Texas Department of Transportation

US 77
CSJ: 2350-01-056,ETC.
LIMITS: FROM FM 236 TO US 59

YOAKUM DISTRICT

Paul Reitz, P.E.
YOAKUM DISTRICT ENGINEER

Jeff Virnikorem, P.E.
DIRECTOR OF TRANSPORTATION, PLANNING & DEVELOPMENT

DESIGN SPEED	FUNCTIONAL CLASS	ADT US 77 FROM FM 236 TO US 59
US 77 = 60 MPH	URBAN PRINCIPAL	2018 = x,xxx
FR RD = 50 MPH	ARTERIAL	2038 = x,xxx
SIDEROAD = 50 MPH		
US 59 DC = 50 MPH		
US 77 DC = 40 MPH		

LOCATION MAP
N.T.S.

LEGEND

- PROPOSED ROW
- PROPOSED CONTROL OF ACCESS LIMITS
- EXISTING ROW
- BURIED FIBER OPTIC
- TELEPHONE
- PIPELINE
- GAS LINE
- OVERHEAD ELECTRIC
- TRAFFIC FLOW DIRECTION
- PROPOSED ULTIMATE MAINLANE
- PROPOSED FRONTAGE ROAD
- PROPOSED RAMPS
- PROPOSED BRIDGE STRUCTURE
- EXISTING BRIDGE STRUCTURE
- PROPOSED DIRECT CONNECTOR
- PROPOSED CROSS STREET
- PROPOSED DRIVEWAY
- ROADWAY REMOVAL

PROFILE LEGEND

- PROPOSED US 77 PROFILE GRADE LINE (PGL)
- EXISTING NATURAL GROUND AT PROPOSED US 77 CENTERLINE
- CULVERT CROSSING

0 10' 20'

SCALE: PLAN 1"=200'
PROFILE 1"=20'

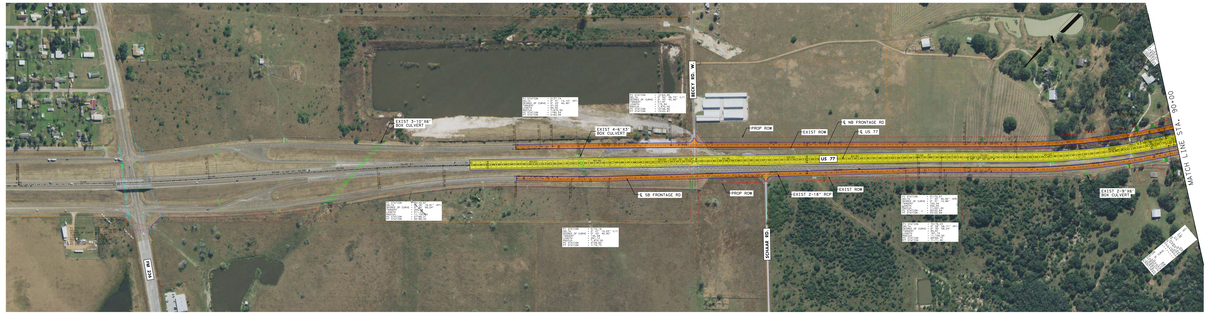
c.g.miller engineers
10400 Park Two Plaza
Suite 100
Houston, TX 77036
(713) 667-5600
TBPE FIRM F-187

US 77
ALTERNATIVE 1
SCHEMATIC LAYOUT
SEGMENT A

SHEET 1 OF 2

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6		

DESIGN: AF	STATE	DIST.	COUNTY
CHK.: RG	TEXAS	YKM	VICTORIA
DRN.: TP	CONT.	SECT.	JOB	HIGHWAY
CHK.: PR	2350	01	056,ETC	US 77


MATCH LINE STA. 90+00
MATCH LINE STA. 90+00
EXIST 7'x5'x48' RCB CULVERT
EXIST 6'x6'x73' RCB CULVERT
PROP ROW
EXIST ROW
E NB FRONTAGE RD
E NB 77
US 77
E NB FRONTAGE RD
PROP ROW
EXIST 2'x18" RCP
EXIST ROW
EXIST 2'x7'x78' RCB CULVERT
EXIST 2'x7'x78' RCB CULVERT
EXIST 2'x7'x78' RCB CULVERT

Texas Department of Transportation

US 77
CSJ: 2350-01-056,ETC.
LIMITS: FROM FM 236 TO US 59

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Jeff Virnstrom, P.E.
DIRECTOR OF TRANSPORTATION, PLANNING & DEVELOPMENT

DESIGN SPEED	FUNCTIONAL CLASS	ADT US 77 FROM FM 236 TO US 59
US 77 = 60 MPH FR RD = 50 MPH US 59 DC = 50 MPH US 77 DC = 40 MPH	URBAN PRINCIPAL ARTERIAL	2018 = x,xxx 2038 = x,xxx

LOCATION MAP
N.T.S.

LEGEND

- PROPOSED ROW
- PROPOSED CONTROL OF ACCESS LIMITS
- EXISTING ROW
- BURIED FIBER OPTIC
- TELEPHONE
- PIPELINE
- GAS LINE
- OVERHEAD ELECTRIC
- TRAFFIC FLOW DIRECTION
- PROPOSED ULTIMATE MAINLANE
- PROPOSED FRONTAGE ROAD
- PROPOSED RAMPS
- PROPOSED BRIDGE STRUCTURE
- EXISTING BRIDGE STRUCTURE
- PROPOSED DIRECT CONNECTOR
- PROPOSED CROSS STREET
- PROPOSED DRIVEWAY
- ROADWAY REMOVAL

PROFILE LEGEND

- PROPOSED US 77 PROFILE GRADE LINE (PGL)
- EXISTING NATURAL GROUND AT PROPOSED US 77 CENTERLINE
- CULVERT CROSSING

0 10' 20'

SCALES: PLAN 1"=200'
PROFILE 1"=20'

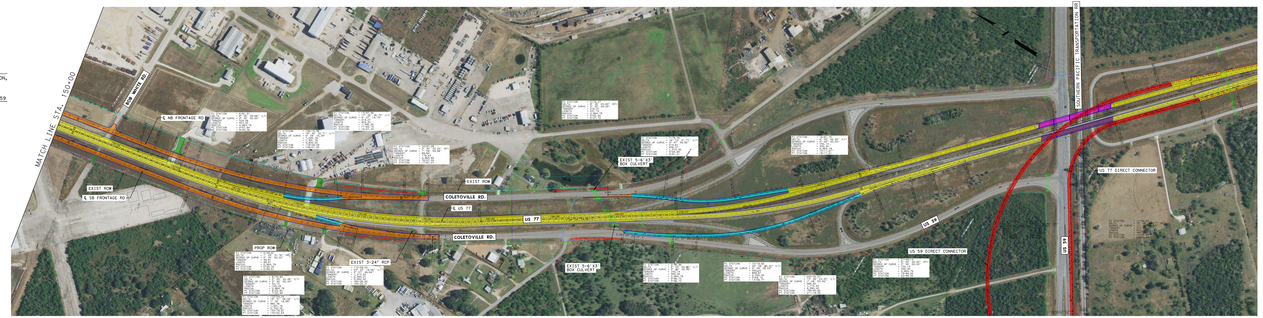
c.g. miller engineers
10440 Park Two Plaza
Suite 200
Houston, Texas 77036
(713) 667-5600
TBPE FIRM REGISTRATION # 10

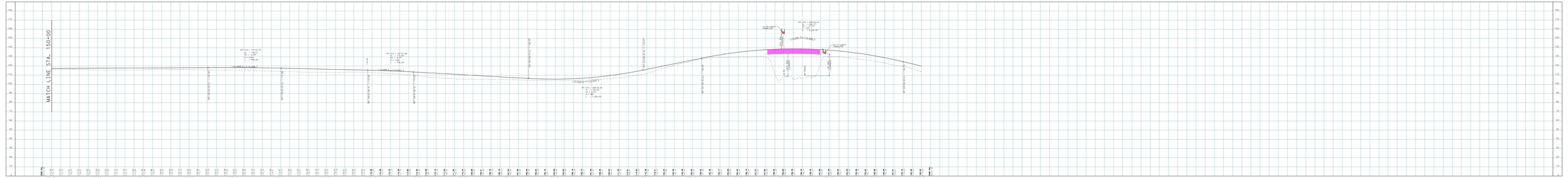
US 77
ALTERNATIVE 1
SCHEMATIC LAYOUT
SEGMENT A

SHEET 2 OF 2

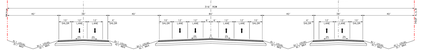
FED. RD. DIST. NO.	STATE	PROJECT NO.	SHEET NO.
6			

DES.: AF	STATE	DIST.	COUNTY	
CHK.: RG	TEXAS	YKM	VICTORIA	
DRN.: TP	CONT.	SECT.	JOB	HIGHWAY
CHK.: PR	2350	01	056,ETC	US 77





US 77
EXISTING TYPICAL SECTION



US 77
PROPOSED TYPICAL SECTION

US 77
SB EXIT RAMP/ENTRANCE RAMP

US 77
NB EXIT RAMP/ENTRANCE RAMP

US 59 DIRECT CONNECTOR

US 77 DIRECT CONNECTOR

SUPERELEVATION TABLE (M.C.L.)

CURVE NO.	PROFILE	APEX	SUPERELEVATION RATE	CROWN/ADVERSE RATE	BEGIN CROSS SLOPE	END CROSS SLOPE	BEGIN STA.	END STA.	BEGIN CROSS SLOPE	END CROSS SLOPE
C1	1+00	0	0.000	0.00	0.00	0.00				
C2	1+00	0	0.000	0.00	0.00	0.00				
C3	1+00	0	0.000	0.00	0.00	0.00				
C4	1+00	0	0.000	0.00	0.00	0.00	154+78.71	154+78.71	-2.00/-2.00	-2.00/-2.00
C5	1+00	0	0.000	0.00	0.00	0.00	155+00.00	155+00.00	-2.00/-2.00	-2.00/-2.00
C6	1+00	0	0.000	0.00	0.00	0.00	157+21.29	157+21.29	-2.00/-2.00	-2.00/-2.00

SUPERELEVATION TABLE (M.P.L.A.T

Texas Department of Transportation

US 77
CSJ: 2350-01-056,ETC.
LIMITS: FROM FM 236 TO US 59

YOAKUM DISTRICT

Paul Reitz, P.E.
YOAKUM DISTRICT ENGINEER

Jeff Virnstein, P.E.
DIRECTOR OF TRANSPORTATION, PLANNING & DEVELOPMENT

DESIGN SPEED	FUNCTIONAL CLASS	ADT US 77 FROM FM 236 TO US 59
US 77 = 60 MPH	URBAN PRINCIPAL	2018 = x,xxx
FM 80 = 50 MPH	ARTERIAL	2038 = x,xxx
US 59 = 50 MPH		
CONNER DR = 50 MPH		
US 77 DC = 40 MPH		

LOCATION MAP
N.T.S

LEGEND

PROPOSED ROW
EXISTING ROW
BURIED FIBER OPTIC
TELEPHONE
PIPELINE
GAS LINE
OVERHEAD ELECTRIC
TRAFFIC FLOW DIRECTION
PROPOSED ULTIMATE MAINLANE
PROPOSED FRONTAGE ROAD
PROPOSED RAMPS
PROPOSED BRIDGE STRUCTURE
EXISTING BRIDGE STRUCTURE
PROPOSED DIRECT CONNECTOR
PROPOSED CROSS STREET
PROPOSED DRIVEWAY
ROADWAY REMOVAL

PROFILE LEGEND

PROPOSED US 77
PROFILE GRADE LINE (PGL)
EXISTING NATURAL GROUND
AT PROPOSED US 77 CENTERLINE
CULVERT CROSSING

0 100' 200'
SCALE: PLAN 1"=200'
PROFILE 1"=20'

c.g.miller engineers
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Suite 200
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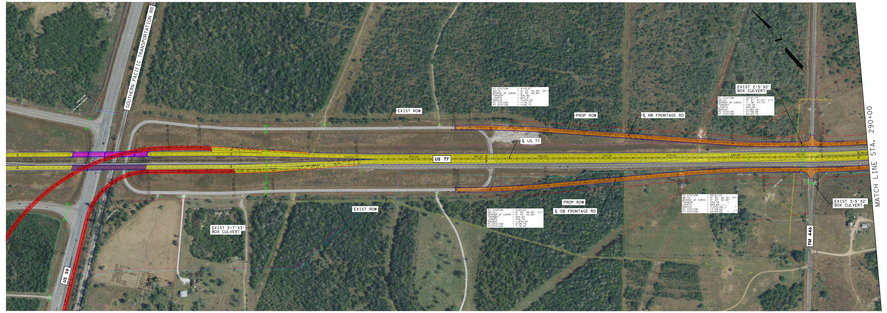
(713) 667-5400
TBPE FIRM F-1182

US 77
ALTERNATIVE 1
SCHEMATIC LAYOUT
SEGMENT B

SHEET 1 OF 2

FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
6		

DESIGN: AF	STATE	DIST.	COUNTY
CHK.: RG	TEXAS	YKM	VICTORIA
DRN.: TP	CONT.	SECT.	JOB HIGHWAY
CHK.: PR	2350	01	056,ETC,US 77


DOUGLAS FIELD TRANSPORTATION
EXIST ROW
PROP ROW
EXIST 24"x40' CMP CULVERT
EXIST 30" RCP
EXIST 2-30" RCP
EXIST 24" RCP
EXIST 3-60" RCP
EXIST 3-8'x8' BOX CULVERT
EXIST 3-10'x7' BOX CULVERT
EXIST 3-10'x7' BOX CULVERT
EXIST 3-8'x8' BOX CULVERT
EXIST 3-8'x8' BOX CULVERT
EXIST 3-8'x8

Texas Department of Transportation

US 77
CSJ: 2350-01-056,ETC.
LIMITS: FROM FM 236 TO US 59

YOAKUM DISTRICT

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Jeff Virnitzer, P.E.
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DESIGN SPEED	FUNCTIONAL CLASS	ADT US 77 FROM FM 236 TO US 59
US 77 = 60 MPH	URBAN PRINCIPAL	2018 = x,xxx
FR RD = 50 MPH	ARTERIAL	2038 = x,xxx
US 59 DC = 50 MPH		
US 77 DC = 40 MPH		

LOCATION MAP
N.T.S

LEGEND

- PROPOSED ROW
- EXISTING ROW
- BURIED FIBER OPTIC
- TELEPHONE
- PIPELINE
- GAS LINE
- OVERHEAD ELECTRIC
- TRAFFIC FLOW DIRECTION
- PROPOSED ULTIMATE MAINLANE
- PROPOSED FRONTAGE ROAD
- PROPOSED RAMPS
- PROPOSED BRIDGE STRUCTURE
- EXISTING BRIDGE STRUCTURE
- PROPOSED DIRECT CONNECTOR
- PROPOSED CROSS STREET
- PROPOSED DRIVEWAY
- ROADWAY REMOVAL

PROFILE LEGEND

- PROPOSED US 77 PROFILE GRADE LINE (PGL)
- EXISTING NATURAL GROUND AT PROPOSED US 77 CENTERLINE
- CULVERT CROSSING

SCALE: PLAN 1"=200'
PROFILE 1"=20'

c.g.miller engineers
16400 Park Row Place
Suite 160
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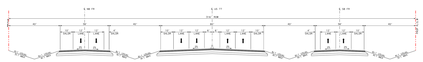
(281) 647-9600
TBPE FIRM REGISTRATION # : 451

US 77
ALTERNATIVE 1
SCHEMATIC LAYOUT
SEGMENT B

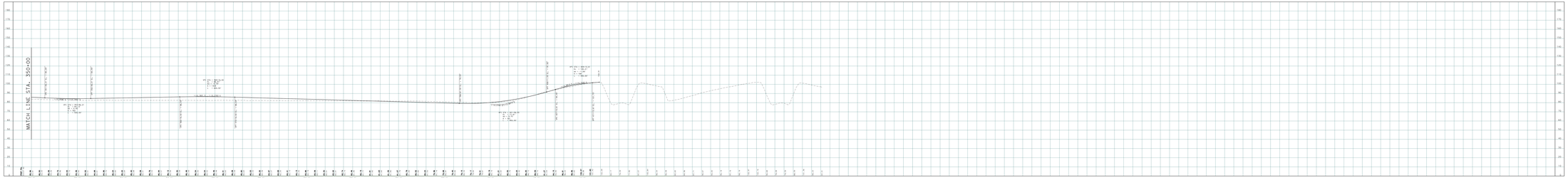
SHEET 2 OF 2

FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
6		

DES.: AF	STATE	DIST.	COUNTY	
CHK.: RG	TEXAS	YKM	VICTORIA	
DRN.: TP	CONT.	SECT.	JOB	HIGHWAY
CHK.: PR	2350	01	056,ETC	US 77



SB EXIT RAMP/ENTRANCE RAMP | NB EXIT RAMP/ENTRANCE RAMP | US 59 DIRECT CONNECTOR | US 77 DIRECT CONNECTOR


MATCH LINE STA. 350+00
PROPOSED RAMP
PROPOSED RAMP
US 77 PL = 203.00'
VC = 1000.00'
K = 1000.00'
PVI = 0+00.00
PVI = 10+03.00
VC = 1000.00'
K = 1000.00'
PROPOSED RAMP
PROPOSED RAMP
PROPOSED RAMP