HOUSTON DISTRICT PROJECT DEVELOPMENT

SH 242

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

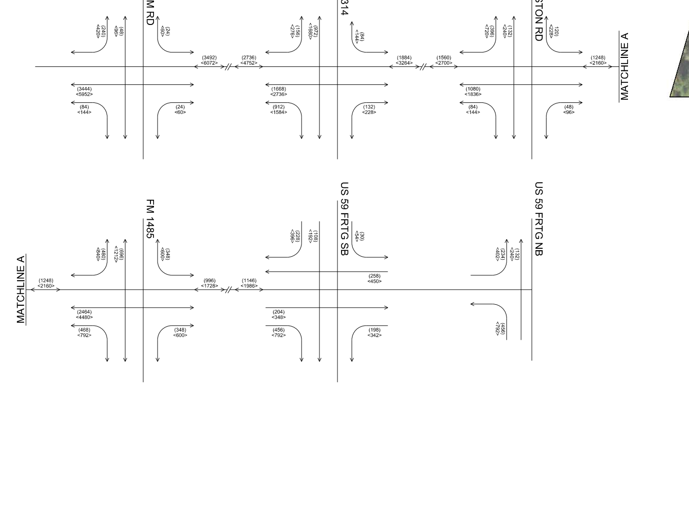
SCALE

0 100 200 300 400

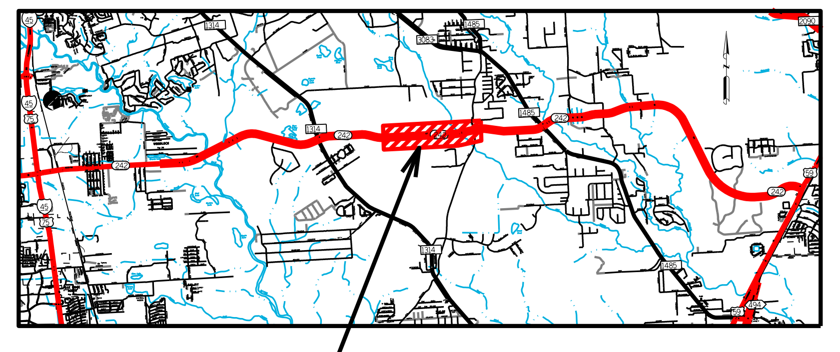
DESIGN CRITERIA

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



SECTION 3

WESTBOUND CURVE DATA (PROPOSED)	CENTER LINE CURVE DATA	EASTBOUND CURVE DATA (EXISTING)
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 = 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 = 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 = 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 = 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 = 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 = 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%	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	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

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