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: April 25, 2019**

From: John Bender PE, City Engineer

Re: **April 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 preliminary plans for the Mid-Town roadway construction and the extension of "A" Avenue to serve the Oakbrook redevelopment. The schedule is to have final plans and start the bidding process in May. The goal is to construct this project in 2019.

- We approved a contract with Shive Hattery engineers to start the design work for the new signal at Center Point Road and Willman Street. 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. This design will have less impact on any utilities in the area. We have taken quotes for signal suppliers to order the signal poles and masts in advance because of the 20 week delivery time. The low quote was submitted by Electrical Products Company of Omaha Nebraska. A purchase order has been issued to start building these poles.

  The other issue all the existing brick sidewalks and trail no longer meet the current ADA standards. We are now looking at expanding the project to remove and replace the existing crosswalks and sidewalks required to be rebuilt due to the new signal bases and wiring. For that reason, it appears to make sense to replace the entire intersection with new colored concrete and comply with the current ADA specifications. This will increase the construction cost of the project. These additional costs have been anticipated and are available with LOST funds.

- 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. The large traffic volume has taken a toll on the street condition, as we have always anticipated adding

a new surface in this area as the last improvement to the entire Center Point Road corridor. We currently have projects that have been constructed under budget which provides us with capital improvements dollars available to use on other anticipated projects. This will allow us to accelerate the construction schedule of a project of this type. We hope to have a proposed plan and anticipated construction cost in the next week to determine the best course of action.

- 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 will work with Maxwell Construction from Iowa City, the prime contractor, to come up with a solution. We will bring a plan to Council in May.

- We have approved a contract with Anderson Bogert Engineers to start the study of 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. We now have a list of tasks to accomplish in order to satisfy the safety requirements for the type of installation. We will keep Council posted on our progress.

- We are moving ahead with 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, held the 4th steering committee meeting April 2nd and the final open house is scheduled for May 16th. We also made a presentation to the Planning and Zoning Commission at their meeting April 22nd. The information regarding new concept proposals can be found on the Hiawatha website at www.hiawatha-iowa.com/news/robinsroadstudy.

- 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.

  The second area of concern is this section of 12th Avenue is approximately 2000 feet long and has 6 street intersections that all have non-conforming sidewalk ramps. None of the sidewalk ramps currently meet ADA standards. A large portion of this project is the survey and design work needed to reconstruct the ramps to current standards. The approach would be to reconstruct the ramps after the asphalt surface is placed. The goal is to construct this project in 2019.

- The new Tower Terrace Interchange design is moving forward. This project is scheduled to start construction in fiscal year 2021. Staff attended a field review of the preliminary interchange plans on March 5th. 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 did hear good news from the DOT staff and our consultant that using SWAP funds for our section of Tower Terrace as well as the section west of the new interchange in Cedar Rapids has been approved. By using SWAP funds, our level of effort to completed the environment, and archeological and historical reviews will be reduced along with a significant time savings. The schedule is to start the design work and the traffic study to have the preliminary plan prepared by October of 2019.

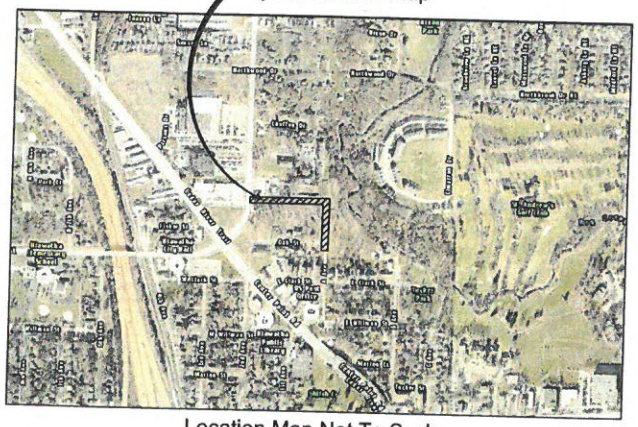
- We held a meeting April 22nd with the City of Cedar Rapids, Iowa DOT, Hiawatha, and the Corridor MPO staff to discuss the process for moving forward with the funding agreements needed to provide federal dollars allocated to the I-380/Tower Terrace Interchange project, back to the Cities of Cedar Rapids and Hiawatha. Both cities have identified roadway projects on Tower Terrace that will be reconstructed in conjunction with the interchange project. The first task will be to determine the amount of funds available, and then the process for a memorandum of understanding as to how the funds will be transferred to the 2 local construction projects. 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.

VILLAGE CENTER STREET IMPROVEMENT

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
- RECORDED DIMENSIONS
- CURVE SEGMENT NUMBER
- 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.

Sheet Index

C1.0	TITLE SHEET
C1.1	GENERAL NOTES AND DETAILS
C2.0	DEMOLITION PLAN
C3.0	GRADING AND EROSION CONTROL PLAN AND SWPPP
C4.0	PAVING PLAN AND PROFILE: CAROLYN COURT
C5.0	SANITARY SEWER PLAN AND PROFILE
C6.0	STORM SEWER PLAN AND PROFILE
C7.0	WATER MAIN PLAN
C8.0	INTERSECTION DETAILS

UTILITIES

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

IOWA ONE CALL

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

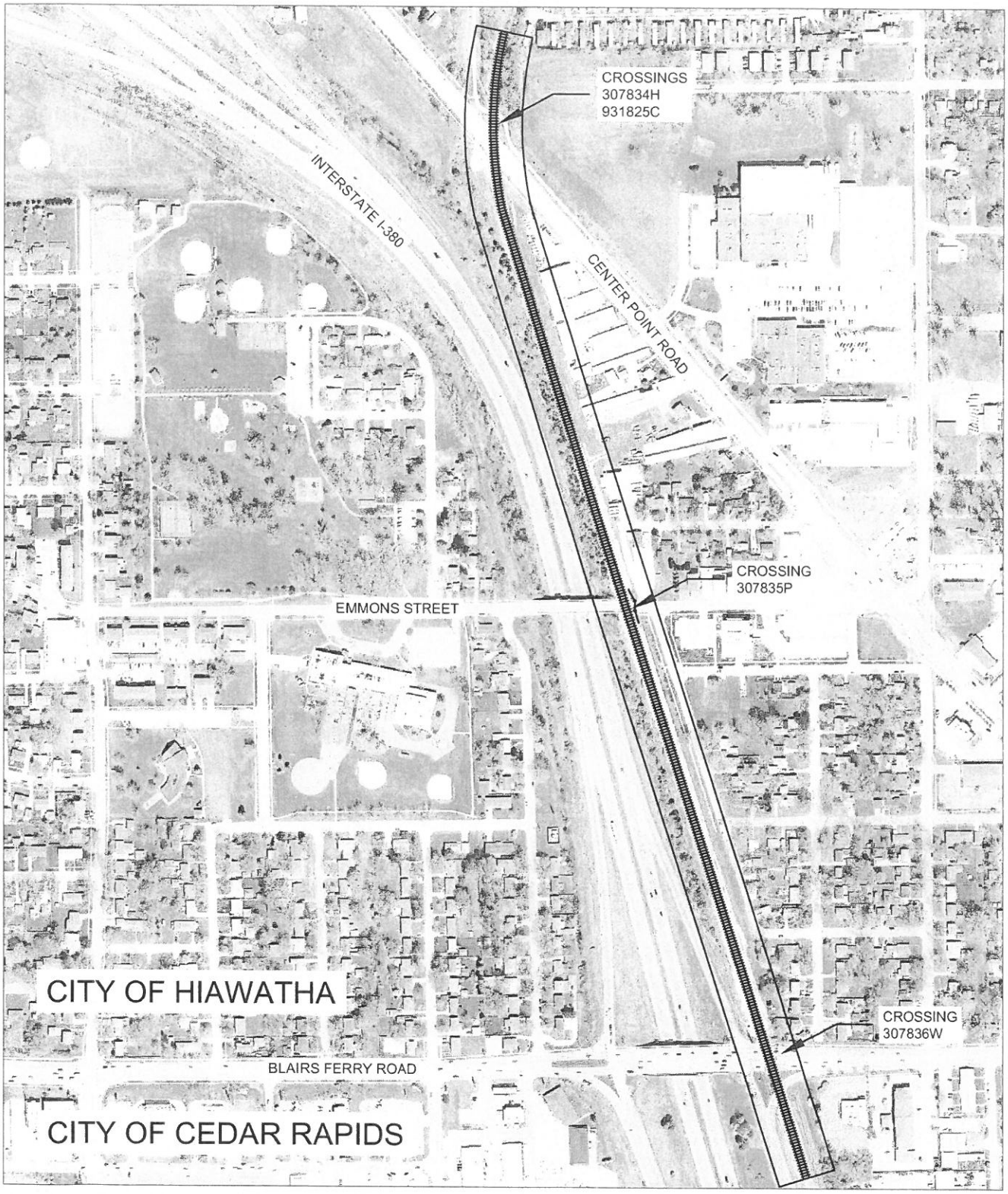
My license renewal date is December 31, 20____.

Pages or sheets covered by this seal:

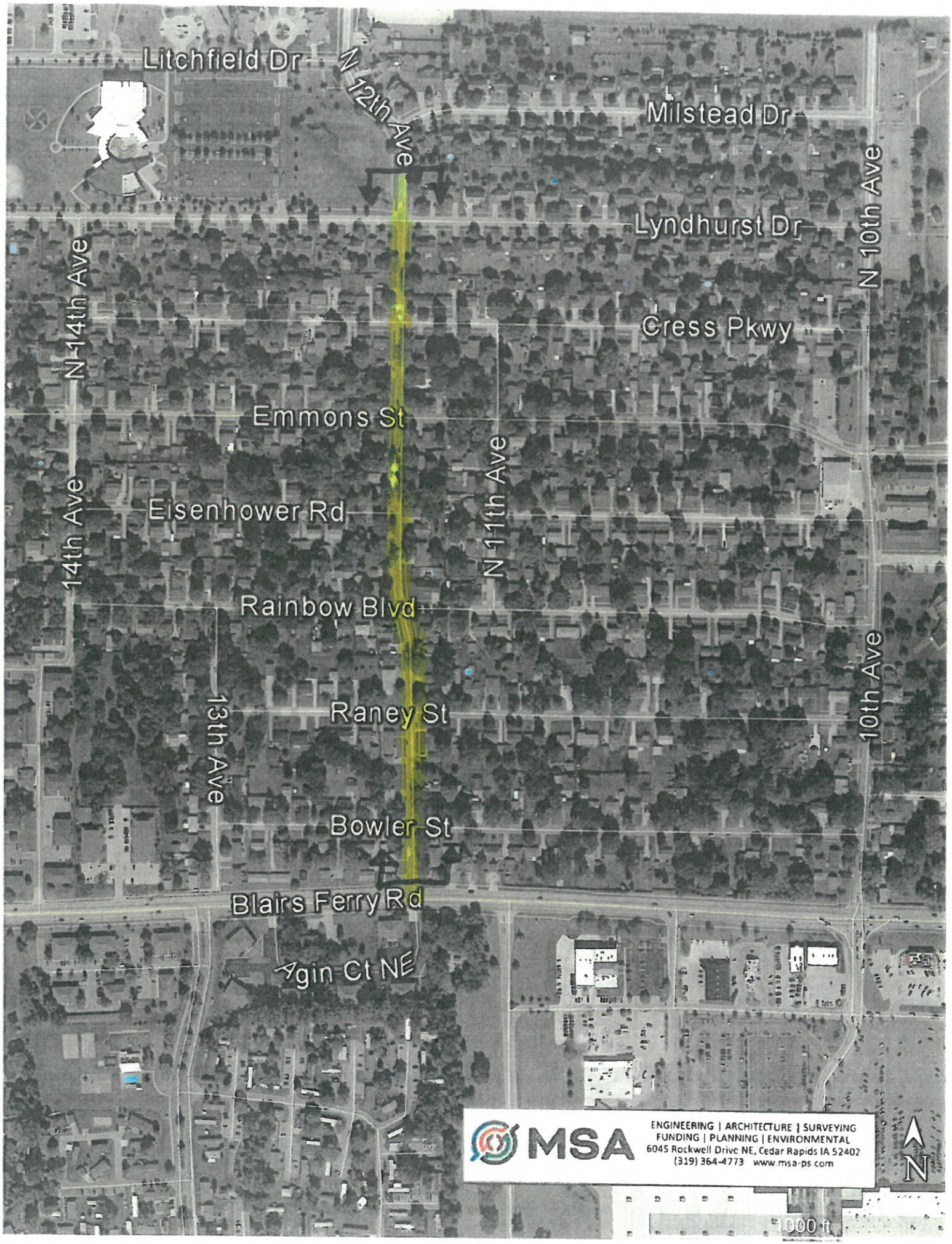
DRAFT

Drawn By: JEB/DLC Approved By: SBP Date: 05-03-2019		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	VILLAGE CENTER STREET IMPROVEMENT HIAWATHA, IA	TITLE SHEET	Sheet No. C1.0

Figure 1 - Proposed Quiet Zone Limits



ANDERSON-BOGERT
Engineers & Surveyors


Litchfield Dr
N 12th Ave
Milstead Dr
Lyndhurst Dr
N 10th Ave
N 14th Ave
Cress Pkwy
Emmons St
N 11th Ave
14th Ave
Eisenhower Rd
Rainbow Blvd
10th Ave
Raney St
13th Ave
Bowler St
Blairs Ferry Rd
Agin Ct NE
MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
6045 Rockwell Drive NE, Cedar Rapids IA 52402
(319) 364-4773 www.msa-ps.com
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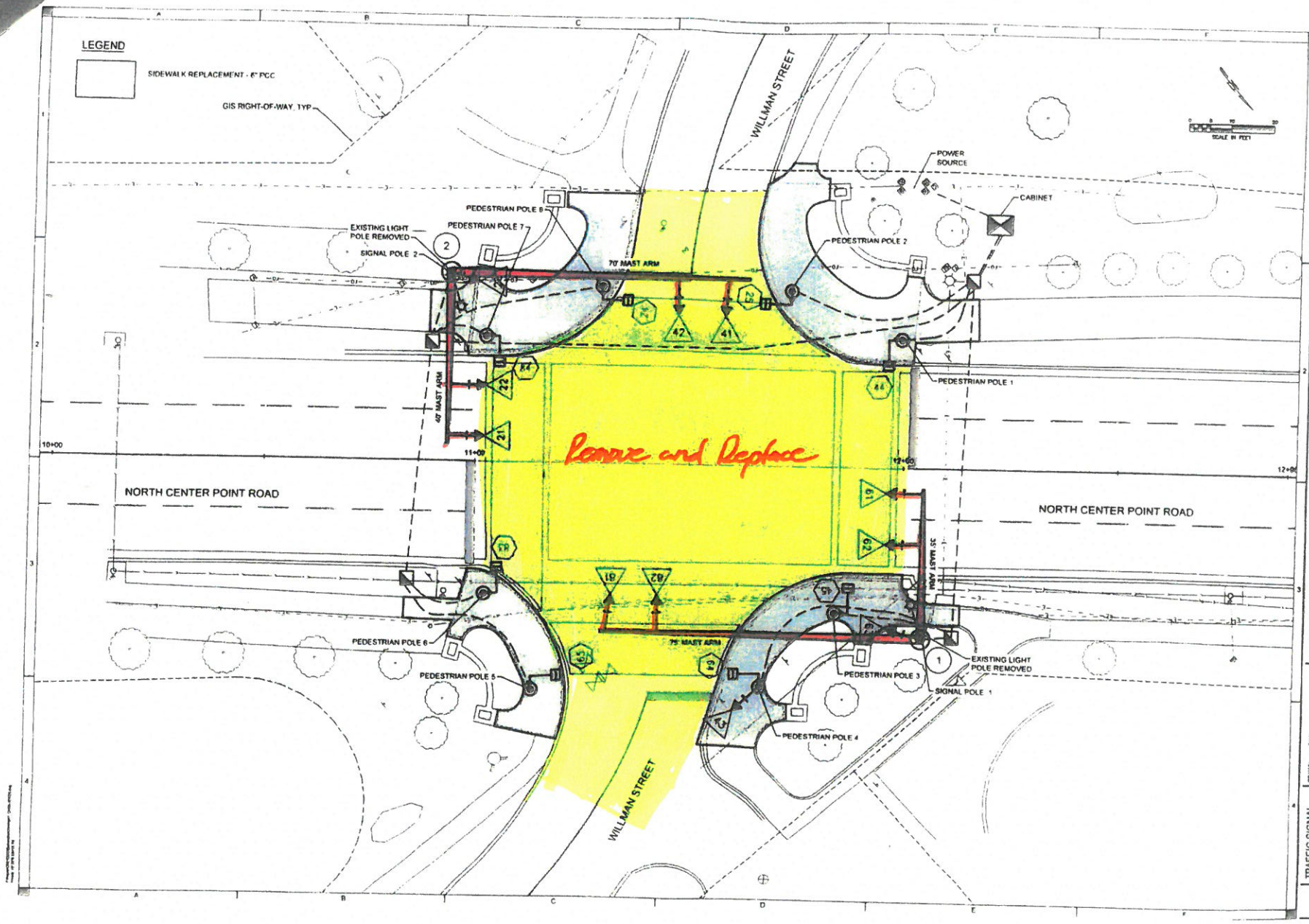
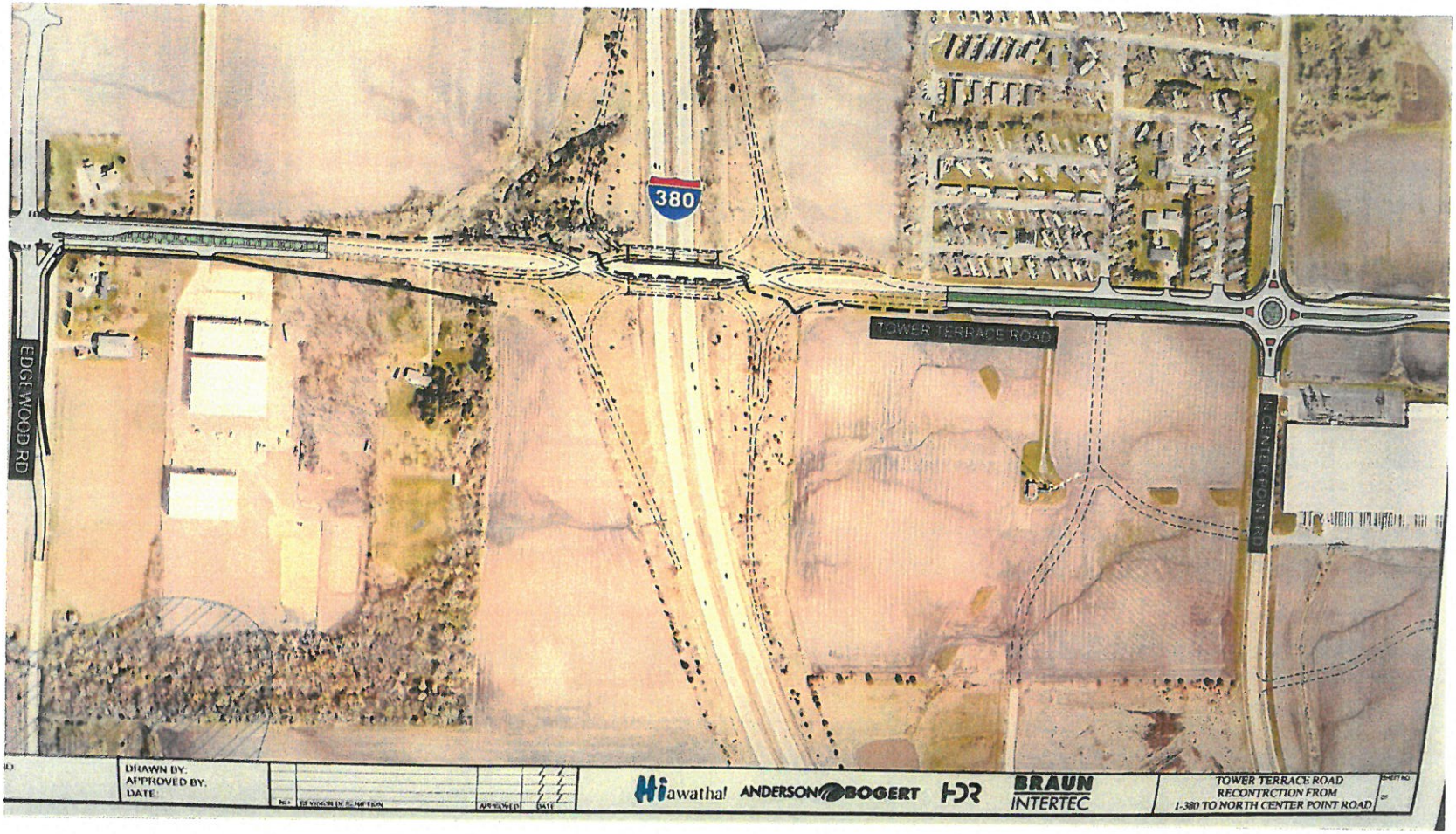

LEGEND
SIDEWALK REPLACEMENT - 6" PCC
GIS RIGHT-OF-WAY, TYP
WILLMAN STREET
POWER SOURCE
CABINET
PEDESTRIAN POLE 8
PEDESTRIAN POLE 7
EXISTING LIGHT POLE REMOVED
SIGNAL POLE 2
70' MAST ARM
PEDESTRIAN POLE 2
PEDESTRIAN POLE 1
40' MAST ARM
Remove and Replace
NORTH CENTER POINT ROAD
NORTH CENTER POINT ROAD
35' MAST ARM
75' MAST ARM
PEDESTRIAN POLE 6
PEDESTRIAN POLE 5
PEDESTRIAN POLE 3
EXISTING LIGHT POLE REMOVED
SIGNAL POLE 1
PEDESTRIAN POLE 4
WILLMAN STREET
SCALE IN FEET
SHIVEHATTERY
WILLMAN STREET/NORTH CENTER POINT ROAD INTERSECTION IMPROVEMENTS
CITY OF HIAWATHA
HIAWATHA, IOWA
PRELIMINARY - NOT FOR CONSTRUCTION
TRAFFIC SIGNAL PLAN
2



DRAWN BY:
APPROVED BY:
DATE:

NO.	REVISION DESCRIPTION	APPROVED	DATE

Hiawatha! ANDERSON BOGERT HDR BRAUN INTERTEC

TOWER TERRACE ROAD
RECONTRCTION FROM
I-380 TO NORTH CENTER POINT ROAD

SHEET NO.