CITY OF WEST DES MOINES
CITY COUNCIL MEETING COMMUNICATION

DATE: May 4, 2015

ITEM:

Resolution - Ordering Construction
Grand Avenue Improvements, Phase 5
Raccoon River Regional Park to South 35th Street
IDOT No. STP-U-8260(634)-70-77

FINANCIAL IMPACT:

The engineering estimate of construction cost for the Grand Avenue Improvements Phase 5 is $7,795,332.40. Payments will be made from budgeted account number 4047.75.820.6.7910 from General Obligation Bonds. The City will receive reimbursements for part of the cost from the Iowa Department of Transportation (IDOT) through Federal funding.

BACKGROUND:

This project is the last of six projects to reconstruct Grand Avenue between Railroad Avenue and I-35.

A Bid Letting at the IDOT is scheduled for Tuesday, May 19, 2015. A Public Hearing on the project should be scheduled for 5:35 p.m. on Monday, June 1, 2015. The contract would be awarded on Monday, June 1, 2015 subject to IDOT concurrence, and work will begin shortly thereafter.

OUTSTANDING ISSUES: None.

RECOMMENDATION:

City Council Adopt:

- Resolution Ordering Construction of the Grand Avenue Improvements, Phase 5.
- Fixing 10:30 a.m. on Tuesday, May 19, 2015, as time and date for project Bid Letting.
- Ordering the City Clerk to publish notice of Letting and Public Hearing.

Lead Staff Member: Duane C. Wittstock, P.E., L.S., City Engineer

STAFF REVIEWS

Department Director	Duane C. Wittstock, City Engineer DCW
Appropriations/Finance	Tim Stiles, Finance Director
Legal	Richard Scieszinski, City Attorney RJS
Agenda Acceptance	RTJ

PUBLICATION(S) (if applicable)

Published In	
Dates(s) Published	

SUBCOMMITTEE REVIEW (if applicable)

Committee	Public Works		
Date Reviewed	April 29, 2015		
Recommendation	Yes	No	Split

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Resolution Ordering Construction and
Notice of Public Hearing on Plans, Specifications,
Form of Contract, Estimate of Cost, and
Directing Advertisement for Bids

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST DES MOINES, IOWA, that the following described public improvement:

Grand Avenue Improvements Project, Phase 5
Project No. 0510-019-2013

is hereby ordered constructed according to the Plans and Specifications prepared by the City of West Des Moines and now on file in the office of City Clerk.

BE IT FURTHER RESOLVED, that the detailed Plans and Specifications, Form of Contract, Bid Security, and Notice to Bidders are hereby approved, subject to hearing thereon, and that the same are now on file in the office of City Clerk for public inspection.

BE IT FURTHER RESOLVED, that the City Clerk is hereby directed to publish notice of hearing on the Plans and Specifications, Form of Contract, Bid Security and Estimate of Costs for said project to be held at 5:35 p.m. on June 1, 2015, with said notice published not less than four (4) days nor more than twenty (20) days prior to the date heretofore fixed.

BE IT FURTHER RESOLVED, that prospective actions by the City Clerk in publishing a Notice to Bidders for said project (publication to be not less than four (4) days nor more than forty-five (45) days prior to the date for receiving bids) are hereby approved. Said bids are to be filed prior to the time appointed and location indicated by the Iowa Department of Transportation on Tuesday, May 19, 2015.

BE IT FURTHER RESOLVED, that the bids received for construction of said improvements will be opened, publicly read and tabulated by the Iowa Department of Transportation at the appointed time on Tuesday, May 19, 2015, and the results of said bids shall be considered at a meeting of this Council on Monday, June 1, 2015 at 5:35 p.m. and acted upon at said time, or such time as may then be fixed.

PASSED AND APPROVED this **4th** day of **May, 2015.**

Steven K. Gaer, Mayor

ATTEST:

Ryan T. Jacobson, City Clerk

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ENGINEER'S FINAL OPINION OF PROBABLE COST

Grand Avenue - PCC Pavement - Grade and Replace

Iowa DOT No. STP-U-8260(634)--70-77
West Des Moines, Iowa

Date: April 2, 2015

ITEM NO.	ITEM CODE	ITEM	UNIT	QUANTITY	UNIT PRICE	Total Cost
ROADWAY CONSTRUCTION ITEMS						
1	2101-0850001	CLEARING AND GRUBBING	ACRE	2.7	$ 3,750.00	$ 10,125.00
2	2102-2625001	EMBANKMENT IN PLACE, CONTRACTOR FURNISH	CY	125100	$ 15.00	$ 1,876,500.00
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	34217	$ 10.00	$ 342,170.00
4	2102-4560000	LOCATNG TILE LINES	STA	5	$ 500.00	$ 2,500.00
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	13465	$ 15.00	$ 201,975.00
6	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL	CY	151420	$ 1.50	$ 227,130.00
7	2109-8225100	SPECIAL COMPACTION OF SUBGRADE	STA	101	$ 350.00	$ 35,350.00
8	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	3750	$ 15.00	$ 56,250.00
9	2115-0100000	MODIFIED SUBBASE	CY	1250	$ 45.00	$ 56,250.00
10	2121-7425010	GRANULAR SHOULDERS, TYPE A	TONS	827	$ 35.00	$ 28,945.00
11	2123-7450020	SHOULDER FINISHING, EARTH	STA	114.41	$ 150.00	$ 17,161.50
12	2301-1033080	STANDARD/SLIP-FORM PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.	SY	3404	$ 60.00	$ 204,240.00
13	2301-1033090	STANDARD/SLIP-FORM PCC PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY	29736	$ 70.00	$ 2,081,520.00
14	2301-6911722	PCC PAVEMENT SAMPLE	LS	1	$ 10,000.00	$ 10,000.00
15	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS	EACH	29800	$ 1.00	$ 29,800.00
16	2316-0000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS	EACH	24900	$ 1.00	$ 24,900.00
17	2401-6745650	REMOVAL OF EXISTING STRUCTURE	LS	1	$ 50,000.00	$ 50,000.00
18	2416-0100015	APRONS, CONCRETE 15 IN. DIA.	EACH	6	$ 1,000.00	$ 6,000.00
19	2416-0100024	APRONS, CONCRETE 24 IN. DIA.	EACH	2	$ 1,000.00	$ 2,000.00
20	2416-0100054	APRONS, CONCRETE 54 IN. DIA.	EACH	1	$ 2,500.00	$ 2,500.00
21	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48"	EACH	1	$ 5,000.00	$ 5,000.00
22	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60"	EACH	1	$ 7,500.00	$ 7,500.00
23	2435-0250100	INTAKE, SW-501	EACH	2	$ 3,500.00	$ 7,000.00
24	2435-0250300	INTAKE, SW-503	EACH	2	$ 4,000.00	$ 8,000.00
25	2435-0250500	INTAKE, SW-505	EACH	15	$ 6,000.00	$ 90,000.00
26	2435-0250600	INTAKE, SW-506	EACH	6	$ 7,000.00	$ 42,000.00
27	2435-0250610	INTAKE, SW-506, MODIFIED	EACH	1	$ 8,000.00	$ 8,000.00
28	2435-0251224	INTAKE, SW-512, 24"	EACH	2	$ 2,000.00	$ 4,000.00
29	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH	20	$ 3,500.00	$ 70,000.00
30	2502-8212036	SUBDRAIN, LONGITUDINAL, (SHOULDER) 6 IN. DIA.	LF	7599	$ 10.00	$ 75,990.00
31	2502-8220193	SUBDRAIN OUTLET (RF-19C)	EACH	35	$ 250.00	$ 8,750.00
32	2502-8221006	SUBDRAIN RISER, 6"	EACH	28	$ 500.00	$ 14,000.00
33	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 24 IN.	LF	754	$ 80.00	$ 60,320.00
34	2503-0114254	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 54 IN.	LF	146	$ 180.00	$ 26,280.00
35	2503-0114272	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 72 IN.	LF	127	$ 300.00	$ 38,100.00
36	2503-0114615	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 15 IN.	LF	1897	$ 70.00	$ 132,790.00
37	2507-3250005	ENGINEERING FABRIC	SY	602	$ 5.00	$ 3,010.00
38	2507-6800061	REVETMENT, CLASS E	TONS	312	$ 60.00	$ 18,720.00
39	2507-8029000	EROSION STONE	TONS	210	$ 60.00	$ 12,600.00
40	2510-6745850	REMOVAL OF PAVEMENT	SY	17540	$ 10.00	$ 175,400.00
41	2511-7526106	SIDEWALK, REINFORCED PCC, 6"	SY	5372	$ 42.00	$ 225,624.00
42	2511-7528101	DETECTABLE WARNINGS	SF	200	$ 150.00	$ 30,000.00
43	2518-8910000	SAFETY CLOSURE	EACH	4	$ 500.00	$ 2,000.00
44	2526-8285000	CONSTRUCTION SURVEY	LS	1	$ 50,000.00	$ 50,000.00
45	2527-9263109	PAINTED PAVEMENT MARKINGS, WATERBORNE/SOLVENT	STA	145.85	$ 25.00	$ 3,646.25
46	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE	STA	173.65	$ 40.00	$ 6,946.00
47	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	29.46	$ 125.00	$ 3,682.50
48	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE	EACH	19	$ 175.00	$ 3,325.00
49	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	152.25	$ 25.00	$ 3,806.25
50	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH	2	$ 150.00	$ 300.00
51	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	160.88	$ 30.00	$ 4,826.40
52	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	19	$ 125.00	$ 2,375.00
53	2528-8445110	TRAFFIC CONTROL	LS	1	$ 75,000.00	$ 75,000.00
54	2528-8445113	FLAGGER	EACH	1	$ 15,000.00	$ 15,000.00
55	2533-4980005	MOBILIZATION	LS	1	$ 500,000.00	$ 500,000.00
56	2554-0114008	WATER MAIN, TRENCHED, PVC, 8"	LF	152	$ 80.00	$ 12,160.00
57	2554-0114012	WATER MAIN, TRENCHED, PVC, 12"	LF	39	$ 90.00	$ 3,510.00
58	2554-0114016	WATER MAIN, TRENCHED, PVC, 16"	LF	617	$ 100.00	$ 61,700.00
59	2554-0203000	FITTINGS BY WEIGHT, DI	LB	2938	$ 8.00	$ 23,504.00
60	2554-0207008	VALVE, GATE, DIP, 8"	EACH	1	$ 1,750.00	$ 1,750.00
61	2554-0207012	VALVE, GATE, DIP, 12"	EACH	2	$ 2,000.00	$ 4,000.00
62	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH	2	$ 5,000.00	$ 10,000.00
63	2595-0005135	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR IOWA INTERSTATE RR LTD.	LS	1	$ 15,000.00	$ 15,000.00
64	2595-0005150	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR UNION PACIFIC RAILROAD CO.	LS	1	$ 15,000.00	$ 15,000.00
65	2599-9999005	ADJUSTMENT OF SANITARY SEWER VALVE/CLEANOUT	EACH	3	$ 500.00	$ 1,500.00
66	2599-9999005	VALVE, GATE, DIP, 16"	EACH	1	$ 3,000.00	$ 3,000.00
67	2599-9999005	GATE, OUTLET CONTROL, FLAP, PRESSURE STORM SEWER PIPE, DIP, 20"	EACH	1	$ 2,000.00	$ 2,000.00

Foth Infrastructure and Environment, LLC
8191 Birchwood Court, Suite L
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Phone: (515) 254-1393
Fax: (515) 254-1642

Date Prepared: 4/2/2015
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ENGINEER'S FINAL OPINION OF PROBABLE COST

Grand Avenue - PCC Pavement - Grade and Replace

Iowa DOT No. STP-U-8260(634)--70-77
West Des Moines, Iowa

Date: April 2, 2015

ITEM NO.	ITEM CODE	ITEM	UNIT	QUANTITY	UNIT PRICE	Total Cost
68	2599-9999009	PRESSURE STORM SEWER PIPE, DIP, 20"	LF	175	$ 100.00	$ 17,500.00
69	2599-9999010	CULVERT HEADWALL WITH FLAP GATE, RCP, 54"	LS	1	$ 25,000.00	$ 25,000.00
70	2601-2634105	MULCH, WOOD CELLULOSE FIBER	ACRE	24.2	$ 1,500.00	$ 36,300.00
71	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	12.1	$ 2,000.00	$ 24,200.00
72	2601-2642120	STABILIZE CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	12.1	$ 850.00	$ 10,285.00
73	2602-0000020	SILT FENCE	LF	13388	$ 2.00	$ 26,772.00
74	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	1395	$ 2.00	$ 2,790.00
75	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	11639	$ 1.00	$ 11,639.00
76	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1164	$ 1.00	$ 1,164.00
77	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN.	LF	12440	$ 3.00	$ 37,320.00
78	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN.	LF	12440	$ 0.50	$ 6,220.00
79	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	3	$ 500.00	$ 1,500.00
80	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	$ 1,000.00	$ 1,000.00
						$ -
		CULVERT QUANTITIES				$ -
1	2402-0425040	FLOODED BACKFILL	CY	635	$ 50.00	$ 31,750.00
2	2402-2720000	EXCAVATION CLASS 20	CY	1412	$ 35.00	$ 49,420.00
3	2403-0100020	STRUCTURAL CONCRETE (RCB)	CY	402.5	$ 600.00	$ 241,500.00
4	2404-7775000	REINFORCING STEEL	LB	63847	$ 1.50	$ 95,770.50
5	2519-1001000	FENCE, CHAIN LINK, VINYL COATED	LF	155.4	$ 50.00	$ 7,770.00
6	2599-9999010	STOP LOGS	LS	1	$ 15,000.00	$ 15,000.00
SUBTOTAL ROADWAY CONSTRUCTION						$ 7,795,332.40
		CONTINGENCY (5%)				$389,766.62
TOTAL ESTIMATED CONSTRUCTION COSTS						**$ 8,185,100.00**

Notes:
1.) The unit prices are based on awarded contract prices for 2014 and DO NOT include an inflation factor.
2.) Estimate includes S. 35th Street intersection full-build with 3-lane section north and south of Grand Ave.
3.) This estimate DOES NOT include costs associated with possible utility relocation.

Foth Infrastructure and Environment, LLC
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ENGINEER'S FINAL OPINION OF PROBABLE COST

Grand Avenue - PCC Pavement - Grade and Replace

Iowa DOT No. STP-U-8260(634)--70-77
West Des Moines, Iowa

Date: April 2, 2015

ITEM NO.	ITEM CODE	ITEM	UNIT	QUANTITY	UNIT PRICE	Total Cost
LIGHTING AND SIGNING (ESTIMATE)						
		Roadway Lighting	LS	1	$ 25,000.00	$ 25,000.00
		Roadway Signing	LS	1	$ 7,500.00	$ 7,500.00
SUBTOTAL						$ 32,500.00
		CONTINGENCY (5%)				$ 1,625.00
TOTAL ESTIMATED LIGHTING/SIGNING COSTS						$ 35,000.00
MITIGATION (ESTIMATE)						
		Wetland Mitigation	LS	1	$ 40,000.00	$ 40,000.00
		Waters of the US	LS	1	$ 75,000.00	$ 75,000.00
SUBTOTAL						$ 115,000.00
		CONTINGENCY (20%)				$ 23,000.00
ESTIMATED WETLAND MITIGATION COSTS						$ 138,000.00
RIGHT OF WAY (ESTIMATE)						
		Parcel -				
		Fee Title	AC	0.0	$ 15,000.00	$ -
		Temporary Easement	AC	6.0	$ 10,500.00	$ 63,000.00
		Drainage/PUE/Other	AC	0.5	$ 15,000.00	$ 7,500.00
		Borrow -				
			AC	0.0	$ 2,500.00	$ -
SUBTOTAL						$ 70,500.00
		CONTINGENCY (20%)				$ 14,100.00
ESTIMATED RIGHT-OF-WAY COSTS						$ 84,600.00
TOTAL ESTIMATED PROJECT COSTS						$ 8,442,700.00

Notes:
1.) Wetland estimate for impacts to Waters of the US based on preliminary proposed culvert locations and assumption that mitigation will be required.
2.)
3.)

		Administration and Engineering (Includes Enviromental, Geotech and Real Estate Services)	LS	1.0	$ 571,724.00	$ 571,724.00
		Construction Admin and Observation	LS	1.0	$ 399,880.00	$ 399,880.00
		Annual Wetland Monitoring - 5 years (required by COE) (includes two site visits plus report)	YEAR	5.0	$ 5,000.00	$ 25,000.00
TOTAL ESTIMATED PROJECT COSTS (ADMIN. & ENGINEERING)						$9,439,400.00

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Location Map

Grand Avenue Reconstruction Phase 5
0510-019-2013

N

To the best of our knowledge the information included in this document is correct. The City of West Des Moines makes no warranty as to the accuracy of the information.

Legend
Project Location

0 300 600 1,200
Feet