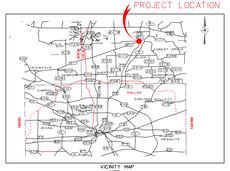
INTERCHANGE AT SH 121 AND US 75
COLLIN COUNTY, TEXAS
CSJ: 0364-04-040

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	7169351.7753	2534955.8959	693.210	75 & 574.69+00.00, 146.25 RT
ARS 121-01	7169351.0453	2537051.6457	675.060	121 & 1297+11.00, 146.25 RT
ARS 121-02	7168351.0453	2537051.6457	671.060	121 & 1311+57.47, 0.00 LT
ARS 121-06	7167173.5364	2537584.2578	660.21	121 & 1374+11.93, 95.96 RT
ARS 121-10	7164755.7505	2539836.2658	676.820	121 & 1374+11.00, 1100.00 LT

LEGEND

	EXISTING	PROPOSED
MAIN LANE		
RAMP		
FRONTAGE ROAD		
CROSS STREETS		
RIGHT-OF-WAY/PROPERTY LINES		
CONTROL-OF-ACCESS	---	---
MAINLANE/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 - 8.8 MILES

DESIGN SPEEDS		TYPICAL SECTIONS	
MAIN LANES:	TO MPH BASED ON URBAN ALTERNATE FREEWAY	(A) 6" CRCP	
FRONTAGE ROAD:	35 MPH	(B) 4" HMAC (TY B)	
DIRECT CONNECT RAMPS:	50 MPH BASED ON IND RANGE	(C) 12" FLEX (SIGN W/12" OVERLAY)	
ON/OFF RAMPS:	50 MPH BASED ON IND RANGE	(D) 12" CRCP	
LOOP RAMPS:	25 MPH	(E) 14" CRCP	
CROSS STREETS:	45 MPH (30 MPH WHERE NOTED)	(F) 10" CRCP	

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

SCALE
PLAN: 1"=100'
PROFILE: HORIZ 1"=100' VERT 1"=10'

NOTES:
1. HORIZONTAL AND VERTICAL CONTROL BASED ON NAD 83 COORDINATES.
2. GRADES, LOCATIONS BASED ON TOLL TRAFFIC AND REVENUE STUDY BY WILLIAMS-PARSONS.
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 FRONTAGE ROADS
ROLL 6 AND 7 = PROFILES US 75 FRONTAGE ROADS
ROLL 8 AND 9 = PROFILES US 75 RAMPS
ROLL 9 AND 11 = PROFILES

Texas Department of Transportation

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NTTA
NORTH TEXAS TOLLWAY AUTHORITY

DESIGN SCHEMATIC
SH 121 AT US 75
COLLIN COUNTY, TEXAS

JACOBS
BRIDGEFARMER
SECTION 4

PRELIMINARY - FOR INFORMATION ONLY
These Documents are in Design Review and not intended for Construction, Bidding or Permit purposes. They were prepared or compiled under the supervision of:
JAMES R. HARCOURT, P.E. JUN 26, 2008

CONTRACT 0292-04-124-PS-PM ROLL 3 OF 11

SUPER ELEVATION TABLE: MAIN LANES (70 MPH)

ON/OFF RAMP NAME	DELTA (DEGREES)	RADIUS (FEET)	"L" (FEET)	TRANSITION LENGTH (FEET)	BEG SUP. STA.	BEG FULL SE	END FULL SE	END SUP. STA.
CL121-1	70	8.00	0.000	-	SE NOT REQUIRED			
CL121-2	70	8.00	0.000	-	SE NOT REQUIRED			
CR121-1	70	8.00	6.344	292.00 FT	1311+66.00	1324+66.00	1368+66.00	1368+66.00
CR121-2	70	8.00	6.344	215.00 FT	6+54+65.00	6+54+65	6+07+66.00	6+09+65.00

SUPER ELEVATION TABLE: RAMPS (50 MPH)

ON/OFF RAMP NAME	DELTA (DEGREES)	RADIUS (FEET)	"L" (FEET)	TRANSITION LENGTH (FEET)	BEG SUP. STA.	BEG FULL SE	END FULL SE	END SUP. STA.
CL75-1	70	8.00	0.000	-	SE NOT REQUIRED			
CL75-2	70	8.00	0.000	-	SE NOT REQUIRED			

SUPER ELEVATION TABLE: RAMPS (50 MPH)

CURVE #	DELTA (DEGREES)	RADIUS (FEET)	"L" (FEET)	TRANSITION LENGTH (FEET)	BEG SUP. STA.	BEG FULL SE	END FULL SE	END SUP. STA.
LOOP RAMPS & DIRECT CONNECTORS								
L2-NTR-1	50	8.00	3.88	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-NTR-2	50	8.00	3.88	192.0 FT	1343+31.3	1343+31.3	1345+31.3	1345+31.3
L2-NTR-3	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-NWL-1	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-NWL-2	50	8.00	3.14	192.0 FT	1338+00.00	1338+00.00	1340+00.00	1340+00.00
L2-NWL-3	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-SWL-1	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-SWL-2	50	8.00	3.14	192.0 FT	1338+00.00	1338+00.00	1340+00.00	1340+00.00
L2-SWL-3	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-NET-1	50	8.00	1.40	151.2 FT	4(DB)+00.18	4(DB)+00.21	4(DB)+00.85	4(DB)+00.85
L2-NET-2	50	8.00	1.40	146.5 FT	4(DB)+00.18	4(DB)+00.21	4(DB)+00.85	4(DB)+00.85
L2-NET-3	50	8.00	4.50	150.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-NET-4	50	8.00	4.50	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-NET-5	50	8.00	3.80	150.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
L2-NET-6	50	8.00	3.80	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
FR4E2	50	8.00	3.14	146.5 FT	1343+31.3	1343+31.3	1345+31.3	1345+31.3
FR4E3	50	8.00	2.19	146.5 FT	1340+53	1340+53	1342+53	1342+53
FR4E4	50	8.00	3.14	146.5 FT	2(AB)+78	2(AB)+78	2(AB)+78	2(AB)+78
FR4E5	50	8.00	5.50	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
FR4F1	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
FR4F2	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
FR4F3	50	8.00	2.19	146.5 FT	1340+53	1340+53	1342+53	1342+53
FR4F4	50	8.00	3.14	146.5 FT	2(AB)+78	2(AB)+78	2(AB)+78	2(AB)+78
FR4F5	50	8.00	5.50	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
TQ2F-1	50	8.00	3.10	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
TQ2F-2	50	8.00	3.10	3.5 FT	SE NOT REQUIRED			
TQ2F-3	50	8.00	2.25	3.5 FT	SE NOT REQUIRED			
TQ2F-4	50	8.00	3.10	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
TQ2F-5	50	8.00	3.10		SE NOT REQUIRED			
TQ2F-6	50	8.00	2.25		SE NOT REQUIRED			
TQ2F-8	50	8.00	4.85	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
TQ4F-1	50	8.00	3.10	146.5 FT	6+07.13	1344+66.00	1345+53	1345+66.00
TQ4F-2	50	8.00	4.40	151.2 FT	1343+31.3	1343+66.00	1345+53	1345+66.00
TQ4F-3	50	8.00	3.10	146.5 FT	1340+53	1340+53	1342+53	1342+53
TQ4F-4	50	8.00	4.85	146.5 FT	1338+00.00	1338+00.00	1340+00.00	1340+00.00
LT121-1	50	8.00	3.14	146.5 FT	5(CD)+00.00	5(CD)+00.00	5(EF)+00.00	5(EF)+00.00
LT121-2	50	8.00	3.14	146.5 FT	5(CD)+00.00	5(CD)+00.00	5(EF)+00.00	5(EF)+00.00
MR4F1-1	50	8.00	3.14	146.5 FT	1338+00.00	1338+00.00	1340+00.00	1340+00.00
MR4F1-2	50	8.00	3.14	146.5 FT	4(GH)+00.00	4(GH)+00.00	4(IJ)+00.00	4(IJ)+00.00
MR4T6-1	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
MR4T6-2	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
MR4T6-3	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
MR4T6-4	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DIRECT CONNECT RAMPS								
DC2X-1	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-2	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-3	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-4	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-5	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-6	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-7	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-8	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-9	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-10	50	8.00	2.19	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-11	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-12	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-13	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC2X-14	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC4X1	50	8.00	3.14	146.5 FT	SE NOT APPLICABLE - CROSS SLOPE CONTROLLED BY MAIN			
DC4X2	50	8.00	3.14	146.5 FT	3(YZ)+00.00	3(YZ)+00.00	3(YZ)+00.00	3(YZ)+00.00
DC4X3	50	8.00	3.14	146.5 FT	3(YZ)+00.00	3(YZ)+00.00	3(YZ)+00.00	3(YZ)+00.00
DC4X4	50	8.00	3.14	146.5 FT	3(YZ)+00.00	3(YZ)+00.00	3(YZ)+00.00	3(YZ)+00.00
DC4X5	50	8.00	3.14	146.5 FT	3(YZ)+00.00	3(YZ)+00.00	3(YZ)+00.00	3(YZ)+00.00

SUPER ELEVATION TABLE: LOOP RAMPS (25 MPH)

CURVE #	DELTA (DEGREES)	RADIUS (FEET)	"L" (FEET)	TRANSITION LENGTH (FEET)	BEG SUP. STA.	BEG FULL SE	END FULL SE	END SUP. STA.
LOOP RAMPS & FRONTAGE ROAD CONNECTORS								
FR4W-1	25	8.00	8.39	80.00 FT	6+75.18	1340+66.18	2(AB)+66.18	2(AB)+66.18
FR4W-2	25	8.00	8.39	78.00 FT	6+68.00	6+06.00	1338+66.18	1338+66.18
FR4W-3	25	8.00	8.39	78.00 FT	6+01.11	1340+66.18	2(AB)+66.18	2(AB)+66.18
FR4W-5	25	8.00	8.39	80.00 FT	6+74.42	1340+66.18	2(AB)+66.18	2(AB)+66.18
FR4W-6	25	8.00	8.39	135.00 FT	1148.00	1340+66.18	2(AB)+66.18	2(AB)+66.18
FR4W-7	25	8.00	8.39	115.00 FT	1148.00	1338+66.18	2(AB)+66.18	2(AB)+66.18

ALIGNMENT DATA RAMPS (50 MPH)

CURVE	STATION	BEARING	DELTA	LENGTH	TANGENT	RADIUS
TR4E1-1	PC 1343+31.30	N 79° 38'-06.0" E	14° 20'-32.80" RT	183.54'	92.56'	5,000.00'
	PT 1345+15.00	N 65° 17'-33.20" E				
TR4E2-1	PC 1340+53.00	N 79° 38'-06.0" E	14° 20'-32.80" RT	183.54'	92.56'	5,000.00'
	PT 1342+36.54	N 65° 17'-33.20" E				
TR4E3-2	PC 1(AB)+78.00	N 79° 38'-06.0" E	14° 20'-32.80" RT	447.49'	225.42'	1,500.00'
	PT 2(AB)+25.49	N 64° 17'-33.20" E				
TR4E3-3	PC 2(AB)+78.00	N 79° 38'-06.0" E	14° 17'-15.00" RT	405.31'	202.77'	1,527.00'
	PT 2(AB)+83.31	N 64° 21'-21.00" E				
TR4E3-4	PC 2(AB)+78.00	N 79° 38'-06.0" E	14° 17'-15.00" RT	235.81'	117.97'	1,865.00'
	PT 2(AB)+14.31	N 64° 21'-21.00" E				
TR4E3-5	PC 2(AB)+78.00	N 79° 38'-06.0" E	14° 17'-15.00" RT	319.84'	160.20'	1,865.00'
	PT 2(AB)+98.20	N 64° 21'-21.00" E				
TR4E4-5-1	PC 1340+53.00	N 79° 38'-06.0" E	14° 20'-32.80" RT	299.77'	150.00'	1,865.00'
	PT 1342+52.77	N 65° 17'-33.20" E				
TR4T6-2	PC 1338+00.00	N 79° 38'-06.0" E	14° 20'-32.80" RT	301.28'	150.78'	1,865.00'
	PT 1340+00.28	N 65° 17'-33.20" E				

ALIGNMENT DATA MAINLANES (70 MPH)

CURVE	STATION	BEARING	DELTA	LENGTH	TANGENT	RADIUS
CL121-1	PC 1311+57.47	N 79° 38'-06.0" E	8° 33'-12.00" LT	198.00'	344.10'	1,500.00'
	PT 1313+55.47	N 87° 11'-18.00" E				
CL121-2	PC 1311+57.47	N 79° 38'-06.0" E	8° 33'-12.00" LT	1,433.58'	717.64'	10,058.00'
	PT 1326+91.05	N 75° 04'-54.00" E				
CL121-3	PC 1326+91.05	N 75° 04'-54.00" E	14° 52'-15.00" LT	180.58'	364.62'	3,526.00'
	PT 1328+71.63	N 89° 57'-09.00" E				
CR121-1	PC 1324+66.00	N 79° 38'-06.0" E	14° 52'-15.00" LT	178.44'	361.52'	3,500.00'
	PT 1326+44.44	N 89° 57'-09.00" E				
CL75-1	PC 6+07.13	N 13° 08'-53.00" E	2° 12'-16.00" RT	184.75'	292.57'	23,878.31'
	PT 6+91.88	N 15° 21'-09.00" E				
CL75-2	PC 4(IJ)+00.00	N 13° 08'-06.00" E	19° 46'-36.72" LT	1,905.91'	1,491.23'	11,500.00'
	PT 4(YZ)+05.91	N 32° 54'-42.72" E				

ALIGNMENT DATA/RAMPS/CROSS STREETS (RAMPS: 50 MPH/CROSS STREETS: 30-45 MPH)

CURVE	STATION	BEARING	DELTA	LENGTH	TANGENT	RADIUS
TQ4F-1	PC 1345.54	N 15° 08'-54.00" E	4° 10'-33.00" RT	183.37'	105.23'	2,885.00'
	PT 1347.09	N 19° 19'-27.00" E				
TQ2F-1	PC 1344.66	N 15° 08'-54.00" E	4° 10'-33.00" RT	324.50'	162.18'	5,000.00'
	PT 1347.79	N 19° 19'-27.00" E				
TQ4F-3	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
TQ2F-4	PC 1345.53	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1347.00	N 27° 54'-42.00" E				
TQ2F-7	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
TQ2F-8	PC 1345.53	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1347.00	N 27° 54'-42.00" E				
TQ2F-9	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
TQ2F-10	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
TQ2F-11	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
TQ2F-12	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
TQ2F-13	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
TQ2F-14	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
TQ2F-15	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
TQ2F-16	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4T6-5	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4T6-6	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4T6-7	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4T6-8	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E1-1	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E1-2	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E1-3	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E1-4	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E1-5	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E1-6	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E1-7	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E1-8	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-1	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-2	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-3	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-4	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-5	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-6	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-7	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-8	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-9	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-10	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-11	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-12	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-13	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-14	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-15	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-16	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-17	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-18	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-19	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-20	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-21	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-22	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-23	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-24	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-25	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-26	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-27	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-28	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-29	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-30	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4E2-31	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 36'-15" LT	608.44'	304.48'	4,000.00'
	PT 1(YZ)+08.44	N 27° 54'-42.00" E				
MR4E2-32	PC 1(YZ)+00.00	N 19° 19'-27.00" E	8° 46'-03.00" RT	144.50'	72.40'	1,865.00'
	PT 1(YZ)+01.45	N 27° 54'-42.00" E				
MR4