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Texas Department of Transportation

PARIS DISTRICT
NOEL PARAMANATHAM, P.E. - DISTRICT ENGINEER

60% DESIGN SCHEMATIC
LOOP 286

CSJ's:
1690-01-123
1690-01-124
1690-01-125

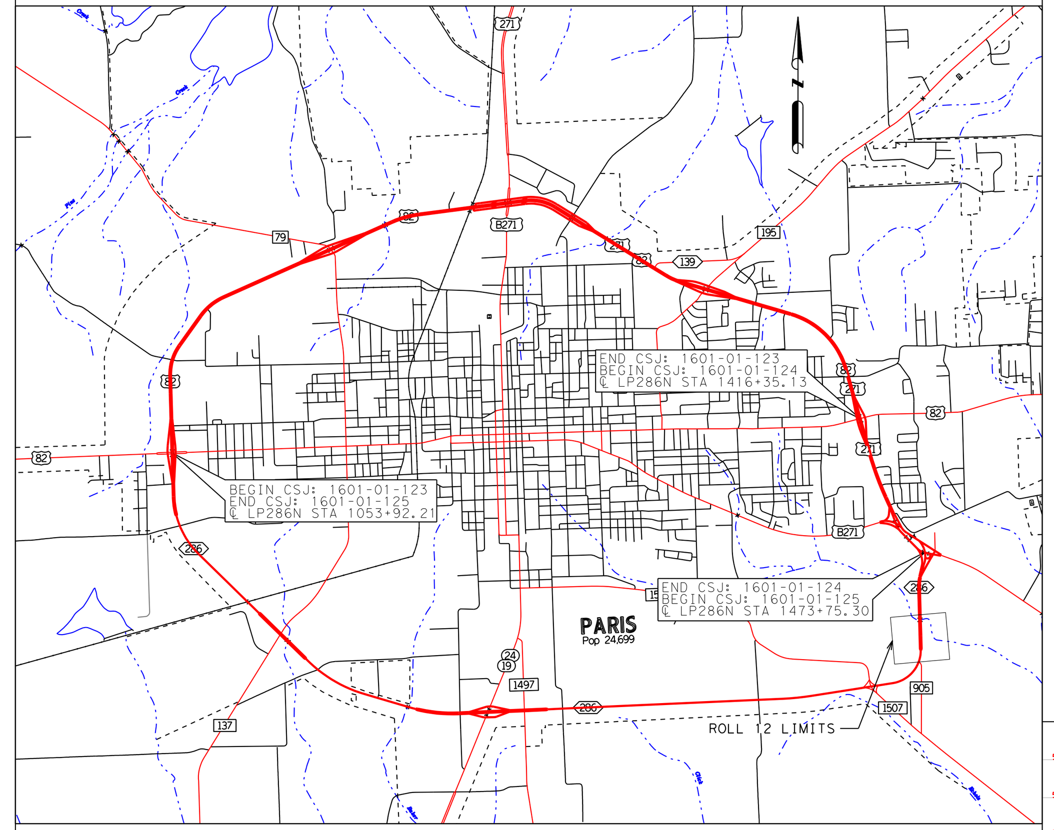
NET LENGTH OF PROJECT: 81632 FEET = 15.5 MILES

- ROADWAY 76,020 FEET = 14.4 MILES
- BRIDGE 5,612 FEET = 1.1 MILES

TRAFFIC DATA

	US82W TO US271N	US271N TO US82E	US82E TO US82W
2018 ADT	11,800	30,000	7,200
2038 ADT	16,400	36,500	9,900

ROADWAY	FUNCTIONAL CLASS.	DESIGN SPEED	eMAX
LOOP 286	URBAN FREEWAY	50 MPH	6%
RAMPS	RAMPS	40 MPH	6%
FRONTAGE ROAD	URBAN COLLECTOR	40 MPH	2%
CROSS STREETS	URBAN MINOR ARTERIAL	30 MPH	2%
	URBAN COLLECTOR	30 MPH	2%
TURNAROUNDS	URBAN MINOR COLLECTOR	25 MPH	2%



LOCATION MAP : N.T.S.

DESIGN STANDARDS USED

TXDOT ROADWAY DESIGN MANUAL: 2018
AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS: 2011
TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES: 2014
TRB HIGHWAY CAPACITY MANUAL: 2010
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD): 2011
TXDOT ACCESS MANAGEMENT MANUAL: 2011
TXDOT HYDRAULIC DESIGN MANUAL: 2019

SCHEMATIC PREPARED BY:
BURNS & MCDONNELL
FIRM REGISTRATION NUMBER F-845
JOSHUA RYAN ROBERTSON 115996
NAME P.E. NUMBER
7/9/2020
DATE

PRELIMINARY

NOT INTENDED FOR PERMIT, BIDDING, OR CONSTRUCTION PURPOSES AND SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW.

JULY 2020

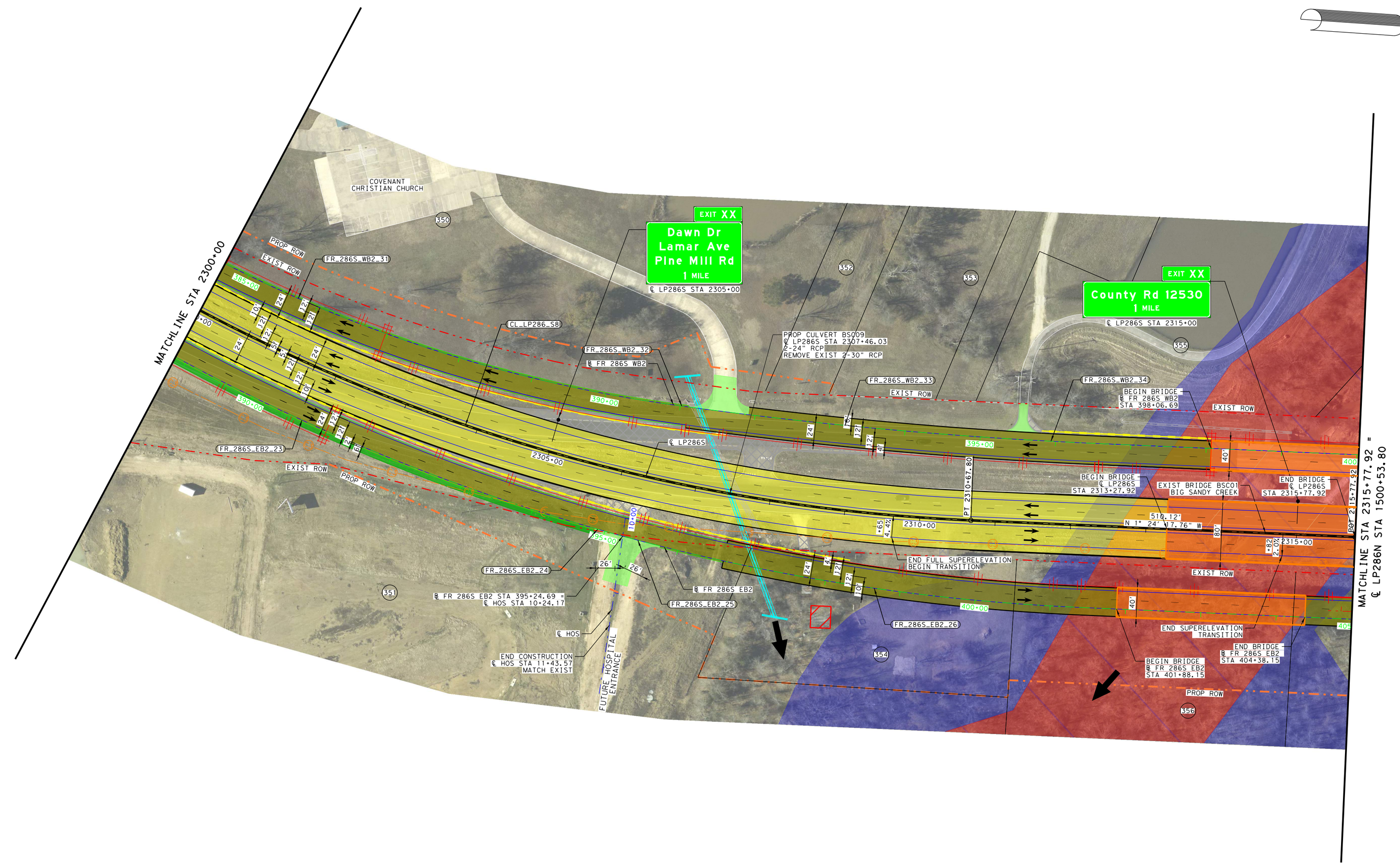
BURNS McDONNELL
15950 N. DALLAS PKWY.
SUITE 700
DALLAS, TX. 75248

ROLL 12 OF 22

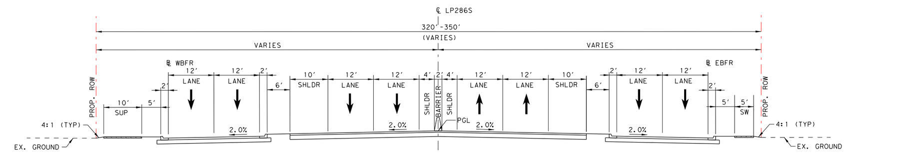
HORZ SCALE 0 50 100 200
VERT SCALE 0 5 10 20

LEGEND:

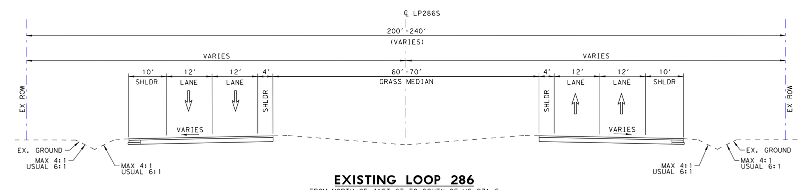
- PROPOSED CENTERLINE/BASELINE
- PROPOSED ROW
- EXISTING ROW
- PARCEL LINE
- MAINLANE/FR/CROSS STREET EOP*
- RAMP EOP*
- MAINLANE/RAMP EOT**
- FRONTAGE ROAD EOT**
- CROSS STREET EOT**
- FRONTAGE ROAD BACK OF CURB
- CROSS STREET BACK OF CURB
- TURNAROUND BACK OF CURB
- PAVEMENT STRIPING
- PAVEMENT DASHED STRIPING
- DOUBLE YELLOW PAVEMENT STRIPING
- SOLID WHITE PAVEMENT STRIPING
- PROPOSED TRAFFIC ARROW
- EXISTING TRAFFIC ARROW
- PROPOSED CONTROL OF ACCESS
- DIRECT DISPLACEMENT
- INDUCED DISPLACEMENT
- *EOP = EDGE OF PAVEMENT
- **EOT = EDGE OF TRAVEL
- PROPOSED BRIDGE LIMITS
- EXISTING BRIDGE LIMITS
- PAVEMENT REMOVAL
- PROPOSED MAINLANE AND RAMPS
- PROPOSED FRONTAGE ROAD/CROSS STREET
- PROPOSED RAMP
- PROPOSED DRIVEWAY
- PROPOSED SHARED USE PATH OR SIDEWALK
- PROPOSED RETAINING WALL
- BRIDGE BENTS
- FEMA FLOOD AE
- FEMA FLOODWAY
- FEMA FLOOD A
- DRAINAGE FLOW LINE
- EXISTING CULVERT
- PROPOSED CULVERT
- CULVERT FLOW
- PROPOSED OVERHEAD SIGN
- ABANDONED UTILITY
- COMMUNICATIONS QL "D": AT&T(TELE) C1; AT&T (FO/DUCT) C2; PEOPLES (FO/DUCT) C3; SUDDENLINK (FO/DUCT) C4; SUDDENLINK (CABLE) C5
- ELECTRIC / POWER QL "D": ONCOR E1; TXDOT E2
- GAS / PETROLEUM QL "D": ATMOS G1; ATMOS PL1; MOBILE PRODUCING PL2
- SANITARY SEWER QL "D": CITY OF PARIS WW1
- POTABLE WATER QL "D": CITY OF PARIS W1
- TRAFFIC SIGNALS QL "D": CITY OF PARIS TS1
- UTILITY SYMBOLS: END CAP; UTILITY CONTINUATION



PARCEL #	PROPERTY OWNER	ADDRESS
350	Covenant Christian Church of Paris	PO Box 1803, Paris TX 75461
351	Paris Lakes Medical Center LLC	PO Box 1610, Paris TX 75461
352	Benton Rainey	3340 Stillhouse Rd, Paris TX 75462
353	Benny L and Patricia A Short	4225 SE Loop 286, Paris TX 75460
354	Donald R Howell	115 Airport Rd, Paris TX 75460
355	Allan R and Jane W Helberg, Chad and Mandy Helberg	1849 Lamar Ave Suite 200, Paris TX 75460
356	Daniel L and Debra Fleming	4800 Trail End, Paris TX 75462



PROPOSED LOOP 286
SOUTH LOOP
4 LANES WITH FRONTAGE ROADS
℄ LP286S STA 2310+00



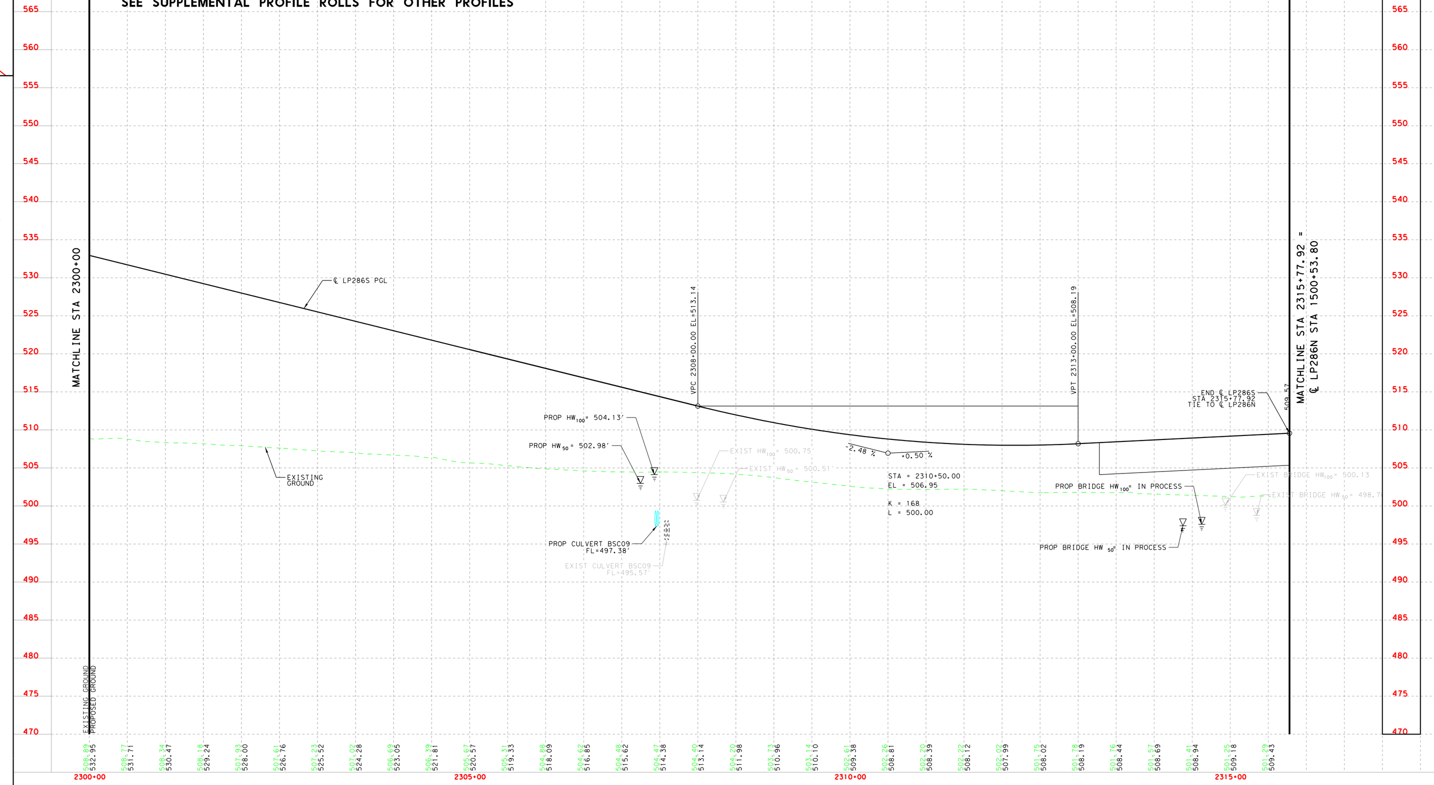
EXISTING LOOP 286
FROM NORTH OF 41ST ST TO SOUTH OF US 271 S

MAINLANES SUPER ELEVATION TRANSITIONS TABLE							
ALIGNMENT	CURVE ID	RADIUS (FT)	FULL SUPERELEVATION RATE	BEGIN TRANSITION	BEGIN FULL SUPERELEVATION	END FULL SUPERELEVATION	END TRANSITION
CL_LP286_S	CL_LP286_S8	2400	4.40%	2298+12.61	2298+53.02	2309+65.00	2314+82.00
CL_LP286_S			-2.00%	2314+82.00			

HORIZONTAL CURVE TABLE

CHAIN NAME	CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	BACK BEARING	AHEAD BEARING	PI STA.	PC STA.	PT STA.
CL_LP286_S	CL_LP286_S8	29° 28′ 59.42" LT	2° 23′ 14.37"	631.49′	1,234.99′	2,400.00′	N 28° 04′ 41.66" E	N 1° 24′ 17.76" W	2304+64.31	2298+32.82	2310+67.80
FR_286S_EB2	FR_286S_EB2_23	16° 53′ 58.32" LT	2° 04′ 06.38"	411.50′	817.02′	2,770.00′	N 29° 08′ 23.48" E	N 12° 14′ 25.16" E	390+74.87	386+63.37	394+80.39
	FR_286S_EB2_24	0° 24′ 30.29" LT	2° 04′ 06.38"	9.87′	19.75′	2,770.00′	N 12° 14′ 25.16" E	N 11° 49′ 54.87" E	394+90.26	394+80.39	395+00.13
	FR_286S_EB2_25	1° 52′ 44.21" LT	2° 04′ 06.38"	45.42′	90.84′	2,770.00′	N 11° 49′ 54.87" E	N 9° 57′ 10.65" E	395+45.56	395+00.13	395+90.97
	FR_286S_EB2_26	11° 21′ 28.42" LT	2° 04′ 06.38"	275.45′	549.10′	2,770.00′	N 9° 57′ 10.65" E	N 1° 24′ 17.76" W	398+66.43	395+90.97	401+40.08
FR_286S_WB2	FR_286S_WB2_31	31° 44′ 23.32" LT	3° 02′ 45.70"	534.75′	1,042.01′	1,881.00′	N 35° 44′ 02.69" E	N 3° 59′ 39.37" E	385+85.93	380+51.18	390+93.19
	FR_286S_WB2_32	0° 10′ 06.84" LT	0° 57′ 17.75"	8.83′	17.65′	6,000.00′	N 3° 59′ 39.37" E	N 3° 49′ 32.53" E	391+02.01	390+93.19	391+10.84
	FR_286S_WB2_33	3° 59′ 51.13" LT	0° 57′ 17.75"	209.40′	418.62′	6,000.00′	N 3° 49′ 32.53" E	N 0° 10′ 18.60" W	393+20.23	391+10.84	395+29.46

LP 286S MAINLANE PROFILE
SEE SUPPLEMENTAL PROFILE ROLLS FOR OTHER PROFILES



Plotted on: 7/9/2020
Scale: 1:100
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Pen Table: 108556 LOOP 286.tbl