BICENTENNIAL EXTENSION PROJECT
BOND 2013 STREET IMPROVEMENTS
McAllen, Texas

CITY OF McALLEN

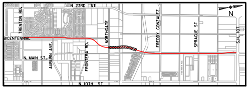
DESIGN DATA
BICENTENNIAL BOULEVARD

PROJECT LIMITS	:	FROM TRENTON ROAD TO SH0107
CSJ	:	0921-02-252
NET LENGTH	:	2.86 MILES
FUNCTIONAL CLASSIFICATION	:	MINOR ARTERIAL (56' B-B)
TRAFFIC DATA	:	ADT (2016) PENDING TRAFFIC STUDY ADT (2036) PENDING TRAFFIC STUDY
DESIGN SPEED	:	50 MPH
e MAX	:	"NC"
DESIGN CRITERIA	:	TxDOT ROADWAY DESIGN MANUAL CHAPTER 3, SECTION 2

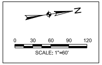
CROSSROADS POSTED SPEED TABLE	
TRENTON ROAD	45 MPH
AUBURN AVENUE	30 MPH
FRONTERA ROAD	30 MPH
NORTHGATE LANE	30 MPH
FREDDY GONZALEZ DRIVE	25 MPH
SPRAGUE ROAD	30 MPH
SH0107	55 MPH

LEGEND

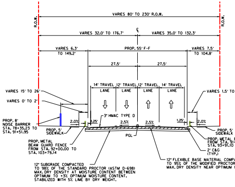
PROPOSED	EXISTING	
▬	▭	INLET
●	○	MANHOLE
	⊕	GATE VALVE & BOX
	✠	FIRE HYDRANT
— 12"SS —	— — SS — —	SAN. SEWER
— 12"W —	- - - W - - -	WATER
▬	— — SD — —	STORM SEWER
▬	- - - - - - -	
— NB —		
— MBGF —		METAL BEAM GUARD FENCE
	🟩	IRRIG. CANAL
	🟪	DRAINAGE DITCH
- - - ——	- - - ——	R.O.W.
	⟶	DRAINAGE FLOW
■	——	ASPHALT PAVEMENT
▨	▨	CONCRETE PAVEMENT
▨	☐	CONCRETE SIDEWALK
	⊙	TREE


N 23RD ST
TRENTON RD.
BICENTENNIAL
N. MAIN ST.
AUBURN AVE.
FRONTERA RD.
NORTHGATE
FREDDY GONZALEZ
SPRAGUE ST
S.H. 107
N 10TH ST
N

VICINITY MAP
NTS

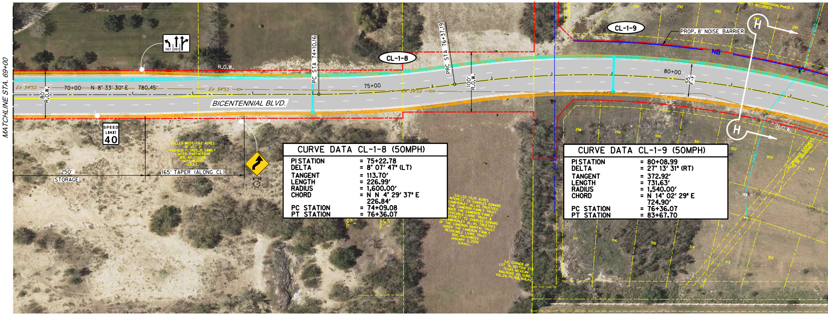

N
0
30
60
90
120

SCALE: 1"=60'


R.O.W.
VARIES 80' TO 230' R.O.W.
VARIES 32.0' TO 176.7'
℄
VARIES 35.0' TO 132.3'
VARIES 6.3' TO 149.2'
PROP. 55' F-F
VARIES 7.5' TO 104.8'
27.5'
27.5'
14' TRAVEL LANE
12' TRAVEL LANE
12' TRAVEL LANE
14' TRAVEL LANE
VARIES 15' TO 26'
VARIES 0' TO 2'
VARIES 1.5' TO
3" HMAC TYPE D
2.0%
1.25'
2.5%
2.5%
1.25'
2.0%
PROP. 8' NOISE BARRIER STA. 78+35.23 TO STA. 91+51.95
PROP. 5' SIDEWALK
PGL
PROP. 5' SIDEWALK
PROP. METAL BEAM GUARD FENCE FROM STA. 92+00.00 TO STA. 103+79.14
PROP. METAL FROM STA. 91+ STA. 93+91.10
2' C&G (TYP.)
12" SUBGRADE COMPACTED TO 98% OF THE STANDARD PROCTOR (ASTM D-698) MAX. DRY DENSITY AT MOISTURE CONTENT BETWEEN OPTIMUM TO +3% OPTIMUM MOISTURE CONTENT. STABILIZED WITH 5% LIME BY DRY WEIGHT.
12" FLEXIBLE BASE MATERIAL COMPA TO 95% OF THE MODIFIED PROCTOR MAX. DRY DENSITY NEAR OPTIMUM

SECTION H-H

PROPOSED TYPICAL SECTION (55' F-F) FROM STA 71+20.85 TO STA 99+84.14

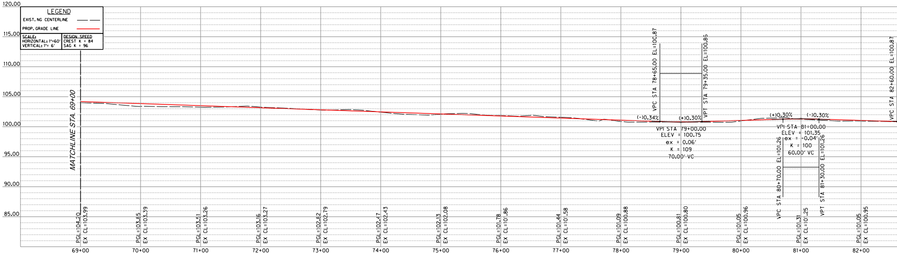

MATCHLINE STA. 69+00
R.O.W.
80' R.O.W.
Ex 54"SS
70+00
N 8° 33' 30" E
780.45'
BICENTENNIAL BLVD.
PC STA 74+10.16
CL-1-8
75+00
PRC STA 76+37.19
100' R.O.W.
CL-1-9
PROP. 8' NOISE BARRIER
NB
80+00
55' F-F
H
H
ONLY
ONLY
SPEED LIMIT 40
R2-1
W1-4R
250' STORAGE
165' TAPER (ALONG CL)
CALLED WEST 7.62 ACRES OF LOT 2 FIDENCIO FLORES,JR. FAMILY LIMITED PARTNERSHIP DOC. NO.1012706 SEPT.18,2001 O.R.H.C.
CALLED 14.25 ACRES INTEREST TO CHARLES EDWARD CAMERON,ET AL.AS TRUSTEES THE CAMERON FAMILY TRUST UNDER THE CAMERON FAMILY REVOCABLE LIVING TRUST & INTEREST TO CHARLES EDWARD CAMERON,ET AL.AS TRUSTEES OF THE CAMERON MARITAL TRUST UNDER THE CAMERON FAMILY REVOCABLE LIVING TRUST DOC. NO.1048223 JANUARY 2, 2002 O.R.H.C.
S.E. CORNER OF LOT 16, SECTION 27 TEXAS MEXICAN RAILROAD CO. SUBD. VOL.24, PG.168, M.R.H.C.
Ex 8"W
298
299
300
301
302
317
316
315
314
313
312
291
292
293
294
295

CURVE DATA CL-1-8 (50MPH)

PI STATION = 75+22.78
DELTA = 8° 07' 47" (LT)
TANGENT = 113.70'
LENGTH = 226.99'
RADIUS = 1,600.00'
CHORD = N N 4° 29' 37" E 226.84'
PC STATION = 74+09.08
PT STATION = 76+36.07

CURVE DATA CL-1-9 (50MPH)

PI STATION = 80+08.99
DELTA = 27° 13' 31" (RT)
TANGENT = 372.92'
LENGTH = 731.63'
RADIUS = 1,540.00'
CHORD = N 14° 02' 29" E 724.90'
PC STATION = 76+36.07
PT STATION = 83+67.70



HALFF
5000 WEST MILITARY, SUITE 100
McALLEN, TEXAS 78503
TEL (956) 664-0286
FAX (956) 664-0282
TBPE FIRM #F-312

ROBERT L. SAENZ
82072

NOT A BIDDING DOCUMENT

SCHEMATIC

FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMITTING. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

ROBERT L. SAENZ, P.E. 82072, 05/03/18
TBPE FIRM #F-312

Project No.:	30469
Issued:	MAY 2018
Drawn By:	B.L.
Checked By:	R.S.
Scale:	AS NOTED

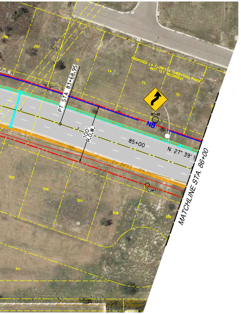
Sheet Title
BICENTENNIAL SCHEMATIC

ROLL 2 OF 2
Sheet Number

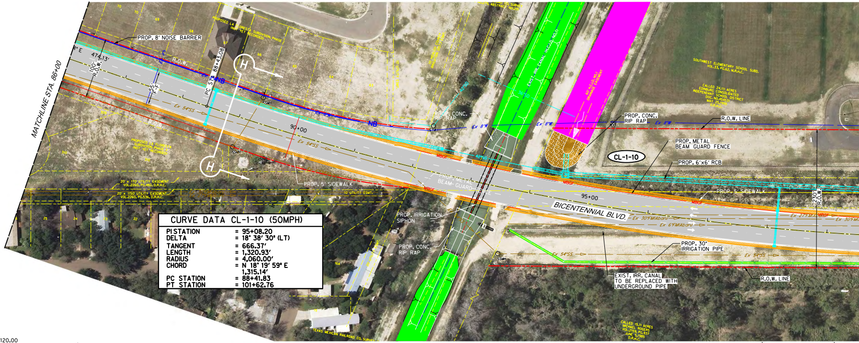
4'

BEAM GUARD FENCE
+92.54 TO

ACTED
(ASTM D-1557)
MOISTURE CONTENT.



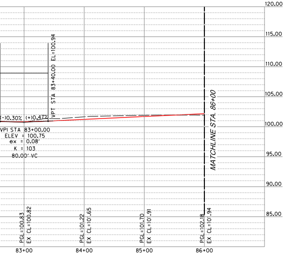
PT STA 83+68.95
100' R.O.W.
85+00
N 27° 39'
NB
MATCHLINE STA. 86+00
PROPOSED LA FLORESTA SUBDIVISION PHASE (NOT YET RECORDED)
R.O.W.



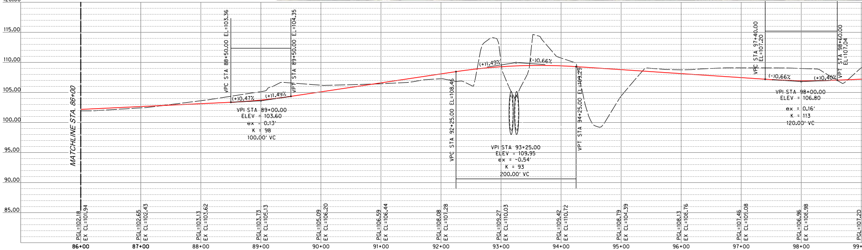
MATCHLINE STA. 86+00
PROP. 8' NOISE BARRIER
474.13'
100' R.O.W.
55' F-F
PC STA 88+41.83
R.O.W.
NB
90+00
95+00
BICENTENNIAL BLVD.
PROP. 5' SIDEWALK
PROP. METAL BEAM GUARD FENCE
PROP. CONC. RIP RAP
PROP. IRRIGATION SIPHON
PROP. 6'x6' RCB
CL-1-10
R.O.W. LINE
PROP. 30' IRRIGATION PIPE
EXIST. IRR. CANAL TO BE REPLACED WITH UNDERGROUND PIPE
20' x 170' UTILITY EASEMENT VOL.2260, PG.482, D.R.H.C.
20' x 1150' UTILITY EASEMENT VOL.2260, PG.536, D.R.H.C.
10' UTILITY ESMT.
SOUTHWEST ELEMENTARY SCHOOL SUBD. VOL.33, PG.62, M.R.H.C.
CALLED 24.11 ACRES EDINBURG CONSOLIDATED INDEPENDANT SCHOOL DISTRICT
CALLED 15.11 ACRES MICHAEL ROGERS
TEXAS MEXICAN RAILROAD CO. SURVEY
Ex 54'SS
Ex 8"W
Ex 30"PMIAbanI
Ex 6"PMIAbanI

CURVE DATA CL-1-10 (50MPH)

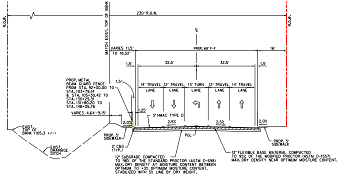
PI STATION = 95+08.20
DELTA = 18° 38' 30" (LT)
TANGENT = 666.37'
LENGTH = 1,320.93'
RADIUS = 4,060.00'
CHORD = N 18° 19' 59" E
1,315.14'
PC STATION = 88+41.83
PT STATION = 101+62.76



120.00
115.00
110.00
105.00
100.00
95.00
90.00
85.00
VPT STA 83+40.00 EL=100.94
(-)0.30%
(+)0.47%
VPI STA 83+00.00
ELEV = 100.75
ex = 0.08'
K = 103
80.00' VC
MATCHLINE STA. 86+00
PGL=100.83 EX CL=100.82
PGL=101.22 EX CL=101.65
PGL=101.70 EX CL=101.91
PGL=102.18 EX CL=101.94
83+00
84+00
85+00
86+00

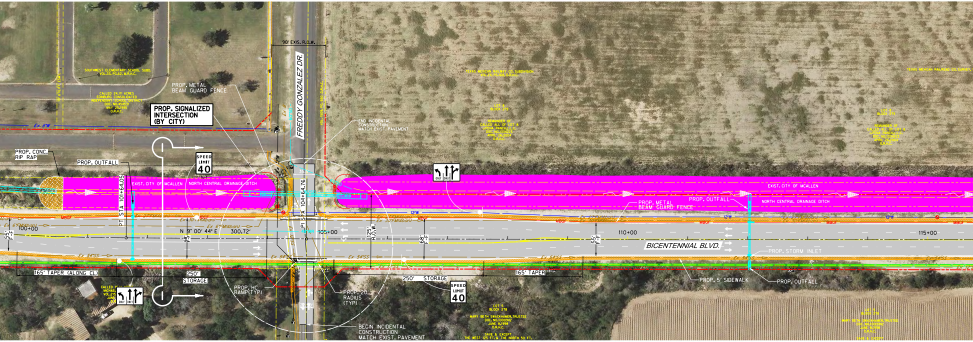


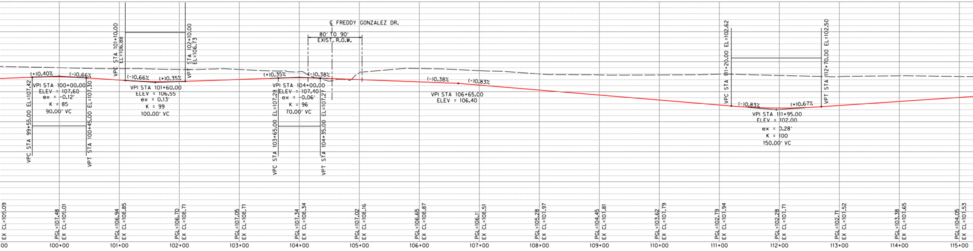
120.00
115.00
110.00
105.00
100.00
95.00
90.00
85.00
MATCHLINE STA. 86+00
VPC STA 88+50.00 EL=103.36
VPT STA 89+50.00 EL=104.35
(+)0.47%
(+)1.49%
VPI STA 89+00.00
ELEV = 103.60
ex = 0.13'
K = 98
100.00' VC
VPC STA 92+25.00 EL=108.46
VPT STA 94+25.00 EL=109.29
(+)1.49%
(-)0.66%
VPI STA 93+25.00
ELEV = 109.95
ex = -0.54'
K = 93
200.00' VC
VPC STA 97+40.00 EL=107.20
VPT STA 98+60.00 EL=107.04
(-)0.66%
(+)0.40%
VPI STA 98+00.00
ELEV = 106.80
ex = 0.16'
K = 113
120.00' VC
PGL=102.18 EX CL=101.94
PGL=102.65 EX CL=102.43
PGL=103.13 EX CL=103.62
PGL=103.73 EX CL=105.13
PGL=105.09 EX CL=106.20
PGL=106.59 EX CL=106.44
PGL=108.08 EX CL=107.28
PGL=109.27 EX CL=110.03
PGL=109.42 EX CL=110.72
PGL=108.79 EX CL=104.39
PGL=108.13 EX CL=106.76
PGL=107.46 EX CL=109.08
PGL=106.96 EX CL=106.98
PGL=107.20
86+00
87+00
88+00
89+00
90+00
91+00
92+00
93+00
94+00
95+00
96+00
97+00
98+00
99+

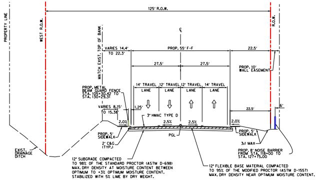

R.O.W.
230' R.O.W.
R.O.W.
MATCH EXIST. TOP OF BANK
℄
VARIES 11.5' TO 18.52'
PROP. 68' F-F
16'
1.5'
32.5'
32.5'
1.5'
1.5'
14' TRAVEL LANE
12' TRAVEL LANE
13' TURN LANE
12' TRAVEL LANE
14' TRAVEL LANE
PROP. METAL BEAM GUARD FENCE FROM STA. 92+00.00 TO STA. 103+79.14 & STA. 105+30.42 TO STA. 130+29.31 STA. 131+80.20 TO STA. 148+05.76
1.25'
VARIES 4.64'-9.15'
3" HMAC TYPE D
2.0%
2.5%
2.5%
2.0%
EXIST. TOP OF BANK (105.3 +/-)
PROP. 5' SIDEWALK
PGL
PROP. 5' SIDEWALK
2' C&G (TYP.)
EXIST. DRAINAGE DITCH
12" SUBGRADE COMPACTED TO 98% OF THE STANDARD PROCTOR (ASTM D-698) MAX. DRY DENSITY AT MOISTURE CONTENT BETWEEN OPTIMUM TO +3% OPTIMUM MOISTURE CONTENT. STABILIZED WITH 5% LIME BY DRY WEIGHT.
12" FLEXIBLE BASE MATERIAL COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAX. DRY DENSITY NEAR OPTIMUM MOISTURE CONTENT.

SECTION I-I

PROPOSED TYPICAL SECTION (68' F-F) FROM STA 99+84.14 TO STA 107+60.41

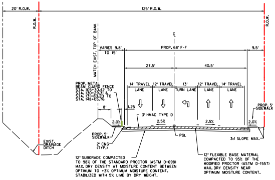

SOUTHWEST ELEMENTARY SCHOOL SUBD. VOL.33, PG.62, M.R.H.C.
10' UTILITY ESMT.
CALLED 24.111 ACRES EDINBURG CONSOLIDATED INDEPENDANT SCHOOL DISTRICT DOC. NO.454531 MAY 25,1995 O.R.H.C.
90' EXIS. R.O.W.
FREDDY GONZALEZ DR.
VOL. 1509, PG. 550 O.R.H.C.
PROP. METAL BEAM GUARD FENCE
PROP. SIGNALIZED INTERSECTION (BY CITY)
Ex 8"W
END INCIDENTAL CONSTRUCTION MATCH EXIST. PAVEMENT
TEXAS MEXICAN RAILWAY CO. SUBDIVISION VOL.24, PG.168, O.R.H.C.
LOT 8 BLOCK 279
REMAINDER OF CALLED ALL OF LOT 8 J.PENA RANCH, L.L.C. DOC. NO.1334223 APRIL 26,2004 O.R.H.C.
TEXAS MEXICAN RAILROAD CO. SURVEY
LOT 8 BLOCK 279
REMAINDER OF CALLED ALL OF LOT 8 J.PENA RANCH, L.L.C. DOC. NO.1334223 APRIL 26,2004 O.R.H.C.
PROP. CONC. RIP RAP
PROP. OUTFALL
SPEED LIMIT 40
ONLY ONLY
EXIST. CITY OF MCALLEN NORTH CENTRAL DRAINAGE DITCH
PT STA 101+64.05
PI STA 104+64.76
35.5'
60"SD
12"W
MBGF
Ex 27"FM(Aban)
Ex 30"FM(Aban)
Ex 6"FM(Aban)
100+00
N 9° 00' 44" E 300.72'
55' F-F
68' F-F
48"RR
105+00
125' R.O.W.
68' F-F
110+00
55' F-F
115+00
BICENTENNIAL BLVD.
EXIST. CITY OF MCALLEN
NORTH CENTRAL DRAINAGE DITCH
PROP. OUTFALL
PROP. METAL BEAM GUARD FENCE
PROP. STORM INLET
Ex 54"SS
Ex 12"SS
165' TAPER (ALONG CL)
250' STORAGE
250' STORAGE
165' TAPER
PROP. HC RAMP(TYP)
PROP. 20' RADIUS (TYP)
PROP. 5' SIDEWALK
PROP. OUTFALL
SPEED LIMIT 40
ONLY ONLY
BEGIN INCIDENTAL CONSTRUCTION MATCH EXIST. PAVEMENT
LOT 5 BLOCK 278
MARY BETH SWACKHAMER, TRUSTEE DOC. NO.1000942 JUNE 8,1998 O.R.H.C.
SAVE & EXCEPT THE WEST 125 FT. & THE NORTH 50 FT.
LOT 5 BLOCK 278
MARY BETH SWACKHAMER, TRUSTEE DOC. NO.1000942 JUNE 8,1998 O.R.H.C.
SAVE & EXCEPT


℄ FREDDY GONZALEZ DR.
80' TO 90' EXIST. R.O.W.
VPC STA 99+55.00 EL=107.42
VPT STA 100+45.00 EL=107.30
(+)0.40%
(-)0.66%
VPI STA 100+00.00
ELEV = 107.60
ex = -0.12'
K = 85
90.00' VC
VPC STA 101+10.00 EL=106.88
VPT STA 102+10.00 EL=106.73
(-)0.66%
(+)0.35%
VPI STA 101+60.00
ELEV = 106.55
ex = 0.13'
K = 99
100.00' VC
VPC STA 103+65.00 EL=107.28
VPT STA 104+35.00 EL=107.27
(+)0.35%
(-)0.38%
VPI STA 104+00.00
ELEV = 107.40
ex = -0.06'
K = 96
70.00' VC
(-)0.38%
(-)0.83%
VPI STA 106+65.00
ELEV = 106.40
VPC STA 111+20.00 EL=102.62
VPT STA 112+70.00 EL=102.50
(-)0.83%
(+)0.67%
VPI STA 111+95.00
ELEV = 102.00
ex = 0.28'
K = 100
150.00' VC
EX CL=109.09
PGL=107.48 EX CL=109.01
PGL=106.94 EX CL=108.85
PGL=106.70 EX CL=108.71
PGL=107.05 EX CL=108.71
PGL=107.34 EX CL=108.34
PGL=107.02 EX CL=108.16
PGL=106.65 EX CL=108.87
PGL=106.11 EX CL=108.51
PGL=105.28 EX CL=107.97
PGL=104.45 EX CL=107.81
PGL=103.62 EX CL=107.79
PGL=102.79 EX CL=107.94
PGL=102.28 EX CL=107.71
PGL=102.71 EX CL=107.52
PGL=103.38 EX CL=107.65
PGL=104.05 EX CL=107.53
00
100+00
101+00
102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00
110+00
111+00
112+00
113+00
114+00
115+00


PROPERTY LINE
WEST R.O.W.
125' R.O.W.
R.O.W.
MATCH EXIST. TOP OF BANK
℄
VARIES 14.4' TO 22.3'
PROP. 55' F-F
22.5'
27.5'
27.5'
PROP. 10' WALL EASEMENT
PROP. METAL BEAM GUARD FENCE STA. 105+30.42 TO STA. 130+29.31
14' TRAVEL LANE
12' TRAVEL LANE
12' TRAVEL LANE
14' TRAVEL LANE
VARIES 8.15' TO 15.38'
1.25'
22.5'
6'
3" HMAC TYPE D
2.0%
2.5%
2.5%
2.0%
PROP. 5' SIDEWALK
PGL
PROP. 5' SIDEWALK
2' C&G (TYP.)
3:1 MAX
EXIST. DRAINAGE DITCH
PROP. 8' NOISE BARRIER FROM STA. 118+00 TO STA. 127+75.00
12" SUBGRADE COMPACTED TO 98% OF THE STANDARD PROCTOR (ASTM D-698) MAX. DRY DENSITY AT MOISTURE CONTENT BETWEEN OPTIMUM TO +3% OPTIMUM MOISTURE CONTENT. STABILIZED WITH 5% LIME BY DRY WEIGHT.
12" FLEXIBLE BASE MATERIAL COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAX. DRY DENSITY NEAR OPTIMUM MOISTURE CONTENT.

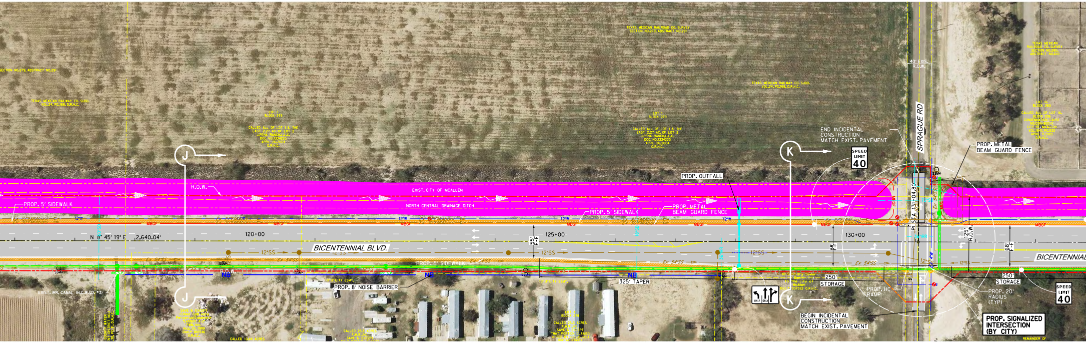
SECTION J-J

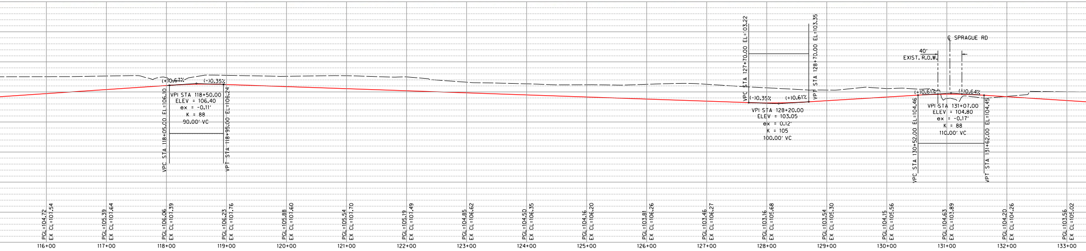
PROPOSED TYPICAL SECTION (55' F-F) FROM STA 107+60.41 TO STA 124+74.33

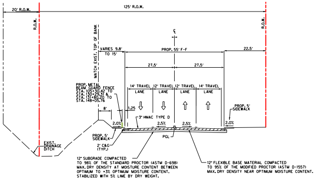

20' R.O.W.
125' R.O.W.
R.O.W.
R.O.W.
MATCH EXIST. TOP OF BANK
℄
VARIES 9.8' TO 15'
PROP. 68' F-F
9.5'
27.5'
40.5'
PROP. METAL BEAM GUARD FENCE STA. 105+30.42 TO STA. 130+29.31 & STA. 131+80.20 TO STA. 148+05.76
14' TRAVEL LANE
12' TRAVEL LANE
13' TURN LANE
12' TRAVEL LANE
14' TRAVEL LANE
8'
1.25
3" HMAC TYPE D
PROP. 5' SIDEWALK
2.0%
2.5%
2.5%
2.0%
PROP. 5' SIDEWALK
PGL
3:1 SLOPE MAX.
2' C&G (TYP.)
EXIST. DRAINAGE DITCH
12" SUBGRADE COMPACTED TO 98% OF THE STANDARD PROCTOR (ASTM D-698) MAX. DRY DENSITY AT MOISTURE CONTENT BETWEEN OPTIMUM TO +3% OPTIMUM MOISTURE CONTENT. STABILIZED WITH 5% LIME BY DRY WEIGHT.
12" FLEXIBLE BASE MATERIAL COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAX. DRY DENSITY NEAR OPTIMUM MOISTURE CONTENT.

SECTION K-K

PROPOSED TYPICAL SECTION (68' F-F) FROM STA 124+74.33 TO STA 134+10.40

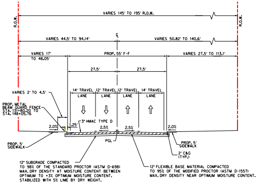

TEXAS MEXICAN RAILROAD CO. SURVEY SECTION NO.279, ABSTRACT NO.291
TEXAS MEXICAN RAILWAY CO. SUBD. VOL.24, PG.168, D.R.H.C.
LOT 1 BLOCK 279
CALLED ALL OF LOT 1 & THE EAST 2.27 AC. OF LOT 2 J.PENA RANCH, L.L.C. DOC. NO.1334223 APRIL 26, 2004 O.R.H.C.
LOT 16 BLOCK 280
CALLED ALL OF LOT 16, BLOCK 296 CONDEMNATION CAUSE NO.CON-900-E CITY OF McALLEN VOL.1841, PG.532 APRIL 11, 1983 D.R.H.C.
40' EXIS. R.O.W.
SPRAGUE RD
END INCIDENTAL CONSTRUCTION MATCH EXIST. PAVEMENT
PROP. METAL BEAM GUARD FENCE
J
K
SPEED LIMIT 40
R.O.W.
PROP. OUTFALL
EXIST. CITY OF McALLEN
NORTH CENTRAL DRAINAGE DITCH
PROP. 5' SIDEWALK
PROP. 5' SIDEWALK
PROP. METAL BEAM GUARD FENCE
MBGF
12"W
N 8° 45' 19" E 2,640.04'
120+00
125+00
130+00
55' F-F
68' F-F
68' F-F
125' R.O.W.
PL STA 131+04.80
BICENTENNIAL BLVD.
BICENTENNIAL
12"SS
Ex 54"SS
36"IRR
18"SD
72"SD
SSMH
R.O.W.
NB
PROP. 5' SIDEWALK
PROP. 8' NOISE BARRIER
325' TAPER
250' STORAGE
250' STORAGE
ONLY ONLY
PROP. HC RAMP
PROP. 20' RADIUS (TYP)
BEGIN INCIDENTAL CONSTRUCTION MATCH EXIST. PAVEMENT
PROP. SIGNALIZED INTERSECTION (BY CITY)
EXIST. IRR. CANAL
REMAINDER OF




20' R.O.W.
125' R.O.W.
R.O.W.
R.O.W.
MATCH EXIST. TOP OF BANK
VARIES 9.8' TO 15'
PROP. 55' F-F
22.5'
27.5'
27.5'
14' TRAVEL LANE
12' TRAVEL LANE
12' TRAVEL LANE
14' TRAVEL LANE
PROP. METAL BEAM GUARD FENCE STA. 135+30.42 TO STA. 136+81.16 & STA. 131+80.20 TO STA. 148+05.76
8'
1.25'
3" HMAC TYPE D
2.0%
2.5%
2.5%
2.0%
PROP. 5' SIDEWALK
EXIST. DRAINAGE DITCH
PROP. 5' SIDEWALK
2' C&G (TYP.)
PGL
12" SUBGRADE COMPACTED TO 98% OF THE STANDARD PROCTOR (ASTM D-698) MAX. DRY DENSITY AT MOISTURE CONTENT BETWEEN OPTIMUM TO +3% OPTIMUM MOISTURE CONTENT. STABILIZED WITH 5% LIME BY DRY WEIGHT.
12" FLEXIBLE BASE MATERIAL COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAX. DRY DENSITY NEAR OPTIMUM MOISTURE CONTENT.

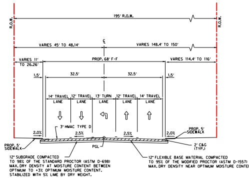
SECTION L-L

PROPOSED TYPICAL SECTION (68' F-F) FROM STA 134+10.40 TO STA 145+38.91


R.O.W.
VARIES 145' TO 195' R.O.W.
R.O.W.
VARIES 44.5' TO 94.14'
VARIES 50.82' TO 140.6'
VARIES 17' TO 48.05'
PROP. 55' F-F
VARIES 27.5' TO 113.1'
27.5'
27.5'
VARIES 2' TO 4.5'
14' TRAVEL LANE
12' TRAVEL LANE
12' TRAVEL LANE
14' TRAVEL LANE
PROP. METAL BEAM GUARD FENCE STA. 131+80.20 TO STA. 148+05.76
1.25'
3" HMAC TYPE D
2.0%
2.5%
2.5%
2.0%
PGL
PROP. 5' SIDEWALK
PROP. 5' SIDEWALK
2' C&G (TYP.)
12" SUBGRADE COMPACTED TO 98% OF THE STANDARD PROCTOR (ASTM D-698) MAX. DRY DENSITY AT MOISTURE CONTENT BETWEEN OPTIMUM TO +3% OPTIMUM MOISTURE CONTENT. STABILIZED WITH 5% LIME BY DRY WEIGHT.
12" FLEXIBLE BASE MATERIAL COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAX. DRY DENSITY NEAR OPTIMUM MOISTURE CONTENT.

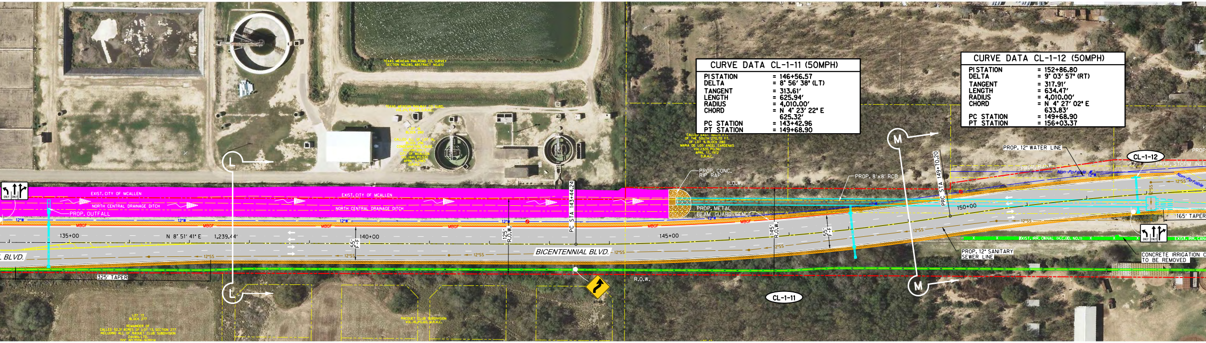
SECTION M-M

PROPOSED TYPICAL SECTION (55' F-F) FROM STA 145+38.91 TO STA 153+26.11


R.O.W.
195' R.O.W.
R.O.W.
VARIES 45' TO 48.14'
VARIES 148.4' TO 150'
VARIES 11' TO 26.26'
PROP. 68' F-F
VARIES 114.4' TO 116'
1.5'
32.5'
32.5'
1.5'
14' TRAVEL LANE
12' TRAVEL LANE
13' TURN LANE
12' TRAVEL LANE
14' TRAVEL LANE
3" HMAC TYPE D
2.0%
2.5%
2.5%
2.0%
PROP. 5' SIDEWALK
PROP. 5' SIDEWALK
PGL
2' C&G (TYP.)
12" SUBGRADE COMPACTED TO 98% OF THE STANDARD PROCTOR (ASTM D-698) MAX. DRY DENSITY AT MOISTURE CONTENT BETWEEN OPTIMUM TO +3% OPTIMUM MOISTURE CONTENT. STABILIZED WITH 5% LIME BY DRY WEIGHT.
12" FLEXIBLE BASE MATERIAL COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D-1557) MAX. DRY DENSITY NEAR OPTIMUM MOISTURE CONTE

SECTION N-N

PROPOSED TYPICAL SECTION (68' F-F) FROM STA 153+26.11 TO STA 157+42.07



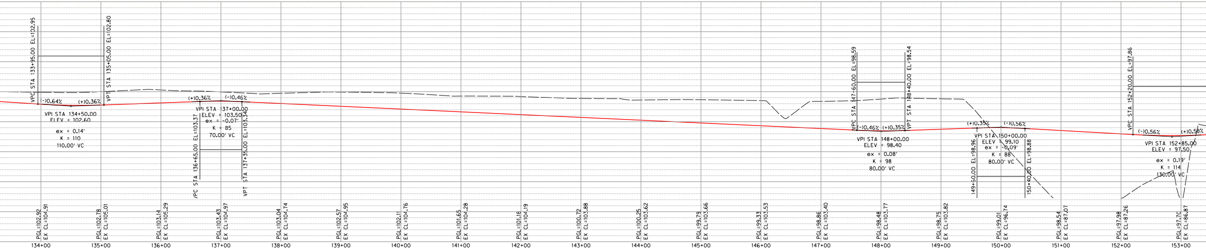
CURVE DATA CL-1-11 (50MPH)

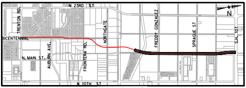
PI STATION = 146+56.57
DELTA = 8° 56' 38" (LT)
TANGENT = 313.61'
LENGTH = 625.94'
RADIUS = 4,010.00'
CHORD = N 4° 23' 22" E
625.32'
PC STATION = 143+42.96
PT STATION = 149+68.90

CURVE DATA CL-1-12 (50MPH)

PI STATION = 152+86.80
DELTA = 9° 03' 57" (RT)
TANGENT = 317.91'
LENGTH = 634.47'
RADIUS = 4,010.00'
CHORD = N 4° 27' 02" E
633.83'
PC STATION = 149+68.90
PT STATION = 156+03.37

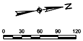
TEXAS MEXICAN RAILROAD CO. SURVEY SECTION NO.280, ABSTRACT NO.610
CALLED EAST 160.15 FT. OF THE SOUTH 270.70 FT. OF LOT 9, BLOCK 280 MARIA DE LOS ANGEL CARDENAS VOL.1320, PG.361 APRIL 17, 1972 D.R.H.C.
L
M
PROP. CONC. RIP RAP
PROP. 8'x8' RCB
PRC STA 149+70.20
PROP. 12" WATER LINE
PROP. R.O.W.
Non-Potable W
CL-1-12
PROP. STORM INLE
165' TAPER
EXIST. CITY OF MCALLEN
NORTH CENTRAL DRAINAGE DITCH
PROP. OUTFALL
12"W
MBGF
135+00
N 8° 51' 41" E 1,239.44'
55' F-F
140+00
125' R.O.W.
PC STA 143+44.24
145+00
145' R.O.W.
PROP. METAL BEAM GUARD FENCE
150+00
12"SS
BICENTENNIAL BLVD.
325' TAPER
R.O.W.
CL-1-11
PROP. 12" SANITARY SEWER LINE
EXIST. IRR. CANAL (H.C.I.D. NO.1)
CONCRETE IRRIGATION C TO BE REMOVED
LOT 13 BLOCK 277
REMAINDER OF CALLED 52.31 ACRES OF LOT 13, SECTION 277 INCLUDING ALL OF RACQUET CLUB SUBDIVISION
RACQUET CLUB SUBDIVISION VOL.16, PG.60, M.R.H.C.




N 23RD ST
TRENTON RD.
BICENTENNIAL
N. MAIN ST.
AUBURN AVE.
FRONTERA RD.
NORTHGATE
FREDDY GONZALEZ
SPRAGUE ST
S.H. 107
N 10TH ST
N

VICINITY MAP
NTS

NT.

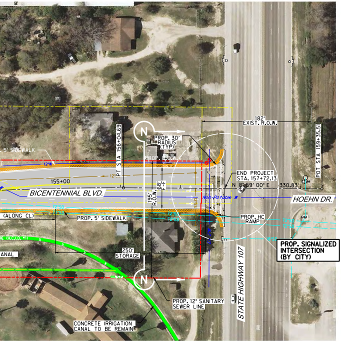

N
0
30
60
90
120

SCALE: 1"=60'

DESIGN DATA
BICENTENNIAL BOULEVARD

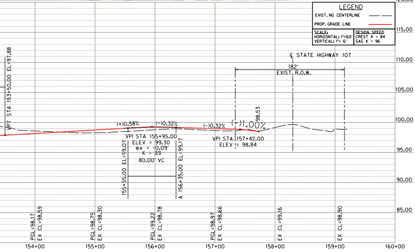
PROJECT LIMITS	:	FROM TRENTON ROAD TO SH0107
CSJ	:	0921-02-252
NET LENGTH	:	2.86 MILES
FUNCTIONAL CLASSIFICATION	:	MINOR ARTERIAL (56' B-B)
TRAFFIC DATA	:	ADT (2016) PENDING TRAFFIC STUDY ADT (2036) PENDING TRAFFIC STUDY
DESIGN SPEED	:	50 MPH
e MAX	:	"NC"
DESIGN CRITERIA	:	TxDOT ROADWAY DESIGN MANUAL CHAPTER 3, SECTION 2

CROSSROADS POSTED SPEED TABLE	
TRENTON ROAD	45 MPH
AUBURN AVENUE	30 MPH
FRONTERA ROAD	30 MPH
NORTHGATE LANE	30 MPH
FREDDY GONZALEZ DRIVE	25 MPH
SPRAGUE ROAD	30 MPH
SH0107	55 MPH


5' SIDEWALK
12"W
12"SS
155+00
PT STA 156+04.69
PROP. 30' RADIUS (TYP)
PROP. R.O.W.
N
BICENTENNIAL BLVD.
195' R.O.W.
68' F-F
182' EXIST. R.O.W.
END PROJECT STA. 157+72.13
N 8° 59' 00" E
330.83'
POT STA 159+35.51
STMH
Non-Potable W
HOEHN DR.
(ALONG CL)
PROP. 5' SIDEWALK
72"SD
18"SD
PROP. HC RAMP
PROP. SIGNALIZED INTERSECTION (BY CITY)
ANAL
250' STORAGE
N
PROP. 12" SANITARY SEWER LINE
STATE HIGHWAY 107
CONCRETE IRRIGATION CANAL TO BE REMAIN

LEGEND

PROPOSED	EXISTING	
▬	▭	INLET
●	○	MANHOLE
	⊕	GATE VALVE & BOX
	✣	FIRE HYDRANT
— 12"SS —	— — SS — —	SAN. SEWER
— 12"W —	- - - W - - -	WATER
▬	— — SD — —	STORM SEWER
▬	- - - - - - -	
— NB —		
— MBGF —		METAL BEAM GUARD FENCE
	🟩	IRRIG. CANAL
	🟪	DRAINAGE DITCH
- - - ——	- - - ——	R.O.W.
	⟶	DRAINAGE FLOW
■	——	ASPHALT PAVEMENT
▨	▨	CONCRETE PAVEMENT
▨	▭	CONCRETE SIDEWALK
	⊙	TREE



BICENTENNIAL EXTENSION PROJECT
BOND 2013 STREET IMPROVEMENTS
McAllen, Texas

CITY OF McALLEN

HALFF
5000 WEST MILITARY, SUITE 100
McALLEN, TEXAS 78503
TEL (956) 664-0286
FAX (956) 664-0282
TBPE FIRM #F-312

ROBERT L. SAENZ
82072

NOT A BIDDING DOCUMENT

SCHEMATIC

FOR INTERIM REVIEW ONLY

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THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

ROBERT L. SAENZ, P.E. 82072, 05/03/18
TBPE FIRM #F-312

Project No.:	30469
Issued:	MAY 2018
Drawn By:	B.L.
Checked By:	R.S.
Scale:	AS NOTED

Sheet Title

BICENTENNIAL
SCHEMATIC

ROLL 2 OF 2
Sheet Number