



Roll Call Number

Agenda Item Number

7C

DATE December 20, 2021

ORDERING CONSTRUCTION OF
SW 9TH ST BRIDGE REPLACEMENT OVER MIDDLE SOUTH CREEK
AND FIXING A DATE FOR RECEIVING OF BIDS ON JANUARY 19, 2022
AND PUBLIC HEARING ON FEBRUARY 7, 2022
ENGINEER'S ESTIMATE IS \$1,731,800.54

WHEREAS, this Council deems it advisable and necessary to construct the below referenced improvement, all in accordance with the plans and specifications, and has caused to be prepared plans, specifications, and form of contract, together with estimate of cost, which are now on file in the City Engineer's Office, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa 50309, for public inspection for the construction of said improvements, and said plans, specifications and form of contract are deemed suitable for the making of said improvement, for which the State of Iowa Department of Transportation (IDOT) and the City of Des Moines, (CITY) have an agreement, previously approved by this Council, under which the IDOT has agreed to advertise, receive, open and tabulate sealed bids, and

WHEREAS, before said plans, specifications, form of contract, and estimated cost of the improvement may be approved, and contract for the construction of the improvement entered into, it is necessary to hold a public hearing.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the attached communication recommending construction of the following improvement and the method of financing; and also including the recommendation of the Des Moines City Engineer, as the Engineer, submitting plans, specifications, form of contract documents, and Engineer's estimate of cost for the construction of the following improvement:

SW 9th St Bridge Replacement over Middle South Creek, 122021003
BRM-SWAP-1945(857)--SD-91

The improvement includes removal of the existing three span concrete slab bridge, construction of a new continuous concrete slab bridge on steel pile foundations, bridge barrier rail, minor approach grading and concrete approach pavement, guardrail, channel shaping and revetment, erosion control, seeding, traffic control and temporary traffic signals, and mobilization; all in accordance with the contract documents, including Plan File No. 635-228/296, on S.W. 9th Street over Middle South Creek located south of Iowa Highway 5 in Warren County, Des Moines, Iowa

be and the same are hereby approved and accepted. The estimated construction cost for said improvement is \$1,731,800.54. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.

BE IT FURTHER RESOLVED: That this Council hereby determines that it is necessary and advisable to construct said improvement in the manner set forth in the plans, specifications, and form of contract documents submitted by the Engineer; and that payment for the cost of said improvement shall be paid from the funding source identified below.

BE IT FURTHER RESOLVED: That a public hearing on said plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement be held in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa, at 5:00 p.m. on February 7, 2022, at which time this Council will consider any objections offered thereto or to the making of said improvement.



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BE IT FURTHER RESOLVED: That proposals will be received by the Iowa Department of Transportation, for the construction of said improvements, and the taking of bids in the manner required by law. Proposals received will be opened and tabulated by the Iowa Department of Transportation on January 19, 2022, after which the bids together with a report and recommendation of the Chief Civil Engineer, will be presented to City Council at its next meeting for action thereon.

BE IT FURTHER RESOLVED: That an appropriate Notice to Bidders for said improvement be posted, and Notice of Public Hearing for said improvement be published in the Des Moines Register, all as provided and directed by Chapter 26 and/or 314, Code of Iowa.

(City Council Communication Number 21-574 attached.)

Moved by _____ to adopt.

FORM APPROVED:

FUNDS AVAILABLE

s/Kathleen Vanderpool

s/Nickolas J. Schaul

Kathleen Vanderpool
Deputy City Attorney

Nickolas J. Schaul
Director of Finance



Funding Source: 2021-2022 CIP, Page 28, SW 9th St Bridge over Middle Creek, BR062, Being: \$1,000,000 (maximum) City Bridge Federal-aid Swap funds being 80% of eligible construction costs under BHM-SWAP-1945(857)--SD-91, and the remaining \$731,800.54 G. O. Bonds

| COUNCIL ACTION | YEAS | NAYS | PASS | ABSENT |
|----------------|------|------|------|----------|
| COWNIE | | | | |
| WESTERGAARD | | | | |
| GRAY | | | | |
| BOESEN | | | | |
| VOSS | | | | |
| MANDELBAUM | | | | |
| GATTO | | | | |
| TOTAL | | | | |
| MOTION CARRIED | | | | APPROVED |

I, P. Kay Cmelik, City Clerk of said City Council, hereby certify that at a meeting of the City Council, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

Mayor

City Clerk

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OPINION OF PROBABLE CONSTRUCTION COST

Project: SW 9th Street Bridge Replacement over Middle South Creek

IDOT Project Number: BRM-SWAP-1945(857)--SD-91

ACTIVITY ID: 12-2021-003

DATE: 11/10/2021

| ITEM NO. | ITEM CODE | ITEM DESCRIPTION | UNIT | QUANTITY | UNIT COST | ITEM COST |
|----------|--------------|---|------|----------|-------------|--------------|
| 1 | 2101-0850001 | CLEARING AND GRUBBING | ACRE | 1.0 | \$6,000.00 | \$6,000.00 |
| 2 | 2102-0425070 | SPECIAL BACKFILL | TON | 290.4 | \$23.00 | \$6,679.20 |
| 3 | 2102-2710070 | EXCAVATION, CLASS 10, ROADWAY AND BORROW | CY | 984.0 | \$10.00 | \$9,840.00 |
| 4 | 2102-2710090 | EXCAVATION, CLASS 10, WASTE | CY | 2467.0 | \$12.00 | \$29,604.00 |
| 5 | 2102-2713090 | EXCAVATION, CLASS 13, WASTE | CY | 127.3 | \$15.00 | \$1,909.50 |
| 6 | 2104-2710020 | EXCAVATION, CLASS 10, CHANNEL | CY | 1845.0 | \$8.00 | \$14,760.00 |
| 7 | 2105-8425015 | TOPSOIL, STRIP, SALVAGE AND SPREAD | CY | 826.0 | \$7.00 | \$5,782.00 |
| 8 | 2107-0875000 | COMPACTION WITH MOISTURE AND DENSITY CONTROL | CY | 757.0 | \$2.00 | \$1,514.00 |
| 9 | 2115-0100000 | MODIFIED SUBBASE | CY | 200.0 | \$45.00 | \$9,000.00 |
| 10 | 2122-5190008 | PAVED SHOULDER, P.C. CONCRETE, 8 IN. | SY | 437.7 | \$41.00 | \$17,945.70 |
| 11 | 2122-5190501 | PAVED SHOULDER, PORTLAND CEMENT CONCRETE (PAVED SHOULDER PANEL FOR BRIDGE END DRAIN) | SY | 88.6 | \$165.00 | \$14,619.00 |
| 12 | 2123-7450000 | SHOULDER CONSTRUCTION, EARTH | STA | 11.4 | \$300.00 | \$3,420.00 |
| 13 | 2212-5070310 | PATCHES, FULL-DEPTH REPAIR | SY | 322.8 | \$110.00 | \$35,508.00 |
| 14 | 2212-5070330 | PATCHES BY COUNT (REPAIR) | EACH | 6.0 | \$130.00 | \$780.00 |
| 15 | 2301-0690205 | BRIDGE APPROACH, BR-205 | SY | 429.4 | \$275.00 | \$118,085.00 |
| 16 | 2301-1033095 | STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9.5 IN. | SY | 480.0 | \$95.00 | \$45,600.00 |
| 17 | 2304-0100000 | DETOUR PAVEMENT | SY | 231.0 | \$60.00 | \$13,860.00 |
| 18 | 2401-6745625 | REMOVAL OF EXISTING BRIDGE | LS | 1.0 | \$70,000.00 | \$70,000.00 |
| 19 | 2401-6750001 | REMOVALS, AS PER PLAN | LS | 1.0 | \$4,500.00 | \$4,500.00 |
| 20 | 2402-2720000 | EXCAVATION, CLASS 20 | CY | 117.8 | \$50.00 | \$5,890.00 |
| 21 | 2403-0100010 | STRUCTURAL CONCRETE (BRIDGE) | CY | 338.9 | \$850.00 | \$288,065.00 |
| 22 | 2404-7775005 | REINFORCING STEEL, EPOXY COATED | LB | 81220.0 | \$2.50 | \$203,050.00 |
| 23 | 2412-0000100 | LONGITUDINAL GROOVING IN CONCRETE | SY | 857.4 | \$3.60 | \$3,086.64 |
| 24 | 2414-6424110 | CONCRETE BARRIER RAILING | LF | 262.9 | \$125.00 | \$32,862.50 |
| 25 | 2501-0201042 | PILES, STEEL, HP 10 X 42 | LF | 750.0 | \$50.00 | \$37,500.00 |
| 26 | 2501-0201253 | PILES, STEEL, HP 12 X 53 | LF | 1250.0 | \$55.00 | \$68,750.00 |
| 27 | 2501-5478053 | CONCRETE ENCASMENT OF STEEL H PILES, HP 12 X 53 (P10L TYPE 3) | LF | 426.4 | \$160.00 | \$68,224.00 |
| 28 | 2501-8400172 | TEMPORARY SHORING | LS | 1.0 | \$5,000.00 | \$5,000.00 |
| 29 | 2502-8212034 | SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA. | LF | 640.0 | \$6.00 | \$3,840.00 |
| 30 | 2502-8221306 | SUBDRAIN OUTLET, DR-306 | EACH | 4.0 | \$400.00 | \$1,600.00 |
| 31 | 2503-0500402 | BRIDGE END DRAIN, DR-402 | EACH | 4.0 | \$5,700.00 | \$22,800.00 |
| 32 | 2505-4008300 | STEEL BEAM GUARDRAIL | LF | 50.0 | \$25.00 | \$1,250.00 |
| 33 | 2505-4008410 | STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201 | EACH | 4.0 | \$2,100.00 | \$8,400.00 |
| 34 | 2505-4021010 | STEEL BEAM GUARDRAIL END ANCHOR, BOLTED | EACH | 4.0 | \$275.00 | \$1,100.00 |
| 35 | 2505-4021720 | STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205 | EACH | 4.0 | \$2,600.00 | \$10,400.00 |
| 36 | 2507-2638650 | BRIDGE WING ARMORING - EROSION STONE | SY | 13.2 | \$95.00 | \$1,254.00 |
| 37 | 2507-3250005 | ENGINEERING FABRIC | SY | 2383.0 | \$3.50 | \$8,340.50 |
| 38 | 2507-6800061 | REVTMENT, CLASS E | TON | 2541.9 | \$70.00 | \$177,933.00 |
| 39 | 2510-6745850 | REMOVAL OF PAVEMENT | SY | 1131.8 | \$9.00 | \$10,186.20 |
| 40 | 2526-8285000 | CONSTRUCTION SURVEY | LS | 1.0 | \$6,000.00 | \$6,000.00 |
| 41 | 2527-9263109 | PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED | STA | 16.1 | \$25.00 | \$401.75 |
| 42 | 2527-9263131 | WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS | STA | 6.3 | \$100.00 | \$625.00 |
| 43 | 2527-9263180 | PAVEMENT MARKINGS REMOVED | STA | 16.1 | \$40.00 | \$642.80 |
| 44 | 2528-2518000 | SAFETY CLOSURE | EACH | 2.0 | \$160.00 | \$320.00 |
| 45 | 2528-8400048 | TEMPORARY BARRIER RAIL, CONCRETE | LF | 1200.0 | \$15.00 | \$18,000.00 |
| 46 | 2528-8400256 | TEMPORARY TRAFFIC SIGNALS | EACH | 1.0 | \$15,000.00 | \$15,000.00 |

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|----|--------------|---|------|--------|--------------|----------------|
| 47 | 2528-8445110 | TRAFFIC CONTROL | LS | 1.0 | \$25,300.00 | \$25,300.00 |
| 48 | 2528-8445113 | FLAGGERS | EACH | 10.0 | \$600.00 | \$6,000.00 |
| 49 | 2528-9290050 | PORTABLE DYNAMIC MESSAGE SIGN (PDMS) | CDAY | 28.0 | \$55.00 | \$1,540.00 |
| 50 | 2533-4980005 | MOBILIZATION | LS | 1.0 | \$225,900.00 | \$225,900.00 |
| 51 | 2551-0000120 | TEMP CRASH CUSHION, REDIRECTIVE (R) | EACH | 6.0 | \$6,900.00 | \$41,400.00 |
| 52 | 2599-9999005 | ('EACH' ITEM) | EACH | 8.0 | \$400.00 | \$3,200.00 |
| 53 | 2601-2634105 | MULCHING, BONDED FIBER MATRIX | ACRE | 1.0 | \$500.00 | \$500.00 |
| 54 | 2601-2636044 | SEEDING AND FERTILIZING (URBAN) | ACRE | 0.3 | \$750.00 | \$225.00 |
| 55 | 2601-2636070 | HYDRAULIC SEEDING | ACRE | 0.7 | \$1,600.00 | \$1,120.00 |
| 56 | 2601-2642100 | STABILIZING CROP - SEEDING AND FERTILIZING | ACRE | 1.0 | \$375.00 | \$375.00 |
| 57 | 2602-0000020 | SILT FENCE | LF | 2075.0 | \$1.75 | \$3,631.25 |
| 58 | 2602-0000030 | SILT FENCE FOR DITCH CHECKS | LF | 225.0 | \$2.00 | \$450.00 |
| 59 | 2602-0000071 | REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS | LF | 2300.0 | \$0.25 | \$575.00 |
| 60 | 2602-0000101 | MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK | LF | 230.0 | \$0.30 | \$69.00 |
| 61 | 2602-0000312 | PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA. | LF | 675.0 | \$3.50 | \$2,362.50 |
| 62 | 2602-0000320 | PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA. | LF | 975.0 | \$4.00 | \$3,900.00 |
| 63 | 2602-0000351 | REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE | LF | 1650.0 | \$0.50 | \$825.00 |
| 64 | 2602-0010010 | MOBILIZATIONS, EROSION CONTROL | EACH | 7.0 | \$500.00 | \$3,500.00 |
| 65 | 2602-0010020 | MOBILIZATIONS, EMERGENCY EROSION CONTROL | EACH | 1.0 | \$1,000.00 | \$1,000.00 |
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| | | | | | TOTAL: | \$1,731,800.54 |