

FENCING
MPIN-380-6(738)17--ON-57

LETTING DATE
06-16-26

LINN COUNTY



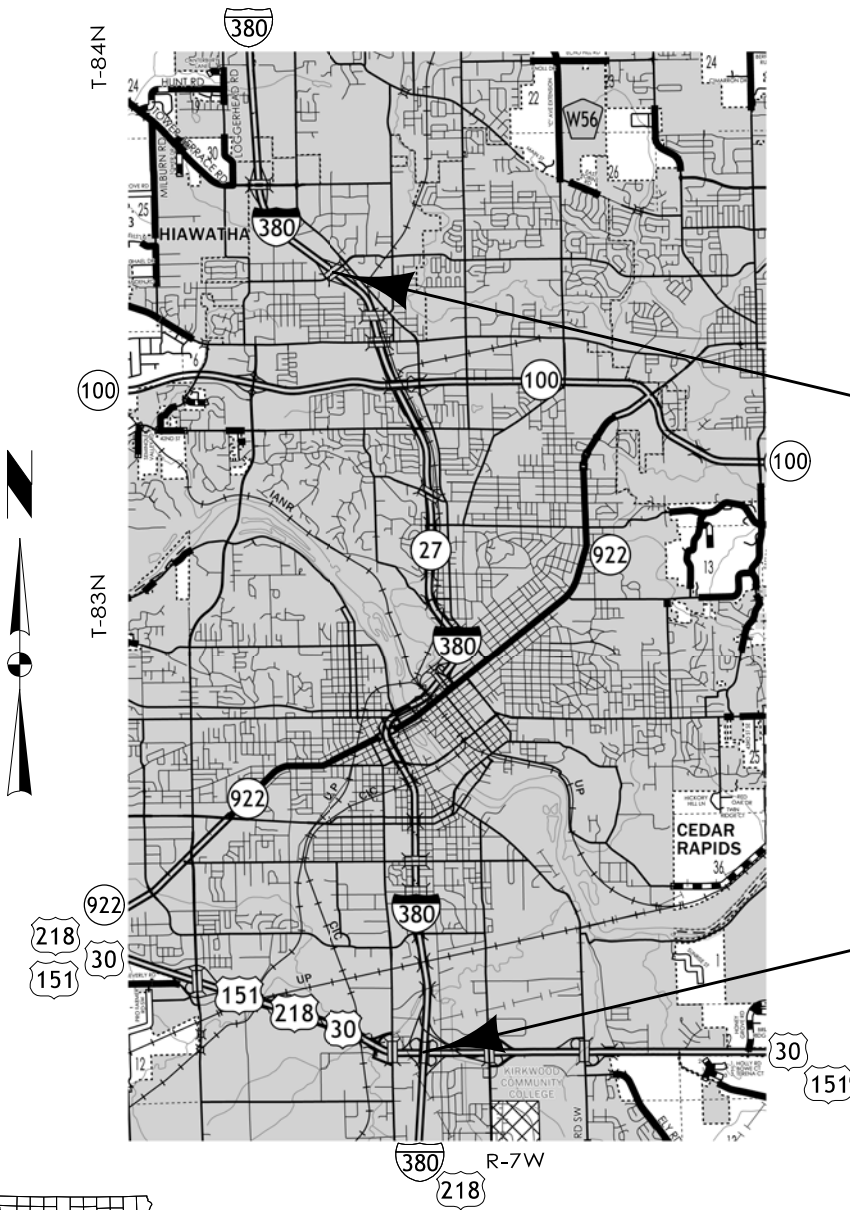
PLANS OF PROPOSED IMPROVEMENT ON THE
INTERSTATE ROAD SYSTEM
LINN COUNTY
FENCING

In Cedar Rapids and Hiawatha, form US 30 to Boyson Road

SCALES: As Noted

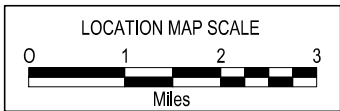
Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



End Project
Milepost 25.00

Begin Project
Milepost 17.00



DESIGN DATA URBAN

2024	AADT	82,600	V.P.D.
20 --	AADT	--	V.P.D.
20 --	DHV	--	V.P.H.
TRUCKS		10	%
Total			
Design ESALs		--	

INDEX OF SHEETS

No.	DESCRIPTION
A Sheet A.1	Title Sheet Title Sheet
C Sheets C.1 - 4	Quantities and General Information Quantities and General Information
J Sheet J.1	Traffic Control Traffic Control Plan
U Sheets U.1 - 3	Detail Sheets Detail Sheets

ROADWAY DESIGN



I hereby certify that this engineering document 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: Date: 4/3/26

Printed or Typed Name: Seth M. Kjormoe

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: ALL

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2101-0850002	CLEARING AND GRUBBING	UNIT	54	<p>Item is for clearing trees, stumps, and brush that interfere with replacement of fence. Refer to Tab. 110-17.</p> <p>Brush removed will be measured in stations and converted to units at a rate of 6.0 units per station.</p> <p>All cleared trees shall be removed to the ground line. Grubbing will not be required.</p> <p>All material resulting from clearing shall become the property of the contractor and shall be removed from the right-of-way.</p>
2	2519-1001000	FENCE, CHAIN LINK, VINYL COATED	LF	2,829	<p>Refer to Tab. 100-7.</p> <p>Vinyl coating shall be black.</p> <p>A top tension wire shall be installed in lieu of a top railing for all segments.</p>
3	2519-4200120	REMOVAL OF FENCE, CHAIN LINK	LF	3,730	<p>Refer to Tab. 100-8.</p>
4	2528-8445110	TRAFFIC CONTROL	LS	1	<p>Refer to Tab. 108-23A.</p>
5	2533-4980005	MOBILIZATION	LS	1	
6	2601-3000206	HERBICIDE APPLICATION, CUT STUMP	LS	1	<p>Refer to Tab. 110-17, Special Notes, and Standard Note 231-2 for requirements.</p>

100-1D
10-18-05

PROJECT DESCRIPTION

This project is located on I-380 in Cedar rapids and Hiawatha, From US 30 to Boyson Road.

Fencng removal and replacement is concentrated in downtown Cedar Rapids in the areas of 1st Ave W and between 3rd Ave SW and 5th Ave SW along I-380.

The work includes removal and replacement of field fence located in the right-of-way and clearing trees and brush that interfere with fence replacement.

105-4
10-18-11

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
MI-101	10-20-15	Fencing Layout
MI-102	10-20-15	Chain Link Fence Construction
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-402	04-18-23	Work Within 15 ft of Traveled Way

232-3A
10-19-21

EROSION CONTROL
(RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area lying 8 feet adjacent to shoulder and median as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

262-6
10-18-05

UTILITIES
(NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

FILE NO.

ENGLISH

DESIGN TEAM Kjormoe\Holub

LINN COUNTY

PROJECT NUMBER MPIN-380-6(738)17--0N-57

SHEET NUMBER C.2

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100-08
04-17-18

REMOVAL OF FENCE

Removal of Field Fence is incidental to Clearing and Grubbing.

Location				Type	Length	Remarks
From		To				
Milepost	Offset	Milepost	Offset		LF	
19.26	160' Lt	19.33	160' Lt	Chain Link	380.0	1 - From 8th Ave SW to 5th Ave SW (between SB I-380 and L St SW)
19.32	120' Lt	19.40	120' Lt	Chain Link	510.0	2 - From 8th Ave SW to 5th Ave SW (between SB I-380 on ramp and L St SW)
19.45	160' Rt	19.60	160' Rt	Chain Link	865.0	3 - From 5th Ave SW to 3rd Ave SW (between NB I-380 and 3rd St SW)
19.45	15' Lt	19.45	16' Rt	Chain Link	31.0	4 - Just north of 5th Ave SW
19.45	130' Lt	19.60	130' Lt	Chain Link	718.0	5 - From 5th Ave SW to 3rd Ave SW (between SB I-380 and L St SW)
19.60	12' Rt	19.60	13' lt	Chain Link	25.0	6 - Just south of 3rd Ave SW
19.76	160' Lt	19.82	160' Lt	Chain Link	306.0	7 - SB I-380 Exit 19B (near the bottom of the ramp on the left)
19.75	260' Lt	19.83	260' Lt	Chain Link	400.0	8 - SB I-380 Exit 19B (near the bottom of the ramp on the right)
19.78	10' Rt	19.87	10' Rt	Chain Link	495.0	9 - NB I-380 Exit 19C (near the bottom of the ramp on the left)
TOTAL					3730.0	
Note: The numbers (1-9) in the remarks column refer to numbers (1-9) on sheets U.1 - U.3.						

100-7
10-16-12

FENCING

* Bid Item

Refer to MI-101, MI-102, MI-103, MI-104, 510-3, and 510-5

Location				Side	Chain Link				Deer				Field				Channel Crossing		Remarks		
From		To			Fence		Gate		Fence Length*	Brace Panels*	Gate		Fence Length*	Brace Panels*	Gate		Length*	Type			
Milepost	Offset	Milepost	Offset		Length*	Type	No.*	Type			No.*	Type			No.*	Type				Length*	Type
19.26	160' Lt	19.33	160' Lt	380.0	VINYL COATED													1 - From 8th Ave SW to 5th Ave SW (between SB I-380 and L St SW)			
19.32	120' Lt	19.40	120' Lt	410.0	VINYL COATED													2 - From 8th Ave SW to 5th Ave SW (between SB I-380 on ramp and L St SW)			
19.45	160' Rt	19.60	160' Rt	865.0	VINYL COATED													3 - From 5th Ave SW and 3rd Ave SW (between NB I-380 and 3rd St SW)			
19.45	15' Lt	19.45	16' Rt	31.0	VINYL COATED													4 - Just north of 5th Ave SW			
19.45	130' Lt	19.60	130' Lt	718.0	VINYL COATED													5 - From 5th Ave SW and 3rd Ave SW (between SB I-380 and L St SW)			
19.60	12' Rt	19.60	13' lt	25.0	VINYL COATED													6 - Just south of 3rd Ave SW			
19.75	260' Lt	19.83	260' Lt	400.0	VINYL COATED													8 - SB I-380 Exit 19B (near the bottom of the ramp on the right)			
TOTALS					2829.0																
Note: The numbers (1-8) in the remarks column refer to numbers (1-8) on sheets U.1 - U.3.																					

110-17
04-18-17

CLEARING AND GRUBBING

Location		Work and Material Type	Trees, Stumps, and Logs and Down Timber Material Diameters														All Other Materials		Estimated Quantities			Remarks
Station to Station or Ref. Loc. Sign to Ref. Loc. Sign or Description	Direction of Travel		3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Length	Width	Units	Area	Herbicide Application		
MP 19.75 to MP 19.83	SB	Brush - Clearing														400.0		24.0			8	
MP 19.78 to MP 19.87	NB	Brush - Clearing														495.0		30.0			9	
TOTAL																		54.0				
Note: The numbers (8-9) in the remarks column refer to numbers (8-9) on sheet U.3.																						

FILE NO.

ENGLISH

DESIGN TEAM Kjormoe\Holub

LINN COUNTY

PROJECT NUMBER MPIN-380-6(738)17--0N-57

SHEET NUMBER C.3

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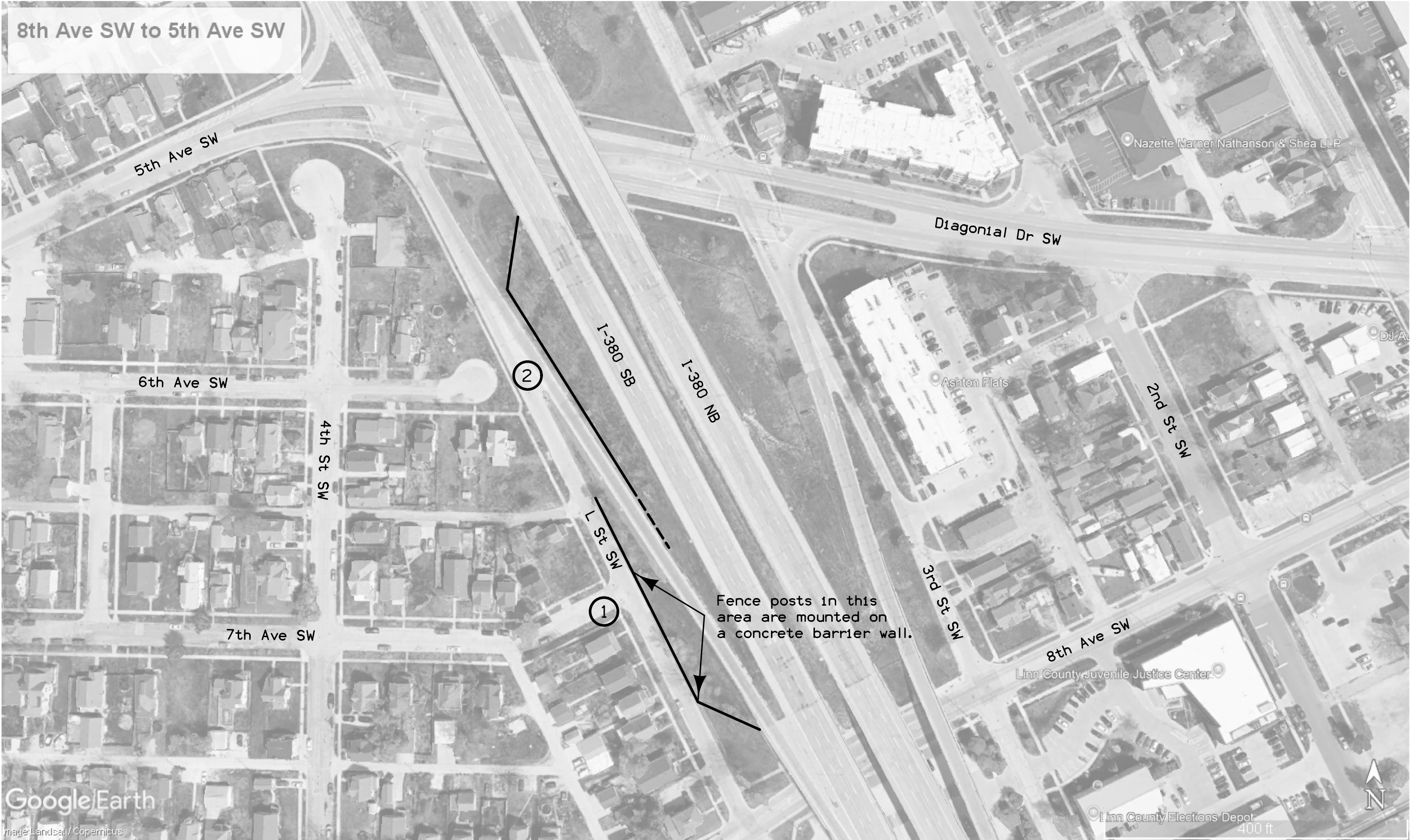
SN-1				231-2 04-21-20		231-2 04-21-20				
SPECIAL NOTES				HERBICIDE		HERBICIDE				
CLEARING AND GRUBBING				For all herbicide applications, the following provisions shall apply.		b. For tree and brush applications: i. For foliar applications and cut stump/surface applications with water-soluble products, apply after leaves are fully opened in the spring and prior to leaf discoloration in the fall. ii. For cut stump applications with oil soluble products, do not apply during periods of heavy sap flow. Use as a guideline that heavy sap flow occurs in late winter to early spring when nighttime temperatures below 32° F are followed by daytime temperatures above 32° F with sunny conditions. iii. For cut stump and basal bark applications, add sufficient dye so that treated areas are visible to inspection 7 days after application.				
Coordinate these items with bid item “Herbicide Application, Cut Stump”. Clear trees and brush to ground line. Grubbing will not be required. Material disposal: Material disposal will not be measured for payment. Process trees, brush and down timber by either of the following methods: A. Remove whole from the right of way. B. Chip material in place and remove from the right of way. Do not stockpile any material within 30 feet of the shoulder before removing from the right of way. Seed disturbed areas.				1. Follow all laws, rules and regulations related to the handling of pesticides, including but not limited to: a. Follow all herbicide label directions, restrictions, and precautions. b. The company responsible for the herbicide applicator must be licensed with Iowa Department of Agriculture and Land Stewardship (IDALS) as a commercial pesticide applicator company. c. The person applying the herbicide must be certified through IDALS as a pesticide applicator in Category 6, Right-of-Way. For herbicide applications that require an aquatic certification, the applicator must also be certified as a pesticide applicator in Category 5, Aquatics. d. Use herbicide and adjuvant products labeled for the application site: i. For applications on the primary highway right-of-way, use only products labeled for use on highway rights-of-way or roadsides. ii. For applications to or over water, use only products labeled for corresponding use in aquatic sites, unless intermittent pockets of standing water, such as tire ruts, and the product is labeled for such use. iii. For applications to areas in the water conveyance portion of the ditch that do not contain water at the time of application, use only products labeled for non-irrigation ditch banks or aquatic sites. e. Do not apply any herbicide to or over standing or flowing water unless required coverage is obtained under a National Pollutant Discharge and Elimination System (NPDES) Pesticide Discharge Permit through Iowa DNR. If standing or flowing water is encountered in areas when they need to be sprayed, notify Iowa DOT (Roadside Development) to determine required coverage.		7. Notify the Engineer prior to calibrating, mixing and applying herbicides, including incidental items.				
HERBICIDE APPLICATION, CUT STUMP				2. Schedule work according to weather conditions and take measures to avoid off-target damage, such as runoff, leaching, drift and volatilization. a. Do not spray herbicide 24 hours prior to forecast precipitation that is expected to cause significant runoff conditions. b. For areas with saturated soil, such as ditch bottoms, do not spray herbicide 24 hours prior to forecast precipitation, unless using products labeled for aquatic sites. c. For conventional applications, avoid applications when wind speed exceeds 10 mph. For invert applications, avoid applications when wind speed exceeds 15 mph. d. For conventional foliar applications, use a drift retardant and maintain drift control throughout the application period by adding more to the tank as it breaks down from agitation. e. Avoid spraying volatile products when temperatures are forecast to exceed 85° F within 3 days. f. Check the IDALS Sensitive Crops Directory and do not spray adjacent to a listed operation when wind is blowing towards it.		8. Provide copies of daily spray logs to the RCE at the end of each week of spraying (form provided by Iowa DOT).				
Treatment #1: (Only for use on stumps that will be treated with herbicide immediately after cutting)				3. Respond to allegations of any off-target damage attributed to handling and spraying of herbicide.		9. If Contractor does not complete spray item on schedule, the Engineer may adjust the schedule.				
Cut stumps to ground line prior to herbicide application and brush away sawdust from the cut surface. Within 5 minutes of the stump cut, apply triclopyr herbicide. Leave stumps without any additional cutting or grinding for 6 weeks after herbicide treatment to allow time for the herbicide to translocate. Use a water-based triethylamine salt formulation of triclopyr herbicide, labeled for use in and around standing water. Mix and apply the herbicide according to label directions for cut stump treatment. Apply the herbicide at 3 lbs./gal. acid equivalent of triclopyr (for example, for 3 lbs. ae/gal products apply undiluted.) Apply the herbicide using a brush or directed spray, wetting the outer 2 inches of sapwood and the cambium (the tissue just inside of the bark,) including the entire circumference and any torn bark areas. It is not necessary to treat the bark on the sides of the stump or exposed roots				4. Provide the following documents to the Engineer for approval not less than 2 weeks prior to the application. a. A copy of the herbicide and adjuvant labels, including any applicable supplemental labels. b. A copy of the herbicide and adjuvant Material Safety Data Sheets (MSDS.)						
Treatment #2: (Alternative treatment if stumps will not be treated with herbicide immediately after cutting)				5. Have copies of the herbicide and adjuvant labels and MSDSs on-hand and at locations of storage, transport, and application.						
Cut stumps initially to a height of not less than 6 inches and flag to relocate for herbicide treatment. Apply triclopyr herbicide within 7 days of the stump cut. After treating with herbicide, leave stumps without further cutting for not less than 6 weeks to allow time for the herbicide to translocate, then cut or grind stumps to ground line with no additional compensation allowed. Use an oil-soluble formulation of triclopyr, labeled for use on non-irrigation ditch banks and seasonally dry wetlands. Mix the herbicide with an oil carrier to a concentration of 1.0 lb./gal acid equivalent of triclopyr (for example, for 4 lb. ae/gal products, mix 32 oz. product/gal. solution, for a 25% solution.) For the oil carrier, use a penetrating oil labeled for basal or cut-stump treatment: diesel fuel and kerosene-based products will not be accepted. “Ready-to-Use” formulations of 0.75 lb./gal triclopyr acid equivalent will also be accepted. Mix and apply the herbicide according to label directions for cut stump treatment. Apply the herbicide mixture to the outer 2 inches of the cut surface, wetting the sapwood and cambium (the tissue just inside of the bark layer) around the entire circumference, also wetting the sides of the stump to ground line and any exposed roots. It is a violation of federal law to apply this herbicide to areas with standing or flowing water. If soil is saturated or there is standing water in the spray area, see treatment #1. Caution: This herbicide is volatile and may cause off-target damage if used when temperatures exceed 85 degrees F. during the three days following application.				6. Schedule work to maximize efficiency of the herbicide application in relation to weather conditions and plant growth stage. Follow any label recommendations given as “for best results.” a. For weed applications: i. To determine if weeds are “actively growing,” use as a guideline that there needs to have been at least 1 hour of temperature above 65° F and 1 hour of sun in the day prior to, of, or forecast before a rain the day after the application. ii. For spring applications to thistles, apply after basal leaves of Canada thistles are fully extended, and after rosettes of musk thistle are at least 8 inches diameter, but before flower stage. iii. For fall applications to thistles, apply prior to the second hard freeze of 28° F, unless otherwise listed in the label directions.						
Preapproved products:										
Triclopyr herbicide in a water-based formulation: Garlon 3A Tahoe 3A Herbicide Ecotriclopyr Vastlan										
Triclopyr herbicide in an oil-soluble formulation: Garlon 4 Ultra Tahoe 4E Herbicide Triclopyr 4EC Pathfinder II Custom blended pre-mixes must be approved by the Engineer										
Oil carrier Bark Oil Blue LT Diluent Blue Proprietary oil contained in Pathfinder II										
Dye Hi-Light Blue Dye contained in Diluent Blue, Bark Oil Blue, or Pathfinder II										
Method of Measurement and Basis of Payment: The contractor will be paid the contract price for herbicide treatment according to the following schedule:										
Treatment #1 The Contractor will be paid the contract price for herbicide treatment.										
Treatment #2 The Contractor will be paid 80% of the contract price upon the completion of herbicide treatment. The Contractor will be paid 20% of the contract price upon the completion of cutting stumps to ground line.										
FILE NO.		ENGLISH	DESIGN TEAM	Kjormoe\Holub		LINN COUNTY	PROJECT NUMBER	MPIN-380-6(738)17--0N-57	SHEET NUMBER	C.4

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108-23A 08-01-08											
TRAFFIC CONTROL PLAN											
1. Through traffic will be maintained on the project at all times.											
2. Lane closures will not be permitted.											
3. Shoulder closures will be permitted only from 9:00 a.m. to 3:00 p.m.											
\$. Refer to Standard Plans for additional requirements.											

111-01 04-17-12											
COORDINATED OPERATIONS											
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.											
Project				Type of Work							
MPIN-380-6(721)0--0N-52				PCC Patching							
IHSIPX-380-6(490)6--08-52				Pavement Marking							
MBIN-380-6(570)21--0M-57				Bridge Repair							
MBIN-380-6(569)18--0M-57				Slope Protection							
MPIN-380-6(737)22--0N-57				HMA Crack Filling							
IMN-380-6(489)20--0E-57				Bridge Cleaning							
MPIN-380-6(736)20--0N-57				HMA Joint & Crack Sealing							
IMN-380-6(499)25--0E-57				Bridge Repair							
IM-380-6(358)25--13-57				PCC Pavement - Grade & New							

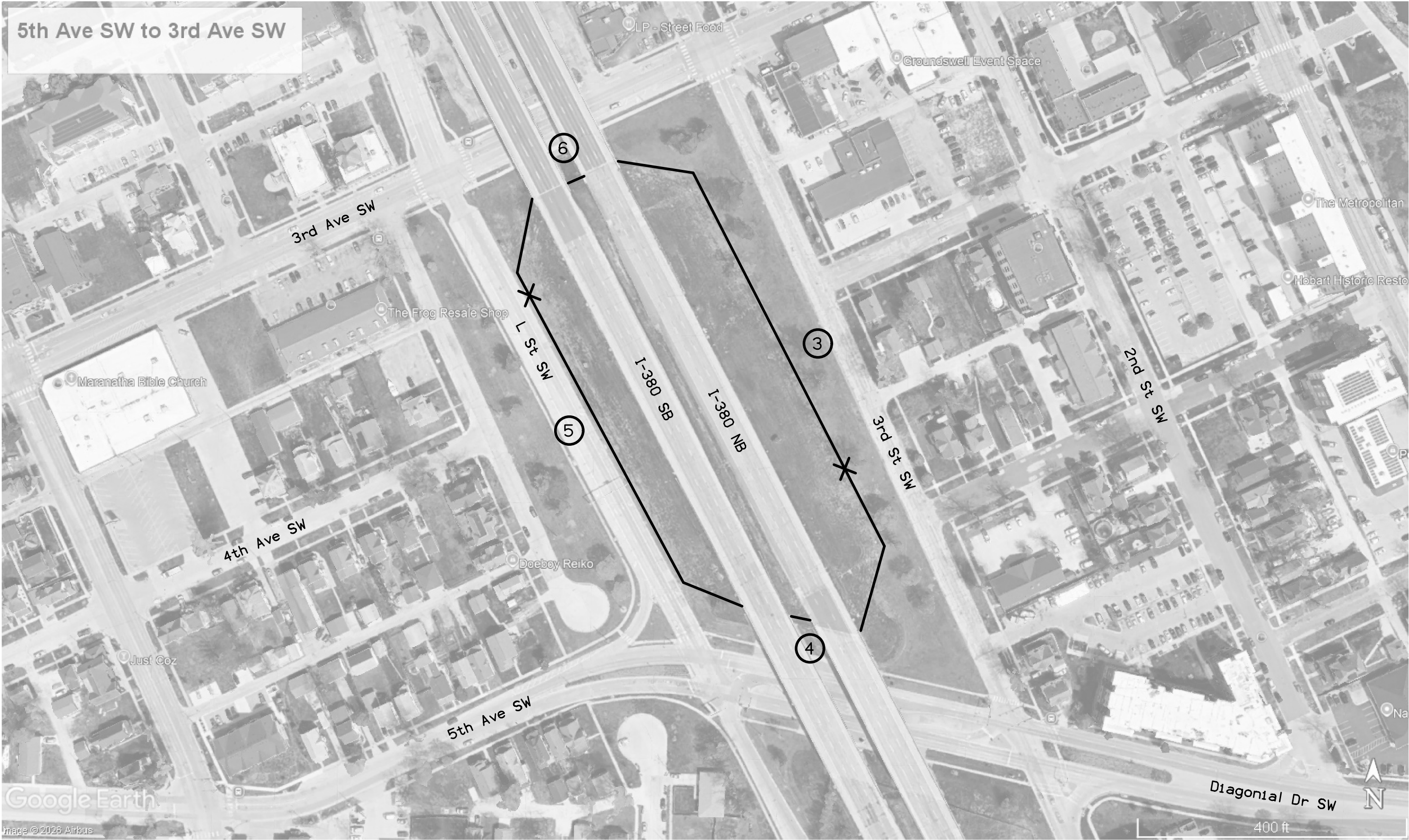
108-25 10-21-14												
511 TRAVEL RESTRICTIONS												
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			None									



- = Fence to Remove and Replace
- - - = Fence to Remove

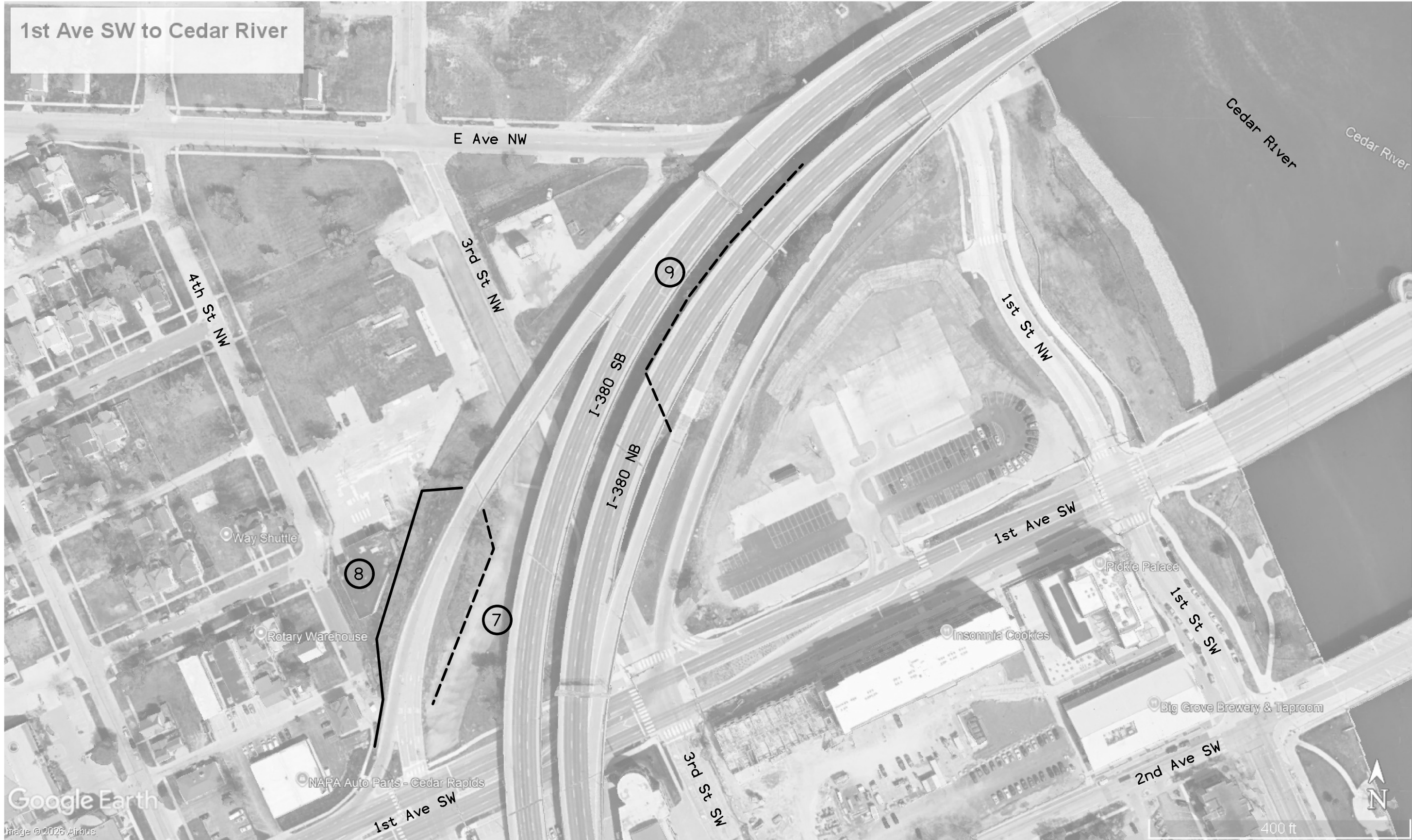
AREAS OF FENCE TO REMOVE AND POSSIBLY REPLACE

5th Ave SW to 3rd Ave SW



— = Fence to Remove and Replace
+ = Gate (UAC)

AREAS OF FENCE TO REMOVE AND REPLACE



- = Fence to Remove and Replace
- - - = Fence to Remove

Note:
Fence Segment ⑨ is Located Under I-380 NB Bridge

AREAS OF FENCE TO REMOVE AND POSSIBLY REPLACE