

## HUMBOLDT BRIDGES IMPROVEMENT

### QUESTIONS & ANSWERS

#### **1. What is the project?**

- Remove the bridges over the Milwaukee River and over N Riverboat Rd, and replace them with new bridges. The bridge approaches will also be reconstructed.

The project area is N Humboldt Ave, starting from N Water St/ E Kane Pl, and ending at N Commerce St.

#### **2. The current bridges look fine. Why do they need replacement?**

- Although they may look fine on the surface, they have several structural deficiencies that warrant replacement to avoid rapid deterioration and the posting of weight-limits to heavy trucks in a near future.

The City routinely inspects bridges for their strength once every two years (or more frequent, due to the bridge type or conditions) to ensure public safety. The inspections recommend whether routine maintenance or rehabilitation or reconstruction of a bridge is needed.

-The existing bridges are more than 50 years old.

### **3. What are the improvements on the new bridges?**

- They will be built with modern technology, providing a longer structure life. They are expected to be in service to the end of this century.
- Driving on the bridges will be safer due to improved sight distance for drivers.
- The new bridges will be wider than existing bridges. The width of the roadway on the bridges will be increased from 28 feet to 44 feet, from face of curb to face of curb.
- There will be a consistent width of the roadway of N Humboldt Ave from N Water St/ E Kane Pl to N Commerce St. (Currently, the bridges are narrower than the approaches).
- The sidewalks on the bridges will be wider. Two scenic look-outs will be provided on the bridge over the Milwaukee River.
- The bridges will look aesthetically pleasing. The styling has been approved by the Milwaukee Arts Board. There will be no more aerial power lines along N Humboldt Ave in the bridges area. (They will go underground).
- The vertical clearance over N Riverboat Rd will be increased by almost four feet, allowing all types of vehicles to pass under the bridge. (The current 11-foot clearance does not allow large trucks on N Riverboat Rd to cross under the bridge).
- The ramp from N Riverboat Rd to N Humboldt Ave will be changed to an off-ramp from N Humboldt Ave.
- In addition, a traffic signal will be placed at the intersection of Humboldt and Water/ Kane.

**4. How much does the improvement cost me as an abutting property owner?**

- Nothing. There will be no assessment to owners as a result of this improvement.

Construction costs will be approximately six million dollars. The City pays about 1.2 million, with the remainder paid by federal fund under the Local Bridge Program. The City Common Council approved the construction of these bridges in May 2008.

**5. What is the construction schedule?**

- If everything goes smoothly, construction will start in September 2008 and finish in November 2009.

**6. Will the bridges be constructed by halves to provide crossings during construction?**

- Due to the nature of the existing bridges, they cannot be removed and reconstructed by halves. The whole bridge will have to be removed for reconstruction.

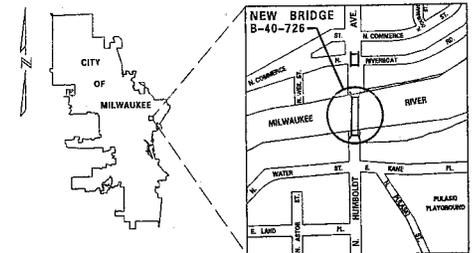
**7. Then how can I get around?**

- Through traffic will by-pass the N Humboldt Ave construction zone by taking N Commerce St and N Water St.

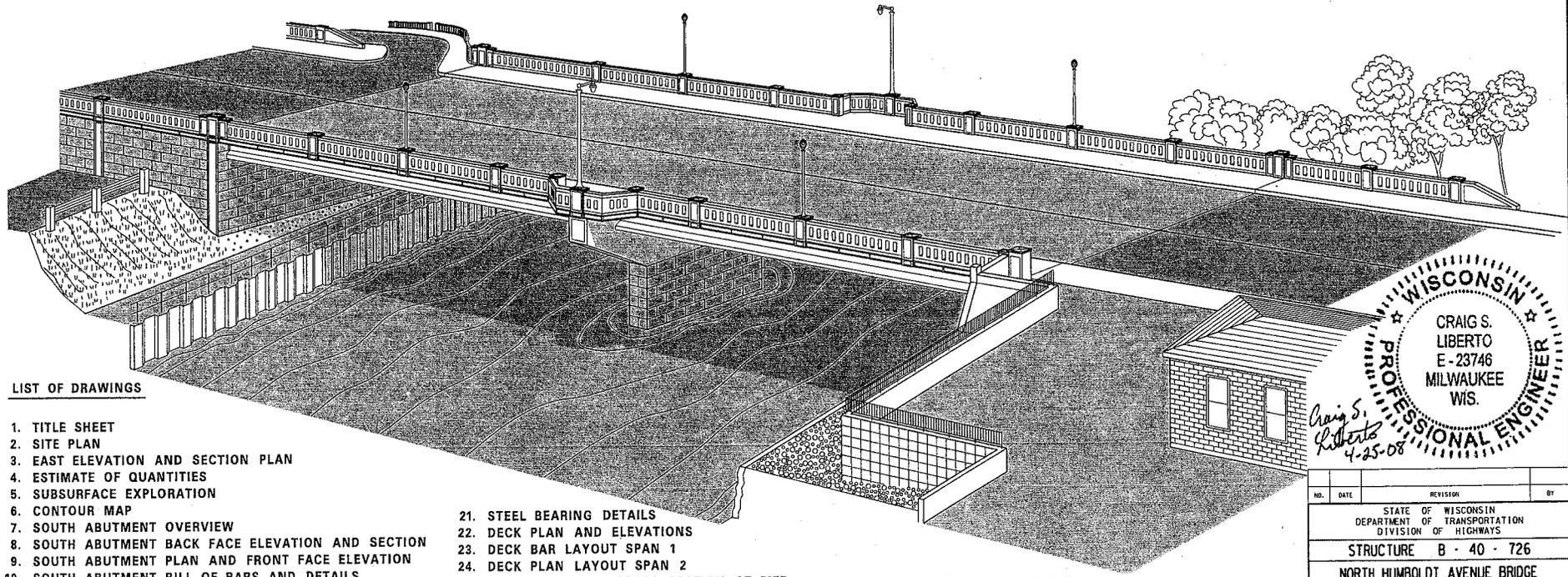
- Construction will consist of three stages to provide access for residents and businesses on N Riverboat Rd to the east of N Humboldt Ave. The structure engineer or the traffic engineer will explain the traffic control plan in details.

# NORTH HUMBOLDT AVENUE BRIDGE

## OVER THE MILWAUKEE RIVER

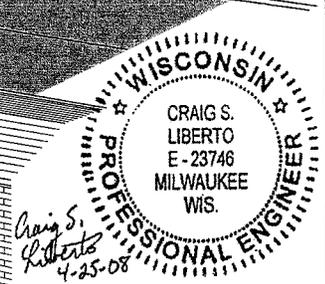


LOCATION MAP



**LIST OF DRAWINGS**

- |  |  |   |
|--|--|---|
| <ol style="list-style-type: none"> <li>1. TITLE SHEET</li> <li>2. SITE PLAN</li> <li>3. EAST ELEVATION AND SECTION PLAN</li> <li>4. ESTIMATE OF QUANTITIES</li> <li>5. SUBSURFACE EXPLORATION</li> <li>6. CONTOUR MAP</li> <li>7. SOUTH ABUTMENT OVERVIEW</li> <li>8. SOUTH ABUTMENT BACK FACE ELEVATION AND SECTION</li> <li>9. SOUTH ABUTMENT PLAN AND FRONT FACE ELEVATION</li> <li>10. SOUTH ABUTMENT BILL OF BARS AND DETAILS</li> <li>11. SOUTH ABUTMENT FOOTING PLAN</li> <li>12. NORTH ABUTMENT OVERVIEW</li> <li>13. NORTH ABUTMENT BACK FACE ELEVATION AND SECTION</li> <li>14. NORTH ABUTMENT PLAN AND FRONT FACE ELEVATION</li> <li>15. NORTH ABUTMENT BILL OF BARS AND DETAILS</li> <li>16. NORTH ABUTMENT FOOTING PLAN</li> <li>17. PIER</li> <li>18. PIER DETAILS</li> <li>19. PIER BILL OF BARS</li> <li>20. 70" PRESTRESSED GIRDER DETAILS</li> </ol> | <ol style="list-style-type: none"> <li>21. STEEL BEARING DETAILS</li> <li>22. DECK PLAN AND ELEVATIONS</li> <li>23. DECK BAR LAYOUT SPAN 1</li> <li>24. DECK PLAN LAYOUT SPAN 2</li> <li>25. SUPERSTRUCTURE CROSS SECTION AT PIER</li> <li>26. SUPERSTRUCTURE CROSS SECTIONS</li> <li>27. DECK AND SUPERSTRUCTURE BILL OF BARS</li> <li>28. INTERMEDIATE STEEL DIAPHRAGM DETAILS</li> <li>29. STRIP SEAL EXPANSION DEVICE</li> <li>30. STRIP SEAL COVER PLATE</li> <li>31. RAILING PLAN SPAN 1</li> <li>32. RAILING PLAN OVER PIER</li> <li>33. RAILING PLAN SPAN 2</li> <li>34. RAILING DETAILS</li> <li>35. UNDERDECK CONCRETE INSERT SPACING WE ENERGIES UTILITY LINES</li> </ol> | <ol style="list-style-type: none"> <li>36. DECK AND GIRDER ELEVATIONS</li> <li>37. NORTH ABUTMENT SHEET PILING AND TIEBACKS</li> <li>38. SHEET PILING AND ANCHORAGE CROSS SECTIONS</li> <li>39. SHEET PILING DETAILS</li> </ol> |
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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE B - 40 - 726			
NORTH HUMBOLDT AVENUE BRIDGE OVER THE MILWAUKEE RIVER			
COUNTY: MILWAUKEE		CITY: MILWAUKEE	
DESIGN SPEC. AASHTO 2002	LOAD HS 25	SPEC. 2008	
DESIGNED BY A.R.	CHECKED E.A.J.	DRAWN BY K.P.S.	PLANS CHECKER A.R.
APPROVED: STATE BRIDGE ENGINEER		DATE	
TITLE SHEET			SHEET   OF 39 X

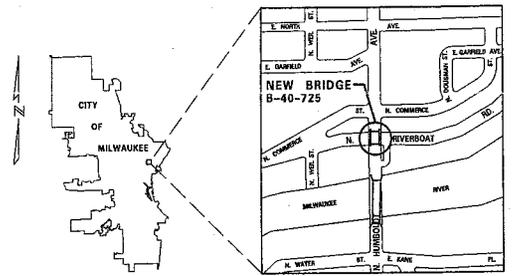
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04-25-2008

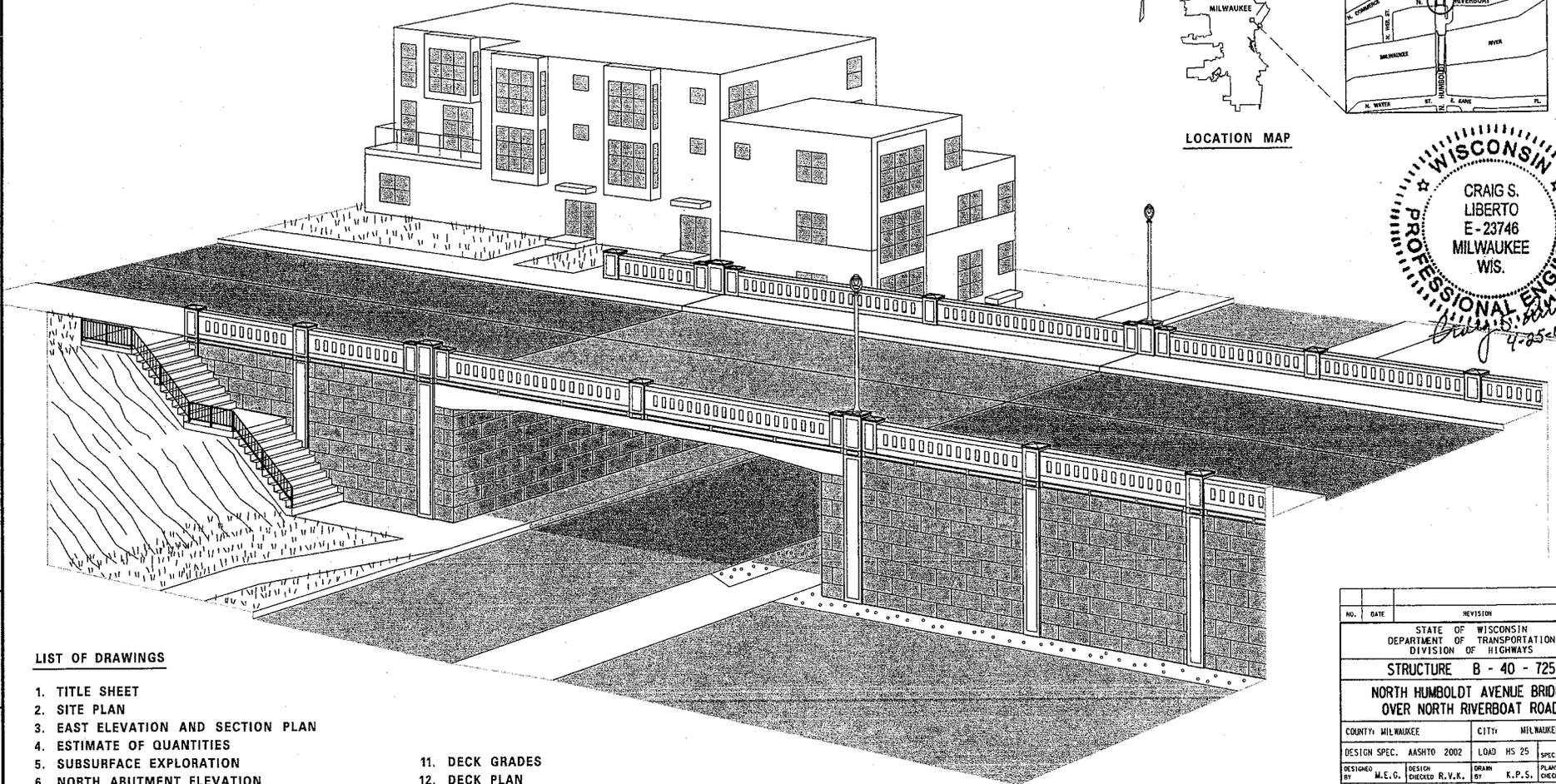
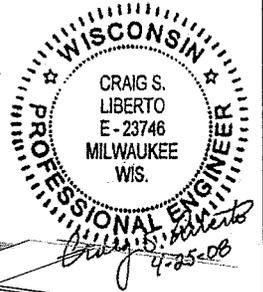
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# NORTH HUMBOLDT AVENUE BRIDGE

## OVER NORTH RIVERBOAT ROAD



LOCATION MAP



**LIST OF DRAWINGS**

- |   |                                   |
|---|-----------------------------------|
| 1. TITLE SHEET                              | 11. DECK GRADES                   |
| 2. SITE PLAN                                | 12. DECK PLAN                     |
| 3. EAST ELEVATION AND SECTION PLAN          | 13. DECK CROSS SECTION            |
| 4. ESTIMATE OF QUANTITIES                   | 14. DECK DETAILS AND BILL OF BARS |
| 5. SUBSURFACE EXPLORATION                   | 15. RAILING PLAN AND BILL OF BARS |
| 6. NORTH ABUTMENT ELEVATION                 | 16. BRIDGE RAILING DETAILS        |
| 7. NORTH ABUTMENT BILL OF BARS AND SECTIONS |                                   |
| 8. SOUTH ABUTMENT ELEVATION                 |                                   |
| 9. SOUTH ABUTMENT BILL OF BARS AND SECTIONS |                                   |
| 10. ABUTMENT FOOTING PLAN                   |                                   |

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE B - 40 - 725 NORTH HUMBOLDT AVENUE BRIDGE OVER NORTH RIVERBOAT ROAD			
COUNTY: MILWAUKEE		CITY: MILWAUKEE	
DESIGN SPEC. AASHTO 2002	LOAD HS 25	SPEC. 2008	
DESIGNED BY M.E.G.	DESIGN CHECKED R.V.K.	DRAWN BY K.P.S.	PLANS CHECKED M.E.G.
APPROVED: _____ DATE: _____ STATE BRIDGE ENGINEER			
TITLE SHEET			SHEET 1 OF 16
			X

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WASTRABOON, LITTLE, DON  
04-25-2008