NTTA®
NORTH TEXAS TOLLWAY AUTHORITY
5900 W. Plano Pkwy., Plano, Texas 75093
Gerry Carrigan, Executive Director

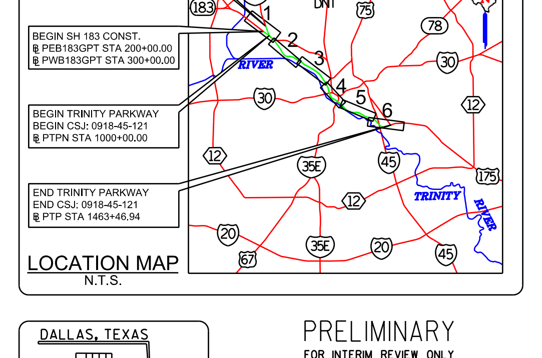
Texas Department of Transportation®
DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

DESIGN SCHEMATIC
PROPOSED TRINITY PARKWAY
FROM IH 35E / SH 183
TO US 175 / SH 310
DALLAS COUNTY, TEXAS
CSJ 0918–45–121

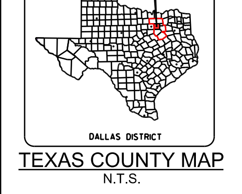
FEBRUARY 2014
ROLL 4 OF 11

PROPOSED TRINITY PARKWAY	
CSJ 0918–45–121	
FROM:	IH 35E / SH 183
TO:	US 175 / SH 310
PROJECT LENGTH:	8.79 MILES
FUNCTIONAL CLASSIFICATION:	URBAN FREEWAY
AVERAGE DAILY TRAFFIC:	54,000 (2020) 135,000 (2035)

DESIGN SPEEDS	
TRINITY PARKWAY:	60 MPH
IH 35E:	60 MPH
IH 45:	60 MPH
SH 183:	50 MPH
DIRECT CONNECTORS:	50 MPH
FRONTAGE ROADS:	40 MPH
RAMPS:	30 MPH
CROSS STREETS:	30 MPH
PARK ACCESS ROADS:	15 MPH



LOCATION MAP
N.T.S.



TEXAS COUNTY MAP
N.T.S.

PRELIMINARY
FOR INTERIM REVIEW ONLY
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HALFF ASSOCIATES, INC.
TBPE FIRM #F-312

HALFF
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200
FAX (214) 739-0095

VERTICAL SCALE: 1"=20' (0 10 20 30 40)
HORIZONTAL SCALE: 1"=200' (0 100 200 300 400)

DATE SUBMITTED: FEBRUARY 7, 2014
DATE APPROVED:

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LEGEND:

- EXISTING ROW
- EXISTING PROPERTY LIMITS
- EXISTING CONTOURS
- FUTURE LAMAR LEVEE (DRAFT, BY OTHERS)
- EXISTING BRIDGE TO REMAIN
- PROPOSED BRIDGE
- PROPOSED MAIN LANES
- PROPOSED RAMP / DC
- PROPOSED FRONTAGE ROAD
- PROPOSED CROSS STREET
- PROPOSED PARK ACCESS
- PROPOSED OPERATION AND MAINTENANCE ROAD
- PROPOSED SIDEWALK
- BRIDGE (BY OTHERS)
- PAVEMENT (BY OTHERS)
- POTENTIAL DISPLACEMENTS
- BRIDGE / PAVEMENT REMOVAL (BY OTHERS)
- PROPOSED BRIDGE / PAVEMENT REMOVAL
- PROPOSED BASELINE / CENTERLINE
- PROPOSED ROW
- PROPOSED EASEMENT
- PROPOSED CONTROL OF ACCESS
- PROPOSED ROW (BY OTHERS)
- PROPOSED EASEMENT (BY OTHERS)
- PROPOSED CONTROL OF ACCESS (BY OTHERS)
- PROPOSED EDGE OF PAVEMENT
- PROPOSED BRIDGE ABUTMENT
- PROPOSED BRIDGE BENT
- PROPOSED BRIDGE COLUMN
- PROPOSED CONCRETE TRAFFIC BARRIER
- PROPOSED RETAINING WALL
- PROPOSED SECURITY WALL
- PROPOSED FLOOD WALL
- PROPOSED DIAPHRAGM WALL
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAVEL
- BVP LAKE LOCATIONS (PROJECT BY OTHERS)
- PROPOSED EXCAVATION AREAS
- EXISTING OPERATION AND MAINTENANCE ROAD
- EXISTING TELEPHONE
- EXISTING FIBER OPTIC / CABLE TV
- EXISTING WATER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING WASTE WATER
- EXISTING FORCE MAIN
- EXISTING STORM SEWER / CULVERT
- EXISTING GAS LINE
- PROPOSED SLURRY WALL (BY OTHERS)
- PROPOSED CULVERT
- 100 YR FLOODPLAIN LIMITS
- TRINITY RIVER (DIRECTION OF FLOW)

GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL TOPOGRAPHY AND RECORD PLANS ONLY. THE AERIAL TOPOGRAPHY WAS PROVIDED BY THE USACE IN 1993. THE AERIAL IMAGES DISPLAYED ARE FOR VISUALIZATION PURPOSES ONLY. THIS IMAGERY WAS PROVIDED BY THE CITY OF DALLAS IN 2011.
2. PARCEL LIMITS AND OWNERSHIP INFORMATION WAS COLLECTED FROM THE DALLAS CENTRAL APPRAISAL DISTRICT (JANUARY 2013).
3. DIMENSIONS ARE TO EDGE OF PAVEMENT OR NOMINAL FACE OF RAIL / CURB / BARRIER (UNLESS NOTED OTHERWISE).
4. SUPERELEVATION TRANSITIONS ARE LINEAR WITH THE AXIS OF ROTATION LOCATED ON THE PGL.
5. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING PS&E.
6. AVERAGE DAILY TRAFFIC VOLUME PROJECTIONS DEVELOPED BY CDM SMITH (FEBRUARY 2013).
7. CURBS ARE TYPE 2 (UNLESS NOTED OTHERWISE).
8. ACCESS ALONG THE PROPOSED FRONTAGE ROADS WILL BE CONTROLLED BY PERMIT ONLY IN ACCORDANCE WITH THE TXDOT ACCESS MANAGEMENT MANUAL.
9. PROJECTS SHOWN AS BY OTHERS ARE PRELIMINARY. ON-GOING COORDINATION BETWEEN PROJECTS IS REQUIRED TO VERIFY IMPROVEMENTS BETWEEN PROJECTS REMAIN COMPATIBLE.
10. GUIDE SIGNS TOLLING PLAQUES MAY REQUIRE REFINEMENT DURING DETAILED SIGN DEVELOPMENT DURING PS&E DESIGN.
11. THE 100 YR WATER SURFACE ELEVATIONS ARE APPROXIMATE. THEY ARE PROJECTED FROM THE USACE – CDC MODEL (AUGUST 2012).
12. THE FLOOD SEPARATION WALL SHOULD MAINTAIN A MINIMUM HEIGHT OF 2 FEET GREATER THAN THE 100 YEAR WATER SURFACE ELEVATION. THE PURPOSE OF THE FLOOD SEPARATION WALL IS TO PREVENT THE TRINITY PARKWAY FROM FLOODING DURING A 100 YR STORM EVENT. THE SPECIFIC WALL TYPE FOR THE FLOOD SEPARATION WALLS WILL BE DETERMINED WITH FUTURE GEOTECH INVESTIGATION DURING PS&E DESIGN.
13. THE TYPE OF WALL FOR THE SECURITY WALL WILL BE DETERMINED WITH FUTURE GEOTECH INVESTIGATION DURING PS&E DESIGN.
14. THE EXACT LOCATION OF THE PROPOSED SLURRY WALL IS TO BE DETERMINED WITH FUTURE GEOTECH INVESTIGATION DURING PS&E DESIGN. THE PROPOSED SLURRY WALL IS PROVIDED TO ACCOMODATE UNDERWATER SEEPAGE.
15. EXACAVATION AREAS ARE LOCATED ON AN AS-NEEDED BASIS TO ACCOMODATE ROADWAY EMBANKMENT NEEDS AND TO ACHIEVE HYDRAULIC NEUTRALITY FOR THE PROJECT. THESE LOCATIONS HAVE BEEN COORDINATED WITH THE CITY OF DALLAS FOR COMPATABILITY WITH FUTURE FLOODWAY PROJECTS.
16. THE EXACT LOCATION AND LIMITS OF DIAPHRAGM WALL WILL BE DETERMINED WITH FUTURE GEOTECH INVESTIGATION DURING PS&E DESIGN.
17. DRIVEWAY LOCATIONS ARE PRELIMINARY AND WILL BE FURTHER DEVELOPED DURING PS&E DESIGN. ALL DRIVEWAYS UTILIZE 15' CURB RADIUS (UNLESS NOTED OTHERWISE).
18. CROSS STREETS UTILIZE 50' RADIUS (UNLESS NOTED OTHERWISE).
19. ALL NEW OPERATION AND MAINTENANCE ROADS WITHIN THE FLOODWAY SHALL BE 8" CONCRETE PAVEMENT.
20. THE 5' PLANTAR BOX BETWEEN THE SB TRINITY PARKWAY MAIN LANES AND THE FLOOD SEPARATION WALL SHALL ACCOMODATE COLUMNS FOR FUTURE DECK PROJECTS OVER THE MAIN LANES.
21. THE PROPOSED ROW AND EASEMENTS ARE CONSISTENT WITH THOSE EVALUATED IN THE FINAL ENVIRONMENTAL IMPACT STATEMENT.

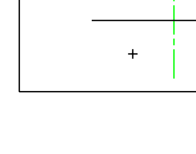
CURVE DATA

CURVE ID	DESIGN SPEED	CURVE	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	TANGENT	LENGTH	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
400	60	PNBTP-8	1195+89.32	N 6,971,579.7759	E 2,485,456.1472	2° 57' 56.76" (LT)	11,459.16	296.64	593.15	593.09	1192+92.67	1198+85.83	S 30° 12' 12.60" E	S 33° 10' 09.36" E
401	60	PNBTP-9	1206+66.46	N 6,970,678.0304	E 2,486,045.5423	18° 40' 47.99" (RT)	2,557.48	420.64	833.81	830.12	1202+45.83	1210+79.63	S 33° 10' 09.36" E	S 14° 29' 21.37" E
402	60	PNBTP-10	1237+12.51	N 6,967,721.6385	E 2,486,809.5266	46° 01' 00.40" (LT)	1,867.86	793.18	1,500.16	1,460.17	1229+19.33	1244+19.49	S 14° 29' 21.37" E	S 60° 30' 21.77" E
403	60	PNBTP-11	1264+95.77	N 6,966,308.9094	E 2,489,307.1321	14° 50' 40.61" (RT)	9,000.00	1,172.46	2,331.79	2,325.27	1253+23.31	1276+55.10	S 60° 30' 21.77" E	S 45° 39' 41.16" E
404	20	PPAJEF-1	11+61.92	N 6,967,223.1127	E 2,487,409.2725	4° 35' 20.91" (LT)	4,041.00	161.92	323.67	323.58	10+00.00	13+23.67	S 50° 13' 16.99" E	S 54° 48' 37.89" E
405	20	PPAJEF-2	13+89.83	N 6,967,091.6719	E 2,487,595.6745	9° 35' 13.40" (RT)	789.00	66.16	132.02	131.87	13+23.67	14+55.69	S 54° 48' 37.89" E	S 45° 13' 24.49" E
406	20	PPAJEF-3	15+39.05	N 6,966,986.3552	E 2,487,701.8159	12° 28' 12.12" (LT)	763.00	83.36	166.06	165.73	14+55.69	16+21.75	S 45° 13' 24.49" E	S 57° 41' 36.61" E
407	20	PPAJEF-4	18+13.61	N 6,966,839.2616	E 2,487,934.4365	4° 45' 42.44" (RT)	1,011.00	42.04	84.02	84.00	17+71.58	18+55.60	S 57° 41' 36.61" E	S 62° 27' 19.05" E
408	20	PPAJEF-5	21+44.84	N 6,966,686.0678	E 2,488,228.1593	4° 45' 42.44" (LT)	1,011.00	42.04	84.02	84.00	21+02.80	21+86.82	S 62° 27' 19.05" E	S 57° 41' 36.61" E
409	40	PRNEJEF-1	11+03.45	N 6,967,464.8784	E 2,487,388.1668	12° 10' 31.66" (LT)	970.00	103.45	206.13	205.74	10+00.00	12+06.13	S 52° 04' 36.12" E	S 64° 15' 07.77" E
410	40	PRNEJEF-2	19+68.03	N 6,967,088.9569	E 2,488,167.6078	6° 40' 29.25" (RT)	5,230.00	304.98	609.28	608.94	16+63.05	22+72.33	S 64° 15' 07.77" E	S 57° 34' 38.53" E
411	40	PRNXJEF-1	13+93.98	N 6,966,649.9681	E 2,488,811.1212	7° 42' 20.48" (RT)	5,850.00	393.98	786.76	786.17	10+00.00	17+86.76	S 57° 34' 38.53" E	S 49° 52' 18.04" E
412	40	PRSEJEF-1	14+60.03	N 6,966,374.0496	E 2,488,807.6695	3° 52' 56.22" (LT)	5,230.00	177.26	354.38	354.31	12+82.78	16+37.15	S 57° 41' 36.61" E	S 61° 34' 32.82" E
413	40	PRSEJEF-2	20+08.06	N 6,966,113.1248	E 2,489,289.7526	10° 34' 09.11" (RT)	4,010.00	370.91	739.71	738.67	16+37.15	23+76.87	S 61° 34' 32.82" E	S 51° 00' 23.72" E
414	40	PRSXJEF-1	14+32.25	N 6,967,196.6294	E 2,487,484.3504	8° 11' 50.94" (LT)	4,010.00	287.35	573.72	573.23	11+44.89	17+18.62	S 49° 29' 45.67" E	S 57° 41' 36.61" E
415	60	PSBTP-8	1206+12.43	N 6,970,657.0039	E 2,486,033.0031	19° 18' 40.53" (RT)	2,535.48	431.38	854.57	850.53	1202+41.05	1210+95.62	S 33° 10' 09.36" E	S 13° 51' 28.83" E
416	60	PSBTP-9	1237+09.91	N 6,967,699.9905	E 2,486,762.4904	46° 38' 52.94" (LT)	1,909.86	823.46	1,554.93	1,512.34	1228+86.45	1244+41.38	S 13° 51' 28.83" E	S 60° 30' 21.77" E
417	60	PSBTP-10	1265+90.26	N 6,966,236.6124	E 2,489,349.6396	14° 50' 40.61" (RT)	11,000.00	1,433.01	2,849.96	2,842.00	1251+57.25	1280+07.22	S 60° 30' 21.77" E	S 45° 39' 41.16" E

SUPERELEVATION DATA

CHAIN	BEGIN TRANSITION		END TRANSITION	
	STA	e	STA	e
PNBTP	1198+61.20	2.50%	1204+43.20	-4.74%
PNBTP	1208+89.01	-4.74%	1214+71.01	2.50%
PNBTP	1227+60.70	2.50%	1230+03.70	5.53%
PNBTP	1242+94.87	5.53%	1246+78.87	2.50%
PSBTP	1201+19.05	-2.50%	1203+02.05	-4.76%
PSBTP	1210+34.62	-4.76%	1212+17.62	-2.50%
PSBTP	1224+58.45	-2.50%	1231+00.45	5.49%
PSBTP	1241+09.38	5.49%	1251+05.38	-2.50%
PSBTP	1292+22.33	-2.50%	1300+26.33	5.02%
PRNEJEF	12+67.00	4.52%	13+87.00	2.00%
PRNEJEF	22+40.00	2.00%	23+60.00	-1.46%
PRSXJEF	14+29.00	2.42%	15+49.00	-2.00%
PRSXJEF	23+58.00	-2.00%	24+78.00	1.50%
PRNXJEF	10+64.00	-1.46%	11+84.00	2.00%
PRNXJEF	17+36.00	2.00%	17+86.00	2.50%
PRSEJEF	10+64.00	1.50%	11+84.00	-2.00%
PRSEJEF	17+74.00	-2.00%	18+24.00	-2.50%

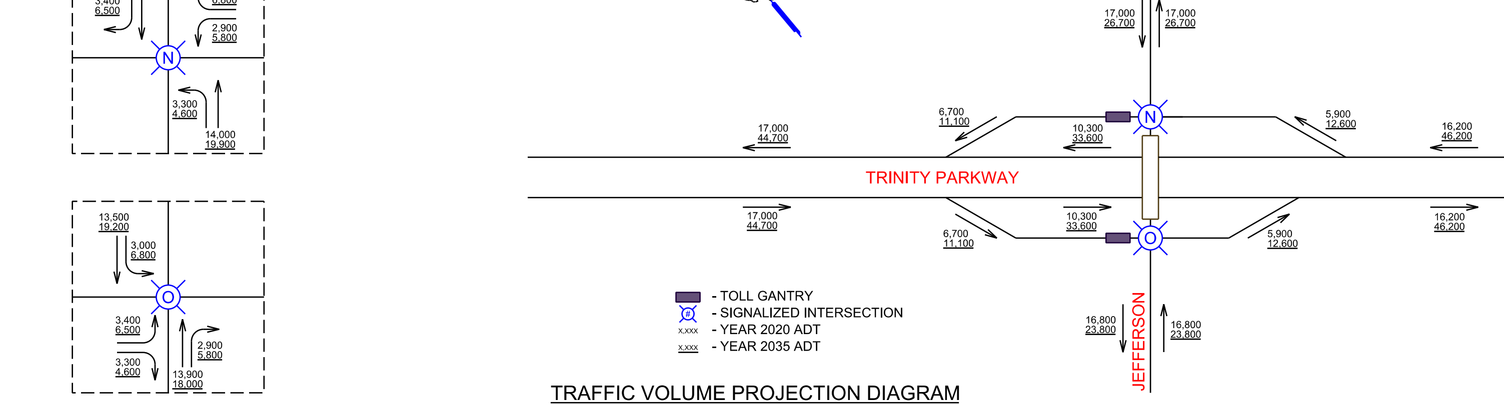
SUPERELEVATION COORDINATE SYSTEM



PARCEL DATA

PARCEL ID	OWNER	PROPERTY ADDRESS	OCCUPANT
68	DALLAS CITY OF	1001 CONTINENTAL ST VIADUCT	COMMERCIAL
69	PCB-ARC INC	505 N RIVERFRONT BLVD	COMMERCIAL
70	UNION PACIFIC RR CO	9999 NO NAME ST	COMMERCIAL
71	DALLAS CITY OF	121 W COMMERCE ST	COMMERCIAL
72	DALLAS COUNTY LID	119 W COMMERCE ST	COMMERCIAL
73	DALLAS CITY OF	251 ROCK ISLAND ST	COMMERCIAL
74	CITY & COUNTY LEVEE	251 ROCK ISLAND ST	COMMERCIAL
75	TEXAS STATE OF	100 IH 30	COMMERCIAL
76	CITY & COUNTY LEVEE	251 ROCK ISLAND ST	COMMERCIAL
77	DALLAS CITY & COUNTY	99 IH 30	COMMERCIAL
78	DALLAS CITY OF	831 HOUSTON ST VIADUCT ST	COMMERCIAL
79	DALLAS CITY OF	830 HOUSTON ST VIADUCT ST	COMMERCIAL
80	DALLAS CITY OF	833 HOUSTON ST VIADUCT ST	COMMERCIAL
81	DALLAS CITY OF	820 HOUSTON ST VIADUCT ST	COMMERCIAL
82	DALLAS CITY OF	121 CADIZ ST	COMMERCIAL
83	DALLAS CITY OF	1900 N LANCASTER AVE	COMMERCIAL
84	DALLAS CITY OF	1500 S RIVERFRONT BLVD	COMMERCIAL
85	DALLAS CITY OF	123 CADIZ ST	COMMERCIAL
86	CITY & COUNTY LEVEE	101 CADIZ ST	COMMERCIAL
87	DALLAS CITY OF	800 BRAZOS ST	COMMERCIAL
88	DALLAS CITY OF	800 BRAZOS ST	COMMERCIAL
89	WHITLOCK PPTIES LLC	407 CORINTH ST	COMMERCIAL
90	BISHOP-CORWIN PPTIES LLC	2006 S RIVERFRONT BLVD	COMMERCIAL
91	WHITLOCK PPTIES LLC	403 CORINTH ST	COMMERCIAL
92	WHITLOCK PPTIES LLC	215 CORINTH ST	COMMERCIAL
93	WHITLOCK PPTIES LLC	401 CORINTH ST	COMMERCIAL
94	NEBULAR 2000 INC	418 CORINTH ST	COMMERCIAL
95	WOMACK ALFREDIA R	1919 S RIVERFRONT BLVD	COMMERCIAL
96	WHITLOCK PPTIES LLC	201 CORINTH ST	COMMERCIAL
97	HML HOLDINGS LLC	1921 S RIVERFRONT BLVD	COMMERCIAL
98	HML HOLDINGS LLC	1923 S RIVERFRONT BLVD	COMMERCIAL
99	HML HOLDINGS LLC	1915 S RIVERFRONT BLVD	COMMERCIAL
100	HML HOLDINGS LLC	2001 S RIVERFRONT BLVD	COMMERCIAL
101	YONACK IRVIN S	2003 S RIVERFRONT BLVD	COMMERCIAL
102	HML HOLDINGS LLC	2011 S RIVERFRONT BLVD	COMMERCIAL
103	HML HOLDINGS LLC	2011 S RIVERFRONT BLVD	COMMERCIAL
104	RBB INDUSTRIAL LLC	2017 S RIVERFRONT BLVD	COMMERCIAL
105	CITY & COUNTY LEVEE	101 CADIZ ST	COMMERCIAL
106	RAMIREZ RAUL & ROSALINDA	200 CORINTH ST	COMMERCIAL
107	RAMIREZ RAUL & ROSALINDA	2202 S RIVERFRONT BLVD	COMMERCIAL
108	NGUYEN RANDY DAC &	2101 S RIVERFRONT BLVD	COMMERCIAL
109	RAMIREZ RAUL & ROSALINDA	2206 S RIVERFRONT BLVD	COMMERCIAL
110	RAMIREZ RAUL & ROSALINDA	2210 S RIVERFRONT BLVD	COMMERCIAL
111	RAMIREZ RAUL & ROSALINDA	2214 S RIVERFRONT BLVD	COMMERCIAL
112	RAMIREZ RAUL & ROSALINDA	2218 S RIVERFRONT BLVD	COMMERCIAL
113	RAMIREZ RAUL & ROSALINDA	2222 S RIVERFRONT BLVD	COMMERCIAL
114	BARTHOLOW RENTAL CO	2205 S RIVERFRONT BLVD	COMMERCIAL
115	CCH LAMAR PARTNERS I LP	2224 S RIVERFRONT BLVD	COMMERCIAL
116	BARTHOLOW RENTAL COMPANY	2205 S RIVERFRONT BLVD	COMMERCIAL
117	ATLAS IRON & METAL	2209 S RIVERFRONT BLVD	COMMERCIAL
118	EISENBERG JOE ETAL	2215 S RIVERFRONT BLVD	COMMERCIAL
119	ATLAS IRON & METAL	2221 S RIVERFRONT BLVD	COMMERCIAL
120	ATLAS IRON & METAL	2225 S RIVERFRONT BLVD	COMMERCIAL
121	UNION PACIFIC RR CO	9999 NO NAME ST	COMMERCIAL
122	DALLAS COUNTY FLOOD	102 CORINTH ST	COMMERCIAL
123	TEXAS UTILITIES ELEC CO	2200 S RIVERFRONT BLVD	COMMERCIAL
124	DALLAS CITY OF	100 N CORINTH ST RD	COMMERCIAL

TRAFFIC VOLUME PROJECTION DIAGRAM
N.T.S.



TYPICAL SECTIONS
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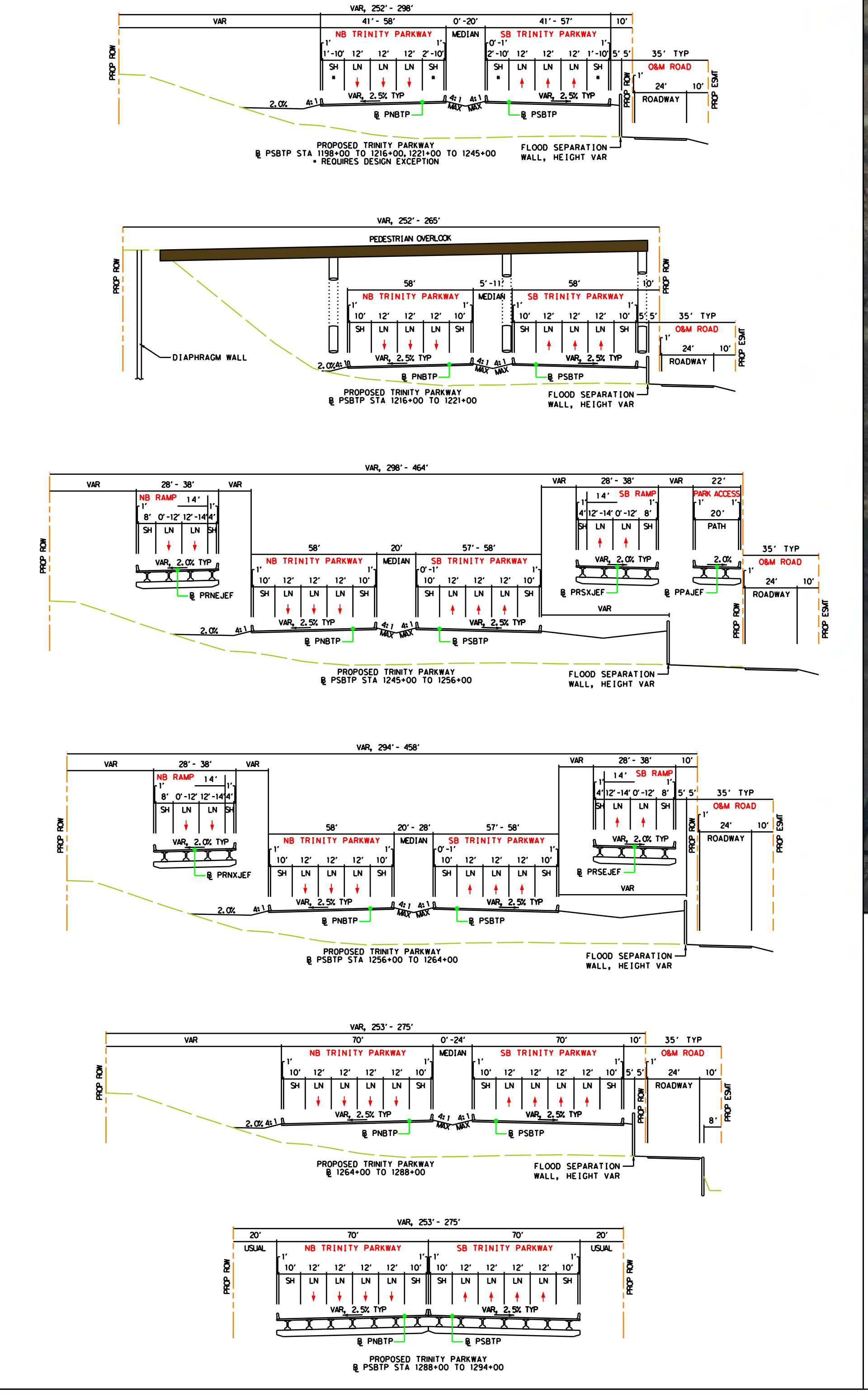
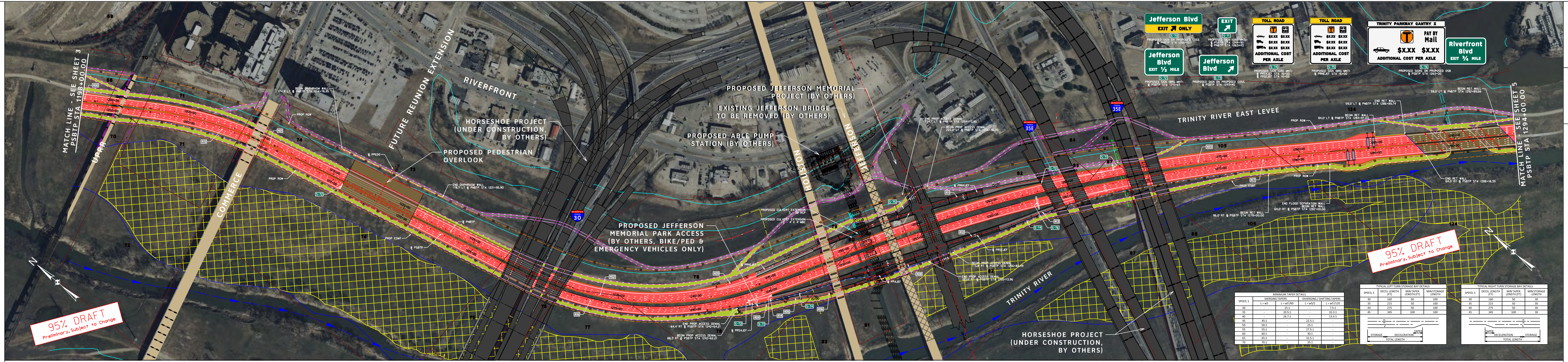




MINIMUM TAPER DETAILS

SPEED, S	MERGING TAPERS L = wS	MERGING TAPERS L = wS²/60	DIVERGING / SHIFTING TAPERS L = wS/2	DIVERGING / SHIFTING TAPERS L = wS²/120
30	-	15:1	-	7.5:1
35	-	20.5:1	-	10.3:1
40	-	26.7:1	-	13.4:1
45	45:1	-	22.5:1	-
50	50:1	-	25:1	-
55	55:1	-	27.5:1	-
60	60:1	-	30:1	-
65	65:1	-	32.5:1	-
70	70:1	-	35:1	-

TYPICAL LEFT TURN STORAGE BAY DETAILS

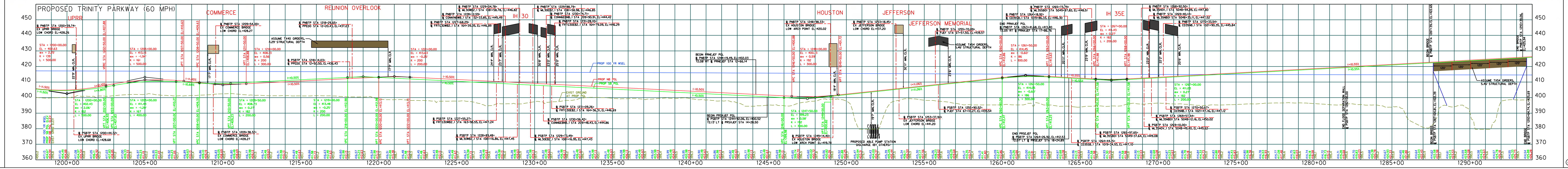
SPEED, S	DECEL LENGTH (FT)	MIN TAPER LENGTH (FT)	MIN STORAGE LENGTH
30	160	50	100
35	215	50	100
40	275	50	100
45	345	100	100

STORAGE / DECELERATION / TAPER / TOTAL LENGTH

TYPICAL RIGHT TURN STORAGE BAY DETAILS

SPEED, S	DECEL LENGTH (FT)	MIN TAPER LENGTH (FT)	MIN STORAGE LENGTH
30	160	50	30
35	215	50	30
40	275	50	30
45	345	100	30

TAPER / DECELERATION / STORAGE / TOTAL LENGTH



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TO US 175 / SH 310
DALLAS COUNTY, TEXAS
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FEBRUARY 2014
ROLL 4 OF 11
LOCATION MAP N.T.S.
TEXAS COUNTY MAP N.T.S.
PRELIMINARY FOR INTERIM REVIEW ONLY
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