ROLL 2B OF 5 STA. 133+00 TO STA. 260+00

TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER
SH 183 REEVALUATION DESIGN SCHEMATIC

SH 183 FROM WEST OF SH 161 TO IH 35E
DALLAS COUNTY

CSJ: 0094–03–065 FROM 1.2 MILES EAST OF SH 360 TO 0.66 MILE WEST OF LOOP 12, PROJECT LENGTH 6.69 MILES

CSJ: 0094–07–015 FROM 1.0 MILES EAST OF LOOP 12 TO WEST END OF ELM FORK TRINITY BRIDGE, PROJECT LENGTH 0.3 MILE

CSJ: 0094–07–020 FROM WEST END OF ELM FORK TRINITY BRIDGE TO IH 35E, PROJECT LENGTH 1.1 MILES

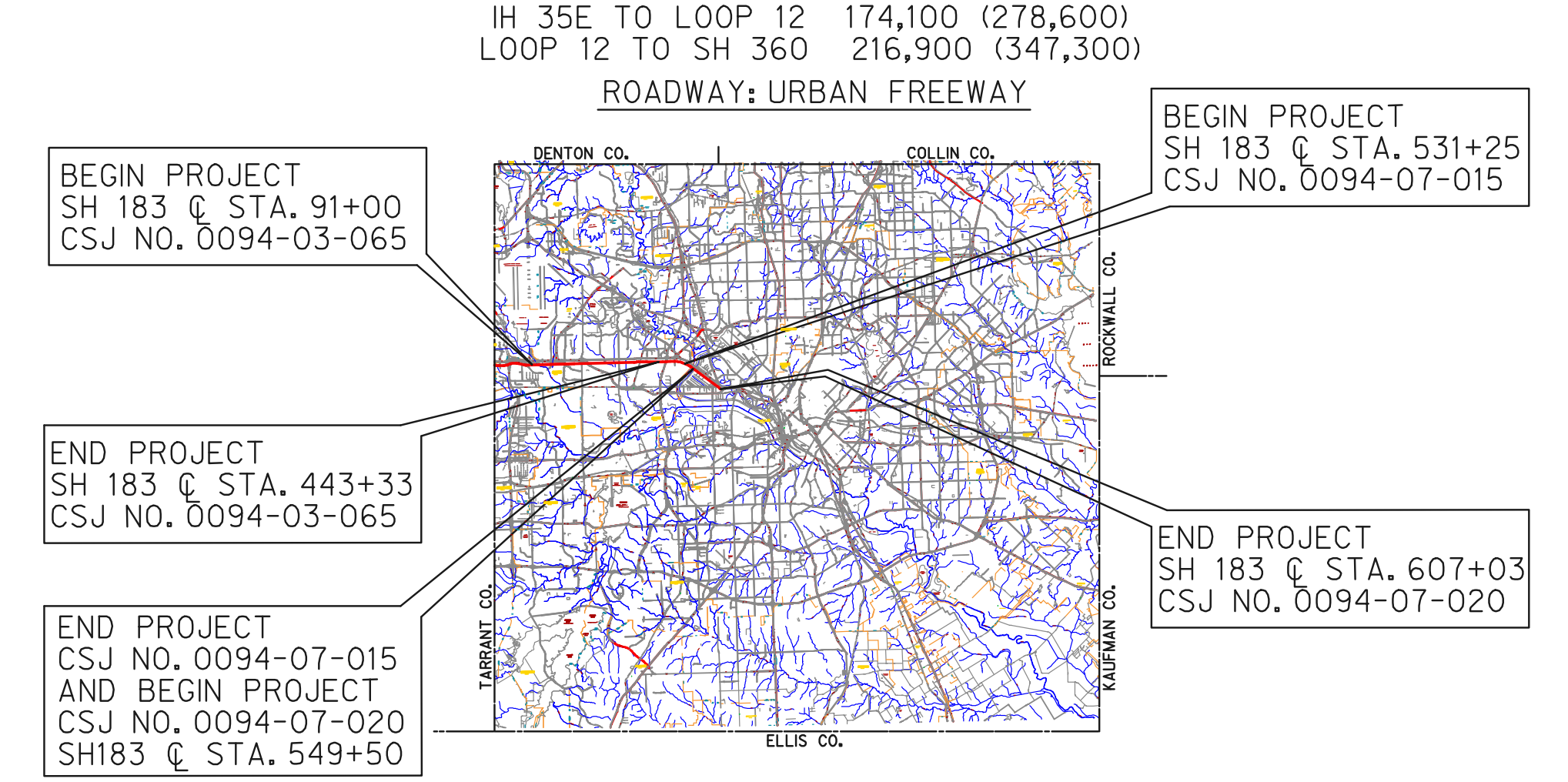
DESIGN SPEED

FREEWAY = 70 mph
RAMPS = 50 mph
RAMP ERW168 = 40 MPH
DIRECT CONNECTORS = 50 mph
SH 161 DIRECT CONNECTORS (DCW139, DCW146, DCE149, DCE177, DCN733) = 35 MPH
FRONTAGE ROADS = 40 mph
CROSS STREETS = 40 mph
MANAGED LANES - HOV = 70 mph

AVERAGE DAILY TRAFFIC 2000 (2029)

IH 35E TO LOOP 12 174,100 (278,600)
LOOP 12 TO SH 360 216,900 (347,300)

ROADWAY: URBAN FREEWAY


DENTON CO.
COLLIN CO.
ROCKWALL CO.
TARRANT CO.
KAUFMAN CO.
ELLIS CO.

BEGIN PROJECT
SH 183 ℄ STA. 91+00
CSJ NO. 0094-03-065

BEGIN PROJECT
SH 183 ℄ STA. 531+25
CSJ NO. 0094-07-015

END PROJECT
SH 183 ℄ STA. 443+33
CSJ NO. 0094-03-065

END PROJECT
SH 183 ℄ STA. 607+03
CSJ NO. 0094-07-020

END PROJECT
CSJ NO. 0094-07-015
AND BEGIN PROJECT
CSJ NO. 0094-07-020
SH183 ℄ STA. 549+50

DRAFT SUBMITTAL
NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

DATE APPROVED

DATE SUBMITTED
AUGUST 15, 2006

DATE REVISED
MARCH 13, 2012

HALFF ASSOCIATES, INC.
TBPE FIRM #F-312
These documents are not intended for Construction, Bidding, or Permit Purposes. They were prepared by, or under the supervision of:

Matthew G. Craig	69910	03-13-12
Type or Print Name	PE#	Date

50 0 100 200 300 HORIZONTAL
5 0 10 20 30 VERTICAL
SCALE IN FEET

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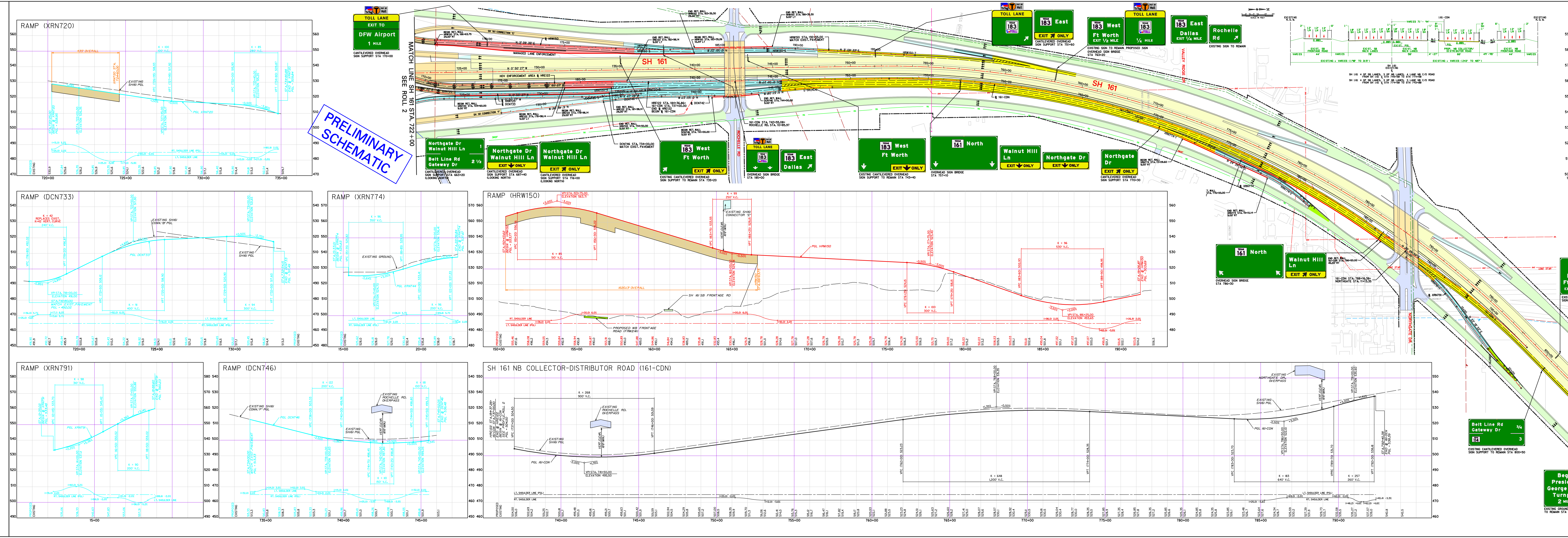
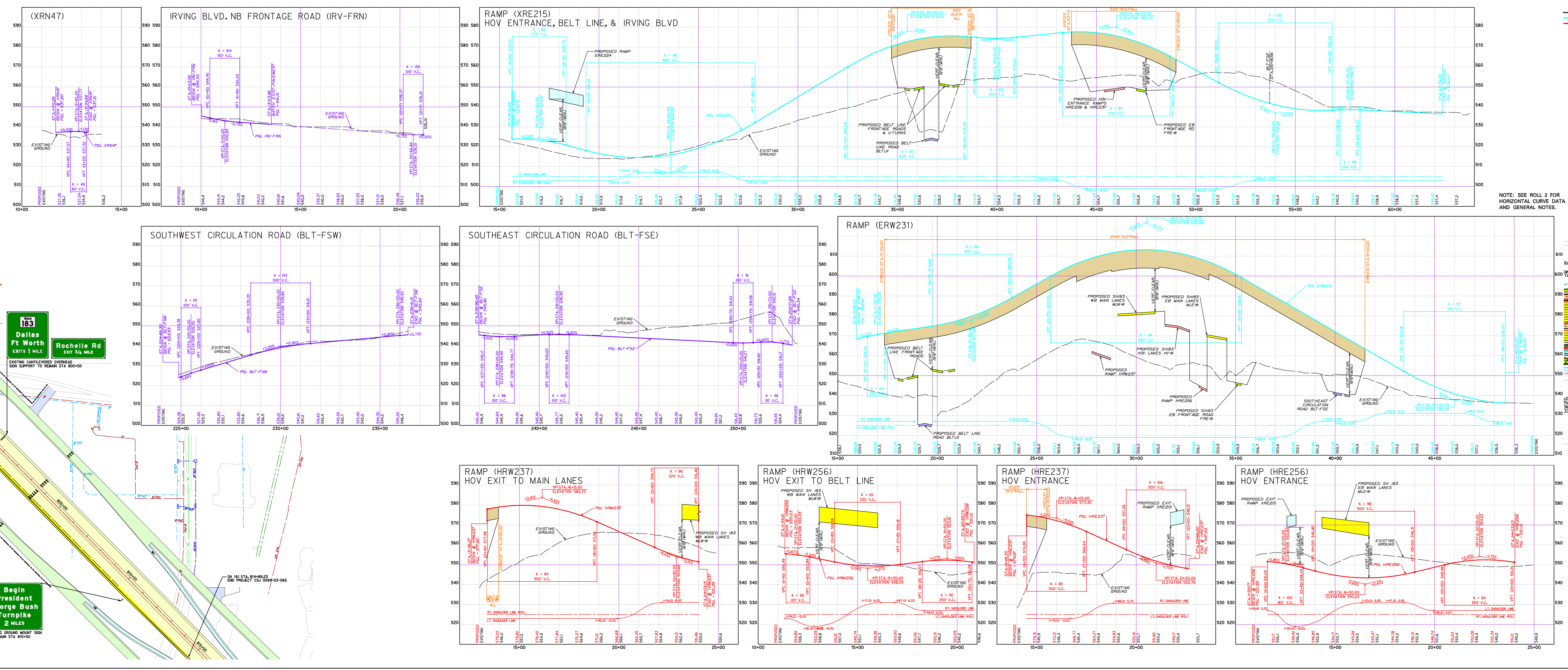
ROLL 2B OF 5


RAMP (XRN720)
RAMP (DCN733)
RAMP (XRN774)
RAMP (HRW150)
RAMP (XRN791)
RAMP (DCN746)
SH 161 NB COLLECTOR-DISTRIBUTOR ROAD (161-CDN)
EXISTING SH161 PGL
PGL XRN720
PGL DCN733
PGL XRN774
PGL HRW150
PGL XRN791
PGL DCN746
PGL 161-CDN
EXISTING GROUND
SH 161 SB FRONTAGE RD
PROPOSED WB FRONTAGE ROAD (FRW-W)
EXISTING ROCHELLE RD. OVERPASS
EXISTING NORTHGATE-DR. OVERPASS
RT. SHOULDER LINE (PGL)
LT. SHOULDER LINE (PGL)
PROPOSED
EXISTING
MATCH LINE SH 161 STA. 722+00 SEE ROLL 2
SH 161
SH 183
ROCHELLE RD
VALLEY RIDGE BLVD
NORTHGATE DR
TOLL LANE EXIT TO DFW Airport 1 MILE
CANTILEVERED OVERHEAD SIGN SUPPORT STA 170+00
Northgate Dr Walnut Hill Ln 1
Belt Line Rd Gateway Dr 2 ½
CANTILEVERED OVERHEAD SIGN SUPPORT STA 663+20 (LOOKING NORTH)
Northgate Dr Walnut Hill Ln EXIT ONLY
CANTILEVERED OVERHEAD SIGN SUPPORT STA 687+40 (LOOKING NORTH)
Northgate Dr Walnut Hill Ln EXIT ONLY
CANTILEVERED OVERHEAD SIGN SUPPORT STA 716+00 (LOOKING NORTH)
183 West Ft Worth EXIT ONLY
EXISTING CANTILEVERED OVERHEAD SIGN SUPPORT TO REMAIN STA 735+20
TOLL LANE 183 TOLL
183 East Dallas
OVERHEAD SIGN BRIDGE STA 185+00
183 West Ft Worth EXIT ONLY
EXISTING CANTILEVERED OVERHEAD SIGN SUPPORT TO REMAIN STA 743+40
161 North
OVERHEAD SIGN BRIDGE STA 757+10
Walnut Hill Ln EXIT ONLY
Northgate Dr EXIT ONLY
TOLL LANE 183 TOLL
183 East EXIT ONLY
CANTILEVERED OVERHEAD SIGN SUPPORT STA 751+60
183 West Ft Worth EXIT 1/2 MILE
EXISTING SIGN TO REMAIN PROPOSED SIGN OVERHEAD SIGN BRIDGE STA 763+20
TOLL LANE 183 TOLL 1/4 MILE
183 East Dallas EXIT 1/4 MILE
Rochelle Rd
EXISTING SIGN TO REMAIN
Northgate Dr EXIT ONLY
CANTILEVERED OVERHEAD SIGN SUPPORT STA 770+30
161 North
OVERHEAD SIGN BRIDGE STA 786+30
Walnut Hill Ln EXIT ONLY
183 Dallas Ft Worth EXITS 1 MILE
Rochelle Rd EXIT 3/4 MILE
EXISTING CANTILEVERED OVERHEAD SIGN SUPPORT TO REMAIN STA 800+50
Belt Line Rd Gateway Dr 3/4 3
EXISTING CANTILEVERED OVERHEAD SIGN SUPPORT TO REMAIN STA 800+50
Begin President George Bush Turnpike 2 MILES
EXISTING GROUND MOUNT SIGN TO REMAIN STA 810+50
SH 161 STA. 814+89.23 END PROJECT CSJ 0094-03-065
SH 161 4 OF SB LANES, 3 OF NB LANES, 4 LANE NB C/D ROAD FROM SH 161 ℄ STA 749+58 TO STA 774+58
SH 161 4 OF SB LANES, 3 OF NB LANES, 4 LANE NB C/D ROAD FROM SH 161 ℄ STA 774+58 TO STA 775+58
EXIST. SB FRONTAGE ROAD
EXIST. SB MAIN LANES
EXIST. NB MAIN LANES
PROP. NB COLLECTOR/DISTRIBUTOR ROAD
EXIST. NB FRONTAGE ROAD
EXISTING R.O.W.
EXISTING = VARIES (190' TO 325')
EXISTING = VARIES (243' TO 487')

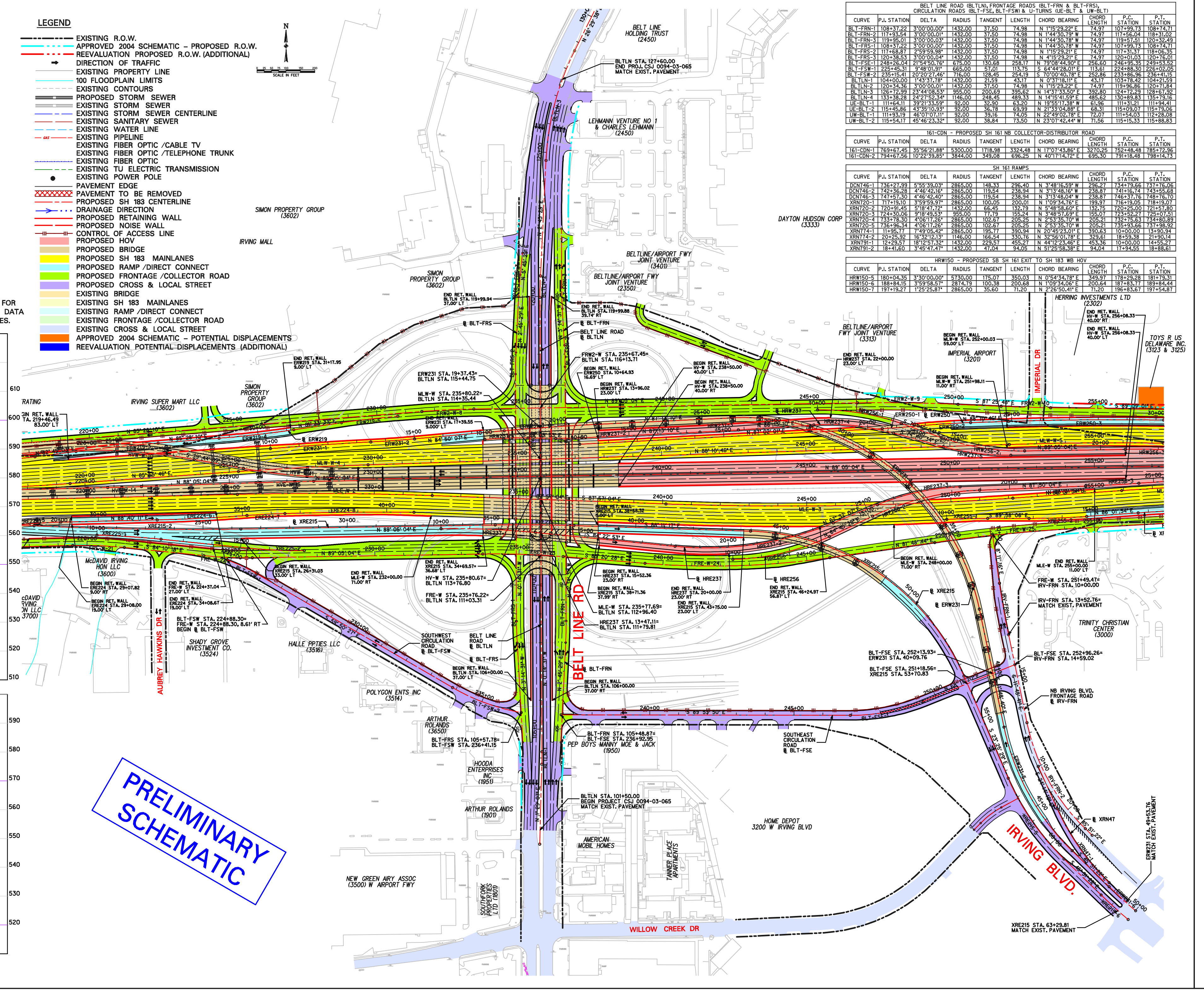
PRELIMINARY SCHEMATIC


(XRN47)
PGL XRN47
IRVING BLVD. NB FRONTAGE ROAD (IRV-FRN)
PGL IRV-FRN
RAMP (XRE215)
HOV ENTRANCE, BELT LINE, & IRVING BLVD
PGL XRE215
PROPOSED RAMP ERE224
PROPOSED BELT LINE FRONTAGE ROADS & U-TURNS
PROPOSED BELT LINE ROAD BLTLN
PROPOSED HOV ENTRANCE RAMPS HRE256 & HRE237
PROPOSED EB FRONTAGE RD FRE-W
SOUTHWEST CIRCULATION ROAD (BLT-FSW)
PGL BLT-FSW
SOUTHEAST CIRCULATION ROAD (BLT-FSE)
PGL BLT-FSE
RAMP (ERW231)
PGL ERW231
PROPOSED SH183 WB MAIN LANES MLW-W
PROPOSED SH183 EB MAIN LANES MLE-W
PROPOSED SH183 HOV LANES HV-W
PROPOSED RAMP HRW237
PROPOSED RAMP HRE256
PROPOSED SH183 EB FRONTAGE ROAD FRE-W
SOUTHEAST CIRCULATION ROAD BLT-FSE
RAMP (HRW237)
HOV EXIT TO MAIN LANES
PGL HRW237
PROPOSED SH 183 WB MAIN LANES MLW-W
RAMP (HRW256)
HOV EXIT TO BELT LINE
PGL HRW256
RAMP (HRE237)
HOV ENTRANCE
PGL HRE237
PROPOSED EXIT RAMP XRE215
RAMP (HRE256)
HOV ENTRANCE
PGL HRE256
PROPOSED SH 183 EB MAIN LANES MLE-W
EXISTING GROUND
RT. SHOULDER LINE (PGL)
LT. SHOULDER LINE (PGL)
PROPOSED
EXISTING

NOTE: SEE ROLL 2 FOR HORIZONTAL CURVE DATA AND GENERAL NOTES.

LEGEND

- ▬ ▬ ▬ EXISTING R.O.W.
- ▬ ▬ ▬ APPROVED 2004 SCHEMATIC – PROPOSED R.O.W.
- ▬ ▬ ▬ REEVALUATION PROPOSED R.O.W. (ADDITIONAL)
- ➡ DIRECTION OF TRAFFIC
- EXISTING PROPERTY LINE
- 100 FLOODPLAIN LIMITS
- EXISTING CONTOURS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING STORM SEWER CENTERLINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- — GAS — EXISTING PIPELINE
- EXISTING FIBER OPTIC /CABLE TV
- EXISTING FIBER OPTIC /TELEPHONE TRUNK
- EXISTING FIBER OPTIC
- EXISTING TU ELECTRIC TRANSMISSION
- ● EXISTING POWER POLE
- PAVEMENT EDGE
- ☒ PAVEMENT TO BE REMOVED
- PROPOSED SH 183 CENTERLINE
- DRAINAGE DIRECTION
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CONTROL OF ACCESS LINE
- 🟥 PROPOSED HOV
- PROPOSED BRIDGE
- 🟨 PROPOSED SH 183 MAINLANES
- PROPOSED RAMP /DIRECT CONNECT
- 🟩 PROPOSED FRONTAGE /COLLECTOR ROAD
- 🟪 PROPOSED CROSS & LOCAL STREET
- EXISTING BRIDGE
- EXISTING SH 183 MAINLANES
- EXISTING RAMP /DIRECT CONNECT
- EXISTING FRONTAGE /COLLECTOR ROAD
- EXISTING CROSS & LOCAL STREET
- 🟧 APPROVED 2004 SCHEMATIC – POTENTIAL DISPLACEMENTS
- 🟦 REEVALUATION POTENTIAL DISPLACEMENTS (ADDITIONAL)


N
0 25 50 75 100 150 200 SCALE IN FEET
BELT LINE RD
IRVING BLVD.
WILLOW CREEK DR
AUBREY HAWKINS DR
IMPERIAL DR
BELT LINE HOLDING TRUST
BLTLN STA. 127+60.00 END PROJ. CSJ 0094-03-065 MATCH EXIST. PAVEMENT
LEHMANN VENTURE NO. 1 & CHARLES LEHMANN (2450)
SIMON PROPERTY GROUP (3602)
IRVING MALL
DAYTON HUDSON CORP (3333)
BELTLINE/AIRPORT FWY JOINT VENTURE (3401)
BELTLINE/AIRPORT FWY JOINT VENTURE (2350)
HERRING INVESTMENTS LTD (2302)
TOYS R US DELAWARE INC. (3123 & 3125)
IRVING SUPER MART LLC (3602)
IMPERIAL AIRPORT (3201)
McDAVID IRVING HON LLC (3600)
SHADY GROVE INVESTMENT CO. (3524)
HALLE PPTIES LLC (3516)
POLYGON ENTS INC (3514)
ARTHUR ROLANDS (3650)
HOODA ENTERPRISES INC (1951)
ARTHUR ROLANDS (1901)
PEP BOYS MANNY MOE & JACK (1950)
AMERICAN MOBIL HOMES
TIMBER PLACE APARTMENTS
SOUTHWORK PROPERTIES LTD (1901)
NEW GREEN ARY ASSOC (3500 W AIRPORT FWY)
HOME DEPOT 3200 W IRVING BLVD
TRINITY CHRISTIAN CENTER (3000)
SOUTHEAST CIRCULATION ROAD ℄ BLT-FSE
SOUTHWEST CIRCULATION ROAD ℄ BLT-FSW
BLTLN STA. 101+50.00 BEGIN PROJECT CSJ 0094-03-065 MATCH EXIST. PAVEMENT
XRE215 STA. 63+29.81 MATCH EXIST. PAVEMENT
NB IRVING BLVD. FRONTAGE ROAD ℄ IRV-FRN

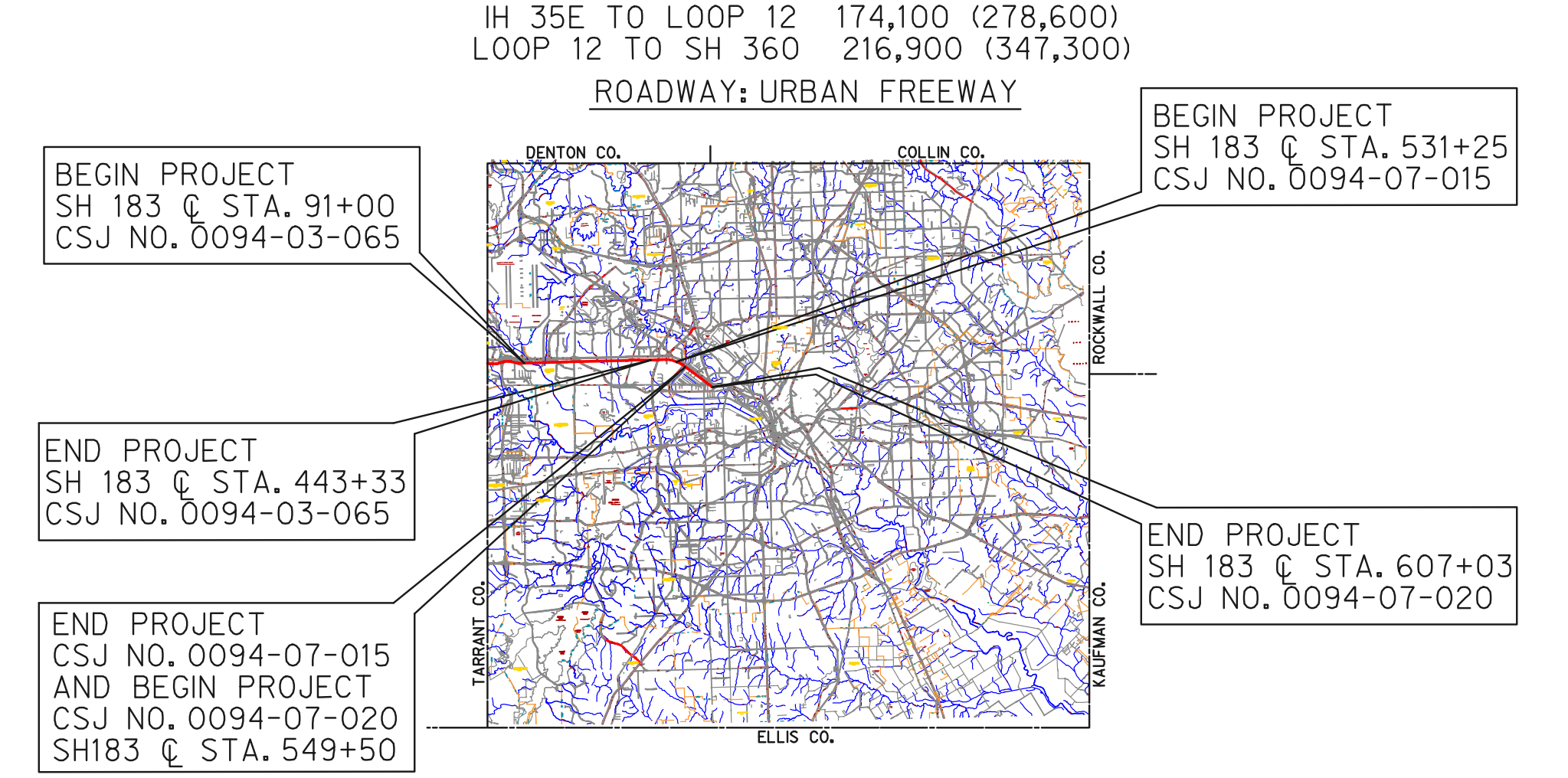
BELT LINE ROAD (BLTLN), FRONTAGE ROADS (BLT-FRN & BLT-FRS), CIRCULATION ROADS (BLT-FSE, BLT-FSW) & U-TURNS (UE-BLT & UW-BLT)									
CURVE	P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION
BLT-FRN-1	108+37.22	3°00'00.00"	1432.00	37.50	74.98	N 1°15'29.22" E	74.97	107+99.73	108+74.71
BLT-FRN-2	117+93.54	3°00'00.01"	1432.00	37.50	74.98	N 1°44'30.79" W	74.97	117+56.04	118+31.02
BLT-FRN-3	119+95.01	3°00'00.03"	1432.00	37.50	74.98	N 1°44'30.78" W	74.97	119+57.51	120+32.49
BLT-FRS-1	108+37.22	3°00'00.00"	1432.00	37.50	74.98	N 1°44'30.78" W	74.97	107+99.73	108+74.71
BLT-FRS-2	117+68.87	2°59'59.98"	1432.00	37.50	74.98	N 1°15'29.21" E	74.97	117+31.37	118+06.35
BLT-FRS-3	120+38.53	3°00'00.04"	1432.00	37.50	74.98	N 4°15'29.21" E	74.97	120+01.03	120+76.01
BLT-FSE-1	248+26.04	21°54'50.76"	675.00	130.68	258.17	N 79°08'44.90" E	256.60	246+95.35	249+53.52
BLT-FSW-1	225+45.31	9°48'01.91"	665.00	57.01	113.75	S 64°44'28.01" E	113.61	224+88.30	226+02.05
BLT-FSW-2	235+15.41	20°20'27.46"	716.00	128.45	254.19	S 70°00'40.78" E	252.86	233+86.96	236+41.15
BLTLN-1	104+00.00	1°43'37.78"	1432.00	21.59	43.17	N 0°37'18.11" E	43.17	103+78.42	104+21.59
BLTLN-2	120+34.36	3°00'00.01"	1432.00	37.50	74.98	N 1°15'29.22" E	74.97	119+96.86	120+71.84
BLTLN-3	126+72.99	23°44'08.53"	955.00	200.69	395.62	N 14°37'33.50" E	392.80	124+72.29	128+67.92
BLTLN-4	133+38.28	24°27'52.34"	1146.00	248.45	489.33	N 14°15'41.59" E	485.62	130+89.83	135+79.16
UE-BLT-1	111+64.11	39°21'33.59"	92.00	32.90	63.20	N 19°55'17.38" W	61.96	111+31.21	111+94.41
UE-BLT-2	115+45.86	43°35'10.93"	92.00	36.78	69.99	N 21°33'04.88" E	68.31	115+09.07	115+79.06
UW-BLT-1	111+93.19	46°07'07.11"	92.00	39.16	74.05	N 22°49'02.78" E	72.07	111+54.03	112+28.08
UW-BLT-2	115+54.17	45°46'23.32"	92.00	38.84	73.50	N 23°07'42.44" W	71.56	115+15.33	115+88.83

161-CDN - PROPOSED SH 161 NB COLLECTOR-DISTRIBUTOR ROAD									
CURVE	P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION
161-CDN-1	769+67.45	35°56'21.88"	5300.00	1718.98	3324.48	N 17°07'43.86" E	3270.25	752+48.48	785+72.96
161-CDN-2	794+67.56	10°22'39.85"	3844.00	349.08	696.25	N 40°17'14.72" E	695.30	791+18.48	798+14.73

SH 161 RAMPS									
CURVE	P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION
DCN746-1	736+27.99	5°55'39.03"	2865.00	148.33	296.40	N 3°48'16.59" W	296.27	734+79.66	737+76.06
DCN746-2	742+36.28	4°46'42.16"	2865.00	119.54	238.94	N 3°13'48.16" W	238.87	741+16.74	743+55.68
DCN746-3	747+57.30	4°46'42.40"	2865.00	119.54	238.94	N 3°13'48.04" W	238.87	746+37.76	748+76.70
XRN720-1	717+19.10	3°59'59.97"	2865.00	100.05	200.01	N 1°09'34.76" E	199.97	716+19.05	718+19.07
XRN720-2	720+91.45	5°18'47.72"	1432.00	66.45	132.79	N 5°48'58.60" E	132.75	720+25.00	721+57.80
XRN720-3	724+30.06	9°18'49.53"	955.00	77.79	155.24	N 3°48'57.69" E	155.07	723+52.27	725+07.51
XRN720-4	733+78.30	4°06'17.26"	2865.00	102.67	205.25	N 2°53'35.70" W	205.21	732+75.63	734+80.89
XRN720-5	736+96.34	4°06'17.26"	2865.00	102.67	205.25	N 2°53'35.70" W	205.21	735+93.66	737+98.92
XRN774-1	11+95.77	7°49'05.42"	2865.00	195.77	390.94	N 20°45'23.01" E	390.63	10+00.00	13+90.94
XRN774-2	20+25.92	16°32'12.13"	1146.00	166.54	330.76	N 32°56'01.78" E	329.61	18+59.38	21+90.14
XRN791-1	12+29.57	18°12'57.32"	1432.00	229.57	455.27	N 44°12'23.46" E	453.36	10+00.00	14+55.27
XRN791-2	18+41.60	3°45'47.47"	1432.00	47.04	94.05	N 51°25'58.38" E	94.04	17+94.55	18+88.61

HRW150 - PROPOSED SB SH 161 EXIT TO SH 183 WB HOV									
CURVE	P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION
HRW150-5	180+04.35	3°30'00.00"	5730.00	175.07	350.03	N 0°54'34.78" E	349.97	178+29.28	181+79.31
HRW150-6	188+84.15	3°59'58.57"	2874.79	100.38	200.68	N 1°09'34.06" E	200.64	187+83.77	189+84.44
HRW150-7	197+19.27	1°25'25.87"	2865.00	35.60	71.20	N 2°26'50.41" E	71.20	196+83.67	197+54.87

PRELIMINARY SCHEMATIC

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER
SH 183 REEVALUATION DESIGN SCHEMATIC
SH 183 FROM WEST OF SH 161 TO IH 35E
DALLAS COUNTY
CSJ: 0094–03–065 FROM 1.2 MILES EAST OF SH 360 TO 0.66 MILE WEST OF LOOP 12, PROJECT LENGTH 6.69 MILES
CSJ: 0094–07–015 FROM 1.0 MILES EAST OF LOOP 12 TO WEST END OF ELM FORK TRINITY BRIDGE, PROJECT LENGTH 0.3 MILE
CSJ: 0094–07–020 FROM WEST END OF ELM FORK TRINITY BRIDGE TO IH 35E, PROJECT LENGTH 1.1 MILES
DESIGN SPEED
FREEWAY = 70 mph
RAMPS = 50 mph
RAMP ERW168 = 40 MPH
DIRECT CONNECTORS = 50 mph
SH 161 DIRECT CONNECTORS (DCW139, DCW146, DCE149, DCE177, DCN733) = 35 MPH
FRONTAGE ROADS = 40 mph
CROSS STREETS = 40 mph
MANAGED LANES - HOV = 70 mph
AVERAGE DAILY TRAFFIC 2000 (2029)
IH 35E TO LOOP 12 174,100 (278,600)
LOOP 12 TO SH 360 216,900 (347,300)
ROADWAY: URBAN FREEWAY
BEGIN PROJECT SH 183 ℄ STA. 91+00 CSJ NO. 0094-03-065
BEGIN PROJECT SH 183 ℄ STA. 531+25 CSJ NO. 0094-07-015
END PROJECT SH 183 ℄ STA. 443+33 CSJ NO. 0094-03-065
END PROJECT SH 183 ℄ STA. 607+03 CSJ NO. 0094-07-020
END PROJECT CSJ NO. 0094-07-015 AND BEGIN PROJECT CSJ NO. 0094-07-020 SH183 ℄ STA. 549+50
DRAFT SUBMITTAL
NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.
DATE APPROVED
DATE SUBMITTED AUGUST 15, 2006
DATE REVISED MARCH 13, 2012
HALFF ASSOCIATES, INC. TBPE FIRM #F-312
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Matthew G. Craig 69910 03-13-12
Type or Print Name PE# Date
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ROLL 2B OF 5
ROLL 2B OF 5 STA. 133+00 TO STA. 260+00