



PRIORITIZATION OF RAILROAD GRADE SEPARATIONS ALONG THE BURLINGTON NORTHERN SANTA FE RAILROAD AT JACKSON STREET, MADISON STREET, MARY STREET, SPRUCE STREET, TYLER STREET, AND MISSION INN AVE

Public Works Department

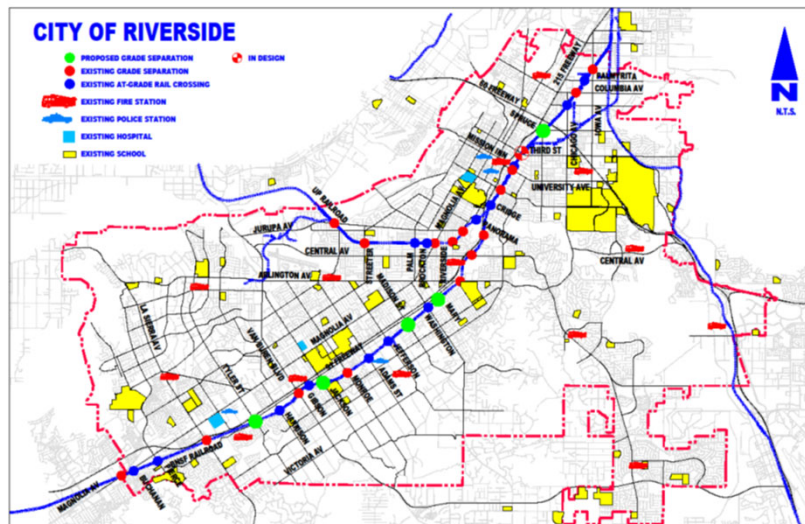
Mobility and Infrastructure Committee

February 8, 2024

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Railroad Crossings



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BACKGROUND

1. On March 17, 2015, City Council received a report on the prioritization of grade separation projects and continued discussion of the Madison Street/BNSF, Third Street/BNSF, Spruce Street/BNSF and Jackson Street/BNSF rail crossings and requested staff return with data on all locations including pedestrian, bicycle, and commercial traffic counts within 30 days.



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BACKGROUND

2. On May 5, 2015, City Council approved the Mary Street, Third Street, Spruce Street and Jackson Street rail crossings for conceptual grade separation design and future funding opportunities.
3. On April 11, 2017, City Council selected Third Street as the top priority railroad grade separation and directed the Public Works Department to issue a RFP to complete the Project Approval and Environmental Documents phase of the project.



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DISCUSSION

- Since 2009 City has completed 6 grade separations.
- Currently Public Works is working on the final design and right-of-way acquisition for the 3rd St. grade separation which is scheduled to begin construction in 4th quarter of 2025. Project is fully funded.
- In September 2023, Public Works collected traffic, pedestrian, and rail crossing data.



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ligible for \$12.08 MM in local TUMF funding

DISCUSSION

Table 1 – Rail Crossing Traffic Data (Collected September 2023)

Street/BNSF Rail Crossing	Average Daily Traffic Counts	Average Daily Pedestrian Counts	Average Daily Bicycle Counts	No. of School Buses	No. of School Special Need Vans	No. of Passenger Buses	TUMF Network
Jackson Street	7,884	218	31	-	8	2	No
Madison Street	13,923	381	52	12	10	4	Yes
Mary Street	12,149	68	75	6	4	5	No
Spruce Street	16,255	32	56	4	4	16	No
Tyler Street	15,407	79	36	6	2	88	No



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DISCUSSION

Table 2 – Rail Crossing Data

Street/BNSF Rail Crossing	Average Daily Train Count	Gate Down Time (Minutes)	Train Accidents: Fatal/Non-Fatal (Past 10 Years)	2017 RCTC Priority Group	Railroad Quiet Zone	Freeway Connectivity	Estimated Cost (\$MM)
Jackson Street	90	156	0/0	3	Yes	No	60.0
Madison Street	90	184	2/0	1	Yes	Yes	60.0
Mary Street	90	180	0/0	3	Yes	No	60.0
Spruce Street	90	196	1/0	1	No*	Yes	75.0
Tyler Street	92	145	2/1	1	Yes	Yes	100.0+



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DISCUSSION

- Based on the traffic and rail crossing data including train accidents history, RCTC ranking, and freeway connectivity, the Public Works Department is recommending the following priority ranking of projects:
 1. Madison St.
 2. Spruce St.
 3. Jackson St.
 4. Mary St.
 5. Tyler St.*(additional review required)



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STRATEGIC PLAN ALIGNMENT

Strategic Priority No. 6 Infrastructure, Mobility and Connectivity

Goal No. 6.2 – Maintain, protect, and improve assets and infrastructure within the City's built environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.



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JACKSON STREET RAIL CROSSING



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MADISON STREET RAIL CROSSING



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MARY STREET RAIL CROSSING



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SPRUCE STREET RAIL CROSSING



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TYLER STREET RAIL CROSSING



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RECOMMENDATIONS

That the Mobility & Infrastructure Committee review and provide recommendation to the City Council to:

1. Approve the proposed Grade Separation Priority Ranking as follows: (1) Madison Street, (2) Spruce Street, (3) Jackson Street, (4) Mary Street, (5) Tyler Street, and (6) Mission Inn Avenue; and
2. Direct the Public Works Department to explore funding opportunities in-order to begin the Project Approval and Environmental Documents phase of the Madison Street grade separation.



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