



# Rider 49 - Grade Separations Project Study

Lockwood Drive south of Harrisburg Boulevard  
(DOT #859523F) and north of Clinton Drive  
(DOT #755646C)

December 2024

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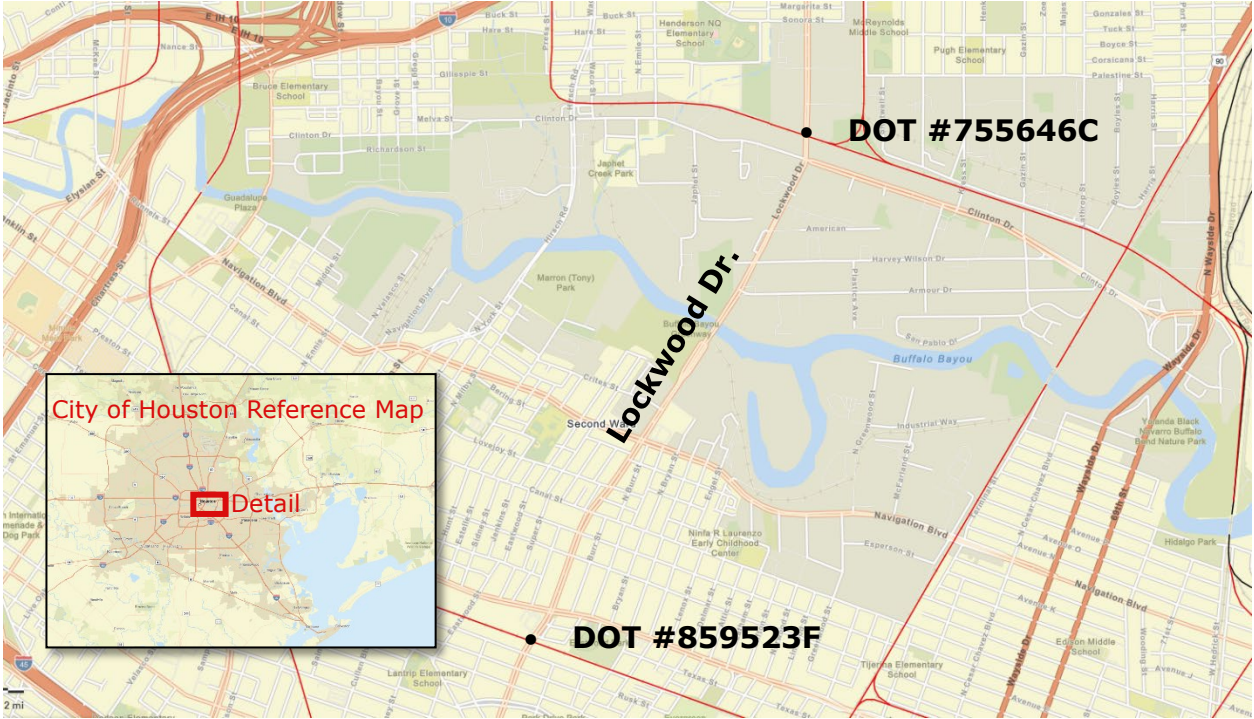
# Executive Summary

The Texas Department of Transportation (TxDOT) was tasked to conduct a study to determine the feasibility, costs, and benefits of constructing roadway-railroad grade separation at two crossings in the vicinity of Lockwood Drive in Houston:

- Lockwood Drive at Union Pacific Railroad (UPRR) Galveston Subdivision (south of Harrisburg Boulevard) – DOT #859523F
- Lockwood Drive at UPRR Bell Line (north of Clinton Drive) – DOT #755646C

The possibility for a Lockwood Drive/UPRR Galveston Subdivision grade separation was thoroughly reviewed by METRO as part of its METRONext University Corridor Bus Rapid Transit (BRT) line. A grade separation is feasible at this location; however, stakeholder and public input identified a preference for a roadway underpass under the railroad, which adds significant cost and drainage challenges for the grade separation.

A review was conducted for a possible roadway overpass for a Lockwood Drive/UPRR Bell Line grade separation. Some different options were explored, with each option having different combinations of impacts related to access to Clinton Drive, driveway access, and potential right-of-way (ROW) acquisition. It was determined that a grade separation over the railroad but ending north of Clinton Drive was not feasible, but a grade separation over both the railroad and Clinton Drive was feasible with additional impacts.



# Lockwood Drive at UPRR Galveston Subdivision

The grade crossing at Lockwood Drive at the UPRR Galveston Subdivision (DOT #859523F) is located south of Harrisburg Boulevard. The following subsections detail existing conditions at the crossing, previous work to date through the METRONext University Corridor BRT efforts, and findings from that effort for a possible grade separation at the crossing.

## Existing Conditions

Located in the Eastwood neighborhood, the grade crossing at Lockwood Drive and the UPRR Galveston Subdivision (Figure 1) posts a roadway speed limit of 35 miles per hour for the four-lane, median-separated, principal arterial. The Greater Eastwood neighborhood was identified by the Texas Historical Commission as a National Register of Historic Places eligible historic district. The district also features an esplanade of trees along Lockwood, considered a neighborhood feature by the Eastwood Civic Association (ECA).

Figure 1: Grade Crossing at Lockwood Drive/UPRR Galveston Subdivision (Google Maps)



General train volumes per day for the single-track railroad are included within the Federal Railroad Administration’s (FRA) 2019 Crossing Inventory Report and Train Count Database, which are summarized in Table 1. See **Appendix B** for the FRA Crossing Inventory Form for this crossing.

Table 1: Lockwood Drive/UPRR Galveston Subdivision 2019 Train Volumes (FRA)

Name	Total Number
Total Day Thru Trains 6am-6pm	2
Total Night Thru Train 6pm-6am	2
Total Switching Trains	16
Number of Tracks	1
Typical Train Speed of Crossing (Miles Per Hour)	10 to 20

FRA lists public roadway information within its Crossing Inventory database. The data shown in Table 2 shows the existing traffic conditions of Lockwood Drive, reported by the state agency and the U.S. Department of Transportation (USDOT). The FRA Crossing Inventory Form is included in **Appendix B**.

Table 2: Lockwood Drive 2019 Crossing Roadway Information (FRA)

Functional Classification of Roadway	Annual Average Daily Truck Traffic (2021)	Estimated Percentage of Traffic as Trucks
Urban, Other Principal Arterial	9,362	3

## Previous Work – METRONext University Corridor BRT

METRO, the regional transit authority, serves the project boundary and its facilities. In 2019, the transit authority received voter approval for the METRONext Bond Referendum program. Part of the projects selected under the new referendum include BRT facilities. The largest proposed BRT guideway in the nation, the University Corridor BRT, was selected to traverse Lockwood Drive between Spur 5 and Tidwell Drive. The fixed guideway would send BRT service from one side of the railroad grade crossing to another in a transit system.

Initially, the planning phase of the BRT line incorporated a roadway overpass in its designs, allowing vehicle traffic to travel above the UPRR railroad. As part of METRO’s public engagement with Eastwood residents, the Eastwood Civic Association, and area stakeholders, the design at the Lockwood/UPRR Galveston Subdivision underwent an Overpass and Underpass Feasibility Analysis in 2023. Design challenges identified by METRO in the Underpass Feasibility Analysis include:

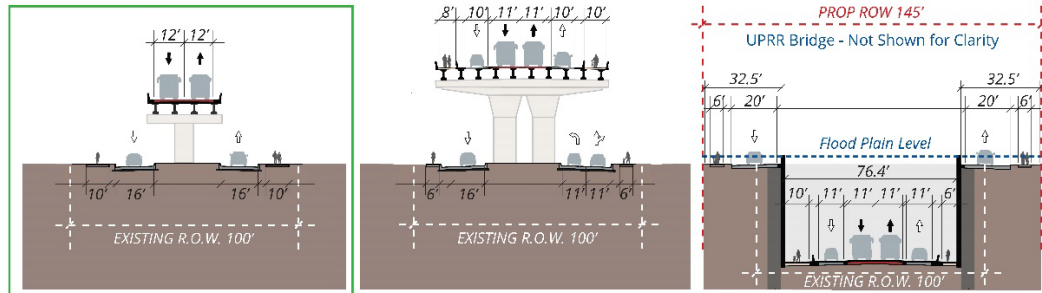
- 100-Year flood plain risks south of the UPRR,
- Substantial property acquisition/right-of-way impacts along Lockwood Drive, and
- Drainage challenges associated with significant rain event and complex infrastructure system requirements.

Figure 2 provides a summary of reviewed options, including the overpass and underpass options for both BRT and general traffic and a BRT-only grade-separated option. It is important to note that all options utilize at-grade crossings UPRR track to maintain local connections.

Figure 2: Overpass and Underpass Alternative Analysis (METRO)

**OVERPASS VS UNDERPASS ALTERNATIVE ANALYSIS**

UPRR CROSSING AT LOCKWOOD DR. SOUTH OF HARRISBURG BLVD.



**OVER: Dedicated Transit Lanes Only (Current Design)**

**OVER: Dedicated Transit Lanes + General Purpose Lanes + Sidepath/Sidewalk**

**UNDER: Dedicated Transit Lanes + General Purpose Lanes + Sidepath/Sidewalk**

<b>RIGHT OF WAY</b>	10 partially-impacted parcels / 2,191 SF of R.O.W. needed (impacted parcels mainly located at retained fill segments)	23 partially-impacted parcels and 22 fully-impacted parcels / 193,769 SF of R.O.W. needed (impacted parcels mainly located at retained fill segments)	20 partially-impacted parcels and 14 fully-impacted parcels / 189,895 SF of R.O.W. needed
<b>DRAINAGE</b>	Drainage improvements compliant with standards. Minor utilities in conflict	Drainage improvements compliant with standards. Minor utilities in conflict	Large pump station needed. Underpass and adjacent properties may flood in large rain events. Lowest point in drainage area
<b>ACCESSIBILITY</b>	At-grade pedestrian and bicycle paths	Elevated and at-grade pedestrian and bicycle path options	Depressed pedestrian and bicycle paths could be affected by high water events. At-grade paths crossing UPRR will be eliminated
<b>TRAFFIC</b>	Similar to today	Less congestion at intersection	Busy traffic with general purpose lanes and dedicated transit lanes. Steep slope may pose issues for large vehicles
<b>SAFETY</b>	Safe bridge overpasses the at-grade railroad	Safe bridge overpasses the at-grade railroad	Safe bridge. Vehicles underpass the at-grade railroad, but flooding during large rain events may cut off access and there is no frontage road crossing over UPRR
<b>AESTHETICS</b>	Bridge impacting aerial visibility	Bridge impacting aerial visibility	Underpass not attractive but no aerial impacts
<b>COST</b>	\$24 million	\$61 million (Requires additional funding source)	\$99 million (Requires additional funding source)

More Impact Neutral Less Impact

Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.



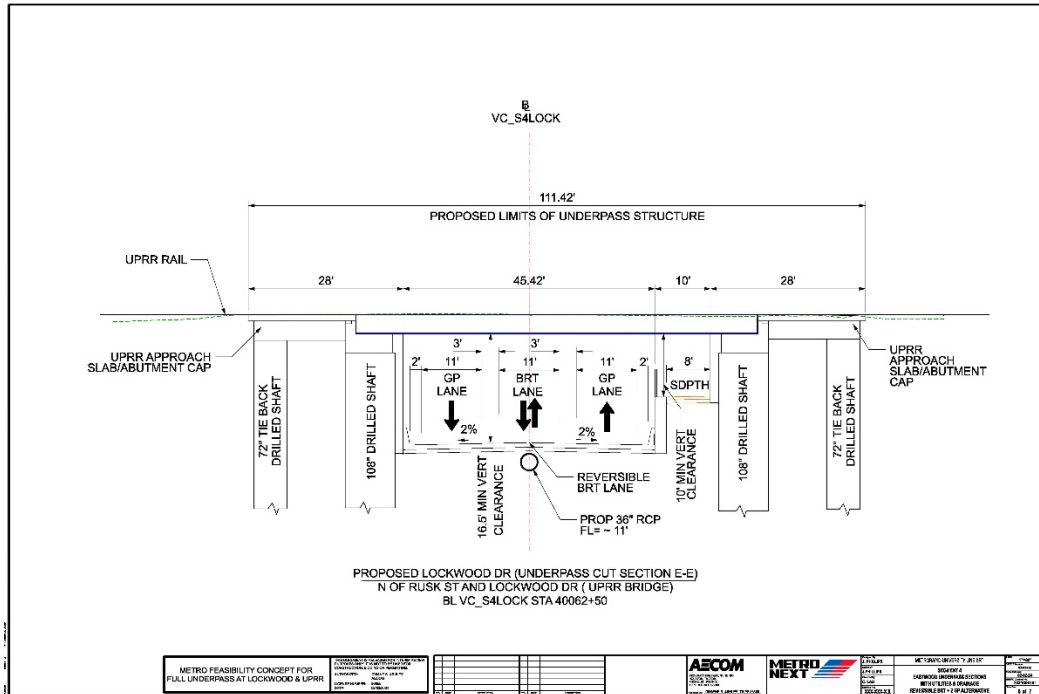
M&I R/O is in close coordination with 1xDO1. A study on 10 rail crossings by 1xDO1 is underway.

NOT TO SCALE  
Public Meeting 2023 (Q1)

Further public engagement and communication with stakeholders saw justification to change the design from an overpass to an alternative design. The Eastwood Civic Association (ECA) provided a detailed conditional approval letter for BRT guideway along the UPRR railroad citing several design changes, including a desire for an underpass similar in size and scale to the facility at Polk Street and Milby Street, multi-use paths for bike/pedestrian travel, and protection of the esplanade. Several alternatives were discussed, and a BRT-only underpass was chosen to alleviate crossing queues.

In the fall of 2023, METRO began looking at the feasibility of taking all traffic into the underpass rather than the BRT-only lanes. This was based on stakeholder concerns that general purpose traffic being at-grade would not fully alleviate the challenges at the crossing. The response from METRO was to evaluate taking all traffic lanes to below grade. The full underpass contains two general purpose lanes and one reversible BRT lane under the UPRR track. Figure 3 shows a conceptual design image of the full underpass.

Figure 3: Proposed Full Underpass Conceptual Design at UPRR Galveston Subdivision (METRO)



The underpass would be protected from the 100-year sheet flow Water Surface Elevation (WSEL) on three sides to meet drainage requirements. Additionally, needs such as a mile-long force main outfall and a pump station with multiple pumps would be required for the full underpass. In its analysis, METRO also provided evaluation of traffic and ROW impacts, current and future utility impacts, constructability challenges and cost for the project. See **Appendix A** for a more detailed typical section and an approach section for this underpass option.

METRO designed a full underpass at Lockwood Drive/UPRR Galveston Subdivision to a 30-percent completion. This level of design advances a preferred alternative for environmental clearances and reasonable estimates of infrastructure needs and costs. The cost estimate was \$166M in 2023 dollars. The design change resulted in an increase of \$5 million from the 30-percent BRT-only underpass.

## Summary of Findings

Benefits of a roadway-railroad grade separation at this location would include travel time savings, increased safety and reduction of crashes, and environmental benefits from a reduction of emissions. Based on previous work from METRO on its University Corridor BRT line a roadway-railroad grade separation is feasible at the Lockwood Drive/UPRR Galveston Subdivision crossing. Public and stakeholder feedback preferred a roadway underpass at the crossing, but this option has challenges and additional costs to alleviate those challenges.

## Lockwood Drive at UPRR Bell Line

The grade crossing at Lockwood Drive at the UPRR Bell Line (DOT #755646C) is located north of Clinton Drive. The following subsections detail existing conditions at the crossing, previous work to date through the METRONext University Corridor BRT efforts, additional feasibility review, and findings from those efforts for a possible grade separation at the crossing.

### Existing Conditions

The grade crossing at Lockwood Drive and the UPRR Bell Line posts a roadway speed limit of 35 miles per hour for the four-lane, median-separated, principal arterial. Figure 4 details the existing crossing details.

*Figure 4: Grade Crossing at Lockwood Drive/UPRR Bell Line (Google Maps)*



General train volumes per day for the single-track railroad are included within the Federal Railroad Administration's (FRA) 2022 Crossing Inventory Report and Train Count Database, which are summarized in Table 3. See **Appendix B** for the FRA Crossing Inventory Form for this crossing.



Table 3: Lockwood Drive/UPRR Bell Line 2022 Train Volumes (FRA)

Name	Total Number
Total Day Thru Trains 6am-6pm	0
Total Night Thru Train 6pm-6am	0
Total Switching Trains	3
Number of Tracks	1
Typical Train Speed of Crossing (Miles Per Hour)	5 to 10

FRA lists public roadway information within its Crossing Inventory database. The data shown in Table 4 shows the existing traffic conditions of Lockwood Drive, reported by the state agency and U.S. Department of Transportation (USDOT). The FRA Crossing Inventory Form is included in **Appendix B**.

Table 4: Lockwood Drive 2019 Crossing Roadway Information (FRA)

Functional Classification of Roadway	Annual Average Daily Truck Traffic (2021)	Estimated Percentage of Traffic as Trucks
Urban, Other Principal Arterial	14,521	3

## Previous Work – METRONext University Corridor BRT

METRO, the regional transit authority, serves the project boundary and its facilities. In 2019, the transit authority received voter approval for the METRONext Bond Referendum program. Part of the projects selected under the new referendum include BRT facilities. The largest proposed BRT guideway in the nation, the University Corridor BRT, was selected to traverse Lockwood Drive between Spur 5 and Tidwell Drive. The fixed guideway would send BRT service from one side of the railroad grade crossing to another in a transit system.

The University Corridor BRT line was proposed to be elevated over Clinton Drive and the UPRR Bell Line while leaving other general purpose lanes at grade. The University Corridor BRT efforts did not review the possibility of a grade separation starting north of Clinton Drive over the UPRR Bell Line.

## Additional Feasibility Review

HNTB Corporation performed a high-level review for a potential grade separation over the UPRR Bell Line to not impact Clinton Drive. Assumptions used to determine potential feasibility of the roadway overpass include:

- The crossing is 330 feet from the track with an assumed UPRR ROW width of 50 feet.

- UPRR requires 23'-4" vertical clearance from top of rail to bottom of bridge structure throughout UPRR ROW. An assumed structure depth of 6 feet would require 29'-4" over the UPRR ROW.
- A 7% maximum vertical grade is assumed based on the 35 mph roadway speed and roadway designation as an urban arterial per the TxDOT *Roadway Design Manual*.

The above assumptions and vertical curve requirements add up to a distance for a possible grade separation from the UPRR Bell Line track to edge of overpass is 717 feet, which would push the grade separation retained section within the Clinton Drive/Lockwood Drive intersection. This particular option would not appear to be feasible due to that impact.

Another reviewed option was a grade separation over both the UPRR Bell Line and Clinton Drive. While the retained fill for this option would not impact Clinton Drive, it would not provide connectivity from Lockwood Drive to Clinton Drive. Further, this would remove access for at least a couple businesses along Lockwood Drive south of Clinton Drive. A probable construction cost in 2024 dollars for this option is estimated at around \$68 million.

A third option incorporating the grade separation over both the UPRR Bell Line and Clinton Drive but providing at-grade access roads for connectivity to Clinton Drive was also considered. However, this option would:

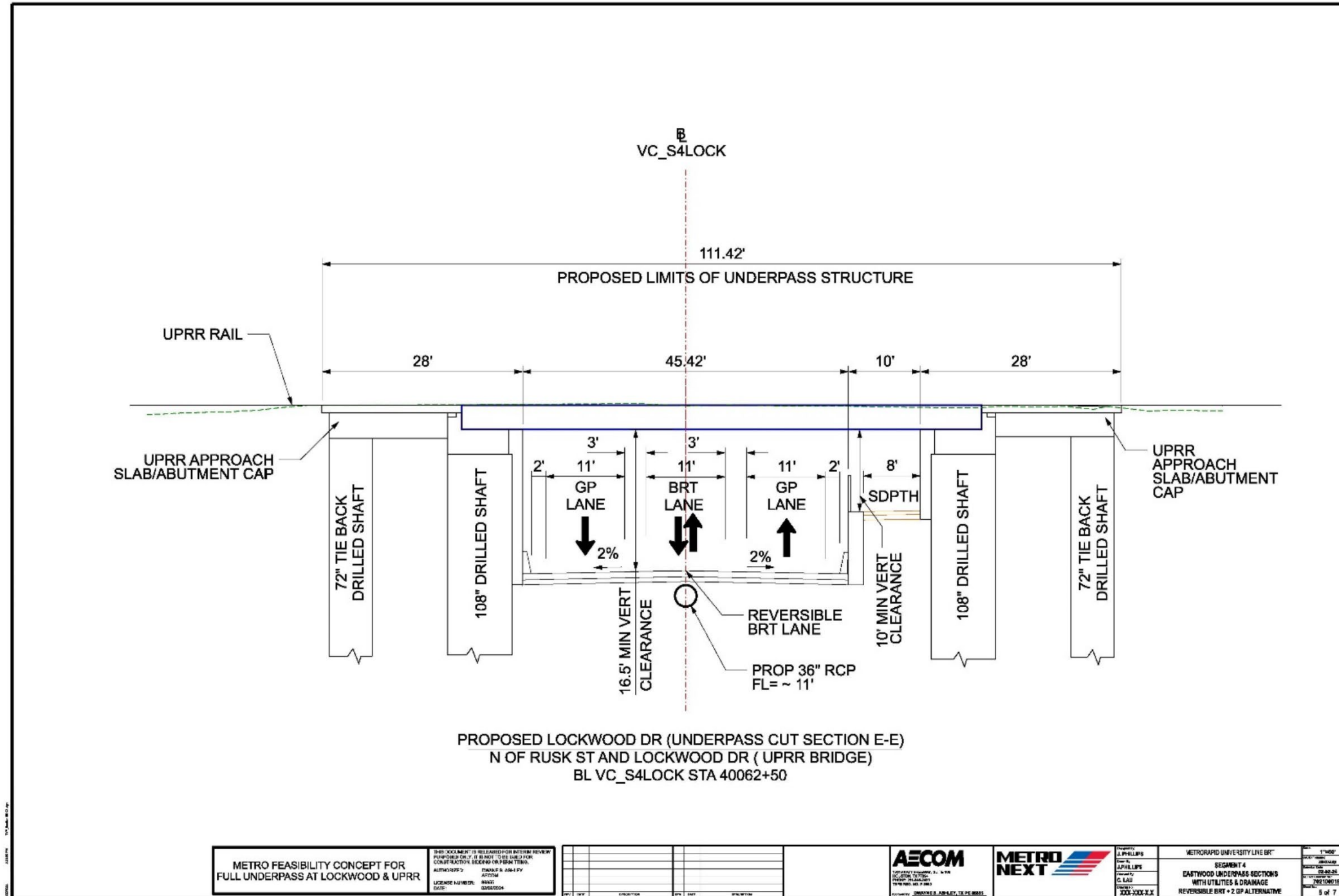
- Require two grade crossings at the UPRR Bell Line (one for each access road) and
- Require ROW acquisition to accommodate the overpass, access roads, and other bike/pedestrian elements.

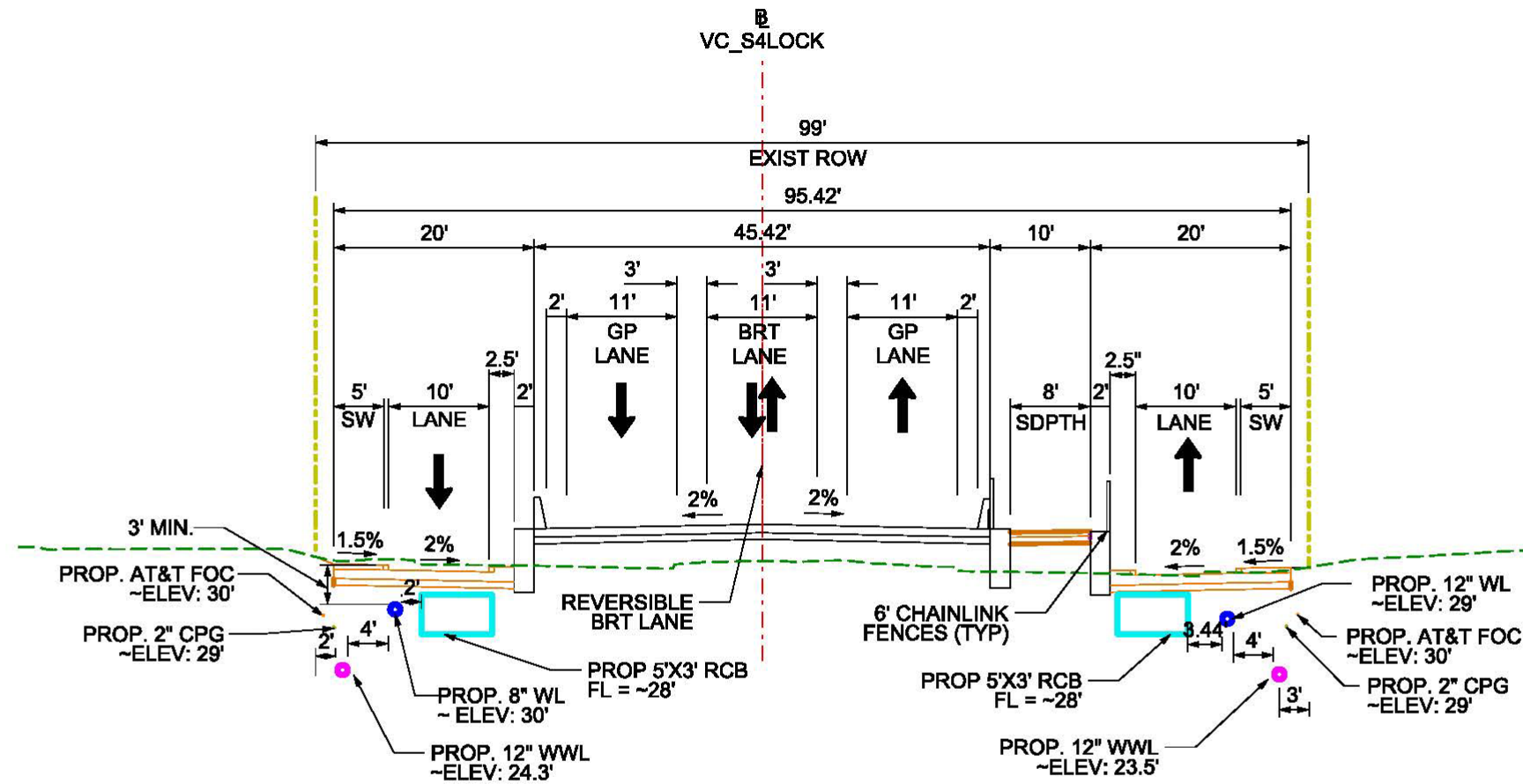
## Summary of Findings

Benefits of a roadway-railroad grade separation at this location would include travel time savings, increased safety and reduction of crashes, and environmental benefits from a reduction of emissions. A possible grade separation (roadway overpass) at the Lockwood Drive/UPRR Bell Line crossing is not feasible if connecting the grade separation prior to the Clinton Drive/Lockwood Drive intersection. A grade separation is feasible over both the UPRR Bell Line and Clinton Drive but has impacts related to roadway/vehicle access, property access, and ROW acquisition based on the option.

# Appendix A: METRONext University Corridor BRT Full Underpass Typical Section

This appendix contains the typical section for the Full Underpass, prepared for the METRONext BRT system. Figure 3 contains a section cut reference from the Appendix.





PROPOSED LOCKWOOD DR (UNDERPASS CUT SECTION B-B)  
 BETWEEN MCKINNEY ST TO WALKER ST ALONG LOCKWOOD  
 BL VC\_S4LOCK STA 40056+50

FOR HORIZONTAL SEPARATIONS BETWEEN WWL AND WL LESS THAN 9',

1. EITHER THE WWL OR WL IS CONSTRUCTED WITH APPROVED RESTRAINED JOINTS IN AN APPROVED CONTINUOUS CASING WITH AT LEAST TWO NOMINAL SIZES LARGER THAN THE CARRIER PIPE
2. EXISTING SS SHALL BE REPLACED WITH LINED DUCTILE IRON PIPE OR PVC PIPE MEETING ASTM SPECIFICATIONS, HAVING A MINIMUM WORKING PRESSURE RATING OF 150 PSI OR GREATER, AND EQUIPPED WITH PRESSURE TYPE JOINTS
3. ALL EXISTING AND PROPOSED MHS ARE TO BE MADE WATERTIGHT AND TESTED FOR NO LEAKAGE.

METRO FEASIBILITY CONCEPT FOR FULL UNDERPASS AT LOCKWOOD & UPRR	THIS DOCUMENT IS PRELIMINARY AND FOR INFORMATION PURPOSES ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING OR PERMITTING.	AUTHORIZED: DANAE S. ANLEY AECOM DATE:	AECOM METRO NEXT	METRO RAIL UNIVERSITY LINE BRT BRIDGEMONT 4 EASTWOOD UNDERPASS SECTION WITH UTILITIES AND DRAINAGE REVERSIBLE BRT + 2 GP ALTERNATIVE	DATE: 11/11/2014 DRAWN BY: J. PHILLIPS CHECKED BY: J. PHILLIPS C.L.M. 11/11/2014	SHEET NO.: 15-02-04 TOTAL SHEETS: 15-02-04 2 of 7
	PROJECT NUMBER: DATE:	AECOM METRO NEXT	METRO RAIL UNIVERSITY LINE BRT BRIDGEMONT 4 EASTWOOD UNDERPASS SECTION WITH UTILITIES AND DRAINAGE REVERSIBLE BRT + 2 GP ALTERNATIVE	DATE: 11/11/2014 DRAWN BY: J. PHILLIPS CHECKED BY: J. PHILLIPS C.L.M. 11/11/2014	SHEET NO.: 15-02-04 TOTAL SHEETS: 15-02-04 2 of 7	

# Appendix B: USDOT FRA Crossing Inventory Forms

Lockwood Drive at UPRR Galveston Subdivision (DOT #859523F)

## U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk \* denotes an optional field.

<b>A. Revision Date</b> (MM/DD/YYYY) 09 / 24 / 2021		<b>B. Reporting Agency</b> <input type="checkbox"/> Railroad <input type="checkbox"/> Transit <input checked="" type="checkbox"/> State <input type="checkbox"/> Other		<b>C. Reason for Update (Select only one)</b> <input checked="" type="checkbox"/> Change in Data <input type="checkbox"/> Re-Open <input type="checkbox"/> New Crossing <input type="checkbox"/> Date Change Only <input type="checkbox"/> Closed <input type="checkbox"/> Operating RR <input type="checkbox"/> No Train Traffic <input type="checkbox"/> Quiet Zone Update <input type="checkbox"/> Admin. Correction			<b>D. DOT Crossing Inventory Number</b> 859523F
<b>Part I: Location and Classification Information</b>							
<b>1. Primary Operating Railroad</b> Union Pacific Railroad Company [UP]			<b>2. State</b> TEXAS		<b>3. County</b> HARRIS		
<b>4. City / Municipality</b> <input checked="" type="checkbox"/> In <input type="checkbox"/> Near HOUSTON		<b>5. Street/Road Name &amp; Block Number</b> LOCKWOOD STREET (Street/Road Name) * (Block Number)			<b>6. Highway Type &amp; No.</b> ST 0000		
<b>7. Do Other Railroads Operate a Separate Track at Crossing?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Specify RR _____				<b>8. Do Other Railroads Operate Over Your Track at Crossing?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Specify RR _____			
<b>9. Railroad Division or Region</b> <input type="checkbox"/> None HOUSTON		<b>10. Railroad Subdivision or District</b> <input type="checkbox"/> None GALVESTON SUB		<b>11. Branch or Line Name</b> <input checked="" type="checkbox"/> None		<b>12. RR Milepost</b> 0001.150 (prefix)   (nnnn.nnn)   (suffix)	
<b>13. Line Segment</b> *		<b>14. Nearest RR Timetable Station</b> *		<b>15. Parent RR (if applicable)</b> <input checked="" type="checkbox"/> N/A		<b>16. Crossing Owner (if applicable)</b> <input type="checkbox"/> N/A UP	
<b>17. Crossing Type</b> <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private		<b>18. Crossing Purpose</b> <input checked="" type="checkbox"/> Highway <input type="checkbox"/> Pathway, Ped. <input type="checkbox"/> Station, Ped.		<b>19. Crossing Position</b> <input checked="" type="checkbox"/> At Grade <input type="checkbox"/> RR Under <input type="checkbox"/> RR Over		<b>20. Public Access (if Private Crossing)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>21. Type of Train</b> <input checked="" type="checkbox"/> Freight <input type="checkbox"/> Intercity Passenger <input type="checkbox"/> Commuter		<input type="checkbox"/> Transit <input type="checkbox"/> Shared Use Transit		<b>22. Average Passenger Train Count Per Day</b> <input type="checkbox"/> Less Than One Per Day <input type="checkbox"/> Number Per Day 0			
<b>23. Type of Land Use</b> <input type="checkbox"/> Open Space <input type="checkbox"/> Farm <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Institutional <input type="checkbox"/> Recreational <input type="checkbox"/> RR Yard							
<b>24. Is there an Adjacent Crossing with a Separate Number?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Provide Crossing Number _____				<b>25. Quiet Zone (FRA provided)</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> 24 Hr <input type="checkbox"/> Partial <input type="checkbox"/> Chicago Excused Date Established _____			
<b>26. HSR Corridor ID</b> <input checked="" type="checkbox"/> N/A		<b>27. Latitude in decimal degrees</b> (WGS84 std: nn.nnnnnnn) 29.7421389		<b>28. Longitude in decimal degrees</b> (WGS84 std: -nnn.nnnnnnn) -95.3296355		<b>29. Lat/Long Source</b> <input checked="" type="checkbox"/> Actual <input type="checkbox"/> Estimated	
<b>30.A. Railroad Use *</b>				<b>31.A. State Use *</b>			
<b>30.B. Railroad Use *</b>				<b>31.B. State Use *</b>			
<b>30.C. Railroad Use *</b>				<b>31.C. State Use *</b> State Phone# updated - date updated: 2018-08-16			
<b>30.D. Railroad Use *</b>				<b>31.D. State Use *</b>			
<b>32.A. Narrative (Railroad Use) *</b>				<b>32.B. Narrative (State Use) *</b>			
<b>33. Emergency Notification Telephone No. (posted)</b> 800-848-8715		<b>34. Railroad Contact (Telephone No.)</b> 402-544-3721		<b>35. State Contact (Telephone No.)</b> 512-416-2635			
<b>Part II: Railroad Information</b>							
<b>1. Estimated Number of Daily Train Movements</b>							
<b>1.A. Total Day Thru Trains (6 AM to 6 PM)</b> 2		<b>1.B. Total Night Thru Trains (6 PM to 6 AM)</b> 2		<b>1.C. Total Switching Trains</b> 16		<b>1.D. Total Transit Trains</b> 0	
<b>1.E. Check if Less Than One Movement Per Day</b> <input type="checkbox"/> How many trains per week? _____							
<b>2. Year of Train Count Data (YYYY)</b> 2019			<b>3. Speed of Train at Crossing</b> 3.A. Maximum Timetable Speed (mph) 20 3.B. Typical Speed Range Over Crossing (mph) From 10 to 20				
<b>4. Type and Count of Tracks</b> Main 1 Siding 0 Yard 0 Transit 0 Industry 0							
<b>5. Train Detection (Main Track only)</b> <input checked="" type="checkbox"/> Constant Warning Time <input type="checkbox"/> Motion Detection <input type="checkbox"/> AFO <input type="checkbox"/> PTC <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> None							
<b>6. Is Track Signaled?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<b>7.A. Event Recorder</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>7.B. Remote Health Monitoring</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

FORM FRA F 6180.71 (Rev. 3/15)

OMB approval expires 01/31/2026

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## U. S. DOT CROSSING INVENTORY FORM

A. Revision Date (MM/DD/YYYY) 09/24/2021		PAGE 2		D. Crossing Inventory Number (7 char.) 859523F	
<b>Part III: Highway or Pathway Traffic Control Device Information</b>					
1. Are there Signs or Signals? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. Types of Passive Traffic Control Devices associated with the Crossing			
2.A. Crossbuck Assemblies (count) 0		2.B. STOP Signs (R1-1) (count) 0	2.C. YIELD Signs (R1-2) (count) 0	2.D. Advance Warning Signs (Check all that apply; include count) <input type="checkbox"/> None <input checked="" type="checkbox"/> W10-1 2 <input type="checkbox"/> W10-3 <input type="checkbox"/> W10-11 <input type="checkbox"/> W10-2 <input type="checkbox"/> W10-4 <input type="checkbox"/> W10-12	
2.E. Low Ground Clearance Sign (W10-5) <input type="checkbox"/> Yes (count _____) <input checked="" type="checkbox"/> No		2.F. Pavement Markings <input checked="" type="checkbox"/> Stop Lines <input type="checkbox"/> Dynamic Envelope <input checked="" type="checkbox"/> RR Xing Symbols <input type="checkbox"/> None		2.G. Channelization Devices/Medians <input checked="" type="checkbox"/> All Approaches <input checked="" type="checkbox"/> Median <input type="checkbox"/> One Approach <input type="checkbox"/> None	2.H. EXEMPT Sign (R15-3) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.J. Other MUTCD Signs <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specify Type _____ Count _____ Specify Type _____ Count _____ Specify Type _____ Count _____		2.K. Private Crossing Signs (if private) <input type="checkbox"/> Yes <input type="checkbox"/> No		2.L. LED Enhanced Signs (List types)	
<b>3. Types of Train Activated Warning Devices at the Grade Crossing (specify count of each device for all that apply)</b>					
3.A. Gate Arms (count) Roadway 2 Pedestrian _____	3.B. Gate Configuration <input checked="" type="checkbox"/> 2 Quad <input type="checkbox"/> Full (Barrier) <input type="checkbox"/> 3 Quad Resistance <input type="checkbox"/> 4 Quad <input type="checkbox"/> Median Gates	3.C. Cantilevered (or Bridged) Flashing Light Structures (count) Over Traffic Lane 2 <input type="checkbox"/> Incandescent Not Over Traffic Lane 0 <input checked="" type="checkbox"/> LED		3.D. Mast Mounted Flashing Lights (count of masts) 4 <input type="checkbox"/> Incandescent <input checked="" type="checkbox"/> LED <input type="checkbox"/> Back Lights Included <input type="checkbox"/> Side Lights Included	3.E. Total Count of Flashing Light Pairs 6
3.F. Installation Date of Current Active Warning Devices: (MM/YYYY) ____/____/____ <input checked="" type="checkbox"/> Not Required		3.G. Wayside Horn <input type="checkbox"/> Yes Installed on (MM/YYYY) ____/____/____ <input checked="" type="checkbox"/> No		3.H. Highway Traffic Signals Controlling Crossing <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.I. Bells (count) 2
3.J. Non-Train Active Warning <input type="checkbox"/> Flagging/Flagman <input type="checkbox"/> Manually Operated Signals <input type="checkbox"/> Watchman <input type="checkbox"/> Floodlighting <input type="checkbox"/> None			3.K. Other Flashing Lights or Warning Devices Count 0 Specify type _____		
4.A. Does nearby Hwy Intersection have Traffic Signals? <input type="checkbox"/> Yes <input type="checkbox"/> No	4.B. Hwy Traffic Signal Interconnection <input type="checkbox"/> Not Interconnected <input type="checkbox"/> For Traffic Signals <input type="checkbox"/> For Warning Signs	4.C. Hwy Traffic Signal Preemption <input type="checkbox"/> Simultaneous <input type="checkbox"/> Advance	5. Highway Traffic Pre-Signals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Storage Distance * _____ Stop Line Distance * _____	6. Highway Monitoring Devices (Check all that apply) <input type="checkbox"/> Yes - Photo/Video Recording <input type="checkbox"/> Yes - Vehicle Presence Detection <input type="checkbox"/> None	
<b>Part IV: Physical Characteristics</b>					
1. Traffic Lanes Crossing Railroad Number of Lanes 4 <input type="checkbox"/> One-way Traffic <input checked="" type="checkbox"/> Two-way Traffic <input type="checkbox"/> Divided Traffic		2. Is Roadway/Pathway Paved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Does Track Run Down a Street? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Is Crossing Illuminated? (Street lights within approx. 50 feet from nearest rail) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Crossing Surface (on Main Track, multiple types allowed) Installation Date * (MM/YYYY) ____/____/____ Width * 10 Length * 104 <input checked="" type="checkbox"/> 1 Timber <input type="checkbox"/> 2 Asphalt <input type="checkbox"/> 3 Asphalt and Timber <input checked="" type="checkbox"/> 4 Concrete <input type="checkbox"/> 5 Concrete and Rubber <input type="checkbox"/> 6 Rubber <input type="checkbox"/> 7 Metal <input type="checkbox"/> 8 Unconsolidated <input type="checkbox"/> 9 Composite <input type="checkbox"/> 10 Other (specify) _____					
6. Intersecting Roadway within 500 feet? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Approximate Distance (feet) _____		7. Smallest Crossing Angle <input type="checkbox"/> 0° - 29° <input type="checkbox"/> 30° - 59° <input checked="" type="checkbox"/> 60° - 90°		8. Is Commercial Power Available? * <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Part V: Public Highway Information</b>					
1. Highway System <input type="checkbox"/> (01) Interstate Highway System <input checked="" type="checkbox"/> (02) Other Nat Hwy System (NHS) <input type="checkbox"/> (03) Federal AID, Not NHS <input type="checkbox"/> (08) Non-Federal Aid		2. Functional Classification of Road at Crossing <input type="checkbox"/> (0) Rural <input checked="" type="checkbox"/> (1) Urban <input type="checkbox"/> (1) Interstate <input type="checkbox"/> (5) Major Collector <input type="checkbox"/> (2) Other Freeways and Expressways <input checked="" type="checkbox"/> (3) Other Principal Arterial <input type="checkbox"/> (6) Minor Collector <input type="checkbox"/> (4) Minor Arterial <input type="checkbox"/> (7) Local		3. Is Crossing on State Highway System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Highway Speed Limit 35 MPH <input checked="" type="checkbox"/> Posted <input type="checkbox"/> Statutory
7. Annual Average Daily Traffic (AADT) Year 2021 AADT 009362		8. Estimated Percent Trucks 03 %	9. Regularly Used by School Buses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Average Number per Day _____		10. Emergency Services Route <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Submission Information - This information is used for administrative purposes and is not available on the public website.</b>					
Submitted by _____ Organization _____ Phone _____ Date _____					
Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.					

Lockwood Drive at UPRR Bell Line (DOT #755646C)

U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION  
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk \* denotes an optional field.

<b>A. Revision Date</b> (MM/DD/YYYY) 10 / 14 / 2022	<b>B. Reporting Agency</b> <input type="checkbox"/> Railroad <input type="checkbox"/> Transit <input checked="" type="checkbox"/> State <input type="checkbox"/> Other	<b>C. Reason for Update (Select only one)</b> <input checked="" type="checkbox"/> Change in Data <input type="checkbox"/> Re-Open <input type="checkbox"/> New Crossing <input type="checkbox"/> Date Change Only <input type="checkbox"/> New <input type="checkbox"/> Closed <input type="checkbox"/> Change in Primary Operating RR <input type="checkbox"/> No Train Traffic <input type="checkbox"/> Quiet Zone Update <input type="checkbox"/> Admin. Correction	<b>D. DOT Crossing Inventory Number</b> 755646C
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Part I: Location and Classification Information

<b>1. Primary Operating Railroad</b> Union Pacific Railroad Company [UP]		<b>2. State</b> TEXAS	<b>3. County</b> HARRIS		
<b>4. City / Municipality</b> <input checked="" type="checkbox"/> In <input type="checkbox"/> Near HOUSTON		<b>5. Street/Road Name &amp; Block Number</b> Lockwood Drive (Street/Road Name)   *(Block Number)		<b>6. Highway Type &amp; No.</b> ST 0000	
<b>7. Do Other Railroads Operate a Separate Track at Crossing?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Specify RR		<b>8. Do Other Railroads Operate Over Your Track at Crossing?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Specify RR			
<b>9. Railroad Division or Region</b> <input type="checkbox"/> None HOUSTON	<b>10. Railroad Subdivision or District</b> <input type="checkbox"/> None Bell Line @Houston	<b>11. Branch or Line Name</b> <input checked="" type="checkbox"/> None		<b>12. RR Milepost</b>   0001.920   (prefix)   (nnn.nnn)   (suffix)	
<b>13. Line Segment</b> *	<b>14. Nearest RR Timetable Station</b> *	<b>15. Parent RR (if applicable)</b> <input checked="" type="checkbox"/> N/A		<b>16. Crossing Owner (if applicable)</b> <input type="checkbox"/> N/A UP	
<b>17. Crossing Type</b> <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private	<b>18. Crossing Purpose</b> <input checked="" type="checkbox"/> Highway <input type="checkbox"/> Pathway, Ped. <input type="checkbox"/> Station, Ped.	<b>19. Crossing Position</b> <input checked="" type="checkbox"/> At Grade <input type="checkbox"/> RR Under <input type="checkbox"/> RR Over	<b>20. Public Access (if Private Crossing)</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>21. Type of Train</b> <input checked="" type="checkbox"/> Freight <input type="checkbox"/> Intercity Passenger <input type="checkbox"/> Commuter <input type="checkbox"/> Transit <input type="checkbox"/> Shared Use Transit <input type="checkbox"/> Tourist/Other	<b>22. Average Passenger Train Count Per Day</b> <input type="checkbox"/> Less Than One Per Day <input type="checkbox"/> Number Per Day 0
<b>23. Type of Land Use</b> <input type="checkbox"/> Open Space <input type="checkbox"/> Farm <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Institutional <input type="checkbox"/> Recreational <input type="checkbox"/> RR Yard					
<b>24. Is there an Adjacent Crossing with a Separate Number?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Provide Crossing Number		<b>25. Quiet Zone (FRA provided)</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> 24 Hr <input type="checkbox"/> Partial <input type="checkbox"/> Chicago Excused Date Established			
<b>26. HSR Corridor ID</b> <input checked="" type="checkbox"/> N/A	<b>27. Latitude in decimal degrees</b> (WGS84 std: nn.nnnnnn) 29.7646921	<b>28. Longitude in decimal degrees</b> (WGS84 std: -nnn.nnnnnn) -95.3155325	<b>29. Lat/Long Source</b> <input checked="" type="checkbox"/> Actual <input type="checkbox"/> Estimated		
<b>30.A. Railroad Use *</b>		<b>31.A. State Use *</b>			
<b>30.B. Railroad Use *</b>		<b>31.B. State Use *</b>			
<b>30.C. Railroad Use *</b>		<b>31.C. State Use *</b> State Phone# updated - date updated: 2018-08-16			
<b>30.D. Railroad Use *</b>		<b>31.D. State Use *</b>			
<b>32.A. Narrative (Railroad Use) *</b>		<b>32.B. Narrative (State Use) *</b>			
<b>33. Emergency Notification Telephone No. (posted)</b> 800-848-8715		<b>34. Railroad Contact (Telephone No.)</b> 402-544-3721		<b>35. State Contact (Telephone No.)</b> 512-416-2635	

Part II: Railroad Information

<b>1. Estimated Number of Daily Train Movements</b>				
<b>1.A. Total Day Thru Trains (6 AM to 6 PM)</b> 0	<b>1.B. Total Night Thru Trains (6 PM to 6 AM)</b> 0	<b>1.C. Total Switching Trains</b> 3	<b>1.D. Total Transit Trains</b> 0	<b>1.E. Check if Less Than One Movement Per Day</b> <input type="checkbox"/> How many trains per week? _____
<b>2. Year of Train Count Data (YYYY)</b> 2019		<b>3. Speed of Train at Crossing</b> 3.A. Maximum Timetable Speed (mph) 10 3.B. Typical Speed Range Over Crossing (mph) From 5 to 10		
<b>4. Type and Count of Tracks</b> Main 0 Siding 0 Yard 0 Transit 0 Industry 1				
<b>5. Train Detection (Main Track only)</b> <input checked="" type="checkbox"/> Constant Warning Time <input type="checkbox"/> Motion Detection <input type="checkbox"/> AFO <input type="checkbox"/> PTC <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> None				
<b>6. Is Track Signaled?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>7.A. Event Recorder</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>7.B. Remote Health Monitoring</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## U. S. DOT CROSSING INVENTORY FORM

A. Revision Date (MM/DD/YYYY) 10/14/2022		PAGE 2		D. Crossing Inventory Number (7 char.) 755646C	
<b>Part III: Highway or Pathway Traffic Control Device Information</b>					
1. Are there Signs or Signals? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. Types of Passive Traffic Control Devices associated with the Crossing			
		2.A. Crossbuck Assemblies (count) 0	2.B. STOP Signs (R1-1) (count) 0	2.C. YIELD Signs (R1-2) (count)	2.D. Advance Warning Signs (Check all that apply; include count) <input type="checkbox"/> None <input checked="" type="checkbox"/> W10-1 <u>1</u> <input type="checkbox"/> W10-3 <input type="checkbox"/> W10-11 <input type="checkbox"/> W10-2 <input type="checkbox"/> W10-4 <input type="checkbox"/> W10-12
2.E. Low Ground Clearance Sign (W10-5) <input type="checkbox"/> Yes (count <u>0</u> ) <input checked="" type="checkbox"/> No		2.F. Pavement Markings <input checked="" type="checkbox"/> Stop Lines <input type="checkbox"/> Dynamic Envelope <input checked="" type="checkbox"/> RR Xing Symbols <input type="checkbox"/> None		2.G. Channelization Devices/Medians <input checked="" type="checkbox"/> All Approaches <input checked="" type="checkbox"/> Median <input type="checkbox"/> One Approach <input type="checkbox"/> None	
				2.H. EXEMPT Sign (R15-3) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				2.I. ENS Sign (I-13) Displayed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2.J. Other MUTCD Signs <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specify Type _____ Count <u>0</u> Specify Type _____ Count <u>0</u> Specify Type _____ Count _____			2.K. Private Crossing Signs (if private) <input type="checkbox"/> Yes <input type="checkbox"/> No		2.L. LED Enhanced Signs (List types)
<b>3. Types of Train Activated Warning Devices at the Grade Crossing (specify count of each device for all that apply)</b>					
3.A. Gate Arms (count) Roadway <u>4</u> Pedestrian _____		3.B. Gate Configuration <input checked="" type="checkbox"/> 2 Quad <input type="checkbox"/> Full (Barrier) <input type="checkbox"/> 3 Quad Resistance <input type="checkbox"/> 4 Quad <input type="checkbox"/> Median Gates		3.C. Cantilevered (or Bridged) Flashing Light Structures (count) Over Traffic Lane <u>0</u> <input type="checkbox"/> Incandescent Not Over Traffic Lane <u>0</u> <input type="checkbox"/> LED	
				3.D. Mast Mounted Flashing Lights (count of masts) <u>4</u> <input type="checkbox"/> Incandescent <input checked="" type="checkbox"/> LED <input checked="" type="checkbox"/> Back Lights Included <input type="checkbox"/> Side Lights Included	
				3.E. Total Count of Flashing Light Pairs <u>8</u>	
3.F. Installation Date of Current Active Warning Devices: (MM/YYYY) ____/____/____ <input checked="" type="checkbox"/> Not Required		3.G. Wayside Horn <input type="checkbox"/> Yes Installed on (MM/YYYY) ____/____/____ <input checked="" type="checkbox"/> No		3.H. Highway Traffic Signals Controlling Crossing <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				3.I. Bells (count) <u>2</u>	
3.J. Non-Train Active Warning <input type="checkbox"/> Flagging/Flagman <input type="checkbox"/> Manually Operated Signals <input type="checkbox"/> Watchman <input type="checkbox"/> Floodlighting <input type="checkbox"/> None			3.K. Other Flashing Lights or Warning Devices Count <u>0</u> Specify type _____		
4.A. Does nearby Hwy Intersection have Traffic Signals? <input type="checkbox"/> Yes <input type="checkbox"/> No		4.B. Hwy Traffic Signal Interconnection <input type="checkbox"/> Not Interconnected <input type="checkbox"/> For Traffic Signals <input type="checkbox"/> For Warning Signs		4.C. Hwy Traffic Signal Preemption <input type="checkbox"/> Simultaneous <input type="checkbox"/> Advance	
				5. Highway Traffic Pre-Signals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Storage Distance * _____ Stop Line Distance * _____	
				6. Highway Monitoring Devices (Check all that apply) <input type="checkbox"/> Yes - Photo/Video Recording <input type="checkbox"/> Yes - Vehicle Presence Detection <input type="checkbox"/> None	
<b>Part IV: Physical Characteristics</b>					
1. Traffic Lanes Crossing Railroad Number of Lanes <u>6</u> <input type="checkbox"/> One-way Traffic <input checked="" type="checkbox"/> Two-way Traffic <input type="checkbox"/> Divided Traffic		2. Is Roadway/Pathway Paved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3. Does Track Run Down a Street? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				4. Is Crossing Illuminated? (Street lights within approx. 50 feet from nearest rail) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Crossing Surface (on Main Track, multiple types allowed) Installation Date * (MM/YYYY) ____/____/____ Width * _____ Length * <u>104</u> <input type="checkbox"/> 1 Timber <input type="checkbox"/> 2 Asphalt <input type="checkbox"/> 3 Asphalt and Timber <input checked="" type="checkbox"/> 4 Concrete <input type="checkbox"/> 5 Concrete and Rubber <input type="checkbox"/> 6 Rubber <input type="checkbox"/> 7 Metal <input type="checkbox"/> 8 Unconsolidated <input type="checkbox"/> 9 Composite <input type="checkbox"/> 10 Other (specify) _____					
6. Intersecting Roadway within 500 feet? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Approximate Distance (feet) _____			7. Smallest Crossing Angle <input type="checkbox"/> 0° - 29° <input type="checkbox"/> 30° - 59° <input checked="" type="checkbox"/> 60° - 90°		8. Is Commercial Power Available? * <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Part V: Public Highway Information</b>					
1. Highway System <input type="checkbox"/> (01) Interstate Highway System <input checked="" type="checkbox"/> (02) Other Nat Hwy System (NHS) <input type="checkbox"/> (03) Federal AID, Not NHS <input type="checkbox"/> (08) Non-Federal Aid		2. Functional Classification of Road at Crossing <input type="checkbox"/> (0) Rural <input checked="" type="checkbox"/> (1) Urban <input type="checkbox"/> (1) Interstate <input type="checkbox"/> (5) Major Collector <input type="checkbox"/> (2) Other Freeways and Expressways <input checked="" type="checkbox"/> (3) Other Principal Arterial <input type="checkbox"/> (6) Minor Collector <input type="checkbox"/> (4) Minor Arterial <input type="checkbox"/> (7) Local		3. Is Crossing on State Highway System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				4. Highway Speed Limit <u>30</u> MPH <input checked="" type="checkbox"/> Posted <input type="checkbox"/> Statutory	
				5. Linear Referencing System (LRS Route ID) * 6. LRS Milepost *	
7. Annual Average Daily Traffic (AADT) Year <u>2019</u> AADT <u>14521</u>		8. Estimated Percent Trucks <u>3</u> %		9. Regularly Used by School Buses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Average Number per Day <u>0</u>	
				10. Emergency Services Route <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Submission Information - This information is used for administrative purposes and is not available on the public website.</b>					
Submitted by _____ Organization _____ Phone _____ Date _____					
Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.					