CITY OF ONALASKA MEETING NOTICE

COMMITTEE/BOARD: **Board of Public Works**
DATE OF MEETING: March 3, 2015 (Tuesday)
PLACE OF MEETING: City Hall – 415 Main Street (Common Council Chambers)
TIME OF MEETING: 6:30 P.M.

PURPOSE OF MEETING

1. Call to Order and roll call.
2. Approval of minutes from the previous meeting.
3. Public Input: (limited to 3 minutes/individual)

Consideration and possible action on the following items:

4. Review and consideration of 3rd Avenue South sanitary sewer installation agreement with the Village of Holmen
5. Review and consideration of boiler repair/replacement at Public Works Facility
6. Review and consideration of Memorandum of Agreement with Wisconsin Department of Transportation, Federal Highway Administration and the Wisconsin State Historic Preservation Office regarding State Trunk Highway 35 project – Poplar Street to US Highway 53 (project ID 7190-06-00)
7. Review and consideration of archeological services for 2015 Utility project
8. Review and consideration of 2015 Stump Grinding bid
9. Review and consideration of 2015 Utility Project bid

PLEASE TAKE FURTHER NOTICE that members of the Common Council of the City of Onalaska who do not serve on the Board may attend this meeting to gather information about a subject over which they have decision making responsibility.

Therefore, further notice is hereby given that the above meeting may constitute a meeting of the Common Council and is hereby noticed as such, even though it is not contemplated that the Common Council will take any formal action at this meeting.

Notices Mailed To:

* Mayor Joe Chilsen
Ald. Erik Sjolander
Ald. Jim Olson
* Ald. Jim Bialecki --Vice Chair
*Ald Jack Pogreba - Chair
**Ald. Harvey Bertrand
Ald. Bob Muth
City Attorney Dept Heads
La Crosse Tribune Charter Com.
Onalaska Holmen Courier Life
WIZM WKTY WLXR WKBH
WLSU WKBT WXOW

*Board Members ** Alternate Member

*Jarrod Holter, City Engineer
*Fred Buehler, Financial Services Director/Treasurer

Onalaska Public Library

Date Notices Mailed and Posted: 2-26-15

In compliance with the Americans with Disabilities Act of 1990, the City of Onalaska will provide reasonable accommodations to qualified individuals with a disability to ensure equal access to public meetings provided notification is given to the City Clerk within seventy-two (72) hours prior to the public meeting and that the requested accommodation does not create an undue hardship for the City.

10. Review and consideration of 2015 Spring Tree Planting bid

11. Review and consideration of 2015 Miscellaneous Concrete Project bid

12. Review of Coulee Transportation Study

13. Review and consideration of purchasing cemetery mower

14. **Resolution 22-2015:** Request for waiver from Trans 75 requirements for pedestrian accommodation for the County Trunk Highway SN Project

15. Review and consideration for negotiations regarding maintaining authority of County Trunk Highway S – Redwood Street to County Trunk Highway SN from La Crosse County

16. Review and consideration of purchasing handheld global navigation satellite system unit for capture of infrastructure locations

17. Review and consideration of Public Works Department annual report

18. Review and consideration of compact track loader bid

19. Pay Estimates: Strand Associates, Short Elliot Hendrickson Inc., MSA Professional Services,

Adjournment

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #4

Project/Item Name: 2015 Utility Project

Location: 3rd Avenue South

Requested Action: Approval of 3rd Avenue South sanitary sewer upgrades agreement with the Village of Holmen

Staff Report/Description: City staff has been working with the Village of Holmen on future connection of sanitary sewer to the City of Onalaska system. With this connection Village of Holmen sanitary sewer would be transported to the City of La Crosse Treatment plant via the City of Onalaska. Negotiations have not been completed at this time but upgrades in the 3rd avenue sanitary sewer as part of the 2015 Utility Project will facilitate future connection. Agreement outlines the Village of Holmen to pay costs of upgrades as part of the 2015 Utility Project.

Attachments: Proposed agreement and cost estimate

CONTRACT FOR SANITARY SEWER CONNECTION

THIS AGREEMENT entered into this _____ day of _____, 2015 by and between the City of Onalaska, a municipal corporation, located in La Crosse County, Wisconsin, and herein known as "Onalaska" and the Village of Holmen, a municipal corporation, located within La Crosse County, Wisconsin herein known as "Holmen".

WHEREAS, the Village of Holmen and the City of Onalaska are currently negotiating an agreement for the transport of the Village of Holmen's sanitary sewer through the City of Onalaska to the City of La Crosse's treatment plant; and

WHEREAS, prior to the Village of Holmen transporting sanitary sewer through the City of Onalaska, certain upgrades shall be required to the connection point between the two municipalities.

NOW, THEREFORE, IT IS HEREBY COVENANTED AND AGREED between the parties hereto as follows:

1. Utility Upgrade Installation. Attached hereto as Exhibit A, is the estimated cost for the upgrade to the tie-in for the 3rd Avenue Sanitary Sewer from Main Street to Irvin Street ("Sewer Tie-In"). Onalaska's initial estimated cost without the tie-in to Holmen is $10,725. The additional cost for the upgrade which will allow for the tie-in to Holmen is $62,742.00. This project shall be bid in compliance with Onalaska bidding policies as well as local and state laws. Holmen shall reimburse Onalaska for the cost differential between the additional costs for the Sewer Tie-In to Holmen and Onalaska's cost without it. For example, under the original cost estimates Holmen would be liable to Onalaska as stated in Exhibit A for $52,016.00. The amounts stated in Exhibit A may be subject to change based upon the lowest approved bid by the City of Onalaska. Onalaska shall invoice Holmen upon receipt of the invoice from the contractor for the services described in Exhibit A and Holmen shall pay Onalaska within thirty (30) days of being invoiced. Overdue accounts shall incur an interest charge of 2% per month after thirty (30) days for any outstanding payment. If Holmen fails to pay Onalaska after thirty (30) calendar days and two (2) written reminders, Holmen shall be in default of this Agreement and shall be responsible to reimburse Onalaska for all expenses incurred prior to default and any applicable interest and other charges, including legal fees and attorney fees associated with collection of the overdue amount.

2. Utility Maintenance. Upon installation of the Sewer Tie-In Onalaska shall be responsible for the maintenance of the Sewer Tie-In.

3. Entire Agreement. The entire agreement of the parties is contained herein and this Agreement supersedes all prior written agreements and negotiations between the parties relating to the subject matter herein as well as any previous agreements presently in effect between the parties relating to the subject matter contained herein.

4. Amendments. Any alternations, amendments, deletions or waivers of the provisions of this Agreement shall be valid only when expressed in writing and duly signed by all parties.

5. Governing Law. This Agreement shall be governed by and interpreted in accordance with the laws of the State of Wisconsin and any action arising out of or related to this Agreement shall be venued in La Crosse County Circuit Court.

It is understood that the governing bodies of the parties have duly authorized the execution of this Contract.

IN WITNESS WHEREOF, the parties have caused this Contract to be executed by the Mayor and City Clerk of the City and the Chairman and Clerk for the Town.

CITY OF ONALASKA

_____
Joe Chilsen, Mayor

_____
Caroline Burmaster, City Clerk

VILLAGE OF HOLMEN

_____
Administrator

_____
Village Clerk

Approved as to content, form and execution, this _____ day of _____, 2015.

_____
Sean O'Flaherty

ADDITIONAL COSTS TO ACCOMMODATE FUTURE VILLAGE OF HOLMEN SANITARY SEWER FOR THE CITY OF ONALASKA
2015 UTILITY PROJECT (Unit Costs from apparent low bidder Haas Sons)
February 25, 2015

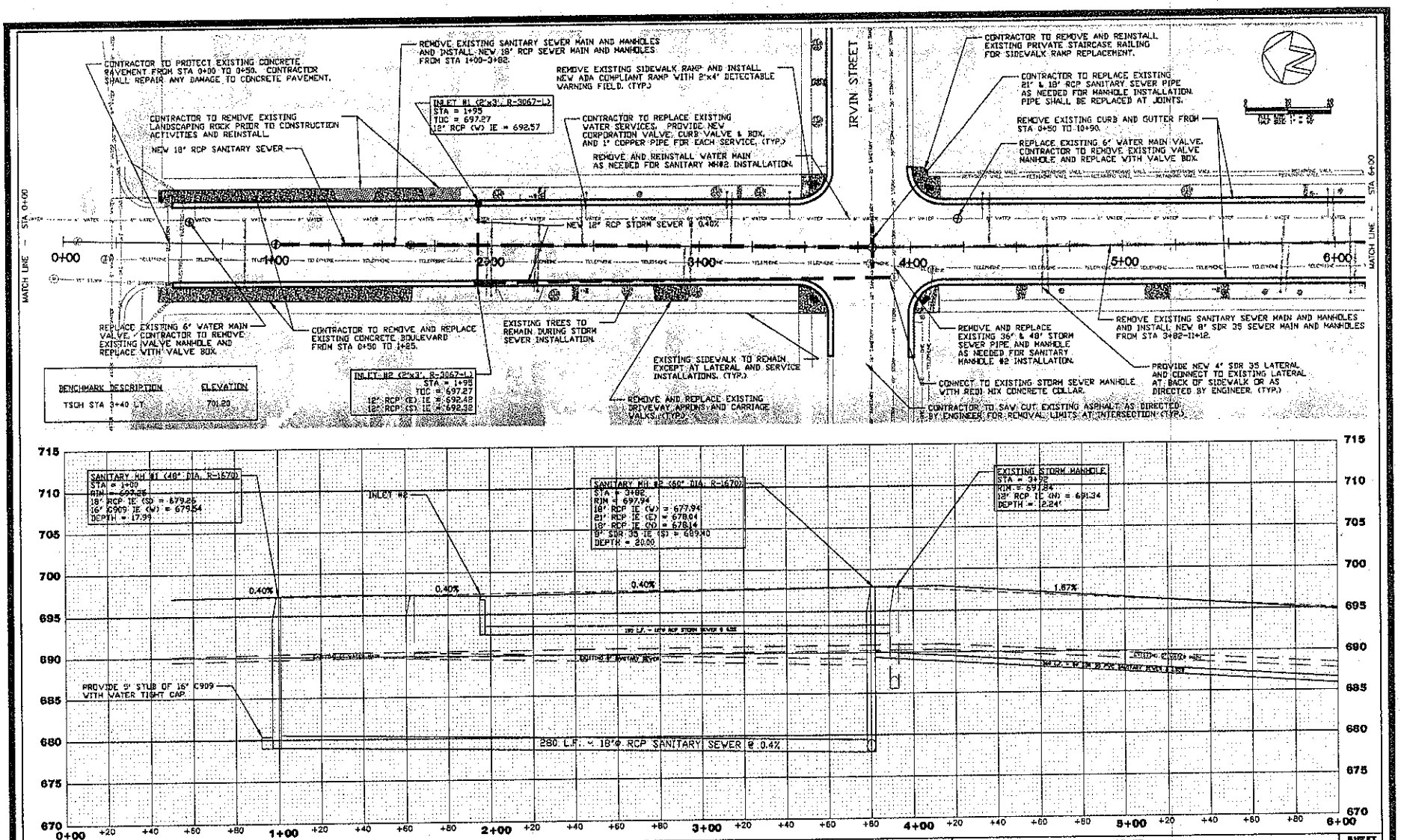
3RD AVENUE SANITARY SEWER - MAIN ST TO IRVIN ST (ONALASKA ONLY)

ITEM #	DESCRIPTION	UNIT	TOTAL UNITS	UNIT COST	TOTAL COST
1	8" SDR 35 PVC SANITARY SEWER	L.F.	218	$ 28.65	$ 6,245.70
2	48" DIA. SANITARY SEWER MANHOLE W/CASTING LESS THAN 15 FEET DEEP	EACH	1	$ 3,680.00	$ 3,680.00
3	CONNECT TO EXISTING SANITARY MANHOLE	EACH	1	$ 300.00	$ 300.00
4	8" X 4" SDR 35 PVC WYES	EACH	5	$ 100.00	$ 500.00
				TOTAL (ONALASKA ONLY) =	$ 10,725.70

3RD AVENUE SANITARY SEWER - MAIN ST TO IRVIN ST (ONALASKA & HOLMEN)

ITEM #	DESCRIPTION	UNIT	TOTAL UNITS	UNIT COST	TOTAL COST
1	18" RCP SEWER PIPE(CL V, WALL B)	L.F.	280	$ 81.00	$ 22,680.00
2	18" RCP SEWER PIPE (CL V, WALL B) (SAN MH #2)	L.F.	20	$ 81.00	$ 1,620.00
3	21" RCP SEWER PIPE (CL V, WALL B) (SAN MH #2)	L.F.	15	$ 92.00	$ 1,380.00
4	16" C909 SANITARY SEWER	L.F.	5	$ 68.50	$ 342.50
5	48" DIA. SANITARY SEWER MANHOLE W/CASTING MORE THAN 15 FEET DEEP	EACH	1	$ 4,310.00	$ 4,310.00
6	60" DIA. SANITARY SEWER MANHOLE W/CASTING MORE THAN 15 FEET DEEP	EACH	1	$ 15,100.00	$ 15,100.00
7	18"x4" FACTORY WYES FOR RCP SEWER PIPE	EACH	5	$ 150.00	$ 750.00
8	16" C909 SANITARY SEWER CAP	EACH	1	$ 290.00	$ 290.00
9	BYPASS PUMPING (SAN MH #2)	L.S.	1	$ 8,000.00	$ 8,000.00
10	6" DIP TEMPORARY CAP (SAN MH #2)	EACH	2	$ 175.00	$ 350.00
11	6" DIP WATER MAIN (SAN MH #2)	L.F.	80	$ 33.00	$ 2,640.00
12	36" CL III RCP STORM SEWER PIPE (SAN MH #2)	L.F.	30	$ 71.00	$ 2,130.00
13	48" CL III RCP STORM SEWER PIPE (SAN MH #2)	L.F.	15	$ 110.00	$ 1,650.00
14	REMOVE/REINSTALL EXISTING MANHOLE (SAN MH #2)	EACH	1	$ 1,500.00	$ 1,500.00
				TOTAL (ONALASKA & HOLMEN) =	$ 62,742.50

ADDITIONAL COST FOR FUTURE HOLMEN SANITARY SEWER = $ 52,016.80



REVISIONS	REV. BY	DRAWN	DESIGN	CHECKED
		KJS	KJS	CJH
		1/7/15	1/7/15	1/7/15

CITY OF ONALASKA
ENGINEERING DEPARTMENT
415 MAIN STREET, ONALASKA, WISCONSIN, 54650
TELEPHONE: (608) 781-9537, FAX: (608) 781-9506

2015 UTILITY PROJECT

PLAN AND PROFILE
3RD AVE SOUTH (STA 0+00 - STA 6+00)

SHEET 8 / 21

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #5

Project/Item Name: Public Works Facility boiler replacement

Location: Public Works Facility

Requested Action: Approval of boiler replacement

Staff Report/Description: Public Works Facility boiler number one was found to have a leak in the heat exchanger the second week of February. The boiler was installed with the initial construction in 2007. Four contractors were contacted to give prices on repairs/replacement. Upon receiving quotes it is staff recommendation to replace the existing boiler with a new high efficiency model. The cost would be split equally between the operating budgets of water, sanitary sewer and storm water utilities with the last portion from funds designated for Street Department equipment within the 2015 budget.

Attachments: Spreadsheet of possible actions and costs

City of Onalaska

Public Works Department - Boiler #1 Repair/Replacement Options

Proposal 1-Heat Exchanger
Scope of work
Remove and replace heat exchanger

Company	Heat Exchanger	Labor	Heat Ex + Labor
WHV	$10,066.00	$2,784.00	$12,850.00
Johnson Controls			$11,211.00
CRM			$9,060.00
Bernie J. Buchner			$13,910.00

Proposal 2-Heat Exchanger and Burner
Scope of work
Remove and replace heat exchanger
Replace Burner

Company	Heat Exchanger	Labor	Heat Ex + Labor	Burner	HeatEx+Burner+Labor
WHV	$10,066.00	$2,784.00	$12,850.00	$3,590.00	$16,440.00
Johnson Controls			$11,211.00	$3,683.00	$14,894.00
CRM			$9,060.00		$12,000.00
Bernie J. Buchner			$13,910.00	$2,965.00	$16,875.00

Proposal 3 Boiler-Thermal Solutions APX525
Scope of Work
Replace failed boiler

Company	Cost
WHV	$20,620.00
Johnson Controls	$19,477.00
Bernie J. Buchner	$25,463.00
CRM	$20,759.00

Staffs Recommendation

Proposal 4 Boiler- Other
Scope of work
Replace failed boiler

Company	Boiler Type	Cost	Adds	Total
WHV	Lochinvar Knight XL KBN-501	$18,510.00		$18,510.00
CRM	Thermal Solutions EVS-500	$22,079.00		$22,079.00
Bernie J. Buchner	Same as existing	$22,805.00	$982.00	$23,787.00

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #6

Project/Item Name: STH 35

Location: STH 35 – Poplar to USH 53

Requested Action: Approval of MOA

Staff Report/Description: Staff has been working with the Wisconsin DOT regarding the upcoming STH 35 project, scheduled for construction in 2016. Since the City of Onalaska will be installing water main as part of the project it is a participating member of the MOA regarding archeological work for the project. Costs for needed archeological work as part of the project will be covered by the Wisconsin DOT except for any areas disturbed in excess of four feet in depth for the water main construction.

Attachments: Draft Memorandum of Agreement

MEMORANDUM OF AGREEMENT
BETWEEN THE FEDERAL HIGHWAY ADMINISTRATION (FHWA)
AND THE WISCONSIN STATE HISTORIC PRESERVATION OFFICE (SHPO)
REGARDING ACCESS AND INTERSECTION IMPROVEMENTS POPLAR ST – USH 53
LA CROSSE COUNTY, WISCONSIN

Whereas the Federal Highway Administration (FHWA) in cooperation with the Wisconsin Department of Transportation (WisDOT) plans to reconstruct the existing two-lane facility with a new median to accommodate intersection access improvements with both left and right trun bays along with the construction of two roundabouts on STH 35 (between Poplar St. and USH 53) (Project ID 7190-06-00/WHS#: 06-0249/LC) in the City of Onalaska, Town of Onalaska, and Village of Holmen, La Crosse County, Wisconsin and has determined:

Whereas the FHWA & WisDOT in consultation with Interested Parties and the Wisconsin State Historic Preservation Office (SHPO), has defined the proposed undertaking's Area of Potential Effects (APE) as described in **attachment #1** in accordance with 36 CFR 800.16(d)

Whereas, the FHWA & WisDOT has determined that the undertaking may have an adverse effect on **[Firesign47LC359, Lowrider-47LC826, Wheel Rust-47LC388, Kloppenburg-47LC397 & Shoe Tree-47LC827]**, which are listed in or potentially eligible for listing in the National Register of Historic Places, and has consulted with Wisconsin State Historic Preservation Officer pursuant to 36 CFR Part 800, the regulations implementing Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108, formerly 16 U.S.C. § 470f); and

Whereas, the FHWA & WisDOT has consulted with [insert Indian tribe as appropriate] for which **Firesign47LC359, Lowrider-47LC826, Wheel Rust-47LC388, Kloppenburg-47LC397 & Shoe Tree-47LC827** [include sites as appropriate] have religious and cultural significance; and

Whereas, the FHWA & WisDOT has consulted with [insert names of other consulting parties i.e. DNR, USACE, town, city, etc.] regarding the effects of the undertaking on historic properties and has invited them to sign this MOA as a [invited/concurring] party; and;

Whereas the Federal Highway Administration (FHWA) will be providing funding for the project and the project will require a Department of the Army permit from the St. Paul District, U.S. Army Corps of Engineers (USACE). The Corps and the FHWA agree that the FHWA shall be the lead federal agency responsible for satisfaction of federal responsibilities pursuant to § 106, and

Whereas, in accordance with 36 CFR § 800.6(a)(1) FHWA has notified the Advisory Council on Historic Preservation (ACHP) of its adverse effect determination with specified documentation, and the ACHP has chosen [not to] participate in the consultation pursuant to 36 CFR § 800.6(a)(1)(iii); and

Whereas, the undertaking consists of data recovery *(systematic subsurface excavation, analysis curation and reporting of significant information)* at sites **Firesign47LC359, Lowrider-47LC826, Kloppenburg-47LC397 & Shoe Tree-47LC827**

Whereas, the Wisconsin SHPO has concurred with the January 2015 Data Recovery Plan titled: *"Phase III Mitigation/Data Recovery at Five Archaeological Sites for the Proposed*

Reconstruction of State Highway 35 between Poplar Street and U.S. Highway 53 in La Crosse County, Wisconsin" (**attachment #2**); and

Whereas the consulting parties of this MOA concur with the January 2015 Data Recovery Plan titled: *"Phase III Mitigation/Data Recovery at Five Archaeological Sites for the Proposed Reconstruction of State Highway 35 between Poplar Street and U.S. Highway 53 in La Crosse County, Wisconsin"* (**attachment #2**) and

Whereas the public has been given an opportunity to comment on the undertaking's effects pursuant to 36 CFR 800.6(a)(4) through public information meetings and notices regarding project impacts, and

Whereas, human burial discoveries will be treated in accordance with Wisconsin §. 157.70, and

Now, therefore the FHWA & WisDOT and the Wisconsin SHPO agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effect of the undertaking on historic properties.

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STIPULATIONS

The FHWA shall ensure that the following measures are carried out:

Mitigation of Effects to Archaeological Sites: 47LC359, 47LC826, 47LC388, 47LC397 & 47LC827

1. WisDOT shall ensure that the DRP at attachment #2 is executed in order to protect or obtain significant information from archaeological sites **47LC359, 47LC826, 47LC388, 47LC397 & 47LC827**.

2. Archaeological surveys are to be conducted for borrow, batch plants, waste sites, design refinements (including erosion), and staging areas to be used for this project. Results of these surveys will be provided to SHPO and the signatories of this MOA. If significant discoveries of non-burial related archaeological properties are discovered, Section 106 procedures pursuant to 36 CFR 800 will be followed or another area will be obtained for borrow, batch plants, waste sites and staging areas.

On Site Monitoring

1. The on-site project manager will notify the SHPO/THPO, WisDOT Environmental Process and Documents Section (EPDS), and interested Tribe(s) ten days prior to the start of construction for monitoring purposes.

2. A qualified archaeologist shall be present to monitor project-related ground-disturbing activities.

3. If requested, a tribal representative will be allowed to monitor ground-disturbing activities.

    a. To ensure human safety, this activity shall be coordinated with the on-site project manager.

4. Upon discovery of a human burial(s), the archaeologist will inform the on-site project manager to stop construction activities in the immediate area and to establish a 15-foot protective barrier around the discovery.

    Note: The archaeologist is responsible for defining the proper location for the temporary protective barrier. The protective barrier will remain in place until s.s. 157.70 authorization is received.

Inadvertent or Post Review Discoveries

Protective steps will be taken to safeguard archaeological site(s) and/or human remains after working hours. Measures will include one or more of the following: fencing, signage, temporary backfilling of area to conceal the location, and notification of local authorities to include the area in their patrol.

Burial Related

1. The on-site construction project manager shall immediately stop construction activities and protect the site area if any inadvertent burial related discoveries (human remains) are encountered. The treatment of burial related discoveries shall comply with provisions contained in Wisconsin s.s. 157.70.

    a) The on-site construction project manager will immediately notify EPDS and EPDS will notify FHWA, the SHPO, consulting Tribes, and interested consulting parties of these discovery(ies).

Non-burial Related

1. The on-site construction project manager shall immediately stop construction activities and protect the area of the discovery if any significant non-burial related discoveries are encountered.

    a. The on-site project manager will immediately notify WisDOT's EPDS and EPDS will notify FHWA, the SHPO, interested tribes, and signatories of this MOA.

    b. Through an expedited consultation pursuant to 36 CFR 800.13(b), FHWA & WisDOT will consult with the signatories of this MOA to determine an appropriate treatment to resolve project impacts. The area will remain protected until authorization is received to proceed.

Administrative stipulations:

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1. Contracts pertaining to construct access and intersection improvements on STH 35 (between Poplar St. and USH 53) (Project ID 7190-06-00/SHSW#: 06-0249/LC) in the City of Onalaska, La Crosse County, Wisconsin shall contain language describing the potential delays to the contractor due to potential discoveries (archaeological and or burial).

2. Interim reports are to be provided to the signatories of this MOA annually (January) until the final report is completed.

3. Interested Tribes will be offered an opportunity prior to the start of data recovery field investigations to meet with archaeologists to discuss culturally sensitive issues.

OTHER TERMS AND CONDITIONS

Public Interpretation

1. Upon completion of the field data recovery, including completion of interim report(s) FHWA & WisDOT shall provide a preliminary plan for pubic interpretation to the signatories of this MOA for review and comment.

Curation

1. Features/materials determined to be *On State, state sub-division, or privately owned land:* All records and materials will be curated in accordance with the Secretary of Interior Guidelines, 36 CFR 79, and in compliance with Wisconsin s.s. 44.40.

Reports

1. Interim report of findings will be submitted annually to the WisDOT, WI-SHPO, and interested Tribes, until completion of the data recovery, which consists of field and laboratory work.

2. Archaeological reports will be completed within two (2) years upon completion of the data recovery, which includes lab analysis. All reports will be in compliance with contemporary professional standards and with the *Department of Interior's Format Standards for Final Reports of Data Recovery Programs* (47 FR 5377-79). Precise locational data may be provided only in a separate appendix if it appears that its release could jeopardize the security of the archaeological site(s).

Professional Qualifications

1. All archaeological and historic preservation work conducted pursuant to this agreement is

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carried out by or under the supervision of a person or persons meeting at a minimum the Secretary of the Interior's Professional Qualifications Standards. These guidelines include field research, analysis, report preparation and curation.

MONITORING AND REPORTING

Each January following the execution of this MOA until it expires or is terminated, WisDOT or its agent shall provide all parties to this MOA a summary report detailing work undertaken pursuant to its terms. Report shall include any scheduling changes proposed, any problems encountered, and any disputes and objections received in FHWA & WisDOT's efforts to carry out the terms of this MOA.

ASI [Archaeological Site Inventory] - Update

1. Information resulting from the archaeological survey and data recovery shall be provided to the State Archaeologist in a form acceptable for inclusion in the WHS, Historic Preservation Division's database.

DISPUTE RESOLUTION

Should any signatory or concurring party to this MOA object at any time to any actions proposed or the manner in which the terms of this MOA are implemented, FHWA & WisDOT shall consult with such party to resolve the objection. If FHWA & WisDOT determines that such objection cannot be resolved, FHWA will:

A. Forward all documentation relevant to the dispute, including the FHWA/WisDOT's proposed resolution, to the ACHP. The ACHP shall provide FHWA with its advice on the resolution of the objection within thirty (30) days of receiving adequate documentation. Prior to reaching a final decision on the dispute, FHWA shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP, signatories and concurring parties, and provide them with a copy of the written response. FHWA & WisDOT will then proceed according to its final decision.

B. If the ACHP does not provide its advice regarding the dispute within the thirty (30) day time period, FHWA may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, FHWA shall prepare a written response that takes into account any timely comments regarding the dispute from the signatories and concurring parties to the MOA, and provide them and the ACHP with a copy of such written response.

C. FHWA & WisDOT's responsibility to carry out all other actions subject to the terms of this MOA that are not the subject of the dispute remain unchanged.

D. Disputes regarding human remains on *State, state sub-division, or privately owned lands* will be in accordance with Wisconsin § 157.70.

AMENDMENTS

This MOA may be amended when such an amendment is agreed to in writing by all signatories.

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The amendment will be effective on the date a copy signed by all of the signatories is filed with the ACHP.

TERMINATION

If any signatory to this MOA determines that its terms will not or cannot be carried out, that party shall immediately consult with the other signatories to attempt to develop an amendment per the **amendment** stipulation above. If within thirty (30) days (or another time period agreed to by all signatories) an amendment cannot be reached, any signatory may terminate the MOA upon written notification to the other signatories. Once the MOA is terminated, and prior to work continuing on the undertaking, FHWA & WisDOT shall either (a) execute an MOA pursuant to 36 CFR § 800.6 or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR § 800.7. FHWA & WisDOT shall notify the signatories as to the course of action it will pursue.

DURATION (SUNSET PROVISION)

This MOA will expire if its terms are not carried out within [xxx years] from the date of its execution. Prior to such time (FHWA & WisDOT) may consult with the other signatories to reconsider the terms of the MOA and amend it in accordance with Stipulation below.
Execution of this Memorandum of Agreement by FHWA & WisDOT and the Wisconsin SHPO and implementation of its terms evidence that FHWA has taken into account the effects of this undertaking (ID# 7190-06-00/SHSW# 06-0249/LC) on historic properties and afforded the ACHP an opportunity to comment.

IN WITNESS THEREOF, THE PARTIES HAVE EXECUTED THIS MEMORANDUM OF AGREEMENT AS OF THE LAST SIGNATURE DATE BELOW.

Signatories:

Federal Highway Administration

By:_____ Date:_____

Ian Chidister, Environmental Program Manager

Wisconsin State Historic Preservation Office

By:_____ Date:_____

Jim Draeger, State Historic Preservation Officer

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St. Paul District, US Army Corps of Engineers

By:_____ Date:_____

Tamara E. Cameron, Chief, Regulatory Branch

Invited Signatories:

Wisconsin Department of Transportation

By:_____ Date:_____

Rebecca Burkel, Director of Bureau of Technical Services

Wisconsin Department of Natural Resources

By:_____ Date:_____

Mark Dudzik, DNR Archaeologist

City XXXXX

By:_____ Date:_____

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Concurring Parties:

Ho-Chunk Nation

By:_____ Date:_____

William Quackenbush, Ho-Chunk Nation
Tribal Historic Preservation Officer

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STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #7

Project/Item Name: 2015 Utility Project

Location: 3rd Avenue South

Requested Action: Approval of archeological services

Staff Report/Description: Staff has been working with Mississippi Valley Archeological Center (MVAC) on obtaining proper permission for the upcoming 3rd Avenue South improvements. The project lies within a very archeologically sensitive area that requires archeologist to be present during any ground disturbing activities. The attached costs will be billed at an hourly rate and will only be used when needed for the observation of ground disturbing activities.

Attachments: Outline of services

Holter, Jarrod

From: Katherine Stevenson <kstevenson@uwlax.edu>
Sent: Wednesday, February 18, 2015 1:14 PM
To: Holter, Jarrod; Schubert, Kevin
Cc: Wendy Holtz-Leith
Subject: 3rd Ave monitoring estimate

Jarrod,

Wendy just worked up a cost-reimbursable (not-to-exceed) estimate for the work we discussed. It includes preparation of the WHS permission request, staff monitoring of all initial ground disturbance for the project, and report write-up, plus a fieldwork "buffer" to cover excavation of a limited number of features if necessary. As always, if human remains are discovered, or additional materials that require excavation, that would require consultation with WHS and additional work above and beyond this estimate.

13 staff days monitoring:	$10,793
2 staff days permission request & report write-up:	$1,731
2 staff days (plus 4 crew days) field buffer:	$2,380
Curation of project records:	$100

Total: $15,004

Please let us know if you have any questions.

Thanks,
Kathy

Katherine Stevenson
Operations Manager
Mississippi Valley Archaeology Center
University of Wisconsin–La Crosse
1725 State Street
La Crosse, WI 54601
Phone: (608) 785-8451
E-mail: kstevenson@uwlax.edu

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #8

Project/Item Name: 2015 Stump Grinding

Location: Citywide

Requested Action: Approval of bid

Staff Report/Description: Bid tabulation is attached for review at meeting.

Attachments: Bid tabulation

CITY OF ONALASKA
2015 STUMP GRINDING PROJECT
BID OPENING
WEDNESDAY, FEBRUARY 25, 2015 AT 10:00 AM

CONTRACTOR	BIDDERS PROOF OF RESPONSIBILITY	BID BOND	BID AMOUNT ($)	CORRECTED BID AMOUNT ($)
Today's Tree Service	YES	YES	$ 48,000.80	$ 47,999.80
Les Manske & Sons	YES	YES	$ 27,993.75	$ 27,993.75
Kreibich Landscaping	YES	YES	$ 48,000.00	$ 136,206.00

APPARENT LOW BID = Les Manske & Sons

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #9

Project/Item Name:	2015 Utility Project
Location:	Citywide
Requested Action:	Approval of bid
Staff Report/Description:	Bid tabulation is attached for review at meeting.
Attachments:	Bid tabulation

CITY OF ONALASKA
2015 UTILITY PROJECT
BID OPENING
WEDNESDAY, FEBRUARY 25, 2015 AT 11:00 AM

CONTRACTOR	BIDDERS PROOF OF RESPONSIBILITY	BID BOND	BID AMOUNT ($)	CORRECTED BID AMOUNT ($)
McHugh Excavating	YES	YES	$ 914,773.90	$ 914,773.90
Haas Sons	YES	YES	$ 770,081.45	$ 770,154.65
Badger Environmental	YES	YES	$ 948,765.55	$ 948,765.55
Gerke Excavating	YES	YES	$ 806,144.84	$ 806,162.65
A-1 Excavating	YES	YES	$ 785,674.25	$ 785,674.25

APPARENT LOW BID = Haas Sons

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #10

Project/Item Name: 2015 Spring Tree Planting

Location: Citywide

Requested Action: Approval of bid

Staff Report/Description: Bids will be opened the day of the Board of Public Works meeting. Bid tabulation will be distributed for review at meeting.

Attachments: Bid tabulation

$30 FEE IF PICKED UP OR **$50 FEE** IF MAILED (NON-REFUNDABLE)

CITY OF ONALASKA
REQUEST FOR BID

2015 SPRING TREE PLANTING PROGRAM

Bidders Proof Due: February 27, 2015 @ 5:00 PM

Bid Opening: March 3, 2015 @ 11:00 AM

COMPANY	ADDRESS	DATE PICKED UP / MAILED
La Crosse Builders Exchange	427 Gillette St La Crosse, WI 54603	2/12/15 PU
Freibicks Landscaping	PO Box 123 West Salem WI 54669	PU 2/9/15

QuestCDN: List Planholders

Plan Holder Report as of 02/25/2015 10:34:22 AM CST
Onalaska, City of
2015 Spring Tree Planting (eBidDoc #3670983)

contact: Kevin Schubert
phone: 608-781-9537
e-mail: kschubert@cityofonalaska.com
bid date: 03/03/2015 11:00 AM CST

Help

Company	Contact	Designation	Bus. Types	Entry Date	Doc Type	Comments
HOFFMAN & McNAMARA CO. 9045 180th St. East Hastings, MN 55033	Lisa McDowell Phone: 651-437-9463 Fax: 651-437-9050 Email: lisa.mcdowell@hoffmanandmcnamara.com	Prime Bidder		02/13/2015	eBidDoc	
North Metro Companies 2402 Hwy 55 Medina, MN 55340	Jackie Hellzen Phone: 763-682-6008 Fax: Email: jackie@northmetrocompanies.com	Subcontractor		02/24/2015	eBidDoc	

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #11

Project/Item Name: 2015 Miscellaneous Concrete

Location: Citywide

Requested Action: Approval of bid

Staff Report/Description: Bids will be opened the day of the Board of Public Works meeting. Bid tabulation will be distributed for review at meeting.

Attachments: Bid tabulation

$30 FEE IF PICKED UP OR **$50 FEE** IF MAILED (NON-REFUNDABLE)

CITY OF ONALASKA
REQUEST FOR BID

2015 MISCELLANEOUS CONCRETE PROJECT

Bidders Proof Due: February 27, 2015 @ 5:00 PM

Bid Opening: March 3, 2015 @ 10:30 AM

COMPANY	ADDRESS	DATE PICKED UP / MAILED
La Crosse Builders Exchange	427 Gillette St La Crosse, WI 54603	2/12/15 UB

QuestCDN: List Planholders

Plan Holder Report as of 02/25/2015 10:33:06 AM CST
Onalaska, City of
2015 Miscellaneous Concrete (eBidDoc #3696834)

contact:	Kevin Schubert
phone:	608-781-9537
e-mail:	kschubert@cityofonalaska.com
bid date:	03/03/2015 10:30 AM CST

Help

Company	Contact	Designation	Bus. Types	Entry Date	Doc Type	Comments
Chippewa Concrete Services 3030 110th Street Chippewa Falls, WI 54729	Barry Bohman Phone: 715-723-5004 Fax: 715-723-5047 Email: barry@chippewaconcrete.net	Prime Bidder		02/13/2015	eBidDoc	
Fowler & Hammer, Inc. 313 Monitor Street La Crosse, WI 54603	Jim Fowler Phone: 680-782-6849 Fax: 608-785-7055 Email: achristopherson@fowlerhammer.com	Prime Bidder	WBE	02/13/2015	eBidDoc	
Sampson Concrete Construction 28051 100th Street New Auburn, WI 54757	Martin Maidment Phone: 715-568-2544 Fax: 715-568-2541 Email: goeasipour@yahoo.com	Subcontractor		02/16/2015	eBidDoc	

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #12

Project/Item Name: Coulee Transportation Study

Location: Citywide

Requested Action: Discussion on study

Staff Report/Description: The Wisconsin Department of Transportation has started a regional transportation study to look at existing and long term transportation issues. The study will use the Planning & Environmental Linkages planning process.

Attachments: Power point from Wis. DOT meeting

Coulee Region Transportation Study

Innovative Solutions for the 21st Century

Planning & Environment Linkages (PEL)

Andrew Winga, P.E. – WisDOT
Project Manager

Agenda

- Background on numerous Transportation Studies
- What is a Planning & Environment Linkage Study
- Problem Statement & Goal
- Next steps

2

Background and history

- Numerous Transportation Studies dating back to the 1940's
- La Crosse North-South Transportation Corridor Study (FEIS 1998)
- Coulee Connections Study (2006)
- Coulee Region Transportation Study (2015)
  - Planning and Environment Linkages (PEL)

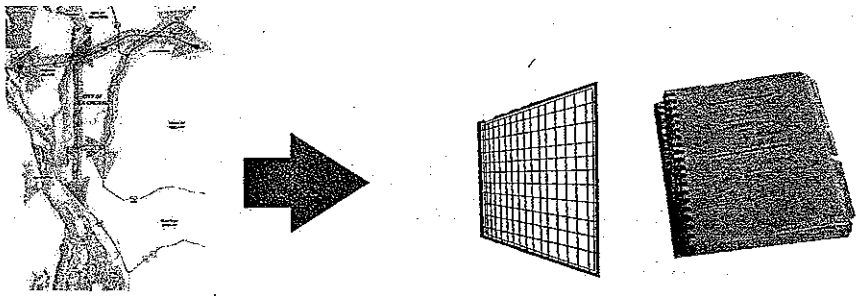
3

Planning & Environment Linkages(PEL)

A collaborative and integrated approach to transportation decision-making that considers environmental, community, and economic goals early in the transportation planning process, and uses the information, analysis, and products developed during planning to inform the environmental review process.

4

PEL Process

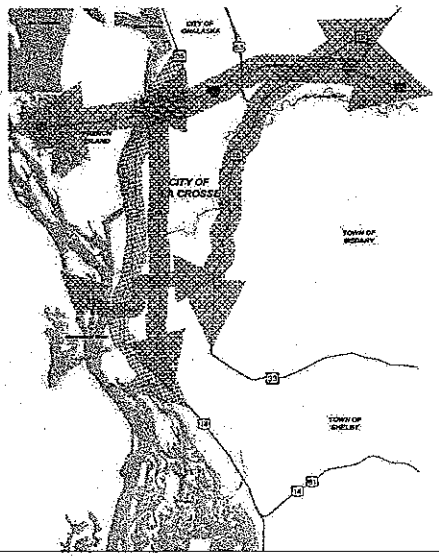


Develop Problem Statement, Goals, and Objectives → Develop Screening Criteria → Develop Strategies and Evaluate (Screen) → Identify Strategies to Bring Forward into NEPA

5

Many strategies will be investigated

- Improve existing conditions
- Investigate new corridor(s)
- Transit
- Bike and pedestrian
- Technology upgrades
- ?
- ?



6

What are the benefits of a PEL Study?

- Engages broad range of stakeholders to plan for area's environmental, community, and economic future in light of transportation problems and needs
  - Improves strategies development process
  - Extensive outreach increases public involvement

7

What are the benefits of a PEL Study?

- Improves Quality of Results
  - Presents opportunities for involvement early in the process
  - Increases stakeholder understanding of outcomes
  - Evaluates potential solutions against clear and easily understood criteria
  - Improves process efficiency and reduces cost

8

Planning & Environment Linkages(PEL)

- What are the advantages of a PEL in the Coulee Region?
  - Comprehensive study of the entire area
  - Extensive outreach and coordination
  - Opportunity to modify the original purpose and need
  - Opportunity to propose new alternatives
  - Opportunity to eliminate outdated and unworkable alternatives
  - Aids in the selection of the appropriate type of environmental document
  - Builds trust through a transparent process

9

Draft Problem Statement

- The Coulee Region Transportation Study, Planning and Environment Linkages(PEL) phase focuses on resolving existing and long-term transportation issues between I-90 and US 14/61. The focus of the study is to address safety, congestion, environmental concerns, multimodal deficiencies, infrastructure deterioration, and to support economic development and livability in the Coulee Region.

- The need for system improvements is based on a combination of factors relating to existing transportation problems and deficiencies, land use planning, corridor preservation, future travel demand, local community interests, and modal interrelationships.

10

Draft Goal

- The goal for the Coulee Region Transportation Study (PEL) is multi-focused: Improve vehicular and multi-modal travel and safety in a manner that accommodates economic development, acknowledges community plans, contributes positively to the area's quality of life, and limits adverse environmental and social effects to the extent practical.

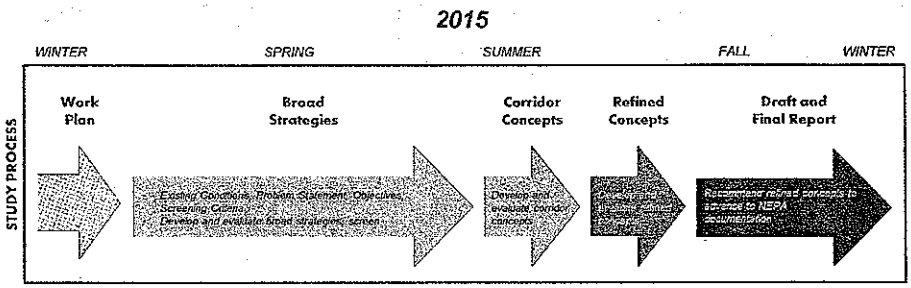
11

We want your input!

- Community Advisory Group(CAG)
- Technical Advisory Group(TAG)
- Policy Advisory Group(PAG)/LAPC Policy Board?
- Local Officials Meetings
- Public Information Meetings/Open Houses
- Neighborhood Groups
- Business Groups
- Special Interest Groups
- Any time any place

12

Next steps



13

Contacts and resources

WisDOT Project Manager
Andrew Winga, PE
WisDOT SW Region – La Crosse
3550 Mormon Coulee
La Crosse, WI 54601
608-785-9061
Andrew.winga@dot.wi.gov

Consultant Project Manager
Darren Fortney, AICP, NCI, LEED-GA
Short Elliott Hendrickson Inc.
6808 Odana Road, Suite 200
Madison, WI 53719
608-620-6191
dfortney@sehinc.com

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Coulee Region Transportation Study

Innovative Solutions for the 21st Century

Questions?

15

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #13

Project/Item Name: Cemetery mower

Location: Cemetery

Requested Action: Approval of purchase

Staff Report/Description: Three quotes have been received for the purchase of a replacement mower for the current 2005 cemetery mower. Staff is recommending the purchase of a Hustler Z DS from Bobcat of the Coulee Region in the amount of $9,785.27.

Attachments: Price quote tabulation

MEMORANDUM

To: Jarrod Holter

From: Nick Carlson

Date: 2-20-15

Refer: Cemetery lawnmower purchase

The City of Onalaska Street Department has received bids for a new 2015 rear discharge lawnmower for use in the cemetery to replace the existing 2005 John Deere side discharge mower. The new mower will have a rear discharge which will eliminate grass and debris from covering the stones. It will also have a diesel engine which will give longer engine longevity and fuel savings. We have received bids from:

Bobcat of the Coulee Region
Hustler Z DS
Shibaura diesel
60 inch deck

$13,285.27
-$3,500 trade in

$9,785.27 purchase price

Horizon Equipment
Z997R
John Deere diesel
60 inch deck

$16,450.00
-$2,500.00 trade in

$13,950.00 purchase price

Breyer's Sales & Service
Exmark Laser DS
Kubota diesel
60 inch deck

$19,313.00
-$8,000.00 trade and discount

$11,313.00 purchase price

The City of Onalaska Street Department recommends the Hustler Z from Bobcat of the Coulee Region.

Thanking you in advance for your consideration,

Nick Carlson

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #14

Project/Item Name: CTH SN

Location: CTH SN

Requested Action: Discussion on installation of sidewalk

Staff Report/Description: La Crosse County is reconstructing County Trunk Highway SN between CTH S and CTH OT. With expected State funding for the project bicycle and pedestrian accommodations are required as part of Trans 75. Due to the absence of housing in along this roadway and the need for retaining walls staff is recommending applying for waiver for the sidewalk installation. The cost of the sidewalk installation is estimated between $500,000 to $1,000,000 depending on the amount of retaining walls needed for the project.

Attachments: Resolution 22-2105

RESOLUTION 22-2015

REQUEST FOR WAIVER FROM TRANS 75 REQUIREMENTS FOR PEDESTRIAN ACCOMMODATIONS FOR THE CTH SN PROJECT

WHEREAS, the La Crosse County Highway department is proposing to replace roadway aggregrate base and pavement on CTH SN between CTH S and CTH OT within the City of Onalaska municipal limits (the "Subject Area"); and

WHEREAS, the City of Onalaska has determined that pursuant to the standard of Trans 75.06 there is an absence of need for sidewalks for pedestrian accommodations over the reconstructed portion of CTH SN; and

WHEREAS, the conditions of absence of need for sidewalks or the pedestrian accommodations pursuant to Trans 75, Exception 4 – that the Subject Area is within an urban area but is also within an outlying district where on each side of the highway within ay 1,000 feet along such highway the buildings average more than 200 feet apart; and

NOW, THEREFORE, BE IT RESOLVED, that the City of Onalaska hereby determines that the conditions are met for Administrative Code Trans 75 Exception 4 regarding the Absence of Need within the Subject Area and requests a waiver from Trans 75 requirement for pedestrian accommodations for the Subject Area County Highway SN between County Highway S and County Highway OT.

Dated this ____ day March, 2015.

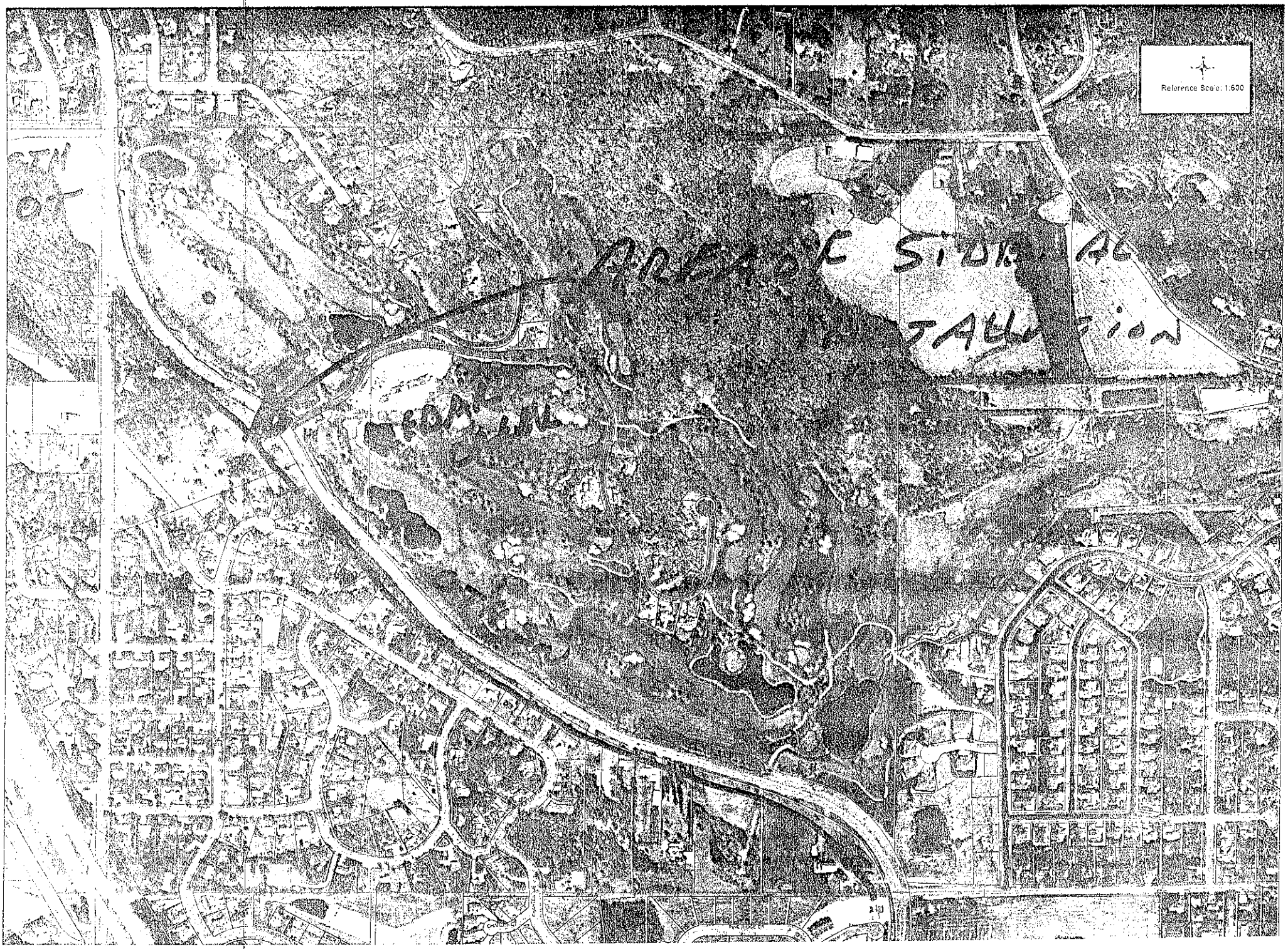
CITY OF ONALASKA

By:_____
Joe Chilsen, Mayor

By:_____
Caroline Burmaster, Clerk

PASSED:
APPROVED:
PUBLISHED:

{01723149.DOCX}


Reference Scale: 1:600
AREA OF SIDE AL
JAUNTION

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #15

Project/Item Name: CTH S

Location: CTH S – Redwood Street to CTH SN

Requested Action: Discussion on jurisdictional transfer

Staff Report/Description: La Crosse County is currently the maintaining authority on CTH S between Redwood Street and CTH SN. As City development has occurred and continues in the area it will be more efficient for the City to have jurisdiction over the roadway. Staff is requesting the start of negotiations for the transfer. A formal agreement for adoption will be brought forward at a later date.

Attachments: Map

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #16

Project/Item Name: GPS unit

Location: Citywide

Requested Action: Approval of purchase

Staff Report/Description: Utility staff is in implementation of new InfraMap software for tracking infrastructure. 2014 budget included $2,500 for rental of GPS unit to pick up manholes, curb boxes, inlets, etc. upon researching units it was found that one could be purchased for $6,490. Staff feels it would be a better investment to purchase versus rental.

Attachments: Quotes and product sheet

SEILER
GEOSPATIAL DIVISION

Sales Quotation

City of Onalaska, WI
Steve Jackson
sjackson@cityofonalaska.com
(608) 781-9545 x401
415 Main St.
Onalaska, Wisconsin 54650

Date Issued: 12/29/2014
Quote Expiration: 01/28/2015
Quote Number: 00011252

Qty	Part Number	Product Description	Unit Price	Subtotal
1.00	88180-02	**Trimble Geo 7XT handheld (Floodlight, NMEA)** o **Submeter** GPS, upgradable to decimeter and centimeter o Maximize your GNSS productivity and be ready for the future tracking GNSS constellations o Flexible software options, to collect, process, and manage data o Updated camera with improved zoom operation and brighter color reproduction o Dual mode cellular modem with GSM (worldwide) and CDMA (Verizon) network support o ARM Cortex-A8 1000 MHz processor with graphic processor unit (GPU) o 4 GB internal data storage (up from 2 GB) o Windows® Embedded Handheld (WEHH 6.5) o Add a laser rangefinder for remote positioning (optional) Trimble® Floodlight™ satellite shadow reduction technology delivers dramatic improvements to accuracy and position availability when working in urban canyons and under tree canopy. Uses a combination of technologies to deliver more reliable positioning in difficult conditions for those who require high accuracy but work in conditions with obstructed sky views.	$6,995.00	$6,995.00
1.00	94916-00	**Geo 7 series - Monopole kit** (telescoping pole, plus pivoting bracket w/ bubble level) -lightweight and customizable -pole takes the weight, so the user's arm doesn't -Positions antenna phase-center over the pole -Ensures consistent horizontal and vertical positioning - Stable platform for positioning, data entry, photography - Provides additional protection from accidental drops -Allows device to pivot for height measurements from the optional Geo 7 laser rangefinder	$495.00	$495.00

SEILER
GEOSPATIAL DIVISION

Sales Quotation

1.00	55910-40	Trimble Mapping **Trade-in** credit ($1,000) -Credit issued when units are returned -Trade-in unit must be functional -Program expires 1/3/15 -Applicable products and trade-in values are subject to change every 3 months. -Trade-in unit must be returned to: **Seiler Instrument** **Attn: Trade-Ins** **3433 Tree Court Industrial Blvd.** **St. Louis, MO 63122** Serial Number: 4701414766 (GeoXH 2005)	$-1000.00	$-1000.00

Note: *InfraMAP third-party software is the planned interface to this unit. Absent a paid Seiler Tech Support agreement or additional software purchase; our Trimble Standard Support will provide verification of hardware operating to specifications and successfully outputting NMEA data only. The Hardware comes standard with a full 12-month (extendable) warranty. Seiler Instrument provides complimentary support on hardware-related issues that are covered under a current factory warranty or warranty extension.*

This is not an invoice: Applicable sales tax may apply	**Total**	**$6,490.00**

Please contact us:

Gale Shea
9755 Airways Court
Franklin, Wisconsin 53132
Phone/Cell: (262) 212-0911
gshea@seilerinst.com

Your signature below acknowledges acceptance of terms and conditions of this quote: **00011252**. Please sign and return via fax to: (636) 923-2650 or return via email to: gshea@seilerinst.com

Signed: _____ Date: _____

Name: _____ Title: _____

Terms: Net 30 Days
Net 30 upon approved credit. Major credit cards accepted and financing options available.

"This sale, service, or rental is exclusively subject to and governed by the Terms and Conditions of Sale referred to in the related quotation and at http://solutions.seilerinst.com/TermsandConditions.aspx which are hereby incorporated by reference."

Trimble Geo 7X handheld (Floodlight, NMEA) - WEHH 6.5 P/N 88180-02

Buy Now

List Price: $6995.00 Each

Quantity: 1

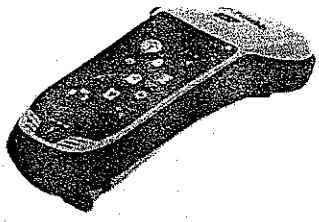
Include Maintenance

- Standard Warranty
- 1 year Hardware Warranty extension $325.00
- 2 year Hardware Warranty extension $450.00
- 4 Year Hardware Warranty Extension $855.00

Add to Cart

This configuration comprises a Trimble® Geo 7X handheld in a Floodlight-enabled submeter accuracy configuration. With the option of either using Trimble professional field software or third party NMEA based applications, this unit is supplied with Trimble Floodlight™ technology and the NMEA receiver options pre-assigned and pre-activated out-of-the-box. This configuration is capable of delivering high productivity submeter real-time accuracy in the hand. The Windows Embedded Handheld 6.5 operating system is provisioned with the choice of ten languages: English, German, French, Spanish, Italian, Portuguese, Korean, Japanese, Russian or Traditional Chinese.

For further details refer to the Trimble Geo 7X datasheet.



< 1 m NMEA

Bill of Materials

Part Number	Item Description	Qty
88180-02	Geo 7X handheld (Floodlight, NMEA) – WEHH 6.5	1
93773-03	Geo 7 Series - Hand Strap Kit	1
88004-04	Lithium Ion Battery Pack (11.1V 2.5Ah)	1
88007-01	Geo 6000/Geo 7 Series - Soft Carry Pouch	1
88014-00	AC Power Adaptor (15V 1A output)	1
93601-02	ScreenGuardz HD 4.2" Screen Protector Kit (2-pack)	1
88076-00	Geo 6000/Geo 7 Series - ID Label Sheet	1
88015-00	USB Data Cable (1.8m, Type-A to Mini-B)	1
88055-13	Geo 6000/Geo 7 Series - Stylus Kit	1
93578-00	Geo 7 Series - Quick Start Guide (International)	1

TRIMBLE GEO 7 SERIES

Easy and productive asset data capture with remote mapping and measurement

Capture more positions and increased accuracy in tough GNSS environments

Compatible with existing and planned GNSS constellations to maximize investment

Flexible software options to collect, process, and manage data with simple, connected workflows

READY FOR ANYTHING

Be truly productive with the Trimble® Geo 7 series. No matter what gets in your way.

The Trimble® Geo 7X handheld is from the Trimble GeoExplorer® series family of integrated, rugged, and high-accuracy GNSS handhelds. As a streamlined solution that enables faster and more productive data collection, the Geo 7X is ideal for organizations, such as utility companies, municipalities, and environmental agencies, requiring mobile data collection and asset management solutions.

Packed full of features that enable fast geospatial data collection anywhere with the level of accuracy and quality required by your organization, the Geo 7X is the most versatile GNSS handheld yet. The Geo 7X ensures you have the right data the first time, enabling the best decisions to be made quickly while saving time and money.

Eliminate physical barriers to field success

For times when occupying the position is simply not possible due to dangerous conditions or right-of-way challenges, turn to Trimble Flightwave™ technology integrated in the Geo 7X. Utilizing the detachable Geo 7 rangefinder accessory, Flightwave workflows enable scale and location measurement of field assets at distances up to 120 m without a reflector. Flightwave measurements integrate directly into Trimble data collection software—simply point and shoot to get the position—even where there are obstacles such as traffic or private land access limitations. The Geo 7X with Flightwave saves time each day while getting previously impossible work done.

Trimble Floodlight™ satellite shadow reduction technology keeps you working when heavy overhead cover, such as trees and buildings, obstruct GNSS satellite reception. Now you can work with fewer disruptions and obtain high quality data faster and at less cost. These powerful technologies enable you to stay productive all day long—no matter what obstacles you encounter.

Smart data collection, smart investment

By providing compatibility with existing and currently planned GNSS constellations, the Geo 7X delivers reliable GNSS tracking today and for years to come—ensuring your investment continues to provide value long into the future.

Achieve better accuracy in real-time without the reliance of a traditional reference station-based infrastructure or VRS network through Trimble RTX™ correction service options available with the Trimble Geo 7X. Trimble RTX correction services leverage real-time data from an established tracking station network to compute and deliver high-accuracy positions to the GNSS handheld nearly anywhere on the globe. A range of Trimble RTX correction services offered with the Trimble Geo 7X provide internet-delivered, high-accuracy GNSS positioning wherever cellular communications are available so you can obtain the accuracy you need—from submeter to centimeter level.

Compatible with the breadth of Trimble GIS field and office software, the Geo 7X gives you flexible end-to-end data collection solutions and workflow choices: from the field-proven Trimble TerraSync™ and Positions™ software to the customizable data collection workflows of Trimble TerraFlex™ software. Work productively, the way you want to.

Everything you need to work

With a powerful 1.0 GHz processor, 256 MB RAM, 4 GB of onboard storage, and IP65 rating, the Geo 7X is a high performance device, designed to work hard in the environments that you do. The built-in 5 MP camera with enhanced zoom operation, bright color reproduction, and geotagging capability enables information about an asset, event, or site to be easily captured. A sunlight-optimized display maintains exceptional clarity in all outdoor conditions for crisp on screen text and images. And with the integrated dual-mode cellular modem, you can stay connected for continuous network and Internet access to real-time map data, web-based services, Trimble VRS™ and RTX corrections, and live update of field information.

It's all there to keep you working. Stay on target, no matter what, with the Trimble Geo 7 series.

Trimble

PHYSICAL DIMENSIONS

Geo 7X handheld (H x W x D)	234 mm x 99 mm x 56 mm (9.2 in x 3.9 in x 2.2 in)
Geo 7X handheld with rangefinder	1080 g

GNSS, ORIENTATION, AND DISTANCE[1]

GNSS sensor	L1/L2 GNSS receiver and antenna
Chipset	Trimble Maxwell™ 6 (up to 220 channels)
Systems	GPS, GLONASS, Galileo, BeiDou, QZSS
SBAS	WAAS, EGNOS, MSAS, GAGAN, SBAS+
Floodlight	Yes
Receiver protocols	NMEA, TSIP2
Update rate	1 Hz
Time to first fix	< 45 seconds (typically)
Real-time correction protocols	RTCM2.x/RTCM3.x/CMR+/CMRx
Real-time Centimeter mode accuracy[2]	
Horizontal	1 cm + 1 ppm HRMS
Vertical	1.5 cm + 2 ppm VRMS
Postprocessed Centimeter mode accuracy[2]	
Horizontal	1 cm + 1 ppm HRMS
Vertical	1.5 cm + 1 ppm VRMS
H-Star™ accuracy (real-time or postprocessed)	10 cm + 1 ppm HRMS
Code DGNSS accuracy (real-time)	75 cm + 1 ppm HRMS
Code DGNSS accuracy (postprocessed)	50 cm + 1 ppm HRMS
SBAS accuracy	<100 cm
CenterPoint® RTX (via cellular)[3]	
Horizontal	4 cm HRMS
Vertical	10 cm VRMS
RangePoint™ RTX (via cellular)[3]	30 cm HRMS
ViewPoint RTX (via cellular)[3]	50 cm HRMS
Orientation sensors	3-axis gyro, magnetometer, accelerometer
Heading accuracy	±1.5°
Inclination accuracy	±0.5°
Roll accuracy	±0.5°
Distance sensor	Laser rangefinder module
Communication protocols	NMEA or Trimble proprietary
Passive range	Up to 120 m
Reflective range	Up to 200 m
Accuracy[2]	±0.05 m
Range precision	0.01 m

NETWORK AND WIRELESS CONNECTIVITY

GSM/GPRS/EDGE	850 / 900 / 1800 / 1900 MHz
UMTS/HSPA+	800 / 850 / 900 / 1900 / 2100 MHz
CDMA/EV-DO Rev. A	800 / 1900 MHz (Verizon certified)
Wi-Fi	802.11b/g
Bluetooth profiles	BT 2.0 +EDR (SPP, OPP, FTP, PAN, A2DP, DUN, HID)

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POWER AND BATTERY[4]

Type	Rechargeable, removable Li-Ion
Capacity	11.1V 2,500 mAH
Charge time	< 4 hours (typical)
Real time DGNSS usage (via integrated 3G/3.5G)	Up to 7 hours
Real time DGNSS usage (via Bluetooth)	Up to 9.5 hours
Autonomous GNSS usage	Up to 10.5 hours
Non-GNSS use	Up to 24 hours
Standby	Up to 50 days

SYSTEM CPU, MEMORY, AND CAMERA

CPU	Texas Instruments DM3730 1 GHz + GPU
Memory	4 GB user memory + SD slot (up to 32 GB), 256 MB RAM
Camera	5 MP

DISPLAY AND TOUCH PANEL

Display	4.2" VGA (640 x 480) LED transflective
Touch panel	Resistive touch panel with polarized light filter
Brightness	280 cd/m²

OS

Microsoft® Windows® Embedded Handheld version 6.5 Professional.
English (U.S.), Chinese (Simplified), Chinese (Traditional), French, German, Italian, Japanese, Korean, Spanish, Portuguese (Brazil), Russian.

SYSTEM REQUIREMENTS

Syncing with a PC requires Windows 7, Windows Vista, or Windows XP Home or Professional with Service Pack 3 or later. Some field applications and services require mobile internet access.

ENVIRONMENTAL USE

Operating ambient temperature	–4° to 140° F (–20° to 60° C)
Storage temperature	–22° to 158° F (–30° to 70° C)
Relative humidity	95% non-condensing
Maximum operating altitude	29,000 ft (9,000 m)
Maximum storage altitude	40,000 ft (12,000 m)
Water/dust ingress	IP65
Functional shock	MIL-STD 810G Method 516.6 Procedure I
Drop	4 ft (1.22 m)
Vibration	MIL-STD 810 G Method 514.6 Procedure I

SOFTWARE COMPATIBILITY

Please refer to the **Product Compatibility** list.
(www.trimble.com/mappingGIS/productcompatibility)

1. Accuracy and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. Always follow recommended GNSS data collection practices. Specified Centimeter accuracy can normally be achieved for baselines of 30 km or less. Specified H-Star accuracy can normally be achieved for baseline lengths of 100 km or less. Centimeter and H-Star accuracy is typically achieved within 2 minutes. CenterPoint RTX accuracy is typically achieved within 30 minutes. RangePoint RTX and ViewPoint RTX accuracy is typically achieved within 5 minutes.
2. Stated accuracy is with Trimble Zephyr™ Model 2 GNSS antenna. Requires the Geo 7 series Centimeter Option.
3. 1-sigma, @ 20 C, to Kodak Grey card at 50 m
4. Actual run time will vary with conditions and environment of use.

Specifications subject to change without notice.

CE 0682 Bluetooth

NORTH AMERICA
Trimble Navigation Limited
10368 Westmoor Dr
Westminster CO 80021
USA

EUROPE
Trimble Germany GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY

ASIA-PACIFIC
Trimble Navigation
Singapore Pty Limited
80 Marine Parade Road
#22-06, Parkway Parade
Singapore 449269
SINGAPORE

Trimble

		Leak Detection	$6,000	
		Service parts such as copper pipe, curb stop, curb boxes, corps, etc.	$2,500	
610-57400	**476**	**Maintenance of Meters**		**$5,000**
610-57400	**477**	**Maintenance of Hydrants**		**$39,000**
		Painting-240 @ $100/each	$24,000	
		Hydrant repair parts, extensions, etc.	$15,000	
610-57400	**478**	**Maintenance of Misc. Plant**		**$4,000**
		CUSTOMER ACCTS - METER READING		
610-57500				
		CUSTOMER ACCTS - ACCT & COLLECTING		
610-57550	**495**	**Misc. Customer Accounts**		**$7,000**
		ADMINISTRATIVE & GENERAL		
610-57600	**240**	**Software Maintenance Contractual**		**$8,600**
		Contracted IT support assistance	$1,000	
		XC2 cross connection software support	$1,600	
		Miscelleanous	$6,000	
610-57600	**241**	**Equipment Maintenance Contractual**		**$1,000**
		Sensus system support	$750	
		Misc.	$250	
610-57600	**290**	**Other Contractual Services**		**$28,500**
		Engineering services	$2,500	
		Commercial cross connection inspection assistance due to complexity and that must be performed due to DNR regulations. 100 @ $125 each	$16,000	
		Plumbing work at larger meter sites, such as high school soccer field, omni center, ship shape car wash, to get new style of meter installed	$2,500	
		Addtitional miscelleanous contractual	$5,000	
		Rental of GPS unit for locating water infrastructure	$2,500	
610-57600	**302**	**Taxes**		**$356,000**
610-57600	**310**	**Office Supplies**		**$8,500**
610-57600	**360**	**Vehicle Maint & Repair**		**$23,000**
610-57600	**361**	**Regular Fuel**		**$17,000**
610-57600	**362**	**Off Road Fuel**		**$2,000**

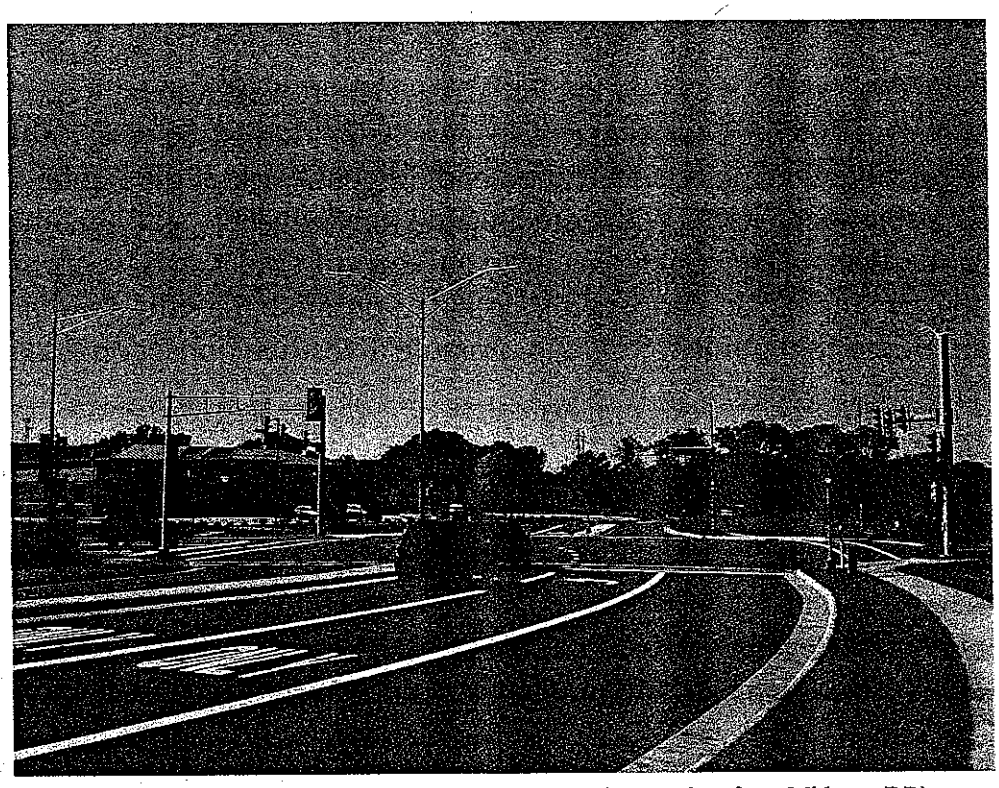
STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item:	#17
Project/Item Name:	Public Works Department annual report
Location:	Citywide
Requested Action:	Discussion on report
Staff Report/Description:	The 2014 Public Works Department annual report is attached for your review.
Attachments:	2014 Public Works Department annual report

CITY OF ONALASKA
PUBLIC WORKS DEPARTMENT
2014 ANNUAL REPORT



Theater Rd Midwest DR Intersection Improvements (West View from Midwest DR)

DEPARTMENTS

Engineering
415 Main Street
Onalaska, WI 54650
Phone: (608)-781-9537
Fax: (608)-781-9506

Street & Storm
252 Mason Street
Onalaska, WI 54650
Phone: (608)-781-9539
Fax: (608)-781-9507

Utility
252 Mason Street
Onalaska, WI 54650
Phone: (608)-781-9545
Fax: (608)-781-9508

Public Works Department Mission Statement

To promote the safety and public welfare of the community.
Strive to promote a positive impact on the quality of life for all people.

Message from the City Engineer

To Mayor, Common Council, & Residents,

I respectfully submit the 2014 Public Works Department Annual Report for your review. The projects and services completed during the year would not be possible without the dedication and diligent work of the Public Works Department staff. With veteran and knowledgeable staff members the Public Works Department is able to strive to offer elevated levels of service to carry out the department mission: "To promote the safety and public welfare of the community. Strive to promote a positive impact on the quality of life for all people".

Highlighted projects of 2014 included Theater Road traffic signal project, East Main Street reconstruction project, reservoir improvement project, check valve project, lead & copper sampling, frozen water laterals, winter 2014 snowfall and automated carts for solid waste services. Challenges and adversity were encountered during the year but with hard work and innovative solutions, responsibilities and duties were effectively accomplished.

2015 is appearing to be another busy year with construction projects, daily services and impending development within the City. I have confidence the Public Works Department will continue to have a positive impact for the residents of the City of Onalaska in 2015.

Please review the 2014 annual report outlining the projects and services offered during the year and contact us if you have questions, comments or concerns.

C. Jarrod Holter, P.E.
City Engineer

CAPITAL PROJECTS

Capital Projects

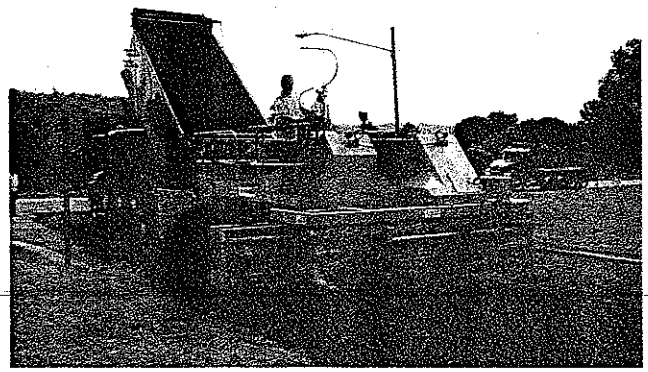
Completing yearly capital projects is an integral part of maintaining the City of Onalaska's infrastructure and ensuring public safety and welfare. The Engineering Department provides various levels of oversight on the design, bidding, and construction phases of each capital project with the assistance of both Street & Utility Departments. A breakdown of capital project constructed in 2014 are as follows:

Project Name	Construction Costs
• Theater Road Midwest Drive Intersection Improvements	$742,114.39
• 2014 East Main Street Reconstruction	$980,216.34
• 2014 Paving Project	$586,103.86
• 2014 Marcou Road Sidewalk	$201,038.05
• Water Main Check Valve Installation	$263,993.47
• Reservoir Improvements	$284,846.51
• 2014 Miscellaneous Concrete	$79,696.62
• Pavement Maintenance	$234,234.81

Total Construction Costs = $3,372,244.05

PAVEMENT MAINTENANCE

As part of the yearly capital projects a pavement maintenance program is completed. In 2014, the pavement maintenance program included chip sealing, crack filling and saw & seal. Chip sealing is placement of asphalt emulsion on the roadway followed by fine rock chips. Crack filling applies specialized asphalt into and above existing pavement cracks to prevent the intrusion of water. Saw & Seal is the process of cutting and filing control joints into new asphalt pavement to help prevent random cracks from forming.



Chip sealing maintenance extends the useful life of asphalt roadway pavements

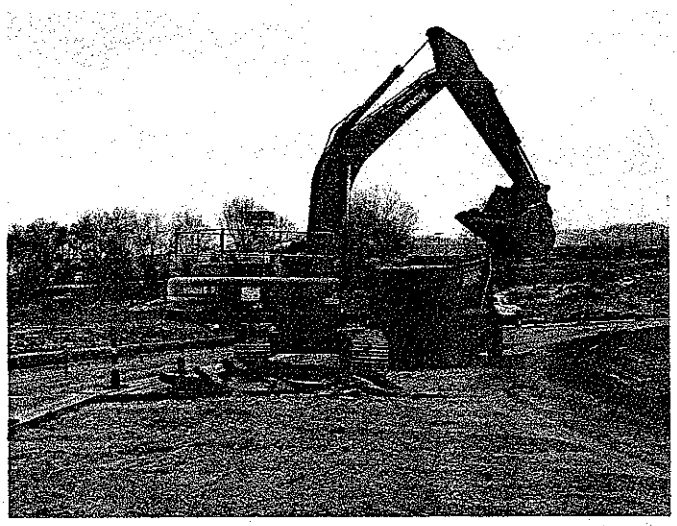
Theater Rd Midwest DR Intersection Improvements

The Theater Road Midwest Drive Intersection Improvements project signalized the intersection and expanded the number of traffic lanes at the intersection to provide a better level of service for the intersection. Prior to the construction the intersection was a "T" intersection with continuous traffic on Theater Rd and a stop sign on Midwest DR at Theater Rd. At peak traffic times motorist had a difficult time making left hand movement from Midwest DR onto Theater Rd, which in some cases resulted in unsafe and risky driving decisions by motorist. The project not only signalized the intersection, but extended Midwest DR west of Theater Rd making the new intersection a four way signalized intersection.

The project was constructed in two phases to maintain a north and south bound lane of traffic on Theater Rd, but Midwest DR was closed starting at the intersection and continuing 500 feet east along Midwest DR for the duration of the project. The expanded intersection also required the City of Onalaska to negotiate with the existing property owners at the intersection to obtain additional right of way for the new intersection.

The project included extensive roadway reconstruction for the expanded intersection that included subgrading, geotextile fabric, placement of crushed aggregate base course, curb and gutter, and asphalt pavement. Additional construction activities included storm sewer mains and inlets, fire hydrant replacement and relocation, concrete sidewalk, restoration, and pavement markings.

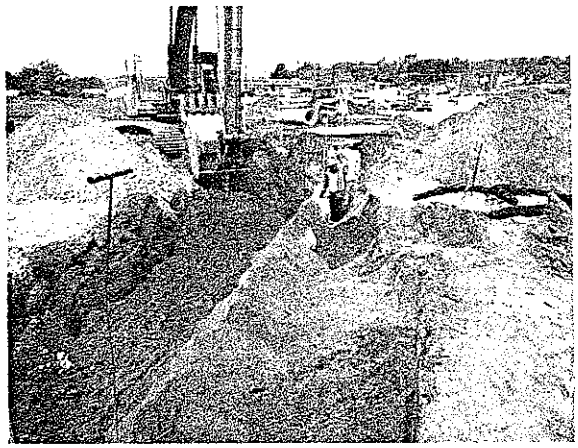
Traffic control on Theater Rd for phase one of the project to reconstruct the south bound lanes on Theater Rd.



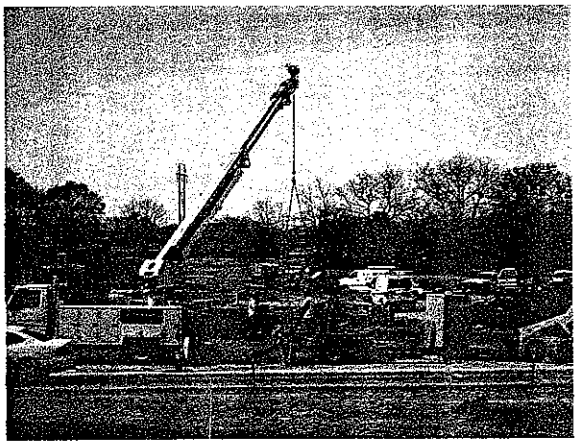
Removing the existing asphalt pavement in the south bound lanes on Theater Rd.

Theater Rd Midwest DR Intersection Improvements

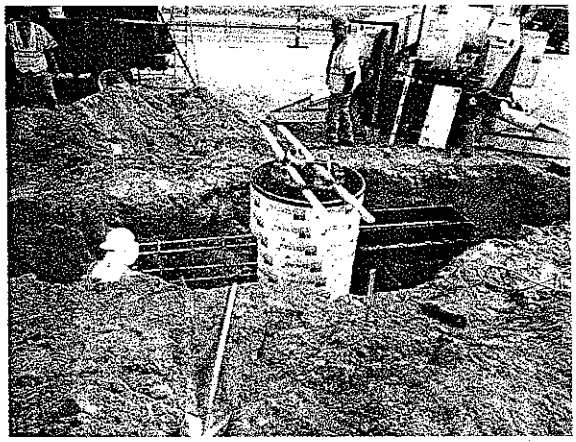
Grading the new right of way for additional roadway width, curb & gutter, and sidewalk on Theater Rd south of the intersection.



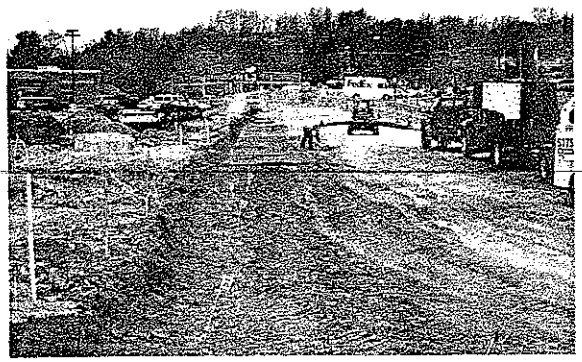
Installation of new storm sewer main for the extension of Midwest DR west of Theater Rd.



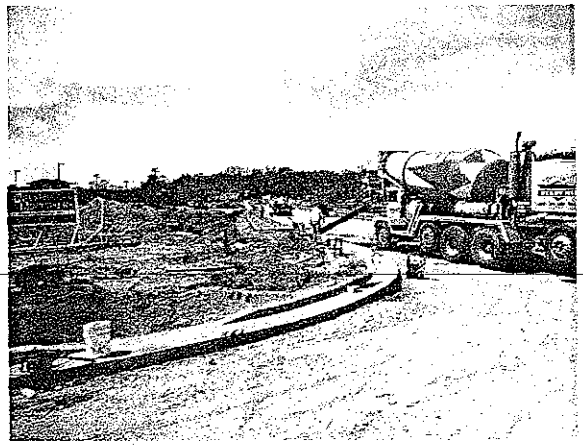
Installing rebar for the new 14 foot deep concrete base structure for a new pole and 40' monotube arm for a signal light at the SW corner of the intersection.



Installing rebar for the new 14 foot deep concrete base structure for a new pole and 40' monotube arm for a signal light at the SW corner of the intersection.

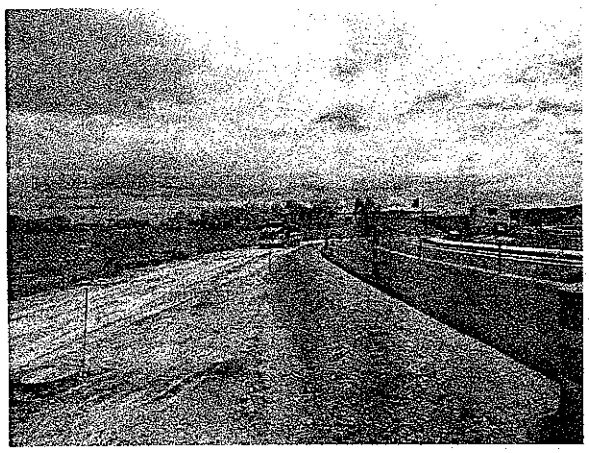


Geotextile fabric installation for widening the south bound lanes on Theater Rd during phase one of the construction.

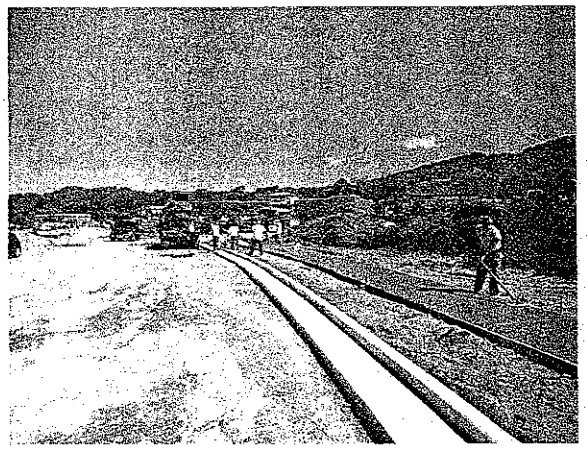


Installation of concrete curb & gutter, and sidewalk on Theater Rd during phase one of construction.

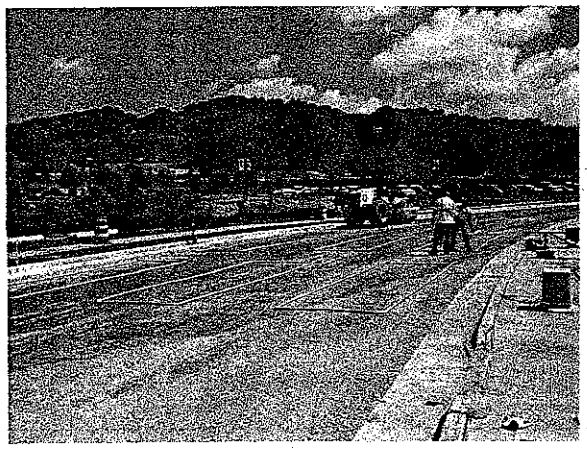
Theater Rd Midwest DR Intersection Improvements



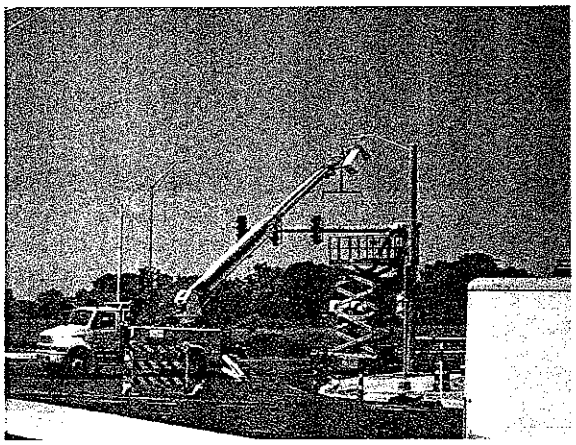
Subgrading for new north bound lanes on Theater Rd during phase two of construction.



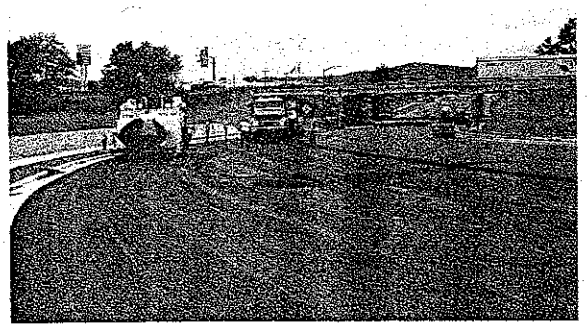
Installation of concrete curb & gutter, and sidewalk on Theater Rd during phase two of construction.



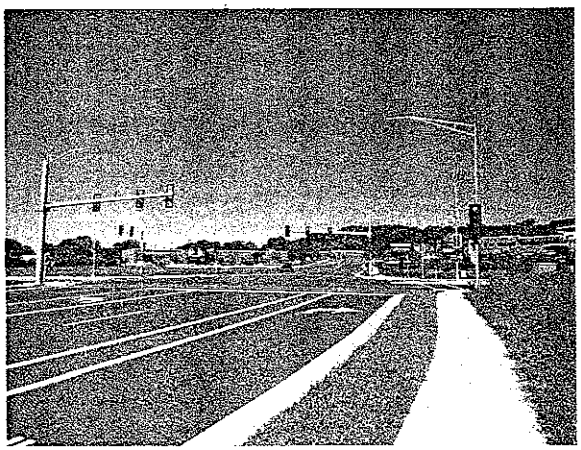
Installation of loop detectors on Midwest DR for the new signal lights during phase two of construction.



Installing a 35 foot monotube arm for a new signal light on Theater Rd at the NE corner of the intersection during phase two of construction.



Asphalt paving on Theater Rd at the end of phase two of construction. The entire intersection was closed for paving for 96 hours.



The completed intersection with signal lights, pavement markings, and restoration on Theater Rd (north view).

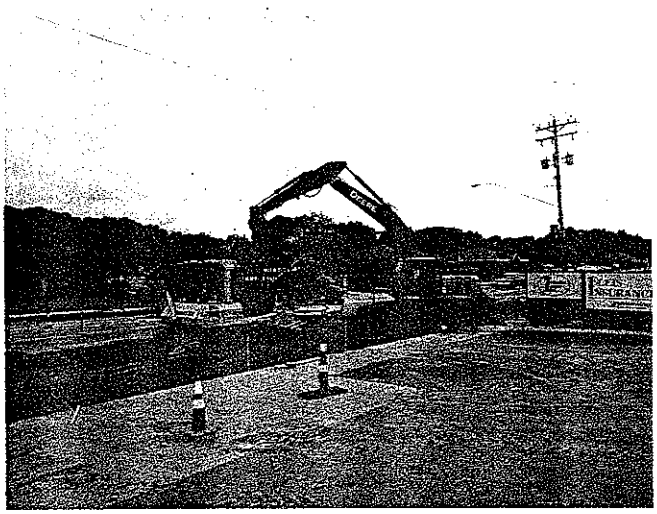
2014 East Main Street Reconstruction

The 2014 East Main Street Reconstruction project widened East Main St from Green Coulee Rd to Esther DR to accommodate a new two way left turn lane to allow for safer access and egress to businesses and side streets along this portion of East Main St. Additionally the project milled and relayed two inches of asphalt pavement on East Main Street from Esther DR to Theater Rd.

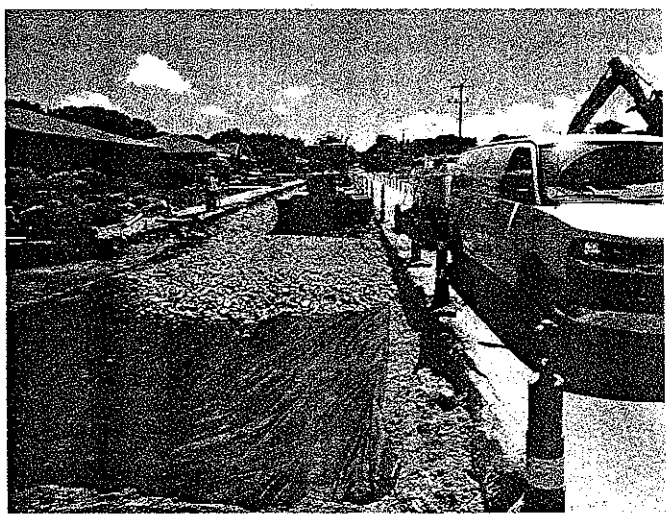
Project coordination was essential to maintain the 20,000 vehicles per day traffic volume and access to the over 20 businesses along the construction route that included dentist offices, banks, investment and insurance offices, salons, a golf course and bowling alley, gas station, and the Onalaska School District office.

To maintain traffic the project was constructed in phases with phase one expanding the outer two lanes with traffic traveling in the center two lanes. Phase two reconstructed the inner lanes and traffic traveled on the new constructed outside lanes.

Project construction activities include replacement of the existing roadway subbase from 6" crushed aggregate to 16" crushed aggregate (10" breaker run, 6" gravel, and geotextile fabric), concrete curb and gutter, driveway aprons, and spot sidewalk replacement, storm sewer mains and inlets, five inches of asphalt pavement, and sod restoration.



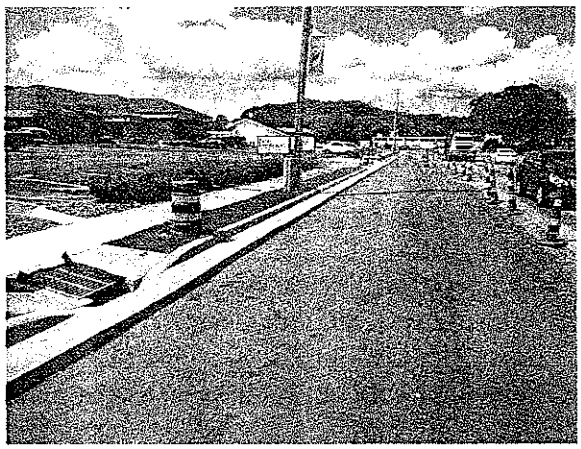
Removing existing roadway subbse to achieve subgrade elevation for new thickened roadway subbase in an outer lane during the first phase of construction.



Reconstructing roadway subbase with geotextile fabric and breaker run while expanding the outer lanes during the first phase of construction.

2014 East Main Street Reconstruction

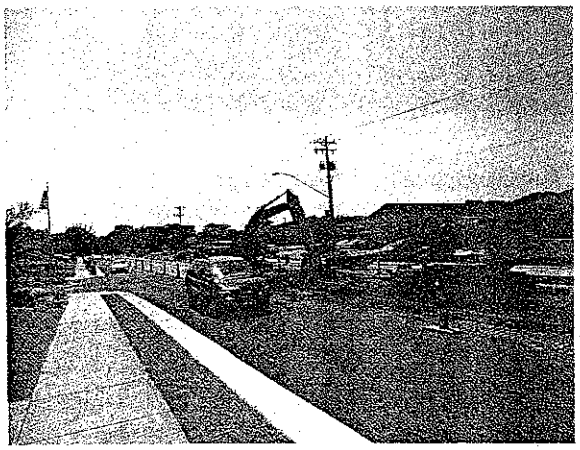
Installation of storm water inlets in the new outer lanes during first phase construction.



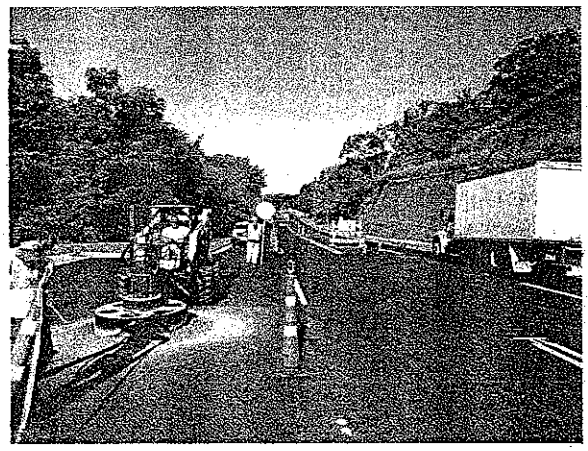
Installed storm water high capacity inlet and curb & gutter.

Boulevard sod restoration in new outer lanes during first phase construction.

Asphalt pavement installation in newly constructed outer lanes during first phase construction.



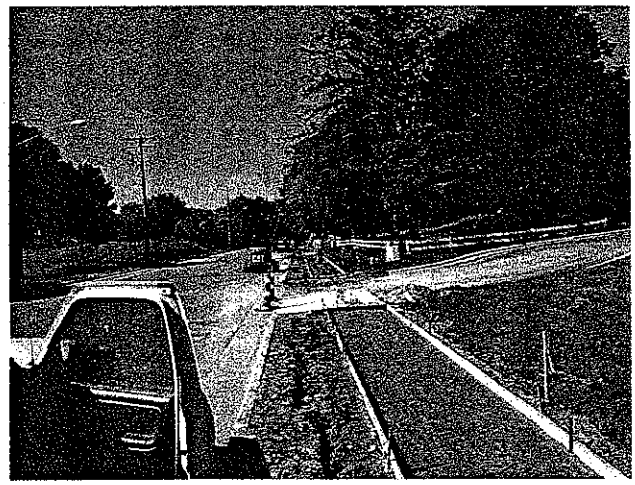
Removing existing roadway subbase from inner lanes with traffic shifted to the new outer lanes during second phase construction.



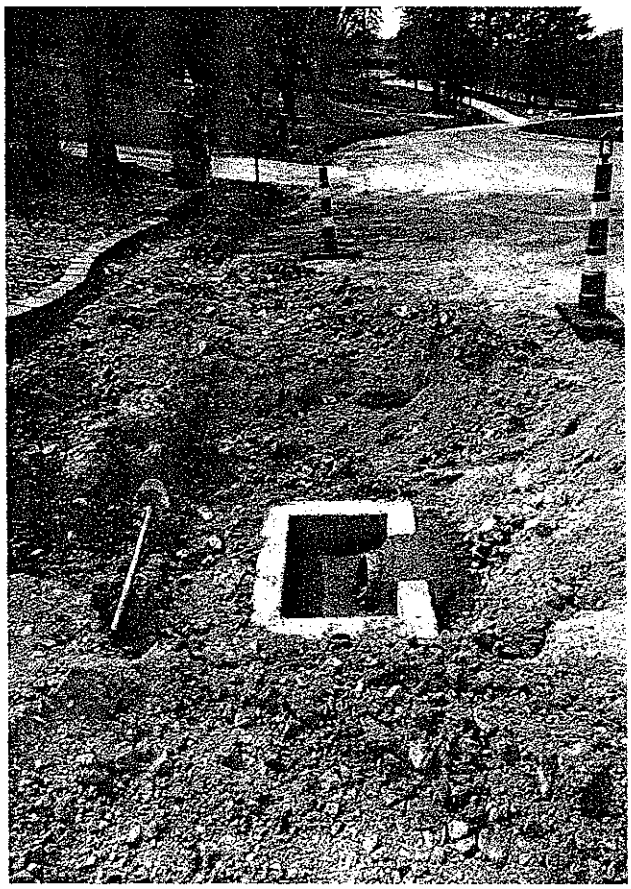
Manhole casting adjustment after asphalt placement on milled portion of project (Esther DR to Theater Rd).

2014 Marcou Road Sidewalk

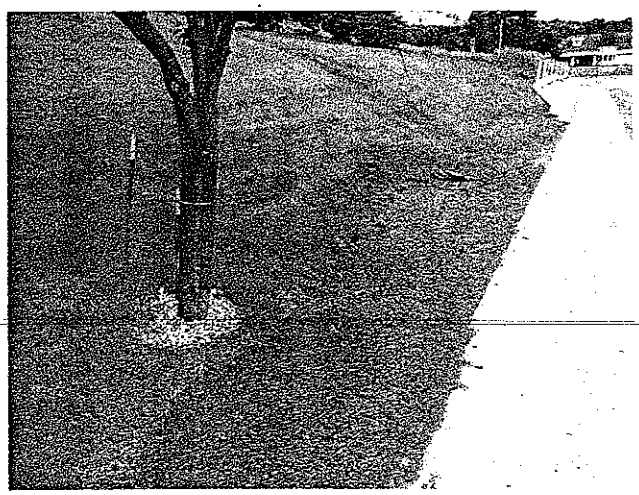
2014 Marcou Road Sidewalk project installed a five foot wide concrete sidewalk along the western side of Marcou Road from East Main Street to 200 feet north of Country Club Lane. Construction required that the right of way behind the existing curb & gutter be regarded to allow for installation of new sidewalk. There was a 1,000 foot stretch immediately south of Country Club Lane were the existing western south bound travel lane asphalt, curb & gutter, and storm water inlets were relocated in order to accommodate the new sidewalk within the existing City right of way. The south bound travel lane was repaved with the lane width reduced from 16 feet to 11 feet, new concrete curb & gutter was installed, and the storm water inlets were relocated five east into the new curb & gutter. Final restoration was completed with black dirt, seed, fertilizer, and mulch, with some sloped areas receiving additional erosion control blankets and straw wattles.



Installation of sidewalk forms for placement of new sidewalk.



Existing storm water inlets had to be moved five feet in towards the roadway centerline to make room for the new sidewalk.

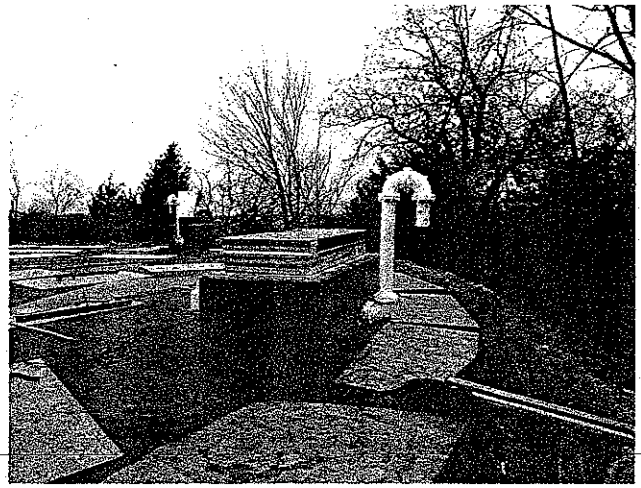


Restoration included black dirt, seed, fertilizer, and mulch along with slope stabilization.

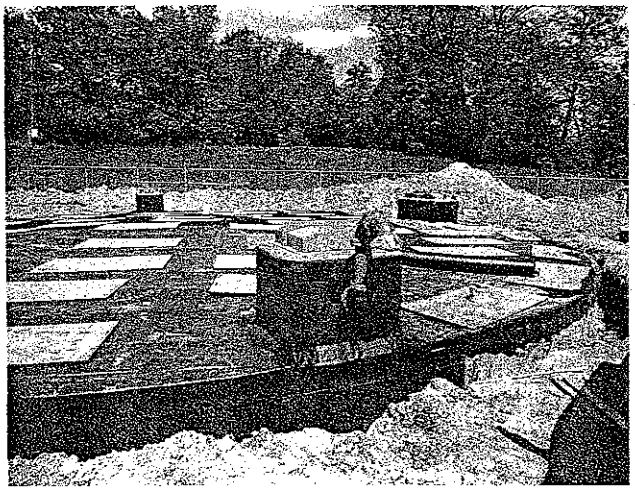
2013 Reservoir Improvements

The 2013 Reservoir Improvements project began construction in the fall of 2013 and was complete during the summer of 2014. The project installed new sheet waterproofing membranes to the roofs of three (Hauser –1, Well Street—2) existing buried potable water storage reservoirs. Construction began at each site by removing the existing earthen cover from top of each reservoir. Once the reservoir roofs were exposed and new sheet waterproofing membrane system was installed on each reservoir roof. A perforated drain tile was placed around each reservoir and was buried four feet below each reservoir roofs to collect and discharge water that drains off the new membrane. The access hatches on all three reservoirs were also replaced. Finally earthen material was return to cover and insulate each reservoir, with final restoration occurring with black dirt topsoil and hydro seeding.

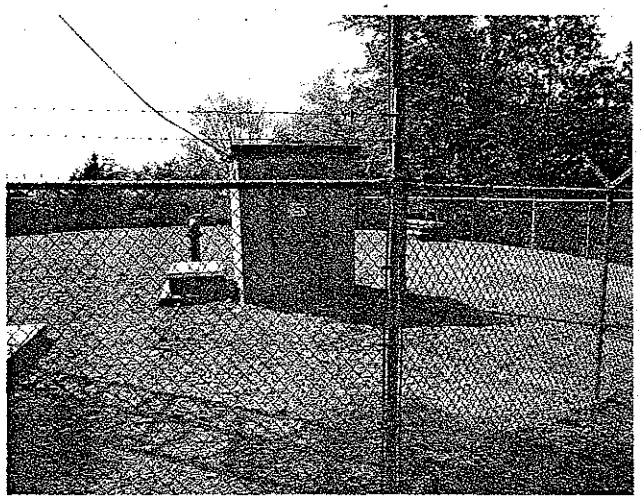
Reservoir roof insulation and membrane being installed at Hauser Reservoir.



Reservoir access hatched installed at Hauser Reservoir.



Reservoir roof insulation and membrane being installed at Well Street Reservoirs.



Final restoration with black dirt, and hydro seeding at Hauser Reservoir.

Solid Waste Services

In 2013 the City of Onalaska bid and awarded a seven year contract for solid waste services to begin January 1, 2014 with Harter's Quick Clean for city residential, less than four units per structure, solid waste services. Services include refuse, recycling, yard waste, leaf vacuuming, and Christmas tree pick up. Solid waste services for commercial, governmental, institutional, and residential structures over four units are privately contracted by the owners.

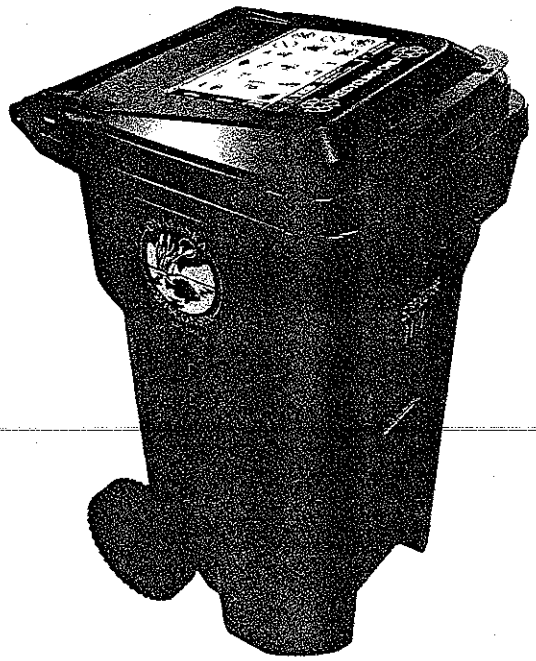
2014 was a year of change as the City implemented automated cart systems for refuse and recycling pick up. In this system over 6,100 residential structures were assigned an automated cart for collection of refuse and recyclables. The initial delivery included a 65 gallon carts for refuse and recycling for all sites. During the spring of 2014 all residents were allowed a choice of cart sizes (35, 65, or 95 gallon) for either refuse or recycling and the cart change out was accomplished in July 2014.

The new automated cart system moved the City to single stream recycling allowing residents to comingle all recyclables in their recycling cart. Due to the ease of use for the new cart and additional recyclable items allowed, the City recycling tonnage increased and refuse tonnage decreased thereby showing budget savings. A comparison of 2013 to 2014 tonnages is listed below.

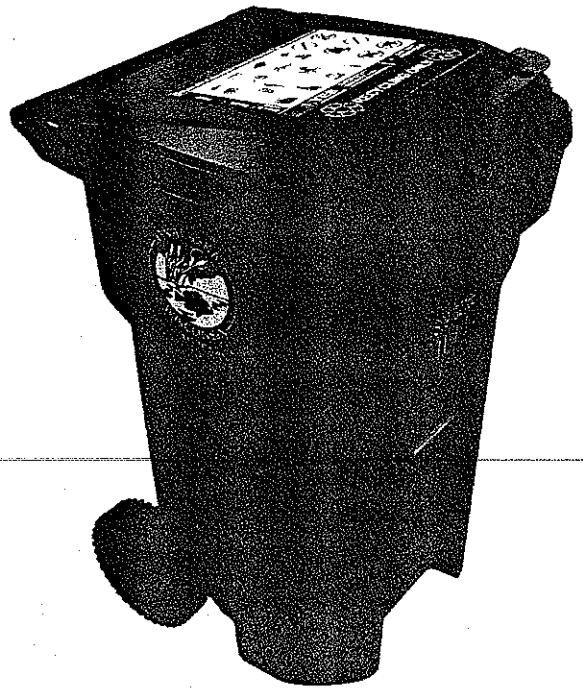
	Refuse	Recycle
2013 Tonnage	4,622	577
2014 Tonnage	3,164	1,419

As a result of the implementation of the automated carts the recycling tonnage increase 842 tons or 245%. Similarly the refuse tonnage was reduced 1,458 tons or 31% which translated into a savings to the City of $88,938 (1,458 tons @ $61/ton).

Public Works staff also works yearly on the distribution of the Recycler pamphlet to all City serviced dwelling outlining policies and procedures for solid waste services. Residents embraced the change to the automated cart system in 2014 with staff continuing to work on further system efficiencies in 2015.

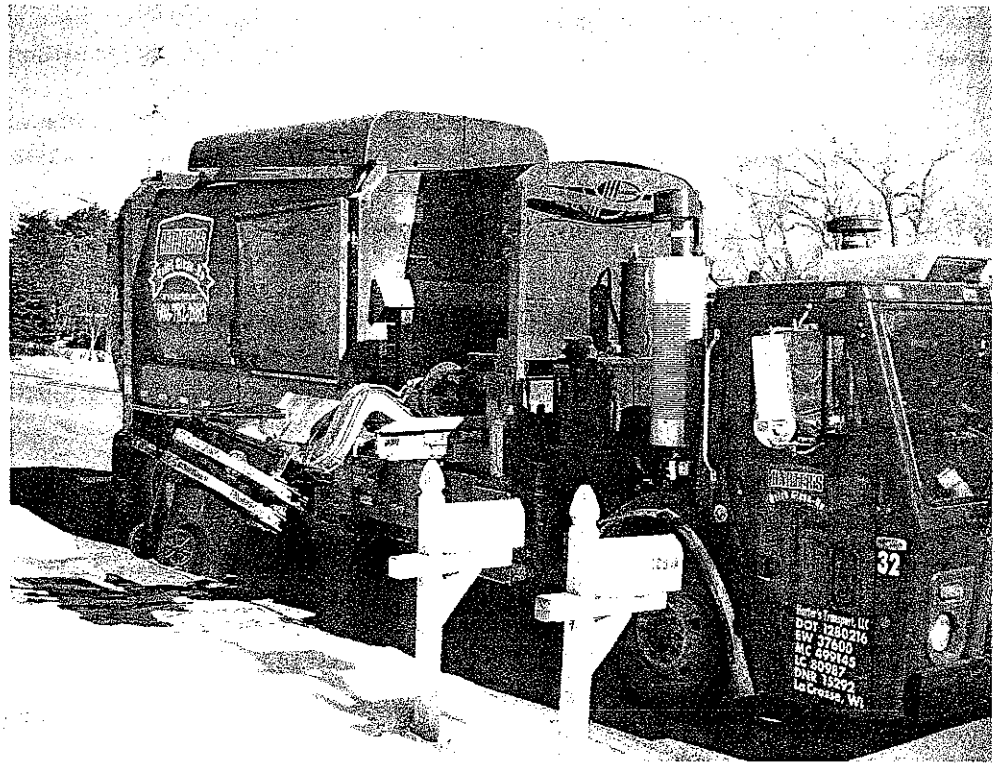


Automated Refuse Cart

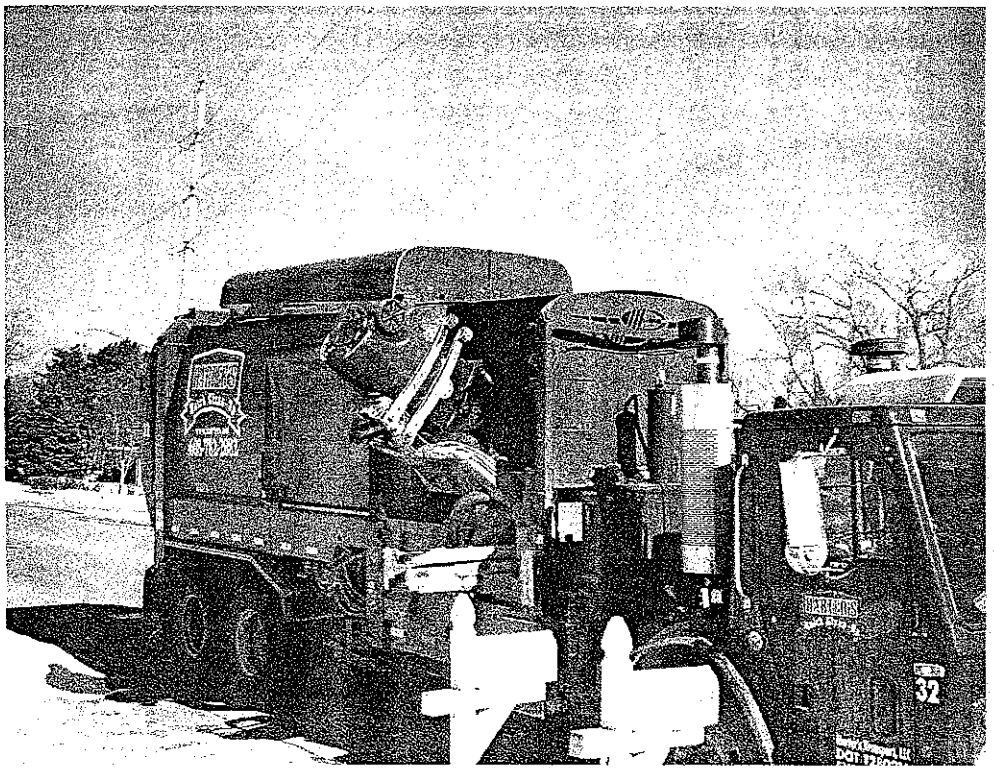


Automated Recycling Cart

Solid Waste Services



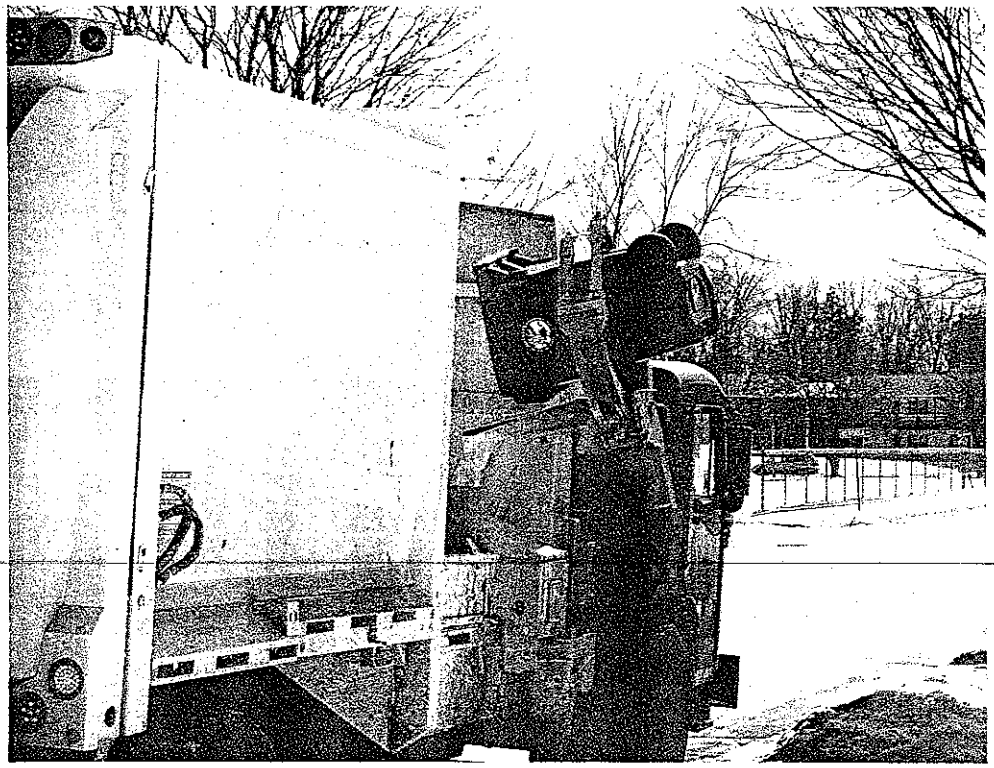
Automated Refuse Cart Pickup



Automated Refuse Cart Pickup

Solid Waste Services

Automated Recycling Cart Pickup



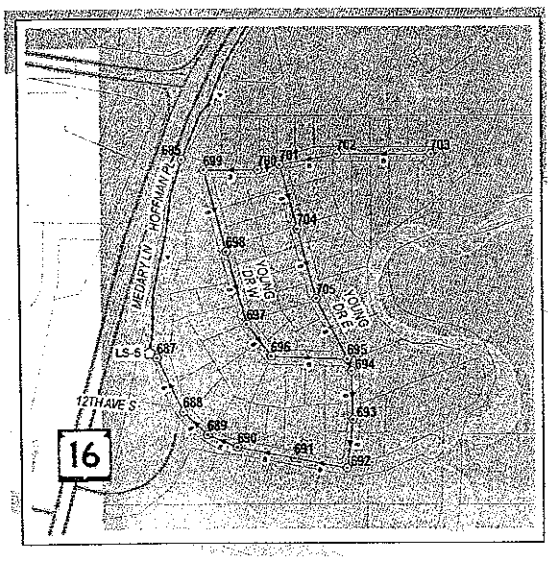
Automated Recycling Cart Pickup

Geographical Information System (GIS)

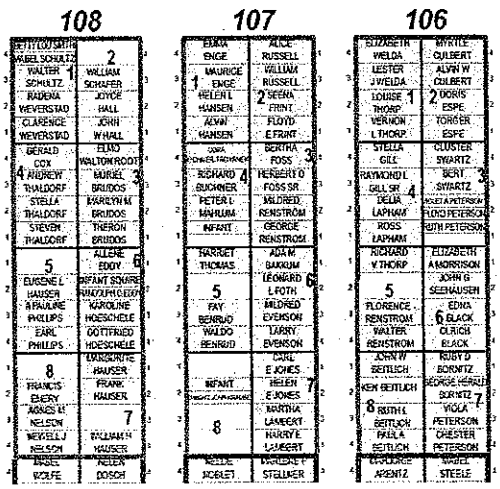
The Engineering Department receives continual support from GIS Technician, Joe Barstow. Some various duties and support efforts during 2014 were as follows:

- ▷ Maintaining GIS data for the Engineering Department which also includes both the Street and Utility Departments. This data includes and not limited to:
  - ▶ Cemetery ▶ Boulevard Trees ▶ Street Maintenance
  - ▶ Water Infrastructure ▶ Sanitary Sewer ▶ Storm Water Infrastructure
- ▷ Assist Engineering with new automated refuse and recycling cart pickup
- ▷ Managed updated county and city base layers for Engineering needs
- ▷ Assists staff with hardware/software issues and GIS data integration into InfraMAP
- ▷ Created reports or spreadsheet data for calculating future needs analysis
- ▷ Assists Engineering staff with departmental needs and maps for the city website
- ▷ Provide survey assistance for future projects
- ▷ Erosion Control: Provided permit application review, field inspections, and reporting of commercial construction sites
- ▷ Storm Water: Permit review, maintains impervious square feet totals from as-built information for commercial projects, and inspections
- ▷ Assisted with miscellaneous requests from the public and staff for both printed/digital layouts and tabular data manipulation
- ▷ Integrate as-built data from public, and commercial projects into the City's GIS layers
- ▷ Update the Locate (tap/wye) Database, and assist with Utility PSC Reports
- ▷ Acts as a liaison with WI DNR and FEMA personnel

Sanitary Infrastructure:



City Cemetery Data:



Street Department

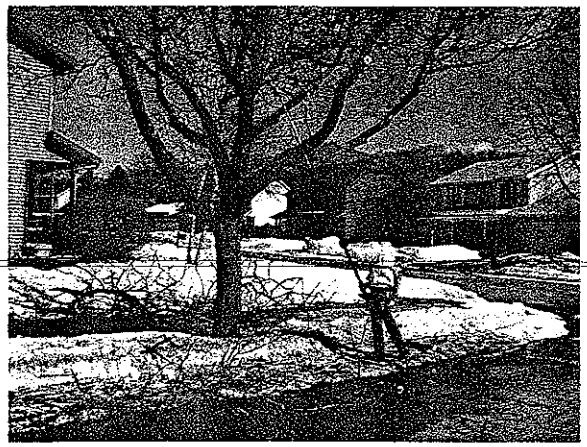
The Onalaska Street Department performs many regular tasks throughout the year while providing assistance to various other departments. The Street Department has nine full-time employees and 1 part-time employee to assist in various duties. In 2014 the Street Department assisted with demolition of existing buildings for a possible waterfront project along the Black River, removed existing asphalt pavement for the 2014 Paving project, worked closely with a general contractor for construction of a new salt storage shed at the Public Works Facility, performed all removals and grading for two new roads paved in the cemetery, and removed over 500 ash trees from City boulevards and parks to fight the spread of the Emerald Ash Bore. The following pages describe common Street Department activities done in 2014.

Snow/Ice Removal
From January-December 2014, the City of Onalaska received various snowfall events. Crews are often required to work overtime depending upon the timing of the event to ensure streets are cleared for peak traffic times. Street crews used 1,800 tons of salt, 220 tons of sand/salt, and 6,050 gallons of salt brine during 2014 for removal of snow/ice from city streets. The anti-icing system allows for the treatment of street surfaces prior to storm events and results in reductions of sand/salt usage during/after storms. With rapidly rising costs of salt due to shortages throughout the Midwest, crews make every effort to save on materials while not compromising the safety of the public. After enough snow accumulates, the department is required to perform night-time snow removal operations to remove the excess snow.

Cemetery
Approximately 1,800 man hours were dedicated to the cemetery in 2014 by the Street Department. 54 burials were conducted including 25 full grave openings. Other cemetery duties include staking for headstones (44), approval of headstones, appointments for grave sales, staking block corners, tree planting and trimming, grass mowing, refuse removal, and infrastructure maintenance and repair, which included repairs of two water leaks in 2014.

Mowing Route/Tree Removal/Trimming
Street crews performed tree trimming on 1,500 City-owned trees and hauled brush from approximately 315 locations throughout the City. Tree removals were performed on numerous occasions for the Parks and Planning/Zoning Departments. Crews performed monthly curbside brush pickup for residential properties. In all, over 83 tons of material were generated from tree removal/trimming/brush pick-up operations during 2014.

2014 saw the City start a program utilizing City staff to remove 1/3 of the ash trees on City right-of-way and parks. Ash tree removal utilized the entire Street Department staff for approximately three weeks in the fall of 2014.



Street crew trimming boulevard tree branches.

Street Department working in the cemetery.

Street Department

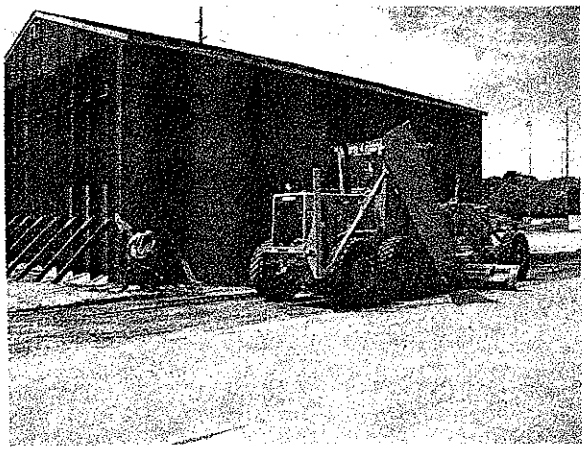
Traffic Signals & Street Signs
On 16 occasions, the Street Department repaired or serviced various traffic signals throughout the City. 174 street light outages were also serviced/repaired in 2014. Various traffic signs were replaced based upon age and condition throughout the City.

Pavement Markings
Pavement markings are renewed each year by street crews to enhance safety at intersections and the safety of the traveling public in general. Centerlines, lane lines, edge lines, turn lanes, arrow symbols, school symbols and crosswalks were renewed at various locations throughout 2014. Crews used over 180 gallons of paint to renew existing pavement markings.

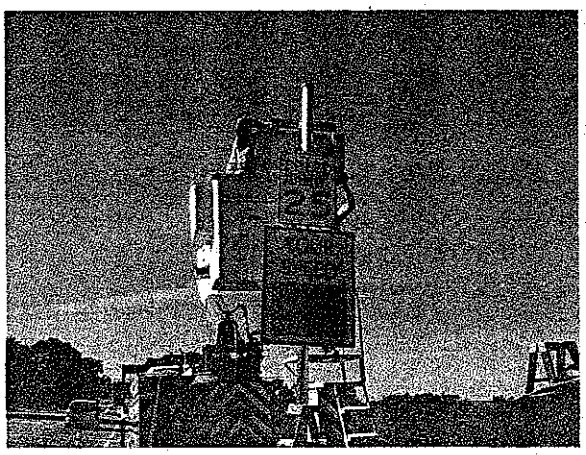
Street Sweeping
Beginning in March, crews began street sweeping operations and continued into December. Over 230 tons of material was collected in 2014 from street sweeping. In addition, street sweeping crews generated large amounts of leaves from sweeping operations in the months of October-December. Leaf refuse was hauled by City crews to a disposal site in Holmen.

Fleet Maintenance
The Street Department employs one mechanic to service and maintain all 127 City-owned vehicles and 50 miscellaneous pieces of equipment. In 2014, there were 615 services/repairs and numerous squad car/vehicle washings.

Street Opening Permits
There were 73 street openings monitored by the Street Department in 2014. Street openings are sometimes required for excavations, borings, and utility connections.



Street Department grading for new asphalt placement at the new Salt Storage Shed at the Public Works Facility.



Street Department installs a new speed limit sign that shows motorist their current speed.

Street Department

Transportation of Materials
For many of the tasks performed by the Street Department, bulk materials are often required consisting of one or more of the following: hot-mix asphalt, cold mix asphalt, crushed aggregate base, breaker run base, black dirt, clean sand, cold mix (patch mix) and miscellaneous fill. Crews are required to haul these materials using City dump trucks to the job site. The following quantities were used by the Street Department in 2014:

Hot Mix Asphalt - 141 tons
Black dirt – 180 cubic yards
Misc. fill - 110 cubic yards
Crushed Agg./breaker run - 940 tons
Clean sand - 130 cubic yards
Cold mix patch material - 25 tons

Civic Events
The Street Department assisted various departments/groups during 12 events in 2014. Some events included parades, run-walks, and festivals. Assistance provided included traffic control set-up and take down.

Miscellaneous Activities
The Street Department assisted in the 2014 Capital Projects in various capacities. Much of this assistance was provided to the Engineering Department. In addition, the Street Department provided over 1,200 man hours to other City of Onalaska departments and miscellaneous resident requests throughout 2014. Some of the miscellaneous activities provided to the other departments were leaf and trash pick-up, traffic counts, street and alley maintenance, parts ordering, community service programs, fabrication, concrete and bituminous asphalt repairs, voting, and on-call duties.

Storm Sewers & Storm Water Detention Areas
45 catch basins and manholes were repaired during 2014 which required follow-up work from the Street Department. Follow-up work includes street patching, placement of fill and black dirt, seeding & mulching, miscellaneous concrete work, traffic control set-up & take down, and street sweeping. The Street Department also maintained several outfalls throughout the year. Each of the City-maintained storm water detention ponds require maintenance each year including mowing, trimming and outlet repair/inspection. Crews also coordinated work with contractors to control spray for brush/trees at numerous pond locations.

Street Department demolishes an old building near the intersection of 2nd Ave and Main Street

Street Department removes existing pavement to help reduce construction costs for street paving projects.

Utility Department

The Onalaska Utility Department performs a wide variety of duties that ensure the City's utility infrastructure operates in a safe and efficient manner. The Utility Department maintains water distribution system with approximately 107 miles of water mains varying in size from 4-inch to 16-inch diameter, four potable water high capacity wells, five water storage reservoirs, and three booster stations. In addition, they manage a sanitary sewer system with over 86 miles of sanitary sewer mains ranging from 2-inch to 30-inch diameter, nine lift stations, siphon, and meter pit. The Utility Department continues to achieve recognition for having an outstanding system as given by the Wisconsin Department of Natural Resources and peers within the industry. The following describe some of the specific duties performed annually by the Utility Department.

Valve Maintenance

The City of Onalaska has over 1,390 distribution valves in operation throughout its water distribution system. The Public Service Commission requires the City to exercise each distribution valve every 2-5 years at a minimum. By routinely checking each valve, the system can be properly flushed and isolated, and therefore provide better quality water to City of Onalaska residents. This routine maintenance allows the City to keep a better inventory of these valves and replace faulty valves when necessary. In 2014, the Utility Department exercised 400 valves in the water distribution system. Additionally, the Utility Department is now required to operate fire hydrant valves every 5-7 years. Operation of hydrant valves was added to the yearly valve maintenance work and in 2014 the Utility Department operated 158 hydrant valves.

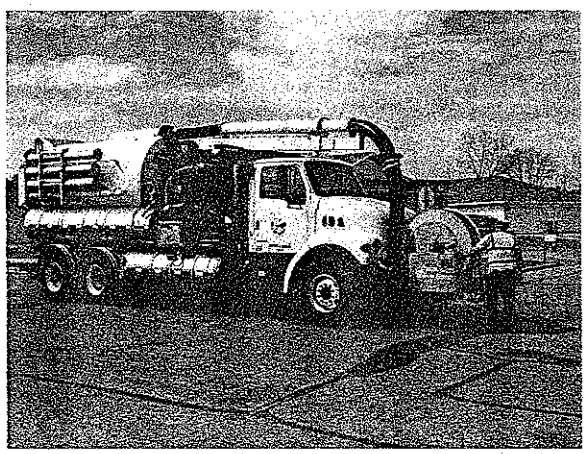
Water System Flushing

Regular flushing of each fire hydrant is required for preventative maintenance and water quality. The City of Onalaska flushed fire hydrants in the water system 1,001 times during 2014. Many of these hydrants are located on dead-ends, which require more frequent flushing. In addition to flushing hydrants for maintenance purposes, the Utility Department oversees flushing of new hydrants as developments are completed throughout the City.

Fire Hydrant Maintenance

The Utility Department regularly maintains its inventory of fire hydrants. Some maintenance duties include painting, replacement of worn parts, installing extensions, and full replacements. During 2014, 15 hydrants were rebuilt and 249 hydrants were painted.

Utility Department staff flush a fire hydrant with the use of a hydrant diffuser and takes a water sample.



Utility Department staff performs sewer cleaning.

Utility Department

Lab Testing

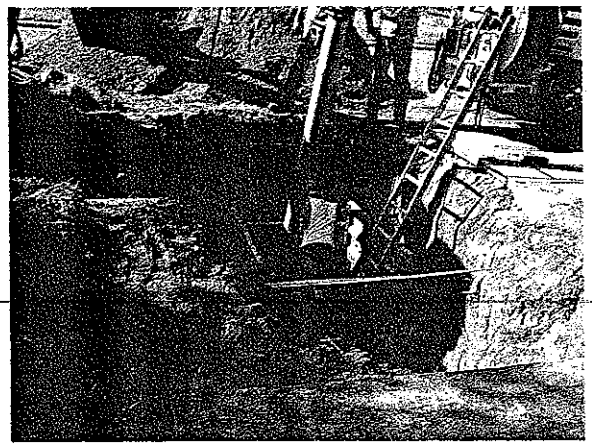
The City of Onalaska, as required by the Wisconsin Department of Natural Resources, performs frequent testing of the public water supply. A mandated Consumer Confidence Report (CCR) is compiled annually, detailing the source of the water, the types of treatment used, what contaminants have been found and at what levels. Lab functions also include the maintenance of all LMI pumps, chlorinators, chemical lines, check valves and ordering of the chemicals at well sites. The lab staff also handle all consumer complaints regarding water quality. The Utility Department performs a variety of mandated testing (results of which are outlined in the CCR) along with quality testing of the water system. The following were the responsibility of the Lab for 2014. The Utility was also required to perform 30 lead/copper compliance samples due to by the US EPA and WI DNR requirements.

- 20 State coliform bacteriological tests/month
- 9 bacteriological tests of new construction
- 12 State split fluoride samples
- 4 Quarters of Nitrate samples
- 4 TTHM samples (disinfection byproducts)
- 4 HAA5 samples (disinfection byproducts)
- 4 raw samples/quarter (Well sites)
- 30 Investigation / 30 Compliance Lead & copper samples (corrosion control)
- Fluoride, chlorine, phosphate, Fe, Mn, Temperature and hardness sampling daily
- Lab personnel also monitored 28 random sites as a proactive program each month
- Hydrant flushing for maintenance of the mains and better water quality
- Entry point sampling twice a week (wells)
- 4 Quarters of Inorganic and Volatile Organic sampling
- 4 Radioactivity (grab) samples
- EMOR (Electronic Monitoring Operating Report) each month of pumping and water quality data submitted to Wisconsin DNR

Utility Locates

The City of Onalaska is required by Digger's Hotline of Wisconsin to locate all water, sanitary sewer, and storm sewer lines within the City Right-of-Way when a locate is called in for any reason. In 2014, the Utility Department performed 2,640 requests for locates.

Crew member locating utility lines for a Diggers Hotline ticket.



Utility Department repairing a water main break.

Utility Department

Water Leaks
During 2014, the Utility Department responded to water main breaks and service leaks in 30 different locations. Main breaks require immediate response from Utility Department personnel as they result in emergency shut-offs and can occur at any time. Utility Department staff execute repairs in a timely and responsible manner.

The extreme cold winter in 2014 provided the Utility Department an additional task to deal with the freezing of water services and sewer laterals. Starting in January and continuing into late March the Utility handle 21 frozen services and laterals. The Utility used a variety of equipment and techniques, and various plumbing and welding contractor to thaw frozen services and laterals.

Utility Billing
The Utility Department Billing Administrator is responsible for water and sewer billing for over 6,200 customers read on a quarterly basis. In addition to regular billing reads the duties also include the following:

- Coordination and billing of final water reads for residents moving in/out of properties
- Responsible for tracking and maintaining private well data for approximately 100 residents
- Tracking/billing/coordination of hydrant meter rentals distributed for commercial and residential properties
- Provide statistical monthly reports to the WI DNR
- Provide financial and statistical information to City Finance Director
- Track information regarding bankruptcies/foreclosures as they pertain to City utility billing
- Started conversion of City Utility billing software to updated version

Cross Connection Inspections
The City of Onalaska performed 945 cross connection property inspections throughout the community in 2014. All residential inspections were performed by the Utility Department. Cross connection inspections are performed to ensure that no unwanted connections are present that may allow non-potable water (potentially contaminated) to infiltrate into the potable water (drinking water) supply. Utility staff found 123 potential hazards during inspections. Cross connection inspections are mandated by the Wisconsin Department of Natural Resources on a ten-year basis to ensure the safety of the drinking water.

Meter Program
In 2014, the Utility Department performed testing on 796 water meters throughout the system. After testing, any faulty meters were serviced and or repaired. Utility staff exchanged 788 meters and installed 81 new meters for recently built structures. Water meters vary in size from 5/8" to 4".

Utility staff performs monthly readings (all meters for maintenance), quarterly readings (all meters for billing), and weekly readings for finals (move in/move out). They also provide maintenance of stopped meters and faulty meters, and setup construction and hydrant meters.

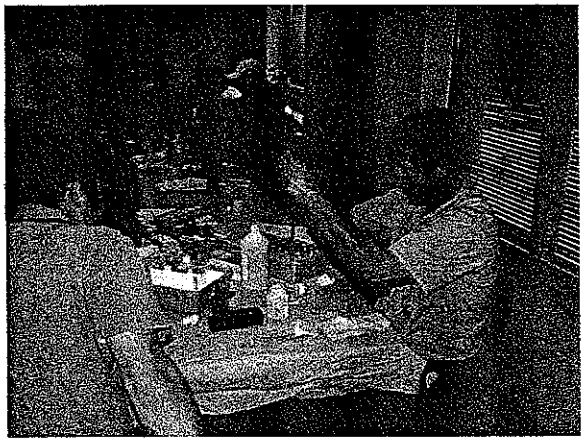
Repairs
During 2014, the Utility Department performed various repairs throughout the City's Storm, Sanitary and Water distribution systems. Throughout each construction season, aging manholes require repairs that can range from replacing worn adjusting rings to a complete remove/replacement. Utility staff also repairs and cleans water main valve box and curb box extensions.

Utility Department

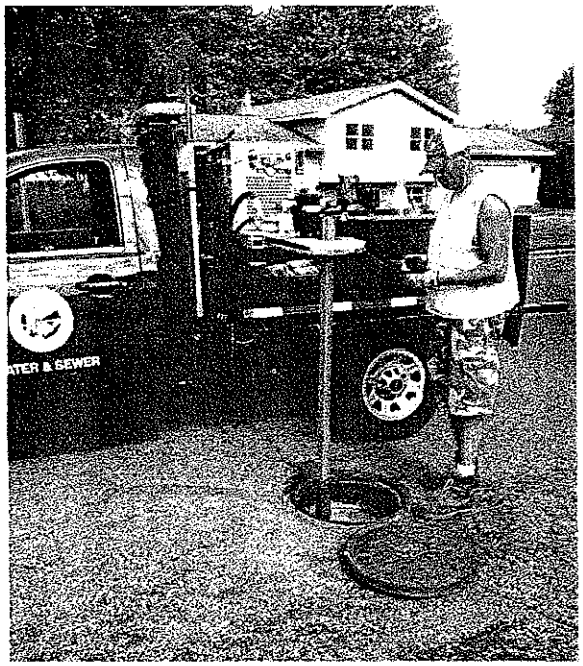
Sewer Cleaning/Inspections
The Utility Department used its televising equipment to inspect sewers in various locations throughout the City. All new construction and various problem areas are inspected and televised throughout the year. Sewer jetting (cleaning) was performed on 567 sewer mains throughout the City. Additionally, eight sanitary sewer lift stations and one storm sewer lift station are cleaned three times per year.

Additional Winter Duties
Additional duties during the winter months include assisting the Street Department in snow/ice removal. Typically, Utility Department personnel assist by removing snow and ice at City owned buildings and plowing the 103 cul-de-sacs located in the City of Onalaska. During 2014, the City continued to implement the use of rental wheel loaders equipped with plow blades to complete snow removal on cul-de-sacs. This has greatly improved the efficiency of cul-de-sac snow removal and helped to reduce resident complaints on this subject.

Training
Utility Department provided training to correctly take, handle, and analyze chlorine and fluoride samples in water distribution systems for 26 surrounding municipalities with a total of 84 water employees attending the training course in 2014.



Utility Department training for chlorine and fluoride sampling.



Utility Department exercising a water main valve for maintenance.

STAFF REVIEW SUMMARY

CITY OF ONALASKA
BOARD OF PUBLIC WORKS

March 3, 2015

Agenda Item: #18

Project/Item Name:	Compact track loader bid
Location:	Citywide
Requested Action:	Approval of bid
Staff Report/Description:	Two bids were received for the compact track loader. Staff is recommending the purchase of a Terex PT-75 from Titan Machinery in the amount of $71,550 with attachments.
Attachments:	Bid tabulation

BID OPENING
2015 COMPACT TRACK LOADER

Opening: Tuesday, February 24, 2015 @ 11:00 AM

	TITAN MACHINERY	FABCO CAT
MAKE/MODEL	TEREX PT-75 CTL	CAT 277-D MTL
BUCKET SIZE & CAPACITY	$ 68,800.00	$ 64,792.00
TRADE IN VALUE	$ 22,000.00	$ 9,000.00
OPTION A (TRACKS, RIMS, TIRES)	(- $2,000.00)	(- $1,000.00)
OPTION B (SWEEPSTER)	(- $1,000.00)	(- $1000.00)
OPTION C (TOWMASTER)	(- $2,000.00)	(- $1,750.00)
OPTION D (BUCKET)	$ 2,900.00	(- $1,000.00)
OPTION E (GRADING BOX)	$ 7,950.00	$ 8,225.00
OPTION F (GRAPPLE)	$ 3,200.00	$ 3,170.00
OPTION G (ASPHALT CUTTER)	Not Available	Not Available
OPTION H (TRAILER)	$ 4,700.00	$ 5,550.00
OPTION I (HAMMER & ACCESSORIES)	$13,900.00 W/ TRADE	$11,600.00 NO TRADE
TOTAL BID AMOUNT AFTER TRADE + OPTIONS	$ 74,540.00	$ 79,587.00
DELIVERY DATE	60 - 90 DAYS	03/15/2015

RECOMMEND AWARD TO: **TITAN MACHINERY - TEREX PT-75CTL**
INCLUDING TRADE AND OPTIONS A, B, C, E, F, G, H & I
TOTAL COST = $71,550.0

TEREX®

PT-75

COMPACT TRACK LOADER

Specifications

Operating weight	8972 lbs (4,070 kg)
Tipping load	6,200 lbs (2,812 kg)
Ground pressure	3.5 psi (0.25 kg/cm²)
Engine power	71 hp (53 kW)

Features

- Multi-level suspension for exceptional traction and operator comfort.
- Easy operation with pilot-operated joystick controls and comfortable operator station.
- Optional two-speed hydrostatic drive system offers fast travel speed and high torque work speed.
- Standard auxiliary hydraulics and hydraulic quick coupler attach easily to a wide range of industry-standard attachments.

WORKS FOR YOU.™

SPECIFICATIONS

OPERATING SPECIFICATIONS

Operating Weight	8972 lb (4070 kg)
Shipping Weight	8060 lb (3656 kg)
Ground Pressure @ Operating Weight	3.5 psi (24.1 kPa)
Tipping Load	6200 lb (2812 kg)
Operating Capacity 50% Tipping Load	3100 lb (1406 kg)
Operating Capacity 35% Tipping Load	2170 lb (984 kg)
Travel Speed Low Range	0-5.5 mph (8.8 kph)
Travel Speed High Range (with Two Speed Option)	0-10.5 mph (16.8 kph)

ENGINE

Type	Diesel 4-cylinder turbocharged
Model	Perkins 804C-33T
Displacement	202 in³ (3.3 L)
Gross Power Rating @ 2800 rpm	71 hp (53 kW)
Torque Peak	178.5 lb-ft (242 Nm)
Cooling System	Engine-driven fan and coolant/anti-freeze-filled radiator
Engine Block Heater	Standard AC plug-in type
Intake Air Cleaner	Dual stage
Emission Controls	Meets all U.S. EPA interim tier 4 standards

UNDERCARRIAGE

Track Type: General purpose track constructed of rubber compound with embedded co-polymer cords and all-purpose treads. Three rows of track drive lugs molded in. Turf Track with smooth tread available as an option.

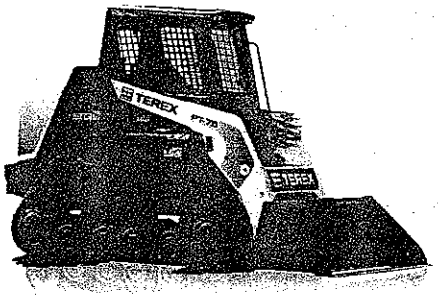
Track Width	Standard - 18 in (457 mm) Optional - 20 in (508 mm)
Length of Track On Ground	71 in (1803 mm)
Ground Contact Area	2556 in² (1.65 m²)
Ground Contact Area Optional Track	2840 in² (1.83 m²)
Drive System	Two hydrostatic direct drive sprockets controlled by a single joystick
Track Drive Sprocket	Elevated with low friction replaceable sprocket rollers
Undercarriage Suspension	Two independent torsion axles per undercarriage

Roller Wheels: 24 high-density polyurethane and rubber wheels per track. Wheel bearings protected by metal-faced seals.

Roller Wheel Diameter	Front wheels - 15 in (381 mm) Other wheels - 10 in (254 mm)

SERVICE CAPACITIES

Fuel Tank	18 gal (68 L)
Hydraulic Tank	21 gal (79 L)
Engine Coolant/Antifreeze	3 gal (12 L)
Engine Oil Including Filter	9 quarts (8.52 L)



AUXILIARY HYDRAULIC SYSTEM

Pump capacity	Low: Variable from 0-17.4 gpm (65.9 lpm) High: 30 gpm (113.6 lpm)
System pressure, max.	3,000 psi (20 670 kPa)
Controls	Intermittent via joystick button or continuous via console switch, mode selectable via dash-mounted switch
Couplers	Push-to-connect quick couplers mounted on loader arms. Pressure relief valve mounted to coupler block.
Cooling system	High efficiency side-by-side radiator and oil cooler

ELECTRICAL SYSTEM

Nominal charge	12 V
Battery	950 CCA
Charging system	90 amp alternator
Outlets	1-12 V port inside operator station
Wiring	Pre-wired for all factory-available accessories

OPERATOR STATION

Seat: Adjustable contour vinyl seat with built-in operator presence switch and 3-inch (76 mm) wide seat belt.

Loader Control: Right-hand pilot hydraulic joystick controls loader lift/lower and tilt, plus intermittent control of auxiliary hydraulic.

Drive Control: Left-hand pilot hydraulic joystick controls machine speed and direction.

Engine Speed	Foot pedal
Indicators/Gauges	Engine Oil Low-Pressure Light Hydraulic Oil High-Temperature Light Engine High-Temperature Light Low Battery Voltage Light Tachometer Hour Meter Fuel Gauge
ROPS	Meets SAE J1040 MAY94, ISO 3471:1994
FOPS	Meets SAE J1043 SEPT87, ISO 3449:1992
Illumination	4 - Fixed forward-facing halogen lights 1 - Adjustable rear-facing halogen light 1 - Interior light
Convenience	12 V power port

TEREX®

BOARD OF PUBLIC WORKS
MONTHLY ESTIMATES
March 3, 2015

Contractor	Original Contract Amount	Change Orders	Paid to Date	Due this Estimate
1. **STRAND ASSOCIATES** Well #9 - Reconstruct/Filter Design Estimate #6	$ 132,700.00	$ 19,800.00	$ 148,330.00	$ 3,550.00
2. **STRAND ASSOCIATES** South Kinney Coulee Lift Station Updated Design Estimate #1	$ 10,000.00	$ -	$ -	$ 3,408.99