7/24/2018

LJA Engineering, Inc.
FRM-F-1386

TEXAS DEPARTMENT OF TRANSPORTATION

© 2016

FROM: AVENUE D
TO: FM 1093

FM 723 SCHEMATIC

TEXAS DEPARTMENT OF TRANSPORTATION
HOUSTON DISTRICT

SCHEMATIC LAYOUT
FORT BEND COUNTY
FM 723

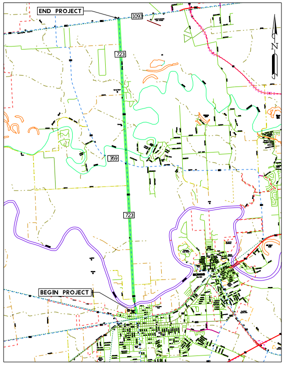
LIMITS : FROM AVENUE D
TO FM 1093
LENGTH = 9.23 MILES

AVENUE D TO BRAZOS RIVER BRIDGE
DESIGN SPEED : 35 MPH
FUNCTIONAL CLASS : URBAN MINOR ARTERIAL

BRAZOS RIVER BRIDGE TO FM 1093
DESIGN SPEED : 45 MPH
FUNCTIONAL CLASS : URBAN MINOR ARTERIAL

CURRENT ADT : 17,500 (2016)
PROJECTED ADT : 28,500 (2036)
PROJECTED ADT : 29,850 (2040)

LOCATION MAP



END PROJECT
1093
N
723
359
723
BEGIN PROJECT

SCALE: 0 1 MI 2 MI

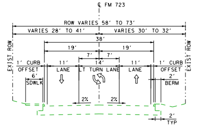
2016 (XXXX) ADT
2036 (XXXX) ADT
2040 (XXXX) ADT

← XXXX - 2016 (XXXX-2040)
XXXX - 2016 (XXXX-2040) →

NOT A BIDDING DOCUMENT
ROBERT T. MCBRIDE, P.E.
111566
TEXAS REGISTRATION NUMBER
7/24/2018
DATE

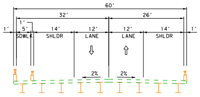
LEGEND

LEGEND	SYMBOLOGY	WEIGHT	COLOR
EDGE OF PAVEMENT/ FACE OF CURB	───	2	0
RETAINING WALL	───	6	3
STRIPING	───	2	0
PROP ROW	▨	5	16
EXISTING ROW	▨	1	16
PROPERTY LINES	─ · ─ · ─	1	6
EXISTING LANE DIRECTIONAL INDICATOR	⇨	1	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	1	0
PROPOSED PAVEMENT	🟦		1
PROPOSED BRIDGE STRUCTURE	🟥		3
PROPOSED RAMP/ACCESS RD PAVEMENT	🟩		2
PROPOSED RAISED MEDIAN	⬛		236
PROPOSED SIDEWALK	🟪		5
PROPOSED DETENTION POND	▨		
ZONE AE (100 YR FLOODPLAIN)	🟦		



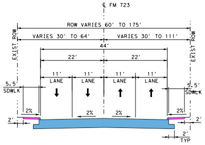
℄ FM 723
ROW VARIES 58' TO 73'
VARIES 28' TO 41'
VARIES 30' TO 32'
38'
19'
19'
7'
7'
EXIST ROW
1' CURB OFFSET
6' SDWLK
11' LANE
14' LT TURN LANE
11' LANE
1' CURB OFFSET
2' BERM
EXIST ROW
2%
2%
2' TYP

EXISTING TYPICAL SECTION
FROM AVE D TO SOUTH
OF THE BRAZOS RIVER BRIDGE



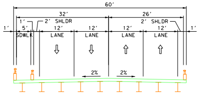
60'
32'
26'
1'
1'
5' SDWLK
14' SHLDR
12' LANE
12' LANE
14' SHLDR
1'
2%
2%

EXISTING TYPICAL SECTION
AT BRAZOS RIVER BRIDGE



℄ FM 723
ROW VARIES 60' TO 175'
VARIES 30' TO 64'
VARIES 30' TO 111'
EXIST ROW
44'
22'
22'
11' LANE
11' LANE
11' LANE
11' LANE
EXIST ROW
5.5' SDWLK
5.5' SDWLK
2%
2%
2%
2%
2'
2'
2' TYP

PROPOSED TYPICAL SECTION A-A



60'
32'
26'
1'
2' SHLDR
5' SDWLK
12' LANE
12' LANE
12' LANE
12' LANE
2' SHLDR
1'
2%
2%

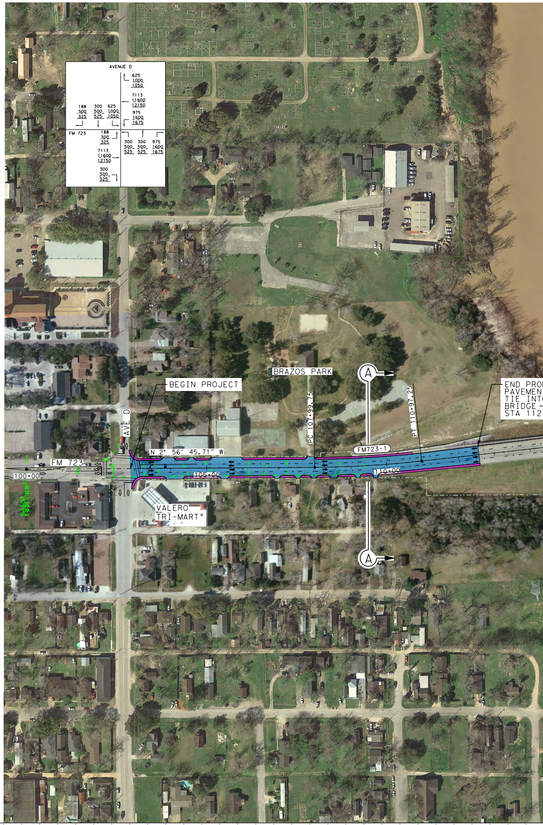
PROPOSED TYPICAL SECTION B-B

HORIZONTAL CURVE DATA

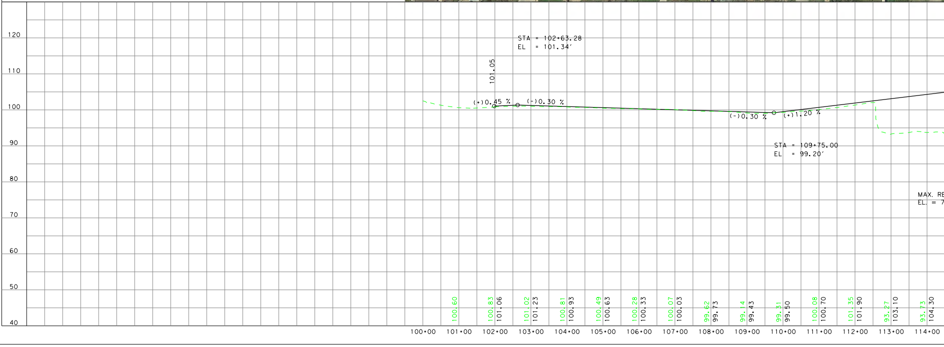
FM723-1

PI STATION = 109+48.64
DELTA = 5° 57' 00.00" (LT)
DEGREE OF CURVE = 2° 00' 00.00"
TANGENT = 148.88
LENGTH = 297.50
RADIUS = 2,864.79
PC STATION = 107+99.75
PT STATION = 110+97.25

FM 723 ← 8713(14875)
8713(14875) →



AVENUE D
625
1000
1050
7113
11600
12150
975
1600
1675
188
300
325
300
500
525
625
1000
1050
FM 723
188
300
325
7113
11600
12150
300
500
525
300
500
525
300
500
525
975
1600
1675
BRAZOS PARK
BEGIN PROJECT
A
A
END PRO
PAVEMEN
TIE INT
BRIDGE
STA 112
AVE D
PC 107+99.75
PT 110+97.25
N 2° 56' 45.71" W
FM723-1
FM 723
100+00
105+00
110+00
VALERO
TRI-MART



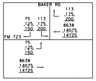
0' 50' 100' 200'
SCALE: 1"=100' - HORZ
1"=10' - VERT

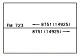
3:56:11 PM 7/24/2018
J:\8004\1424\CADD\SCHEMATIC\PUBLIC HEARING\8004-1424*Schem FINAL 01 - Public Hearing.dgn

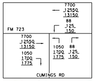
HORIZONTAL CURVE DATA

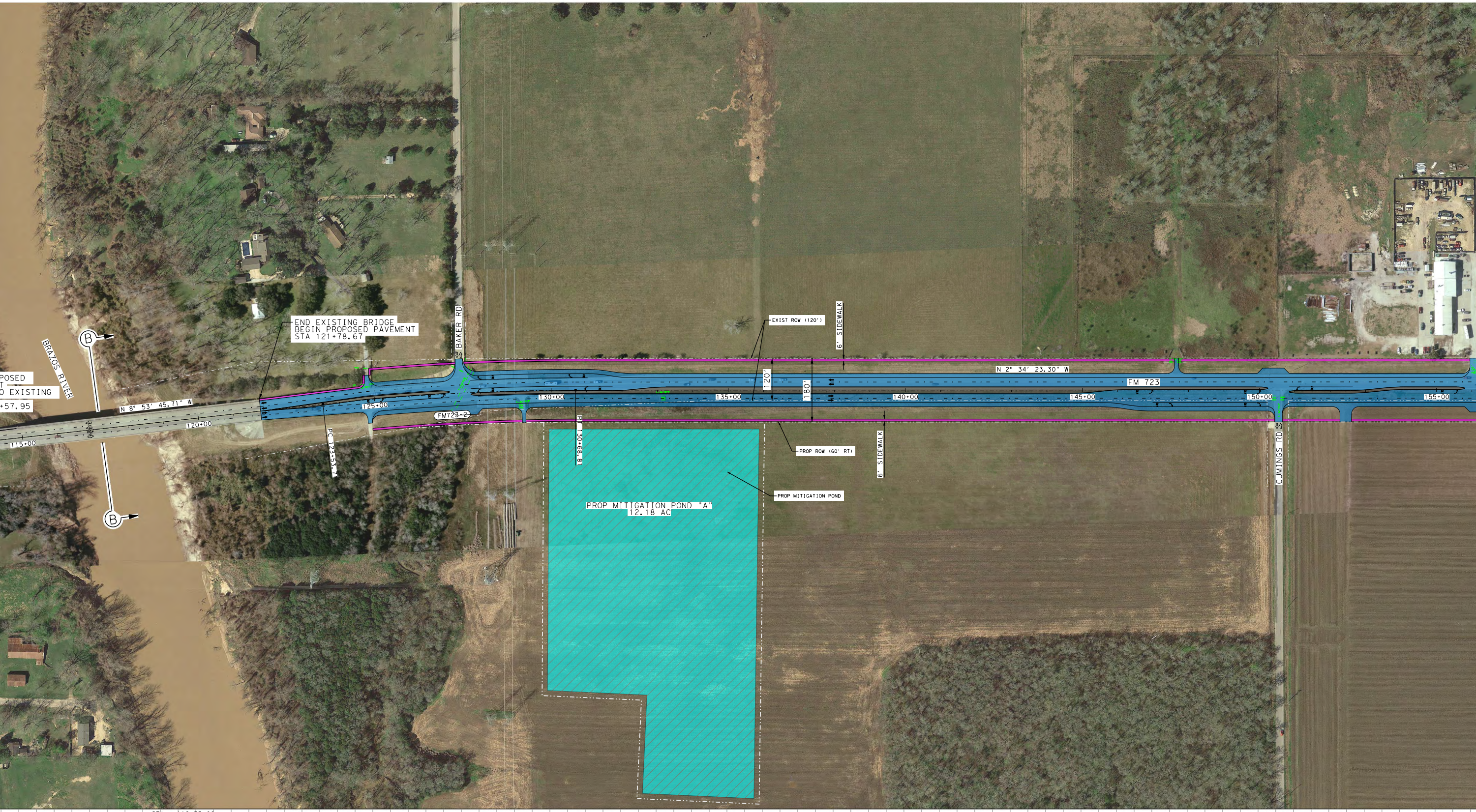
FM723-2

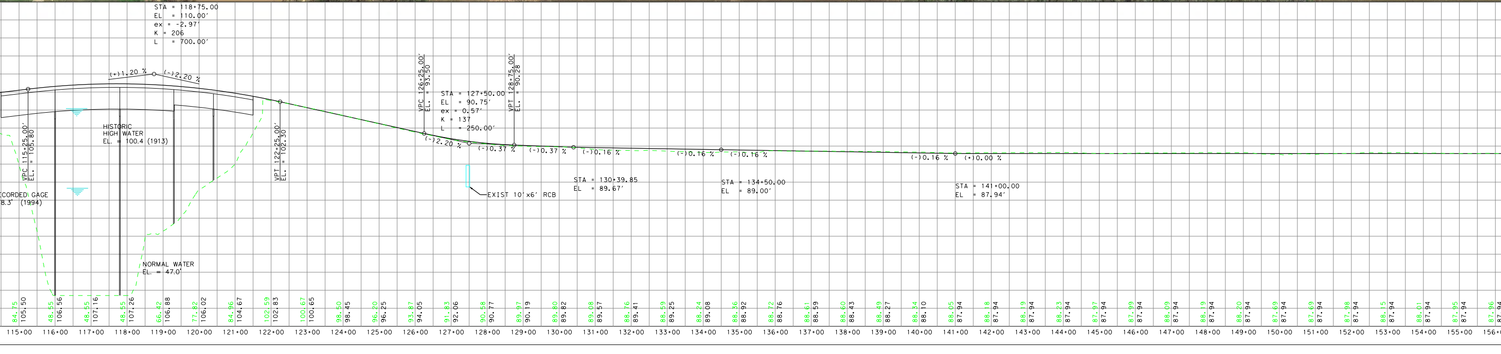
PI STATION = 127+11.62
DELTA = 6° 19′ 22.42" (RT)
DEGREE OF CURVE = 0° 53′ 03.10"
TANGENT = 357.91
LENGTH = 715.10
RADIUS = 6,480.00
PC STATION = 123+53.71
PT STATION = 130+68.81


BAKER RD
113
175
200
75
125
150
113
175
200
8638
14075
14725
FM 723
75
125
150
8638
14075
14725


FM 723
8751 (14925)
8751 (14925)


7700
12550
13150
88
125
150
FM 723
7700
12550
13150
1050
1700
1775
1050
1700
1775
88
125
150
CUMINGS RD

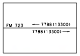

POSED
T
O EXISTING
+57.95
BRAZOS RIVER
B
B
115+00
120+00
N 8° 53′ 45.71" W
END EXISTING BRIDGE
BEGIN PROPOSED PAVEMENT
STA 121+78.67
BAKER RD
125+00
FM723-2
PC 123+53.71
130+00
PT 130+68.81
135+00
EXIST ROW (120′)
120′
180′
6′ SIDEWALK
140+00
N 2° 34′ 23.30" W
145+00
FM 723
150+00
155+00
PROP ROW (60′ RT)
6′ SIDEWALK
PROP MITIGATION POND
PROP MITIGATION POND "A"
12.18 AC
CUMINGS RD


STA = 118+75.00
EL = 110.00′
ex = -2.97′
K = 206
L = 700.00′
(+)1.20 %
(-)2.20 %
VPC 115+25.00′
EL. = 105.80
HISTORIC
HIGH WATER
EL. = 100.4 (1913)
CORDED GAGE
8.3′ (1994)
NORMAL WATER
EL. = 47.0′
VPT 122+25.00′
EL. = 102.30
VPC 126+25.00′
EL. = 93.50
STA = 127+50.00
EL = 90.75′
ex = 0.57′
K = 137
L = 250.00′
VPT 128+75.00′
EL. = 90.28
(-)2.20 %
(-)0.37 %
(-)0.37 %
(-)0.16 %
(-)0.16 %
(-)0.16 %
(-)0.16 %
(+)0.00 %
EXIST 10′×6′ RCB
STA = 130+39.85
EL = 89.67′
STA = 134+50.00
EL = 89.00′
STA = 141+00.00
EL = 87.94′
84.75 105.50
48.55 106.56
48.55 107.16
48.55 107.26
66.42 106.88
77.82 106.02
84.96 104.67
102.59 102.83
100.67 100.65
98.50 98.45
96.20 96.25
93.87 94.05
91.83 92.06
90.58 90.77
89.97 90.19
89.80 89.82
89.08 89.57
88.76 89.41
88.59 89.25
88.24 89.08
88.36 88.92
88.72 88.76
88.61 88.59
88.60 88.43
88.49 88.27
88.34 88.10
88.05 87.94
88.18 87.94
88.19 87.94
88.23 87.94
87.97 87.94
87.99 87.94
88.09 87.94
88.19 87.94
88.20 87.94
87.69 87.94
87.69 87.94
87.98 87.94
88.15 87.94
88.01 87.94
87.95 87.94
87.96 87.94
115+00
116+00
117+00
118+00
119+00
120+00
121+00
122+00
123+00
124+00
125+00
126+00
127+00
128+00
129+00
130+00
131+00
132+00
133+00
134+00
135+00
136+00
137+00
138+00
139+00
140+00
141+00
142+00
143+00
144+00
145+00
146+00
147+00
148+00
149+00
150+00
151+00
152+00
153+00
154+00
155+00
156+00

HORIZONTAL CURVE DATA

FM723-3

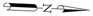
PI STATION = 159+98.61
DELTA = 3° 25′ 57.95" (LT)
DEGREE OF CURVE = 0° 53′ 03.10"
TANGENT = 194.18
LENGTH = 388.24
RADIUS = 6,480.00
PC STATION = 158+04.43
PT STATION = 161+92.67

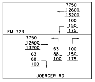

FM 723
← 7788(13300)
7788(13300) →

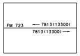
HORIZONTAL CURVE DATA

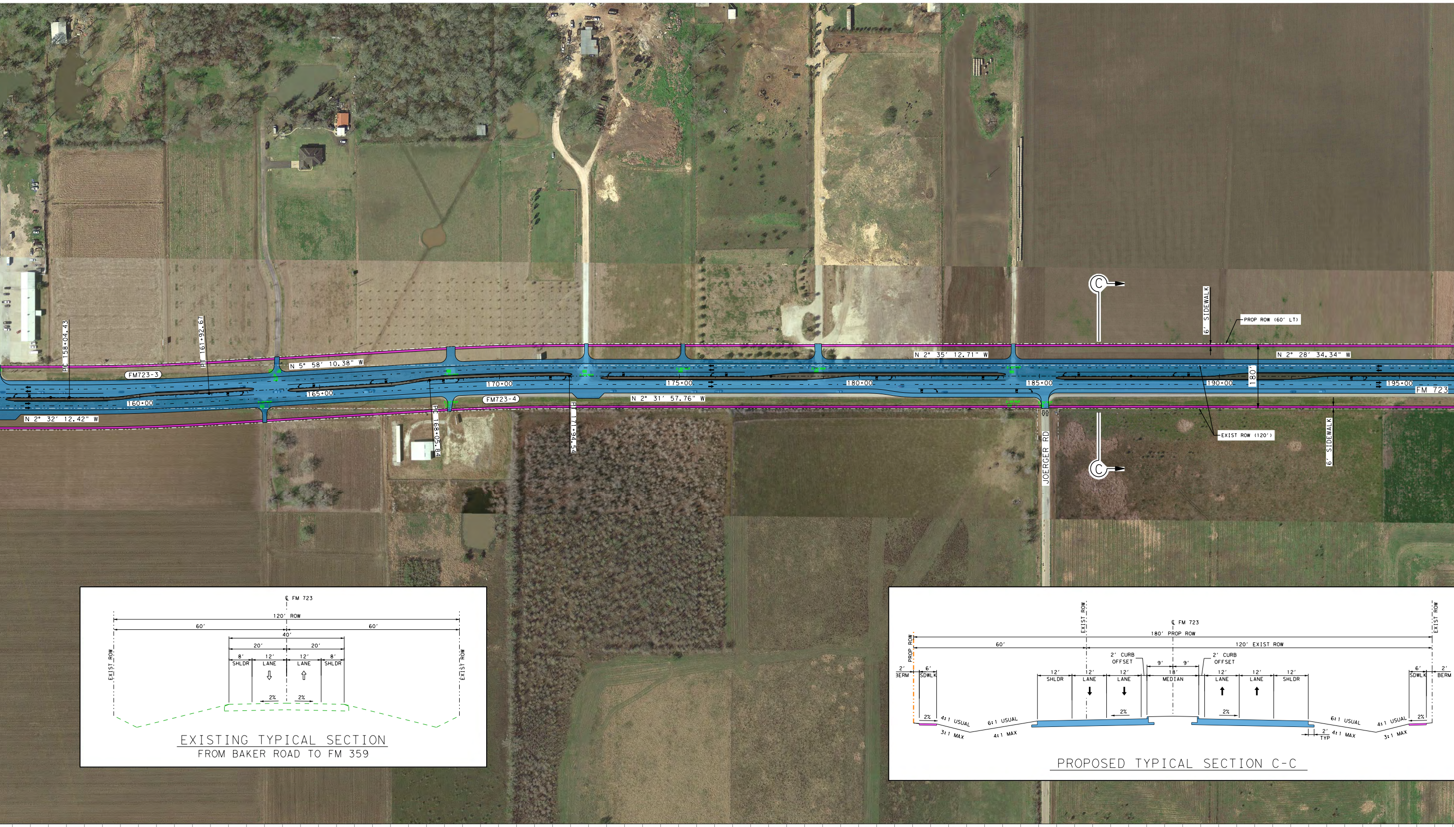
FM723-4

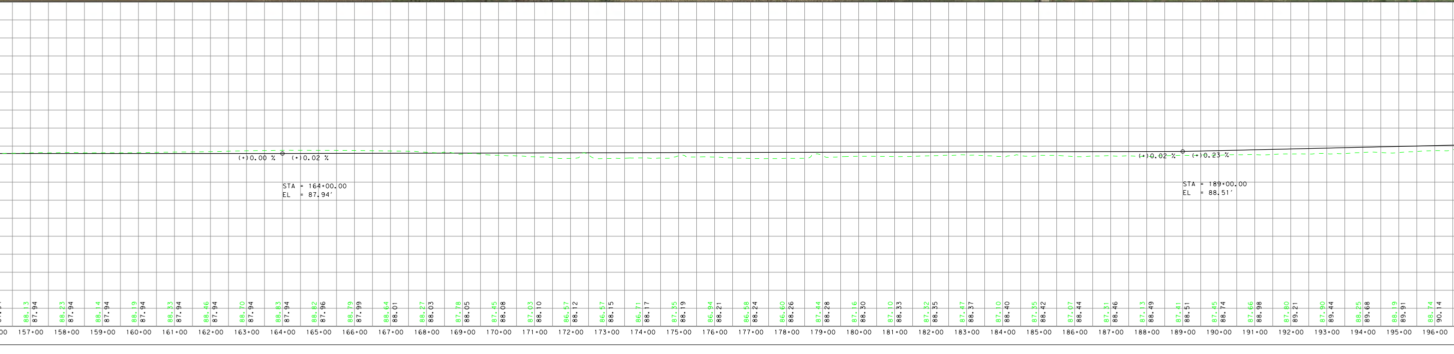
PI STATION = 170+00.25
DELTA = 3° 26′ 12.62" (RT)
DEGREE OF CURVE = 0° 53′ 03.10"
TANGENT = 194.41
LENGTH = 388.70
RADIUS = 6,480.00
PC STATION = 168+05.84
PT STATION = 171+94.54



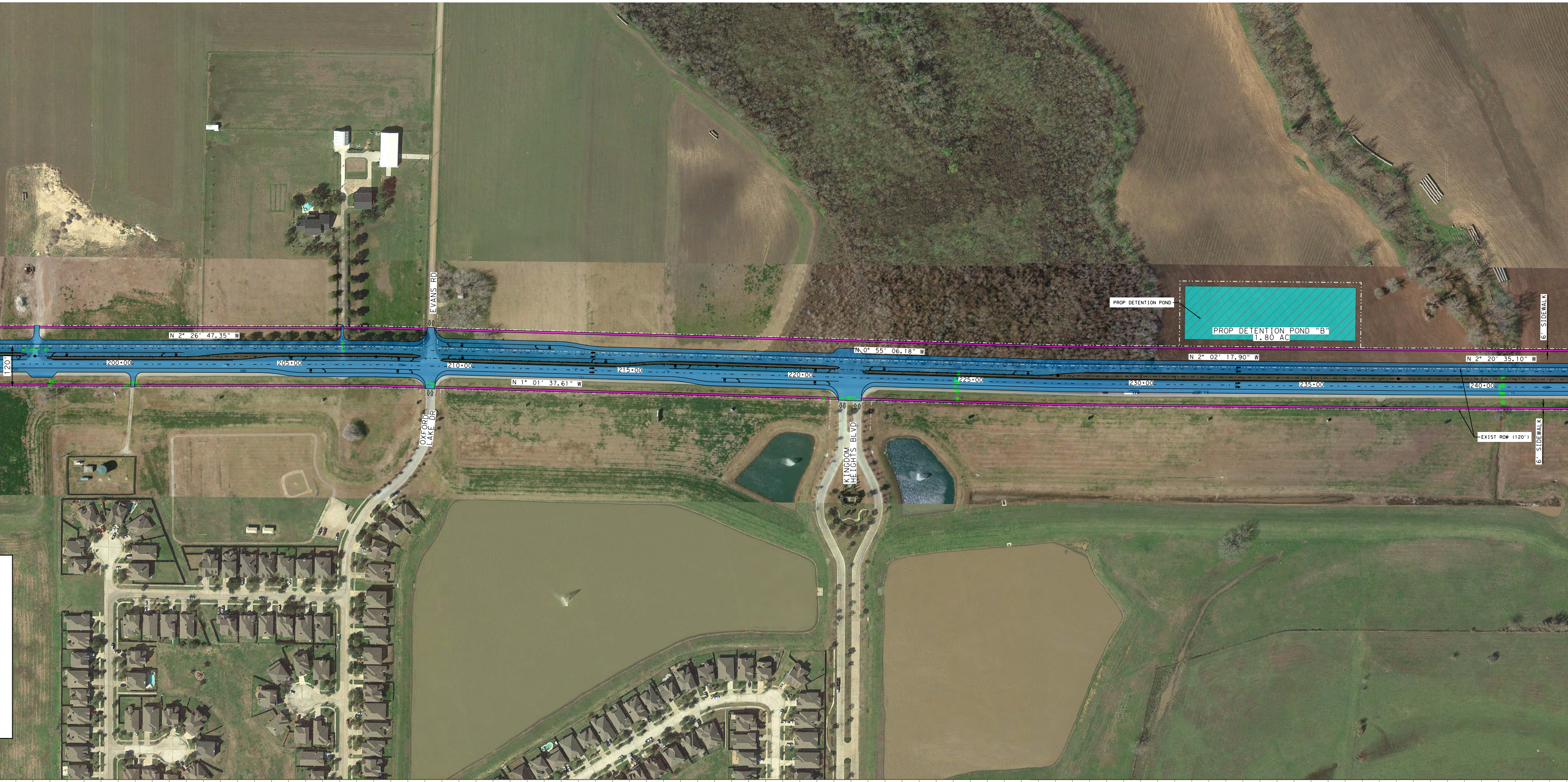

7750
12600
13200
100
150
175
FM 723
7750
12600
13200
63
88
100
63
88
100
100
150
175
JOERGER RD

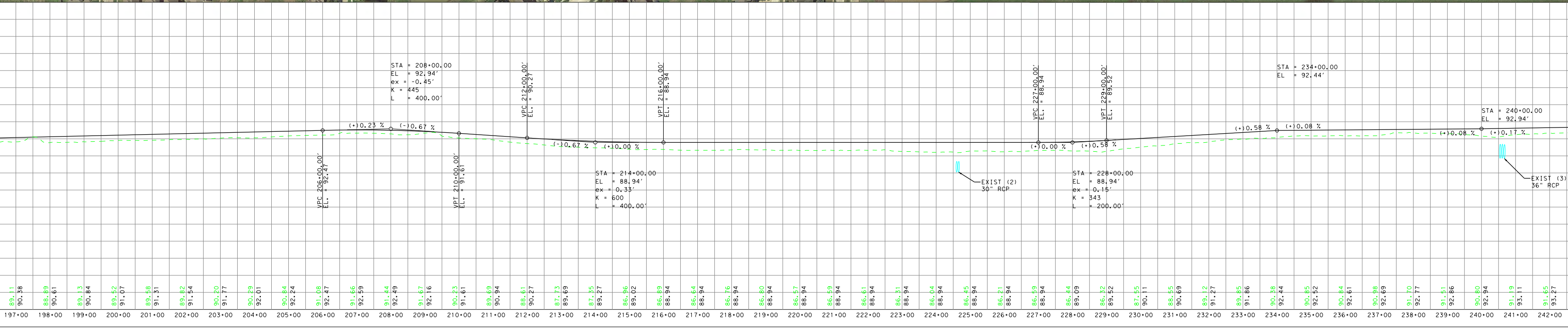

FM 723
← 7813(13300)
7813(13300) →

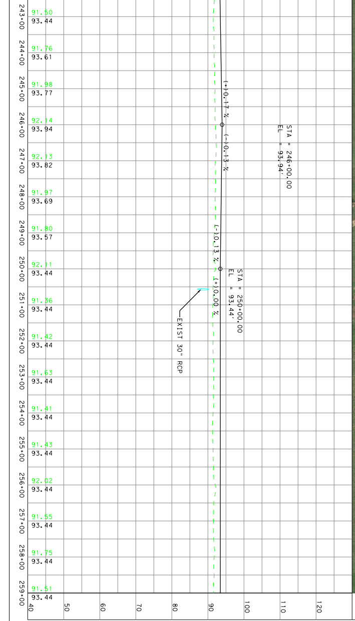

PC 158+04.43
PT 161+92.67
FM723-3
N 5° 58′ 10.38" W
160+00
165+00
N 2° 32′ 12.42" W
PC 168+05.84
170+00
FM723-4
PT 171+94.54
175+00
N 2° 31′ 57.76" W
180+00
N 2° 35′ 12.71" W
185+00
JOERGER RD
C
C
6′ SIDEWALK
PROP ROW (60′ LT)
N 2° 28′ 34.34" W
190+00
180′
195+00
FM 723
EXIST ROW (120′)
6′ SIDEWALK
℄ FM 723
120′ ROW
60′
60′
40′
20′
20′
8′
SHLDR
12′
LANE
12′
LANE
8′
SHLDR
EXIST ROW
EXIST ROW
2%
2%
EXISTING TYPICAL SECTION
FROM BAKER ROAD TO FM 359
EXIST ROW
℄ FM 723
180′ PROP ROW
PROP ROW
60′
120′ EXIST ROW
2′ CURB OFFSET
2′ CURB OFFSET
9′
9′
2′
BERM
6′
SDWLK
12′
SHLDR
12′
LANE
12′
LANE
18′
MEDIAN
12′
LANE
12′
LANE
12′
SHLDR
6′
SDWLK
2′
BERM
EXIST ROW
2%
2%
2%
2%
2%
4:1 USUAL
3:1 MAX
6:1 USUAL
4:1 MAX
6:1 USUAL
4:1 MAX
4:1 USUAL
3:1 MAX
2′
TYP
PROPOSED TYPICAL SECTION C-C

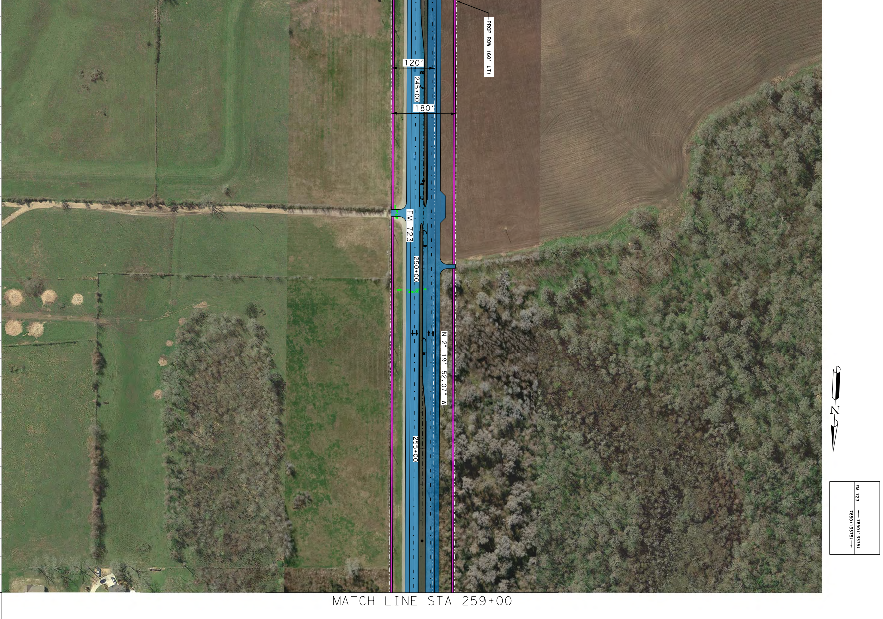


Station		
157+00	88.13	87.94
158+00	88.23	87.94
159+00	88.14	87.94
160+00	88.19	87.94
161+00	88.33	87.94
162+00	88.46	87.94
163+00	88.70	87.94
164+00	88.83	87.94
165+00	88.82	87.96
166+00	88.79	87.99
167+00	88.64	88.01
168+00	88.27	88.03
169+00	87.78	88.05
170+00	87.45	88.08
171+00	87.03	88.10
172+00	86.57	88.12
173+00	86.57	88.15
174+00	86.71	88.17
175+00	87.35	88.19
176+00	86.94	88.21
177+00	86.58	88.24
178+00	86.60	88.26
179+00	87.44	88.28
180+00	87.16	88.30
181+00	87.10	88.33
182+00	87.32	88.35
183+00	87.47	88.37
184+00	87.10	88.40
185+00	87.35	88.42
186+00	87.07	88.44
187+00	87.31	88.46
188+00	87.13	88.49
189+00	87.41	88.51
190+00	87.45	88.74
191+00	87.66	88.98
192+00	87.80	89.21
193+00	87.90	89.44
194+00	88.25	89.68
195+00	88.19	89.91
196+00	88.74	90.14


EVANS RD
N 2° 26' 47.35" W
120'
200+00
205+00
210+00
215+00
220+00
225+00
230+00
235+00
240+00
N 1° 01' 37.61" W
OXFORD LAKE DR
N 0° 55' 06.18" W
KINGDOM HEIGHTS BLVD
PROP DETENTION POND
PROP DETENTION POND "B"
1.80 AC
N 2° 02' 17.90" W
N 2° 20' 35.10" W
6' SIDEWALK
EXIST ROW (120')
6' SIDEWALK






PROP ROW (60' LT)
120'
180'
245+00
FM 723
250+00
255+00
N 2° 19' 52.07" W
N
FM 723 ← 7850(13375)
7850(13375) →
MATCH LINE STA 259+00

FM 723 SCHEMATIC

1
3

FROM: AVENUE D
TO: FM 1093

© 2016 TEXAS DEPARTMENT OF TRANSPORTATION

LJA Engineering, Inc.
FRN - F-1386

7/24/2018

7/24/2018 $TIME$
DGN$SPEC$