Texas Department of Transportation

WACO DISTRICT DESIGN SCHEMATIC

TEXAS DEPARTMENT OF TRANSPORTATION
BELL COUNTY

RICHARD J. SKOPIK, P.E.
DISTRICT ENGINEER

PRELIMINARY DESIGN SCHEMATIC FOR:

IH35

LIMITS: FROM .10 MILE NORTH OF LOOP363S TO .70 MILE NORTH OF LOOP363N

CSJ CONTROL: 0015-14-102

SCALE: 1"=100' HORIZONTAL
SCALE: 1"=10' VERTICAL

DESIGN SPEED: MAINLANES - 70 MPH
RAMPS - 40 MPH
FRONTAGE ROADS - 40 MPH
CROSS STREETS - 30 MPH
U TURNS - 20 MPH
SPUR 290 (XH81) = 40 MPH

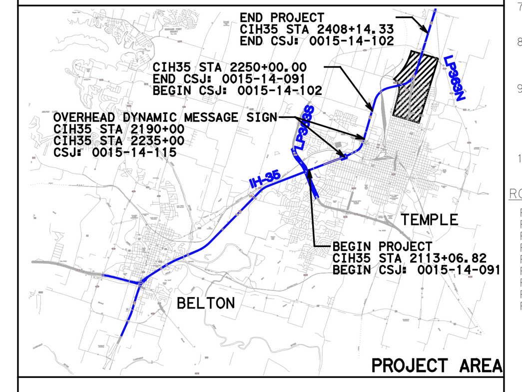
FUNCTIONAL CLASSIFICATION: FREEWAY

October 2011

ROLL 4 OF 9

LEGEND

ROADWAY
- MAIN LANE
- FRONTAGE ROAD
- SIDEWALK
- RAMP
- CROSS STREET
- DRIVEWAY / SIDE STREET
- BRIDGE
- PAVEMENT BY OTHERS
- EXISTING ROW
- PROPOSED ROW
- EXISTING RAILROAD ROW
- EXISTING DRAINAGE EASEMENT
- PROPOSED DRAINAGE EASEMENT
- PROPERTY LINE
- CONTROL OF ACCESS
- PAVEMENT REMOVAL
- PROPERTY DISPLACEMENT
- RETAINING WALL
- PROPOSED BRIDGE BENT
- LANE ARROWS (TRAFFIC DIRECTION)
- CIH35-1 CURVE DATA NO.



SCHEMATIC PREPARED BY:

HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754

FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.

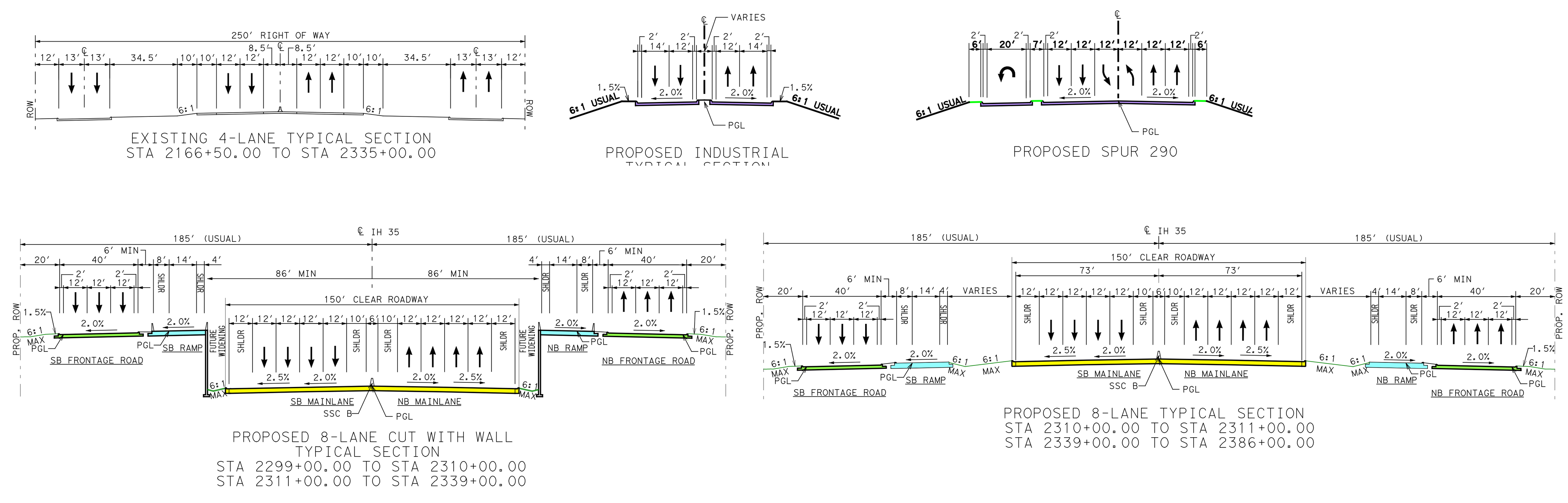
Prepared by or under the Direct Supervision of:

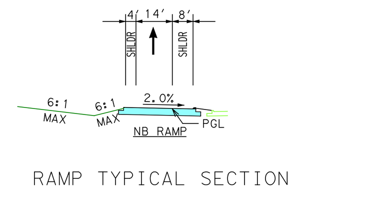
NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

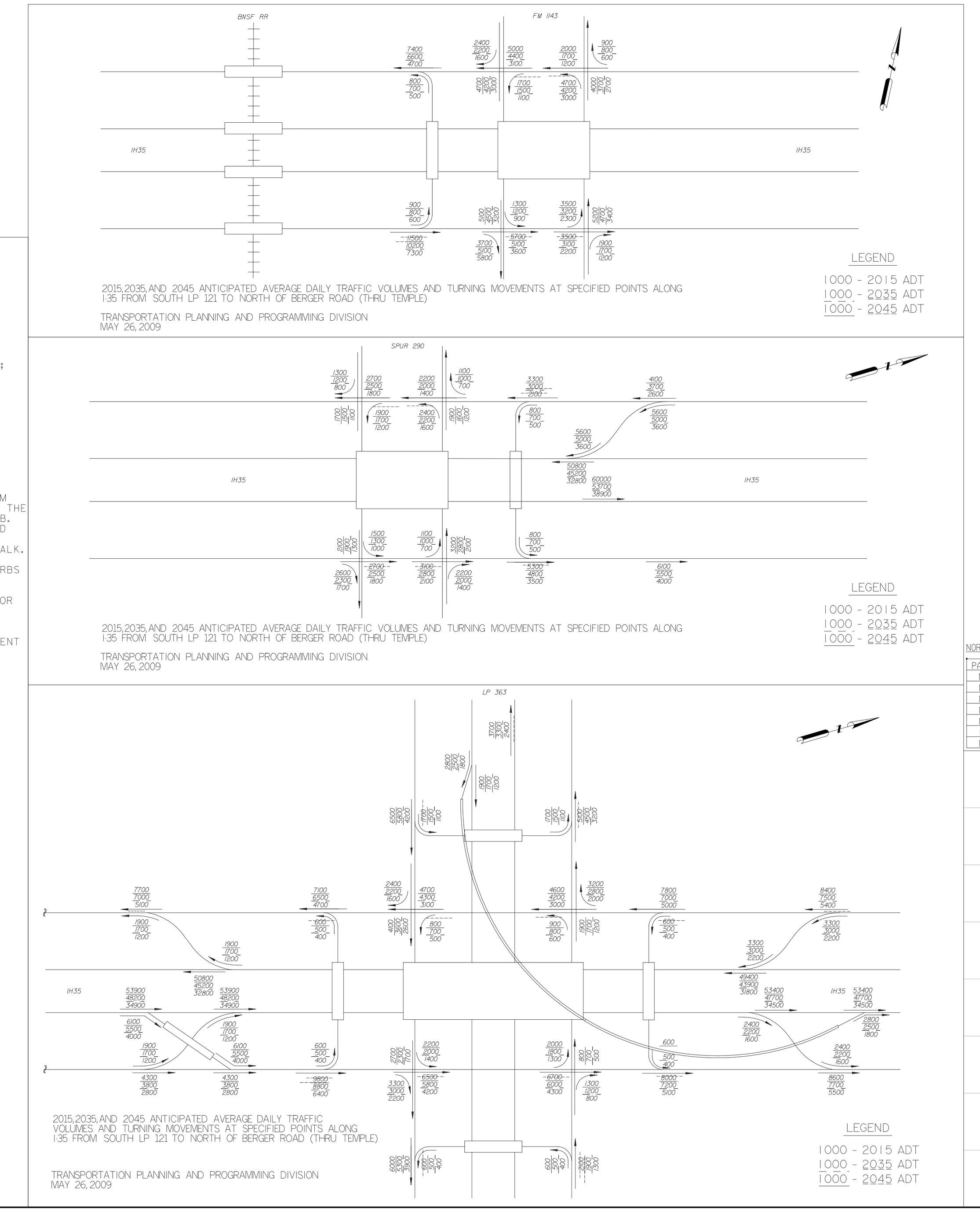
10-04-2011
DATE

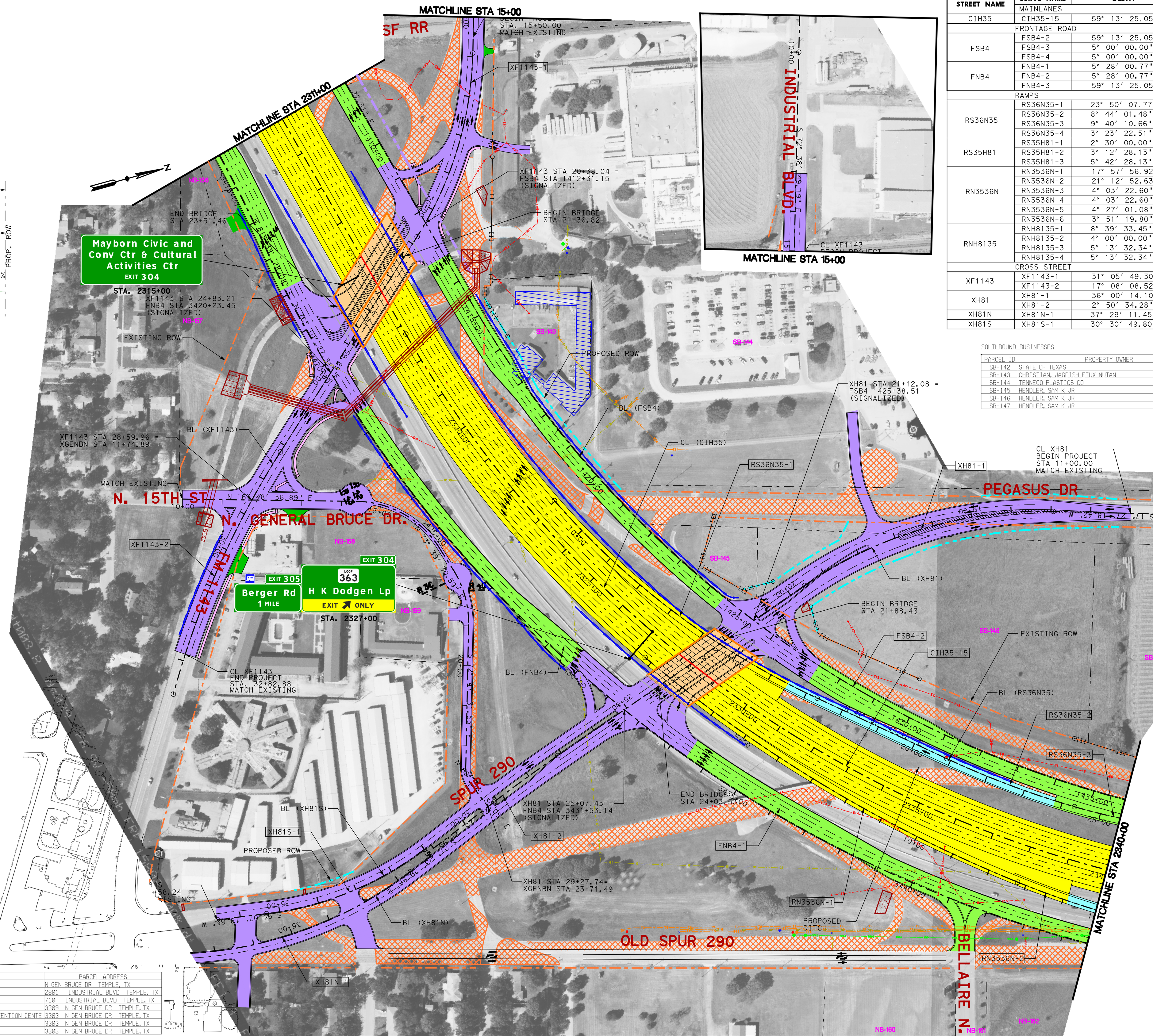
HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

© 2011 by Texas Department of Transportation all rights reserved









CURVE DATA

STREET NAME	CURVE NAME	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	NORTHING	EASTING	PI STATION	PC STATION	PT STATION
	MAINLANES										
CIH35	CIH35-15	59° 13' 25.05" LT	1° 59' 46.93"	1,631.17'	2,966.57'	2,870.00'	10,387,597.85	3,235,143.73	2333+54.96	2317+23.79	2346+90.36
	FRONTAGE ROAD										
FSB4	FSB4-2	59° 13' 25.05" LT	2° 07' 53.54"	1,527.73'	2,778.44'	2,688.00'	10,387,749.86	3,234,999.80	1429+76.83	1414+49.11	1442+27.55
	FSB4-3	5° 00' 00.00" LT	1° 25' 43.76"	175.08'	349.94'	4,010.00'	10,391,023.20	3,235,997.47	1461+21.83	1459+46.75	1462+96.68
	FSB4-4	5° 00' 00.00" RT	1° 25' 43.76"	175.08'	349.94'	4,010.00'	10,391,651.81	3,236,130.52	1467+64.13	1465+89.05	1469+38.99
FNB4	FNB4-1	5° 28' 00.77" RT	1° 38' 13.28"	167.10'	333.95'	3,500.00'	10,386,904.09	3,233,086.30	3415+00.00	3413+32.90	3416+66.85
	FNB4-2	5° 28' 00.77" LT	3° 10' 59.16"	85.94'	171.75'	1,800.00'	10,386,949.87	3,233,397.85	3418+14.64	3417+28.71	3419+00.45
	FNB4-3	59° 13' 25.05" LT	1° 49' 08.09"	1,790.31'	3,255.99'	3,150.00'	10,387,416.06	3,235,292.18	3437+65.37	3419+75.06	3452+31.05
	RAMPS										
RS36N35	RS36N35-1	23° 50' 07.77" LT	2° 51' 53.24"	422.11'	832.02'	2,000.00'	10,387,451.18	3,234,065.59	13+20.14	8+98.03	17+30.05
	RS36N35-2	8° 44' 01.48" LT	2° 32' 47.32"	171.82'	342.97'	2,250.00'	10,388,219.67	3,234,961.38	22+61.51	20+89.69	24+32.67
	RS36N35-3	9° 40' 10.66" LT	3° 49' 10.99"	126.88'	253.15'	1,500.00'	10,388,494.40	3,235,166.13	25+59.54	24+32.67	26+85.82
	RS36N35-4	3° 23' 22.51" RT	3° 49' 10.99"	44.38'	88.74'	1,500.00'	10,388,718.69	3,235,282.87	27+30.20	26+85.82	27+74.55
RS35H81	RS35H81-1	2° 30' 00.00" RT	1° 25' 56.62"	87.28'	174.53'	4,000.00'	10,389,566.61	3,235,589.07	10+87.28	10+00.00	11+74.53
	RS35H81-2	3° 12' 28.13" RT	0° 57' 00.64"	168.84'	337.60'	6,030.00'	10,390,362.30	3,235,866.02	20+11.40	18+42.56	21+80.16
	RS35H81-3	5° 42' 28.13" LT	0° 57' 00.64"	300.60'	600.71'	6,030.00'	10,390,677.32	3,235,987.29	24+80.76	21+80.16	27+80.87
RN3536N	RN3536N-1	17° 57' 56.92" LT	1° 38' 13.28"	553.28'	1,097.47'	3,500.00'	10,387,869.59	3,234,966.80	7+33.54	1+80.26	12+77.73
	RN3536N-2	21° 12' 52.63" LT	2° 26' 17.23"	440.10'	870.12'	2,350.00'	10,388,650.61	3,235,580.64	17+17.83	12+77.73	21+47.85
	RN3536N-3	4° 03' 22.60" RT	2° 51' 12.15"	71.11'	142.16'	2,008.00'	10,389,466.40	3,235,829.28	25+60.59	24+89.48	26+31.63
	RN3536N-4	4° 03' 22.60" LT	2° 52' 34.66"	70.54'	141.02'	1,992.00'	10,389,888.71	3,235,991.45	30+12.91	29+42.37	30+83.39
	RN3536N-5	4° 27' 01.08" RT	0° 57' 00.64"	234.30'	468.36'	6,030.00'	10,390,616.16	3,236,213.17	37+73.33	35+39.03	40+07.40
	RN3536N-6	3° 51' 19.80" LT	1° 25' 56.62"	134.63'	269.16'	4,000.00'	10,390,959.65	3,236,347.79	41+42.03	40+07.40	42+76.56
RNH8135	RNH8135-1	8° 39' 33.45" LT	2° 51' 53.24"	151.42'	302.27'	2,000.00'	10,388,881.68	3,235,705.42	11+51.42	10+00.00	13+02.27
	RNH8135-2	4° 00' 00.00" RT	1° 16' 23.66"	157.14'	314.16'	4,500.00'	10,389,767.55	3,235,932.53	20+72.53	19+15.39	22+29.55
	RNH8135-3	5° 13' 32.34" LT	0° 57' 00.64"	275.17'	549.96'	6,030.00'	10,390,155.94	3,236,039.45	25+93.50	23+18.33	28+68.29
	RNH8135-4	5° 13' 32.34" RT	0° 57' 17.75"	273.80'	547.23'	6,000.00'	10,390,688.59	3,236,175.59	31+42.09	28+68.29	34+15.52
	CROSS STREET										
XF1143	XF1143-1	31° 05' 49.30" RT	6° 21' 58.31"	250.41'	488.47'	900.00'	10,387,490.28	3,233,166.25	18+40.65	15+90.24	20+78.71
	XF1143-2	17° 08' 08.52" LT	2° 33' 54.03"	336.54'	668.06'	2,233.75'	10,386,571.36	3,233,980.68	30+56.18	27+19.64	33+87.70
XH81	XH81-1	36° 00' 14.10" LT	5° 25' 51.17"	342.83'	662.95'	1,055.00'	10,388,321.31	3,234,335.09	16+37.11	12+94.28	19+57.23
	XH81-2	2° 50' 34.28" LT	1° 25' 56.62"	99.25'	198.47'	4,000.00'	10,387,188.22	3,234,715.30	28+09.58	27+10.33	29+08.80
XH81N	XH81N-1	37° 29' 11.45" RT	5° 43' 46.48"	339.32'	654.26'	1,000.00'	10,386,845.18	3,234,862.56	35+01.92	31+62.60	38+16.86
XH81S	XH81S-1	30° 30' 49.80" RT	7° 01' 48.57"	222.30'	434.04'	815.00'	10,386,894.71	3,234,817.38	33+22.30	31+00.00	35+34.04

SOUTHBOUND BUSINESSES

PARCEL ID	PROPERTY OWNER	BUSINESS NAME	PARCEL ADDRESS
SB-142	STATE OF TEXAS	HIGHWAY MEDIAN	2800 N GEN BRUCE DR TEMPLE, TX
SB-143	CHRISTIAN, JAGDISH ETUX NUTAN	CONTINENTAL INN	3300 N GEN BRUCE DR TEMPLE, TX
SB-144	TENNECO PLASTICS CO	TENNECO PLASTICS CO	3000 PEGASUS DR TEMPLE, TX
SB-145	HENDLER, SAM K JR	UNDEVELOPED LAND	3618 N GEN BRUCE DR TEMPLE, TX
SB-146	HENDLER, SAM K JR	UNDEVELOPED LAND	3836 N GEN BRUCE DR TEMPLE, TX
SB-147	HENDLER, SAM K JR	UNDEVELOPED LAND	4026 N GEN BRUCE DR TEMPLE, TX

SUPERELEVATION DATA

NORTHBOUND MAINLANES

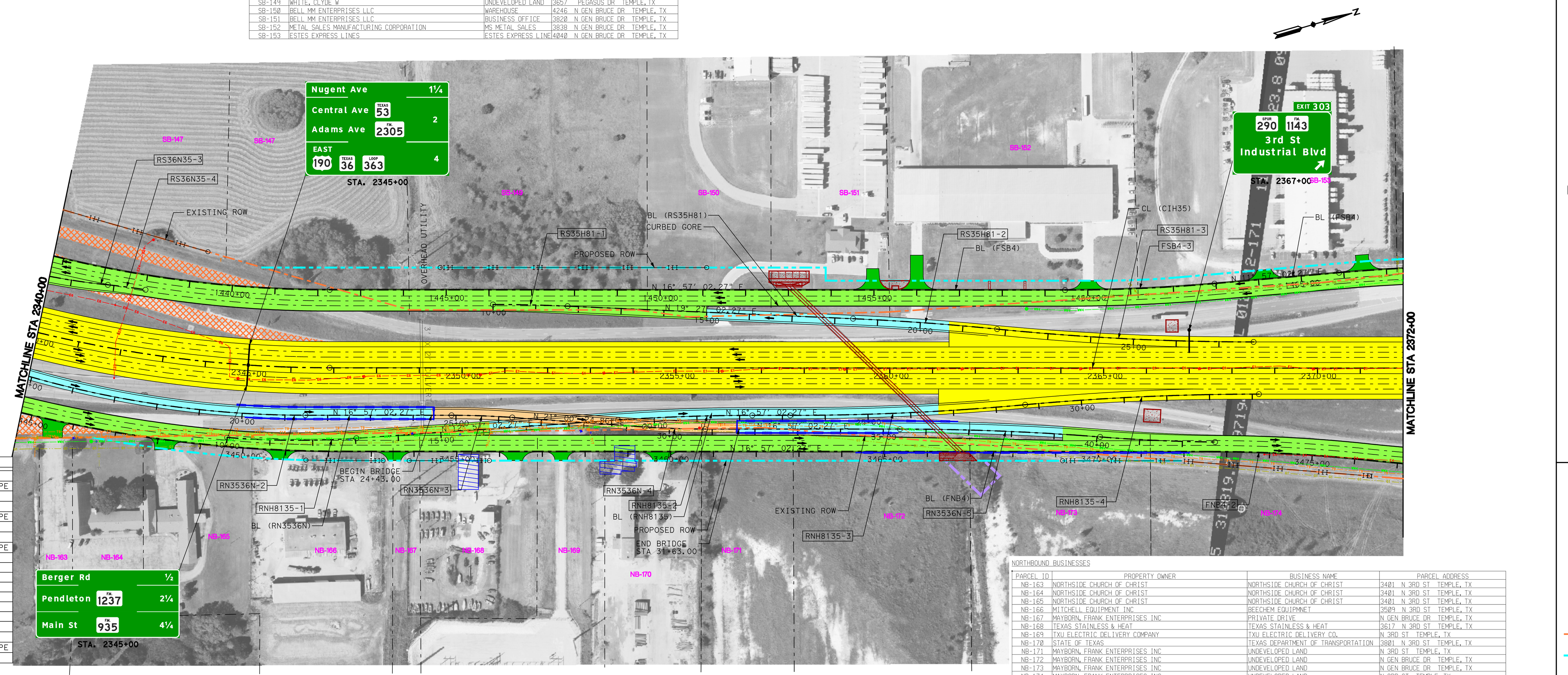
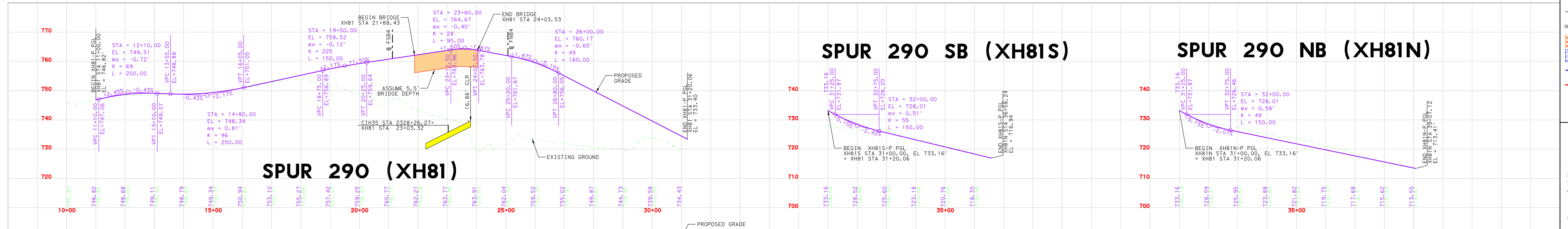
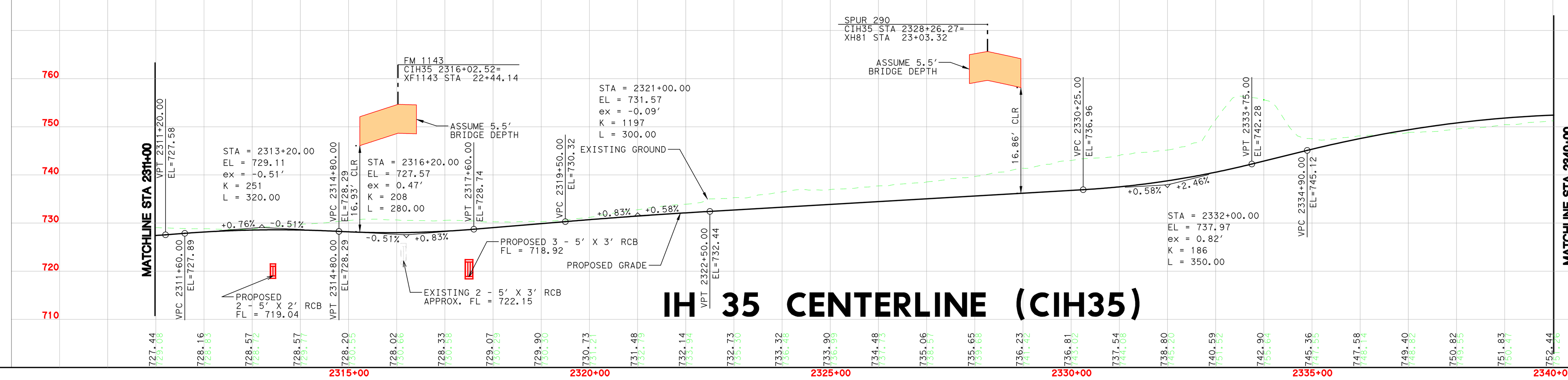
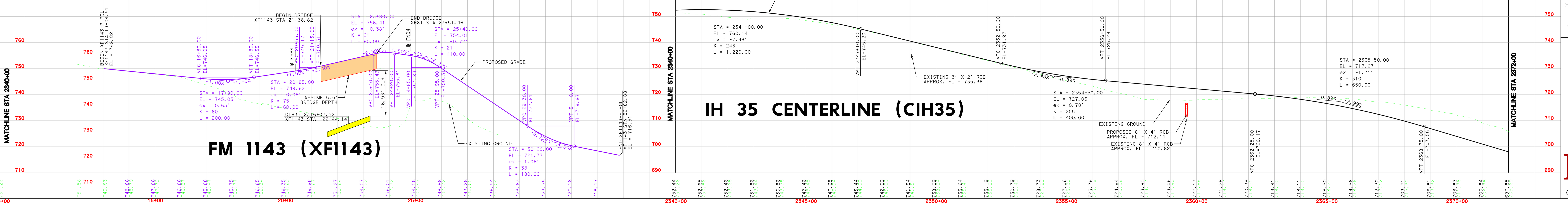
CHAIN NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	BEGIN FULL SUPER	SUPER RATE	END FULL SUPER	END TRANSITION	END CROSS SLOPE
CIH35	CIH35-15	-2.50%	2304+25.00	2319+53.00	5.40%	2344+61.00	2359+90.00	-2.50%

SOUTHBOUND MAINLANES

CHAIN NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	BEGIN FULL SUPER	SUPER RATE	END FULL SUPER	END TRANSITION	END CROSS SLOPE
CIH35	CIH35-15	-2.50%	2312+87.00	2318+17.00	-5.40%	2345+97.00	2351+27.00	-2.50%

RAMPS

CHAIN NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	END TRANSITION	CROSS SLOPE	BEGIN TRANSITION	END TRANSITION	END CROSS SLOPE
RN3536N	RN3536N-2	-5.40%	12+62.07	17+00.00	-5.40%	17+00.00	18+50.00	-3.95%
RN3536N	RN3536N-2	-	-	-	-3.95%	20+92.00	22+59.00	2.00%
RN3536N	RN3536N-3	2.00%	23+89.00	25+39.00	4.29%	25+82.00	27+32.00	2.00%
RN3536N	RN3536N-4	2.00%	28+25.00	30+01.00	-4.31%	30+25.50	32+01.00	2.00%
RNH8135	RNH8135-2	2.00%	18+64.00	20+14.56	2.50%	-	-	2.50%
RS36N35	RS36N35-1	-	-	-	5.40%	17+23.34	18+74.00	2.00%
RS36N35	RS36N35-2	2.00%	19+89.00	21+40.80	4.05%	-	-	-
RS35H81	RS35H81-2	2.00%	17+72.00	19+22.76	2.50%	-	-	-

FRONTAGE ROAD

CHAIN NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	END TRANSITION	CROSS SLOPE	BEGIN TRANSITION	END TRANSITION	END CROSS SLOPE
FSB4	FSB4-2	2.00%	1432+50.00	1434+00.00	4.05%	1435+00.00	1436+50.00	2.00%