Texas Department of Transportation

© 2009 by Texas Department of Transportation;
All rights Reserved

DALLAS DISTRICT
WILLIAM L. HALE P.E.,
DISTRICT ENGINEER

COLLIN COUNTY
CITY OF ANNA

DESIGN SCHEMATIC
FM 455
PROJECT LENGTH 6.33 MILES

CSJ #0816-04-044
LIMITS: FROM US 75 NB FRONTAGE ROAD TO SH 5
LENGTH: 1.92 MILES

CSJ #2845-01-014
LIMITS: FROM SH 5 TO W. WILD ROSE
LENGTH: 3.79 MILES

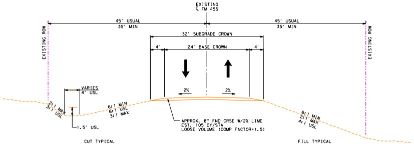
CSJ #2845-01-015
LIMITS: FROM W. WILD ROSE TO SH 121
LENGTH: 0.625 MILES

DESIGN SPEED 45 MPH (LOW SPEED URBAN DESIGN)
FUNCTIONAL CLASS: RURAL MAJOR COLLECTOR
ROLL 1 OF 2
SCALE: 1:200′ H, 1:20′ V
JANUARY 2009

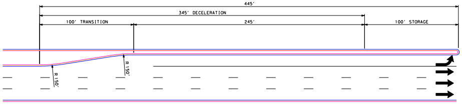
ROADWAY	2011 ADT	2031 ADT
FM 455	8,600	16,600

TRAFFIC SOURCE: TXDOT

DANNENBAUM ENGINEERING CORPORATION
DALLAS HOUSTON AUSTIN FORT WORTH McALLEN


EXISTING
℄ FM 455
45′ USUAL
35′ MIN
45′ USUAL
35′ MIN
EXISTING ROW
EXISTING ROW
32′ SUBGRADE CROWN
4′
24′ BASE CROWN
4′
2%
2%
VARIES
4′ USL
2:1 MAX
3:1 USL
1.5′ USL
6:1 MIN
6:1 USL
3:1 MAX
APPROX. 8″ FND CRSE W/2% LIME
EST. 105 CY/STA
LOOSE VOLUME (COMP FACTOR=1.5)
6:1 MIN
2:1 MAX
4:1 USL
CUT TYPICAL
FILL TYPICAL

FM 455 EXISTING TYPICAL SECTION


445′
345′ DECELERATION
100′ TRANSITION
245′
100′ STORAGE
R 150′
R 150′

FM 455 PROPOSED LEFT TURN BAY TYPICAL DETAIL

FUNCTIONAL CLASSIFICATION
RURAL MAJOR COLLECTOR

PRELIMINARY
SUBJECT TO REVISION

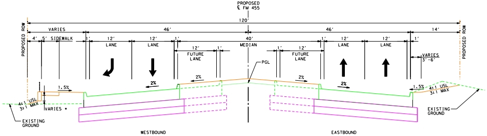
DANNENBAUM ENGINEERING CORPORATION
F-8996
HOUSTON FT WORTH AUSTIN
DALLAS RIO GRANDE VALLEY
NOT A BIDDING DOCUMENT
DANIEL W. EVERETT
DANIEL W. EVERETT, P.E.
93551
TEXAS REGISTRATION NUMBER
4/27/2009
DATE

PREPARED UNDER THE SUPERVISION OF

DANIEL W. EVERETT P.E.

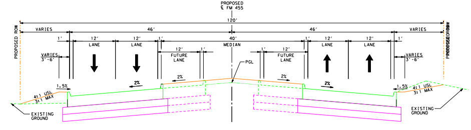
NOTES:
1. DUE TO THE PROPOSED CENTERLINE N
FOLLOWING THE EXISTING ROADWAY,
EXISTING ROW VARIES TOO GREATLY
ADEQUATELY SHOW IN THE PROPOSED
TYPICAL SECTIONS.
2. (*) INDICATES WHERE RETAINING WA
MAY BE NEEDED.

STATUS: $(INST)
USER: $(*USTN=USERDESCR)
FILE: g:\1220\4086-32\SCHEMATIC SHEETS\455schematic01.dgn
DATE: 4/27/2009


PROPOSED
℄ FM 455
120'
PROPOSED ROW
VARIES
46'
46'
14'
4'
5' SIDEWALK
1'
12'
LANE
12'
LANE
12'
FUTURE
LANE
40'
MEDIAN
12'
FUTURE
LANE
12'
LANE
12'
LANE
VARIES
3'-6'
PGL
1.5%
2%
2%
2%
2%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING
GROUND
EXISTING
GROUND
WESTBOUND
EASTBOUND

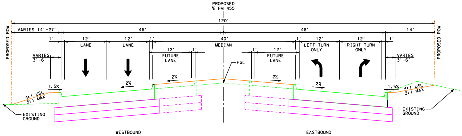
FM 455 PROPOSED TYPICAL SECTION

AT US 75 INTERSECTION
STA 10+88.72 TO 16+03.64


PROPOSED
℄ FM 455
120'
PROPOSED ROW
VARIES
46'
46'
VARIES
1'
12'
LANE
12'
LANE
12'
FUTURE
LANE
40'
MEDIAN
12'
FUTURE
LANE
12'
LANE
12'
LANE
VARIES
3'-6'
PGL
1.5%
2%
2%
2%
2%
1.5%
4:1 USL
3:1 MAX
EXISTING
GROUND
ALL FILL SLOPES
WESTBOUND
EASTBOUND
ALL CUT SLOPES

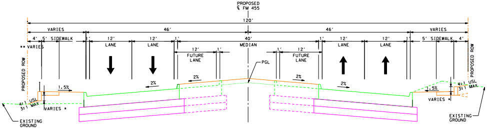
FM 455 PROPOSED TYPICAL SECTION

STA 30+56.99 TO STA 33+64.25
STA 133+98.25 TO STA 172+58.85
STA 177+23.63 TO STA 193+00.00
STA 196+93.32 TO STA 229+91.74
STA 234+58.71 TO STA 276+07.86
STA 284+39.97 TO STA 292+36.53
STA 296+02.00 TO STA 321+80.73
STA 325+50.00 TO STA 339+78.29


PROPOSED
℄ FM 455
120'
PROPOSED ROW
VARIES 14'-27'
46'
46'
14'
1'
12'
LANE
12'
LANE
12'
FUTURE
LANE
40'
MEDIAN
12'
FUTURE
LANE
12'
LEFT TURN
ONLY
12'
RIGHT TURN
ONLY
VARIES
3'-6'
PGL
1.5%
2%
2%
2%
2%
1.5%
4:1 USL
3:1 MAX
EXISTING
GROUND
EXISTING
GROUND
WESTBOUND
EASTBOUND

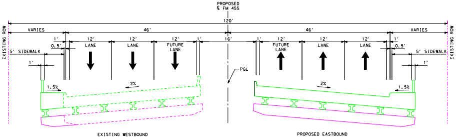
FM 455 PROPOSED TYPICAL SECTION

AT SH 121 INTERSECTION
STA 339+78.29 TO STA 345+00.00


PROPOSED
℄ FM 455
120'
PROPOSED ROW
VARIES
46'
46'
VARIES
4'
5' SIDEWALK
** VARIES
12'
LANE
12'
LANE
12'
FUTURE
LANE
40'
MEDIAN
12'
FUTURE
LANE
12'
LANE
12'
LANE
5' SIDEWALK
PGL
1.5%
2%
2%
2%
2%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING
GROUND
ALL FILL SLOPES
WESTBOUND
EASTBOUND
ALL CUT SLOPES

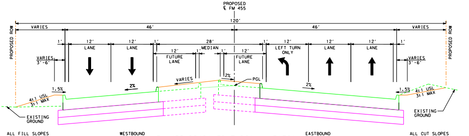
FM 455 PROPOSED TYPICAL SECTION

STA 33+64.25 TO STA 47+61.20 **
STA 51+37.09 TO STA 62+69.30
STA 103+00.00 TO STA 108+54.12 **


PROPOSED
℄ FM 455
120'
EXISTING ROW
VARIES
46'
16'
46'
VARIES
1'
0.5'
5' SIDEWALK
12'
LANE
12'
LANE
12'
FUTURE
LANE
12'
FUTURE
LANE
12'
LANE
12'
LANE
PGL
1.5%
2%
2%
1.5%
EXISTING WESTBOUND
PROPOSED EASTBOUND

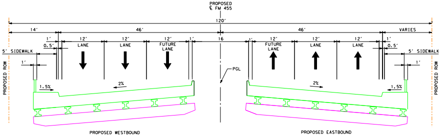
FM 455 PROPOSED TYPICAL BRIDGE SECTION

STA 24+55.41 TO STA 25+50.10


PROPOSED
℄ FM 455
120'
PROPOSED ROW
VARIES
46'
46'
VARIES
1'
12'
LANE
12'
LANE
12'
FUTURE
LANE
28'
MEDIAN
12'
FUTURE
LANE
12'
LEFT TURN
ONLY
12'
LANE
12'
LANE
VARIES
3'-6'
VARIES
PGL
1.5%
2%
2%
2%
1.5%
4:1 USL
3:1 MAX
EXISTING
GROUND
ALL FILL SLOPES
WESTBOUND
EASTBOUND
ALL CUT SLOPES

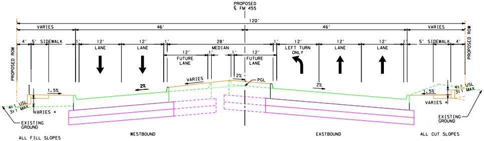
FM 455 PROPOSED TYPICAL SECTION

STA 26+76.57 TO STA 30+56.99
STA 193+00.00 TO STA 196+93.32
STA 276+07.86 TO STA 279+72.93
STA 292+36.53 TO STA 296+02.00
STA 321+80.73 TO STA 325+50.00


PROPOSED
℄ FM 455
120'
PROPOSED ROW
14'
46'
16
46'
VARIES
1'
0.5'
5' SIDEWALK
12'
LANE
12'
LANE
12'
FUTURE
LANE
12'
FUTURE
LANE
12'
LANE
12'
LANE
PGL
1.5%
2%
2%
1.5%
PROPOSED WESTBOUND
PROPOSED EASTBOUND

FM 455 PROPOSED TYPICAL BRIDGE SECTION

STA 101+00.00 TO STA 103+00.00

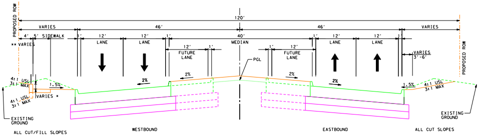

PROPOSED
℄ FM 455
120'
PROPOSED ROW
VARIES
46'
46'
VARIES
4'
5' SIDEWALK
12'
LANE
12'
LANE
12'
FUTURE
LANE
28'
MEDIAN
12'
FUTURE
LANE
12'
LEFT TURN
ONLY
12'
LANE
12'
LANE
5' SIDEWALK
VARIES
PGL
1.5%
2%
2%
2%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING
GROUND
ALL FILL SLOPES
WESTBOUND
EASTBOUND
ALL CUT SLOPES

FM 455 PROPOSED TYPICAL SECTION

STA 108+54.12 TO STA 112+25.74

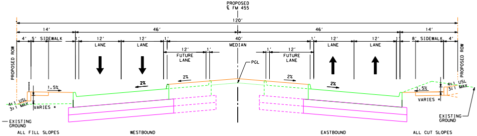
NOT
THE
TO

ALLS


PROPOSED ROW
120'
VARIES
46'
46'
VARIES
4'
5' SIDEWALK
** VARIES
1'
12' LANE
12' LANE
12' FUTURE LANE
40' MEDIAN
12' FUTURE LANE
12' LANE
12' LANE
VARIES 3'-6'
PROPOSED ROW
PGL
2%
2%
2%
2%
1.5%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING GROUND
ALL CUT/FILL SLOPES
WESTBOUND
EASTBOUND
ALL CUT SLOPES

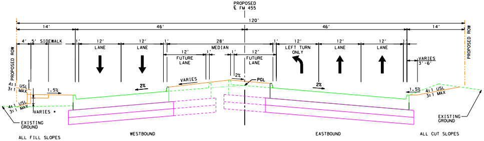
FM 455 PROPOSED TYPICAL SECTION

STA 16+03.64 TO STA 24+55.41 **
STA 25+50.10 TO STA 26+76.57 **
STA 121+59.26 TO STA 130+30.89


PROPOSED ℄ FM 455
120'
14'
46'
46'
14'
4'
5' SIDEWALK
8' SIDEWALK
4'
PROPOSED ROW
12' LANE
12' LANE
12' FUTURE LANE
40' MEDIAN
12' FUTURE LANE
12' LANE
12' LANE
PGL
2%
2%
2%
2%
1.5%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING GROUND
ALL FILL SLOPES
WESTBOUND
EASTBOUND
ALL CUT SLOPES

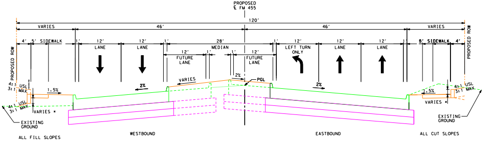
FM 455 PROPOSED TYPICAL SECTION

STA 67+15.76 TO STA 73+65.47
STA 77+30.54 TO STA 89+28.14
STA 96+69.70 TO STA 101+00.00


PROPOSED ℄ FM 455
120'
14'
46'
46'
14'
4'
5' SIDEWALK
PROPOSED ROW
12' LANE
12' LANE
12' FUTURE LANE
28' MEDIAN
12' FUTURE LANE
12' LEFT TURN ONLY
12' LANE
12' LANE
VARIES 3'-6'
VARIES
PGL
2%
2%
2%
1.5%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING GROUND
ALL FILL SLOPES
WESTBOUND
EASTBOUND
ALL CUT SLOPES

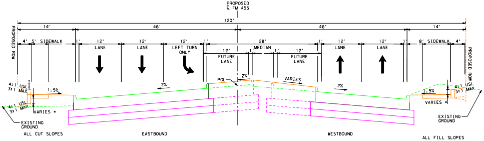
FM 455 PROPOSED TYPICAL SECTION

STA 117+00.00 TO STA 121+59.26
STA 130+30.89 TO STA 133+98.25


PROPOSED ℄ FM 455
120'
VARIES
46'
46'
VARIES
4'
5' SIDEWALK
8' SIDEWALK
4'
PROPOSED ROW
12' LANE
12' LANE
12' FUTURE LANE
28' MEDIAN
12' FUTURE LANE
12' LEFT TURN ONLY
12' LANE
12' LANE
VARIES
PGL
2%
2%
2%
1.5%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING GROUND
ALL FILL SLOPES
WESTBOUND
EASTBOUND
ALL CUT SLOPES

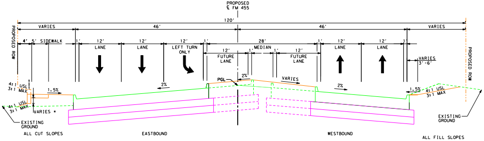
FM 455 PROPOSED TYPICAL SECTION

STA 73+65.47 TO STA 77+30.54
STA 89+28.14 TO STA 92+98.30


PROPOSED ℄ FM 455
120'
14'
46'
46'
14'
4'
5' SIDEWALK
8' SIDEWALK
4'
PROPOSED ROW
12' LANE
12' LANE
12' LEFT TURN ONLY
12' FUTURE LANE
28' MEDIAN
12' FUTURE LANE
12' LANE
12' LANE
VARIES
PGL
2%
2%
2%
1.5%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING GROUND
ALL CUT SLOPES
EASTBOUND
WESTBOUND
ALL FILL SLOPES

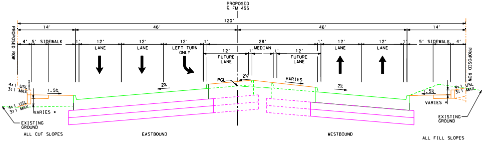
FM 455 PROPOSED TYPICAL SECTION

STA 62+69.30 TO STA 67+15.76
STA 92+98.30 TO STA 96+69.70


PROPOSED ℄ FM 455
120'
VARIES
46'
46'
VARIES
4'
5' SIDEWALK
PROPOSED ROW
12' LANE
12' LANE
12' LEFT TURN ONLY
12' FUTURE LANE
28' MEDIAN
12' FUTURE LANE
12' LANE
12' LANE
VARIES 3'-6'
VARIES
PGL
2%
2%
2%
1.5%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING GROUND
ALL CUT SLOPES
EASTBOUND
WESTBOUND
ALL FILL SLOPES

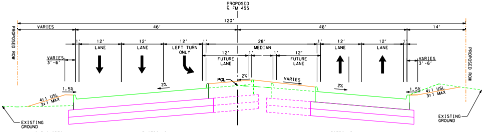
FM 455 PROPOSED TYPICAL SECTION

STA 112+25.74 TO STA 117+00.00


PROPOSED ℄ FM 455
120'
14'
46'
46'
14'
4'
5' SIDEWALK
5' SIDEWALK
4'
PROPOSED ROW
12' LANE
12' LANE
12' LEFT TURN ONLY
12' FUTURE LANE
28' MEDIAN
12' FUTURE LANE
12' LANE
12' LANE
VARIES
PGL
2%
2%
2%
1.5%
1.5%
4:1 USL
3:1 MAX
VARIES *
EXISTING GROUND
ALL CUT SLOPES
EASTBOUND
WESTBOUND
ALL FILL SLOPES

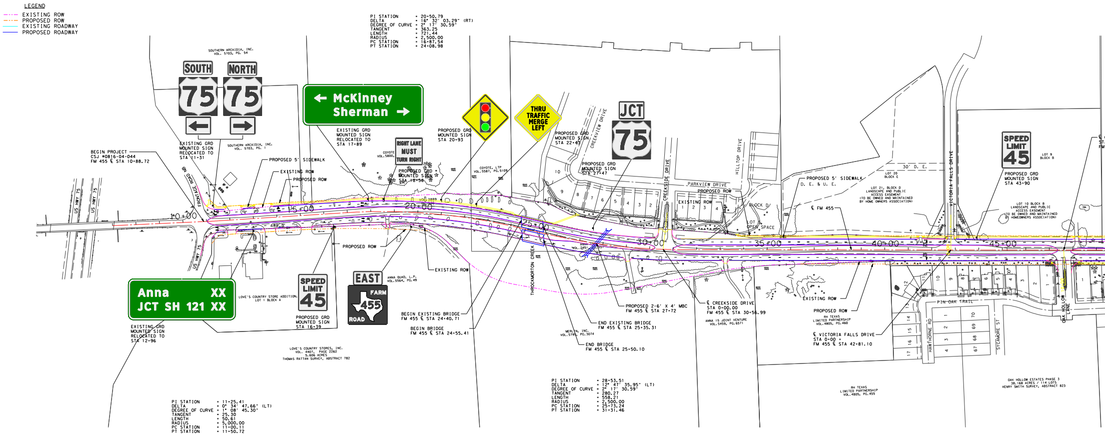
FM 455 PROPOSED TYPICAL SECTION

STA 47+61.20 TO STA 51+37.09

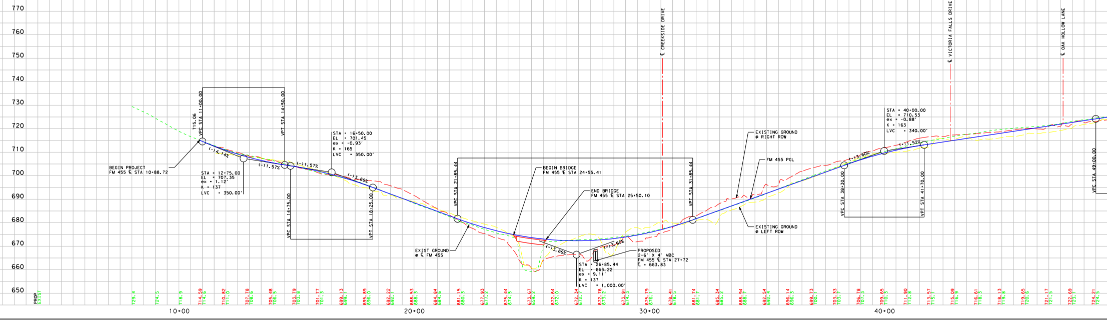

PROPOSED ℄ FM 455
120'
VARIES
46'
46'
14'
PROPOSED ROW
VARIES 3'-6'
12' LANE
12' LANE
12' LEFT TURN ONLY
12' FUTURE LANE
28' MEDIAN
12' FUTURE LANE
12' LANE
12' LANE
VARIES 3'-6'
VARIES
PGL
2%
2%
2%
1.5%
1.5%
4:1 USL
3:1 MAX
EXISTING GROUND
ALL CUT SLOPES
EASTBOUND
WESTBOUND
ALL FILL SLOPES

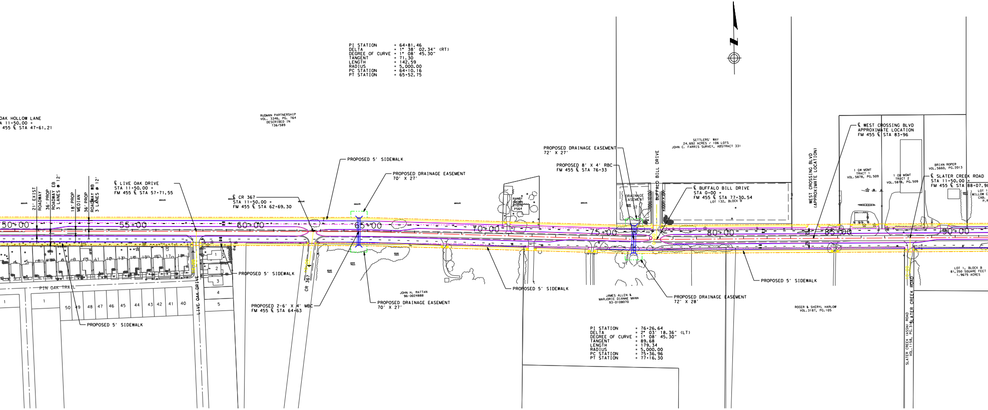
FM 455 PROPOSED TYPICAL SECTION

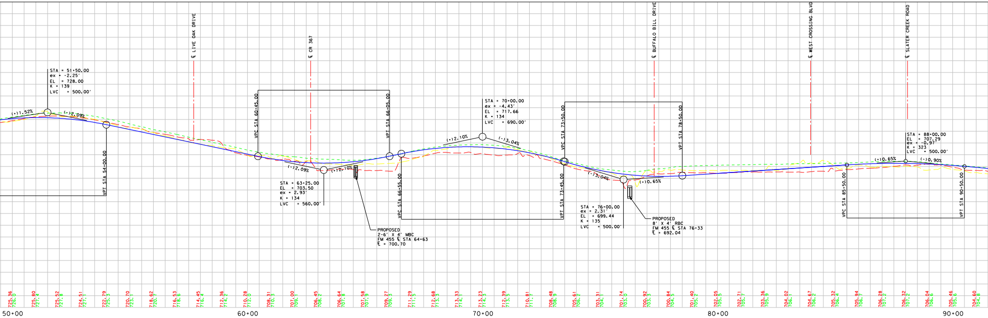
STA 172+58.85 TO STA 177+23.63
STA 229+91.74 TO STA 234+58.71
STA 279+72.93 TO STA 284+39.97



LEGEND
EXISTING ROW
PROPOSED ROW
EXISTING ROADWAY
PROPOSED ROADWAY
PI STATION = 20+50.79
DELTA = 16° 32' 03.29" (RT)
DEGREE OF CURVE = 2° 17' 30.59"
TANGENT = 363.25
LENGTH = 721.44
RADIUS = 2,500.00
PC STATION = 16+87.54
PT STATION = 24+08.98
SOUTHERN ARCAIDIA, INC. VOL. 5703, PG. 54
SOUTH 75
NORTH 75
← McKinney
Sherman →
THRU TRAFFIC MERGE LEFT
JCT 75
SPEED LIMIT 45
RIGHT LANE MUST TURN RIGHT
EXISTING GRD MOUNTED SIGN RELOCATED TO STA 11+31
EXISTING GRD MOUNTED SIGN RELOCATED TO STA 17+89
PROPOSED GRD MOUNTED SIGN STA 20+93
PROPOSED GRD MOUNTED SIGN STA 22+43
PROPOSED GRD MOUNTED SIGN STA 18+58
PROPOSED GRD MOUNTED SIGN STA 27+47
PROPOSED GRD MOUNTED SIGN STA 43+90
BEGIN PROJECT CSJ #0816-04-044 FM 455 ℄ STA 10+88.72
PROPOSED 5' SIDEWALK
EXISTING ROW
PROPOSED ROW
SOUTHERN ARCAIDIA, INC. VOL. 5703, PG. 1
COYOTE, LTP VOL. 5587, PG. 5109
CREEKVIEW DRIVE
HILLTOP DRIVE
CREEKSIDE DRIVE
PARKVIEW DRIVE
VICTORIA FALLS DRIVE
30' D. E.
LOT 20 BLOCK E
LOT 21, BLOCK D LANDSCAPE AND PUBLIC ACCESS EASEMENT (TO BE OWNED AND MAINTAINED BY HOME OWNERS ASSOCIATION)
LOT 10 BLOCK B LANDSCAPE AND PUBLIC ACCESS EASEMENT (TO BE OWNED AND MAINTAINED BY HOMEOWNERS ASSOCIATION)
LOT 9 BLOCK B
BLOCK D
LOT OPEN SPACE
PROPOSED 5' SIDEWALK D. E. & U. E.
℄ FM 455
US HWY 75
FRONTAGE ROAD
10+00
15+00
20+00
25+00
30+00
35+00
40+00
45+00
PROPOSED ROW
EXISTING ROW
THROCKMORTON CREEK
Anna XX
JCT SH 121 XX
EXISTING GRD MOUNTED SIGN RELOCATED TO STA 12+96
LOVE'S COUNTRY STORE ADDITION, LOT 1 BLOCK A
PROPOSED GRD MOUNTED SIGN STA 16+39
EAST FARM 455 ROAD
ANNA QUAD, L.P. VOL. 5564, PG. 49
BEGIN EXISTING BRIDGE FM 455 ℄ STA 24+40.71
BEGIN BRIDGE FM 455 ℄ STA 24+55.41
END EXISTING BRIDGE FM 455 ℄ STA 25+35.31
END BRIDGE FM 455 ℄ STA 25+50.10
PROPOSED 2-6' X 4' MBC FM 455 ℄ STA 27+72
℄ CREEKSIDE DRIVE STA 0+00.00 FM 455 ℄ STA 30+56.99
ANNA 15 JOINT VENTURE VOL. 5459, PG. 6571
MERLYN, INC. VOL. 5795, PG. 3074
EXISTING ROW
PROPOSED ROW
RH TEXAS LIMITED PARTNERSHIP VOL. 4805, PG. 460
℄ VICTORIA FALLS DRIVE STA 0+00 = FM 455 ℄ STA 42+81.10
PIN OAK TRAIL
HAWTHORNE RD
SYCAMORE ST
OAK HOLLOW LANE
LOVE'S COUNTRY STORES, INC. VOL. 4407, PAGE 2282 5.606 ACRES THOMAS RATTAN SURVEY, ABSTRACT 782
PI STATION = 11+25.41
DELTA = 0° 34' 47.66" (LT)
DEGREE OF CURVE = 1° 08' 45.30"
TANGENT = 25.30
LENGTH = 50.61
RADIUS = 5,000.00
PC STATION = 11+00.11
PT STATION = 11+50.72
PI STATION = 28+53.51
DELTA = 12° 47' 35.95" (LT)
DEGREE OF CURVE = 2° 17' 30.59"
TANGENT = 280.27
LENGTH = 558.21
RADIUS = 2,500.00
PC STATION = 25+73.24
PT STATION = 31+31.46
RH TEXAS LIMITED PARTNERSHIP VOL. 4805, PG. 455
OAK HOLLOW ESTATES PHASE 3 38.168 ACRES / 114 LOTS HENRY SMITH SURVEY, ABSTRACT 823




PI STATION = 64+81.46
DELTA = 1° 38' 02.34" (RT)
DEGREE OF CURVE = 1° 08' 45.30"
TANGENT = 71.30
LENGTH = 142.59
RADIUS = 5,000.00
PC STATION = 64+10.16
PT STATION = 65+52.75
OAK HOLLOW LANE
A 11+50.00 =
455 ℄ STA 47+61.21
RUDMAN PARTNERSHIP
VOL. 3346, PG. 764
DESCRIBED IN
736/589
PROPOSED 5' SIDEWALK
PROPOSED DRAINAGE EASEMENT
70' X 27'
21' EXIST ROADWAY
36' PROP ROADWAY EB 3 LANES @ 12'
18' PROP MEDIAN
36' PROP ROADWAY WB 3 LANES @ 12'
℄ LIVE OAK DRIVE
STA 11+50.00 =
FM 455 ℄ STA 57+71.55
℄ CR 367
STA 11+50.00 =
FM 455 ℄ STA 62+69.30
50+00
55+00
60+00
65+00
70+00
75+00
80+00
85+00
90+00
PIN OAK TRAIL
LIVE OAK DRIVE
CR 367
1
1
50
49
48
47
46
45
44
43
42
41
40
1
2
3
4
5
PROPOSED 5' SIDEWALK
PROPOSED 5' SIDEWALK
PROPOSED 2-6' X 4' MBC
FM 455 ℄ STA 64+63
PROPOSED DRAINAGE EASEMENT
70' X 27'
JOHN H. RATTAN
96-0024888
PROPOSED 5' SIDEWALK
RANDY BROWN
P564
PROPOSED DRAINAGE EASEMENT
72' X 27'
PROPOSED 8' X 4' RBC
FM 455 ℄ STA 76+33
SETTLERS' WAY
24.692 ACRES / 106 LOTS
JOHN C. FARRIS SURVEY, ABSTRACT 331
DRAINAGE EASEMENT
BUFFALO BILL DRIVE
℄ BUFFALO BILL DRIVE
STA 0+00 =
FM 455 ℄ STA 77+30.54
LOT 132, BLOCK B
WEST CROSSING BLVD
(APPROXIMATE LOCATION)
℄ WEST CROSSING BLVD
APPROXIMATE LOCATION
FM 455 ℄ STA 83+96
1 GW MGMT
TRACT 1
VOL.5878, PG.509
1 GW MGMT
TRACT 2
VOL.5878, PG.509
BRIAN ROPER
VOL.5660, PG.2013
℄ SLATER CREEK ROAD
STA 11+50.00 =
FM 455 ℄ STA 88+07.98
LOT 1
WILLOW C
CAB.
JAMES ALLEN &
MARJORIE DIANNE MANN
93-0108070
PROPOSED DRAINAGE EASEMENT
72' X 28'
PROPOSED 5' SIDEWALK
ROGER & SHERYL HARLOW
VOL.3187, PG.105
LOT 1, BLOCK B
81,350 SQUARE FEET
1.9675 ACRES
SLATER CREEK ROAD
SLATER CREEK (ASSN) ROAD
VOL.1158, PG.31
PI STATION = 76+26.64
DELTA = 2° 03' 18.36" (LT)
DEGREE OF CURVE = 1° 08' 45.30"
TANGENT = 89.68
LENGTH = 179.34
RADIUS = 5,000.00
PC STATION = 75+36.96
PT STATION = 77+16.30

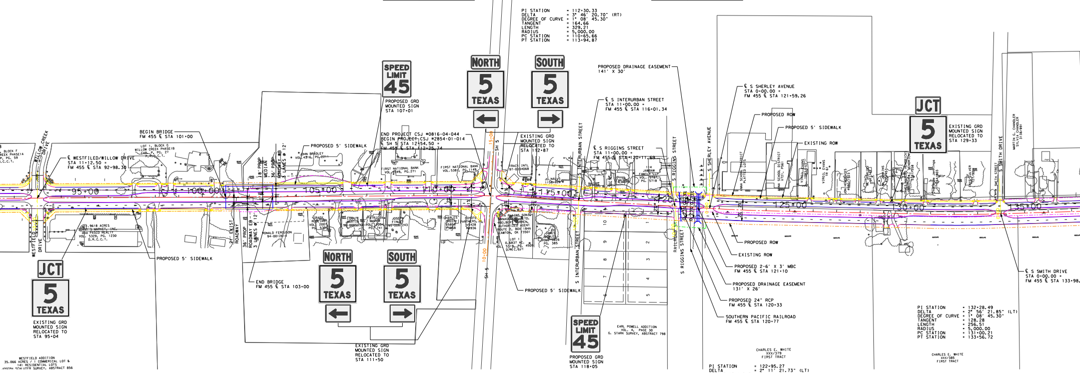

℄ LIVE OAK DRIVE
℄ CR 367
℄ BUFFALO BILL DRIVE
℄ WEST CROSSING BLVD
℄ SLATER CREEK ROAD
STA = 51+50.00
ex = -2.25'
EL = 728.00
K = 139
LVC = 500.00'
(+)1.52%
(-)2.09%
VPT STA 54+00.00
VPC STA 60+45.00
VPT STA 66+05.00
(-)2.09%
(+)2.10%
STA = 63+25.00
EL = 703.50
ex = 2.93'
K = 134
LVC = 560.00'
PROPOSED
2-6' X 4' MBC
FM 455 ℄ STA 64+63
℄ = 700.70
VPC STA 66+55.00
STA = 70+00.00
ex = -4.43'
EL = 717.66
K = 134
LVC = 690.00'
(+)2.10%
(-)3.04%
VPT STA 73+45.00
VPC STA 73+50.00
VPT STA 78+50.00
(-)3.04%
(+)0.65%
STA = 76+00.00
ex = 2.31'
EL = 699.44
K = 135
LVC = 500.00'
PROPOSED
8' X 4' RBC
FM 455 ℄ STA 76+33
℄ = 692.04
VPC STA 85+50.00
STA = 88+00.00
EL = 707.29
ex = -0.97'
K = 323
LVC = 500.00'
(+)0.65%
(-)0.90%
VPT STA 90+50.00
725.36 726.0
725.80 727.4
725.52 727.8
724.51 727.1
722.79 725.3
720.70 723.1
718.62 720.7
716.53 718.6
714.45 716.4
712.36 714.2
710.28 712.0
708.31 710.3
707.00 709.1
706.45 708.2
706.64 707.8
707.58 707.9
709.27 709.3
711.29 711.5
712.68 713.3
713.33 714.1
713.23 714.3
712.39 713.5
710.81 711.7
708.48 708.9
705.61 706.2
703.31 704.1
701.74 703.0
700.92 703.3
700.84 704.5
701.40 705.2
702.05 705.5
702.71 705.7
703.36 705.9
704.02 706.1
704.67 706.2
705.32 706.4
705.94 706.7
706.28 707.2
706.32 707.2
706.04 706.6
705.46 705.6
704.60 704.8
50+00
60+00
70+00
80+00
90+00

FM 455 MAINLANE SUPERELEVATION
TRANSITION AT SH 5

STA	℄	
110+44.30	2% ←	2% →
111+44.30	1% ←	1% →
113+03.90	1% ←	1% →
114+03.90	2% ←	2% →

FM 455 MAINLANE SUPERELEVATION
TRANSITION AT SOUTHERN PACIFIC RR

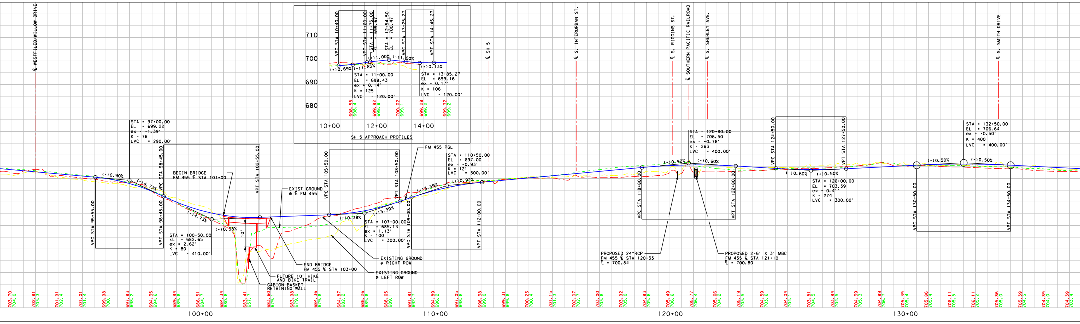
STA	℄	
118+62.56	2% ←	2% →
120+62.56	0.23% →	0.23% →
120+93.12	0.23% →	0.23% →
122+93.12	2% ←	2% →

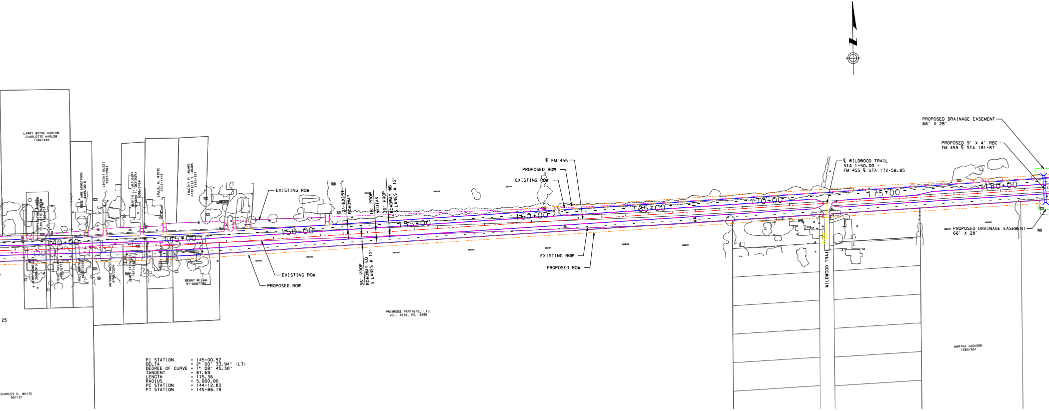

BEGIN BRIDGE
FM 455 ℄ STA 101+00
℄ WESTFILED/WILLOW DRIVE
STA 11+12.50 =
FM 455 ℄ STA 92+98.30
WILLOW CREEK DRIVE
PROPOSED 5' SIDEWALK
SPEED LIMIT 45
PROPOSED GRD
MOUNTED SIGN
STA 107+01
NORTH 5 TEXAS
SOUTH 5 TEXAS
END PROJECT CSJ #0816-04-044
BEGIN PROJECT CSJ #2854-01-014
℄ SH 5 STA 12+54.50 =
FM 455 ℄ STA 112+25.74
EXISTING GRD
MOUNTED SIGN
RELOCATED TO
STA 112+87
PROPOSED DRAINAGE EASEMENT
141' X 30'
℄ S INTERURBAN STREET
STA 11+00.00 =
FM 455 ℄ STA 116+01.34
℄ S RIGGINS STREET
STA 11+00.00 =
FM 455 ℄ STA 120+11.69
℄ S SHERLEY AVENUE
STA 0+00.00 =
FM 455 ℄ STA 121+59.26
PROPOSED ROW
PROPOSED 5' SIDEWALK
EXISTING ROW
JCT 5 TEXAS
EXISTING GRD
MOUNTED SIGN
RELOCATED TO
STA 129+33
95+00
100+00
105+00
110+00
115+00
120+00
125+00
130+00
135+00
WESTFIELD DRIVE
JCT 5 TEXAS
EXISTING GRD
MOUNTED SIGN
RELOCATED TO
STA 95+04
WESTFIELD ADDITION
35.066 ACRES / 1 COMMERICAL LOT &
141 RESIDENTIAL LOTS
JOSEPH SCHLUTER SURVEY, ABSTRACT 856
PROPOSED 5' SIDEWALK
24' EXIST ROADWAY
36' PROP ROADWAY EB 3 LANES @ 12'
8' PROP MEDIAN
36' PROP ROADWAY WB 3 LANES @ 12'
END BRIDGE
FM 455 ℄ STA 103+00
NORTH 5 TEXAS
SOUTH 5 TEXAS
EXISTING GRD
MOUNTED SIGN
RELOCATED TO
STA 111+50
SH 5
PROPOSED 5' SIDEWALK
S INTERURBAN STREET
SPEED LIMIT 45
PROPOSED GRD
MOUNTED SIGN
STA 118+05
EARL POWELL ADDITION
VOL. 4, PAGE 30
G. STARK SURVEY, ABSTRACT 798
S RIGGINS STREET
RAILROAD
S SHERLEY AVENUE
PROPOSED ROW
EXISTING ROW
PROPOSED 2-6' X 3' MBC
FM 455 ℄ STA 121+10
PROPOSED DRAINAGE EASEMENT
131' X 26'
PROPOSED 24" RCP
FM 455 ℄ STA 120+33
SOUTHERN PACIFIC RAILROAD
FM 455 ℄ STA 120+77
CHARLES E. WHITE
XXX/379
FIRST TRACT
CHARLES E. WHITE
XXX/385
FIRST TRACT
S SMITH DRIVE
℄ S SMITH DRIVE
STA 0+00.00 =
FM 455 ℄ STA 133+98.

PI STATION = 112+30.33
DELTA = 3° 46' 20.70" (RT)
DEGREE OF CURVE = 1° 08' 45.30"
TANGENT = 164.66
LENGTH = 329.21
RADIUS = 5,000.00
PC STATION = 110+65.66
PT STATION = 113+94.87

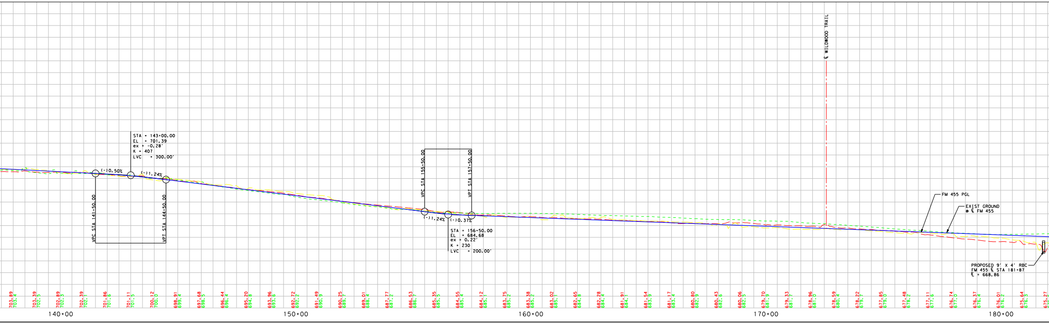
PI STATION = 122+95.27
DELTA = 2° 11' 21.73" (LT)
DEGREE OF CURVE = 1° 08' 45.30"
TANGENT = 95.54
LENGTH = 191.06
RADIUS = 5,000.00
PC STATION = 121+99.73
PT STATION = 123+90.79

PI STATION = 132+28.49
DELTA = 2° 56' 21.85" (LT)
DEGREE OF CURVE = 1° 08' 45.30"
TANGENT = 128.28
LENGTH = 256.51
RADIUS = 5,000.00
PC STATION = 131+00.21
PT STATION = 133+56.72




LARRY WAYNE HARLOW
CHARLOTTE HARLOW
1788/448
ROSE ANN ARMSTRONG
4449/3618
VINCENT NUZZI
5697/2963
MARTIN L. MATUSZAK
MATUSZAK
4396/2456
SAMUEL M. WIESE
5907/1418
TIMOTHY P. ADAMS
PATRICIA S. ADAMS
5284/397
LARRY WAYNE HARLOW
CHARLOTTE HARLOW
1788/454
3508/013
STEVE TULL
1482/677
ANTHONY NUZZI
4799/2324
JAMES STOPHERS
1671/652
BENNY MILAM
97-0007700
25
CHARLES E. WHITE
567/21
140+00
145+00
150+00
155+00
160+00
165+00
170+00
175+00
180+00
EXISTING ROW
EXISTING ROW
PROPOSED ROW
12' EXIST ROADWAY
18' PROP MEDIAN
36' PROP ROADWAY WB
3 LANES @ 12'
36' PROP ROADWAY EB
3 LANES @ 12'
PRIMROSE PARTNERS, LTD.
VOL. 4638, PG. 3295
℄ FM 455
PROPOSED ROW
EXISTING ROW
EXISTING ROW
PROPOSED ROW
℄ WILDWOOD TRAIL
STA 1+50.00 =
FM 455 ℄ STA 172+58.85
WILDWOOD TRAIL
MARTHA JACKSON
1085/861
PROPOSED DRAINAGE EASEMENT
66' X 28'
PROPOSED 9' X 4' RBC
FM 455 ℄ STA 181+87
PROPOSED DRAINAGE EASEMENT
66' X 28'

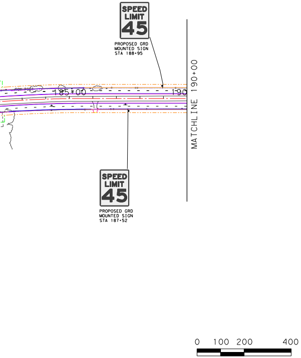
PI STATION = 145+00.52
DELTA = 2° 00' 33.94" (LT)
DEGREE OF CURVE = 1° 08' 45.30"
TANGENT = 87.69
LENGTH = 175.36
RADIUS = 5,000.00
PC STATION = 144+12.83
PT STATION = 145+88.19

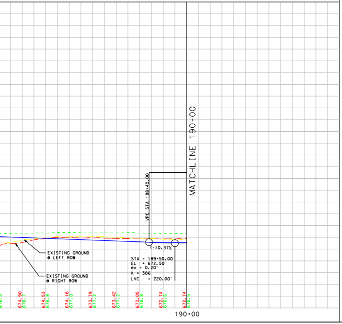

STA = 143+00.00
EL = 701.39
ex = -0.28'
K = 407
LVC = 300.00'
(-)0.50%
(-)1.24%
VPC STA 141+50.00
VPT STA 144+50.00
VPC STA 155+50.00
VPT STA 157+50.00
(-)1.24%
(-)0.37%
STA = 156+50.00
EL = 684.68
ex = 0.22'
K = 230
LVC = 200.00'
℄ WILDWOOD TRAIL
FM 455 PGL
EXIST GROUND
@ ℄ FM 455
PROPOSED 9' X 4' RBC
FM 455 ℄ STA 181+87
℄ = 668.86
703.89 703.4
703.39 702.5
702.89 702.3
702.39 702.1
701.86 701.6
701.11 701.5
700.12 700.0
698.91 699.4
697.68 698.5
696.44 696.4
695.20 694.8
693.96 693.6
692.72 692.2
691.49 690.9
690.25 689.7
689.01 688.4
687.77 687.2
686.53 686.7
685.35 685.5
684.55 685.4
684.12 685.1
683.75 685.2
683.38 685.2
683.02 685.1
682.65 684.8
682.28 684.4
681.91 684.1
681.54 683.9
681.17 683.4
680.80 682.9
680.43 682.6
680.06 682.5
679.70 681.9
679.33 681.7
678.96 681.0
678.59 680.4
678.22 679.7
677.85 679.0
677.48 678.2
677.11 677.6
676.74 677.0
676.37 676.4
676.01 676.2
675.64 676.3
675.27
140+00
150+00
160+00
170+00
180+00

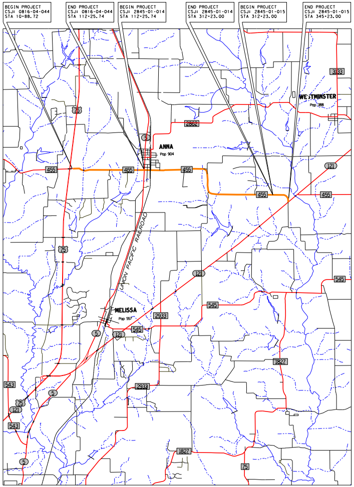
LEGEND

- -·-·- EXISTING ROW
- -·-·- PROPOSED ROW
- —— EXISTING ROADWAY
- —— PROPOSED ROADWAY

PI STATION = 184+02.42
DELTA = 3° 43' 12.11" (RT)
DEGREE OF CURVE = 1° 08' 45.30"
TANGENT = 162.37
LENGTH = 324.63
RADIUS = 5,000.00
PC STATION = 182+40.04
PT STATION = 185+64.68


SPEED LIMIT 45
PROPOSED GRD MOUNTED SIGN STA 188+95
185+00
190
MATCHLINE 190+00
SPEED LIMIT 45
PROPOSED GRD MOUNTED SIGN STA 187+52
0 100 200 400




BEGIN PROJECT CSJ: 0816-04-044 STA 10+88.72
END PROJECT CSJ: 0816-04-044 STA 112+25.74
BEGIN PROJECT CSJ: 2845-01-014 STA 112+25.74
END PROJECT CSJ: 2845-01-014 STA 312+23.00
BEGIN PROJECT CSJ: 2845-01-015 STA 312+23.00
END PROJECT CSJ: 2845-01-015 STA 345+23.00
WESTMINSTER
Pop 388
ANNA
Pop 904
MELISSA
Pop 557
UNION PACIFIC RAILROAD
3133
2862
75
5
455
121
545
2933
1827
543

VICINITY MAP

SCALE: NTS

PREPARED UNDER THE SUPERVISION OF

DANIEL W. EVERETT P.E.

FUNCTIONAL CLASSIFICATION
RURAL MAJOR COLLECTOR

PRELIMINARY
SUBJECT TO REVISION

DANNENBAUM ENGINEERING CORPORATION
F-0996
HOUSTON FT WORTH AUSTIN
DALLAS RIO GRANDE VALLEY

NOT A BIDDING DOCUMENT

DANIEL W. EVERETT
DANIEL W. EVERETT, P.E.
93551
TEXAS REGISTRATION NUMBER
4/27/2009
DATE

Texas Department of Transportation

© 2009 by Texas Department of Transportation;
All rights Reserved

DALLAS DISTRICT
WILLIAM L. HALE P.E.,
DISTRICT ENGINEER

COLLIN COUNTY
CITY OF ANNA

DESIGN SCHEMATIC
FM 455
PROJECT LENGTH 6.33 MILES

CSJ #0816-04-044
LIMITS: FROM US 75 NB FRONTAGE ROAD TO SH 5
LENGTH: 1.92 MILES

CSJ #2845-01-014
LIMITS: FROM SH 5 TO W. WILD ROSE
LENGTH: 3.79 MILES

CSJ #2845-01-015
LIMITS: FROM W. WILD ROSE TO SH 121
LENGTH: 0.625 MILES

DESIGN SPEED 45 MPH (LOW SPEED URBAN DESIGN)
FUNCTIONAL CLASS: RURAL MAJOR COLLECTOR
ROLL 1 OF 2
SCALE: 1:200' H, 1:20' V
JANUARY 2009

ROADWAY	2011 ADT	2031 ADT
FM 455	8,600	16,600

TRAFFIC SOURCE: TXDOT

DANNENBAUM ENGINEERING CORPORATION
DALLAS HOUSTON AUSTIN FORT WORTH McALLEN