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

PARKS & RECREATION COMMITTEE

Tuesday, February 5th, 2018
5:30 p.m.

Council Chamber, New London Municipal Building

1. Call meeting to order, Adopt Agenda
2. Approval of December 4th, 2018 minutes
3. Director's Memo
4. Public comment relevant to items on the agenda
5. Consider for approval an engineers agreement with McMahon and Associates for design, bid and construction administration services for Phase 1-HVAC upgrades at the Police Department
6. Review of preliminary design plans of the Newton Blackmour trail extension
7. Discussion about remaining grant funds for St. John's Park
8. Director's Report
9. Chairman's Report
10. Committee Member's Report
11. Next Month Agenda Items
12. Adjournment

Rob Way, Chairman
New London Parks & Recreation Committee

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-Coordinators 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.

PARKS & RECREATION COMMITTEE MINUTES

Tuesday December 4, 2018 5:30 p.m.

COMMITTEE MEMBERS PRESENT:	Rob Way, Bob Besaw, Dennis Herter, John Faucher, Bob Marcks (entered 5:36 pm), Henrica Bult
COMMITTEE MEMBERS ABSENT:	Lori Dean
COUNCIL MEMBERS PRESENT:	Mayor Gary Henke, Tom O'Connell, Mike Barrington, Dave Morack
OTHERS PRESENT:	Chad Hoerth, Director of Public Services Kent Hager, City Administrator Michelle Lambrecht, Administrative Assistant Scott Bellile, New London Press Star James Jaeger, Charlie Rogers, Armin Conradt, Linda Butler, Jim & Sandy Massonet

Way called the meeting to order at 5:30 p.m. Herter moved to approve the agenda, seconded by Besaw. *Motion carried by all.*

Approval of November 5, 2018 Minutes: It was brought to the committee's attention that Mike Barrington's name was omitted from attending the November 5th, 2018 Parks & Recreation committee meeting. Way made a request to amend the November 5, 2018 minutes to include Barrington as being present at that meeting.

Besaw moved, seconded by Herter to amend the minutes as suggested and approve the November 5, 2018 Parks & Recreation Committee meeting minutes.

Motion carried by all.

Public comment(s) relevant to items on the Agenda: James Jaeger with the Veterans Memorial Foundation addressed concerns regarding activities at Taft Park and the Veterans memorial.

Consider a request from the Veteran's Memorial Foundation to dedicate Taft Park for Veterans use and approve activities in the park: The New London Veterans Memorial Foundation presented a letter "to have Taft Park dedicated for Veterans use only and to have approval of other activities held at Taft Park in order to maintain proper respect for Veterans and the Memorial". Discussion took place regarding the parcels and street right of way that make up the current park; the central trash collection site and the idea of renaming the park to "Veterans Park". Consideration will be given at a future meeting for vacating the street right of way that currently bisects the park and renaming the park. The Committee stated that they would like to give the central trash collection site in Taft Park a period of time to operate in order to see if any true concerns evolve and revisit the issue in August of 2019. *No motion was made at this time.*

Discussion about the landscaping plans for Taft and St. John's Parks: Hoerth presented a concept for landscaping around the central trash collection sites at Taft Park and St. John's Park. Planting a "wall" of shrubs/arborvitaes around the sites would be effective in creating a visual barrier between the trash collection sites and the rest of the park. *No motion was made on this item.*

Act on a proposal to dedicate the old municipal garage property as an extension of Riverside Park: The Stilen family has requested to place a new gazebo in a city park in memory of their two sons Greg and Johnathon. The family has raised the money to purchase the gazebo kit. Originally the thought was to place the gazebo at Rivertrail Park, however the old city garage site was more attractive due to better parking and visibility from the street. In order to do this the city should first officially dedicate the old city garage site as park land.

Besaw moved, seconded by Herter to recommend that council officially dedicate the old city garage parcels as an extension of Riverside Park. *Motion carried by all*.

Consider accepting a donation and location to install a new park gazebo in memory of Greg and Jonathon Stilen: Hoerth explained that the Stilen family has requested that the gazebo be placed on the eastern part of the old city garage property nearby an existing power pole so that electricity could be brought to the structure. The family will continue to fundraise for a concrete floor and a few other items but would like to have the gazebo kit installed in 2019. Mayor Henke recommended that a written agreement be produced to clearly explain the expectation that the city would accept the donation and retain all rights for future activities and development of the gazebo and adjacent property.

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Besaw moved, seconded by Marcks to recommend that council accept the donation of a new gazebo to be installed at the proposed site in memory of Greg and Jonathon Stilen pending an executed agreement defining the city's right for future use and development of the gazebo and adjacent property. *Motion carried by all*.

Discuss a proposal from the New London School District to partner up for the replacement of the Hatten Park Tennis Courts: Hoerth explained that he has been working with the school district to come up with a plan to repair or replace the tennis courts in the city's park system. The school district uses several courts in City parks for their tennis teams and was asked if they would be interested in a 50/50 split for asphalt court replacement at Hatten Park; the school district declined this proposal. The committee felt that a 50/50 split was appropriate and if they officially declined the committee's offer, then the city would proceed with plans to renovate the courts with the next most economical option which is a tile court system.

Faucher moved, seconded by Herter that staff make a final proposal with the New London school District to equally split the cost for the replacement and maintenance of the four asphalt tennis courts at Hatten Park. If the School District declines the city will proceed with plans to install a tile court system. *Motion carried by all*.

Review and consider recommending to council the 2019 part-time seasonal staff wage schedule: A draft of the department's 2019 part-time seasonal staff wage schedule was presented. Minor changes were proposed to combine all Volleyball/Soccer/Basketball referee and Softball umpire wages into one schedule.

Besaw moved, seconded by Faucher to recommend that council approve the 2019 part-time seasonal staff wage schedule. *Motion carried by all*.

Director's Report: There were no questions on the monthly reports and statistics.

Chairman's Report: None identified

Committee Member's Report: None identified

Next Month Agenda Items: Possible consideration for vacating the street right-of-way in Taft Park and renaming of the park.

Herter moved to adjourn; seconded by Besaw at 6:45p.m. *Motion carried by all.*

Chad R. Hoerth
Director of Public Services

Return to Agenda

Parks & Recreation Office
215 N. Shawano Street
New London, WI 54961
920.982.8521
Fax: 920.982.8665

Aquatic & Fitness Center
815 W. Washington Street
New London, WI 54961
920.9828524

Senior Center & Transit
600 W. Washington Street
New London, WI 54961
Center: 920.982.8522
Transit: 920.982.8523

New London Access
215 N. Shawano Street
New London, WI 54961
920.982.8537

Building & Grounds/
Park Shop
915 W. Wolf River Ave
New London, WI 54961
920.982.8510

DEPARTMENT OF PARKS & RECREATION
CITY OF NEW LONDON

Memorandum

TO: New London Park & Recreation Committee
FROM: Chad Hoerth, Director of Public Services
RE: February 5th Park and Rec Committee Meeting
DATE: Thursday, January 31st, 2019

- Consider for approval an engineers agreement with McMahon and Associates for design, bid and construction administration services for Phase 1-HVAC upgrades at the Police Department- Enclosed in your packet is an Engineers agreement with McMahon for HVAC improvements needed at the Police Department. I've also included the original report for your review detailing the recent assessment on the PD's HVAC systems and what phase 1 entails. We've talked about this in the past, but the main reason why I have this as an immediate priority is that we were having issues with the AC unit last fall. Our maintenance company came and said we have a Freon leak somewhere which they couldn't easily identify. They refilled the Freon and stated they can only do that once. The equipment is old and beyond it's useful life so the plan is to put the money into replacement rather than nickel and dime us into repairs. I'd like to get the process going so that the equipment is replaced in a timely manner before we need major air conditioning in the building. Replacement funding for this project is in the proposed capital equipment and project schedule which is being presented to council on February 12th, so if passed by this committee, this contract and the funding request would both be brought to the council floor at that time. If for some reason the agreement would be approved earlier at the council meeting but the funding would not, then the agreement would not be executed.

    - *Possible/Recommended Motion: I make a motion that city council considers approving the proposed engineers agreement with McMahon and Associates for design, bid and construction administration services for Phase 1-HVAC upgrades at the Police Department in the amount of $9,500.*

- Review of preliminary design plans of the Newton Blackmour trail extension- Our engineers from Ayres and Associates have completed the 30% design review for the extension of the Newton Blackmore trail, which is included in your packet. Our next step will be to once again apply for the next round of Stewardship Grant funding.

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- Discussion about remaining grant funds for St. John's Park- The Downtown Riverwall and Dock project is complete and all the contract paperwork is closed out. After all is said and done, we have $67,396.37 leftover of our original $495,188.00 grant. We've been researching what we can do with that as you really don't want to turn away $67,396.37 in awarded grant money. But, the catch is that:

  1. The funding can only be used at the parcel that was identified in the grant request (so we can only use it at the St. John's Park site).
  2. Only certain things qualify (things that support "nature based recreation", so projects like playgrounds and sport fields do not qualify).
  3. It's a 50/50 grant, so the city has to come up with half of the project cost.

  Since the grant funds can only be used on the St. John's site, the limitations increase as the site is not that large. Our first thought is maybe a restroom facility which does qualify as it supports the new transient dock. Water and sewer service is already there, which is a plus. However per flood regulations, the facility would need to be 2 feet above the 100 year flood elevation along with the flood protection at 1 foot above for 15 feet around the building. We haven't surveyed the property yet (as it's a bit difficult in the snow), but we're guessing at this point a restroom facility will be pretty difficult to fit on the site with those requirements.

  The current grant runs out in June of 2019. If we can come up with an approved project and start engineering by June of this summer, the DNR can extend the grant for 1 year (so the construction and our grant reimbursement paperwork would need to be completed by June of 2020). We'll continue to research if there is a benefit to using the grant, but we need to make our decision soon as the clock is ticking.

Director's Report

1. Years of Service Report:
   - No service anniversaries to report on for January

2. Department Usage & Financial Statistics –Reports will be emailed before the meeting.

3. Upcoming/Past Events –
   - On February 15th we'll hold our annual Daddy Daughter Dance.

4. Updates on Projects/Notable Information:

   - The drama continues on replacement of our second boiler at the garage that failed. The finger pointing has kicked into full gear but Keller keeps on saying that they are doing the work on their end and it's not going to cost the city anything. Their insurance company is now getting involved and going after the installer. Keller still has not gotten word officially if the boiler that failed was due to a bad boiler or because of unbalanced water. Keller has another company coming in the week of February 4th to flush our boiler system and balance the water and hook up the replacement boiler.

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- We're still working with members of the St. John's Food Pantry and now UCC (First Congregational United Church of Christ) on a partnership with our food pantry. We'll be talking about this more in detail at the Finance and Personnel meeting this month.

- Providing that the city council approves the recommended capital projects schedule at the February 12th meeting, our staff will be working on getting the process scheduled for implementation of the proposed Computer Maintenance Management System (CMMS) program. This will be a fairly large project for us which will take months to complete. Timeline-wise I'm hoping to have everything configured and people trained by the 4th quarter of this year so we're comfortable using it and entering in data by January 1, 2020 (which would be our first benchmark year of data collection).

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McMAHON
ENGINEERS ARCHITECTS

AGREEMENT
For PROFESSIONAL SERVICES

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

Date: January 30, 2019

McM. No. M0032-9-18-00001.02 /06

PROJECT DESCRIPTION:

McMahon Associates, Inc. (McMAHON) was asked by the City of New London to provide design and construction administration services to upgrade the existing temperature controls at the Police Department. This scope of work was recommended in the HVAC Study provided by McMahon on January 3, 2019. The plan is to replace the existing pneumatic system with a new DDC Building Automation System, replace (2) heating hot water pumps, and replace the existing exhaust fans on the building.

SCOPE OF SERVICES:

McMahon Associates, Inc. agrees to provide the following Scope Of Services for this project:

Items Included In The Design Scope Of Services:

A) Provide (1) site visit, to develop the full scope of work.
B) Generate temperature control diagrams and specifications for a new DDC Building Automation System (BAS).
C) Prepare plans utilizing AutoCAD or Revit to demonstrate where equipment is located, demolition, and new work scope.

Items Included in the Scope of Services (Construction Administration)

A) Assist the City with bidding. Review bids, and generate a recommendation based on submitted bids.
B) Review shop drawings, and submitted equipment in respect to design documents.
C) Perform construction site visits weekly for the duration of the project to review installation and construction progress
D) Provide (1) site visit for final punch-list and verification.

Items Not Included In The Scope Of Services:
The following is not included in McMAHON's Scope Of Services: The following is not intended to be a comprehensive list. It is intended to highlight general areas not included in the Scope Of Services.

E) Energy Modeling or Energy Analysis.
F) Permit fees for local and state submittals required for work to be performed.
G) Record Drawings. If authorized by the City of New London., record drawings may be provided upon project completion on a T&E basis using current McMahon billing rates.
H) Additional site visits during design phase beyond what is outlined above.
I) Modifications to the contract drawings as a result of significant changes in scope or design requirements including, but not limited to, changes in size, complexity, construction schedule, and site conditions that differ from those assumed for the development of the plans.
J) Overall review of the existing building, including but not limited to framing members, foundations, and building stability.
K) Compressed air or other existing utility piping that is within the footprint of the new renovation.

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SPECIAL TERMS: (Refer Also To General Terms & Conditions - Attached)

The City of New London agrees that the Project Description, Design Services and Compensation sections contained in this Agreement, pertaining to this project or any addendum thereto, are considered confidential and proprietary, and shall not be released or otherwise made available to any third party, prior to the execution of this Agreement, without the expressed written consent of McMahon Associates, Inc.

COMPENSATION: (Does Not Include Permit Or Approval Fees)

McMahon Associates, Inc. agrees to provide plumbing design services as described above for the following compensation:

Design Services: $5,000.00
Construction Administration: $4,500.00

Total: Lump sum fee of $9,500.00

COMPLETION SCHEDULE:

McMahon Associates, Inc. agrees to complete this project as follows:

- Schedule shall be coordinated upon receipt of an executed copy of this Agreement.

ACCEPTANCE:

The General Terms & Conditions And The Scope Of Services (Defined In The Above Agreement) Are Accepted, and McMahon Associates, Inc. Is Hereby Authorized To Proceed With The Services.

The Agreement Fee Is Firm For Acceptance Within Sixty (60) Days From Date Of This Agreement.

NEW LONDON POLICE DEPT.
New London, Wisconsin
By: _____
(Authorized Signature)
Title:
Date: _____

McMAHON ASSOCIATES, INC.
Neenah, Wisconsin
By: _____
Thomas P. Kocken, P.E.
Title: Executive Vice President / Industrial Group Manager
Date: 1-30-2019
Project Manager: _____
Matt Wickstrom
Mechanical Systems Designer

Please Return One Copy For Our Records

Street Address: 1445 McMAHON DRIVE - NEENAH, WI 54956
Mailing Address: P.O. Box 1025 - NEENAH, WI 54957-1025
PH 920-751-4200 ▪ FX 920-751-4284 ▪ WWW.MCMGRP.COM

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Revised: August 29, 2018

McMAHON ENGINEERS ARCHITECTS McMAHON ASSOCIATES, INC. GENERAL TERMS & CONDITIONS

1. McMAHON ASSOCIATES, INC. (hereinafter referred to as 'McMAHON') will bill the Owner monthly with net payment due in 30-days. Past due balances shall be subject to a service charge at a rate of 1.0% per month. In addition, McMAHON may, after giving 48-hours notice, suspend service under any Agreement until the Owner has paid in full all amounts due for services rendered and expenses incurred. These expenses include service charges on past due invoices, collection agency fees and attorney fees incurred by McMAHON to collect all monies due McMAHON. McMAHON and Owner hereby acknowledge that McMAHON has and may exercise lien rights on subject property.

2. The stated fees and Scope Of Services constitute our best estimate of the fees and tasks required to perform the services as defined. This Agreement, upon execution by both parties hereto, can be amended only by written instrument signed by both parties. For those projects involving conceptual or process development services, activities often cannot be fully defined during initial planning. As the project progresses, facts uncovered may reveal a change in direction, which may alter the Scope. McMAHON will promptly inform the Owner in writing of such situations so changes in this Agreement can be negotiated, as required.

3. The stipulated fee is firm for acceptance by the Owner for 60-days from date of Agreement publication.

4. Costs and schedule commitments shall be subject to re-negotiation for delays caused by the Owner's failure to provide specified facilities or information, or for delays caused by unpredictable occurrences, including without limitation, fires, floods, riots, strikes, unavailability of labor or materials, delays or defaults by suppliers of materials or services, process shutdowns, acts of God or the public enemy, or acts or regulations of any governmental agency. Temporary delay of services caused by any of the above, which results in additional costs beyond those outlined, may require re-negotiation of this Agreement.

5. Reimbursable expenses incurred by McMAHON in the interest of the project including, but not limited to, equipment rental will be billed to the Owner at cost plus 10% and sub-consultants at cost plus 12%. When McMAHON, subsequent to execution of an Agreement, finds that specialized equipment must be purchased to provide special services, the cost of such equipment will be added to the agreed fee for professional services only after the Owner has been notified and agrees to these costs.

6. McMAHON will maintain insurance coverage in the following amounts:

Worker's Compensation	Statutory
General Liability	
Bodily Injury - Per Incident / Annual Aggregate	$1,000,000 / $2,000,000
Automobile Liability	
Bodily Injury	$1,000,000
Property Damage	$1,000,000
Professional Liability Coverage	$2,000,000

If the Owner requires coverage or limits in addition to the above stated amounts, premiums for additional insurance shall be paid by the Owner. McMAHON's liability to Owner for any indemnity commitments, reimbursement of legal fees, or for any damages arising in any way out of performance of our contract is limited to ten (10) times McMAHON's fee not to exceed to $500,000.

7. The Owner agrees to provide such legal, accounting and insurance counseling services as may be required for the project for the Owner's purpose. All unresolved claims, disputes and other matters in question between the Owner and McMAHON shall be submitted to mediation, if an agreement cannot be reached by Owner and McMAHON.

8. Termination of this Agreement by the Owner or McMAHON shall be effective upon 7-days written notice to the other party. The written notice shall include the reasons and details for termination; payment is due as stated in paragraph 1. If the Owner defaults in any of the Agreements entered into between McMAHON and the Owner, or if the Owner fails to carry out any of the duties contained in these terms and conditions, McMAHON may, upon 7-days written notice, suspend its services without further obligation or liability to the Owner unless, within such 7-day period, the Owner remedies such violation to the reasonable satisfaction of McMAHON.

9. Re-use of any documents or AutoCAD representations pertaining to this project by the Owner for extensions of this project or on any other project shall be at the Owner's risk and the Owner agrees to defend, indemnify and hold harmless McMAHON from all claims, damages and expenses, including attorneys' fees arising out of such re-use of the documents or AutoCAD representations by the Owner or by others acting through the Owner.

10. Purchase Orders - In the event the Owner issues a purchase order or other instrument related to the Engineer's services, it is understood and agreed that such document is for Owner's internal accounting purposes only and shall in no way modify, add to or delete any of the terms and conditions of this Agreement. If the Owner does issue a purchase order, or other similar instrument, it is understood and agreed that the Engineer shall indicate the purchase order number on the invoice(s) sent to the Owner.

11. McMAHON will provide all services in accordance with generally accepted professional practices. McMAHON will not provide or offer to provide services inconsistent with or contrary to such practices nor make any other warranty or guarantee, expressed or implied, nor to have any Agreement or contract for services subject to the provisions of any uniform commercial code. Similarly, McMAHON will not accept those terms and conditions offered by the Owner in its purchase order, requisition or notice of authorization to proceed, except as set forth herein or expressly accepted in writing. Written acknowledgment of receipt, or the actual performance of services subsequent to receipt, of any such purchase order, requisition or notice of authorization to proceed is specifically deemed not to constitute acceptance of any terms or conditions contrary to those set forth herein.

12. McMAHON intends to serve as the Owner's professional representative for those services, as defined in this Agreement, and to provide advice and consultation to the Owner as a professional. Any opinions of probable project costs, approvals and other decisions made by McMAHON for the Owner are rendered on the basis of experience and qualifications, and represent our professional judgment. Nothing contained in this Agreement shall create a contractual relationship with, or a cause of action, in favor of a third party against either the Architect or McMAHON.

13. This Agreement shall not be construed as giving McMAHON the responsibility or authority to direct or supervise construction means, methods, techniques, sequence or procedures of construction selected by Contractors or Subcontractors, or the safety precautions and programs incident to the work of the Contractors or Subcontractors.

14. The Owner shall be responsible for maintenance of the structure, or portions of the structure, which have been completed and have been accepted for its intended use by the Owner. All structures are subject to wear and tear, and environmental and man-made exposures. As a result, all structures require regular and frequent monitoring and maintenance to prevent damage and deterioration. Such monitoring and maintenance is the sole responsibility of the Owner. McMAHON shall have no responsibility for such issues or resulting damages.

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HVAC Assessment Report

New London Police Department
New London, WI

Prepared For The

City Of New London

January 3, 2019

McM. No. N0009-9-18-00776.00

MJW:lam

McMAHON 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

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HVAC Assessment Report

New London Police Department
New London, WI

Prepared For The

City Of New London

JANUARY 3, 2019

McM. No. N0009-9-18-00776.00

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HVAC Assessment Report

New London Police Department
New London, WI

Prepared For The

City Of New London

January 3, 2019

McM. No. P0011-9-18-00497.02

I. INTRODUCTION

McMahon Associates, Inc. (McMAHON) was requested by the City of New London to review the existing HVAC equipment and systems at the Police Department in New London, WI. McMAHON reviewed existing drawings provided by the City, visited the site, and reviewed the existing equipment and systems. Within this report is a description of the existing systems and their condition, a recommendation for scope of work, and an opinion of probable cost for any recommended scope.

II. EXISTING CONDITIONS

The existing HVAC system was installed in 1991. The ventilation system is served by a Carrier Air Handling Unit (AHU), and variable air volume (VAV) boxes with re-heat coils serving the various spaces throughout the building. An inline Greenheck return/exhaust separate from the air handling unit serves the return air system. The AHU has a direct expansion (DX) refrigerant coil, hot water pre-heat coil, and an

HVAC Assessment Report

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associated air cooled condensing unit located on grade outside of the space that serves the DX coil. The AHU, VAV boxes, return/exhaust fan, and hot water re-heat coils are original to the 1991 installation, but the DX refrigerant coil and condensing unit were replaced in 2016.

The heating hot water system is served by (2) 400,000 Btu/hr Burnham boilers in a primary/secondary configuration with dedicated boiler pumps, and (2) inline system pumps that serve the distribution loop. Taco is the manufacturer for all of the supporting hydronic equipment including pumps, expansion tank, air separator, etc. All of the hydronic equipment is original to the 1991 installation.

Throughout the building, there are hot water finned tube radiators that serve perimeter heating in areas with large glazing, or in bathrooms that have an exterior wall. The radiators were all original to the 1991 installation.

Each toilet bank has a dedicated exhaust fan that serves multiple toilets. Some of the fans are inoperable, currently. There are currently (4) exhaust fans on the roof that serve the toilet areas that are original to the 1991 installation. It was noted at the walk-through that one of the exhaust fans is currently inoperable with a bad motor.

The garage and non-occupied areas typically have gas-fired unit heaters that temper the space to keep them above freezing. There were no operational notes regarding the units, and all appeared to be original to the 1991 installation.

The existing temperature controls system is a pneumatic system, served by a single compressor located in the mechanical room. The temperature controls are original to the 1991 installation.

III. EXISTING SYSTEMS ANALYSIS

In determining the existing systems condition, ASHRAE life expectancy charts will be referenced, as it is the industry standard, and conditional analysis based on McMahon's site visit will be used to make recommendations.

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ASHRAE sets the following life expectancy for the equipment in service at the police department:

Air Handling Units with DX and Hot Water Coils:	20 years
Air Cooled Condensing Unit:	20 years
VAV Boxes with Hot Water Re-Heat Coils:	20 years
Hot Water Boilers:	25 years
Pumps (Inline):	10 years
Air Separators:	18 years
Expansion Tanks:	30 years
Controls (Pneumatic):	20 years
Ductwork:	30 years
Hot Water Piping (Copper):	30 – 40 years
Finned Tube Radiators:	25 years
Exhaust Fans:	20 years
Unit Heaters (Gas-Fired):	13 years

Based on these life expectancies, the majority of the equipment has exceeded its useful life expectancy. This does not include the new air cooled condensing unit, expansion tank, and HVAC system infrastructure (ducts and piping).

The major issue that was noted while onsite is that the temperature controls system is not working correctly, and requires maintenance on a regular basis. The equipment does not have operational issues beyond the lacking temperature controls system beyond normal preventative maintenance. This extends all the way down the individual thermostat controls in each space.

During the walk-through it was noted that the main system pumps serving the hot water system appear in poor condition; however, the rest of the hot water system (boilers, boiler pumps, expansion tank, air separator, piping, etc.) appear to be in fair condition, and do not have operational issues.

It was also noted that the exhaust fan serving the main locker area is currently out of service due to a bad motor.

IV. RECOMMENDATIONS

Based on the equipment conditions, and age of equipment, we recommend the following:

A. Immediate Replacement (1-2 Years)

Replace the existing temperature controls system and update the system to a direct digital control (DDC) or electronic system with a central station building automation system (BAS). The system will be fully expandable so that as equipment is replaced in the future, it can be seamlessly integrated into the BAS. Currently, we would recommend that the AHU, and

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ventilation components be replaced and added to the new BAS. This will require changing out the pneumatic thermostats throughout the building, replacing VAV box damper actuators, re-heat coil valve actuators, AHU control panel, internal controls, fan motor and VFD, and AHU valve and damper actuators. This would bring the building heating and cooling systems under control, and provide maintenance staff with a much better user interface to diagnose issues, and allow them to react to issues more quickly.

Replace the existing exhaust fans with new, similarly sized to meet current code requirements. This is a code issue, and proper exhaust is required to keep smells and moisture down, especially in locker and toilet rooms with showers. Further, the new exhaust fans could be added to the new BAS, which will help facility maintenance staff when there are outages or break-downs on the roof.

Replace the existing hot water distribution pumps with new, similarly sized. The pumps had a large amount of scale, and indications of recent leaks. To keep the hot water system running, and to prevent a mid-winter catastrophic break-down, it is recommended to replace the pumps before failure.

B. 2-5 Year Replacements

Replace the existing boilers with newer higher efficient boilers, and replace the rest of the hydronic support systems for the boilers. This will include the expansion tank, boiler pumps, air separator, etc. Once the boilers are replaced, they could be added to the new BAS system at that time. Replacing the boilers may also allow for some funding through Focus on Energy as the more modern boilers are far more efficient than existing.

C. 5-10 Year Replacements

Once the AHU and boilers have been replaced and added to the new BAS system, the next step would be to replace some of the smaller stand-alone systems throughout the building. This would include replacing finned tube radiation, providing new DDC control valves, replacing unit heaters, and replacing cabinet unit heaters in the vestibules.

V. OPINION OF PROBABLE COST

A. Immediate Replacement (1-2 Years)

- Replace existing AHU hot water and DX valves with new DDC valves, replace internal controls, damper actuators, and fan motor and VFD. Replace VAV box damper actuators and valve actuators with new DDC actuators, replace thermostats, and provide new expandable BAS head end with server and computer:
  $65,000.00
- Replace (4) exhaust fans:
  $8,000.00
- Replace (2) HW pumps:
  $5,000.00

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- Design engineering:
  $5,000.00
- Construction Services Bidding / Contract:
  $1,000.00
- Construction Administration:
  $3,500.00 ***TOTAL: $87,500.00***

B. **2-5 Year Replacements**

** Allow for 4% inflation for each year as that will affect the opinion of probable cost shown here.*

- Replace (2) boilers, pumps, and hydronic specialties:
  $75,000.00
- Design and engineering:
  $2,500.00
- Construction Services Bidding / Contract:
  $1,000.00
- Construction Administration:
  $3,500.00 ***TOTAL: $82,000.00***

C. **5-10 Year Replacements**

** Allow for 4% inflation for each year as that will affect the opinion of probable cost shown here.*

- Replace finned tube radiation:
  $12,000.00
- Replace (2) cabinet unit heaters:
  $5,000.00
- Replace (2) gas-fired unit heaters:
  $3,500.00
- Design and engineering:
  $2,000.00
- Construction Services Bidding / Contract:
  $1,000.00
- Construction Administration:
  $2,500.00 ***TOTAL: $26,000.00***

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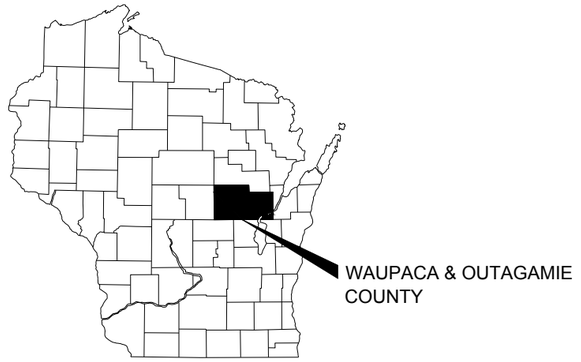
NEWTON BLACKMOUR STATE TRAIL EXTENSION
CITY OF NEW LONDON
JAN 2019

WAUPACA AND OUTAGAMIE COUNTY

NORTH



COUNTY MAP
NTS

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
G-1	TITLE SHEET
G-2	GENERAL SYMBOLS AND ABBREVIATIONS
G-3	GENERAL PROJECT NOTES AND PROJECT CONTACTS
TS-1	TYPICAL SECTIONS
C-101	TRAIL PLAN AND PROFILE
C-102	TRAIL PLAN AND PROFILE
C-103	TRAIL PLAN AND PROFILE
C-104	TRAIL PLAN AND PROFILE
C-105	TRAIL PLAN AND PROFILE
C-106	TRAIL PLAN AND PROFILE
C-107	TRAIL PLAN AND PROFILE
XS-201	CROSS SECTIONS (XS-201 THRU XS-255)

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1/14/2019
V:\Mun-GB\New London City of\25-0171.00 Newton Blackmour State Trail Preliminary Design\CADD\Sheets\Plan\010101-ti.dwg, Layout: G-1 TITLE SHEET

DES BY	AJE								NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	TITLE SHEET	SHEET NO. G-1
DR BY	AJE	PROJ NO	25-0171.00									
CHK BY	CRS	DATE	JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION			

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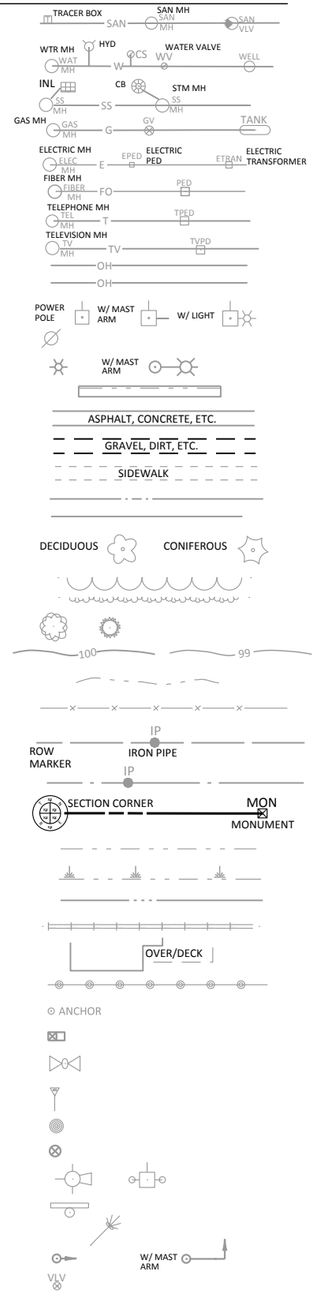
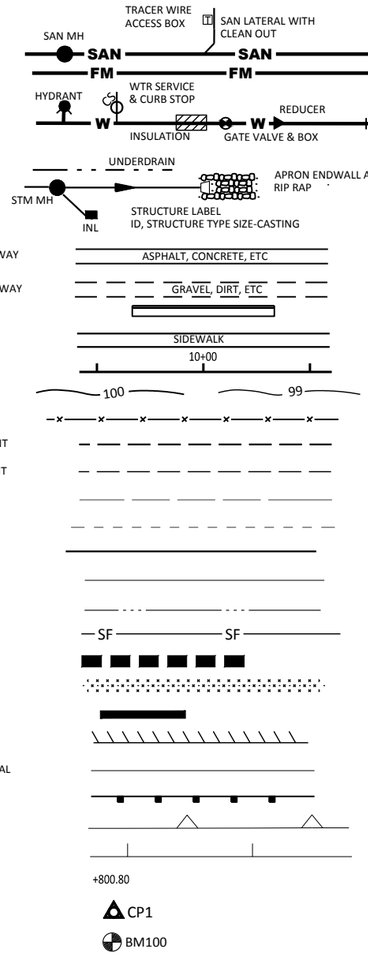
EXISTING

SANITARY SEWER
WATER MAIN
STORM SEWER
UNDERGROUND GAS
UNDERGROUND ELECTRIC
UNDERGROUND FIBER OPTIC
UNDERGROUND TELEPHONE
UNDERGROUND VIDEO
OVERHEAD ELECTRIC
OVERHEAD UTILITY
UTILITY POLES:
TELEPHONE POLE
LIGHT POLE
CURB AND GUTTER
HARD SURFACED ROADWAY
NON-SURFACED ROADWAY
SIDEWALK
STREET CENTERLINE
RETAINING WALL
TREES
TREE LINE
HEDGE OR BUSH LINE
BUSH / SHRUB
CONTOURS
DITCH
FENCE
RIGHT OF WAY
PROPERTY LINE
SECTION LINE
WETLAND
SWAMP EDGE
WATER'S EDGE
RAILROAD
BUILDING
GUARD RAIL
ANCHOR
CONTROL BOX
METER
PARKING METER
POLE
PULLBOX
RR SIGNAL FLASHER / BOX
SIGN
SPRINKLER HEAD
TRAFFIC SIGNAL
VALVE



NEW

SANITARY SEWER
FORCE MAIN
WATER MAIN
STORM SEWER
HARD SURFACE ROADWAY
NON-SURFACED ROADWAY
CURB AND GUTTER
SIDEWALK
BASELINE
CONTOURS
FENCE
PERMANENT EASEMENT
TEMPORARY EASEMENT
UTILITY EASEMENT
SETBACK
RETAINING WALL
POND
DITCH
SILT FENCE
EROSION BALES
EROSION MAT
EROSION LOG
SAW CUT
DEMOLITION / REMOVAL
GUARD RAIL
TOP OF CUT
TOP OF FILL
SPOT ELEVATION
CONTROL POINT
BENCHMARK



ABBREVIATIONS:

AB	ANCHOR BOLT
ABV	ABOVE
ADJ	ADJUST
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE WITH
ALT/	ALTERNATE
APPROX	APPROXIMATE
ASPH	ASPHALT
AUTO	AUTOMATIC
AVE	AVENUE
@	AT
B CRS	BASE COURSE
BC	BACK OF CURB
BD	BOARD
BEL	BELOW
BETWN	BETWEEN
BF	BACK FACE
BFV	BUTTERFLY VALVE
BIT	BITUMINOUS
BLD	BLIND
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BENCHMARK
BO	BREAKOFF
BRG	BEARING
BRK	BRICK
BS	BACK OF SIDEWALK
BTM	BOTTOM
BV	BALL VALVE
℄	BASELINE
B/	BOTTOM OF
C&G	CURB AND GUTTER
CB	CATCH BASIN
CF	CUBIC FOOT
CHKD P	CHECKERED PLATE
CI	CAST IRON
CJ	CONTROL JOINT
CL / ℄	CENTERLINE
CHL	CHLORINE
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
CONTR JT	CONTRACTION JOINT
COR	CORNER
CP	CONTROL POINT
CPLG	COUPLING
CRS	COURSE
CSP	CORRUGATED STEEL PIPE
CTG	CASTING
CTH	COUNTY TRUNK HIGHWAY
CULV	CULVERT
CV	CHECK VALVE
CW	COLD WATER
CY	CUBIC YARD
DEFL	DEFLECTION
DEG / °	DEGREE
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DN	DOWN
DP	DEPTH
DR	DOOR
DTL	DETAIL
DW	DRIVEWAY
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EFF	EFFLUENT
EJ	EXPANSION JOINT
EL	ELEVATION
ELB	ELBOW
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ER	END OF RADIUS
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FERT	FERTILIZER
F-F	FACE TO FACE
FGL	FIBERGLASS
FIN	FINISHED
FL	FLOWLINE
FLG	FLANGED
FLR	FLOOR
FM	FORCE MAIN
FN	FENCE
FT (')	FOOT
FTG	FOOTING
FUT	FUTURE
FV	FIELD VERIFY
G	GAS
GA	GAGE
GAR	GARAGE
GEN	GENERAL
GRD	GRADE, GROUND
GV	GATE VALVE
GRAV	GRAVEL
GW	GROUNDWATER
HB	HOSE BIB
HM	HOLLOW METAL
HORZ	HORIZONTAL
HSE	HOUSE
HT	HEIGHT
HW	HOT WATER
HWR	HOT WATER RETURN
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN (")	INCHES
INCL	INCLUDE
INF	INFLUENT
INL	INLET
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
JT	JOINT
KGV	KNIFE GATE VALVE
LAB	LABORATORY
LAV	LAVATORY
LC	LENGTH OF CURVE
LF	LINEAL FEET
LG	LENGTH
LOC	LOCATION
LP	LIGHT POLE
LR	LONG RADIUS
LS	LUMP SUM
LT	LEFT
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MP	MID POINT
MTL	MATERIAL
N	NORTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRIC
OF	OUTSIDE FACE
OH	OVERHEAD
OPG	OPENING
OT	OVERHEAD TELEPHONE
PC	POINT OF CURVE
PE	PRIVATE ENTRANCE
PED	PEDESTAL
PERF	PERFORATE
PI	POINT OF INTERSECTION
PKG	PARKING
P	PLATE
PL	PLACE
PL ℄	PROPERTY LINE
PP	POWER POLE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	POTABLE WATER
%	PERCENT
QTY	QUANTITY
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RD	ROOF DRAIN
RDWY	ROADWAY
RED	REDUCER
REF	REFERENCE
REINF	REINFORCING
REM	REMOVE
REPL	REPLACE
REQD	REQUIRED
REV	REVISED
RM	ROOM
RR	RAILROAD
RT	RIGHT
RW	RIGHT OF WAY
S	SOUTH
SAN	SANITARY
SAMH	SANITARY MANHOLE
SCH	SCHEDULE
SEC	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SPA	SPACE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSMH	STORM SEWER MANHOLE
ST	STREET
STD	STANDARD
STH	STATE TRUNK HIGHWAY
STL	STEEL
STM	STORM
STP	SEWAGE TREATMENT PLANT
SURF	SURFACE
SW	SIDEWALK
SWR	SEWER
SY	SQUARE YARD
SYS	SYSTEM
T&B	TOP & BOTTOM
TC	TOP BACK OF CURB
TELE	TELEPHONE
THK	THICKNESS
THRU	THROUGH
TP	TELEPHONE POLE
TYP	TYPICAL
T/	TOP OF
T/O/P	TOP OF PIPE
UG	UNDERGROUND GAS
UE	UNDERGROUND ELECTRICAL
UNEXC	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
USH	UNITED STATES HIGHWAY
UT	UNDERGROUND TELEPHONE
UV	UNDERGROUND VIDEO
V	VALVE
V&B	VALVE & BOX
VAR	VARIABLE
VER	VERTICAL
VC	VERTICAL CURVE
W	WEST
W/	WITH
W/O	WITHOUT
WD	WIDTH
WM	WATER MAIN
WS	WATER SURFACE
WTP	WATER TREATMENT PLANT
WTR	WATER
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH
WWTP	WASTEWATER TREATMENT PLANT

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

NON-EMERGENCY NUMBERS

XXXXXXX POLICE DEPARTMENT: (XXX) XXX-XXXX
XXXXXXX FIRE DEPARTMENT: (XXX) XXX-XXXX

WISCONSIN PUBLIC SERVCE EMERGENCY NUMBERS

NATURAL GAS: (800) 450-7280
ELECTRIC: (800) 450-7240

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DES BY	AJE							NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	GENERAL SYMBOLS AND ABBREVIATIONS	SHEET NO. G-2
DR BY	AJE	PROJ NO	25-0171.00								
CHK BY	CRS	DATE	JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION		

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GENERAL PROJECT NOTES

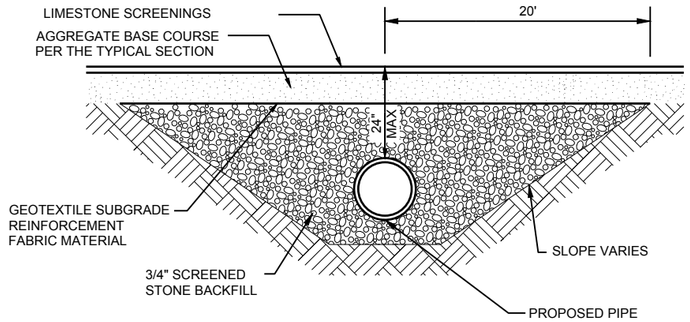
1. THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE A MINIMUM OF 72 HOURS PRIOR TO PERFORMING ANY EARTH MOVING OR EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL ALSO CONTACT ANY OTHER UTILITIES WHICH MAY BE PRESENT WHICH ARE NOT PART OF THE ONE CALL SYSTEM.
2. EXISTING BURIED UTILITIES SHOWN IN THE PLAN ARE INDICATED IN ACCORDANCE WITH THE AVAILABLE RECORDS AND FIELD INFORMATION AVAILABLE TO THE ENGINEER. OTHER UTILITIES MAY BE PRESENT. UTILITIES SHALL BE FIELD VERIFIED.
3. THE CONTRACTOR SHALL HAVE ON FILE WITH THE OWNER AND ENGINEER A CURRENT LIST OF 24 HOUR EMERGENCY TELEPHONE NUMBERS FOR THE CONTRACTORS SUPERVISORY PERSONNEL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING PROPERTY IRONS. PROPERTY IRONS REMOVED OR DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR AT NO COST TO THE OWNER.
5. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING CONSTRUCTION OF THE PROJECT.
6. THE OWNER RESERVES THE RIGHT TO CLAIM ANY SURPLUS OR EXCESS EXCAVATED MATERIAL. EXCESS OR SURPLUS MATERIAL NOT CLAIMED BY THE OWNER SHALL BE HAULED AWAY BY THE CONTRACTOR.
7. DISTURBING ANY AREAS OUTSIDE OF THE IMMEDIATE PROJECT AREA IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER IN THE FIELD.
8. THE OWNER RESERVES THE RIGHT TO ADJUST TRAIL ALIGNMENT IN THE FIELD TO MINIMIZE IMPACTS TO THE ENVIRONMENT.
9. NO TREES SHALL BE CUT PRIOR TO APPROVAL FROM ENGINEER OR OWNER IN THE FIELD.

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF NEW LONDON AND ENGINEER AT LEAST 2 DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION UNTIL THE SITE IS STABILIZED BY VEGETATION OR OTHER APPROVED MEANS.
3. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
4. STONE TRACKING PAD SHALL BE MAINTAINED PER SPECIFICATIONS AT ALL CONSTRUCTION ENTRANCES TO THE SITE.
5. OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING SOIL TRACKED BY CONSTRUCTION TRAFFIC, SHALL AT A MINIMUM, BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM ADJACENT STREETS BY THE USE OF MECHANICAL OR MANUAL SWEEPING OPERATIONS ONCE A WEEK AT A MINIMUM AND BEFORE IMMINENT RAIN EVENTS.
6. ALL SEDIMENT LADEN WATER PUMPED FROM THE SITE SHALL BE TREATED BY A TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS.
7. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LEFT INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER METHODS APPROVED BY THE ENGINEER. SILT FENCE SHALL BE PLACED AROUND ALL SOIL STOCK PILES.
8. WASTE MATERIAL GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO A RECEIVING WATER OR STORM SEWER SYSTEM.
9. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. ALL EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE FIRST THAW OR AS DIRECTED BY THE ENGINEER.
10. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF THE WORK DAY.
11. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5-INCHES OR MORE AND MAKE NEEDED REPAIRS. RECORD INSPECTIONS AS SPECIFIED.
12. DRAWINGS SHOW GENERAL LOCATION OF EROSION CONTROL DEVICES AND SIGNS. ACTUAL LOCATIONS MAY VARY AS DETERMINED BY ENGINEER IN THE FIELD.

PROJECT CONTACTS

NAME OF OWNER	ADDRESS	CONTACT PERSON	PHONE NUMBER	SERVICE
CITY OF NEW LONDON	215 N. SHAWANO AVENUE NEW LONDON, WI 54961	CHAD HOERTH	920-982-8500 x116	DIRECTOR OF PUBLIC SERVICES
AYRES ASSOCIATES	3376 PACKERLAND DRIVE ASHWAUBENON, WI 54115	CRAIG SCHUH	920-498-1200	PROJECT ENGINEER



SHALLOW PIPE BACKFILL

NTS

DES BY	AJE							
DR BY	AJE	PROJ NO	25-0171.00					
CHK BY	CRS	DATE	JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION

NEWTON BLACKMOUR STATE TRAIL EXTENSION
CITY OF NEW LONDON

AYRES ASSOCIATES
GREEN BAY, WISCONSIN

G-3 GENERAL PROJECT NOTES AND PROJECT CONTACTS

SHEET NO.

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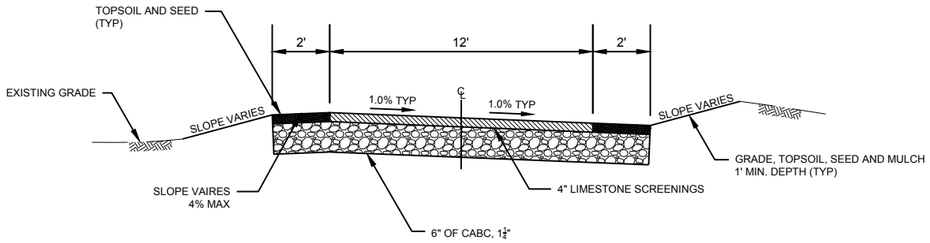
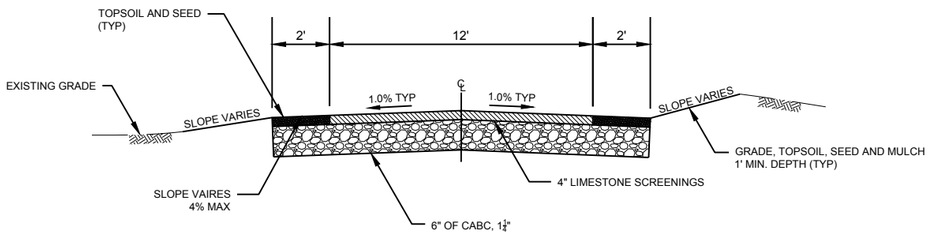


*NOTE: CROSS SLOPE DIRECTION VARIES, 2% MAX

PROPOSED TYPICAL SECTION

STA 12+00 - STA 44+75
STA 44+75 - STA 47+25 (BARRIER WALL AND RETAINING WALL)
STA 47+25 - 53+25 (BARRIER WALL)
STA 53+25 - STA 77+00



*NOTE: CROSS SLOPE DIRECTION VARIES, 2% MAX

PROPOSED TYPICAL SECTION

STA 77+00 - STA 96+75

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1/14/2019
V:\Mun-GB\New London City of\25-0171.00 Newton Blackmour State Trail Preliminary Design\CADDSheets\Plan\022301-ts.dwg, Layout: TS-1 TYPICAL SECTIONS

DES BY	AJE								NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	TYPICAL SECTIONS	SHEET NO. TS-1
DR BY	AJE	PROJ NO	25-0171.00									
CHK BY	CRS	DATE	JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION			

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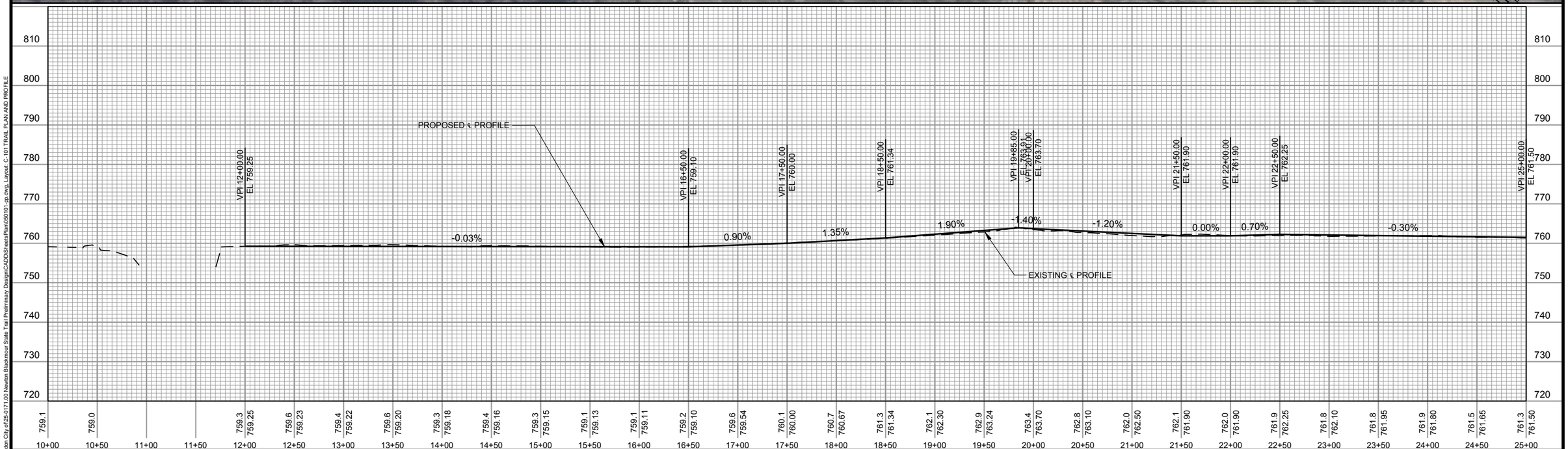

DES BY	AJE						NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	SHEET NO. C-101
DR BY	AJE	PROJ NO 25-0171.00							
CHK BY	CRS	DATE JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION	TRAIL PLAN AND PROFILE

1/14/2019
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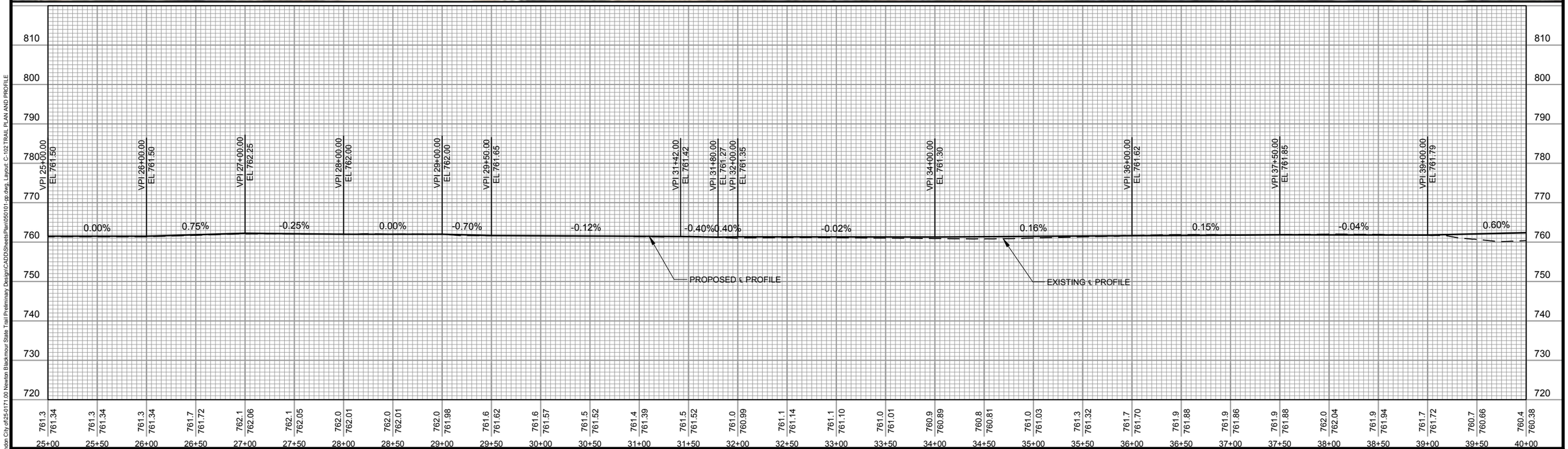

DES BY	AJE						NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	SHEET NO.
DR BY	AJE	PROJ NO 25-0171.00							TRAIL PLAN AND PROFILE	C-102
CHK BY	CRS	DATE JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION		

1/14/2019
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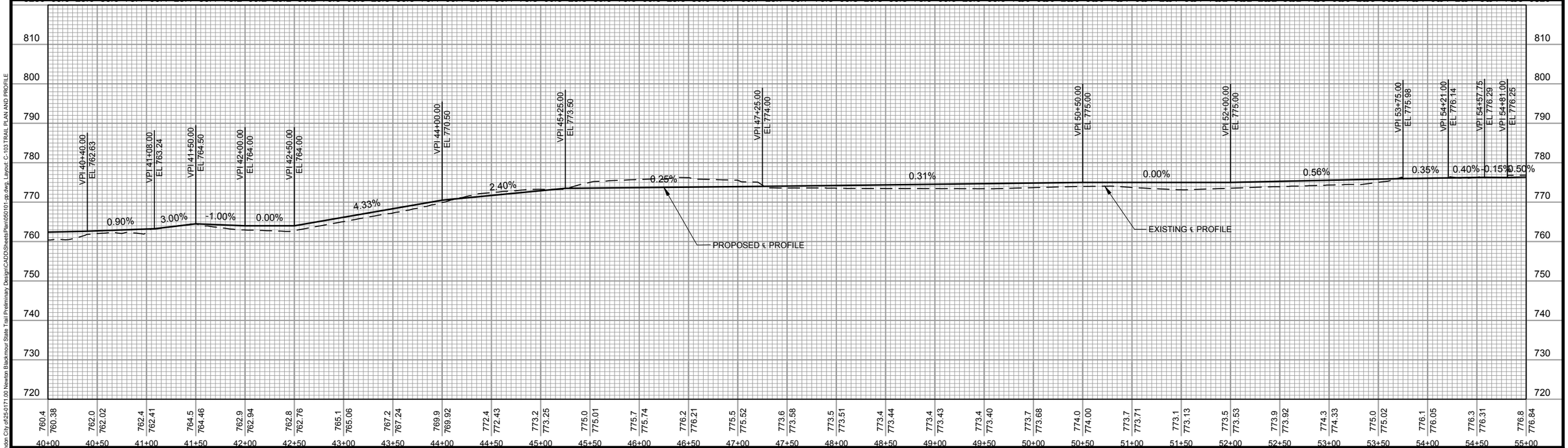

DES BY	AJE					NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	SHEET NO.
DR BY	AJE	PROJ NO	25-0171.00					TRAIL PLAN AND PROFILE	C-103
CHK BY	CRS	DATE	JAN 2019	NO	DATE	REVISION	NO DATE REVISION		

1/14/2019
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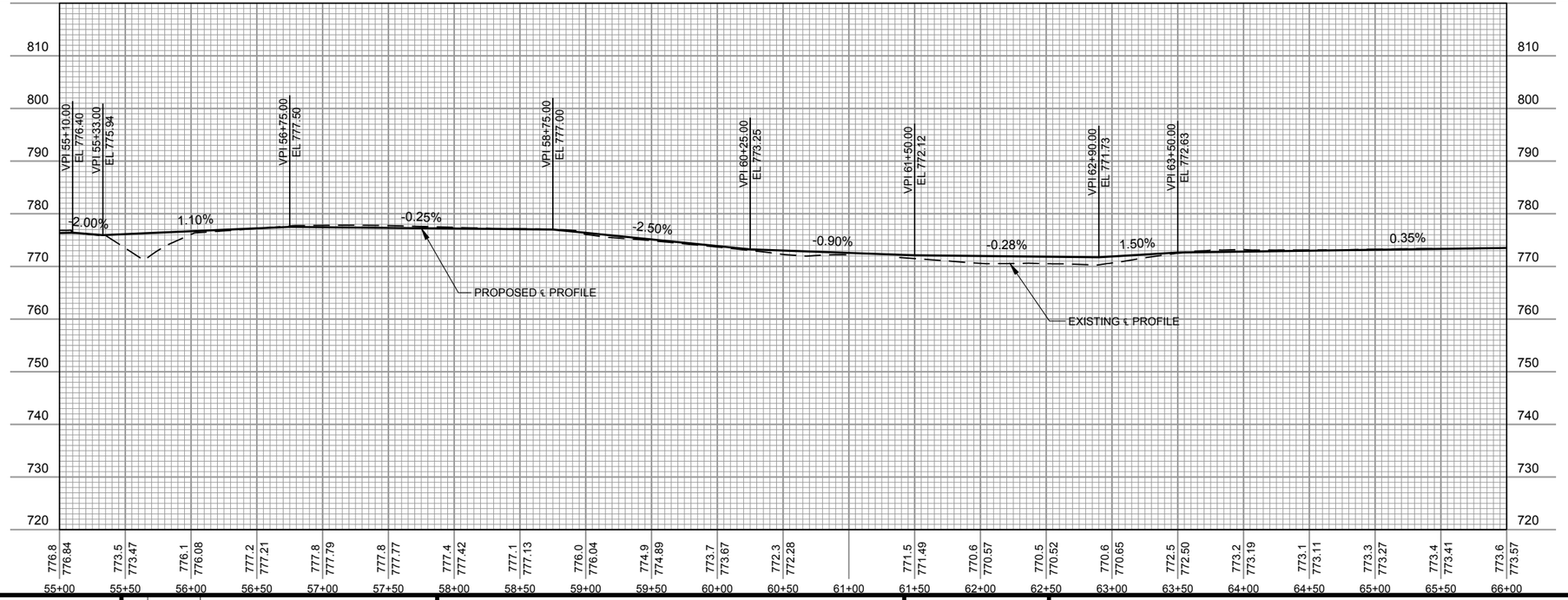

DES BY AJE						NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	TRAIL PLAN AND PROFILE	SHEET NO. C-104
DR BY AJE	PROJ NO 25-0171.00								
CHK BY CRS	DATE JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION		

1/14/2019
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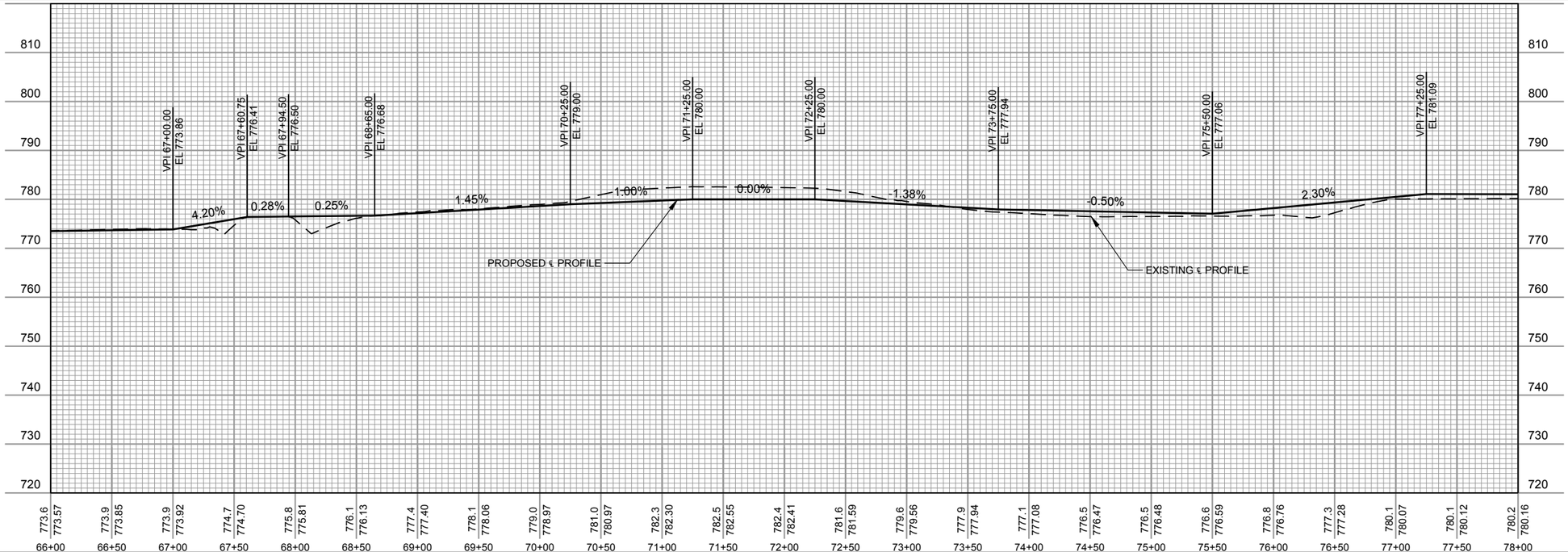

DES BY	AJE							NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	TRAIL PLAN AND PROFILE	SHEET NO. C-105
DR BY	AJE	PROJ NO	25-0171.00								
CHK BY	CRS	DATE	JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION		

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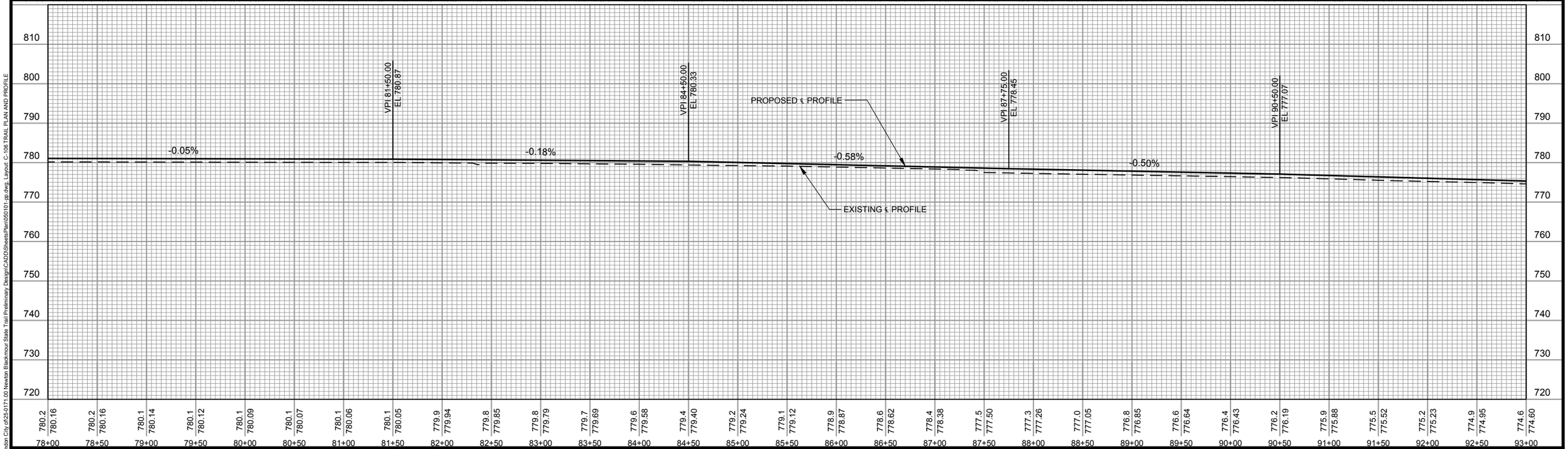

DES BY AJE						NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	SHEET NO.
DR BY AJE	PROJ NO 25-0171.00							TRAIL PLAN AND PROFILE	C-106
CHK BY CRS	DATE JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION		

1/14/2019
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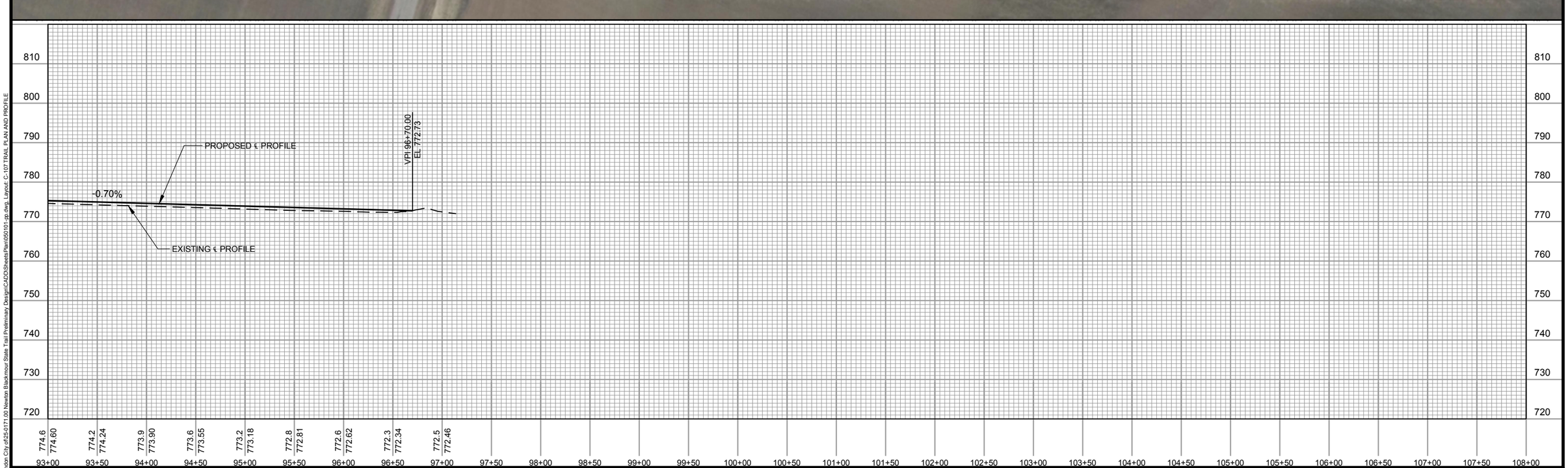

DES BY	AJE						NEWTON BLACKMOUR STATE TRAIL EXTENSION CITY OF NEW LONDON	AYRES ASSOCIATES GREEN BAY, WISCONSIN	TRAIL PLAN AND PROFILE
DR BY	AJE	PROJ NO	25-0171.00						SHEET NO. C-107
CHK BY	CRS	DATE	JAN 2019	NO	DATE	REVISION	NO	DATE	REVISION

1/14/2019
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