TEXAS DEPARTMENT OF TRANSPORTATION
HOUSTON DISTRICT

SCHEMATIC LAYOUT
HARRIS COUNTY
FM 1960

LIMITS : FROM S 1960
TO SAN JACINTO BRIDGE
CSJ : 1449-03-058
LENGTH : 6.4 MILES

DESIGN SPEED : 45 MPH
CURRENT ADT : 50,400 (2005)
PROJECTED ADT : 72,700 (2020)
FUNCTIONAL CLASS : URBAN ARTERIAL

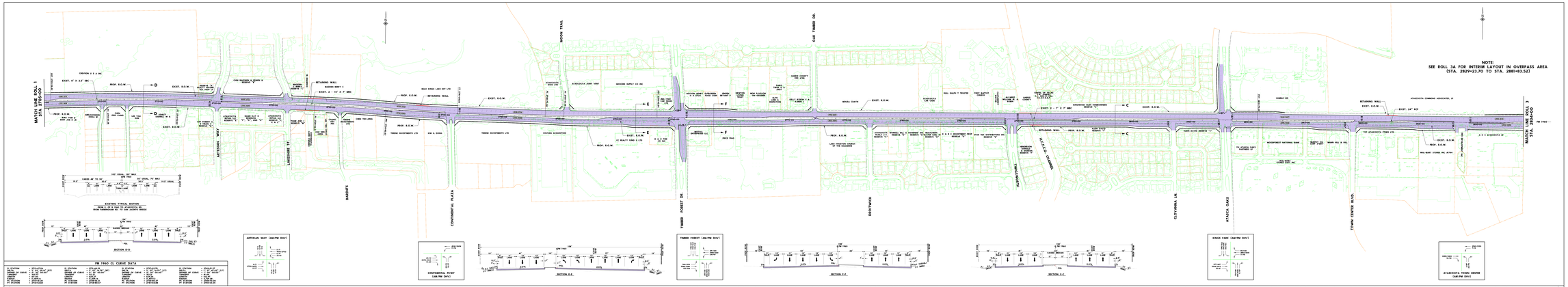
LOCATION MAP

NOT A BIDDING DOCUMENT
ROCO G. MUJICA, P.E.
TEXAS DEPARTMENT OF TRANSPORTATION
HOUSTON DISTRICT

LEGEND

| DESCRIPTION | LINE WT. | COLOR CODE |
|---|---|---|
| ROW OF PROPERTY / FACE OF CURB | | BLACK |
| RETAINING WALL | | BLACK |
| BARRIER WALL | | BLACK |
| EXISTING RIGHT TO BE ABANDONED | | BLACK |
| EXISTING RIGHT TO REMAIN | | BLACK |
| BUILDINGS | | GRAY |
| ENVIRONMENTAL | | GRAY |
| EXISTING TRAFFIC SIGNAL | | RED |
| FLOW LINE | | BLACK |
| PROPOSED CURB | | BLACK |
| PROPERTY LINE | | CRIMSON |
| PROPOSED RIGHT | | BLACK |
| PLANTED CLEAR ZONE (SEEDED) | | GREEN |
| EXISTING LANE DIRECTIONAL INDICATOR | | BLACK |
| PROPOSED LANE DIRECTIONAL INDICATOR | | BLACK |
| POLE | | BLACK |
| TELEPHONE POLE | | BLACK |
| TELEPHONE LINE (OH) | | BROWN |
| ELECTRIC LINE (OH) | | BLUE |
| ELECTRIC LINE (UG) | | BLUE |
| CONCRETE BOARD | | PURPLE |
| CONCRETE | | BLUE |
| PROPOSED FLOWLINE | | |
| PROPOSED STRUCTURE | | |
| EXISTING STRUCTURE | | |

SCALE: 0 100 200 300 400




NOTE:
SEE ROLL 3A FOR INTERIM LAYOUT IN OVERPASS AREA
(STA. 2829+23.70 TO STA. 2881+83.52)

FM 1960 GEOMETRIC SCHEMATIC

2
1

TEXAS DEPARTMENT OF TRANSPORTATION
HOUSTON DISTRICT

SCHEMATIC LAYOUT
HARRIS COUNTY
FM 1960

LIMITS : FROM 0.1940
TO SAN JACINTO BRIDGE
CSJ : 1416-03-058
LENGTH = 4.4 MILES

DESIGN SPEED = 45 MPH
CURRENT ADT = 51,600 (2005)
PROJECTED ADT = 70,700 (2030)
FUNCTIONAL CLASS = URBAN ARTERIAL

LOCATION MAP

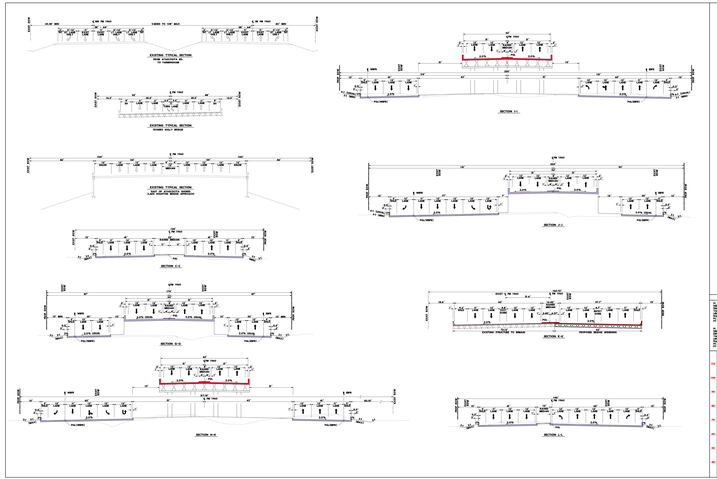
MAP & DRAWING DISCLAIMER

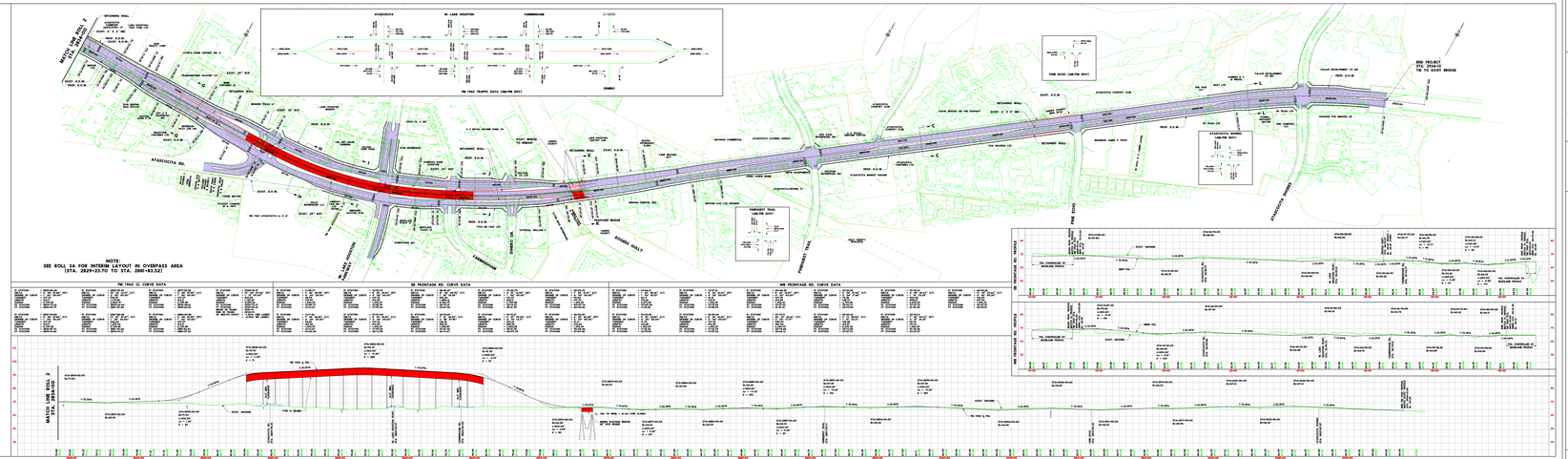
NAD 83 / NAD 27
Texas Statewide Mapping System

LEGEND

| STYLE | LINE WT | COLOR CODE |
|---|---|---|
| NEW ALIGNMENT CURB OR EDGE | 3 | BLACK |
| EXISTING CURB | 1 | BLACK |
| EXISTING EDGE OF PAVEMENT | 1 | BLACK |
| EXISTING EDGE OF SHOULDER | 1 | BLACK |
| EXISTING RIGHT OF WAY | 1 | BLACK |
| PROPERTY LINE | 1 | BLACK |
| EASEMENT | 1 | BLACK |
| CONSTRUCTION EASEMENT | 1 | BLACK |
| TEMPORARY EASEMENT | 1 | BLACK |
| BUILDING LINE | 1 | BLACK |
| BUILDING | 1 | BLACK |
| EXISTING TREE | 1 | BLACK |
| EXISTING TREE TRUNK DIAM. GREATER THAN 12" | 1 | BLACK |
| EXISTING TREE TRUNK DIAM. LESS THAN 12" | 1 | BLACK |
| EXISTING LANE STRIPING INDICATOR | 1/4 | BLACK |
| EXISTING LANE STRIPING | 1 | BLACK |
| PROPOSED LANE STRIPING | 1 | BLACK |
| PROPOSED CURB | 3 | BLACK |
| PROPOSED EDGE OF PAVEMENT | 3 | BLACK |
| PROPOSED EDGE OF SHOULDER | 3 | BLACK |
| PROPOSED RIGHT OF WAY | 3 | BLACK |
| PROPOSED PROPERTY | 3 | BLACK |
| PROPOSED EASEMENT | 3 | BLACK |
| PROPOSED BUILDING | 3 | BLACK |

SCALE: 0 100 200 300 400




NOTE:
SEE ROLL 3A FOR INTERIM LAYOUT IN OVERPASS AREA
(STA. 2829+23.70 TO STA. 2881+93.52)

FM 1960 CL CURVE DATA

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 |
| DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" |
| D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 |
| T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 |
| L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 |
| R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 |

EB FRONTAGE RD. CURVE DATA

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 |
| DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" |
| D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 |
| T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 |
| L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 |
| R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 |

WB FRONTAGE RD. CURVE DATA

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 | PI STA | 2+00.00 |
| DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" | DELTA | 0°00'00" |
| D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 | D | 0.00 |
| T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 | T | 0.00 |
| L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 | L | 0.00 |
| R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 | R | 0.00 |

FM 1960 GEOMETRIC SCHEMATIC

FM 1960 GEOMETRIC SCHEMATIC

# TEXAS DEPARTMENT OF TRANSPORTATION
## HOUSTON DISTRICT

## SCHEMATIC LAYOUT
HARRIS COUNTY
FM 1960

LIMITS : FROM B 1960
TO SAN JACINTO BRIDGE
CSJ : 1685-03-058
LENGTH = 6.4 MILES

DESIGN SPEED : 45 MPH
CURRENT ADT : 50,600 (2005)
PROJECTED ADT : 72,700 (2025)
FUNCTIONAL CLASS : URBAN ARTERIAL

LOCATION MAP

NOT A BIDDING DOCUMENT
BROOK E. MILLER, P.E.
PE
TEXAS REGISTRATION NUMBER
DATE
SEALED

LEGEND

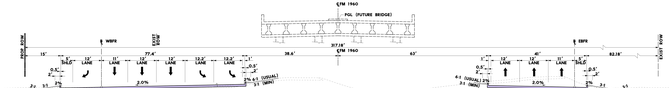
| SYMBOLOGY | LINE WT | COLOR CODE |
|---|---|---|
| EDGE OF PAVEMENT / FACE OF CURB | 3 | BLACK 0 |
| RETAINING WALL | 3 | RED 3 |
| BRIDGE | 3 | BLACK 0 |
| EXISTING SIGNY TO BE REMOVED | 3 | BLACK 0 |
| EXISTING SIGNY TO REMAIN | 3 | GREEN 2 |
| DEPRESSED | 1 | RED 3 |
| EMBANKMENT | 1 | RED 3 |
| PROPOSED SIDE ACCESS | 1 | BLUE 5 |
| PROP SIGNY | 3 | BLACK 0 |
| EXISTING SIGNY | 1 | BLACK 0 |
| PROPERTY LINES | 1 | ORANGE 6 |
| PLANIMETRIC | 1 | GREEN 2 |
| TRAFFIC COUNT YEAR (2025) DHV (AM/PM) | 1 | BLACK 0 |
| EXISTING LANE DIRECTIONAL INDICATOR | 0 | BLACK 0 |
| PROPOSED LANE DIRECTIONAL INDICATOR | 0 | BLUE 5 |
| FUTURE | 1 | BLUE 5 |
| POWER LINE (OH) | 1 | RED 3 |
| TELEPHONE LINE (OH) | 1 | BROWN 14 |
| TELEPHONE LINE (UG) | 1 | BROWN 14 |
| TELEVISION LINE | 1 | BROWN 14 |
| SANITARY SEWER | 1 | PURPLE 7 |
| GAS | 1 | BLUE 5 |
| PROPOSED PAVEMENT | | |
| PROPOSED STRUCTURE | | |
| EXISTING STRUCTURE | | |

SCALE: 0 100 200 300 400

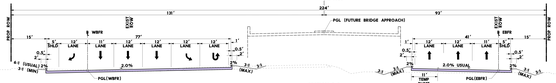
EXISTING TYPICAL SECTION
FROM ATASCOCITA RD. TO FARMINGHAM

EXISTING TYPICAL SECTION
ROGERS GULLY BRIDGE

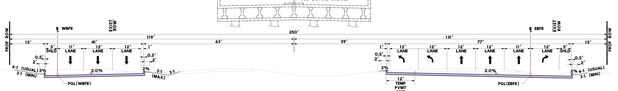
SECTION M-M




SECTION N-N

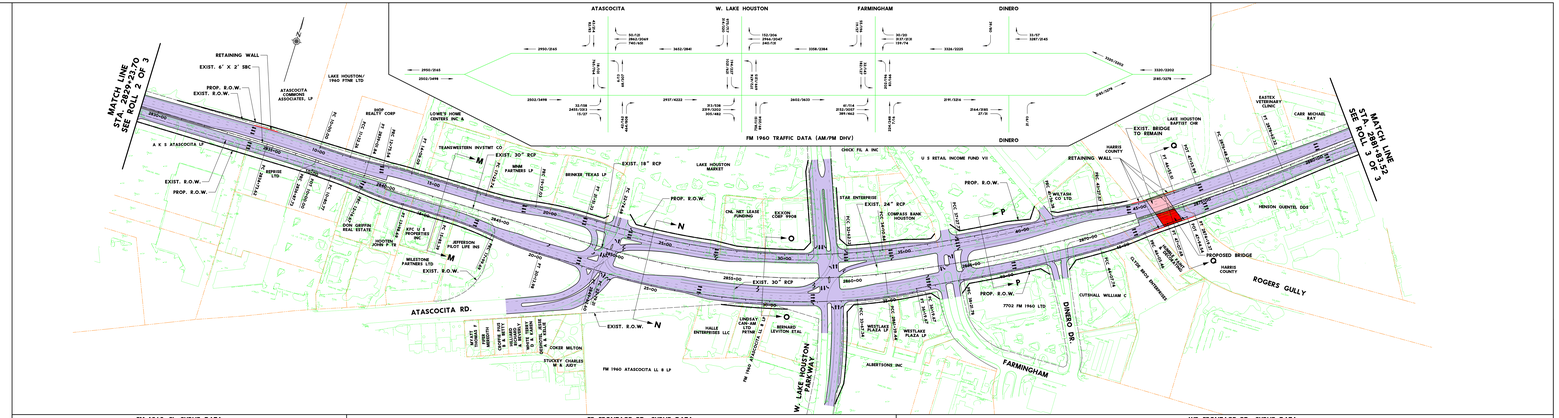



SECTION P-P




SECTION Q-Q

SECTION Q-Q




FM 1960 CL CURVE DATA

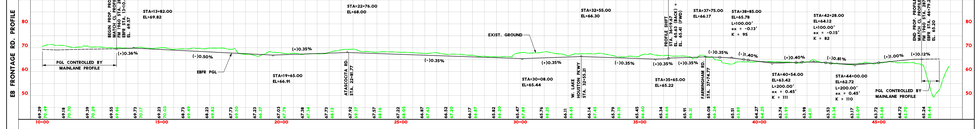
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PI STATION | = 2910+90.69 | PI STATION | = 2920+05.42 | PI STATION | = 2937+55.28 | | |
| DELTA | = 2° 08' 27.84" (RT) | DELTA | = 20° 32' 12.51" (LT) | DELTA | = 2° 08' 27.84" (LT) | | |
| DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | | |
| TANGENT | = 107.07 | TANGENT | = 214.61 | TANGENT | = 107.07 | | |
| LENGTH | = 214.11 | LENGTH | = 1,776.86 | LENGTH | = 214.11 | | |
| PT STATION | = 2912+04.76 | PT STATION | = 2938+82.03 | PT STATION | = 2939+62.39 | | |
| PC STATION | = 2909+97.72 | PC STATION | = 2918+67.42 | PC STATION | = 2925+48.28 | | |
| PI STATION | = 2937+94.80 | PI STATION | = 2957+53.28 | PI STATION | = 2983+90.38 | | |
| DELTA | = 2° 08' 27.84" (LT) | DELTA | = 15° 42' 37.67" (LT) | DELTA | = 2° 08' 27.84" (RT) | | |
| DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | | |
| TANGENT | = 107.07 | TANGENT | = 448.64 | TANGENT | = 107.07 | | |
| LENGTH | = 214.11 | LENGTH | = 1,279.94 | LENGTH | = 214.11 | | |
| PT STATION | = 2939+01.91 | PT STATION | = 2958+02.28 | PT STATION | = 2985+04.49 | | |
| PC STATION | = 2936+87.80 | PC STATION | = 2945+69.44 | PC STATION | = 2982+43.33 | | |

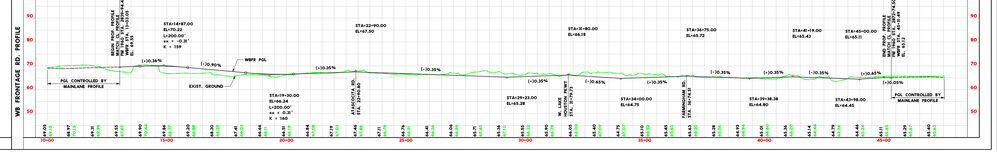
EB FRONTAGE RD. CURVE DATA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PI STATION | = 11+48.77 | PI STATION | = 16+52.74 | PI STATION | = 20+06.47 | | |
| DELTA | = 5° 34' 06.99" (RT) | DELTA | = 8° 34' 18.45" (RT) | DELTA | = 21° 03' 08.75" (LT) | | |
| DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | | |
| TANGENT | = 48.00 | TANGENT | = 132.95 | TANGENT | = 356.24 | | |
| LENGTH | = 95.93 | LENGTH | = 214.29 | LENGTH | = 1,088.14 | | |
| PT STATION | = 12+44.70 | PT STATION | = 18+85.03 | PT STATION | = 23+94.61 | | |
| PC STATION | = 11+96.77 | PC STATION | = 16+70.74 | PC STATION | = 22+70.12 | | |
| PI STATION | = 13+51.31 | PI STATION | = 17+07.04 | PI STATION | = 20+47.04 | | |
| DELTA | = 5° 34' 06.84" (LT) | DELTA | = 8° 34' 18.45" (LT) | DELTA | = 21° 03' 08.75" (RT) | | |
| DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | | |
| TANGENT | = 48.00 | TANGENT | = 214.29 | TANGENT | = 356.24 | | |
| LENGTH | = 95.93 | LENGTH | = 214.29 | LENGTH | = 1,088.14 | | |
| PT STATION | = 14+47.24 | PT STATION | = 19+21.33 | PT STATION | = 24+03.28 | | |
| PC STATION | = 13+99.31 | PC STATION | = 17+06.99 | PC STATION | = 22+47.14 | | |
| PI STATION | = 24+15.49 | PI STATION | = 26+64.29 | PI STATION | = 41+10.29 | | |
| DELTA | = 5° 34' 06.84" (LT) | DELTA | = 5° 47' 09.06" (LT) | DELTA | = 4° 05' 00.26" (RT) | | |
| DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | | |
| TANGENT | = 48.00 | TANGENT | = 214.29 | TANGENT | = 356.24 | | |
| LENGTH | = 95.93 | LENGTH | = 199.46 | LENGTH | = 1,192.22 | | |
| PT STATION | = 24+63.42 | PT STATION | = 28+63.75 | PT STATION | = 42+02.51 | | |
| PC STATION | = 24+14.49 | PC STATION | = 26+64.29 | PC STATION | = 40+10.29 | | |

WB FRONTAGE RD. CURVE DATA

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PI STATION | = 10+66.51 | PI STATION | = 12+37.24 | PI STATION | = 20+48.38 | PI STATION | = 29+10.06 | PI STATION | = 39+32.14 |
| DELTA | = 1° 20' 08.36" (LT) | DELTA | = 4° 55' 33.31" (RT) | DELTA | = 8° 34' 18.45" (RT) | DELTA | = 8° 34' 18.45" (RT) | DELTA | = 4° 09' 50.47" (LT) |
| DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" |
| TANGENT | = 42.73 | TANGENT | = 121.13 | TANGENT | = 132.95 | TANGENT | = 132.95 | TANGENT | = 126.47 |
| LENGTH | = 85.24 | LENGTH | = 239.15 | LENGTH | = 214.29 | LENGTH | = 214.29 | LENGTH | = 408.67 |
| PT STATION | = 10+51.26 | PT STATION | = 14+76.39 | PT STATION | = 22+81.33 | PT STATION | = 31+42.03 | PT STATION | = 43+59.81 |
| PC STATION | = 10+09.00 | PC STATION | = 12+37.24 | PC STATION | = 20+48.38 | PC STATION | = 29+10.06 | PC STATION | = 39+33.34 |
| PI STATION | = 21+52.85 | PI STATION | = 23+15.59 | PI STATION | = 28+28.49 | PI STATION | = 35+05.22 | PI STATION | = 44+22.79 |
| DELTA | = 1° 43' 52.85" (LT) | DELTA | = 4° 55' 33.31" (RT) | DELTA | = 8° 34' 18.45" (LT) | DELTA | = 8° 34' 18.45" (LT) | DELTA | = 4° 09' 50.47" (RT) |
| DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" |
| TANGENT | = 143.28 | TANGENT | = 239.15 | TANGENT | = 214.29 | TANGENT | = 214.29 | TANGENT | = 408.67 |
| LENGTH | = 301.04 | LENGTH | = 477.77 | LENGTH | = 997.44 | LENGTH | = 1,192.22 | LENGTH | = 2,119.59 |
| PT STATION | = 13+12.54 | PT STATION | = 18+53.35 | PT STATION | = 32+26.77 | PT STATION | = 40+97.25 | PT STATION | = 53+79.40 |
| PC STATION | = 12+11.26 | PC STATION | = 13+75.58 | PC STATION | = 27+29.33 | PC STATION | = 34+05.03 | PC STATION | = 43+59.81 |
| PI STATION | = 40+13.11 | PI STATION | = 44+22.79 | PI STATION | = 46+10.29 | | | | |
| DELTA | = 1° 42' 44.19" (RT) | DELTA | = 4° 09' 50.47" (RT) | DELTA | = 4° 09' 50.47" (LT) | | | | |
| DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | DEGREE OF CURVE | = 0° 35' 00.00" | | | | |
| TANGENT | = 126.47 | TANGENT | = 408.67 | TANGENT | = 408.67 | | | | |
| LENGTH | = 2,119.59 | LENGTH | = 2,119.59 | LENGTH | = 2,119.59 | | | | |
| PT STATION | = 53+79.40 | PT STATION | = 64+52.26 | PT STATION | = 66+58.55 | | | | |
| PC STATION | = 43+52.29 | PC STATION | = 53+79.40 | PC STATION | = 55+85.69 | | | | |




FM 1960 GEOMETRIC SCHEMATIC - INTERIM LAYOUT
AT W. LAKE HOUSTON PKWY OVERPASS

TEXAS DEPARTMENT OF TRANSPORTATION

FROM B 1960 TO SAN JACINTO BRIDGE

FROM B 1960 TO SAN JACINTO BRIDGE

3A

FM 1960 GEOMETRIC SCHEMATIC - INTERIM LAYOUT
AT W. LAKE HOUSTON PKWY OVERPASS

TEXAS DEPARTMENT OF TRANSPORTATION

3A

TEXAS DEPARTMENT OF TRANSPORTATION
HOUSTON DISTRICT

# SCHEMATIC LAYOUT
HARRIS COUNTY
FM 1960

LIMITS : FROM B 1960
TO SAN JACINTO BRIDGE
CSJ : 1485-03-058
LENGTH : 6.4 MILES

DESIGN SPEED : 45 MPH
CURRENT ADT : 50,400 (2005)
PROJECTED ADT : 72,700 (2025)
FUNCTIONAL CLASS : URBAN ARTERIAL

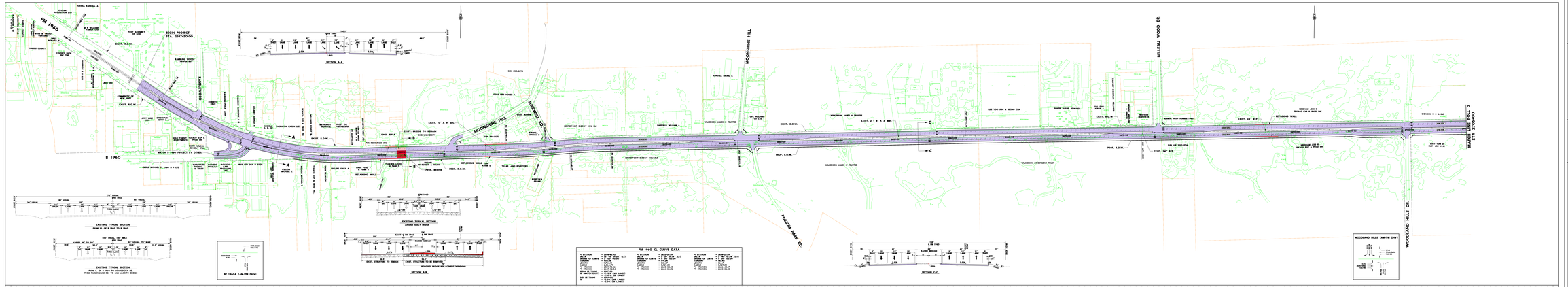
LOCATION MAP

NOT A BIDDING DOCUMENT
APPR C. BURI, P.E.
DATE
DISTRICT ENGINEER
DATE

LEGEND

| SYMBOLOGY | LINE WT | COLOR CODE |
|---|---|---|
| BEGIN OR ALIGNMENT TIED TO CURB | 4 | BLUE |
| CENTERLINE | 1 | RED |
| LEVEE | 1 | BROWN |
| EXISTING EDGE TO BE REMOVED | 1 | BROWN |
| EXISTING EDGE TO REMAIN | 1 | BROWN |
| CONTOURS | 1 | BROWN |
| VEGETATION | 1 | GREEN |
| CONTROL OF ACCESS | 1 | BLUE |
| RIGHT OF WAY | 1 | BLUE |
| EXISTING CURB | 1 | BLACK |
| PROPOSED CURB | 1 | BLACK |
| PLANTERS | 1 | BLACK |
| EXISTING TRAFFIC FLOW (SHORT DASH LONG PAIR) | 1 | BLACK |
| EXISTING LANE DIRECTIONAL INDICATOR | 1 | BLACK |
| PROPOSED LANE DIRECTIONAL INDICATOR | 1 | BLACK |
| EXISTING LANE LINE | 1 | BLACK |
| PROPOSED LANE LINE | 1 | BLACK |
| EXISTING LANE LINE (LONG) | 1 | BLACK |
| PROPOSED LANE LINE (LONG) | 1 | BLACK |
| TELEPHONE LINE (LONG) | 1 | BROWN |
| TELEPHONE LINE | 1 | BROWN |
| SIDEWALK | 1 | BLACK |
| CONCRETE COLUMN | 1 | BLUE |
| PROPOSED STRUCTURE | 1 | BLUE |
| EXISTING STRUCTURE | 1 | BLUE |

SCALE: 0 100 200 300 400
SCALE: 1" = 100'





FM 1960 GEOMETRIC SCHEMATIC