City of Hiawatha

Engineering Department

101 Emmons St., Hiawatha Iowa, 52233-1697
PHONE (319) 393-1515 ext. 511 FAX (319) 393-1516

To: Mayor and City Council **Date: October 30, 2019**

From: John Bender PE, City Engineer

Re: October 2019

Description: Engineering Department Report

- Working with Public Works on various projects as they come up.
- Working with the Community Development Department to review building site plans, final plats, and rezoning requests. Projects under way include the Todd Hills 1st Addition, Sherman 9th and 10th Addition, the library expansion, and Dell Ridge Phase IV.
- The Mid-Town Utility and Street extension contractor, Rathje Construction of Marion, has informed us they will start construction later this year. We held a preconstruction meeting October 17, 2019 with the contractor anticipating starting the underground utilities in November with the paving of the street in early spring. Funding is programmed with LOST 15-24 dollars.
- We approved a contract with Shive Hattery engineers to design the new signal at Center Point Road and Willman Street. The project was bid on June 4, 2019 with the bids coming in considerably above the engineer's estimate. Council tabled any action on the project until such time as we can revise the project and completion date, and rebid the project. We rebid the project on September 24, with the bids coming in 2% over the engineers estimate. Rathje Construction of Marion was the low bidder. Costs for this project have been anticipated with remaining GO funds from the Edgewood Road project and last year's Emmons Street repair project and remaining LOST funds. The contractor will start ordering the equipment immediately as the delivery time on some of the signal equipment takes several months. The completion date for this project is now July of 2020.
- The sanitary sewer extension project on the east side of Edgewood Road approximately 2000 feet south of Hunt Road has encountered bedrock. We have now reevaluated the sewer alignment and developed plans for an open cut sewer project instead of a pipe drilling project. We approved a change order to remove the drilled pipe and install the sewer with open cut process in October. We hope to have the project completed by the end of the year, but the weather has not cooperated to date. This project is funded using the sewer fund and also LOST dollars.

- We have approved a contract with Anderson Bogert Engineers to study railroad crossing "quiet zones" on Center Point Road, Emmons Street, and Blair's Ferry Road. This project will allow the trains to eliminate the horn warnings at these crossings. The Notice of Intent has been completed and submitted to the Federal Railroad Authority. No comments were received after the 60 day waiting period, so we can now proceed with the design contract with the railroad for the new signal gates and lights required at Emmons Street. We will modify our contract with Anderson Bogert to start the design of the new traffic islands. The railroad will provide us an estimate of the design work to be prepared at Emmons Street. This project is funded with GO dollars in the spring of 2020.

- The Robins Road Planning Study has been completed and we are moving forward with the implementation. Our consultant, Bolton Menk of Cedar Rapids, has provided document to help us through the Planning and Zoning process to develop the needed zoning ordinance overlay documents. A joint meeting was held October 28 with the City Council, Planning and Zoning Commission, and the Board of Adjustment to review the prepared documents and the process for implementing the plan.

- We have a contract with MSA professional Services for the resurfacing of 12th Avenue from Blair's Ferry Road about 2000 feet north to just south of Lyndhurst Drive. The project is approximately 80% compete, with all the road reconstruction and asphalt overlay competed. The work that remains is the replacement of the sidewalks with the new ADA ramps at all the intersections. The hope is to complete this project by mid-November. This project is funded with LOST 15-24 dollars.

- We have a contract with Hall and Hall Engineers to prepare the plans and specifications for the widening of 18th Avenue at Blair's Ferry Road. This includes removal of the curbs and widening 18th Avenue to a 3-lane section with new signals as a cooperative project with the City of Cedar Rapids. We how have Midwest Concrete of Peosta working on the removals and placement of the subbase materials. We hope to have the concrete placed within the next week, weather permitting. The funding is included in the CIP for FY21.

- We have a contract with Shive Hattery Engineers to prepare plans for the 2019 Storm Sewer Repair project. We have final plans ready and plan to advertize for bids in the month of November. The completion date for this work has been moved to July of 2020, primarily because the work on Pirie Drive will require a roadway detour. For that reason we want to wait until school is out for the summer before we start work on Pirie Drive. Included in the project is the following areas:

    - Pirie Drive to the west of Nixon Elementary School
    - Raney Street east of 12th Avenue

  We hope to have the project out to bids this fall with completion of the work scheduled for next spring.

- City Council approved a contract with Snyder and Associates as the design consultants for the environmental study/NEPA study /preliminary and final design of the City's approximately 2000 feet of Tower Terrace Road reconstruction. We have the preliminary traffic study and the preliminary concept designs completed to anticipate the opening day and proposed 2040 traffic volumes. We are now moving ahead with the preliminary design which includes the construction of a roundabout at Center Point Road. We are also meeting with the Iowa DOT and the City of Cedar Rapids to finalize the funding options through the Corridor Metropolitan planning Organization. More to come.

I am sure there are other projects I failed to include in the report, but feel free to contact me with questions at any time.

SSM: MEDIANS WITH 2-QUAD GATES

GENERAL CROSSING NOTES:
EXISTING SECTION IS APPROXIMATELY 35' BOC-BOC.
NO GATES ARE PRESENT. INSTALL GATES, BELLS, AND WARNING TIME DEVICES.

CHICAGO, CENTRAL AND PACIFIC RAILROAD, CC (CANADIAN NATIONAL)

INSTALL NEW GATE SYSTEM WITH CONSTANT WARNING TIME DEVICES

12' SETBACK FROM RR CL TO RR ARM CROSSBUCK ASSEMBLY

10' SETBACK FROM RR CL TO GATE ARM/MEDIAN

POSSIBLE ALIGNMENTS FOR FUTURE SIDEWALK PATH

INSTALL W10-9P BELOW EXISTING W10-1 SIGN

NO TRAIN HORN

60' FROM GATE ARM

BOC APPX EXTENSION

3.25' TO CURB FACE

FUTURE SIDEWALK/PEDESTRIAN BRIDGE

GAP IN PROP MEDIAN OVER BRIDGE EXPANSION JOINT

18.4'

S-BUS-40
AASHTO 2011 (US)

EMMONS STREET

4' WIDTH (TYPICAL) SLOPED NOSE OUTSIDE OF 100'

35'

60+' LONG, 8" TALL DOWELED OR FULL DEPTH CURBED MEDIAN WITH DECORATIVE BRICK PAVERS

100' LONG, 8" HEIGHT DOWELED PCC MEDIAN WITH DECORATIVE BRICK PAVERS (SEE DETAIL U.01-A)

APPX. 15' LANES

17.7'

NO TRAIN HORN

INSTALL W10-9P BELOW EXISTING W10-1 ON WEST SIDE OF THE BRIDGE

4' CLEARANCE CENTER POST TO EDGE OF PROP SIDEWALK

3.25' TO CURB FACE

ADJUST PAVEMENT STRIPING TO AID IN CORNER STEERING AND DISCOURAGE WRONG SIDE DRIVING

4TH AVENUE

S-BUS-40
AASHTO 2011 (US)

HIAWATHA CITY HALL

INTERSTATE I-380

REPLACE EXISTING WOOD PAD, EXTEND RUBBER PAD TO ENSURE ADA COMPLIANCE

INSTALL W10-1 AND W10-9P ON NEW POST

R R

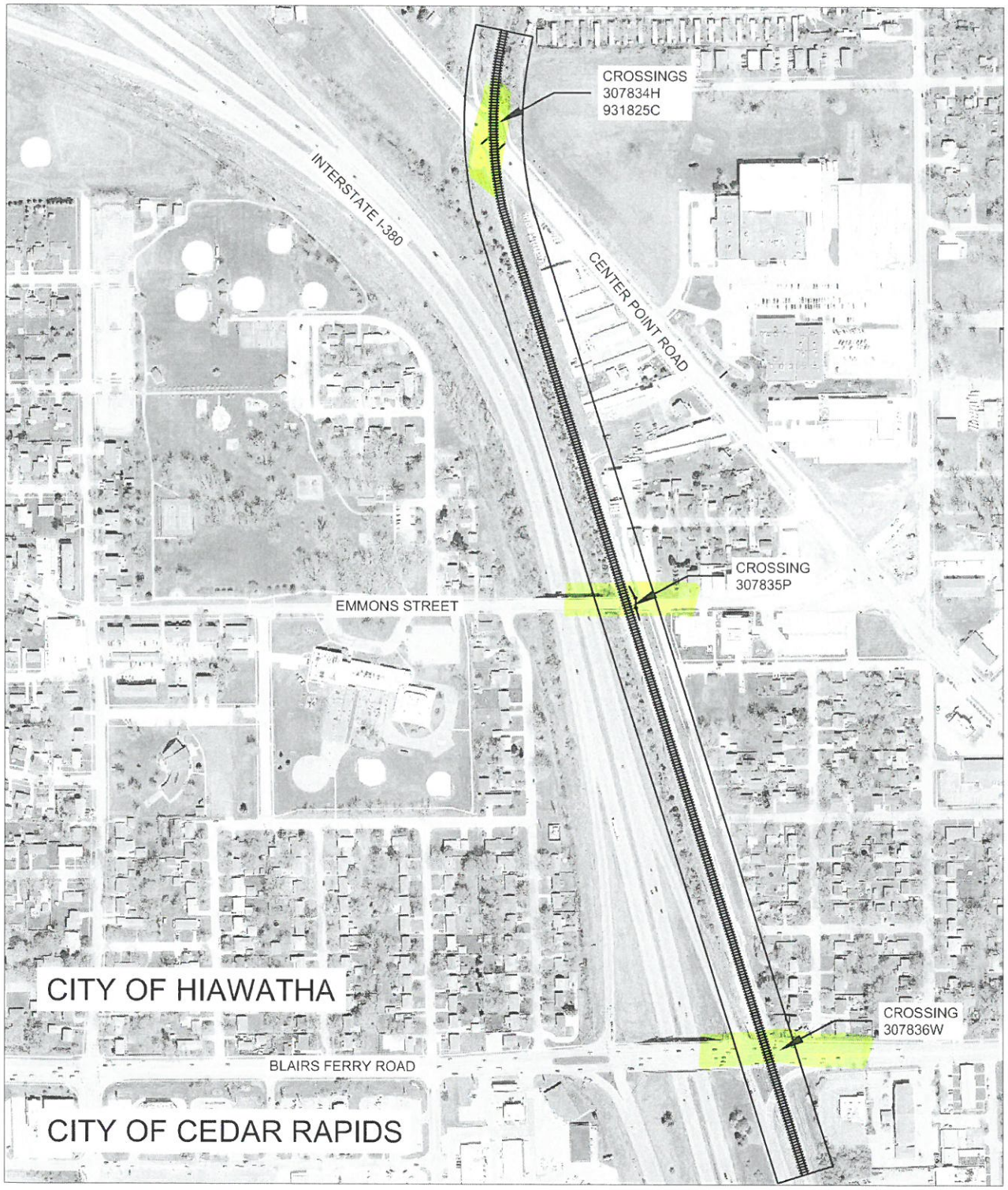
NO TRAIN HORN

INSTALL NEW GATE SYSTEM WITH CONSTANT WARNING TIME DEVICES

ABES PROJECT NO: 218033	DRAWN BY: JMS APPROVED BY: [redacted] DATE: 10/28/19	Hiawatha!	ANDERSON BOGERT	CEDAR RAPIDS CITY OF FIRST CHOICE	HIAWATHA NO CEDAR RAPIDS RAILROAD QUIET ZONE [redacted]	EMMONS ST CONCEPT CROSSING #307835P	SHEET NO D.02 D.06

J:\5354\ \ACAD\218033\Sheets\H033_D_NO.dwg | 10-28-19 03:06:20 PM

Figure 1 - Proposed Quiet Zone Limits



ANDERSON-BOGERT
Engineers & Surveyors

18th Avenue

12th Avenue

PLANS OF PROPOSED IMPROVEMENTS FOR

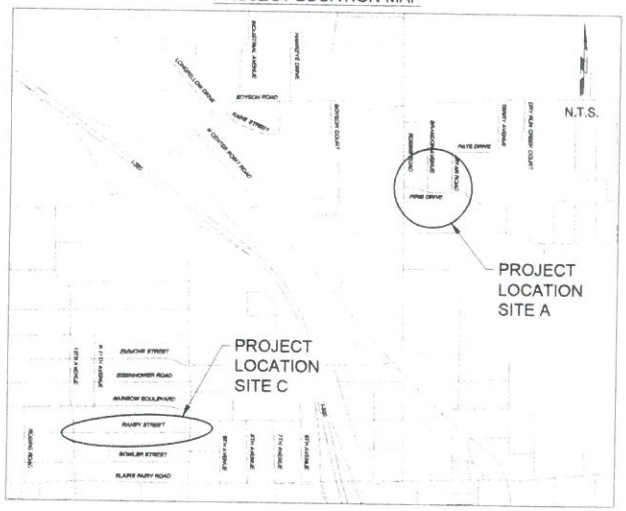
City of Hiawatha

LINN COUNTY, IOWA

Storm Sewer Improvement Project 2019

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS). ALL APPLICABLE SUDAS STANDARD PLANS ARE TO BE USED.

PROJECT LOCATION MAP



TOTAL SHEETS 18

Sheet List Table	
Sheet Number	Sheet Title
A.01	COVER SHEET
A.02	SITE A LOCATION MAP
A.03	SITE C LOCATION MAP
A.04	LEGEND
A.05	SITE A DEMOLITION PLAN
A.06	SITE C DEMOLITION PLAN
A.07	GENERAL NOTES
A.08	GENERAL NOTES
C.01	QUANTITIES AND TABULATIONS
C.02	ESTIMATE REFERENCE NOTES
F.01	SITE A GRADING AND PAVING PLAN
F.02	SITE C GRADING AND PAVING PLAN
J.01	TRAFFIC CONTROL NOTES AND LEGEND
J.02	SITE A TRAFFIC CONTROL PLAN
J.03	SITE C TRAFFIC CONTROL PLAN
M.01	SITE A STORM SEWER PLAN AND PROFILE
M.02	SITE A PARKING LOT STORM SEWER PLAN AND PROFILE
M.03	SITE C STORM SEWER PLAN AND PROFILE

Mayor And City Council

Bill Bennett (Mayor) — Aime Wichtendahl
Denny Norton — Dick Olson
Rob Archibald — Steve Dodson

HIAWATHA PUBLIC WORKS DEPARTMENT

THIS ENGINEERING DOCUMENT IS RECOMMENDED FOR FILING WITH THE CITY CLERK

CITY ENGINEER — DATE

IOWA ONE CALL

1-800-292-8989

The Utilities as shown on this drawing were developed from the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage.

LICENSED PROFESSIONAL ENGINEER
DAVE PANOS
P15579
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

SIGNATURE
NAME DAVE PANOS
DATE 10/29/2019 LICENSE NUMBER 15579
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2020
PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL ALL

SHIVEHATTERY
ARCHITECTURE + ENGINEERING
320 3rd Avenue SE Suite 300 | Cedar Rapids, Iowa 52401
319 366-8021 | www.shivehattery.com
Iowa | Illinois | Indiana

CITY OF HIAWATHA STORM SEWER IMPROVEMENT PROJECT 2019

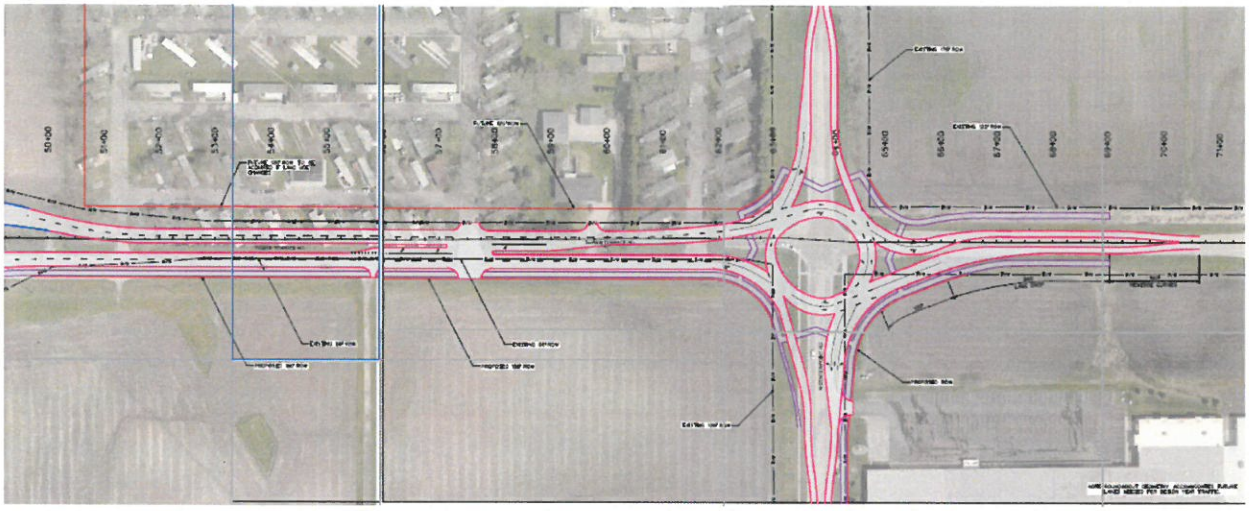
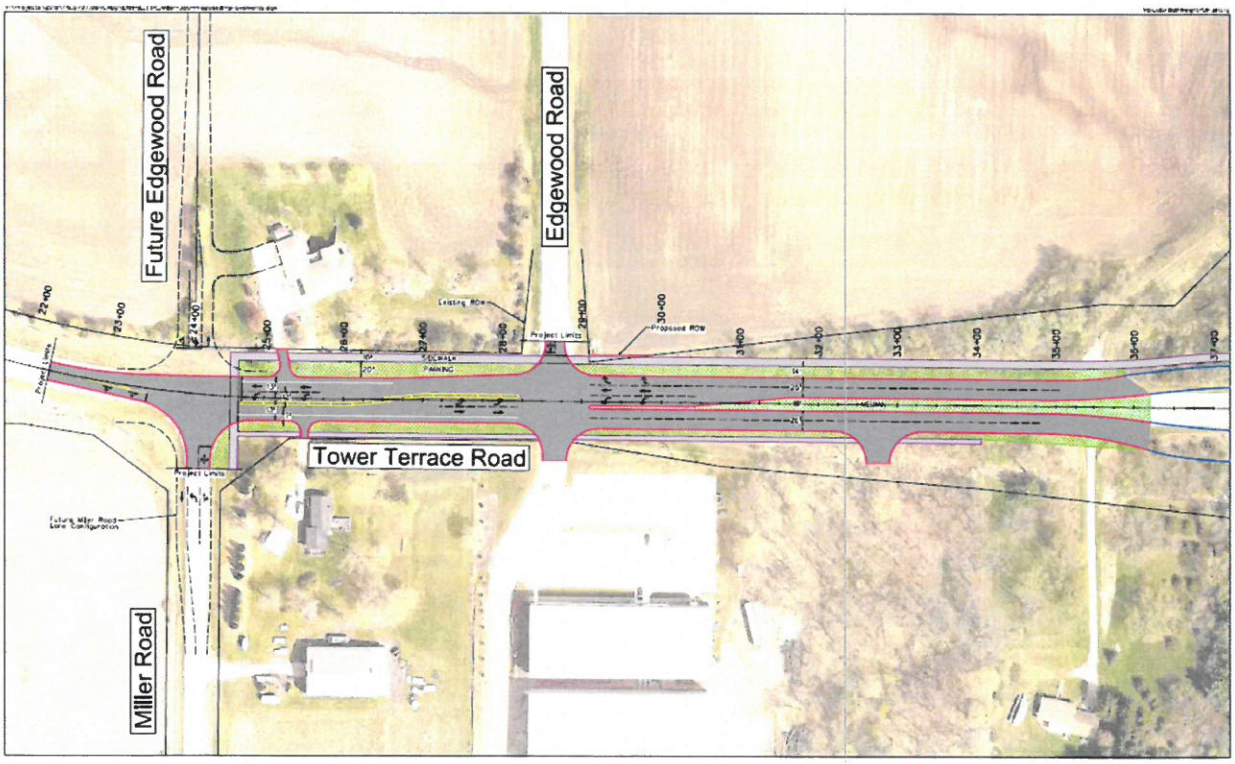
CITY OF HIAWATHA
HIAWATHA, IA

10/29/2019
BID SET
PROJECT NO. 2183890
CLIENT NO.

A.01

Exhibit B - Tower Terrace Road Improvements

City of Hiawatha Tower Terrace Road Improvements



City of Cedar Rapids Tower Terrace Road Improvements