

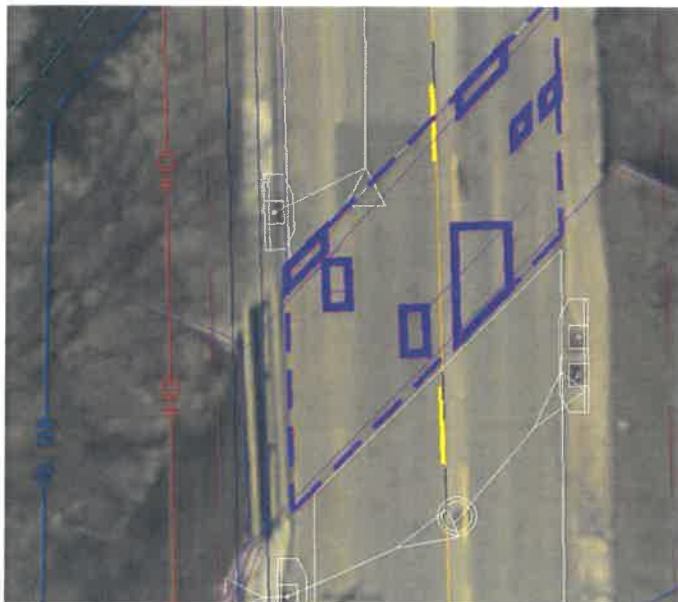


Memo

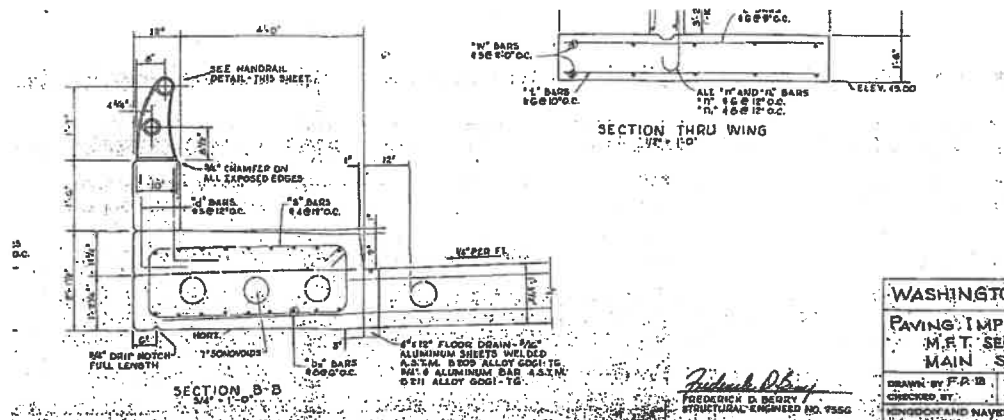
TO: Public Works Committee
FROM: Ed Andrews, Public Works Director
DATE: May 3, 2019
SUBJECT: South Main Street Deck Repairs

I've recently reviewed the South Main Street bridge, focused on the performance of previous epoxy repairs done in-house. New repairs using square cut edges and chipping to sound material are performing well, but earlier repairs with surface application have spalled. IDOT Guidelines advise using partial depth repairs with PP Concrete. The goal is to extend the serviceability of the deck at least another 5 years before tentative replacement is scheduled at 60 years of service life.

These repairs are more extensive than previously undertaken by in-house staff and as such I contacted RA Cullinan to assist in establishing a budgetary number for their assistance. I calculated 118.5 SF of patching based upon a surface review and chain drag sounding, but this may increase as the repairs are undertaken and chipping back to sound concrete.



The main concern that Cullinan expressed was with the sonotube construction used during the casting of the original deck to help save weight. These voids are critical to preserve and will require additional attention during the repairs. Given this variability, they proposed undertaking this effort under standard IDOT T&M rates.



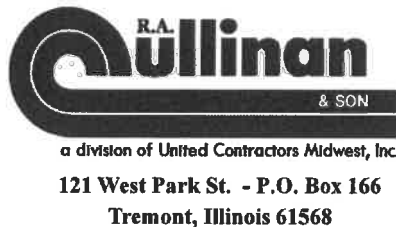
As such a budgetary allowance of a 3-person crew, foreman, laborer and finisher has been established working three 2-day work weeks (Monday & Tuesday) at 9 hours a day, breaking out the unsound concrete and pouring it back on the second day.

In an effort to reduce cost, traffic control would be provided by the City. Work would be conducted one lane at a time, leaving two open at all times and shifting to the other lane(s) weekly as the concrete cured sufficiently to allow the traffic shift.



This matter has been placed on the Public Works Meeting agenda of Monday, May 6th, 2019 for additional review and discussion.

cc: File



CONCRETE GRAVEL & BITUMINOUS PAVEMENTS
CONCRETE AND STEEL BRIDGES AND CULVERTS
PILE DRIVING - EXCAVATING - DRAINAGE DITCHES

OFFICE PHONE 925-2711
Area Code 309 PEORIA 676-4343
Area Code 309 PEKIN 346-7262
FAX 309-925-7131

Quote To: City of Washington

Job Name: Bridge Repair

Project Location:

Date of Plans:

Bid Date:

FSA:

Addendum:

Attn: Ed Andrews

Phone:

Mobile:

Fax:

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
10	DECK REPAIR	1.00	LS	23,885.17	23,885.17
GRAND TOTAL					\$23,885.17

NOTES:

Excludes all permits, fees, bonds, warranty bonds, etc.

R.A. Cullinan has prepared this cost budget for a preliminary estimate for the bridge patching as described by Mr. Andrews.

The actual work will be performed on a time and material basis, hoping to reduce the total cost of the project, although there are some unknowns to the actual need of the repair.

The city will furnish all other traffic control / lane closures and make the traffic swithes once the patches in the deck come up to strength. Including flaggers if required.

RAC has the project figured in 3 stages.

RAC will use all state approved materials as directed by Mr. Andrews. Our PCC QC lab is also state approved with certified technicians.

This worked is figured on a 9 hour shift per day.

Thank you for the opportunity to bid on this project. We look forward to working with you.

Tom Wall

R. A. Cullinan & Son

a division of United Contractors Midwest, Inc.

Signed _____

Signed _____

Date _____

Date _____