

Project Update for

**Downtown Quiet Zone Improvements
From Peach Street to 13th Street**



CITY OF WACO

December 21, 2021

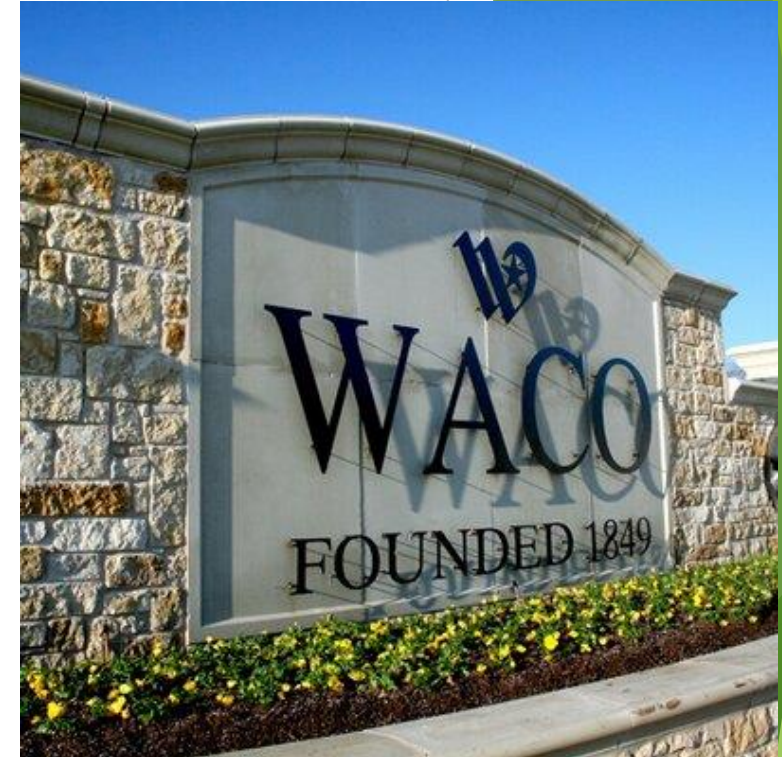
Agenda

- ▶ Project Background/History
- ▶ Quiet Zone Implementation
- ▶ Project Location
- ▶ Progress to Date
- ▶ Proposed Improvements
- ▶ Cost
- ▶ Schedule Overview
- ▶ Questions



Project Background/History

- ▶ Project Objective - increase safety to implement a Quiet Zone through downtown Waco from Peach Street to 13th Street.
- ▶ Quiet Zone Definition - A quiet zone is a section that contains one or more consecutive at-grade rail crossings at which locomotive horns are not routinely sounded when trains are approaching the crossings.
- ▶ An initial diagnostic for the same project limits occurred in 2017 and with planning efforts run internally.
- ▶ Kimley-Horn requested to help with the planning and design stages end of 2020 to assist with implementation of the Quiet Zone.



Quiet Zone Implementation

- ▶ Re-Diagnostic Request
- ▶ Role & Responsibilities
 - ▶ Waco - Initiation, Engineering, & Funding
 - ▶ Union Pacific Railroad - Signal Design & Construction
 - ▶ Federal Railroad Administration - Guidance & Approval



Planning Stage

- Determine Quiet Zone Risk Index (QZRI)
- Diagnostic Meeting
- Identify Supplemental Safety Measures (SSMs)



Design & Notice of Intent (NOI)

- City of Waco
- Union Pacific Railroad



Construction & Maintenance Agreement (C&M)



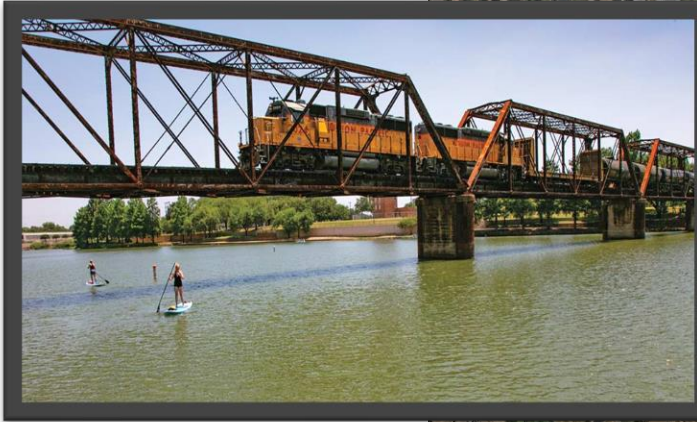
Installation

- City of Waco
- Union Pacific Railroad



Notice of Establishment (NOE)

Project Location



Progress to Date

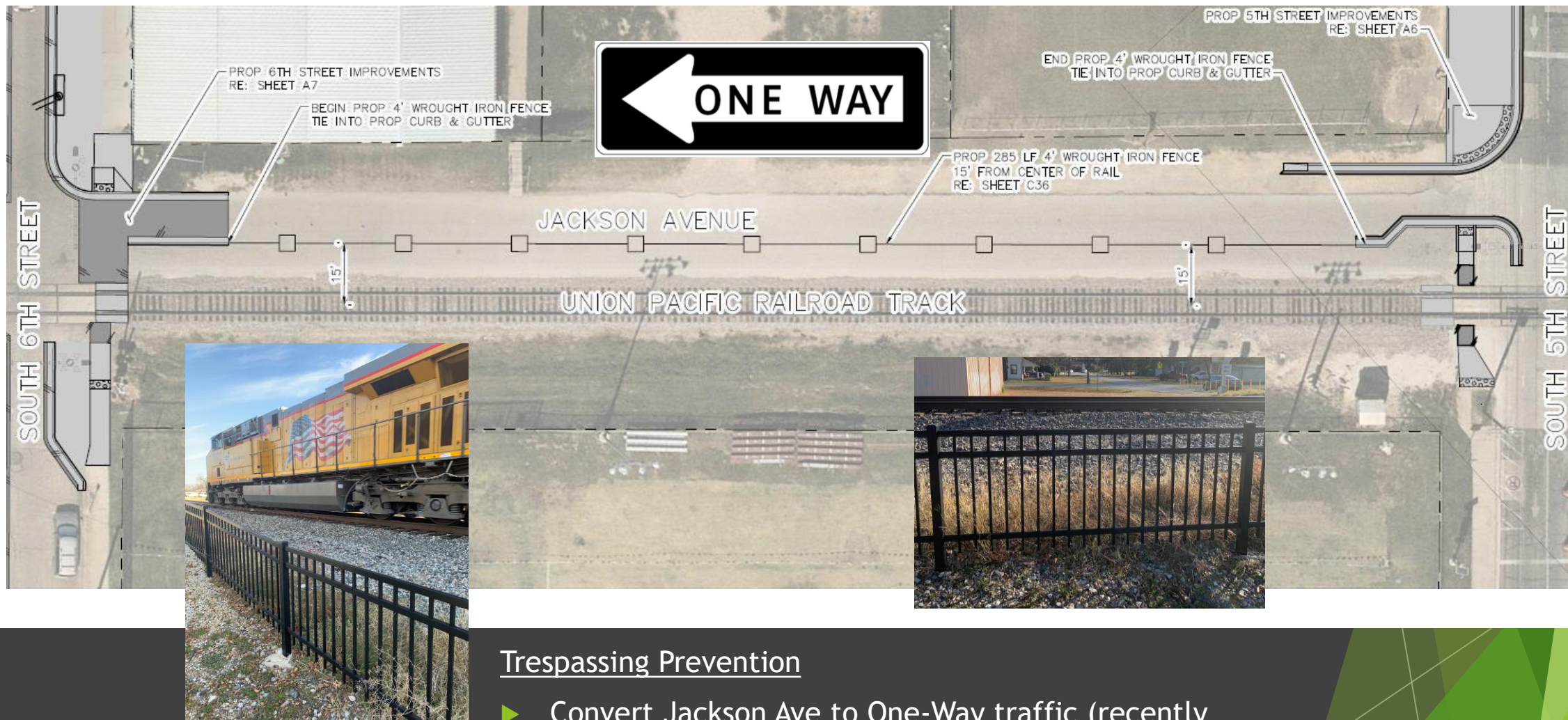
- ▶ Re-Diagnostic & Planning Stage - 100% Complete
 - ▶ Re-Diagnostic with UPRR & FRA - December 15-16, 2020
 - ▶ FRA follow-up with pedestrian trespassing concern - Jan '21
 - ▶ Re-Diagnostic NOI attachment review - Feb '21 to March '21
 - ▶ Address Re-Diagnostic Comments - April '21
 - ▶ Post Diagnostic Meeting - May '21
 - ▶ NOI attachment revisions - Sep '21
- ▶ City Improvements - 40% Complete
 - ▶ Design Contract NTP - May '21
 - ▶ Data Collection (Survey, Record Drawings, etc.) - July '21
 - ▶ Preliminary Design Submittal - Sep '21
 - ▶ Prelim Design Review - Oct '21 to Nov'21
 - ▶ Address Plan Comments - Nov '21 to Present
- ▶ Union Pacific (UP) Improvements - 15% Complete
 - ▶ Updated Design & Estimate - started Oct '21



City Work

- ## Union Pacific (UP) Work

- [illegible]



Proposed Improvements

Trespassing Prevention

- ▶ Convert Jackson Ave to One-Way traffic (recently implemented)
- ▶ Install 4' tall metal fencing between crossing locations from University Parks Drive to 8th Street
- ▶ Install swing gate and mountable curb for Union Pacific (UP) access to right-of-way

Improvement Construction Costs

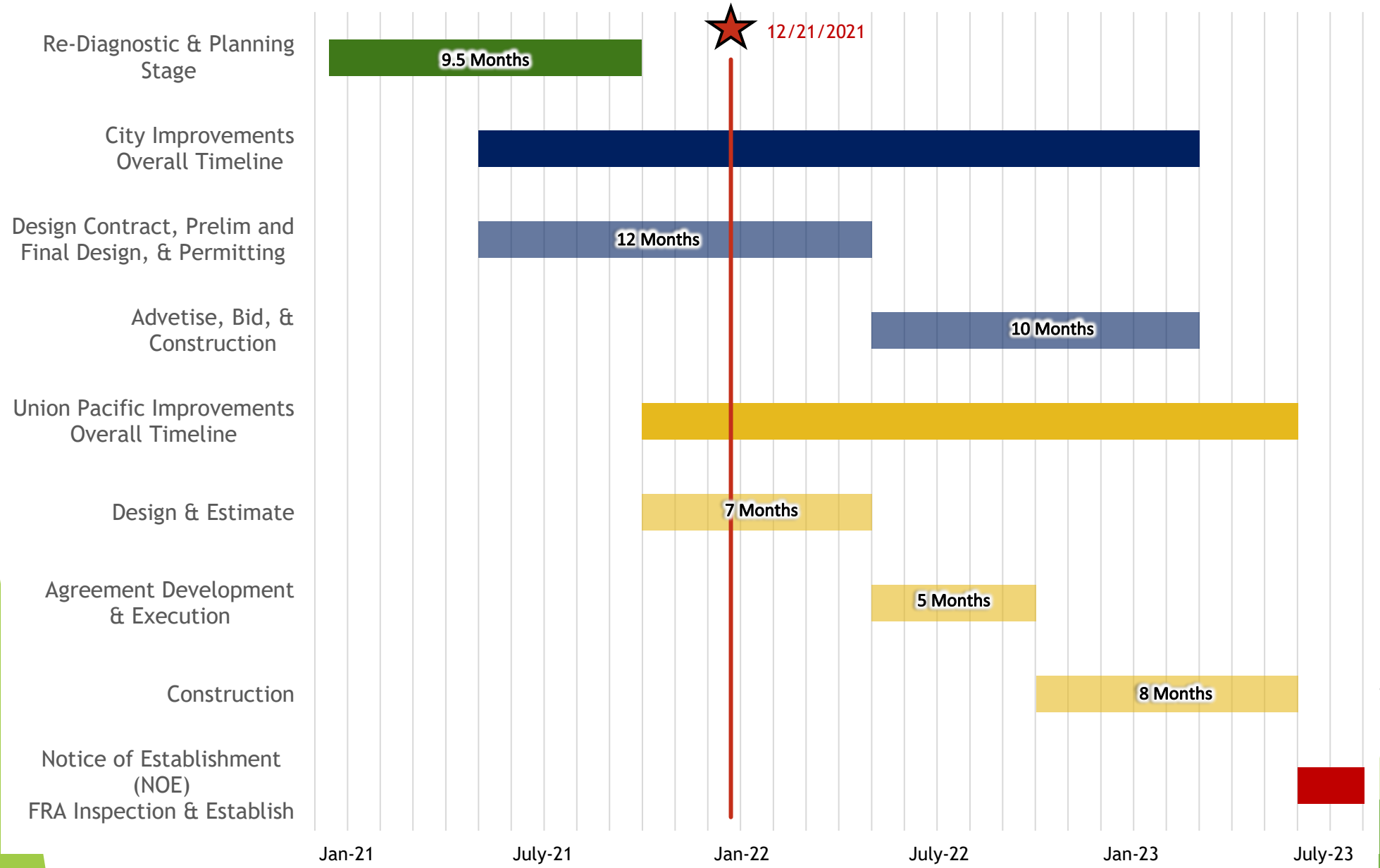
Crossing Location	City Construction Cost	UPRR Signal Construction Cost	Total
Peach Street	\$ 30,000	\$ 0	\$ 30,000
University Parks Dr	\$45,000	\$ 475,000	\$ 490,000
2 nd Street	\$ 145,000	\$ 450,000	\$ 595,000
3 rd Street	\$ 195,000	\$ 470,000	\$ 665,000
4 th Street	\$100,000	\$ 500,000	\$ 600,000
5 th Street	\$ 80,000	\$ 340,000	\$ 350,000
6 th Street	\$ 125,000	\$ 380,000	\$ 505,000
8 th Street	\$ 145,000	\$ 465,000	\$ 610,000
11 th Street	\$ 120,000	\$ 215,000	\$ 335,000
13 th Street	\$ 115,000	\$ 30,000	\$ 145,000
Jackson Ave Fencing	\$ 150,000	\$ 0	\$ 150,000
Maintenance Cost	\$ 0	\$ 125,000	\$ 125,000
TOTAL*	\$ 1,250,000	\$ 3,450,000	\$4,700,000

*Opinion of Probable Construction Cost - Basis for Cost Projection at Preliminary Design Stage

Total Project Cost Summary

Project Task	Estimated Cost
City Design Costs	\$ 190,000
Union Pacific Design Costs	\$ 210,000
Construction & Agreement Cost	\$ 4,700,000
TOTAL PROJECT BUDGET ESTIMATE	\$5,100,000

Schedule Overview



Questions?

