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 30, 2017**

From: John Bender PE, City Engineer

Re: **May 2017 Update**

Description: Report

- Working with Public Works whenever necessary.
- Working with the Community Development Department to review building site plans, final plats, and rezoning requests. Several large projects are in the planning stage that requires engineering review and approval of proposed plans. Construction of the public utilities is also scheduled to start in the Dell Ridge III Addition and Rolling Prairie III addition.
- The third, fourth, and fifth phases of the Emmons/Robins/North Center Point Road intersection reconstruction project are almost complete. The contractor plans to finish the grading, landscaping, street lights, and seeding on the west one-half of North Center Point Road before we switch traffic and start working on the east one-half. When traffic is moved to the newly constructed west section, work can begin on the east side of Center Point Road. The plan is we will have all work completed on Emmons Street and the west side of Center Point Road. Approximately two more weeks will be needed to finish the remaining work. We have also installed the pedestrian bollards on the two west side sidewalks.
- The consultant has the design plans prepared for the interim changes to the traffic signals at all three intersections at the Boyson Road Interchange. New signal equipment is planned at the Boyson Road/North Center Point Road intersection and both traffic signals at the I-380 off ramps. The plans have been forwarded to the Iowa DOT for their review, with planned action by the City Council on June 21st to hold a public hearing on the plans, specifications, form of contract, and cost estimate. Bidding is scheduled in July with approval of a contract scheduled for July21st.
- We have learned the Iowa DOT has the plans filed to take bids to widening of the northbound I-380 off-ramp at Boyson Road. The bid date for the project is July 18th, with construction this year.

- The consultant has started work on the reconfiguration project on North Center Point Road. We hope to have preliminary plans in approximately one month.

- We have been working the Linn County Engineers office to develop plans for the phase I improvements to Edgewood Road between Tower Terrace Road and County Home Road. The phase I project will replace the existing drainage pipes in the roadway with new culverts. The project was bid on May 30th with 5 bidders responding. The appearance low bidder was Peterson Contracting from Reinbeck Iowa at $481,490.50, or approximately 8% under the engineer's estimate. Hiawatha is responsible for approximately 73% of that cost. A 28e agreement with the County has been approved to move forward with the phase I project.

- Joe Griffin from Iowa DNR came to our office May 2nd to review our progress of complying with our MS4 permit. We renewed our DNR permit in 2016 that allows us to operate the public storm water disposal system that drains to our several public waterways. The meeting was very production and Joe has submitted a report making suggestions on ways to improve our reporting system. In the next months we will analyze the report and have discussions with the Storm Water Advisory committee for possible modifications to our system.

- Good news, the Tower Terrace Interchange construction is included in the draft 2018-2022 Iowa Highway program. A sum of $15.4 million is programmed for the 2022 fiscal year. This has taken a lot of coordination with other communities and meetings with DOT staff and officials to make this happen.

DRAWINGS OF PROPOSED IMPROVEMENTS
FOR

BOYSON ROAD CAPACITY IMPROVEMENTS AT NORTH CENTER POINT ROAD AND I-380

IN THE CITY OF HIAWATHA, LINN COUNTY, IOWA

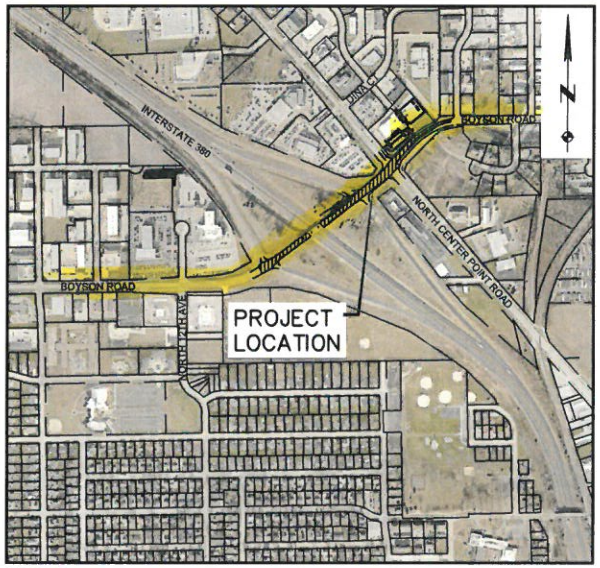
UTILITY AND EMERGENCY TELEPHONE NUMBERS

CITY OF HIAWATHA, IOWA

PUBLIC WORKS DEPARTMENT	(319)-393-1515
POLICE DEPARTMENT	(319)-393-1212
EMERGENCY	911
FIRE DEPARTMENT	(319)-393-4180
EMERGENCY	911
WATER DEPARTMENT	(319)-393-5556
SANITARY AND STORM SEWER DEPARTMENT	(319)-393-6601
CEDAR RAPIDS TRANSIT DEPARTMENT	(319)-286-5573
PARKS AND RECREATION	(319)-393-1515
IOWA ONE CALL (UTILITIES)	(800)-292-8989
MID-AMERICAN ENERGY	(319)-298-5162
CENTURY LINK (TELEPHONE)	
ENGINEER, WEST SIDE	(319)-399-7600
ENGINEER, EAST SIDE	(319)-399-7487
ALLIANT/I.E.S. INDUSTRIES (ELECTRIC, STEAM)	
INFORMATION	(319)-786-1908
MEDIACOM (CABLE TV)	
BUSINESS	(319)-395-9699 EXT 354
LOCATIONS	(800)-292-8989
WINDSTREAM (TELEPHONE / CABLE TV)	
BUSINESS	(319)-538-1985
LOCATIONS	(800)-292-8989
IMON (TELEPHONE / CABLE TV)	(319)-261-4640
SOUTHSLOPE (TELEPHONE / CABLE TV)	(319)-665-5312
IOWA NETWORK SERVICE	(319)-533-2319
ITC MIDWEST	(319)-297-6765
JOINT COMMUNICATIONS NETWORK	(319)-286-5491
LINN COUNTY REC	(319)-377-1587
CEDAR RAPIDS AND IOWA CITY RAILWAY COMPANY	(800)-283-1540
IOWA DEPARTMENT OF TRANSPORTATION	
DISTRICT ENGINEER	(319)-364-0235
MAINTENANCE GARAGES	(319)-364-8189
LINN COUNTY ENGINEER	(319)-892-6400
LINN COUNTY MAINTENANCE	(319)-892-6420

LOCATION MAP

(1" = 1000')



NOTE

THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CEDAR RAPIDS METROPOLITAN AREA DESIGN STANDARDS MANUAL.

SHEET INDEX

NO.	DESCRIPTION
A.01	COVER
A.02	LEGEND
C.01	QUANTITIES AND ESTIMATE REFERENCES
D.01	BOYSON ROAD PLAN AND PROFILE
J.01	TRAFFIC CONTROL AND STAGING PLAN
K.01 - K.02	PAVEMENT MARKINGS
M.01	STORM SEWER PLAN
N.01	TRAFFIC SIGNAL LAYOUT

MAYOR: BILL BENNETT
CITY CLERK: KELLY KORNEGOR
CITY ADMINISTRATOR: KIM DOWNS

COUNCIL PERSONS: AIME WICHTENDAHL
BOB RAMPULLA
DENNY NORTON
DICK OLSON
MARTY BRUNS

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CONTACT PERSON: MATT G. JOHNSON, P.E.
1860 BOYSON ROAD
HIAWATHA, IOWA 52233
PH: (319) 362-9548
FAX: (319) 362-7595

Hiawatha!

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LICENSED PROFESSIONAL ENGINEER
MATTHEW G. JOHNSON
17666
IOWA

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.

Signed: Date:

Matthew G. Johnson, P.E. 17666
My license renewal date is December 31, _____

Pages or sheets covered by this seal:

DRAWINGS OF PROPOSED IMPROVEMENTS FOR BOYSON ROAD CAPACITY IMPROVEMENTS AT NORTH CENTER POINT ROAD AND I-380

CAD File: I:\projects\4000\4089-16-01 Boyson & NCPR Concept\DWG\PO\COVER.dwg Date Plotted : May 30, 2017 – 10:41am Plotted By : MJOHNSON

LINN COUNTY SECONDARY ROAD DEPARTMENT
1888 COUNTY HOME ROAD, MARION, IOWA 52302

Bid Tablulation for:
L-EDGEWOOD RD(18)
Letting Date: May 30, 2017 9:00 AM
Work type: 352-Excavation

					Engineers Estimate		Apparent low bid PETERSON CONTRACTORS INC. P.O. BOX A REINBECK, IA 50669-0155		RICKLEFS EXCAVATING, LTD. 12536 BUFFALO RD. ANAMOSA, IA 52205		PIRC-TOBIN CONSTRUCTION, INC. P.O. BOX 160 ALBURNETT, IA 52202		SCHMITT, DAVE 250 - 50TH AVE S CEDAR RAPIDS,
Line No.	Item No.	Title	Units	Quantity	Unit Price	Extended Price	Unit Price	Extended Price	Unit Price	Extended Pric	Unit Price	Extended Price	Unit Price
1	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	12,000.0	10.00	120,000.00	6.75	81,000.00	6.00	72,000.00	12.50	150,000.00	
2	2104-2710020	EXCAVATION, CLASS 10, CHANNEL	CY	200.0	7.75	1,550.00	6.75	1,350.00	3.00	600.00	8.00	1,600.00	
3	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	2,444.0	5.00	12,220.00	5.00	12,220.00	3.50	8,554.00	12.00	29,328.00	
4	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	2,056.00	14.00	28,784.00	14.25	29,298.00	13.00	26,728.00	20.00	41,120.00	
5	2210-0475105	CHOKE STONE BASE	TON	2,414.00	15.00	36,210.00	13.50	32,589.00	13.00	31,382.00	18.00	43,452.00	
6	2210-0475290	MACADAM STONE BASE	TON	2,300.00	15.00	34,500.00	13.75	31,625.00	13.50	31,050.00	18.00	41,400.00	
7	2401-6745650	REMOVAL OF EXISTING STRUCTURES	LS	1.00	5,000.00	5,000.00	5,800.00	5,800.00	3,500.00	3,500.00	7,500.00	7,500.00	13,
8	2402-0425031	GRANULAR BACKFILL	TON	1,513.0	14.00	21,182.00	17.50	26,477.50	12.00	18,156.00	12.50	18,912.50	
9	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	1,220.0	5.00	6,100.00	5.50	6,710.00	4.00	4,880.00	8.00	9,760.00	
10	2403-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)	CY	16.2	450.00	7,290.00	380.00	6,156.00	150.00	2,430.00	250.00	4,050.00	
11	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	1,088	1.00	1,088.00	2.50	2,720.00	1.00	1,088.00	1.25	1,360.00	
12	2414-6425420	CONCRETE BARRIER, PARAPET	LF	60.0	1.00	60.00	58.50	3,510.00	50.00	3,000.00	45.00	2,700.00	
13	2415-2110806	PRECAST CONCRETE BOX CULVERT, 8 FT. X 6 FT.	LF	132.0	520.00	68,640.00	575.00	75,900.00	950.00	125,400.00	825.00	108,900.00	
14	2415-2111004	PRECAST CONCRETE BOX CULVERT, 10 FT. X 4 FT.	LF	66.0	700.00	46,200.00	665.00	43,890.00	1,000.00	66,000.00	875.00	57,750.00	
15	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	60	60.00	3,600.00	61.25	3,675.00	70.00	4,200.00	60.00	3,600.00	
16	2416-1200236	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 36 IN.	LF	16	120.00	1,920.00	94.25	1,508.00	130.00	2,080.00	145.00	2,320.00	
17	2416-1541036	REMOVE AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL TO 36 IN.	LF	145	70.00	10,150.00	33.50	4,857.50	30.00	4,350.00	25.00	3,625.00	
18	2417-1060024	CULVERT, CORRUGATED METAL ROADWAY PIPE, 24 IN. DIA.	LF	116	43.00	4,988.00	63.25	7,337.00	50.00	5,800.00	60.00	6,960.00	
19	2417-1060030	CULVERT, CORRUGATED METAL ROADWAY PIPE, 30 IN. DIA.	LF	15	65.00	975.00	165.00	2,475.00	80.00	1,200.00	65.00	975.00	
20	2417-1060036	CULVERT, CORRUGATED METAL ROADWAY PIPE, 36 IN. DIA.	LF	15	80.00	1,200.00	75.50	1,132.50	90.00	1,350.00	125.00	1,875.00	
21	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH	2	500.00	1,000.00	1,930.00	3,860.00	500.00	1,000.00	1,800.00	3,600.00	1,
22	2507-6800061	REVETMENT, CLASS E	TON	150.00	30.00	4,500.00	31.25	4,687.50	30.00	4,500.00	50.00	7,500.00	
23	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	100.0	10.50	1,050.00	5.50	550.00	6.00	600.00	6.00	600.00	
24	2518-6910000	SAFETY CLOSURE	EACH	7	35.00	245.00	100.00	700.00	100.00	700.00	125.00	875.00	
25	2528-8445110	TRAFFIC CONTROL	LS	1.00	5,000.00	5,000.00	9,700.00	9,700.00	6,500.00	6,500.00	10,000.00	10,000.00	1,
26	2528-8445113	FLAGGERS	EACH	40.0	450.00	18,000.00	450.00	18,000.00	275.00	11,000.00	425.00	17,000.00	
27	2533-4980005	MOBILIZATION	LS	1.00	20,000.00	20,000.00	23,000.00	23,000.00	125,000.00	125,000.00	45,000.00	45,000.00	21,
28	2554-0212020	VALVE BOX EXTENSION	EACH	5	200.00	1,000.00	300.00	1,500.00	110.00	550.00	250.00	1,250.00	
29	2554-0212030	VALVE BOX REPLACEMENT	EACH	14	1,000.00	14,000.00	725.00	10,150.00	150.00	2,100.00	750.00	10,500.00	
30	2554-0214000	FIRE HYDRANT ADJUSTMENT	EACH	3	200.00	600.00	850.00	2,550.00	1,800.00	5,400.00	1,800.00	5,400.00	2,
31	2599-9999005	FIRE HYDRANT RELOCATION	EACH	3	1,500.00	4,500.00	1,600.00	4,800.00	3,500.00	10,500.00	2,500.00	7,500.00	2,
32	2601-2634100	MULCHING	ACRE	4.5	1,200.00	5,400.00	500.00	2,250.00	650.00	2,925.00	600.00	2,700.00	
33	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	4.5	1,200.00	5,400.00	1,200.00	5,400.00	1,500.00	6,750.00	1,500.00	6,750.00	1,
34	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF	6,075.0	4.00	24,300.00	1.50	9,112.50	2.10	12,757.50	1.65	10,023.75	
35	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	10	500.00	5,000.00	500.00	5,000.00	10.00	100.00	250.00	2,500.00	
				Totals		**521,652.00**		**481,490.50**		**604,130.50**		**668,386.25**	
				% of Estimate				92.30		115.81		128.13	

2018 - 2022 IOWA HIGHWAY PROGRAM

RTE	LOCATION	MILES	TYPE OF WORK	PROJECT ESTIMATED COSTS X $1000 2018	2019	2020	2021	2022
380	BOYSON RD INTERCHANGE IN HIAWATHA NB OFF RAMP	0.1	PAVEMENT WIDEN	800				
380	TOWER TERRACE INTERCHANGE IN HIAWATHA STATE SHARE	0.5	BRIDGE REPLACEMENT					4200
			GRADE AND PAVE					10329
			LIGHTING					90
			RIGHT OF WAY					170
			TRAFFIC SIGNALS					312
			TRAFFIC SIGNS					299
922	US 30 TO WCL OF CEDAR RAPIDS	0.2	PAVEMENT REHAB	900				
	(58) LOUISA							
61	2.0 MI S OF IA 92 TO MUSCATINE CO	6.0	EROSION CONTROL	600				
			PAVEMENT REHAB	296				
78	2.0 MI W OF US 61		RIGHT OF WAY	2				
			SLOPE IMPROVEMENT	150				
78	HONEY CREEK 1.8 MI W OF US 61		BRIDGE REPLACEMENT					2000
92	LITTLE INDIAN CREEK 1.9 MI W OF S JCT US 61		BRIDGE DECK OVERLAY					275
	(59) LUCAS							
14	0.3 MI S OF CO RD S33		SLOPE IMPROVEMENT	35				
34	STREAM 2.3 MI E OF E JCT US 65		BRIDGE REPLACEMENT					1030
	(60) LYON							
9	0.25 MI W OF ECL OF ROCK RAPIDS TO CO RD L26	13.6	PAVEMENT REHAB	940				
	(61) MADISON							
169	NORTH BRANCH NORTH RIVER 5.2 MI S OF CO RD F-90		BRIDGE REHABILITATION	402				
169	NORTH RIVER 3.5 MI N OF N JCT IA 92		BRIDGE DECK OVERLAY					500

$15,400,000

I-380 Improvements

in Linn County

Concept Displays - Tower Terrace Road

Diamond Interchange

IOWA DOT