HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP - SEGMENT 3 - I-45

PRELIMINARY
SUBJECT TO CHANGE

HNTB
HNTB Corporation
1301 Fannin St, Suite 2000
Houston, TX 77002
TBPE Firm Registration No. 420

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

3/9

FEIS SCHEMATIC

NHHIP
I-45 SEGMENT 3

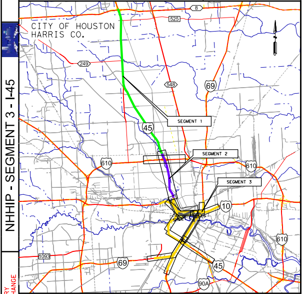
COUNTY: HARRIS
LIMITS FROM: SCOTT ST
LIMITS TO: QUITMAN ST
DATE: 3/24/2020
APPROVED:

CONSTRUCTION CSJ:0027-13-200, 0027-13-201, 0027-13-221, 0500-03-598, 0500-03-599, 0500-03-601, 0500-08-001

PRELIMINARY CSJ: 0912-00-146, 0912-00-147, 0912-00-479

ROADWAY	FUNCTIONAL CLASSIFICATION	DESIGN SPEED
MAINLANES	URBAN FREEWAY	50 MPH
DIRECT CONNECTORS	DIRECT CONNECTORS	40 MPH
DOWNTOWN CONNECTORS	DIRECT CONNECTORS	40 MPH
RAMPS	RAMPS	30 MPH
CITY STREETS	URBAN MINOR ARTERIAL/ URBAN COLLECTOR	30 MPH

HORZ SCALE: 1"=200'
0 50 100 200
VERT SCALE: 1"=20'
0 5 10 20


CITY OF HOUSTON
HARRIS CO.
8
525
249
548
69
45
SEGMENT 1
SEGMENT 2
SEGMENT 3
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

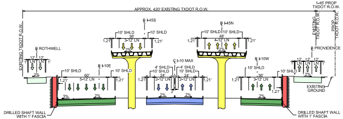
PLAN LEGEND

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
EXISTING RDWY TO REMAIN	▬	▬	—	2		
HIGHWAY CAP/POTENTIAL OPEN SPACE			▨	7		
EXISTING RDWY TO BE REMOVED			▨	1		
SURPLUS ROW			▨	3	RED	3
CONVENTION CENTER STORAGE			▨	5	PURPLE	62
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	BLUE	168
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

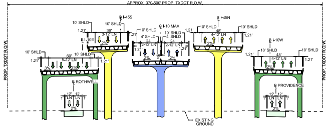
PRELIMINARY
SUBMITTED FOR REVIEW
Engineer: DARRIN J. WILLER
P.E. Serial No.: 82119
Date: 3/24/2020
Signature:
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

TxDOT (DISTRICT-"APPROVED BY")
LETTER DATED

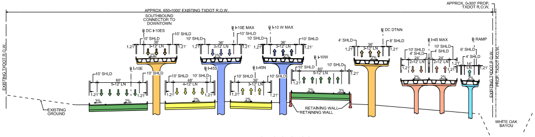
FHWA REPRESENTATIVES ("APPROVED BY")
LETTER DATED


APPROX. 420' EXISTING TXDOT R.O.W.
1-45' PROP TXDOT R.O.W.
EXISTING TXDOT R.O.W.
PROP TXDOT R.O.W.
℄ ROTHWELL
12' LN 12' LN 1'
℄ I-45S
10' SHLD
36'
3-12' LN
1.21'
2%
℄ I-45N
48'
4-12' LN
℄ I-10E
60'
5-12' LN
3%
℄ I-10 MAX
4' SHLD
24'
2-12' LN
2'
℄ I-10W
℄ PROVIDENCE
EXISTING GROUND
DRILLED SHAFT WALL WITH 1' FASCIA

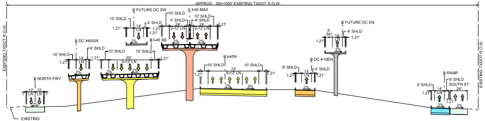
PROPOSED TYPICAL SECTION A-A
NTS


APPROX. 370-500' PROP. TXDOT R.O.W.
PROP. TXDOT R.O.W.
℄ I-45S
10' SHLD
36'
3-12' LN
1.21'
℄ I-10E
60'
5-12' LN
3%
2%
℄ I-10 MAX
4' SHLD
24'
2-12' LN
2'
℄ I-45N
48'
4-12' LN
℄ I-10W
℄ ROTHWELL
12' LN 12' LN 1'
℄ PROVIDENCE
EXISTING GROUND

PROPOSED TYPICAL SECTION B-B
NTS


APPROX. 650-1000' EXISTING TXDOT R.O.W.
APPROX. 0-300' PROP. TXDOT R.O.W.
EXISTING TXDOT R.O.W.
PROP. TXDOT R.O.W.
SOUTHBOUND CONNECTOR TO DOWNTOWN
℄ DC I-10ES
℄ I-10E MAX
℄ I-10 W MAX
℄ DC DTNN
℄ I-45 MAX
℄ RAMP
℄ I-10E
℄ I-45S
℄ I-45N
℄ I-10W
10' SHLD
4' SHLD
8' SHLD
6' SHLD
36'
3-12' LN
60'
5-12' LN
48'
4-12' LN
24'
2-12' LN
14' LN
1.21'
2%
3%
RETAINING WALL
EXISTING GROUND
WHITE OAK BAYOU

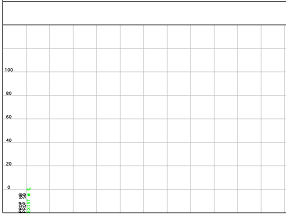
PROPOSED TYPICAL SECTION C-C
NTS

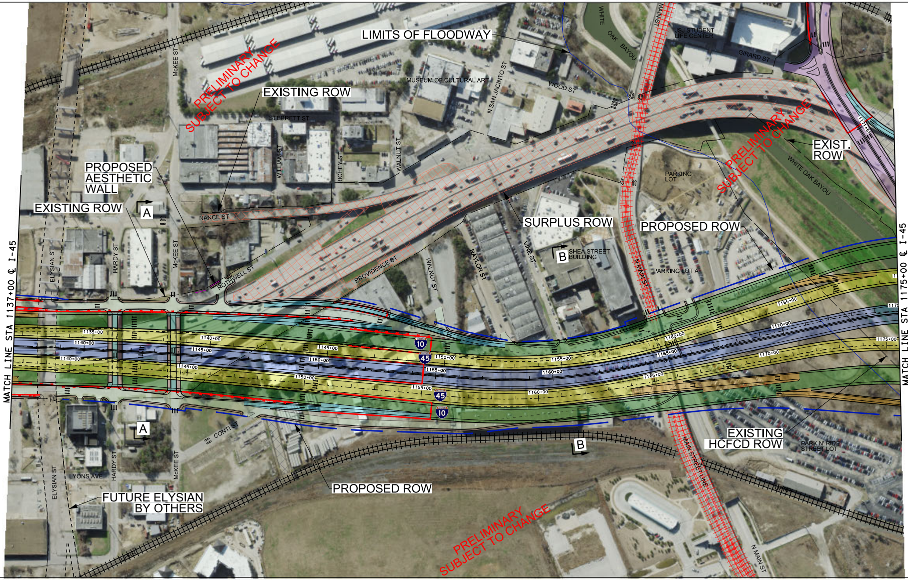

APPROX. 350-1000' EXISTING TXDOT R.O.W.
EXISTING TXDOT R.O.W.
℄ FUTURE DC SW
℄ I-45 MAX
℄ DC I-45SW
℄ I-45 SB
℄ NORTH FWY
℄ I-45N
℄ DC I-10EN
℄ FUTURE DC EN
℄ RAMP
SOUTH ST
10' SHLD
4' SHLD
8' SHLD
6' SHLD
8' SH
14' LN
24'
2-12' LN
60'
5-12' LN
72'
6-12' LN
12' LN
1.21'
2%
3%
2'
EXISTING GROUND

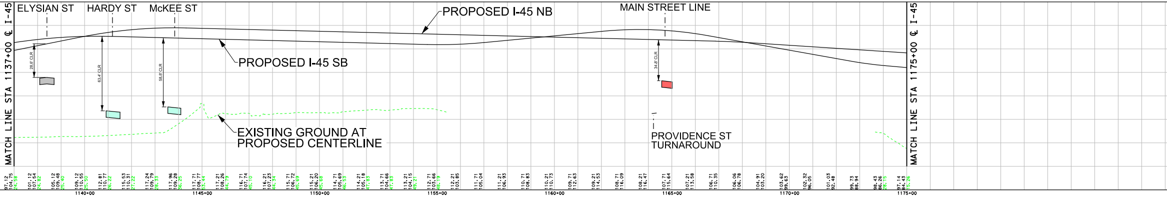
PROPOSED TYPICAL SECTION D-D
NTS

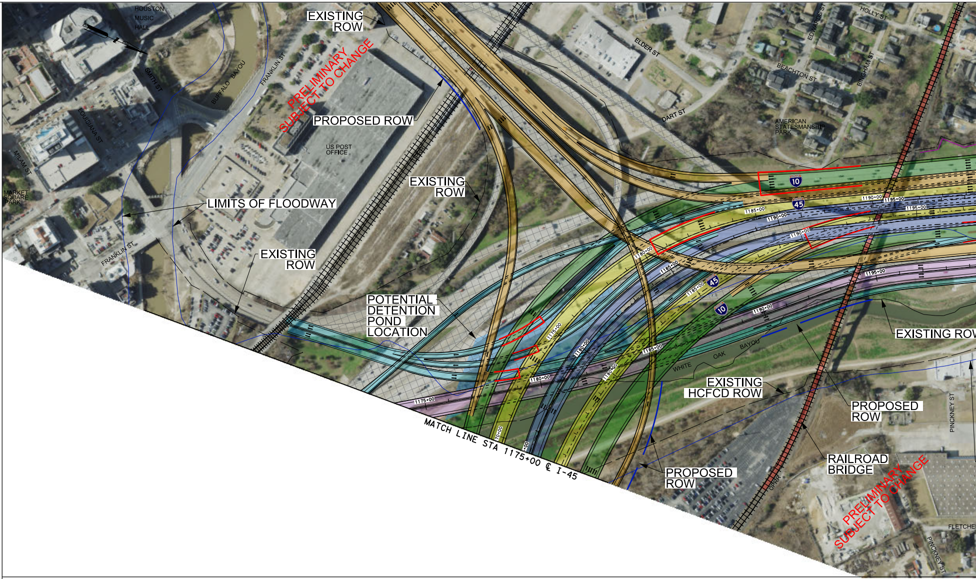
PROFILE LEGEND

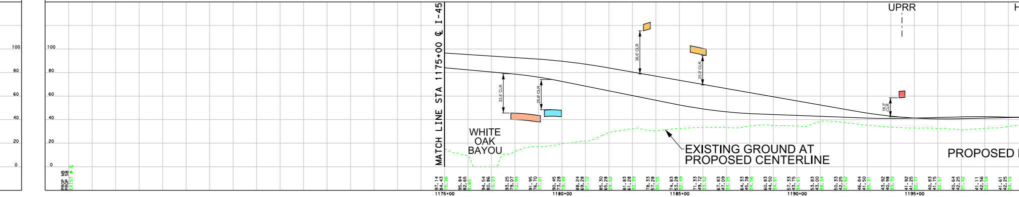
PROP. PGL @ CL/NB/EB MAINLANE	—
PROP. PGL @ SB/WB MAINLANE	— —
PROP. PGL @ MAX LANES	—
EXISTING GROUND @ PGL	– · –
100 YR. W.S.E.	▽
PROP. PGL @ NB/EB RAMP	—
PROP. PGL @ SB/WB RAMP	— —
PROP. PGL @ NB/EB DC	—
PROP. PGL @ SB/WB DC	— —
PROP. PGL @ NB/EB FRONTAGE	—
PROP. PGL @ SB/WB FRONTAGE	— —
PROP. PGL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



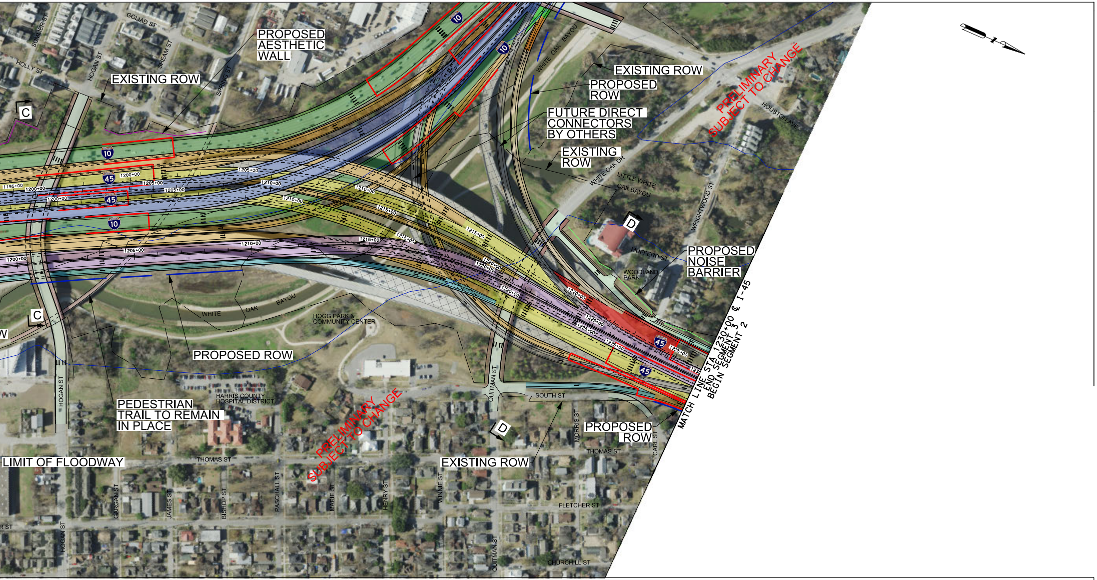

LIMITS OF FLOODWAY
PRELIMINARY SUBJECT TO CHANGE
EXISTING ROW
MUSEUM OF CULTURAL ART
WOOD ST
N SAN JACINTO ST
WHITE OAK BAYOU
MAIN ST
ISJ STUDENT LIFE CENTER
GIRARD ST
STERRETT ST
WILLIAM ST
RICHEY ST
WALNUT ST
McKEE ST
PROPOSED AESTHETIC WALL
EXISTING ROW
A
NANCE ST
PRELIMINARY SUBJECT TO CHANGE
EXIST. ROW
PARKING LOT
SURPLUS ROW
PROPOSED ROW
B
SHEA STREET BUILDING
PARKING LOT A
VINE ST
NAYLOR ST
N MAIN ST
PROVIDENCE ST
ROTHWELL ST
ELYSIAN ST
HARDY ST
MATCH LINE STA 1137+00 ℄ I-45
MATCH LINE STA 1175+00 ℄ I-45
1135+00
1140+00
1145+00
1150+00
1155+00
1160+00
1165+00
1170+00
1175+00
10
45
A
CONTI ST
B
EXISTING HCFCD ROW
PARK N' RIDE STREET LOT
MAIN STREET LINE
LYONS AVE
FUTURE ELYSIAN BY OTHERS
PROPOSED ROW
PRELIMINARY SUBJECT TO CHANGE
N MAIN ST


MATCH LINE STA 1137+00 ℄ I-45
ELYSIAN ST
HARDY ST
McKEE ST
PROPOSED I-45 NB
MAIN STREET LINE
PROPOSED I-45 SB
28.6' CLR
63.4' CLR
58.8' CLR
34.8' CLR
EXISTING GROUND AT PROPOSED CENTERLINE
PROVIDENCE ST TURNAROUND
MATCH LINE STA 1175+00 ℄ I-45
97.12 104.75 24.58
101.12 107.54 24.82
105.12 109.48 25.40
109.12 110.55 25.50
112.81 110.77 26.22
115.53 110.31 27.22
117.24 109.79 28.33
117.96 109.28 36.25
117.71 108.77 53.44
117.21 108.26 44.79
116.71 107.74 45.10
116.21 107.23 44.34
115.71 106.72 45.69
115.21 106.20 45.68
114.71 105.69 46.53
114.21 105.18 47.83
113.71 104.66 47.83
113.21 104.15 49.21
112.71 103.66 48.19
112.21 103.85
111.71 105.04
111.21 106.93
110.71 108.83
110.21 110.73
109.71 112.63
109.21 114.53
108.71 116.09
108.21 116.47
107.71 115.64
107.21 113.58
106.71 110.35
106.06 106.78
104.91 103.20
103.62 99.63
102.32 96.05
101.03 92.48
99.73 88.94
98.43 86.26 28.15
97.14 84.43 15.26
1140+00
1145+00
1150+00
1155+00
1160+00
1165+00
1170+00
1175+00


HOUSTON MUSIC HALL
SMITH ST
BUFFALO BAYOU
FRANKLIN ST
LOUISIANA ST
MILAM ST
MARKET SQUARE PARK
FRANKLIN ST
EXISTING ROW
PRELIMINARY SUBJECT TO CHANGE
PROPOSED ROW
US POST OFFICE
EXISTING ROW
LIMITS OF FLOODWAY
EXISTING ROW
POTENTIAL DETENTION POND LOCATION
ELDER ST
DART ST
BEACHTON ST
EDWARDS ST
HOLLY ST
BINGHAM ST
AMERICAN STATESMANSHIP PARK
10
45
45
10
1175+00
1180+00
1185+00
1190+00
1195+00
WHITE OAK BAYOU
EXISTING ROW
EXISTING HCFCD ROW
PROPOSED ROW
RAILROAD BRIDGE
PROPOSED ROW
UPRR
PINCKNEY ST
FLETCHER
PINCKNEY ST
PRELIMINARY SUBJECT TO CHANGE
MATCH LINE STA 1175+00 ℄ I-45


100
80
60
40
20
0
MATCH LINE STA 1175+00 ℄ I-45
UPRR
33.4' CLR
25.6' CLR
36.6' CLR
25.0' CLR
16.5' CLR
WHITE OAK BAYOU
EXISTING GROUND AT PROPOSED CENTERLINE
PROPOSED

	PROP NB	PROP SB	EXIST ℄
1175+00	97.14	84.43	15.26
	95.84	82.65	9.65
	94.54	80.86	-0.03
	93.25	79.07	12.98
	91.95	76.70	17.01
1180+00	90.45	73.28	19.48
	88.24	69.28	21.72
	85.30	65.28	29.02
	81.83	61.28	32.39
	78.33	57.28	30.55
1185+00	74.83	53.28	32.49
	71.33	49.72	33.52
	67.83	47.09	33.25
	64.33	45.38	34.56
	60.83	44.50	34.91
1190+00	57.33	43.75	34.61
	53.83	43.00	38.34
	50.33	42.25	37.62
	46.84	41.50	35.31
	43.92	40.98	33.70
1195+00	41.92	41.25	32.77
	40.83	41.75	32.57
	40.64	42.25	31.42
	41.11	42.56	32.58
	41.61	42.25	34.15


PROPOSED AESTHETIC WALL
EXISTING ROW
EXISTING ROW
PROPOSED ROW
FUTURE DIRECT CONNECTORS BY OTHERS
EXISTING ROW
PROPOSED NOISE BARRIER
PROPOSED ROW
PEDESTRIAN TRAIL TO REMAIN IN PLACE
LIMIT OF FLOODWAY
EXISTING ROW
PROPOSED ROW
PRELIMINARY SUBJECT TO CHANGE
PRELIMINARY SUBJECT TO CHANGE
MATCH LINE STA 1230+00 ℄ I-45
END SEGMENT 3
BEGIN SEGMENT 2
SUMMER ST
GOLIAD ST
HOLLY ST
HOGAN ST
SHEAM ST
SPRING ST
WHITE OAK BAYOU
HOUSTON AVE
WHITE OAK DR
LITTLE WHITE OAK BAYOU
WRIGHTWOOD ST
MUFFERD ST
WOODLAND PARK
WHITE OAK BAYOU
HOGG PARK & COMMUNITY CENTER
HARRIS COUNTY HOSPITAL DISTRICT
HOGAN ST
QUITMAN ST
SOUTH ST
MORRIS ST
CARL ST
THOMAS ST
THOMAS ST
FLETCHER ST
CHURCHILL ST
GARGAN ST
JAMES ST
BISHOP ST
PASCHALL ST
MARIE ST
HENRY ST
WINNIE ST
QUITMAN ST
HOGAN ST
C
C
D
D
10
10
10
10
45
45
45
45
1195+00
1200+00
1200+00
1200+00
1200+00
1205+00
1205+00
1205+00
1205+00
1210+00
1210+00
1210+00
1210+00
1215+00
1215+00
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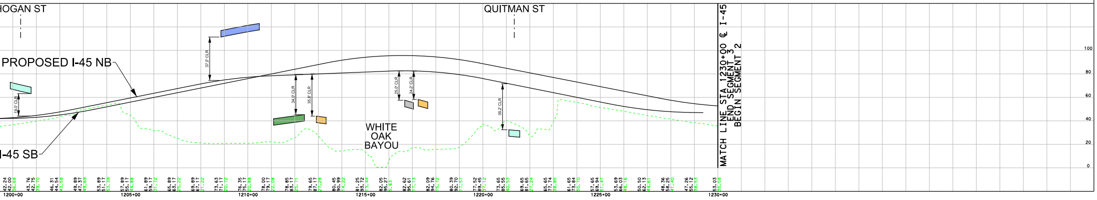
1225+00
1225+00
1225+00


HOGAN ST
QUITMAN ST
PROPOSED I-45 NB
I-45 SB
WHITE OAK BAYOU
19.0' CLR
37.0' CLR
34.0' CLR
35.8' CLR
25.0' CLR
24.2' CLR
39.2' CLR
MATCH LINE STA 1230+00 ℄ I-45
END SEGMENT 3
BEGIN SEGMENT 2
100
80
60
40
20
0
1200+00
1205+00
1210+00
1215+00
1220+00
1225+00
1230+00

3	9

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

HNTB

HNTB Corporation
1301 Fannin St, Suite 2000
Houston, TX 77002
TBPE Firm Registration No. 420

PRELIMINARY
SUBJECT TO CHANGE

NHHIP - SEGMENT 3 - I-45

HOUSTON DISTRICT
PROJECT DEVELOPMENT

PREPARED BY: joherrera FILE LOCATION: pw://pw-int.hntb.org:PWCentralDiv/Documents/Austin Projects/58557 SPD 5 by 25/Design and Engineering/I45_NHHIP/Roadway/[illegible]-FEIS.dgn SCALE: 200.0000 ft / in. PEN TABLE: pw://pw-int.hntb.org:PWCentralDiv/Documents/Austin Projects/58557 SPD 5 by 25/Design and Engineering/I45_NHHIP/Plot/58557_IH45.pen