

205 BYPASS

FM-1141

Beginning chain 205_S2A description

Point PH2P01 N 7,030,825.24 E 2,600,558.87 Sta 82+50.00

Course from PT 205_S2R-1 to PC 205_S2R-2 N 30° 45' 29.34" W Dist 252.30

Curve Data

Curve 205_PH2-1
 P. I. Station 89+53.41 N 7,031,429.70 E 2,600,209.14
 Delta = 25° 25' 15.17" (RT)
 Degree = 2° 51' 53.24"
 Tangent = 451.10
 Length = 887.36
 Radius = 2,000.00
 External = 50.24
 Long Chord = 880.10
 Mid. Ord. = 49.01
 P. C. Station 85+02.30 N 7,031,042.05 E 2,600,439.84
 P. T. Station 93+89.66 N 7,031,878.85 E 2,600,167.18
 C. C. 7,032,064.88 E 2,602,158.51
 Back = N 30° 45' 29.34" W
 Ahead = N 5° 20' 14.18" W
 Chord Bear = N 18° 02' 51.76" W

205BP-1

Course from PT 205_S2R-2 to PC 205_S2R-3 N 5° 20' 14.18" W Dist 1,112.46

Curve Data

Curve 205_PH2-2
 P. I. Station 105+80.48 N 7,033,064.51 E 2,600,056.41
 Delta = 4° 29' 16.18" (RT)
 Degree = 2° 51' 53.24"
 Tangent = 78.37
 Length = 156.65
 Radius = 2,000.00
 External = 1.53
 Long Chord = 156.61
 Mid. Ord. = 1.53
 P. C. Station 105+02.12 N 7,032,986.48 E 2,600,063.70
 P. T. Station 106+58.77 N 7,033,142.87 E 2,600,055.25
 C. C. 7,033,172.52 E 2,602,055.03
 Back = N 5° 20' 14.18" W
 Ahead = N 0° 50' 57.99" W
 Chord Bear = N 3° 05' 36.08" W

205BP-2

Course from PT 205_PH2-2 to PH2P02 N 0° 50' 58" W Dist 1,341.23

Point PH2P02 N 7,034,483.95 E 2,600,035.36 Sta 120+00.00

FM1141-1

Curve FM1141CURVE
 P. I. Station 3+52.76 N 7,033,321.99 E 2,599,917.06
 Delta = 47° 45' 59.01" (RT)
 Degree = 16° 36' 26.90"
 Tangent = 152.76
 Length = 287.62
 Radius = 345.00
 External = 32.31
 Long Chord = 279.36
 Mid. Ord. = 29.54
 P. C. Station 2+00.00 N 7,033,208.50 E 2,599,814.81
 P. T. Station 4+87.62 N 7,033,322.57 E 2,600,069.82
 C. C. 7,032,977.58 E 2,600,071.13
 Back = N 42° 00' 58.13" E
 Ahead = N 89° 46' 57.13" E
 Chord Bear = N 65° 53' 57.63" E

Point 34 N 7,033,322.57 E 2,600,069.82 Sta 4+87.62

Course from 34 to 35 N 89° 46' 57.13" E Dist 554.51

Point 35 N 7,033,324.68 E 2,600,624.33 Sta 10+42.13

Point DETFM01 N 7,033,225.42 E 2,599,831.14 Sta 0+00.00

Course from DETFM01 to PC DETFM-1 S 70° 09' 46.25" E Dist 104.30

Curve Data

Curve DETFM-1
 P. I. Station 1+52.89 N 7,033,173.54 E 2,599,974.95
 Delta = 38° 16' 51.53" (LT)
 Degree = 40° 55' 32.00"
 Tangent = 48.59
 Length = 93.54
 Radius = 140.00
 External = 8.19
 Long Chord = 91.81
 Mid. Ord. = 7.74
 P. C. Station 1+04.30 N 7,033,190.03 E 2,599,929.25
 P. T. Station 1+97.84 N 7,033,188.91 E 2,600,021.05
 C. C. 7,033,321.72 E 2,599,976.75
 Back = S 70° 09' 46.25" E
 Ahead = N 71° 33' 22.22" E
 Chord Bear = S 89° 18' 12.01" E

DC1

Course from PT DETFM-1 to PC DETFM-2 N 71° 33' 22.22" E Dist 403.75

Curve Data

Curve DETFM-2
 P. I. Station 6+19.13 N 7,033,322.20 E 2,600,420.70
 Delta = 17° 58' 04.77" (RT)
 Degree = 51° 37' 04.15"
 Tangent = 17.55
 Length = 34.81
 Radius = 111.00
 External = 1.38
 Long Chord = 34.67
 Mid. Ord. = 1.36
 P. C. Station 6+01.58 N 7,033,316.65 E 2,600,404.06
 P. T. Station 6+36.39 N 7,033,322.35 E 2,600,438.25
 C. C. 7,033,211.35 E 2,600,439.17
 Back = N 71° 33' 22.22" E
 Ahead = N 89° 31' 27.00" E
 Chord Bear = N 80° 32' 24.61" E

DC2


Course from PT DETFM-2 to DETFM08 N 89° 31' 27.00" E Dist 63.61

Point DETFM08 N 7,033,322.87 E 2,600,501.86 Sta 7+00.00

RECORD DRAWING
 This drawing is a compilation of the original sealed engineering drawing and modifications by addenda, change orders and information furnished by the contractor. Information shown that was provided by the contractor and others not associated with the design engineer cannot be verified for accuracy or completeness. Original sealed drawing is on file at the office of AECOM USA Group, Inc., TBPE REG. NO. F-3082

ORIGINAL DRAWING SEALED & SIGNED BY
 T.H. Gaertner, P.E.
 TX NO. 37124

NO.	REVISION	BY	DATE

 **City of Rockwall, Texas**

205 BYPASS PHASE 2

HORIZONTAL CONTROL DATA

TCB | AECOM
 TCB INC. WWW.TCB.AECOM.COM
 17300 DALLAS PARKWAY, SUITE 1010
 DALLAS, TEXAS 75248

Unit	PW-DAL-FW	Scale	Horz: AS SHOWN Vert: AS SHOWN	Date	11/23/2009
Designed	THG	Checked	TCB	Project No.	60004153
Drawn	FG	Approved	TCB	Sheet	20 of 142

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