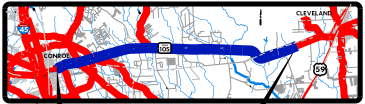
CLEVELAND
CONROE
45
105
59

SH 105
BEGIN PROJECT
STA. 50+00

VICINITY MAP
1"=10000'

SH 105
END PROJECT
STA. 1036+72

PLAN LEGEND

SYMBOLOGY	LINE WT	COLOR CODE	
MAIN LANES	5	BLACK	0
FRONTAGE ROADS AND RAMPS	1	BLUE	1
TURNAROUNDS	1	BLUE	1
EXISTING RDWY TO BE REMOVED	0	BLACK	0
EXISTING RDWY TO REMAIN	2	GREEN	2
EMBANKMENT	3	RED	3
CONTROL OF ACCESS	3	RED	3
PROPOSED ROW	5	BLACK	0
EXISTING ROW	0	BLACK	0
ACCESS ROAD	1	BLUE	1
PLANIMETRIC	2	GREEN	2
TRAFFIC COUNT YEAR (2023) ADT (000000)	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR ⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR ➡	0	BLACK	0
DIRECT CONNECTOR	4	ORANGE	6
DEPRESSED	3	RED	3
FUTURE	1	BLUE	1
RETAINING WALL	6	RED	3
STRIPING	0	ORANGE	6
HIGH OCCUPANCY VEHICLE (OL)	5	TURQUOISE	65
OVERHEAD EXPRESSWAY LANES (OL)	9	BROWN	7
TEMPORARY CONNECTIONS	10	PURPLE	37
RDWYWAY UNDER CONSTRUCTION	5	LT GREEN	197
RECOMMENDED NOISE ABATEMENT WALL	10	PURPLE	203
POTENTIAL HAZARDOUS MATERIAL SITES			
SAM HOUSTON NATIONAL FOREST BOUNDARY			
PROPOSED BRIDGE			
EXISTING BRIDGE			
PROPOSED SH 105 CENTERLINE W/ STATION 888+00			
CEMETERY			
PIPELINES			
COUNTY/CITY LIMITS			
HIGH POWER LINES			
PARKS & PICNIC AREAS			
WETLANDS			

NOTE: WATER SURFACE ELEVATIONS WERE OBTAINED OR DERIVED FROM FLOOD INSURANCE RATE MAPS (FIRM).

DESIGN SPEED: 45 MPH ON URBAN AREA
FROM 10TH STREET (PROJECT BEGINNING)
TO EAST OF WHIPPORWILL LANE (STA 255+00);

70 MPH ON RURAL AREA
FROM EAST OF WHIPPORWILL LANE (STA 255+00)
TO PROP LOOP 105 (PROJECT END)

FUNCTION CLASSIFICATION: ARTERIAL

SHEET 4 OF 4

Texas Department of Transportation

SH 105 IMPROVEMENTS
SCHEMATIC LAYOUT
MONTGOMERY, SAN JACINTO AND
LIBERTY COUNTIES

FROM: 10TH STREET
TO: LOOP 105

DATE: - -
APPROVED: - -

CSJ: 0338-04-060, 0338-04-65,
0338-04-066, 0338-06-011,
0338-07-019

HOUSTON DISTRICT

SCHEMATIC PREPARED BY:

S&B INFRASTRUCTURE, LTD.
Engineering • Management • Technology

DANIEL O. RIOS, P.E. PROJECT MANAGER

PROFILE LEGEND

PROP SH 105 PROFILE GRADE LINE (PGL)	▬
EXIST NATURAL GROUND @ PROP 105 CL	– – –
EXIST NATURAL GROUND @ LEFT / NORTH ROW	– – –
EXIST NATURAL GROUND @ RIGHT / SOUTH ROW	– – –
BRIDGE SUPER-STRUCTURE	🟥

SCALE:
H 1" = 100'
V 1" = 10'

PRELIMINARY
THIS PRINT IS FURNISHED FOR INFORMATION ONLY. THE PLAN INFORMATION OR OTHER DATA SHOWN HEREIN IS SUBJECT TO CHANGE AND MUST NOT BE CONSTRUED AS FINAL.

NOT A BIDDING DOCUMENT

DOUGLAS E. EMERY, P.E.
68709
TEXAS REGISTRATION NUMBER
NOVEMBER 18, 2005
DATE

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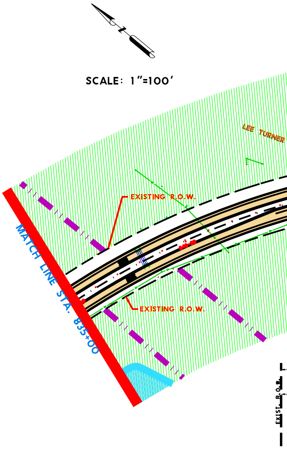
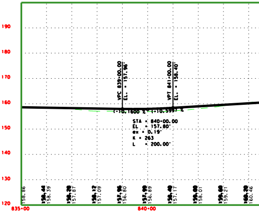
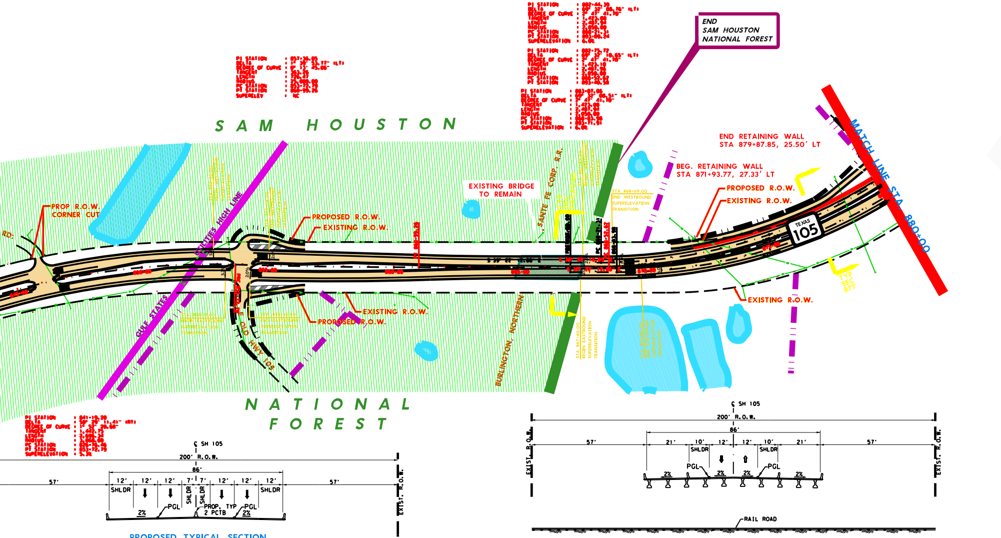
SCALE: 1"=100'

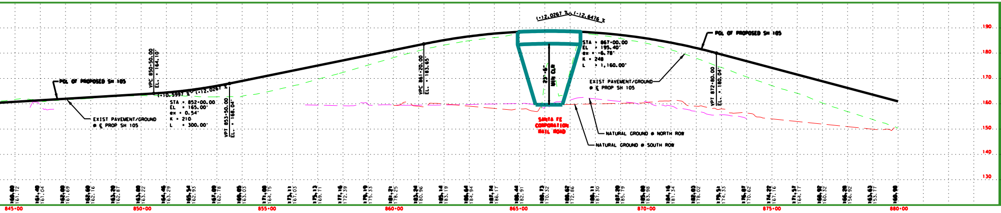

N
LEE TURNER
EXISTING R.O.W.
MATCH LINE STA. 835+00
EXISTING R.O.W.
EXIST R.O.W.

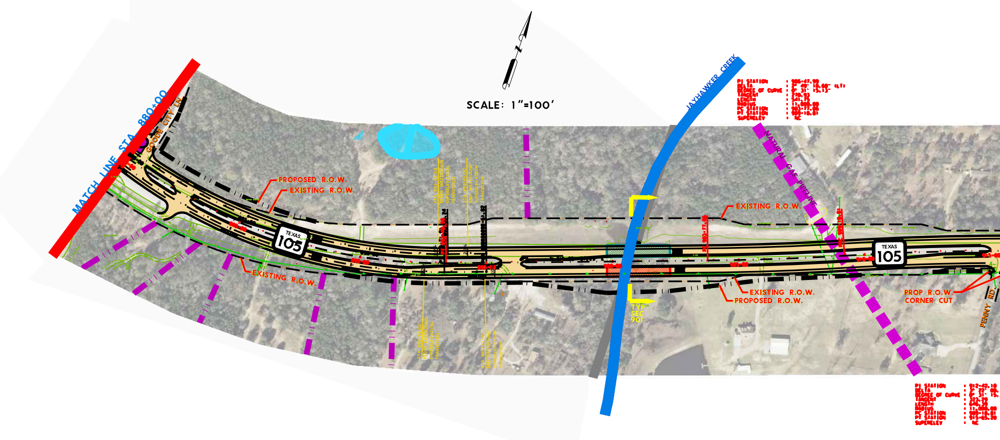


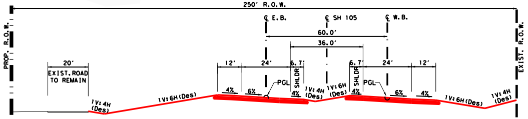

END
SAM HOUSTON
NATIONAL FOREST
SAM HOUSTON
NATIONAL FOREST
PROP R.O.W. CORNER CUT
RD.
UTILITIES HIGH LINE
GULF STATES
PROPOSED R.O.W.
EXISTING R.O.W.
EXISTING R.O.W.
PROPOSED R.O.W.
OLD HWY 105
EXISTING BRIDGE TO REMAIN
SANTE FE CORP. R.R.
BURLINGTON, NORTHERN
STA 868+69.00
END WESTBOUND
SUPERELEVATION
TRANSITION
STA 867+40.00
BEGIN EASTBOUND
SUPERELEVATION
TRANSITION
END RETAINING WALL
STA 879+87.85, 25.50' LT
BEG. RETAINING WALL
STA 871+93.77, 27.33' LT
PROPOSED R.O.W.
EXISTING R.O.W.
EXISTING R.O.W.
TEXAS
105
MATCH LINE STA. 880+00
TYP SEC 877
PI STATION
DELTA
DEGREE OF CURVE
TANGENT
LENGTH
RADIUS
PC STATION
PT STATION
SUPERELEVATION
C SH 105
200' R.O.W.
86'
57'
12'
12'
12'
7'
7'
12'
12'
12'
57'
SHLDR
SHLDR
SHLDR
SHLDR
PGL
PROP. TYP 2 PCTB
PGL
2%
2%
EXIST. R.O.W.
C SH 105
200' R.O.W.
86'
57'
21'
10'
12'
12'
10'
21'
57'
SHLDR
SHLDR
PGL
PGL
2%
2%
2%
2%
EXIST. R.O.W.
EXIST. R.O.W.
RAIL ROAD

PROPOSED TYPICAL SECTION
OF LANES ON EXIST BRIDGE

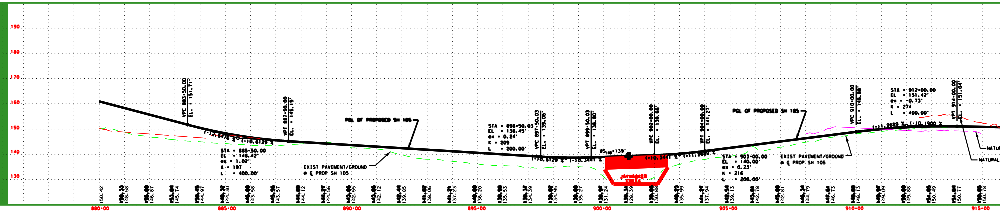
TYPICAL SECTION
OF EXIST BRIDGE OVER RAILROAD

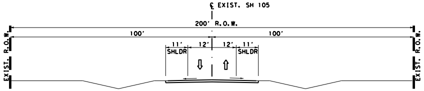

(-)12.0267 %
(-)12.6476 %
PGL OF PROPOSED SH 105
PGL OF PROPOSED SH 105
VPC 850+50.00
EL. = 164.10'
(-)0.5597 %
(-)12.0267 %
STA = 852+00.00
EL = 165.00'
ex = 0.54'
K = 210
L = 300.00'
VPT 853+50.00
EL. = 168.04'
EXIST PAVEMENT/GROUND
@ C PROP SH 105
VPC 861+20.00
EL. = 183.65'
23'-6" MIN CLR
STA = 867+00.00
EL = 195.40'
ex = -6.78'
K = 248
L = 1,160.00'
EXIST PAVEMENT/GROUND
@ C PROP SH 105
VPT 872+80.00
EL. = 180.04'
SANTA FE CORPORATION RAIL ROAD
NATURAL GROUND @ NORTH ROW
NATURAL GROUND @ SOUTH ROW
190
180
170
160
150
140
130
845+00
850+00
855+00
860+00
865+00
870+00
875+00
880+00


SCALE: 1"=100'
MATCH LINE STA. 880+00
GOODE CITY LN.
PROPOSED R.O.W.
EXISTING R.O.W.
TEXAS 105
EXISTING R.O.W.
JAYHAWKER CREEK
NATURAL GAS PIPELINE
EXISTING R.O.W.
TYP SEC 901
EXISTING R.O.W.
PROPOSED R.O.W.
PROP R.O.W. CORNER CUT
PENNY RD
TEXAS 105
PI STATION : 906+47.99
DELTA : 2° 49' 18.60" (LT)
DEGREE OF CURVE : 0° 31' 15.13"
TANGENT : 270.93
LENGTH : 541.75
RADIUS : 11,000.00
PC STATION : 903+77.06
PT STATION : 909+18.81
SUPERELEV : NC
PI STATION : 912+42.10
DELTA : 3° 22' 08.
DEGREE OF CURVE : 0° 31' 15.
TANGENT : 323.29
LENGTH : 646.39
RADIUS : 11,000.00
PC STATION : 909+18.81
PT STATION : 915+65.20
SUPERELEV : NC

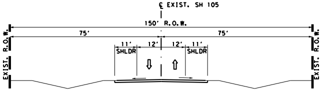

250' R.O.W.
PROP. R.O.W.
EXIST. R.O.W.
℄ E.B.
℄ SH 105
℄ W.B.
60.0'
36.0'
20'
EXIST. ROAD TO REMAIN
12'
24'
6.7'
SHLDR
PGL
4%
6%
4%
6.7'
SHLDR
24'
12'
PGL
4%
6%
4%
1V:4H (Des)
1V:6H (Des)
1V:4H (Des)
1V:6H (Des)
1V:6H (Des)
1V:4H (Des)

PROPOSED TYPICAL SECTION 877
ADJACENT TO EXISTING RAILROAD BRIDGE TO REMAIN

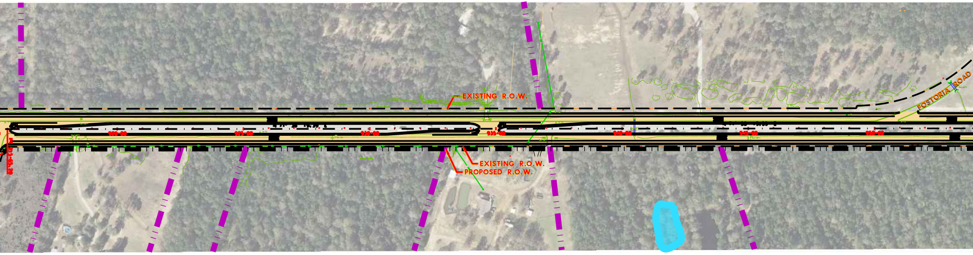

190
180
170
160
150
140
130
VPC 883+50.00
EL. = 151.71'
(-)2.6476 %
(-)0.6129 %
STA = 885+50.00
EL = 146.42'
ex = 1.02'
K = 197
L = 400.00'
VPT 887+50.00
EL. = 145.19'
PGL OF PROPOSED SH 105
EXIST PAVEMENT/GROUND
@ ℄ PROP SH 105
STA = 898+50.03
EL = 138.45'
ex = 0.24'
K = 209
L = 200.00'
VPC 897+50.03
EL. = 139.06'
(-)0.6129 %
(-)0.3441 %
VPT 899+50.03
EL. = 138.80'
WS100=139'
JAYHAWKER CREEK
VPC 902+00.00
EL. = 139.66'
(+)0.3441 %
(+)1.2689 %
VPT 904+00.00
EL. = 141.27'
STA = 903+00.00
EL = 140.00'
ex = 0.23'
K = 216
L = 200.00'
PGL OF PROPOSED SH 105
EXIST PAVEMENT/GROUND
@ ℄ PROP SH 105
VPC 910+00.00
EL. = 148.88'
STA = 912+00.00
EL = 151.42'
ex = -0.73'
K = 274
L = 400.00'
(+)1.2689 %
(-)0.1900 %
VPT 914+00.00
EL. = 151.04'
NATUR
NATURAL
150.42
148.58
146.87
145.74
144.97
144.30
143.58
143.57
144.12
144.56
142.55
142.12
139.85
138.06
137.23
136.20
135.53
134.39
134.95
135.27
131.24
128.39
130.88
135.99
137.94
139.13
142.78
142.81
144.79
146.73
148.13
149.09
149.88
150.49
150.77
150.78
880+00
885+00
890+00
895+00
900+00
905+00
910+00
915+00

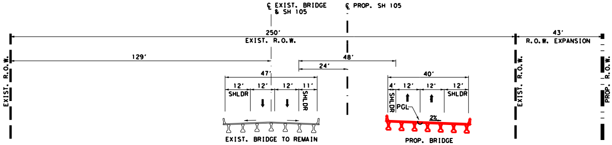

℄ EXIST. SH 105
200' R.O.W.
100'
100'
11'
12'
12'
11'
SHLDR
SHLDR
EXIST. R.O.W.
EXIST. R.O.W.

EXISTING TYPICAL SECTION
STA. 827+00 TO 913+00

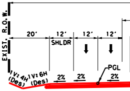

℄ EXIST. SH 105
150' R.O.W.
75'
75'
11'
12'
12'
11'
SHLDR
SHLDR
EXIST. R.O.W.
EXIST. R.O.W.

EXISTING TYPICAL SECTION
STA. 913+00 TO 1036+00


EXISTING R.O.W.
EXISTING R.O.W.
PROPOSED R.O.W.
FOSTORIA ROAD

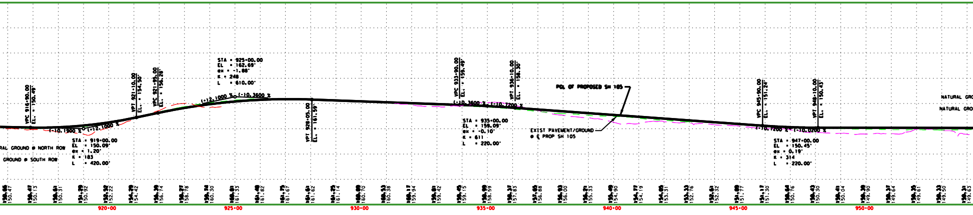

℄ EXIST. BRIDGE & SH 105
℄ PROP. SH 105
250'
EXIST. R.O.W.
43'
R.O.W. EXPANSION
129'
48'
24'
47'
12'
12'
12'
11'
SHLDR
SHLDR
40'
4'
12'
12'
12'
SHLDR
SHLDR
PGL
2%
EXIST. BRIDGE TO REMAIN
PROP. BRIDGE
EXIST. R.O.W.
EXIST. R.O.W.
PROP. R.O.W.

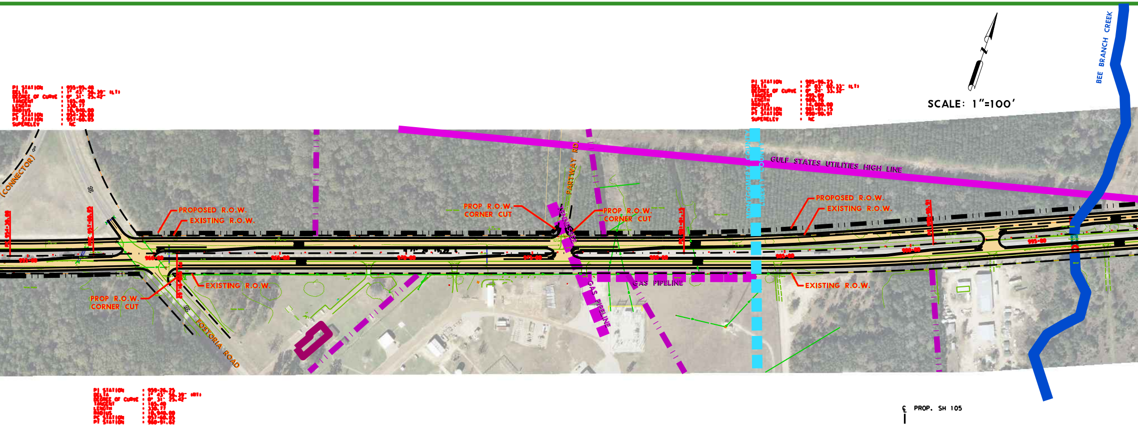
PROPOSED TYPICAL SECTION 901
FOR UTILIZING EXISTING BRIDGE

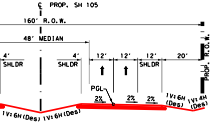

EXIST. R.O.W.
20'
12'
12'
12'
SHLDR
1V:4H (Des)
1V:6H (Des)
2%
2%
2%
PGL

PROPO

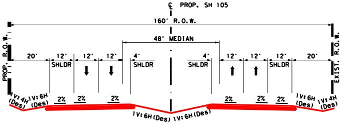
S



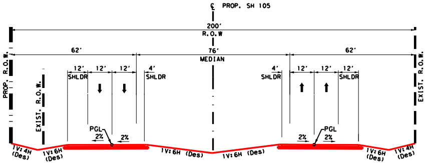

PI STATION : 955+95.40
DELTA : 1° 43' 36.30" (LT)
DEGREE OF CURVE : 0° 31' 25.47"
TANGENT : 165.40
LENGTH : 330.77
RADIUS : 10,940.00
PC STATION : 954+28.00
PT STATION : 957+60.85
SUPERELEV : NC
(CONNECTOR)
PROPOSED R.O.W.
EXISTING R.O.W.
PROP R.O.W. CORNER CUT
FOSTORIA ROAD
PARTWAY RD
GULF STATES UTILITIES HIGH LINE
MONTGOMERY COUNTY
LIBERTY COUNTY
GAS PIPELINE
SCALE: 1"=100'
BEE BRANCH CREEK
PI STATION : 985+96.23
DELTA : 4° 03' 09.33" (LT)
DEGREE OF CURVE : 0° 24' 33.24"
TANGENT : 495.09
LENGTH : 989.76
RADIUS : 14,000.00
PC STATION : 981+01.15
PT STATION : 990+90.91
SUPERELEV : NC
PI STATION : 959+26.25
DELTA : 1° 43' 36.30" (RT)
DEGREE OF CURVE : 0° 31' 25.47"
TANGENT : 165.40
LENGTH : 330.77
RADIUS : 10,940.00
PC STATION : 957+60.85
PT STATION : 960+91.62
SUPERELEV : NC


℄ PROP. SH 105
160' R.O.W.
48' MEDIAN
4' SHLDR
4' SHLDR
12' 12' 12' SHLDR 20'
PROP. R.O.W.
PGL
2% 2% 2%
1V:6H (Des) 1V:6H (Des)
1V:6H (Des) 1V:4H (Des)

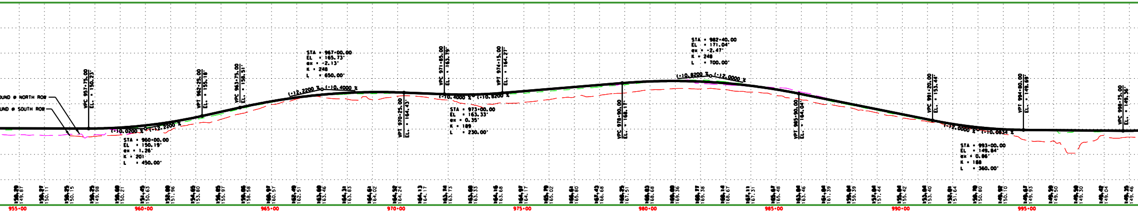
PROPOSED TYPICAL SECTION
STA. 917+60 TO 959+38

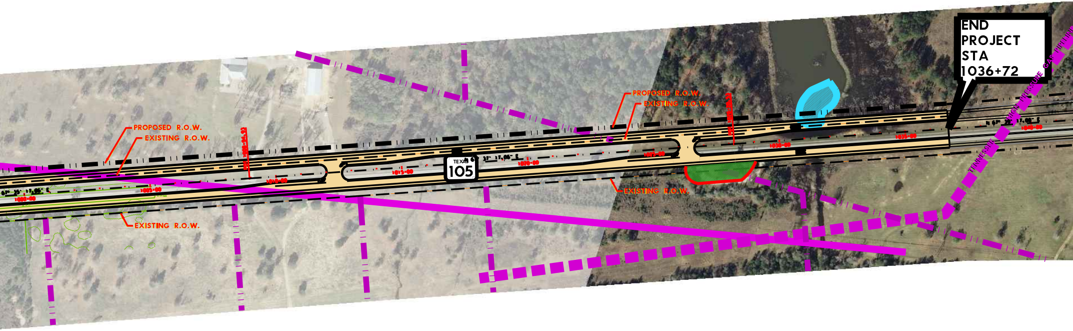

℄ PROP. SH 105
160' R.O.W.
48' MEDIAN
PROP. R.O.W.
20' 12' SHLDR 12' 12' 4' SHLDR
4' SHLDR 12' 12' 12' SHLDR 20'
EXIST. R.O.W.
2% 2% 2% 2% 2% 2%
1V:4H (Des) 1V:6H (Des)
1V:6H (Des) 1V:6H (Des)
1V:6H (Des) 1V:4H (Des)

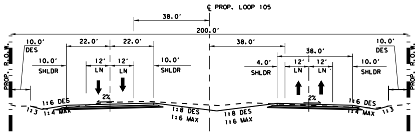
PROPOSED TYPICAL SECTION
STA. 959+38 TO 984+00


℄ PROP. SH 105
200' R.O.W
62' 76' MEDIAN 62'
PROP. R.O.W.
EXIST. R.O.W.
12' 12' 12' SHLDR 4' SHLDR
4' SHLDR 12' 12' 12' SHLDR
EXIST. R.O.W.
PGL
2% 2%
1V:4H (Des) 1V:6H (Des) 1V:6H (Des) 1V:6H (Des) 1V:6H (Des) 1V:4H (Des)

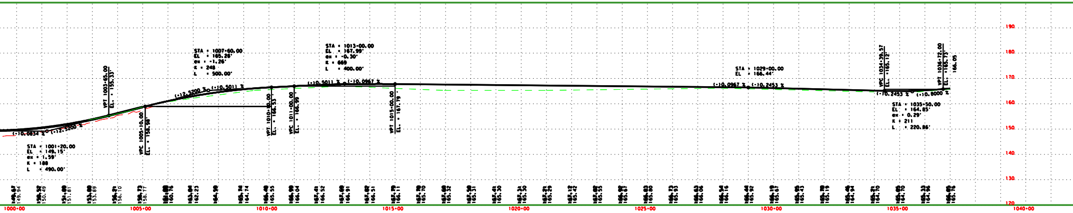
PROPOSED TYPICAL SECTION
STA. 984+00 TO 1036+00
IN LIBERTY COUNTY

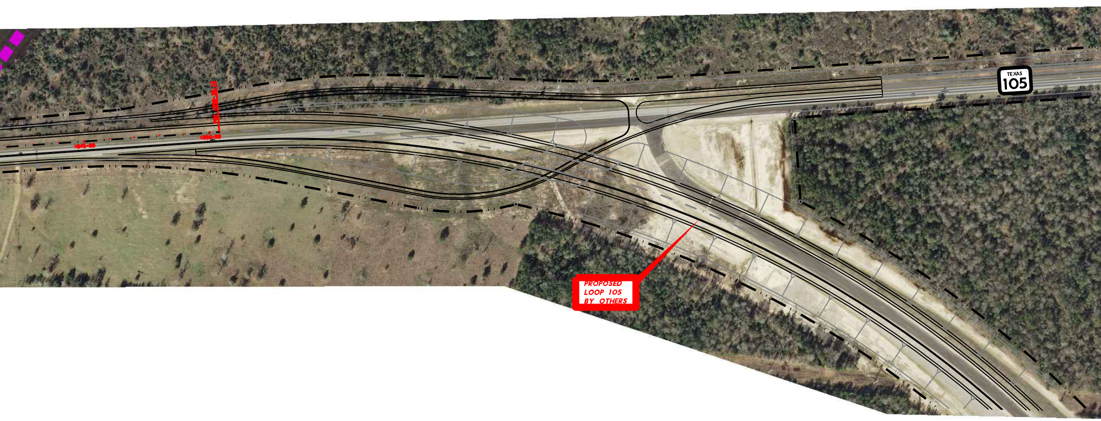


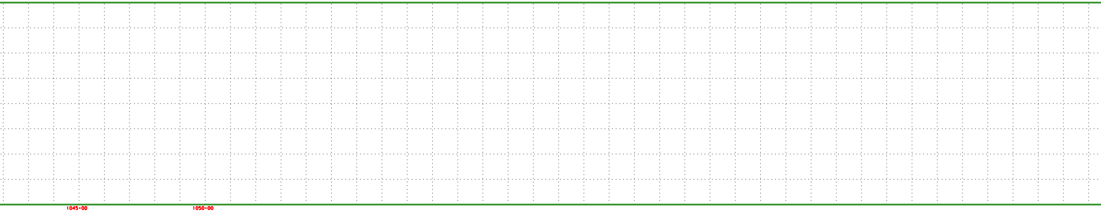

END PROJECT STA 1036+72
PROPOSED R.O.W.
EXISTING R.O.W.
PROPOSED R.O.W.
EXISTING R.O.W.
EXISTING R.O.W.
EXISTING R.O.W.
TEXAS 105
1000+00
1005+00
1010+00
1015+00
1020+00
1025+00
1030+00
1035+00
1040+00
HIGH PRESSURE GAS PIPELINE
TENNESSEE

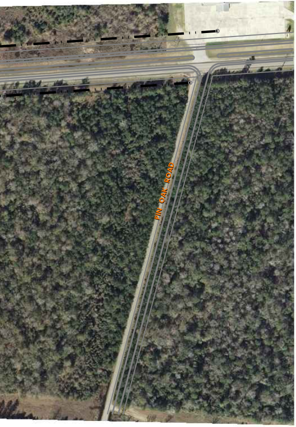

℄ PROP. LOOP 105
38.0'
200.0'
10.0' DES
22.0'
22.0'
38.0'
38.0'
10.0' DES
10.0' SHLDR
12' LN
12' LN
10.0' SHLDR
4.0' SHLDR
12' LN
12' LN
10.0' SHLDR
PROP. R.O.W.
PROP. R.O.W.
2%
2%
1:6 DES
1:4 MAX
1:3
1:8 DES
1:6 MAX
1:8 DES
1:6 MAX
1:6 DES
1:4 MAX
1:3

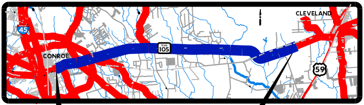
PROPOSED TYPICAL SECTION OF LOOP 105
(AT PROJECT END, BY OTHERS)




TEXAS
105
1045+00
1050+00
PROPOSED
LOOP 105
BY OTHERS




PIN OAK ROAD


CLEVELAND
CONROE
45
105
59

SH 105
BEGIN PROJECT
STA. 50+00

VICINITY MAP
1"=10000'

SH 105
END PROJECT
STA. 1036+72

PLAN LEGEND

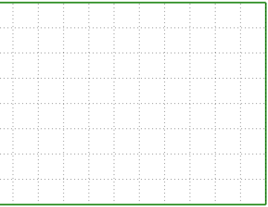
SYMBOLOGY		LINE WT	COLOR CODE	
MAIN LANES	━	5	BLACK	0
FRONTAGE ROADS AND RAMPS	─	1	BLUE	1
TURNAROUNDS	─	1	BLUE	1
EXISTING RDWY TO BE REMOVED	▨ ▨	0	BLACK	0
EXISTING RDWY TO REMAIN	─	2	GREEN	2
EMBANKMENT	━	3	RED	3
CONTROL OF ACCESS	━	3	RED	3
PROPOSED ROW	━ ╵╵	5	BLACK	0
EXISTING ROW	─ ─	0	BLACK	0
ACCESS ROAD	·······	1	BLUE	1
PLANIMETRIC	○	2	GREEN	2
TRAFFIC COUNT YEAR (2023) ADT	(000000)	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
DIRECT CONNECTOR	🟧	4	ORANGE	6
DEPRESSED	━	3	RED	3
FUTURE	─ ─ ─	1	BLUE	1
RETAINING WALL	🟥	6	RED	3
STRIPING	▰ ▰	0	ORANGE	6
HIGH OCCUPANCY VEHICLE	OL	5	TURQUOISE	65
OVERHEAD EXPRESSWAY LANES	OL	9	BROWN	7
TEMPORARY CONNECTIONS	🟪	10	PURPLE	37
RDWYWAY UNDER CONSTRUCTION	🟩	5	LT GREEN	197
RECOMMENDED NOISE ABATEMENT WALL	🟪	10	PURPLE	203
POTENTIAL HAZARDOUS MATERIAL SITES	◆			
SAM HOUSTON NATIONAL FOREST BOUNDARY	▨			
PROPOSED BRIDGE	▨			
EXISTING BRIDGE	▨			
PROPOSED SH 105 CENTERLINE W/ STATION	━ ╵ ━ 888+00			
CEMETERY	🟩			
PIPELINES	🟧			
COUNTY/CITY LIMITS	🟦			
HIGH POWER LINES	🟪			
PARKS & PICNIC AREAS	▨			
WETLANDS	🟦			

NOTE: WATER SURFACE ELEVATIONS WERE OBTAINED OR DERIVED FROM FLOOD INSURANCE RATE MAPS (FIRM).

DESIGN SPEED: 45 MPH ON URBAN AREA
FROM 10TH STREET (PROJECT BEGINNING)
TO EAST OF WHIPPORWILL LANE (STA 255+00);

70 MPH ON RURAL AREA
FROM EAST OF WHIPPORWILL LANE (STA 255+00)
TO PROP LOOP 105 (PROJECT END)

FUNCTION CLASSIFICATION: ARTERIAL



PROFILE LEGEND

PROP SH 105 PROFILE GRADE LINE (PGL)	━
EXIST NATURAL GROUND @ PROP 105 CL	─ ─ ─ ─
EXIST NATURAL GROUND @ LEFT / NORTH ROW	─ ─ ─ ─
EXIST NATURAL GROUND @ RIGHT / SOUTH ROW	─ ─ ─ ─
BRIDGE SUPER-STRUCTURE	🟥

SCALE:
H 1" = 100'
V 1" = 10'

SHEET 4 OF 4

SH 105 IMPROVEMENTS
SCHEMATIC LAYOUT
MONTGOMERY, SAN JACINTO AND
LIBERTY COUNTIES

Texas
Department
of Transportation

FROM: 10TH STREET
TO: LOOP 105

DATE: - -
APPROVED: - -

CSJ: 0338-04-060, 0338-04-65,
0338-04-066, 0338-06-011,
0338-07-019

HOUSTON DISTRICT

PRELIMINARY

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NOT A BIDDING DOCUMENT

DOUGLAS E. EMERY, P.E.
68709
TEXAS REGISTRATION NUMBER
NOVEMBER 18, 2005
DATE

SCHEMATIC PREPARED BY:

S&B INFRASTRUCTURE, LTD.
Engineering Management Technology

DANIEL O. RIOS, P.E. PROJECT MANAGER

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