



Board of Aldermen Request for Action

MEETING DATE: 5/7/2024

DEPARTMENT: Public Works

AGENDA ITEM: Resolution 1352 - A Resolution authorizing Amendment No. 1 of Authorization No. 94 with HDR Engineering, Inc. for Force Main Bypass of 144th Street Pump Station.

REQUESTED BOARD ACTION:

A motion to approve Resolution 1352, authorizing Amendment No. 1 of Authorization No. 94 with HDR Engineering, Inc. for the design of an alternate alignment of the Force Main Bypass of 144th Street Pump Station in the amount of \$29,920.

SUMMARY:

In October of 2021 the Board approved Resolution 987 authorizing the engineering design of the west force main bypass of the 144th Street pump station.

The City acquired 12 of the 16 easements necessary for the project. In early 2023 the City could not reach agreements with four of the parcels and began the eminent domain process. Recently, the City has settled with three of those properties, however one property remains unresolved. An alternative alignment which would not require use of the property in question has been identified. The City has contacted the owners of the properties along the new proposed alignment, and they are willing to work with the City on easements in order bring this project to fruition.

Amendment No. 1 provides for the design of an alternate alignment of the force main.

The revised project schedule includes:

Anticipated Notice To Proceed (NTP) 05/08/2024
City/Property Owner confirm preferred alignment
Finalize Survey 45 days after NTP & alignment confirmed
Resubmit MDNR Construction Permit 15 days after finished survey
Updated Easement Descriptions to City 15 days after finished survey
Advertise for Bid 15 days after MDNR approval
Anticipated Construction Estimated 300 calendar days after Contractor NTP

The cost for the new alignment design is \$29,920.

PREVIOUS ACTION:

Board Approved Res 987, Approving Authorization No. 94 – Design services

POLICY ISSUE:

Infrastructure Maintenance, Community Oasis

FINANCIAL CONSIDERATIONS:

This project is included in the 2023 CIP

ATTACHMENTS:

- | | |
|--|--|
| <input type="checkbox"/> Ordinance | <input checked="" type="checkbox"/> Contract |
| <input checked="" type="checkbox"/> Resolution | <input type="checkbox"/> Plans |
| <input type="checkbox"/> Staff Report | <input type="checkbox"/> Minutes |
| <input checked="" type="checkbox"/> Other: Alternate Alignment | |

RESOLUTION 1352

A RESOLUTION AUTHORIZING AMENDMENT NO. 1 OF AUTHORIZATION NO. 94 WITH HDR ENGINEERING, INC. FOR THE DESIGN OF AN ALTERNATE ALIGNMENT OF THE FORCE MAIN BYPASS OF 144TH STREET PUMP STATION IN THE AMOUNT OF \$29,920

WHEREAS, the City maintain a waste water collection system for the sanitary collection and treatment of the City's wastewater needs; and

WHEREAS, the 144th Street pump station and the force main bypass are necessary improvements to the City wastewater collection system providing continued service and additional capacity for the City's future growth; and

WHEREAS, the City approved Resolution 987 on October 19, 2021 authorizing the design phase services of Authorization No. 94; and

WHEREAS, acquisition of easement for the project has been challenging and an alternate alignment is desired: and

WHEREAS, HDR has developed Amendment No. 1 in an amount of \$29,920 for the additional design services needed.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF
THE CITY OF SMITHVILLE, MISSOURI:**

THAT the Mayor is hereby authorized to execute Amendment No. 1 to Authorization No. 94 with HDR Engineering, Inc. for additional design services in the amount of \$29,920.

PASSED AND ADOPTED by the Board of Aldermen and **APPROVED** by the Mayor of the City of Smithville, Missouri, the 7th day of May, 2024.

Damien Boley, Mayor

ATTEST:

Linda Drummond, City Clerk

AMENDMENT NO. 1 TO AUTHORIZATION NO. 94
TO
AGREEMENT BETWEEN
CITY OF SMITHVILLE, MISSOURI
AND
HDR ENGINEERING, INC.
FOR
PROFESSIONAL ENGINEERING SERVICES

FORCE MAIN BYPASS OF 144TH STREET PUMP STATION

The City has identified the need for a regional pump station in the southeast portion of the City. A regional pump station will be sized to serve future growth and allow for the decommissioning of the existing Hills of Shannon pump station and future removal of the Forest Oaks Subdivision flow from the Kansas City Rocky Branch Wastewater Treatment Plant (KC WWTP). A pump station will be installed on 144th Street east of HWY 169 and associated force main running approximately 11,900 LF northwest to an existing manhole on Cliff Drive.

In accordance with Section 1.A. of the December 18, 2003, Agreement, ENGINEER is hereby authorized to assist the City with the topographic survey, environmental survey, site investigation, design, preparation of construction documents, bidding assistance, and construction administration for the project.

Amendment Number 1 expands the original scope of the project to evaluate alternate alignments of the force main north of Hwy 92 from Station 106+00 of the current drawings to its discharge to the gravity sewer near Cliff Drive. The original alignment beyond this point is encumbered by an existing well and property acquisition challenges. Potential alternate alignments (red, green, and blue) are shown in the figure below along with the original alignment (cyan). The alternate alignment is anticipated to extend from the original alignment approximately 1,850 LF to an existing gravity sewer where it will be connected by a new doghouse manhole.



The Scope of Services will more specifically include the following project improvements & tasks.

SCOPE OF SERVICES

Tasks 1 through 7 – Part of the Original Work Authorization 94 – Original Scope

Task 8. Additional Topographic Survey

1. Topographic and utility survey – Additional topographic and boundary survey for one (1) City/Owner selected alternate alignment shown above.
2. Easement descriptions and exhibits – Additional Guaranteed Title Reports (GTR), easement descriptions and exhibits for up to two (2) properties.

Task 8 Deliverables: Easement description and exhibits

Task 9. Additional Design (Alternate Alignment)

1. Alternate alignment evaluation – HDR will provide an exhibit with up to three (3) alternate alignments to the City to evaluate with the existing property owners.
2. Update Plans & Specifications – After the City confirms the preferred alternate alignment, HDR will incorporate the update route into the plans and specifications.
3. Opinion of Probable Construction Cost (OPCC) – HDR will update the OPCC to include the revised alignment.
4. Internal QC Review – HDR will perform an internal quality control review on the final plans, project manual, and OPCC additions.
5. Resubmit MDNR Construction Permit – HDR will resubmit sewer construction permit to MDNR.
6. Submit MDNR Land Disturbance Permit – HDR will submit a land disturbance permit to MDNR including developing a Stormwater Pollution Prevention Plan (SWPPP) and Erosion Sediment Control (ESC) plan adjusted for the alternate alignment.
7. Finalize Plans & Specifications – HDR will incorporate comments from the City and MDNR regarding the revisions and finalize the Plans & Specifications for Bid.
8. Overall Project Management – Perform project management, scheduling, invoicing, and cost control for the project.

Task 9 Deliverables: Resubmit MDNR construction permit, Submit MDNR land disturbance permit, and final plans and specs.

Project Assumption

1. The City will coordinate with owners of private property to provide access for consultant's staff.
2. The City will attain any appraisals necessary and will negotiate with and obtain easements from the property owners.
3. The City and property owner(s) shall confirm preferred alignment prior to field survey.
4. The City will provide construction observation and will review results of any testing during construction.

5. The project will only be bid one time.
6. HDR will not acquire additional geotechnical investigation for the alternative alignments. These can be included as added services if it is deemed necessary.
7. New alignment will impact wooded areas. Tree clearing shall be restricted to the period between November 1 and March 31 to avoid disturbing endangered bats under the Endangered Species Act. No additional permitting is anticipated for USACE or SHPO.

Anticipated Project Schedule

Anticipated NTP	05/08/2024
City/Property Owner confirm preferred alignment	
Finalize Survey	45 days after NTP & alignment confirmed
Resubmit MDNR Construction Permit	15 days after finished survey
Updated Easement Descriptions to City	15 days after finished survey
Advertise for Bid	15 days after MDNR approval
Anticipated Construction	Estimated 300 calendar days after Contractor NTP

FEF

The CITY shall compensate ENGINEER for the Force Main Bypass of 144th Street Pump Station in an amount not to exceed \$375,970.00.

Original NTE:	\$346,050.00
Amendment No. 1	<u>\$ 29,920.00</u>
Total Contract NTE:	\$375,970.00

This AUTHORIZATION shall be binding on the parties hereto only after it has been duly executed and approved by the CITY and ENGINEER.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this AGREEMENT in duplicate on the respective dates indicated below.

(SEAL)

CITY: SMITHVILLE, MISSOURI

BY:

Damien Boley

Type or Print Name

TITLE: Mayor

DATE: May 7, 2024

(SEAL)

ENGINEER: HDR Engineering, Inc

BY:



Cory Imhoff, P.E

TITLE: Senior Vice President

DATE: Apr 23, 2024

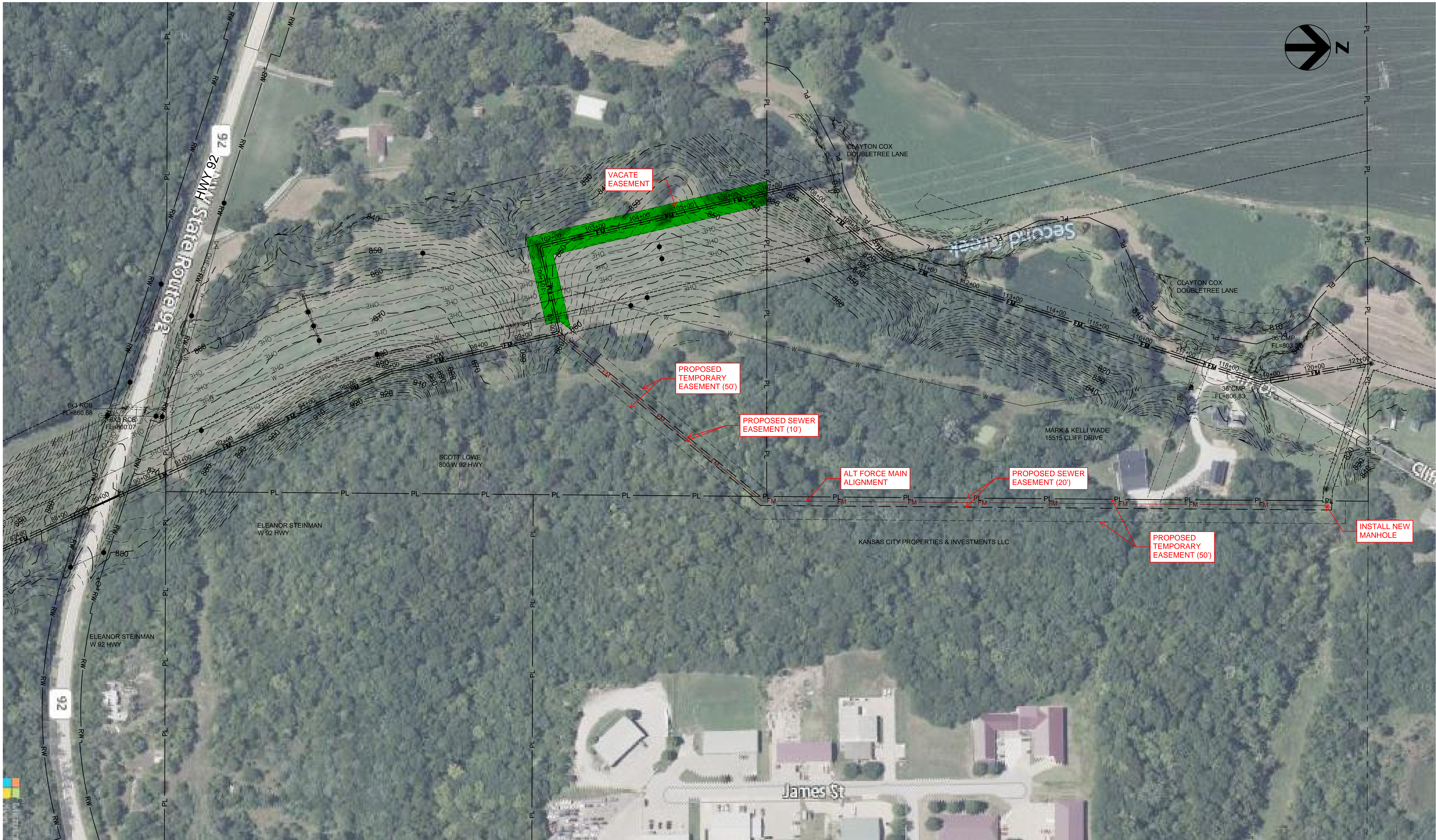
HDR Engineering, Inc.
2024 Hourly Billing Rates
Effective through 12/31/2024

Billing rates will be updated on an annual basis. Employees may move within categories at any time throughout the year based on any salary adjustments incurred by employees. The rates listed below do not include reimbursable expenses.

Description	Billing Rate/Hour
Technical Specialist II/Senior Project Manager III	\$325
Technical Specialist I/Senior Project Manager II	\$300
Senior Project Manager I	\$280
Project/Design Manager IV	\$235
Project/Design Manager III	\$210
Project/Design Manager II	\$185
Project/Design Manager I	\$165
Engineer/Architect/Designer VIII	\$275
Engineer/Architect/Designer VII	\$260
Engineer/Architect/Designer VI	\$235
Engineer/Architect/Designer V	\$205
Engineer/Architect/Designer IV	\$180
Engineer/Architect/Designer III	\$155
Engineer/Architect/Designer II	\$140
Engineer/Architect/Designer I	\$130
Cadd/BIM Manager	\$225
Model Manager/Cadd/GIS Technician VI	\$195
Cadd/GIS Technician V	\$175
Cadd/GIS Technician IV	\$155
Cadd/GIS Technician III	\$140
Cadd/GIS Technician II	\$115
Cadd/GIS Technician I	\$100
Environmental/Water Quality Scientist/Modeler V	\$250
Environmental/Water Quality Scientist/Modeler IV	\$210
Environmental/Water Quality Scientist/Modeler III	\$180
Environmental/Water Quality Scientist/Modeler II	\$140
Environmental/Water Quality Scientist/Modeler I	\$120
Survey Manager	\$190
Construction Manager	\$220
Survey Technician/Construction Inspector V	\$185
Survey Technician/Construction Inspector IV	\$160
Survey Technician/Construction Inspector III	\$140
Survey Technician/Construction Inspector II	\$120
Survey Technician/Construction Inspector I	\$100
Public Involvement/Communications/Graphic Designer IV	\$210
Public Involvement/Communications/Graphic Designer III	\$175
Public Involvement/Communications/Graphic Designer II	\$150
Public Involvement/Communications/Graphic Designer I	\$125
Engineering Support Staff III	\$165
Engineering Support Staff II	\$130
Engineering Support Staff I	\$105
Admin Assistant	\$90

Direct Expenses

Personal Vehicle Mileage	CURRENT IRS RATE
Fleet Vehicle Mileage	\$0.75/mile
Printing	AT COST
Travel	AT COST
Subconsultants	AT COST



**OFF SITE FORCE MAIN
ALTERNATE ALIGNMENT**

SCALE: 1" = 100'