



Date April 07, 2025

**ORDERING CONSTRUCTION OF
INTELLIGENT TRANSPORTATION SYSTEMS UPGRADE - PHASE 5
AND FIXING A DATE FOR RECEIVING OF BIDS ON APRIL 15, 2025
AND PUBLIC HEARING ON MAY 05, 2025
ENGINEER'S ESTIMATE IS \$1,625,000**

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:

Intelligent Transportation Systems Upgrade - Phase 5, Activity ID 042024009
IDOT Project No. STP-U-1945(877)--70-77

The improvements include removal of pavement, Portland Cement Concrete (PCC) sidewalk paving, and upgrading the communications infrastructure, communications network, dynamic message sign (DMS) installation, traffic signal cabinet/controller and Intelligent Transportation Systems (ITS) equipment of the traffic signal system, all in accordance with the contract documents, including Plan File No. 673-011/100 at the following locations: 41st Street from Germania Drive to Beaver Avenue, Beaver Avenue from 41st Street to Douglas Avenue, Hickman Road from 48th Street to Beaver Avenue, Hickman Road from 30th Street to Martin Luther King Jr. Parkway, Pennsylvania Avenue from EB I-235 ramps to E. University Avenue, WB I-235 ramps from E. 6th Street to Pennsylvania Avenue, E. 6th Street from EB I-235 ramps to WB I-235 ramps, Martin Luther King Jr. Parkway from Cottage Grove Avenue south approximately 1,000 feet, E. University Avenue from E. 25th Street to E. 26th Street, E. University Avenue at Winegardner Road, 2nd Avenue from Vine Street to Court Avenue, Grand Avenue from 2nd Avenue to the Des Moines River bridge, 3rd Street from Crocker Street north approximately 230 feet, 5th Street from School Street south approximately 150 feet, 6th Avenue from Cherry Street south approximately 160 feet, 7th Street from School Street south approximately 130 feet, Keosauqua Way from 12th Street to approximately 380 feet southeast, Fleur Drive from John R Grubb Lane north approximately 500 feet, Fleur Drive from Bell Avenue to approximately 550 feet, in Des Moines, Iowa



Date April 07, 2025

be and the same are hereby approved and accepted. The estimated construction cost for said improvement is \$1,625,000. 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 May 05, 2025, at which time this Council will consider any objections offered thereto or to the making of said improvement.

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 April 15, 2025, after which the bids together with a report and recommendation of the 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.

(Council Communication No. 25-138)

Moved by _____ to adopt. Second by _____

FORM APPROVED:

FUNDS AVAILABLE:

s/Kathleen Vanderpool

s/Nickolas J. Schaul

Kathleen Vanderpool
Deputy City Attorney

Nickolas J. Schaul
Director of Finance

SLN_{pw}

Funding Source: 2024-25 CIP, Page 163, Traffic System Operation Improvements, TR097, Being: \$500,000 (maximum) Surface Transportation Block Grant (STBG) program Federal-aid funds up to 80% of eligible construction costs under STP-U-1945(877)--70-77, and the remaining \$1,125,000 in G.O. Bonds



Roll Call Number

Agenda Item Number

6

Date April 07, 2025

| COUNCIL ACTION | YEAS | NAYS | PASS | ABSENT |
|----------------|------|------|------|--------|
| BOESEN | | | | |
| COLEMAN | | | | |
| GATTO | | | | |
| MANDELBAUM | | | | |
| SIMONSON | | | | |
| VOSS | | | | |
| WESTERGAARD | | | | |
| TOTAL | | | | |

MOTION CARRIED

APPROVED

Mayor

CERTIFICATE

I, Laura Baumgartner, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, 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.

City Clerk

CONSTRUCTION ESTIMATE

DEPARTMENT OF ENGINEERING
CITY OF DES MOINES, IOWA

Activity ID 04-2024-009
IDOT PROJECT NO. STP-U-1945(877)--70-77
DATE: 3/13/2025

PROJECT: INTELLIGENT TRANSPORTATION SYSTEMS UPGRADE - PHASE 5

| NO. | ITEM CODE | DESCRIPTION | ESTIMATED UNITS | | DIVISION 1 | | DIVISION 2 | | TOTAL |
|-----------|--------------|---------------------------------------------------------------------|-----------------|-------------|------------|----------------|------------|------------|--------------|
| | | | UNIT | UNIT PRICE | QUANTITY | AMOUNT | QUANTITY | AMOUNT | |
| 0001 | 2423-0001010 | DYNAMIC MESSAGE SIGN (D.M.S.) INSTALLATION | EACH | \$60,000.00 | 12 | \$720,000.00 | | \$0.00 | \$720,000.00 |
| 0002 | 2510-6745850 | REMOVAL OF PAVEMENT | SY | \$25.00 | 10 | \$250.00 | | \$0.00 | \$250.00 |
| 0003 | 2511-7526006 | SIDEWALK, P.C. CONCRETE, 6 IN. | SY | \$95.00 | 10 | \$950.00 | | \$0.00 | \$950.00 |
| 0004 | 2518-0001200 | ITS CONDUIT, HDPE, 2 INCH BORED | LF | \$14.00 | 3030 | \$42,420.00 | | \$0.00 | \$42,420.00 |
| 0005 | 2518-0001400 | ITS CONDUIT, HDPE, 4 INCH BORED | LF | \$20.00 | 205 | \$4,100.00 | | \$0.00 | \$4,100.00 |
| 0006 | 2518-0006002 | XHHW COPPER WIRE, NO. 2 AWG | LF | \$1.25 | 7944 | \$9,930.00 | | \$0.00 | \$9,930.00 |
| 0007 | 2518-0006004 | XHHW COPPER WIRE, NO. 4 AWG | LF | \$1.25 | 11240 | \$14,050.00 | | \$0.00 | \$14,050.00 |
| 0008 | 2518-0006006 | XHHW COPPER WIRE, NO. 6 AWG | LF | \$1.25 | 5280 | \$6,600.00 | | \$0.00 | \$6,600.00 |
| 0009 | 2518-0006010 | XHHW COPPER WIRE, NO. 10 AWG | LF | \$1.25 | 620 | \$775.00 | | \$0.00 | \$775.00 |
| 0010 | 2518-0006015 | ITS TRACER WIRE 1c #10,(WITH PULL TAPE) | LF | \$2.00 | 25120 | \$50,240.00 | | \$0.00 | \$50,240.00 |
| 0011 | 2518-0007012 | FIBER OPTIC CABLE, 12 SM DIELECTRIC(WITHIN EXISTING CONDUIT) | LF | \$2.75 | 4560 | \$12,540.00 | | \$0.00 | \$12,540.00 |
| 0012 | 2518-0007012 | FIBER OPTIC CABLE, 12 SM DIELECTRIC(WITHIN NEW CONDUIT) | LF | \$2.75 | 1605 | \$4,413.75 | | \$0.00 | \$4,413.75 |
| 0013 | 2518-0007048 | FIBER OPTIC CABLE, 48 SM DIELECTRIC(WITHIN EXISTING BRIDGE CONDUIT) | LF | \$5.00 | 980 | \$4,900.00 | | \$0.00 | \$4,900.00 |
| 0014 | 2518-0007048 | FIBER OPTIC CABLE, 48 SM DIELECTRIC(WITHIN EXISTING CONDUIT) | LF | \$3.25 | 18510 | \$60,157.50 | | \$0.00 | \$60,157.50 |
| 0015 | 2518-0007048 | FIBER OPTIC CABLE, 48 SM DIELECTRIC(WITHIN NEW CONDUIT) | LF | \$3.25 | 2560 | \$8,320.00 | | \$0.00 | \$8,320.00 |
| 0016 | 2518-0008305 | FIBER OPTIC CABLE, REMOVE | LF | \$0.80 | 18385 | \$14,708.00 | | \$0.00 | \$14,708.00 |
| 0017 | 2518-0008360 | SINGLE PANEL HOUSING(HOLDS ONE PANEL WITH SPLICE ORGANIZER) | EACH | \$300.00 | 25 | \$7,500.00 | | \$0.00 | \$7,500.00 |
| 0018 | 2518-0008365 | UPC/SC FACTORY TERMINATED FIBERCONNECTOR AND PIGTAILS | EACH | \$175.00 | 300 | \$52,500.00 | | \$0.00 | \$52,500.00 |
| 0019 | 2518-0008370 | FIBER OPTIC SPLICE CLOSURE(HANDHOLE CONTAINED) | EACH | \$1,000.00 | 12 | \$12,000.00 | | \$0.00 | \$12,000.00 |
| 0020 | 2518-0008385 | FIBER OPTIC SPLICE TRAY, 24 | EACH | \$90.00 | 22 | \$1,980.00 | | \$0.00 | \$1,980.00 |
| 0021 | 2518-0008395 | FIBER OPTIC SPLICE(WITH PROTECTIVE SLEEVE) | EACH | \$75.00 | 294 | \$22,050.00 | | \$0.00 | \$22,050.00 |
| 0022 | 2518-0008400 | FIBER OPTIC CABLE ACCEPTANCE TESTING | LS | \$15,000.00 | 1 | \$15,000.00 | | \$0.00 | \$15,000.00 |
| 0023 | 2523-0000310 | HANDHOLES AND JUNCTION BOXES TYPE 1 | EACH | \$1,400.00 | 6 | \$8,400.00 | | \$0.00 | \$8,400.00 |
| 0024 | 2523-0000310 | HANDHOLES AND JUNCTION BOXES TYPE 3, 24 IN. X 36 IN. | EACH | \$1,600.00 | 4 | \$6,400.00 | | \$0.00 | \$6,400.00 |
| 0025 | 2523-0000310 | HANDHOLES AND JUNCTION BOXES TYPE 4, 30 IN. X 48 IN. | EACH | \$1,800.00 | 2 | \$3,600.00 | | \$0.00 | \$3,600.00 |
| 0026 | 2528-8445110 | TRAFFIC CONTROL | LS | \$15,000.00 | 1 | \$15,000.00 | | \$0.00 | \$15,000.00 |
| 0027 | 2533-4980005 | MOBILIZATION | LS | \$34,640.75 | 1 | \$34,640.75 | | \$0.00 | \$34,640.75 |
| 0028 | 2555-0000010 | DELIVER AND STOCKPILE SALVAGED MATERIALS | LS | \$3,500.00 | | \$0.00 | 1 | \$3,500.00 | \$3,500.00 |
| 0029 | 2599-9999005 | ADVANCED TRAFFIC CONTROLLER (ATC) SYSTEM | EACH | \$6,000.00 | 12 | \$72,000.00 | | \$0.00 | \$72,000.00 |
| 0030 | 2599-9999005 | CONFLICT MONITOR | EACH | \$2,500.00 | 16 | \$40,000.00 | | \$0.00 | \$40,000.00 |
| 0031 | 2599-9999005 | CONNECTOR ADAPTER PANEL, SIX DUPLEX LC | EACH | \$275.00 | 25 | \$6,875.00 | | \$0.00 | \$6,875.00 |
| 0032 | 2599-9999005 | DYNAMIC MESSAGE SIGN (D.M.S.) MOUNTING BRACKET(SPACER) | EACH | \$125.00 | 32 | \$4,000.00 | | \$0.00 | \$4,000.00 |
| 0033 | 2599-9999005 | DYNAMIC MESSAGE SIGN (D.M.S.) SUPPORT STRUCTURE ANDFOOTING | EACH | \$25,000.00 | 4 | \$100,000.00 | | \$0.00 | \$100,000.00 |
| 0034 | 2599-9999005 | METERED PANEL: (120/208V OR 120/240V 'SITE SPECIFIC') | EACH | \$5,850.00 | 12 | \$70,200.00 | | \$0.00 | \$70,200.00 |
| 0035 | 2599-9999005 | NON-METERED PANEL: (120/208V OR 120/240V 'SITE SPECIFIC') | EACH | \$3,300.00 | 12 | \$39,600.00 | | \$0.00 | \$39,600.00 |
| 0036 | 2599-9999005 | ETHERNET SWITCH, INSTALL ONLY | EACH | \$1,000.00 | 24 | \$24,000.00 | | \$0.00 | \$24,000.00 |
| 0037 | 2599-9999005 | POWER SUPPLY / BATTERY BACK-UP SYSTEM | EACH | \$9,000.00 | 5 | \$45,000.00 | | \$0.00 | \$45,000.00 |
| 0038 | 2599-9999005 | PTZ TRAFFIC MONITORING CAMERA SYSTEM | EACH | \$7,500.00 | 6 | \$45,000.00 | | \$0.00 | \$45,000.00 |
| 0039 | 2599-9999005 | REMOVAL OF EXISTING DYNAMIC MESSAGE SIGN (D.M.S.) | EACH | \$4,000.00 | 8 | \$32,000.00 | | \$0.00 | \$32,000.00 |
| 0040 | 2599-9999005 | REMOVE EXISTING FIBER OPTIC LINE TRANSCEIVER | EACH | \$300.00 | 4 | \$1,200.00 | | \$0.00 | \$1,200.00 |
| 0041 | 2599-9999005 | REMOVE EXISTING PORTSERVER DEVICE | EACH | \$300.00 | 4 | \$1,200.00 | | \$0.00 | \$1,200.00 |
| 0042 | 2599-9999010 | CONTROLLER INTEGRATION SUPPORT | LS | \$5,000.00 | 1 | \$5,000.00 | | \$0.00 | \$5,000.00 |
| 0043 | 2599-9999010 | EXCAVATION AND GRADING | LS | \$2,000.00 | 1 | \$2,000.00 | | \$0.00 | \$2,000.00 |
| SUBTOTAL: | | | | | | \$1,621,500.00 | | \$3,500.00 | |

Prepared By: Brett Lewis

Checked By: _____

TOTAL CONSTRUCTION COST \$1,625,000.00