HOUSTON DISTRICT
PROJECT DEVELOPMENT

FEIS SCHEMATIC

NHHIP
I-45 SEGMENT 1

COUNTY: HARRIS
LIMITS FROM: I-610
LIMITS TO: BELTWAY 8
DATE: 4/19/2019
APPROVED:

CONSTRUCTION CSJ: 0110-06-132
0110-06-139
0500-03-446
0500-03-596
PRELIMINARY CSJ: 0912-00-146

ROADWAY	FUNCTIONAL CLASSIFICATION
MAINLANES	URBAN FREEWAY
DIRECT CONNECTORS	DIRECT CONNECTORS
RAMPS	RAMPS
COLLECTOR-DISTRIBUTORS	COLLECTOR-DISTRIBUTORS
FRONTAGE ROADS	URBAN COLLECTOR
SIDE STREETS	URBAN MINOR ARTERIAL/ URBAN COLLECTOR

HORZ SCALE
0 50 100 200

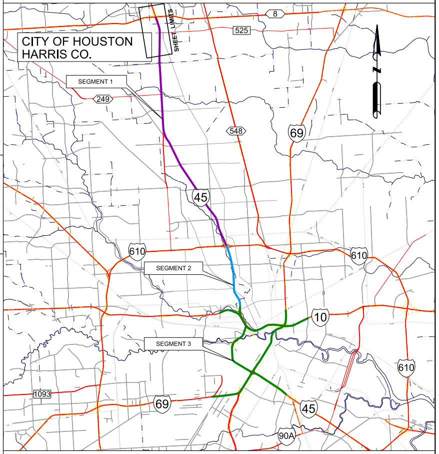
VERT SCALE
0 5 10 20

LEGEND

DESCRIPTION	ROADWAY	BRIDGE	STYLE	LINE WT	COLOR CODE	
PROPOSED CENTERLINE			— · — ·	2	BLACK	0
PROPOSED I-45 MAINLANES	🟨	🟥	—	2	BLACK	0
PROPOSED I-45 MAX LANES	🟪		—	2	BLACK	0
PROPOSED FRONTAGE ROAD/LOCAL STREET	🟩	🟩	—	2	BLACK	0
PROPOSED MAINLANE RAMP	🟦	🟦	—	2	BLACK	0
PROPOSED MAX LANE RAMP	🟪		—	2	BLACK	0
PROPOSED DIRECT CONNECTOR	🟧		—	2	BLACK	0
PROPOSED METRO CONNECTOR	🟫		—	2	BLACK	0
PROPOSED EMBANKMENT			—^—^—	2	RED	3
PROPOSED RETAINING WALL			—	2	RED	3
PROPOSED STRIPING			—	2	BLACK	0
PROPOSED SIDEWALK			—	2	ROSY BROWN	237
PROPOSED FEIS ROW			— - —	6	BLUE	126
PROPOSED CONTROL OF ACCESS			—II—	2	RED	3
PROPOSED LANE DIRECTIONAL INDICATOR			➡	1	BLACK	0
PROPOSED NOISE BARRIER			—	4	GREEN	215
PROPOSED AESTHETIC WALL			—	4	PURPLE	95
EXISTING RDWY TO BE REMOVED			▨	2	GRAY	236
EXISTING ROW			— — —	1	BLACK	0
PLANIMETRIC				2	GREEN	2
LIMITS OF FLOODWAY			—	1	LIGHT BLUE	126
EXISTING LANE DIRECTIONAL INDICATOR			⇨	1	BLACK	0
TRAFFIC COUNT YEAR (2040) DHV			(0000)	1	BLACK	0
AM MAX LANE TRAFFIC COUNT YEAR (2040) DHV			0000 AM	1	BLACK	0
PM MAX LANE TRAFFIC COUNT YEAR (2040) DHV			0000 PM	1	BLACK	0

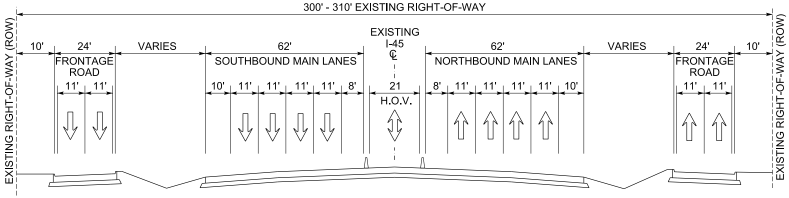
NOT A BIDDING DOCUMENT
____________________, P.E.
TBPE NO. ____________
____

LOCATION MAP

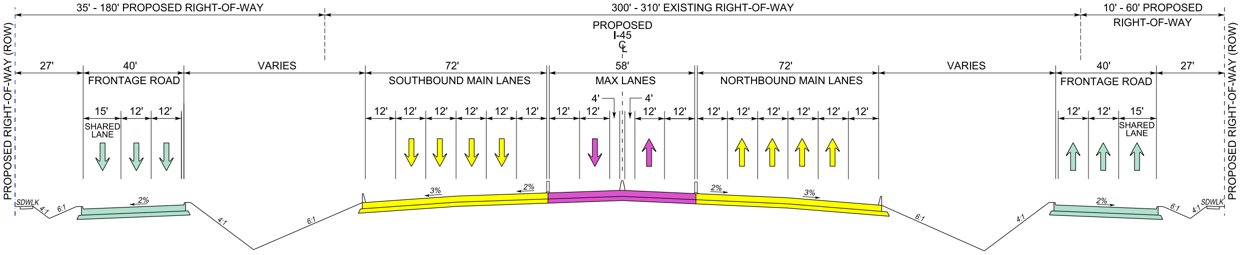

CITY OF HOUSTON
HARRIS CO.
SHEET LIMITS
SEGMENT 1
SEGMENT 2
SEGMENT 3
8
525
249
548
69
45
610
10
1093
90A
N

NOT TO SCALE

SURVEY DATA: TEXAS SOUTH CENTRAL ZONE #4204 (HARRIS COUNTY)
ADJUSTED TO SURFACE USING COMBINED SCALE FACTOR 1.00013


300' - 310' EXISTING RIGHT-OF-WAY
EXISTING RIGHT-OF-WAY (ROW)
10'
24'
FRONTAGE ROAD
11' 11'
VARIES
62'
SOUTHBOUND MAIN LANES
10' 11' 11' 11' 11' 8'
EXISTING
I-45
℄
21
H.O.V.
62'
NORTHBOUND MAIN LANES
8' 11' 11' 11' 11' 10'
VARIES
24'
FRONTAGE ROAD
11' 11'
10'
EXISTING RIGHT-OF-WAY (ROW)

EXISTING TYPICAL SECTION
WEST ROAD TO FM 525/ALDINE BENDER


35' - 180' PROPOSED RIGHT-OF-WAY
300' - 310' EXISTING RIGHT-OF-WAY
10' - 60' PROPOSED
RIGHT-OF-WAY
PROPOSED RIGHT-OF-WAY (ROW)
27'
40'
FRONTAGE ROAD
15' 12' 12'
SHARED LANE
VARIES
72'
SOUTHBOUND MAIN LANES
12' 12' 12' 12' 12' 12'
PROPOSED
I-45
℄
58'
MAX LANES
12' 12' 4' 4' 12' 12'
72'
NORTHBOUND MAIN LANES
12' 12' 12' 12' 12' 12'
VARIES
40'
FRONTAGE ROAD
12' 12' 15'
SHARED LANE
27'
PROPOSED RIGHT-OF-WAY (ROW)
SDWLK
4:1
6:1
2%
4:1
6:1
3%
2%
2%
3%
6:1
4:1
2%
6:1
4:1
SDWLK

PROPOSED TYPICAL SECTION
WEST ROAD TO FM 525/ALDINE BENDER

MATCH LINE C
160
150
140
130
120
110
100
90
80
100.04
85.41
97.54
85.38
95.14
85.98
1775+00

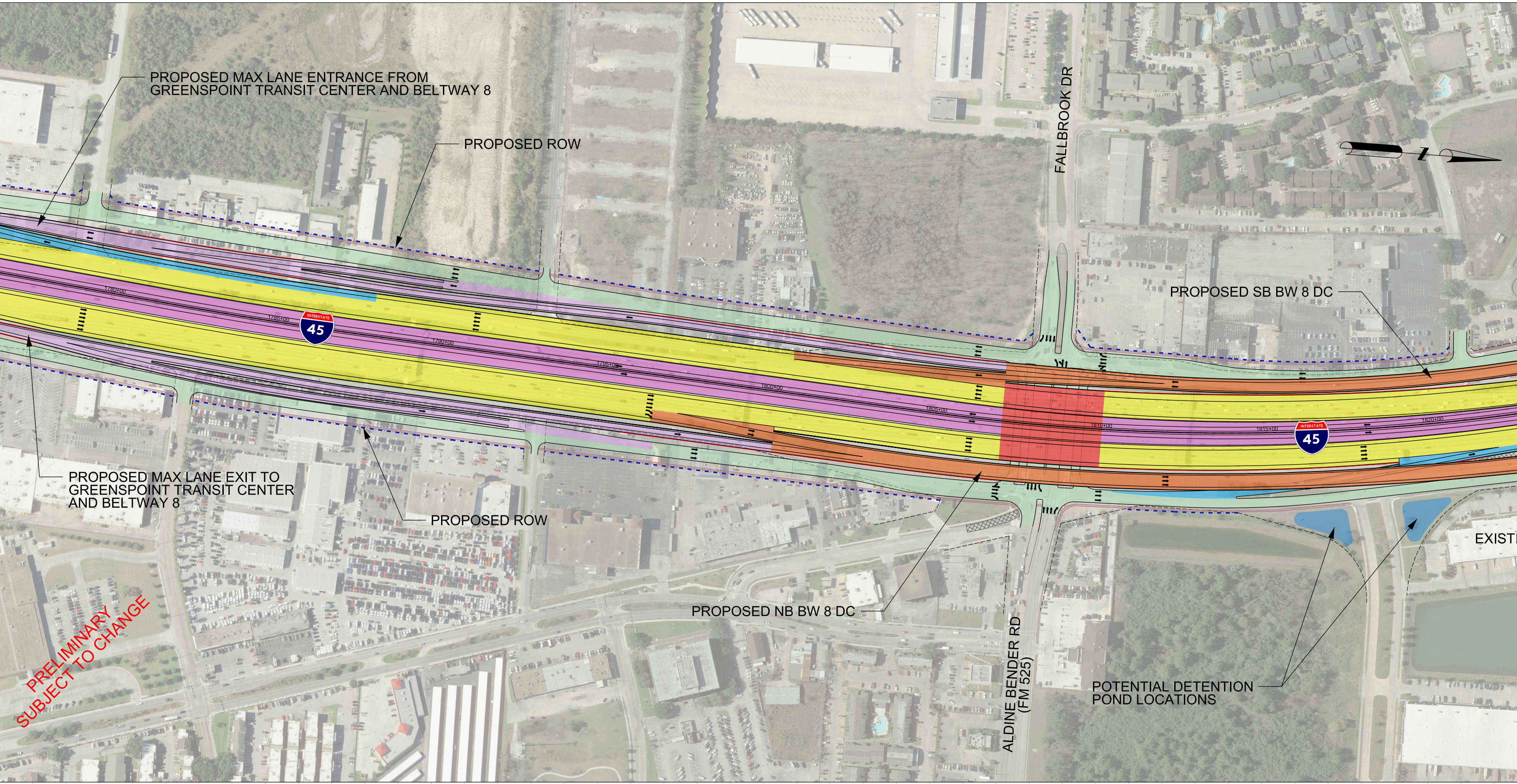
NHHIP FEIS SCHEMATIC - SEGMENT 1 - I-45

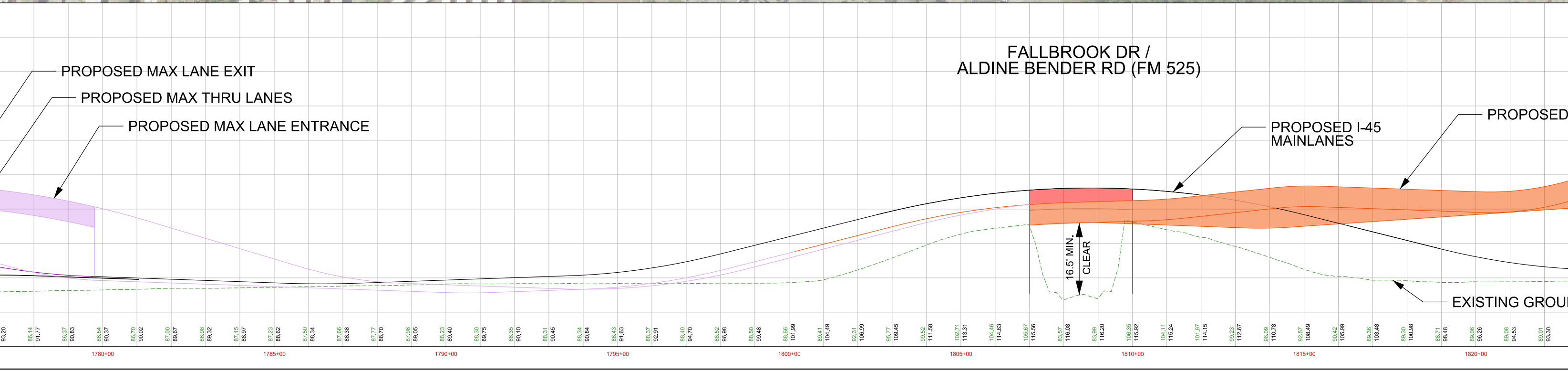
PEN TABLE: PEN
SCALE: $SCALE$
TIME: $TIME$
DATE: $DATE$
FILE LOCATION: DGN
PREPARED BY: $USER$

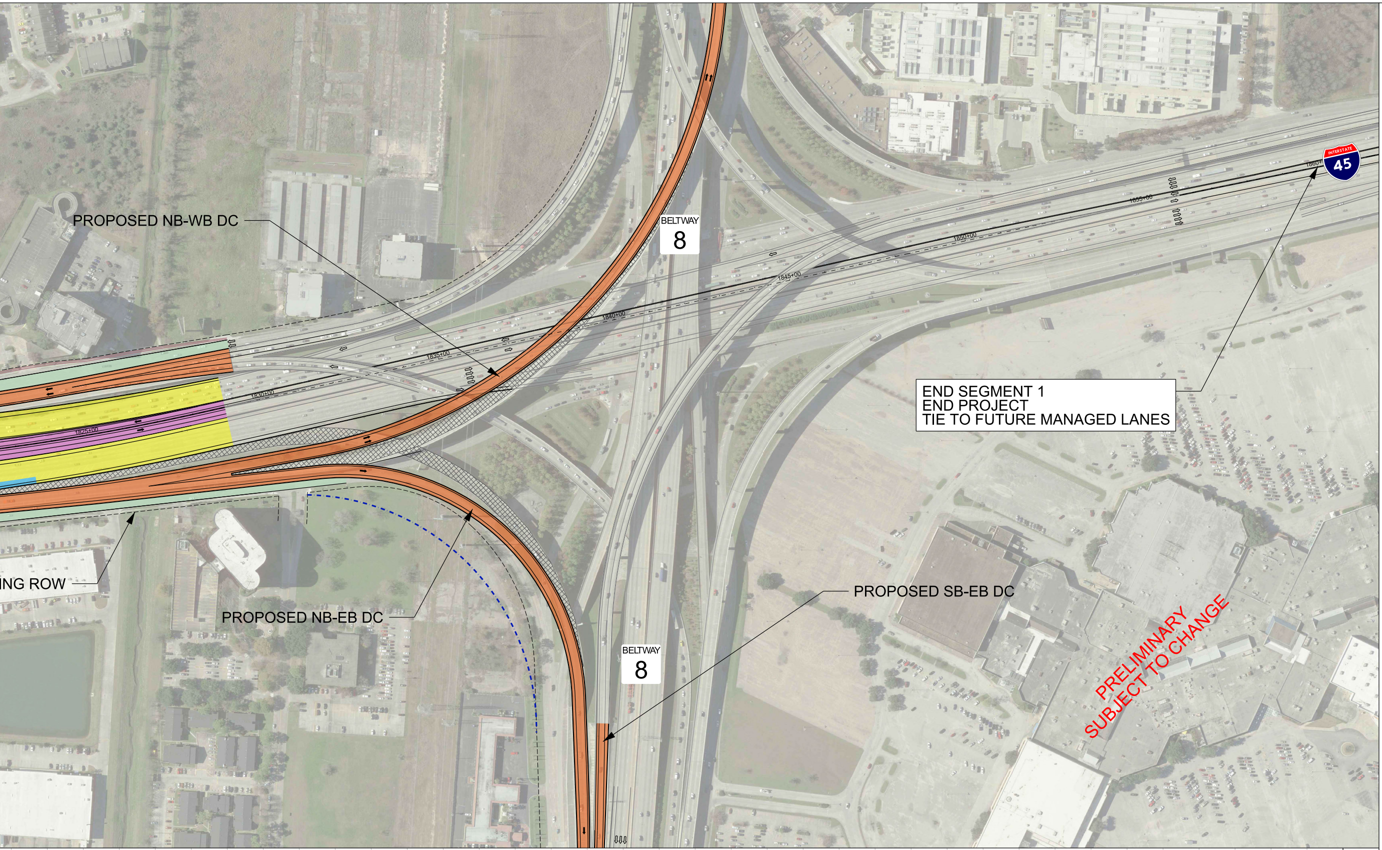
PRELIMINARY
SUBJECT TO CHANGE

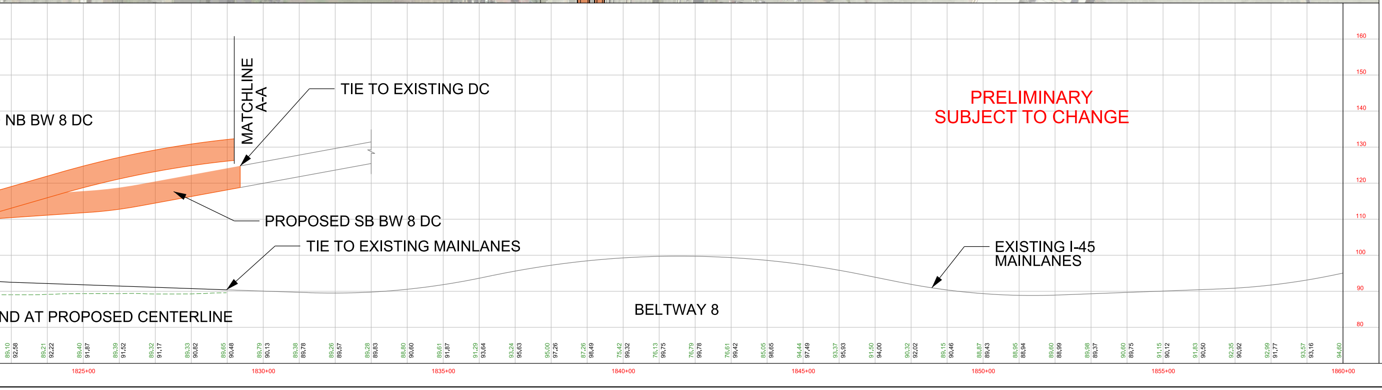
ROADWAY: I-45
COUNTY: HARRIS
LIMITS FROM: I-610
LIMITS TO: BELTWAY 8

4 / 4

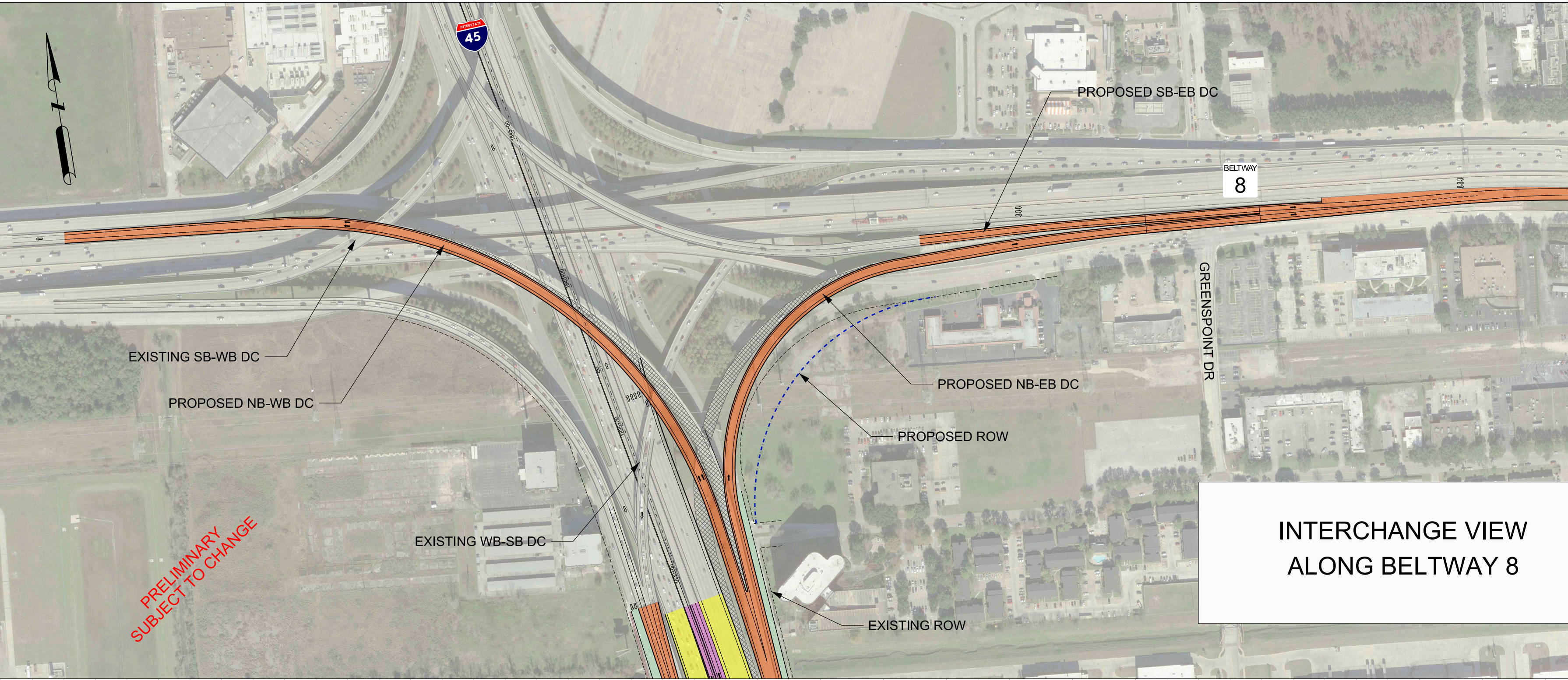

PROPOSED MAX LANE ENTRANCE FROM GREENSPOINT TRANSIT CENTER AND BELTWAY 8
PROPOSED ROW
FALLBROOK DR
PROPOSED SB BW 8 DC
45
1780+00
1785+00
1790+00
1795+00
1800+00
1805+00
1810+00
1815+00
1820+00
PROPOSED MAX LANE EXIT TO GREENSPOINT TRANSIT CENTER AND BELTWAY 8
PROPOSED ROW
EXIST
PROPOSED NB BW 8 DC
ALDINE BENDER RD (FM 525)
POTENTIAL DETENTION POND LOCATIONS
PRELIMINARY SUBJECT TO CHANGE


FALLBROOK DR / ALDINE BENDER RD (FM 525)
PROPOSED MAX LANE EXIT
PROPOSED MAX THRU LANES
PROPOSED MAX LANE ENTRANCE
PROPOSED I-45 MAINLANES
PROPOSED
16.5' MIN. CLEAR
EXISTING GROU
1780+00
1785+00
1790+00
1795+00
1800+00
1805+00
1810+00
1815+00
1820+00

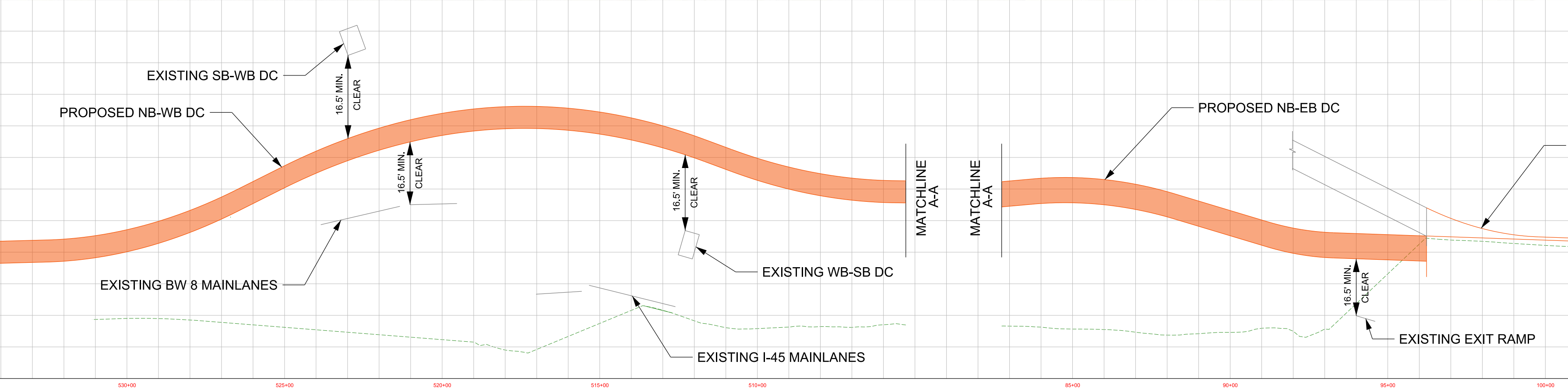

PROPOSED NB-WB DC
BELTWAY
8
45
INTERSTATE
1835+00
1840+00
1845+00
1850+00
1855+00
1860+00
END SEGMENT 1
END PROJECT
TIE TO FUTURE MANAGED LANES
ING ROW
PROPOSED NB-EB DC
PROPOSED SB-EB DC
BELTWAY
8
PRELIMINARY
SUBJECT TO CHANGE

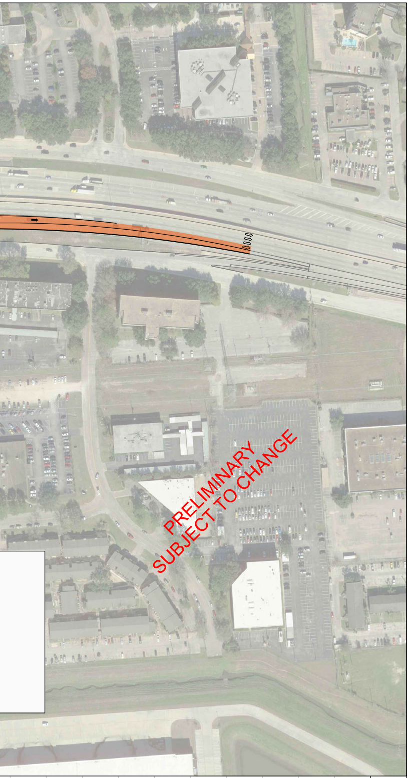

MATCHLINE
A-A
TIE TO EXISTING DC
NB BW 8 DC
PROPOSED SB BW 8 DC
TIE TO EXISTING MAINLANES
EXISTING I-45
MAINLANES
PRELIMINARY
SUBJECT TO CHANGE
ND AT PROPOSED CENTERLINE
BELTWAY 8
160
150
140
130
120
110
100
90
80
89.10 92.58
89.21 92.22
89.40 91.87
89.39 91.52
89.32 91.17
89.33 90.82
89.65 90.48
89.79 90.13
89.38 89.78
89.26 89.57
89.28 89.83
88.80 90.60
89.61 91.87
91.29 93.64
93.24 95.63
95.00 97.26
87.26 98.49
75.42 99.32
76.13 99.75
76.79 99.78
76.61 99.42
85.05 98.65
94.44 97.49
93.37 95.93
91.50 94.00
90.32 92.02
89.15 90.46
88.87 89.43
88.95 88.94
89.60 88.99
89.98 89.37
90.60 89.75
91.15 90.12
91.83 90.50
92.35 90.92
92.99 91.77
93.57 93.16
94.60
1825+00
1830+00
1835+00
1840+00
1845+00
1850+00
1855+00
1860+00

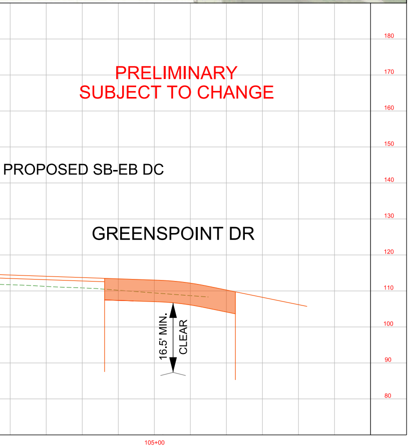
180
170
160
150
140
130
120
110
100
90
80


45
BELTWAY 8
PROPOSED SB-EB DC
EXISTING SB-WB DC
PROPOSED NB-WB DC
PROPOSED NB-EB DC
GREENSPOINT DR
PROPOSED ROW
EXISTING WB-SB DC
EXISTING ROW
PRELIMINARY
SUBJECT TO CHANGE

INTERCHANGE VIEW
ALONG BELTWAY 8


EXISTING SB-WB DC
PROPOSED NB-WB DC
16.5' MIN. CLEAR
16.5' MIN. CLEAR
16.5' MIN. CLEAR
EXISTING BW 8 MAINLANES
EXISTING WB-SB DC
EXISTING I-45 MAINLANES
MATCHLINE A-A
MATCHLINE A-A
PROPOSED NB-EB DC
16.5' MIN. CLEAR
EXISTING EXIT RAMP
530+00
525+00
520+00
515+00
510+00
85+00
90+00
95+00
100+00


PRELIMINARY
SUBJECT TO CHANGE


PRELIMINARY
SUBJECT TO CHANGE
PROPOSED SB-EB DC
GREENSPOINT DR
16.5' MIN.
CLEAR
180
170
160
150
140
130
120
110
100
90
80
105+00

HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP FEIS SCHEMATIC - SEGMENT 1 - I-45

DATE: $DATE$ TIME: $TIME$ SCALE: $SCALE$ PEN TABLE: PEN

PRELIMINARY
SUBJECT TO CHANGE

FILE LOCATION: DGN

ROADWAY:	I-45
COUNTY:	HARRIS
LIMITS FROM:	I-610
LIMITS TO:	BELTWAY 8

4/4

PREPARED BY: $USER$