100% SUBMITTAL

SHEET 5 OF 9

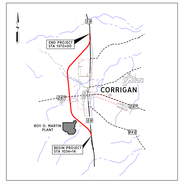
Texas Department of Transportation

STATE OF TEXAS
PRELIMINARY DESIGN SCHEMATIC
FOR
US 59

POLK COUNTY

PROJECT LIMITS: 3.0 MI S OF JCT 59 & FM 92 W TO 3.4 MI N OF US 287
APPROX LENGTH OF PROJECT: 15,366 FT = 6.4 MI

CSJ 0178-04-098 & CSJ 0178-05-104 (POLK COUNTY)
CHERYL P. FLOOD, P.E. DISTRICT ENGINEER




VICINITY MAP

0 150' 300'
HORIZ SCALE

0 15' 30'
VERT SCALE

US 59 TRAFFIC VOLUMES
EXISTING: (2019 ADT) 11,650
PROJECTED: (2039 ADT) 16,000

FUNCTIONAL CLASSIFICATION: RURAL FREEWAY

DESIGN SPEED:
MAINLANES = 70 MPH
RAMPS = 50 MPH

LEGEND

- EXISTING ROW
- PROPOSED ROW
- PROPOSED C.O.S.
- EXISTING PROPERTY LINE
- OHP — EXISTING OVERHEAD HIGH VOLTAGE TRANSMISSION LINE
- OE — EXISTING OVERHEAD ELECTRIC
- OE/OT — EXISTING OVERHEAD ELECTRIC AND OVERHEAD TELEPHONE
- FO — EXISTING FIBER OPTICS (UNDERGROUND)
- G — EXISTING GAS LINE
- WW — PROPOSED WASTEWATER LINE (BY OTHERS)
- PROPOSED BRIDGE
- PROPOSED MAINLANES
- PROPOSED CONNECTORS, RAMPS & CROSS STREETS
- PROPOSED DRIVEWAY
- PAVEMENT TO BE REMOVED
- FLOODPLAIN
- WETLANDS
- NUMBER OF LANES

PRELIMINARY
SUBJECT TO CHANGE

NOT A BIDDING DOCUMENT

PRELIMINARY

BY: THOMAS C. RUYKENDALL, JR., P.E. #86302

DATE: 2/8/2018

NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

SUBMITTAL DATE: FEBRUARY 2018

CivilCorp

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1501 E. Mesquite St., Suite 105
Victoria, Texas 77901
(361) 485-1900 (361) 485-1901 fax

HOUSTON OFFICE
2925 Briarpark Dr., Suite 1050
Houston, Texas 77042
(713) 353-4420 (713) 353-4421 fax

FIRM REGISTRATION NUMBER - 11088

DATE: 2/8/2018
TIME: 9:02:29 AM
FILE: I:\CIVILCORP\PROJECTS\0178-05-104 US 59 SUBMITTAL\PS AND E\PS AND E SUBMITTAL\PS AND E SHEETS\PS AND E SHEET 5 OF 9.DGN

BP_SBEX59
Curve BP_SBEX59
P.I. Station = 64+15.82
Delta = 23° 29' 04.53" (LT)
Degree = 2° 51' 53.24"
Tangent = 415.8900
Length = 819.9609
Radius = 2,000.0000
External = 42.5943
Long Chord = 814.2303
Mid. Ord. = 41.8740
Chord Azm = 153°-14'-03"
Chord Dir. = S 63°-03'-57" E
P.C. Station = 60+16.64
P.T. Station = 68+19.96

BP_NBEX59
Curve BP_NBEX59
P.I. Station = 58+33.37
Delta = 23° 29' 04.53" (RT)
Degree = 1° 51' 18.68"
Tangent = 76.7225
Length = 151.0000
Radius = 3,100.0000
External = 1.5163
Long Chord = 150.8163
Mid. Ord. = 1.5163
P.C. Station = 58+16.64
P.T. Station = 59+70.08

Curve BP_SBEX592
P.I. Station = 73+15.88
Delta = 33° 51' 32.73" (RT)
Degree = 5° 29' 05.19"
Tangent = 1,064.0000
Length = 1,933.0548
Radius = 1,064.0000
External = 267.5344
Long Chord = 890.1344
Mid. Ord. = 97.5430
P.C. Station = 62+51.88
P.T. Station = 76+56.20

Curve BP_NBEX592
P.I. Station = 63+76.58
Delta = 33° 51' 32.73" (LT)
Degree = 1° 00' 18.68"
Tangent = 76.7225
Length = 151.0000
Radius = 5,700.0000
External = 1.5163
Long Chord = 150.8163
Mid. Ord. = 1.5163
P.C. Station = 63+00.86
P.T. Station = 64+56.29

Curve BP_SBEX593
P.I. Station = 82+69.45
Delta = 21° 41' 08.13" (LT)
Degree = 1° 58' 32.68"
Tangent = 1,231.4317
Length = 2,421.4317
Radius = 2,900.0000
External = 257.1852
Long Chord = 2,406.1852
Mid. Ord. = 171.1686
P.C. Station = 70+38.02
P.T. Station = 85+83.91

BP_PACCESS3
Curve BP_PACCESS3
P.I. Station = 137+97.98
Delta = 90° 02' 51.71" (LT)
Degree = 31° 28' 52.31"
Tangent = 184.4629
Length = 282.0000
Long Chord = 253.8393
Mid. Ord. = 76.1777
P.C. Station = 135+13.52
P.T. Station = 137+95.52

US_59
Curve US_59
P.I. Station = 1344+23.35
Delta = 90° 48' 12.57" (LT)
Degree = 1° 41' 24.51"
Tangent = 2,280.1040
Length = 2,530.0000
Radius = 3,390.0000
External = 1,356.4228
Long Chord = 2,356.4228
P.C. Station = 1320+43.31
P.T. Station = 1346+44.54

Curve BP_SBEX594
P.I. Station = 88+36.63
Delta = 9° 04' 18.68" (RT)
Degree = 1° 00' 18.68"
Tangent = 505.1050
Length = 1,000.0000
Radius = 5,700.0000
External = 22.3193
Long Chord = 998.8991
Mid. Ord. = 5.5941
P.C. Station = 83+31.53
P.T. Station = 93+31.53

BP_PACCESS4
Curve BP_PACCESS4
P.I. Station = 141+07.19
Delta = 89° 57' 51.42" (LT)
Degree = 26° 52.31"
Tangent = 214.4286
Length = 282.0000
Long Chord = 253.8393
External = 72.1745
Mid. Ord. = 254.0983
P.C. Station = 139+29.76
P.T. Station = 142+11.02

Curve BP_SBEX595
P.I. Station = 94+60.70
Delta = 7° 41.89" (LT)
Degree = 1° 00' 18.68"
Tangent = 342.3317
Length = 5,700.0000
Radius = 5,700.0000
External = 741.7893
Mid. Ord. = 12.0796
P.C. Station = 88+18.37
P.T. Station = 99+31.33

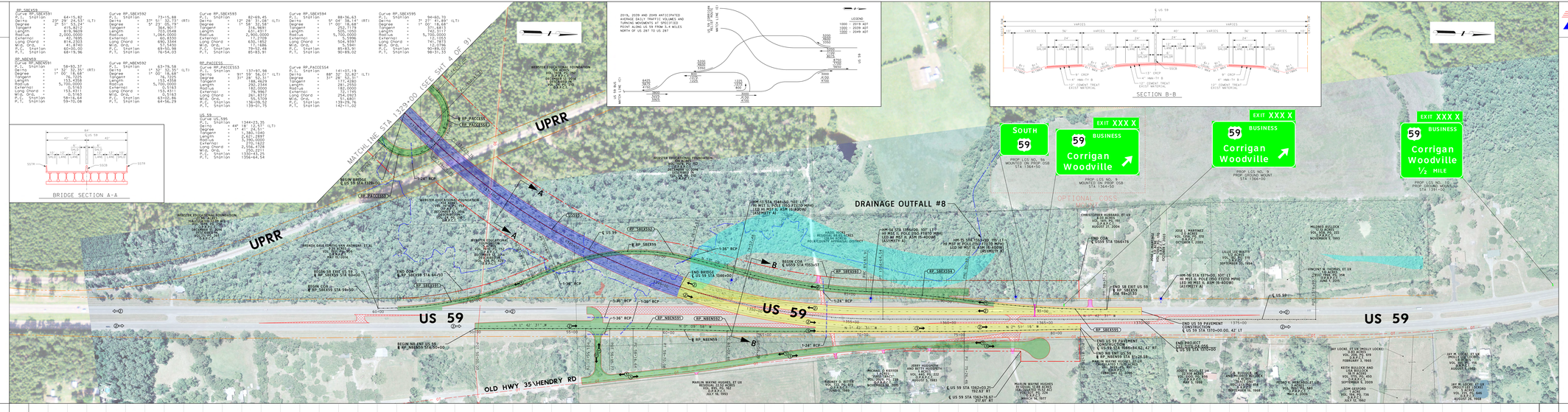



BRIDGE SECTION A-A








SOUTH
59
EXIT XXX X
59 BUSINESS
Corrigan
Woodville
EXIT XXX X
59 BUSINESS
Corrigan
Woodville
EXIT XXX X
59 BUSINESS
Corrigan
Woodville
½ MILE
PROP LCS NO. 9A
MOUNTED ON PROP OSB
STA 1364+50
PROP LCS NO. 9
MOUNTED ON PROP OSB
STA 1364+00
PROP LCS NO. 10
PROP GROUND MOUNT
STA 1391+50
OPTIONAL
DRAINAGE OUTFALL #8
MATCH LINE STA 1329+00 (SEE SHT 4 OF 9)
UPRR
UPRR
US 59
US 59
US 59
OLD HWY 35/HENDRY RD
WEBSTER EDUCATIONAL FOUNDATION
WEBSTER EDUCATIONAL FOUNDATION
WEBSTER EDUCATIONAL FOUNDATION
WEBSTER EDUCATIONAL FOUNDATION
BEGIN BRIDGE
℄ US 59 STA 1329+00
BEGIN SB EXIT US 59
℄ BP_SBEX59 STA 59+50
BEGIN COA
℄ BP_SBEX59 STA 59+50
END SB EXIT US 59
℄ BP_SBEX59 STA 64+50
END COA
℄ BP_SBEX59 STA 64+50
BEGIN NB EXIT US 59
℄ BP_NBEX59 STA 55+00
BEGIN COA
℄ BP_NBEX59 STA 55+00
END BRIDGE
℄ US 59 STA 1353+57
BEGIN COA
℄ US 59 STA 1353+57
END SB EXIT US 59
STA 1364+53
END COA
℄ US59 STA 1366+19
END US 59 PAVEMENT CONSTRUCTION
STA 1375+00.00, 42' LT
℄ US 59 STA 1375+00.00
END PROJECT
END CSJ 0178-05-104
℄ US 59 STA 1375+00
BEGIN NB EXIT US 59
STA 1362+03.27
192.87' RT
℄ US 59 STA 1363+76.67
217.67' RT
END US 59 PAVEMENT CONSTRUCTION
STA 1345+84.62, 42' RT
℄ BP_NBEX59 STA 1126.58
END BRIDGE
℄ US 59 STA 1346+00
END NB EXIT US 59
STA 1344+53
HM-59 STA 1344+50, 50' LT
HS MS5 S POLE (ISO FT1170 MTD)
LED MI MST (L ASM (6-400W)
(ASYMETT A)
HM-59 STA 1344+50, 70' LT
HS MS5 S POLE (ISO FT1170 MTD)
LED MI MST (L ASM (6-400W)
(ASYMETT A)