL 5 HORIZONTAL ALIGNMENT DATA.







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