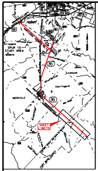
HIGHWAY: SH 36
DESCRIPTION:
FROM: FM 2218
TO: FORT BEND COUNTY LINE
CSJ NO.: 0187-05-048, ETC. REVISION DATE:
FILE NO.: APPROVAL DATE:


Friedens
SPUR 10
STUDY AREA
NEEDVILLE
36
36
SHEET LIMITS
FORT BEND COUNTY

VICINITY MAP

N.T.S.

**RURAL ARTERIAL DESIGN
SPEED IS 70 MPH**

**URBAN CURB & GUTTER
SECTION DESIGN
SPEED IS 40 MPH**

SCHEMATIC LAYOUT
FORT BEND COUNTY
SH36
Texas Department of Transportation
FROM: FM 2218
TO: FORT BEND COUNTY LINE
HOUSTON DISTRICT
DATE: : :
ORIGINAL APPROVED: : :
REVISED: : :
REVISION(S) APPROVED: : :

SCALE: 0 100 200 300 400

LEGEND

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
PROP ROW	━ · ━	5	BLACK	0
EXISTING ROW	— —	0	BLACK	0
ACCESS ROAD	······	1	BLUE	1
PLANIMETRIC	♡	2	GREEN	2
TRAFFIC COUNT YEAR (2021) DHV	▬	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
DIRECT CONNECTOR	─	4	ORANGE	6
DEPRESSED	─ˇ─ˇ─	3	RED	3
FUTURE	- - -	1	BLUE	1
RETAINING WALL	━	6	RED	3
STRIPING	▰ ▰	0	ORANGE	6
HIGH OCCUPANCY VEHICLE	▬	7	TURQUOISE	65
OVERHEAD EXPRESSWAY LANES	▬	9	BROWN	7
TEMPORARY CONNECTIONS	▬	10	PURPLE	37
RDWY. UNDER CONSTRUCTION	─	5	LT GREEN	197
RECOMMENDED NOISE ABATEMENT WALL	▬	10	PURPLE	203

PROFILE LEGEND

PROP. PGL	─
EXIST. PGL	— —
EXISTING GROUND	— —
EXISTING R.O.W. LT	— —
EXISTING R.O.W. RT	— —
100 YEAR WATER SURFACE ELEVATION	─

100 YEAR WATER SURFACE ELEVATION

UTILITY LEGEND

EXISTING TELEPHONE COPPER CABLE	— — ●— — —
EXISTING PVC CONTAINING TELEPHONE LINES (UNLESS NOTED OTHERWISE)	— — T— — —
EXISTING WATERLINE	— — ●— — —
EXISTING GAS UTILITY OR GAS PIPELINE	— — GAS— — —
EXISTING TELEPHONE PULL BOX	■
EXISTING TELEPHONE MANHOLE	●
EXISTING TELEPHONE EQUIPMENT ROOM OR SHELTER	▼
PRIVATE WATER WELL	⊙W
EXISTING CASING	▬
PROPOSED CASING	▬
EASEMENT	— — — —

© 2003

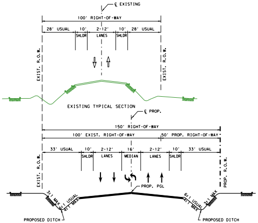
Texas Department of Transportation

BROWN & GAY ENGINEERS, INC.
CIVIL ENGINEERS & SURVEYORS
HOUSTON, TEXAS

STATE HIGHWAY 36

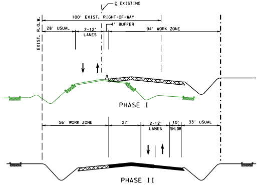
SCHEMATIC LAYOUT

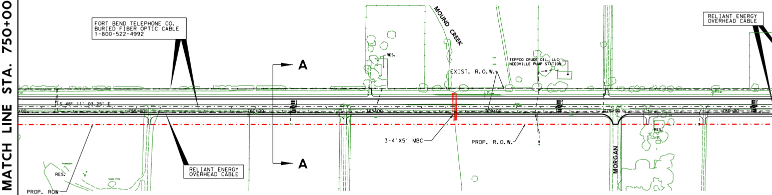
SHEET 3 OF 3


℄ EXISTING
100' RIGHT-OF-WAY
28' USUAL
10' SHLDR
2-12' LANES
10' SHLDR
28' USUAL
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
150' RIGHT-OF-WAY
100' EXIST. RIGHT-OF-WAY
50' PROP. RIGHT-OF-WAY
33' USUAL
10' SHLDR
2-12' LANES
16' MEDIAN
2-12' LANES
10' SHLDR
33' USUAL
EXIST. R.O.W.
PROP. R.O.W.
PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH

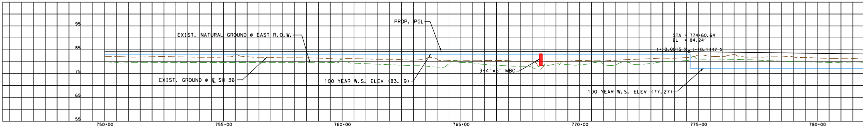
PROPOSED FLUSH MEDIAN SECTION
SCALE: 1"=20'
SECTION A-A
STA 750+00 - STA 795+00

CONSTRUCTION SEQUENCE FOR SECTION A-A

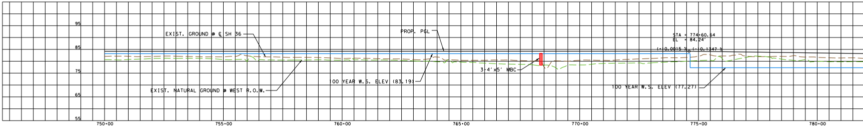

℄ EXISTING
100' EXIST. RIGHT-OF-WAY
EXIST. R.O.W.
28' USUAL
2-12' LANES
4' BUFFER
94' WORK ZONE
PHASE I
56' WORK ZONE
27'
2-12' LANES
10' SHLDR
33' USUAL
PHASE II

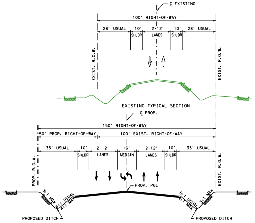

MATCH LINE STA. 750+00
FORT BEND TELEPHONE CO.
BURIED FIBER OPTIC CABLE
1-800-522-4992
S 48° 11' 03.25" E
755+00
760+00
765+00
770+00
775+00
780+00
A
A
RES.
RES.
RES.
PROP. ROW
RELIANT ENERGY
OVERHEAD CABLE
MOUND CREEK
TEPPCO CRUDE OIL, LLC
NEEDVILLE PUMP STATION
EXIST. R.O.W.
3-4'X5' MBC
PROP. R.O.W.
MORGAN
RELIANT ENERGY
OVERHEAD CABLE

NB PROFILE



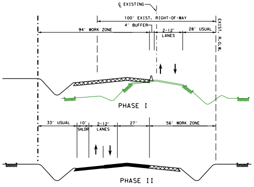
SB PROFILE

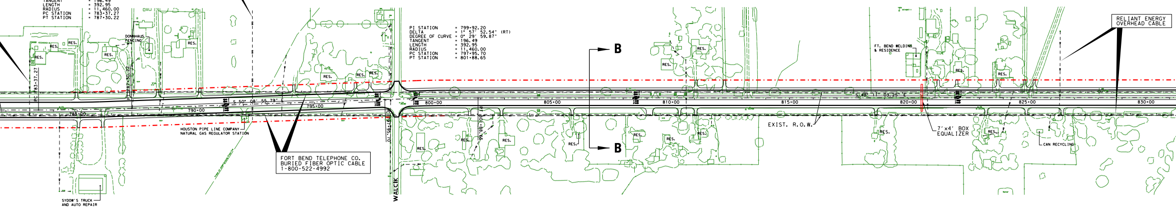


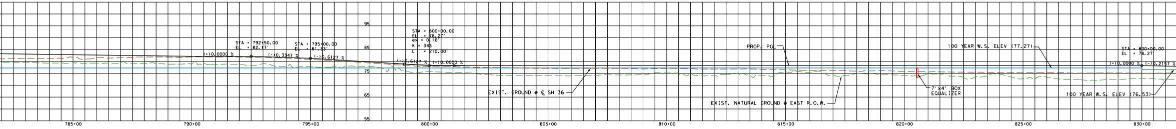

℄ EXISTING
100' RIGHT-OF-WAY
28' USUAL
10'
SHLDR
2-12'
LANES
10'
SHLDR
28' USUAL
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
150' RIGHT-OF-WAY
50' PROP. RIGHT-OF-WAY
100' EXIST. RIGHT-OF-WAY
33' USUAL
10'
SHLDR
2-12'
LANES
16'
MEDIAN
2-12'
LANES
10'
SHLDR
33' USUAL
PROP. R.O.W.
EXIST. R.O.W.
PROP. PGL
3:1 MAX
6:1 USUAL
4:1 MAX
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH

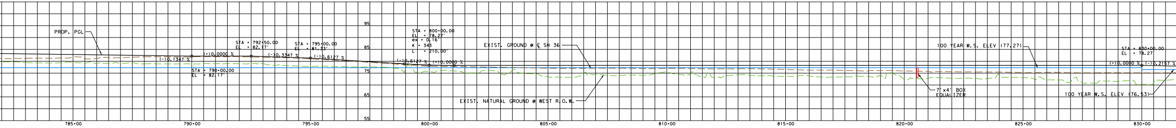
PROPOSED FLUSH MEDIAN SECTION
SCALE: 1"=20'
SECTION B-B
STA 795+00 - STA 845+00

CONSTRUCTION SEQUENCE FOR SECTION B-B

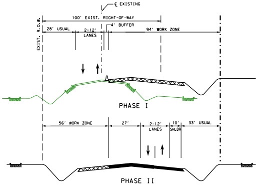

℄ EXISTING
100' EXIST. RIGHT-OF-WAY
4' BUFFER
94' WORK ZONE
2-12'
LANES
28' USUAL
EXIST. R.O.W.
PHASE I
33' USUAL
10'
SHLDR
2-12'
LANES
27'
56' WORK ZONE
PHASE II

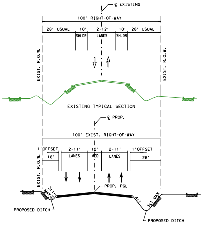

HOUSTON PIPELINE CO.
(WHARTON DISTRICT)-
ENRON GAS PIPELINE
OPERATING COMPANY
713-225-7444
PI STATION = 785+33.76
DELTA = 1° 57' 52.54" (LT)
DEGREE OF CURVE = 0° 29' 59.87"
TANGENT = 196.49
LENGTH = 392.95
RADIUS = 11,460.00
PC STATION = 783+37.27
PT STATION = 787+30.22
RES.
RES.
RES.
RES.
DONNHAUS FENCING
RES.
RES.
RES.
RES.
PC 783+37.27
PT 787+30.22
S 50° 08' 55.79" E
785+00
790+00
795+00
HOUSTON PIPE LINE COMPANY NATURAL GAS REGULATOR STATION
SYDOW'S TRUCK AND AUTO REPAIR
FORT BEND TELEPHONE CO.
BURIED FIBER OPTIC CABLE
1-800-522-4992
WALCIK
PC 797+95.70
PT 801+88.65
PI STATION = 799+92.20
DELTA = 1° 57' 52.54" (RT)
DEGREE OF CURVE = 0° 29' 59.87"
TANGENT = 196.49
LENGTH = 392.95
RADIUS = 11,460.00
PC STATION = 797+95.70
PT STATION = 801+88.65
800+00
805+00
810+00
815+00
820+00
825+00
830+00
B
B
RES.
RES.
RES.
RES.
RES.
RES.
RES.
RES.
RES.
RES.
FT. BEND WELDING & RESIDENCE
S 48° 11' 03.25" E
EXIST. R.O.W.
7'x4' BOX EQUALIZER
CAN RECYCLING
RELIANT ENERGY
OVERHEAD CABLE





CONSTRUCTION SEQUENCE FOR SECTION C-C

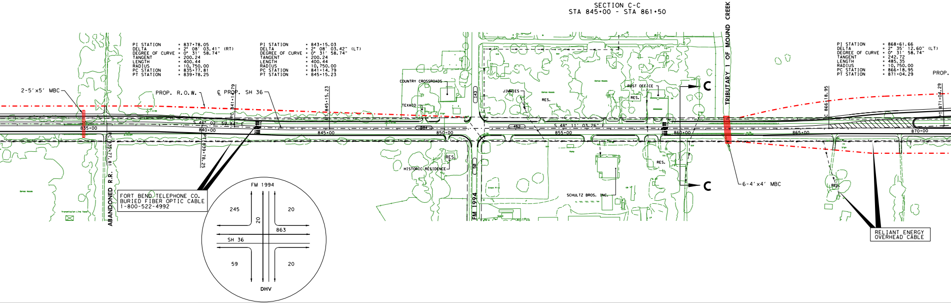

℄ EXISTING
100' EXIST. RIGHT-OF-WAY
EXIST. R.O.W.
28' USUAL
2-12' LANES
4' BUFFER
94' WORK ZONE
PHASE I
56' WORK ZONE
27'
2-12' LANES
10' SHLDR
33' USUAL
PHASE II


℄ EXISTING
100' RIGHT-OF-WAY
28' USUAL
10' SHLDR
2-12' LANES
10' SHLDR
28' USUAL
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
100' EXIST. RIGHT-OF-WAY
1' OFFSET
16'
2-11' LANES
12' MED
2-11' LANES
1' OFFSET
26'
EXIST. R.O.W.
3:1 MAX
PROP. PGL
4:1
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH

PROPOSED FLUSH MEDIAN SECTION

SCALE: 1"=20'

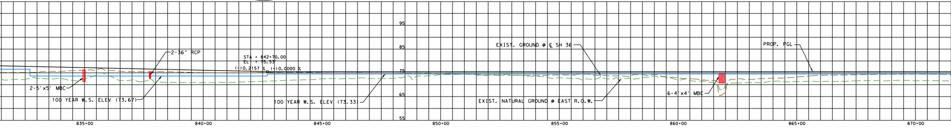
SECTION C-C
STA 845+00 - STA 861+50

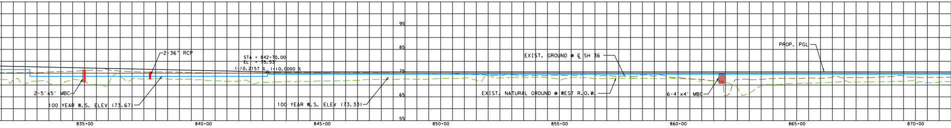

2-5'x5' MBC
PROP. R.O.W.
℄ PROP. SH 36
PC 841+14.79
PT 845+15.23
S 46° 02' 59.84" E
835+00
840+00
845+00
850+00
855+00
860+00
865+00
870+00
PC 835+77.81
PT 839+78.25
ABANDONED R.R.
FORT BEND TELEPHONE CO.
BURIED FIBER OPTIC CABLE
1-800-522-4992
COUNTRY CROSSROADS
TEXACO
RES.
HISTORIC RESIDENCE
FM 1994
143
58
JIMMIES
RES.
S 48° 11' 03.26" E
POST OFFICE
RES.
RES.
SCHULTZ BROS. INC.
C
C
TRIBUTARY 1 OF MOUND CREEK
6-4'x4' MBC
PC 866+18.95
PT 871+04.29
PROP.
RES.
RELIANT ENERGY OVERHEAD CABLE
FM 1994
245
20
20
863
SH 36
59
20
DHV

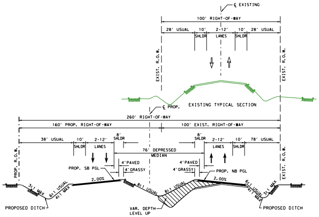
PI STATION = 837+78.05
DELTA = 2° 08' 03.41" (RT)
DEGREE OF CURVE = 0° 31' 58.74"
TANGENT = 200.24
LENGTH = 400.44
RADIUS = 10,750.00
PC STATION = 835+77.81
PT STATION = 839+78.25

PI STATION = 843+15.03
DELTA = 2° 08' 03.42" (LT)
DEGREE OF CURVE = 0° 31' 58.74"
TANGENT = 200.24
LENGTH = 400.44
RADIUS = 10,750.00
PC STATION = 841+14.79
PT STATION = 845+15.23

PI STATION = 868+61.66
DELTA = 2° 35' 12.60" (LT)
DEGREE OF CURVE = 0° 31' 58.74"
TANGENT = 242.72
LENGTH = 485.35
RADIUS = 10,750.00
PC STATION = 866+18.95
PT STATION = 871+04.29

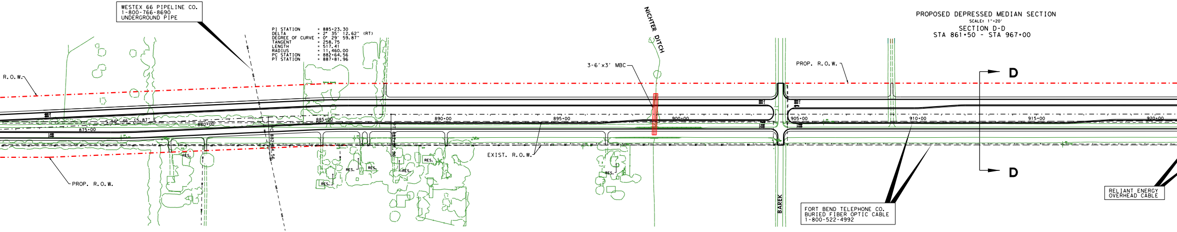




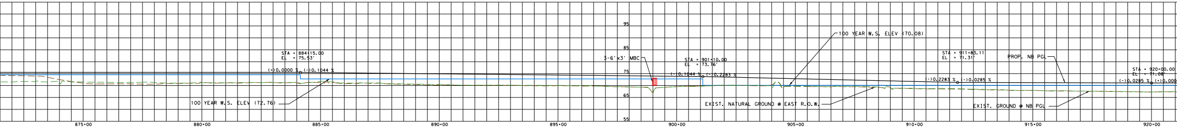


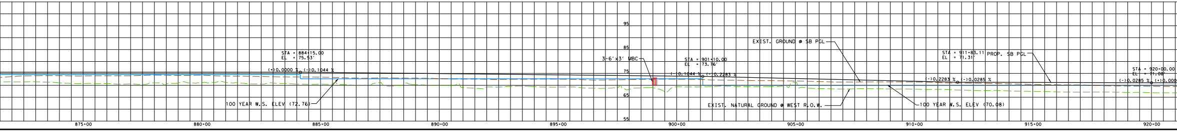
℄ EXISTING
100' RIGHT-OF-WAY
28' USUAL
10' SHLDR
2-12' LANES
10' SHLDR
28' USUAL
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
260' RIGHT-OF-WAY
160' PROP. RIGHT-OF-WAY
100' EXIST. RIGHT-OF-WAY
38' USUAL
10' SHLDR
2-12' LANES
8' SHLDR
76' DEPRESSED MEDIAN
8' SHLDR
2-12' LANES
10' SHLDR
78' USUAL
PROP. R.O.W.
EXIST. R.O.W.
4' PAVED
4' GRASSY
4' PAVED
4' GRASSY
PROP. SB PGL
PROP. NB PGL
2.00%
2.00%
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL
8:1 USUAL
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
VAR. DEPTH LEVEL UP
PROPOSED DITCH

PROPOSED DEPRESSED MEDIAN SECTION
SCALE: 1"=20'
SECTION D-D
STA 861+50 - STA 967+00

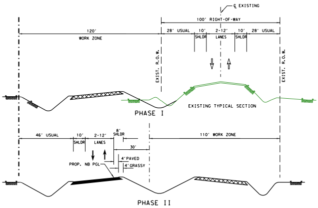


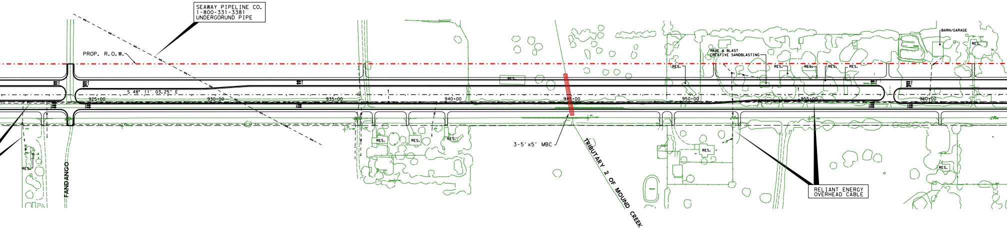
WESTEX 66 PIPELINE CO.
1-800-766-8690
UNDERGROUND PIPE
PI STATION = 885+23.30
DELTA = 2° 35' 12.62" (RT)
DEGREE OF CURVE = 0° 29' 59.87"
TANGENT = 258.75
LENGTH = 517.41
RADIUS = 11,460.00
PC STATION = 882+64.56
PT STATION = 887+81.96
NICHTER DITCH
3-6'x3' MBC
PROP. R.O.W.
R.O.W.
S 50° 46' 15.87" E
875+00
880+00
885+00
890+00
895+00
900+00
905+00
910+00
915+00
920+00
PC 882+64.56
PT 887+81.96
RES.
RES.
RES.
RES.
RES.
RES.
RES.
RES.
RES.
EXIST. R.O.W.
PROP. R.O.W.
BAREK
D
D
FORT BEND TELEPHONE CO.
BURIED FIBER OPTIC CABLE
1-800-522-4992
RELIANT ENERGY
OVERHEAD CABLE

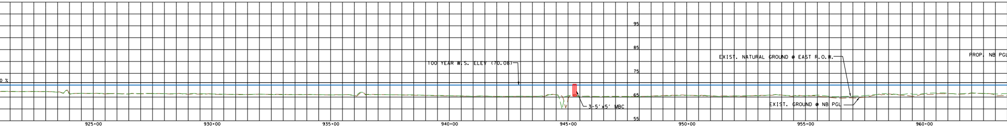


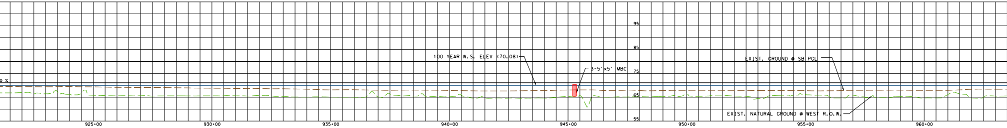


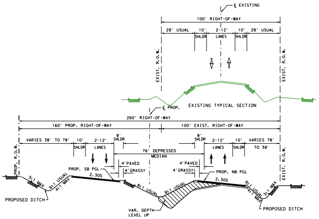
CONSTRUCTION SEQUENCE FOR SECTIONS D-D TO F-F


℄ EXISTING
100' RIGHT-OF-WAY
120'
WORK ZONE
28' USUAL
10' SHLDR
2-12' LANES
10' SHLDR
28' USUAL
EXIST. R.O.W.
EXIST. R.O.W.
PHASE I
EXISTING TYPICAL SECTION
46' USUAL
10' SHLDR
2-12' LANES
8' SHLDR
30'
110' WORK ZONE
4' PAVED
4' GRASSY
PROP. NB PGL
PHASE II


SEAWAY PIPELINE CO.
1-800-331-3381
UNDERGORUND PIPE
PROP. R.O.W.
S 48° 11' 03.25" E
925+00
930+00
935+00
940+00
945+00
950+00
955+00
960+00
RES.
RES.
RES.
RES.
RES.
HAVE A BLAST
CREATIVE SANDBLASTING
RES.
RES.
RES.
RES.
BARN/GARAGE
RES.
RES.
RES.
RES.
FANDANGO
3-5'x5' MBC
TRIBUTARY 2 OF MOUND CREEK
RELIANT ENERGY
OVERHEAD CABLE



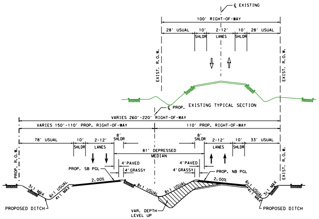



℄ EXISTING
100' RIGHT-OF-WAY
28' USUAL
10' SHLDR
2-12' LANES
10' SHLDR
28' USUAL
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
260' RIGHT-OF-WAY
160' PROP. RIGHT-OF-WAY
100' EXIST. RIGHT-OF-WAY
VARIES 38' TO 78'
10' SHLDR
2-12' LANES
8' SHLDR
76' DEPRESSED MEDIAN
8' SHLDR
2-12' LANES
10' SHLDR
VARIES 78' TO 38'
PROP. R.O.W.
4'PAVED
4'GRASSY
4'PAVED
4'GRASSY
PROP. SB PGL
PROP. NB PGL
2.30%
2.30%
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL
8:1 USUAL
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH
VAR. DEPTH LEVEL UP
EXIST. R.O.W.

PROPOSED DEPRESSED MEDIAN SECTION

SCALE: 1"=20'

SECTION E-E
STA 967+00 - STA 986+00

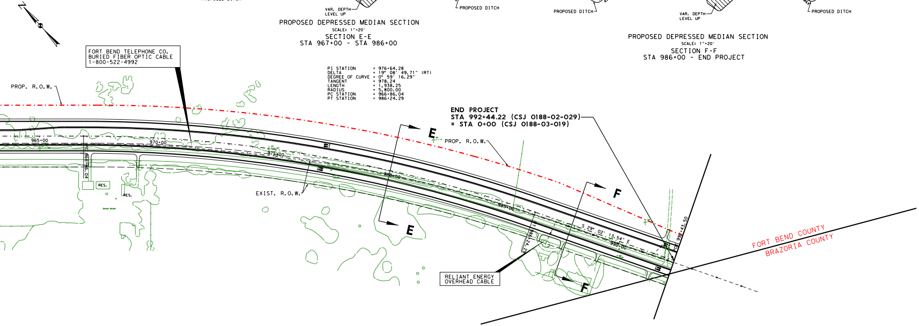

℄ EXISTING
100' RIGHT-OF-WAY
28' USUAL
10' SHLDR
2-12' LANES
10' SHLDR
28' USUAL
EXIST. R.O.W.
EXIST. R.O.W.
EXISTING TYPICAL SECTION
℄ PROP.
VARIES 260'-220' RIGHT-OF-WAY
VARIES 150'-110' PROP. RIGHT-OF-WAY
110' PROP. RIGHT-OF-WAY
78' USUAL
10' SHLDR
2-12' LANES
8' SHLDR
81' DEPRESSED MEDIAN
8' SHLDR
2-12' LANES
10' SHLDR
33' USUAL
PROP. R.O.W.
4'PAVED
4'GRASSY
4'PAVED
4'GRASSY
PROP. SB PGL
PROP. NB PGL
2.00%
2.00%
3:1 MAX
6:1 USUAL
4:1 MAX
8:1 USUAL
8:1 USUAL
6:1 USUAL
4:1 MAX
3:1 MAX
PROPOSED DITCH
PROPOSED DITCH
VAR. DEPTH LEVEL UP
EXIST. R.O.W.

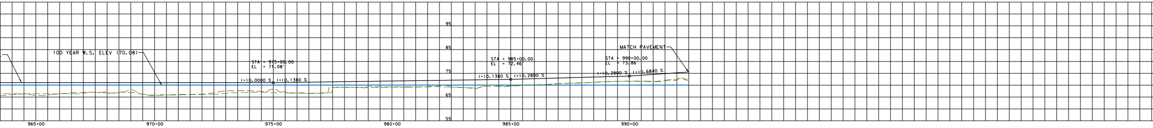
PROPOSED DEPRESSED MEDIAN SECTION

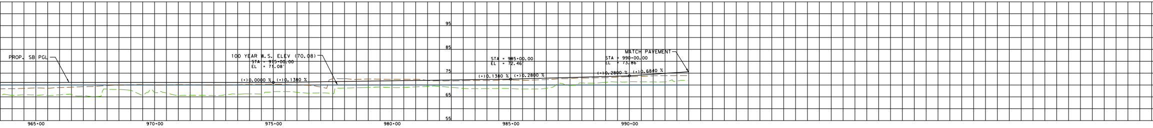
SCALE: 1"=20'

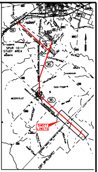
SECTION F-F
STA 986+00 - END PROJECT

PI STATION = 976+64.28
DELTA = 19° 08' 49.71" (RT)
DEGREE OF CURVE = 0° 59' 16.29"
TANGENT = 978.24
LENGTH = 1,938.25
RADIUS = 5,800.00
PC STATION = 966+86.04
PT STATION = 986+24.29


N
FORT BEND TELEPHONE CO.
BURIED FIBER OPTIC CABLE
1-800-522-4992
PROP. R.O.W.
END PROJECT
STA 992+44.22 (CSJ 0188-02-029)
= STA 0+00 (CSJ 0188-03-019)
E
E
PROP. R.O.W.
965+00
970+00
975+00
980+00
985+00
990+00
PC 966+86.04
RES.
RES.
EXIST. R.O.W.
F
F
S 29° 02' 13.54" E
PT 986+24.29
POE 992+43.50
RELIANT ENERGY
OVERHEAD CABLE
FORT BEND COUNTY
BRAZORIA COUNTY







Frieden
SPUR 10
STUDY AREA
Modena
HARTLEDGE
36
36
Cottingers
NEEDVILLE
SHEET LIMITS
FORT BEND COUNTY

VICINITY MAP

N. T. S.

RURAL ARTERIAL DESIGN
SPEED IS 70 MPH

URBAN CURB & GUTTER
SECTION DESIGN
SPEED IS 40 MPH

SCHEMATIC LAYOUT
FORT BEND COUNTY
SH36
FROM: FM 2218
TO: FORT BEND COUNTY LINE
Texas Department of Transportation
HOUSTON DISTRICT
DATE: - -
ORIGINAL APPROVED: - -
REVISED: - -
REVISION(S) APPROVED: - -

HIGHWAY: SH 36
DESCRIPTION:
FROM: FM 2218
TO: FORT BEND COUNTY LINE
CSJ NO.: 0187-05-048, ETC.
DATE:
REVISION DATE:
APPROVAL DATE:
FILE NO.:

SCALE: 0 100 200 300 400

STATE OF TEXAS
CHRIS KUYKENDALL
86967
LICENSED
PROFESSIONAL ENGINEER

LEGEND

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
PROP ROW	━ · ━	5	BLACK	0
EXISTING ROW	─ ─	0	BLACK	0
ACCESS ROAD	········	1	BLUE	1
PLANIMETRIC	○	2	GREEN	2
TRAFFIC COUNT YEAR (2021) DHV	▬	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
DIRECT CONNECTOR	──	4	ORANGE	6
DEPRESSED	─v─v─	3	RED	3
FUTURE	─ ─ ─	1	BLUE	1
RETAINING WALL	━━	6	RED	3
STRIPING	▰ ▰	0	ORANGE	6
HIGH OCCUPANCY VEHICLE	▬	7	TURQUOISE	65
OVERHEAD EXPRESSWAY LANES	▬	9	BROWN	7
TEMPORARY CONNECTIONS	▬	10	PURPLE	37
RDWY. UNDER CONSTRUCTION	──	5	LT GREEN	197
RECOMMENDED NOISE ABATEMENT WALL	▬	10	PURPLE	203

PROFILE LEGEND

PROP. PGL	├──┤
EXIST. PGL	─ ─ ─
EXISTING GROUND	── ──
EXISTING R.O.W. LT	── ──
EXISTING R.O.W. RT	── ──
100 YEAR WATER SURFACE ELEVATION	────

UTILITY LEGEND

EXISTING TELEPHONE COPPER CABLE	─ ─ Cu ─ ─ ─ ─ Cu ─ ─
EXISTING PVC CONTAINING TELEPHONE LINES (UNLESS NOTED OTHERWISE)	─ ─ T ─ ─ ─ ─ T ─ ─
EXISTING WATERLINE	─ ─ ● ─ ─ ─ ─ ● ─ ─
EXISTING GAS UTILITY OR GAS PIPELINE	─ ─ GAS ─ ─ ─ ─ GAS ─ ·
EXISTING TELEPHONE PULL BOX	■
EXISTING TELEPHONE MANHOLE	●
EXISTING TELEPHONE EQUIPMENT ROOM OR SHELTER	▼
PRIVATE WATER WELL	⊙W
EXISTING CASING	▨
PROPOSED CASING	▨
EASEMENT	── ── ── ── ── ·

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Texas Department of Transportation

BROWN & GAY ENGINEERS, INC.
CIVIL ENGINEERS & SURVEYORS
HOUSTON, TEXAS

STATE HIGHWAY 36

SCHEMATIC LAYOUT

SHEET 3 OF 3