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**MEMORANDUM**

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TO: RANDY HILL, PUBLIC WORKS DIRECTOR  
FROM: JON LUTZ, CITY ENGINEER  
SUBJECT: 2011 CEDAR STREET CULVERT EXTENSIONS  
DATE: JULY 5, 2011

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**INTRODUCTION:**

The City of Muscatine intends to proceed with reconstructing Cedar Street from Houser to Parham.

**BACKGROUND:**

The project has been divided into 3 phases. Phase 1 in 2011 will be work associated with culvert extensions near the Wood Creek and Stonebrook subdivision entrances. Phase 2 in 2012 will be water, electric, gas, and telephone utility relocations. Phase 3 in 2013 will be paving reconstruction and grading work on the entire length. Phase 1 must be completed before phase 2 can begin. A public hearing was held on April 7<sup>th</sup> 2011. The plans and cost estimate are completed and attached.

**RECOMMENDATION/RATIONALE:**

I recommend city council approve the plans and specifications and cost estimate and set a bid opening date for July 28<sup>th</sup>, 2011.

**ADDITIONAL INFORMATION:**

1. Construction plans and cost estimate.

**Cedar Street Reconstruction  
Houser to Parham  
Cost estimate  
CULVERT EXTENSIONS**

5-Jun-11

#	ITEM	QUANTITY	UNIT	PRICE/UNIT	TOTAL
	General				
A1	Mobilization	1	LS	\$15,000.00	\$15,000.00
A2	Traffic Control	1	LS	\$2,000.00	\$2,000.00
A3	Rural Seeding	6	ACRE	\$1,750.00	\$10,500.00
A4	Urban Seeding	2	ACRE	\$2,000.00	\$4,000.00
A5	Silt Fence	1000	LF	\$3.50	\$3,500.00
A6	Clear & Grub	4	ACRE	\$5,000.00	\$20,000.00
A7	Construction staking	1	LS	\$10,000.00	\$10,000.00
	Culvert 1				
B1	Grading	3000	CY	\$8.00	\$24,000.00
B2	Revetment Stone	200	TONS	\$55.00	\$11,000.00
B3	Structural Concrete	150	CY	\$550.00	\$82,500.00
B4	Railing	150	LF	\$55.00	\$8,250.00
B5	Sidewalk remove & replace	200	SF	\$4.00	\$800.00
B6	15" RCP	40	LF	\$30.00	\$1,200.00
B7	15" RCP apron	1	EA	\$450.00	\$450.00
B8	1" ballast stone	150	TONS	\$25.00	\$3,750.00
	Culvert 2				
C1	Grading	5000	CY	\$8.00	\$40,000.00
C2	8'x8' precast culvert extension	60	LF	\$475.00	\$28,500.00
C3	Structural concrete	20	CY	\$550.00	\$11,000.00
C4	Revetment stone	100	TON	\$55.00	\$5,500.00
C5	1" ballast stone	120	TONS	\$25.00	\$3,000.00
C6	18" RCP	50	LF	\$35.00	\$1,750.00
C7	18" RCP apron	1	EA	\$650.00	\$650.00
C8	5' Manhole	2	EA	\$2,750.00	\$5,500.00
C9	36" RCP	30	LF	\$85.00	\$2,550.00
C10	6' Manhole	1	EA	\$4,000.00	\$4,000.00
	Retaining Wall				
D1	Structural concrete	206	CY	\$550.00	\$113,300.00
D2	Railing	150	LF	\$35.00	\$5,250.00
D3	Grading	7000	CY	\$8.00	\$56,000.00
D4	7" PCC driveway	247	SY	\$32.00	\$7,904.00
D5	5' Manhole	2	EA	\$2,750.00	\$5,500.00
D6	18" RCP	200	LF	\$30.00	\$6,000.00
D7	15" RCP	25	LF	\$30.00	\$750.00
D8	15" RCP apron	1	EA	\$450.00	\$450.00
D9	24" RCP	200	LF	\$60.00	\$12,000.00
D10	24" RCP apron w/ toe wall	1	EA	\$1,500.00	\$1,500.00
D11	Revetment Stone	75	TON	\$54.00	\$4,050.00
SUBTOTAL:					\$512,104.00
10% CONTINGENCY:					\$51,210.40
TOTAL:					<b>\$563,314.40</b>

**Cedar Street Reconstruction  
Houser to Parham  
Cost estimate  
UTILITIES**

11-May-11

#	ITEM	QUANTITY	UNIT	PRICE/UNIT	TOTAL
1	Water Main Replacement 10"	1	LS	\$141,767.00	\$141,767.00
2	Relocate HV Elect. Parham	1	LS	\$0.00	\$0.00
3	Relocate HV Elect. Cedar	1	LS	\$225,300.00	\$225,300.00
4	Relocate Communications	1	LS	\$60,000.00	\$60,000.00
5	Relocate Telephone	1	LS	\$0.00	\$0.00
6	Relocate Gas	1	LS	\$0.00	\$0.00
SUBTOTAL:					\$427,067.00
10% CONTINGENCY:					\$42,706.70
TOTAL:					<b>\$469,773.70</b>

**Cedar Street Reconstruction  
Houser to Parham  
Cost estimate  
PAVING**

11-May-11

#	ITEM	QUANTITY	UNIT	PRICE/UNIT	TOTAL
1	Pavement removal	31785	SY	\$4.00	\$127,140.00
2	9" PCC	36968	SY	\$38.00	\$1,404,784.00
3	Driveway replacement	1000	SY	\$50.00	\$50,000.00
4	Remove sidewalk	2000	SF	\$1.00	\$2,000.00
5	5" PCC Trail	67000	SF	\$3.67	\$245,890.00
6	Granular Subbase	12734	TONS	\$8.00	\$101,872.00
7	Subdrain	15430	LF	\$4.50	\$69,435.00
8	Inlet removal	8	EA	\$500.00	\$4,000.00
9	New inlet	25	EA	\$3,500.00	\$87,500.00
10	24" RCP	3500	LF	\$60.00	\$210,000.00
11	Excavation	44000	CY	\$8.00	\$352,000.00
12	Subgrade preparation	38355	SY	\$1.50	\$57,532.50
13	Signals	1	EA	\$33,000.00	\$33,000.00
14	Guardrail	350	LF	\$30.00	\$10,500.00
15	Street lighting conduit	20	EA	\$0.00	\$0.00
16	Street lighting	20	EA	\$0.00	\$0.00
17	Sod	132000	SF	\$0.50	\$66,000.00
SUBTOTAL:					\$2,821,653.50
10% CONTINGENCY:					\$282,165.35
TOTAL:					<b>\$3,103,818.85</b>

**Cedar Street Reconstruction  
Houser to Parham  
Cost estimate**

11-May-11

**2011 Culverts**

Topo Survey	\$	36,620.00
Easement Purchase	\$	15,000.00
Easement Administration	\$	4,000.00
Easement Survey	\$	9,100.00
Design	\$	15,000.00
Construction Cost	\$	563,314.40
Administration	\$	3,000.00
Inspection	\$	10,000.00
Testing	\$	4,000.00
Total	\$	<u>623,414.40</u>

**2012 Utilities**

Construction Cost	\$	469,773.70
Administration	\$	10,000.00
	\$	<u>479,773.70</u>

**2013 Paving**

Easement Purchase	\$	5,000.00
Easement Administration	\$	3,500.00
Easement Survey	\$	7,000.00
Design	\$	45,000.00
Construction Cost		\$3,103,818.85
Administration	\$	10,000.00
Inspection	\$	25,000.00
Testing	\$	25,000.00
Total	\$	<u>3,224,318.85</u>

**Total Project Cost \$ 4,327,506.95**

# **RESOLUTION NO. \_\_\_\_\_**

## **APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT, COST ESTIMATE AND SETTING DATE FOR RECEIPT OF BIDS**

### **FOR: CEDAR STREET CULVERT EXTENSIONS**

WHEREAS, there is on file in the Office of City Clerk a copy of the plans, specifications, form of contract, and notice to bidders prepared by the City Engineer for the proposed Cedar Street Culvert Extensions; and

WHEREAS, said plans, specifications, form of contract, and cost estimate have been examined by this Council;

NOW, THEREFORE, BE IT RESOLVED BY THIS COUNCIL that:

1. All objections to the foregoing plans, specifications, form of contract, notice to bidders, and cost estimate are overruled.
2. The foregoing plans, specifications, form of contract, notice to bidders, and cost estimate are finally approved.
3. Date for Receipt of Bids will be July 28, 2011.

(NOTICE TO BIDDERS ATTACHED)

PASSED, APPROVED AND ADOPTED THIS 7<sup>th</sup> DAY OF JULY, 2011.

CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

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Richard W. O'Brien, Mayor

ATTEST:

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Gregg Mandsager, City Administrator

(SEAL)

## ***NOTICE TO BIDDERS***

Notice is hereby given that the City of Muscatine, Iowa, will receive sealed proposals in the office of the City Clerk, City Hall, until 10:00 a.m, July 28, 2011, for constructing Cedar Street Culvert Extensions for the City of Muscatine. At 10:05 a.m. on the same day the City's Purchasing Agent shall open the bids received and announce the results.

Bids will be reported to the City Council at their meeting to be held at 7:00 p.m. August 4, 2011. Said proposals shall be acted on at that time or at such later time and place as may then be fixed.

### **Description of the Type and Location of the Project**

The work includes clearing and grubbing, grading, structural concrete storm sewer, precast culvert, sidewalk, retaining wall, steel railing and concrete driveways.

The project is located on Cedar Street between Parham and Logan.

Proposals shall be submitted on a form furnished by the City and accompanied by a bid security in an amount equal to five (5) percent of the bid and shall stand as security that the successful bidder will enter into a contract for the work bid upon within ten (10) days after acceptance of his proposal by the City.

The City reserves the right to defer acceptance of any proposal for a period not to exceed thirty (30) calendar days and to reject any and all bids, to waive technicalities and to enter into such contract as it shall deem for the best interest of said City.

The Contractor must ensure that employees and applicants for employment are not discriminated against because of their race, color, religion, sex or national origin.

Payment to the Contractor will be made from funds legally available for that purpose. Payment will be made on the basis of monthly estimates equal to ninety-five (95) percent of the contract price. The balance of the five (5) percent due to the contractor will not be made earlier than thirty (30) days from the final acceptance of said work by the City, subject to the conditions and in accordance with the provisions of Chapter 573 of the Code of Iowa. Before final payment will be made, the Contractor shall certify that all materials, labor and services have been paid for.

All work is to be performed and completed under the guidelines of OSHA and in strict compliance with plans and specifications prepared by the City of Muscatine Public Works Department, which have heretofore been approved by the City Council and are now on file for public examination.

Proposed plans, specifications, and contract documents may be obtained from the Department of Public Works, 1459 Washington Street, Public Works Department, Muscatine, Iowa 52761, between the hours of 8:00 a.m. and 5:00 p.m., Monday thru Friday.

This Notice is published by order of the City Council of the City of Muscatine, Iowa.

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Gregg Mandsager, City Administrator