SE Main Ave/20 St/21 St RR Grade Separation Project May 29, 2018 Public Hearing





Topics

- Brief project description
- Brief history
- Funding
- Important considerations
- Previous "regional" projects

- Benefits
- As-bid costs
- Special assessments
- Construction
- Potential modifications





The Project

- Reconstruct & realign the intersection of SE Main Ave & 20 St/21 St
- Streets will pass under new bridges carrying BNSF & OTVR tracks
- Addition of "wye" track





The Wye

- Allows NB to EB & WB to SB train movements
- Eliminates delays at Downtown crossings due to trains backing up
- Provides RR
 operational
 benefits

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Project Animations

www.cityofmoorhead.com & search for

"se main ave"





Benefits

High priority grade separation

 Improve safety & congestion for vehicles, bicycles, pedestrians & emergency services



Improvements to Highway-Rail

Grade Crossings and Rail Safety

- In the vicinity of SE Main Ave & 20 St/21 St
- At Downtown crossings

Improve freight operations & efficiency





Brief History

- <u>2000</u>: Study of 34th Street/I-94 Interchange and Railroad Relocation Alternatives
- <u>2002</u>: Preliminary engineering & environmental assessment (EA) begins
- <u>2006</u>: Right-of-way acquisition & final design begins
- <u>2007</u>: Final EA & Finding of No Significant Impact
- <u>2009:</u> 95% Plans Complete
- 2010: Right-of-way acquisition complete
- 2011: Building demo & site preparation
- 2017: \$42.262M State grant awarded



As-bid Cost: \$65,858,747



What is driving the cost?

- Railroad modifications (track, signals, etc)
- Railroad coordination
- Maintaining railroad operations
- Project complexity
- Small work zone
- Quantity of excavation
- Stormwater improvements
- Managing stormwater on the construction site

More than \$12M



Potential Sources of Local Funding

- Municipal State Aid about \$2M per year
 County Road & Bridge about \$150,000 per year
 Bond
 - Requires 20% of the bond amount be collected through special assessments
 - Remaining 80% can be collected through general property tax debt levy or other city-wide sources (all properties contribute)
- Utility funds water, power, sewer relocations
 Other??



Proposed Funding: \$65,858,747





Special Assessment District

Regional benefits

- Downtown benefits
- Consider similar function of 34 St Overpass
- Consider previous & future regional projects (e.g. 34 St/I-94 interchange, 15 _Ave N bridge)





Special Assessment Examples

Parcel Size	Example l	Example 2	Example 3
l acre or less	\$775.00	\$750.00	\$685.00
1.01 to 5 acres	\$1,162.50	\$1,500.00	\$2,740.00
More than 5 acres	\$1,550.00	\$3,000.00	\$5,480.00

- Paid over 20 years
- Estimated interest rate of 4.75%
- At \$775.00, first year payment is approximately \$76
- Collected with property taxes
- Subject City Council direction & action



Annual Payments for Example 1: \$775,20 years, 4.75% interest



Special Assessment Schedule

• Public Hearing to Consider Use of Special Assessments:

May 29, 2018

 Consider Resolutions to Order Improvements, Approve Agreements, Award Bid:

June 4, 2018

• Public Hearing to Adopt Special Assessments:

No earlier than Fall, 2019

Special Assessment Collections Begin:

No earlier than 2020



Important Considerations

• Public hearing

- Legal requirement to allow the City Council to consider the use of special assessments to cover some of the local cost for the project
- Necessary step to preserve this funding option even if it is ultimately not used
- Final amount to be assessed to individual parcels need not be determined at the hearing
- Final amount subject to:
 - Council direction on allocation to properties in the special assessment district
 - Final project costs
 - Adoption at a future public hearing



Construction



Initiate construction Summer, 2018
 Total duration is approximately 3 years

• During the first 2 years, SE Main Ave/20 St/21 St intersection closed to most or all movements



During the third year, primary impacts are on 1 Ave S

Special Assessment District Examples for Regional Projects

- 34 St & I-94 Interchange
- SE Main Ave & I-94 Ramps
- Flood Mitigation



34 St & I-94 Interchange





SE Main Ave & I-94 Ramps







On-going efforts....

• To secure additional funding & reduce costs:

- Request for additional State assistance
 - \$6M in recently passed bonding bill
 - Awaiting Governor signature
- Coordination with low bid contractor to explore project modifications to reduce cost



Potential Project Modifications

Potential Revision	Savings	
Full closure of SE Main Ave/20 St/21 St intersection	\$125,000	Y
Revised shoofly	\$1,250,000- \$1,600,000	Y
Pavement typical section modifications		
Eliminate/reduce select granular borrow - various	\$281,000	Y
Substitute bituminous pavement for concrete	\$750,000	Ν
Substitute regular concrete for stamped colored concrete	\$77,363	Ν
Pump modifications	TBD	TBD
Delete knife gate from pumping station	\$90,000	Y
Shorter height of retaining walls	\$160,000- \$198,000	Y



Revised Shoofly



Potential Project Modifications

Potential Revision	Savings	
Substitute vinyl chain link fence for decorative railing	\$100,000- \$125,000	Y
Shorten turn lanes	\$66,000- \$132,000	Y
Eliminate 10' sidewalk on N side of Main Ave, W of 20 St	\$65,000	Ν
Estimated potential savings	\$2,964,363- \$3,443,363	
Estimated recommended savings	\$2,072,000- \$2,551,000	
Less BNSF additional temporary shoofly costs	???	

All savings subject to development of detailed change orders



Illustration of potential modifications

• <u>Assumptions:</u>

- \$6M in additional State assistance
- \$2M in <u>net saving</u>s from project revisions:
 - Dependent on development of detailed change order(s)
 - Dependent on increased BNSF shoofly costs TBD
- No other changes in funding sources or costs

Modified Funding: \$63,858,747

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Special Assessment Examples

Parcel Size	Example 1	Example 2	Example 3
l acre or less	\$355.00	\$345.00	\$315.00
1.01 to 5 acres	\$532.50	\$690.00	\$1,260.00
More than 5 acres	\$710.00	\$1,380.00	\$2,520.00

- Paid over 20 years
- Estimated interest rate of 4.75%
- At \$355.00, first year payment is approximately \$35
- Collected with property taxes
- Subject City Council direction & action

