


COUNCIL COMMUNICATION

	Number:	25-019	Meeting:	January 13, 2025
	Agenda Item:	7E	Roll Call:	25-0012
	Submitted by:	Jonathan A. Gano, P.E., Public Works Director, and Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Ordering construction of the following: Hamilton Drain Storm Water Improvements Phase 4 - Receiving bids, (1-28-25), and Setting date of hearing, (2-24-25). (Construction Estimate - \$2,225,000).

SYNOPSIS:

Recommend the City Council order construction of the improvement and set dates to receive bids and hold a public hearing, as required by Iowa Code, utilizing the method of financing referenced below. The project includes the construction of trunk storm sewer from the newly constructed storm water detention basin located at 3610 E. 12th Street to the intersection of E. Ovid Avenue and E. 13th Street. This storm water improvement is the fourth and final phase of the planned Hamilton Drain storm water improvement projects that will reduce storm water flooding in the Highland Park neighborhood and surrounding area.

FISCAL IMPACT:

Amount: \$2,225,000 City Engineer's Estimate

Funding Source: Fiscal Year (FY) 2024-2025 Capital Improvement Program (CIP), Page 94, Hamilton Drainage Area Improvements, SM133, Being: \$2,118,880 in Storm Water Utility funds and the remaining \$106,120 from Des Moines Water Works

ADDITIONAL INFORMATION:

- The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the Hamilton Drain Storm Water Improvements Phase 4, Activity ID 08-2024-001. The improvement includes the construction of 15-inch to 48-inch diameter trenched and trenchless storm sewer, manholes, intakes, subdrain, sanitary sewer, Portland Cement Concrete (PCC) pavement, Hot Mix Asphalt (HMA) paving, removals, PCC sidewalk, PCC driveways, earthwork, water main adjustments, traffic control, fencing, site furnishings, erosion control, and surface restoration, all in accordance with the contract documents including Plan File No. 672-001/108 for the construction of storm sewer trunk from the newly constructed storm water detention basin located at 3610 E. 12th Street to the intersection of E. Ovid Avenue and E. 13th Street.

- The estimated construction cost is \$2,225,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.
- A wood box culvert, known as the Rocky Place Storm Sewer and installed in the 1930s in the Highland Park Neighborhood, conveyed much of the drainage in the watershed generally located west of E. 14th Street, east of 2nd Avenue, north of Hull Avenue, and south of Aurora Avenue. This area experienced flooding in the past and, as a result, the Federal Emergency Management Administration (FEMA) has designated areas in this neighborhood as a Special Flood Hazard Area.
- The City, with the assistance from an engineering consultant, developed a conceptual plan for proposed improvements, known as the Hamilton Drain East System Storm Sewer Improvements, which includes replacement of the old wooden box with new storm sewer pipe having an alternate alignment through the neighborhood, including construction of multiple storm water detention facilities to mitigate flooding and manage storm water. Public meetings were held in October 2017, May 2019, and August 2020 to gather input prior to developing conceptual improvements, obtain feedback on proposed conceptual improvements, and present the final conceptual plan for improvements.
- The Hamilton Drain East System Storm Sewer Improvements is being constructed in four (4) separate phases.
- Phase 1 of the Hamilton Drain East System Storm Sewer Improvements, shown in green in the Overall Phasing Exhibit below, was completed in 2021 and included construction of underground storm water detention basins near the intersections of Amherst Street and E. Shawnee Avenue and an above ground storm water detention basin near the intersection of E. Oak Park Avenue and E. 12th Street.
- Phase 2 of the Hamilton Drain East System Storm Sewer Improvements, shown in teal in the Overall Phasing Exhibit below, was completed in the spring 2024 and included construction of approximately 2,600 lineal feet of 84-inches diameter storm sewer from the new detention basin off Amherst Street and south of E. Madison Avenue to northwest of the intersection of E. Aurora Avenue and Cornell Street, and construction of three (3) new storm water detention basins:
 - 544,000 cubic-feet storage detention basin located northeast of the intersection of 2nd Avenue and NE 43rd Avenue
 - 370,000 cubic-feet storage detention basin located off Amherst Street and south of E. Madison Avenue
 - 260,000 cubic-feet storage detention basin located east of the intersection of Jerlynn Avenue and York Street
- Phase 3 of the Hamilton Drain East System Storm Sewer Improvements, shown in orange in the Overall Phasing Exhibit below, is approximately 85% complete and is estimated to be complete in the spring 2025. Phase 3 includes construction of storm water detention basins at 3801 E. 9th Street (448,000 cubic feet storage) and 3610 E. 12th Street (357,000 cubic-feet storage), and the construction of trunk storm sewer from the new detention basin in the 3900 block of Amherst Street to the intersection of E. Euclid Avenue and Wright Street.

- Phase 4 of the Hamilton Drain East System Storm Sewer Improvements, as indicated in pink in the phasing maps below, is the final phase of this project and includes the construction of approximately 1,052 linear feet of 48-inches diameter storm sewer from the newly constructed storm water detention basin located at 3610 E. 12th Street to the intersection of E. Ovid Avenue and E. 13th Street.
- Construction of this Phase 4 project is anticipated to be completed in fall 2025.

EXHIBIT: Overall Phasing - Hamilton Drain East System Storm Sewer Project

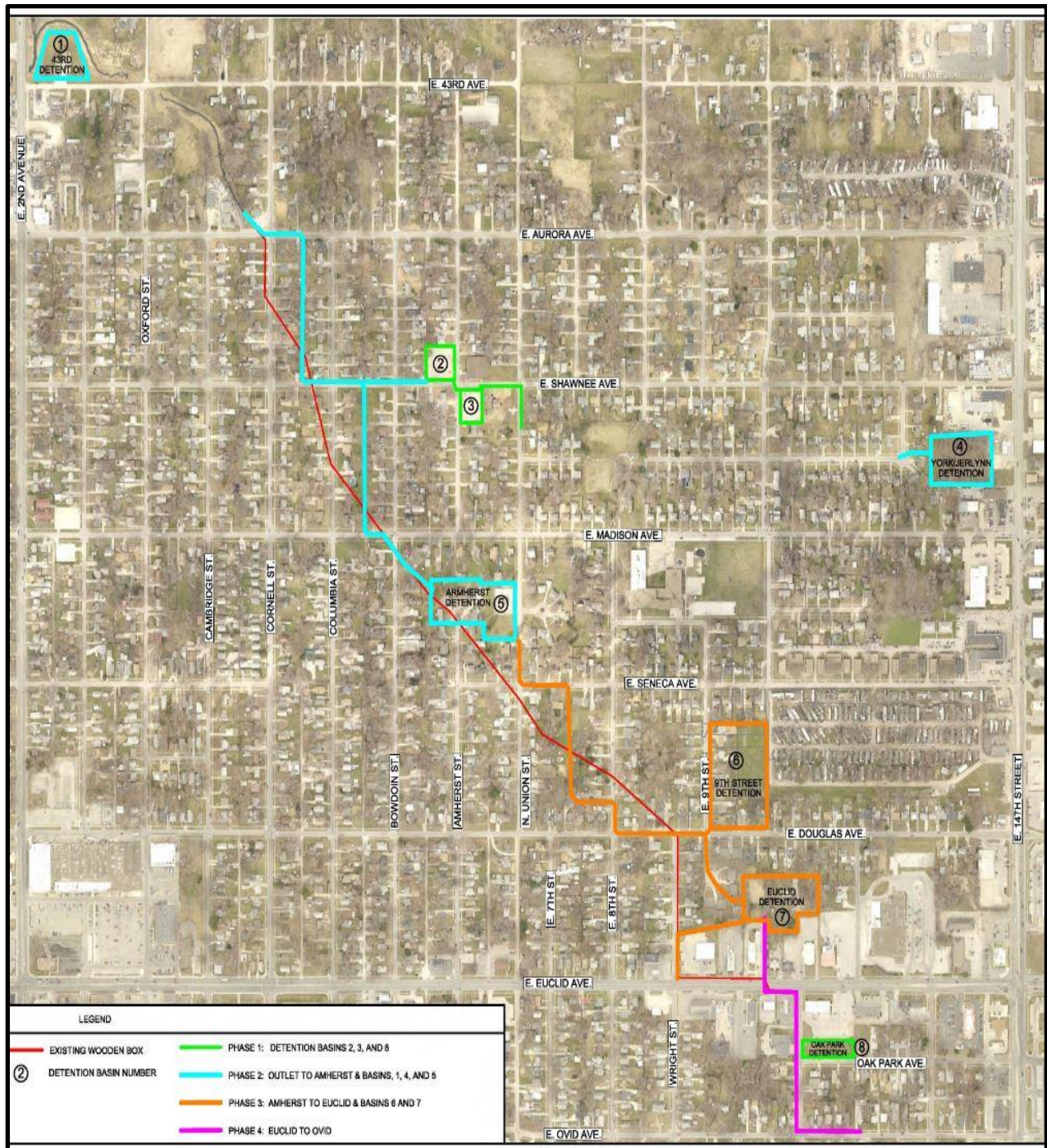
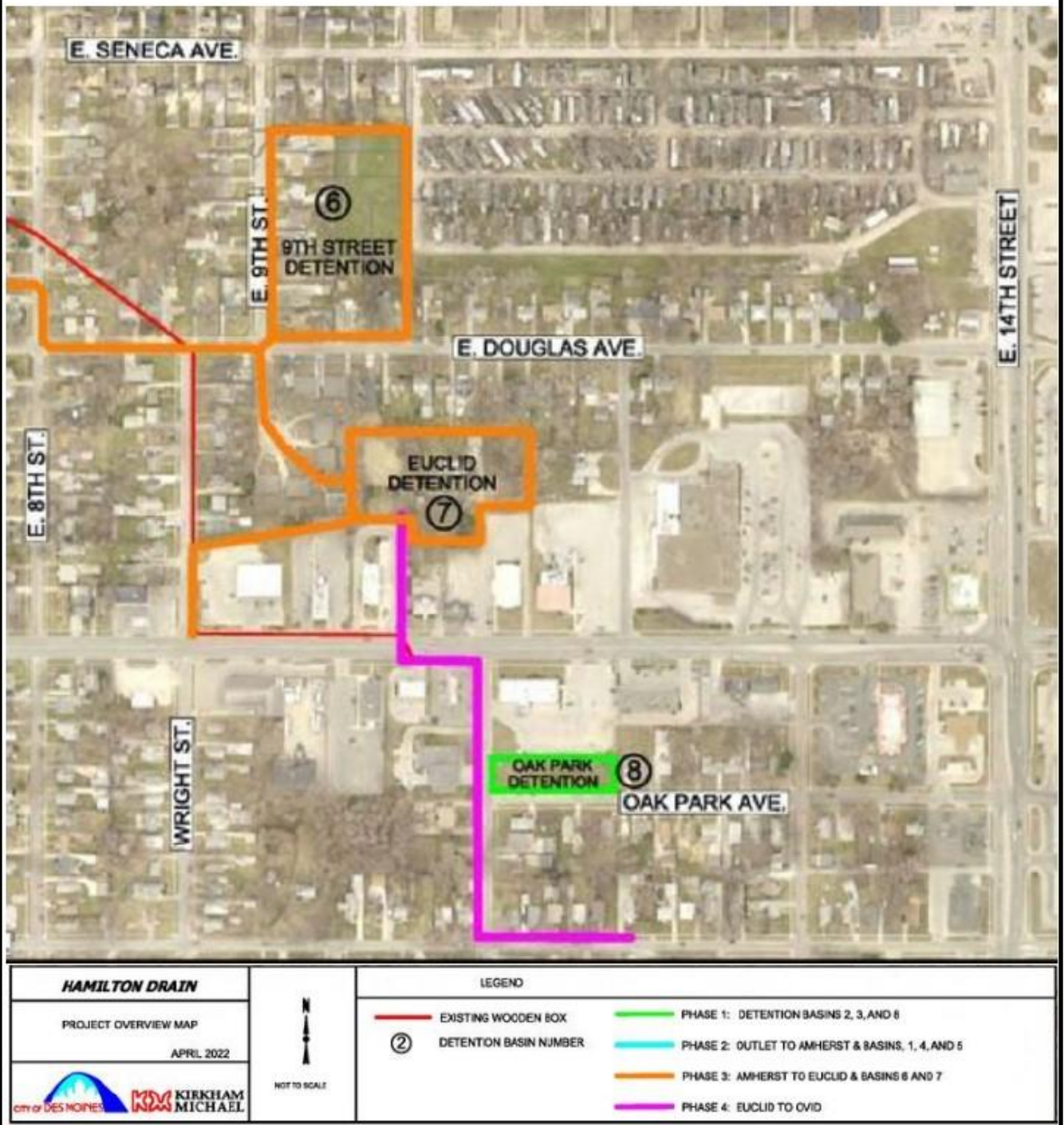


Exhibit: Phase 4 (Final Phase) - Hamilton Drain East System Storm Sewer Project



PREVIOUS COUNCIL ACTION(S):

Date: December 12, 2022

Roll Call Number: [22-1939](#) and [22-1940](#)

Action: On Hamilton Drain Storm Water Improvements Phase 3: Resolution approving plans, specifications, form of contract documents, engineer's estimate, receive and file bids, and designating the lowest responsive, responsible bidder as RW Excavating Solutions, LC (Dan E. Wilson, Managing Member), \$7,723,556.90. ([Council Communication No. 22-574](#)) Moved by Westergaard to adopt. Second by Voss. Motion Carried 7-0.

- (A) Approval of contract and bond and permission to sublet. Moved by Westergaard to adopt. Second by Voss. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Anticipated actions include public hearing, receive and file bids, designate lowest bidder, and approve contract and bond; also partial payments to the contractor and final acceptance of work.

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