HOUSTON DISTRICT
PROJECT DEVELOPMENT

FM 2854

PRELIMINARY
SUBJECT TO CHANGE

ROADWAY: FM 2854
COUNTY: MONTGOMERY
LIMITS FROM: LOOP 336
LIMITS TO: I 45

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SCHEMATIC LAYOUT
FM 2854

COUNTY: MONTGOMERY
LIMITS FROM: LOOP 336
LIMITS TO: I 45
CSJ: 2744-01-011
DATE: 1/4/2016
APPROVED: 2/1/2016

NOT A BIDDING DOCUMENT
________________ ,P.E.
TBPE NO. ____________
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LEGEND

DESCRIPTION	SYMBOLOGY	WEIGHT	COLOR CODE
PROPOSED MAIN LANES	—	2	BLACK -0
PROPOSED TOLL LANES	—	2	PURPLE -60
PROPOSED FRONTAGE ROADS	—	5	BLUE -1
PROPOSED RAMPS	—	2	BLUE -1
PROPOSED DIRECT CONNECTOR	—	2	ORANGE -6
PROPOSED EMBANKMENT	—	2	RED -3
PROPOSED RETAINING WALL	—	6	RED -3
PROPOSED BRIDGE BENTS	—	2	RED -3
PROPOSED NOISE WALL	—	5	MAGENTA -37
PROPOSED SIDEWALKS	—	2	BLACK -0
PROPOSED STRIPING	▨	1	ORANGE -6
PROPOSED LANE INDICATOR	➡	1	BLACK -0
PROPOSED RIGHT-OF-WAY	—	5	BLACK -0
CONTROL OF ACCESS	—	2	RED -3
PLANIMETRIC	—	1	GREEN -2
EXISTING RIGHT-OF-WAY	—	1	BLACK -0
EXISTING ROADWAY	—	2	GREEN -2
EXISTING ROADWAY TO BE REMOVED	▨	1	BLACK -0
EXISTING LANE INDICATOR	⇨	1	BLACK -0
TRAFFIC COUNT YEAR 2015 DHV	<100>	1	BLACK -0
TRAFFIC COUNT YEAR 2040 DHV	(100)	1	BLACK -0

COLORFILL LEGEND

MAIN LANES	🟧
SIDEWALK	▭
BRIDGE	🟥

SCALE

0 100 200 300 400

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: URBAN MINOR ARTERIAL
MAIN LANE DESIGN SPEED: 45 MPH LOW SPEED URBAN

CURVE DATA

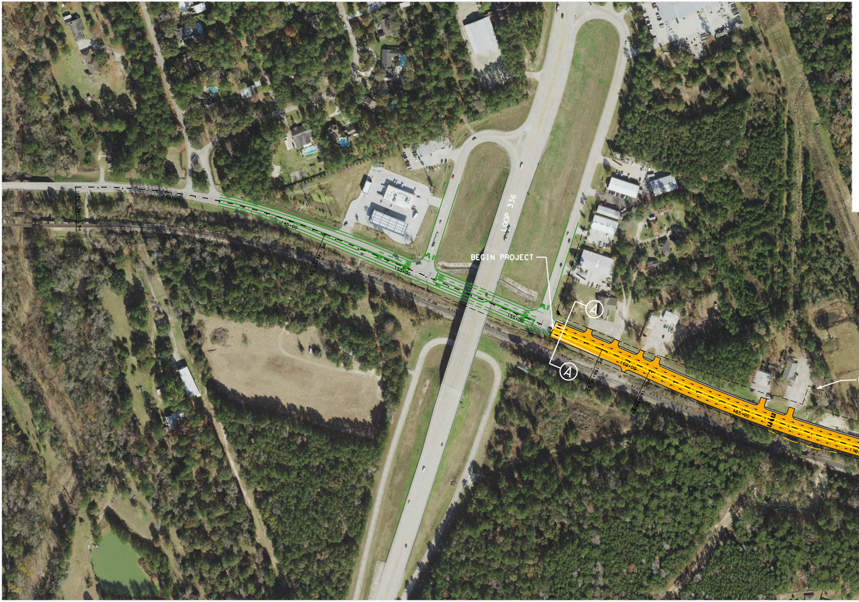
PI STATION = 141+37.53
DELTA = 23° 55' 14.87" (RT)
DEGREE OF CURVE = 2° 17' 30.59"
TANGENT = 529.59
LENGTH = 1,043.74
RADIUS = 2,500.00
PC STATION = 136+07.94
PT STATION = 146+51.68
NO SUPERELEVATION REQUIRED

PI STATION = 159+83.25
DELTA = 2° 08' 35.47" (RT)
DEGREE OF CURVE = 1° 00' 18.68"
TANGENT = 106.62
LENGTH = 213.21
RADIUS = 5,700.00
PC STATION = 158+76.63
PT STATION = 160+89.84
NO SUPERELEVATION REQUIRED

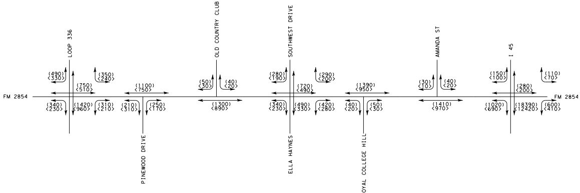
PI STATION = 173+42.89
DELTA = 24° 38' 35.88" (LT)
DEGREE OF CURVE = 0° 59' 55.61"
TANGENT = 1,253.05
LENGTH = 2,467.34
RADIUS = 5,736.58
PC STATION = 160+89.84
PT STATION = 185+57.18
NO SUPERELEVATION REQUIRED

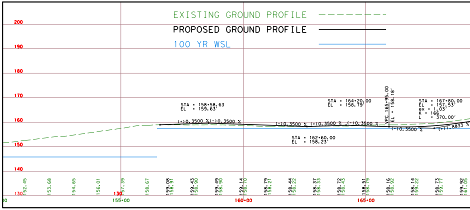
PI STATION = 263+54.41
DELTA = 2° 01' 03.90" (LT)
DEGREE OF CURVE = 0° 57' 17.75"
TANGENT = 105.66
LENGTH = 211.30
RADIUS = 6,000.00
PC STATION = 262+48.75
PT STATION = 264+60.05
NO SUPERELEVATION REQUIRED

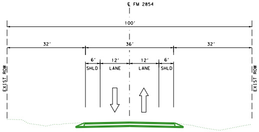
PI STATION = 265+63.68
DELTA = 1° 58' 44.51" (RT)
DEGREE OF CURVE = 0° 57' 17.75"
TANGENT = 103.63
LENGTH = 207.24
RADIUS = 6,000.00
PC STATION = 264+60.05
PT STATION = 266+67.29
NO SUPERELEVATION REQUIRED


LOOP 336
BEGIN PROJECT
140+00
145+00
150+00
155+00
160+00
165+00
PC 136+07.94
PT 146+51.68
PC 158+76.63
PRC 160+89.84
A
A

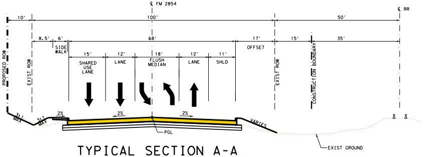
TRAFFIC COUNT (DHV)


FM 2854
LOOP 336
(490) <330>
(350) <240>
(750) <510>
(340) <230>
(1420) <960>
(310) <210>
PINEWOOD DRIVE
(1100) <750>
(210) <310>
(250) <170>
OLD COUNTRY CLUB
(50) <30>
(40) <20>
(1300) <890>
SOUTHWEST DRIVE
ELLA HAYNES
(280) <190>
(290) <200>
(720) <490>
(340) <230>
(490) <330>
(420) <280>
ROYAL COLLEGE HILL
(1390) <950>
(40) <20>
(50) <30>
AMANDA ST
(30) <10>
(40) <20>
(1410) <970>
I 45
(150) <100>
(110) <70>
(280) <200>
(1020) <690>
(18390) <12420>
(600) <410>
FM 2854

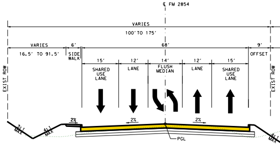



℄ FM 2854
100′
32′
36′
32′
6′
12′
12′
6′
SHLD
LANE
LANE
SHLD
EXIST ROW
EXIST ROW

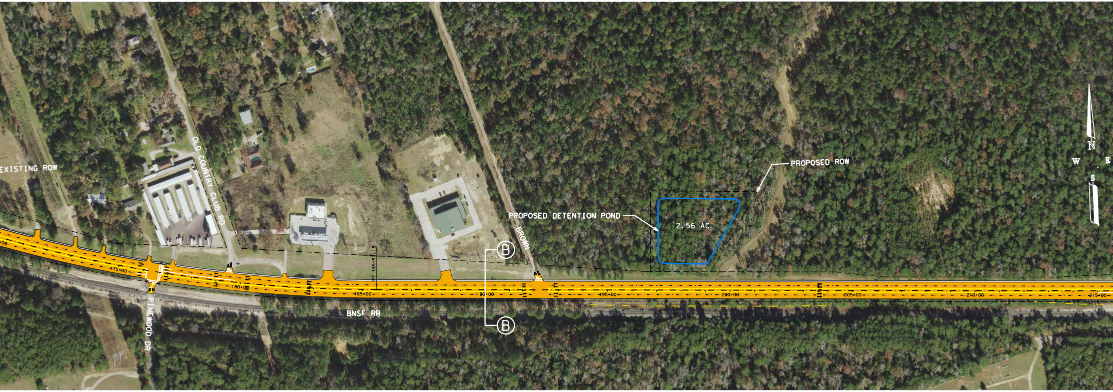
TYPICAL EXISTING SECTION

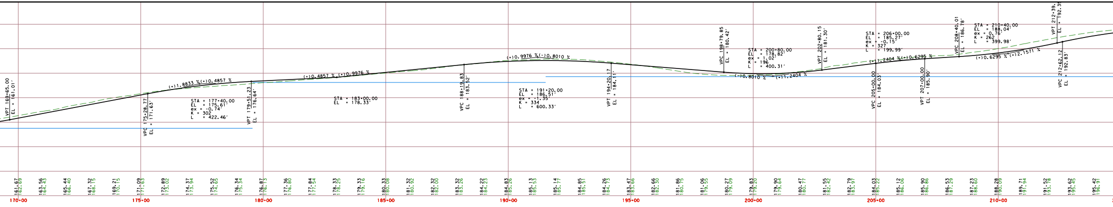

℄ FM 2854
℄ RR
10′
100′
50′
8.5′
6′
68′
17′
15′
35′
SIDE WALK
OFFSET
15′
12′
18′
12′
11′
SHARED USE LANE
LANE
FLUSH MEDIAN
LANE
SHLD
PROPOSED ROW
EXIST ROW
EXIST ROW
CONSTRUCTION BOUNDARY
3:1 MAX
3:1 MAX
2%
2%
2%
VARIES
PGL
EXIST GROUND

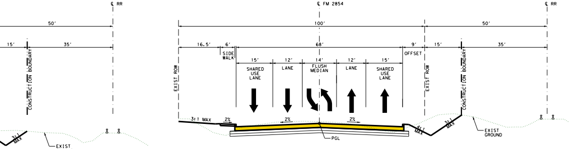
TYPICAL SECTION A-A


℄ FM 2854
VARIES
100′ TO 175′
VARIES
16.5′ TO 91.5′
6′
SIDE WALK
68′
9′
OFFSET
15′
12′
14′
12′
15′
SHARED USE LANE
LANE
FLUSH MEDIAN
LANE
SHARED USE LANE
EXIST ROW
EXIST ROW
3:1 MAX
4:1 MAX
4:1 MAX
2%
2%
2%
PGL

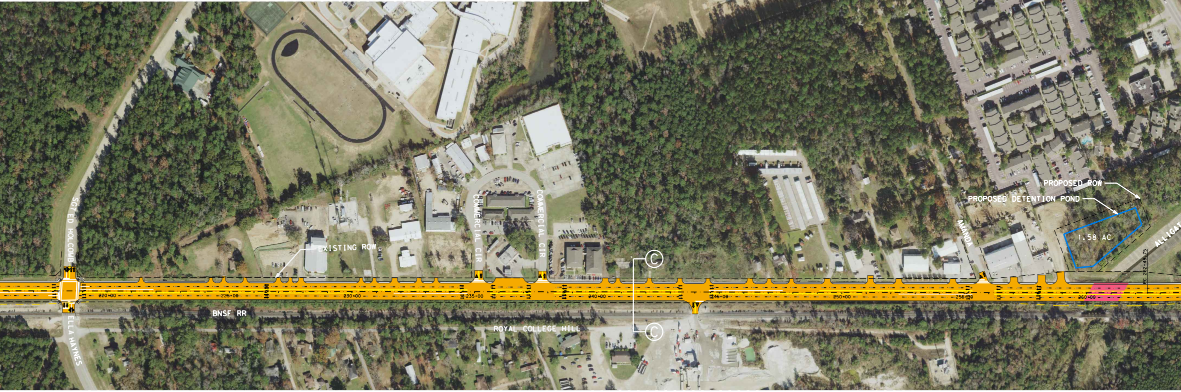
TYPICAL SECTION B-B

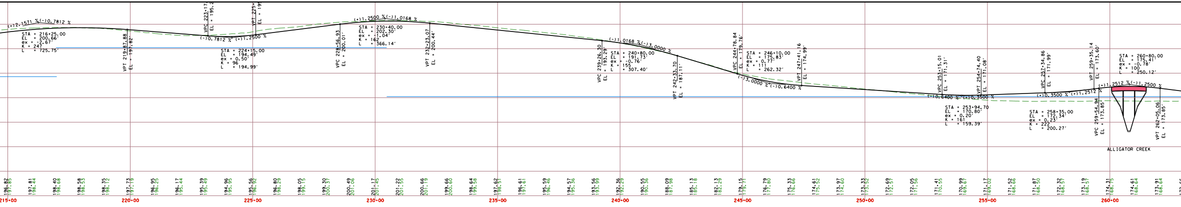

EXISTING ROW
OLD COUNTRY CLUB RD
PINEWOOD DR
BROWN
PROPOSED DETENTION POND
2.56 AC
PROPOSED ROW
BNSF RR
B
B
PT 185+57.18
175+00
180+00
185+00
190+00
195+00
200+00
205+00
210+00
215+00
N
W
E
S

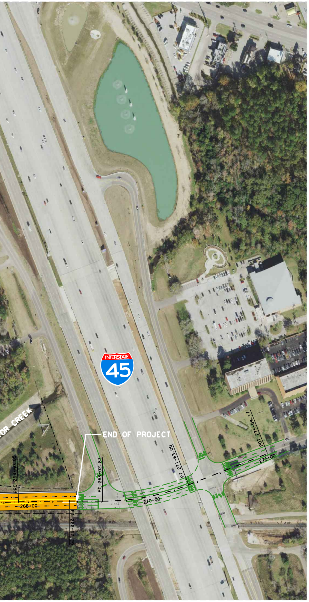


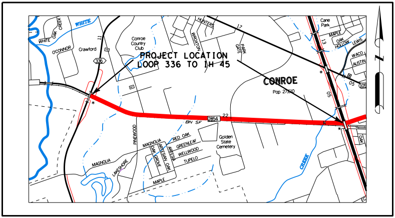

℄ RR
50′
15′
35′
CONSTRUCTION BOUNDARY
3:1 MAX
EXIST GROUND
℄ FM 2854
100′
16.5′
6′
SIDE WALK
68′
9′
OFFSET
15′
12′
14′
12′
15′
SHARED USE LANE
LANE
FLUSH MEDIAN
LANE
SHARED USE LANE
EXIST ROW
3:1 MAX
2%
2%
2%
PGL
4:1 MAX
EXIST ROW
50′
15′
35′
CONSTRUCTION BOUNDARY
3:1 MAX
EXIST GROUND
℄ RR

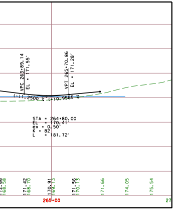
TYPICAL SECTION C-C


SGT ED HOLCOMB
ELLA HAYNES
EXISTING ROW
COMMERCIAL CIR
COMMERCIAL CIR
C
C
BNSF RR
ROYAL COLLEGE HILL
AMANDA
PROPOSED ROW
PROPOSED DETENTION POND
1.58 AC
ALLIGATOR
PC 262+48.75
220+00
225+00
230+00
235+00
240+00
245+00
250+00
255+00
260+00




INTERSTATE
45
OR CREEK
END OF PROJECT
PRC 264+60.05
PT 266+67.29
265+00
PC 268+02.83
270+00
PT 271+63.00
POT 275+09.17
275+00


PROJECT LOCATION
LOOP 336 TO IH 45
CONROE
Pop 27,610
WHITE OAK CREEK
WHITE
O'CONNOR
Crawford
Conroe Country Club
336
HUNTERS
WROXTON
PARK GATE
17
Cane Park
MAPLE
OAK HOLLOW
LEWIS
WACO
AUSTIN
05
105
13
BN SF
2854
22
PINEWOOD
MAGNOLIA
RED OAK
GREENLEAF
WELLWOOD
TUPELO
ARTESIAN OAK
OAK GROVE
ARTESIA
LAKESHORE
MAGNOLIA
MAPLE
Golden State Cemetery
CREEK


VPC 263+89.14
EL = 171.55'
VPT 265+70.86
EL = 171.28'
(-)1.2500 %
(+)0.9565 %
STA = 264+80.00
EL = 170.41'
ex = 0.50'
K = 82
L = 181.72'
171.42
168.70
170.91
169.13
171.56
170.13
171.66
174.05
175.54
168.58
265+00
27

HOUSTON DISTRICT
PROJECT DEVELOPMENT

FM 2854

PRELIMINARY
SUBJECT TO CHANGE

ROADWAY: FM 2854
COUNTY: MONTGOMERY
LIMITS FROM: LOOP 336
LIMITS TO: I 45

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PREPARED BY: (YOUR NAME HERE)