HOUSTON DISTRICT
PROJECT DEVELOPMENT

PROPOSED SH 105

TEXAS 105

PRELIMINARY
SUBJECT TO CHANGE

SCHEMATIC LAYOUT
SH 105

COUNTIES: MONTGOMERY,SAN JACINTO
AND LIBERTY
LIMITS FROM: 10TH STREET IN CONROE
LIMITS TO: BUSINESS 105 IN LIBERTY COUNTY
CSJ: 0338-04-060,ETC.
DATE: FEBRUARY 2019
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 -64
PROPOSED STRIPING	▰▰▰	1	ORANGE -6
PROPOSED LANE INDICATOR	→	1	BLACK -0
PROPOSED RIGHT-OF-WAY	▬ ı	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 ( ) DHV	⬬	1	BLACK -0
CEMETERY	🟩		
POTENTIAL HAZARDOUS MATERIAL SITES	◆		
PARK & PICNIC AREAS	▬		
COUNTY/CITY LIMITS	▮▮		

COLORFILL LEGEND

MAIN LANES	🟨
BRIDGE	🟧

SCALE

0 100 200 300 400

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: ARTERIAL
10TH STREET TO FM 1484 DESIGN CRITERIA: LOW-SPEED URBAN STREET
DESIGN SPEED: 45 MPH
FM 1484 TO STA. 809+00 DESIGN CRITERIA: URBAN ROADWAY
DESIGN SPEED: 50 MPH
STA. 809+00 TO BS 105 DESIGN CRITERIA: MULTI-LANE SUBURBAN HIGHWAY
DESIGN SPEED: 60 MPH

PROJECT CURVE DATA

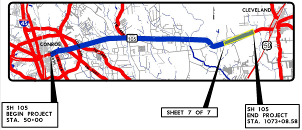
PROPOSED SH 105 BL

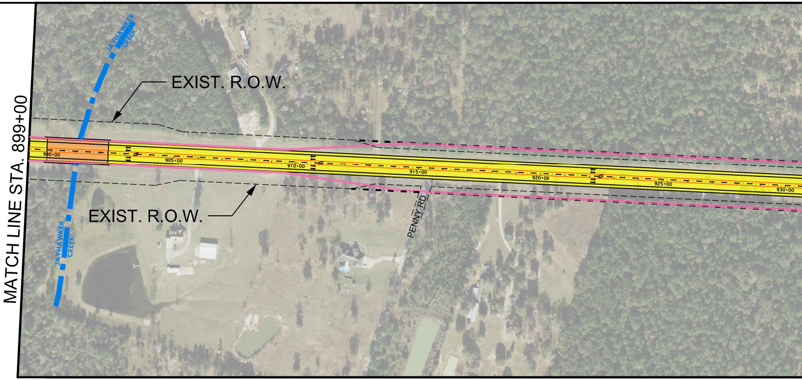
PI STATION = 988+84.23
DELTA = 4° 03' 02.33" (LT)
DEGREE OF CURVE = 0° 24' 33.32"
TANGENT = 495.09
LENGTH = 989.76
RADIUS = 14,000.00
PC STATION = 983+89.15
PT STATION = 993+78.91
NO SUPERELEVATION REQUIRED

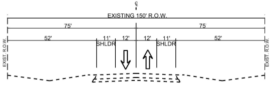
PI STATION = 1053+74.86
DELTA = 1° 47' 38.13" (RT)
DEGREE OF CURVE = 0° 24' 33.32"
TANGENT = 219.19
LENGTH = 438.34
RADIUS = 14,000.00
PC STATION = 1051+55.68
PT STATION = 1055+94.01
NO SUPERELEVATION REQUIRED

PI STATION = 1060+13.11
DELTA = 1° 30' 00.00" (LT)
DEGREE OF CURVE = 0° 24' 33.32"
TANGENT = 183.27
LENGTH = 366.52
RADIUS = 14,000.00
PC STATION = 1058+29.84
PT STATION = 1061+96.36
NO SUPERELEVATION REQUIRED

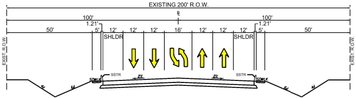
VICINITY MAP
N.T.S.


CLEVELAND
CONROE
45
105
59
LOOP 336
FM 1484
FM 1485
FM 1314
FM 3083
10TH
SH 105
BEGIN PROJECT
STA. 50+00
SHEET 7 OF 7
SH 105
END PROJECT
STA. 1073+08.58


MATCH LINE STA. 899+00
EXIST. R.O.W.
EXIST. R.O.W.
JAYHAWKER CREEK
JAYHAWKER CREEK
PENNY RD
900+00
905+00
910+00
915+00
920+00
925+00
930+00

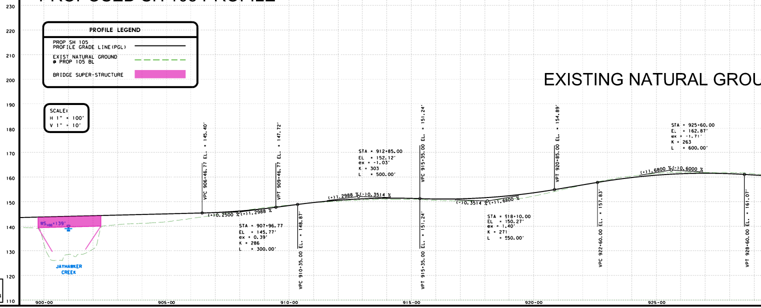

℄
EXISTING 150' R.O.W.
75'
75'
52'
11'
12'
12'
11'
52'
SHLDR
SHLDR
EXIST. R.O.W.
EXIST. R.O.W.

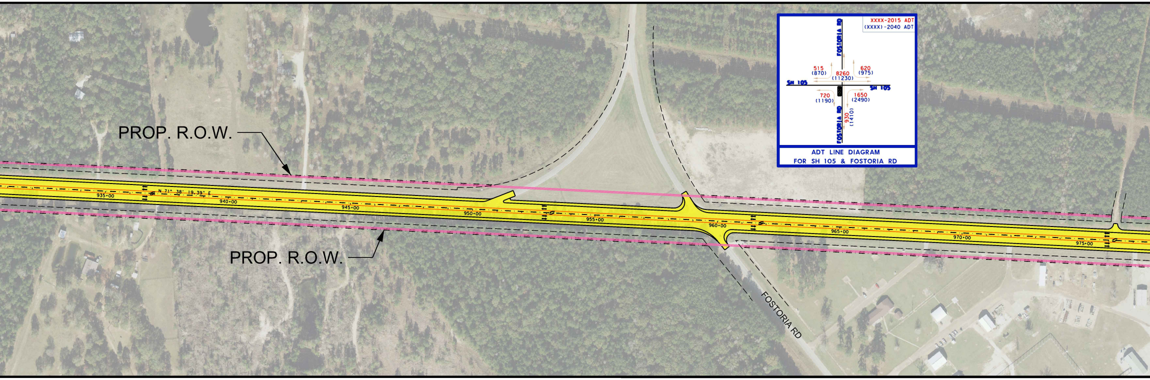
EXISTING TYPICAL SECTION
STA. 914+00 TO STA. 1050+00

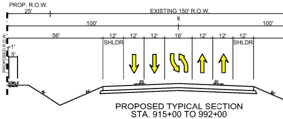

EXISTING 200' R.O.W.
B
100'
100'
1.21'
1.21'
50'
5'
12'
12'
12'
16'
12'
12'
12'
5'
50'
SHLDR
SHLDR
EXIST. R.O.W.
EXIST. R.O.W.
SSTR
SSTR
SDWLK
SDWLK
2%
2%
4:1
6:1
6:1
4:1

PROPOSED TYPICAL SECTION
STA. 905+00 TO 909+00

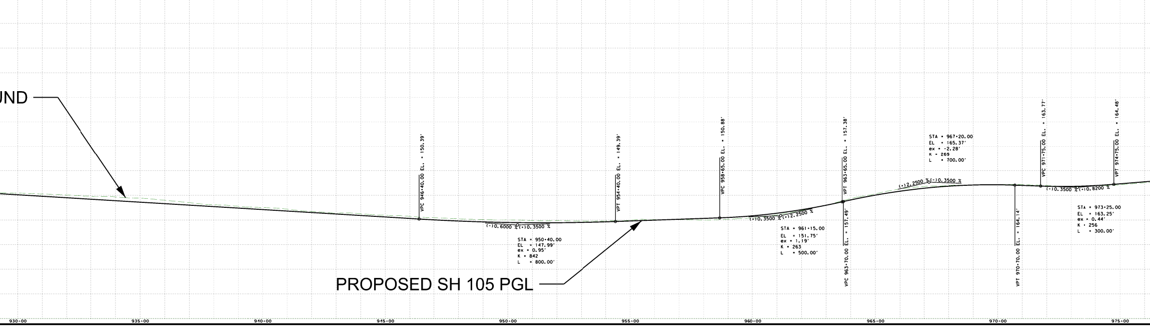
PROPOSED SH 105 PROFILE

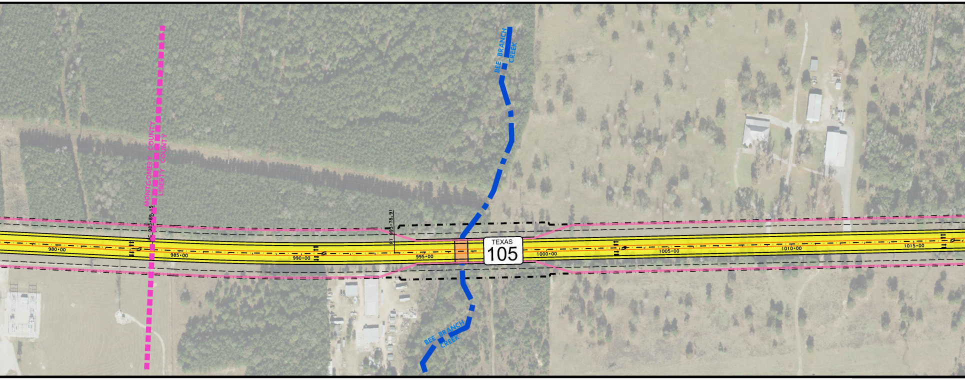


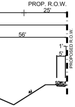

PROP. R.O.W.
N 71° 38' 19.39" E
935+00
940+00
945+00
950+00
955+00
960+00
965+00
970+00
975+00
PROP. R.O.W.
FOSTORIA RD
XXXX-2015 ADT
(XXXX)-2040 ADT
FOSTORIA RD
515
(870)
8260
(11230)
620
(975)
SH 105
SH 105
720
(1190)
1650
(2490)
930
(1410)
FOSTORIA RD
ADT LINE DIAGRAM
FOR SH 105 & FOSTORIA RD

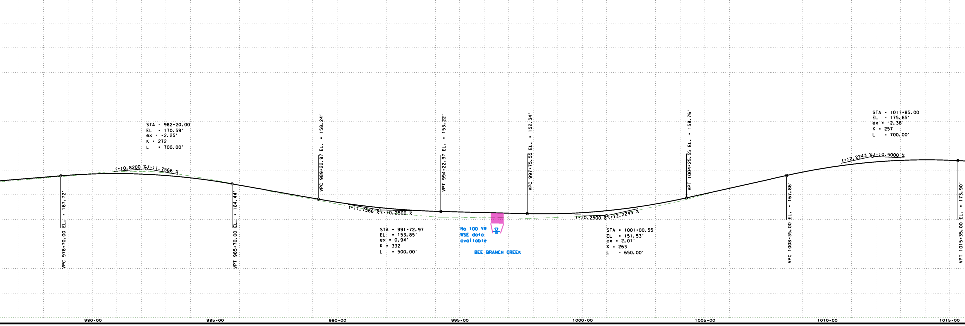

PROP. R.O.W.
25'
EXISTING 150' R.O.W.
℄
100'
100'
PROPOSED R.O.W.
56'
12'
12'
12'
16'
12'
12'
12'
SHLDR
SHLDR
1'
5'
SDWLK
4:1
6:1
2%
2%
6:1

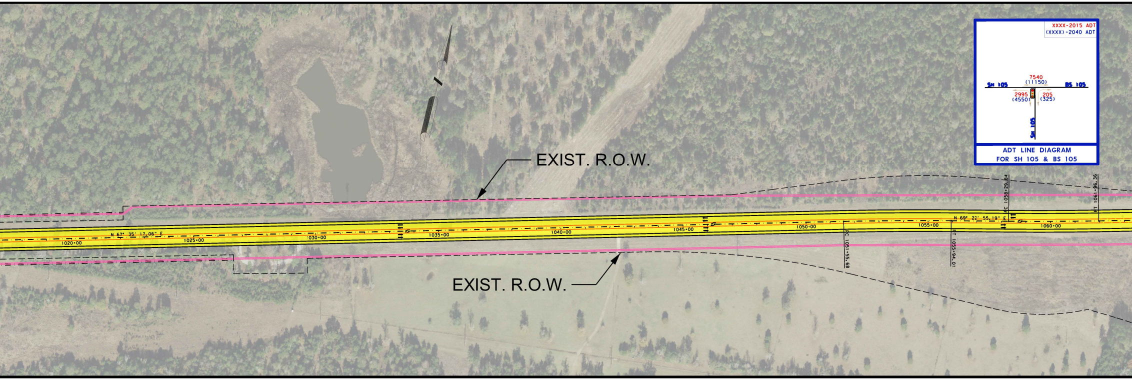
PROPOSED TYPICAL SECTION
STA. 915+00 TO 992+00

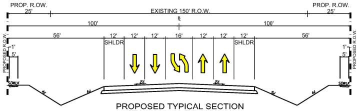



BEE BRANCH CREEK
MONTGOMERY COUNTY
LIBERTY COUNTY
PC 983+89.15
PT 995+78.91
TEXAS
105
980+00
985+00
990+00
995+00
1000+00
1005+00
1010+00
1015+00
BEE BRANCH CREEK

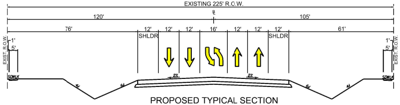

PROP. R.O.W.
25'
56'
1'
5'
PROPOSED R.O.W.
SDWLK


STA = 982+20.00
EL = 170.59'
ex = -2.25'
K = 272
L = 700.00'
(+)0.8200 %
(-)1.7566 %
VPC 978+70.00 EL. = 167.72'
VPT 985+70.00 EL. = 164.44'
VPC 989+22.97 EL. = 158.24'
(-)1.7566 %
(-)0.2500 %
STA = 991+72.97
EL = 153.85'
ex = 0.94'
K = 332
L = 500.00'
VPT 994+22.97 EL. = 153.22'
No 100 YR
WSE data
available
BEE BRANCH CREEK
VPC 997+75.55 EL. = 152.34'
(-)0.2500 %
(+)2.2243 %
STA = 1001+00.55
EL = 151.53'
ex = 2.01'
K = 263
L = 650.00'
VPT 1004+25.55 EL. = 158.76'
VPC 1008+35.00 EL. = 167.86'
STA = 1011+85.00
EL = 175.65'
ex = -2.38'
K = 257
L = 700.00'
(+)2.2243 %
(-)0.5000 %
VPT 1015+35.00 EL. = 173.90'
980+00
985+00
990+00
995+00
1000+00
1005+00
1010+00
1015+00

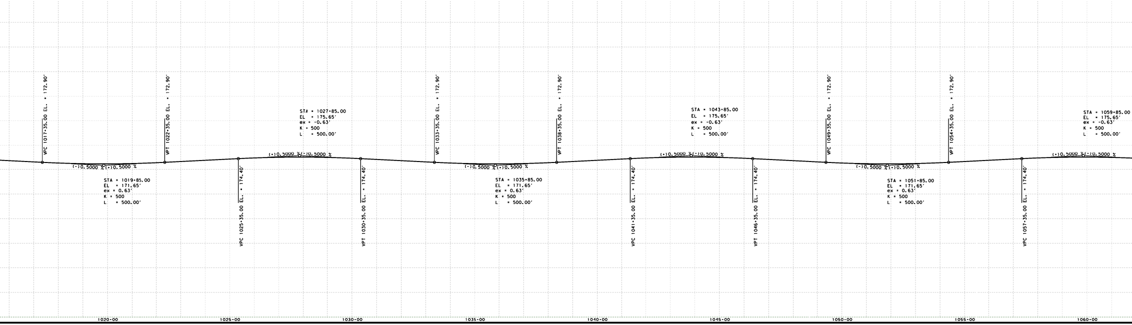

EXIST. R.O.W.
EXIST. R.O.W.
N 67° 35' 17.06" E
N 69° 22' 55.19" E
1020+00
1025+00
1030+00
1035+00
1040+00
1045+00
1050+00
1055+00
1060+00
PC 1051+55.68
PT 1055+94.01
PC 1058+29.84
PT 1061+96.36
XXXX-2015 ADT
(XXXX)-2040 ADT
7540
(11150)
2995
(4550)
205
(325)
SH 105
BS 105
SH 105
ADT LINE DIAGRAM
FOR SH 105 & BS 105

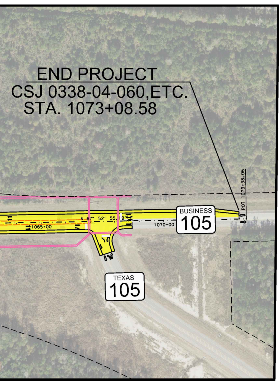

PROP. R.OW.
25'
EXISTING 150' R.O.W.
PROP. R.OW.
25'
100'
100'
℄
56'
12'
12'
12'
16'
12'
12'
12'
56'
SHLDR
SHLDR
PROPOSED R.O.W.
PROPOSED R.O.W.
1'
5'
1'
5'
SDWLK
SDWLK
2%
2%
6:1
6:1
6:1
6:1

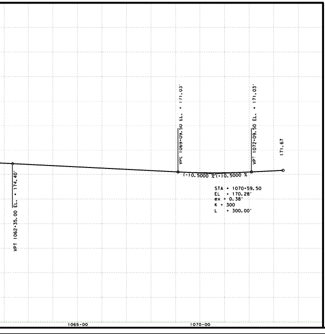
PROPOSED TYPICAL SECTION
STA. 1000+00 TO 1022+00


EXISTING 225' R.O.W.
℄
120'
105'
76'
12'
12'
12'
16'
12'
12'
12'
61'
SHLDR
SHLDR
EXIST. R.O.W.
EXIST. R.O.W.
1'
5'
1'
5'
SDWLK
SDWLK
2%
2%
6:1
6:1
6:1
6:1

PROPOSED TYPICAL SECTION
STA. 1030+00 TO 1045+00


VPC 1017+35.00 EL. = 172.90'
VPT 1022+35.00 EL. = 172.90'
VPC 1033+35.00 EL. = 172.90'
VPT 1038+35.00 EL. = 172.90'
VPC 1049+35.00 EL. = 172.90'
VPT 1054+35.00 EL. = 172.90'
STA = 1027+85.00
EL = 175.65'
ex = -0.63'
K = 500
L = 500.00'
STA = 1043+85.00
EL = 175.65'
ex = -0.63'
K = 500
L = 500.00'
STA = 1059+85.00
EL = 175.65'
ex = -0.63'
K = 500
L = 500.00'
(-)0.5000 %
(+)0.5000 %
(+)0.5000 %
(-)0.5000 %
(-)0.5000 %
(+)0.5000 %
(+)0.5000 %
(-)0.5000 %
(-)0.5000 %
(+)0.5000 %
(+)0.5000 %
(-)0.5000 %
STA = 1019+85.00
EL = 171.65'
ex = 0.63'
K = 500
L = 500.00'
STA = 1035+85.00
EL = 171.65'
ex = 0.63'
K = 500
L = 500.00'
STA = 1051+85.00
EL = 171.65'
ex = 0.63'
K = 500
L = 500.00'
VPC 1025+35.00 EL. = 174.40'
VPT 1030+35.00 EL. = 174.40'
VPC 1041+35.00 EL. = 174.40'
VPT 1046+35.00 EL. = 174.40'
VPC 1057+35.00 EL. = 174.40'
1020+00
1025+00
1030+00
1035+00
1040+00
1045+00
1050+00
1055+00
1060+00


END PROJECT
CSJ 0338-04-060,ETC.
STA. 1073+08.58
POT 1073+38.06
BUSINESS 105
N 67° 52' 55.19"
1065+00
1070+00
TEXAS 105


VPT 1062+35.00 EL. = 174.40'
VPC 1069+09.50 EL. = 171.03'
VPT 1072+09.50 EL. = 171.03'
171.67
(-)0.5000 %
(+)0.5000 %
STA = 1070+59.50
EL = 170.28'
ex = 0.38'
K = 300
L = 300.00'
1065+00
1070+00

HOUSTON DISTRICT
PROJECT DEVELOPMENT

PROPOSED SH 105

TEXAS 105

PRELIMINARY
SUBJECT TO CHANGE

ROADWAY: SH 105
COUNTIES: MONTGOMERY,SAN JACINTO, LIBERTY
LIMITS FROM: 10TH STREET
LIMITS TO: BUSINESS 105