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**MEMORANDUM**

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**TO:** RANDY HILL, PUBLIC WORKS DIRECTOR  
**FROM:** JON LUTZ, CITY ENGINEER  
**SUBJECT:** CEDAR WATER ADJUSTMENTS - AWARD  
**DATE:** FEBRUARY 14, 2014

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**INTRODUCTION:**

The City of Muscatine is reconstructing Cedar Street from Houser to Parham. Prior work to relocate 1968 feet of 10" water main along Cedar Street was performed under the Cedar Utility Project in 2012. Remaining work includes replacing 212' of 8" water main to Logan Street and adjustments of numerous valve boxes and hydrants along the project corridor. These adjustments were not performed with the 2012 Utility Project as they must be performed concurrent with the 2014 Cedar Street Reconstruction. The City Engineer prepared construction plans and specifications with input from MPW staff.

**BACKGROUND:**

The engineer's estimate was \$73,220. Bids were received on February 13<sup>th</sup>, 2014 as follow:

- |                            |              |
|----------------------------|--------------|
| 1. Sulzberger Excavating   | \$ 69,587.00 |
| 2. Triple B Construction   | \$ 71,305.00 |
| 3. Hagerty Earthworks, LLC | \$ 72,743.00 |
| 4. Langman Construction    | \$ 89,295.00 |

The bids were grouped relatively tight near the cost estimate with one bid significantly higher. Detailed bid tabulation is attached. Sulzberger Excavating has successfully performed work on numerous water main projects in Muscatine. Funding for water-related work is outlined in the attached Cedar Water Agreement with MPW approved by City Council in 2012. MPW reimbursed the City for 50% of the water related items in the Cedar Utility Project totaling \$167,531.25 and will reimburse 50% of this project cost. MPW will provide inspection at no cost to the City.

**RECOMMENDATION/RATIONALE:**

The City Engineer recommends awarding the Cedar Water Adjustments Project to Sulzberger Excavating at the February 20<sup>th</sup>, 2014 City Council meeting for \$69,587.00 and that Council authorize the City Administrator and Mayor to enter into contract.

**ADDITIONAL INFORMATION:**

1. Bid Tabulation
2. Construction plans
3. Water Agreement



Donelson, Fran &lt;fdonelson@muscatineiowa.gov&gt;

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## Agenda Items

1 message

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**Lueck, Nancy** <nlueck@muscatineiowa.gov>  
To: Fran Donelson <fdonelson@muscatineiowa.gov>

Fri, Feb 14, 2014 at 4:00 PM

Fran,

I should have the following items for the 2/20/14 agenda:

1. Resolution Authorizing a Loan Agreement and the Future Issuance of General Obligation Corporate Purpose Bonds and Providing for the Levy of Taxes to Pay the Same (Will be coming from John Danos)
2. Resolution Authorizing Internal Advance to Tax Increment Revenue Fund for Weed Park Maintenance Building Construction Project (also from John Danos)
3. Request to Enter into Lease for Postage Equipment Lease (if Pitney Bowes rep calls me back in time)

THANKS,  
Nancy

—

Nancy Lueck  
Finance Director  
City of Muscatine  
215 Sycamore Street  
Muscatine, IA 52761

Phone: 563-264-1550 (Ext. 110)  
Fax: 563-264-0750

Please note new email address as of 8/11/11:  
[nlueck@muscatineiowa.gov](mailto:nlueck@muscatineiowa.gov)

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

**AWARD AND APPROVE CONTRACT FOR  
CEDAR STREET WATER ADJUSTMENTS PROJECT**

WHEREAS, competitive bids were received for the Cedar Street Water Adjustments Project as detailed in the project plans and specifications prepared by the City Engineer.

WHEREAS, the following bid is determined to be the lowest responsible bid for the Cedar Street Water Adjustments Project.

<u>NAME &amp; ADDRESS CONTRACTOR</u>	<u>AMOUNT OF BID</u>
Sulzberger Excavating Muscatine, IA 52761	\$69,587.00

NOW, THEREFORE, BE IT RESOLVED, that the bid be awarded to Sulzberger Excavating in the amount of \$69,587.00 and that the Mayor and City Administrator are authorized to enter into a contract in this amount for the Cedar Street Water Adjustments Project.

PASSED, APPROVED, AND ADOPTED THIS 20<sup>th</sup> DAY OF FEBRUARY, 2014.

\_\_\_\_\_  
DeWayne Hopkins, Mayor

ATTEST:

\_\_\_\_\_  
Gregg Mandsager, City Administrator

**Cedar Water Adjustments - Bid Tabulation**

2/13/2014

Project bid schedule				Engineer's Estimate		Sulzberger		Triple B		Hagerty Earthworks		Langman	
#	ITEM	QUANTITY	UNIT	Price/ Unit	TOTAL	Price/ Unit	Total	Price/Unit	Total	price/Unit	Total	price/Unit	Total
1	Mobilization	1	LS	\$3,000.00	\$3,000.00	\$4,000.00	\$4,000.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$8,500.00	\$8,500.00
2	8" DIWM Class 52	212	LF	\$85.00	\$18,020.00	\$71.00	\$15,052.00	\$100.00	\$21,200.00	\$99.00	\$20,988.00	\$110.00	\$23,320.00
3	6 x 6 tapping valve & sleeve	1	EA	\$4,000.00	\$4,000.00	\$3,425.00	\$3,425.00	\$2,100.00	\$2,100.00	\$3,100.00	\$3,100.00	\$4,000.00	\$4,000.00
4	Remove hydrant	5	EA	\$300.00	\$1,500.00	\$330.00	\$1,650.00	\$700.00	\$3,500.00	\$1.00	\$5.00	\$1,000.00	\$5,000.00
5	6" valve & hydrant assembly	4	EA	\$4,500.00	\$18,000.00	\$4,175.00	\$16,700.00	\$5,090.00	\$20,360.00	\$4,550.00	\$18,200.00	\$4,500.00	\$18,000.00
6	Hydrant assembly	1	EA	\$3,700.00	\$3,700.00	\$3,050.00	\$3,050.00	\$4,070.00	\$4,070.00	\$3,450.00	\$3,450.00	\$3,500.00	\$3,500.00
7	Hydrant extension	3	EA	\$800.00	\$2,400.00	\$1,575.00	\$4,725.00	\$1,325.00	\$3,975.00	\$1,400.00	\$4,200.00	\$2,000.00	\$6,000.00
8	Remove & replace valve box	8	EA	\$750.00	\$6,000.00	\$620.00	\$4,960.00	\$400.00	\$3,200.00	\$800.00	\$6,400.00	\$750.00	\$6,000.00
9	Valve box extension	21	EA	\$550.00	\$11,550.00	\$420.00	\$8,820.00	\$200.00	\$4,200.00	\$450.00	\$9,450.00	\$400.00	\$8,400.00
10	Adjust valve box	4	EA	\$300.00	\$1,200.00	\$220.00	\$880.00	\$75.00	\$300.00	\$400.00	\$1,600.00	\$350.00	\$1,400.00
11	10" valve excavation	1	EA	\$850.00	\$850.00	\$3,325.00	\$3,325.00	\$4,400.00	\$4,400.00	\$1,550.00	\$1,550.00	\$1,500.00	\$1,500.00
12	Construction survey	1	LS	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,500.00	\$3,500.00	\$2,800.00	\$2,800.00	\$3,675.00	\$3,675.00
					<b>\$73,220.00</b>		<b>\$69,587.00</b>		<b>\$71,305.00</b>		<b>\$72,743.00</b>		<b>\$89,295.00</b>

February 22, 2012

Mr. John Lutz  
City Engineer  
City of Muscatine Public Works Facility  
1459 Washington Street  
Muscatine, IA 52761

Subject: 2012 Cedar Street Roadway Improvements, Utility Relocation Phase

Dear Mr. Lutz:

Muscatine Power & Water reviewed the preliminary plans for roadway improvements to Cedar Street, between Parham and Houser Streets ("Cedar Street Project"). An existing water main, with considerable remaining useful life, lies in the planned construction area. Our review of the plans, indicate that the Cedar Street Project will create a new profile detrimentally affecting the water main in some areas. The new profile of the road, as currently proposed by the City, would leave the water main in some areas too shallow and more prone to being affected by ground heave during freeze/thaw cycles. The Cedar Street Project will require replacing a portion of the existing 10 inch water main with 1900 feet (from approximately 1818 Cedar Street to 2107 Cedar Street with an extension of 252 feet on Logan Street.) of new 10-inch ductile iron water main at the new depth. The new water main will need to be relocated to a bury depth of at least five feet of cover and no deeper than eight feet to accommodate future maintenance needs. MP&W understands that the water main relocation work will be conducted by the City's contractor according to the City's plans, with MP&W approval. In order to facilitate the Cedar Street Project, MP&W agrees to the contributions toward the relocation of the affected water main as specified in this letter.

- 1. Plans and Permits.** MP&W will design the piping, valves, blocking, service connections, material specifications, and such related to the water main, and the City will prepare the construction drawings and final specifications. MP&W will submit the City's constructions drawings and final plans to Iowa Department of Natural Resources (IDNR) to request the required permits related to the relocation of the water main. This process requires submission of final plans and can take months before IDNR approval is issued. The City must provide MP&W with final plans for the Cedar Street Project and timely updates if plans change. Significant changes may require re-review by IDNR. Changes to the Cedar Street Project plans could affect IDNR issued permits, add to the cost of the work, and cause delays.
- 2. Contract Review.** MP&W will have opportunity to review, provide input, and approve the City's contract for the water main relocation work prior to release for bidding. Specifications for the water main relocation will meet MP&W's standards for construction and materials.

3. **Engineering and Inspection Services.** MP&W will provide, at no cost to the City, engineering and inspection services during the water main relocation work to ensure construction and materials meet all the pertinent specifications and permit requirements.
  
4. **Direct Financial Contribution.** Upon completion of the work and passing final inspection by MP&W, MP&W agrees to pay 50% of the estimated \$280,000 construction cost for the water main relocation work, including services, restoration, and the rights for salvage. The total amount of MP&W's portion shall not exceed \$140,000 for water main contract items. MP&W will only pay this contribution for work actually performed and expenses actually incurred by the City's contractor. Any discounts provided by a contractor or vendor will also apply to the MP&W contribution. Any change orders or modifications by the City to the Cedar Street project that affect the water main relocation work and causes MP&W's portion of the cost to exceed \$140,000, will be considered the City's responsibility.

We realize the City is faced with capital infrastructure needs and know that we can continue to work together to complete these projects as they arise for the benefit of the citizens of the City of Muscatine.

If you would like further explanation or you have any questions, please contact me at (563) 262-3360.

Regards,

Kris J Hatfield  
Manager of Water and Utility Services  
Muscatine Power and Water

cc: Sal LoBianco  
Brandy Olson  
Tim Reed  
Ahren Gross

Agreed to by the City of Muscatine:

Signed: \_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

CONTROL POINTS				
Point #	Elevation	Northing	Easting	Description
1	608.70	531227.68	2310788.73	RN SPKCE
2	608.75	531335.92	2310522.67	RN SPKCE
3	611.77	531510.82	2310338.67	RN SPKCE
4	612.30	531569.09	2310113.52	RN SPKCE
5	612.19	531774.70	2309883.37	RN SPKCE
6	614.98	531873.03	2309596.82	RN SPKCE
7	624.12	532028.38	2309353.82	RN SPKCE
8	633.01	532101.17	2309116.29	RN SPKCE
9	638.03	532243.97	2308899.88	RN SPKCE
10	638.09	532315.35	2308800.29	RN SPKCE
11	640.89	532423.41	2308339.20	RN SPKCE
12	650.78	532406.19	2308017.90	RN SPKCE
13	668.01	532485.17	2307741.39	RN SPKCE
14	681.82	532445.42	2307433.81	RN SPKCE
15	689.64	532476.21	2307173.98	RN SPKCE
16	692.83	532432.28	2306910.22	RN SPKCE
17	697.81	532469.84	2306806.05	RN SPKCE
18	707.14	532428.87	2306305.20	RN SPKCE
19	712.03	532484.13	2305989.70	GPS MON
20	712.18	532421.17	2305702.93	RN SPKCE



## CITY OF MUSCATINE, IOWA CEDAR STREET WATER ADJUSTMENTS 2014

INDEX OF SHEETS	
NO.	DESCRIPTION
1	COVER
2	GENERAL NOTES & BID ITEMS
3	LOCATION MAP
4	WATER PLAN
5	WATER PLAN
6	WATER PLAN
7	WATER PLAN
8	WATER PLAN
9	WATER PLAN
10	WATER PLAN

### PERMIT INFORMATION

The project has been categorically excluded from the need for an individual environmental action by Federal Highway Administration (FHWA). The review was based on the information provided in the project concept statement dated 02/04/2009. The effective date of the environmental concurrence is 08/11/2009. This project was also approved by the USACE on 11/16/2010 for a nationwide permit #14.

This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.

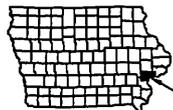
### LEGEND

- ..... GRADING LIMITS
- CENTERLINE
- ROW/PROPERTY/EASEMENT LINE

### UTILITY NOTE

VISIBLE UTILITIES SUCH AS POWER POLES, PEDESTALS, MANHOLES AND LIGHT POLES ARE SHOWN ON THE PLANS. STORM SEWER, SANITARY SEWER, GAS, TELEPHONE, FIBER OPTIC, WATER, COMMUNICATIONS AND ELECTRIC ARE SHOWN WHERE LOCATED THROUGH IOWA 1-CALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES.

**IOWA 1-CALL# 1-800-292-8989**



CITY OF MUSCATINE  
MUSCATINE COUNTY  
IOWA

### UTILITY CONTACTS

MUSCATINE POWER & WATER  
WATER - KRIS HATFIELD (563)282-3360  
ELECTRIC - ANDY KURRIGER (563)282-3391  
COMMUNICATIONS TOM LEWIS (563)282-3206

ALLIANT ENERGY  
GAS - ANN KRIESS (563)288-3322

CENTURY LINK  
TELEPHONE - MATT KEARNEY (319)399-7800

Plans Approved by Muscatine City Council on Feb 6th, 2014.

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.

Jonathan H. Lutz  
Date \_\_\_\_\_ Reg. No. 15184  
My license renewal date is December 31, 2014  
Pages or sheets covered by this seal: 1-14



**ESTIMATE REFERENCE INFORMATION**

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QTY	UNIT
WATER DISTRIBUTION			
1	MOBILIZATION	1	LS
2	8" DIWM CLASS 52	212	LF
3	6" X 6" TAPPING VALVE & SLEEVE	1	EA
4	REMOVE HYDRANT	5	EA
5	6" VALVE & HYDRANT ASSEMBLY	4	EA
6	HYDRANT ASSEMBLY	1	EA
7	HYDRANT EXTENSION	3	EA
8	REMOVE & REPLACE VALVE BOX	8	EA
9	VALVE BOX EXTENSION	21	EA
10	ADJUST VALVE BOX	4	EA
11	10" VALVE EXCAVATION	1	EA
12	CONSTRUCTION SURVEY	1	LS

1. MOBILIZATION - Refer to IDOT Standard Specification 2533.
2. 8" DIWM CLASS 52 - Furnish and install water main with poly wrap. Includes double tracer wire and all bends, fittings and thrust blocks. Includes compacted mansand backfill. See sheet 10.
3. 6" x 6" TAPPING VALVE & SLEEVE - Furnish and install on Logan. Valve box is a separate item V28. Coordinate with MPW. See sheet 10.
4. REMOVE HYDRANT - Close valve & remove hydrant. Includes valve removal for valve and hydrant assembly locations. Confirm adequate restraint during removal.
5. 6" VALVE & HYDRANT ASSEMBLY - After valve and hydrant has been removed, furnish and install hydrant, valve, blocking, drain stone, fittings, and 6" pipe as necessary. Adjust hydrant to face proper direction and at bury line elevation.
6. HYDRANT ASSEMBLY - After valve is closed and hydrant has been removed, furnish and install hydrant, blocking, drain stone, fittings, and 6" pipe as necessary. Adjust hydrant to face proper direction and at bury line elevation.
7. HYDRANT EXTENSION - Confirm hydrant style, type, and length of extension required. Furnish and install extension.
8. REMOVE & REPLACE VALVE BOX - Remove existing valve box and replace with new valve box to elevation shown on table 2.
9. VALVE BOX EXTENSION - Remove existing valve box top section, add new riser and top section to elevation shown on table 2.
10. ADJUST VALVE BOX - Adjust valve box top section to elevation shown on table 2. No new materials required.
11. 10" VALVE EXCAVATION - Others will furnish and install 10" team insertion valve as shown on sheet 10 location V28. Contractor shall provide excavation, shoring, blocking and backfill. Valve box is a separate item.
12. CONSTRUCTION SURVEY - Surveyor will be provided AutoCAD Civil 3D drawing or lesser version for use in preparing stakeout locations. Includes 1 set of the following stakes:  
Hydrant offset stakes with cur/kill to bury line. See table 1 sheet 3.  
Valve box stakes with cur/kill to new ground. See table 2 sheet 3.  
Water main stakes with cur/kill to top of pipe. See sheet 10 for water main connection on Logan.

**GENERAL NOTES**

1. LOCATE ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN TRAFFIC ON CEDAR STREET, OTHER SIDE STREETS, AND DRIVES.
3. PROVIDE SAFETY FENCE AROUND WORK AREAS AS REQUIRED BY CODE AND TO PROTECT THE PUBLIC.

**WATER MAIN**

1. LOCATE ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
2. 5' MINIMUM BURY UNLESS OTHERWISE NOTED ON THE PLANS.
3. SPECIFICATIONS ARE "STANDARD SPECIFICATIONS FOR WATER SUPPLY DISTRIBUTION SYSTEM IMPROVEMENTS, BOARD OF WATER AND LIGHT TRUSTEES OF THE CITY OF MUSCATINE, IOWA, 2008.
4. HYDRANTS AND HYDRANT VALVES TO BE AS CLOSE TO MAIN AS POSSIBLE.
5. PROVIDE #12 COPPER, BLUE POLYETHYLENE JACKETED DIRECT BURIAL TRACER WIRE. PLACE ON TOP OF WATER MAIN PRIOR TO BACKFILL. PROVIDE CAST IRON 2-1/2" DIAMETER ADJUSTABLE SERVICE BOX FOR SURFACE ACCESS TO WIRE AT ALL LINE VALVE LOCATIONS OR AS SHOWN ON THE PLANS. INSTALL SERVICE BOXES WITHIN 18" OF LINE VALVE BOXES. CAST IRON ADJUSTABLE SERVICE BOXES SHALL BE TYLER PIPE 6500 SCREW TYPE WITH STANDARD BOLTED LID MARKED "WATER".

6. PROVIDE MINIMUM 6" SAND OR SOIL CUSHION BETWEEN CROSSING MAINS OR OTHER UTILITIES.
7. CONTRACTOR TO UNCOVER AND VERIFY CONNECTION LOCATION CONDITIONS AT START OF PROJECT SO PLANNED ADJUSTMENTS CAN BE MADE WHERE NECESSARY AHEAD OF THE ACTUAL PIPE LAYING AND CONNECTION WORK.
8. MPW WILL PROVIDE INSPECTOR AT NO FEE TO CONTRACTOR.
9. CONTRACTOR SHALL COORDINATE WITH MPW TO OPERATE ANY VALVES AND HYDRANTS. MPW SHALL PERFORM ALL FLUSHING. MPW SHALL PERFORM PRESSURE TESTING. CONTRACTOR SHALL PLACE DISINFECTANT TABLETS IN MAIN. TABLETS SHALL BE 65% #1 PERMATOX.
10. PLACE 1" BALLAST AROUND DRIPS ON HYDRANTS. SEE SPECIFICATIONS.
11. CONTRACTOR SHALL POTHOLE TO DETERMINE EXISTING HYDRANT LINE CONFIGURATION AND ELEVATION PRIOR TO ORDERING MATERIAL. CONTRACTOR SHALL INVESTIGATE VALVE BOX CONFIGURATION AND ELEVATION PRIOR TO ORDERING MATERIALS. INSTALL HYDRANTS TO BURY LINE ELEV ± 0.25' FOR EXTENSIONS AND BURY LINE ELEV ± 0.1' FOR NEW INSTALLATIONS.
12. CONTRACTOR SHALL SPLICE AND EXTEND LOCATE WIRE ON ALL LOCATIONS AS NECESSARY FOR FUNCTIONAL OPERATION. USE GEL FILLED KUTS.
13. BACKFILL ALL EXCAVATIONS WITHIN 5' OF PAVING, DRIVEWAYS, SIDEWALK OR TRAILS WITH MANSAND.
14. CONTRACTOR SHALL DELIVER ALL SALVAGED MATERIALS TO MPW YARD.

**REFERENCED SPECIFICATIONS**

IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SERIES 2009 SHALL BE USED ON THIS PROJECT UNLESS OTHERWISE EXCEPTED IN THE PLANS OR SPECIFICATIONS. ANY REFERENCE TO DETAILED SPECIFICATIONS IN OTHER PARTS OF THIS DOCUMENT OR THE SPECIFICATIONS REFERS TO THE ABOVE SPECIFICATIONS OR TO THIS SECTION. WATER ITEM SPECIFICATIONS SHALL BE "STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEM IMPROVEMENTS, BOARD OF WATER, ELECTRIC, AND COMMUNICATIONS TRUSTEES OF THE CITY OF MUSCATINE, IOWA, 2008"

EXCEPTIONS TO THE IDOT SPECIFICATIONS ARE:  
"Instructions to Bidders", "Special Conditions" and "Supplemental Specifications" listed in this document, or the specifications shall take precedence over the IDOT specifications.

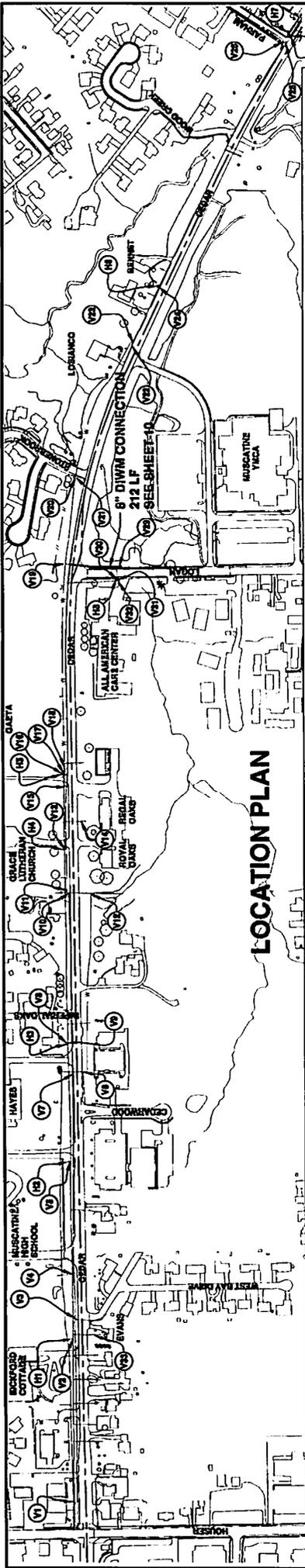
**CONSTRUCTION SCHEDULE**

THE CONTRACTOR SHALL COMPLETE WORK ON THIS CONTRACT IN A MANNER THAT WILL NOT DELAY OR HINDER CONSTRUCTION PROGRESS ON THE "CEDAR STREET RECONSTRUCTION PROJECT" WHICH INVOLVES GRADING, PAVING AND OTHER RELATED WORK. HYDRANT AND VALVE WORK SHALL NOT BE PERFORMED AHEAD OF THE GENERAL RECONSTRUCTION WORK WHERE ADJUSTMENTS WILL LEAVE A HAZARD OR AFFECT TRAFFIC. MINOR WORK THAT WILL LEAVE FUNCTIONAL HYDRANTS AND VALVE BOXES AND WILL NOT AFFECT TRAFFIC MAY BE PERFORMED AHEAD OF CEDAR RECONSTRUCTION WORK. IN SUCH CASE, APPROPRIATE TRAFFIC CONTROL SIGNAGE IS INCIDENTAL.

CEDAR STREET RECONSTRUCTION WORK HAS A LATE START DATE OF APRIL 7, 2014. ALLOWABLE WORKING DAYS WOULD REQUIRE COMPLETION APPROXIMATELY MAY 2015. HOWEVER, IT IS ANTICIPATED THAT THE CONTRACTOR WILL PERFORM WORK AT THE CEDAR PARHAM INTERSECTION FROM APRIL TO MAY 2014, AT THE HIGH SCHOOL AREA FROM JUNE TO AUGUST 2014, AND COMPLETE THE REMAINING WORK BY MID-NOVEMBER 2014.

WORK AT BOTH PARHAM AND LOGAN MUST BE PERFORMED IMMEDIATELY FOLLOWING PAVEMENT REMOVAL WHEN THE CEDAR RECONSTRUCTION CONTRACTOR HAS THE STREET CLOSED TO TRAFFIC.

THE CITY CANNOT DICTATE THE CEDAR RECONSTRUCTION CONTRACTOR SCHEDULE OTHER THAN WORK AT THE HIGH SCHOOL AREA MUST BE COMPLETED DURING THE SCHOOL SUMMER BREAK OF 2014 AND THE CONTRACTOR HAS A LIMITED NUMBER OF WORKING DAYS TO COMPLETE THE PROJECT.



### LOCATION PLAN

TABLE 1 FIRE HYDRANT MODIFICATIONS

No.	MPW ID	STYLE	Station	Offset	Existing Top of Ribber	New Ground	Raise Height	Location	Bid Item	Comment
H1	HRKA0401	CLW	108+12	-42	699.28	703.90	4.32	East of Bickford Cottage	Hydrant Extension	Use 2'-2" extensions and 1'-1" extension
H2	HRKA1A02	MUELLER CENTURIAN 200	115+51	-43	709.21	712.10	2.89	West of Hoyes Entrance	Hydrant Extension	Use 2.5" Extension
H3	HRKA2A02	MUELLER CENTURIAN	120+39	-41	710.63	713.07	2.44	East of Hoyes Exit	Hydrant Extension	Use 2.5" Extension
H4	HRKA3A02	DRESSER	128+42	-42	692.74	692.74	0.00	West of Grace Lutheran Church Drive	6" Valve & Hydrant Assembly	Remove and replace with new full height hydrant.
H5	HRKA4A02	LUDLOW	131+51	-42	667.37	668.91	1.54	East of Goets Drive	6" Valve & Hydrant Assembly	Remove and replace with new full height hydrant.
H6	HRK7B001	MUELLER IMPROVED	152+23	-31	629.85	630.28	1.41	West of Bennett Drive	6" Valve & Hydrant Assembly	Remove and replace with new full height hydrant.
H7	HRK9B001	MUELLER CENTURIAN 200	153+95	-28	611.38	612.67	1.09	Cedar & Perham	6" Valve & Hydrant Assembly	Remove and replace with new full height hydrant.
H8	HRK9B001	DARLING	202+25	-28	643.02	646.21	3.19	Logan at All American Care Center	Hydrant Assembly	Remove and replace with new full height hydrant.

TABLE 2 VALVE BOX MODIFICATIONS

No.	MPW ID	STYLE	Station	Offset	Existing Top of Ribber	New Ground	Adjust Height	Location	Bid Item	Comment
V1	N/A	CURB STOP	108+34	-52	705.35	708.14	2.79	East of Houder	Valve box extension	Remove curb box top and install top section of valve box with cover.
V2	ARKA0401	6" TAPPING VALVE	108+12	-40	699.44	703.65	4.41	East of Bickford Cottage	Valve box extension	On hydrant H1, extend to final grade.
V3	VRKA0408	24" TAPPING VALVE	108+91	-27	700.29	702.83	2.54	24" line valve across from West Boy Dr	Valve box extension	Extend to final grade.
V4	VRKA1A01	6" TAPPING VALVE	110+89	-37	699.94	703.17	3.23	West of High School entrance	Valve box extension	Service line to high school. Extend to final grade.
V5	ARKA1A02	6" HYDRANT VALVE	115+50	-37	709.15	711.80	2.65	West of Hoyes Entrance	Valve box extension	On hydrant H2, extend to final grade.
V6	VRKA2B01	6" VALVE	118+23	28	712.50	713.90	1.40	East of Cedarwood	Adjust valve box	Extend to final grade.
V7	VRKA2A04	24" VALVE	118+14	-17	713.08	713.51	0.53	West of Hoyes exit	Valve box extension	On hydrant H3, extend to final grade.
V8	VRKA2A02	6" HYDRANT VALVE	120+44	-40	710.57	712.87	2.30	East of Hoyes exit	Valve box extension	Extend to final grade.
V9	VRKA2A02	6" LINE VALVE	120+44	-38	710.57	712.87	2.30	East of Hoyes exit	Remove & replace valve box	Adjust top section to final grade.
V10	VRKA3A06	24" TAPPING VALVE	128+60	-20	695.20	694.01	-1.19	SW of Grace Luth Church on 24"	Valve box extension	Remove & replace materials to final grade.
V11	VRKA3A04	10" LINE VALVE	128+72	-28	693.19	694.60	1.41	SW of Grace Luth Church on 10"	Valve box extension	Adjust top section to final grade.
V12	VRKA3A05	12" TAPPING VALVE	128+57	71	691.21	691.50	0.99	NW of Royal Oaks Apts on 12"	Adjust valve box	On hydrant H4, replace materials to final grade.
V13	ARKA3A02	6" HYDRANT VALVE	128+42	-37	690.83	692.82	1.79	West of Grace Lutheran Church drive	Valve box extension	Remove curb box top and install top section of valve box with cover.
V14	N/A	CURB STOP	129+58	39	688.04	687.39	-1.66	in front of Regal Oaks	Valve box extension	Extend to final grade.
V15	VRKA4A02	10" TAPPING VALVE	131+02	-24	688.37	688.41	1.04	West of Goets Drive	Remove & replace valve box	On hydrant H5, replace materials to final grade.
V16	ARKA4A02	6" HYDRANT VALVE	131+52	-39	687.82	688.04	1.22	East of Goets Drive	Valve box extension	Extend to final grade.
V17	VRKA4A01	6" LINE VALVE	131+55	-35	687.42	688.72	1.30	East of Goets Drive on 6"	Valve box extension	Extend to final grade.
V18	VRKA5A03	6" TAPPING VALVE	131+80	-32	684.16	688.05	3.89	East of Goets Drive on 6"	Valve box extension	Extend to final grade.
V19	VRK6B001	6" TAPPING VALVE	140+17	-29	648.01	651.15	3.14	Logan north 6" Topping valve to 10"	Valve box extension	Extend to final grade.
V20	VRK6B003	6" HYDRANT VALVE	143+85	-55	635.92	638.78	1.26	West of Stonebrook Drive on Hyd Valve	Valve box extension	Extend to final grade.
V21	VRK6B003	6" TAPPING VALVE	143+70	-55	635.72	638.72	1.00	West of Stonebrook Drive on new 6" tie	Adjust valve box	Adjust top section to final grade.
V22	VRK6B001	10" LINE VALVE	149+60	-22	636.79	637.42	0.63	East the valve at Labiano near plug	Adjust valve box	Adjust top section to final grade.
V23	VRK6B002	10" TAPPING VALVE	149+73	-24	636.17	637.15	0.98	New tapping valve at Labiano	Remove & replace valve box	Extend to final grade.
V24	VRK6B001	6" HYDRANT VALVE	152+23	-24	629.47	630.45	0.98	West of Bennett's drive	Valve box extension	Extend to final grade.
V25	VRK6B001	10" LINE VALVE	153+57	-8	611.53	613.09	1.56	Perham the valve	Valve box extension	Extend to final grade.
V26	VRK6B002	10" LINE VALVE	153+59	-35	611.74	612.73	0.99	Perham the valve	Remove & replace valve box	On hydrant H7, replace materials to final grade.
V27	ARK9B001	6" HYDRANT VALVE	153+95	-16	611.53	612.40	0.87	East of Perham	Remove & replace valve box	On new 10" tie valve, install new valve box.
V28	NEW	10" LINE VALVE	153+98	-16	611.53	612.40	0.87	East of Perham	Remove & replace valve box	On hydrant H8, replace materials to final grade.
V29	NEW	6" TAPPING VALVE	202+12	22	641.65	645.57	3.72	Logan across from All American Care	Remove & replace valve box	Extend to final grade.
V30	ARK9B001	6" HYDRANT VALVE	202+23	-35	643.15	645.76	2.60	Logan All American Care Driveway	Remove & replace valve box	On new 10" tie valve, install new valve box.
V31	VRK9B002	6" SERVICE VALVE	202+21	-30	643.74	645.76	2.04	Logan All American Care Driveway	Remove & replace valve box	On hydrant H9, replace materials to final grade.
V32	VRK9B003	6" SERVICE VALVE	202+16	-34	643.08	645.69	1.81	Logan All American Care Driveway	Valve box extension	Extend to final grade.
V33	N/A	CURB STOP	108+39	46	688.77	700.30	1.53	West of Laura Elena Driveway	Valve box extension	All American Care service box, extend to final grade. Remove curb box top and install top section of valve box with cover.

