HOUSTON DISTRICT
PROJECT DEVELOPMENT

# FEIS SCHEMATIC

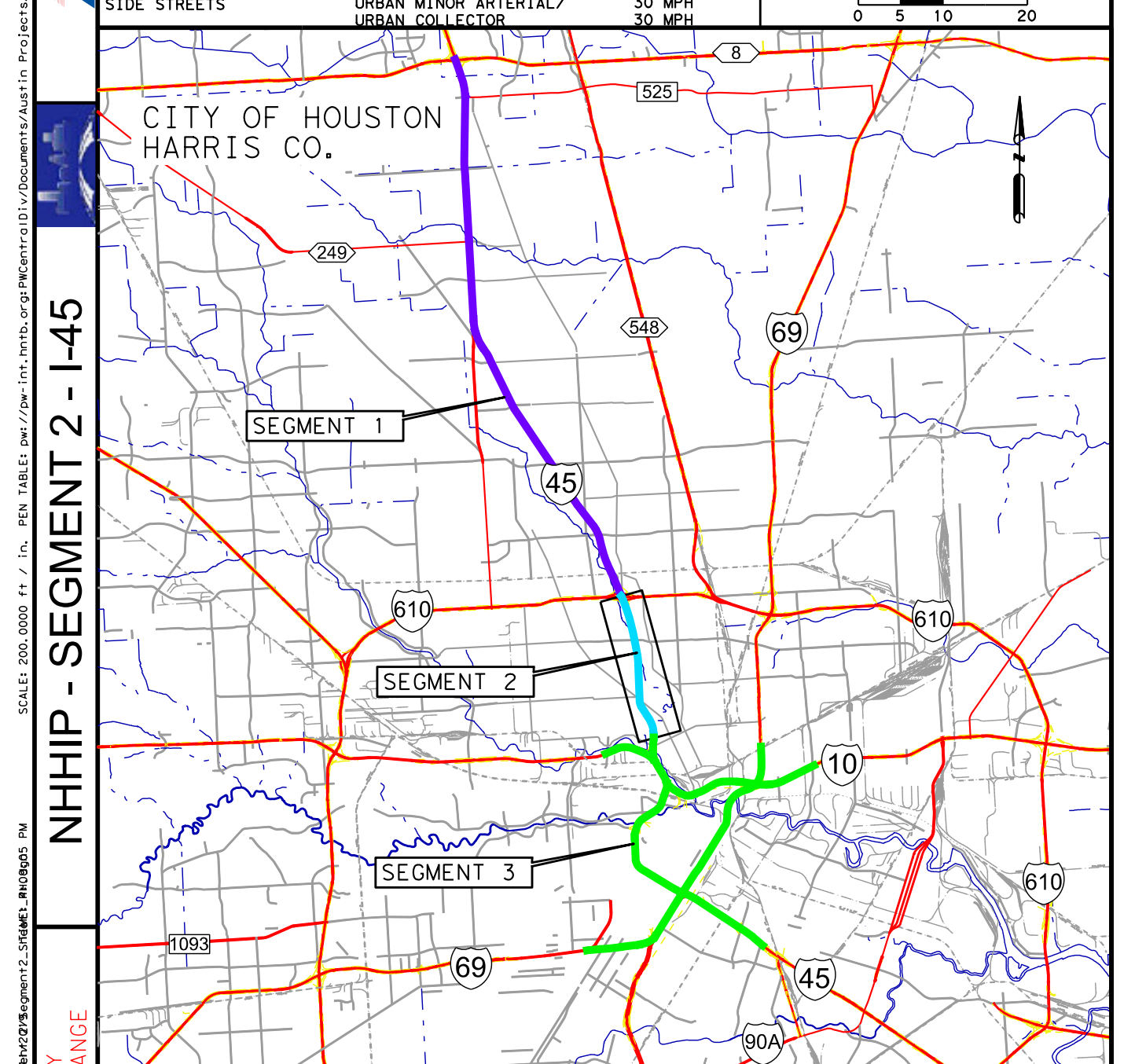
# NHHIP
# I-45 SEGMENT 2

| | | | |
|---|---|---|---|
| COUNTY: | HARRIS | CONSTRUCTION CSJ: | 0500-03-560 |
| LIMITS FROM: | I-10 | | |
| LIMITS TO: | I-610 | PRELIMINARY CSJ: | 0912-00-146 |
| DATE: | 12/11/2019 | | 0912-00-147 |
| APPROVED: | | | 0912-00-479 |

| ROADWAY | FUNCTIONAL CLASSIFICATION | DESIGN SPEED |
|---|---|---|
| MAINLANES | URBAN FREEWAY | 60 MPH |
| DIRECT CONNECTORS | DIRECT CONNECTORS | 45 MPH |
| RAMPS | RAMPS | 45 MPH |
| COLLECTOR-DISTRIBUTORS | COLLECTOR-DISTRIBUTORS | 45 MPH |
| FRONTAGE ROADS | URBAN COLLECTOR | 45 MPH |
| SIDE STREETS | URBAN MINOR ARTERIAL/ URBAN COLLECTOR | 30 MPH<br>30 MPH |

HORZ SCALE: 1"=200'
0 50 100 200

VERT SCALE: 1"=20'
0 5 10 20


CITY OF HOUSTON
HARRIS CO.
SEGMENT 1
SEGMENT 2
SEGMENT 3
8
525
249
548
69
45
610
10
1093
90A

LOCATION MAP : N.T.S.
SURVEY DATA: TEXAS SOUTH CENTRAL ZONE #4204 (HARRIS COUNTY)
ADJUSTED TO SURFACE USING COMBINED SCALE FACTOR 1.00013

PLAN LEGEND

| SYMBOLOGY | ROADWAY | BRIDGE | STYLE | LINE WT | COLOR CODE | |
|---|---|---|---|---|---|---|
| CENTERLINE | | | — - - | 2 | BLACK | 0 |
| I-45 MAINLANES | ▬ | ▬ | — | 2 | BLACK | 0 |
| I-69/US 59 MAINLANES | ▬ | ▬ | — | 2 | BLACK | 0 |
| I-10 MAINLANES | ▬ | ▬ | — | 2 | BLACK | 0 |
| SH 288 MAINLANES | ▬ | ▬ | — | 2 | BLACK | 0 |
| I-610 MAINLANES | ▬ | ▬ | — | 2 | BLACK | 0 |
| I-10 EXPRESS LANES | ▬ | ▬ | — | 2 | PINK | 10 |
| MAX LANES | ▬ | ▬ | — | 2 | PINK | 28 |
| LOCAL STREETS | ▬ | ▬ | — | 2 | BLUE | 1 |
| RAMPS | ▬ | ▬ | — | 2 | RED | 3 |
| DIRECT CONNECTOR | ▬ | ▬ | — | 2 | MAGENTA | 5 |
| PEDESTRIAN REALM | ▬ | ▬ | — | 1 | GREEN | 155 |
| HIGHWAY CAP/POTENTIAL OPEN SPACE | | | ▨ | 7 | | |
| EXISTING RDWY TO BE REMOVED | | | ▨ | 1 | | |
| SURPLUS ROW | | | ▨ | 3 | RED | 3 |
| PROPOSED CONTROL OF ACCESS | | | —‖— | 0 | RED | 3 |
| PROPOSED FEIS ROW | | | ▬ ▪ ▬ | 6 | BLUE | 126 |
| EXISTING ROW | | | — — — | 1 | BLACK | 0 |
| ACCESS ROAD | | | - - - - | 1 | BLUE | 1 |
| METRO RAIL RED (MAIN STREET LINE) | | | ╫╫╫ | 1 | RED | 3 |
| METRO RAIL(EAST END LINE) | | | ╫╫╫ | 1 | GREEN | 156 |
| METRO RAIL(SOUTHEAST LINE) | | | ╫╫╫ | 1 | PURPLE | 203 |
| RAILROAD | | | ╫╫╫ | 1 | BLACK | 0 |
| LIMITS OF FLOODWAY | | | — | 1 | BLUE | 171 |
| PLANIMETRIC | | | | 2 | GREEN | 2 |
| TRAFFIC COUNT YEAR (2040) DHV | | | 0000 | 0 | BLACK | 0 |
| AM MAX LANE TRAFFIC COUNT YEAR (2040) DHV | | | 0000 AM | 0 | BLACK | 0 |
| PM MAX LANE TRAFFIC COUNT YEAR (2040) DHV | | | 0000 PM | 0 | BLACK | 0 |
| EXISTING LANE DIRECTIONAL INDICATOR: | | | | | | |
| MAIN LANES | | | ⇨ | 0 | BLACK | 0 |
| TURNAROUNDS | | | ⇨ | 0 | BLUE | 168 |
| PROPOSED LANE DIRECTIONAL INDICATOR: | | | | | | |
| MAIN LANES | | | → | 1 | BLACK | 0 |
| TURNAROUNDS | | | → | 1 | BLUE | 168 |
| RAMPS | | | → | 1 | RED | 3 |
| DIRECT CONNECTOR | | | → | 1 | RED | 139 |
| MAX LANES | | | → | 1 | MAGENTA | 5 |
| DEPRESSED | | | ▬ | 3 | RED | 3 |
| BY OTHERS | | | — — — | 3 | BLUE | 1 |
| RETAINING WALL | | | ▬ | 6 | RED | 3 |
| PROPOSED AESTHETIC WALL | | | ▬ | 6 | PURPLE | 203 |
| PROPOSED NOISE BARRIER | | | ▬ | 6 | LT GREEN | 196 |

PRELIMINARY
SUBMITTED FOR REVIEW
Engineer: DARRIN J. WILLER
P.E. Serial No.: 82119
Date: 12/11/2019
Signature: ____________
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

TxDOT (DISTRICT-"APPROVED BY") LETTER DATED

FHWA REPRESENTATIVES ("APPROVED BY") LETTER DATED

SHEET 1 OF 2

ROADWAY: I-45 NORTH
COUNTY: HARRIS
LIMITS FROM: BELTWAY 8
LIMITS TO: I-69

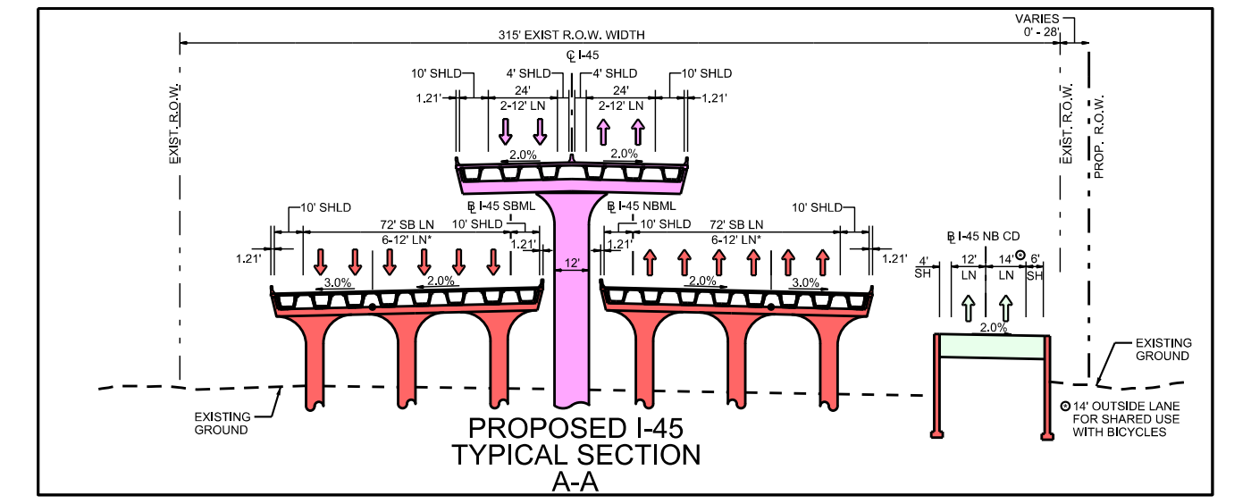
PREPARED BY: joherrera

FILE LOCATION: pw://pw-int.hntb.org:PWCentralDiv/Documents/Austin Projects/58557 SPD 5 by 25/Design and Engineering/I45_NHHIP/Plot/58557_IH45.pen

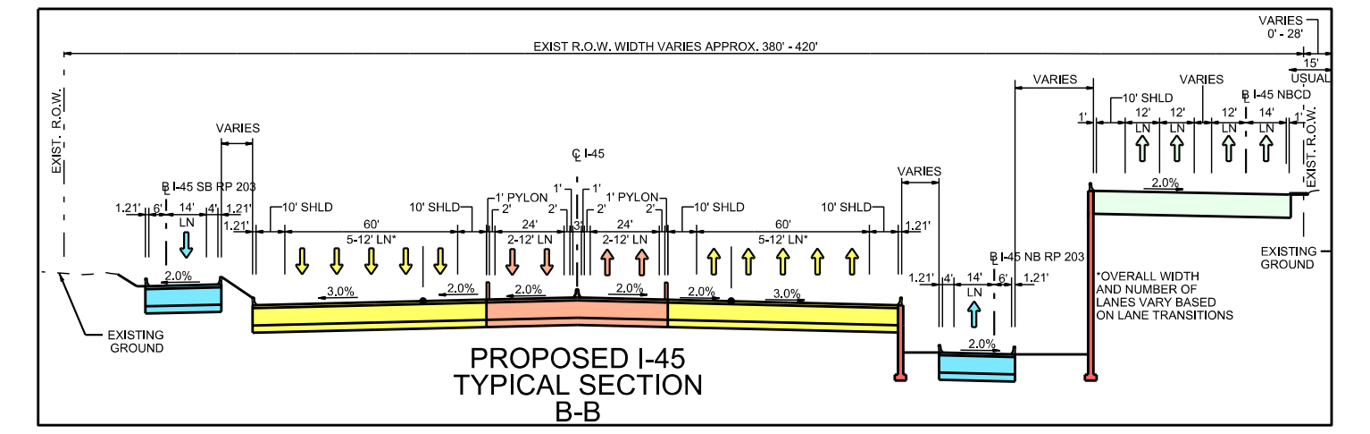
HNTB

PRELIMINARY SUBJECT TO CHANGE

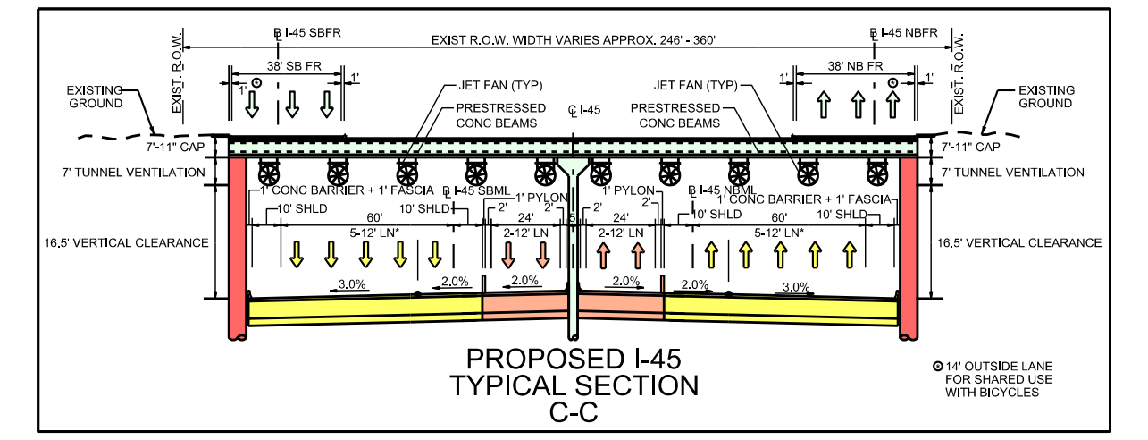
NHHIP - SEGMENT 2 - I-45


318' EXIST R.O.W. WIDTH
10' SHLD
24'
2-12' LN
72' SB LN
6-12' LN
72' NB LN
I-45 SBML
I-45 NBML
I-45 NB CD
EXISTING GROUND
14' OUTSIDE LANE FOR SHARED USE WITH BICYCLES

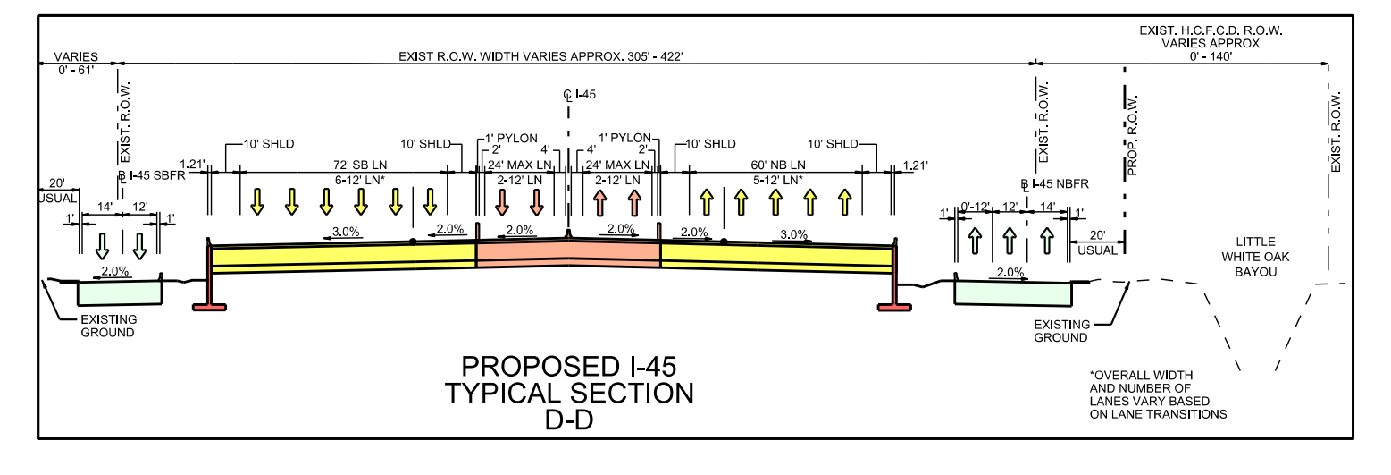
PROPOSED I-45
TYPICAL SECTION
A-A


EXIST R.O.W. WIDTH VARIES APPROX. 380' - 420'
I-45 SB RP 203
I-45 NB RP 203
10' SHLD
60'
5-12' LN
24' PYLON
2-12' LN
*OVERALL WIDTH AND NUMBER OF LANES VARY BASED ON LANE TRANSITIONS
EXISTING GROUND

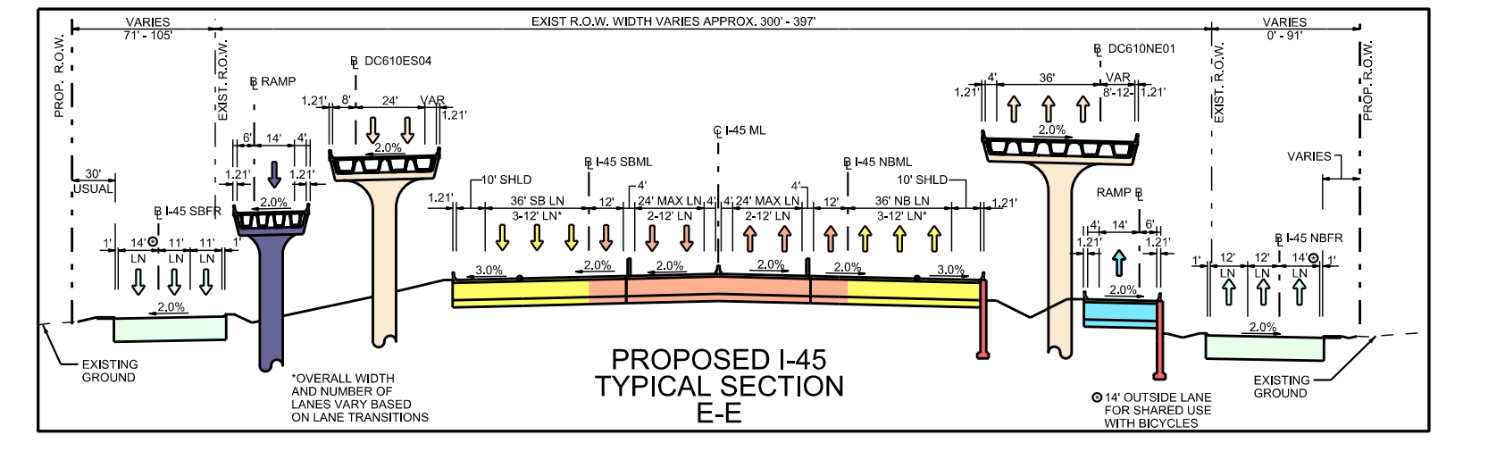
PROPOSED I-45
TYPICAL SECTION
B-B


EXIST R.O.W. WIDTH VARIES APPROX. 246' - 360'
I-45 SBFR
I-45 NBFR
JET FAN (TYP)
PRESTRESSED CONC BEAMS
7' TUNNEL VENTILATION
16.5' VERTICAL CLEARANCE
EXISTING GROUND
14' OUTSIDE LANE FOR SHARED USE WITH BICYCLES

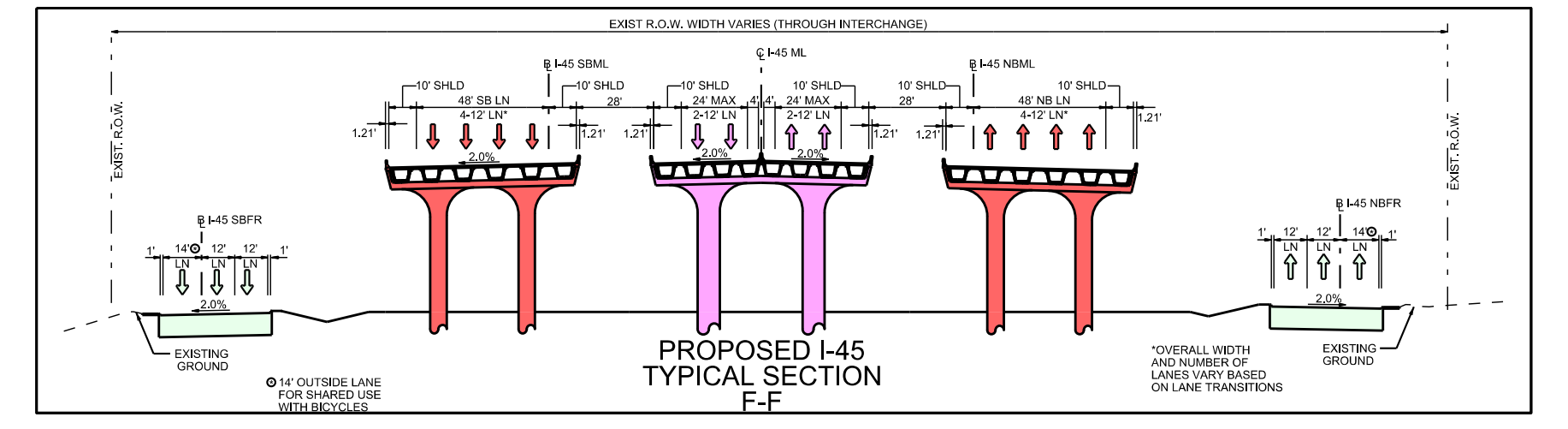
PROPOSED I-45
TYPICAL SECTION
C-C


EXIST R.O.W. WIDTH VARIES APPROX. 305' - 422'
EXIST. H.C.F.C.D. R.O.W. VARIES APPROX 0' - 140'
I-45 SBFR
I-45 NBFR
10' SHLD
72' SB LN
6-12' LN
24' MAX LN
60' NB LN
5-12' LN
LITTLE WHITE OAK BAYOU
EXISTING GROUND
*OVERALL WIDTH AND NUMBER OF LANES VARY BASED ON LANE TRANSITIONS

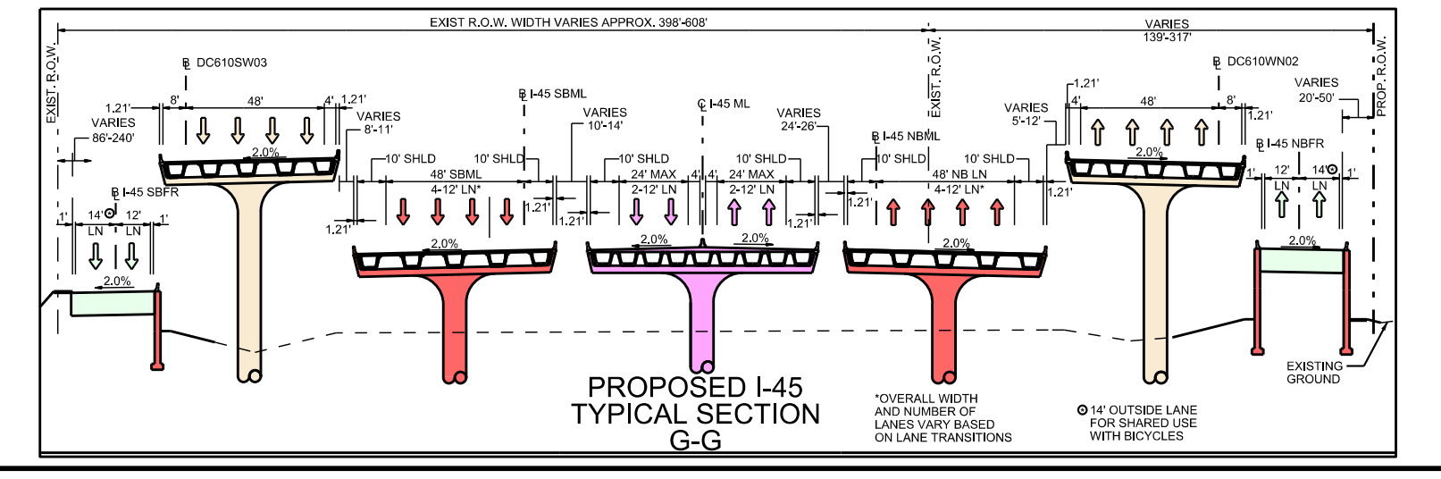
PROPOSED I-45
TYPICAL SECTION
D-D


EXIST R.O.W. WIDTH VARIES APPROX. 300' - 397'
DC610ES04
DC610NE01
RAMP
I-45 SBFR
I-45 NBFR
I-45 SBML
I-45 NBML
I-45 ML
EXISTING GROUND
*OVERALL WIDTH AND NUMBER OF LANES VARY BASED ON LANE TRANSITIONS
14' OUTSIDE LANE FOR SHARED USE WITH BICYCLES

PROPOSED I-45
TYPICAL SECTION
E-E


EXIST R.O.W. WIDTH VARIES (THROUGH INTERCHANGE)
I-45 SBFR
I-45 SBML
I-45 ML
I-45 NBML
I-45 NBFR
EXISTING GROUND
14' OUTSIDE LANE FOR SHARED USE WITH BICYCLES
*OVERALL WIDTH AND NUMBER OF LANES VARY BASED ON LANE TRANSITIONS

PROPOSED I-45
TYPICAL SECTION
F-F


EXIST R.O.W. WIDTH VARIES APPROX. 299'-408'
DC610SW03
DC610WN02
I-45 SBFR
I-45 SBML
I-45 ML
I-45 NBML
VARIES 86'-240'
EXISTING GROUND
*OVERALL WIDTH AND NUMBER OF LANES VARY BASED ON LANE TRANSITIONS
14' OUTSIDE LANE FOR SHARED USE WITH BICYCLES

PROPOSED I-45
TYPICAL SECTION
G-G

PROFILE LEGEND

| | |
|---|---|
| PROP. PGL @ CL/NB/EB MAINLANE | — |
| PROP. PGL @ SB/WB MAINLANE | — — |
| PROP. PGL @ MAX LANES | — |
| EXISTING GROUND @ PGL | — - — |
| 100 YR. W.S.E. | ▽ |
| PROP. PGL @ NB/EB RAMP | — |
| PROP. PGL @ SB/WB RAMP | — — |
| PROP. PGL @ NB/EB DC | — |
| PROP. PGL @ SB/WB DC | — — |
| PROP. PGL @ NB/EB FRONTAGE | — |
| PROP. PGL @ SB/WB FRONTAGE | — — |
| PROP. PGL @ LOCAL ST | — |
| EXIST. GRND. @ NB/EB ROW | - - - |
| EXIST. GRND. @ SB/WB ROW | - - - |

LIMITS OF FLOODWAY
SIGNED BIKE ROUTE
WHITE OAK DR
WOODLAND PARK
MUFFERD ST
EXIST ROW
WRIGHTWOOD ST
LITTLE WHITE OAK BAYOU
EXISTING CULVERT TO BE REMOVED
WOODLAND COMMUNITY CENTER
PARKVIEW ST
PAYNE ST
NORTH ST
EXISTING R.O.W.
PROPOSED NOISE BARRIER
ALMA ST
HOUSTON AVE
DOMINO'S
CHEF HUNAN BO
SOUTH ST
THOMAS ST
CARL ST
MORRIS ST
FLETCHER ST
IDEAL ST
EMBRY ST
SKYLANE DOWNTOWN APARTMENTS
WOODLAND ST
OLEANDER ST
FARWOOD ST
GROTA ST
N MAIN ST
E NORMA ST
W NORMA ST
MORRISON ST
REDAN ST
PECORE ST
MCDONALD'S
WHATABURGER
O'REILLY AUTOPARTS
EXXON
FIESTA PAWN
PYRAMID IMPORTS
ARGO
HOLY CROSS CATHOLIC CEMETERY
HOLLYWOOD CEMETERY
EMERALD CT
OPAL CT
DELL CT
COTSWOLD ST
KARNES ST
TRIMBLE ST
PROPOSED R.O.W.
HIGHWAY CAP/ POTENTIAL OPEN SPACE
COTTAGE ST
TEMPLE ST
MELWOOD ST
HOUSTON FOOD BANK
SLEEP INN & SUITES
POTENTIAL DETENTION POND LOCATION
TOP BRASS MILITARY & TACTICAL
CITGO
AMERICA'S BEST VALUE INN
LUXURY INN
LOVE'S TRAVEL STOP
CITY OF HOUSTON
ARCHER ST
VINCENT ST
FUGATE ST
W GARDNER ST
PERFORMANCE MUSTANGS
HESLEP ST
PROPOSED AESTHETIC WALL
W PATTON ST
PATTON ST
VARA'S SPORT BAR
FREEMONT ST
UNITED ACCESS
JEWETT ST
CORONADO
CORONADO ST
AMUNDSEN ST
FRAWLEY ST
PITTMAN ST
MATHIS ST
CORDELL ST
PETTIT ST
ENID ST
ACME
TIGER MART
EXISTING BIKE LANE
W CAVALCADE ST
CAVALCADE ST
ASTRO INN
TARVER ST
EXXON
WYNNE ST
AIRLINE PRODUCE BOX AND PALLET INC
PROPOSED BYPASS RAMP
LINK RD
FAX SERVICE
ROBERT LEE RD
EICHWURZEL LN
SYLVESTER RD
LEON ST
E 28TH ST
610
45
AMASA ST
NORLAND ST
MELBOURNE ST
LINDALE CHURCH OF CHRIST
STYERS ST
REID ST
STOKES ST
HOUSTON BELT & TERMINAL
FULTON ST
A
B
C
D
E
F
G
PRELIMINARY SUBJECT TO CHANGE
END SEGMENT 3 BEGIN SEGMENT 2
END SEGMENT 2 BEGIN SEGMENT 1

HOUSTON DISTRICT
PROJECT DEVELOPMENT
NHHIP - SEGMENT 2 - I-45
PRELIMINARY SUBJECT TO CHANGE
FEIS SCHEMATIC
HNTB