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: May 29, 2019**

From: John Bender PE, City Engineer

Re: **May 2019**

Description: Engineering Department Report

- Working with Public Works on various projects.

- 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 Square 9th, Sherman 10th Addition, Dave Wright Expansion, Pecks Landing, and several new commercial site plans.

- We now have final plans for the Mid-Town Drive roadway and utility construction and the extension of "A" Avenue to serve the proposed Midtown redevelopment. The plans are now out for bids with the scheduled bid date on June 18 at 10:00 AM. The Council will hold a public hearing at the meeting June 19th meeting and award the contract.

- We approved a contract with Shive Hattery Engineers to design the new signal at Center Point Road and Willman Street. The contract will be bid on June 4th. The new signal layout will utilize the "2 signal pole" concept, with mast arms located on only northeast corner and the southwest corner of the intersection. We expanded the project to remove and replace the existing crosswalks and sidewalks required to be rebuilt due to the new signal bases and wiring. With the successful bidding, we propose to have the intersection built by October 1st of this year.

- We have approved a contract with Shive Hattery to look at the roadway surface repairs to the section of Center Point Road between Blair's Ferry Road and Clark Street. This area was last resurfaced in 2003. We have always anticipated adding a new surface in this area as the last improvement to the entire Center Point Road corridor. The first phase of the project was to analyze the options for the best and most cost effective rehabilitation alternative for a new surface. Our initial decision is utilizing the new thin lift overlay product call "HiPro" which reduces the loss of the existing curb height.

- We have approved 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. We have analyzed several methods of reconstruction for this collector street, and because of the deteriorated condition and the traffic volumes, we have determined the most cost effective solution to improve the riding surface of

the street is a "crack and seat" method of reconstruction. The process stabilizes the existing street by pulverizing the concrete and placing a new asphalt overlay on the surface. This eliminates the reflective cracking that happens in a new asphalt surface after years of freeze thaw winters. A large portion of this project is the survey and design work needed to reconstruct the sidewalk ramps to current ADA standards. The approach would be to reconstruct the ramps after the asphalt surface is placed. We have tentatively set June 20th for a public open house to discuss the project with the local residences and inform them of the project schedule.

- The sanitary sewer extension project on the east side of Edgewood Road approximately 2000 feet south of Hunt Road has encountered bedrock that will drastically increase our costs if we proceed with the original plan. The soil borings we took during the preliminary design did not find this area of rock. We are now reevaluating the sewer alignment to see if there are alternative routes to locate this sewer and miss the rock we encountered. We are working with Maxwell Construction from Iowa City, the prime contractor, to come up with a solution. We will bring a plan to Council in June.

- We have approved a contract with Anderson Bogert Engineers to the study railroad crossing "quiet zones" on Center Point Road, Emmons Street, and possibly Blair's Ferry Road. We had our first planning meeting April 10th with the consultant, the Canadian National Railroad, the Federal Railroad Administration, City of Cedar Rapids, and the Iowa DOT to develop design criteria and schedules to proceed with the "letter of intent" for these proposed improvements that allow the trains to eliminate the horn warnings at these crossings. The Iowa DOT performed traffic counts for us on May 7th as a result of a special request to help facilitate the development of the required documents. We will keep Council posted on our progress.

- We now have a draft final report for the Robins Road Planning Study for the area between the new intersection at Center Point Road and Boyson Road. Our consultant, Bolton Menk of Cedar Rapids, has provided the draft for our final review before we take the draft to the Planning and Zoning Commission in June. The schedule will be to receive and file the final report at the City Council in July. We can then develop a schedule to move forward with any revisions to the comprehensive plan and the zoning ordinances. The information regarding new concept proposals can be found on the Hiawatha website at www.hiawatha-iowa.com/news/robinsroadstudy.

- The new Tower Terrace Interchange design is moving forward. This project is scheduled to start construction in fiscal year 2021. The schedule to submit the preliminary plans of the Tower Terrace Interchange, the new I-380 6-lane project, and the Boyson Road Interchange project is early June. More information can be found at: www.iowadot.gov/pim .

- 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 held our design kick-off meeting May 17th. The schedule is to start the preliminary alignment study and traffic study to have the preliminary plans prepared by October of 2019.

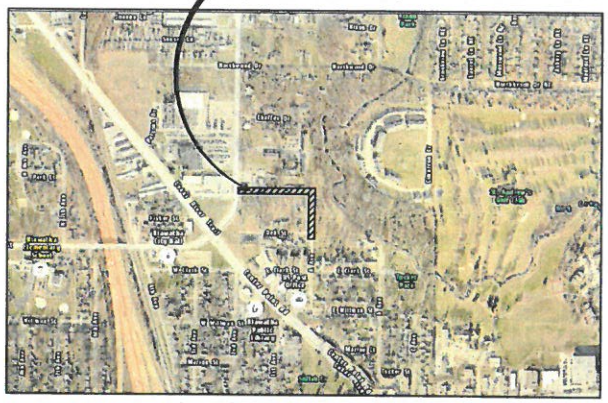
- We held a preliminary design review meeting for the 2019 Storm Sewer repair project on May 30th. We have 3 separate areas we are analyzing and preparing plans for storm water improvements that will help with localized water ponding during heavy rains. More to come as the research continues.

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.

2019 HIAWATHA MIDTOWN UTILITY AND STREET PROJECT

HIAWATHA, IOWA

Project Location Map



Location Map Not To Scale

STANDARD LEGEND AND NOTES

- PROPERTY &/or BOUNDARY LINES
- CONGRESSIONAL SECTION LINES
- RIGHT-OF-WAY LINES
- EXISTING RIGHT-OF-WAY LINES
- CENTER LINES
- EXISTING CENTER LINES
- LOT LINES, INTERNAL
- LOT LINES, PLATTED OR BY DEED
- PROPOSED EASEMENT LINES
- EXISTING EASEMENT LINES
- BENCHMARK
- (R) 22-1 – RECORDED DIMENSIONS / CURVE SEGMENT NUMBER
- –EXIST– / –PROP– – POWER POLE
- POWER POLE W/DROP
- POWER POLE W/TRANS
- POWER POLE W/LIGHT
- GUY POLE
- LIGHT POLE
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- DRAINAGE MANHOLE
- CURB INLET
- FENCE LINE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- WATER LINES
- ELECTRICAL LINES
- TELEPHONE LINES
- GAS LINES
- CONTOUR LINES (1' INTERVAL)
- PROPOSED GROUND
- EXISTING TREE LINE
- EXISTING DECIDUOUS TREE & SHRUB
- EXISTING EVERGREEN TREES & SHRUBS

THE ACTUAL SIZE AND LOCATION OF ALL PROPOSED FACILITIES SHALL BE VERIFIED WITH CONSTRUCTION DOCUMENTS, WHICH ARE TO BE PREPARED AND SUBMITTED SUBSEQUENT TO THE APPROVAL OF THIS DOCUMENT.

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C3.1	GRADING AND EROSION CONTROL PLAN AND SWPPP
C4.0	PAVING PLAN AND PROFILE: NEW ROAD
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C5.0	SANITARY SEWER PLAN AND PROFILE
C6.0	STORM SEWER PLAN AND PROFILE
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C8.2	PAVEMENT MARKING DETAILS

UTILITY COMPANY CONTACTS

SERVICE	SUPPLIER	PHONE NO.
TELEPHONE & CABLE TV	CENTURYLINK ATTN: TOM STURMER	319-399-7600(W SIDE) 319-399-7480(E SIDE)
TELEPHONE & CABLE TV	MEDIACOM	BUS: 319-395-9699 LOC: 800-292-8989
TELEPHONE & CABLE TV	WINDSTREAM	BUS: 641-269-7725 LOC: 800-292-8989
TELEPHONE & CABLE TV	IMON	319-261-4670
TELEPHONE & CABLE TV	UNITED PUBLIC NETWORKS	BUS: 515-414-3538 LOC: 866-813-3608
TELEPHONE & CABLE TV	IOWA NETWORK SERVICES	515-230-2385
ENGINEERING DEPT.	CITY OF HIAWATHA	319-393-1315
PUBLIC WORKS	CITY OF HIAWATHA	319-393-6601
POLICE	CITY OF HIAWATHA	319-393-1212
FIRE	CITY OF HIAWATHA	319-393-1480
NATURAL GAS	MIDAMERICAN ENERGY	319-298-5162
ELECTRICITY	ALLIANT ENERGY	319-786-1912
WATER	CITY OF HIAWATHA	319-393-5556
SEWER	CITY OF HIAWATHA ATTN: LINDA J. BENDIXEN	319-393-6601

MAYOR AND CITY COUNCIL
BILL BENNETT (MAYOR)
DENNY NORTON
ROB ARCHIBALD
AIME WICHTENDAHL
DICK OLSON
STEVE DODSON

JOHN C. BENDEX, P.E. CITY ENGINEER — DATE 5/29/2019

UTILITIES

THE CONTRACTOR SHALL NOTIFY IOWA ONE CALL NO LESS THAN 48 HRS. IN ADVANCE OF ANY DIGGING OR EXCAVATION.

IOWA ONE CALL 800/292-8989

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

LICENSED PROFESSIONAL ENGINEER
SCOTT B. POTTORFF 16932
IOWA
SEAL

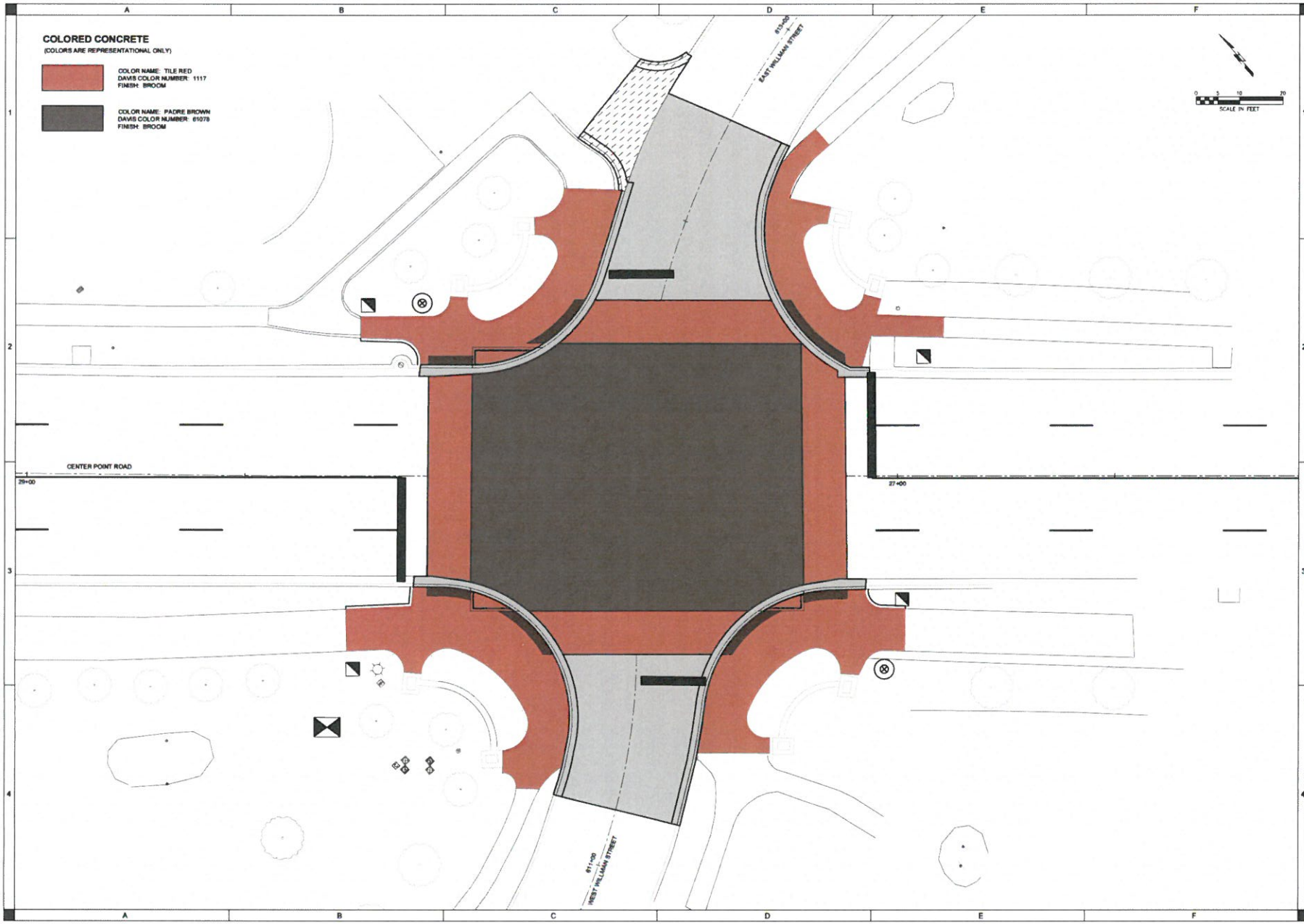
I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

_____ 20____
SCOTT B. POTTORFF, P.E. Iowa Lic. No. 16932

My license renewal date is December 31, 20____.

Pages or sheets covered by this seal:

Drawn By: JEB/DLC Approved By: SBP Date: 5-27-2019		Project No. 5671-003	CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECTS ENVIRONMENTAL SPECIALISTS	1917 S. GILBERT ST. IOWA CITY, IOWA 52240 (319) 351-8282 www.mmsconsultants.net	2019 HIAWATHA MIDTOWN UTILITY AND STREET PROJECT HIAWATHA, IA	TITLE SHEET	Sheet No. C1.0



SHIVEHATTERY
ARCHITECTURE + ENGINEERING
316 Second Street SE Suite 300 | Cedar Rapids, Iowa 52401
319.365.4757 | www.shivehattery.com
Iowa | Illinois | Indiana

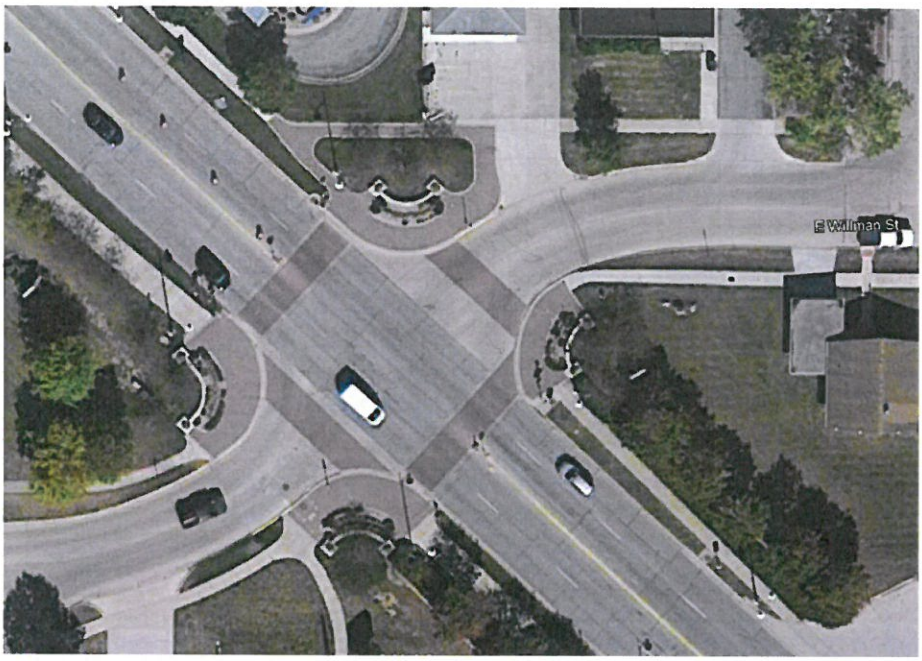
CENTER POINT ROAD &
WILLMAN STREET
TRAFFIC SIGNAL
CITY OF HIAWATHA

DRAWN: BH
APPROVED: MHJ
ISSUED FOR: CONSTRUCTION
DATE: 06-05-2019
PROJECT NO: 218080
FIELD BOOK: —
CLIENT NO:

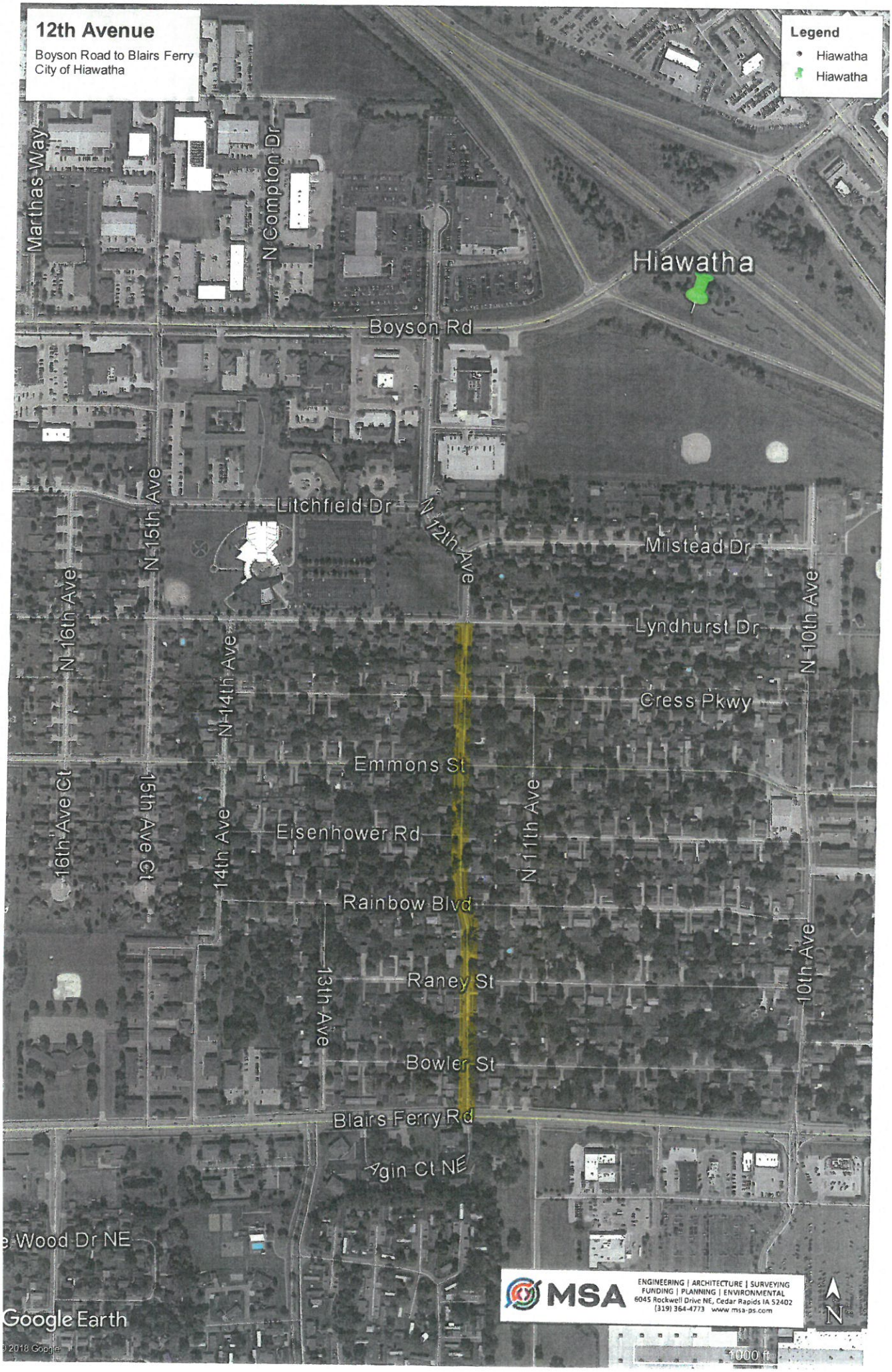
INTERSECTION LAYOUT

E.02

Center Point Road and Willman St intersection reconstruction and traffic signal installation.



Center Point Road ACC mill and overlay project from E. Clark St to Blairs Ferry Rd.


12th Avenue
Boyson Road to Blairs Ferry
City of Hiawatha
Legend
Hiawatha
Hiawatha
Hiawatha
Marthas Way
N Compton Dr
Boyson Rd
Litchfield Dr
N 12th Ave
Milstead Dr
N 15th Ave
N 16th Ave
Lyndhurst Dr
N 10th Ave
N 14th Ave
Cress Pkwy
Emmons St
16th Ave Ct
15th Ave Ct
14th Ave
N 11th Ave
Eisenhower Rd
Rainbow Blvd
13th Ave
Raney St
10th Ave
Bowler St
Blairs Ferry Rd
Agin Ct NE
Wood Dr NE
Google Earth
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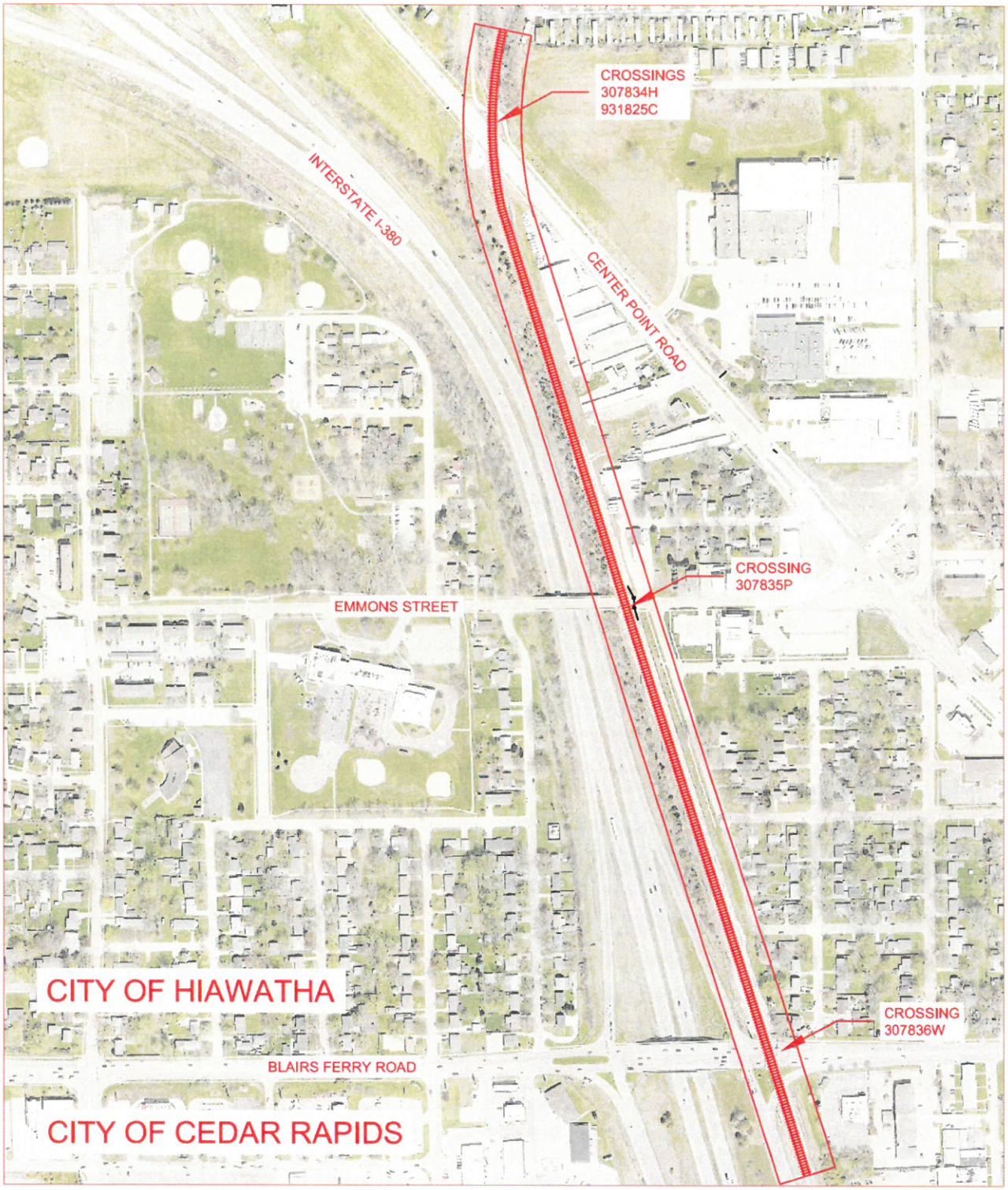
MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
6045 Rockwell Drive NE, Cedar Rapids IA 52402
(319) 364-4773 www.msa-ps.com
N
1000 ft

Figure 1 - Proposed Quiet Zone Limits



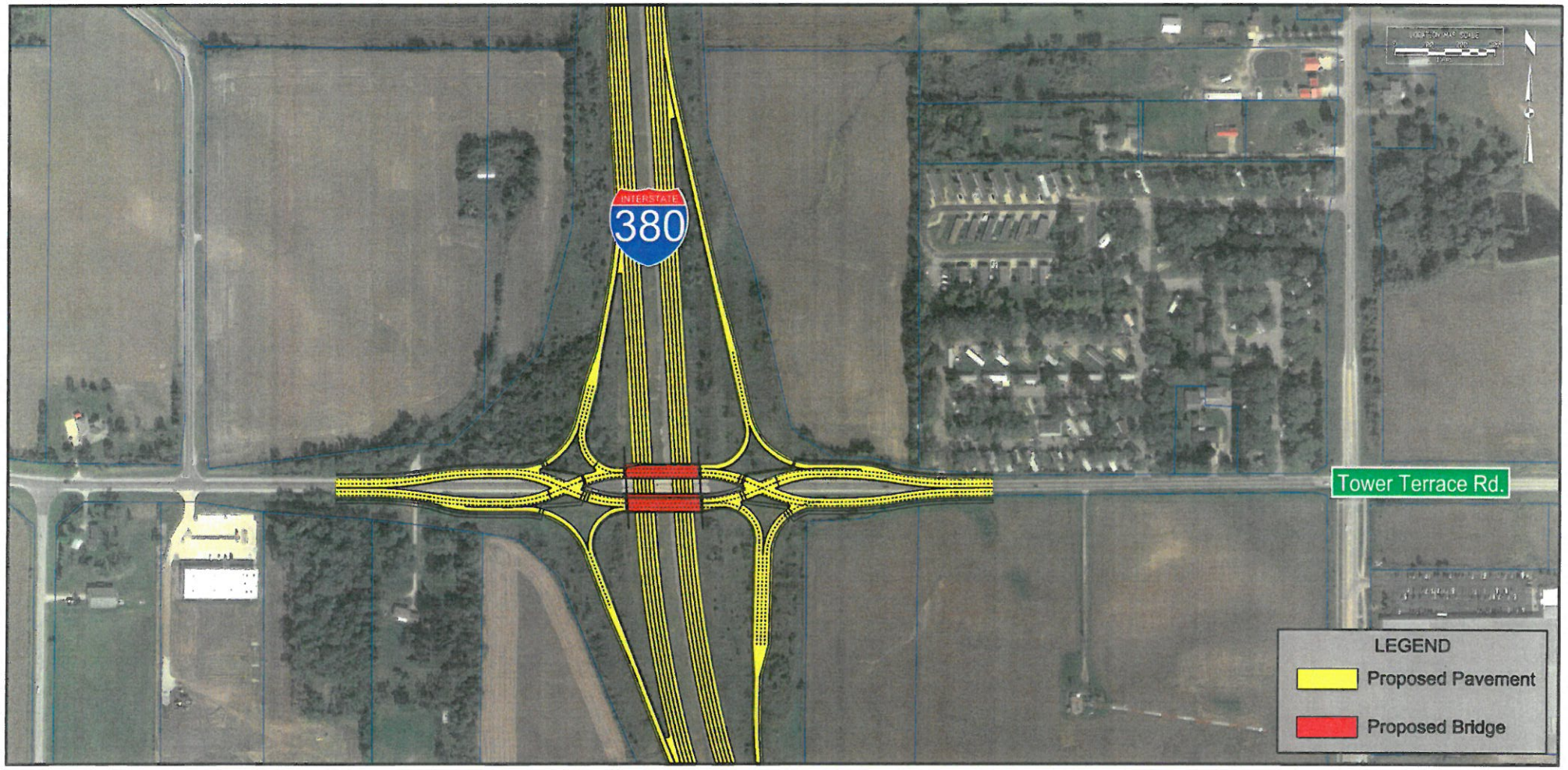
ANDERSON-BOGERT
Engineers & Surveyors

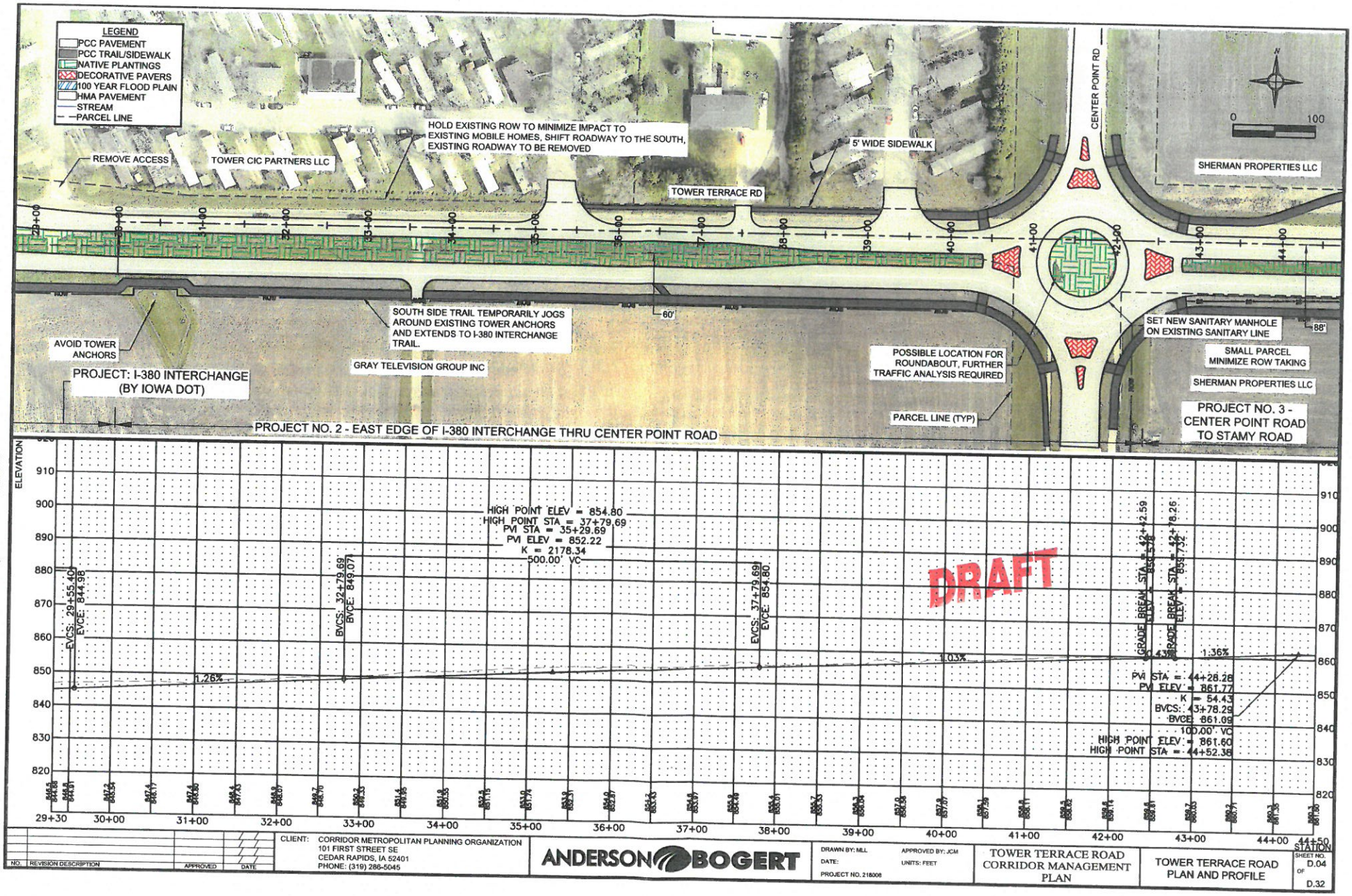
DRAFT

ROBINS ROAD CORRIDOR STUDY

CITY OF HIAWATHA, IA

Hiawatha!


INTERSTATE
380
Tower Terrace Rd.
LEGEND
Proposed Pavement
Proposed Bridge



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NO.	REVISION DESCRIPTION	APPROVED	DATE

CLIENT: CORRIDOR METROPOLITAN PLANNING ORGANIZATION
101 FIRST STREET SE
CEDAR RAPIDS, IA 52401
PHONE: (319) 286-5045

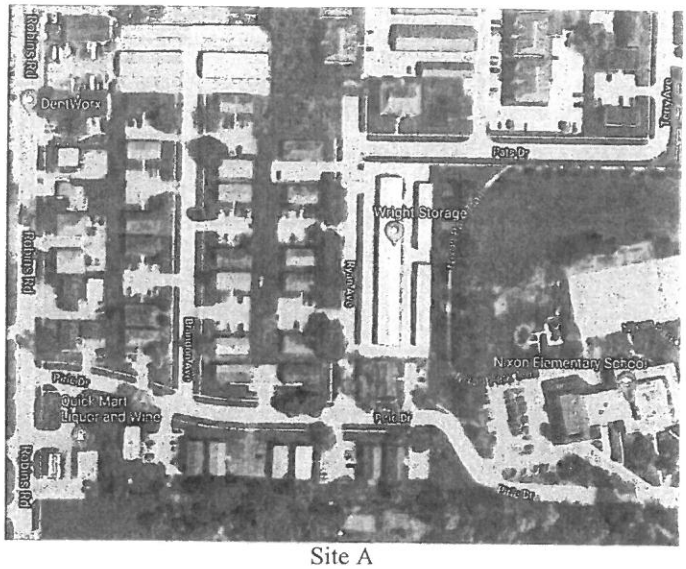
ANDERSON BOGERT

DRAWN BY: MLL
DATE:
PROJECT NO. 218008
APPROVED BY: JCM
UNITS: FEET

TOWER TERRACE ROAD CORRIDOR MANAGEMENT PLAN

TOWER TERRACE ROAD PLAN AND PROFILE

SHEET NO. D.04 OF D.32



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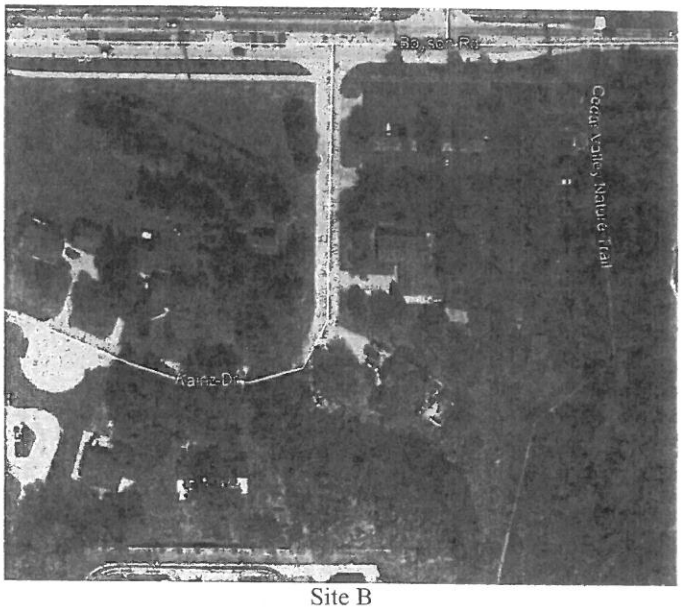

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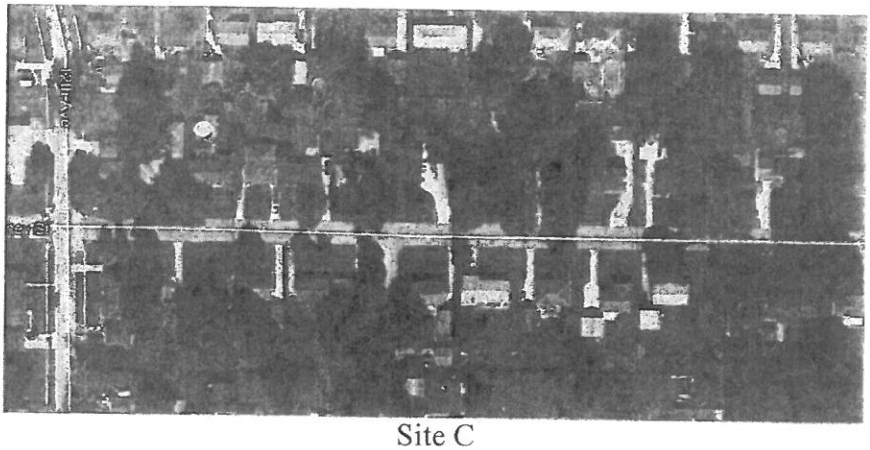

Site C