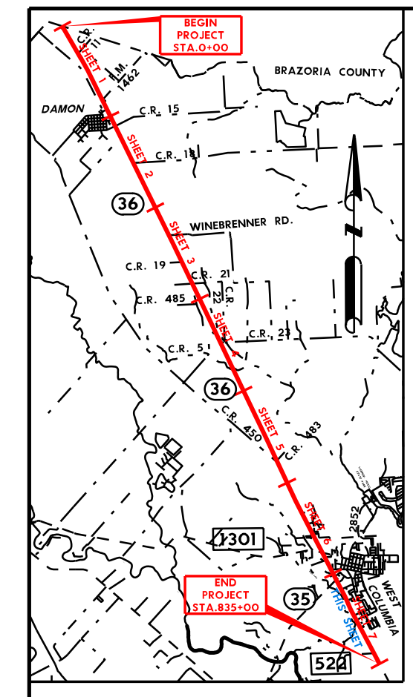

BEGIN PROJECT STA.0+00
BRAZORIA COUNTY
DAMON
C.R. 15
C.R. 18
36
WINEBRENNER RD.
C.R. 19
C.R. 485
C.R. 52
301
END PROJECT STA.835+00
35
522

VICINITY MAP

N.T.S.

RURAL ARTERIAL DESIGN
SPEED IS 70 MPH

URBAN CURB & GUTTER
SECTION DESIGN
SPEED IS 40 MPH

SCHEMATIC LAYOUT
BRAZORIA COUNTY
SH36
FROM: BRAZORIA COUNTY LINE
TO: FM 522
HOUSTON DISTRICT

Texas Department of Transportation

DATE : :
ORIGINAL APPROVED : :
REVISED : :
REVISION(S) APPROVED : :

NOT A BIDDING DOCUMENT

CRAIG F. STONG, P.E.
54845
TEXAS LICENSE NUMBER
DATE

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 (2020) ADT	▨	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	▬	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 ROW
100 YEAR WATER SURFACE ELEV.

UTILITY LEGEND

EXISTING TELEPHONE COPPER CABLE
EXISTING PVC CONTAINING TELEPHONE LINES (UNLESS NOTED OTHERWISE)
EXISTING WATERLINE
EXISTING GAS UTILITY OR GAS PIPELINE
EXISTING PIPELINE
EXISTING TELEPHONE PULL BOX
EXISTING TELEPHONE MANHOLE
EXISTING TELEPHONE EQUIPMENT ROOM OR SHELTER
PRIVATE WATER WELL
EXISTING CASING
PROPOSED CASING
EASEMENT

SCALE: 0 100 200

© 2003

TEXAS DEPARTMENT OF TRANSPORTATION

HDR ENGINEERING INC.
1100 NE LOOP 410, SUITE 200
SAN ANTONIO, TX 78209

Sylva Engineering Corporation

SECTION 15 - BRAZORIA COUNTY
STATE HIGHWAY 36
PREFERRED ALTERNATE
STA. 725+00 TO STA. 835+00

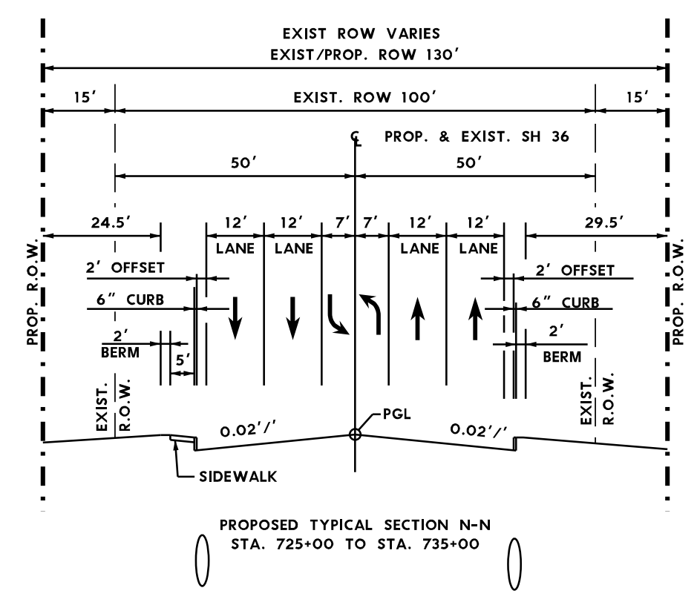
11/07/03 SHEET 7 OF 7

$DATE$ $TIME$
$FILE$

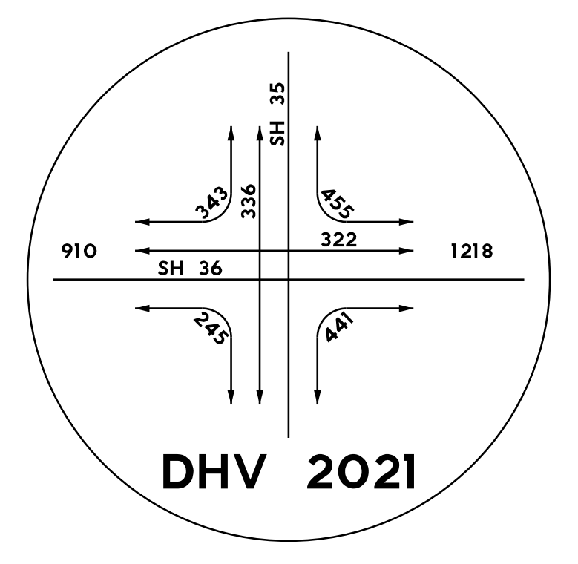
PI STATION = 760+26.24
DELTA = 5° 00′ 56.29″ (RT)
DEGREE OF CURVE = 0° 30′ 00.00″
TANGENT = 501.88
LENGTH = 1,003.13
RADIUS = 11,459.16
PC STATION = 755+24.36
PT STATION = 765+27.48

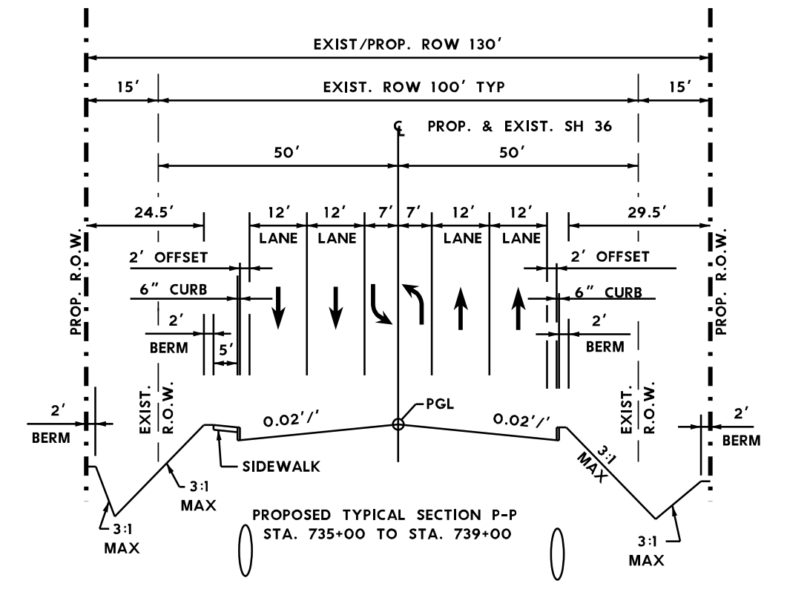
PI STATION = 771+59.77
DELTA = 4° 59′ 33.55″ (LT)
DEGREE OF CURVE = 0° 30′ 00.00″
TANGENT = 499.58
LENGTH = 998.53
RADIUS = 11,459.16
PC STATION = 766+60.19
PT STATION = 776+58.72

MATCHLINE STA. 725+00
TREE
EXIST. SH 35
16TH
TEXACO
MEADOW LN.
MEADOW DR.
REID
DANCE
PAPENDORF
FM 522
MATCHLINE STA. 835+50
S 26° 52′ 54.68″ E
S 21° 51′ 58.38″ E
S 26° 51′ 31.93″ E
730+00
735+00
740+00
745+00
750+00
755+00
760+00
765+00
770+00
775+00
780+00
785+00
790+00
795+00
800+00
805+00
810+00
815+00
820+00
825+00
830+00
PC 755+24.36
PT 765+27.48
PC 766+60.19
PT 776+58.72
CITY LIMITS SIGN
PROP. ROW
END CSJ 0188-03-19
BEGIN CSJ 0188-04-035
END CSJ 0188-04-035
HEARTS GROCERY
AUTO REPAIR SHOP
HONG KONG CHINESE REST.
CROCKER REAL ESTATE CO.
MTL. BLDG.
COLUMBIA HIGH SCHOOL
D.O.
PETAL PEDDER
NORMANS AUTO SALES
COUNTRY HEART INN
CHURCH'S
PHILLIPS 66
McDONALDS
OCEAN FOOD STORE
LUCY'S MEXICAN REST.
SLAB
HOUSE
MOBILE HOME
COLUMBIA MACHINE WORKS
PUMP STA.
WW LIFT STA.
SHED
TRAILER
S&M ABAND. COMM.
COMM. ABAND.
LOGGINS
VET. CLINIC
JEHOVAH'S WITNESSES
STRIP CENTER
THE CAROUSEL
COMMERCIAL
GARAGE
J & G MOTOR
TRAILER PARK
FURNITURE MART
LUNCH TIME REST.
ABAND GAS STATION
ENTEX GAS LINE
LPG (AMOCO PIPELINE)
ETHYLENE (PHILLIPS PIPELINE CO.)
PETROLEUM (PHILLIPS PIPELINE CO.)
NATURAL GAS (PG&E GAS TRANSMISSION)
NATURAL GAS (HOUSTON PIPELINE CO.)
N
O
P
Q
R
S
T
U
V

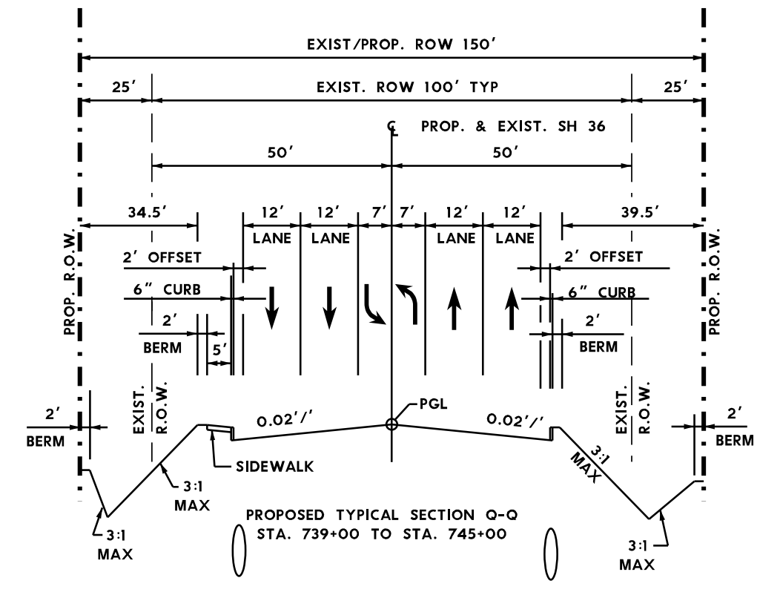

EXIST ROW VARIES
EXIST/PROP. ROW 130′
15′
EXIST. ROW 100′
15′
PROP. & EXIST. SH 36
50′
50′
24.5′
12′
12′
7′
7′
12′
12′
29.5′
LANE
2′ OFFSET
6″ CURB
2′ BERM
5′
PROP. R.O.W.
EXIST. R.O.W.
PGL
0.02′/′
SIDEWALK

PROPOSED TYPICAL SECTION N-N
STA. 725+00 TO STA. 735+00

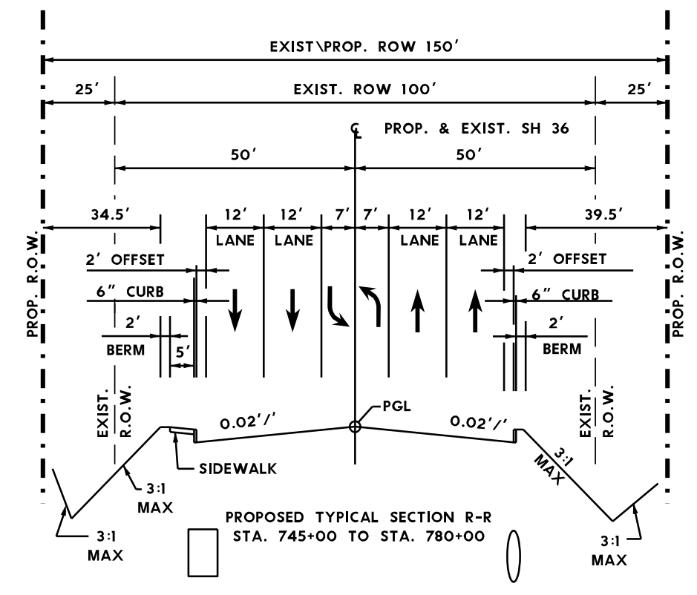

SH 35
343
336
455
910
SH 36
322
1218
245
441
DHV 2021


EXIST/PROP. ROW 130′
15′
EXIST. ROW 100′ TYP
15′
PROP. & EXIST. SH 36
50′
50′
24.5′
12′
12′
7′
7′
12′
12′
29.5′
LANE
2′ OFFSET
6″ CURB
2′ BERM
5′
PROP. R.O.W.
EXIST. R.O.W.
PGL
0.02′/′
SIDEWALK
3:1 MAX
2′ BERM

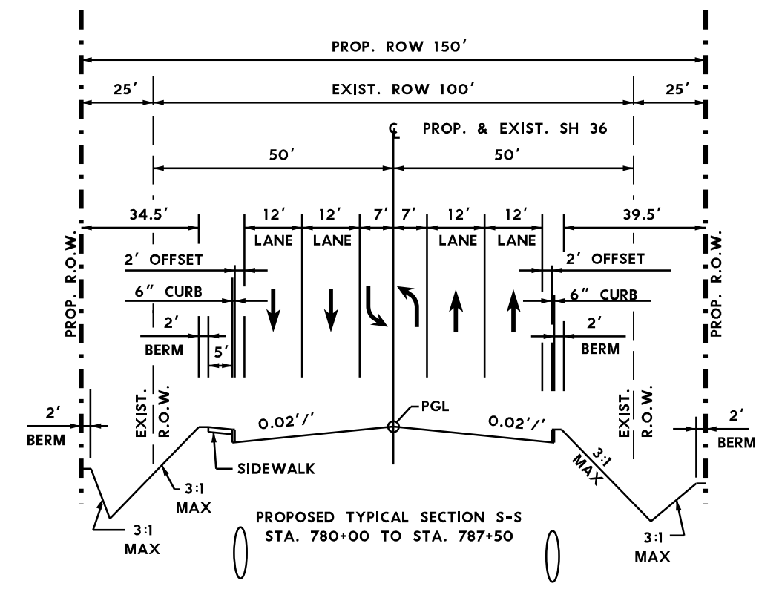
PROPOSED TYPICAL SECTION P-P
STA. 735+00 TO STA. 739+00


EXIST/PROP. ROW 150′
25′
EXIST. ROW 100′ TYP
25′
PROP. & EXIST. SH 36
50′
50′
34.5′
12′
12′
7′
7′
12′
12′
39.5′
LANE
2′ OFFSET
6″ CURB
2′ BERM
5′
PROP. R.O.W.
EXIST. R.O.W.
PGL
0.02′/′
SIDEWALK
3:1 MAX
2′ BERM

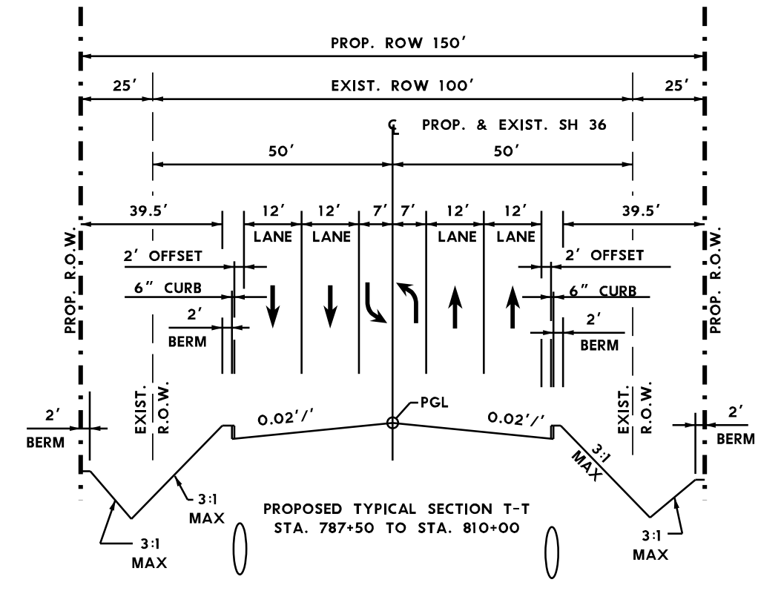
PROPOSED TYPICAL SECTION O-O
STA. 739+00 TO STA. 745+00


EXIST\PROP. ROW 150′
25′
EXIST. ROW 100′
25′
PROP. & EXIST. SH 36
50′
50′
34.5′
12′
12′
7′
7′
12′
12′
39.5′
LANE
2′ OFFSET
6″ CURB
2′ BERM
5′
PROP. R.O.W.
EXIST. R.O.W.
PGL
0.02′/′
SIDEWALK
3:1 MAX

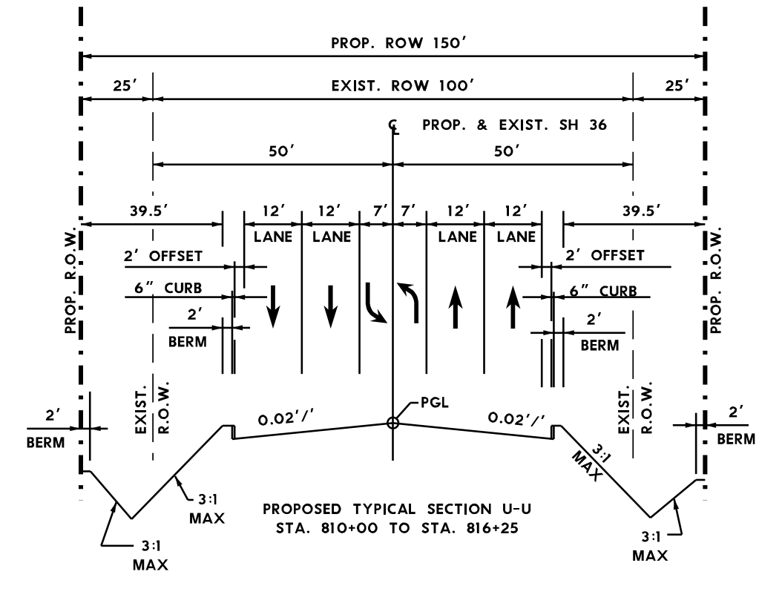
PROPOSED TYPICAL SECTION R-R
STA. 745+00 TO STA. 780+00


PROP. ROW 150′
25′
EXIST. ROW 100′
25′
PROP. & EXIST. SH 36
50′
50′
34.5′
12′
12′
7′
7′
12′
12′
39.5′
LANE
2′ OFFSET
6″ CURB
2′ BERM
5′
PROP. R.O.W.
EXIST. R.O.W.
PGL
0.02′/′
SIDEWALK
3:1 MAX
2′ BERM

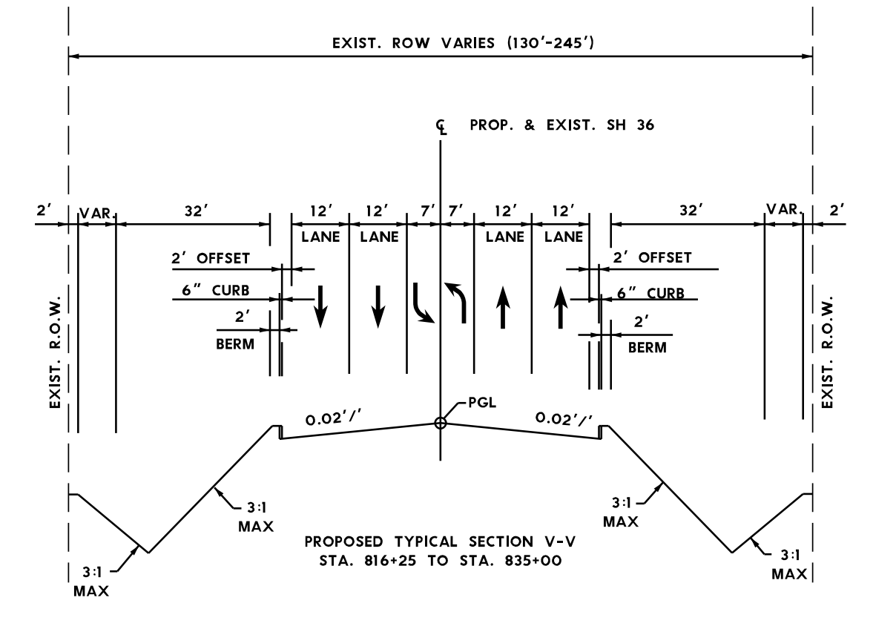
PROPOSED TYPICAL SECTION S-S
STA. 780+00 TO STA. 787+50


PROP. ROW 150′
25′
EXIST. ROW 100′
25′
PROP. & EXIST. SH 36
50′
50′
39.5′
12′
12′
7′
7′
12′
12′
39.5′
LANE
2′ OFFSET
6″ CURB
2′ BERM
PROP. R.O.W.
EXIST. R.O.W.
PGL
0.02′/′
3:1 MAX
2′ BERM

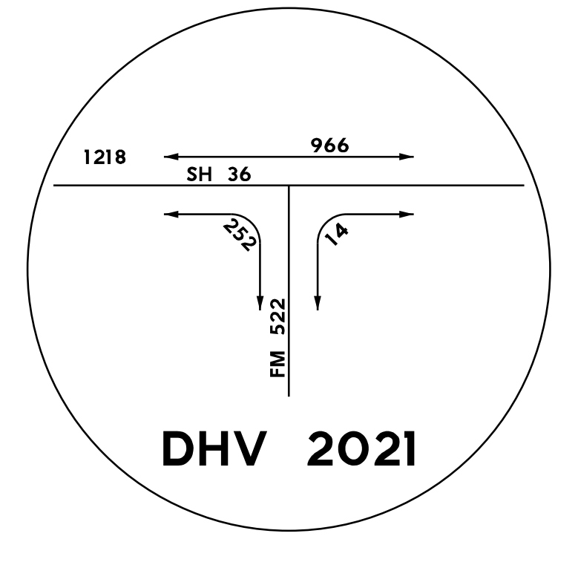
PROPOSED TYPICAL SECTION T-T
STA. 787+50 TO STA. 810+00


PROP. ROW 150′
25′
EXIST. ROW 100′
25′
PROP. & EXIST. SH 36
50′
50′
39.5′
12′
12′
7′
7′
12′
12′
39.5′
LANE
2′ OFFSET
6″ CURB
2′ BERM
PROP. R.O.W.
EXIST. R.O.W.
PGL
0.02′/′
3:1 MAX
2′ BERM

PROPOSED TYPICAL SECTION U-U
STA. 810+00 TO STA. 816+25


EXIST. ROW VARIES (130′-245′)
PROP. & EXIST. SH 36
2′
VAR.
32′
12′
12′
7′
7′
12′
12′
32′
VAR.
2′
LANE
2′ OFFSET
6″ CURB
2′ BERM
EXIST. R.O.W.
PGL
0.02′/′
3:1 MAX

PROPOSED TYPICAL SECTION V-V
STA. 816+25 TO STA. 835+00


1218
966
SH 36
252
14
FM 522
DHV 2021

PRELIMINARY SUBJECT TO CHANGE

N.B. PROFILE

PRELIMINARY SUBJECT TO CHANGE

PRELIMINARY SUBJECT TO CHANGE

PRELIMINARY SUBJECT TO CHANGE

40
35
30
25
20
15
730+00
740+00
750+00
760+00
770+00
780+00
790+00
800+00
810+00
820+00
830+00
℄ EXIST. RDWY.
℄ PROP. RDWY.
100 YR. W.S.
(-)0.3502 %
(+)0.3503 %
(-)0.5315 %
(+)0.3500 %
(-)0.3487 %
(+)0.3508 %
(-)0.3500 %
(+)0.3633 %
(-)0.3500 %
(+)0.3500 %
(-)0.3500 %
(+)0.3547 %
(-)0.3500 %
(+)0.3508 %
(-)0.3470 %
(+)0.3500 %
(-)0.3500 %
(+)0.3500 %
(-)0.3500 %
(+)0.3500 %
(+)0.3500 %
(-)0.3500 %
(-)0.3500 %
(+)0.3500 %
(-)0.5159 %
(+)0.3526
STA = 728+50.00 EL = 34.28′ ex = 0.12′ K = 193 L = 135.00′
STA = 731+50.00 EL = 35.33′ ex = -0.15′ K = 153 L = 135.00′
STA = 738+00.00 EL = 31.88′ ex = 0.15′ K = 153 L = 135.00′
STA = 744+00.00 EL = 33.98′ ex = -0.12′ K = 193 L = 135.00′
STA = 749+90.00 EL = 31.92′ ex = 0.12′ K = 193 L = 135.00′
STA = 753+00.00 EL = 33.01′ ex = -0.12′ K = 193 L = 135.00′
STA = 756+00.00 EL = 31.96′ ex = 0.12′ K = 189 L = 135.00′
STA = 759+00.00 EL = 33.05′ ex = -0.12′ K = 189 L = 135.00′
STA = 762+00.00 EL = 32.00′ ex = 0.12′ K = 193 L = 135.00′
STA = 765+50.00 EL = 33.23′ ex = -0.12′ K = 193 L = 135.00′
STA = 769+00.00 EL = 32.00′ ex = 0.12′ K = 192 L = 135.00′
STA = 772+20.00 EL = 33.13′ ex = -0.12′ K = 192 L = 135.00′
STA = 775+50.00 EL = 31.98′ ex = 0.12′ K = 193 L = 135.00′
STA = 780+75.00 EL = 33.82′ ex = -0.12′ K = 193 L = 135.00′
STA = 786+00.00 EL = 32.00′ ex = 0.12′ K = 194 L = 135.00′
STA = 789+00.00 EL = 33.05′ ex = -0.12′ K = 193 L = 135.00′
STA = 792+00.00 EL = 32.00′ ex = 0.12′ K = 193 L = 135.00′
STA = 795+00.00 EL = 33.05′ ex = -0.12′ K = 193 L = 135.00′
STA = 798+00.00 EL = 32.00′ ex = 0.12′ K = 193 L = 135.00′
STA = 810+00.00 EL = 36.20′ ex = -0.12′ K = 193 L = 135.00′
STA = 820+75.00 EL = 32.44′ ex = 0.12′ K = 193 L = 135.00′
STA = 827+25.00 EL = 34.71′ EX = -0.32′ K = 346 L = 300.00′
STA = 834+00.00 EL = 31.23′ EX = 0.16′ K = 173 L = 150.00′
CULVERT #16 2-60″
CULVERT #17 54″
CULVERT #20 4x4
CULVERT #19 3x3

S.B. PROFILE

S.B. PROFILE

VICINITY MAP
N.T.S.

RURAL ARTERIAL DESIGN
SPEED IS 70 MPH

URBAN CURB & GUTTER
SECTION DESIGN
SPEED IS 40 MPH

SCHEMATIC LAYOUT
BRAZORIA COUNTY
SH36
FROM: BRAZORIA COUNTY LINE
TO: FM 522
HOUSTON DISTRICT

NOT A BIDDING DOCUMENT
CRAIG F. STONG, P.E.
54845
TEXAS LICENSE NUMBER
DATE

LEGEND

PROFILE LEGEND

UTILITY LEGEND

SCALE: 0 100 200

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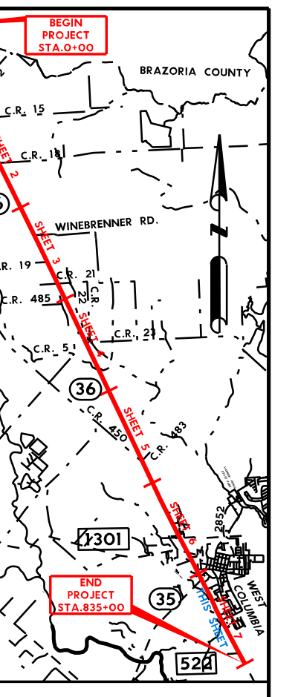
TEXAS DEPARTMENT OF TRANSPORTATION
HDR ENGINEERING INC.
1100 NE LOOP 410, SUITE 200
SAN ANTONIO, TX 78209
Sylva Engineering Corporation

SECTION 15 - BRAZORIA COUNTY
STATE HIGHWAY 36
PREFERRED ALTERNATE
STA. 725+00 TO STA. 835+00
11/07/03 SHEET 7 OF 7