SCHEMATIC LAYOUT

SH 242

COUNTY: MONTGOMERY
LIMITS FROM: NEEDHAM RD
LIMITS TO: I-69 (US 59)
CSJ: 3538-01-032, etc.
DATE: 12/27/2016
APPROVED: _/_/___

NOT A BIDDING DOCUMENT
________________, P.E.
TBPE NO. ________

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	MAGENTA -200
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 2016 DHV	(XXX)	1	BLACK -0
TRAFFIC COUNT YEAR 2040 DHV	<XXX>		

COLORFILL LEGEND

- MAIN LANES
- FRONTAGE ROAD/RAMPS
- SIDEWALK
- BRIDGE
- GRASS MEDIAN

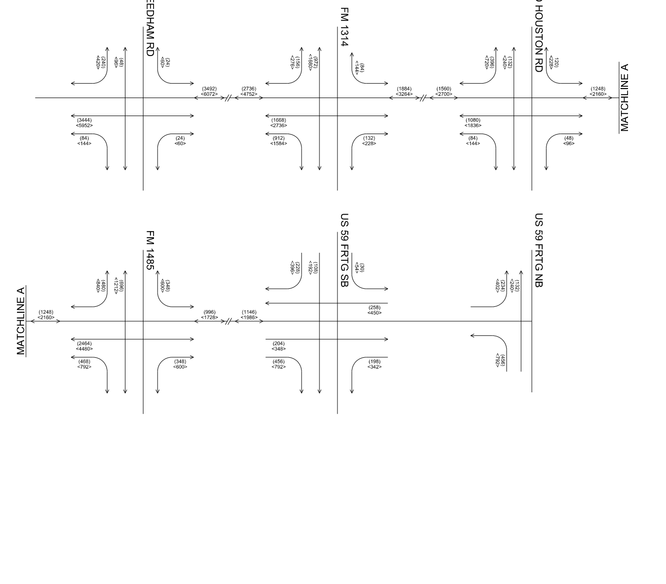
SCALE

0 100 200 300 400

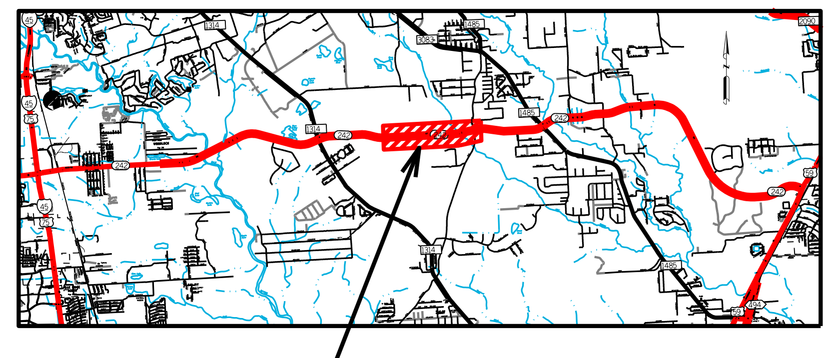
DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: URBAN ARTERIAL
MAIN LANE DESIGN CRITERIA: HIGH SPEED URBAN (STA 420+00 TO 1151+30)
MAIN LANE DESIGN SPEED: 60 MPH

TRAFFIC DATA



VICINITY MAP



WESTBOUND CURVE DATA (PROPOSED)

PI STATION = 1685+16.71
DELTA = 16° 11' 50.00" (LT)
DEGREE OF CURVE = 2° 01' 31.63"
TANGENT = 402.53
LENGTH = 799.68
RADIUS = 2,828.79
PC STATION = 1681+14.18
PT STATION = 1689+13.86
SUPERELEVATION RATE 4.48%

PI STATION = 1769+31.00
DELTA = 8° 57' 00.00" (LT)
DEGREE OF CURVE = 2° 01' 31.63"
TANGENT = 221.39
LENGTH = 441.88
RADIUS = 2,828.79
PC STATION = 1767+09.61
PT STATION = 1771+51.49
SUPERELEVATION RATE 4.48%

PI STATION = 1798+91.08
DELTA = 19° 06' 09.00" (RT)
DEGREE OF CURVE = 1° 58' 30.64"
TANGENT = 488.09
LENGTH = 967.13
RADIUS = 2,900.79
PC STATION = 1794+02.98
PT STATION = 1803+70.11
SUPERELEVATION RATE 4.42%

CENTER LINE CURVE DATA

PI STATION = 685+42.69
DELTA = 16° 11' 50.00" (LT)
DEGREE OF CURVE = 2° 00' 00.00"
TANGENT = 407.65
LENGTH = 809.86
RADIUS = 2,864.79
PC STATION = 681+35.04
PT STATION = 689+44.90

PI STATION = 769+64.85
DELTA = 8° 57' 00.00" (LT)
DEGREE OF CURVE = 2° 00' 00.00"
TANGENT = 224.21
LENGTH = 447.50
RADIUS = 2,864.79
PC STATION = 767+40.64
PT STATION = 771+88.14

PI STATION = 799+21.68
DELTA = 19° 06' 09.00" (RT)
DEGREE OF CURVE = 2° 00' 00.00"
TANGENT = 482.04
LENGTH = 955.13
RADIUS = 2,864.79
PC STATION = 794+39.64
PT STATION = 803+94.77

EASTBOUND CURVE DATA (EXISTING)

PI STATION = 2685+09.54
DELTA = 16° 11' 50.00" (LT)
DEGREE OF CURVE = 1° 58' 30.64"
TANGENT = 412.77
LENGTH = 820.04
RADIUS = 2,900.79
PC STATION = 2680+96.77
PT STATION = 2689+16.81
SUPERELEVATION RATE: MATCH EXISTING

PI STATION = 2769+39.58
DELTA = 8° 57' 00.00" (LT)
DEGREE OF CURVE = 1° 58' 30.64"
TANGENT = 227.02
LENGTH = 453.12
RADIUS = 2,900.79
PC STATION = 2767+12.55
PT STATION = 2771+65.68
SUPERELEVATION RATE: MATCH EXISTING

PI STATION = 2798+93.15
DELTA = 19° 06' 09.00" (RT)
DEGREE OF CURVE = 2° 01' 31.63"
TANGENT = 475.98
LENGTH = 943.12
RADIUS = 2,828.79
PC STATION = 2794+17.17
PT STATION = 2803+60.30
SUPERELEVATION RATE: MATCH EXISTING

PRELIMINARY
SUBJECT TO CHANGE