HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP - SEGMENT 3 - I-10

PRELIMINARY
SUBJECT TO CHANGE

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

FEIS SCHEMATIC

NHHIP
I-10 SEGMENT 3

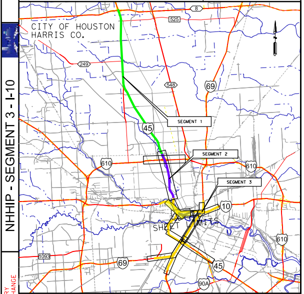
COUNTY: HARRIS
LIMITS FROM: HOUSTON AVE
LIMITS TO: WACO ST
DATE: 4/14/2020
APPROVED:

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
610
10
1093
90A
SEGMENT 1
SEGMENT 2
SEGMENT 3
SHEET

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			—x—x—	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

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

PREPARED BY: jonerrera

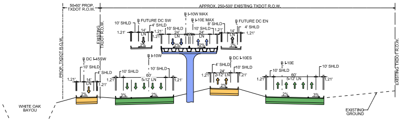
6
9

PRELIMINARY
SUBMITTED FOR REVIEW
Engineer: DARRIN J. WILLER
P.E. Serial No.: 82119
Date: 4/14/2020
Signature:
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

TxDOT (DISTRICT-"APPROVED BY")
LETTER DATED

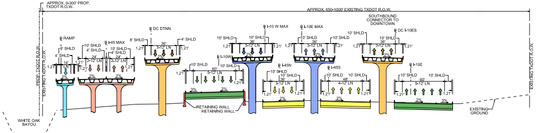
FHWA REPRESENTATIVES ("APPROVED BY")
LETTER DATED

SHEET 6 OF 9



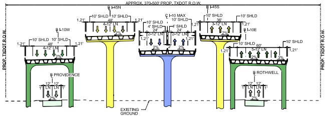
50-60' PROP. TXDOT R.O.W.
APPROX. 250-500' EXISTING TXDOT R.O.W.
PROP. TXDOT R.O.W.
EXISTING TXDOT R.O.W.
℄ I-10W MAX
℄ I-10E MAX
℄ FUTURE DC SW
℄ FUTURE DC EN
℄ DC I-45SW
℄ I-10W
℄ DC I-10ES
℄ I-10E
10' SHLD
4' SHLD
8' SHLD
14' LN
24' LN
60' 5-12' LN
1.21'
2%
3%
WHITE OAK BAYOU
EXISTING GROUND

PROPOSED TYPICAL SECTION A-A
NTS



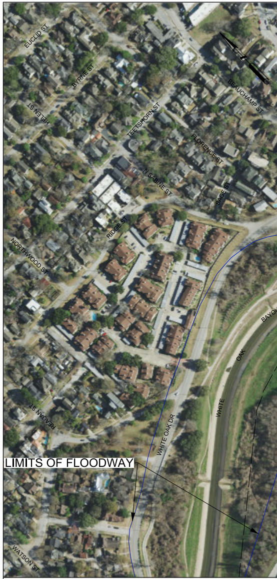
APPROX. 0-300' PROP. TXDOT R.O.W.
APPROX. 650-1000' EXISTING TXDOT R.O.W.
PROP. TXDOT R.O.W.
EXISTING TXDOT R.O.W.
℄ RAMP
℄ I-45 MAX
℄ DC DTNN
℄ I-10W
℄ I-10 W MAX
℄ I-10E MAX
SOUTHBOUND CONNECTOR TO DOWNTOWN
℄ DC I-10ES
℄ I-45N
℄ I-45S
℄ I-10E
6' SHLD
4' SHLD
8' SHLD
10' SHLD
14' LN
24' 2-12' LN
36'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

PROPOSED TYPICAL SECTION B-B
NTS

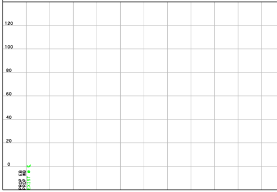


APPROX. 370-500' PROP. TXDOT R.O.W.
PROP. TXDOT R.O.W.
℄ I-45N
℄ I-45S
℄ I-10W
℄ I-10 MAX
℄ I-10E
℄ PROVIDENCE
℄ ROTHWELL
10' SHLD
4' SHLD
48' 4-12' LN
36' 3-12' LN
24' 2-12' LN
60' 5-12' LN
12' LN
1.21'
2%
3%
EXISTING GROUND

PROPOSED TYPICAL SECTION C-C
NTS

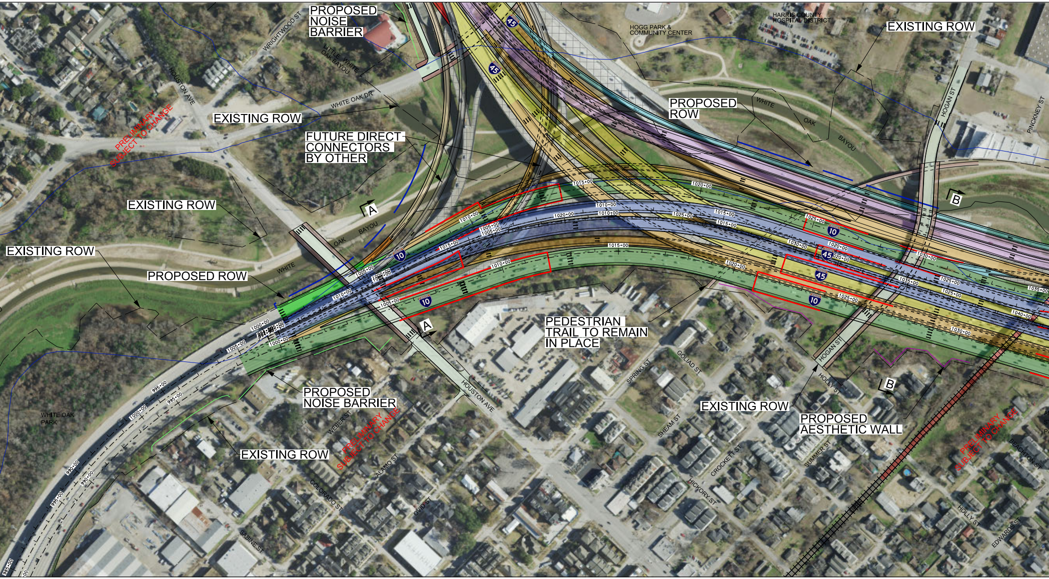


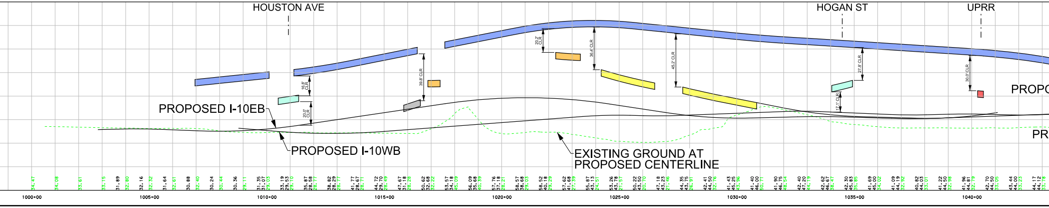
EUCLID ST
BYRNE ST
HELEN ST
TEETSHORN ST
BEAUCHAMP ST
FLORENCE ST
N SABINE ST
SAGE ST
RIDGE ST
NORTHWOOD ST
REAGAN ST
WHITE OAK DR
WATSON ST
WHITE
OAK
BAYOU
LIMITS OF FLOODWAY

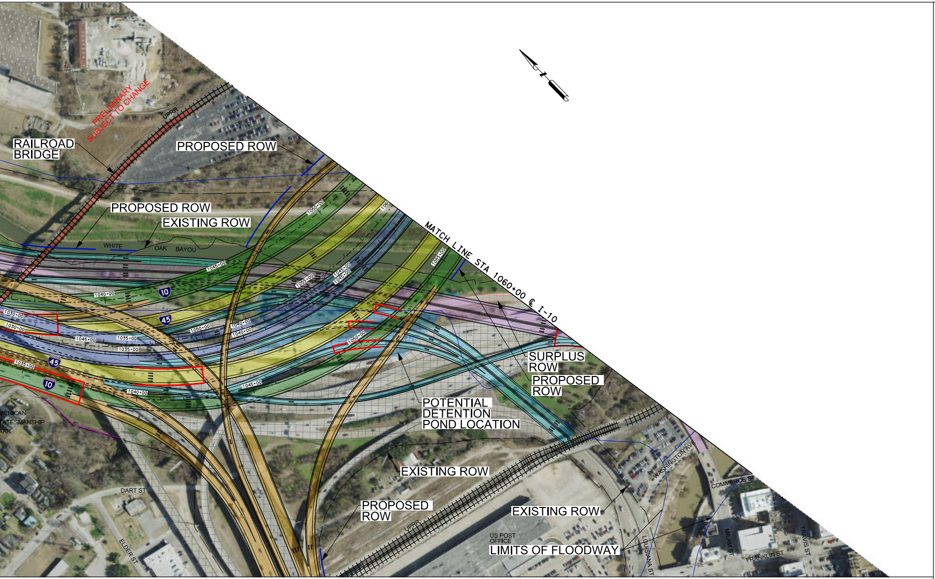


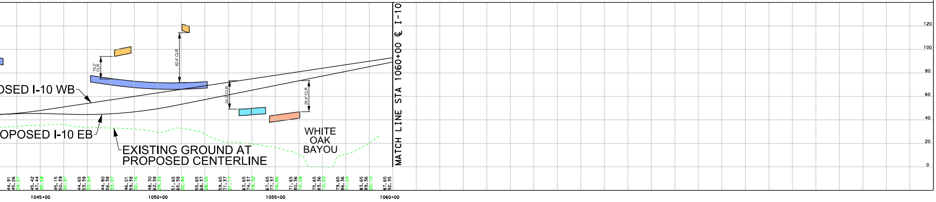
PROFILE LEGEND

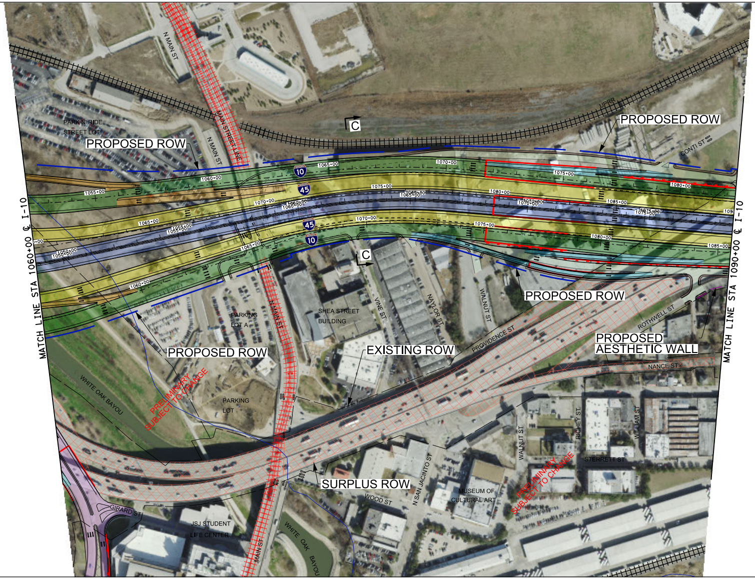
PROP. PGL @ CL/NB/EB MAINLANE	—
PROP. PGL @ SB/WB MAINLANE	— —
PROP. PGL @ MAX LANES	—
EXISTING GROUND @ PGL	— · —
100 YR. W.S.E.	▽
PROP. PGL @ NB/EB RAMP	—
PROP. PGL @ SB/WB RAMP	— —
PROP. PGL @ NB/EB DC	—
PROP. PGL @ SB/WB DC	— —
PROP. PGL @ NB/EB FRONTAGE	—
PROP. PGL @ SB/WB FRONTAGE	— —
PROP. PGL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

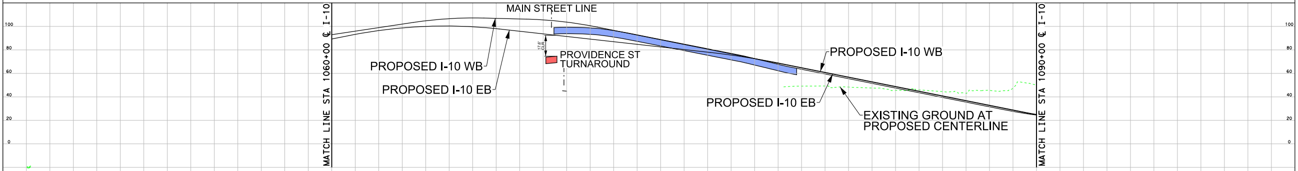

PROPOSED NOISE BARRIER
LITTLE WHITE OAK BAYOU
WRIGHTWOOD ST
HOUSTON AVE
EXISTING ROW
WHITE OAK DR
PRELIMINARY SUBJECT TO CHANGE
FUTURE DIRECT CONNECTORS BY OTHER
EXISTING ROW
EXISTING ROW
PROPOSED ROW
WHITE OAK BAYOU
A
A
45
45
10
10
10
10
45
45
10
HOGG PARK & COMMUNITY CENTER
HARRIS COUNTY HOSPITAL DISTRICT
EXISTING ROW
PROPOSED ROW
WHITE OAK BAYOU
HOGAN ST
PINCKNEY ST
B
B
1000+00
1005+00
1010+00
1015+00
1020+00
1025+00
1030+00
1035+00
1040+00
995+00
990+00
985+00
WHITE OAK PARK
PEDESTRIAN TRAIL TO REMAIN IN PLACE
PROPOSED NOISE BARRIER
WEBER ST
PRELIMINARY SUBJECT TO CHANGE
EXISTING ROW
ALAMO ST
COLORADO ST
OVID ST
SABINE ST
HOUSTON AVE
SPRING ST
GOLIAD ST
SHEAM ST
CROCKETT ST
HICKORY ST
SUMMER ST
HOGAN ST
HOLLY ST
EXISTING ROW
PROPOSED AESTHETIC WALL
PRELIMINARY SUBJECT TO CHANGE
BEACHTON ST
HOLLY ST
EDWARDS ST


HOUSTON AVE
HOGAN ST
UPRR
PROPO
PR
PROPOSED I-10EB
PROPOSED I-10WB
EXISTING GROUND AT PROPOSED CENTERLINE
16.8' CLR
20.0' CLR
39.8' CLR
20.2' CLR
36.4' CLR
45.2' CLR
27.8' CLR
17.1' CLR
30.0' CLR
34.47
34.08
33.61
33.15
31.89 32.80
32.16 32.32
31.64 32.61
30.88 32.40
30.24 30.44
30.36 29.11
31.35 31.07 29.03
33.19 29.53 29.10
35.87 28.58 28.77
38.82 28.29 28.77
41.77 28.67 28.71
44.72 29.70 28.49
47.67 31.18 28.28
50.62 32.68 32.22
53.57 34.18 45.09
56.09 35.68 40.39
57.76 37.18 28.21
58.57 38.68 29.03
58.52 40.18 29.29
57.62 41.68 27.39
55.87 43.13 24.51
53.26 43.78 21.57
50.22 43.50 20.70
47.18 43.23 21.46
44.35 43.75 26.91
42.41 44.50 32.76
41.43 45.25 43.96
41.40 46.00 50.71
41.90 46.75 48.54
42.40 47.20 44.19
42.62 46.67 38.47
42.30 45.83 35.85
41.69 45.00 34.02
41.09 44.19 32.92
40.82 44.03 33.01
41.22 44.50 32.98
41.96 44.81 32.79
42.70 44.50 33.05
43.44 44.00 33.23
44.17 44.12 33.78
1000+00
1005+00
1010+00
1015+00
1020+00
1025+00
1030+00
1035+00
1040+00


PRELIMINARY
SUBJECT TO CHANGE
UPRR
RAILROAD BRIDGE
PROPOSED ROW
PROPOSED ROW
EXISTING ROW
WHITE OAK BAYOU
MATCH LINE STA 1060+00 ℄ I-10
1030+00
1035+00
1040+00
1045+00
1050+00
1055+00
10
45
SURPLUS ROW
PROPOSED ROW
POTENTIAL DETENTION POND LOCATION
MERICAN
TATESMANSHIP
ARK
DART ST
ELDER ST
EXISTING ROW
PROPOSED ROW
UPRR
US POST OFFICE
EXISTING ROW
LIMITS OF FLOODWAY
LOUISIANA ST
WASHINGTON AVE
COMMERCE ST
MILAM ST
FRANKLIN ST
TRAVIS ST


OSED I-10 WB
OPOSED I-10 EB
19.2' CLR
42.4' CLR
24.2' CLR
26.4' CLR
EXISTING GROUND AT PROPOSED CENTERLINE
WHITE OAK BAYOU
MATCH LINE STA 1060+00 ℄ I-10
120
100
80
60
40
20
0
44.91 45.26 34.57
45.42 47.44 35.58
45.15 50.39 35.97
44.65 53.38 33.64
44.80 56.38 33.07
46.01 59.38 32.16
48.30 62.38 29.33
51.65 65.38 32.84
55.65 68.37 28.05
59.65 71.37 21.17
63.65 74.37 19.32
67.65 77.37 16.66
71.65 80.36 10.08
75.65 83.36 -0.03
79.65 86.36 11.04
83.65 89.36 20.10
87.65 92.35
1045+00
1050+00
1055+00
1060+00


N MAIN ST
MAIN STREET LINE
PARK N' RIDE
STREET LOT
PROPOSED ROW
C
UPRR
PROPOSED ROW
CONTI ST
10
45
1055+00
1060+00
1065+00
1070+00
1075+00
1080+00
1085+00
1090+00
MATCH LINE STA 1060+00 ℄ I-10
MATCH LINE STA 1090+00 ℄ I-10
C
SHEA STREET
BUILDING
VINE ST
NAYLOR ST
WALNUT ST
PROPOSED ROW
PARKING
LOT A
MAIN ST
PROPOSED ROW
EXISTING ROW
PROVIDENCE ST
ROTHWELL ST
PROPOSED
AESTHETIC WALL
NANCE ST
WHITE OAK BAYOU
PRELIMINARY
SUBJECT TO CHANGE
PARKING
LOT
RICHEY ST
WILLIAM ST
WALNUT ST
STERRETT ST
SURPLUS ROW
WOOD ST
N SAN JACINTO ST
MUSEUM OF
CULTURAL ART
PRELIMINARY
SUBJECT TO CHANGE
GIRARD ST
ISJ STUDENT
LIFE CENTER
MAIN ST
WHITE OAK BAYOU



	PROP EB	PROP WB	EXIST @ ℄
1060+00	87.65	92.35	
	91.65	95.35	
	95.27	98.35	
	97.93	101.35	
	99.61	104.28	
1065+00	100.32	106.32	
	100.06	107.18	
	98.83	106.95	
	96.74	106.45	
	94.51	105.80	
1070+00	92.29	104.13	
	90.07	101.30	
	87.84	97.44	
	85.62	93.43	
	83.39	89.43	
1075+00	81.17	85.43	
	78.95	81.42	
	76.66	77.42	
	73.85	73.41	
	70.43	69.41	
1080+00	66.50	65.41	49.19
	62.50	61.40	49.24
	58.50	57.40	48.39
	54.50	53.39	47.54
	50.50	49.39	45.54
1085+00	46.50	45.39	45.95
	42.50	41.38	44.50
	38.50	37.38	43.08
	34.50	33.37	45.60
	30.50	29.37	47.34
1090+00	26.52	25.45	50.13

HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP - SEGMENT 3 - I-10

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

6
9

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/Exhibits/Public_Hearing/Schematic/PW-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_I45.pen