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: July 30, 2019**

From: John Bender PE, City Engineer

Re: July 2019

Description: Engineering Department Report

- Working with Public Works on the dog park projects and other 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 Pecks Addition, Todd Hills 1st Addition, Sherman 9th and 10th Addition, the library expansion, Dell Ridge Phase IV, and several new commercial site plans.
- The Mid-Town Utility and Street extension contractor, Rathje Construction of Marion, has informed us they will start construction later this year. We do not know the exact date. This project is the utility and roadway construction of "A" Avenue to serve the Oakbrook redevelopment area. The final grading and clean up can happen in the spring of 2020. 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 discuss a new course of action. We have also 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. The new plan is to combine these 2 projects together into one large project to be completed next year. We have a small contract amendment to the Shive design contract on the agenda to repackage the project and develop new bidding documents. The 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 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. 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 now have a new property owner that will allow us to consider the open-cut method of the sewer installation rather than the drilling method and

also consider additional development possibilities of this area. 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. We had taken traffic counts at all 3 locations with assistance from the Iowa DOT. This project will allow the trains to eliminate the horn warnings at these crossings. We are working to get a cost estimate (ballpark only) to install constant warning time devices at Center Point and Blair Ferry based on the existing equipment. We also need to verify that their existing equipment and arms are compliant with existing median island geometries at Center Point and Blairs Ferry. Furthermore, if the current gates for some reason aren't correct, we would want to note this on the Notice of Intent. When we get this information we can prepare the documentation to move forward with this project and send to the Federal Railroad Authority. 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 a scope and fee to help us through the Planning and Zoning process to develop the needed zoning ordinance overlay documents. We have a plan to bring all the necessary ordinance revisions to Council in August.

- We have a contract with MSA professional Services for the resurfacing of 12th Avenue from Blair'sFerry Road about 2000 feet north to just south of Lyndhurst Drive. The project was bid on July 11, 2019 with the lowest bid from LL Pelling from North Liberty. We are now working the contractor to schedule a pre-construction meeting for completion of this project by November of this year. 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. Cedar Rapids has informed us they are working with property owners to create a new access to the Fountains Commercial Addition that will develop the 18th Avenue/ Blair's Ferry Road intersection into a 4-way intersection. However they are a least 2 years out to work with the property owners and develop all the access agreements to accomplish this project. Our approach would be to proceed with our widening project that can then be incorporated into the Cedar Rapids design elements for the remainder of the intersection to be constructed in the next year or two. We now have a draft plan that we are reviewing in order to take quotes from contractors to complete this phase of our project this fall. We have our funding included in the CIP for FY21.

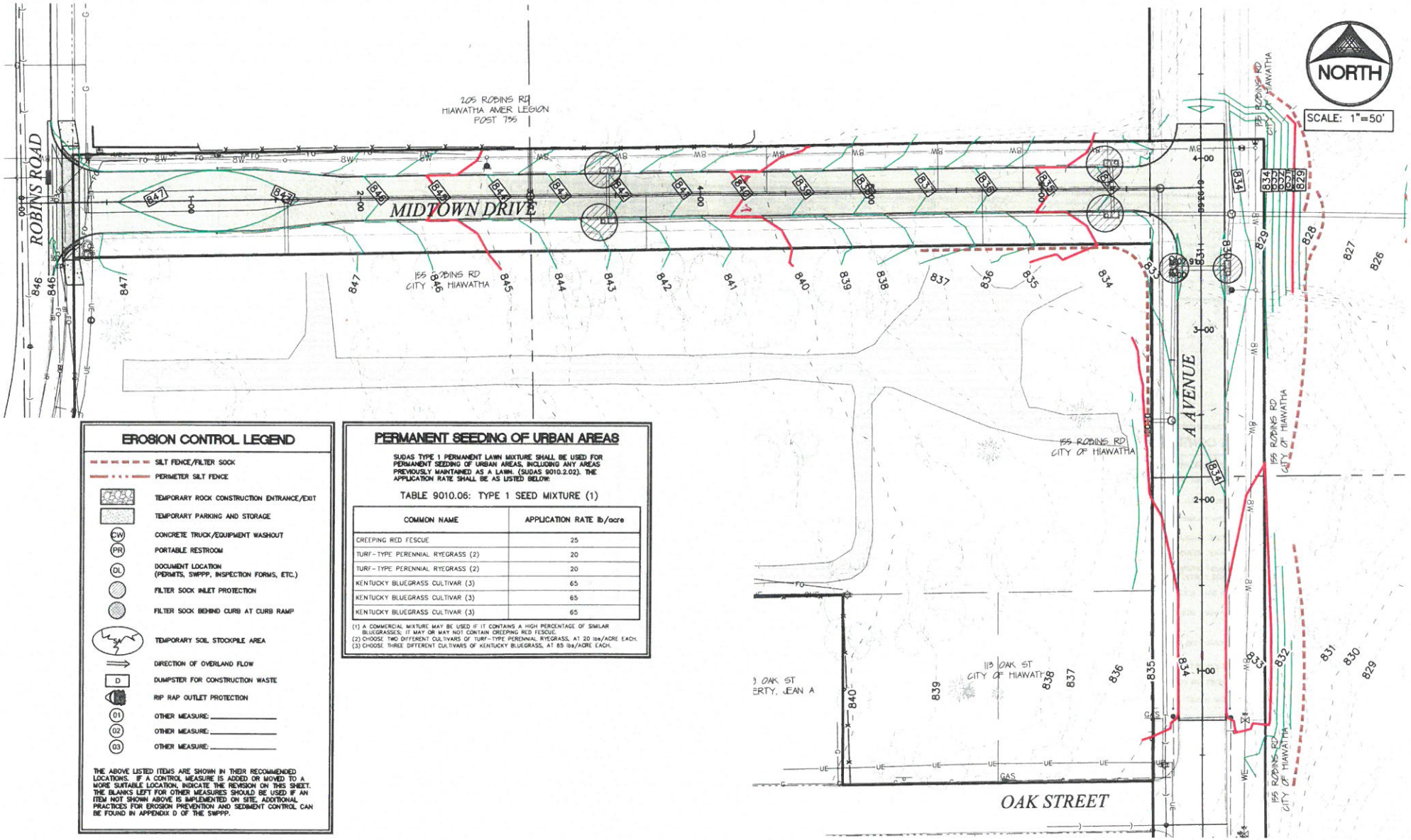
- We have a contract with Shive Hattery Engineers to prepare plans for the 2019 Storm Sewer Repair project. There several areas of concern for storm water issues that have been brought to the attention of staff and the City Council. These are areas that citizens have approached us for solutions to some existing storm water drainage problems that have mostly existed for a number of years. We have taken the approach that we will keep these areas on a list for Council and when funds become available, we could have the design work done that will allow us to hire a contractor to make the needed repairs. We have draft plans for three storm sewer improvements projects be included in one bid package:

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

We are now working to meet with property owners to acquire the needed construction easements that will allow us to complete the work.

- 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 also attempting to reduce the proposed new right-of-way needs as much as possible. We will keep Council updated on our progress.

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.



EROSION CONTROL LEGEND

- SILT FENCE/FILTER SOCK
- PERIMETER SILT FENCE
- TEMPORARY ROCK CONSTRUCTION ENTRANCE/EXIT
- TEMPORARY PARKING AND STORAGE
- CW — CONCRETE TRUCK/EQUIPMENT WASHOUT
- PR — PORTABLE RESTROOM
- DL — DOCUMENT LOCATION (PERMITS, SWPPP, INSPECTION FORMS, ETC.)
- FILTER SOCK INLET PROTECTION
- FILTER SOCK BEHIND CURB AT CURB RAMP
- TEMPORARY SOIL STOCKPILE AREA
- DIRECTION OF OVERLAND FLOW
- D — DUMPSTER FOR CONSTRUCTION WASTE
- RIP RAP OUTLET PROTECTION
- 01 — OTHER MEASURE: _____
- 02 — OTHER MEASURE: _____
- 03 — OTHER MEASURE: _____

THE ABOVE LISTED ITEMS ARE SHOWN IN THEIR RECOMMENDED LOCATIONS. IF A CONTROL MEASURE IS ADDED OR MOVED TO A MORE SUITABLE LOCATION, INDICATE THE REVISION ON THIS SHEET. THE BLANKS LEFT FOR OTHER MEASURES SHOULD BE USED IF AN ITEM NOT SHOWN ABOVE IS IMPLEMENTED ON SITE. ADDITIONAL PRACTICES FOR EROSION PREVENTION AND SEDIMENT CONTROL CAN BE FOUND IN APPENDIX D OF THE SWPPP.

PERMANENT SEEDING OF URBAN AREAS

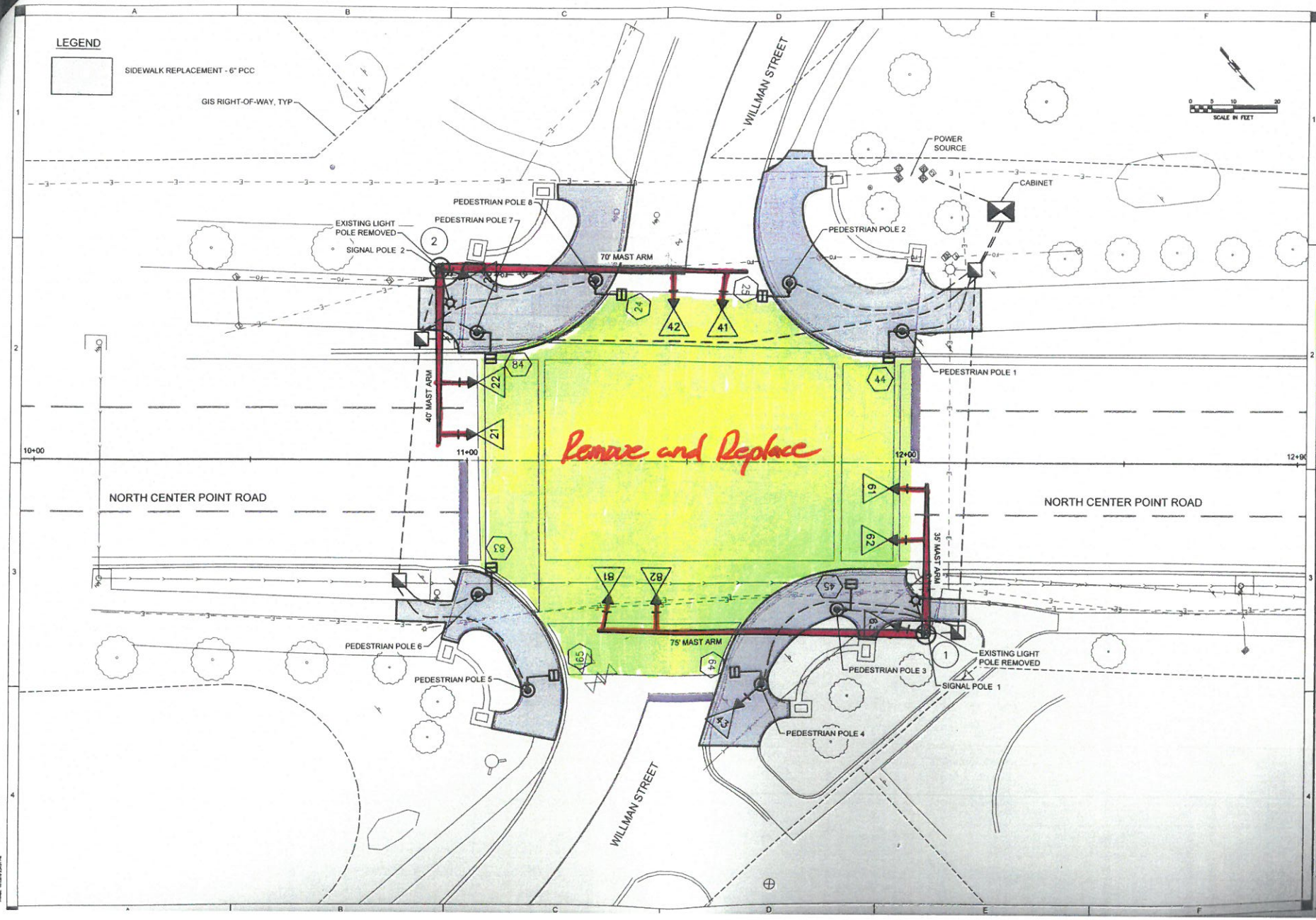
SUDAS TYPE 1 PERMANENT LAWN MIXTURE SHALL BE USED FOR PERMANENT SEEDING OF URBAN AREAS, INCLUDING ANY AREAS PREVIOUSLY MAINTAINED AS A LAWN. (SUDAS 9010.2.02). THE APPLICATION RATE SHALL BE AS LISTED BELOW:

TABLE 9010.06: TYPE 1 SEED MIXTURE (1)

COMMON NAME	APPLICATION RATE lb/acre
CREEPING RED FESCUE	25
TURF-TYPE PERENNIAL RYEGRASS (2)	20
TURF-TYPE PERENNIAL RYEGRASS (2)	20
KENTUCKY BLUEGRASS CULTIVAR (3)	65
KENTUCKY BLUEGRASS CULTIVAR (3)	65
KENTUCKY BLUEGRASS CULTIVAR (3)	65

(1) A COMMERCIAL MIXTURE MAY BE USED IF IT CONTAINS A HIGH PERCENTAGE OF SIMILAR BLUEGRASSES; IT MAY OR MAY NOT CONTAIN CREEPING RED FESCUE.
(2) CHOOSE TWO DIFFERENT CULTIVARS OF TURF-TYPE PERENNIAL RYEGRASS, AT 20 lbs/ACRE EACH.
(3) CHOOSE THREE DIFFERENT CULTIVARS OF KENTUCKY BLUEGRASS, AT 65 lbs/ACRE EACH.

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	GRADING AND EROSION CONTROL PLAN AND SWPPP	Sheet No. C3.0



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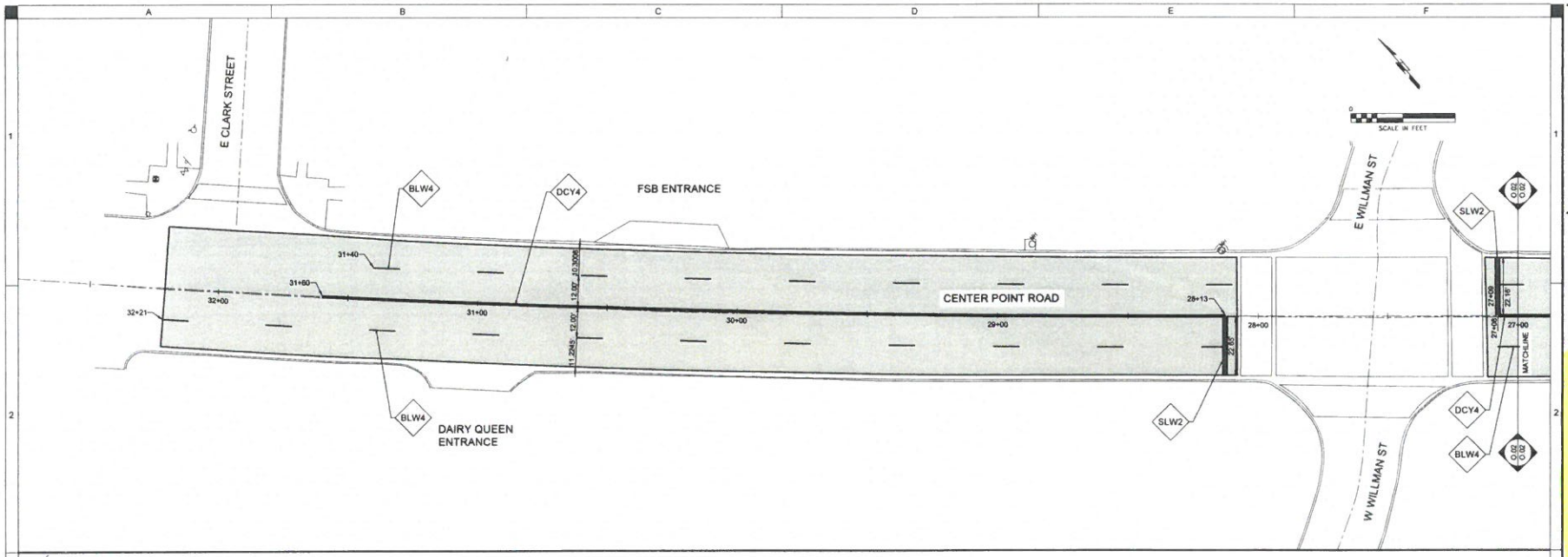
WILLMAN STREET/NORTH CENTER POINT ROAD INTERSECTION IMPROVEMENTS

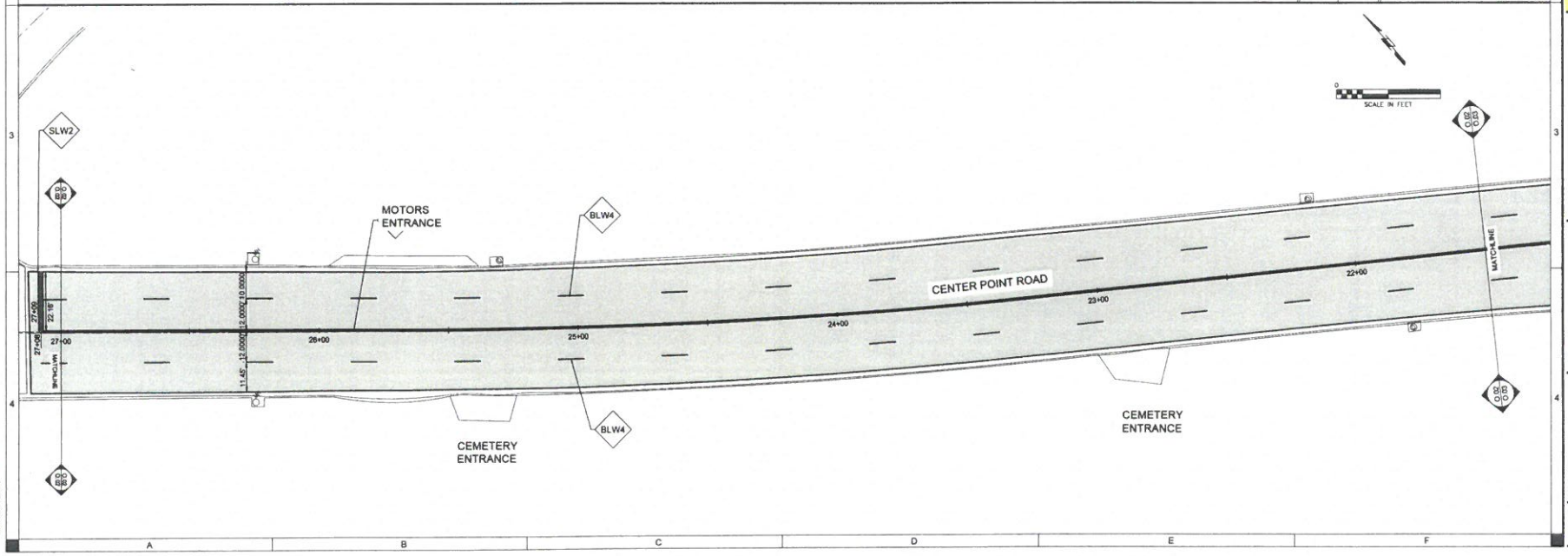
PRELIMINARY - NOT FOR

DRAWN: EAV
APPROVED: BH
ISSUED FOR: PRELIMINARY PLANS
DATE: 04-01-2019
PROJECT NO: 2158889

TRAFFIC SIGNAL PLAN

2





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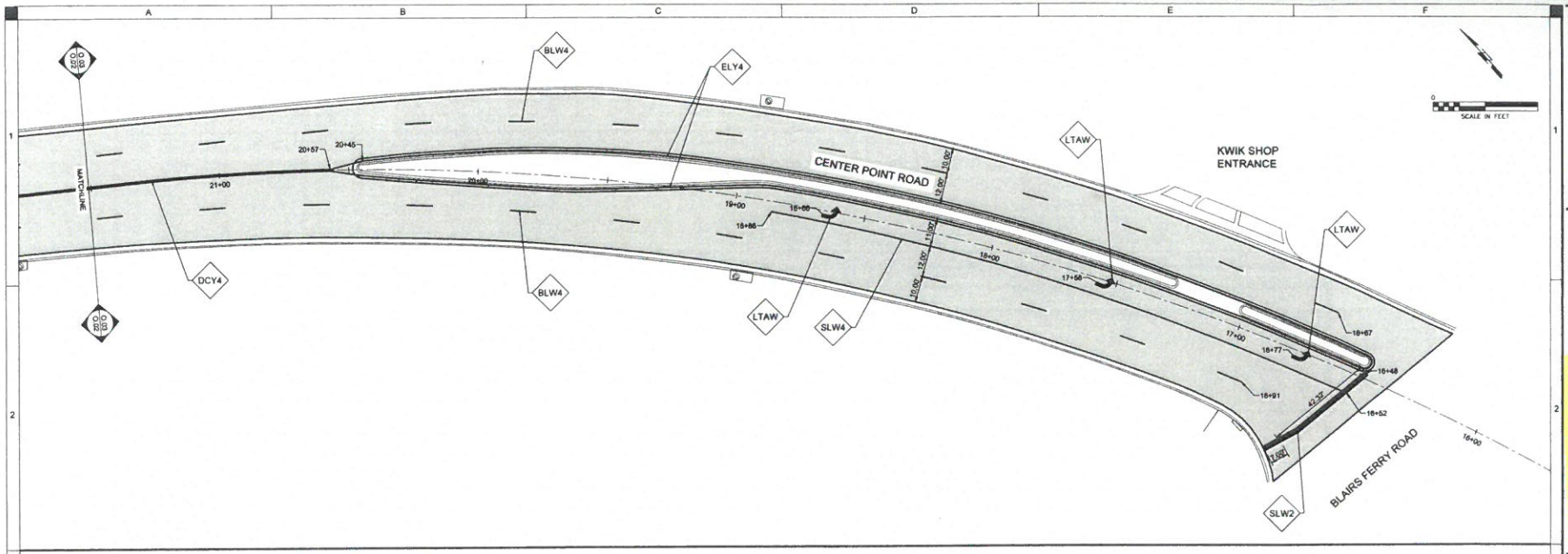
CENTER POINT ROAD
REHABILITATION FROM BLAIRS FERRY ROAD TO E CLARK STREET
CITY OF HIAWATHA
LINN COUNTY, IOWA

PRELIMINARY - NOT FOR CONSTRUCTION

DRAWN: EAV
APPROVED: BH
ISSUED FOR: REVIEW
DATE: 08/05/2019
PROJECT NO: 2101980
FIELD BOOK: --
CLIENT NO: --

PAVEMENT MARKING PLAN

0.02



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CENTER POINT ROAD
REHABILITATION FROM BLAIRS
FERRY ROAD TO E CLARK STREET
CITY OF HIAWATHA

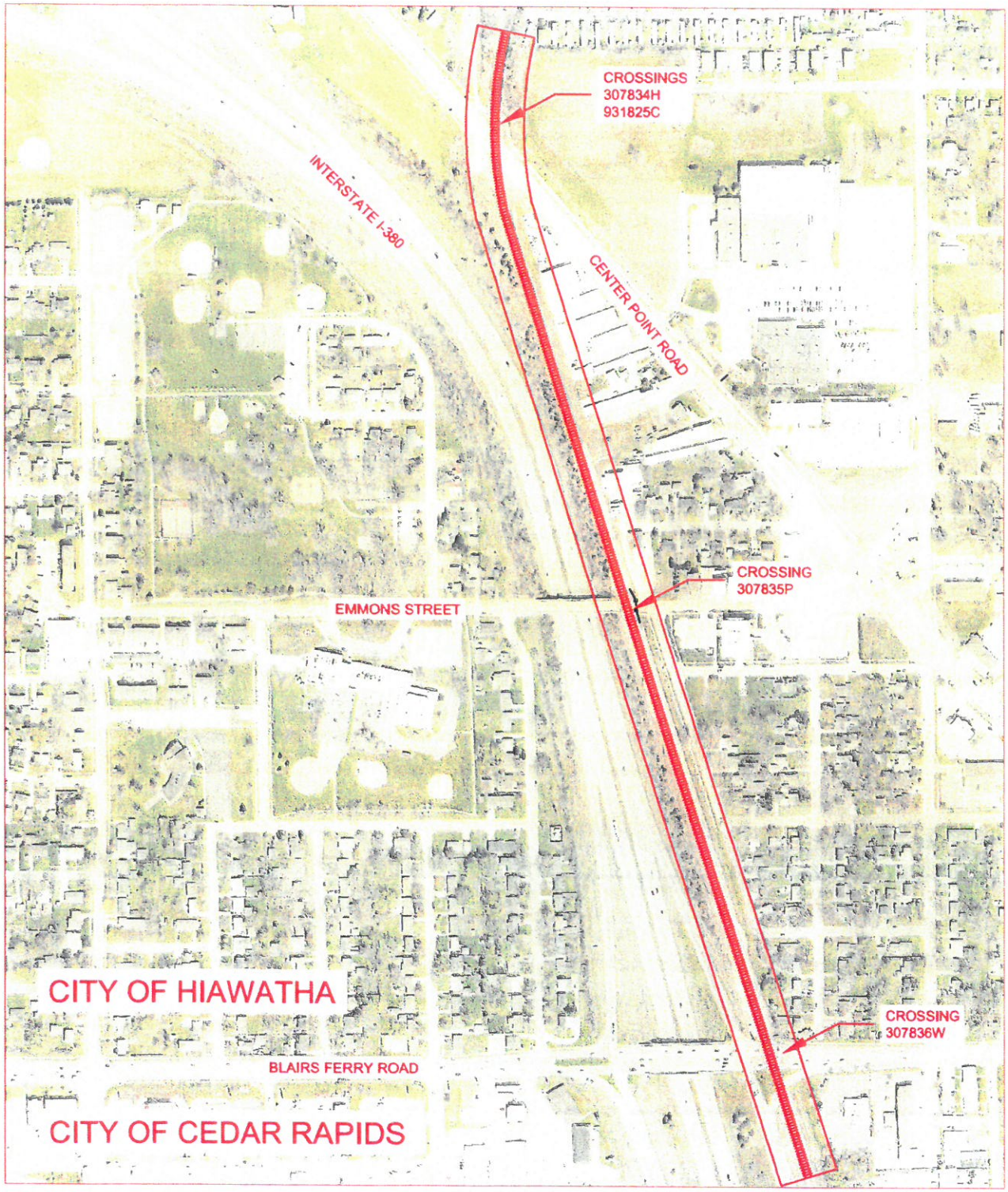
PRELIMINARY
- NOT FOR
CONSTRUCTION

DRAWN: EAV
APPROVED: BH
ISSUED FOR: REVIEW
DATE: 06/26/2019
PROJECT NO: 319180
FIELD BOOK: --

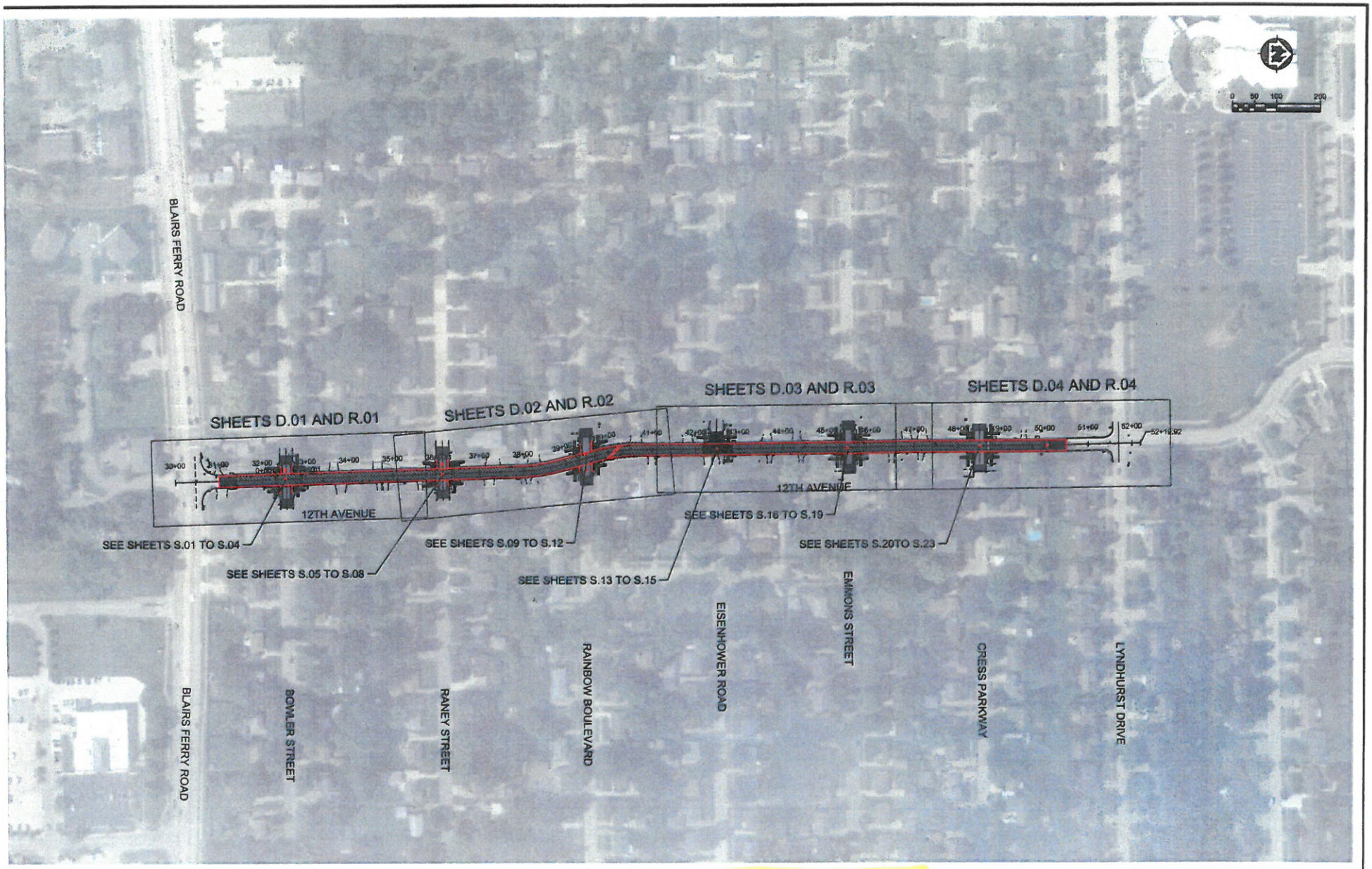
PAVEMENT
MARKING PLAN

0.03

Figure 1 - Proposed Quiet Zone Limits



ANDERSON-BOGERT
Engineers & Surveyors



			NO	DATE	REVISION	BY
DATE: JULY 2019	DRAWN BY: MAA					
	DESIGNED BY: RDH					
	CHECKED BY: BRB					

Tuesday, June 25, 2019 2:30:33 PM G:\07\07808\07808019\CADD\Construction Documents\07808019_OVERVIEW.dwg

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12TH AVENUE REHABILITATION
CITY OF HIAWATHA
CITY OF HIAWATHA, IOWA

OVERALL PROJECT LAYOUT

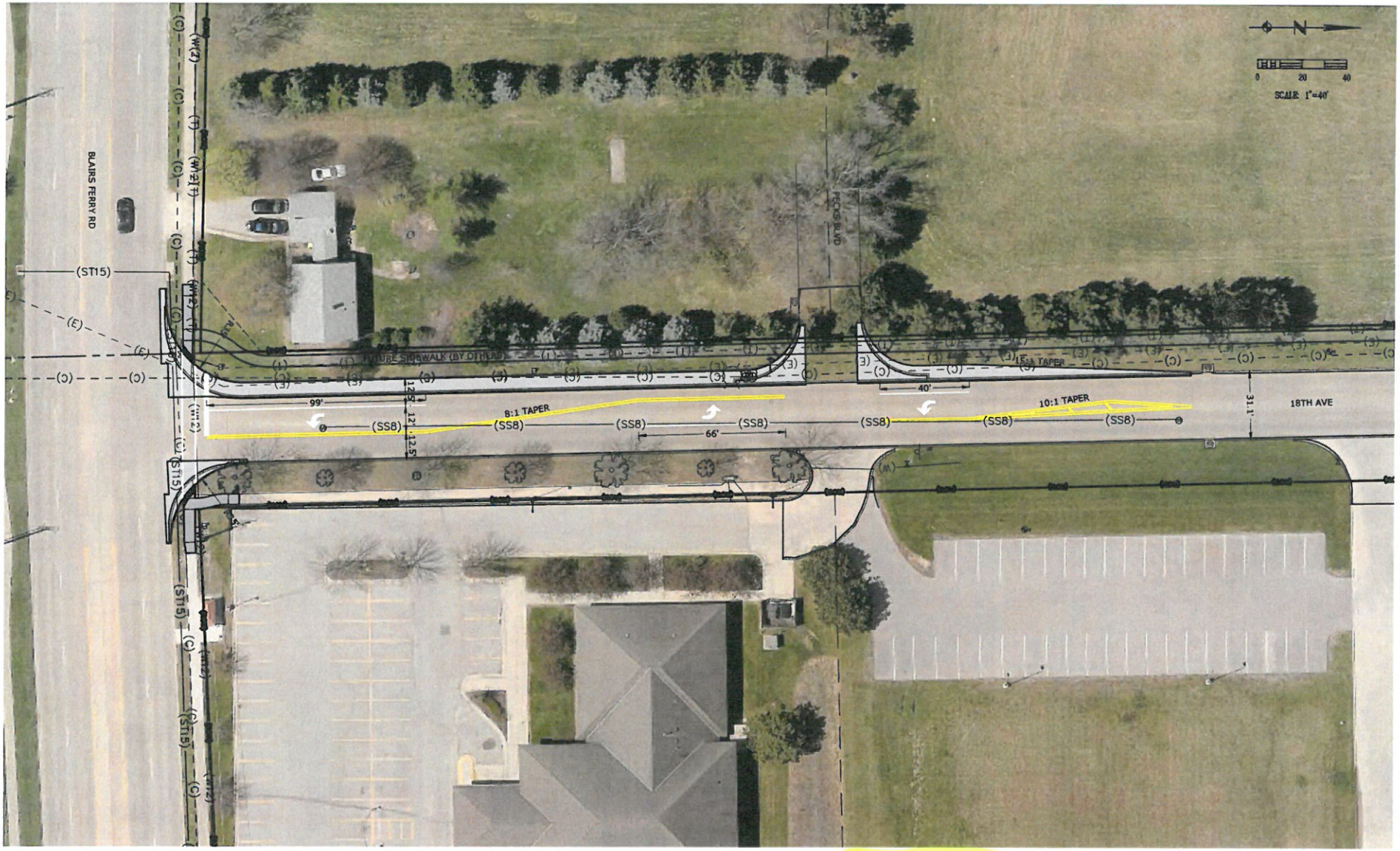
PROJECT NO 07808019

SHEET A.02

ROBINS ROAD CORRIDOR STUDY

CITY OF HIAWATHA, IA

Hiawatha!



DRAWN BY: KLH				
CHECKED BY: MGJ				
APPROVED BY: MGJ				
DATE: 07-10-2019				
FIELD BOOK: ---	NO.	REVISION DESCRIPTION	APPROVED	DATE

Hiawatha!

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18TH AVENUE
PCC PAVEMENT WIDENING
IN THE CITY OF HIAWATHA, LINN COUNTY, IOWA

CONCEPT PLAN
LAYOUT #2
SCALE: 1"=40'
PROJECT NO: 4089-19-02

SHEET
1

CAD File: I:\projects\4000\4089-19-2 18th Ave Widening\DWG\Base\Prop2.dwg Date Plotted: Wednesday, July 10, 2019 1:49:18 PM Plotted By: Matt Johnson

PLANS OF PROPOSED IMPROVEMENTS FOR

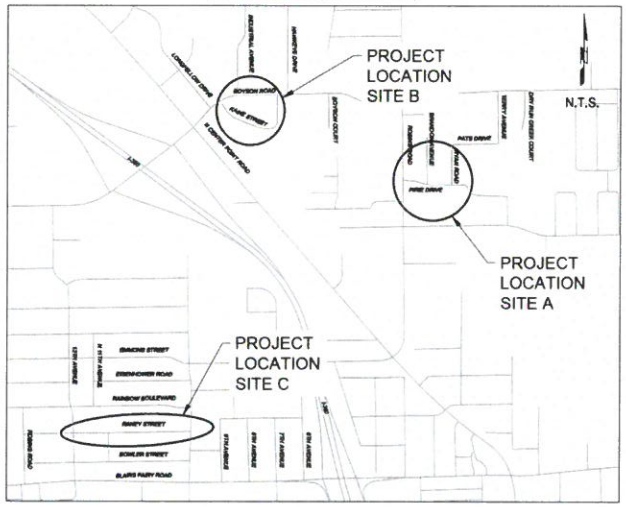
City of Hiawatha

LINN COUNTY, IOWA

Storm Sewer Improvements 2019

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS)

PROJECT LOCATION MAP



Mayor And City Council

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

TOTAL SHEETS 23

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A.03	SITE B LOCATION MAP
A.04	SITE C LOCATION MAP
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A.06	SITE A DEMOLITION PLAN
A.07	SITE B DEMOLITION PLAN
A.08	SITE C DEMOLITION PLAN
A.09	GENERAL NOTES
A.10	GENERAL NOTES
C.01	QUANTITIES
C.02	ESTIMATE REFERENCE NOTES
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M.03	SITE C STORM SEWER PLAN AND PROFILE

HIAWATHA PUBLIC WORKS DEPARTMENT

THIS ENGINEERING DOCUMENT IS RECOMMENDED FOR FILING WITH THE CITY CLERK

CITY ENGINEER DATE

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 07/26/2019 LICENSE NUMBER 15579

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2019

PAGES OR SHEETS COVERED BY THIS SEAL ALL

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.

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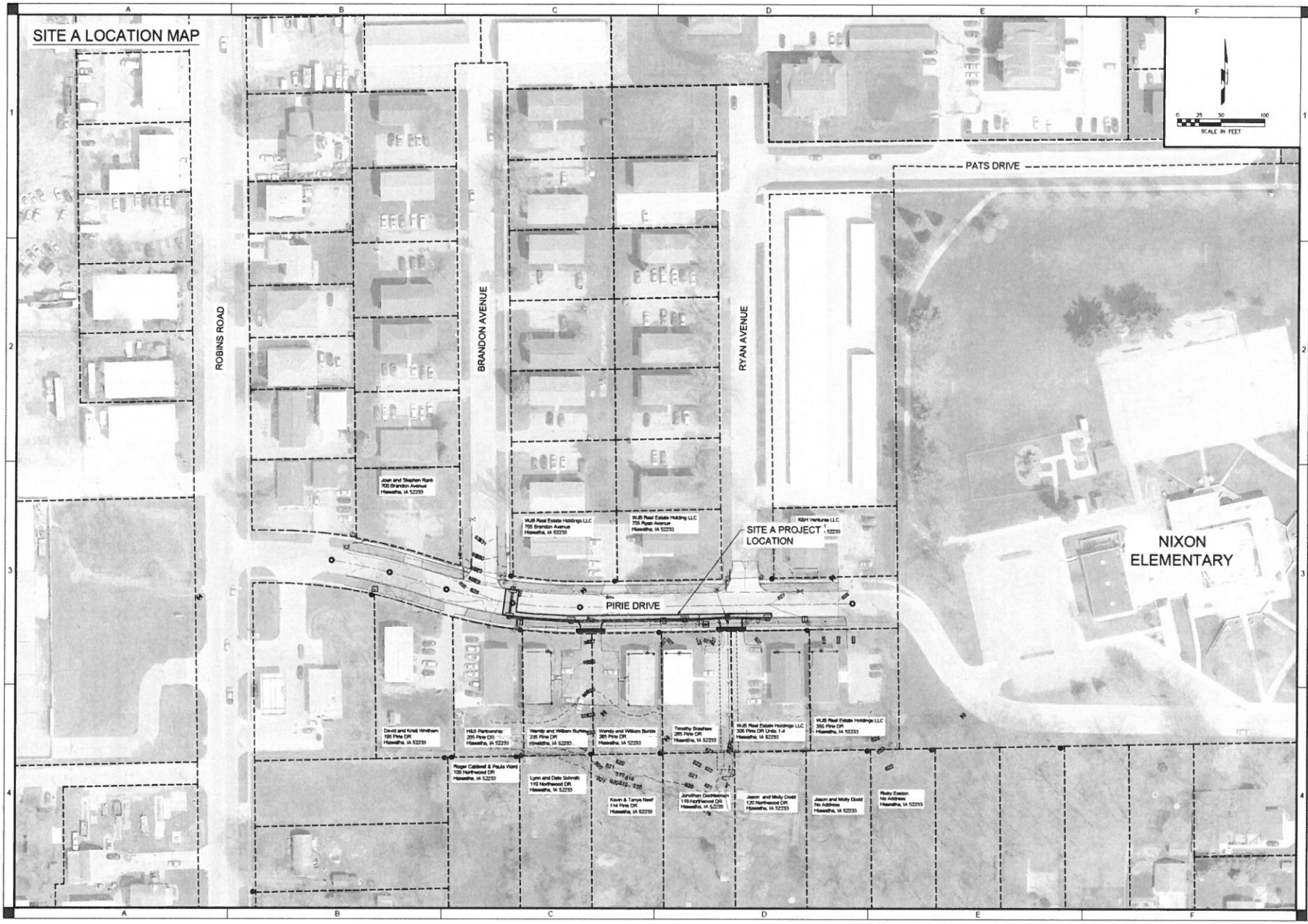
CITY OF HIAWATHA STORM SEWER IMPROVEMENT PROJECT 2019
CITY OF HIAWATHA
HIAWATHA, IA

PRELIMINARY - NOT FOR CONSTRUCTION

07/26/2019
90% CLIENT REVIEW
PROJECT NO. 2183890
CLIENT NO.

A.01



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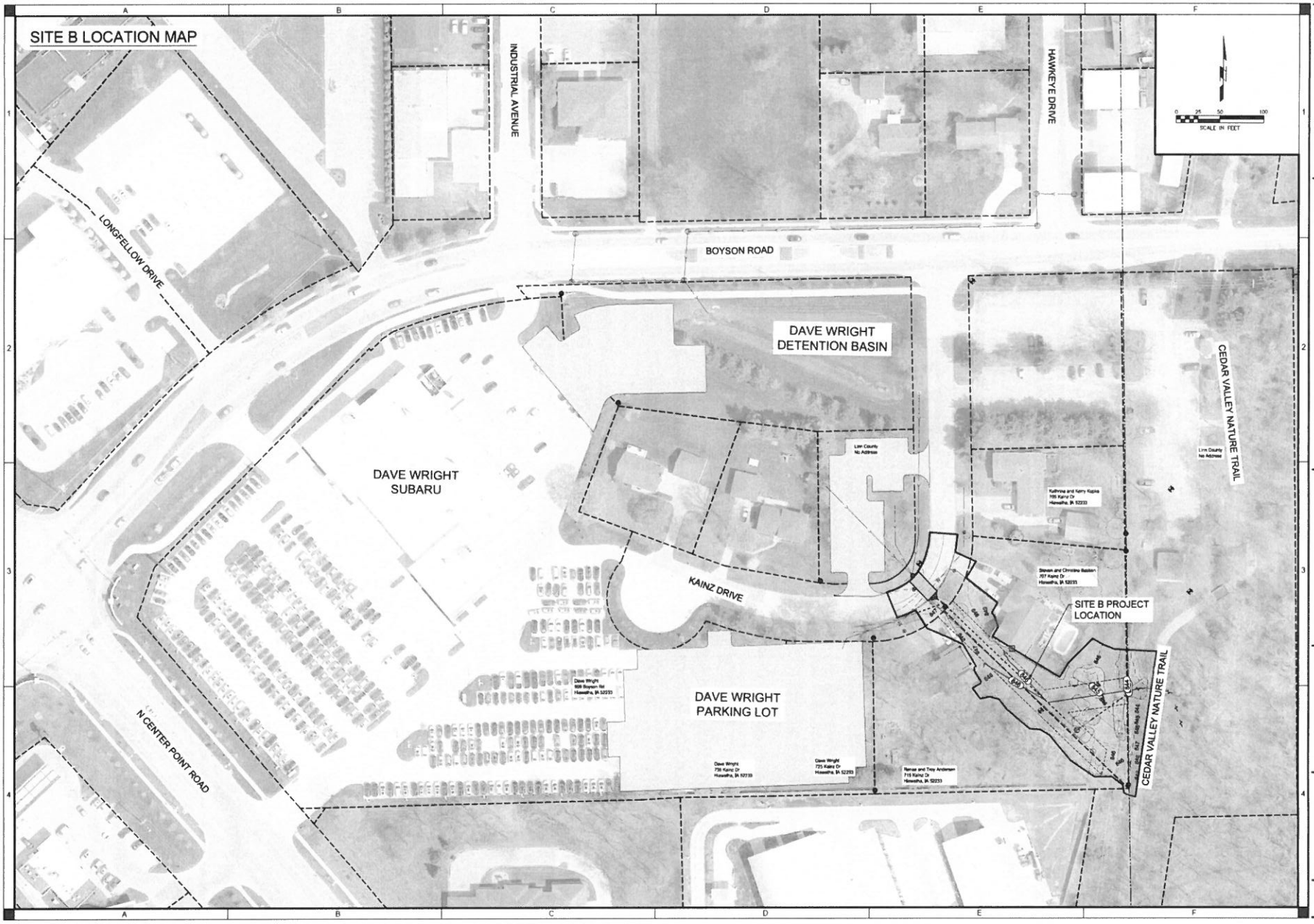
CITY OF HIAWATHA STORM SEWER IMPROVEMENT PROJECT 2019
CITY OF HIAWATHA

PRELIMINARY - NOT FOR CONSTRUCTION

DRAWN: JPL
APPROVED: DAP
ISSUED FOR: 90% CLIENT REVIEW
DATE: 07/26/2019
PROJECT NO: 218990
FIELD BOOK: --
CLIENT NO:

SITE A LOCATION MAP

A.02



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CITY OF HIAWATHA STORM SEWER IMPROVEMENT PROJECT 2019
CITY OF HIAWATHA

PRELIMINARY - NOT FOR CONSTRUCTION

DRAWN: JPL
APPROVED: DAP
ISSUED FOR: 90% CLIENT REVIEW
DATE: 07/26/2019
PROJECT NO: 218989
FIELD BOOK: –
CLIENT NO:

SITE B LOCATION MAP

A.03

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CITY OF HIAWATHA STORM SEWER IMPROVEMENT PROJECT 2019
CITY OF HIAWATHA

PRELIMINARY - NOT FOR CONSTRUCTION

DRAWN: JPL
APPROVED: DAP
ISSUED FOR: 90% CLIENT REVIEW
DATE: 07/26/2019
PROJECT NO: 218090
FIELD BOOK: —
CLIENT NO:

SITE C LOCATION MAP

A.04

7/30/2019
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dshlein
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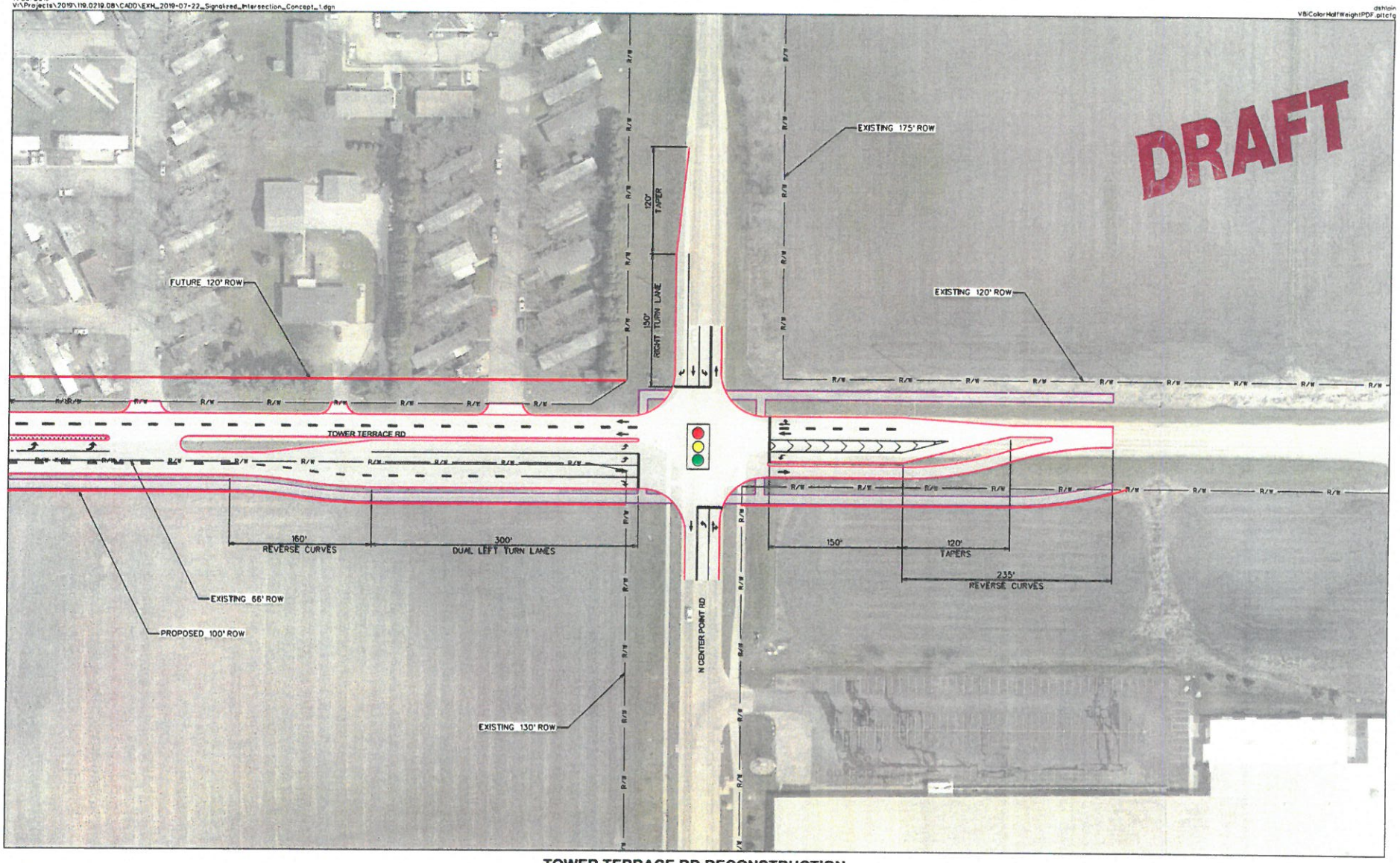

SNYDER & ASSOCIATES

0 50 100
FEET

N

TOWER TERRACE RD RECONSTRUCTION
I-380 TO N CENTER POINT RD

Hlawatha, Iowa

EXHIBIT - 1: SIGNALIZED INTERSECTION CONCEPT - OPENING YEAR

07/30/2019

7/31/2019
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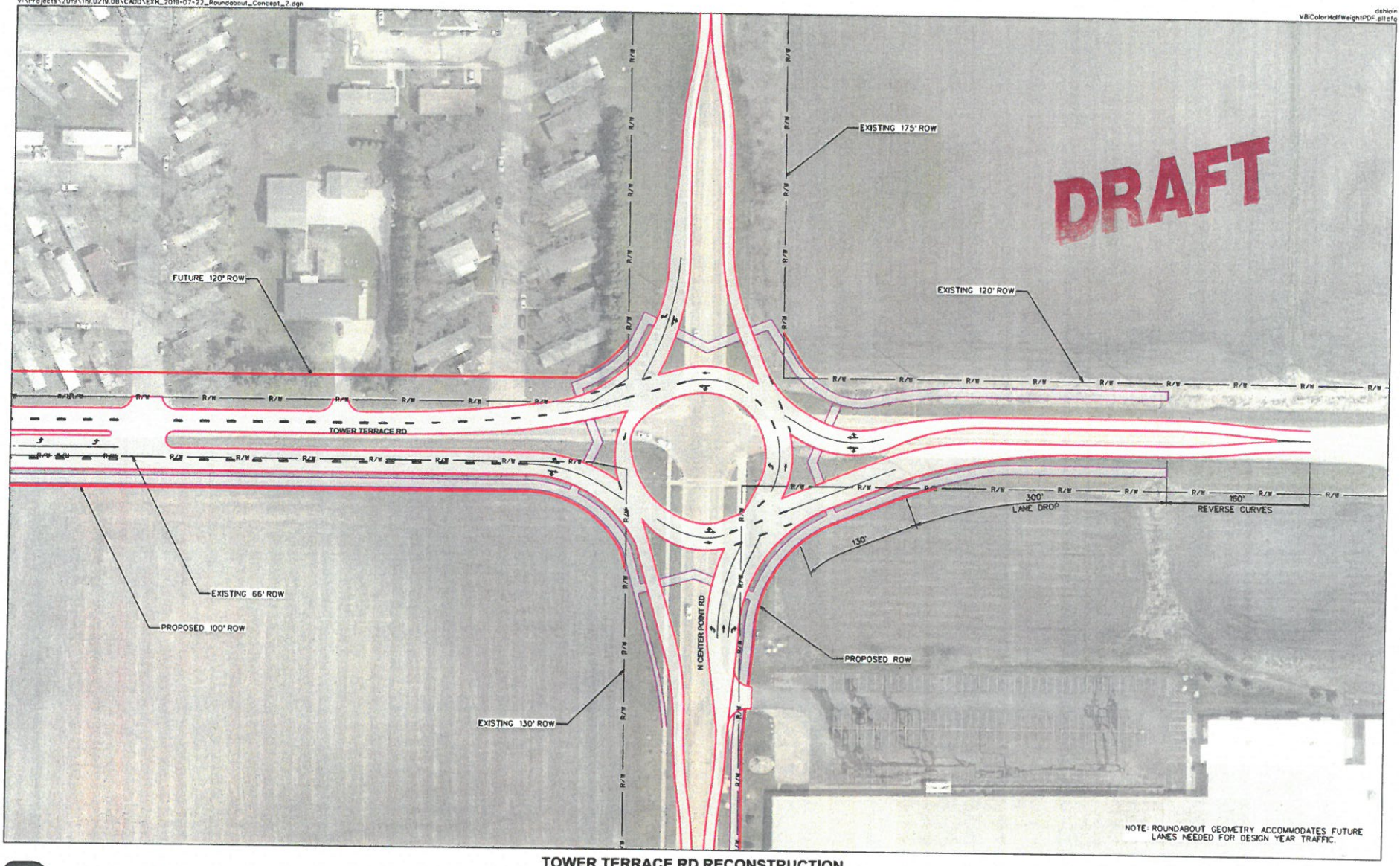

SNYDER & ASSOCIATES

0 50 100
FEET

N

TOWER TERRACE RD RECONSTRUCTION
I-380 TO N CENTER POINT RD

Hiawatha, Iowa

EXHIBIT - 2: ROUNDABOUT CONCEPT - OPENING YEAR

07/30/2019