

AGENDA

Unless specifically noticed otherwise, this meeting and all other meetings of this body are open to the public. Proper notice has been posted and given to the media in accordance with Wisconsin Statutes so that citizens may be aware of the time, place and purpose of the meeting.

MEETING NOTICE

BOARD OF PUBLIC WORKS

Monday, February 4th, 2019

4:30 p.m.

Council Chamber, New London Municipal Building

1. Call meeting to order, Adopt Agenda
2. Director's Memo
3. Wastewater Treatment Plant Updates
4. Public Hearing at 4:35pm to take comments on an amendment to levy special assessments for sanitary lateral installation on Starlight Drive
5. Recommend to council an amendment to the Final Resolution for special assessments for sanitary lateral installation on Starlight Drive
6. Consider and act on a request for additional street lighting on Klatt Road
7. Review bid tab and recommend to award the WWTP Digester & Waste Receiving Station contract to August Winters & Sons in the amount of \$4,378,357.
8. Approve an Engineering Services Agreement with Donohue & Associates, Inc. in the amount of \$254,747 for construction related services for the WWTP Digester & Waste Receiving Station project.
9. Review of the upcoming Cedar Street & North Ridge Drive reconstruction plan
10. Other Matters & Updates
11. Next Month Agenda Items
12. Adjournment

**Mike Barrington, Chairman
Board of Public Works**

Agenda items are listed so as to accurately describe the actions or issue being considered instead of simply the document listing title or the parties to a contract. This is done as such titles or a list of parties to a contract conveys insufficient information to the public on whether a topic or project they are interested in is being considered. It is the policy of the City of New London to comply in good faith with all applicable regulations, guidelines, etc. put forth in the American with Disabilities Act (ADA). To that end, it is the City's intent to provide equal opportunity for everyone to participate in all programs and/or services offered, to attend every public meeting scheduled, and to utilize all public facilities available. Any person(s) in need of an alternative format (i.e. larger print, audio tapes, Braille, readers, interpreters, amplifiers, transcript) regarding information disseminated by the City of New London should notify the City 48 hours prior to a meeting, etc., or allow 48 hours after a request for a copy of brochures, notices, etc. for delivery of that alternative format. Contact ADA Co-Coordinator Paul Hanlon or Chad Hoerth by telephone through: (Relay Wisconsin) – or 920/982-8500 and in person/letter at 215 N. Shawano Street, New London, WI 54961.

Memorandum

To: Board of Public Works

From: Chad Hoerth, Director of Public Services

Date: 1-3-19

Re: January 7th, 2019 Board of Public Works Meeting

- Wastewater Treatment Plant Update – Ben’s report is included in your packet.
- Public Hearing at 4:35pm to take comments on an amendment to levy special assessments for sanitary lateral installation on Starlight Drive- If you recall at the December Board of Public Works meeting, we discussed amending the special assessment cost for sanitary lateral installation from \$35.00 per lineal foot to the true cost of \$53.42 per lineal foot for the Starlight Drive project. The first step to amend the original “final resolution” is to hold a public hearing. We’ll hold the public hearing at the Board meeting to allow us time to adjust the final resolution (if necessary) before it’s sent to council.
- Recommend to council an amendment to the Final Resolution for special assessments for sanitary lateral installation on Starlight Drive- The next step to amend the assessment cost to \$53.42 per lineal foot is to forward the attached (amended) Final Resolution to the council for approval (that is if the Board has no changes following the public hearing).
 - *Possible/Recommended Motion: I make a motion that city council considers approving the proposed final resolution amending the sanitary sewer lateral assessment cost for the 2017 Starlight Drive construction project from \$35.00 per lineal foot to \$53.42 per lineal foot.*
- Consider and act on a request for additional street lighting on Klatt Road- Enclosed is a request from the school district to continue street lighting down Klatt road to the High School’s east entrance. From my understanding it sounds like the request and need is more for pedestrian lighting on the school’s trail rather than street lighting along Klatt road. If that is the case, the question should be if the city has any obligation to light the school’s trail or if lighting down the street is truly needed. Joe Marquardt from the School District will be present at the meeting to answer questions on his request.
- Review bid tab and recommend to award the WWTP Digester & Waste Receiving Station contract to August Winters & Sons in the amount of \$4,378,357- In your packet you will find a letter of recommendation from our engineer along with the bid tabulation for the WWTP Digester and Waste Receiving Station project which were opened on January 15th, 2019. Our engineer is recommending awarding the contract to the low bidder, August Winters, in the amount of \$4,378,357. Keep in mind this bid cost does not include contingency or engineering

(which we will talk about next). Factoring in those other costs the anticipated budget for the project is:

Low bid construction contract:	\$4,378,357
Proposed Engineering/Construction Admin:	\$ 254,747
<u>Contingency (5%)</u>	<u>\$ 218,915</u>
Total project budget	\$4,852,019

- *Possible/Recommended Motion: I make a motion that city council considers awarding a contract to August Winters in the amount of \$4,378,357 for the Waste Water Treatment Plant Digester and Waste Receiving Station Project.*

- Approve an Engineering Services Agreement with Donohue & Associates, Inc. in the amount of \$254,747 for construction related services for the WWTP Digester & Waste Receiving Station project. The other part of the WWTP project includes hiring the engineer for Construction Administration services for the project. Enclosed in your packet is a copy of the contract amendment which would hire Donohue & Associates for this phase.
 - *Possible/Recommended Motion: I make a motion that city council considers approving the amendment to the existing Donohue & Associates agreement in the amount of \$254,747 for construction administration services for the Waste Water Treatment Plant Digester & Waste Receiving Station project.*

- Review of upcoming Cedar Street & North Ridge Drive reconstruction plan- Don, Ben, Steve and I met with our engineer from McMahon's on January 29th. Enclosed in your packet are the initial mark ups for the project. As of this time based on the engineers survey of the existing conditions, we should not be looking at a full reconstruction of the utilities, but rather spot repair of some identified issues (broken storm sewer leads, replacement of some of the storm sewer inlets, replacement of some of the manhole covers, spot curb replacement, etc.). One item I want to have a little discussion on is the consideration of adding storm sewer laterals to properties along the project route. This would be a proactive start in providing properties the best way to discharge their sump pump water, rather than into the street or the sanitary sewer system. If we do that we'll have to look at completing the assessment process to charge property owners for the cost of the storm laterals. At this time our engineer feels that an assessment cost (for work in the right of way only) would be about \$1,200 per property. We could set that up on a payment plan similar to how the sanitary laterals were assessed on Division Street. We're looking to bid the project out in the next few weeks with a bid opening in mid-March.

Other Matters & Updates

- High Street and Industrial Loop Road Rail Road Improvements – We had a conference call with the CN rep on Thursday January 31st. Our initial plan was to install concrete on Industrial Loop road to match the street on both sides of the R.R. R-O-W. We found out that it's CN's policy to ONLY have asphalt approaches to their rails, so they will unfortunately be improved and replaced as asphalt. Our engineer is working on the designs based on our conversation and

we're probably going to look at bidding out the Cedar/Northridge project with these RR projects (as one bid contract).

- Klatt Road Sanitary Sewer and Water Extension- The preliminary plans have been created and we're waiting on the soil boring results. Unfortunately the geotechnical company tried to perform the borings on Friday January 25th and their equipment froze up. This past week was not any better, so we're waiting for the weather to warm up a bit so they can continue.
- Joe Kosmerchock (Street Operator) has provided notice of his retirement in March. We have decided to perform an internal posting first for the replacement as we have had some interest within for the job. If that doesn't pan out we'll be looking at an external posting.

Other Matters & Updates/Director's Report

- Years of Service Report:
 - Joe Kosmerchock completed 43 years of service on January 22nd

February 4th Board of Public Works Meeting

Wastewater Notes

January 15th was the bid opening for the digester reconstruction. August Winter was the lowest bid. Chad has included in this packet the bid tabulation and Letter of Recommendation from Donohue.

We are starting interviews for the Wastewater Operator II position this week. There were 13 candidates and 7 of them met the criteria for an interview. We should be done interviewing on Thursday the 7th.

The ferric chloride piping replacement done by August Winter went better than expected and is working well.

The State Lab of Hygiene Proficiency Testing that the DNR uses to make sure all wastewater laboratories are getting the same results was completed last week and submitted for review. We will find out the results on the 15th to see if we passed.

I have finished the annual Emergency Management application for the hazardous chemicals that are located on the treatment facility grounds.

At the January meeting we discussed the proposed Total Maximum Daily Load (TMDL) for phosphorus that the DNR is sending to the EPA for approval. During the meeting we discussed a Resolution from the City to state that we oppose the limits. A resolution would not have been passed in time for the public comments portion of the TMDL so I drafted a letter that was sent to the DNR by the January 18th deadline for public comment. It is in this packet for your read. We do not know for sure if the EPA is going to accept this proposal or if they will say it isn't strict enough. We will probably find out some time next year.

Wohlt Cheese							
Month	Flow	BOD		TSS		Phos.	
	gals	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	10307	1021	102	666	66	34.7	3.3
Feb							
Mar							
April							
May							
June							
July							
Aug							
Sept							
Oct							
Nov							
Dec							
Ave	10307	1021	102	666	66	34.7	3.3
Max	10307	1021	102	666	66	34.7	3.3
Min	10307	1021	102	666	66	34.7	3.3

Influent							
Month	Flow	BOD		TSS		Phos.	
	mgd	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	1.0427	206	1921	239	2220	4.5	43.6
Feb							
Mar							
April							
May							
June							
July							
Aug							
Sept							
Oct							
Nov							
Dec							
Ave	1.0427	206	1921	239	2220	4.5	43.6
Max	1.0427	206	1921	239	2220	4.5	43.6
Min	1.0427	206	1921	239	2220	4.5	43.6

Effluent							
Month	Flow	BOD		TSS		Phos.	
	mgd	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	1.1869	2	26	4	39	0.3	2.7
Feb							
Mar							
April							
May							
June							
July							
Aug							
Sept							
Oct							
Nov							
Dec							
Ave	1.1869	2	26	4	39	0.3	2.7
Max	1.1869	2	26	4	39	0.3	2.7
Min	1.1869	2	26	4	39	0.3	2.7
Limit:		25		30		1.0	

Utility							
Month	Rain	Super-natent	Ferric	Methane	Natural Gas	Water	Electricity
	in.	gal	gal	ft ³	ft ³	gal	
Jan	0.12	10,037	89	43	44	774	
Feb							
Mar							
April							
May							
June							
July							
Aug							
Sept							
Oct							
Nov							
Dec							
Ave	0.12	10,037	89	43	44	774	
Max	0.12	10,037	89	43	44	774	0
Min	0.12	10,037	89	43	44	774	0

Hauled Waste		
Month	Holding	Septic
	Total gals	Total gals
Jan	723,050	62,250
Feb		
Mar		
April		
May		
June		
July		
Aug		
Sept		
Oct		
Nov		
Dec		
Total:	723,050	62,250
\$/gal	0.00875	0.02000
Total:	\$6,326.69	\$1,245.00

Mercury		
Quarterly	Inf	Eff
	ug/L	ug/L
Jan		
Feb		
Mar		
April		
May		
June		
July		
Aug		
Sept		
Oct		
Nov		
Dec		
Max	0.00	0.00
Min	0.00	0.00
Limit:		1.30

Ammonia	
Month	mg/L
Jan	<.14
Feb	
Mar	
April	
May	
June	
July	
Aug	
Sept	
Oct	
Nov	
Dec	

Whole Effluent Toxicity
Pass

Fecal Coliform	
Month	
May	
June	
July	
Aug	
Sept	
Limit	400

New London Wastewater Treatment Facility
215 N. Shawano St.
New London, WI 54961

January 18th, 2019

Keith A. Marquardt
Wisconsin Department of Natural Resources
625 E County Road Y, Suite 700
Oshkosh WI 54901



Hello Mr. Marquardt,

This letter is in regards to the proposed Total Phosphorus TMDL that was released for public comment on November 30th 2018. I had brought this subject to the New London Board of Public Works at the January meeting held on January 7th 2019 to describe your findings and to address how this proposed ruling will affect the treatment facility's future discharge. The Board felt the proposed limits are restrictive and do not address the major contributors to the Total Suspended Solids and Total Phosphorus loadings to the Wolf River watershed. The following comments address the concerns of the City regarding the proposed Total Maximum Daily Load (TMDL).

During the Public Hearing on December 15th 2018, it was stated that a 73% reduction in phosphorus loadings from all sources in the Fox / Wolf River watershed basin over the course of 75 years will bring the total phosphorus concentration down to 0.040 mg/L in Lake Winnebago and the pool lakes. Using Figure 15 on page 69 in the Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids – Upper Fox and Wolf Basins – Public Hearing Draft, November 30th 2018, only 11% of the total phosphorus loading from the Wolf River basin is from wastewater treatment facilities. A 73% reduction from wastewater treatment facilities would result in 8% removal of the total phosphorus loading. This still leaves 66% of the total phosphorus loadings coming from non-point agricultural contributors. If it is known that two thirds of total phosphorus is coming from these areas, shouldn't this be the main focus of the TMDL? Other than Concentrated Animal Feed Operations (CAFO), the proposed TMDL outlines reductions in other agricultural activities but appear to only be recommendations of best management practices and not limits for the property owners in which the pollution comes from. Whenever we request fields for sludge application, the DNR provides maps with setbacks and other information in a matter of hours. With today's GIS programs and other technology why isn't the DNR, counties or townships pinpointing and enforcing problem areas in their portion of the watershed?

Section 7.3.10 and 7.3.11 on page 101 of the draft TMDL outline options to which municipalities can pay for and manage the non-point sources in their vicinity to reduce the burden of their permit level. Due to the lower Median Household Income for the City of New London it would be irresponsible to require rate payers to pay more for sewerage services that are not utilized in the community. New London does not have the manpower to implement, oversee and enforce best management practices for farms in the same watershed as the City. If New London were to undertake land management of a farm that does not utilize a nutrient management program, there is no guarantee that the City will receive long term credits for total phosphorus during the course of a 5 year permit. This is especially true if the river or tributary has many farms where no nutrient management program is followed and nutrient pollution is significant.

The economic impact on the rate payers for having to refurbish the treatment facility to meet lower limits on total phosphorus will total roughly four to five million dollars. This would be an additional \$5.00 - \$7.00 per thousand gallons of water used. A large percentage of our community is already struggling to pay their utility bills. As stated in Section 7.3 on page 105 of the proposed TMDL, there are many avenues in which non-point dischargers can get economic assistance without relying on funding from treatment facilities. These agricultural based programs would have better phosphorus reduction results per dollar spent than improvements at the treatment facility.

The proposed TMDL could eliminate much needed revenue for the City. Future growth in New London's industrial parks could be stifled if corporations have to pay higher sewerage costs or limit their ability to discharge due to phosphorus loading caps. This exacerbates the Median Household Income issue stated earlier where good paying jobs would not come to the area.

In the past the New London Wastewater Treatment Facility has been proactive in taking in contaminated water from environmental issues. In 2017 a farmer spread manure on a field with a significant slope during the winter. A January thaw caused snow to melt and liquid manure flowed into a tributary and up to wells at neighboring houses. We took in thousands of gallons free of charge to help out. After the Blizzard of 2018 we took in almost 4,000,000 gallons of pond waste from a local food processor to prevent them from discharging untreated waste into a river. Does the DNR have a plan to forgive treatment facilities if they violate the permit while rendering aid during an environmental crisis? If not, the proposed TMDL could be restrictive to the point we would have to deny aid rather than pay fines for being a Good Samaritan.

Lastly a question on how penalties are quantified. The 2022 WPDES Permit will surely outline the penalties regarding excessive discharge for New London's outfall but there is some confusion as to how the Department will determine a violation.

In the current monthly Discharge Monitoring Report (DMR) forms there are columns for Daily Maximum, Daily Minimum, Weekly Averages and Monthly Averages. According to *Appendix H Total Phosphorus Allocation Table 3*, New London will be allocated 2.8 pounds of total phosphorus per day or 1,038 pounds per year. What parameter will the violation be determined? Daily, Monthly or Annual? In 2017 the New London Wastewater Treatment Facility had effluent phosphorus discharges where some months the daily average and monthly average for pounds generated exceeded 2.8 pounds per day. The pounds of phosphorus charged on the **NR101 Wastewater Fee** for 2017 was 941.3 pounds for the year. This is 96.7 pounds less than what the proposed allocation is. Would any violations be levied against the Facility?

Thank you for your time and I look forward to your response. If you have any questions please do not hesitate to contact me.

Regards,



Gary Henke, Mayor
City of New London

FINAL RESOLUTION
AUTHORIZING AN AMENDMENT ON
IMPROVEMENTS AND LEVYING
SPECIAL ASSESSMENTS
AGAINST BENEFITTED PROPERTY

RESOLUTION NO. _____

WHEREAS, a public hearing was held for the City of New London, Waupaca-Outagamie Counties, Wisconsin, in the Council Chambers of the Municipal Building at 4:35 P.M. on February 4th, 2019 for the purpose of hearing all interested persons concerning the Preliminary Resolution and Report of the Director of Public Services for reconstruction of sanitary laterals within the rights-of-way of all property fronting upon the following streets:

SANITARY LATERAL REHABILITATION:

All property fronting upon both sides of Starlight Drive from the intersection of North Star Court to the intersection of Klatt Road.

NOW, THEREFORE, BE IT RESOLVED, by the Common Council of the City of New London, Waupaca-Outagamie Counties, Wisconsin, as follows:

1. That after review of the improvements, the final costs varied materially from the estimates and that the New London City Council is amending the Final Assessment Resolution 1333, passed on March 14th, 2017.
2. That the Report of the Director of Public Services pertaining to the construction of the above described improvements, including final plans and specifications therefore, is hereby adopted and approved.
3. That the Board of Public Works is authorized and/or directed to carry out the work of such improvement in accordance with the Report of the Director of Public Services.
4. That payment for said improvements be made by assessing the cost to the property benefited as indicated in said Report.
5. That the assessments shown on said Report are corrected costs and have been determined on a reasonable basis and are hereby confirmed.
6. That the assessments for all projects included in said Report are hereby combined as single assessment, but any interested property owner shall be entitled to object to any assessment separately or all assessments jointly for any purpose or purposes.
7. That the assessments may be paid in cash in ten (10) annual installments to the City Treasurer, deferred payments to bear interest at the rate of 1% per annum on the unpaid balance. Installments or assessments not paid when due, shall bear additional interest on the amount due at the rate of 1% per annum.

8. The City Clerk is directed to publish this Resolution as a Class I Notice in the official newspaper.
9. The City Clerk is further directed to mail a copy of this amended Resolution and a statement of final assessment against this property to every property owner whose name appears on the assessment roll whose post office address is known or can with reasonable diligence be ascertained.

Adopted this 12th day of February, 2019

Published _____

Dave Morak, Council President

Attest:

Jackie Beyer, Clerk



School District of New London

DISTRICT ADMINISTRATION OFFICE

901 West Washington Street
New London, WI 54961

Phone (920) 982-8530
Fax (920) 982-8551

Dennis Krueger, District Administrator
Danielle Sievert, Director of Teaching and Learning
Laurie Schmidt, Director of Pupil Services
Joseph Marquardt, Director of Business Services

dkrueger@newlondon.k12.wi.us
dsievert@newlondon.k12.wi.us
lschmidt@newlondon.k12.wi.us
jmarquar@newlondon.k12.wi.us

January 18, 2019

City of New London
Attn: Chad Hoerth, Director of Public Services
215 N. Shawano St
New London, WI 54961

Re: Letter to Board of Public Works – Street Lighting on Klatt Road

Dear Chad and Board:

On behalf of the school district, we request that the Board of Public Works consider lighting the roadway on Klatt Road coming down (west) from W off of Cedarhurst Drive and County HWY W to the high school entrance across from Starlight Drive.

We have families, students and pedestrians that walk through that intersection and then onto our walking path on a regular basis. At night, this can be an especially dangerous area because it can be hard to see. We sincerely appreciate the pole light that was installed this past fall on the corner. With the potential development, the area will only get busier and I feel that lighting is a proactive measure at this time.

Below you can see a Google view of this area along Klatt I am referencing. I will plan to attend the meeting in February to answer any questions and support our request on behalf of the school district.



Please contact me if you have questions before the meeting at 920-982-8530 or jmarquar@newlondon.k12.wi.us

Sincerely,

Joseph Marquardt
Director of Business Services



Donohue & Associates, Inc.
3311 Weeden Creek Road | Sheboygan, WI 53081
920.208.0296 | donohue-associates.com

January 21, 2019

Chad Hoerth
City of New London
Director of Public Services
215 N. Shawano St.
New London, WI 54961

Re: Wastewater Treatment Facility Digestion Improvements
Bidding Letter of Recommendation

Dear Chad:

Pursuant to the Official Notice to Bidders, sealed bids for the above referenced projects were received at the New London Municipal Building on January 15, 2019 at 11:00 a.m. and publicly opened and read aloud. We have reviewed all the Bids received for the Work and have enclosed a copy of the Bid Tabulation for your information.

Of the four prequalified bidders, three sealed bids were received from August Winter & Sons, JF Ahern, and Staab Construction. The apparent low bidder was August Winter; however, their bid does contain a small mathematical error in the Unit Price Schedule. The Total of All Bid Prices is written as \$3,380,500 but adding items 1-7 together results in a total of \$3,380,557. Article 14.01.C. of the Instructions to Bidders states that "discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum." The corrected \$3,380,557 amount must be used in determining the low bidder. The low bidder for this project is determined by lowest sum of the Total Bid Price in the Unit Price Schedule plus the cost of Alternate 1 – HSW System.

The total low bid for project was submitted by August Winters & Sons, in the amount of \$4,378,357. JF Ahern submitted a total bid price of \$4,380,000 and Staab a total price of \$4,687,000. Donohue's final design estimate of probable construction costs was \$4,560,000 with an expected range from \$4.2 to \$4.8 million.

It is our opinion that the low Bidder submitted a responsive bid and is qualified and capable of performing the Work as specified. It is therefore recommended that construction contract be awarded to August Winters & Sons for the price of \$3,380,557 plus the cost of Alternate 1 should the City accept it. Accepting Alternate 1 would increase the project cost \$997,800 to a total of \$4,378,357. Alternate 1 was included in the project as a possible cost savings measure so that the minimum essential work on the digesters could still proceed if bids came in over budget. With the bids coming in within budget, and the cost of the alternate also priced as expected, we recommend accepting Alternate 1.

Please note, the Base Bid (Type II) Material Equipment Schedule included on the project Bid Form (attached) allows the City to select alternate manufacturers for several pieces of equipment, potentially impacting the contract price. The Contractor will supply the "A" manufacturer unless the City selects one of the alternate suppliers within 30 days of signing the construction contract. If an alternate supplier is selected a change order will be processed reflecting the difference in installed cost between the "A"

supplier and the selected alternate supplier. Prior to this deadline Donohue will discuss the "B and C" manufacturer options with the City.

We respectfully present these recommendations for the City's review and consideration. Award of the contract should be made by Resolution followed by official notification to the successful bidder. We will be pleased to answer any questions concerning the recommendations set forth herein.

Sincerely,



Aric Bergstrom, PE
Project Manager

Enclosures: Bid Tabulation

Copy: Eric Lynne, Donohue & Associates, Inc.

**City of New London
Wastewater Treatment Facility
Digestion Improvements
Bid Tabulation**

Bids Opened January 15, 2019, 11:00 a.m.

Item	Bidder	Bidder	Bidder	Engineer's Est.
Bidder Name	August Winter	JF Ahern	Staab	
Prequalification Received	Yes	Yes	Yes	
Addendum 1 - 4 Acknowledged	Yes	Yes	Yes	
Bid Security Present	Yes	Yes	Yes	
Sub-Contractor Listing	Yes	Yes	Yes	
Material and Equipment Schedule	Yes	Yes	Yes	
Total Base Bid Price	\$3,380,557	\$3,323,000	\$3,724,000	
Alternate 1 - HSW System	\$997,800	\$1,057,000	\$963,000	
Total	\$4,378,357	\$4,380,000	\$4,687,000	\$4,560,000

BASE BID (TYPE I) MATERIAL AND EQUIPMENT SCHEDULE			
Specification Section	Item	Supplier	Amount To Be Deducted From Bid Price
11314	Recessed Impeller Centrifugal Sludge Pumping Equipment	(A) Wemco	
		(B) Hayward Gordon	
		(C) Fairbanks Nijhuis	
		(substitute)	
11318	Rotary Lobe Pumping Equipment	(A) Vogelsang	
		(B) Boerger	
		(C) Netzch	
		(substitute)	
11318 and 11390	Biogas Safety Equipment and Waste Gas Burner	(A) Varec Biogas	
		(B) Groth Corporation	
		(C) Shand & Jurs	
		(substitute)	
13400	Process Control and Instrumentation	(A) Energenecs	
		(B) B&M Technical Services	
		(C) Integrated Process Solutions	
		(substitute)	

BASE BID (TYPE II) MATERIAL AND EQUIPMENT SCHEDULE				
Spec Section	Item	Supplier	Supplier's Price	Installed Cost
11280	Water Booster Pump Systems	(A) Grundfos	\$ 40,000	\$ 42,000
		(B) Bell and Gossett	\$ 47,000	\$ 49,000
		(substitute)	\$	\$
11335	High Strength Waste Receiving Station	(A) Enviro-Care, Inc.	\$ 159,000	\$ 165,000
		(B) Huber Technologies, Inc.	\$ 162,000	\$ 168,000
		(substitute)	\$	\$
11381	Submersible Mixing Equipment	(A) Flygt	\$ 19,500	\$ 21,000
		(B) Landia	\$ no bid	\$ no bid
		(C) KSB	\$ no bid	\$ no bid
		(substitute)	\$	\$

AMENDMENT NO. 1 to
ENGINEERING SERVICES AGREEMENT
Design of Digester Improvements (Project)
Original Agreement Executed March 19, 2018

This Amendment is by and between:

City of New London (Owner)
215 N. Shawano Street
New London, WI 54961

and

Donohue & Associates, Inc. (Donohue)
3311 Weeden Creek Road
Sheboygan, WI 53081

Who agree to amend the original Agreement, as follows:

PART I – B. SCOPE OF SERVICES

The services have been modified to include the following additional activities:

1. Construction Related Services (CRS):

Upon award of a construction contract by the Owner, Donohue shall provide the following construction related services for the project:

- a. *General Administration of Construction Contract.* Consult with Owner and act as Owner's representative as Engineer provided for in the Standard Terms and Conditions (STC) of the Contract Documents as included in the Project Manual. The extent and limitations of the duties, responsibilities and authority of Engineer as assigned in said STC shall not be modified, except as Engineer and Owner may otherwise agree in writing.
- b. *Conformed to Contract Documents.* Develop an unofficial set of documents denoted as Conformed to Contract documents inclusive of bid plans and specifications, all addenda, and selected alternatives. Provide digital copies to Engineer, Owner, and Contractor for use throughout construction.
- c. *Pre-Construction Conference and Progress Meetings.* Attend and conduct a Pre-Construction Conference for the project prior to commencement of Work at the project site. Also attend twelve monthly construction progress meetings, conducted by the Contractor, for the project. Engineer to prepare and distribute minutes for Pre-Construction Conference and Contractor shall prepare and distribute all monthly progress meeting minutes.

- d. *Visits to Site and Observation of Construction.* Perform the following services in connection with observations of Contractor's work in progress for the project:
- i) Provide part-time construction observation services to document and monitor construction activities. Make visits to the Site at intervals appropriate to the various stages of construction, as Engineer deems necessary, in order to observe as an experienced and qualified design professional the progress and quality of the Work. Such visits and observations by Engineer and the Resident Project Representative are not intended to be exhaustive or to extend to every aspect of a Contractor's work in progress or to involve detailed inspections of a Contractor's work in progress beyond the responsibilities specifically assigned to Engineer in this Agreement and the Contract Documents, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the Work based on Engineer's exercise of professional judgment as assisted by the Resident Project Representative. Based on information obtained during such visits and such observations, Engineer will determine in general if a Contractor's work is proceeding in accordance with the Contract Documents, and Engineer shall keep Owner informed of the progress of the Work.
 - ii) The purpose of Engineer's visits to, and representation by the part-time Resident Project Representative at the project site, will be to enable Engineer to better carry out the duties and responsibilities assigned to and undertaken by Engineer during the Construction Phase. Engineer shall not, during such visits or as a result of such observations of a Contractor's work in progress, supervise, direct, or have control over a Contractor's work, nor shall Engineer have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected by a Contractor, for safety precautions and programs incident to a Contractor's work, or for any failure of a Contractor to comply with Laws and Regulations applicable to Contractor's furnishing and performing the Work. Accordingly, Engineer neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform its work in accordance with the Contract Documents. The Engineer shall provide up to 384 hours of on-site observation (48 visits of 8-hours/visit) for periodic review of project status and quality.
- e. *Defective Work.* Recommend to the Owner that a Contractor's work be disapproved and rejected while it is in progress if, on the basis of such observations, Engineer believes that such work will not produce a completed project that conforms generally to the Contract Documents or that it will prejudice the integrity of the design concept of the completed project as a functioning whole as indicated in the Contract Documents.
- f. *Clarifications and Interpretations; Field Orders.* Issue necessary clarifications and interpretations of the Contract Documents as appropriate to the orderly completion of each Contractor's work. Engineer may issue Field Orders authorizing minor variations from the requirements of the Contract Documents.
- g. *Change Orders and Work Change Directives.* Recommend Change Orders and Work Change Directives to Owner and prepare Change Orders and Work Change Directives for approval by Owner as required. In addition, the Engineer shall prepare all documentation that appropriate

governmental authorities having jurisdiction over the project may require for review and approval of the change orders.

- h. *Shop Drawings and Samples.* Provide a technical review and approve or take other appropriate action in respect to Shop Drawings and Samples and other data which the Contractor is required to submit, but only for conformance with the information given in the Contract Documents and compatibility with the design concept of the project as a functioning whole as indicated in the Contract Documents. Such reviews and approvals or other action will not extend to means, methods, techniques, sequences or procedures of construction or to safety precautions and programs incident thereto.
- i. *Applications for Payment.* Based on Engineer's observations of the Contractor's completed work and on review of applications for payment and accompanying supporting documentation from Contractor, the Engineer shall:
 - i) Determine the amounts that Engineer recommends that the Contractor be paid. Such recommendations of payment will be in writing and will constitute Engineer's representation to the Owner, based on such observations and review to the best of Engineer's knowledge, information and belief, that a Contractor's work has progressed to the point indicated, the quality of such work is generally in accordance with the Contract Documents and the conditions precedent to a Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Contractor's work.
- j. *Substantial Completion.* Promptly after written notice from each Contractor that each Contractor considers the entire Work, or portions of the completed Work, are ready for its intended use, in company with Owner, and Contractor, conduct an inspection to determine if the Work is Substantially Complete. The Engineer shall prepare a "punchlist" of any observed deficiencies during the inspection. At the direction of the Owner, the Engineer shall prepare and deliver a Certificate of Substantial Completion to Owner and Contractor.
- k. *Record Documents.* Receive annotated record documents from Contractor, which are to be assembled by the Contractor in accordance with the Contract Documents to obtain final payment. Prepare Record Drawings showing appropriate record information based on the project annotated record documents received from each Contractor. The completed Record Drawing deliverables for the project shall consist of two 11"x17" size printed-paper sets and an electronic sets in PDF format.
- l. *Startup Services:* Develop training materials and provide system startup and operational training modules for digester mixing, digester heat loop, and high strength waste receiving unit processes up to 176 hours.
- m. *Additional Services:* Provide additional onsite construction observation or startup services as requested by the Owner on a per diem basis.

PART III – A. COMPENSATION

Compensation for the services set forth in Part I shall be increased \$254,747, resulting in a total contract amount of \$377,747.

APPROVED FOR OWNER

By: _____

Printed Name: Gary Henke

Title: Mayor

Date: _____

APPROVED FOR DONOHUE

By: _____

Printed Name: Michael Stohl

Title: Vice President

Date: _____

Fees and Expenses: CONSTRUCTION RELATED SERVICES
Wastewater Treatment Plant Digestion Improvements
City of New London

Discipline/Role >	Donohue Labor Hours											Totals			
	<u>Mgmt</u>	<u>Construction</u>	<u>Civil</u>	<u>Structural</u>	<u>Process</u>	<u>Mechanical</u>	<u>Operations</u>	<u>Electrical</u>	<u>Electrical</u>	<u>I&C</u>	<u>Admin</u>	<u>CRS</u>	Labor	Expenses	Total
	PIC	PM	Senior	Senior	Staff	Junior	Staff	Lead	Staff	Staff	Staff	RPR			
Person >	Lynne	Howe Bergstrom	Webb	Reimes	Holzem	Halbach	Crouse	Berktoled	Faridi	Grunwald	Admin I	Crouse			
Construction Duration Average Rate: 2019 >	145	175	160	145	130	115	130	185	130	115	60	130			

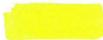
No.	Description														
	Construction Contract Document Execution and CTC Documents	4	8				8				8			\$3,500	\$3,500
	General Administration of Construction Contract (4 hours/week w/add-ons)		200											\$35,000	\$35,000
	Pre-construction Conference and Monthly Meetings		104											\$18,200	\$1,346
	Designer Visits to the site & Observation of Construction (dev punch list)	4		8	16	8	8	8	8	8				\$9,580	\$207
	Addressing Defective Work		24											\$4,200	\$4,200
	Contract Document Clarifications and Interpretations		24	8	16	24	8	8	16	16				\$17,240	\$17,240
	Prepare Change Orders and Work Change Directives		72	8	16	24	8	4	16	16				\$24,900	\$24,900
	Technical Review of Contractor-Prepared Shop Drawings		16	8	32	40	24	8	32	40	80			\$31,720	\$31,720
	Disagreements Between Owner and Contractor	4	24											\$4,780	\$4,780
	Contractor Payment Application Review		24											\$4,200	\$4,200
	Substantial Completion		32											\$5,600	\$5,600
	Final Acceptability of the Contractor's Work		8											\$1,400	\$1,400
	Construction Record Drawings		8			40								\$6,600	\$6,600
	Startup Services / SOP or O&M of Systems	4	8					176						\$24,860	\$24,860
	Resident Project Representative (PT for 12 months, 48 visits, 8 hours per)											384		\$49,920	\$4,970

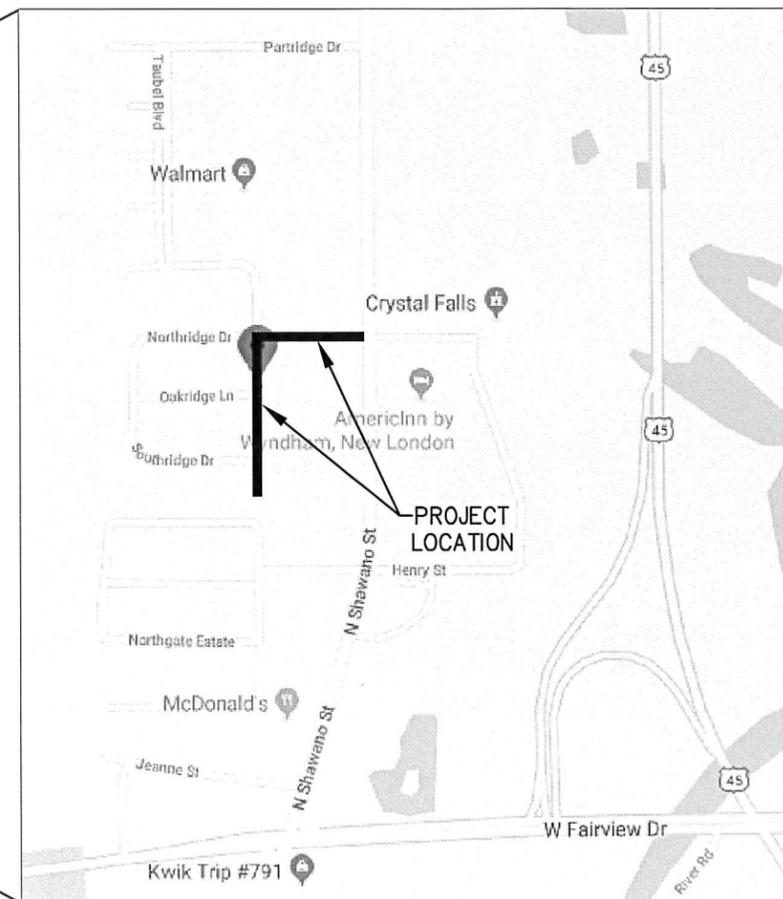
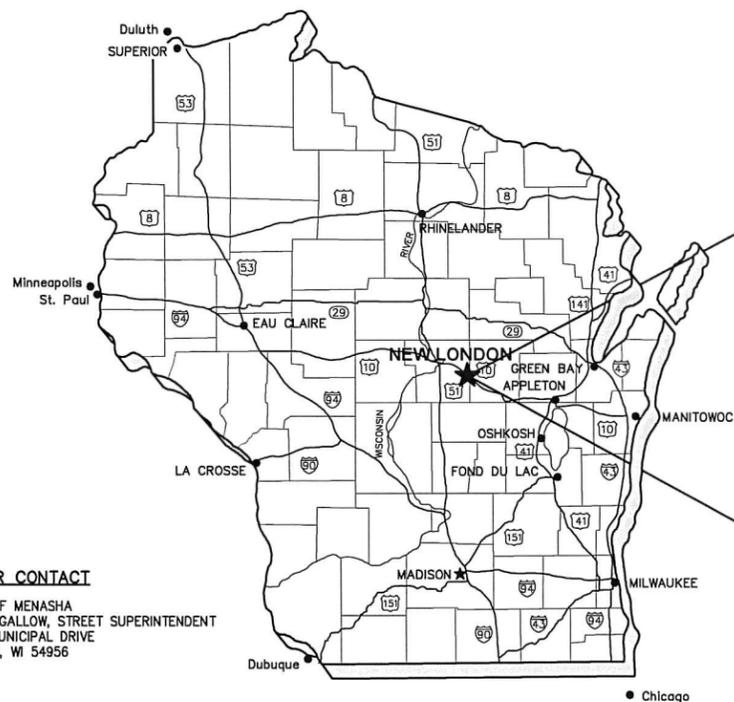
Total Hours	16	552	32	80	144	48	176	28	72	80	88	384	1,700	1,700
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Total Fees and Expenses	241,700	6,524	254,747
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CEDAR STREET & NORTHRIDGE DRIVE SEWER, WATER & STREET CONSTRUCTION CITY OF NEW LONDON

WAUPACA COUNTY, WISCONSIN
MCM # N0009 9-18-00845

-  MINIMUM CURB REPLACEMENT
-  PVC PIPE out of Round
-  STORM SEWER NEEDS CLEANING



CONTACT INFORMATION

UTILITIES

WE ENERGIES
JIM QUINN (ELECTRIC)
KENNETH VAN OSS (GAS)
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(920) 380-3318 (GAS)
jim.quinn@we-energies.com

AT&T
VINCE LEBRUN
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v1253@att.com

TIME WARNER CABLE
VINCE ALBIN
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KIMBERLY, WI 54136-0145
(920) 831-9211
vince.albin@twcable.com

TOWN OF MENASHA, UTILITY DISTRICT
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JEFF ROTH (WATER)
2340 AMERICAN DRIVE NEENAH, WI 54956
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stevel@town-menasha.com
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TOWN OF MENASHA
RANDY GALLOW, STREET SUPERINTENDENT
2000 MUNICIPAL DRIVE
NEENAH, WI 54956

DESIGN CONTACT

McMAHON ASSOCIATES, INC.
LEE REIBOLD
1445 McMAHON DRIVE
NEENAH, WI 54956
(920) 751-4200
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DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
BOBBI JO FISCHER
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WAUTOMA, WI 54982
(920) 787-4686 x3007
Bobbi.Fischer@wisconsin.gov



Dial  or (800) 242-8511
www.DiggersHotline.com

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ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.
1445 McMAHON DRIVE NEENAH, WI 54956
Mailing: P.O. BOX 1025 NEENAH, WI 54957-1025
PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

SHEET INDEX

- 01 - ABBREVIATIONS, SYMBOLS & NOTES
- 01 - ABBREVIATIONS, SYMBOLS & NOTES
- 03 - CEDAR STREET
- 04 - CEDAR STREET
- 05 - NORTHRIDGE DRIVE
- 06 - MISCELLANEOUS DETAILS

DATE
12/2018
PROJECT NO.
N0009 9-18-00845

STANDARD ABBREVIATIONS

AC	ACRE	LT	LEFT
AGG	AGGREGATE	LVC	LENGTH OF VERTICAL CURVE
AH	AHEAD	MAINT	MAINTENANCE
ASPH	ASPHALT PAVEMENT	MATL	MATERIAL
AVG	AVERAGE	MAX	MAXIMUM
B-B	BACK TO BACK	MIN	MINIMUM
BEG	BEGIN	MH	MANHOLE
BIT	BITUMINOUS	MP	MILE POST
BK	BACK	NB	NORTHBOUND
B/L	BASE LINE	NO	NUMBER
BLDG	BUILDING	NOR	NORMAL
BM	BENCH MARK	OD	OUTSIDE DIAMETER
BOC	BACK OF CURB	OB	OBSTITUTE
BRG	BEARING	PAYT	PAVEMENT
C-C	CENTER TO CENTER	PC	POINT OF CURVATURE
CY	CUBIC YARD	PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE
C&G	CURB AND GUTTER	PE	PRIVATE ENTRANCE
CB	CATCH BASIN	PED	PEDESTAL
CE	COMMERCIAL ENTRANCE	PQL	PROFILE GRADE LINE
CHD	CHORD	PI	POINT OF INTERSECTION
C/L	CENTER LINE	P/L	PROPERTY LINE
CL	CLASS (FOR CONC PIPE)	PLE	PERMANENT LIMITED EASEMENT
CMP	CORRUGATED METAL PIPE	PP	POWER POLE
CO	CLEAN OUT	PRC	POINT OF REVERSE CURVATURE
CONC	CONCRETE	PROP	PROPOSED
CORR	CORRUGATED	PSD	PASSING SIGHT DISTANCE
CP	CONTROL POINT	PSI	POUNDS PER SQUARE INCH
CR	CRUSHED	PT	POINT OF TANGENCY
CS	CURB STOP	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
CSW	CONCRETE SIDEWALK	PVI	POINT OF VERTICAL INTERSECTION
CTH	COUNTY TRUNK HIGHWAY	PVT	POINT OF VERTICAL TANGENCY
CULV	CULVERT	R	RADIUS
D	DEPTH OR DELTA	RCP	REINFORCED CONCRETE PIPE
DI	DUCTILE IRON	RD	ROAD
DIA	DIAMETER	REB	REINFORCEMENT ROD
DIS	DISCHARGE	REM	REMOVE
EA	EACH	RECON	RECONSTRUCT
EB	EASTBOUND	REQ'D	REQUIRED
EBS	EXCAVATION BELOW SUBGRADE	R/L	REFERENCE LINE
EG	EDGE OF GRAVEL	RP	RADIUS POINT
ELEV	ELEVATION	RR	RAILROAD
ELEC	ELECTRIC	RT	RIGHT
EMB	EMBANKMENT	R/W	RIGHT-OF-WAY
EMAT	EROSION MAT	SB	SOUTHBOUND
ENT	ENTRANCE	SE	SUPERELEVATION
EOR	END OF RADIUS	SF	SQUARE FEET
EP	EDGE OF PAVEMENT	SI	SLOPE INTERCEPT
EXC	EXCAVATION	STH	STATE TRUNK HIGHWAY
EX	EXISTING	SY	SQUARE YARD
EW	ENDWALL	SALV	SALVAGED
F-F	FACE TO FACE	SAN	SANITARY
FDN	FOUNDATION	SEC	SECTION
FE	FIELD ENTRANCE	SHLDR	SHOULDER
FERT	FERTILIZER	S/L	SURVEY LINE
FG	FINISHED GRADE	SQ	SQUARE
F/L	FLOW LINE	STA	STATION
FT	FOOT	STD	STANDARD
FTG	FOOTING	STO	STORM
GRAV	GRAVEL	SW	SIDEWALK
GN	GRID NORTH	TC	TOP OF CURB
GV	GAS VALVE	TEL	TELEPHONE
HDPE	HIGH DENSITY POLYETHYLENE	TEMP	TEMPORARY
HE	HIGHWAY EASEMENT	TLE	TEMPORARY LIMITED EASEMENT
HMA	HOT MIX ASPHALT	TV	TELEVISION
HP	HIGH POINT	TYP	TYPICAL
HT	HEIGHT	UG	UNDERGROUND
HYD	HYDRANT	USH	U.S. HIGHWAY
ID	INSIDE DIAMETER	VAR	VARIES
I	INCH	VC	VERTICAL CURVE
INL	INLET	VERT	VERTICAL
INV	INVERT	WB	WESTBOUND
IP	IRON PIPE	WM	WATER MAIN
JCT	JUNCTION	WV	WATER VALVE
LB	POUND		
LF	LINEAR FOOT		
LP	LIGHT POLE		

GENERAL NOTES

- THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING ANY PRIVATE UTILITIES, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY VERTICAL DISCREPANCY.
- EXISTING STREET RIGHT-OF-WAY AND INTERSECTING PROPERTY LINES ARE ESTABLISHED FROM FIELD LOCATED SURVEY MONUMENTATION, PREVIOUS SURVEYS, PLATS AND CURRENT PROPERTY DEEDS.
- NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT PRIOR APPROVAL FROM THE OWNER.
- A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MATCHES EXISTING ASPHALTIC CONCRETE SURFACE.
- ALL CURB RADII SHOWN ON THE PLAN SHEETS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
- DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

STANDARD SYMBOLS (PLAN VIEW ONLY)

2" IRON PIPE FOUND	TELEPHONE CABLE - BURIED
1 1/4" REBAR FOUND	ELECTRIC CABLE - BURIED
1 1/4" x 30" IRON REBAR WEIGHING 4.30 LB/LF SET	UTILITIES - OVERHEAD
1" (1.315 OD) IRON PIPE FOUND	FIBER OPTIC CABLE - BURIED
1" IRON PIPE SET	GAS MAIN
3/4" IRON REBAR FOUND	CABLE TELEVISION - BURIED
3/4" IRON PIPE FOUND	DITCH LINE
3/4"x 24" IRON REBAR WEIGHING 1.5 LB/LF SET	STREET C/L OR R/L
MAG NAIL FOUND	PROPERTY LINE
MAG NAIL SET	RIGHT-OF-WAY LINE
MAG SPIKE FOUND	SECTION LINE
MAG SPIKE SET	EXISTING CONTOURS
CHISEL CROSS FOUND	PROPOSED CONTOURS
CHISEL CROSS SET	EXISTING FORCEMAIN SEWER
COUNTY MONUMENT	EXISTING SANITARY SEWER
CONCRETE MONUMENT FOUND	PROPOSED SANITARY SEWER
CONTROL POINT HORIZONTAL	EXISTING WATER MAIN
VERTICAL BENCHMARK	PROPOSED WATER MAIN
SOIL BORING or MONITORING WELL	EXISTING STORM SEWER
POWER POLE	PROPOSED STORM SEWER
POWER POLE W/GUY WIRE	EXISTING CURB & GUTTER
TELEPHONE OR TELEVISION PEDESTAL	PROPOSED CURB & GUTTER
MAILBOX	PROPOSED REJECT CURB & GUTTER
MAILBOX	EXISTING CULVERT WITH END SECTIONS
SIGN	PROPOSED CULVERT WITH END SECTIONS
RAILROAD CROSS BUCK	BUILDING OUTLINE
RAILROAD GATE ARM	FENCE LINE
RAILROAD TRACKS	SAW CUT REQ'D
LIGHT POLE	SILT FENCE
WOOD POLE	GUARD RAIL
TRAFFIC SIGNAL	DITCH CHECK
TRAFFIC SIGNAL MAST ARM	INLET PROTECTION
CONIFEROUS TREE	TRACKING PAD
DECIDUOUS TREE	TURBIDITY BARRIER OR SHEET PILING
TREE OR BRUSH LINE	SANDBAG COFFERDAM
BED ROCK (IN PROFILE VIEW)	SLOPE INTERCEPT
HANDICAPPED PARKING STALL	LIMITS OF DISTURBANCE
EXISTING SPOT ELEVATION	EXISTING PROPOSED
PROPOSED SPOT ELEVATION	ASPHALT PAVEMENT
DRAINAGE HIGH POINT	CONCRETE SIDEWALK/DRIVEWAY
DRAINAGE DIRECTION	GRAVEL
EXISTING MANHOLE	RIP-RAP (SIZE AS SPECIFIED)
PROPOSED MANHOLE	BRICK/PAVERS
EXISTING INLET	PROPOSED EROSION MAT
PROPOSED INLET	PROPOSED TURF REINFORCEMENT MAT (TRM)
EXISTING YARD DRAIN	EXISTING DELINEATED WETLANDS
PROPOSED YARD DRAIN	PROPOSED ASPHALTIC DRIVEWAY
EXISTING CLEAN OUT	
PROPOSED CLEAN OUT	
EXISTING DOWNSPOUT	
PROPOSED DOWNSPOUT	
EXISTING WATER VALVE	
PROPOSED WATER VALVE	
EXISTING CURB STOP	
PROPOSED CURB STOP	
EXISTING FIRE HYDRANT	
PROPOSED FIRE HYDRANT	
PROPOSED WATER FITTING	
PROPOSED WATER REDUCER	
PROPOSED ENDCAP	
GAS VALVE	

EROSION & SEDIMENT CONTROL PLAN

BEST MANAGEMENT PRACTICES:

THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) TECHNICAL STANDARDS. THESE STANDARDS MAY BE FOUND ON THE DNR WEBSITE AT <http://www.dnr.wi.gov/runoff/stormwater/techstds.htm>. RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 606, WIS-DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, UNTIL TECHNICAL STANDARD 1065 IS COMPLETED BY THE DNR. THE MINIMUM BEST MANAGEMENT PRACTICES SPECIFIED FOR THIS PROJECT ARE AS FOLLOWS:

[] LAND APPLICATION OF POLYACRYLAMIDE (1050)	[X] DE-WATERING (1061)
[] WATER APPLICATION OF POLYMERS (1051)	[] DITCH CHECK (1062)
[] NON-CHANNEL EROSION MAT (1052)	[] SEDIMENT TRAP (1063)
[] CHANNEL EROSION MAT (1053)	[] SEDIMENT BASIN (1064)
[] VEGETATIVE BUFFER (1054)	[] RIP-RAP (1065)
[] SEDIMENT BALE BARRIER (1055)	[] CONSTRUCTION DIVERSION (1066)
[] SILT FENCE (1056)	[] GRADING PRACTICES (1067)
[X] TRACKING PAD & TIRE WASHING (1057)	[X] DUST CONTROL (1068)
[X] MULCHING (1058)	[] TURBIDITY BARRIER (1069)
[X] SEEDING (1059)	[] SILT CURTAIN (1070)
[X] STORM DRAIN INLET PROTECTION (1060)	[] MANUFACTURED PERIMETER PRODUCTS (1071)

REMOVE THE BOLD LINE AFTER YOU MODIFY "X"'S

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND IMPLEMENT BEST MANAGEMENT PRACTICES TO PREVENT OR REDUCE ALL OF THE FOLLOWING:

- DEPOSITION OR TRACKING OF SOIL ONTO STREETS BY VEHICLES.
- DISCHARGE OF SEDIMENT INTO STORM WATER INLETS.
- DISCHARGE OF SEDIMENT INTO ADJACENT STREAMS, RIVERS, LAKES AND WETLANDS.
- DISCHARGE OF SEDIMENT FROM DITCHES AND STORM SEWERS THAT FLOW OFFSITE.
- DISCHARGE OF SEDIMENT FROM DEWATERING ACTIVITIES.
- DISCHARGE OF SEDIMENT FROM SOIL STOCKPILES EXISTING FOR 7 DAYS OR MORE.
- DISCHARGE OF SEDIMENT FROM EROSION OUTLET FLOWS.
- TRANSPORT OF CHEMICALS, CEMENT AND BUILDING MATERIALS BY RUNOFF.
- TRANSPORT OF UNTREATED VEHICLE AND WHEEL WASH WATER BY RUNOFF.

THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING PREVENTATIVE MEASURES:

- PRESERVE EXISTING VEGETATION WHENEVER POSSIBLE.
- MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL.
- MINIMIZE LAND DISTURBANCES ON SLOPES OF 20% OR MORE.
- MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ANY ONE TIME.
- DIVERT CLEAR WATER AWAY FROM EXPOSED SOILS.
- TEMPORARILY STABILIZE EXPOSED SOILS THAT WILL NOT BE ACTIVE FOR 14 DAYS OR MORE. USE MULCHING, SEEDING, POLYACRYLAMIDE OR GRAVELING TO STABILIZE.
- PERMANENTLY STABILIZE EXPOSED SOILS AS SOON AS POSSIBLE.
- CONTRACTOR SHALL EDUCATE ITS EMPLOYEES AND SUBCONTRACTORS ABOUT PROPER SPILL PREVENTION AND RESPONSE PROCEDURES. IF A SPILL OCCURS, THE CONTRACTOR SHALL EVACUATE THE AREA AND IMMEDIATELY NOTIFY THE LOCAL MUNICIPALITY, FIRE DEPARTMENT OR 911 EMERGENCY SYSTEM. IF NO FIRE, EXPLOSION OR LIFE / HEALTH SAFETY HAZARD EXISTS, THE NEXT STEP IS TO CONTAIN THE SPILL AND PERFORM CLEANUP. USE DRY CLEANUP METHODS, NOT WET.

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING BEST MANAGEMENT PRACTICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES BY THE END OF THE WORK DAY. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING BEST MANAGEMENT PRACTICES TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITY AS SOON AS THOSE ACTIVITIES ARE COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF TEMPORARY BEST MANAGEMENT PRACTICES AFTER CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION IS ESTABLISHED.

INSPECTION & MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING BEST MANAGEMENT PRACTICES WEEKLY, AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. WRITTEN DOCUMENTATION OF EACH INSPECTION SHALL BE KEPT AT THE CONSTRUCTION SITE AND SHALL INCLUDE THE FOLLOWING INFORMATION: DATE, TIME, AND LOCATION OF INSPECTION; NAME OF INDIVIDUAL WHO PERFORMED THE INSPECTION; AN ASSESSMENT OF THE CONDITION OF BEST MANAGEMENT PRACTICES; A DESCRIPTION OF ANY BEST MANAGEMENT PRACTICE IMPLEMENTATION AND MAINTENANCE PERFORMED; AND A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, REPAIRING, OR REPLACING BEST MANAGEMENT PRACTICES AS NECESSARY WITHIN 24 HOURS OF AN INSPECTION OR NOTIFICATION. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING, MAINTAINING, REPAIRING, OR REPLACING BEST MANAGEMENT PRACTICES UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY IS COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED WITH A DENSITY OF AT LEAST 70%.

THE CONTRACTOR IS RESPONSIBLE FOR POSTING THE PERMIT IN A CONSPICUOUS LOCATION ON THE CONSTRUCTION SITE. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING A COPY OF THE APPROVED REPORTS, PLANS, AMENDMENTS, INSPECTION REPORTS, AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY IS COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER IS ESTABLISHED WITH A DENSITY OF AT LEAST 70%. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER WHEN THE VEGETATIVE DENSITY REACHES AT LEAST 70%. THE OWNER IS RESPONSIBLE FOR TERMINATING DNR PERMIT COVERAGE.

AMENDMENTS:

THE CONTRACTOR IS RESPONSIBLE FOR AMENDING THE EROSION & SEDIMENT CONTROL PLAN IF THERE IS A CHANGE IN CONSTRUCTION, OPERATION OR MAINTENANCE AT THE SITE WHICH HAS THE REASONABLE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS; THE ACTIONS REQUIRED BY THE PLAN FAIL TO REDUCE THE IMPACTS OF POLLUTANTS CARRIED BY CONSTRUCTION SITE RUNOFF; OR IF THE DNR NOTIFIES THE APPLICANT OF CHANGES NEEDED IN THE PLAN. THE DNR AND OWNER SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO MAKING CHANGES TO THE PLAN.

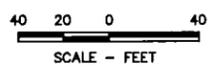
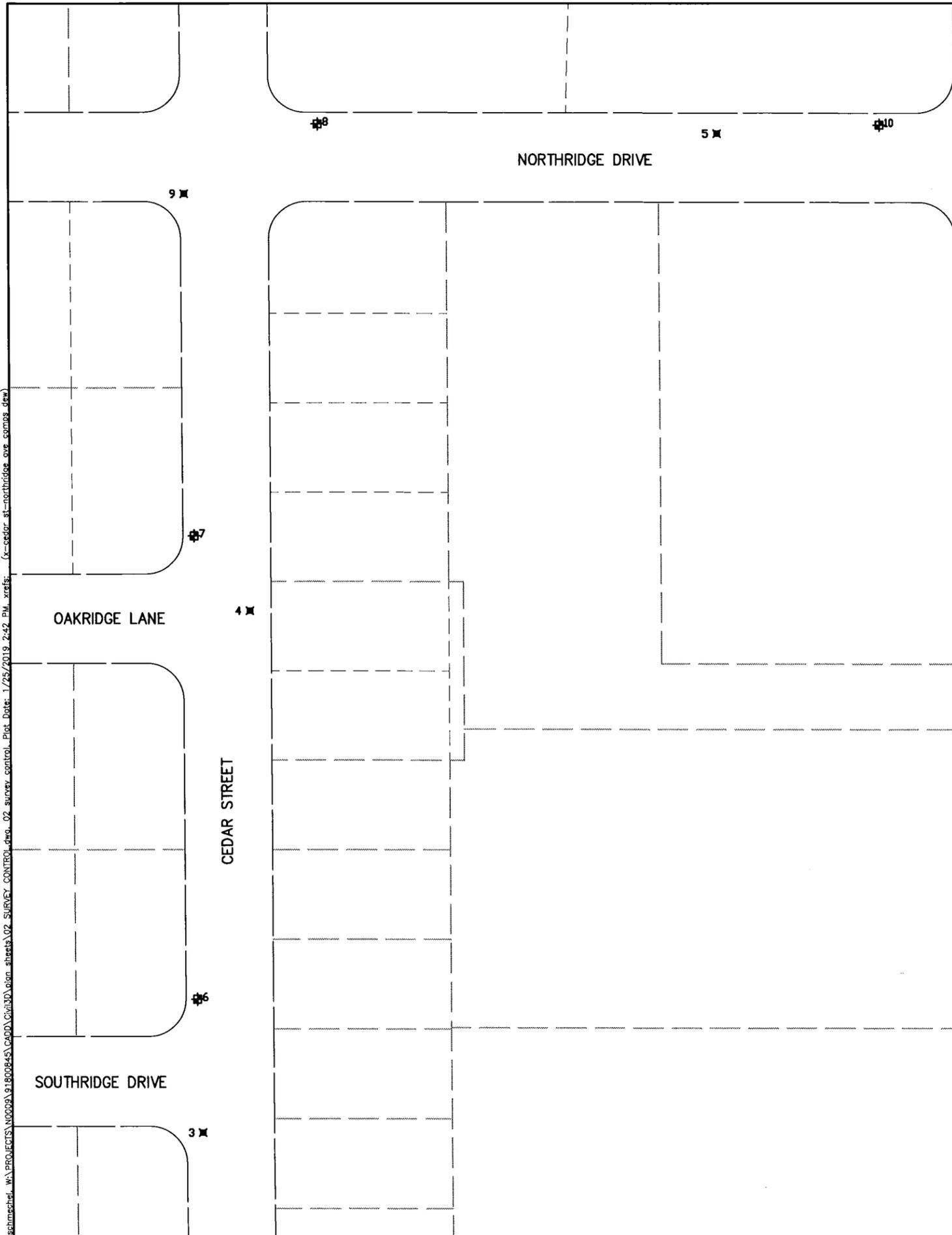
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ENGINEERS & ARCHITECTS
1445 McMAHON DRIVE, NEENAH, WI 54956
Mailing: P.O. BOX 1025, NEENAH, WI 54957-1025
PH: 920.751.4200, FX: 920.751.4284, MCMGRP.COM

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NO.	DATE	REVISION

STREET AND UTILITY RECONSTRUCTION, WISCONSIN
CITY OF NEW LONDON, WAUPACA COUNTY, WISCONSIN
ABBREVIATIONS, SYMBOLS & NOTES

DESIGNED BDW	DRAWN MJA
PROJECT NO. N0009 9-18-00845	
DATE 12/2018	
SHEET NO. 01	



HORIZONTAL CONTROL POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
3	360039.00	626038.17	MAG NAIL
4	360388.49	626071.41	MAG NAIL
5	360708.81	626388.63	MAG NAIL
9	360668.50	626027.59	MAG NAIL

VERTICAL BENCHMARK CONTROL		
POINT #	ELEVATION	DESCRIPTION
6	764.01	HYDRANT TAG BOLT
7	765.11	HYDRANT TAG BOLT
8	767.01	HYDRANT TAG BOLT
10	767.62	HYDRANT TAG BOLT
11	768.57	HYDRANT TAG BOLT

NOTE:
 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ALSO VERIFY HORIZONTAL CONTROL BY FIELD CHECKING SEVERAL CONTROL POINTS AND SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY DISCREPANCIES.

VERTICAL DATUM:
 ELEVATIONS ARE REFERENCED TO NGS DATA:
 CONTROL POINT NAME: 4J94
 POINT ID: DE7421 NAVD 88 DATUM
 BY GPS OBSERVATION & CONVENTIONAL LEVEL LOOP TO ELEVATION = 761.71 (2007 ADJUSTMENT)
 LEVEL LOOP PER FIELD BOOK 1382 PAGES 68-70

HORIZONTAL DATUM:
 COORDINATES ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM AS PUBLISHED FOR WAUPACA COUNTY

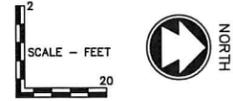
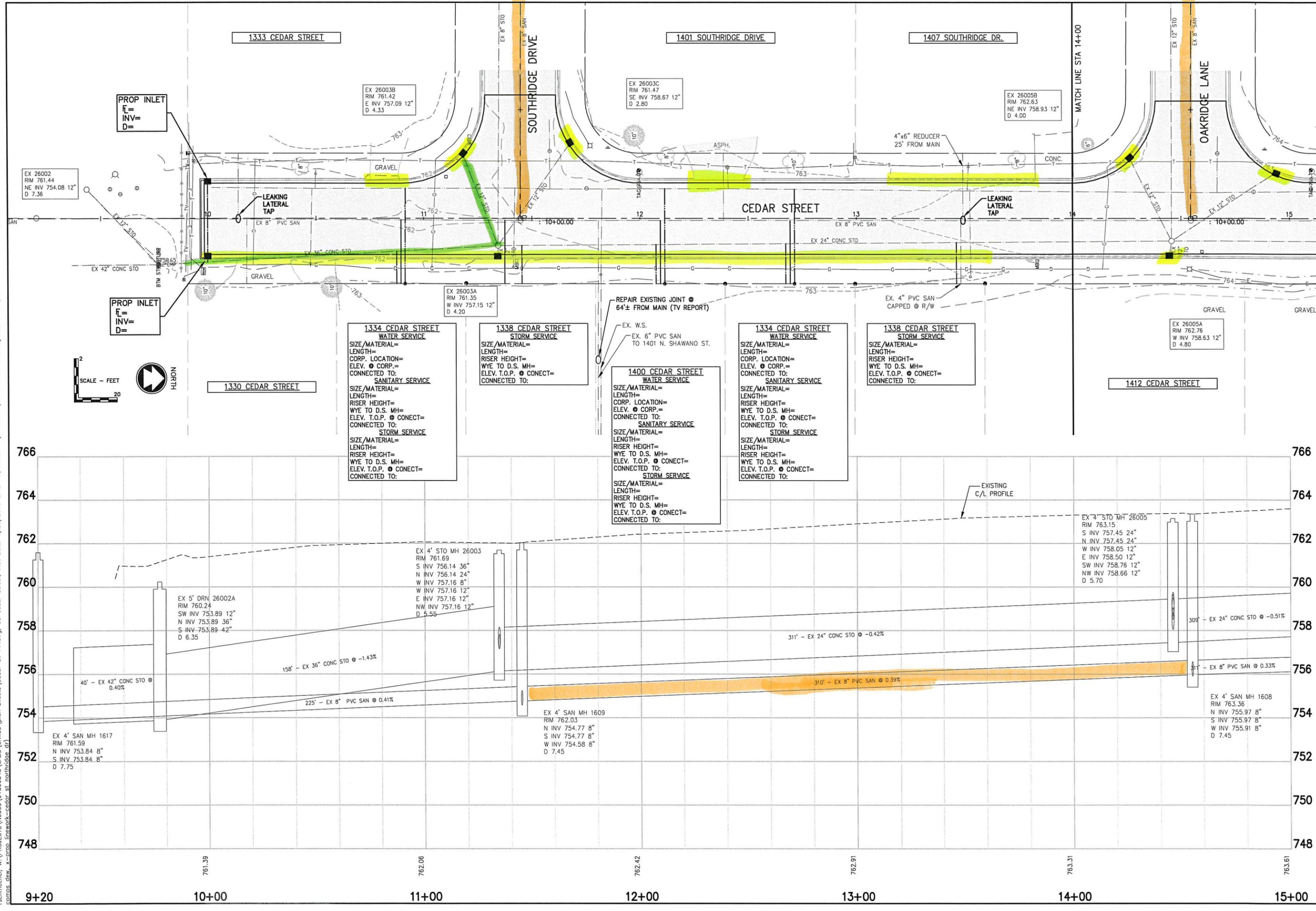
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STREET AND UTILITY RECONSTRUCTION
CITY OF NEW LONDON, WAUPACA COUNTY, WISCONSIN
SURVEY CONTROL

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PROJECT NO.	
N0009 9-18-00845	
DATE	
12/2018	
SHEET NO.	
02	

rschmechel, W:\PROJECTS\N0009\1800845\CADD\Civil3D\plan sheets\Cedar St-PP.dwg, 03 cedar street, Plot Date: 1/25/2019 2:42 PM, xreis: (x=exist topo cedar st northridge dr, x=exist shade cedar st northridge dr, x=all points cedar st northridge dr, x=prop network=cedar st northridge dr)



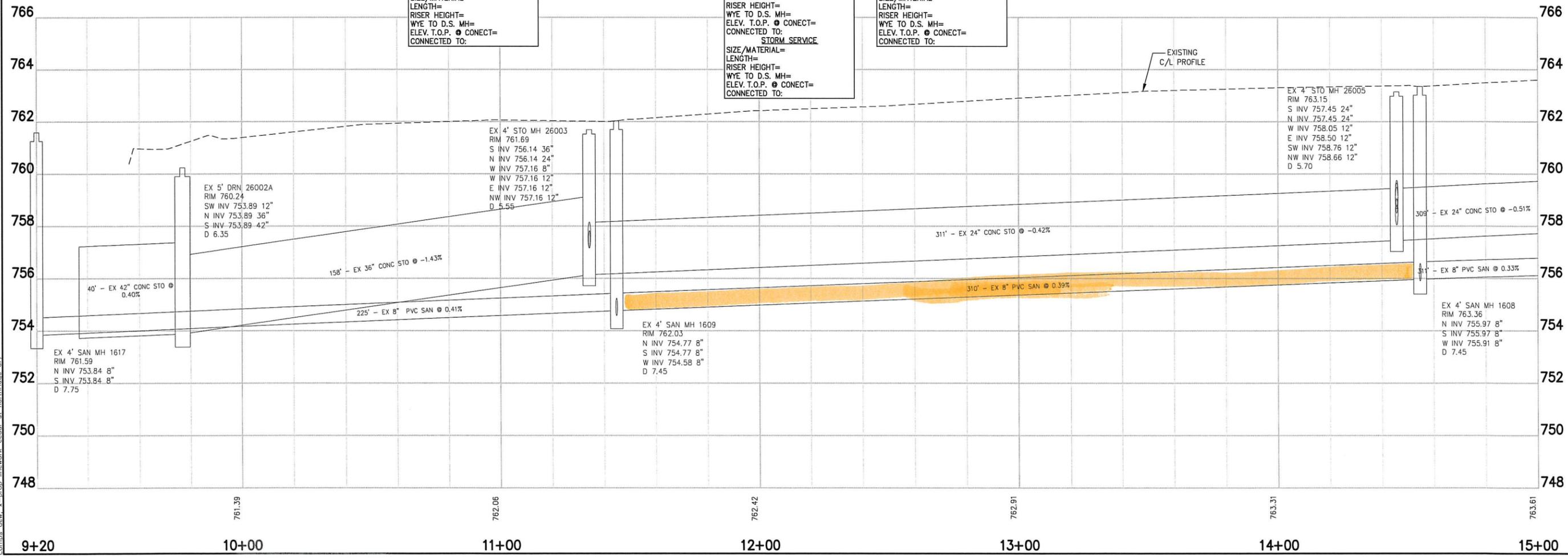
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 LENGTH=
 CORP. LOCATION=
 ELEV. @ CORP.=
 CONNECTED TO:
SANITARY SERVICE
 SIZE/MATERIAL=
 LENGTH=
 RISER HEIGHT=
 WYE TO D.S. MH=
 ELEV. T.O.P. @ CONECT=
 CONNECTED TO:
STORM SERVICE
 SIZE/MATERIAL=
 LENGTH=
 RISER HEIGHT=
 WYE TO D.S. MH=
 ELEV. T.O.P. @ CONECT=
 CONNECTED TO:

1338 CEDAR STREET STORM SERVICE
 SIZE/MATERIAL=
 LENGTH=
 RISER HEIGHT=
 WYE TO D.S. MH=
 ELEV. T.O.P. @ CONECT=
 CONNECTED TO:

1400 CEDAR STREET WATER SERVICE
 SIZE/MATERIAL=
 LENGTH=
 CORP. LOCATION=
 ELEV. @ CORP.=
 CONNECTED TO:
SANITARY SERVICE
 SIZE/MATERIAL=
 LENGTH=
 RISER HEIGHT=
 WYE TO D.S. MH=
 ELEV. T.O.P. @ CONECT=
 CONNECTED TO:
STORM SERVICE
 SIZE/MATERIAL=
 LENGTH=
 RISER HEIGHT=
 WYE TO D.S. MH=
 ELEV. T.O.P. @ CONECT=
 CONNECTED TO:

1334 CEDAR STREET WATER SERVICE
 SIZE/MATERIAL=
 LENGTH=
 CORP. LOCATION=
 ELEV. @ CORP.=
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SANITARY SERVICE
 SIZE/MATERIAL=
 LENGTH=
 RISER HEIGHT=
 WYE TO D.S. MH=
 ELEV. T.O.P. @ CONECT=
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STORM SERVICE
 SIZE/MATERIAL=
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 RISER HEIGHT=
 WYE TO D.S. MH=
 ELEV. T.O.P. @ CONECT=
 CONNECTED TO:

1338 CEDAR STREET STORM SERVICE
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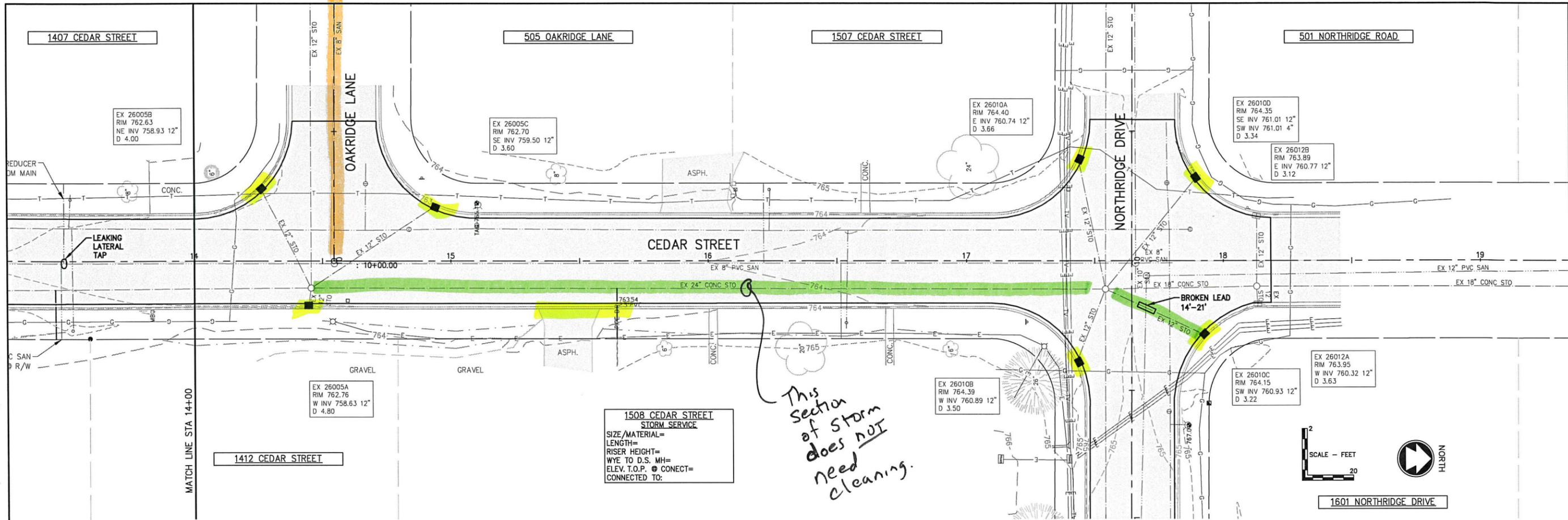
McMAHON
 ENGINEERS ARCHITECTS
 McMAHON ASSOCIATES, INC.
 1448 McMAHON DRIVE
 MILWAUKEE, WI 53207
 PH 414.224.4200 FAX 414.224.4204

NO.	DATE	REVISION

STREET AND UTILITY RECONSTRUCTION
 CITY OF NEW LONDON, WAUPACA COUNTY, WISCONSIN
 CEDAR STREET

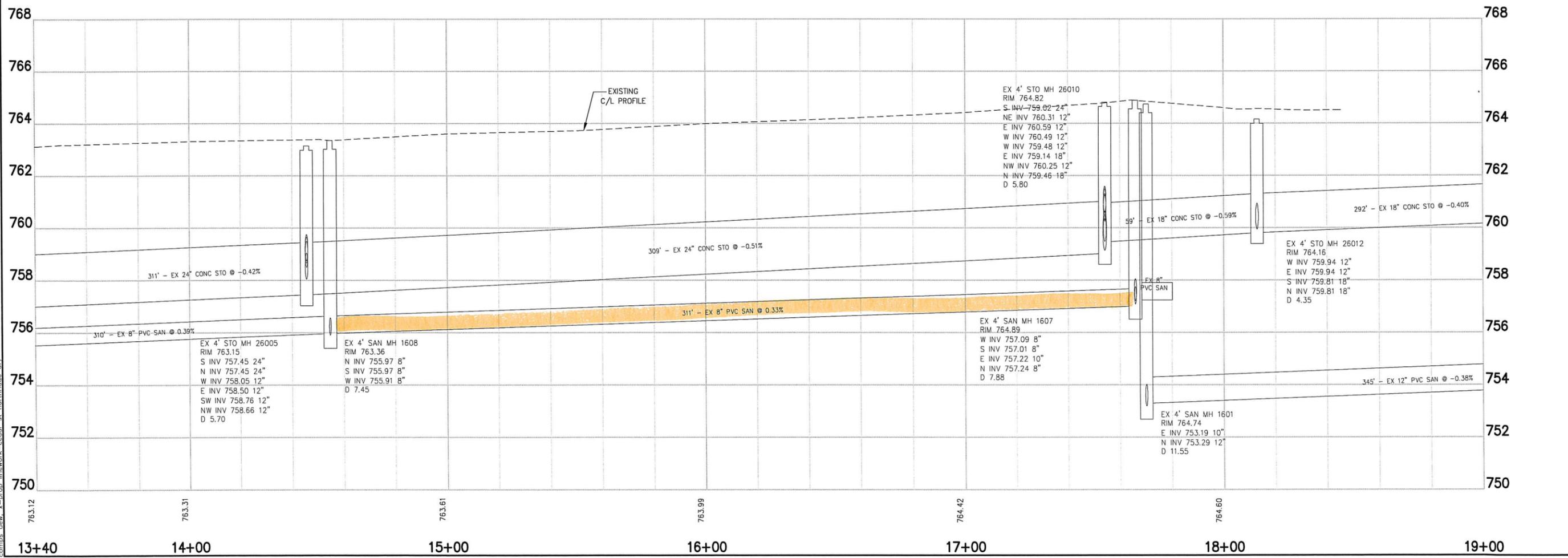
DESIGNED	DRAWN
BDW	MJA
PROJECT NO.	
N0009 9-18-00845	
DATE	
12/2018	
SHEET NO.	
03	

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comps.dwg, x=prop linework-cedar-st-northridge.dwg



This section of storm does NOT need cleaning.

1508 CEDAR STREET STORM SERVICE
 SIZE/MATERIAL=
 LENGTH=
 RISER HEIGHT=
 WYE TO D.S. MH=
 ELEV. T.O.P. @ CONNECT=
 CONNECTED TO:



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STREET AND UTILITY RECONSTRUCTION
CITY OF NEW LONDON, WAUPACA COUNTY, WISCONSIN
CEDAR STREET

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DATE 12/2018	
SHEET NO. 04	

