



Metroplex Freight Mobility Study

Summary of Mobility Solutions

Parker and Palo Pinto Counties

August 2020

Texas Department of Transportation – Rail Division

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Summary of Mobility Solutions

As part of the Metroplex Freight Mobility Study, a summary of the solutions types reviewed at select highway-railroad at-grade crossings follows for Parker and Palo Pinto Counties.

Solutions are presented by county, then municipality, and then by crossing name (all in alphabetical order). If there is a corridor solution within a municipality (i.e., a grouping of crossings) then those appear first. Crossings that are in or border two municipalities appear in only one municipality but are referenced in the other. The types of solutions considered include:

- Grade separations
- Transportation network solutions (i.e., a combination of one or more grade separations and/or one or more other solutions)
- Intelligent Transportation Systems (ITS)
- Continued coordination
- Monitoring
- Closures
- Planned or programmed improvements as outlined in another design, plan, or study.

For each highway-railroad at-grade crossing selected for review, an existing conditions aerial image that illustrates surrounding characteristics and a table of crossing data is included. However, for each highway-railroad at-grade crossing selected for review that is part of a corridor (i.e., a grouping of crossings), an existing conditions aerial image that illustrates the characteristics of the entire corridor is included. For corridors, crossing data is included in the discussion. A discussion of any relevant improvements is included along with concept drawings, as relevant.

There are 21 highway-railroad crossings in Parker County. There are two (2) proposed crossings known at this time. There are 16 highway-railroad crossings in Palo Pinto County.

Grade Separations

Based upon a review of TRIMS data in Parker County, there is one crossing with a high Priority Index; however, this crossing has an average daily traffic of less than 10,000 vehicles. There are two (2) proposed crossings reviewed as candidates for potential grade separations, both of which are already planned/programmed. There are two crossings in Palo Pinto County with a moderate Priority Index and an average daily traffic of less than 10,000 vehicles.

Other Solutions

Each crossing with a high or moderate Priority Index has an average daily traffic of less than 10,000 vehicles, which should be monitored.

Mobility Solutions Considered

In the table that follows, the following letters and symbols mean the following:

- GS = Grade Separation
- XB = Crossbucks
- SS = Stop Signs
- FLG = Flashing Lights and Gates
- UP = Union Pacific Railroad
- = High TxDOT Priority Index
- = Moderate TxDOT Priority Index
- P = A mobility solution is planned, programmed or under construction
- M = Monitor this crossing

Table 1: Mobility Solutions Considered – Parker County

Crossing Data								Screening Information					Solutions		
DOT #	Street Name	Warning Device	Operator	Subdivision	Mile Post	AA DT	Trains per Day	Priority Index	Previous Concept	Stakeholder Input	Caller Complaint(s)	Development	Train Volume Growth	Grade Separation	Other
839362H	CR 3003	FLG	UP	Baird	293.95	530	20						•		
839359A	FM 113	FLG	UP	Baird	290.86	3,400	20						•		
839358T	COOL JCT RD	FLG	UP	Baird	289.98	85	20						•		
839356E	DOSS RD	FLG	UP	Baird	287.36	92	22	●					•		M
839355X	NEWBERRY RD	FLG	UP	Baird	286.51	132	20						•		
839354R	SH 180	GS	UP	Baird	286.15	13,500	10						•		
839352C	CLARK LAKE RD	FLG	UP	Baird	284.39	10,704	20						•		
839350N	CR/LAMBERT	FLG	UP	Baird	283.24	85	20						•		
839345S	OLD GARNER RD	FLG	UP	Baird	279.98	620	20						•		
440582V	WILLIAMSON MRL HWY	GS	UP	Baird	278.25	<Null>	0						•		
839242S	BRAZOS	GS	UP	Baird	276.95	1,350	10						•		
839241K	ALAMO ST	XB	UP	Baird	276.84	0	20						•		
839240D	FM 51	FLG	UP	Baird	276.64	16,300	20						•		
839239J	ELM ST	FLG	UP	Baird	276.53	4,974	20						•		
920215N	US 180	GS	UP	Baird	276.17	0	0						•		
924290N	JACK BORDEN WAY	GS	UP	Baird	275.75		0						•		
Proposed	IH 20 WB FRNTG RD		UP	Baird					•	•			•		P
839235G	IH 20	GS	UP	Baird	273.69	<Null>	0						•		
Proposed	IH 20 EB FRNTG RD		UP	Baird					•	•			•		P
839231E	CENTER POINT RD	FLG	UP	Baird	271.63	695	20						•		
839221Y	FM 5	FLG	UP	Baird	268.87	570	20						•		
440627A	FM 1187 SB	FLG	UP	Baird	264.05	15,600	30				1		•		
839214N	FM 1187 NB	FLG	UP	Baird	263.94	15,600	20				1		•		

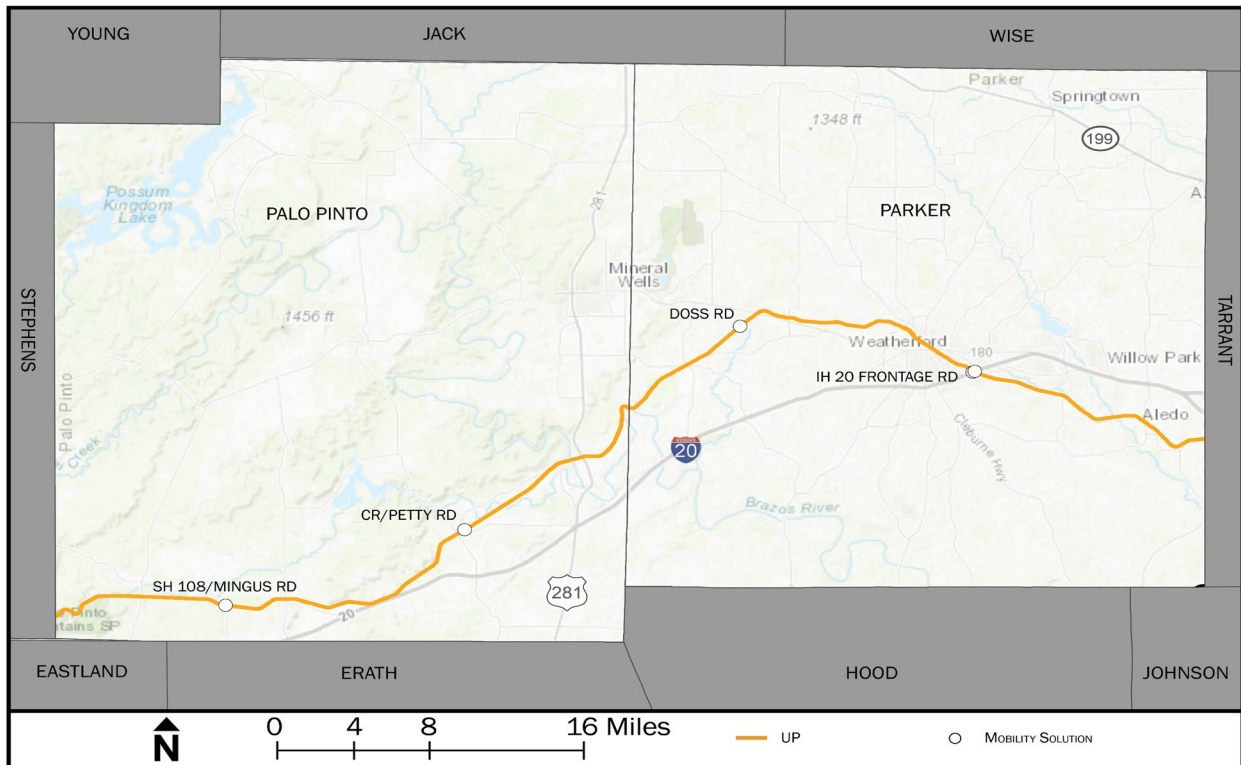
Source: TranSystems and TRIMS

Table 2: Mobility Solutions Considered – Palo Pinto County

Crossing Data								Screening Information					Solutions		
DOT #	Street Name	Warning Device	Operator	Subdivision	Mile Post	AADT	Trains per Day	Priority Index	Previous Concept	Stakeholder Input	Caller Complaint(s)	Development	Train Volume Growth	Grade Separation	Other
839244F	SH 16/GRANT ST	FLG	UP	Baird	326.37	1,500	20								
839243Y	LINCOLN ST	FLG	UP	Baird	326.29	503	20								
839393G	WASHINGTON	FLG	UP	Baird	326.08	697	20								
839390L	SH 108 - MINGUS RD	FLG	UP	Baird	321.86	940	20	○							M
839388K	FM 919/LAMAR	FLG	UP	Baird	318.51	890	20								
839387D	JEFFERSON ST	FLG	UP	Baird	318.01	96	20								
839385P	COALVILLE RD	GS	UP	Baird	316.55	152	10								
839382U	PANAMA RD	XB	UP	Baird	312.52	12	20								
839381M	PANAMA RD	GS	UP	Baird	310.97	10	10								
839379L	PANAMA RD	XB	UP	Baird	308.85	20	20								
839378E	FM 4/CROCKETT	FLG	UP	Baird	307.53	1,300	20								
839377X	CR/PETTY RD	SS	UP	Baird	307.09	103	20	○							M
839371G	ALLEN LN	XB	UP	Baird	302.09	50	20								
839370A	SH 0129	FLG	UP	Baird	300.72	307	20								
839369F	US 0281	GS	UP	Baird	299.56	<Null>	10								
839368Y	Dobbs Valley RD	FLG	UP	Baird	299.27	35	20								

Source: TranSystems and TRIMS

Figure 1: Overview and Detail Map



Source: TranSystems and TRIMS.

Parker County, Weatherford

Interstate Highway 20 Frontage Roads: Westbound & Eastbound



Source: TranSystems

Two new crossings of the Union Pacific Railroad (UP) Baird Subdivision are under consideration adjacent to Interstate Highway 20. Each crossing would be an Interstate Highway 20 frontage (or service) road, which TxDOT plans to construct along this portion of Interstate Highway 20. There are 20 trains per day along this portion of the UP Baird Subdivision with additional train volume anticipated in the future associated with increasing freight volumes. Stakeholders identified the Interstate Highway 20 Frontage Roads as a location to consider a grade separation. The *2019 – 2022 Statewide Transportation Improvement Program* (TxDOT, FHWA, FTA 2018) calls for and funds grade separations at each of these proposed crossings as part of a project to construct frontage/service roads between FM 2552 (Clear Lake Road / Santa Fe Drive) about one-half mile to the west and Bankhead Drive about one-half mile to the east. The *2019 – 2022 Statewide Transportation Improvement Program* (CSJ 0314-07-061) identifies a total project cost of \$25,088,587, including \$1,500,000 for preliminary engineering, \$1,150,000 for right-of-way purchases, \$21,000,000 for construction, \$1,146,191 for construction engineering, and \$292,396 for contingency.

Crossings to Monitor

The crossings in Table 3 and 4 have a high or moderate Priority Index but an average daily traffic of less than 10,000 vehicles. Going forward, the Priority Index and the average daily traffic at these crossings should be monitored. If the Priority Index decreases over an extended period (e.g., five or more years), then no action would be necessary. If the Priority Index remains high or moderate over an extended period (e.g., five or more years) but the average daily traffic remains less than 10,000 vehicles then other crossing improvements could be considered. If the Priority Index remains high or moderate over an extended period (e.g., five or more years) and the average daily traffic increases to or greater than 10,000 vehicles then a grade separation could be considered.

Table 3: Crossings to Monitor – Parker County

Municipality	U.S. DOT #	Street Name	Railroad Subdivision	AADT
Millsap	839356E	Doss Road	UP Baird	92

Source: TranSystems and TRIMS

Table 4: Crossings to Monitor – Palo Pinto County

Municipality	U.S. DOT #	Street Name	Railroad Subdivision	AADT
Mingus	839390L	SH 108 - MINGUS RD	UP Baird	940
Santo	839377X	CR/PETTY RD	UP Baird	103

Source: TranSystems and TRIMS