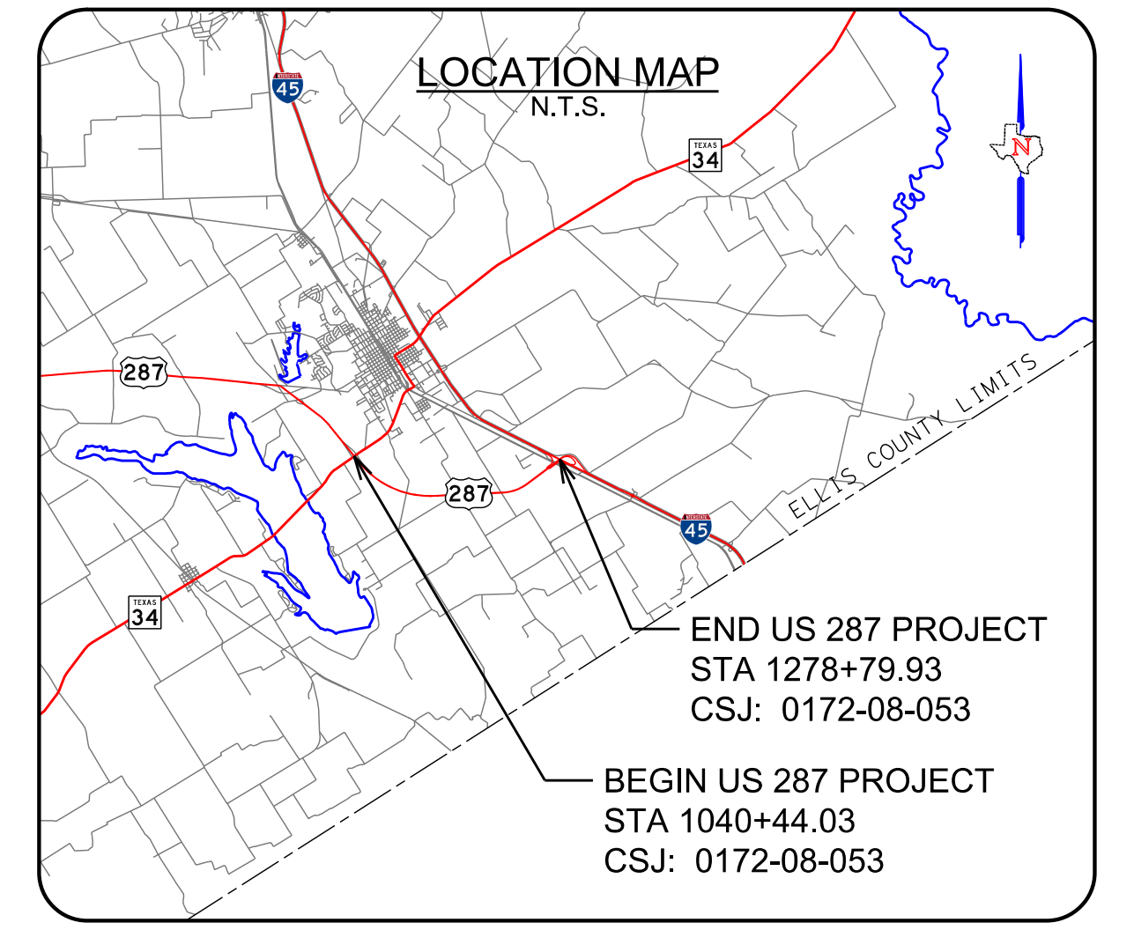
ROLL 2 OF 5, STA 1119+00.00 TO STA 1197+00.00

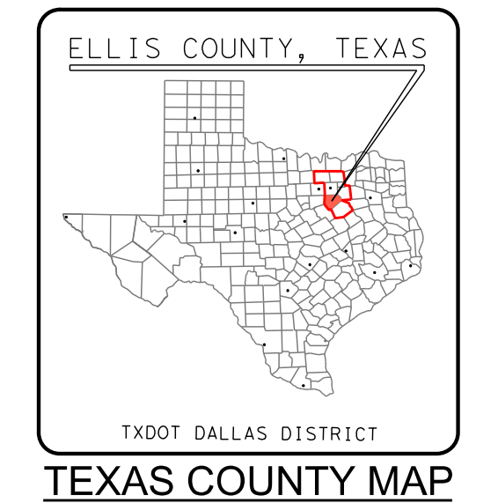
TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

US 287 DESIGN SCHEMATIC
FROM SH 34 TO IH 45
ELLIS COUNTY, TEXAS
CSJ 0172-08-053

MARCH 2014
ROLL 2 OF 5

PROJECT LENGTH:	4.51 MILES
FUNCTIONAL CLASSIFICATION:	URBAN FREEWAY
AVERAGE DAILY TRAFFIC:	12,300 (2018) 17,800 (2038)
DESIGN SPEED	
MAIN LANES:	70 MPH
RAMPS:	40 MPH
FRONTAGE ROADS:	40 MPH
CROSS STREETS:	30 MPH


LOCATION MAP
N.T.S.



TEXAS COUNTY MAP
N.T.S.

PRELIMINARY
FOR INTERIM REVIEW ONLY
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NAME	P.E. NO.	DATE
JEREMY W. MCGAHAN	103650	03/25/2014

HALFF ASSOCIATES, INC.
TBPE FIRM #F-312

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

0 10 20 30 40
VERTICAL SCALE:

0 100 200 300 400
HORIZONTAL SCALE:

DATE SUBMITTED: MARCH 25, 2014

DATE APPROVED: APRIL 30, 2014

LEGEND:

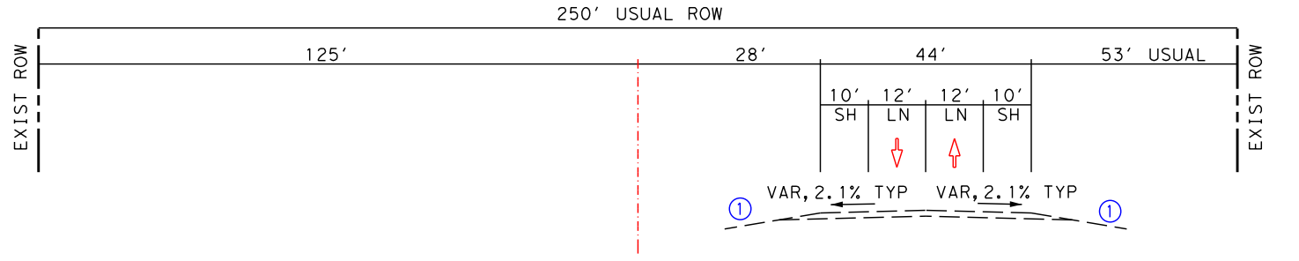
— - - —	EXISTING ROW
III	EXISTING ACCESS DENIAL (TO REMAIN)
— — — —	EXISTING EASEMENT
——	EXISTING PROPERTY LIMITS
——	EXISTING TELE / CABLE / FIBER
——	EXISTING WATER
——	EXISTING ELECTRIC
——	EXISTING WASTE WATER
——	EXISTING STORM SEWER
——	EXISTING GAS LINE
— - —	PROPOSED US 287 BASELINE
— - —	PROPOSED MINOR BASELINE
— - - —	PROPOSED ROW
— — — —	PROPOSED EASEMENT
III	PROPOSED ACCESS DENIAL
——	PROPOSED EDGE OF PAVEMENT
——	PROPOSED BRIDGE ABUTMENT
— — — —	PROPOSED BRIDGE BENT
——	PROPOSED TRAFFIC BARRIER
——	PROPOSED RETAINING WALL
——	PROPOSED CULVERT
— —	100 YR FLOODPLAIN LIMITS
⇨	DIRECTION OF TRAVEL
▬	PROPOSED BRIDGE
🟥	PROPOSED MAIN LANES
🟦	PROPOSED RAMP
🟩	PROPOSED FRONTAGE ROAD
🟪	PROPOSED CROSS STREET
🟧	PROPOSED SIDEWALK
⬛	PHASE 1 BRIDGE (BY OTHERS)
▬	PHASE 1 PAVEMENT (BY OTHERS)
▭	POTENTIAL DISPLACEMENTS
▨	PAVEMENT / BRIDGE TO BE REMOVED

GENERAL NOTES:

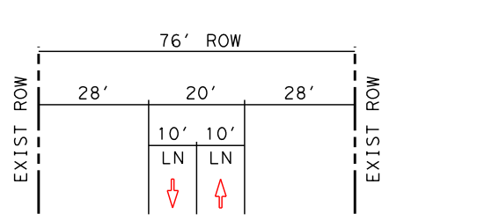
1. THE SCHEMATIC LAYOUTS ARE BASED ON LIMITED FIELD SURVEY, AERIAL TOPOGROPHY AND RECORD PLANS. NOT ALL EXISTING FEATURES WERE FIELD SURVEYED.
2. PARCEL LIMITS AND OWNERSHIP INFORMATION WAS COLLECTED FROM THE ELLIS COUNTY APPRAISAL DISTRICT (MAY 2013).
3. DIMENSIONS ARE TO EDGE OF UNCURBED PAVEMENT OR NOMINAL FACE OF RAIL / CURB / BARRIER (UNLESS NOTED OTHERWISE).
4. SUPERELEVATION TRANSITIONS ARE LINEAR WITH THE AXIS OF ROTATION LOCATED AT THE PGL.
5. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) WILL NOT BE DEVELOPED UNTIL PS&E DESIGN.
6. AVERAGE DAILY TRAFFIC VOLUME PROJECTIONS DEVELOPED BY TXDOT TP&P (AUGUST 2013).
7. ALL 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. DRIVEWAY LOCATIONS ARE PRELIMINARY AND WILL BE FURTHER DEVELOPED DURING PS&E DESIGN. ALL DRIVEWAYS UTILIZE 15' CURB RADIUS (UNLESS NOTED OTHERWISE).

NOTES:
① 6:1 DESIRABLE
4:1 MAX
② 4:1 DESIRABLE
3:1 MAX

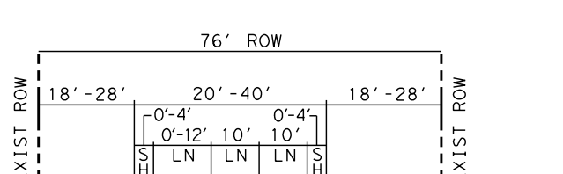
EXISTING TYPICAL SECTIONS
N.T.S.



EXISTING US 287 TYPICAL SECTION
STA 1119+00 TO STA 1197+00

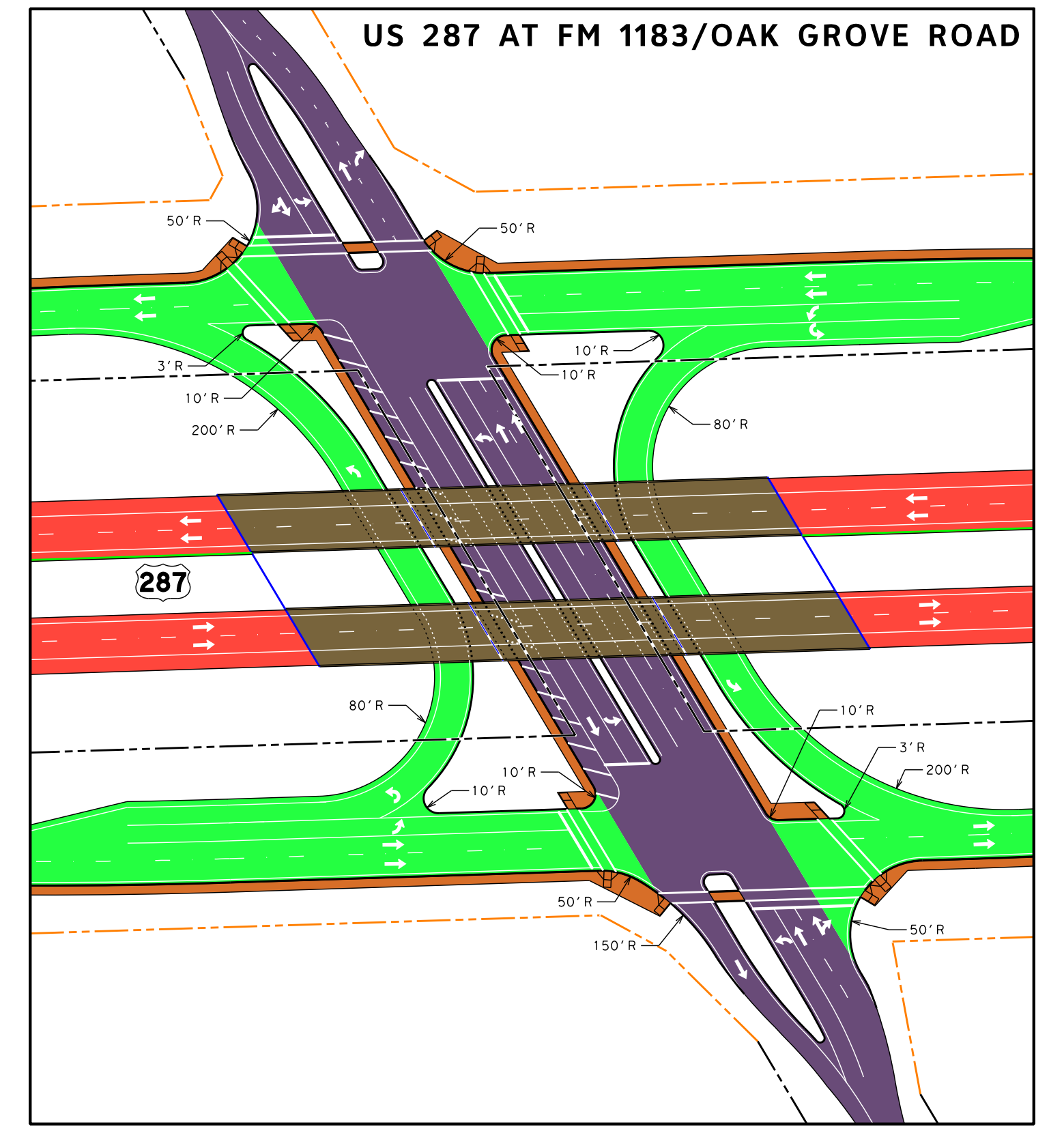


EXISTING TYPICAL SECTION
FM 1183 / OAK GROVE ROAD
STA 10+84 TO STA 21+50



EXISTING TYPICAL SECTION
FM 1183 / OAK GROVE ROAD
STA 10+00.00 TO STA 16+00.00

INTERSECTION LAYOUT
1":100'



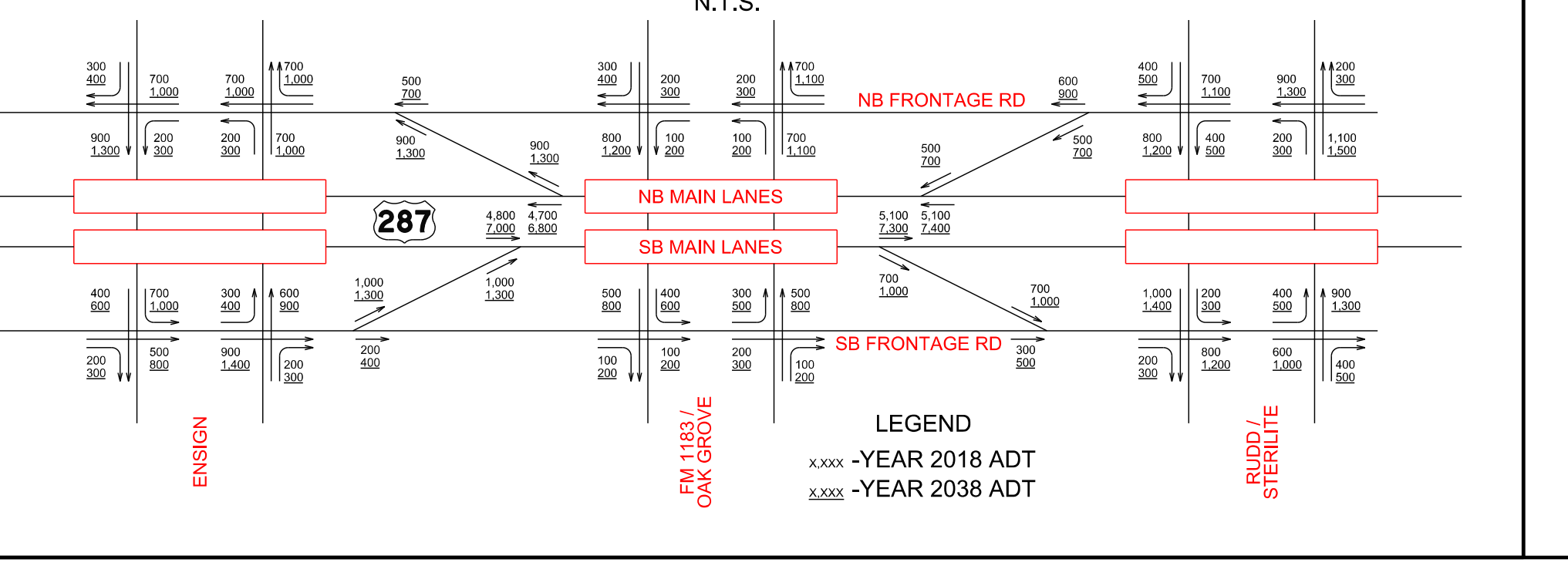
CURVE DATA

CURVE ID	CURVE	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
200	PNB287FR-4	2122+65.45	N 6,793,841.6169	E 2,550,550.3781	18° 04' 48.5872" (LT)	4,000.0000	636.4065	1,262.2335	S 85° 14' 18.4665" E	1,257.0030	2116+29.04	2128+91.27	S 76° 11' 54.1729" E	N 85° 43' 17.2399" E
201	PNB287FR-5	2131+90.71	N 6,793,911.4361	E 2,551,483.6175	8° 33' 44.5674" (RT)	4,000.0000	299.4409	597.7669	S 89° 59' 50.4764" E	597.2108	2128+91.27	2134+89.04	N 85° 43' 17.2399" E	S 85° 42' 58.1928" E
202	PNB287FR-6	2136+99.41	N 6,793,873.3547	E 2,551,992.0020	6° 06' 45.2414" (LT)	3,940.0000	210.3679	420.3366	S 88° 46' 20.8135" E	420.1373	2134+89.04	2139+09.38	S 85° 42' 58.1928" E	N 88° 10' 16.5659" E
203	PNB287FR-7	2151+86.47	N 6,793,920.8224	E 2,553,478.7013	8° 12' 37.9100" (LT)	4,000.0000	287.0930	573.2032	N 84° 03' 57.6109" E	572.7128	2148+99.37	2154+72.58	N 88° 10' 16.5659" E	N 79° 57' 38.6558" E
204	PNB287FR-8	2157+59.67	N 6,794,020.9162	E 2,554,044.0958	8° 12' 37.9100" (RT)	4,000.0000	287.0930	573.2032	N 84° 03' 57.6109" E	572.7128	2154+72.58	2160+45.78	N 79° 57' 38.6558" E	N 88° 10' 16.5659" E
205	PNB287FR-9	2168+22.73	N 6,794,054.8719	E 2,555,107.5936	7° 55' 16.6677" (RT)	4,000.0000	276.9467	553.0108	S 87° 52' 05.1003" E	552.5705	2165+45.78	2170+98.79	N 88° 10' 16.5659" E	S 83° 54' 26.7664" E
206	PNB287FR-10	2174+15.95	N 6,793,991.8161	E 2,555,698.3468	9° 04' 01.4139" (LT)	4,000.0000	317.1623	633.0002	S 88° 26' 27.4734" E	632.3399	2170+98.79	2177+31.79	S 83° 54' 26.7664" E	N 87° 01' 31.8196" E
207	PNB287FR-11	2185+31.65	N 6,794,049.7799	E 2,556,813.8638	4° 58' 25.4461" (LT)	4,000.0000	173.7252	347.2322	N 84° 32' 19.0966" E	347.1232	2183+57.92	2187+05.16	N 87° 01' 31.8196" E	N 82° 03' 06.3736" E
208	PNB287FR-12	2189+45.33	N 6,794,107.0137	E 2,557,223.7908	13° 41' 44.1605" (RT)	2,000.0000	240.1780	478.0666	N 88° 53' 58.4538" E	476.9293	2187+05.16	2191+83.22	N 82° 03' 06.3736" E	S 84° 15' 09.4659" E
209	PNB287FR-13	2194+48.07	N 6,794,056.4398	E 2,557,726.2720	7° 34' 33.9682" (LT)	4,000.0000	264.8419	528.9117	S 88° 02' 26.4500" E	528.5265	2191+83.22	2197+12.13	S 84° 15' 09.4659" E	N 88° 10' 16.5659" E
210	PRNESTE-1	12+01.38	N 6,793,979.2920	E 2,556,845.4556	5° 44' 59.3251" (LT)	4,010.0000	201.3771	402.4162	N 85° 17' 46.9033" E	402.2473	10+00.00	14+02.42	N 88° 10' 16.5659" E	N 82° 25' 17.2408" E
211	PRNESTE-2	17+85.98	N 6,794,056.4368	E 2,557,425.2856	8° 21' 25.7503" (RT)	5,250.0000	383.5623	765.7641	N 86° 36' 00.1159" E	765.0855	14+02.42	21+68.18	N 82° 25' 17.2408" E	S 89° 13' 17.0089" E
212	PRNXENS-1	16+60.56	N 6,793,846.5107	E 2,551,500.1203	4° 42' 53.5963" (RT)	5,250.0000	216.1341	432.0242	S 86° 58' 24.8884" E	431.9023	14+44.42	18+76.45	S 89° 19' 51.6865" E	S 84° 36' 58.0902" E
213	PRNXENS-2	21+29.18	N 6,793,802.5181	E 2,551,966.9163	7° 12' 45.3439" (LT)	4,010.0000	252.7303	504.7930	S 88° 13' 20.7622" E	504.4598	18+76.45	23+81.24	S 84° 36' 58.0902" E	N 88° 10' 16.5659" E
214	PRSEENS-1	15+21.16	N 6,793,613.8120	E 2,550,924.2933	11° 20' 17.5264" (LT)	5,250.0000	521.1603	1,038.9170	S 89° 35' 15.6053" E	1,037.2227	10+00.00	20+38.92	S 83° 55' 06.8421" E	N 84° 44' 35.6315" E
215	PRSEENS-2	21+58.91	N 6,793,672.5543	E 2,551,562.7530	3° 25' 40.9344" (RT)	4,010.0000	119.9960	239.9205	N 86° 27' 26.0987" E	239.8847	20+38.92	22+78.84	N 84° 44' 35.6315" E	N 88° 10' 16.5659" E
216	PRSXSTE-1	12+10.16	N 6,793,846.2318	E 2,556,344.3137	6° 00' 00.0000" (RT)	4,010.0000	210.1552	419.9262	S 88° 49' 43.4341" E	419.7344	10+00.00	14+19.93	N 88° 10' 16.5659" E	S 85° 49' 43.4341" E
217	PRSXSTE-2	19+62.82	N 6,793,791.4567	E 2,557,095.3636	8° 29' 19.5894" (LT)	5,250.0000	389.6253	777.8246	N 89° 55' 36.7711" E	777.1134	15+73.19	23+51.02	S 85° 49' 43.4341" E	N 85° 40' 56.9764" E
218	PSB287FR-8	3122+29.54	N 6,793,690.0573	E 2,550,291.7486	12° 07' 07.4611" (RT)	4,000.0000	424.6080	846.0476	S 85° 34' 10.9116" E	844.4714	3118+04.94	3126+50.98	N 88° 22' 15.3578" E	S 79° 30' 37.1811" E
219	PSB287FR-9	3128+87.07	N 6,793,569.7733	E 2,550,941.3964	13° 27' 50.9993" (LT)	2,000.0000	236.0814	469.9881	S 86° 14' 32.6807" E	468.9074	3126+50.98	3131+20.97	S 79° 30' 37.1811" E	N 87° 01' 31.8197" E
220	PSB287FR-10	3145+80.23	N 6,793,657.7466	E 2,552,634.4474	1° 08' 44.7462" (RT)	4,000.0000	39.9960	79.9893	N 87° 35' 54.1928" E	79.9880	3145+40.23	3146+20.22	N 87° 01' 31.8197" E	N 88° 10' 16.5659" E
221	PSB287FR-11	3154+97.88	N 6,793,687.0308	E 2,553,551.6338	8° 12' 37.9100" (RT)	4,000.0000	287.0930	573.2032	S 87° 43' 24.4791" E	572.7128	3152+10.78	3157+83.99	N 88° 10' 16.5659" E	S 83° 37' 05.5241" E
222	PSB287FR-12	3160+71.08	N 6,793,623.2081	E 2,554,122.2618	8° 12' 37.9100" (LT)	4,000.0000	287.0930	573.2032	S 87° 43' 24.4791" E	572.7128	3157+83.99	3163+57.19	S 83° 37' 05.5241" E	N 88° 10' 16.5659" E
223	PSB287FR-13	3170+44.73	N 6,793,654.3104	E 2,555,096.3943	5° 19' 46.2506" (LT)	4,000.0000	186.1694	372.0703	N 85° 30' 23.4406" E	371.9361	3168+58.56	3172+30.63	N 88° 10' 16.5659" E	N 82° 50' 30.3153" E
224	PSB287FR-14	3181+57.87	N 6,793,793.0526	E 2,556,201.1257	11° 59' 44.3985" (RT)	3,940.0000	413.9600	824.8937	N 88° 50' 22.5146" E	823.3879	3177+43.91	3185+68.80	N 82° 50' 30.3153" E	S 85° 09' 45.2861" E
225	PSB287FR-15	3188+94.48	N 6,793,730.6800	E 2,556,938.1288	12° 23' 29.1923" (LT)	3,000.0000	325.6776	648.8144	N 88° 38' 30.1177" E	647.5507	3185+68.80	3192+17.62	S 85° 09' 45.2861" E	N 82° 26' 45.5216" E
226	PSB287FR-16	3194+17.63	N 6,793,799.7883	E 2,557,459.2609	5° 43' 31.0443" (RT)	4,000.0000	200.0168	399.7006	N 85° 18' 31.0437" E	399.5344	3192+17.62	3196+17.32	N 82° 26' 45.5216" E	N 88° 10' 16.5659" E
227	PUS287-1	1092+58.25	N 6,793,584.2214	E 2,546,633.9492	56° 43' 33.3082" (LT)	9,060.7020	4,891.5359	8,970.5848	S 63° 27' 56.7801" E	8,608.6715	1043+66.72	1133+37.30	S 35° 06' 10.1260" E	N 88° 10' 16.5659" E

PARCEL DATA

PARCEL ID	OWNER	PROPERTY ADDRESS
56	HOLEY FREDDIE WAYNE	HIGHWAY 287 BYPASS
57	HOLEY FREDDIE WAYNE	ENSIGN RD
58	LISKA STANLEY J	HIGHWAY 287 BYPASS
60	TXDOT	HIGHWAY 287 BYPASS
61	LISKA STANLEY J	LISKA RD
62	STOKES DOUGLAS W	LISKA RD
63	STOKES DOUGLAS W	LISKA RD
64	MORTON JACK B & JOY	HIGHWAY 287
66	VICTORY IN HIM MINISTRIES	HIGHWAY 287
67	HESTER AUBREY G ET AL	287 LISKA RD
68	HESTER AUBREY G ET AL	3619 FM 1183
69	TXDOT	HIGHWAY 287 BYPASS
71	HESTER AUBREY G ET AL	HIGHWAY 287
72	JOHNSON LINDA A & MC COY DOROTHY	FM 1183
73	ENNIS ECONOMIC DEVELOPMENT	HIGHWAY 287 BYPASS
74	ENNIS ECONOMIC DEVELOPMENT	HIGHWAY 287 BYPASS
75	AMERICO-ENNIS LP COLONNADE II	2000 HIGHWAY 287
76	ENNIS ECONOMIC DEVELOPMENT	HIGHWAY 287 BYPASS
77	ENNIS ECONOMIC DEVELOPMENT	HIGHWAY 287 BYPASS
78	MARAK RAYMOND	FM 1183
79	ENNIS ECONOMIC DEVELOPMENT	HIGHWAY 287 BYPASS
80	STERILITE INDUSTRIAL REALTY LLC	5201 STERILITE DR
81	MARAK RAYMOND	FM 1183

TRAFFIC DIAGRAM
N.T.S.

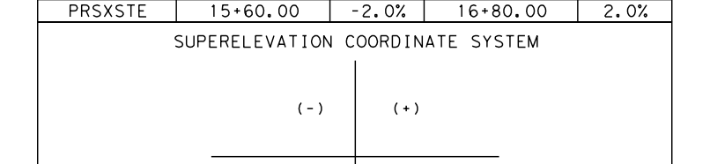


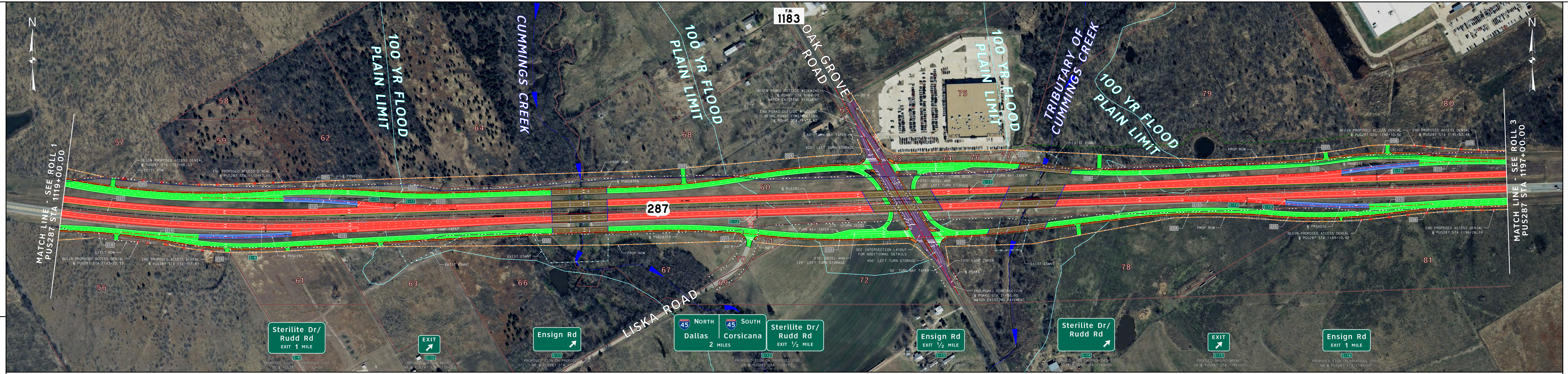
LEGEND
x,xxx -YEAR 2018 ADT
x,xxx (underlined) -YEAR 2038 ADT

SUPERELEVATION DATA

CHAIN	BEGIN TRANSITION		END TRANSITION	
	STA	e	STA	e
NB PUS287	1132+68.30	2.3%	1134+75.30	2.0%
SB PUS287	1131+65.30	2.3%	1136+81.30	-2.0%
PRNESTE	13+50.00	2.0%	14+70.00	-2.0%
PRNXENS	17+20.00	-2.0%	18+40.00	2.0%
PRSEENS	18+70.00	2.0%	19+20.00	2.3%
PRSXSTE	15+60.00	-2.0%	16+80.00	2.0%

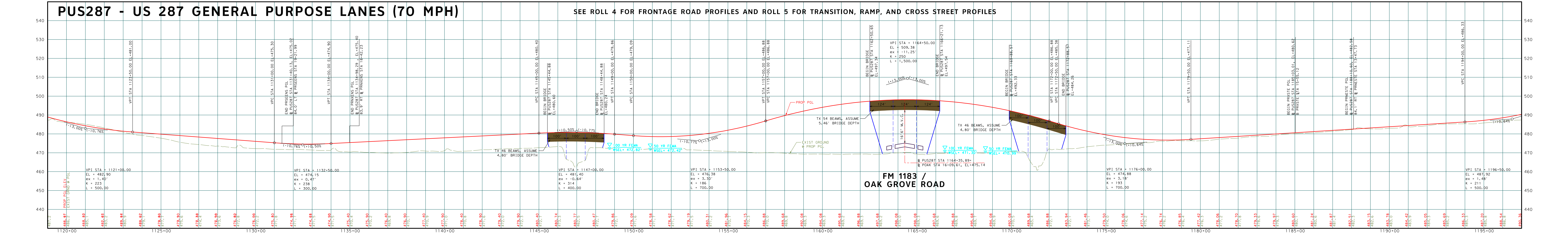
SUPERELEVATION COORDINATE SYSTEM





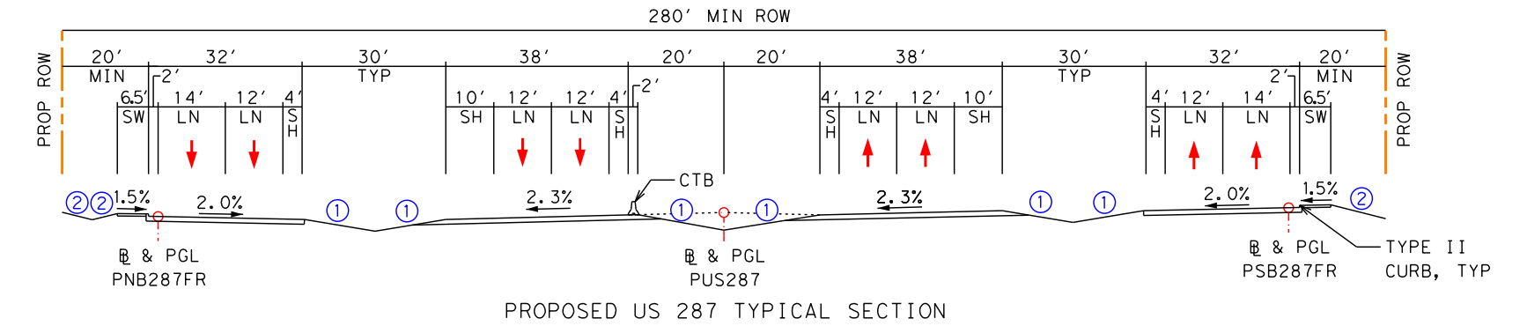
PUS287 - US 287 GENERAL PURPOSE LANES (70 MPH)

SEE ROLL 4 FOR FRONTAGE ROAD PROFILES AND ROLL 5 FOR TRANSITION, RAMP, AND CROSS STREET PROFILES

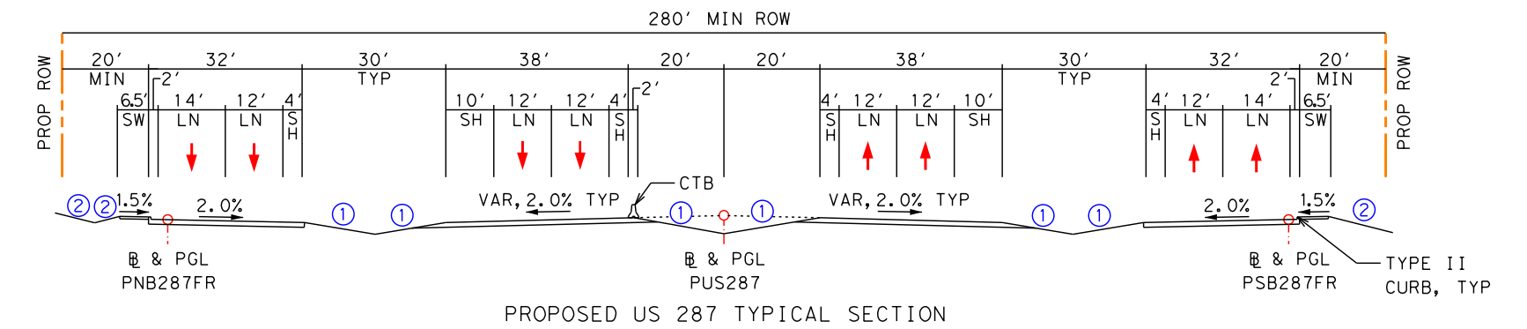


PROPOSED TYPICAL SECTIONS
N.T.S.

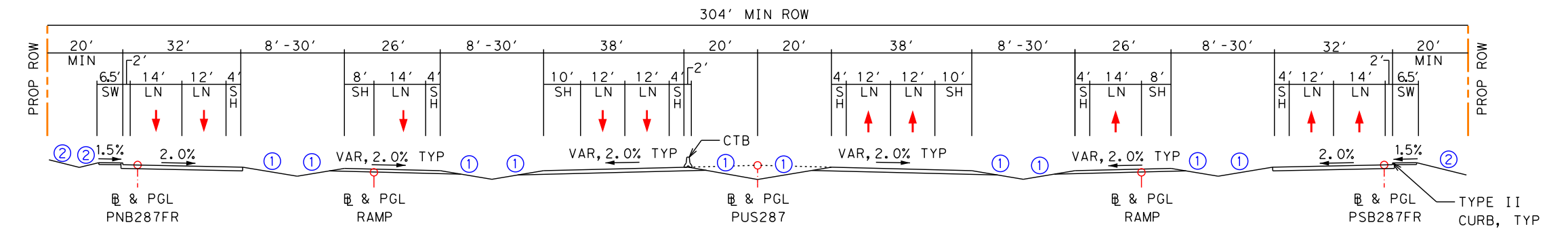
NOTES:
① 6:1 DESIRABLE
4:1 MAX
② 4:1 DESIRABLE
3:1 MAX



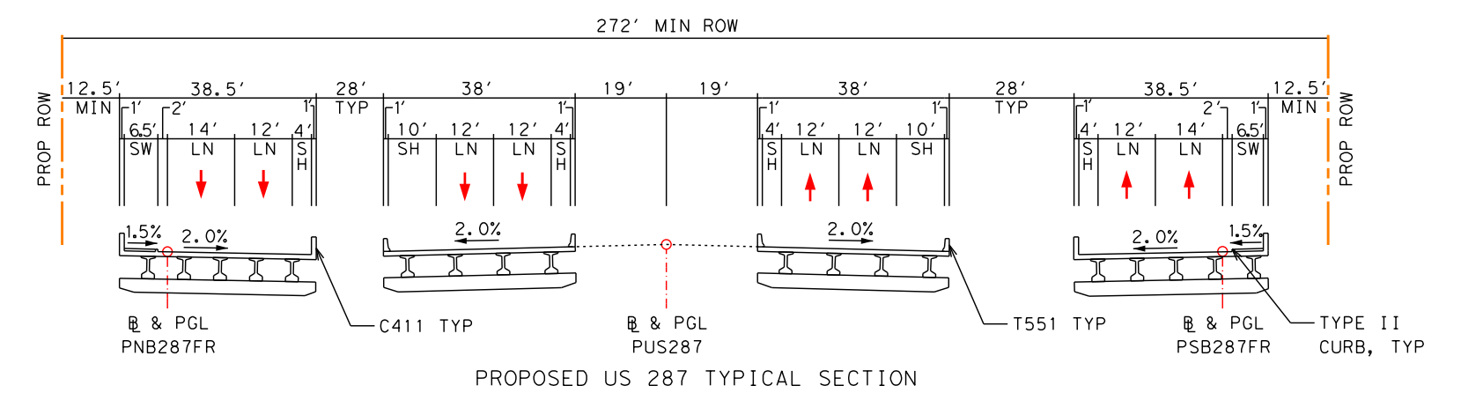
PROPOSED US 287 TYPICAL SECTION
STA 1119+00 TO STA 1127+00



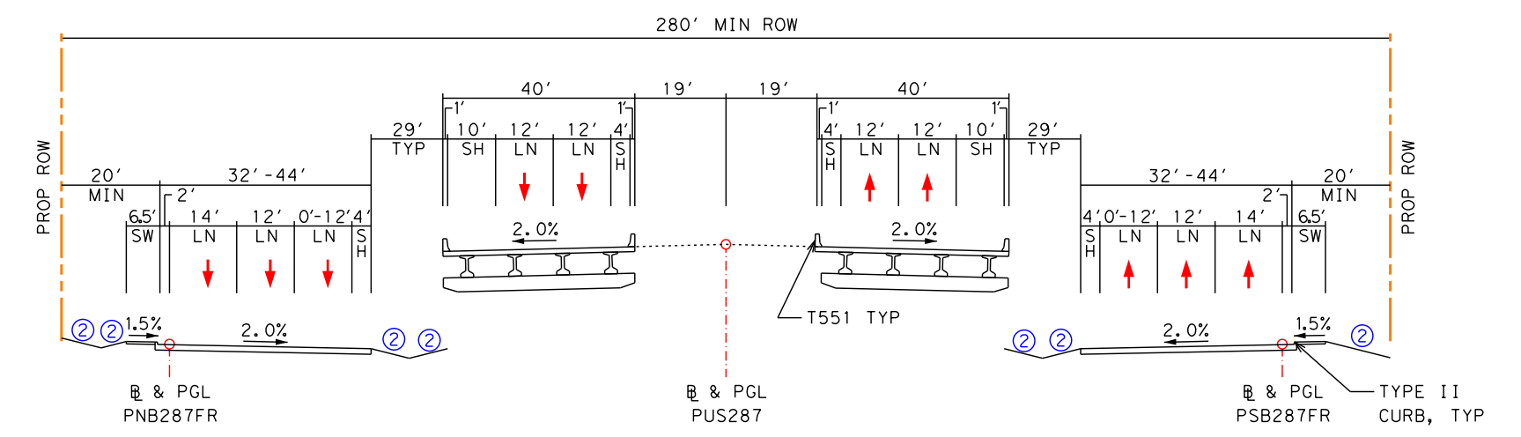
PROPOSED US 287 TYPICAL SECTION
STA 1135+00 TO STA 1145+50, STA 1148+50 TO STA 1162+50
STA 1166+00 TO STA 1170+00, STA 1173+00 TO STA 1185+00, STA 1192+00 TO STA 1197+00



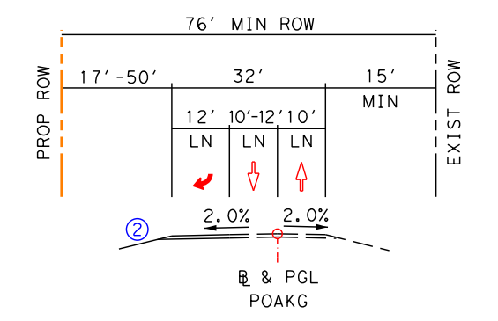
PROPOSED US 287 TYPICAL SECTION
STA 1127+00 TO STA 1135+00, STA 1185+00 TO STA 1192+00



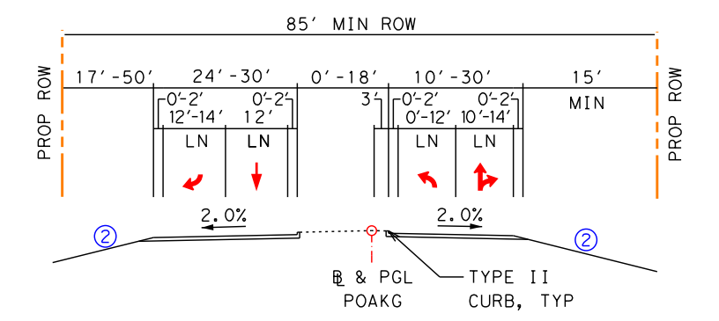
PROPOSED US 287 TYPICAL SECTION
STA 1145+50 TO STA 1148+50, STA 1170+00 TO STA 1173+00



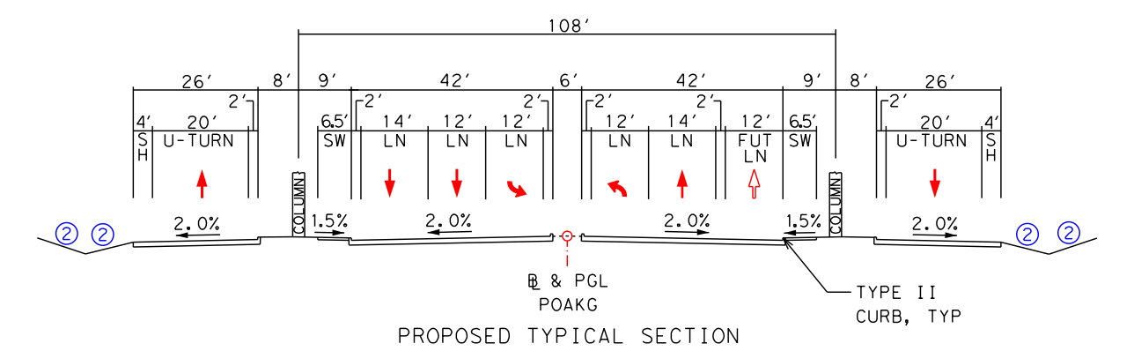
PROPOSED US 287 TYPICAL SECTION
STA 1162+50 TO STA 1166+00



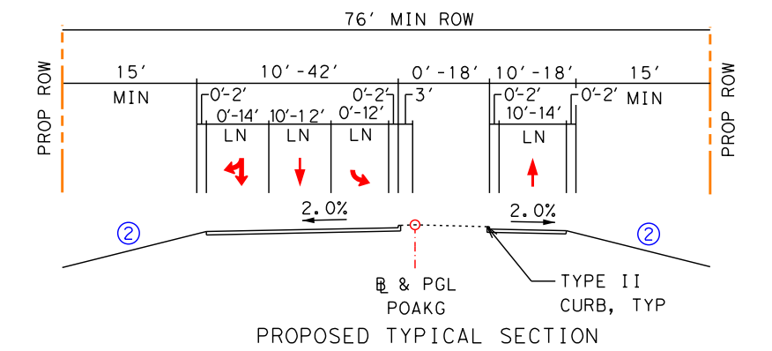
PROPOSED TYPICAL SECTION
FM 1183 / OAK GROVE ROAD
STA 9+84 TO STA 11+34



PROPOSED TYPICAL SECTION
FM 1183 / OAK GROVE ROAD
STA 11+34 TO STA 13+80



PROPOSED TYPICAL SECTION
FM 1183 / OAK GROVE ROAD
STA 13+80 TO STA 18+40



PROPOSED TYPICAL SECTION
FM 1183 / OAK GROVE ROAD
STA 18+40 TO STA 21+50

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER
US 287 DESIGN SCHEMATIC
FROM SH 34 TO IH 45
ELLIS COUNTY, TEXAS
CSJ 0172-08-053
MARCH 2014
ROLL 2 OF 5
PROJECT LENGTH: 4.51 MILES
FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
AVERAGE DAILY TRAFFIC: 12,300 (2018) 17,800 (2038)
DESIGN SPEED
MAIN LANES: 70 MPH
RAMPS: 40 MPH
FRONTAGE ROADS: 40 MPH
CROSS STREETS: 30 MPH
LOCATION MAP
N.T.S.
TEXAS COUNTY MAP
N.T.S.
PRELIMINARY
FOR INTERIM REVIEW ONLY
HALFF
DATE SUBMITTED: MARCH 25, 2014
DATE APPROVED: APRIL 30, 2014
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ROLL 2 OF 5, STA 1119+00.00 TO STA 1197+00.00