



Memo

TO: Mayor Manier and City Council
FROM: Ed Andrews, Public Works Director
DATE: September 14, 2018
SUBJECT: South Main Street Repairs – Storm Sewer Addition

EXECUTIVE SUMMARY:

Consideration of the inclusion of the storm sewer along the section of South Main from the Danforth Alley to Burton Street is being requested. Additional study effort has been undertaken to help insure that this work would be compatible with future improvements to the Square. Pricing from the already approved contractor for the curb work, Lonewolf Concrete has been solicited and included herewith.

BACKGROUND:

At the September 10th, 2018 Committee of the Whole Meeting, discussion on the inclusion of storm sewer from Danforth Alley to the existing storm sewer manhole at Burton Street was discussed. This discussion was in follow up to previous discussions and investigations shared at the at the August 20th, 2018 Finance & Personnel Committee meeting and Public Works Committee meeting of September 4th, 2018.

Review was undertaken by Staff and Hutchison Engineering. The Square is currently not served by storm sewer and relies on a series of grates across the radius islands to help direct surface flow to inlets approximately 1 block away in all directions. This consideration also gave the opportunity to review the approximate 1.5 acres of contributory drainage that the Square currently generates as overland / gutter flow. This review found that a series of supplemental inlets are recommended by current IDOT design guidelines and would also help provide for a sump collection system to buildings around the Square, shown in the attached Plan and Profile exhibit. Only the 2 eastern inlets would be constructed under this portion of work, with the remaining 3 inlets as work around the Square progresses.

Portions of the existing downstream storm sewer starting at Burton have been further reviewed in follow up to discussions at the Committee of the Whole Meeting. Those findings are that the existing storm sewer begins at Burton Street as a 15" diameter pipe. It runs south to the S. Main Bridge and discharges through the abutment as a 24" diameter pipe.

The City's GIS mapping shows that only inlets along South Main are tied into this run, no additional side street's storm sewers are tied into this run. An inventory of existing inlets along S. South include the 3 inlets at the Catherine Street intersection, 4 inlets at Holland Street and inlets pairs at the bridge itself. Assuming these 9 existing inlets, the current 2 additional and

future 3 inlets at 1 cfs each, the existing 24" storm sewer would have adequate capacity at 16 to 24 cfs of capacity of full pipe flow at minimal slopes of 0.5% to 1%. South Main actually averages a slope of 2.25% from the proposed Burton Street manhole tie-in (Rim Elev = 756+/-) to the bridge approach pavement (Elev = 728+/-) over a centerline distance of 1,250LF.

RECOMMENDATION:

It is recommended that the storm sewer work be approved to Lonewolf Concrete under the quoted amount of **\$27,800**.

This matter has been placed on the agenda for the City Council meeting of Monday, September 17th, 2018, for review and consideration.

cc: File



Estimate

Estimate # 4345

LONEWOLF CONCRETE, INC.

1406 Timberline Rd. P.O.
Box 61
Goodfield, IL 61742

Phone: (309) 965-2829
Fax: (309) 965-2839

Chris Schmidgall 309-303-3583
Wade Wettstein 309-303-4749

DATE: 9/13/2018

Estimate for:

City of Washington
Washington City Hall
301 Walnut Street
Washington, IL 61571

Project:

Storm Sewer S. Main St.

Lonewolf Concrete Inc. appreciates the opportunity to submit the following estimate.

Contact info:

DESCRIPTION	TOTAL
Storm Sewer S. Main St. Price for the excavation and installation of storm sewer on S. Main St.. Install (2) G-1 inlets 12" SDR35 x 58 L.F. 15" SDR 35 x 240 L.F. Pipe embedded in flowable fill to prevent settling. Includes sawcutting of roadway Includes hauling away all excavated dirt and gravel. Items to be done by others, asphalt repair work, traffic control, reseeding and backfilling along backside of curbs, removal or relocation of existing utilities.	27,800.00

TOTAL \$27,800.00

SIGNATURE _____

PROFILE NO. <small>XXXXXXXXXXXX</small>	NO. YIELD	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	B.A. NOTED		
	STRUCTURE <input type="checkbox"/> TAIL <input type="checkbox"/> CHWD		

