PLAN COMMISSION AMENDED

Wednesday, May 14, 2025 – 6:30 PM

Town Hall Meeting Room, 8348 Hickory Ave, Larsen, WI 54947

AGENDA

CALL TO ORDER

A. Pledge of Allegiance
B. Verification of Notice
C. Meeting Roll

PUBLIC HEARING(S) AND/OR PUBLIC INFORMATION MEETINGS

A. Plan Commission Public Hearing on a Conditional Use Application submitted by Larsen Winchester Sanitary District for a proposed utility installation, major accessory use located at 4861 Grandview Rd, specifically described as Tax ID #006-0511-02 & Tax ID #006-0515-01.

B. Plan Commission Public Hearing on a Re-zoning Application submitted by Trident Holdings, LLC on behalf of the Town of Clayton requesting approval to re-zone approximately 8.17 acres of Tax ID #006-0340-03-01 (immediately West of 9023 Clayton Ave) from A-2 (General Agriculture District) to B-2 (Community Business District).

APPROVAL OF MINUTES

A. Approval of the Minutes of the Wednesday, April 9, 2025 Plan Commission Meeting

OPEN FORUM – Public comments addressed to the Plan Commission

Individuals properly signed in may speak directly to the Plan Commission on non-repetitive Planning and Zoning matters whether on or not on the agenda. Commentators must wait to be called, must speak from the podium, directing their comments to the Commission. Comments must be orderly, and will be limited to a maximum of **2 minutes** per person. ***Public comment is not permitted outside of this public comment period. Note:*** The Commission's ability to act on or respond to the public comments is limited by Chapter 19, Wis. Stats. Please complete the "Request to Speak at Meeting" form located on the agenda/sign-in table and submit the form to the Town Clerk for in-person attendance.

CORRESPONDENCE

A. Distribution of the April 2025 Building Inspection Report

DISCUSSION ITEMS (NO ACTION WILL BE TAKEN)

A. Administrator's Report

BUSINESS

A. Review/Recommendation: Plan Commission review & recommendation on a Conditional Use Application submitted by Larsen Winchester Sanitary District for a proposed utility installation, major accessory use located at 4861 Grandview Rd, specifically described as Tax ID #006-0511-02 & Tax ID #006-0515-01.

B. Review/Recommendation: Plan Commission review & recommendation on a Site Plan Review Application submitted by Larsen Winchester Sanitary District for a proposed mechanical wastewater treatment plant located at 4861 Grandview Rd, specifically described as Tax ID #006-0511-02 & Tax ID #006-0515-01.

C. Review/Recommendation: Plan Commission review & consideration of Resolution 2025-001 making a Recommendation to the Town Board of Supervisors regarding a Re-zoning Application submitted by Trident Holdings, LLC on behalf of the Town of Clayton requesting approval to re-zone approximately 8.17 acres of Tax ID #006-0340-03-01 (immediately West of 9023 Clayton Ave) from A-2 (General Agriculture District) to B-2 (Community Business District).

D. Review/Recommendation: Plan Commission review & recommendation on a Site Plan Review Application submitted by Trident Holdings, LLC for a proposed commercial business development building located on Tax ID #006-0340-03-01 (immediately West of 9023 Clayton Ave) from A-2 (General Agriculture District) to B-2 (Community Business District).

UPCOMING MEETING ATTENDANCE

A. Plan Commission (6:30 pm start unless otherwise noted) - June 11; July 9; Aug 13
B. Town Board (6:30 pm start unless otherwise noted) - May 21; June 4 & 18; July 2 & 16
C. Board of Review - May 27 10 am

ADJOURNMENT

Respectfully submitted,

Dick Knapinski
Plan Commission Chair

Pursuant to Wisconsin Statute 19.84 (2) and (3) notice is hereby given to the public and the media that two or more members of any or all Boards, Commissions, and Committees of the Town of Clayton, may attend the meeting of the Plan Commission in order to gather information. For purposes of the Open Meetings Law only; attendance at a meeting by a quorum of members of the Town Boards, Commissions, and Committees constitutes a meeting of the Board, Commission, or Committee, pursuant to Badke Vs. Village Board of Village of Greendale, 173 Wis2d 553, 494 NW2d 408 (1993), and must be noticed as such, although it is not contemplated that any formal action by those bodies will be taken. The only business to be conducted is for Plan Commission action.

Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service, please call the Town Office at 920.836.2007.

This agenda has been posted at the following locations in the Town of Clayton:

1. The Town Hall Posting Board – 8348 Hickory Ave, Larsen, WI 54947
2. The Town's Web Page: --

TOWN OF CLAYTON
NOTICE OF PUBLIC HEARING

Notice is hereby given that the Plan Commission of the Town of Clayton will hold Public Hearings beginning at 6:30 pm on Wednesday, May 14, 2025 in the Town Office Meeting Room located at 8348 Hickory Ave, Larsen WI 54947. The purpose of the Public Hearing is to receive public comment regarding the following Conditional Use Application:

THE PETITIONER(S): Larsen Winchester Sanitary District (LWSD) have submitted a Conditional Use Application for a proposed utility installation, major accessory use located at 4861 Grandview Rd, specifically described as Tax ID #006-0511-02 & Tax ID #006-0515-01.

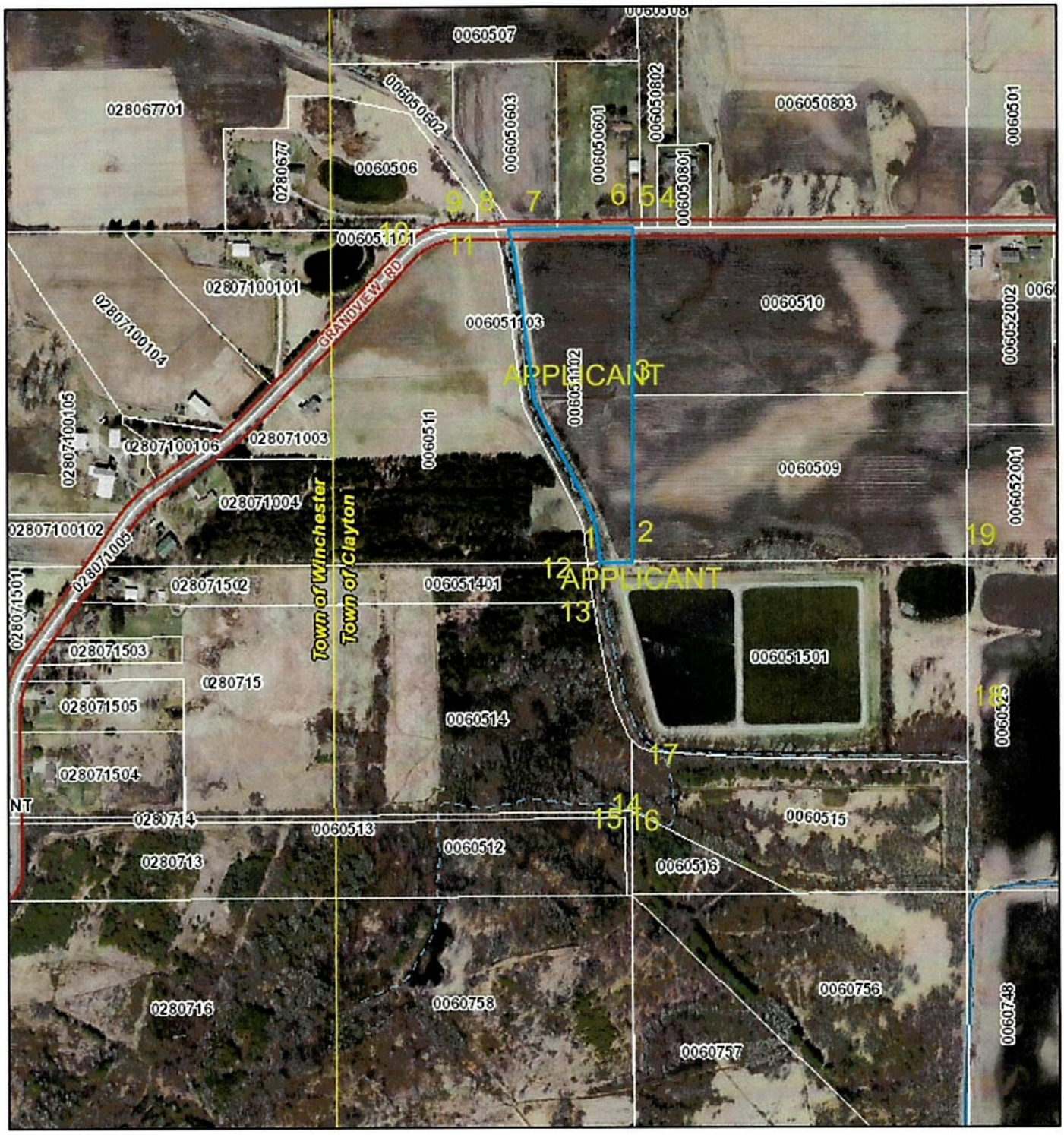
Copies of the Conditional Use Application are available at the Town Hall, or by contacting the Town Clerk at (920) 836-2007. All interested parties and any objections to this request being granted will be heard at the Public Hearings.

Dated this 29th day of April, 2025
Kelsey Faust-Kubale, Clerk

Publish Wednesday, April 30, 2025
and
Wednesday, May 7, 2025

Post on or before April 30, 2025

006-0511-02 & 006-0515-01 CUP



4/14/2025, 2:57:59 PM

1:6,657

0 0.05 0.1 0.2 mi

0 0.07 0.15 0.3 km

Adjacent Counties

Lakes, Ponds and Rivers

Navigable Waterways

Navigable - Permanent (unchecked)

Navigable - Intermittent (unchecked)

Navigable - Stream (unchecked)

Navigable - Permanent (checked)

Navigable - Intermittent (checked)

Navigable - Stream (checked)

Tax Parcel Boundary

Road ROW

Municipal Boundary

Winnebago County GIS, Nearmap, Imagery Date: April 2020

TOWN OF CLAYTON
NOTICE OF PUBLIC HEARING

Notice is hereby given that the Plan Commission of the Town of Clayton will hold a Public Hearing at 6:30 PM on Wednesday, May 14, 2025, in the Town Hall Meeting Room located at 8348 Hickory Ave, Larsen, WI 54947. The purpose of the Public Hearing is to receive public comment regarding the following Re-zoning Application:

THE PETITIONER(s): Trident Holdings, LLC on behalf of the Town of Clayton requests approval to re-zone Tax ID #006-0340-03-01 (immediately West of 9023 Clayton Ave). The application is to re-zone the approximately 8.17 acres of the listed parcel from A-2 (General Agriculture District) to B-2 (Community Business District).

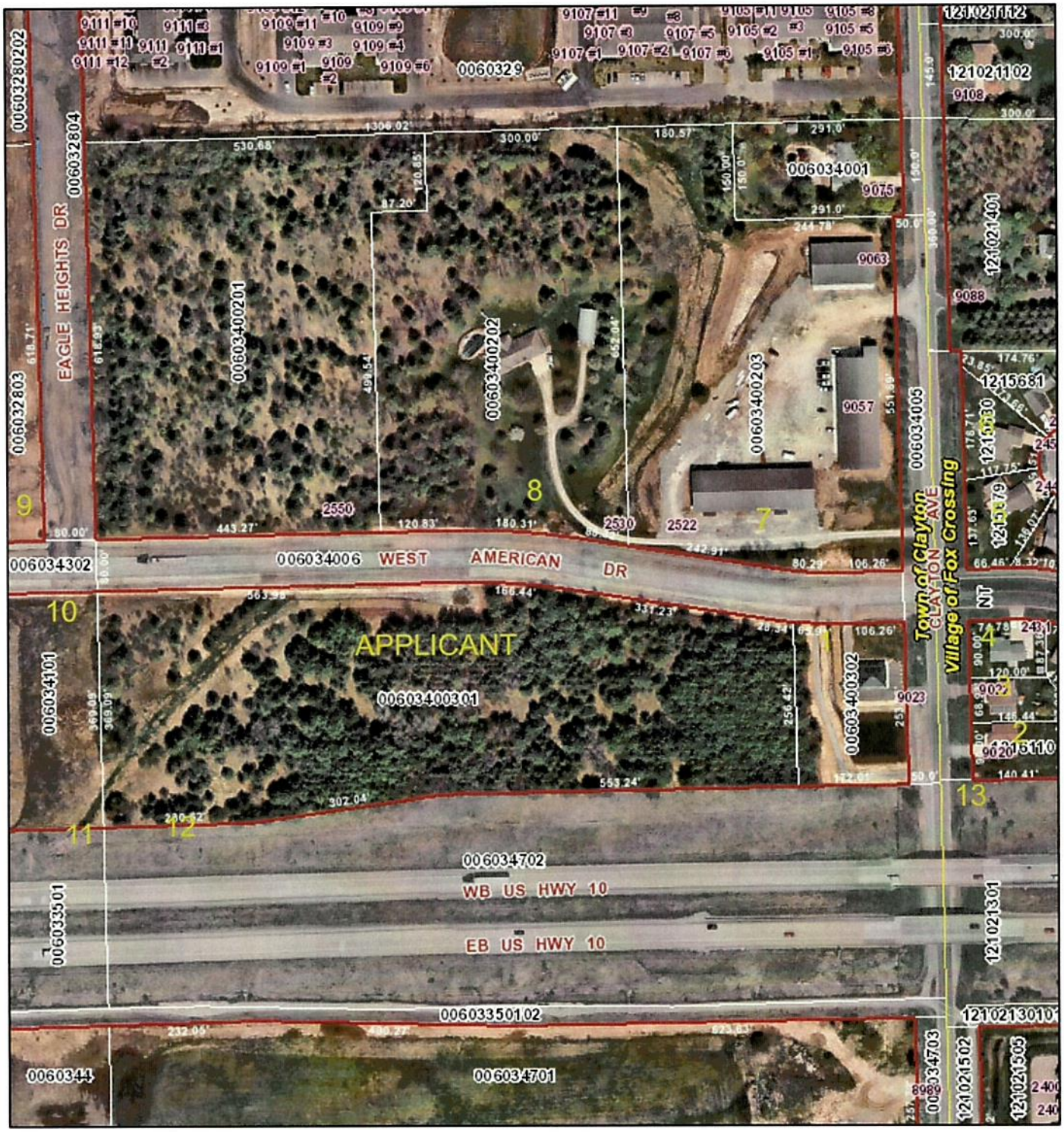
Copies of the Re-zoning Application are available at the Town Hall, or by contacting the Town Clerk at (920) 836-2007. All interested parties and any objections to this request being granted will be heard at the Public Hearing.

Dated this 29th day of April, 2025
By: Kelsey Faust-Kubale, Clerk

Publish on Wednesday, April 30, 2025
and
Wednesday, May 7, 2025

Post on or before April 30, 2025

006-0340-03-01 Re-zoning



PLAN COMMISSION

Wednesday, April 09, 2025 – 6:30 PM

Town Hall Meeting Room, 8348 Hickory Ave, Larsen, WI 54947

MINUTES

CALL TO ORDER – Chair Knapinski called the meeting to order at 6:30 pm

A. Pledge of Allegiance
B. Verification of Notice
C. Meeting Roll

PRESENT
Chair Knapinski
Commissioner Haskell
Commissioner Nemecek
Commissioner Ketter
Town Board Rep. Christianson

EXCUSED
Commissioner Hopkins

STAFF
Administrator Wisnefske
Clerk Faust-Kubale
Planner Jaworski
Code Administrator Kamke

APPROVAL OF MINUTES

A. Approval of the Minutes of the Wednesday, March 12, 2025 Plan Commission Meeting

MOTION
Motion made by Commissioner Nemecek, **Seconded** by Commissioner Haskell to approve the Minutes of the Wednesday, March 12, 2025 Plan Commission Meeting with a correction to page 3 spelling of Chair Knapinski's name.
Voting Yea: Chair Knapinski, Commissioner Haskell, Commissioner Nemecek, Commissioner Ketter, Town Board Rep. Christianson
Motion carried 5-0.

OPEN FORUM – Public comments addressed to the Plan Commission – NONE

CORRESPONDENCE

A. Distribution of the March 2025 Building Inspection Report

DISCUSSION ITEMS (NO ACTION WILL BE TAKEN)

A. Administrator's Report

BUSINESS

A. Review/Recommendation: Plan Commission review & recommendation on a CSM Review Application submitted by Timothy & Barbara Wrase on behalf of the Gustafson Residence Trust to combine Tax ID #006-1340-02 and Tax ID #006-1340-03 into one (1) lot.

MOTION

Motion made by Commissioner Haskell, **Seconded** by Commissioner Nemecek to recommend approval of the CSM Review Application submitted by Timothy & Barbara Wrase on behalf of the Gustafson Residence Trust with the following conditions:

1. The surveyor's certificate on sheet 2 shall be updated from "...comnined" to read "...certify that I have surveyed, combined, and mapped all of Lots 5 & 6..."
2. All structures located on Lot 5 must be noted & shown on the CSM prior to the Town granting signatures and recording.

Voting Yea: Chair Knapinski, Commissioner Haskell, Commissioner Nemecek, Commissioner Ketter, Town Board Rep. Christianson

Motion carried 5-0.

B. Review/Recommendation: Plan Commission review & recommendation on a Site Plan Review Application submitted by Robert E. Lee & Associates on behalf of PRE/3, LLC for construction of a multi-family housing development proposed to be located on Tax ID #006-0328-02-02.

MOTION

Motion made by Commissioner Ketter, **Seconded** by Commissioner Nemecek to recommend approval of a Site Plan Review Application submitted by Robert E. Lee & Associates on behalf of PRE/3, LLC with the following conditions:

1. Clayton Fire Rescue requires the turning radius to be shown on site plan drawings to demonstrate the corners can accommodate an aerial fire truck.
2. The lighting plan must be submitted, and fixtures must be shown to be Dark Sky Certified prior to approval.
3. The sign height must be adjusted to meet the 6 ft. ordinance maximum allowable height.
4. The setback of all structures, including on-site parking, of Building 1 must conform to the 40 ft. setback as required in Town Ordinance.
5. The Plan Commission recommends allowing exterior materials to cover 50% or more of all exterior wall surfaces in visual agreement with the existing Clayton Crossing development.
6. Applicant must provide specifications on the roofing materials prior to Town Board review, showing the Solar Reflective Index and that it conforms to the same roofing used in the Scholar Ridge development.
7. The proposed number of accessible parking stalls must meet the ordinance requirement of six (6).

Voting Yea: Chair Knapinski, Commissioner Haskell, Commissioner Nemecek, Commissioner Ketter, Town Board Rep. Christianson

Motion carried 5-0.

C. Review/Recommendation: Plan Commission review & recommendation on a Site Plan Application submitted by Wildflower Development for a proposed addition to the existing storage condominium development located on Tax ID #006-0895-06 (north of 7577 Black Top Way).

MOTION

Motion made by Commissioner Ketter, **Seconded** by Commissioner Nemecek to recommend approval of a Site Plan Application submitted by Wildflower Development with the following conditions:

1. The roofing material must meet or exceed the Town Solar Reflective Index standard.
2. Pond landscaping must comply with the design standards of Attachment E of the Town Zoning Ordinance.
3. Plan Commission recommends allowing the architectural standards to be consistent with previous phases.
4. The diagram on page 137 of the Condo Agreement must be updated.
5. The Town Board must be provided with the applicant responses to the 20 points the Commissioners wished to have addressed after the March 12, 2025 Plan Commission meeting.

Voting Yea: Chair Knapinski, Commissioner Nemecek, Commissioner Ketter, Town Board Rep. Christianson
Voting Nay: Commissioner Haskell
Motion carried 4-1.

D. Review/Recommendation: Plan Commission review & recommendation on a Concept Plan Review Application submitted by EnvisionInk Holdings LLC for a proposed expansion of the existing commercial building.

DISCUSSION ITEM ONLY - NO ACTION TAKEN

UPCOMING MEETING ATTENDANCE

A. Plan Commission (6:30 pm start unless otherwise noted) - May 14; June 11; July 9
B. Town Board (6:30 pm start unless otherwise noted) - Apr 16 **after Annual Reorganization Meeting**; May 7 & 21; June 4 & 18
C. 175th Annual Meeting of the Town's Electors - April 15, 2025 at 6:30 pm
D. Annual Reorganizational Meeting - April 16, 2025 at 6:00 pm
E. Open Book - May 13, 1 pm to 3 pm via phone scheduled appointments with Associated Appraisal
F. Board of Review - May 27 10 am to 12 pm

ADJOURNMENT

MOTION
Motion made by Commissioner Haskell, **Seconded** by Commissioner Nemecek to adjourn at 7:54 pm.
Voting Yea: Chair Knapinski, Commissioner Haskell, Commissioner Nemecek, Commissioner Ketter, Town Board Rep. Christianson
Motion carried 5-0.

Respectfully submitted,

Kelsey Faust-Kubale
Town Clerk

INTERMUNICIPAL REPORT APRIL 2025 PERMITTING

DATE	PERMIT #	OWNER	ADDRESS	DESCRIPTION	CONTRACTOR	EST. PROJECT COST	PERMIT FEE	BLDING INSPECTOR FEE
TOWN OF CLAYTON PERMITS:								
4/1/2025	61-25-4B	AARON MELOAN	8355 ST NORBERT	NSFD	ANM CONSTRUCITON	$ 300,000.00	$ 985.00	$ 788.00
4/7/2025	62-25-4P	BBS PROPERTIES	2668 & 2670 PRINCETON	NEW DUPLEX	ALL AREA PLUMB	$ 46,800.00	$ 485.46	$ 388.37
4/7/2025	63-25-4P	BBS PROPERTIES	2680 & 2682 PRINCETON	NEW DUPLEX	ALL AREA PLUMB	$ 46,800.00	$ 485.46	$ 388.37
4/7/2025	64-25-4E	DAVID SLEIK	7547 GREEN MEADOW	ADDN ELECT	EAGLE ELECT	$ 1,500.00	$ 115.62	$ 92.50
4/7/2025	65-25-4H	DAVID SLEIK	7547 GREEN MEADOW	ADDN HVAC	RYF HVAC	$ 2,000.00	$ 115.62	$ 92.50
4/7/2025	66-25-4P	DAVID SLEIK	7547 GREEN MEADOW	ADDN PLUMB	FORREST PLUMB	$ 3,000.00	$ 115.62	$ 92.50
4/9/2025	67-25-4B	JAKE IGEL	8469 WHISPERING MEADOWS	NSFD	SELF	$ 500,000.00	$ 950.00	$ 760.00
4/10/2025	68-25-4B	JEFF SMITH	7933 PRAIRIEWOOD	INGROUND POOL	POOL WORKS	$ 58,282.00	$ 150.00	$ 120.00
4/10/2025	69-25-4B	JEFF SMITH	7933 PRAIRIEWOOD	FINISH BASEMENT	SELF	$ 25,000.00	$ 282.85	$ 226.28
4/14/2025	70-25-4B	JOHN WALTHER	7794 JOSEPH PETERS DR	NSFD	CYPRESS HOMES	$ 705,000.00	$ 1,188.00	$ 950.40
4/14/2025	71-25-4B	ANNE COTE	2830 OAKRIDGE	INSTALL HOT TUB	SELF		$ 150.00	$ 120.00
4/15/2025	72-25-4E	DAVE LA BARGE	8031 HWY 76	SERVICE CHANGE	FIRST CLASS POWER	$ 1,500.00	$ 150.00	$ 120.00
4/21/2025	73-25-4B	GUY GRUETT	3146 LARSEN	RAZE HOUSE	TOM VAN HANDEL	$ 10,000.00	$ 100.00	$ 80.00
4/21/2025	74-25-4E	JOHN GILMOUR	8611 OAKWOOD	ELECT DETACHED GARAGE	EXCEL ELECT	$ 6,100.00	$ 167.20	$ 133.76
4/21/2025	75-25-4B	ROBERT MICHALKIEWICZ	8050 ROSEMARY	HOT TUB	SELF		$ 150.00	$ 120.00
4/21/2025	76-25-4B	MARCUS MCQUIRE	2669 & 2671 PRINCETON	NSFD	MARCUS MCGUIRE HOMES	$ 500,000.00	$ 1,223.00	$ 978.40
4/21/2025	77-25-4E	MARCUS MCQUIRE	2669 & 2671 PRINCETON	NSFD ELECTRIC	MARCUS MCGUIRE HOMES	$ 14,000.00	$ 734.60	$ 587.68
4/21/2025	78-25-4H	MARCUS MCQUIRE	2669 & 2671 PRINCETON	NSFD HVAC	MARCUS MCGUIRE HOMES	$ 14,000.00	$ 734.60	$ 587.68
4/21/2025	79-25-4P	MARCUS MCQUIRE	2669 & 2671 PRINCETON	NSFD PLUMBING	MARCUS MCGUIRE HOMES	$ 20,000.00	$ 734.60	$ 587.68
4/21/2025	80-25-4B	MARCUS MCQUIRE	2681 & 2683 PRINCETON	NSFD	MARCUS MCGUIRE HOMES	$ 500,000.00	$ 1,223.00	$ 978.40
4/21/2025	81-25-4E	MARCUS MCQUIRE	2681 & 2683 PRINCETON	NSFD ELECTRIC	MARCUS MCGUIRE HOMES	$ 14,000.00	$ 734.60	$ 587.68
4/21/2025	82-25-4H	MARCUS MCQUIRE	2681 & 2683 PRINCETON	NSFD HVAC	MARCUS MCGUIRE HOMES	$ 14,000.00	$ 734.60	$ 587.68
4/21/2025	83-25-4P	MARCUS MCQUIRE	2681 & 2683 PRINCETON	NSFD PLUMBING	MARCUS MCGUIRE HOMES	$ 20,000.00	$ 734.60	$ 587.68
4/22/2025	84-25-4B	DUSTIN KRAFT	8071 GOLDEN PRIMROSE CIR	POOL	VANDE HEY COMPANY	$ 150,000.00	$ 150.00	$ 120.00
4/22/2025	85-25-4E	LYNN STACKER	3065 FAIRVIEW RD	SERVICE CHANGE	ALAN'S ELECTRIC LLC	$ 2,500.00	$ 150.00	$ 120.00
4/22/2025	86-25-4E	ROCK SOLIDE PROP	8355 ST NORBERT DR	NSFD ELECTRIC	BADER ELECTRIC INC	$ 7,000.00	$ 556.70	$ 445.36
4/23/2025	87-25-4B	ROBERT MICHALKIEWICZ	8050 ROSEMARY	DETACHED GARAGE	AFFORDABLE CONTRACTING	$ 53,000.00	$ 236.40	$ 189.12
4/23/2025	88-25-4H	ROCK SOLID PROPERTIES	8355 ST NORBERT DR	NSFD HVAC	MATTHEWS HVAC	$ 10,000.00	$ 556.70	$ 445.36
4/23/2025	89-25-4E	JEFF SMITH	7933 PRAIRIEWOOD	REMOD ELECT	ZARDA ELECT	$ 2,500.00	$ 221.90	$ 177.52
4/23/2025	90-25-4P	JEFF SMITH	7933 PRAIRIEWOOD	REMOD PLUMB	WUNDERLICH PLUMB	$ 4,075.00	$ 221.90	$ 177.52
4/23/2025	91-25-4B	BRIAN LUEBKE	9378 BROAD MEADOW	BASEMENT REMOD	SELF	$ 3,500.00	$ 233.45	$ 186.76
4/23/2025	92-25-4E	BRIAN LUEBKE	9378 BROAD MEADOW	BASEMENT REMOD ELECT	SELF	$ 500.00	$ 122.30	$ 97.84
4/23/2025	93-25-4E	JOHN WALTHER	7794 JOSEPH PETERS DR	NSFD ELECTRIC	TEAM SERVICES	$ 19,440.00	$ 690.80	$ 552.64
4/23/2025	94-25-4P	JOHN WALTHER	7794 JOSEPH PETERS DR	NSFD PLUMBING	WATTERS PLUMB	$ 20,000.00	$ 690.80	$ 552.64
4/23/2025	95-25-4H	BBS PROPERTIES	2668&2670 PRINCETON	NSFD HVAC	CHRISTENSEN HVAC	$ 22,000.00	$ 485.46	$ 388.37
4/29/2025	96-25-4B	VANS REALTY	8387 ST NORBERT	NSFD	VANS REALTY	$ 360,000.00	$ 950.00	$ 760.00
4/30/2025	97-25-4H	JOHN WALTHER	7794 JOSEPH PETERS DR	NSFD HVAC	BAY AREA SERVICES	$ 22,475.00	$ 690.80	$ 552.64
4/30/2025	98-25-4E	BRIAN DOOLITTLE	7339 MURRAY	SERVICE CHANGE	CR FOCHS	$ 1,000.00	$ 150.00	$ 120.00
4/30/2025	99-25-4H	BBS PROPERTIES	2680 & 2682 PRINCETON	NSFD HVAC	CHRISTENSEN HVAC	$ 22,000.00	$ 485.46	$ 388.37
4/30/2025	100-25-4B	JUSTIN SCHROEDER	9449 MEMORY	NSFD	MIKE WILCOX CONST	$ 950,000.00	$ 1,991.55	$ 1,593.24
4/30/2025	101-25-4B	JUSTIN SCHROEDER	9449 MEMORY	DETACHED GARAGE	MIKE WILCOX CONST	$ 150,000.00	$ 570.00	$ 456.00
					TOTALS	**$4,601,972.00**	**$21,598.65**	**$17,278.92**
TOWN OF WINNECONNE PERMITS:								
4/14/2025	37-25-4B	HUISMAN HOMES	6674 FALCON	NSFD	HUISMAN HOMES	$ 440,000.00	$ 500.00	$ 400.00
4/14/2025		HUISMAN HOMES	6674 FALCON	TOWN FEES	HUISMAN HOMES		$ 610.00	
4/15/2025	38-25-4B	JOEL KLUESSENDORF	6461 BREEZE	REROOF	OVERHEAD SOLUTIONS	$ 16,794.00	$ 50.00	$ 40.00
4/15/2025	39-25-4B	LARRY MUELLER	6999 CLOW	DETACHED GARAGE	CLEARY BUILDINGS	$ 20,000.00	$ 95.50	$ 76.40
4/15/2025	40-25-4B	VERTICAL BRIDGE	6548 CTY M	CELL TOWER	KNOLLWOOD TECH	$ 300,000.00	$ 150.00	$ 120.00
4/30/2025	41-25-4E	CURT MARX	6445 PAULSEN	TEMP SERVICE	MK ELECT	$ 500.00	$ 60.00	$ 48.00
					TOTALS	**$ 777,294.00**	**$ 1,465.50**	**$ 684.40**

MEMORANDUM

Business Item A & B

From: Administrator/Staff
To: Plan Commission
Re: Plan Commission review & recommendation on a Conditional Use Application submitted by Larsen Winchester Sanitary District for a proposed utility installation, major accessory use located at 4861 Grandview Rd, specifically described as Tax ID #006-0511-02 & Tax ID #006-0515-01.

AND

Plan Commission review & recommendation on a Site Plan Review Application submitted by Larsen Winchester Sanitary District for a proposed mechanical wastewater treatment plant located at 4861 Grandview Rd, specifically described as Tax ID #006-0511-02 & Tax ID #006-0515-01.

Included in the packet are the state-approved plans, the Dept. of Safety & Professional Services, and the Dept. of Natural Resources supporting documents. Please note that a utility installation, major accessory use is regulated in the majority by the State, PSC, and other state-level departments. This is a private utility operating within the Town, and as such needs a Conditional Use Permit to continue to operate with this new/upgraded plant facility.

Suggested Motion(s):

Motion to recommend approval of the Conditional Use Application submitted by Larsen Winchester Sanitary District.

Motion to recommend approval of the Site Plan Review Application submitted by Larsen Winchester Sanitary District.

Respectfully Submitted,
Kelsey

Conditional Use Application

Town of Clayton Town Hall
8348 Hickory Ave
Larsen, WI 54947
Phone: 920-836-2007
Email: clerk@claytonwinnebagowi.gov
Website: https://www.townofclayton.net/

Property Owner(s)

Name LWSD – Scott Reif, Chairman

Street Address Po Box 85

City Larsen State WI Zip Code 54947

Phone 920-850-1405

E-mail Scott@reifsauto.com

Applicant:

Check: Architect: _____ Engineer: _____ Surveyor: _____ Attorney: _____ Agent: _____ Owner: X

Name: Scott Reif, Chairman

Address: Po Box 85 Larsen WI Zip Code: 54947

Phone: 920 850 1405 E-Mail: Scott@reifsauto.com

Describe the reason for the Conditional Use: Conversion of the current wastewater treatment plant to a mechanical wastewater treatment plant.

Conditional Use Specifies:

Number of Lots: 2 Parcels Total Acreage: 35.79 Tax Key #: 006-0511024
006-0515.01

Legal Description: See attached

Current Zoning: A2

I certify that the attached drawings are to the best of my knowledge complete and drawn in accordance with all Town of Clayton codes.

Applicant Signature: _____ Date: 4/14/25

For Town Use Only

Fee (see Town Fee Schedule)

Fee: $350 Check #: 3001 Receipt: 2752 Date: 4/14/25

Date Received Complete: 4/14/25 By: KMC CUP #: _____

Review Meetings - Plan Comm _____ Town Board _____

Newspaper Publication Dates: _____ & _____ Posting Date: _____

300ft Neighborhood Notice Distribution : _____

Conditional Use is: □Approved □Denied

Comments: _____

Notes: 1. Please notify utility companies regarding your proposed development. 2. A Conditional Use approval does not constitute approval of a building permit or any required approval of a highway connection permit. 3. A Conditional Use Application & Fee must be submitted 30 working days prior to meeting.

LARSEN-WINCHESTER SANITARY DISTRICT
WASTEWATER TREATMENT PLANT IMPROVEMENTS

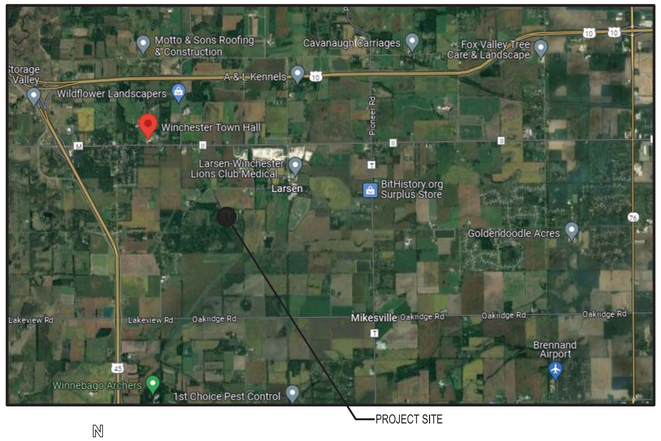
GRANDVIEW ROAD | LARSEN, WISCONSIN

CODE SUMMARY

2015 INTERNATIONAL BUILDING CODE (IBC), 2015 INTERNATIONAL MECHANICAL CODE (IMC) AND INTERNATIONAL ENERGY CONSERVATION CODE (IECC) WITH WISCONSIN AMENDMENTS APPLY TO THIS PROJECT IN ADDITION TO 2009 ICC / ANSI A117.1 'ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES'.

TYPE OF CONSTRUCTION (TABLE 601):	III-B
OCCUPANCY CLASSIFICATION (302.1):	U - Utility
ALLOWABLE HEIGHT (TABLE 504.3):	55 FEET
ALLOWABLE NO. STORIES (TABLE 504.4)	2 STORY
ALLOWABLE AREA (TABLE 506.2)	8500 SQ. FT.
ACTUAL HEIGHT AND AREA:	11'-0"; 1 STORY; 1524 GSF
FIRE PROTECTION (903.2):	NONE
FIRE RATINGS (TABLE 601)	
PRIMARY STRUCTURAL FRAME:	0 HOUR
BEARING WALLS:	0 HOUR
NON-BEARING WALLS:	0 HOUR
FLOOR CONSTRUCTION:	0 HOUR
ROOF CONSTRUCTION:	0 HOUR
EXTERIOR WALLS (TABLE 602):	0 HOUR
OCCUPANT LOAD (TABLE 1004.1.2)	MECHANICAL EQUIP ROOMS: 300 GSF/OCCUPANT 1526 GSF / 300 PER OCC. = 6 OCCUPANTS
EGRESS WIDTH (1005.3.2):	6 OCC. x 0.2 = 1.2 IN. (216 IN. PROVIDED)
EXIT ACCESS TRAVEL (TABLE 1017.2):	300 FEET (50 FEET ACTUAL)
COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1):	100 FEET
EMERGENCY EGRESS ILLUMINATION (1008.2.1)	MIN. 1.0 Fc
SANITARY FIXTURES (TABLE 2902.1): SEPARATE FACILITIES ARE NOT REQUIRED PER CH. 2902.2 (2) PROVIDED: 1 WATER CLOSET & 1 LAVATORY SINK DRINKING FOUNTAIN NOT REQUIRED BY CH. 2902.6 SERVICE SINK NOT REQUIRED PER TABLE 2902.1, EXCEPTION e.	BASED ON 6 OCCUPANTS

PROJECT LOCATION



N

TOWN OF LARSEN, WISCONSIN

NOT TO SCALE

SHEET INDEX

G1.0	COVER SHEET
C1.1-TOPO	TOPOGRAPHIC SURVEY
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C1.3	SITE PLAN - ZOOMED IN
C1.4	DEMOLITION PLAN
C2.1	UTILITY LAYOUT PLAN
C2.2	UTILITY LAYOUT PLAN - ZOOMED IN
C3.1	DRAINAGE PLAN
C4.1	EROSION CONTROL PLAN
C4.2	EROSION CONTROL DETAILS
C4.3	EROSION CONTROL DETAILS
C5.1	STANDARD DETAILS
C5.2	CONTROL STRUCTURES STANDARD DETAILS
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A1.1	FLOOR PLANS, DETAILS, AND NOTES
A2.1	ELEVATIONS, SCHEDULES, AND DETAILS
A3.1	BUILDING AND WALL SECTIONS
A4.1	STAIR SECTIONS
S1.1	STRUCTURAL NOTES AND DETAILS
S2.1	FOUNDATION PLAN AND DETAILS
S2.2	ROOF PLAN AND DETAILS
S2.3	POLISHING REACTOR TANK DETAILS
P-1	PLUMBING FLOOR PLANS
P-2	PLUMBING DIAGRAMS AND DETAILS
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H1.0	HVAC NOTE AND SCHEDULES
H1.1	HVAC FLOOR PLANS AND SECTIONS
E1.1	ELECTRICAL LIGHTING & POWER PLANS AND LIGHT FIXTURE SCHEDULE
E2.1	ELECTRICAL POWER DISTRIBUTION DIAGRAM AND DETAILS
E2.2	ELECTRICAL DETAILS AND SYMBOLS LIST

KEVIN B. SHUMANN A-7335 NEENAH WISCONSIN ARCHITECT

10/30/2024

Conditionally
APPROVED
DEPT. OF SAFETY AND PROFESSIONAL SERVICES
DIVISION OF INDUSTRY SERVICES

Randall R. Dahmen

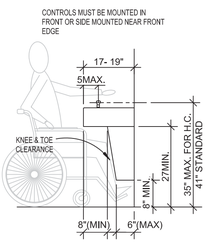
SEE CORRESPONDENCE

Transaction #: CB-122400487-PRBHNewBldg & HVACDecember 23, 2024

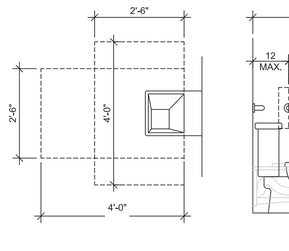
GENERAL PROJECT NOTES

1. REFER TO ALL DRAWINGS INCLUDING ARCHITECTURAL, SITE, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL REVIEW ALL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. SHOULD THERE BE A DISCREPANCY WITHIN AND BETWEEN THE DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
3. DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. USE GIVEN DIMENSIONS. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT FOR CLARIFICATION BEFORE COMMENCING THE WORK.
4. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT ARCHITECT BEFORE PROCEEDING WITH THE WORK.
5. CONTRACTORS SHALL PROVIDE STIFFENERS, BRACING, BACKING PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK AND MISCELLANEOUS EQUIPMENT WHETHER SUCH SUPPORTS ARE SHOWN OR NOT.
6. GC SHALL COORDINATE MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION FLOOR ROOF AND WALL SLEEVES AND SHAFTS WITH MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
7. ALL INTERIOR FINISHES MUST CONFORM TO 2015 INTERNATIONAL BUILDING CODE WITH WISCONSIN AMENDMENTS, CHAPTER 8 INTERIOR FINISHES, AND ALL OTHER APPLICABLE CODES AND ORDINANCES INCLUDING TABLE 803.11.

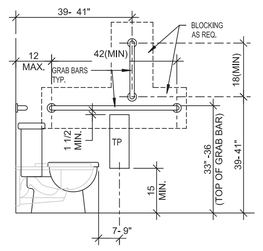
1. ALL SIGNAGE SHALL MEET THE REQUIREMENTS OF THE A.D.A. AND ANSI A117.1 SEC. 703 AND INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
2. A.D.A. TOILET ROOM SIGNAGE SHALL BE MOUNTED ON THE LATCH SIDE OF THE DOOR.
3. STANDARD MOUNTING HEIGHTS APPLY TO ALL DRAWINGS UNLESS INDICATED OTHERWISE.
4. GRAB BARS SHALL BE MOUNTED PLUMB AND LEVEL.
5. ALL DIMENSIONS SHOWN ARE TO FACE OF WALL.
6. SEE ENLARGED TOILET ROOM PLAN FOR A.D.A. ACCESSIBLE TOILET FIXTURE CLEAR FLOOR SPACE REQUIREMENTS.

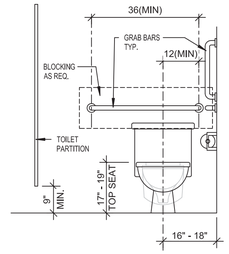


ADA DRINKING FOUNTAIN CLEARANCES

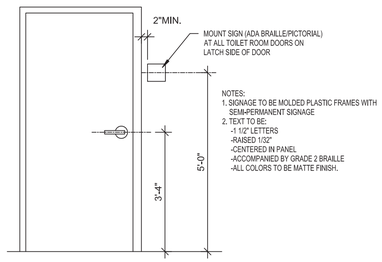


ADA DRINKING FOUNTAIN CLEAR SPACE

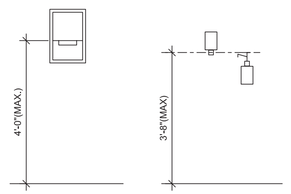




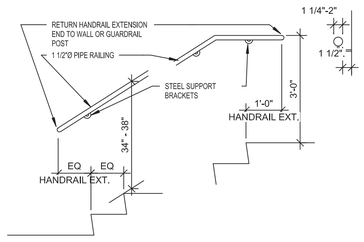
ADA TOILET FIXTURE CLEARANCES



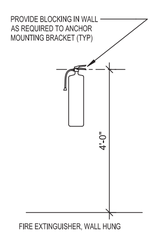
ADA TOILET ROOM SIGNAGE



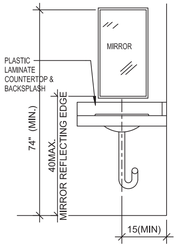
TOWEL DISPENSER SOAP DISPENSER



STAIR HANDRAIL EXTENSIONS



FIRE EXTINGUISHER



ADA COUNTERTOP DROP-IN SINK

TYPICAL BUILDING COMPONENT ELEVATIONS

FOR INFORMATION ONLY.

Martenson & Eisele, Inc.
1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381
Planning
Environmental
Surveying
Engineering
Architecture

NO.	DATE	DRAWN BY
1	12/17/2024	KBS

REVISION	CHECKED
DSPS ADDITIONAL INFORMATION ADDED	KBS

APPROVED MJM

LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

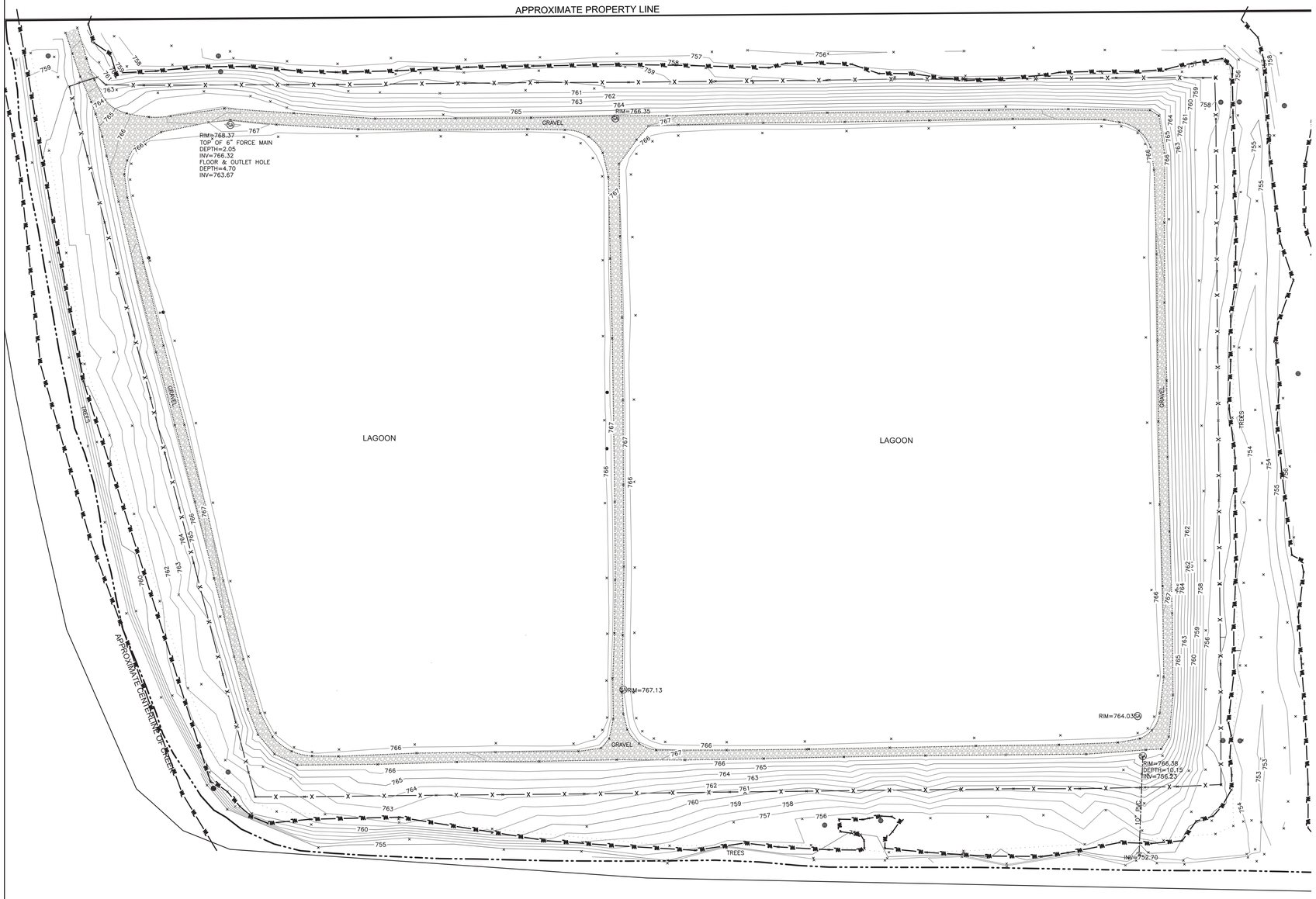
SCALE	DATE
-	10/16/2024

PROJECT NUMBER
1-0049-029

COVER SHEET, CODE, AND ACCESSIBILITY INFO.

DRAWING NO.
G1.0

TOPOGRAPHIC SURVEY



TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1-1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- PK NAIL FOUND
- 2" IRON PIPE FOUND
- GOVERNMENT CORNER
- RECORDED AS
- BUSH
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- FLAG POLE
- STORM CLEANOUT
- OVERHEAD POWER LINES
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBEROPTIC
- UNDERGROUND GAS
- UNDERGROUND CABLE TV
- EXIST. FENCE LINE
- RIPRAP
- SIGN
- POWER POLE
- GUY
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- ELECTRIC METER
- CABLE PEDESTAL
- GAS METER
- AIR CONDITIONER
- EXIST. HYDRANT
- WATER STOP BOX
- WATER VALVE
- MAIL BOX
- GAS VALVE
- EXIST STORM MANHOLE
- STORM INLET
- CATCH BASIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- EXIST. SPOT ELEVATION
- CONTOUR W/ ELEVATION
- EXIST. TOP OF CURB ELEV.
- EXIST. FLOW LINE ELEV.
- FF = 000.00 FIRST FLOOR = 000.00

TOPOGRAPHIC SURVEY NOTES

1. BASE SURVEY WAS PREPARED BY M&E, APRIL 2023. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND AVOID DAMAGE THERETO.
2. HORIZONTAL DATUM IS BASED ON WINNEBAGO COUNTY, WISCONSIN COUNTY COORDINATE SYSTEM.
3. ACCURACY CAN BE IMPACTED BY WINTER CONDITIONS, I.E. FROST HEAVE, SNOW AND ICE COVER. MARTENSON & EISELE, INC. MAKES NO WARRANTY FOR INACCURACIES CAUSED BY THESE WINTER CONDITIONS.

DIGGERS HOTLINE

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL 811 or
Toll Free 1-800-242-8511
(262)432-7910
Emergency Only (877) 500-9592
FAX 1-800-338-3860
FAX (414) 259-0947
Hearing Impaired TDD 1-800-542-2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

N

SCALE IN FEET
0 50 100

OWNER: LARSEN WINCHESTER SANITARY DISTRICT

PARCEL IDS: 006051501

CURRENT ZONING CLASSIFICATION: GENERAL AGRICULTURE DISTRICT (A-2)

Martenson & Eisele, Inc.
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Surveying
Engineering
Architecture
1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

DRAWN BY	CHECKED	APPROVED	FIELDWORK
LWL	MLR	GAZ	MLR

NO.	DATE	REVISIONS	NO.	DATE

TOPOGRAPHIC SURVEY
LWSD - WASTEWATER TREATMENT FACILITY
TOWN OF WINCHESTER, WINNEBAGO COUNTY, WISCONSIN.

SCALE	DATE
BARSCALE	APRIL2023

COMPUTER FILE
1-0049-027TOPO

DRAWING NO.
C1.1-TOPO

SITE PLAN

0 50 100
SCALE IN FEET
N

APPROXIMATE PROPERTY LINE

LEMNA POLISHING REACTOR
SEE SITE PLAN NOTE 5

LEMNA LEMTEC SYSTEM

CONTROL BUILDING

EXISTING BERM TO REMAIN

EXISTING LAGOON CELL #1
(TO REMAIN)

TOP OF BERM ELEV:	766.50
DESIGN WATER LEVEL ELEV:	763.50
BOTTOM ELEV:	758.50
TOTAL DEPTH:	8 FEET
EXISTING SIDE SLOPES:	3:1

EXISTING LAGOON CELL #2
(TO BE RE-GRADED)

TOP OF BERM ELEV:	766.25
DESIGN WATER LEVEL ELEV:	763.25
BOTTOM ELEV:	757.25
TOTAL DEPTH:	9 FEET
EXISTING SIDE SLOPES:	3:1

* TOP SOIL TO BE STRIPPED FROM BERM SIDE SLOPES TO BE HAULED OFF TO DESIGNATED STORAGE AREA AND PROTECTED BY SILT FENCE. SPREAD PRIOR TO SEEDING.

* EXISTING BERM TO BE REMOVED (SEE DRAINAGE PLAN SHEET C3.1)

EXISTING FENCE TO REMAIN

APPROXIMATE CENTERLINE OF CREEK

GRAVEL

TREES

SITE/PROJECT INFORMATION

PROPERTY ADDRESS:
LARSEN WINCHESTER SANITARY DISTRICT
GRANDVIEW ROAD
LARSEN, WI 54947
PARCEL ID: 006051501

OWNER/APPLICANT:

LARSEN WINCHESTER SANITARY DISTRICT
GRANDVIEW ROAD
LARSEN, WI 54947

ENGINEER:

MARTENSON & EISELE, INC.
ATTN: MARY JO MILLER, P.E.
1377 MIDWAY ROAD
MENASHA, WI 54952
maryjom@martenson-eisele.com
PHONE: 920-731-0381

ARCHITECT:

MARTENSON & EISELE, INC.
ATTN: KEVIN SCHUMANN, A.I.A.
1377 MIDWAY ROAD
MENASHA, WI 54952
kevins@martenson-eisele.com
PHONE: 920-731-0381

ZONING DATA

CURRENT ZONING DISTRICT:
A-2 GENERAL AGRICULTURE DISTRICT

NRCS SOILS

BoB – Borth Silty Clay Loam
Hydrologic Soil Type C
Mn – Menasha Clay
Hydrologic Soil Type D
Pt – Poy Silty Clay Loam
Hydrologic Soil Type C/D
Wm – Willette Muck
Hydrologic Soil Type C/D
ZtA – Zittau Silty Clay Loam
Hydrologic Soil Type C/D

LEGAL DESCRIPTION

PT S1/2 SW1/4 COM POB IN D366990 S8DG57E 122.78 FT S10DEG31E 207.7 FT S12DG20E 97.13 FT S13DG38E 120.25 FT S24DG28E 156.65 FT S48DG38E 56.28 FT S69DG02E 45.59 FT S86DG55E 376.85 FT E TO E L SW1/4 N TO N L W TO POB 22.75 acres, T20N-R16E, TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN.

PLAN KEY LEGEND

1. SANITARY SEWER MANHOLE (TYPICAL) — 7 / C5.1
2. CHEMICAL FEED MIXING MANHOLE WITH COURSE BUBBLE DIFFUSER — 2 / C5.3
3. SANITARY SEWER VALVE (TYPICAL)
4. AERATION PIPING VALVES
5. CONCRETE GENERATOR PAD (6" THICK – VERIFY SIZE WITH MANUFACTURE)
6. CONCRETE SAMPLER PAD (4'x4' – 6" THICK)
7. CONCRETE STOOP (SEE STRUCTURAL PLANS)
8. CONCRETE TRANSFORMER PAD – PROVIDED BY WPS (8.5'x7' – 6" THICK)
9. BOLLARD (TYPICAL) — 5 / A1.1
10. GAS METER – EAST SIDE OF BUILDING 12' SOUTH OF NE CORNER
11. ELECTRIC METER – EAST SIDE OF BUILDING 32' SOUTH OF NE CORNER

PAVEMENT KEY

PROPOSED GRAVEL (12" MIN. – 3/4" C.A.B.C.) — 1 / C5.1

SITE PLAN NOTES

1. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
2. ALL DIMENSIONS ARE TO THE EDGE OF BUILDING OR TOP OF BERM.
3. NO HAZARDOUS MATERIALS WILL BE STORED ON SITE.
4. THE CONTRACTOR AND/OR OWNER SHALL NOT PROCEED WITH LAND DISTURBING ACTIVITIES PRIOR TO RECEIVING WRITTEN NOTICE TO PROCEED FROM THE ENGINEER.
5. SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR LEMNA POLISHING REACTOR CONCRETE TANK AND RAILING DETAILS.

TOPOGRAPHIC LEGEND

1" x 18" IRON PIPE SET	OVERHEAD POWER LINES
1-1/4" x 30" REBAR SET	UNDERGROUND ELECTRIC
CHISELED "X" SET	UNDERGROUND TELEPHONE
3/4" REBAR FOUND	UNDERGROUND FIBEROPTIC
1" IRON PIPE FOUND	UNDERGROUND GAS
1-1/4" REBAR FOUND	UNDERGROUND CABLE TV
2" IRON PIPE FOUND	EXIST. FENCE LINE
CHISELED "X" FOUND	SIGN
GOVERNMENT CORNER	POWER POLE
RECORDED AS	GUY
CONIFEROUS TREE	LIGHT POLE
DECIDUOUS TREE	TELEPHONE PEDESTAL
EXIST. WOODS LINE	ELECTRIC PEDESTAL
WETLANDS	CABLE PEDESTAL
SOIL BORING	EXIST. HYDRANT
	WATER VALVE
	WATER STOP BOX
GAS VALVE	
EXIST STORM MANHOLE	
STORM INLET	
YARD DRAIN	
EXIST SANITARY MANHOLE	
EXIST. SAN. SEWER	
EXIST. STO. SEWER	
EXIST. WATER MAIN	
EXIST. SPOT ELEVATION	
CONTOUR W/ ELEVATION	
EXIST. TOP OF CURB ELEV.	
EXIST. FLOW LINE ELEV.	
FIRST FLOOR = 000.00	
TOPSOIL DEPTH	
INFILTRATION SOIL BORING	

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920.731.0381 1.800.236.0381

DRAWN BY	CHECKED	APPROVED	FIELDWORK
CRC	JJR	MJM	JFS

** REFER TO COVER SHEET FOR REVISION DESCRIPTIONS **

NO.	DATE	NO.	DATE	NO.	DATE
1	06/11/24				

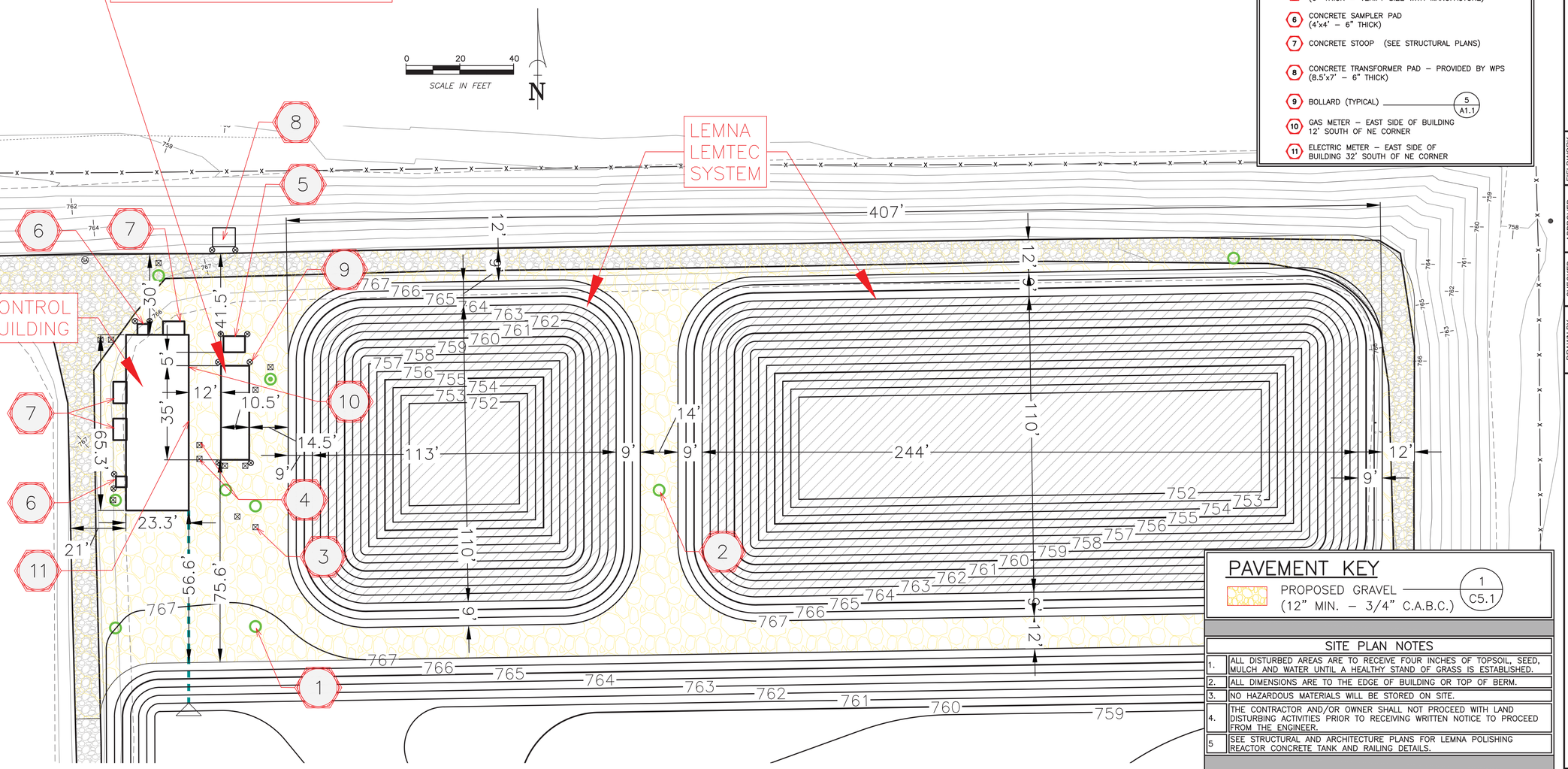
SITE PLAN
LARSEN WINCHESTER SANITARY DISTRICT WWTP IMPROVEMENTS
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

COMPUTER FILE
Civil3D\Eng\1-0049-029de.dwg

DRAWING NO.
C1.2

SITE PLAN - ZOOMED IN



PLAN KEY LEGEND

1. SANITARY SEWER MANHOLE (TYPICAL) — 7 / C5.1
2. CHEMICAL FEED MIXING MANHOLE WITH COURSE BUBBLE DIFFUSER — 2 / C5.3
3. SANITARY SEWER VALVE (TYPICAL)
4. AERATION PIPING VALVES
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7. CONCRETE STOOP (SEE STRUCTURAL PLANS)
8. CONCRETE TRANSFORMER PAD – PROVIDED BY WPS (8.5'x7' – 6" THICK)
9. BOLLARD (TYPICAL) — 5 / A1.1
10. GAS METER – EAST SIDE OF BUILDING 12' SOUTH OF NE CORNER
11. ELECTRIC METER – EAST SIDE OF BUILDING 32' SOUTH OF NE CORNER

PAVEMENT KEY

PROPOSED GRAVEL (12" MIN. – 3/4" C.A.B.C.) — 1 / C5.1

SITE PLAN NOTES

1. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
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5. SEE STRUCTURAL AND ARCHITECTURE PLANS FOR LEMNA POLISHING REACTOR CONCRETE TANK AND RAILING DETAILS.

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1–1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1–1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- ( ) RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- SOIL BORING
- OH — OVERHEAD POWER LINES
- E — E — UNDERGROUND ELECTRIC
- T — T — UNDERGROUND TELEPHONE
- FIBER — UNDERGROUND FIBEROPTIC
- G — G — UNDERGROUND GAS
- CATV — UNDERGROUND CABLE TV
- X — X — EXIST. FENCE LINE
- SIGN
- POWER POLE
- GUY
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- CABLE PEDESTAL
- EXIST. HYDRANT
- WATER VALVE
- WATER STOP BOX
- GAS VALVE
- EXIST STORM MANHOLE
- STORM INLET
- YARD DRAIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- 000.00 — EXIST. SPOT ELEVATION
- 000 — CONTOUR W/ ELEVATION
- 000.00tw — EXIST. TOP OF CURB ELEV.
- 000.00fl — EXIST. FLOW LINE ELEV.
- FF = 000.00 — FIRST FLOOR = 000.00
- TOPSOIL DEPTH
- INFILTRATION SOIL BORING

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DRAWN BY	CHECKED	APPROVED	FIELDWORK
CRC	LJR	MJM	JFS

** REFER TO COVER SHEET FOR REVISION DESCRIPTIONS **

NO.	DATE	NO.	DATE	NO.	DATE
1	06/11/24				

SITE PLAN - ZOOMED IN
LARSEN WINCHESTER SANITARY DISTRICT
WWTP IMPROVEMENTS

TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

COMPUTER FILE
Civil3D\Eng\1-0049-029de.dwg

DRAWING NO.
C1.3

DEMOLITION PLAN

0 50 100
SCALE IN FEET
N

ONCE FORCEMAINS HAVE BEEN EXTENDED AND NEW SYSTEM IS OPERATIONAL, REMOVE EXISTING SANITARY STRUCTURE AND CONNECT NEW FORCEMAINS TO EXISTING FORCEMAINS. PLUG INFLUENT PIPING INTO EXISTING LAGOON CELL #1.

6" FORCE MAIN

4" FORCE MAIN

APPROXIMATE PROPERTY LINE

REMOVE EXISTING SANITARY STRUCTURE. PLUG EXISTING PIPING TO BE ABANDONED.

RIM=766.35

GRAVEL

RIM=768.33
TOP OF 6" FORCE MAIN
DEPTH=2.05
INV=766.32
FLOOR & OUTLET HOLE
DEPTH=4.70
INV=763.67

CONTROL MH 1

INFLUENT PAD

INFLUENT PAD

LOCATE & REMOVE EXISTING PIPING, AND 2 INFLUENT PADS UNDER PROPOSED BUILDING, AND GRAVEL AREAS. PLUG PIPING TO REMAIN TO SOUTH.

REMOVE EXISTING CHAIN-LINK FENCE IN THIS AREA TO ACCESS SITE AS NEEDED. REINSTALL FENCE WHEN COMPLETE.

LAGOON

LAGOON

TREES

GRAVEL

APPROXIMATE CENTERLINE OF DITCH

EFFLUENT PAD

CONSTRUCT 60' WIDE EMERGENCY WEIR

REMOVE EXISTING STRUCTURE. PLUG EXISTING PIPING TO BE ABANDONED.

RIM=767.13
CONTROL MH 2

REMOVE EXISTING STRUCTURES OUTFALL PIPING

RIM=764.03
CONTROL MH 3

RIM=766.58
DEPTH=10.15
INV=756.23
METERING MH

10" PVC

INV=752.70

REMOVE EXISTING CHAIN-LINK FENCE IN THIS AREA TO ACCOMMODATE GRADING. RE-INSTALL FENCE AFTER PROPOSED GRADING IS COMPLETE (500 L.F.)

4" TOPSOIL CHANNEL SEED MIX
TURF REINFORCEMENT MAT (TRM):
CLASS I, TYPE-B

ELEV. 766.50 — ELEV. 76.50
20.0'
ELEV. 763.50
60.0'

EMERGENCY/WEIR OUTLET STRUCTURE

DEMOLITION PLAN NOTES

1. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
2. THE CONTRACTOR AND/OR OWNER SHALL NOT PROCEED WITH CONSTRUCTION ACTIVITIES UNTIL APPROPRIATE PERMITS/APPROVALS ARE OBTAINED.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS FOR CONSTRUCTION.
4. THE CONTRACTOR SHALL CLEAN UP ALL EXCESS MATERIAL AND DEBRIS CAUSED AS A RESULT OF WORK UNDER THIS CONTRACT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT.
6. CONTRACTOR SHALL DISPOSE OF NON-SUITABLE MATERIAL OFF-SITE.
7. EXISTING PIPING IS AS SHOWN IN ORIGINAL STABILIZATION POND SYSTEM PLANS AND MAY NOT BE AS CONSTRUCTED.

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1-1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1-1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- SOIL BORING
- OVERHEAD POWER LINES
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBEROPTIC
- UNDERGROUND GAS
- UNDERGROUND CABLE TV
- EXIST. FENCE LINE
- SIGN
- POWER POLE
- GUY
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- CABLE PEDESTAL
- EXIST. HYDRANT
- WATER VALVE
- WATER STOP BOX
- GAS VALVE
- EXIST STORM MANHOLE
- STORM INLET
- YARD DRAIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- EXIST. SPOT ELEVATION
- CONTOUR W/ ELEVATION
- EXIST. TOP OF CURB ELEV.
- EXIST. FLOW LINE ELEV.
- FIRST FLOOR = 000.00
- TOPSOIL DEPTH
- INFILTRATION SOIL BORING

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** REFER TO COVER SHEET FOR REVISION DESCRIPTIONS **					
NO.	DATE	NO.	DATE	NO.	DATE
1	06/11/24				

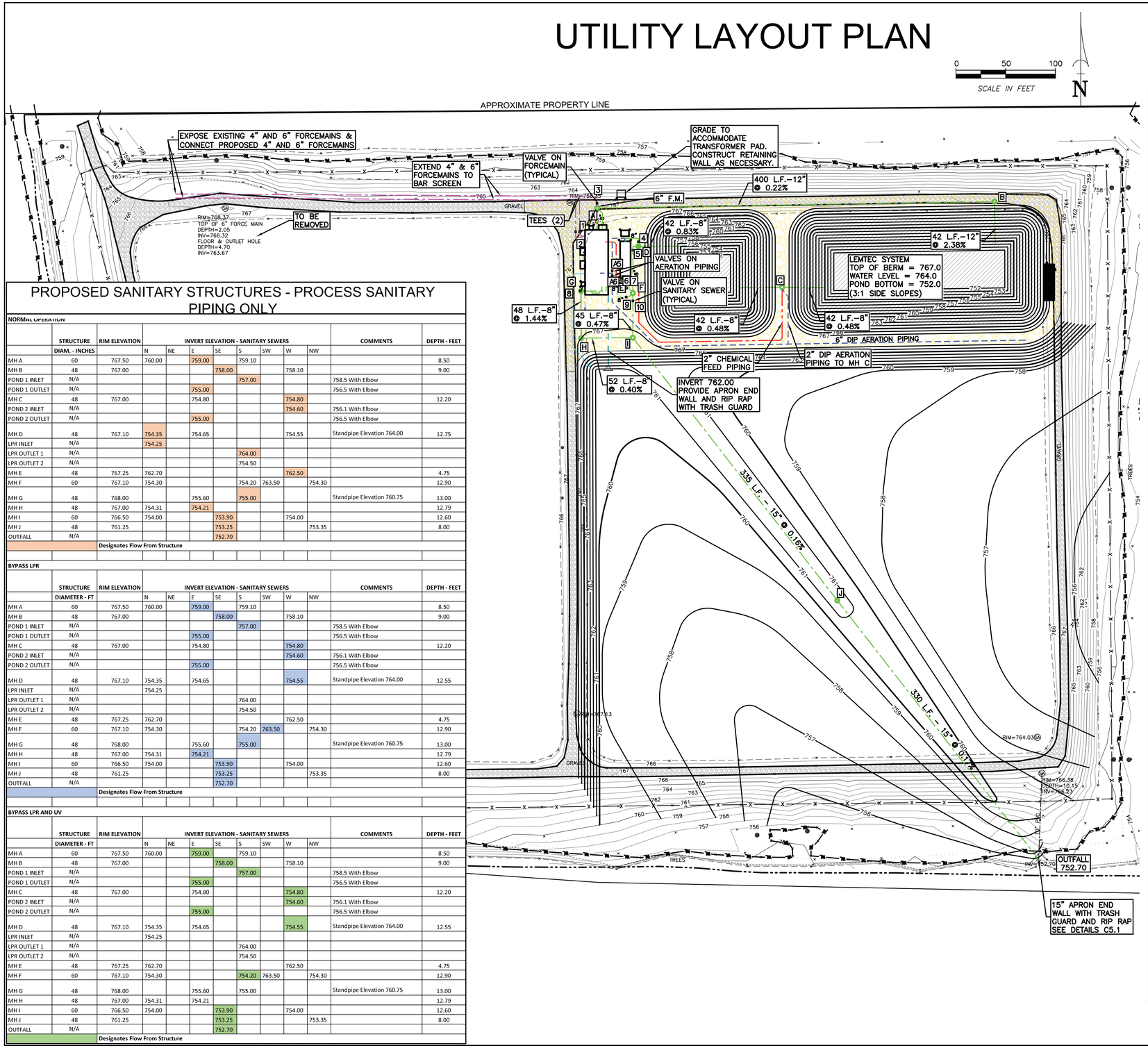
DEMOLITION PLAN
LARSEN WINCHESTER SANITARY DISTRICT WWTP IMPROVEMENTS
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

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C1.4

UTILITY LAYOUT PLAN



PROPOSED SANITARY STRUCTURES - PROCESS SANITARY PIPING ONLY

NORMAL OPERATION

	STRUCTURE	RIM ELEVATION	INVERT ELEVATION - SANITARY SEWERS								COMMENTS	DEPTH - FEET
	DIAM. - INCHES		N	NE	E	SE	S	SW	W	NW		
MH A	60	767.50	760.00		759.00		759.10					8.50
MH B	48	767.00				758.00			758.10			9.00
POND 1 INLET	N/A						757.00				758.5 With Elbow	
POND 1 OUTLET	N/A				755.00						756.5 With Elbow	
MH C	48	767.00			754.80				754.80			12.20
POND 2 INLET	N/A								754.60		756.1 With Elbow	
POND 2 OUTLET	N/A				755.00						756.5 With Elbow	
MH D	48	767.10	754.35		754.65				754.55		Standpipe Elevation 764.00	12.75
LPR INLET	N/A		754.25									
LPR OUTLET 1	N/A						764.00					
LPR OUTLET 2	N/A						754.50					
MH E	48	767.25	762.70						762.50			4.75
MH F	60	767.10	754.30				754.20	763.50		754.30		12.90
MH G	48	768.00			755.60		755.00				Standpipe Elevation 760.75	13.00
MH H	48	767.00	754.31		754.21							12.79
MH I	60	766.50	754.00			753.90			754.00			12.60
MH J	48	761.25				753.25				753.35		8.00
OUTFALL	N/A					752.70						
		Designates Flow From Structure										

BYPASS LPR

	STRUCTURE	RIM ELEVATION	INVERT ELEVATION - SANITARY SEWERS								COMMENTS	DEPTH - FEET
	DIAMETER - FT		N	NE	E	SE	S	SW	W	NW		
MH A	60	767.50	760.00		759.00		759.10					8.50
MH B	48	767.00				758.00			758.10			9.00
POND 1 INLET	N/A						757.00				758.5 With Elbow	
POND 1 OUTLET	N/A				755.00						756.5 With Elbow	
MH C	48	767.00			754.80				754.80			12.20
POND 2 INLET	N/A								754.60		756.1 With Elbow	
POND 2 OUTLET	N/A				755.00						756.5 With Elbow	
MH D	48	767.10	754.35		754.65				754.55		Standpipe Elevation 764.00	12.55
LPR INLET	N/A		754.25									
LPR OUTLET 1	N/A						764.00					
LPR OUTLET 2	N/A						754.50					
MH E	48	767.25	762.70						762.50			4.75
MH F	60	767.10	754.30				754.20	763.50		754.30		12.90
MH G	48	768.00			755.60		755.00				Standpipe Elevation 760.75	13.00
MH H	48	767.00	754.31		754.21							12.79
MH I	60	766.50	754.00			753.90			754.00			12.60
MH J	48	761.25				753.25				753.35		8.00
OUTFALL	N/A					752.70						
		Designates Flow From Structure										

BYPASS LPR AND UV

	STRUCTURE	RIM ELEVATION	INVERT ELEVATION - SANITARY SEWERS								COMMENTS	DEPTH - FEET
	DIAMETER - FT		N	NE	E	SE	S	SW	W	NW		
MH A	60	767.50	760.00		759.00		759.10					8.50
MH B	48	767.00				758.00			758.10			9.00
POND 1 INLET	N/A						757.00				758.5 With Elbow	
POND 1 OUTLET	N/A				755.00						756.5 With Elbow	
MH C	48	767.00			754.80				754.80			12.20
POND 2 INLET	N/A								754.60		756.1 With Elbow	
POND 2 OUTLET	N/A				755.00						756.5 With Elbow	
MH D	48	767.10	754.35		754.65				754.55		Standpipe Elevation 764.00	12.55
LPR INLET	N/A		754.25									
LPR OUTLET 1	N/A						764.00					
LPR OUTLET 2	N/A						754.50					
MH E	48	767.25	762.70						762.50			4.75
MH F	60	767.10	754.30				754.20	763.50		754.30		12.90
MH G	48	768.00			755.60		755.00				Standpipe Elevation 760.75	13.00
MH H	48	767.00	754.31		754.21							12.79
MH I	60	766.50	754.00			753.90			754.00			12.60
MH J	48	761.25				753.25				753.35		8.00
OUTFALL	N/A					752.70						
		Designates Flow From Structure										

LEGEND - PROPOSED PIPING

- SANITARY FORCEMAIN (MIN 6.5 FT COVER)
- SANITARY SEWER
- CHEMICAL FEED PIPING
- AERATION PIPING
- 3" CONDUIT FOR SAMPLER LINE
- 8" POLYETHYLENE ROOF DRAIN DISCHARGE
- WATER LINE (MIN 6.5 FT COVER)

DIGGERS HOTLINE

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL 811 or
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(262)432–7910
Emergency Only (877) 500–9592
FAX 1–800–338–3860
FAX (414) 259–0947
Hearing Impaired TDD 1–800–542–2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

UTILITY PLAN NOTES

1. THE LOCATION OF EXISTING UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT WITHIN THE WORK IS DISCOVERED.
2. ALL UTILITY CONNECTIONS SHALL BE DONE IN ACCORDANCE WITH THE "WISCONSIN STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION, CURRENT EDITION".
3. ALL WORK SHALL COMPLY WITH O.S.H.A. STANDARDS.
4. THE CONTRACTOR SHALL CLEAN UP ALL EXCESS MATERIAL AND DEBRIS CAUSED AS A RESULT OF WORK UNDER THIS CONTRACT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK UNDER THIS CONTRACT.
6. CONTRACTOR SHALL DISPOSE OF NON–SUITABLE MATERIAL OFF–SITE.
7. PROVIDE INSULATION FOR ALL SANITARY SEWER PIPING WITH LESS THAN 6.5 FT COVER, IN ACCORDANCE WITH STANDARD DETAILS IN PLUMBING PLAN.
8. WATER WELL, EXTERIOR PIPING, AND WATER PRESSURE TANK IN UV ROOM TO BE SUPPLIED AND INSTALLED BY GROUNDSOURCE.
9. SEE HVAC PLANS FOR BURIED GAS MAIN REQUIREMENTS.

UTILITY LAYOUT PLAN LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- STORM MAIN
- WATER MAIN
- SANITARY MAIN
- UTILITY LATERAL
- STORM MAINTENANCE HOLE
- STORM INLET
- SANITARY MAINTENANCE HOLE
- HYDRANT
- WATER VALVE

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1–1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
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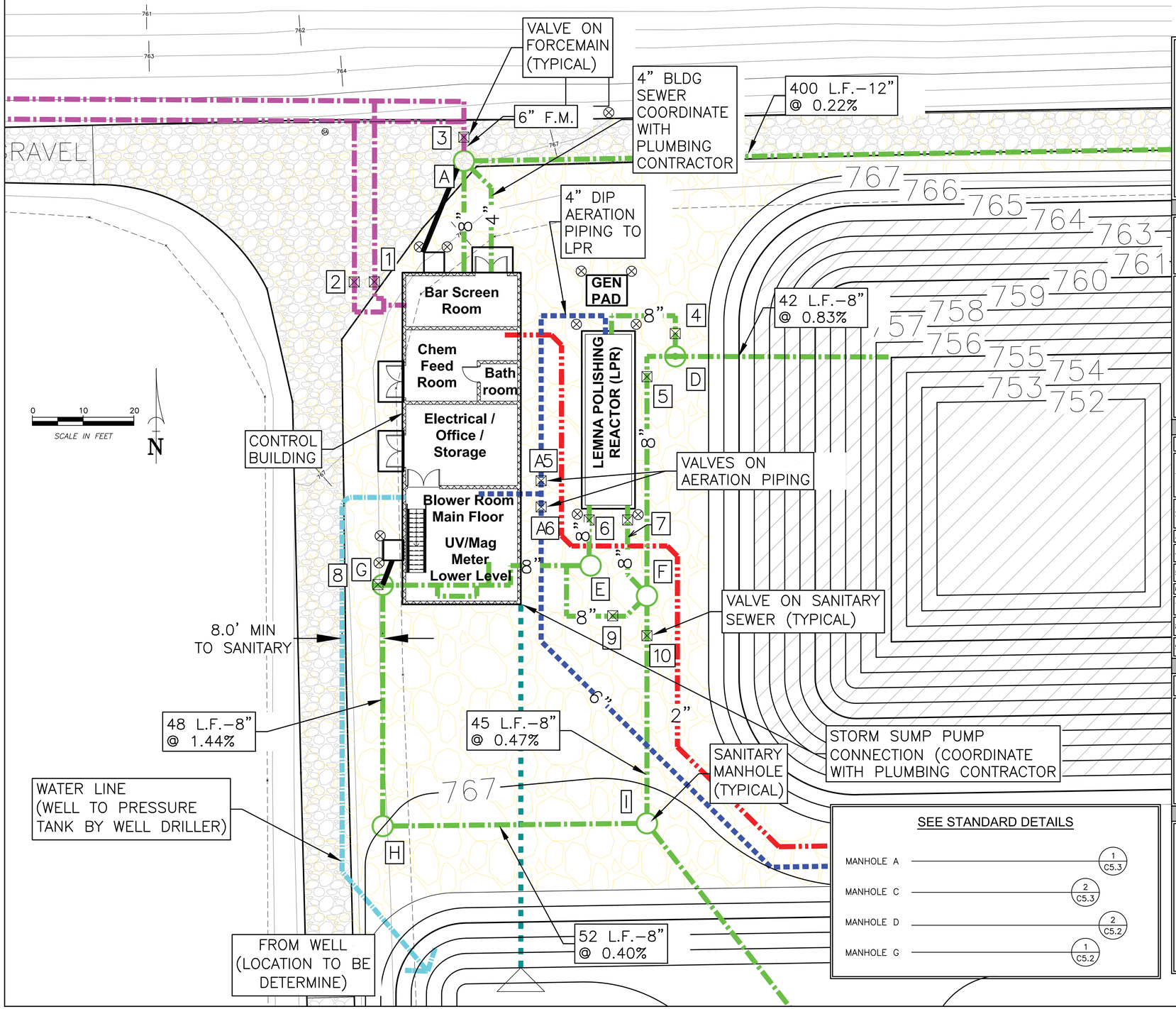
UTILITY LAYOUT PLAN
LARSEN WINCHESTER SANITARY DISTRICT WWTP IMPROVEMENTS
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

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UTILITY LAYOUT PLAN-ZOOMED IN



LEGEND - PROPOSED PIPING

- SANITARY FORCEMAIN (MIN 6.5 FT COVER)
- SANITARY SEWER
- CHEMICAL FEED PIPING
- AERATION PIPING
- 3" CONDUIT FOR SAMPLER LINE
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UTILITY PLAN NOTES

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9. SEE HVAC PLANS FOR BURIED GAS MAIN REQUIREMENTS.

SEE STANDARD DETAILS

- MANHOLE A — 1 / C5.3
- MANHOLE C — 2 / C5.3
- MANHOLE D — 2 / C5.2
- MANHOLE G — 1 / C5.2

UTILITY LAYOUT PLAN LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- STORM MAIN
- WATER MAIN
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- UTILITY LATERAL
- STORM MAINTENANCE HOLE
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TOPOGRAPHIC LEGEND

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- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
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- 2" IRON PIPE FOUND
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UTILITY LAYOUT PLAN - ZOOMED IN

LARSEN WINCHESTER SANITARY DISTRICT WWTP IMPROVEMENTS

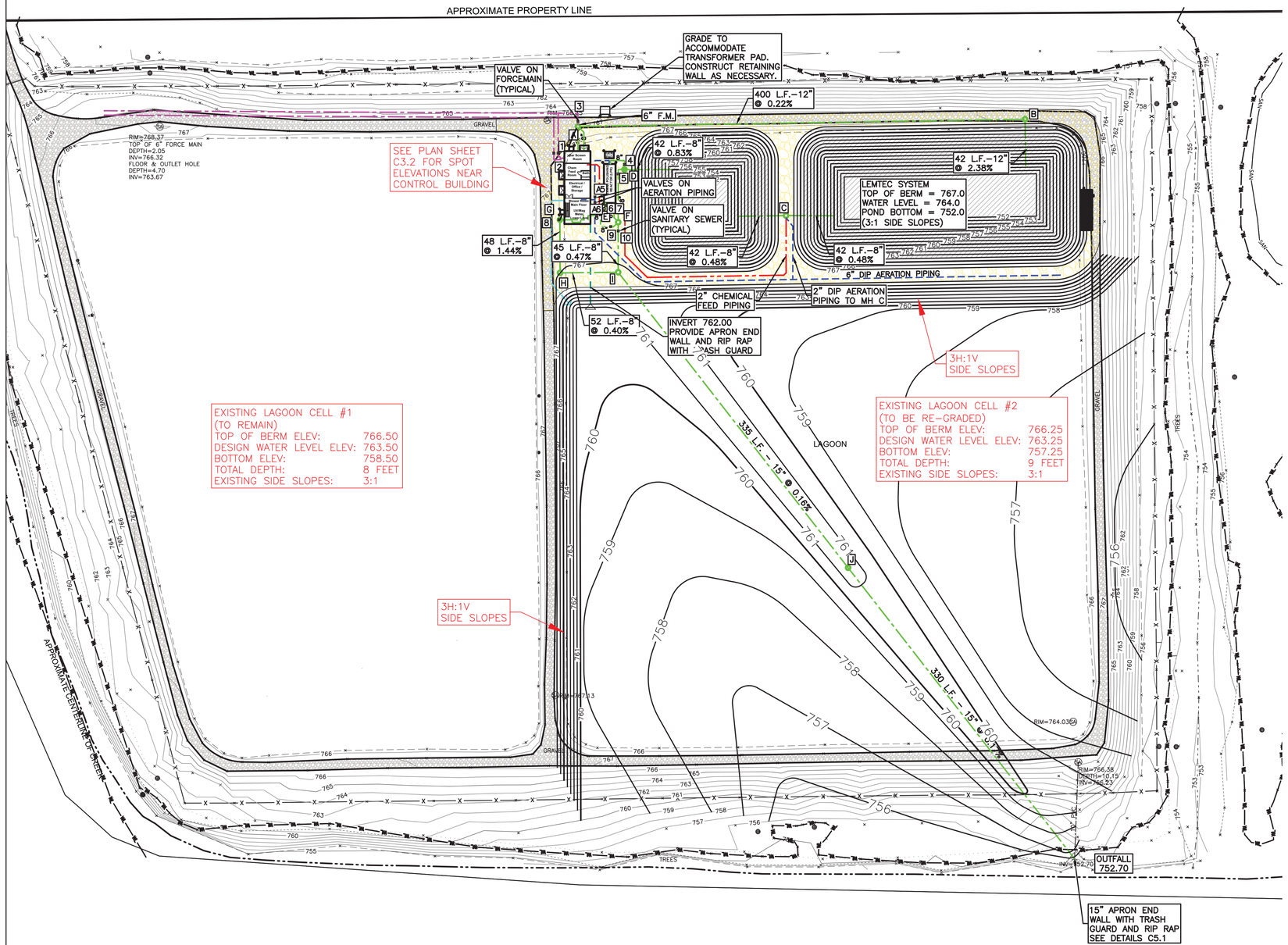
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

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C2.2

DRAINAGE PLAN



0 50 100

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TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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6.	CONTRACTOR SHALL DISPOSE OF NON–SUITABLE MATERIAL OFF–SITE.

DRAINAGE PLAN LEGEND

000	EXISTING CONTOUR	X 000.00	PROPOSED ELEVATION
000	PROPOSED CONTOUR	X (000.00)	PERTINENT DITCH OR SWALE ELEVATION
	STORM SEWER MAIN	+893.73	EXISTING ELEVATION
	STORM MAINTENANCE HOLE	000.0	PROPOSED GROUND AT FOUNDATION
	2' x 3' PRECAST STORM INLET		DIRECTION OF DRAINAGE

TOPOGRAPHIC LEGEND

	1" x 18" IRON PIPE SET	OHP	OVERHEAD POWER LINES		GAS VALVE
	1–1/4" x 30" REBAR SET	UGE	UNDERGROUND ELECTRIC		EXIST STORM MANHOLE
	CHISELED "X" SET	UGT	UNDERGROUND TELEPHONE		STORM INLET
	3/4" REBAR FOUND	FIBER	UNDERGROUND FIBEROPTIC		YARD DRAIN
	1" IRON PIPE FOUND	UGG	UNDERGROUND GAS		EXIST SANITARY MANHOLE
	1–1/4" REBAR FOUND	CATV	UNDERGROUND CABLE TV		EXIST. SAN. SEWER
	2" IRON PIPE FOUND		EXIST. FENCE LINE		EXIST. STO. SEWER
	CHISELED "X" FOUND		SIGN		EXIST. WATER MAIN
	GOVERNMENT CORNER		POWER POLE	000.00	EXIST. SPOT ELEVATION
( )	RECORDED AS		GUY	000	CONTOUR W/ ELEVATION
	CONIFEROUS TREE		LIGHT POLE	000.00tc	EXIST. TOP OF CURB ELEV.
	DECIDUOUS TREE		TELEPHONE PEDESTAL	000.00fl	EXIST. FLOW LINE ELEV.
	EXIST. WOODS LINE		ELECTRIC PEDESTAL	FF = 000.00	FIRST FLOOR = 000.00
	WETLANDS		CABLE PEDESTAL		TOPSOIL DEPTH
	SOIL BORING		EXIST. HYDRANT		INFILTRATION SOIL BORING
			WATER VALVE		
			WATER STOP BOX		

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CRC	JJR	MJM	JFS

** REFER TO COVER SHEET FOR REVISION DESCRIPTIONS **							
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
1	06/11/24						

PROJECT

DRAINAGE PLAN

LARSEN WINCHESTER SANITARY DISTRICT WWTP IMPROVEMENTS

TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

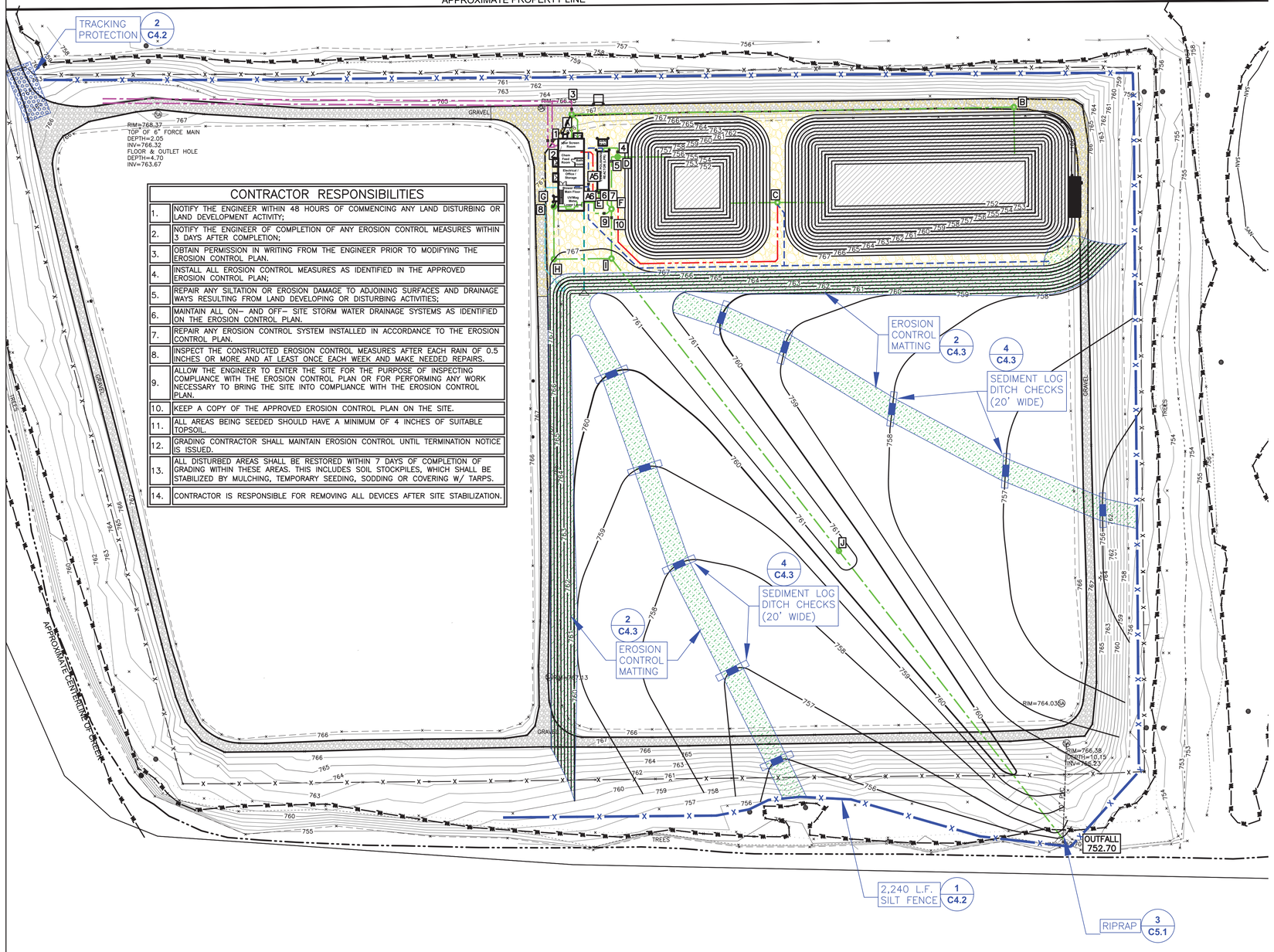
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DRAWING NO.
C3.1

EROSION CONTROL PLAN

EROSION CONTROL NOTES	
1.	THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON THIS PLAN PRIOR TO ANY CONSTRUCTION INCLUDING STRIPPING TOPSOIL.
2.	THE CONTRACTOR SHALL MAINTAIN SAID EROSION CONTROL DEVICES UNTIL THE COMPLETION OF HIS CONTRACT AND SHALL NOT REMOVE THE EROSION CONTROL DEVICES UNTIL VEGETATION IS ESTABLISHED.
3.	THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS THAT WILL NOT BE PAVED WITH MINIMUM 4" TOPSOIL, FERTILIZER, SEED AND MULCH OR EROSION CONTROL MATTING.
4.	THE CONTRACTORS SHALL PREVENT TRACKING ON EXISTING STREETS. ANY SEDIMENT TRACKED ONTO EXISTING STREETS SHALL BE CLEANED UP DAILY.
5.	INSTALLATION AND MAINTENANCE OF EROSION CONTROL SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
6.	SILT FENCES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS SOON AS WORK IS COMPLETE IN THAT AREA.

CONTRACTOR RESPONSIBILITIES	
1.	NOTIFY THE ENGINEER WITHIN 48 HOURS OF COMMENCING ANY LAND DISTURBING OR LAND DEVELOPMENT ACTIVITY;
2.	NOTIFY THE ENGINEER OF COMPLETION OF ANY EROSION CONTROL MEASURES WITHIN 3 DAYS AFTER COMPLETION;
3.	OBTAIN PERMISSION IN WRITING FROM THE ENGINEER PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
4.	INSTALL ALL EROSION CONTROL MEASURES AS IDENTIFIED IN THE APPROVED EROSION CONTROL PLAN;
5.	REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPING OR DISTURBING ACTIVITIES;
6.	MAINTAIN ALL ON– AND OFF– SITE STORM WATER DRAINAGE SYSTEMS AS IDENTIFIED ON THE EROSION CONTROL PLAN.
7.	REPAIR ANY EROSION CONTROL SYSTEM INSTALLED IN ACCORDANCE TO THE EROSION CONTROL PLAN.
8.	INSPECT THE CONSTRUCTED EROSION CONTROL MEASURES AFTER EACH RAIN OF 0.5 INCHES OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE NEEDED REPAIRS.
9.	ALLOW THE ENGINEER TO ENTER THE SITE FOR THE PURPOSE OF INSPECTING COMPLIANCE WITH THE EROSION CONTROL PLAN OR FOR PERFORMING ANY WORK NECESSARY TO BRING THE SITE INTO COMPLIANCE WITH THE EROSION CONTROL PLAN.
10.	KEEP A COPY OF THE APPROVED EROSION CONTROL PLAN ON THE SITE.
11.	ALL AREAS BEING SEEDED SHOULD HAVE A MINIMUM OF 4 INCHES OF SUITABLE TOPSOIL.
12.	GRADING CONTRACTOR SHALL MAINTAIN EROSION CONTROL UNTIL TERMINATION NOTICE IS ISSUED.
13.	ALL DISTURBED AREAS SHALL BE RESTORED WITHIN 7 DAYS OF COMPLETION OF GRADING WITHIN THESE AREAS. THIS INCLUDES SOIL STOCKPILES, WHICH SHALL BE STABILIZED BY MULCHING, TEMPORARY SEEDING, SODDING OR COVERING W/ TARPS.
14.	CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEVICES AFTER SITE STABILIZATION.



GENERAL NOTES	
1.	SITE DEWATERING (TECH. STD. 1061): WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROLS DESIGNED FOR THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS. (NOT ANTICIPATED)
2.	WASTE AND MATERIAL DISPOSAL: ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED BY RUNOFF INTO A RECEIVING CHANNEL OR STORM SEWER SYSTEM.
3.	TRACKING (TECH. STD. 1057): THIS SITE SHALL STABILIZE THE EXISTING DRIVE WITH 3" TO 6" (12" THICK) CLEAR AGGREGATE SUFFICIENT TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROAD WAYS AS APPROVED BY THE DIRECTOR. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. FLUSHING MAY NOT BE USED UNLESS THE SEDIMENT WILL BE CONTROLLED BY A FILTER FABRIC BARRIER, SEDIMENT TRAP, SEDIMENT BASIN OR EQUIVALENT. TRACKING PAD DIMENSIONS ARE SHOWN ON THE EROSION CONTROL PLAN (24'X50' MIN).
4.	EROSION MATTING (TECH. STD. 1052 & 1053): EROSION MATTING SHALL BE INSTALLED AFTER TOPSOIL IS PLACED AND SEEDING IS COMPLETE. MATERIAL LABELS AND MANUFACTURER INSTALLATION INSTRUCTIONS SHALL BE RETAINED UNTIL THE SITE HAS BEEN STABILIZED. IF THERE ARE SIGNS OF RILLING OR FAILURE, MORE STAPLES AND/OR ANCHORING TRENCHES SHALL BE INSTALLED. IF RILLING OR FAILURE PERSISTS, IMPACTED AREAS SHALL BE FILLED, RE–SEEDED AND MULCHED. CLASS I OR CLASS II – TYPE B PRODUCTS THAT INCORPORATE PHOTO– OR BIO–DEGRADABLE NETTING SHALL NOT BE INSTALLED AFTER SEPTEMBER 1ST OF ANY GIVEN YEAR.
5.	SEDIMENT CLEANUP. ALL 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 OTHER OFF–SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF LAND DISTURBING ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORK DAY.
6.	DISTURBANCE TIMING. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. EXISTING VEGETATION SHALL BE MAINTAINED AS LONG AS POSSIBLE.
7.	DUST CONTROL (TECH. STD. 1068): DUST MANAGEMENT CONTROL PRACTICES SHALL BE INSTALLED AS NEEDED. RECOMMENDED DUST CONTROL MEASURES INCLUDE: MINIMIZING SOIL DISTURBANCE; APPLYING MULCH AND ESTABLISHING VEGETATION; WATER SPRAYING; SURFACE ROUGHENING; APPLYING ADDITIVES; SPRAYING TACKIFIERS; AND INSTALLING BARRIERS. A COMBINATION OF MEASURES FOR DUST CONTROL MAY BE REQUIRED. IMPLEMENTATION SHALL FOLLOW WDNR TECHNICAL STANDARD 1068. PETROLEUM BASED PRODUCTS SHALL NOT BE USED FOR DUST CONTROL.

EROSION CONTROL PLAN KEY LEGEND

- SILT FENCE — 1 / C4.2
- TRACKING PROTECTION — 2 / C4.2
- INLET PROTECTION TYPES A,B,C, & D — 3 / C4.2
- INLET PROTECTION TYPE D–M — 4 / C4.2
- INLET PROTECTION TYPE D–HR — 5 / C4.2
- SANDBAG CULVERT PIPE DITCH CHECK — 6 / C4.2
- DEWATERING DETAIL — 7 / C4.2
- EROSION CONTROL MAT DETAIL (CLASS 2, TYPE A) — 1 / C4.3
- EROSION CONTROL MAT DETAIL (CLASS 1, TYPE B) — 2 / C4.3
- SEDIMENT LOG INLET PROTECTION — 3 / C4.3
- SEDIMENT LOG CHANNEL DITCH CHECK — 4 / C4.3

TOPOGRAPHIC LEGEND

1" x 18" IRON PIPE SET	OVERHEAD POWER LINES
1–1/4" x 30" REBAR SET	UNDERGROUND ELECTRIC
CHISELED "X" SET	UNDERGROUND TELEPHONE
3/4" REBAR FOUND	UNDERGROUND FIBEROPTIC
1" IRON PIPE FOUND	UNDERGROUND GAS
1–1/4" REBAR FOUND	UNDERGROUND CABLE TV
2" IRON PIPE FOUND	EXIST. FENCE LINE
CHISELED "X" FOUND	SIGN
GOVERNMENT CORNER	POWER POLE
RECORDED AS	GUY
CONIFEROUS TREE	LIGHT POLE
DECIDUOUS TREE	TELEPHONE PEDESTAL
EXIST. WOODS LINE	ELECTRIC PEDESTAL
WETLANDS	CABLE PEDESTAL
SOIL BORING	EXIST. HYDRANT
	WATER VALVE
	WATER STOP BOX
GAS VALVE	
EXIST STORM MANHOLE	
STORM INLET	
YARD DRAIN	
EXIST SANITARY MANHOLE	
EXIST. SAN. SEWER	
EXIST. STO. SEWER	
EXIST. WATER MAIN	
EXIST. SPOT ELEVATION	
CONTOUR W/ ELEVATION	
EXIST. TOP OF CURB ELEV.	
EXIST. FLOW LINE ELEV.	
FIRST FLOOR = 000.00	
TOPSOIL DEPTH	
INFILTRATION SOIL BORING	

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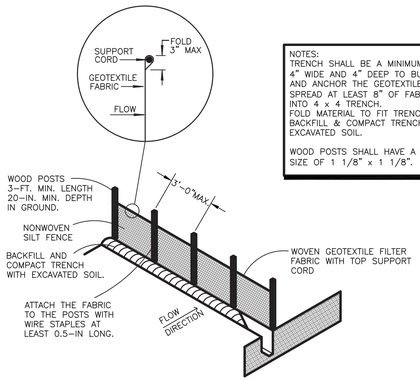
EROSION CONTROL PLAN
LARSEN WINCHESTER SANITARY DISTRICT WWTP IMPROVEMENTS
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

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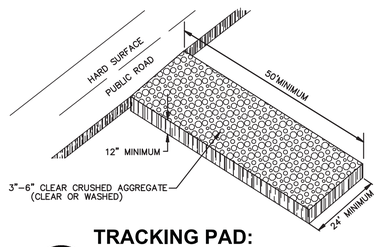
EROSION CONTROL DETAILS



NOTES:
TRENCH SHALL BE A MINIMUM OF 4" WIDE AND 4" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. SPREAD AT LEAST 8" OF FABRIC INTO 4 x 4 TRENCH. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

WOOD POSTS SHALL HAVE A MINIMUM SIZE OF 1 1/8" x 1 1/8".

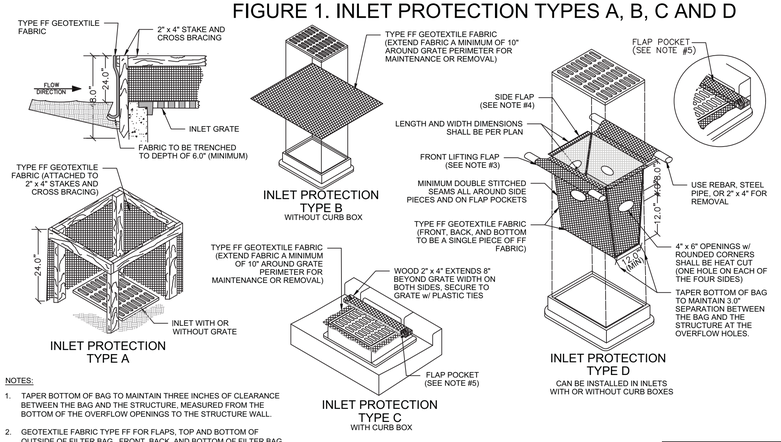
1 C4.2 SILT FENCE DETAIL
NTS



2 C4.2 TRACKING PAD: CONST. ENTRANCE
NTS

NOTE: DETAILS NOT UTILIZED ON PLANS ARE FOR INFORMATIONAL PURPOSES IN CASE OF UNANTICIPATED FIELD CONDITIONS.

FIGURE 1. INLET PROTECTION TYPES A, B, C AND D



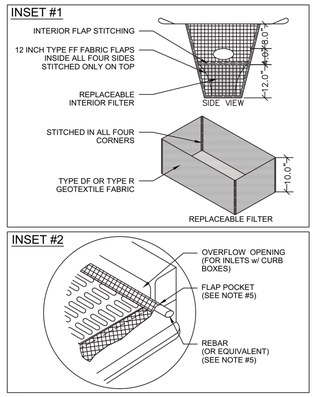
NOTES:
1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

MAINTENANCE NOTES:
1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

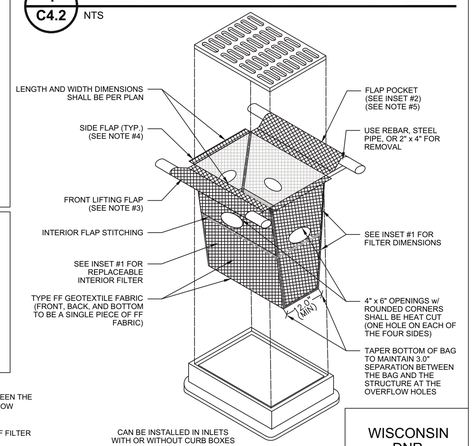
3 C4.2 INLET PROTECTION DETAIL TYPES A,B,C, & D
NTS

WISCONSIN DNR
1060 TECHNICAL STANDARD No.
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FIGURE 2. INLET PROTECTION TYPE D-M



4 C4.2 INLET PROTECTION DETAIL TYPE D-M
NTS

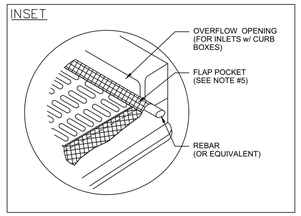


NOTES:
1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
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MAINTENANCE NOTES:
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5 C4.2 INLET PROTECTION DETAIL TYPE D-HR
NTS



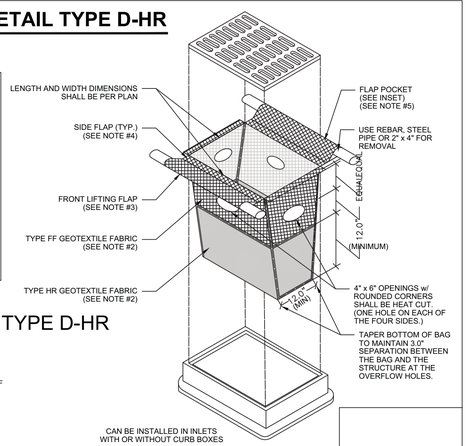
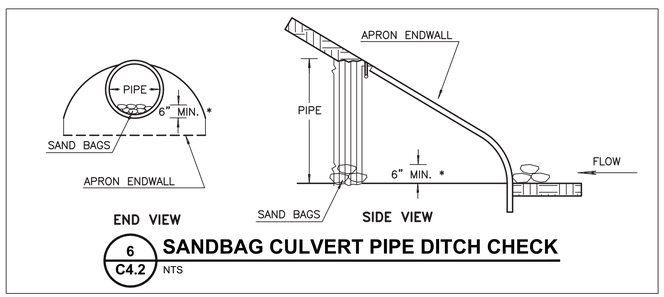


FIGURE 3. INLET PROTECTION TYPE D-HR

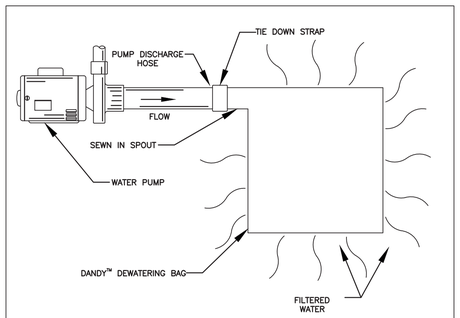
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3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
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MAINTENANCE NOTES:
1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE STRUCTURE SHALL BE IMMEDIATELY REMOVED.

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6 C4.2 SANDBAG CULVERT PIPE DITCH CHECK
NTS



DANDY DEWATERING BAG™ SPECIFICATIONS

NOTE: THE DANDY DEWATERING BAG™ WILL BE **MANUFACTURED IN THE U.S.A.** FROM A NONWOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

Mechanical Properties	Test Method	MARV
Grab Tensile Strength	ASTM D 4632	205lbs x 205lbs
Puncture Strength	ASTM D 4833	130lbs
Mullen Burst Strength	ASTM D 3786	380psi
Apparent Opening Size	ASTM D 4751	#80 US Std. Sieve
Flow Rate	ASTM D 4491	95 gal/min/ft²
Permittivity	ASTM D 4491	1.2 Sec⁻¹

7 C4.2 DEWATERING DETAIL
NTS

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EROSION CONTROL DETAILS
LARSEN WINCHESTER SANITARY DISTRICT WWTP IMPROVEMENTS
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

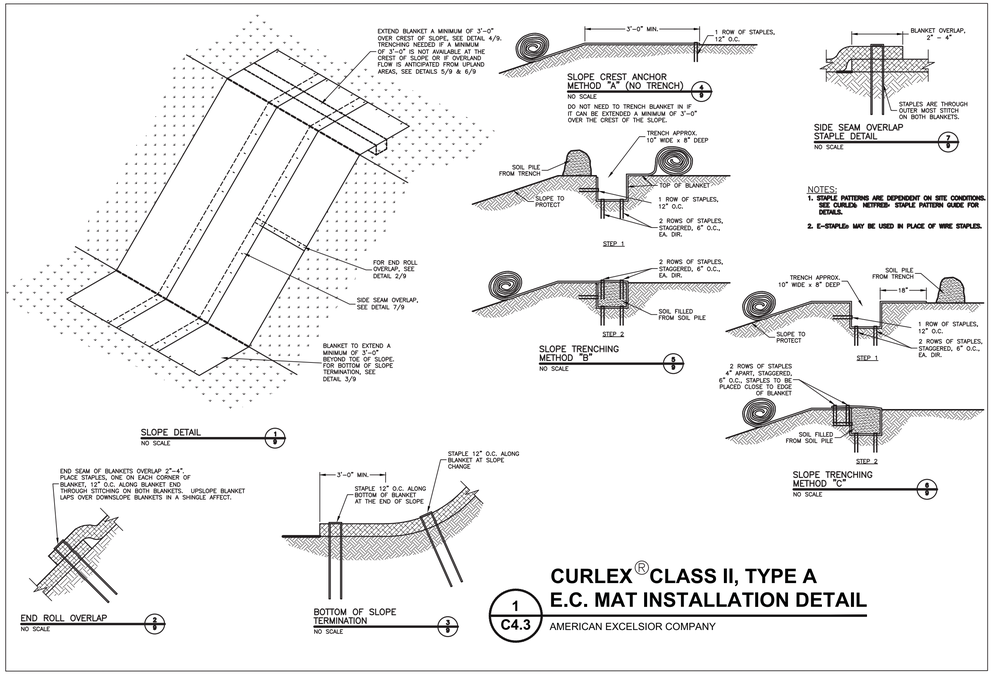
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EROSION CONTROL DETAILS

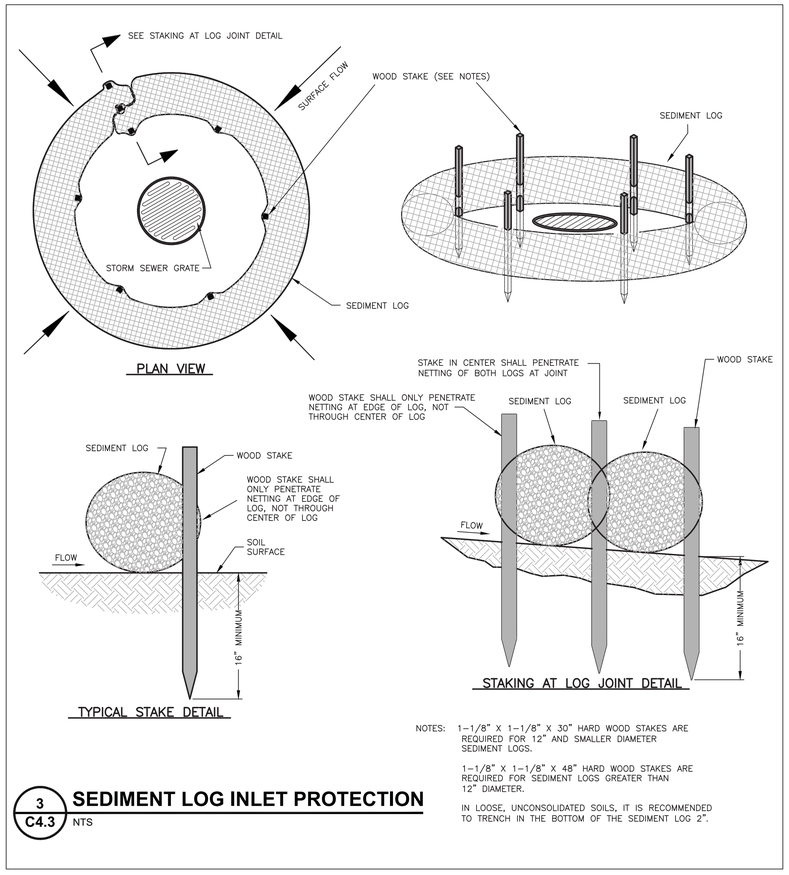
NOTE: DETAILS NOT UTILIZED ON PLANS ARE FOR INFORMATIONAL PURPOSES IN CASE OF UNANTICIPATED FIELD CONDITIONS.



CURLEX® CLASS II, TYPE A E.C. MAT INSTALLATION DETAIL

1 / C4.3

AMERICAN EXCELSIOR COMPANY



NOTES: 1–1/8" X 1–1/8" X 30" HARD WOOD STAKES ARE REQUIRED FOR 12" AND SMALLER DIAMETER SEDIMENT LOGS.

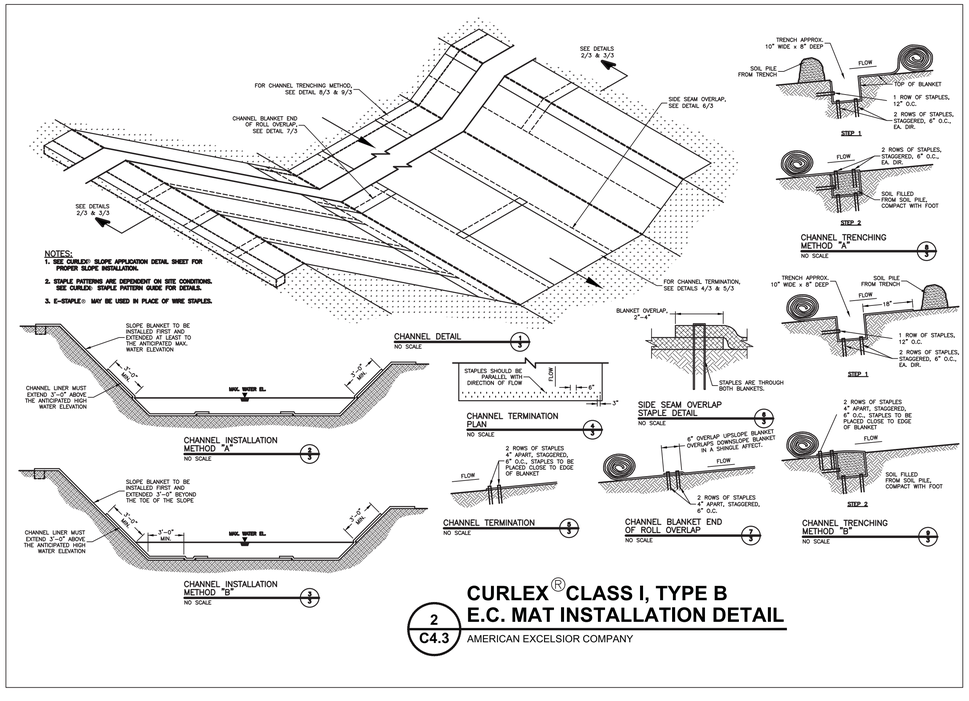
1–1/8" X 1–1/8" X 48" HARD WOOD STAKES ARE REQUIRED FOR SEDIMENT LOGS GREATER THAN 12" DIAMETER.

IN LOOSE, UNCONSOLIDATED SOILS, IT IS RECOMMENDED TO TRENCH IN THE BOTTOM OF THE SEDIMENT LOG 2".

SEDIMENT LOG INLET PROTECTION

3 / C4.3

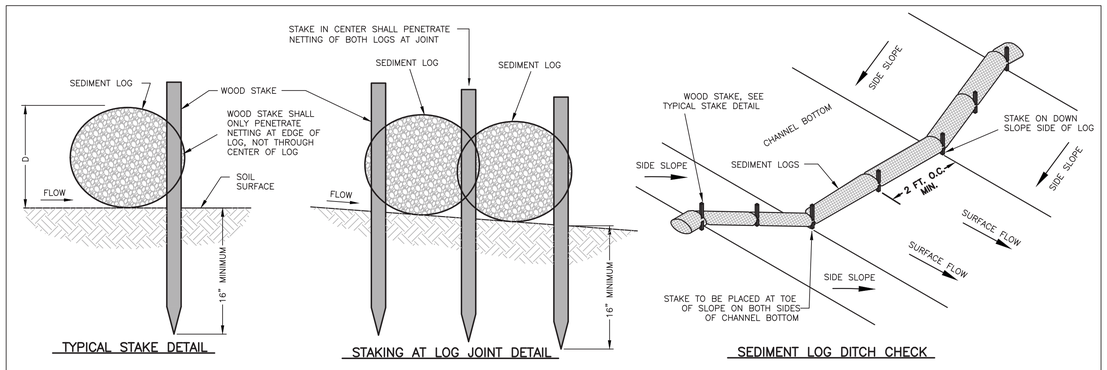
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CURLEX® CLASS I, TYPE B E.C. MAT INSTALLATION DETAIL

2 / C4.3

AMERICAN EXCELSIOR COMPANY



[DISTANCE BETWEEN CHANNEL BOTTOM AND TOP OF INSTALLED SEDIMENT LOGS (D)(ft)] / [CHANNEL GRADIENT (%)] X 100 = SEDIMENT LOGS SPACING (ft)

NOTES: 1–1/8" X 1–1/8" X 30" HARD WOOD STAKES ARE REQUIRED FOR 12" AND SMALLER DIAMETER SEDIMENT LOGS.

1–1/8" X 1–1/8" X 48" HARD WOOD STAKES ARE REQUIRED FOR SEDIMENT LOGS GREATER THAN 12" DIAMETER.

IN LOOSE, UNCONSOLIDATED SOILS, IT IS RECOMMENDED TO TRENCH IN THE BOTTOM OF THE SEDIMENT LOG 2".

SEDIMENT LOG CHANNEL DITCH CHECK

4 / C4.3

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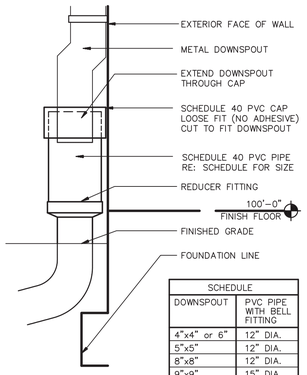
EROSION CONTROL DETAILS
LARSEN WINCHESTER SANITARY DISTRICT WWTP IMPROVEMENTS
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

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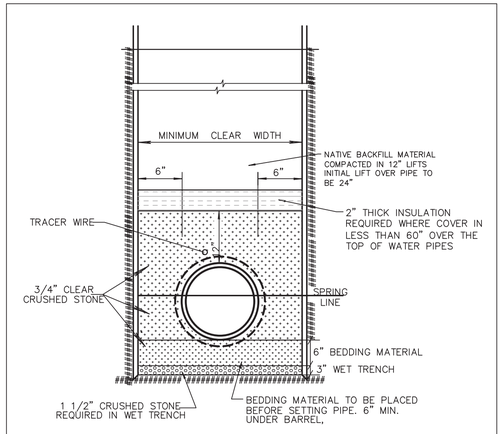
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STANDARD DETAILS

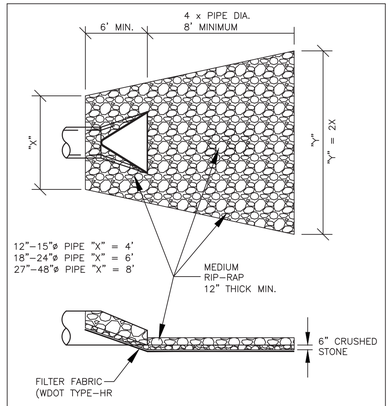


SCHEDULE	
DOWNSPOUT	PVC PIPE WITH BELL FITTING
4"x4" or 6"	12" DIA.
5"x5"	12" DIA.
8"x8"	12" DIA.
9"x9"	15" DIA.
10"x10"	15" DIA.

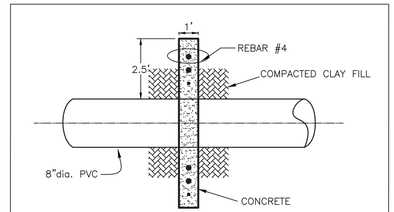
1 C5.1 EXTERIOR DOWNSPOUT COLLECTOR
NTS



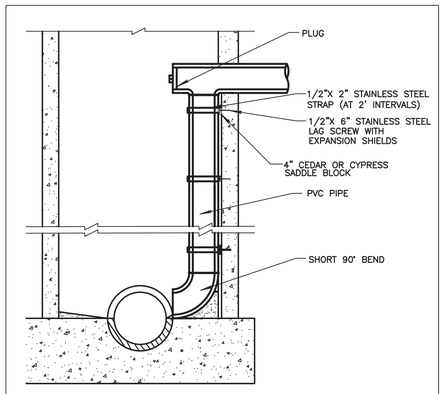
2 C5.1 CLASS "B" BEDDING FOR PVC PIPE
NTS



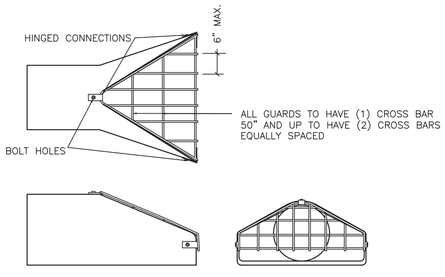
3 C5.1 RIPRAP DETAIL
NTS



4 C5.1 ANTI-SEEP COLLAR
NTS
FOR ALL SANITARY SEWER THROUGH PONDS



5 C5.1 INSIDE DROP MANHOLE
NTS

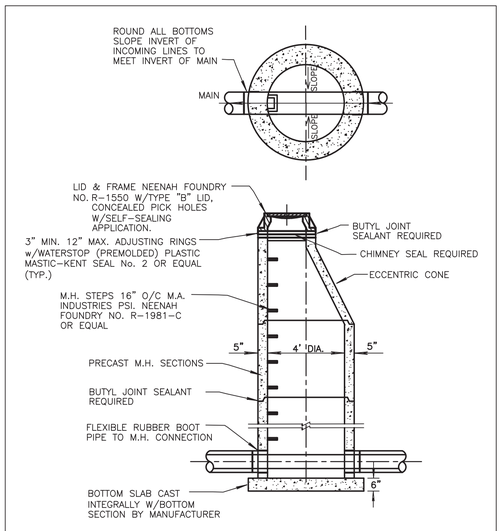


HOT DIP GALVANIZED PER ASTM–A153

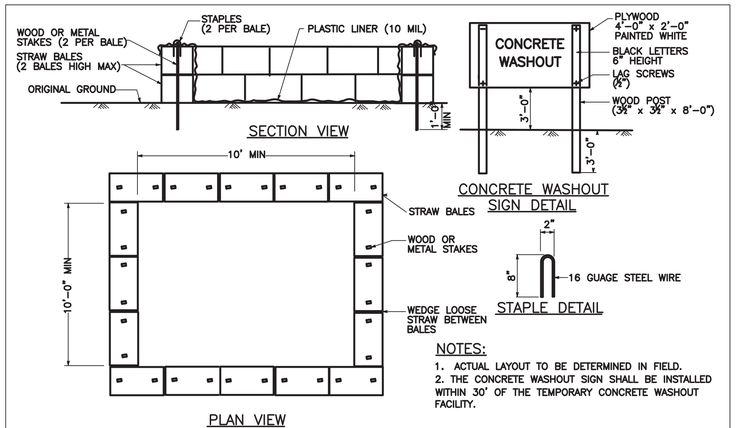
BAR SIZES

	STANDARD DESIGN					HEAVY DESIGN				
	PIPE SIZE	HOLE DIA. REQUIRED	BOLT DIA.	BAR SIZE		PIPE SIZE	HOLE DIA. REQUIRED	BOLT DIA.	BAR SIZE
ROUND	12"–24"	3/4"	5/8"	5/8"	ROUND	12"–24"	3/4"	5/8"	3/4"
	27"–48"	7/8"	3/4"	3/4"		27"–48"	7/8"	3/4"	1"
	54"–90"	1–1/8"	1"	1"		54"–90"	1–1/8"	1"	1–1/4"
ARCH	22"–29"	3/4"	3/4"	5/8"	ARCH	22"–29"	3/4"	3/4"	3/4"
	36"–59"	7/8"	5/8"	3/4"		36"–59"	7/8"	5/8"	1"
	65"–88"	1–1/8"	1"	1"		65"–88"	1–1/8"	1"	1–1/4"
BOLT LENGTH = PIPE WALL THICKNESS = 2–1/2"									

6 C5.1 SAFETY/TRASH GUARD FOR FLARED ENDS
NTS



7 C5.1 STANDARD SANITARY MANHOLE
NTS



NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

8 C5.1 TEMPORARY CONCRETE WASHOUT FACILITY
NTS

Martenson & Eisele, Inc.
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1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

DRAWN BY	CHECKED	APPROVED	FIELDWORK
CRC	JJR	MJM	JFS

** REFER TO COVER SHEET FOR REVISION DESCRIPTIONS **

NO.	DATE	NO.	DATE	NO.	DATE
1	06/11/24				

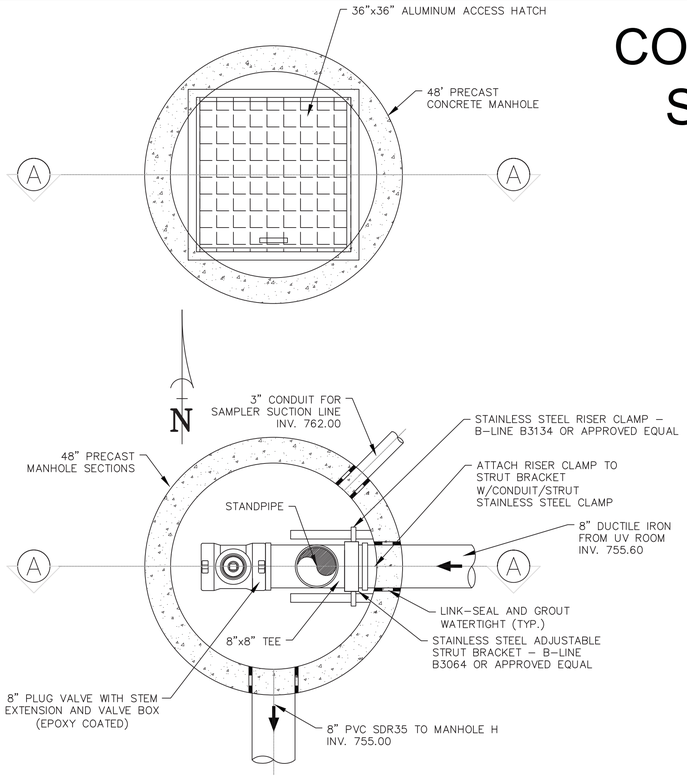
STANDARD DETAILS
LARSEN WINCHESTER SANITARY DISTRICT
WWTP IMPROVEMENTS
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

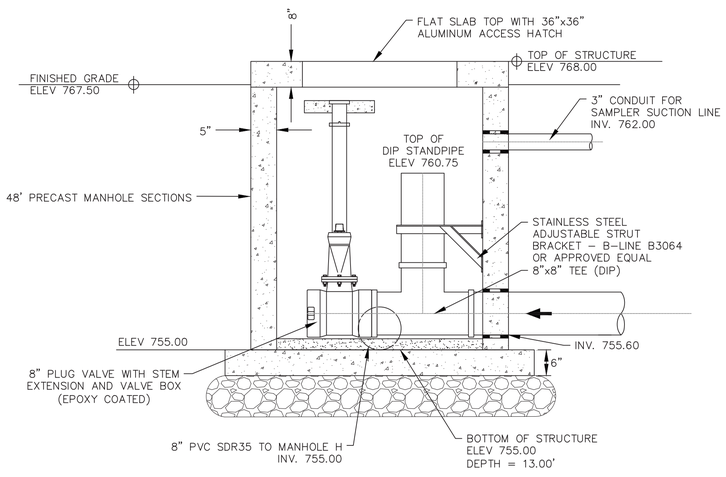
SCALE	DATE
BAR SCALE	05-06-2024

COMPUTER FILE
Civil3D\Eng\1-0049-029de.dwg

DRAWING NO.
C5.1

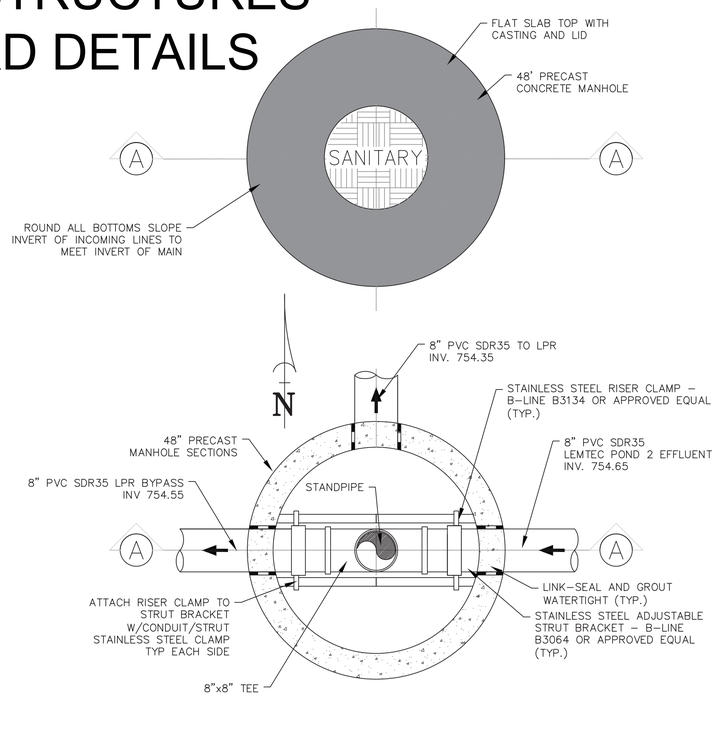
CONTROL STRUCTURES STANDARD DETAILS

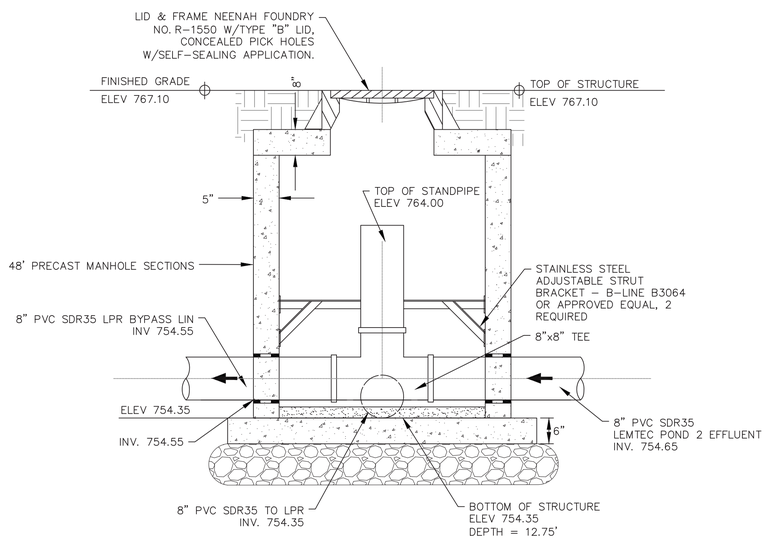




SECTION A

1 C5.2 NTS MANHOLE G CONTROL STRUCTURE (BY CONTRACTOR)





SECTION A

2 C5.2 NTS MANHOLE D CONTROL STRUCTURE (BY CONTRACTOR)

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DRAWN BY	CHECKED	APPROVED	FIELDWORK
CRC	JJR	MJM	JFS

** REFER TO COVER SHEET FOR REVISION DESCRIPTIONS **					
NO.	DATE	NO.	DATE	NO.	DATE
1	06/11/24				

CONTROL STRUCTURES STANDARD DETAILS

LARSEN WINCHESTER SANITARY DISTRICT

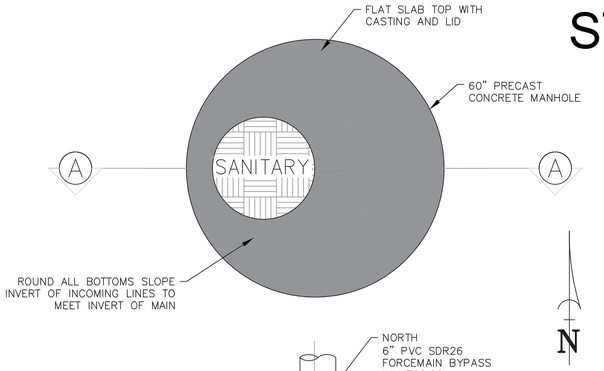
WWTP IMPROVEMENTS, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

COMPUTER FILE
Civil3D\Eng\1-0049-029de.dwg

DRAWING NO.
C5.2

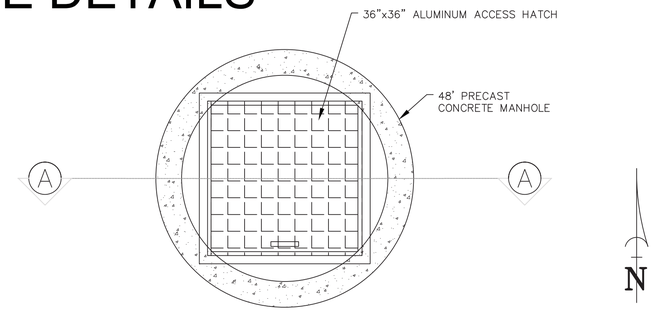
STANDARD MANHOLE DETAILS

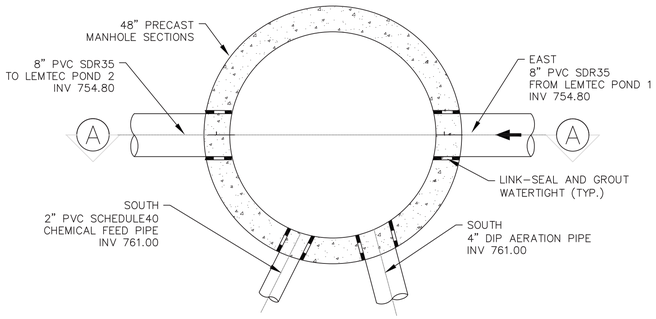


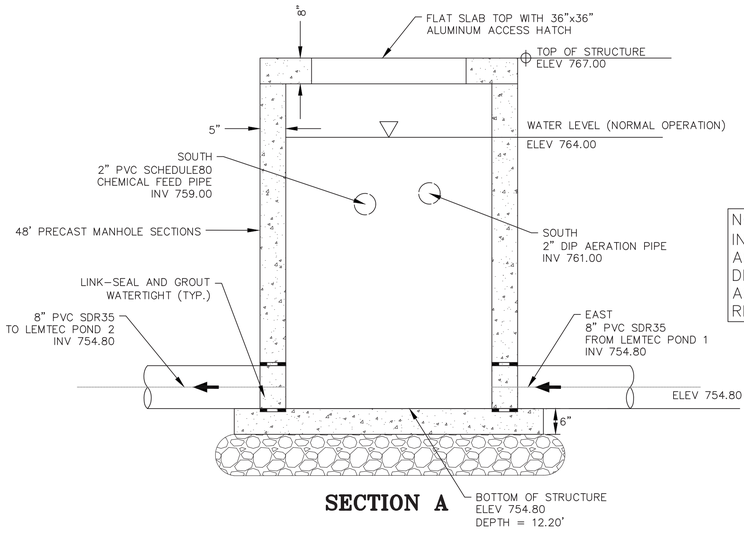
1 C5.3 NTS

DETAIL MH A

(BY CONTRACTOR)







NOTE:
INSTALL 2" SCH80 PVC AND COURSE BUBBLE DIFFUSER IN MH C IN ACCORDANCE WITH LEMNA RECOMMENDATIONS.

2 C5.3 NTS

DETAIL MH C

(BY CONTRACTOR)

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CRC	JJR	MJM	JFS

** REFER TO COVER SHEET FOR REVISION DESCRIPTIONS **					
NO.	DATE	NO.	DATE	NO.	DATE
1	06/11/24				

CONTROL STRUCTURES STANDARD DETAILS

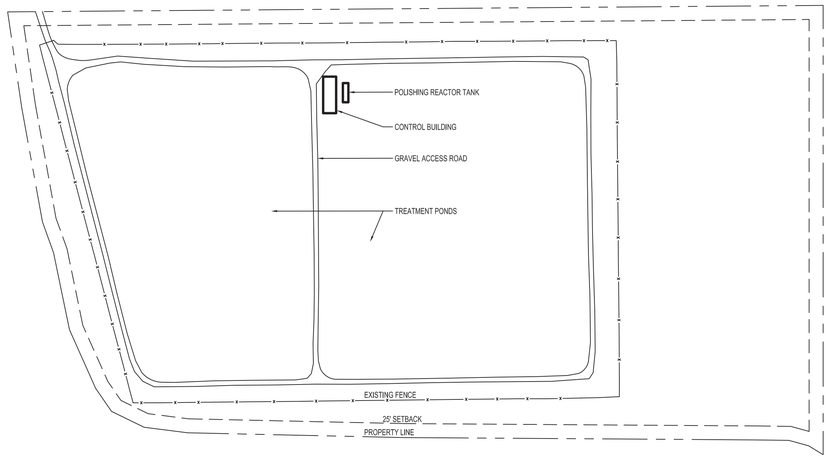
LARSEN WINCHESTER
SANITARY DISTRICT

WWTP IMPROVEMENTS, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

COMPUTER FILE
Civil3D\Eng\1-0049-029de.dwg

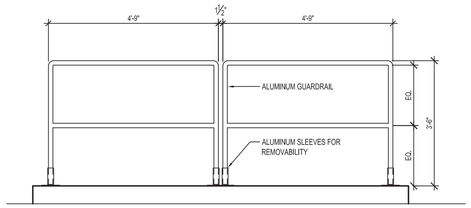
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C5.3



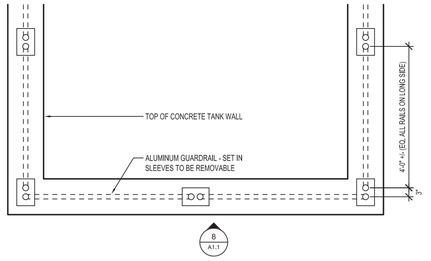
N

9 A1.1 SCHEMATIC SITE PLAN
1/128" = 1'-0"

NOTE:
THIS SITE PLAN IS FOR REFERENCE ONLY.
SEE CIVIL ENGINEERING DRAWINGS FOR
DETAILED SITE DEVELOPMENT INFORMATION.



8 A1.1 TANK HANDRAIL ELEVATION
1/2" = 1'-0"



N

7 A1.1 TANK HANDRAIL PLAN - PARTIAL
1/2" = 1'-0"

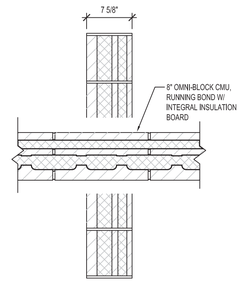
GENERAL CONSTRUCTION NOTES

THESE DOCUMENTS ARE BASED UPON THE BEST AVAILABLE INFORMATION AT THE TIME OF PRODUCTION, HOWEVER COMPLETE ACCURACY IS NOT GUARANTEED OR IMPLIED. ALL EXISTING DIMENSIONS AND CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR BEFORE BEGINNING WORK AND PRIOR TO FABRICATION OR ORDERING OF ANY EQUIPMENT. IF DISCREPANCIES ARE FOUND BETWEEN THESE DOCUMENTS AND REAL-WORLD CONDITIONS, NOTIFY THE ARCHITECT IMMEDIATELY FOR INSTRUCTIONS AND CLARIFICATION.

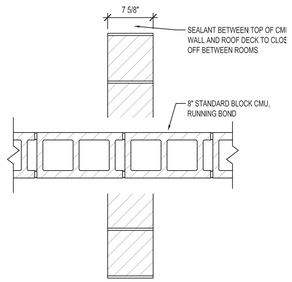
DO NOT SCALE THE DRAWINGS, WRITTEN DIMENSIONS OR NOTES SHALL PREVAIL. IF THERE ARE MISSING DIMENSIONS OR DISCREPANCIES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION.

FURNITURE AND EQUIPMENT SHOWN ON PLAN IS FOR INFORMATIONAL PURPOSES ONLY.

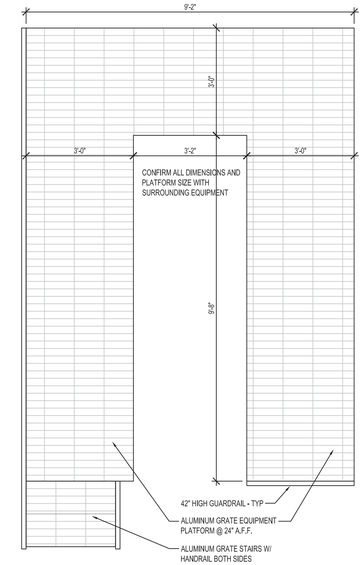
WALL TYPES



1

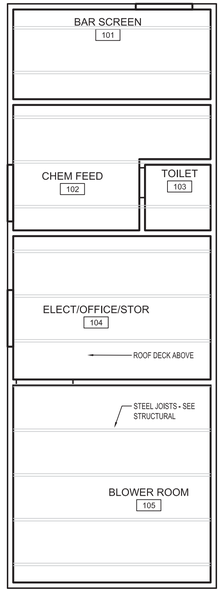


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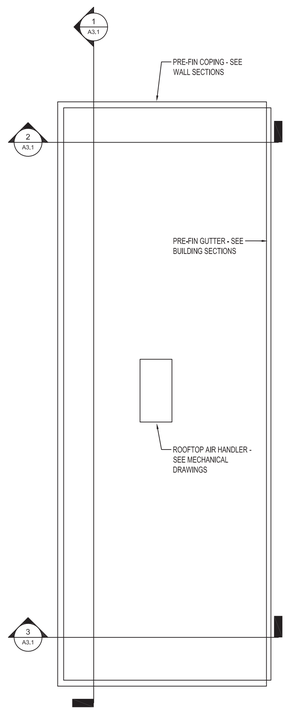
N

5 A1.1 ENLARGED PLATFORM PLAN
1/2" = 1'-0"



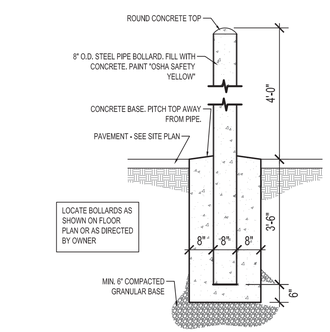
N

4 A1.1 REFLECTED CEILING PLAN
1/8" = 1'-0"

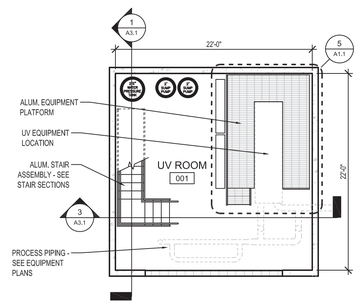


N

3 A1.1 ROOF PLAN
1/8" = 1'-0"

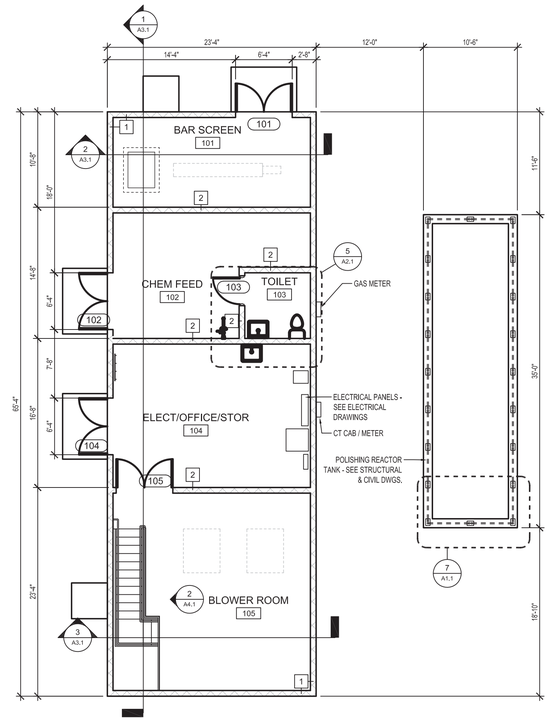


6 A1.1 BOLLARD DETAIL
1/2" = 1'-0"



N

2 A1.1 BASEMENT PLAN
1/8" = 1'-0"



N

1 A1.1 FIRST FLOOR PLAN
1/8" = 1'-0"

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KCV	KBS	KBS

NO.	DATE	REVISION

LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE	DATE
1/8"=1'-0"	10/16/2024

PROJECT NUMBER
1-0049-029

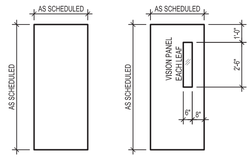
PLANS
DETAILS
AND
NOTES

DRAWING NO.
A1.1

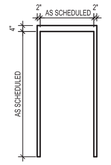
DOOR AND FRAME SCHEDULE

DOOR NO	DOOR SIZE WIDTH	DOOR SIZE HT	DOOR SIZE THK	DOOR TYPE	DOOR CORE	DOOR MAT	DOOR FIN	FRAME TYPE	FRAME MAT	FRAME FIN	JAMB HEAD SILL	GLASS TYPE	FIRE LABEL	HARDWARE HDWE GRP	HARDWARE KEY SIDE	REMARKS
101	PR 3'-0"	8'-0"	1-3/4"	MD1	INSUL	HM	PRIMED	HM-1	HM	PRIMED	·	·	·	1	EXT	.
102	PR 3'-0"	7'-0"	1-3/4"	MD1	INSUL	HM	PRIMED	HM-1	HM	PRIMED	·	·	·	1	EXT	.
103	3'-0"	7'-0"	1-3/4"	MD1	INSUL	HM	PRIMED	HM-1	HM	PRIMED	·	·	·	2	·	.
104	PR 3'-0"	7'-0"	1-3/4"	MD1	INSUL	HM	PRIMED	HM-1	HM	PRIMED	·	·	·	1	EXT	.
105	PR 3'-0"	7'-0"	1-3/4"	MD2	INSUL	HM	PRIMED	HM-1	HM	PRIMED	·	A	·	3	104	.

DOOR TYPES



FRAME TYPE



HARDWARE SCHEDULE

FURNISH A.D.A. COMPLIANT LEVER TYPE HARDWARE.
ALL HARDWARE AND KEYING TO BE VERIFIED AND COORDINATED WITH OWNER PRIOR TO ORDERING.

HARDWARE GROUP 1
-- TWO ACTIVE LEAVES THIS OPENING --
3 PAIR BUTT HINGES
2 CLOSERS WITH INTEGRAL STOPS
1 STOREROOM LOCKSET WITH BUTTON PAD ACCESS
2 SURFACE BOLTS - HEAD & SILL
2 DOOR BOTTOMS
1 ASTRAGAL
1 SET WEATHERSTRIPPING
1 THRESHOLD

HARDWARE GROUP 2
1-1/2 PAIR BUTT HINGES
1 CLOSER WITH INTEGRAL STOP
1 PRIVACY LOCKSET

HARDWARE GROUP 3
-- TWO ACTIVE LEAVES THIS OPENING --
3 PAIR BUTT HINGES
2 CLOSERS WITH INTEGRAL STOP
1 OFFICE LOCKSET
2 SURFACE BOLTS - HEAD & SILL

GLASS TYPES

A 1/4" CLEAR, TEMPERED.

NOTES:
- A.D.A COMPLIANT THRESHOLDS SHALL COMPLY WITH ICC A 117.1, 303.2-303.3. VERTICAL CHANGES IN LEVEL SHALL NOT EXCEED 1/4". CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
- FIRE-RATED DOOR ASSEMBLIES MUST SELF-CLOSE AND LATCH.

ROOM FINISH SCHEDULE

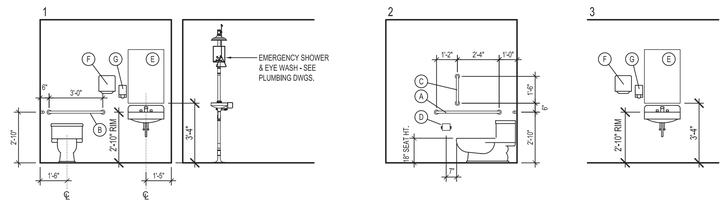
ROOM NO.	ROOM NAME	FLOOR MAT	FLOOR WALL BASE	WALLS NORTH MAT	WALLS NORTH FIN	WALLS SOUTH MAT	WALLS SOUTH FIN	WALLS EAST MAT	WALLS EAST FIN	WALLS WEST MAT	WALLS WEST FIN	CEILING MAT	CEILING CLG HT	REMARKS
001	UV ROOM	SC	-	CONC	PT-1	CONC	PT-1	CONC	PT-1	CONC	PT-1	PT-1	8'-4"	· .
101	BAR SCREEN	EPOXY	-	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	PT-1	VARIES	
102	CHEM FEED	SC	-	CMU	PT-2	CMU	PT-2	CMU	PT-2	CMU	PT-2	PT-2	VARIES	
103	TOILET	SC	-	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	PT-1	VARIES	
104	ELECTRICAL / OFFICE / STORAGE	SC	-	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	PT-1	VARIES	
105	BLOWER ROOM	SC	-	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	PT-1	VARIES	

FINISHES KEY

CMU	CONCRETE MASONRY UNITS
EPOXY	ANTI-STATIC EPOXY FLOORING
PT-1	INTERIOR LATEX PAINT
PT-2	HIGH-PERFORMANCE COATING
SC	SEALED CONCRETE
STRUCT	EXPOSED STRUCTURE

FINISH NOTES

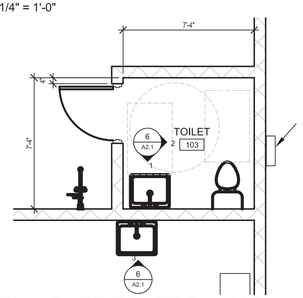
1. ALL INTERIOR FINISHES MUST CONFORM TO 2015 INTERNATIONAL BUILDING CODE WITH WISCONSIN AMENDMENTS, CHAPTER 8 INTERIOR FINISHES, AND ALL OTHER APPLICABLE CODES AND ORDINANCES INCLUDING IBC TABLE 803.11
2. FLOORS ARE TO BE INSTALLED SO AS TO PROVIDE POSITIVE DRAINAGE TO ALL FLOOR DRAINS, WHERE APPLICABLE. SET FLOOR DRAINS FLUSH WITH TOP OF CONCRETE FLOOR
3. CONTRACTOR TO INSTALL / FINISH / CLEAN / SEAL ALL FINISHES PER MANUFACTURER'S SPECIFICATION. SEALANTS / CAULKS ARE TO BE CLEAR SILICONE AND COMPATIBLE WITH FINISH UNLESS NOTED OTHERWISE
4. CONTRACTOR TO PROVIDE ADA COMPLIANT PLACARDS AT EACH RESTROOM



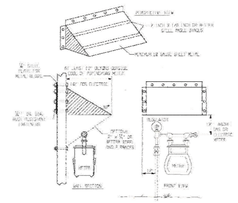
TOILET ROOM ACCESSORY SCHEDULE

SYMBOL	DESCRIPTION	TYPICAL MOUNTING HEIGHT
A	42" L HORIZONTAL GRAB BAR 1-1/2" O.D. STAINLESS STEEL	2'-10" O.C. A.F.F.
B	36" L HORIZONTAL GRAB BAR 1-1/2" O.D. STAINLESS STEEL	2'-10" O.C. A.F.F.
C	18" L VERTICAL GRAB BAR 1-1/2" O.D. STAINLESS STEEL	3'-4" TO 4'-10" O.C. A.F.F.
D	SURFACE MOUNT TOILET PAPER DISPENSER	1'-5" A.F.F. TO BOTTOM OF DISPENSER
E	MIN. 24" x 36" A.D.A. COMPLIANT MIRROR	3'-4" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE
F	SURFACE MOUNT PAPER TOWEL DISPENSER	3'-4" A.F.F. TO DISPENSER CONTROLS
G	SURFACE MOUNT HAND SOAP DISPENSER	3'-4" A.F.F. TO DISPENSER CONTROLS

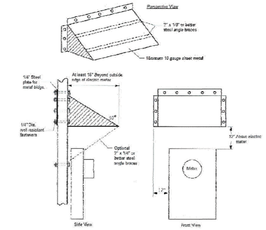
6 A2.1 TOILET ROOM ELEVATIONS
1/4" = 1'-0"



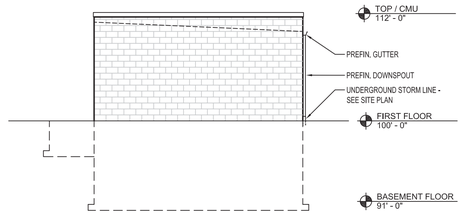
5 A2.1 ENLARGED TOILET ROOM PLAN
1/4" = 1'-0"



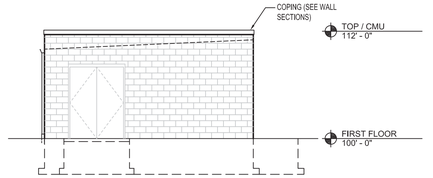
8 A2.1 GAS METER PROTECTION DETAIL
NTS



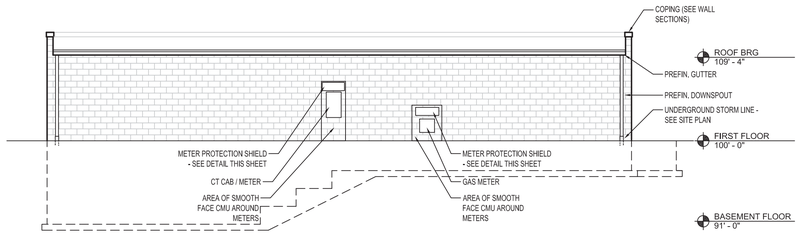
7 A2.1 ELECT. METER PROTECTION DETAIL
NTS



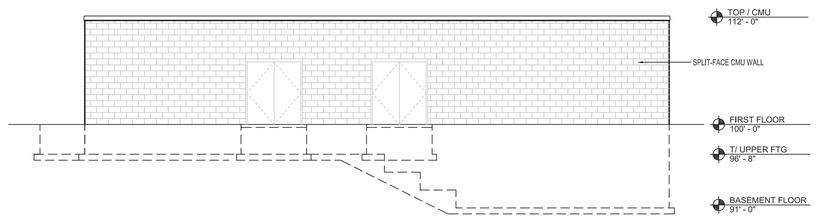
4 A2.1 SOUTH ELEVATION
1/8" = 1'-0"



3 A2.1 NORTH ELEVATION
1/8" = 1'-0"



2 A2.1 EAST ELEVATION
1/8" = 1'-0"



1 A2.1 WEST ELEVATION
1/8" = 1'-0"

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NO.	DATE	DRAWN BY	CHECKED	APPROVED
		KCV	KBS	KBS

REVISION

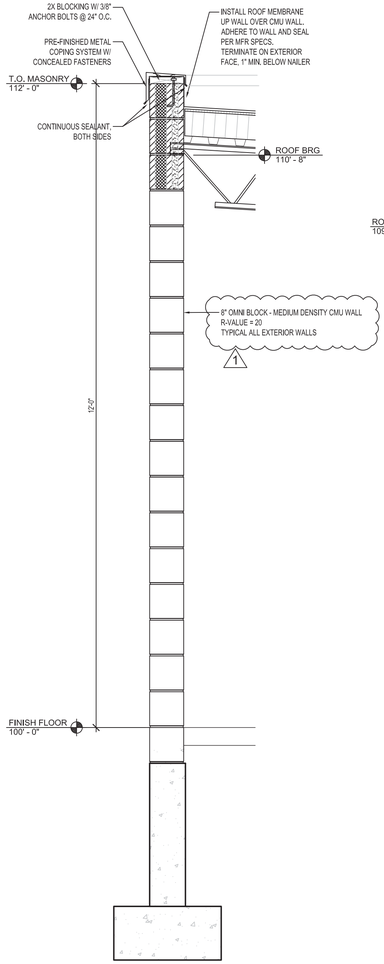
LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE	DATE
VARIES	10/16/2024

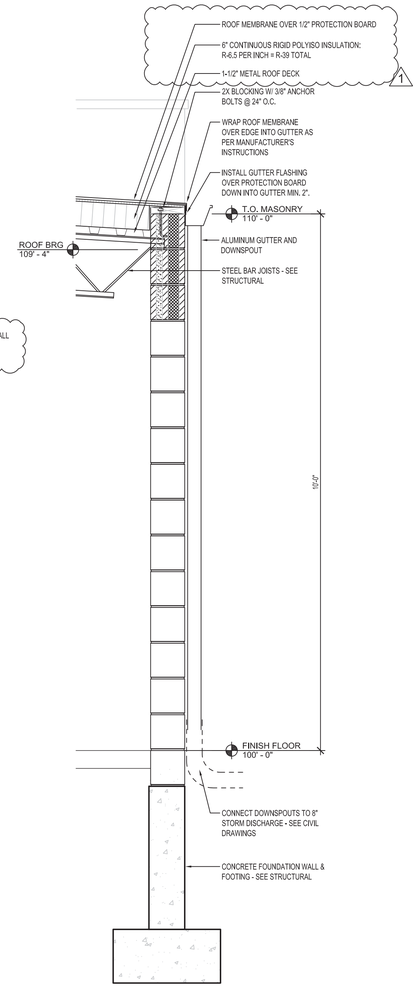
PROJECT NUMBER
1-0049-029

EXTERIOR ELEVATIONS, SCHEDULES, NOTES, AND ENLRD PLANS

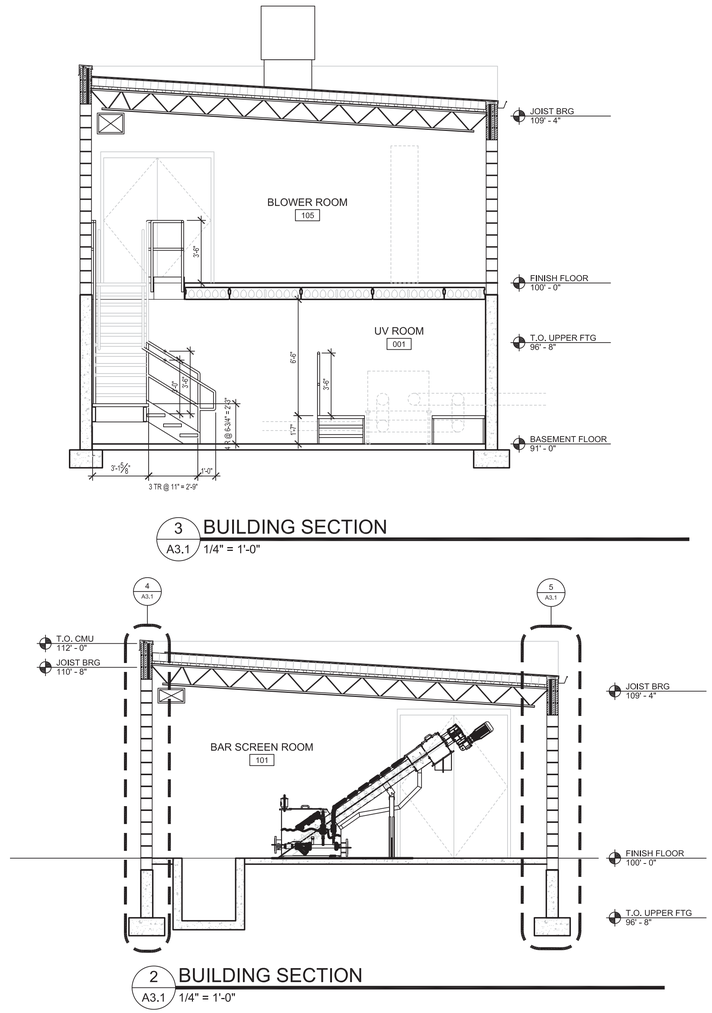
DRAWING NO.
A2.1



4 A3.1 WALL SECTION
3/4" = 1'-0"

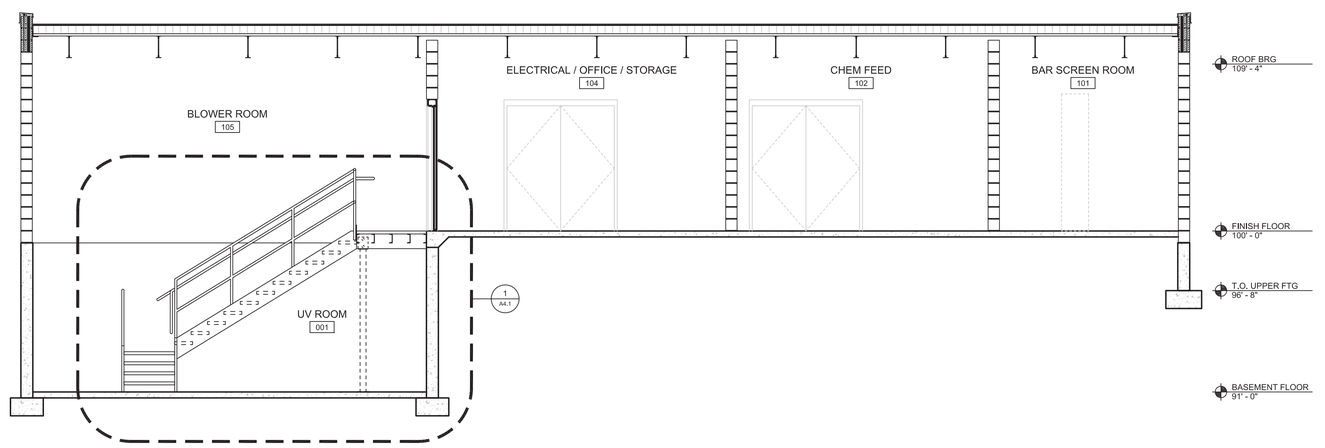


5 A3.1 WALL SECTION
3/4" = 1'-0"



3 A3.1 BUILDING SECTION
1/4" = 1'-0"

2 A3.1 BUILDING SECTION
1/4" = 1'-0"



1 A3.1 BUILDING SECTION
1/4" = 1'-0"

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NO.	DATE	REVISION	CHECKED	APPROVED
1	12/17/2024	THERMAL NOTE REVISIONS	KBS	KBS

DRAWN BY: KBS

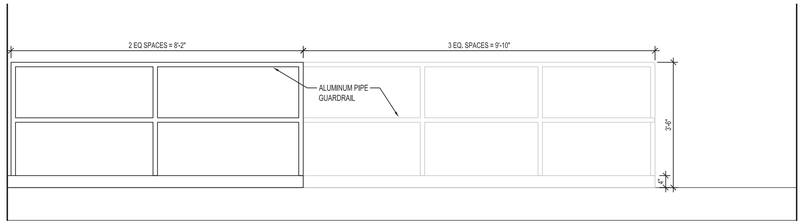
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SCALE	DATE
1/8"=1'-0"	10/16/2024

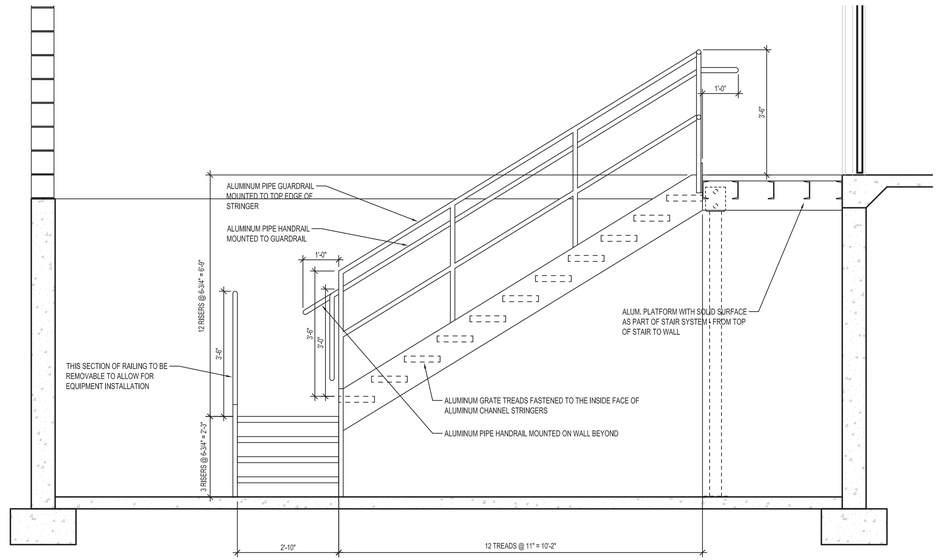
PROJECT NUMBER
1-0049-029

BUILDING SECTIONS

DRAWING NO.
A3.1



2 A4.1 GUARDRAIL ELEVATION
1/2" = 1'-0"



1 A4.1 STAIR SECTION
1/2" = 1'-0"

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			KBS	KBS

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LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE	DATE
AS NOTED	10/16/2024

PROJECT NUMBER
1-0049-029

STAIR SECTION

DRAWING NO.
A4.1

ASSUMED SOIL BEARING: 2000 PSF

ROOF/SNOW LOADS:

GROUND SNOW LOAD	Pg	40 PSF
IMPORTANCE FACTOR	I	1.0
EXPOSURE FACTOR	Ce	1.0
TEMPERATURE FACTOR	Ct	1.0
FLAT ROOF SNOW LOAD	Pf	31 PSF

WIND LOADS PER ASCE 7-05

ULTIMATE WIND SPEED	120 MPH
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR	1.0
INTERNAL PRESSURE COEFFICIENT	+/-0.18
WALLS 9.3 WINDWARD	-1.8 LEEWARD
ROOF -5.1 WINDWARD	-3.0 LEEWARD

SEISMIC LOADS:

Ss: 0.054	Sds: 0.057
S1: 0.038	Sd1: 0.061
Ie: 1.0	
OCCUPANCY CATEGORY:	III
SITE CLASS:	D
SEISMIC DESIGN CATEGORY:	A
Cs: 0.010W	

CODE REFERENCES
ALL WORK SHALL CONFORM TO THE LATEST VERSIONS OF THE FOLLOWING CONSTRUCTION AND MATERIAL CODES:

OVERALL:
- WISCONSIN ENROLLED COMMERCIAL CODE
- INTERNATIONAL BUILDING CODE 2015

CONCRETE:
- ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
- ACI MCP - "MANUAL OF CONCRETE PRACTICE"
- ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

CONCRETE REINFORCEMENT:
- ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- MSP2 - "CRSI MANUAL OF STANDARD PRACTICE"
- WRI - "WELDED WIRE FABRIC MANUAL OF STANDARD PRCTICE"

STEEL REINFORCING MATERIAL SPECIFICATIONS:
- ASTM A615 (GRADE 60) DEFORMED
- WELDED WIRE FABRIC: ASTM A185

REINFORCED MASONRY:
- ACI 530.1-99/ASCE 6-99/TMS 602-99 - "SPECIFICATIONS FOR MASONRY STRUCTURES"

STRUCTURAL STEEL DESIGN AND FABRICATION:
- AISC - "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STEEL FOR BUILDINGS"
- AISC - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"

STRUCTURAL STEEL MATERIAL SPECIFICATIONS:
- HOT ROLLED WIDE FLANGE AND WT SHAPES ASTM A992 (Fy)=50 KSI)
- ALL OTHER STRUCTURAL SHAPES AND PLATES - ASTM A36 (Fy)=36 KSI)
- STRUCTURAL STEEL PIPE - ASTM A53 GRADE B (Fy)=35 KSI)
- HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A500 GRADE B (Fy)=46 KSI)
- HIGH STRENGTH BOLTS - ASTM A325N (BEARING TYPE) OR ASTM A325F (FRICTION TYPE)
- ANCHOR BOLTS - ASTM F1554 GRADE 36 OR A36

STEEL JOISTS:
- SJI - "STANDARD SPEC. FOR OPEN WEB, LONGSPAN STEEL JOISTS AND JOIST GIRDERS
- SJI - "RECOMMENDED CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST GIRDERS

STEEL DECK:
- AWS D1.3 - "STRUCTURAL WELDING CODE - SHEET METAL"
- SDI - "CODE OF STANDARD PRACTICE"

GENERAL
1. ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE "WISCONSIN ENROLLED COMMERCIAL BUILDING CODE.
2. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS. CHASES, OPENINGS, INSERTS, SLEEVES OR OTHER ITEMS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND INSTALL THESE ITEMS.
3. OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE MODIFIED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND PROJECT WORKPOINTS. REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.
5. TYPICAL DETAILS NOT SPECIFICALLY LOCATED ON THE DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE CONTRACT DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY ON THE CONTRUCTION SITE.

FOUNDATIONS
1. FOUNDATION WORK FOR THIS PROJECT SHALL CONSIST OF SPREAD FOOTINGS, GRADE BEAMS, CONTINUOUS WALL FOOTINGS, DRILLED CONCRETE PIERS, AND SLABS-ON-GRADE.
2. FOUNDATIONS ARE DESIGNED TO BE SUPPORTED ON APPROVED EXISTING SUBGRADE OR APPROVED COMPACTED STRUCTURAL FILL HAVING AN ASSUMED BEARING CAPACITY OF 2000 PSF
3. ALL EXTERIOR FOUNDATIONS SHALL BEAR ON APPROVED SUBGRADE AT A MINIMUM DEPTH OF 4'-0" BELOW ADJACENT EXTERIOR FINISH GRADE.
4. FOOTING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EXCAVATION REQUIRED TO REACH SUITABLE BEARING MATERIAL.
5. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS ADJACENT TO EXISTING STRUCTURES, STREETS, UTILITIES OR PROPERTY TO PREVENT HORIZONTAL OR VERTICAL MOVEMENT OF THE ADJACENT SOIL OR PROPERTY.
6. CONTRACTOR SHALL CONTROL SURFACE AND SUBSURFACE WATER TO INSURE THAT ALL FOUNDATION WORK IS DONE IN THE DRY.
7. DO NOT PLACE FOUNDATIONS ON FROZEN SUBGRADE. IF FROST OCCURS, CONTRACTOR SHALL REMOVE FROZEN SUBGRADE, PLACE COMPACTED FILL AND PLACE CONCRETE PRIOR TO NEW FROST PENETRATION.
8. PROTECT ALL EXPOSED CONCRETE FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE.
9. BRACE FOUNDATION WALLS DURING BACKFILLING AND COMPACTION OPERATIONS. BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT STRUCTURAL SUPPORT IS INSTALLED AND APPROVEDD BY THE ENGINEER.
10. BACKFILL WALLS EVENLY ON BOTH SIDES.

CONCRETE
1. CONCRETE SHALL HAVE A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS:

SLABS-ON-GRADE	3,000 PSI
FOOTINGS AND FROST WALLS	3,000 PSI
EXTERIOR EXPOSED CONCRETE	3,000 PSI

2. CONCRETE TO BE EXPOSED TO THE WEATHER SHALL HAVE AIR-ENTRAINING ADMIXTURE AS REQUIRED TO PROVIDE 4-6% AIR ENTRAINMENT.
3. GROUT USED TO SET PLATES SHALL BE NON-SHRINK AND NON-METALLIC.
4. CONTRACTOR SHALL USE SMOOTH FORMS FOR EXPOSED CONCRETE SURFACES. BOARD FORMS MAY BE USED FOR UNEXPOSED CONCRETE SURFACES. EARTH FORMS ARE FORBIDDEN.
5. PROVIDE A MINIMUM OF 6" COMPACTED GRANULAR FILL UNDER ALL SLABS-ON-GRADE.
6. WHEN RELEASE AGENTS ARE USED ON FORMWORK, SPRAY FORMWORK AWAY FROM REBAR. REBAR SPRAYED WITH RELEASE AGENT MUST BE CLEANED PRIOR TO CONCRETE PLACEMENT.

REINFORCEMENT
1. REINFORCEMENT FABRICATOR SHALL PROVIDE AND SCHEDULE ON SHOP DRAWINGS ALL REQUIRED REINFORCING STEEL AND THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN PLACE AT THE CORRECT LOCATIONS.
2. CLEARANCES FOR REINFORCEMENT: CONCRETE PLACED DIRECTLY ON EARTH (FOOTINGS, SLABS, ETC.) 3" FROM BOTTOM; ALL OTHER CONCRETE PROVIDE 2" CLEAR TO REINFORCING, UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. CONTRACTOR SHALL REFER TO TYPICAL DETAILS SHOWN ON CONTRACT DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. WHERE REINFORCEMENT IS REQUIRED IN SECTIONS, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER SECTION APPLIES.
5. WELDED WIRE FABRIC SHALL LAP A MINIMUM OF 6" AND BE TIED TOGETHER.
6. CONTRACTOR SHALL NOTIFY ARCHITECT OF COMPLETION OF REINFORCEMENT INSTALLATION AND ALLOW AT LEAST 24 HOURS BEFORE SCHEDULED CONCRETE PLACEMENT FOR ARCHITECT TO INSPECT REINFORCEMENT.

REINFORCED MASONRY
1. CONCRETE BLOCK SHALL CONFORM TO ASTM C-90. THE REQUIRED STRENGTH ON THE NET CROSS SECTIONAL AREA OF THE CONCRETE BLOCK SHALL BE 2,500 PSI.
2. MORTAR SHALL BE TYPE M OR S, CONFORMING TO ASTM C270.
3. GROUT SHALL CONFORM TO ASTM C476. GROUT MAY BE PLACED BY THE "HIGH LIFT" METHOD, CONFORMING TO THE GROUTING PATTERNS REQUIRED BY THE CONTRACT DRAWINGS.
4. THE REQUIRED MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE COMBINATION OF CONCRETE BLOCK, GROUT AND MORTAR ON THE NET AREA OF THE WALL (f'm) SHALL BE A MINIMUM OF 1,830 PSI.
5. THE ACTUAL 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY ASSEMBLY (F'm) SHALL BE DETERMINED AS DESCRIBED IN SECTION 1.6 OF ACI 530.1-05/ASCE 6-05/TMS 602-05.
6. CONCRETE BLOCK MASONRY UNITS SHALL BE LAID IN RUNNING BOND, UNLESS NOTED OTHERWISE.
7. MASONRY BLOCK CELLS CONTAINING VERTICAL REINFORCING SHALL BE GROUTED SOLID. FILLING CELLS WITH MORTAR IS UNACCEPTABLE.
8. THE BASE OF EACH CELL, IN WHICH A BAR IS PLACED, MUST HAVE A CLEANOUT HOLE.
9. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. VERTICAL REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS.
10. PROVIDE CONTINUOUS REINFORCED BOND-BEAMS IN ALL REINFORCED MASONRY WALLS AT TOPS OF WALLS, IMMEDIATELY BELOW STEEL BEARINGS, AND WHEREVER CALLED FOR IN CONTRACT DRAWINGS. BOND BEAMS AT TOP OF WALL SHALL BE CONTINUOUS AT MASONRY CONTROL JOINTS. OTHER BOND BEAMS SHALL NOT BE CONTINUOUS AT MASONRY CONTROL JOINTS. BOND BEAM REINFORCING SHALL EXTEND INTO AND BE CONTINUOUS WITH ALL INTERSECTING BOND BEAMS.
11. REINFORCED MASONRY WALLS SHALL HAVE #9 GAUGE (TRUSS TYPE) HORIZONTAL REINFORGING AT SPACING AS NOTED ON THE CONTRACT DRAWINGS, BUT AT A MAXIMUM OF 16" O.C. VERTICALLY.
12. FILL CORES OF MASONRY UNDER ALL BEARING PLATES FOR A WIDTH EQUAL TO THREE TIMES THE BEARING PLATE LENGTH FOR THREE COURSES BELOW BEARING, OR AS SHOWN ON DRAWINGS.
13. IN NON-LOAD BEARING WALLS PROVIDE AND INSTALL ONE LINTEL FOR EACH 4" OF WALL THICKNESS ACCORDING TO THE FOLLOWING SCHEDULE:

OPENING	LINTEL
3'-0"	L3 1/2X3 1/2X 5/16
4'-0"	L4X3 1/2X5/16
5'-0"	L4X3 1/2X5/16
6'-0"	L5X3 1/2X5/16
7'-0"	L6X3 1/2X5/16

LINTELS SHALL BEAR A MINIMUM OF 6" ON EACH SIDE OF OPENING. LONG LEG OF ANGLE SHALL BE VERTICAL.

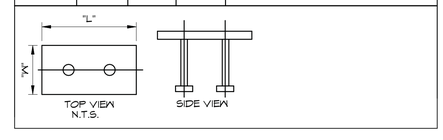
STRUCTURAL STEEL
1. PROVIDE 2 MIL. THICK RED OR GREY OXIDE PRIMER ON ALL STEEL SURFACES UNLESS NOTED OTHERWISE.
2. ANCHOR BOLTS SHALL BE PRESET WITH TEMPLATES AT REQUIRED LOCATIONS.
3. LEVELING PLATES AND BEARING PLATES SHALL BE SET IN FULL BED OF NON-SHRINK GROUT.
4. CONNECTIONS MAY BE EITHER BOLTED OR WELDED AT THE FABRICATOR'S OPTION. BOLTED CONNECTIONS SHALL BE AS FOLLOWS:
5. MINIMUM BOLT DIAMETER: 3/4"
6. ALL BEAM CONNECTIONS NOT DETAILED, SHALL SUPPORT 1/2 OF THE TOTAL UNIFORM LOAD CAPACITY FOR THE GIVEN BEAM AND SPAN OR THE INDICATED REACTION, WHICHEVER IS GREATER. CONNECTIONS SHALL GENERALLY FOLLOW THE TYPES SHOWN IN THE "AISC MANUAL OF STEEL CONSTRUCTION", TABLE II, III, OR X.
7. WELDS SHALL FULLY DEVELOP STRENGTH OF THE MATERIALS BEING WELDED, UNLESS NOTED OTHERWISE, EXCEPT THAT FILLET WELDS SHALL BE A MINIMUM 3/16".
8. WELDED CONNECTIONS SHALL BE MADE BY APPROVED CERTIFIED WELDERS USING FILLER METAL CONFORMING TO E70XX.
9. CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN POSITION. TEMPORARY BRACING SHALL REMAIN UNTIL THE PERMANENT LATERAL BRACING HAS BEEN INSTALLED AND THE CONCRETE FOR FLOOR SLABS HAS ATTAINED 75% OF ITS REQUIRED STRENGTH.
10. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE FINAL BOLTING OR WELDING OF CONNECTIONS.
11. CONTRACTOR SHALL NOT MODIFY OR CUT ANY STRUCTURAL STEEL WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
12. CONTRACTOR SHALL FIELD TOUCH UP ALL ABRASIONS, BURNS, AND SIMILAR DEFECTS IN PAINT OF THE STRUCTURAL STEEL, JOISTS, AND STEEL DECK.

STEEL DECK
1. ROOF DECK SHALL BE 1-1/2" DEEP X 22 GAUGE, WIDE RIB STEEL DECK CONFORMING TO ASTM A446, GRADE A (GALVANIZED) WITH A MINIMUM YIELD STRESS OF 33 KSI.
2. GALVANIZING SHALL CONFORM TO ASTM A525, COATING CLASS G-60 OR G-90.
3. STEEL DECK SHALL EXTEND OVER THREE OR MORE SPANS WHENEVER POSSIBLE.
4. STEEL ROOF DECK SHALL BE FASTENED TO SUPPORTS WITH #12-24 TEK SCREWS OR HILTI ENP2 NAILS AT SPACING NOTED ON DRAWINGS. SIDE LAPS SHALL BE FASTENED WITH #10-16 TEK SCREWS AT SPACING AS NOTED ON DRAWINGS.

STEEL JOISTS
1. STEEL JOISTS SHALL BE STANDARD K-SERIES, WITH 2-1/2" DEEP JOIST SEAT, UNLESS OTHERWISE NOTED ON PLANS.
2. PROVIDE BRIDGING IN CONFORMANCE WITH THE STEEL JOIST INSTITUTE RECOMMENDATIONS.
3. JOIST MANUFACTURER SHALL PROVIDE CONNECTIONS FOR CROSS BRIDGING WHERE REQUIRED.
4. JOISTS SHALL RECEIVE ONE COAT OF SHOP PAINT CONFORMING TO THE MINIMUM REQUIREMENTS OF THE "STEEL STRUCTURES PAINTING COUNCIL SPECIFICATIONS".
5. SUSPENDED LOADS SHALL BE APPLIED AT PANEL POINTS OF JOISTS OR ADDITIONAL JOIST WEB MEMBERS ARE TO BE ADDED PER THE TYPICAL DETAILS.
6. K-SERIES JOISTS SHALL BE ATTACHED TO SUPPORTS WITH A MINIMUM OF 2-3/16" FILLET WELDS, 1 1/2" INCHES LONG.
7. MINIMUM BEARING ON STEEL SUPPORT SHALL BE 2-1/2" FOR K-SERIES AND 4" FOR LH SERIES.
8. FOR MASONRY SUPPORTS, UNLESS DETAILED OTHERWISE, THE JOISTS SHALL BEAR ON A 1/2" STEEL PLATE, 6" WIDE X 6" LONG (MINIMUM), ANCHORED TO THE MASONRY WITH (2) 1/2" DIA. X 4" HEADED STUDS.
9. PROVIDE BOLTED CONNECTIONS AT COLUMNS FOR ERECTION.
10. CONTRACTOR SHALL SUBMIT COMPLETE, DETAILED SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. INCLUDE METHODS OF FASTENING AND MISCELLANEOUS ITEMS.

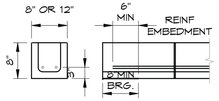
MASONRY BEARING PLATES

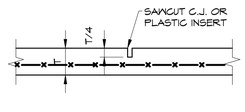
MARK	L	W	T	STUDS
BP-1	6"	6"	1/2"	(2) ½"x4" HEADED STUDS



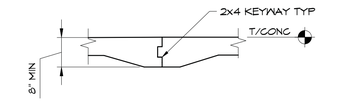
MASONRY LINTEL SCHEDULE

MARK	TYPE	MAS. WIDTH	SIZE	BEARING	DETAIL
L1	MASONRY	8" OR 12"	16" BB (2) # 5 CONT	8"	D-1

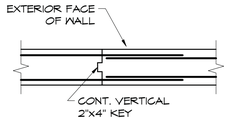




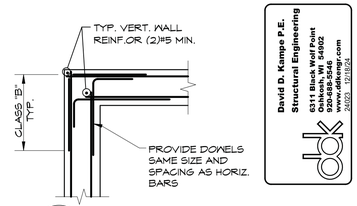
1 S1.1 CONTROL JOINT



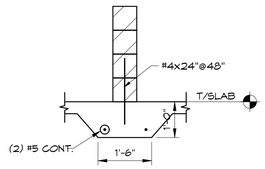
2 S1.1 CONSTRUCTION JOINT



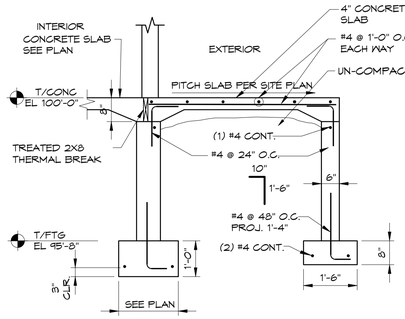
3 S1.1 WALL JOINT



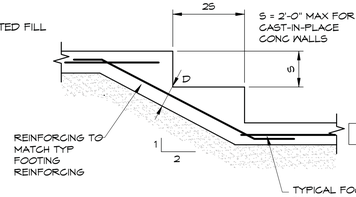
4 S1.1 WALL CORNER



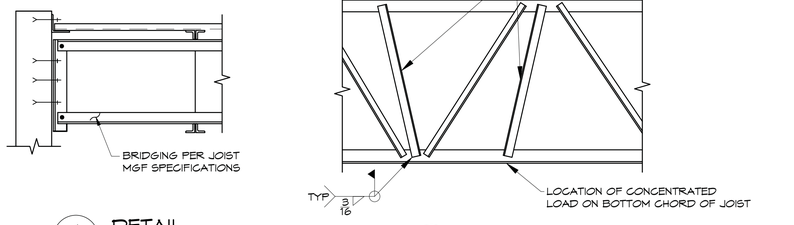
5 S1.1 THICKENED SLAB



6 S1.1 SECTION STOOP



7 S1.1 FOOTING STEP

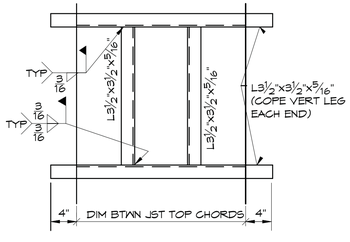


5 S1.1 DETAIL POINT LOAD ON JOIST



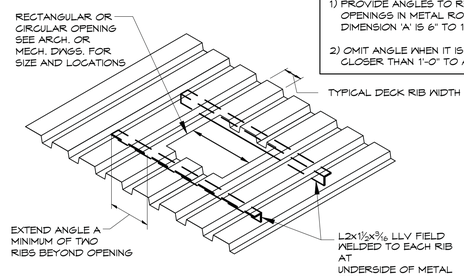
4 S1.1 DETAIL BRIDGING TERMINATION

* DIMENSION BY MECH CONTR
NOTE:
DECK SUPPLIER TO PROVIDE 1½" HIGH, 20 GAGE CHANNEL CLOSURE ALONG NON-BEARING SIDES OF DECK.



6 S1.1 DETAIL FRAMED DECK OPENING

NOTES:
1) PROVIDE ANGLES TO REINFORCE ALL OPENINGS IN METAL ROOF DECK WHOSE DIMENSION 'A' IS 6" TO 12".
2) OMIT ANGLE WHEN IT IS PARALLEL TO AND CLOSER THAN 1'-0" TO A STRUCTURAL MEMBER



7 S1.1 DETAIL DECK OPENING

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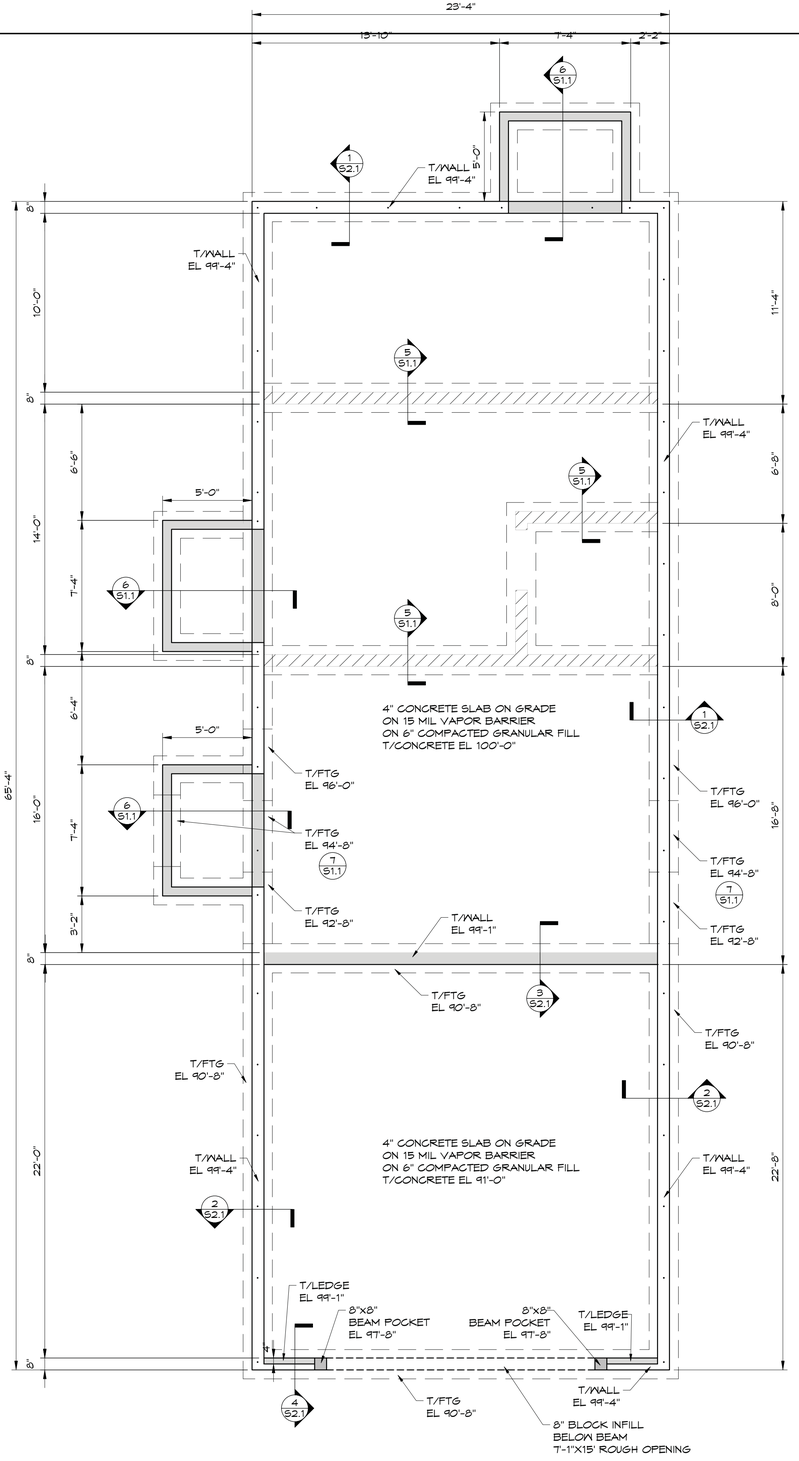
LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE	DATE
	05/31/2024

PROJECT NUMBER
1-0049-029

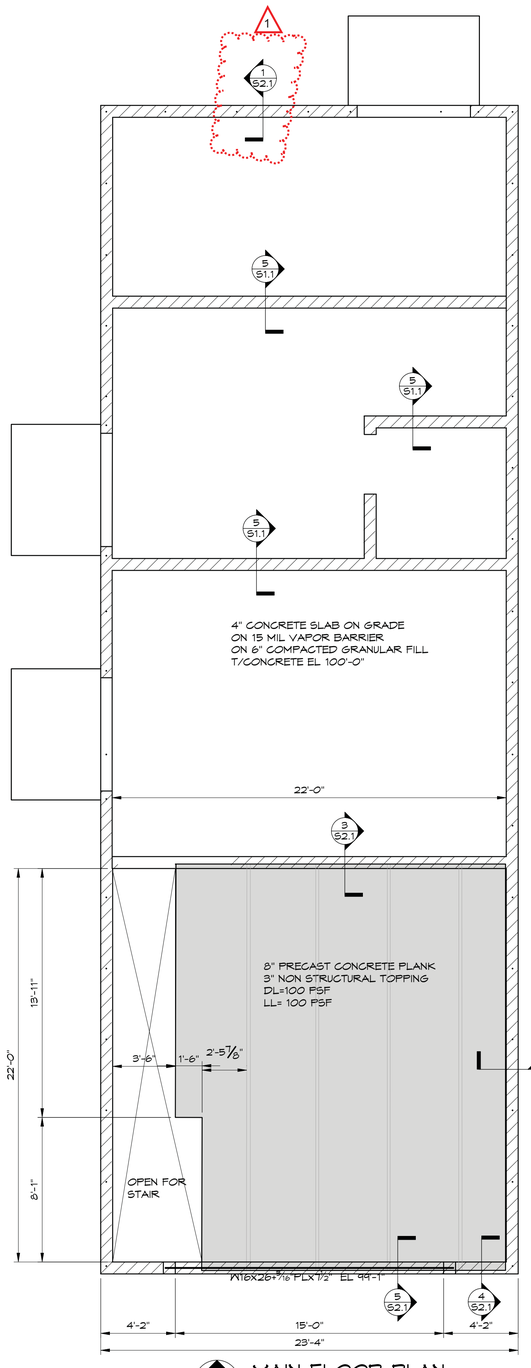
STRUCTURAL NOTES AND DETALS

DRAWING NO.
S1.1



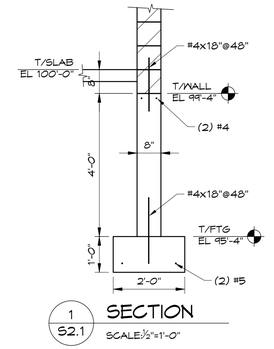
FOUNDATION PLAN

SCALE: ¼" = 1'-0"



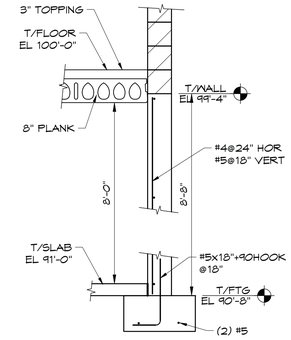
MAIN FLOOR PLAN

SCALE: ¼" = 1'-0"



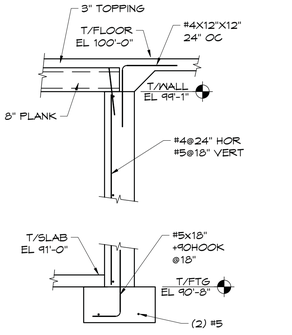
1 S2.1 SECTION

SCALE: ½"=1'-0"



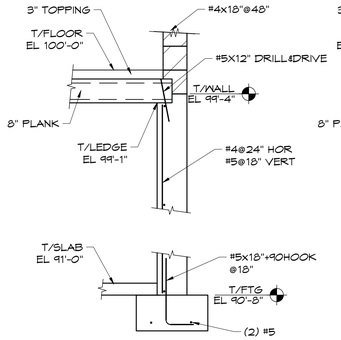
2 S2.1 SECTION

SCALE: ½"=1'-0"



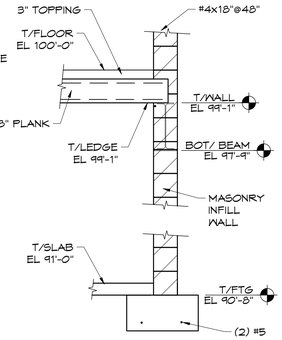
3 S2.1 SECTION

SCALE: ½"=1'-0"



4 S2.1 SECTION

SCALE: ½"=1'-0"



5 S2.1 SECTION

SCALE: ½"=1'-0"

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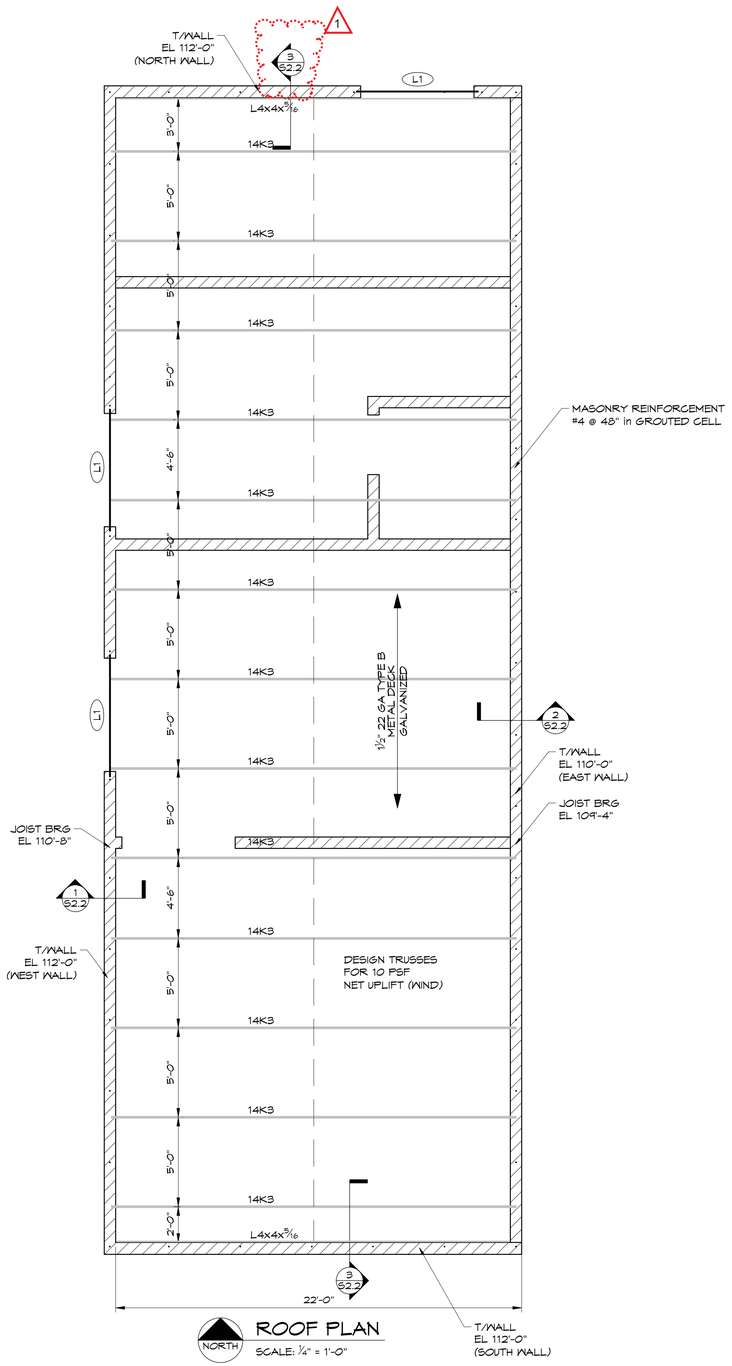
SCALE	DATE
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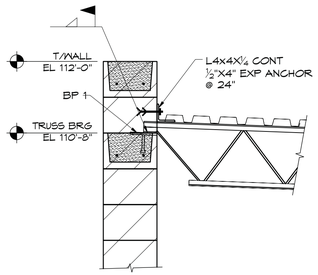
FOUNDATION PLAN DETAILS

1

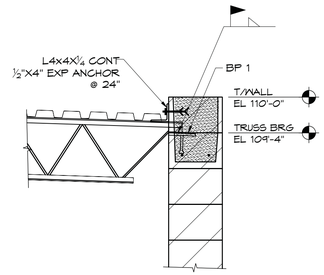
DRAWING NO.
S2.1



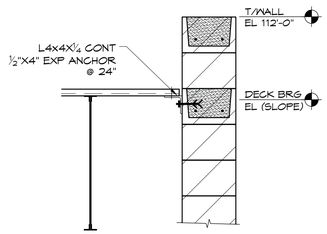
ROOF PLAN
SCALE: ¼" = 1'-0"



1 S2.2 **SECTION**
SCALE: ¾"=1'-0"



2 S2.2 **SECTION**
SCALE: ¾"=1'-0"



3 S2.2 **SECTION**
SCALE: ¾"=1'-0"

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ROOF PLAN
DETAILS

DRAWING NO.
S2.2

CODE REFERENCES
ALL WORK SHALL CONFORM TO THE LATEST VERSIONS OF THE FOLLOWING CONSTRUCTION AND MATERIAL CODES:

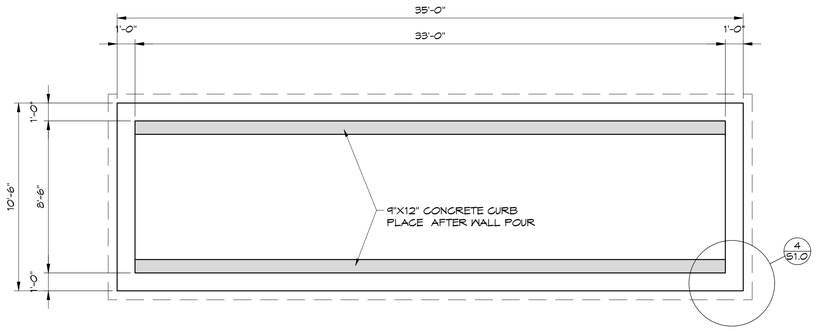
OVERALL:
WISCONSIN ENROLLED COMMERCIAL CODE
INTERNATIONAL BUILDING CODE 2015
CONCRETE:
ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
ACI MCP - "MANUAL OF CONCRETE PRACTICE"
ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
CONCRETE REINFORCEMENT:
ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
MSP2 - "CRSI MANUAL OF STANDARD PRACTICE"
WRI - "WELDED WIRE FABRIC MANUAL OF STANDARD PRCTICE"
STEEL REINFORCING MATERIAL SPECIFICATIONS:
ASTM A615 (GRADE 60) DEFORMED
WELDED WIRE FABRIC: ASTM A185

GENERAL
1. ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE "WISCONSIN ENROLLED COMMERCIAL BUILDING CODE.
2. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS. CHASES, OPENINGS, INSERTS, SLEEVES OR OTHER ITEMS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND INSTALL THESE ITEMS.
3. OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE MODIFIED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND PROJECT WORKPOINTS. REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.
5. TYPICAL DETAILS NOT SPECIFICALLY LOCATED ON THE DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE CONTRACT DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY ON THE CONTRUCTION SITE.

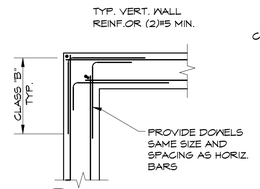
FOUNDATIONS
1. FOUNDATION WORK FOR THIS PROJECT SHALL CONSIST OF SPREAD FOOTINGS, GRADE BEAMS, CONTINUOUS WALL FOOTINGS, DRILLED CONCRETE PIERS, AND SLABS-ON-GRADE.
2. FOUNDATIONS ARE DESIGNED TO BE SUPPORTED ON APPROVED EXISTING SUBGRADE OR APPROVED COMPACTED STRUCTURAL FILL HAVING AN ASSUMED BEARING CAPACITY OF 2000 PSF.
3. ALL EXTERIOR FOUNDATIONS SHALL BEAR ON APPROVED SUBGRADE AT A MINIMUM DEPTH OF 4'-0" BELOW ADJACENT EXTERIOR FINISH GRADE.
4. FOOTING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EXCAVATION REQUIRED TO REACH SUITABLE BEARING MATERIAL.
5. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS ADJACENT TO EXISTING STRUCTURES, STREETS, UTILITIES OR PROPERTY TO PREVENT HORIZONTAL OR VERTICAL MOVEMENT OF THE ADJACENT SOIL OR PROPERTY.
6. CONTRACTOR SHALL CONTROL SURFACE AND SUBSURFACE WATER TO INSURE THAT ALL FOUNDATION WORK IS DONE IN THE DRY.
7. DO NOT PLACE FOUNDATIONS ON FROZEN SUBGRADE. IF FROST OCCURS, CONTRACTOR SHALL REMOVE FROZEN SUBGRADE, PLACE COMPACTED FILL AND PLACE CONCRETE PRIOR TO NEW FROST PENETRATION.
8. PROTECT ALL EXPOSED CONCRETE FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE.
9. BRACE FOUNDATION WALLS DURING BACKFILLING AND COMPACTION OPERATIONS. BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT STRUCTURAL SUPPORT IS INSTALLED AND APPROVEDD BY THE ENGINEER.
10. BACKFILL WALLS EVENLY ON BOTH SIDES.

CONCRETE
1. CONCRETE SHALL HAVE A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS:
SLABS-ON-GRADE 3,000 PSI
FOOTINGS AND FROST WALLS 3,000 PSI
EXTERIOR EXPOSED CONCRETE 3,000 PSI
2. CONCRETE TO BE EXPOSED TO THE WEATHER SHALL HAVE AIR-ENTRAINING ADMIXTURE AS REQUIRED TO PROVIDE 4-6% AIR ENTRAINMENT.
3. GROUT USED TO SET PLATES SHALL BE NON-SHRINK AND NON-METALLIC.
4. CONTRACTOR SHALL USE SMOOTH FORMS FOR EXPOSED CONCRETE SURFACES. BOARD FORMS MAY BE USED FOR UNEXPOSED CONCRETE SURFACES. EARTH FORMS ARE FORBIDDEN.
5. PROVIDE A MINIMUM OF 6" COMPACTED GRANULAR FILL UNDER ALL SLABS-ON-GRADE.
6. WHEN RELEASE AGENTS ARE USED ON FORMWORK, SPRAY FORMWORK AWAY FROM REBAR. REBAR SPRAYED WITH RELEASE AGENT MUST BE CLEANED PRIOR TO CONCRETE PLACEMENT.

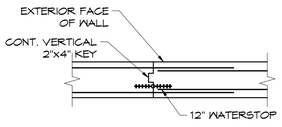
REINFORCEMENT
1. REINFORCEMENT FABRICATOR SHALL PROVIDE AND SCHEDULE ON SHOP DRAWINGS ALL REQUIRED REINFORCING STEEL AND THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN PLACE AT THE CORRECT LOCATIONS.
2. CLEARANCES FOR REINFORCEMENT: CONCRETE PLACED DIRECTLY ON EARTH (FOOTINGS, SLABS, ETC.) 3" FROM BOTTOM; ALL OTHER CONCRETE PROVIDE 2" CLEAR TO REINFORCING, UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. CONTRACTOR SHALL REFER TO TYPICAL DETAILS SHOWN ON CONTRACT DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
4. WHERE REINFORCEMENT IS REQUIRED IN SECTIONS, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER SECTION APPLIES.
5. WELDED WIRE FABRIC SHALL LAP A MINIMUM OF 6" AND BE TIED TOGETHER.
6. CONTRACTOR SHALL NOTIFY ARCHITECT OF COMPLETION OF REINFORCEMENT INSTALLATION AND ALLOW AT LEAST 24 HOURS BEFORE SCHEDULED CONCRETE PLACEMENT FOR ARCHITECT TO INSPECT REINFORCEMENT.



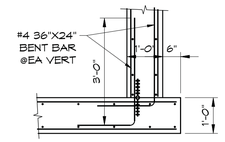
1 S1.0 FOUNDATION PLAN
SCALE: ¼" = 1'-0"



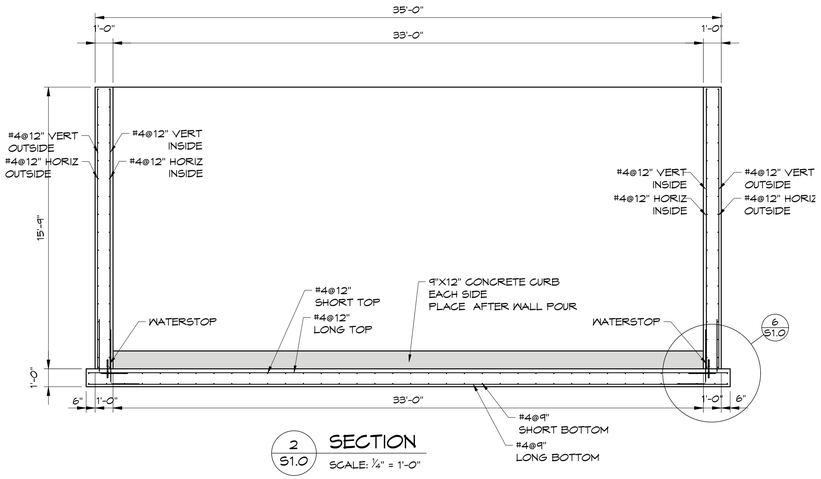
4 S1.0 WALL CORNER



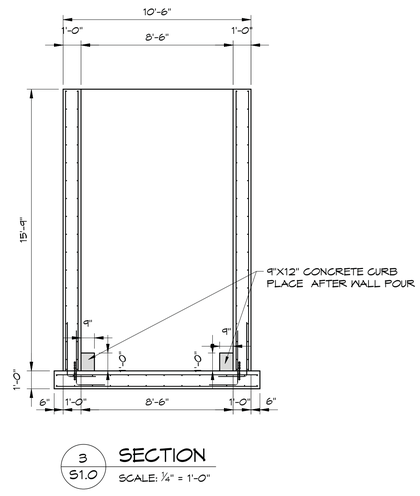
5 S1.0 WALL JOINT



6 S1.0 SECTION



2 S1.0 SECTION
SCALE: ¼" = 1'-0"



3 S1.0 SECTION
SCALE: ¼" = 1'-0"

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POLISHING
TANK

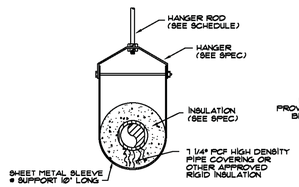
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S2.3

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info@lgdeng.com
www.lgdeng.com

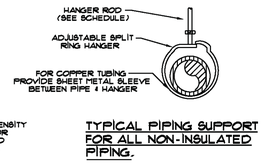
Lubenow Gobster Dominiak & Associates, Inc.
Plumbing & Fire Protection Consulting Engineers

PIPE SUPPORT SCHEDULE						
PIPE SIZE (INCHES)	MAXIMUM SPACING (FEET)					HANGER ROD SIZE (INCHES)
	PVC	CPVC	COPPER	STEEL	CAST	
1/2	2 1/2	2 1/2	6	5	-	3/8
3/4	2 1/2	2 1/2	6	6	-	3/8
1	2 1/2	2 1/2	6	7	-	3/8
1 1/4	3	3	6	8	-	3/8
1 1/2	3	3	10	9	5	3/8
2	3	3	10	10	5	3/8
2 1/2	3 1/2	3 1/2	10	11	5	3/8
3	3 1/2	3 1/2	10	12	5	3/8
4	4	4	10	12	5	1/2
5	4	4	10	12	5	1/2
6	4	4	10	12	5	1/2
8	4	4	10	12	5	1/2
10	4	4	10	12	5	1/2
12	4	4	10	12	5	5/8
14	4	4	-	6	-	5/8
15	-	-	-	6	5	5/8
16	4	4	-	-	-	5/8
18	4	-	-	6	-	5/8
20	4	-	-	-	-	5/8

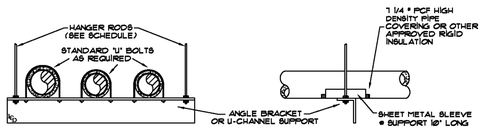
NOTES:
1. PIPING MATERIALS LISTED IN THIS SCHEDULE MAY NOT BE ACCEPTABLE FOR ALL APPLICATIONS. REFER TO SPECIFICATIONS SECTION 221005 FOR INTENDED AND APPROVED USAGE.
2. A HIGH DENSITY RIGID INSULATION SHALL BE USED AT ALL PIPE SUPPORTS AND HANGERS FOR COPPER AND CPVC TUBE SIZES 2" & LARGER AND FOR STEEL PIPE 1-1/2" & LARGER.



TYPICAL PIPING SUPPORT FOR ALL INSULATED PIPING.



TYPICAL PIPING SUPPORT FOR ALL NON-INSULATED PIPING.



TRAPEZE HANGER DETAIL

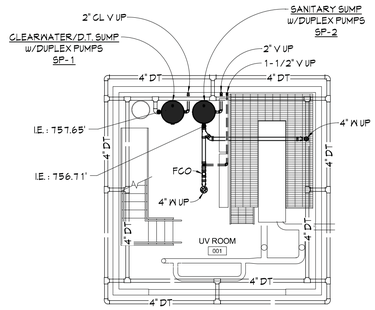
4 PIPE SUPPORT DETAILS
NOT TO SCALE

KEY OF PLUMBING SYMBOLS

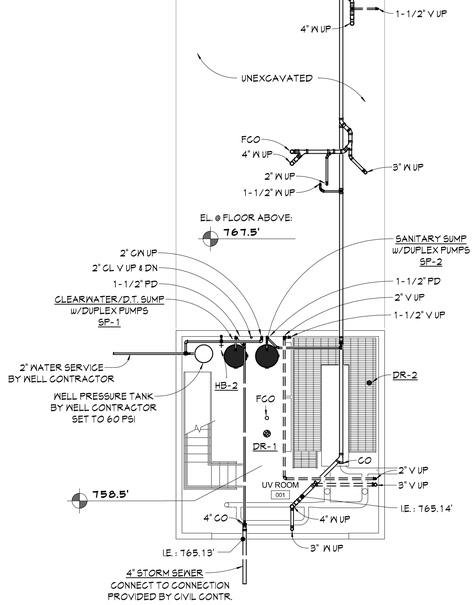
SYMBOLS	ABBR.	DESCRIPTION	SYMBOLS	ABBR.	DESCRIPTION
	SAN.S.	SANITARY SEWER OR DRAIN	DT	DTR.	DRAIN TILE RECEIVER WITH TRAP AND CLEANOUT
	W.	SANITARY WASTE PIPING	DT	DTCO	DRAIN TILE CLEANOUT
	STM.S.	STORM SEWER OR DRAIN		C.C. / P.C.	CAPPED CONNECTION or PLUGGED CONNECTION
	COND.	CONDUCTOR PIPING		H.B.	HOSE BIBB
AW	A.W.	ACID WASTE PIPING		R.D.	ROOF DRAIN
GW	G.W.	GREASY WASTE PIPING		F.D.	FLOOR DRAIN
CL	CL.W.	CLEARWATER WASTE PIPING		H.D.	HUB DRAIN
DT	D.T.	DRAIN TILE		F.S.	FLOOR SINK
	V.	VENT PIPING		EL.	FLOOR AND/OR GRADE ELEVATION
CL	CL.V.	CLEARWATER VENT	I.E: 0'-0"	I.E.	INVERT ELEVATION (ARCHITECTURAL DATUM)
AV	AV.	ACID VENT PIPING	I.E: 0.0'	I.E.	INVERT ELEVATION (ENGINEERING DATUM)
	CW.	COLD WATER PIPING		B.O.	FURNISHED BY-OTHERS (PLB. ROUGH-IN & CONN.)
S	CW.S.	SOFTENED COLD WATER PIPING	A123	RM.	ROOM NUMBERS
	HW.	HOT WATER PIPING		V.T.	VENT TERMINAL
	CR.	HOT WATER CIRCULATING RETURN PIPING		THERM.	THERMOMETER
G	G.	GAS PIPING		P.G.	PRESSURE GAUGE
A	A.	COMPRESSED AIR PIPING		W.H.A.	WATER HAMMER (SHOCK) ARRESTOR
NP	N.P.	NON-POTABLE WATER		SAWCUT	APPRX. AREA OF EXISTING FLOOR TO BE REMOVED
	BL.V.	BALL VALVE		UN.	UNION OR DIELECTRIC UNION
	BF.V.	BUTTERFLY VALVE		V.T.R.	VENT THROUGH ROOF
PRV	PRV	PRESSURE REGULATING VALVE		A.F.	ABOVE FLOOR
CK.V.	CK.V.	CHECK VALVE		W.S.	WASTE STACK
	B.V.	BALANCING VALVE		V.S.	VENT STACK
CO FCO	CO/FCO	CLEANOUT or FLUSH CLEANOUT (AS NOTED)			

GENERAL NOTES

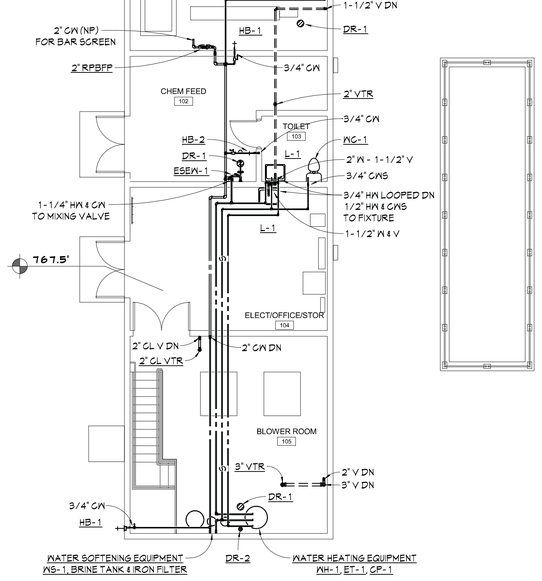
1. FIXTURES OR EQUIPMENT IDENTIFIED AS BEING 'BY-OWNER' OR 'BY-OTHERS' INDICATE SPECIFIC FIXTURES OR EQUIPMENT FURNISHED BY ANOTHER CONTRACTOR, VENDOR OR THE OWNER. THEIR NUMBER, KIND, APPROXIMATE SIZE AND POSITION OF OUTLETS ARE FOR THE USE OF ESTIMATING ONLY. THE EXACT DIMENSIONS FOR ROUGHING-IN AND CONNECTION LOCATION SHALL BE OBTAINED FROM THE MECHANICAL DRAWINGS FURNISHED BY THE EQUIPMENT CONTRACTOR OR OWNER.
2. PROVIDE SHUT-OFF STOPS OR VALVES AT EACH FIXTURE AND PIECE OF EQUIPMENT.
3. ISOMETRIC DIAGRAMS SHOW THE KIND OF FIXTURE AND NOT THE SPECIFIC TYPE. REFER TO THE FLOOR PLANS FOR SPECIFIC TYPE.
4. PROVIDE WATER HAMMER (SHOCK) ARRESTORS WHERE REQUIRED BY CODE AND AT ALL QUICK CLOSING FIXTURES.
5. ALL PVC PIPING INSTALLED IN AIR PLENUMS SHALL BE CONTAINED IN A DRYWALL ENCLOSURE OR CODE APPROVED PLENUM WRAP.
6. ALL SLEEVES IN WALLS ADJACENT TO AIR PLENUMS SHALL BE CAULKED WITH THYCOL RUBBER SEAL AND MADE AIR-TIGHT.
7. PROVIDE FROST PROTECTION FOR SEWER AND WATER PIPING AS REQUIRED BY CODE.
8. STORM, SANITARY SEWER AND WATER SERVICE: WHERE SERVICE PASSES FROM AN UNDERGROUND SPACE TO AN UNEXCAVATED OR EXTERIOR SPACE PROVIDE LINK-SEAL, MODEL 'CS' WALL SLEEVE AND SEAL OPENING WITH LINK-SEAL, MODEL 'C'.
9. ISOMETRIC/3D DRAWINGS ARE DIAGRAMMATIC. INSTALLING CONTRACTOR IS REQUIRED TO INSTALL PROPER FITTINGS PER SPECIFICATIONS AND CODE REQUIREMENTS.



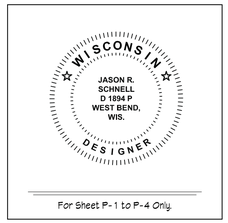
1 BELOW GRADE PLAN - PLUMBING
SCALE 1/8" = 1'-0"



2 LOWER LEVEL PLAN - PLUMBING
SCALE 1/8" = 1'-0"



3 FIRST FLOOR PLAN - PLUMBING
SCALE 1/8" = 1'-0"



For Sheet P-1 to P-4 Only.

PLUMBING SHEET INDEX	
SHEET	DESCRIPTION
P-1	FLOOR PLANS
P-2	ISOMETRICS & DETAILS
P-3	DETAILS
P-4	SCHEDULES

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LGD				JRS

CHECKED JRS

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NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

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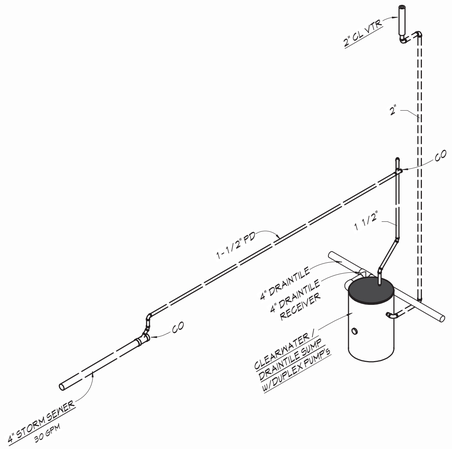
FLOOR PLANS

DRAWING NO.
P-1

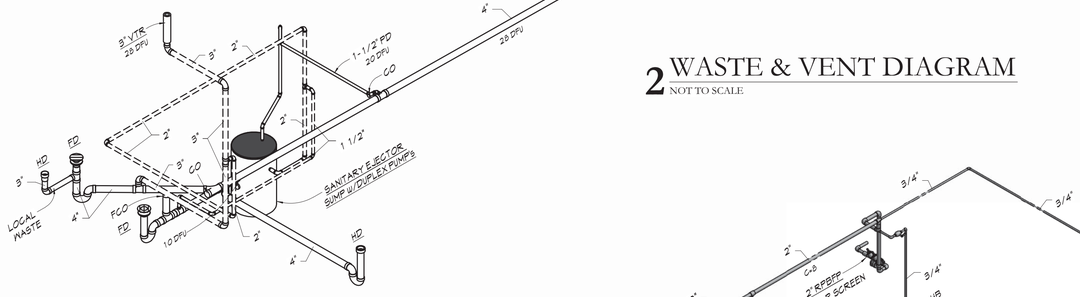
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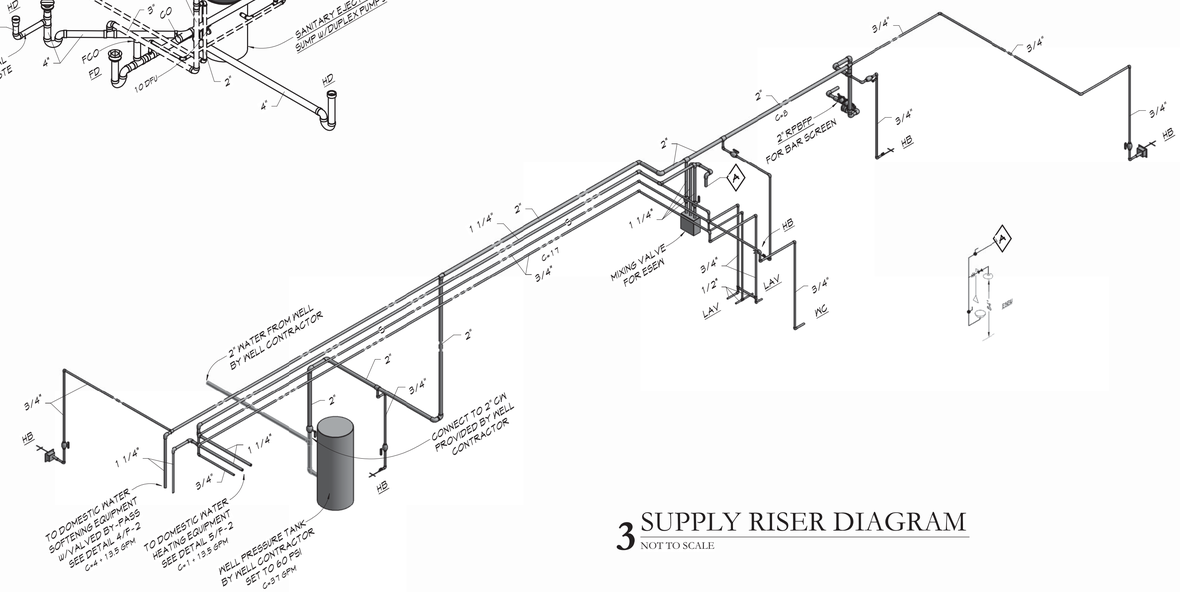
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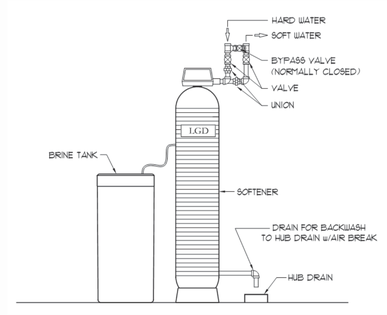
1 CLEARWATER DIAGRAM
NOT TO SCALE



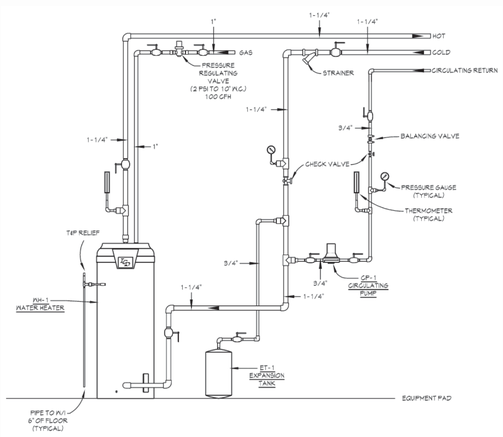
2 WASTE & VENT DIAGRAM
NOT TO SCALE



3 SUPPLY RISER DIAGRAM
NOT TO SCALE



4 WATER SOFTENING EQUIPMENT
NOT TO SCALE



5 WATER HEATING EQUIPMENT
NOT TO SCALE

WATER SUPPLY CALCULATIONS

FIXTURE UNITS:	NEW = 25.00	ESEW = 20 GPM		TOTAL =	37 GPM
MINIMUM WATER PRESSURE AT WELL PRESSURE TANK				=	60 PSI
P.S.I. REQUIRED AT MOST REMOTE FLUSH VALVE OR FIXTURE				=	30 PSI
ELEVATION DIFFERENCE FROM MAIN TO HIGHEST FIXTURE:			16 x 0.434	=	7 PSI
TOTAL DEVELOPED LENGTH FROM MAIN AND MOST REMOTE FIXTURE:			115 x 1.500	=	173 FT
ADDED LOSSES:	WATER METER:	= 0 PSI			
	WATER SOFTENER:	= 15 PSI	60 - (30 + 7 + 15) / 173 X 100	=	4.7
	RPBFP:	= 0 PSI			
	TOTAL LOSS:	= 15 PSI			
AVAILABLE PRESSURE LOSS PER 100' OF PIPING =		5 PSI			

REFER TO PLUMBING SPECIFICATIONS SECTION 22 10 05 FOR APPROVED PIPING MATERIAL.

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ISOMETRICS & DETAILS

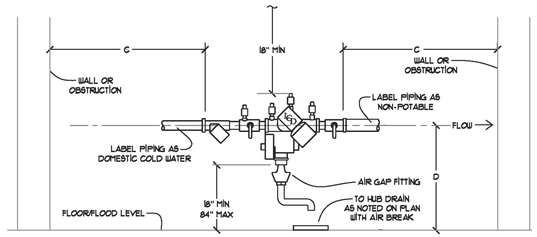
DRAWING NO.
P-2

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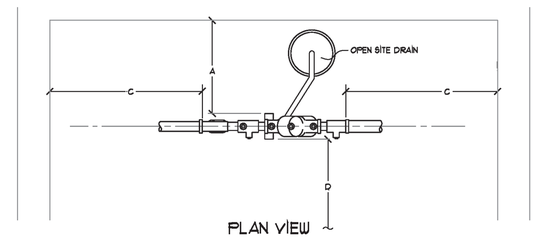
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ELEVATION



PLAN VIEW

MIN. CLEARANCE				
SIZE	A	B	C	D
3/4" - 3"	12"	18"	12"	24"
4" & UP	24"	24"	12"	36"

NOTE: PLACE BOTTOM OF VALVE 18" OR MORE ABOVE FLOOR/FLOOD LEVEL

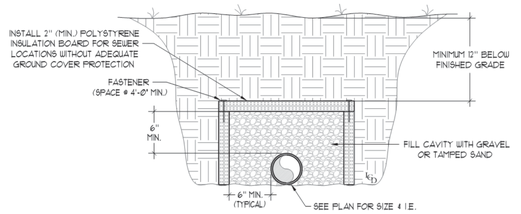
GATE VALVES AND TEST COCKS ARE REQUIRED

TYPICAL ARRANGEMENT FOR INSTALLING REDUCED PRESSURE BACKFLOW PREVENTION DEVICE

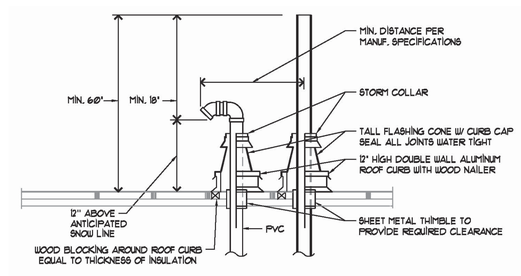
OPEN-SITE DRAIN	
UNIT	MIN. TRAP SIZE
1/2" - 3/4" - 1"	3"
1 1/4" -1 1/2"	4"
2" - 2 1/2"	4"
3"	4"
4"	6"

REFER TO PLAN FOR SIZE INDICTATED

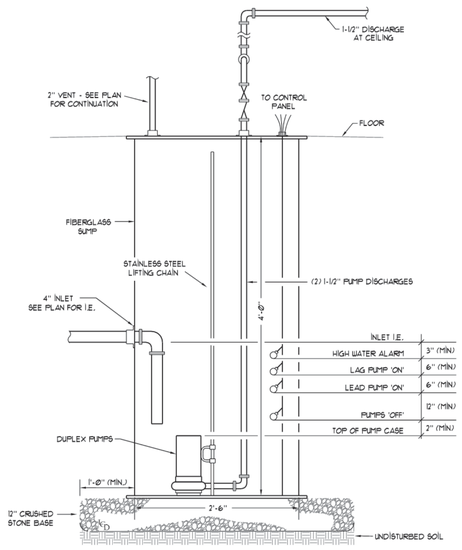
1 REDUCED PRESSURE BACKFLOW PREVENTER
NOT TO SCALE



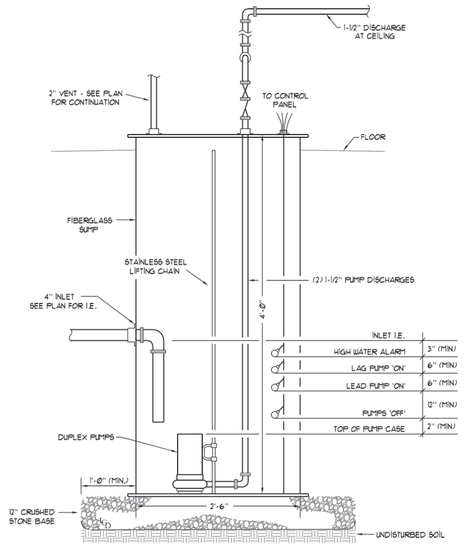
2 SEWER INSULATION
NOT TO SCALE



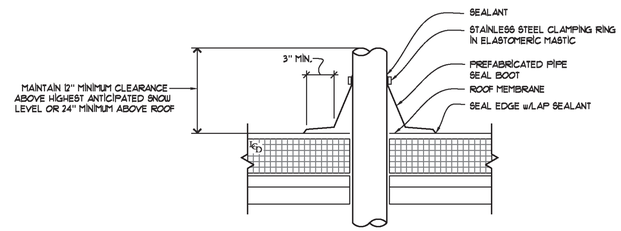
3 WATER HEATER INTAKE & EXHAUST
NOT TO SCALE



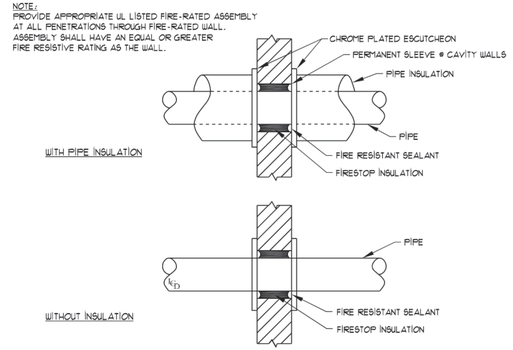
4 SP-2 - SANITARY EJECTOR SUMP
NOT TO SCALE



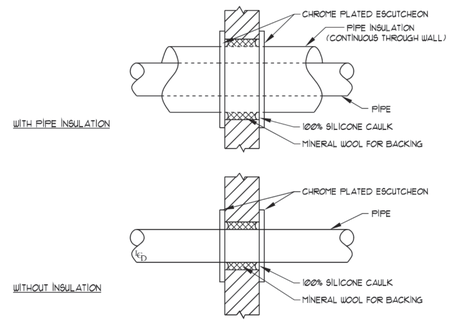
5 SP-1 - CLEARWATER/D.T. SUMP
NOT TO SCALE



6 ROOF PENETRATION DETAIL
NOT TO SCALE



7 WALL PENETRATIONS - FIRE RATED
NOT TO SCALE



8 WALL PENETRATIONS - NON-RATED
NOT TO SCALE

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DETAILS

DRAWING NO.
P-3

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DRAIN SCHEDULE

SYMBOL	DRAIN TYPE/DESCRIPTION	MANUFACTURER	MODEL NO.
DR-1	UNFINISHED AREA FLOOR DRAIN w/ SEDIMENT BUCKET	ZURN	Z-550-AR-Y
DR-2	PIPE 2" ABOVE FINISHED FLOOR w/INCREASER ONE SIZE LARGER THAN PIPE SIZE SHOWN & INLINE TRAP SEALER	RECTORSEAL	SURESEAL
REFER TO PLUMBING SPECIFICATIONS SECTION 22 05 14 FOR ADDITIONAL INFORMATION AND APPROVED EQUALS.			

EXPANSION TANK SCHEDULE

UNIT NO.	DESCRIPTION	LOCATION	MANUFACTURER & MODEL NO.	TANK VOLUME (GALS)	ACCEPT. VOLUME (GALS)	SYSTEM CONN.	FLUID	MAX. OPER. PRESS.	DIMENSIONS DIA.	DIMENSIONS HGT.	REMARKS
ET-1	DOM. HOT WATER SYSTEM	BLOWER ROOM 5	WESSELS 5 TX	2.1	2.1	3/4"	WATER	150 PSIG	7.9"	12.9"	
REFER TO PLUMBING SPECIFICATIONS SECTION 22 30 00 FOR ADDITIONAL INFORMATION AND APPROVED EQUALS LISTING.											

DOMESTIC WATER SOFTENER SCHEDULE

UNIT NO.	SYSTEM SERVED	LOCATION	MANUFACTURER	MODEL NO.	MAX. CAP./LBS OF SALT	FLOW RATE @ 15 PSI PRESSURE DROP	VALVE SIZE	BACKWASH RATE	VOLTS	PHASE	BRINE TANK SIZE	REMARKS
WS-1	DOM. WATER	BLOWER ROOM 5	WATER CONTROL CORP.	BPT-35	29,500/15	14 GPM	2"	3.5 GPM	120	1	14" x 21"	1
REFER TO PLUMBING SPECIFICATIONS SECTION 22 30 00 FOR ADDITIONAL INFORMATION AND APPROVED EQUALS LISTING.												

1: PROVIDE WATER CONTROL CORP IRON FILTER MODEL MB-100.

PUMP SCHEDULE

UNIT NO.	DESCRIPTION	LOCATION	MANUFACTURER	MODEL NO.	GPM	HEAD (FT. W.C.)	H.P.	RPM	VOLTS/ PHASE/ AMPS	BASIN	REMARKS
CP-1	HOT WATER SYSTEM CIRC.	BLOWER ROOM 5	GRUNDFOS	UPS15-35SFC	-	-	1/7	VARIES	115V/1/1.7	-	1
SP-1	CLEARWATER WASTE	UV ROOM 6	ZOELLER	MODEL N98	30	18.5	1/2	1725	115V/1/9.4	30" x 48"	2 (DUPLEX)
SP-2	SEWAGE EJECTOR	UV ROOM 6	ZOELLER	MODEL N152	40	20.1	2/5	3450	115V/1/8.5	30" x 48"	3 (DUPLEX)
REFER TO PLUMBING SPECIFICATIONS SECTION 22 30 00 FOR ADDITIONAL INFORMATION AND APPROVED EQUALS LISTING.											

1: PUMP TO BE ALL STAINLESS STEEL OR BRONZE CONSTRUCTION.
2: FURNISH COMPLETE WITH FLOATS #10-1964, ALARM SENSOR & DUPLEX CONTROL PANEL #10-1041, w/PUMP STAND #10-2421.
2: FURNISH COMPLETE WITH FLOATS #10-1964, ALARM SENSOR & DUPLEX CONTROL PANEL #10-1042.

DOMESTIC WATER HEATER SCHEDULE

UNIT NO.	SYSTEM SERVED	LOCATION	MANUFACTURER	MODEL NO.	GAS INPUT (BTUH)	GPH (@ 100°F Δt)	STOR. (GAL.)	EFF.	GAS CONN. SIZE	INTAKE PIPE SIZE	EXHAUST PIPE SIZE	VOLTS	PHASE	AMPS	kW	REMARKS
WH-1	DOM. WATER	BLOWER ROOM 5	HTP	PH100-119	100,000	117	119	96%	3/4"	2"	2"	120	1	6.2	0.7	
REFER TO PLUMBING SPECIFICATIONS SECTION 22 30 00 FOR ADDITIONAL INFORMATION AND APPROVED EQUALS LISTING.																

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUFACTURER	MODEL NAME/NO.	DESCRIPTION	ACCESSORIES	
WC-1	WATER CLOSET	KOHLER	CIMARRON K-3609-0	FLOOR MOUNT BOTTOM OUTLET WHITE VITREOUS CHINA TANK TYPE WATER CLOSET WITH ELONGATED BOWL, 16-1/2" RIM HEIGHT, 2-1/8" PASSAGEWAY AND 1.28 GPF. INSTALL PER ADA REQUIREMENTS.	TANK:	AQUAPISTON FLUSHING SYSTEM (1.28 GPF)
					SEAT:	BEMIS 7850TDG WHITE SOLID PLASTIC OPEN FRONT WITH COVER
					SUPPLY:	MCGUIRE LF166 ANGLE SUPPLY
L-1	LAVATORY	KOHLER	SOHO K-2054-0	WALL MOUNT WHITE VITREOUS CHINA LAVATORY DRILLED FOR CONCEALED ARM CARRIER WITH 4" CENTER FAUCET OPENINGS. INSTALL PER ADA REQUIREMENTS.	FAUCET:	SLOAN EBF-650 BATTERY POWERED SENSOR OPERATED FAUCET
					DRAIN:	MCGUIRE 155WC OFFSET w/ PERFORATED STRAINER AND 1-1/4" TAILPIECE
					TRAP:	MCGUIRE 8872C 1-1/4" X 1-1/2" 17 GA. CAST BRASS TRAP AND TUBULAR WALL BEND. WITH C.O. PLUG
					SUPPLIES:	MCGUIRE LF2165CC
					CARRIER:	SMITH FLOOR MOUNTED CONCEALED ARM.
					MIXING VALVE:	SYMMONS 7-210-CK (ASSE 1070)
					LAV SHIELD	TRUEBRO LAV SHIELD 2018-KO-S (FOR KOHLER SOHO)
ESEW-1	EMERGENCY SHOWER/EYEWASH	BRADLEY	S19-310FSS	COMBINATION DRENCH SHOWER/EYEWASH UNIT.	MIXING VALVE:	BRADLEY S19-2100-SS-W
HB-1	HOSE BIBB	WOODFORD	B67	FREEZE-PROOF AUTOMATIC DRAINING WALL HYDRANT WITH CONCEALED CHROME-PLATED BRONZE WALL BOX, 3/4" INLET, 3/4" HOSE THREAD ASSE 1052 BACKFLOW PREVENTER OUTLET, COPPER OR BRONZE CASING, LOOSE KEY OPERATOR.		
HB-2	HOSE BIBB	CHICAGO FAUCET	387-CP	INSIDE SILL FITTING W/ 3/4" INLET & 3/4" HOSE THREAD OUTLET.	BFP:	NIDEL 37HD2-CH (ASSE 1052) w/ CHROME FINISH
REFER TO PLUMBING SPECIFICATIONS SECTION 22 40 00 FOR ADDITIONAL INFORMATION AND APPROVED EQUALS LISTING.						

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REVISION

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SCHEDULES

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P-4

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HEATING, VENTILATING, AND AIR CONDITIONING WORK DESIGNED BY:

ALL H.V.A.C. Design - LLC
W556 Wrightstown Rd.
Kaukauna, Wisconsin 54130
Phone: 920-268-6404
email: allhvacdesign@gmail.com

INDEX OF DRAWINGS:

H1.0 GENERAL NOTES / SCHEDULES
H1.1 H. V. A. C. PLANS AND SECTIONS

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE COMPLETE CONTRACTING SERVICES INCLUDING HEATING, VENTILATING, AIR CONDITIONING, AND ASSOCIATED CONTROL WORK.
2. VERIFY LOCATION OF ALL THERMOSTATS.
3. THE MANUFACTURER'S REPRESENTATIVE MUST PROVIDE THE START-UP FOR ALL EQUIPMENT.
4. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL LINE VOLTAGE WIRING (115 VOLT OR HIGHER). THE TEMPERATURE CONTROL CONTRACTOR SHALL FURNISH AND INSTALL ANY/ALL 24 VOLT CONTROL WIRING.
5. ALL NEW CONDUIT REQUIRED ON THIS PROJECT SHALL BE LABELED (EVEN LOW VOLT CONTROL WIRING).
6. ALL MANUAL VOLUME DAMPERS SHALL BE MULTI-BLADE CONTROL DAMPERS (WHERE DUCT SIZES ALLOW). SEAL ALL DAMPER FRAMES AND DUCTWORK.
7.. HEATING CONTRACTOR SHALL MOUNT ALL ELECTRIC HEATING UNITS.
8. ALL STARTERS AND DISCONNECTS FOR HEATING EQUIPMENT SHALL BE FURNISHED BY EITHER UNIT MANUFACTURER OR HEATING CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. ALL 3-PHASE STARTERS SHALL BE MAG. CONTACT OR VFD AS SCHEDULED.
9. COORDINATE ALL ROOF OR WALL OPENINGS WITH GENERAL CONTRACTOR AND ROOFING CONTRACTOR.
10. HVAC CONTRACTOR SHALL INSTALL NEW ROOF CURBS AS SOON AS POSSIBLE AND PROVIDE TEMPORARY CAP TO PREVENT DAMAGE TO BUILDING.
11. SYSTEM HEATING LOADS WERE DETERMINED USING DESIGN DAY CONDITIONS OF -15 DEGREE DB OUTSIDE AIR AND 68 DEGREE DB INTERIOR.
12. ALL GAS PIPING SHALL BE BLACK IRON SCHEDULE 40 WITH GAS-COCK, GAS REGULATOR, AND DIRT LEG AT EACH APPLIANCE. VENT ALL REGULATORS TO OUTSIDE AS NECESSARY.
13. ALL GAS PIPING SHALL BE RUN STRAIGHT AND TRUE AND BE INSTALLED IN A QUALITY WORKMANLIKE FASHION.
14. GAS PIPING SHALL CONFORM TO ALL STATE AND LOCAL CODES, AS WELL AS NATIONAL FUEL GAS CODE RECOMMENDATIONS.
15. ALL GAS PIPING SHALL BE PAINTED WITH (2) COATS OF RUSTOLEUM OSHA YELLOW PAINT AND LABELED 'NATURAL GAS' IN RED LETTERING READABLE FROM FLOOR.
16. ALL GAS PIPING SHALL BE RUN INSIDE THE BUILDING AND PENETRATE ROOF WITHIN THE ROOF CURBS.

GENERAL NOTES:

17. ALL DUCTWORK SHALL BE PRIME FIRST QUALITY ALUMINUM SHEETS. GAUGES OF METAL, SUPPORT SPACING, ETC. SHALL CONFORM TO THE LATEST EDITION OF ASHRAE AND SMACNA CONSTRUCTION STANDARDS FOR ALUMINUM DUCTWORK. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED TO THE 2" PRESSURE CLASSIFICATION TABLE. ALL DUCTWORK SHALL UTILIZE A TDC OR DUCT-MATE CONNECTION SYSTEM.
18. ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES WHETHER OR NOT SPECIFICALLY SHOWN ON THE PLANS.
19. THE ENGINEER IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION OR THE SAFETY OF THE JOB SITE, AND THAT THESE RESPONSIBILITIES ARE INTENDED AND REMAIN SOLELY THOSE OF THE CONTRACTOR.
20. ANY VARIATION FROM THESE PLANS AND/OR SPECIFICATIONS WITHOUT THE EXPRESS WRITTEN CONSENT OF THE HVAC DESIGNER, SHALL RELIEVE THE DESIGNER OF ANY RESPONSIBILITY FOR THE SATISFACTORY OPERATION OF THE ENTIRE HVAC SYSTEM.
21. HVAC CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO (2) SETS OF OPERATIONS AND MAINTENANCE MANUALS FOR THE H.V.A.C. EQUIPMENT PROVIDED, WITH MINIMUM (1) COPY REMAINING ON-SITE IN THE ELECTRICAL ROOM.
22. THE HVAC CONTRACTOR OR RECOGNIZED BALANCING CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE ENTIRE H.V.A.C. SYSTEM SO THAT THE SUPPLY AIR, EXHAUST AIR, AND MAKE-UP AIR QUANTITIES ARE WITHIN +/- 10% OF THE AIR QUANTITIES SHOWN ON THE PLAN. THE HVAC CONTRACTOR SHALL INCLUDE A COPY OF THE FINAL TESTING AND REPORT AS A PART OF EACH OPERATIONS AND MAINTENANCE (O&M) MANUALS. THEY SHALL ALSO EMAIL AN ELECTRONIC COPY TO THE H.V.A.C. DESIGNER FOR REVIEW AND COMMENT. THE AIR SYSTEMS SHALL BE BALANCED IN SUCH A MANNER AS TO MINIMIZE LOSSES FROM DAMPER THROTTLING BY ADJUSTING FAN SPEED, AND ADJUSTING DAMPERS TO MEET AIR FLOW CONDITIONS. BALANCING PROCEDURES SHALL BE ACCEPTABLE TO THE DEPARTMENT OF PROFESSIONAL SERVICES (WISCONSIN).
23. H.V.A.C. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY VOLUME, CONTROL, AND BACKDRAFT DAMPERS REQUIRED FOR INSTALLATION AND BALANCING.
24. ALTERNATE 'EQUAL' MANUFACTURERS WILL BE CONSIDERED FOR ALL EQUIPMENT AS SCHEDULED IF ALL CAPACITIES, AIR FLOWS, PRESSURE DROPS, EFFICIENCIES, WARRANTIES, AND OVERALL EQUIPMENT QUALITY OF CONSTRUCTION CAN BE DEMONSTRATED. IF ALTERNATE MANUFACTURERS ARE BEING PROPOSED PLEASE LIST WHAT IS BEING OFFERED AS AN ALTERNATE AS WELL AS THE DEDUCT TO THE OWNER IF ACCEPTING THE ALTERNATE.
25. EQUIPMENT SHALL BE ENCLOSED, SUSPENDED, OR GUARDED AS SHOWN ON THE PLANS. EQUIPMENT LOCATIONS SHALL COMPLY WITH ANY/ALL MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, AS WELL AS ALL STATE AND LOCAL CODES, WHETHER OR NOT INDICATED ON THE PLANS.
26. ALL CLEARANCES AROUND EQUIPMENT SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND STATE AND LOCAL CODES, WHETHER OR NOT INDICATED ON THE PLANS. CLEARANCES SHALL ALLOW FOR EASE OF MAINTENANCE AND ACCESS FOR ALL EQUIPMENT AS INSTALLED.
27. THERMOSTATS AND ROOM CONDITIONING DEVICES SHALL BE MOUNTED A MAXIMUM OF 4' ABOVE THE FLOOR IN ORDER TO COMPLY WITH "AMERICANS WITH DISABILITIES ACT."

28. NOTE TO INSTALLING H.C.: 12-17-24

IFGC 401/SPS 365.0400 - All gas piping and gas piping installations shall comply with NFPA 54, National Fuel Gas Code.

29. NOTE TO INSTALLING H.C.: 12-17-24

IMC 401.5 - Provide corrosion-resistant devices, such as louvers, screens, or grilles, for outside air intake openings which meet the minimum and maximum size requirements of Table IMC 401.5. Any/all intake louvers, grilles, block vents, or hoods shall be complete with a corrosion-resistant baked enamel finish and a 1/2"x1/2" bird screen.

GAS FIRED MAKE-UP AIR UNIT SCHEDULE

UNIT NO.	ARRANGEMENT	BURNER	SUPPLY CFM	TOTAL S.P.	SUPPLY FAN DIA.	MBH	INLET GAS PRESSURE (INCHES W.C.)	GAS TYPE	DESIGN DAY DELTA T	MOTOR H.P.	MOTOR VOLT	MOTOR PH.	MANUFACTURER	MODEL NO.
1	ROOFTOP	DIRECT FIRED	2300	1.00"	10"	250	8-14	NAT GAS	100	1-1/2	480	3	ABSOLUTAIRE	V2

NOTE: UNIT SHALL BE SHIPPED WITH MAG CONTACT STARTER AND FUSED DISCONNECT. TURN OVER TO E.C. FOR INSTALLATION
NOTE: MOUNT UNIT CONTROLLER ON WALL BELOW UNIT IN ELECTRICAL ROOM. BURNER CONTROL VIA TSTAT LOCATED IN CHEMICAL ROOM. SET TO 65°F.
NOTE: UNIT SHALL BE SET UP TO RUN CONTINUOUSLY.

ELECTRIC/HYDRONIC BASEBOARD SCHEDULE

UNIT NO.	LENGTH	WATTS	WATTS/FT.	CABINET SIZE H	CABINET SIZE D	VOLTS	PH.	MANUFACTURER	MODEL
1	28"	500	250	8-3/8"	2-15/16"	120	1	QMARK	HBB500

SIDEWALL EXHAUST FAN SCHEDULE

UNIT NO.	SERVICE	CFM	T.S.P.	FAN TYPE	FAN DIA. INCH	FAN RPM	DRIVE	MOTOR H.P.	MOTOR VOLTS	MOTOR PH.	MOTOR SPEED	DISCONNECT	DPR. TYPE	DPR. SIZE	WALL OPENING	WALL MOUNT	MANUFACTURER	MODEL
SEF-1	BAR SCREEN	600	0.35	BI	9	1550	DIRECT	1/10	120	1	ONE	EXPLOSION / WEATHER PROOF	B.D.	10x10	15x15	YES	GREENHECK	CUE-090
SEF-2	CHEMICAL	800	0.50	BI	9.5	1725	DIRECT	1/6	120	1	ONE	WEATHER PROOF	B.D.	10x10	15x15	YES	GREENHECK	CUE-095
SEF-3	BLOWER RM	6000	0.35	BI	20	1210	DIRECT	3	480	3	VFD	WEATHER PROOF	B.D.	24x24	26x26	YES	GREENHECK	CUE-200

NOTES: 1. CONTROL FANS NO. 1 AND NO. 2 VIA BREAKER PANEL. CONTROL FAN NO. 3 THRU ITS VFD. FANS SHALL RUN CONTINUOUSLY.
2. H.C. SHALL FURNISH REQUIRED MOTOR STARTERS AND DISCONNECTS AND TURN OVER TO E.C. FOR INSTALLATION.
3. ALL FANS SHALL BE COATED TO PROTECT AGAINST CORROSIVES.
4. FAN NO. 1 SHALL BE EXPLOSION / SPARK PROOF AND RATED FOR USE IN A CLASS I DIV I ENVIRONMENT.

INLINE FAN SCHEDULE

UNIT NO.	SERVICE	CFM	S.P. IN H2O	RPM	MOTOR HP	MOTOR VOLTS	MOTOR PH.	MOTOR SPEED	B.D. DPR.	INLET GRILLE	DISCONNECT	MANUFACTURER	MODEL
IF-1	UV ROOM	400	0.40	1550	1/10	120	1	ONE	NO	NO	YES	GREENHECK	SQ-90

NOTES: 1. CONTROL FAN VIA BREAKER PANEL. FAN SHALL RUN CONTINUOUSLY.
2. H.C. SHALL FURNISH REQUIRED MOTOR STARTERS AND DISCONNECTS AND TURN OVER TO E.C. FOR INSTALLATION.
3. FAN SHALL BE COATED TO PROTECT AGAINST CORROSIVES.

HVAC ALTERNATE NO. 1

DUCTLESS MINI-SPLIT SYSTEM SCHEDULE

OUTDOOR UNIT

UNIT TAG	SERVICE	CLNG MBH	HTG MBH	SEER	IEER	COP	SCHE	VOLT	PH	SCCR	MCA	RECOMMENDED BREAKER SIZE	MOCP	MODEL NO.
1	OFFICE	24	N/A	21.4	-	N/A	N/A	208	1	5	19	25	26	TRUYA024 I HA7ONA

INDOOR UNITS

UNIT NO.	SERVICE	ARRANGEMENT	CLNG MBH	HTG MBH	CFM	MCA	VOLT	PH	SPEEDS	LIQUID - SUCTION	MODEL NO.
1	OFFICE	WALL MOUNTED	24	N/A	700	1	208	1	3	3/8 - 5/8	TPKA0A024 I KA70A

NOTE: COST MUST INCLUDE PRICE TO RUN CONDENSATE TO HUB DRAIN AND REFRIGERANT PIPING TO AND FROM THE UNIT.
NOTE: MFR. TO FURNISH HARD WIRED REMOTE CONTROL DEVICE. MOUNT DEVICE ON WALL IN ROOM AS SHOWN ON FLOOR PLAN.
NOTE: POWER/CONTROL WIRING BETWEEN OUTDOOR UNIT AND INDOOR UNIT BY E.C.
NOTE: UNIT SHALL BE CAPABLE OF LOW AMBIENT OPERATION AND COMPLETE WITH WIND BAFFLE.

WISCONSIN JOSEPH J. FEHIG E-17742 H APPLETON, WIS. DESIGNER

12-17-2024

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NO.	DATE	DRAWN BY JJF	CHECKED KBS	APPROVED KBS
				REVISION

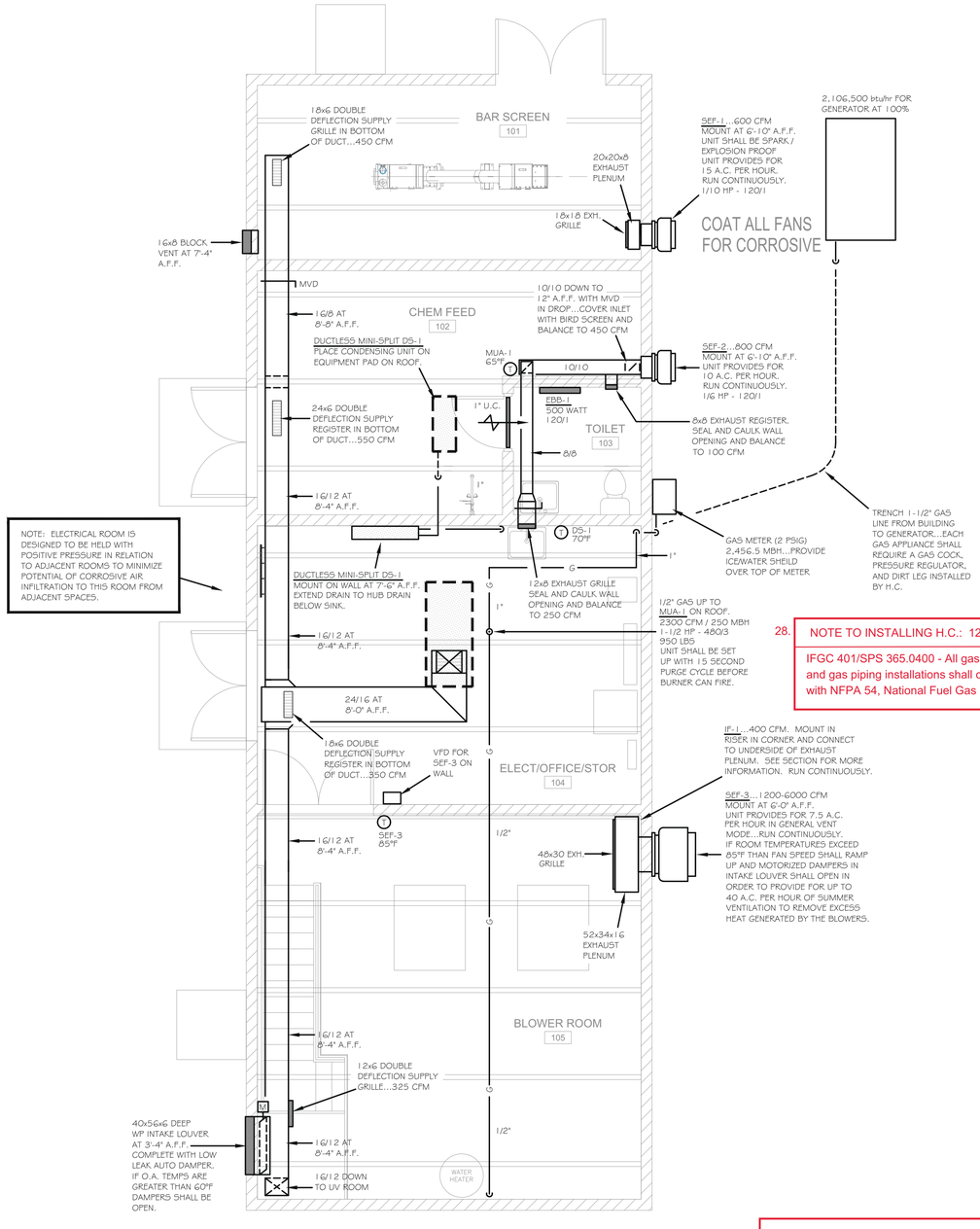
LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE	DATE
NONE	10/16/2024

PROJECT NUMBER
1-0049-029

H.V.A.C.
NOTES AND
SCHEDULES

DRAWING NO.
H1.0



N

1 H1.1 FIRST FLOOR PLAN

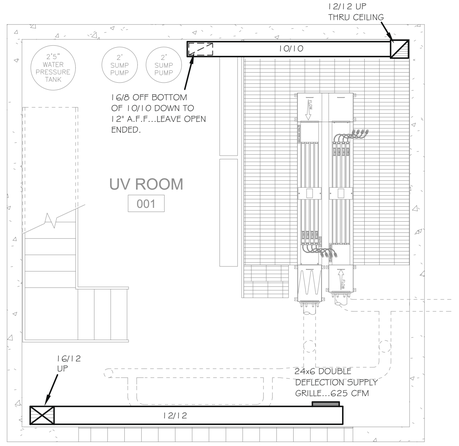
SCALE: 1/4" = 1'-0"

28. NOTE TO INSTALLING H.C.: 12-17-24

IFGC 401/SPS 365.0400 - All gas piping and gas piping installations shall comply with NFPA 54, National Fuel Gas Code.

29. NOTE TO INSTALLING H.C.:12-17-24

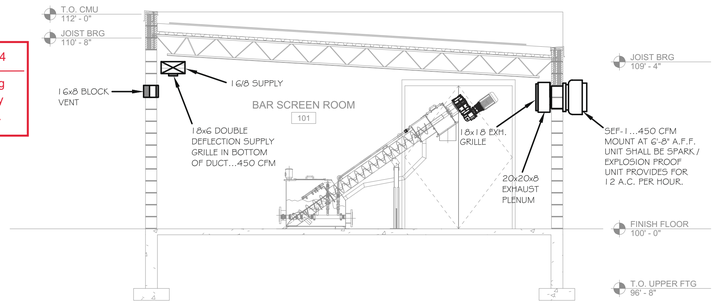
IMC 401.5 - Provide corrosion-resistant devices, such as louvers, screens, or grilles, for outside air intake openings which meet the minimum and maximum size requirements of Table IMC 401.5. Any/all intake louvers, grilles, block vents, or hoods shall be complete with a corrosion-resistant baked enamel finish and a 1/2"x1/2" bird screen.



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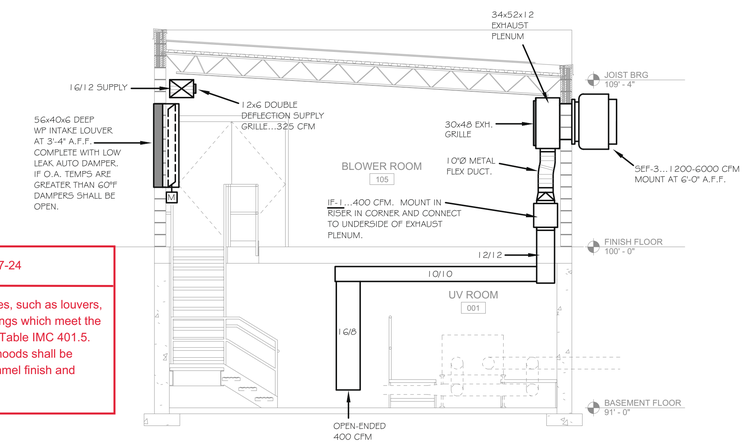
2 H1.1 BASEMENT PLAN

SCALE: 1/4" = 1'-0"



3 H1.1 SECTION THRU BAR SCREEN ROOM

SCALE: 1/4" = 1'-0"



4 H1.1 SECTION THRU BLOWER ROOM

SCALE: 1/4" = 1'-0"

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JJF	KBS	KBS

NO.	DATE	REVISION

LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE	DATE
1/4"=1'-0"	10/16/2024

PROJECT NUMBER
1-0049-029

H.V.A.C. FLOOR PLANS AND SECTIONS

DRAWING NO.
H1.1

LIGHT FIXTURE SCHEDULE - LARSON WINCHESTER SANITARY DISTRICT

FIXTURE TYPE	FIXTURE DESCRIPTION	LIGHT FIXTURE MANUFACTURER	LIGHT FIXTURE CATALOG NUMBER	FIXTURE LAMPING VOLTAGE	DRIVER	LAMP TYPE	DELIVERED LUMENS	LAMP QTY.	SYSTEM WATTS	NOTES
V1	4' LED VAPOR TIGHT LIGHT HARSH ENVIROMENT - CORROSIVE RESISTANT	LITHONIA	FEM-L48-6000LM-LPPCL-WD-MVOLT-5000K-80CR-STSL	MVOLT	LED	LED	6000	1	38	1,3
		BASIS OF DESIGN	BASES OF DESIGN - EQUAL ACCEPTABLE							
W1	EXTERIOR WALL PACK	LITHONIA	DSXW1-20C-700MA-5000K-T3M-PE-BSW-DDBXD	MVOLT	LED	LED	5500		46	1
		BASIS OF DESIGN	BASES OF DESIGN - EQUAL ACCEPTABLE							
W2	EXTERIOR FLOOD LIGHT	LITHONIA	TFX2	MVOLT	LED	LED	13200		94	1
		BASIS OF DESIGN	BASES OF DESIGN - EQUAL ACCEPTABLE							
XP1	SURFACE PENDANT CLASS I / DIV1	LITHONIA	LE551-L4-V1-4-WG	MVOLT	LED	LED	8000		64	1,2
		BASIS OF DESIGN	BASES OF DESIGN - EQUAL ACCEPTABLE							

NOTES:

1. PROVIDE ALL MOUNTING ACCESSORIES TO COMPLETE INSTALLATION
2. CLASS 1 / DIV 1 FIXTURE - PROVIDE ADDITIONAL SEAL OFF AT EACH FIXTURE.
3. FIXTURE / COMPONANTS / MOUNTING HARDWARE TO BE CORROSIVE RESISTANT.

GENERAL NOTES:

A. ALL NON IC RATED FIXTURES INSTALLED IN AN IC APPLICATION SHALL HAVE THE SURROUNDING AREA BOXED OUT SUCH THAT INSULATION DOES NOT COME IN CONTACT WITH THE FIXTURE. FURTHERMORE, BOXING OUT OF THE FIXTURES DOES NOT REMOVE OR COMPROMISE THE REQUIREMENT TO MAINTAIN THE BUILDING INSULATION SYSTEM AS CALLED OUT IN OTHER AREAS OF THE CONTRACT DOCUMENTS.

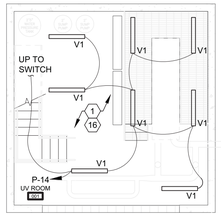
B. WHERE RECESSED FIXTURES PENETRATE THE BUILDING ENVELOPE BETWEEN CONDITIONED AND NON CONDITIONED SPACES, THE PENETRATION SHALL BE PROPERLY SEALED TO ELIMINATE AIR MOVEMENT FROM A CONDITIONED SPACE TO A NON CONDITIONED SPACE.

GENERAL NOTES

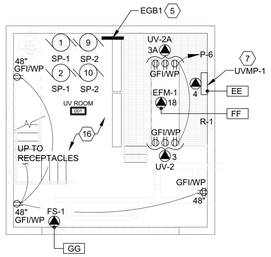
1. REFERENCE ARCHITECTURAL SHEETS FOR APPLICABLE INTERIOR ELEVATIONS, SECTIONS, AND MISC. BUILDING INFORMATION REQUIRED TO COMPLETE THE ELECTRICAL INSTALLATIONS.
2. ALL DEVICES AND RACEWAY TO BE SURFACE MOUNTED AT THE INTERIOR SPACES.
3. COORDINATE LOCATION OF ALL NIGHTLIGHTS WITH OWNER PRIOR TO ROUGH-IN. ROUTE ALL NIGHT LIGHTS AHEAD OF SWITCHING.
4. DETERMINE FINAL ROUTING OF BRANCH CIRCUITING AND FEEDERS, UPSIZE TO MEET MIN. VOLTAGE DROP STANDARDS / REQUIREMENTS.
5. REVIEW THE ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING AND FIRE PROTECTION SHEETS FOR FURTHER WORK AND FOR ADDITIONAL DETAIL, SUCH AS MOUNTING HEIGHTS AND DIMENSIONS.
6. REVIEW FURNITURE LAYOUTS, PROVIDED BY THE OWNER. DO NOT ROUGH IN ANY ELECTRICAL EQUIPMENT WITHOUT FIRST COORDINATING WITH THE LATEST SET OF FURNITURE PLANS, AS PROVIDED BY THE OWNER.
7. PROVIDE FIRE STOPPING / SEALING DETAILS FOR ALL RATED WALLS.
8. PROVIDE ARCFLASH PROTECTION EQUIPMENT IN AREAS WHERE CODE REQUIRES ARC FLASH PROTECTION.
9. PROVIDE WEATHER PROTECTIVE, GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE ADJACENT TO ALL ROOF TOP EQUIPMENT AND ANY EXTERIOR EQUIPMENT/DEVICES.
10. ALL RECEPTACLES INSTALLED BELOW 66" ABOVE THE FLOOR AND IN ALL SPACES ACCESSIBLE TO THE PUBLIC SHALL BE TAMPER RESISTANT TYPE. THIS INCLUDES, BUT IS NOT LIMITED TO: EXTERIOR DEVICES, STAIRWELLS, CORRIDORS, RESTROOMS, STORAGE ROOMS, OPEN AREAS, OFFICES ACCESSIBLE TO OPEN AREAS, ETC.
11. PROVIDE POWER TO MISC. PLUMBING AND HVAC CONTROL PANELS AS REQUIRED BY THE PLUMBING AND HVAC SCOPE OF WORK. REFERENCE PLUMBING AND HVAC PLANS.
12. PROVIDE BUILDING STUDIES AND ARCFLASH CALCULATIONS FOR THE ELECTRICAL SYSTEM, INCLUDING PANELS, EQUIPMENT, AND MOTORS ASSOCIATED WITH THE PANELS. INCLUDE THE COSTS OF THIS SERVICE AND LABEL INSTALLATION IN THE BID. STUDIES TO BE COMPLETED PRIOR TO SHOP DRAWING SUBMITTAL AND APPROVAL.
13. DETERMINE FINAL ROUTING OF BRANCH CIRCUITING AND FEEDERS, UPSIZE TO MEET MIN. VOLTAGE DROP STANDARDS / REQUIREMENTS.
14. PROVIDE CODE COMPLIANT WIRING IN HAZARDOUS / CLASSIFIED SPACES.
15. PROVIDE CORROSIVE RESISTANT MATERIALS / EQUIPMENT / WIRING IN HARSH ENVIRONMENT SPACES AND PER THE NEC.

PLAN NOTES - SHEET E1.1

1. ADJUST LIGHT FIXTURE LOCATIONS PER FINAL DUCTWORK / PIPING / EQUIPMENT LAYOUT / AND STRUCTURAL FRAMING.
2. ALTERNATE NO.1: ALL WORK ASSOCIATED WITH DUCTLESS SPLIT SYSTEM AND INDOOR FAN - MOTOR #18.
3. FINAL SWITCH LOCATION TO BE DETERMINED BY THE OWNER. LABEL SWITCH FOR ITS USE.
4. FINAL LOCATION DIRECTED BY THE OWNER - VERIFY PRIOR TO ROUGH-IN.
5. GROUNDING BAR - SEE DETAIL 1/E2.2 AND 2/E2.2.
6. SEE ENLARGED ROOM PLAN THIS SHEET - SEE 5/E1.1.
7. LOCATION TO BE VERIFIED / COORDINATED WITH THE MANUFACTURER / SUPPLIER / CONTRACTOR.
8. SEE CIVIL SITE PLAN FOR MIXER LOCATION. LOCATED IN WITHIN LAGOON. LOCATION SHOWN ON THIS PLAN IS NOT THE FINAL LOCATION.
9. MIXER DISCONNECT TO BE LOCATED AT SHORE OF LAGOON, PROVIDE A UNISTRUT OR POST MOUNT. FINAL LOCATION TO BE DIRECTED BY THE OWNER.
10. ALL MATERIAL / DEVICES / FIXTURES / INSTALLATION TO BE CORROSIVE RESISTANT TYPE FOR CHEMICALS USED. HARSH ENVIRONMENT ROOM. UTILIZE PVC COATED RIGID GALVANIZED STEEL CONDUIT, BOXES AND FITTINGS IN THIS ROOM. VERIFY CHEMICAL TYPES AND PROVIDE APPROPRIATE MATERIALS.
11. ROUTE SPARE / EMPTY 3" CONDUIT FROM INSIDE BUILDING TO NEAR UTILITY TRANSFORMER LOCATION FOR FUTURE LOW VOLTAGE SYSTEMS REQUIREMENTS. STUB / BUSH / LABEL BOOTH ENDS AND PROVIDE WITH PULL STRING AND WARNING TAPE.
12. ROUTE SPARE / EMPTY 1 1/4" CONDUIT FROM INSIDE BUILDING TO NORTH SIDE OF SERVICE ROADWAY FOR FUTURE EXTERIOR LIGHT POLES. STUB / BUSH / LABEL BOOTH ENDS AND PROVIDE WITH PULL STRING AND WARNING TAPE.
13. MANUALLY CONTROLLED FLOOD LIGHTS. OWNER TO SELECT FINAL LOCATION ALONG WALL.
14. ROOM 101 - CLASS I / DIV. 1 HAZARDOUS ROOM. PROVIDE AND INSTALL ALL CODE COMPLIANT / HAZARDOUS WIRING AND MATERIAL INCLUDING SIDE WALL EXHAUST FAN SEF-1.
15. MOUNT ON STAINLESS STEEL UNISTRUT.
16. UTILIZE RIGID GALVANIZED STEEL CONDUIT IN UV ROOM 105.
17. PROVIDE AND INSTALL (1) EMPTY 2" CONDUIT STUBBED FROM PANELBOARD BELOW SLAB TO EXTERIOR OF THE BUILDING AND STUB ABOVE GRADE 24" AND CAP / SEAL.



1 E1.1 ELECTRICAL - BASEMENT LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



4 E1.1 ELECTRICAL - BASEMENT LEVEL POWER PLAN
SCALE: 1/8" = 1'-0"

SEE 1 E2.1 — UTILITY TRANSFORMER — NORTH SIDE OF SERVICE ROAD. COORDINATE LOCATION WITH LOCAL POWER UTILITY.
SEE CIVIL PLANS FOR SITE / DISTANACES

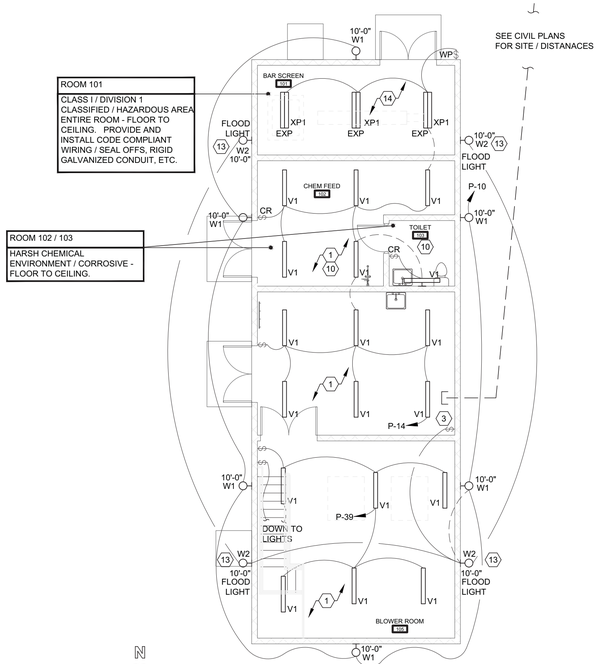
SEE CIVIL PLANS FOR SITE / DISTANACES

CONTROLS WIRING SCHEDULE

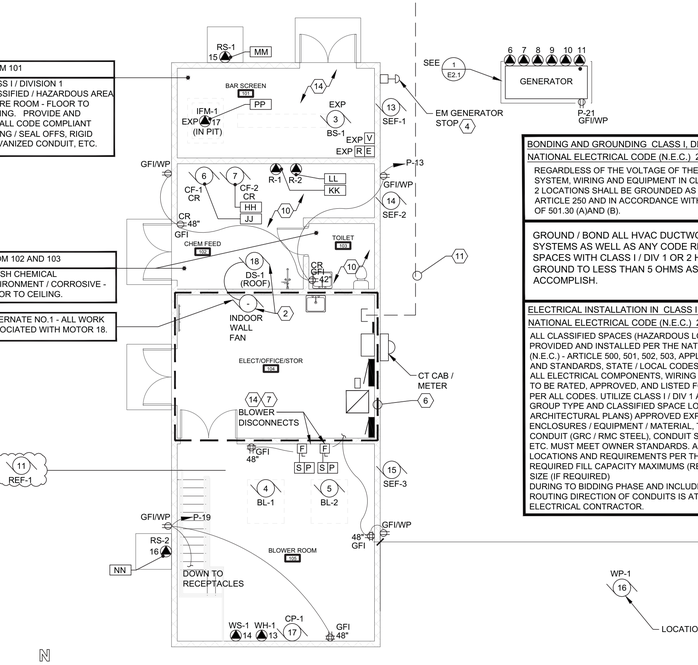
MARK / TAG	DESCRIPTION	CABLE IN CONDUIT	ROUTE CABLE FROM AND TO	NOTES
AA	VFD - BLOWER #1	6 #14"S AND 1 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO VFD	1,2
BB	VFD - BLOWER #2	6 #14"S AND 1 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO VFD	1,2
CC	BSC-1	1 CAT 5 CABLE	FROM MCP-1 TO BSC-1	1,2
DD	PANEL MDP (MAIN ELECTRICAL PANEL)	MIX 1 STATUS - 2 #14'S	FROM PANEL MDP TO MCP-1	1,2
EE	UVMP-1 - MONITORING PANEL POWER SUPPLY	2 #14'S	FROM MCP-1 TO UVMP-1	1,2
FF	EFM-1 - EFFLUENT FLOW MEETER	2 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO EFM-1	1,2
GG	FS-1 - FLOOD SWITCH	2 #14'S	FROM MCP-1 TO FS-1	1,2,3
HH	CF-1 - CHEMICAL FEED PUMP	1 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO CF-1	1,2,4
JJ	CF-2 - CHEMICAL FEED PUMP	1 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO CF-2	1,2,4
KK	R-1 - RADAR LEVEL SENSOR (FOR FEED TANKS)	1 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO R-1	1,2,4
LL	R-2 - RADAR LEVEL SENSOR (FOR FEED TANKS)	1 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO R-1	1,2,4
MM	RS-1 REFRIGERATOR SAMPLER	1 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO RS-1	1,2,6
NN	RS-2 REFRIGERATOR SAMPLER	1 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO RS-1	1,2,6
PP	IFM-1 - INFLUENT FLOW MEETER	2 SIGNAL CABLE (belden) 2 #18 W/ SHEILD	FROM MCP-1 TO IFM-1	1,2,5

GENERAL NOTES:

1. ALL QUESTIONS TO BE DIRECTED TO MARK HOFF OF PJ KORTENS AND COMPANY. Direct 920-358-2920, Mobile 920-810-1868 - EMAIL: mark.hoff@pjkco.com
2. ALL LOW VOLTAGE CABLE / SIGNAL CABLE TO BE INSTALLED IN CONDUIT BODY. CONDUIT TYPE TO MATCH LINE VOLTAGE CONDUIT TYPE IN AREA.
3. MOUNT 1'-0" ABOVE FINISHED FLOOR
4. WIRING LOCATED IN CORROSIVE ENVIROMENT / ROOM. PROIDE CORROSIVE RESISTANT INSTALLATION.
5. WIRING LOCATED IN CLASS 1 / DIV 1 ENVIROMENT / ROOM. PROVIDE REQUIRED CLASS 1 / DIV INSTALLATION.
6. WIRING LOCATED AT THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF INSTALLATION.



2 E1.1 ELECTRICAL - FIRST LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



3 E1.1 ELECTRICAL - FIRST LEVEL POWER PLAN
SCALE: 1/8" = 1'-0"

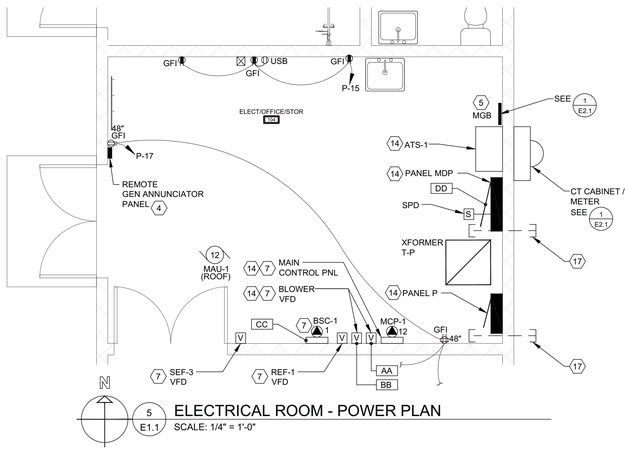
BONDING AND GROUNDING CLASS I, DIVISION 1 AND 2 AREAS:
NATIONAL ELECTRICAL CODE (N.E.C.) 2017

REGARDLESS OF THE VOLTAGE OF THE ELECTRICAL SYSTEM, WIRING AND EQUIPMENT IN CLASS I, DIVISION 1 AND 2 LOCATIONS SHALL BE GROUNDED AS SPECIFIED IN ARTICLE 250 AND IN ACCORDANCE WITH THE REQUIREMENTS OF 501.30 (A)AND (B).

GROUND / BOND ALL HVAC DUCTWORK AND PIPING SYSTEMS AS WELL AS ANY CODE REQUIRED ITEM IN ALL SPACES WITH CLASS I / DIV 1 OR 2 HAZARDOUS SPACES. GROUND TO LESS THAN 5 OHMS AS REQUIRED TO ACCOMPLISH.

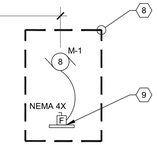
ELECTRICAL INSTALLATION IN CLASS I, DIVISION 1 AND 2 AREAS:
NATIONAL ELECTRICAL CODE (N.E.C.) 2017

ALL CLASSIFIED SPACES (HAZARDOUS LOCATION) SHALL BE PROVIDED AND INSTALLED PER THE NATIONAL ELECTRICAL CODE (N.E.C.) - ARTICLE 500, 501, 502, 503, APPLICABLE NFPA SECTIONS AND STANDARDS, STATE / LOCAL CODES AND OWNER STANDARDS. ALL ELECTRICAL COMPONENTS, WIRING METHODS, AND MATERIALS TO BE RATED, APPROVED, AND LISTED FOR THE CLASSIFIED SPACE PER ALL CODES. UTILIZE CLASS I / DIV 1 AND 2 - GROUP (VERIFY GROUP TYPE AND CLASSIFIED SPACE LOCATIONS (SEE ARCHITECTURAL PLANS) APPROVED EXPLOSION PROOF BOXES / ENCLOSURES / EQUIPMENT / MATERIAL, THREADED RIGID METAL CONDUIT (GRC / RMC STEEL), CONDUIT SEALS, SEAL COMPOUND, ETC. MUST MEET OWNER STANDARDS. ALL CONDUIT SEAL LOCATIONS AND REQUIREMENTS PER THE N.E.C. INCLUDING CODE REQUIRED FILL CAPACITY MAXIMUMS (RESIZED SPECIFIED CONDUIT SIZE (IF REQUIRED)
DURING TO BIDDING PHASE AND INCLUDE COSTS WITHIN BID PRICE. ROUTING DIRECTION OF CONDUITS IS AT THE DISCRETION OF ELECTRICAL CONTRACTOR.



5 E1.1 ELECTRICAL ROOM - POWER PLAN
SCALE: 1/4" = 1'-0"

VERIFY DISTANCE AND POWER ROUTING - SEE CIVIL PLANS



ELECTRICAL SHEET INDEX	24-010
E1.1	ELECTRICAL - BASEMENT / FIRST LEVEL LIGHTING AND POWER PLANS / LIGHT FIXTURE SCHEDULE
E2.1	ELECTRICAL - ONE-LINE POWER DISTRIBUTION DIAGRAM AND SCHEDULES
E2.2	ELECTRICAL - DETAILS AND SYMBOLS LIST

Martenson & Eisele, Inc.
1377 Midway Road
Menasha, WI 54952
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920.731.0381 1.800.236.0381
Planning
Environmental
Surveying
Engineering
Architecture

DRAWN BY INITIALS	DATE	NO.	REVISION	CHECKED INITIALS	APPROVED INITIALS

LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE	DATE
VARIES	10-16-24

PROJECT NUMBER
1-0049-029

LIGHTING AND POWER PLAN

DRAWING NO.
E1.1

PANEL: MDP — TUB 1 OF 1

Voltage: 277/480 | Type: I-LINE
Phase: 3 | Manufacturer: SQUARE D
Wire: 4 | Model: VERIFY
Amperage: 400 | Bus and Lug Material: COPPER
Main lug/breaker: MLO | Feeder: FROM ATS-1
No. of tubs: 1 | Project: LARSON - WINCHESTER SAN. DISTRICT
Circuits per tub: Min 63" BREAKER MOUNTING SPACE | AIC: 65K - FULL RATED - VERIFY AVAILABLE FAULT CURENT WITH LOCAL UTILITY

C= COOLING, E= ELEVATOR, F= FUTURE (SPARE), H= HEATING, L= LIGHTING, M= MOTOR, P= PUMPS, R= RECEPTACLE, U= UNASSIGNED, W= WATER HEATING

DESCRIPTION	TYPE	CB	WATTS A	WATTS B	WATTS C	CKT	CKT	WATTS A	WATTS B	WATTS C	DESCRIPTION	TYPE	CB
			14073			1	2	971				M	
TRANSFORMER T-P		100/3		11040		3	4		971		BS-1 - BAR SCREEN	M	20/3
					11389	5	6			971		M	
	M		832			7	8	11787				M	
MAU-1	M	20/3		832		9	10		11787		BL-1 - BLOWER	M	70/3
	M				832	11	12			11787		M	
	F		0			13	14	0				M	
SPARE	F	15/3		0		15	16		0		BL-2 - BLOWER	M	70/3
	F				0	17	18			0		M	
	M		1314			19	20	1390				M	
SEF-3	M	15/3		1314		21	22		1390		M-1 - MIXER	M	15/3
	M				1314	23	24			1390		M	
	F					25	26	0				F	
SPARE	F	20/3				27	28		0		SPARE	F	15/3
	F					29	30			0		F	
	F					31	32	0				F	
SPARE	F	20/3				33	34		0		FUTURE ADDITION / LOAD	F	SPACE
	F					35	36			0		F	
	F					37	38						
SPARE	F	30/3				39	40				TVSS - SPD		60/3
	F					41	42						
			16219	13186	13535			14148	14148	14148			

WATTAGE TOTALS:
Total A: 30367
Total B: 27334
Total C: 27683

Diversified Watts: 85384
FLA (480V): 102.70
MCA (480V): 128.37

Total Watts: 85384
Panel Load Factor (%): 100
Load Diversification (VA): 0

MOTOR SCHEDULE

NO.	DESCRIPTION	LOCATION	HP	MCA	MAX. FUSE	FLA	VOLTAGE	CIRCUIT	OVERCURRENT	STARTER TYPE	STARTER PROVIDE	STARTER INSTALL	STARTER WIRE	DISCONNECT (AT UNIT) TYPE	DISC. PROVIDE	DISC. INSTALL	DISC. WIRE	FEEDER QTY	FEEDER PHASE	FEEDER GND	CONDUIT SIZE	NOTES
1	SP-1 - SUMP PUMP NO.1	UV 001	4/10				120/1	P-1	20/1					MAN	DIV 26	DIV 26	DIV 26	3	12	12	3/4"C	3,12
2	SP-1 - SUMP PUMP NO.2	UV 001	4/10				120/1	P-3	20/1					MAN	DIV 26	DIV 26	DIV 26	3	12	12	3/4"C	3,12
3	BS-1 - BAR SCREEN	BAR SCREEN 101	2				480/3	MDP-2,4,6	20/3S-ST	VFD AND FVRS	EQUIPMENT MANF.	DIV 26	DIV 26	ECB-ST	DIV 26	DIV 26	DIV 26	3	12	12	1"C	2,5,6,14,15
4	BL-1 - BLOWER	BLOWER 105	25				480/3	MDP-8,10,12	70/3	VFD	EQUIPMENT MANF.	DIV 26	DIV 26	FSSW-100KA MIN	DIV 26	DIV 26	DIV 26	3	4	8	1-1/4"C	6,9
5	BL-2 - BLOWER (BACKUP)	BLOWER 105	25				480/3	MDP-8,10,12	70/3	VFD	EQUIPMENT MANF.	DIV 26	DIV 26	FSSW-100KA MIN	DIV 26	DIV 26	DIV 26	3	4	8	1-1/4"C	6,9
6	CF-1 - CHEMICAL FEED PUMP	CHEM FEED 102					120/1	P-5	20/1					RECEPTACLE	DIV 26	DIV 26	DIV 26	3	12	12	3/4"C	6, 10
7	CF-2 - CHEMICAL FEED PUMP	CHEM FEED 102					120/1	P-7	20/1					RECEPTACLE	DIV 26	DIV 26	DIV 26	3	12	12	3/4"C	6, 10
8	M-1 - MIXER	EXTERIOR POND	3				480/3	MDP-20,22,24	15/3					FSSW-NEMA 4X	DIV 26	DIV 26	DIV 26	3	8	10	1"C	6,7,13
9	SP-2 - SUMP PUMP NO.1	UV 001	1/2				120/1	P-35	20/1					MAN	DIV 26	DIV 26	DIV 26	3	12	12	3/4"C	3,12
10	SP-2 - SUMP PUMP NO.2	UV 001	1/2				120/1	P-37	20/1					MAN	DIV 26	DIV 26	DIV 26	3	12	12	3/4"C	3,12
11	NOT USED																					
12	MAU-1 - MAKE UP AIR UNIT	ROOF	1 1/2				480/3	MDP-7,9,11	15/3	MAN	DIV 23	DIV 26	DIV 26		DIV 23	DIV 26	DIV 26	3	12	12	1"C	1
13	SEF-1 - EXHAUST FAN	BAR SCREEN 101	1/10				120/1	P-9	20/1	MAN	DIV 23	DIV 26	DIV 26		DIV 23	DIV 26	DIV 26	2	12	12	3/4"	1,2
14	SEF-2 - EXHAUST FAN	CHEM FEED 102	1/6				120/1	P-11	20/1	MAN	DIV 23	DIV 26	DIV 26		DIV 23	DIV 26	DIV 26	2	12	12	3/4"	1
F	SEF-3 - EXHAUST FAN	ELECTRICAL 104	3				480/3	MDP-19,21,23	20/1	MAN	DIV 23	DIV 26	DIV 26		DIV 23	DIV 26	DIV 26	2	12	12	3/4"	1
16	WP-1 - WELL PUMP	EXTERIOR-	5 - VERFY				208/1	P-18,20	35/2					NFSSW	DIV 26	DIV 26	DIV 26	2	4	8	1 1/2"	8
17	CP-1 - CIRC PUMP - WATER HEATER	BLOWER 105	1/7				120/1	P-16	20/1					MAN	DIV 26	DIV 26	DIV 26	2	12	12	3/4"	3
18	DS-1 (CONDENSOR)	ROOF		19			208/1	P-26,28	25/2					NFSSW	DIV 26	DIV 26	DIV 26	2	10	10	1"	1,11

NOTES:
1. COORDINATE ALL STARTERS AND DISCONNECTS WITH THE HVAC CONTRACTOR PRIOR TO BIDDING.
2. EQUIPMENT IS LOCATED WITIN A CLASSIFIED DESIGNATED AREA / ROOM - CLASS I / DIV 1 - PROVIDE RATED / CLASSIFIED WIRING METHODS, MATERAL, PRODUCTS AND INSTALLATION PER CODE.
3. COORDINATE ALL STARTERS AND DISCONNECTS WITH THE PLUMBING CONTRACTOR PRIOR TO BIDDING.
4. PROVIDE AND INSTALL TYPE 1 SURGE PROTECTION DEVICE FOLLOING DISCONNECT. MIN SUREGE 40KA PER PHASE, MIN DISCHARGE 10KA, MIN SHORT CIRCUIT 200KA
5. SHUNT TRIP TYPE BREAKER - INTERLOCK WITH EQUIPMENT E-STOP.
6. VERIFY SELECTED EQUIP. REQUIREMENTS: / HP / LOAD / OVERCURRENT PROTECTION / STARTERS / DISCONNECTS / AND LOCATION PRIOR TO STARTING CONSTRUCTION
7. SERVICE FEEDER TO BE CSA/UL APPROVED FR SEVERE ENVIROMENT, SUITABLE FOR UNDERWATER SERVICE AND ONE CONTINUOUS LENGTH. CABLE SHALL BE JACKETED, FLEXIBLE STRANDED CABLE WITH INDIVIDUALLY WRAPPED CONDUCTORS RATED SEOOW OR EQUAL.
8. VERIFY REQUIREMENTS / HP / LOAD / LOCATION OF WELL PUMP WITH WELL DRILLING COMPANY. PROVIDE ALL ELECTRICAL TO MEET REQUIREMENTS.
9. PROVIDE DISCONNECT PER MANUFACTURERS REQUIREMENTS.
10. RECEPTACLE TO BE CORROSIVE RESISTANT TYPE WHILE IN USE. VERUFY NEMA PLUG CONFIGURATION WITH EQUIPMENT SUPPLIER.
11. WIRE INDOOR WALL FAN FROM OUTDOOR CONDENSOR.
12. CONTROL PANEL BY PLUMBING CONTRACTOR - VERIFY WIRING REQUIREMENTS.
13. MOTOR LOCATED WITHIN LAGOON / POND. DISCONNECT TO BE LOCATED AT THE EXTERIOR, AT SHORE AREA OF LAGOON / POND ON GALVINIZED UNISTRUT FRAMING BY THE ELECTRICAL CONTRACTOR. VERIFY FINAL ROUTING DISTANCE AND UPSIZE FEEDER IF REQQUIRED TO ACCOMMODATE VOLTAGE DROP.
14. PROVIDE 120 CONTROL CIRCUIT TO UNITS CONTROL TRANSFORMER.
15. UL498 MCCB TO BE UTILIZED PER MANUFACTTURER.
16. PROVIDE AND INSTALL PHASE MONITOR FOLLOWING SURGE DEVICE PER EQUIPMENT SPECUFICATIONS

ABBREVIATIONS:
FSSW: FUSED SAFETY SWITCH
NFSSW: NON-FUSED SAFETY SWITCH
MECH: MECHANICAL / HVAC CONTRACTOR
ECB: ENCLOSED CIRCUIT BREAKER
COMB: COMBINATION STARTER
MAG: MAGNETIC STARTER
FVRS: FULL VOLTAGE REVERSING TYPE STARTER
ST: SHUNT TRIP
MAN: MANUAL
TST: SHUNT TRIP BREAKER
C/P: CORD AND PLUG
HP: HORSEPOWER
TS: 20A TOGGLE SWITCH
(R): ROOF
EQUIP: INTEGRAL WITH EQUIPMENT
EMT: ELECTRICAL METALLIC TUBING
HWR: RIGID CONDUIT, HEAVY WALL
LFMC: LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
PVC: SCHEDULE 40 PVC
ETR: EXISTING TO REMAIN
MANF: MANUFACTURER
ER EXISTING RELOCATED

GENERAL NOTES:
A. WHEN STARTERS AND DISCONNECTS ARE PROVIDED BY HVAC, INSTALL STARTERS AND MAKE ALL RELATED LINE VOLTAGE ELECTRICAL CONNECTIONS - AID MECHANICAL CONTRACTOR ON SELECTION AND PROPER AIC RATING PRIOR TO ORDERING.
B. ALL MAG/COMB STARTERS ARE TO BE PROVIDED WITH HAND-OFF-AUTO SELECTOR SWITCHES. ALL MAN STARTERS ARE TO HAVE A PILOT LIGHT.
C. PROVIDE DUCT SMOKE DETECTORS FOR AIR HANDLING TYPE UNITS. PROVIDE ONE DETECTOR AT THE RETURN AND ONE AT THE SUPPLY, FOR EACH UNIT.
D. VERIFY IN-RUSH CURRENTS OF ALL MOTORS PRIOR TO ELECTRICAL ROUGH-IN/PURCHASE.
E. VERIFY LOCATION OF MOTORS WITH THE TRADE SUPPLYING THEM. LOCATIONS SHOWN ON ELECTRICAL PLANS ARE ONLY APPROXIMATE.

PANEL: P — TUB 1 OF1

Voltage: 120/208 | Type: PANELBOARD
Phase: 3 | Manufacturer: SQUARE D
Wire: 4 | Model: NQ
Amperage: 225 | Bus and Lug Material: COPPER
Main lug/breaker: MCB - 225 | Feeder: FROM MDP
No. of tubs: 1 | Project: LARSON - WINCHESTER SAN. DISTRICT
Circuits per tub: 54 | AIC: 65K - FULL RATED - VERIFY AVAILABLE FAULT CURENT WITH LOCAL UTILITY

C= COOLING, E= ELEVATOR, F= FUTURE (SPARE), H= HEATING, L= LIGHTING, M= MOTOR, P= PUMPS, R= RECEPTACLE, U= UNASSIGNED, W= WATER HEATING

DESCRIPTION	TYPE	CB	WATTS A	WATTS B	WATTS C	CKT	CKT	WATTS A	WATTS B	WATTS C	DESCRIPTION	TYPE	CB
SP-1 - PUMP NO.1	P	20/1	1020			1	2	501			BSC-1 - CONTROL CKT	U	20/1
SP-1 - PUMP NO.2	P	20/1		1020		3	4		600		UVMP-1	U	20/1
CF-1	P	20/1			1200	5	6			768	UV-2 AND UV-2A	U	20/1
CF-2	P	20/1	1200			7	8	176			EXTERIOR FLOOD LIGHTING	L	20/1
SEF-1	M	20/1		300		9	10		660		EXTERIOR WALL PACK LIGHTING	L	20/1
SEF-2	M	20/1			528	11	12			180	RECEPTACLE - GENERATOR	R	20/1
RECEPTACLES	R	20/1	720			13	14	688			INTERIOR LIGHTING	L	20/1
RECEPTACLES	R	20/1		540		15	16		984		WH-1 / CP-1	M	20/1
RECEPTACLES / BL-1 CONTROL PANEL	U	20/1			1440	17	18			2912	WP-1 - WELL PUMP	M	35/2
RECEPTACLES / WS-1	U	20/1	1440			19	20	2912				M	
RECEPTACLES	R	20/1		180		21	22		1320		RS-1	U	20/1
ALTERNATER AND CONTROL HEATER	U	20/1			501	23	24			1320	RS-2	U	20/1
BATTERY CHARGER	U	20/1	900			25	26	1976			DS-1 (CONDENSOR)	C	25/2
BATTERY HEATER	U	20/1		1500		27	28		1976			C	
CCV HEATER	U	20/1			900	29	30				IFM-1	U	20/1
COLD CLIMATE HEATER	U	20/2	1400			31	32				EFM-1	U	20/1
	U			1400		33	34				SPARE	F	40/2
SP-2 - PUMP NO.1	P	20/1			1140	35	36					F	
SP-2 - PUMP NO.2	P	20/1	1140			37	38				SPARE	F	60/2
BASEMENT LIGHTING	L	20/1		560		39	40					F	
EBB-1	H	20/1			500	41	42				SPARE	F	20/1
			7820	5500	6209			6253	5540	5180			

TUB 1 WATTAGE TOTALS:
Total A: 14073
Total B: 11040
Total C: 11389

Total Watts: 36502
FLA (208V): 101.32
MCA (208V): 126.65

Main: MCB - 225
Circuits per tub: 54
C= COOLING, E= ELEVATOR, F= FUTURE (SPARE), H= HEATING, L= LIGHTING, M= MOTOR, P= PUMPS, R= RECEPTACLE, U= UNASSIGNED, W= WATER HEATING

DESCRIPTION	TYPE	CB	WATTS A	WATTS B	WATTS C	CKT	CKT	WATTS A	WATTS B	WATTS C	DESCRIPTION	TYPE	CB
SPARE	F	15/2				43	44				SPARE	F	20/1
	F					45	46				SPARE	F	20/1
SPARE	F	20/2				47	48				SPARE	F	20/1-G
	F					49	50				SPARE	F	20/1-G
SPARE	F	15/1				51	52				SPARE	F	20/1-G
SPARE	F	15/1				53	54				SPARE	F	20/1-G
			0	0	0			0	0	0			

TUB 2 WATTAGE TOTALS:
Total A: 0
Total B: 0
Total C: 0

Total Watts: 0
FLA (208V): 0.00
MCA (208V): 0.00

WATTAGE TOTALS FOR BOTH TUBS:
Phase A 14073
Phase B 11040
Phase C 11389

Diversified Watts: 36502
FLA (208V): 101.32
MCA (208V): 126.65

Total Watts: 36502
Panel Load Factor (%): 100
Load Diversification (VA):

PLAN NOTES - ONE-LINE DIAGRAM

1. SEE SCHEDULES FOR ADDITIONAL BRANCH CIRCUIT BREAKERS - VERIFY FINAL HVAC / PLUMBING LOADS.
2. SURGE SUPPRESSION DEVICE - SEE DETAIL 3/E2.2.
3. PROVIDE PANEL PLAQUE - SEE DETAIL 4/E2.2.
4. PROVIDE AND INSTALL CT CABINET / METER BASE PER LOCAL POWER UTILITY COMPANY.
5. PROVIDE AND INSTALL ELECTRICAL SERVICE GROUNDING SYSTEM PER THE NEC. SEE BUILDING GROUNDING DETAIL 2/E2.2 FOR ADDITIONAL GROUNDING REQUIREMENTS. GROUND PER NEC 250.
6. SINGLE TUB - 54 SPACE PANELBOARD.
7. UTILITY TRANSFORMER - COORDINATE FINAL LOCATION AND ELECTRICAL REQUIREMENTS.
8. COORDINATE CONCRETE PAD REQUIREMENTS WITH THE GENERAL CONTRACTOR AND THE LOCAL POWER UTILITY COMPANY.
9. VERIFY WITH LOCAL POWER UTILITY COMPANY SECONDARY TRANSFORMER FEEDER REQUIREMENTS AND PROVIDE PER THAT UTILITY.
10. GENERATOR CONCRETE PAD - COORDINATE CONCRETE PAD REQUIREMENTS WITH THE GENERAL CONTRACTOR AND SELECTED EQUIPMENT MANUFACTURER.
11. WEATHERPROOF / SOUND PROOF ENCLOSURE.
12. PROVIDE SERVICE RATED AUTOMATIC TRANSFER SWITCH WITH MAIN ELECTRICAL SERVICE DISCONNECT. VERIFY AVAILABLE FAULT CURRENT.
13. VERIFY WITH THE UTILITY AVAILABLE FAULT CURRENT AND FINAL LOCATION OF UTILITY TRANSFORMER / ELECTRICAL SERVICE FEEDER LENGTH.
14. MAINTAIN CODE CLEARANCES BETWEEN UTILITY TRANSFORMER AND GENERATOR.
15. UTILIZE ADJUSTABLE TRIP LI MISSION CRITICAL TYPE BREAKER.

BUILDING STUDIES: SPEC. 26 05 72 / 26 05 74

BUILDING STUDIES TO ENCOMPASS ALL ELECTRICAL PANELS, TRANSFER SWITCH, MOTORS, TRANSFORMERS, ETC.

OBTAIN AVAILABLE FAULT CURRENT AT FROM THE LOCAL POWER UTILITY.

ELECTRICAL CONTRACTOR TO PROVIDE A SHORT CIRCUIT AND ARC-FLASH ELECTRICAL SYSTEM BUILDING STUDY, PER THE PROJECT SPECIFICATIONS.

ALL BUILDING STUDIES TO BE COMPLETED AS SOON AS POSSIBLE AFTER PROJECT IS AWARDED.

NO ELECTRICAL EQUIPMENT SHALL BE SUBMITTED VIA SHOP DRAWINGS FOR APPROVAL OOR ORDERED PRIOR TO COMPLETION AND RESOLUTION OF ALL THE BUILDING STUDIES.

ELECTRICAL CONTRACTOR TO HOLD A $5,000.00 CONTINGENCY FOR ANY CHANGES TO THE ELECTRICAL DISTRIBUTION SYSTEM RESULTING FROM ANY REQUIRED CHANGES FROM BUILDING STUDIES.

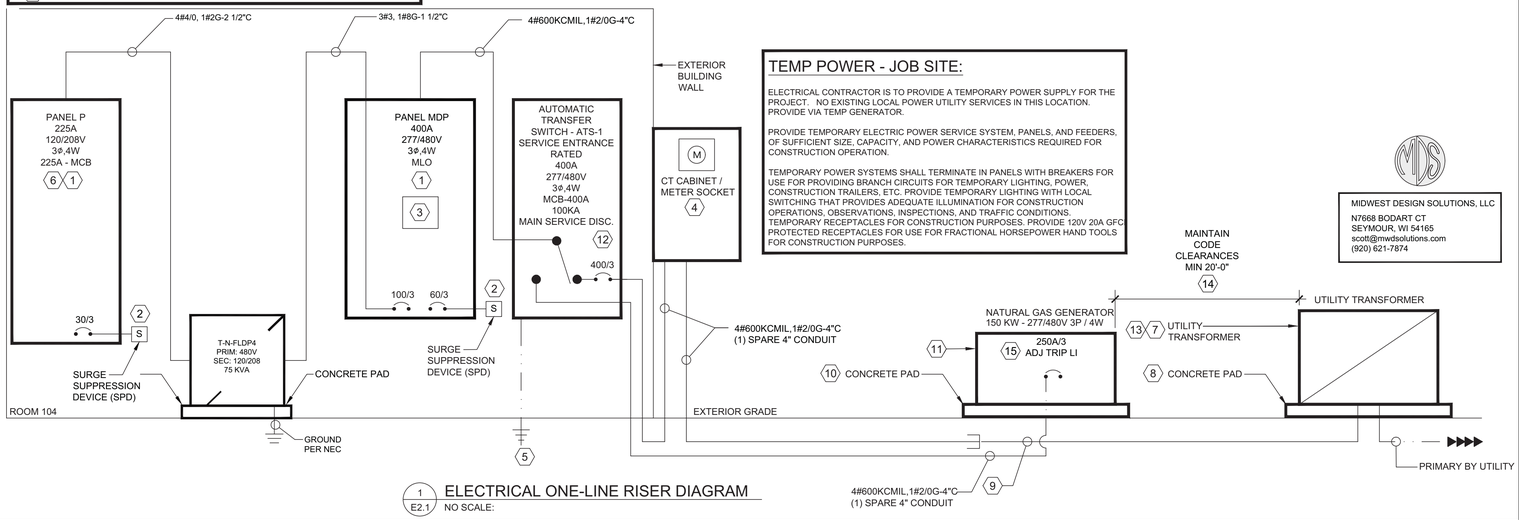
ELECTRICAL CONTRACTOR TO ADJUST PANELS AND CIRCUIT BREAKERS PER BUILDING STUDIES AS REQUIRED. DO NOT ORDER ANY EQUIPMENT UNTIL ALL STUDIES ARE COMPLETED AND EQUIPMENT ADJUSTMENTS HAVE BEEN MADE.

SPECIAL OUTLET SCHEDULE

NO.	DESCRIPTION	LOC.	WATTS	MCA	VOLTAGE	CIRCUIT	BREAKER	DISC.	FEEDER	NOTES
1	BSC-1 - CONTROL CKT	ELECTRICAL ROOM 104	201		120/1	P-2	20/1	VERIFY W/ SUPPLIER	2#12, 1#12G-3/4"C	3
2	EBB-1 - ELECTRIC BASEBOARD		500		120/1	P-41	20/1			8
3	UV-2 - PANEL DISTR. RECEPTACLES (PDR)	UV ROOM 001	384		120/1	P-6	20/1	VERIFY W/ SUPPLIER	2#12, 1#12G-3/4"C	3,6
3A	UV-2A - PANEL DISTR. RECEPTACLES (PDR)	UV ROOM 001	384		120/1	P-6	20/1	VERIFY W/ SUPPLIER	2#12, 1#12G-3/4"C	3,6
4	UVMP-1 - MONITORING PANEL POWER SUPPLY	ELECTRICAL ROOM 104	600		120/1	P-4	20/1	VERIFY W/ SUPPLIER	2#12, 1#12G-3/4"C	3,5
5	NOT USED									
6	COLD CLIMATE COOLANT HEATER (GENERATOR)	EXTERIOR GENERATOR			208/1	P-23	20/2		4#12-1"C	1
7	ALTERNATER AND CONTROL HEATER (GENERATOR)	EXTERIOR GENERATOR			120/1	P-25	20/1		2#12, 1#12G-1"C	1
8	BATTERY CHARGER (GENERATOR)	EXTERIOR GENERATOR			120/1	P-27	20/1		2#12, 1#12G-1"C	1
9	BATTERY HEATER (GENERATOR)	EXTERIOR GENERATOR			120/1	P-29	20/1		2#12, 1#12G-1"C	1
10	CCV HEATER (GENERATOR)	EXTERIOR GENERATOR			120/1	P-31,33	20/1		2#12, 1#12G-1"C	1
11	GENERATOR ADDITIONAL CONDUITS	EXTERIOR GENERATOR							SPARE CONDUITS	2
12	MCP-1 - (MAIN CONTROL PANEL)	ELECTRICAL ROOM 104	250		120/1	P-17	20/1	VERIFY W/ SUPPLIER	2#12, 1#12G-3/4"C	3
13	WH-1 (GAS WATER HEATER)	BLOWER ROOM 105	744		120/1	P-16	20/1	MAN	2#12, 1#12G-3/4"C	4
14	WS-1 (WATER SOFTNER)	BLOWER ROOOM	250		120/1	P-19	20/1	RECEPTACLE	2#12, 1#12G-3/4"C	4
15	RS-1 (REFRIGERATOR SAMPLER)	EXTERIOR	1320		120/1	P-22	20/1	RECEPTACLE	2#12, 1#12G-3/4"C	7
16	RS-2 (REFRIGERATOR SAMPLER)	EXTERIOR	1320		120/1	P-24	20/1	RECEPTACLE	2#12, 1#12G-3/4"C	7
17	IFM-1 - INFLUENT FLOW MEETER	BAR SCREEN 101 (IN PIT)	500		120/1	P-30	20/1	VERIFY W/ SUPPLIER	2#12, 1#12G-3/4"C	
18	EFM-1 - EFFLUENT FLOW MEETER	UV ROOM 001	500		120/1	P-32	20/1	VERIFY W/ SUPPLIER	2#12, 1#12G-3/4"C	

NOTES:
1. VERIFY WITH THE GENERATOR MANUFACTURER ALL REQUIRED CIRCUITS, WIRING, AND THEIR LOADS PRIOR TO THE START OF CONSTRUCTION AND ROUGH-IN.
2. PROVIDE AND INSTALL ALL LOW VOLTAGE CONTROL WIRING AND CONDUIT(S) AND AN ADDITIONAL (1) 1" EMPTY SPARE CONDUIT TO GENERATOR FROM PANEL P.
3. SPLITTER PANEL TO SERVE EACH PDR RECEPTACLE - MOUNTED WITHIN 10' OF UV-2 AND UV-2A - VERIFY FINAL LOCATION.
4. COORDINATE ALL STARTERS AND DISCONNECTS WITH THE PLUMBING CONTRACTOR PRIOR TO BIDDING AND PROVIDE ALL IF NOT PROVIDED BY THE PLUMBING CONTRACTOR.
5. WALL MOUNTED SYSTEM PANEL - VERIFY EXACT LOCATION
6. PROVIDE (3) DUPLEX GFCI / WP RECEPTACLES MOUNTED ON UNISTRUT AT EQUIPMENT WIRED THRU UV-1 (SPLITTER PANEL). VERIFY EXACT LOCATION WITH SUPPLIER.
7. PROVIDE A GFCI / WP RECEPTACLE AT UNIT - SURFACE MOUNT AT 48" AT UNIT.
8. COORDINATE ALL STARTERS AND DISCONNECTS WITH THE HVAC CONTRACTOR PRIOR TO BIDDING AND PROVIDE ALL IF NOT PROVIDED BY THE HVAC CONTRACTOR.

GENERAL NOTES:
A. WHEN STARTERS AND DISCONNECTS ARE PROVIDED BY HVAC, INSTALL STARTERS AND MAKE ALL RELATED LINE VOLTAGE ELECTRICAL CONNECTIONS.
B. ALL MAG/COMB STARTERS ARE TO BE PROVIDED WITH HAND-OFF-AUTO SELECTOR SWITCHES. ALL MAN STARTERS ARE TO HAVE A PILOT LIGHT.
C. VERIFY IN-RUSH CURRENTS OF ALL MOTORS PRIOR TO ELECTRICAL ROUGH-IN/PURCHASE.



1 E2.1 ELECTRICAL ONE-LINE RISER DIAGRAM
NO SCALE:

TEMP POWER - JOB SITE:

ELECTRICAL CONTRACTOR IS TO PROVIDE A TEMPORARY POWER SUPPLY FOR THE PROJECT. NO EXISTING LOCAL POWER UTILITY SERVICES IN THIS LOCATION. PROVIDE VIA TEMP GENERATOR.

PROVIDE TEMPORARY ELECTRIC POWER SERVICE SYSTEM, PANELS, AND FEEDERS, OF SUFFICIENT SIZE, CAPACITY, AND POWER CHARACTERISTICS REQUIRED FOR CONSTRUCTION OPERATION.

TEMPORARY POWER SYSTEMS SHALL TERMINATE IN PANELS WITH BREAKERS FOR USE FOR PROVIDING BRANCH CIRCUITS FOR TEMPORARY LIGHTING, POWER, CONSTRUCTION TRAILERS, ETC. PROVIDE TEMPORARY LIGHTING WITH LOCAL SWITCHING THAT PROVIDES ADEQUATE ILLUMINATION FOR CONSTRUCTION OPERATIONS, OBSERVATIONS, INSPECTIONS, AND TRAFFIC CONDITIONS. TEMPORARY RECEPTACLES FOR CONSTRUCTION PURPOSES. PROVIDE 120V 20A GFCI PROTECTED RECEPTACLES FOR USE FOR FRACTIONAL HORSEPOWER HAND TOOLS FOR CONSTRUCTION PURPOSES.

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N7668 BODART CT
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Planning
Environmental
Surveying
Engineering
Architecture

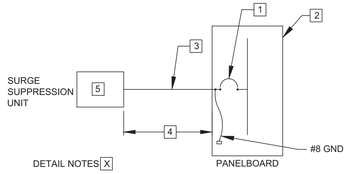
APPROVED INITIALS
CHECKED INITIALS
DRAWN BY INITIALS
NO. REVISION DATE

LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE: VARIES
DATE: 10-16-24
PROJECT NUMBER: 1-0049-029

ONE-LINE POWER DISTRIBUTION DIAGRAM AND SCHEDULES

DRAWING NO. E2.1



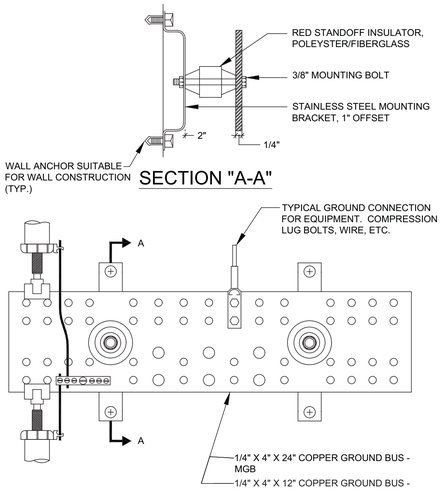
DETAIL NOTES [X]

1. PROVIDE 60 AMP 3 PHASE CURRENT LIMITING BREAKER IN MAIN SERVICE PANEL
2. MAIN SERVICE PANEL OR DISTRIBUTION PANEL - SEE DRAWINGS.
3. 4#6, 1#6 GND IN 1 1/4" CONDUIT FOR 60 AMP MAIN SERVICE SUPPRESSION
4. CONDUIT AND FEEDER DISTANCE NOT TO EXCEED 5 FEET.
5. SQUARE D / MERSEN OR EQUAL.

SURGE SUPPRESSION CONNECTION

3 / E2.2

NO SCALE



FRONT ELEVATION

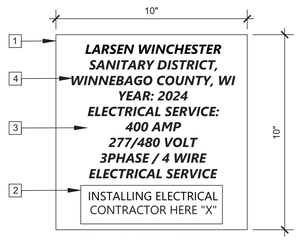
GROUNDING BAR MGB AND EGB1

2 / E2.2

NO SCALE

DETAIL NOTES [X]

1. INSTALL THIS ENGRAVED NAMEPLATE AT PANEL MDP
2. PLACE INSTALLING ELECTRICAL CONTRACTORS NAME IN THIS LOCATION.
3. STATE PER ELECTRICAL SERVICE CHARACTERISTICS.
4. PROJECT PER TITLEBLOCK



ENGRAVED NAMEPLATE - SERVICE

4 / E2.2

NO SCALE

GROUNDING SYSTEM

MUST ACHIEVE LESS THAN 10 OHMS OR AS NOTED SPECIFICATIONS SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS.

GROUND CONDUCTORS TO BE ROUTED IN CONDUIT.

PROVIDE ALL CONDUIT SLEEVES THRU WALLS / FLOORS.

PROVIDE ALL FIRE STOPPING AND SEALING.

ALL GROUND CONDUCTORS ON THIS DIAGRAM SHALL BE COPPER.

ALL GROUNDING CONDUCTORS SIZES SHALL CONFORMS TO THE GUIDELINES SET BY THE NEC.

INSTALL PER NEC 250

HVAC AIR DUCTS

EACH SECTION OF HVAC DUCT SHALL BE BONDED WITH A STRANDED #6 AWG CONDUCTOR TERMINATED WITH 2-HOLE COMPRESSION CONNECTOR (#10 BOLT HOLES). THE COMPRESSION LUG SHALL BE TERMINATED USING A COAT OF NO-OX APPLIED TO THE SKINNED CONDUCTOR AND COMPRESSED USING A UL APPROVED CRIMPER SPECIFIED BY THE TERMINAL MANUFACTURE. TERMINAL SHALL BONDED ON EACH END ACROSS THE HVAC JUNCTION BY LIGHTLY SANDING THE AREA WITH SCOTCH-BRITE TO REMOVE ANY DEBRIS AND A LIGHT COAT OF NO-OX APPLIED TO THE JUNCTION AREA. SELF TAPPING SCREWS (METHOD MUST BE APPROVED BY HVAC ENGINEER AND CONTRACTOR), AND EXTERNAL TOOTH LOCK WASHERS SHALL BE USED TO BOND THE FINISHED TERMINAL TO THE HVAC DUCT.

BONDING THE HAVE DUCT RUN WITH 6 AWG TO AN EGB BUSS.

PROVIDE AND INSTALL WITH ANY AND ALL NFPA REQUIREMENTS.

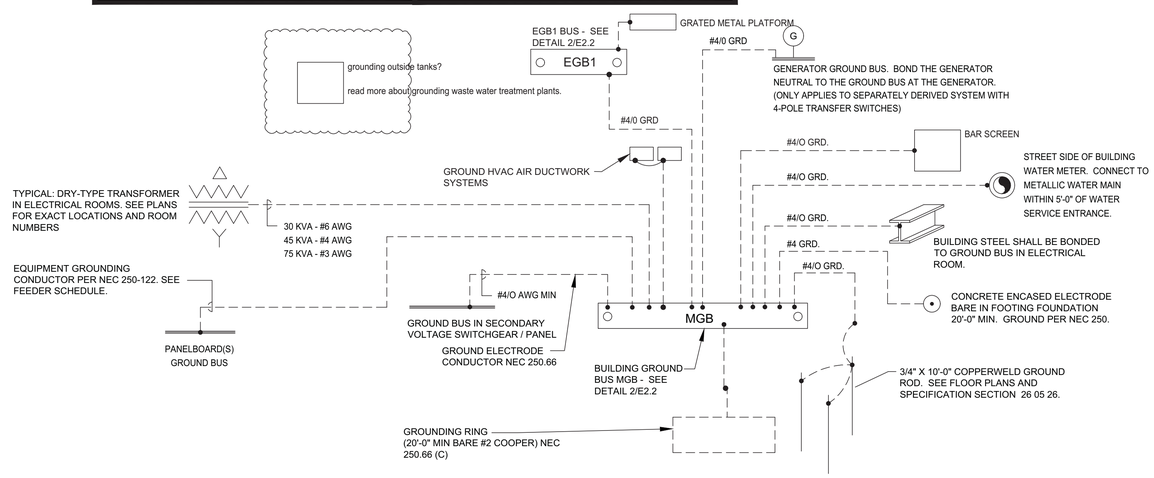
PIPING SYSTEMS

BOND ALL PIPING SYSTEMS.

BONDING AND GROUNDING CLASS I, DIVISION 1 AND 2 AREAS: NATIONAL ELECTRICAL CODE (N.E.C.) 2017

REGARDLESS OF THE VOLTAGE OF THE ELECTRICAL SYSTEM, WIRING AND EQUIPMENT IN CLASS I, DIVISION 1 AND 2 LOCATIONS SHALL BE GROUNDED AS SPECIFIED IN ARTICLE 250 AND IN ACCORDANCE WITH THE REQUIREMENTS OF 501.30 (A)AND (B).

GROUND / BOND ALL METAL GRATED ELECTRICAL MEZZANINE PLATFORMS, HVAC DUCTWORK, PIPING SYSTEMS, CODE REQUIRED ITEMS AS WELL AS ANY CODE REQUIRED ITEM IN ALL SPACES WITH CLASS I / DIV 1 OR 2 HAZARDOUS SPACES. GROUND TO LESS THAN 10 OHMS AS REQUIRED TO ACCOMPLISH.



BUILDING GROUNDING ELECTRODE SYSTEM DETAIL

1 / E2.2

NO SCALE

ELECTRICAL SYMBOLS

- DUPLEX RECEPTACLE (D)(G)
- DUPLEX RECEPTACLE ABOVE COUNTER (B)(D)
- DOUBLE DUPLEX RECEPTACLE (D)(G)
- USB OUTLET (D)
- BLANK BOX (B)(C)(F)
- MOTOR - SEE SCHEDULE (A)(H)
- SPECIAL OUTLET - SEE SCHEDULE (A)(H)
- "XX" CONTROLS WIRING - SEE CONTROLS WIRING SCHEDULE
- SURFACE MOUNTED PANELBOARD
- F FUSED SAFETY SWITCH - DISCONNECT
- V VARIBLE FREQ. DRIVE - VFD (H)
- E ENCLOSED CIRCUIT BREAKER (H)
- R FULL VOLTAGE REVERSE STARTER (H)
- S SURGE PROTECTION DEVICE
- P PHASE MONITOR
- $ SINGLE LEVEL LIGHT SWITCH (E)(G)
- LIGHT SWITCHING/POWER CIRCUIT
- BRANCH CIRCUITING
- SURFACE LINEAR STRIP LIGHT FIXTURE - LED (A)
- ENCLOSED / VAPOR TIGHT LIGHT FIXTURE - LED (A)
- CLASS I / DIV 1 - EXPLOSION PROOF LIGHT FIXTURE - LED (A)(H)
- EXTERIOR WALL / BUILDING MOUNT LIGHT - LED (A)
- EMERGENCY STOP
- LOOP LEADER
- (X) PLAN NOTE SYMBOL
- (A) REVISION CLOUD IDENTIFICATION MARK
- LINE CONTINUATION BREAK

ELECTRICAL SYMBOL NOTES:

(A) SEE APPROPRIATE SCHEDULE.

(B) WHERE SYMBOL INDICATES INSTALLATION ABOVE A COUNTER, INSTALL RECEPTACLE 4" ABOVE COUNTER BACKSPLASH OR COUNTER (IF BACKSPLASH IS NOT PRESENT). IF COUNTER DOES NOT EXIST, INSTALL AT 48" AFF, UNLESS NOTED OTHERWISE. COORDINATE WITH CASEWORK DETAILS PRIOR TO ROUGH-IN.

(C) PROVIDE DOUBLE GANG BOX WITH SINGLE GANG OPENING. ROUTE A CONDUIT TO ABOVE ACCESSIBLE CEILING AND BUSH END OF CONDUIT - SEE DETAIL 1/E2.1.

(D) RECEPTACLE SUBSCRIPTS:
GFI GROUND FAULT INTERRUPTING
WP WEATHER RESISTANT
CR CORROSIVE RESISTANT TYPE
USB QUAD INTEGRAL USB CHARGER - (2) TYPE A, (2) TYPE C

(E) SWITCH SUBSCRIPTS:
3 3-WAY SWITCHING
WP WEATHERPROOF COVER / HOUSING
CR CORROSION RESISTANT TYPE

(F) INSTALL AT 24" AFF, UNLESS NOTED OTHERWISE. TOP OF BOX

(G) INSTALL AT 48" AFF, UNLESS NOTED OTHERWISE. TOP OF BOX.

(H) EXP: HAZARDOUS WIRING / EXPLOSION PROOF / CLASS I / DIV 1.

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920.731.0381 1.800.236.0381

	APPROVED	CHECKED	DRAWN BY
INITIALS		INITIALS	INITIALS
REVISION			DATE
			NO.

LARSEN-WINCHESTER SANITARY DISTRICT
NEW CONTROL BUILDING
WWTP IMPROVEMENTS
GRANDVIEW ROAD | LARSEN, WISCONSIN

SCALE	DATE
VARIES	10-16-24

PROJECT NUMBER
1-0049-029

ELECTRICAL DETAILS AND SYMBOLS LIST

DRAWING NO.
E2.2

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster Street
Box 7921
Madison WI 53707-7921

Tony Evers, Governor

Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

January 13, 2025

SCOTT REIF PRESIDENT
LAUREN WINCHESTER SANITARY DISTRICT
PO BOX 85
LAUREN WI 54947

Low Cap WWTP Well Approval Number: 66722

Subject: WASTEWATER TREATMENT PLANT WELL CONSTURUCTION AND WATER SYSTEM OPERATION APPROVAL – TOWN OF CLAYTON – WINNEBAGO COUNTY

Dear Mr. Reif:

The Wisconsin Department of Natural Resources, Division of Environmental Management, Bureau of Drinking Water (department) is conditionally approving the proposed wastewater treatment plant (WWTP) well construction and proposed water supply system for the existing Lauren Winchester Sanitary District WWTP.

Water system name: Lauren Winchester Sanitary District WWTP
Date received: 01/02/2025
Well Driller: Tom Van de Yacht – Ground Source, Inc.
Regional DNR Contact: Jim Kasdorf, 1027 W ST Paul Ave., Milwaukee, WI 53233-2641, (715) 579-9729, james.kasdorfJr@wisconsin.gov
DNR Plan Reviewer: Ken Scherer, 101 South Webster Street, Madison, WI 53703, (715) 520-3981, kenneth.scherer@wisconsin.gov

The department has reviewed and approved your application to construct a private potable wastewater treatment plant water supply well for the Lauren Winchester Sanitary District, Winnebago County. One 50 gallon per minute well is proposed. The well will be constructed to the standards for a WWTP water supply terminating in a bedrock formation in the arsenic special well casing area. The well will discharge to a new pressure tank and will supply water for potable needs for the facility.

Your application received an engineering review to determine compliance with the well construction and pump installation requirements of ch. NR 812, Wis. Adm. Code and ch. 281, Wis. Stats. The department's engineering review indicates that the proposed construction complies with ch. NR 812 requirements; however, you and your well driller are responsible for complying with all provisions of ch. NR 812 and the conditions contained in this approval. Be advised that this project may require permits or approvals from other federal, state, or local authorities, such as the Wisconsin Department of Safety and Professional Services.

This approval applies to the components of the water system from the point of withdrawal through the first storage vessel. Any part of the water distribution system after the first storage vessel is considered plumbing and is subject to applicable state and local plumbing code.

Review this approval in its entirety. Please contact Ken Scherer at (715) 520-3981 with any questions or concerns.

WELL LOCATION, PUMP AND DISCHARGE

Well Name	WWTP Well 1
PLSS Description	SE ¼ of the SW ¼ of Section 19, T 20 N, R 16 E
Latitude (Decimal Degrees)	44.18683° N
Longitude (Decimal Degrees)	88.63782° W
Pump Type	Submersible
Pump Capacity (gpm)	50
Discharge Type	Pitless Adapter
Discharge Location	Pressure tank < 1000 gal

WELL CONSTRUCTION

Drilling Method	Mud Rotary
Approved Finished Aquifer	Sandstone
Total Well Depth	300 ft.
Enlarged Drillhole Diameter/Depth	10' in. / 0 ft. to 140 ft.
Lower Drillhole Diameter/Depth	6 in. / 140 ft. to 300 ft.
Casing Diameter/Wall Thickness	6 in. / 0.280' in.
Casing Material/Joint Type	Steel / Welded
Depth of Casing	140 ft.
Annular Space Seal Type	Neat Cement Grout
Annular Space Seal Length	140 ft.
Screen Material/Slot Size (inches)/Depth Interval	None

Variances being issued to Chapter NR 812, Wis. Adm. Code: The WWTP currently has two lagoons, Cell Nos. 1 and 2. As part of the proposed improvements, Cell No. 2 will be drained and the sludge will be removed. The proposed well will be installed within the abandoned Cell No. 2. Cell No. I will remain in place until the WWTP improvements are complete. During the WWTP improvements, the proposed well will be located within 250 feet of Cell No. 1. This will be a temporary situation. Once the improvements are completed, Cell No. l will be drained and the sludge will be removed. Cell Nos. 1 and 2 will be replaced by a new lagoon that will be at least 250 feet from the proposed well. **See Condition No. 11.**

Existing Wells: Reportedly, the existing WWTP well (WUWN BH163) was abandoned April 15, 2011.

Approval conditions related to Chapters NR 812, Wis. Adm. Code:

1. It is the responsibility of the owner, well driller, and pump installer to ensure the well construction and pump installation are completed in compliance with the requirements of ch. NR 812, Wis. Adm. Code and with the conditions of this approval. If the department discovers features or aspects of the installation or operation that are in violation of ch. NR 812, Wis. Adm. Code or in violation with the conditions of this approval, the approval will become void, as per s. NR 812.09(4), Wis. Adm. Code. It is the owner's responsibility to make any needed corrections to the well construction or the pump installation, or to any changes in operation or water usage.

2. In accordance with s. NR 812.09, Wis. Adm. Code; the wastewater treatment plant well shall be constructed at the location in the approval. The well driller shall determine accurate coordinates for the latitude and longitude of the well location with the use of a Global Positioning System

(GPS) unit and shall include these coordinates on the Well Construction Report. It remains the responsibility of the owner and the well driller to confirm that the well meets all setback distances required in ch. NR 812, Wis. Adm. Code.

3. In accordance with s. NR 812.03(1), Wis. Adm. Code, notice shall be provided to the department's District DNR contact, Jim Kasdorf, on the department work-day prior to commencing the construction of the well. Refer to the listed contact information above.

4. A chlorine residual shall be maintained in the drilling water during the entire drilling operation. (s. NR 812.12(11), Wis. Adm. Code)

5. Notice shall be provided to Jim Kasdorf on the department work-day prior to commencing the grouting operation. (s. NR 812.03(1), Wis. Adm. Code)

6. The water well driller or well constructor shall submit a well construction report to the well owner and to the department within 30 days following the date of completion of the well construction. (s. NR 812.10(11), Wis. Adm. Code)

7. If construction or installation of a wastewater treatment plant water system well has not commenced within 2 years of the approval date, the approval is void, as per s. NR 812.09(3), Wis. Adm. Code. After two years from the date of this approval letter, a new application must be made for the approval of the plans and specifications prior to commencing the construction of the wastewater treatment plant well.

8. The owner, well driller, and pump installer are required to determine if the new water line from the proposed well will cross or come close to any sewer lines. If this situation does occur, you are required to follow s. NR 812.32(4)(b), Wis. Adm. Code.

9. Back pressure on the water line from a submersible pump to the first pressure tank is required under s. NR 812.32(4)(a), Wis. Adm. Code. Check valves shall not be installed on the pump discharge pipe beyond a buried section of pipe between a well and a pressure tank.

10. In accordance with s. NR 812.22(6), Wis. Adm. Code, the well driller, his/her agent, or the well constructor shall collect water samples to be analyzed for coliform bacteria and nitrate from any new well.

11. S. NR 812.08 (4) Table A, Wis. Adm. Code, requires a 250-foot separation from a land disposal system and a private water supply well. The proposed well will temporarily be within 250 feet of the WWTP existing Cell No. 1. Once the WWTP improvements are complete, the proposed well shall be located a minimum of 250 feet from the new WWTP lagoon.

Appeal rights and other legal notices:

If you believe that you have a right to challenge this decision, you should know that Wisconsin Statutes and Administrative Rules establish time periods within which requests to review department decisions must be filed. For judicial review of a decision pursuant to Sections 227.52 and 227.53 of the State Statutes, you have 30 days after the decision is mailed, or otherwise served by the department, to file your petition with the appropriate circuit court and serve the petition on the department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

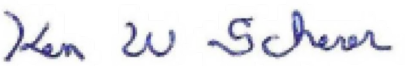
To request a contested case hearing pursuant to Section 227.42 of the State Statutes, you have 30 days after the decision is mailed, or otherwise served by the department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

All requests for contested case hearings must be made in accordance with section 227.42, Wis. Stats., and section NR 2.05(5), Wisconsin Administrative Code, and served on the Secretary in accordance with section NR 2.03, Wisconsin Administrative Code. Pursuant to Section NR 2.05(5), Wisconsin Administrative Code, and Section 227.42, Wis. Stats., you are required to include specific information demonstrating the following:

1. The substantial interest of the petitioner which is injured in fact or threatened with injury by department action or inaction:
2. That there is no evidence of legislative intent that this interest is not to be protected:
3. That the injury to the petitioner is different in kind or degree from the injury to the general public caused by the department action or inaction: and
4. That there is a dispute of material fact (you must specify the disputed fact).

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

For the Secretary



Ken W. Scherer, P.E.
Public Water Engineering Section
Bureau of Drinking Water and Groundwater

cc: Michael Pfankuch – Lauren Winchester Sanitary District
Tom Van de Yacht – Ground Source, Inc.
Jim Kasdorf – DNR, Milwaukee
Sara Fry – DNR, Green Bay
Marty Nessman – DNR, Madison

Attachments:

Aerial Location Map

Wisconsin Department of Safety and Professional Services
Division of Industry Services
4822 Madison Yards Way
PO Box 7302
Madison, WI 53707

Phone: 608-
Web: http://ds
Email: dsps@wisconsin.gov

Tony Evers, Governor
Dan Hereth, Secretary

12/29/2024

KEVIN SHUMANN
MARTENSON AND EISELE INC.
1377 MIDWAY ROAD
MENASHA, WISCONSIN 54952

Identification Numbers
Plan Review No.: CB-122400487-PRBH
Application No.: DIS-102449469
Site ID No.: SIT-138201
Please refer to all identification numbers in each correspondence with the Department.

CONDITIONAL APPROVAL

PLAN APPROVAL EXPIRES: 12/23/2026
CODE APPLIES: 10/30/2024

MUNICIPALITY:
TOWN OF CLAYTON
WINNEBAGO COUNTY

SITE:
LARSEN-WINCHESTER SAN. DIST. WWTP
GRANDVIEW ROAD
LARSEN, WI 54947

FOR:
GRANDVIEW ROAD

Building Name: Larsen-Winchester San Dist WWTP
Object Type: Building
Major Occupancy: U - Utility & Miscellaneous
Class of Construction: IIIB - Exterior Noncombustible Unprotected Construction
Building Review Type: New
Plan Type: Full/Complete Building
Total Floor Area in Sq Ft: 2,068
Sprinklered Type: None
Occupancy: None
Allowable Area Determined By: Unseparated Use
Structural Components Included in Review: None
Alteration Level: None

Building Name: Larsen-Winchester San Dist WWTP- HVAC
Object Type: HVAC
ID No.: Larsen-Winchester San Dist WWTP- HVAC
Total Floor Area in Sq Ft: 2,068

SITE REQUIREMENTS

- Contact both the State Inspector and the local municipality PRIOR to the start of construction.
- A full size copy of the approved plans, specifications and this letter shall be on-site during construction and open to inspection by authorized representatives of the Department, which may include local inspectors. If plan index sheets were submitted in lieu of additional full plan sets, a copy of this approval letter and index sheet shall be attached to plans that correspond with the copy on file with the Department. If these plans were submitted in an electronic form, the designer is responsible to download, print, and bind the full size set of plans along with our approval letter. A Department electronic stamp and signature shall be on the plans which are used at the job site for construction.

The following conditions shall be met during construction or installation and prior to occupancy or use:

SUBMIT:

- **SPS 361.30(3)** - Submit, prior to installation, one set of properly signed and sealed precast plans, calculations substantiating the design, and associated pertinent information including this transaction number or CB number as a previous transaction. A component plan submittal may be made on the DSPS website. Note as per SPS 302.31(1)(d)4. the fee for a structural component submitted after installation shall be an additional $250 and a $100 submittal fee.

REMINDERS:

- **IBC 2204.1/SPS 362.2204(1) -** The details of design, workmanship and technique for welding, inspection of welding, and qualifications of welding operators shall conform to the requirements of the specifications listed in IBC sections 2205, 2206, 2207, 2209 and 2210. Note: The rules pertaining to registration of structural welders are specified in ch. SPS 305. **Provide a licensed structural welder (as issued by the WI Dept. of Safety & Professional Services) for areas of the building where structural welding will occur.** The name of the worker and proof of licensure shall be made available to the Dept. representative upon request.
- **SPS 361.31(2)** - Lighting plans, including both Emergency Egress (IBC) & Energy Conservation (IECC), are no longer required to be submitted to the department for review and approval. However, the requirements in both codes must still be met. One (1) set of plans, calculations and/or fixture cut-sheets with all items stamped and signed by a WI registered professional as required by SPS 361.20 & 361.31(1) shall be on-site and made available to inspection by the Department or its authorized representative.
- **SPS 361.36(1)(a) & (b)** - The building shell shall be closed within two years of the initial approval date of this project. Also, this approval will expire three years after the date of initial approval of this project if the work covered by this approval is not completed and the building ready for occupancy within those three years.

The submittal described above has been reviewed for conformance with applicable Wisconsin Administrative Codes and Wisconsin Statutes. The submittal has been CONDITIONALLY APPROVED. The owner, as defined in chapter 101.01(10), Wisconsin Statutes, is responsible for compliance with all code requirements. Only those object types listed above have been approved; other submittals such as plumbing and those listed above under REQUIRED SUBMITTAL(S), may also be required.

All permits required by the state or the local municipality shall be obtained prior to commencement of construction/installation/operation. You are responsible for complying with state and federal laws concerning construction near or on wetlands, lakes, and streams.

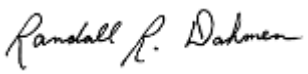
This plan has not been reviewed for compliance with fire code requirements, including those for fire lanes and fire protection water supply, so contact the local fire department for further information.

In granting this approval, the Division of Industry Services reserves the right to require changes or additions, should conditions arise making them necessary for code compliance. As per state stats 101.12(2), nothing in this review shall relieve the designer of the responsibility for designing a safe building, structure, or component. The Division does not take responsibility for the design or construction of the reviewed items.

Per s. SPS 361.40(4), projects for buildings of over 50,000 cubic feet total volume shall have supervising professionals who file compliance statements with this agency and the local code officials prior to occupancy of the project. Compliance statements shall be filed online at https://esla.wi.gov/PortalCommunityLogin.

Inquiries concerning this correspondence may be made to me at the contact information listed below, or at the address on this letterhead.

Sincerely,



Randall R. Dahmen, PE/MS
Commercial Building Code Consultant, Plan Reviewer & Inspector
Division of Industry Services
Phone: (608) 266-3162
Email: randy.dahmen@wisconsin.gov

cc:
BRIAN NOE, DIS COMMERCIAL BLDG INSPECTOR, 920-420-4796, BRIAN.NOE@WISCONSIN.GOV
KELSEY FAUST-KUBALE, MUNICIPAL CLERK, (920) 836-2007, CLERK@CLAYTONWINNEBAGOWI.GOV
SCOTT REIF, LARSEN-WINCHESTER SANITARY DISTRICT

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Oshkosh Service Center
625 E Cty Rd Y, Suite 700
Oshkosh, WI 54901

Tony Evers, Governor
Secretary
Telephone (920) 424-3050
Toll Free 1-888-936-7463
TTY Access via relay - 711

October 2, 2024

Scott Reif
Larsen Winchester Sanitary District Site
P.O. Box 85
Larsen WI 54947
Via email: scott@reifsauto.com

SUBJECT: Coverage Under WPDES General Permit No. WI-S067831-06: Construction Site Storm Water Runoff

Permittee Name: Larsen Winchester Sanitary District Site
Site Name: Larsen-Winchester Sanitary District- WWTP Improvements
FIN: 96095

Dear Permittee:

The Wisconsin Department of Natural Resources received your Water Resources Application for Project Permits or Notice of Intent, on September 30, 2024, for the Larsen-Winchester Sanitary District- WWTP Improvements site and has evaluated the information provided regarding storm water discharges from your construction site. We have determined that your construction site activities will be regulated under ch. 283, Wis. Stats., ch. NR 216, Wis. Adm. Code, and in accordance with Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit No. WI-S067831-06, Construction Site Storm Water Runoff. All erosion control and storm water management activities undertaken at the site must be done in accordance with the terms and conditions of the general permit.

The **Start Date** of permit coverage for this site is October 02, 2024. The maximum period of permit coverage for this site is limited to 3 years from the **Start Date**. Therefore, permit coverage automatically expires and terminates 3 years from the Start Date and storm water discharges are no longer authorized unless another Notice of Intent and application fee to retain coverage under this permit or a reissued version of this permit is submitted to the Department 14 working days prior to expiration.

A copy of the general permit along with extensive storm water information including technical standards, forms, guidance and other documents is accessible on the Department's storm water program Internet site. To obtain a copy of the general permit, please download it and the associated documents listed below from the following Department Internet site: **http://dnr.wi.gov/topic/stormwater/construction/forms.html**

- Construction Site Storm Water Runoff WPDES general permit No. WI-S067831-06
- Construction site inspection report form
- Notice of Termination form

If, for any reason, you are unable to access these documents over the Internet, please contact me and I will send them to you.

To ensure compliance with the general permit, please read it carefully and be sure you understand its contents. Please take special note of the following requirements (This is not a complete list of the terms and conditions of the general permit.):

1. The Construction Site Erosion Control Plan and Storm Water Management Plan that you completed prior to submitting your permit application must be implemented and maintained throughout construction. Failure to do so may result in enforcement action by the Department.

2. The general permit requires that erosion and sediment controls be routinely inspected at least every 7 days, and within 24 hours after a rainfall event of 0.5 inches or greater. Weekly written reports of all inspections must be maintained. The reports must contain the following information:

a. Date, time, and exact place of inspection;
b. Name(s) of individual(s) performing inspection;
c. An assessment of the condition of erosion and sediment controls;
d. A description of any erosion and sediment control implementation and maintenance performed;
e. A description of the site's present phase of construction.

3. A **Certificate of Permit Coverage** must be posted in a conspicuous place on the construction site. The Certificate of Permit Coverage (WDNR Publication # WT-813) is enclosed for your use.

4. When construction activities have ceased and the site has undergone final stabilization, a Notice of Termination (NOT) of coverage under the general permit must be submitted to the Department.

It is important that you read and understand the terms and conditions of the general permit because they have the force of law and apply to you. Your project may lose its permit coverage if you do not comply with its terms and conditions. The Department may also withdraw your project from coverage under the general permit and require that you obtain an individual WPDES permit instead, based on the Department's own motion, upon the filing of a written petition by any person, or upon your request.

If you believe that you have a right to challenge this decision to grant permit coverage, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with s. NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with s. NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

Thank you for your cooperation with the Construction Site Storm Water Discharge Permit Program. If you have any questions concerning the contents of this letter or the general permit, please contact Susan Larson at (920) 366-2881.

Sincerely,



Susan Larson
Northeast Region
Storm Water Management Specialist

ENCLOSURE: Certificate of Permit Coverage

Cc: Mary Jo Miller, Martenson & Eisele, Inc.

CERTIFICATE OF PERMIT COVERAGE

UNDER THE
WPDES CONSTRUCTION SITE STORM WATER RUNOFF PERMIT
Permit No. WI-S067831-06

Under s. NR 216.455(2), Wis. Adm. Code, landowners of construction sites with storm water discharges regulated by the Wisconsin Department of Natural Resources (WDNR) Storm Water Permit Program are required to post this certificate in a conspicuous place at the construction site. This certifies that the site has been granted WDNR storm water permit coverage. The landowner must implement and maintain erosion control practices to limit sediment-contaminated runoff to waters of the state in accordance with the permit.

EROSION CONTROL COMPLAINTS

should be reported to the WDNR Tip Line at

1-800-TIP-WDNR (1-800-847-9367)

Please provide the following information to the Tip Line:

WDNR Site No. (FIN): 96095

Site Name: Larsen-Winchester Sanitary District- WWTP Improvements

Address/Location: PT S1/2 SW1/4 COM POB IN D366990 S8DG57E 122.78 FT S10DEG31E 207.7FT S12DG20E 97.13 FT S13DG38 Town of CLAYTON

Additional Information:

Landowner: Larsen Winchester Sanitary District Site

Landowner's Contact Person: Scott Reif

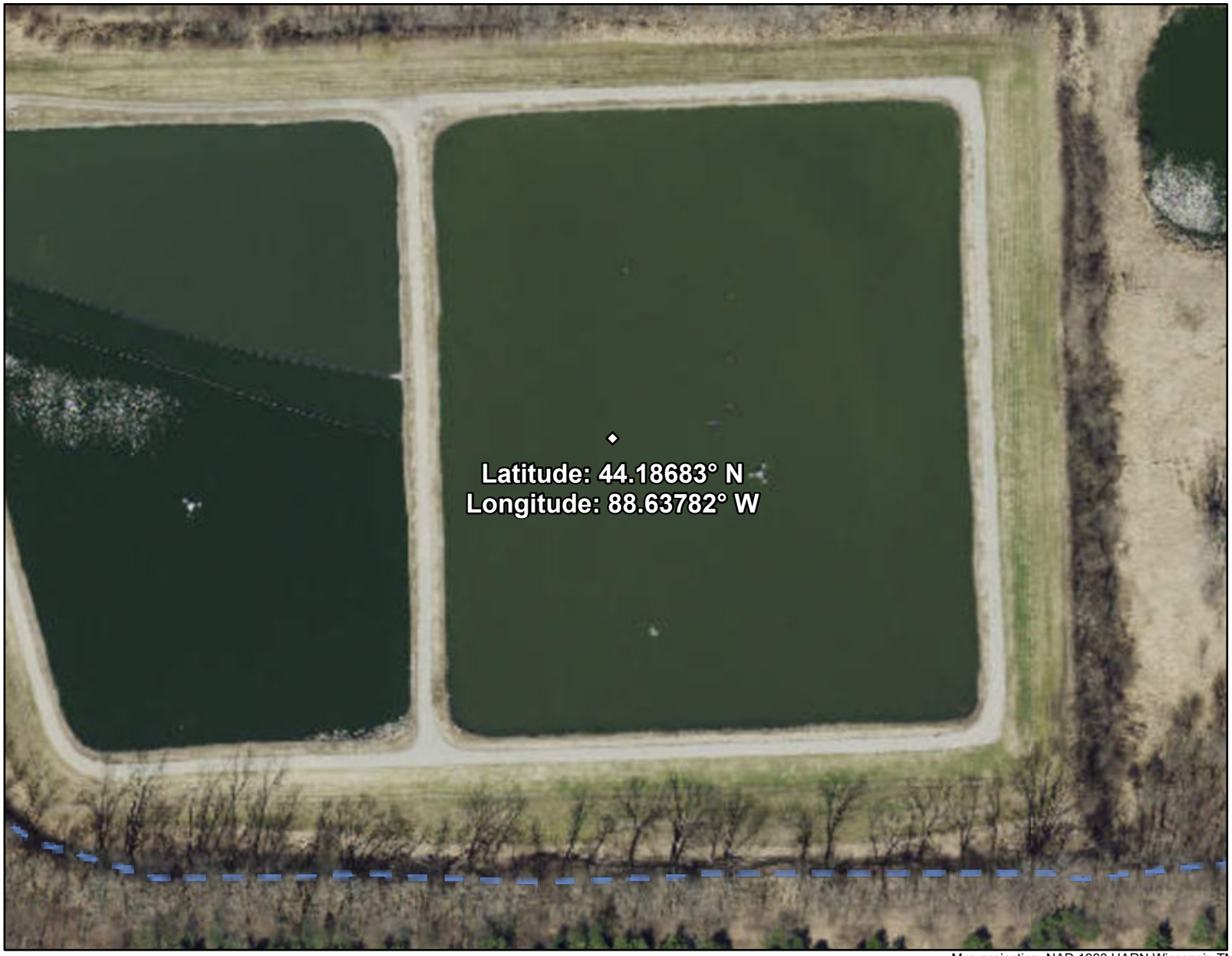
Contact Telephone Number: (920) 850-1405

Permit Start Date: October 02, 2024 **By:**

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Lauren Winchester SD WWTP well

Item B.



Legend: (some map layers may not be displayed)

Notes:

Map projection: NAD 1983 HARN Wisconsin TM

N

Map: 0 110 220 Feet
0 30 60 Meters

Service Layer Credits:
Public Water Supply Wells: Wisconsin Department of Natural Resources, EN Image Basemap Latest Leaf Off Raster Tile: , Groundwater Withdrawal Locations: WDNR/DG/WaterUse, DG_SW_Water_Use_Points_WTM_Int: Robert Smail, DG Spring Locations: Wisconsin Department of Natural Resources, Terrain: Wi DNR, Cities, Roads, and Waterways:



This map is a product generated by a DNR web mapping application.

This map is for informational purposes only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. The user is solely responsible for verifying the accuracy of information before using for any purpose. By using this product for any purpose user agrees to be bound by all disclaimers found here:https://dnr.wisconsin.gov/legal.

Date Printed: 1/9/2025 11:53 AM

*** THIS IS NOT A BUILDING PERMIT - CONTACT YOUR LOCAL TOWNSHIP TO DETERMINE IF OTHER PERMITS ARE REQUIRED ***

IT IS UNLAWFUL TO COMMENCE WORK BEFORE THIS PERMIT IS PLACED IN A CONSPICUOUS PLACE ON THE PREMISES

WINNEBAGO COUNTY

Erosion Control Permit

IN COMPLIANCE WITH THE WINNEBAGO COUNTY ZONING ORDINANCE

GRADE REQUIREMENTS

THE FINISHED GRADE SHALL BE 12 INCHES ABOVE THE CROWN OF THE ROAD UNLESS AN ALTERNATE GRADE IS APPROVED BY THE ZONING INSPECTOR.

SPECIAL INSTRUCTIONS

DRAINAGE TO BE DONE ACCORDING TO APPROVED PLAN. IF NO PLAN WAS REQUIRED, NO RUNOFF FROM CONSTRUCTION OR GRADING SHALL ADVERSELY AFFECT OTHER PROPERTIES.

BE ADVISED

FAILURE TO COMPLY WITH ATTACHED CONDITIONS MAY RESULT IN THE ISSUANCE OF A CITATION, POSTING OF A STOP WORK ORDER AND/OR REVOCATION OF PERMIT

NOTE: THIS PERMIT SHALL EXPIRE ONE YEAR FROM DATE OF ISSUANCE UNLESS SUBSTANTIAL WORK HAS COMMENCED.

PERMIT NO: 505758 **DATE ISSUED: 10/11/2024**

HAS BEEN ISSUED TO:

LARSEN WINCHESTER SANT

FOR THE FOLLOWING WORK:

Upgrade Wastewater Treatment Plant & Construction of Control Building.

PROPERTY LOCATED AT:

4861 GRANDVIEW RD LARSEN, WI 54947

SEC. 19 T.20 N. R. 16 E. TOWN OF: Town of Clayton

PLAT:
LOT:

PARCEL ID: 006-051501

Matthew Goldthwaite

ZONING OFFICER: GOLDTHWAITE, MATTHEW

Permittee Obligations:

All on-site waste shall be disposed of properly.
Clean up sediment carried off-site by end of workday.
Concrete wash must be disposed of properly.
Ditch checks are required.
Drainage from the site shall not impact neighboring properties.
Establish vegetation as soon as possible.
Locate soil stockpiles on high ground, away from drainage/water courses/inlets.
Maintain erosion control practices until vegetation established.
Minimize land disturbance.
Perform maintenance as required.
Perimeter controls required (silt fence/straw bales/vegetative buffer).
Protect soil stockpiles (seed/mulch/silt fence/tarp/trench).
Road surfaces must be cleaned by end of workday.
Site is complete/stable with > 90% vegetation.
Tracking pad required (minimum 7' x 50' x 1' of 3-6: clear stone).

WINNEBAGO COUNTY EROSION CONTROL and STORMWATER MANAGEMENT APPLICATION FORM

Zoning: (920) 232-3344 112 Otter Ave., PO Box 2808, Oshkosh WI 54903-2808

WINNEBAGO COUNTY OCT 08 2024 ZONING DEPARTMENT

e-mailed:

OWNER

(must be owner's name of record)

Name: Scott Reif, Larsen Winchester Sanitary District President

Address: P.O. Box 85

City: Larsen State: WI Zip: 54947

Telephone: Home ( ) Cell (920) 850-1405

E-mail: scott@reifsauto.com

TYPE OF REQUEST

- (●) Erosion Control
  - (●) Single Parcel
  - ( ) General Permit (for Municipality/Utility permits only)
- ( ) Stormwater Permit
  - Commercial
  - Industrial
  - Subdivision

Project Start Date: May 1, 2025

Estimated End Date: July 1, 2026 (This time frame should include the completed landscaping)

SEND PERMIT TO: [✓] Owner by: [✓] E-mail [ ] Mail; [✓] Applicant by: [✓] E-mail [ ] Mail

APPLICANT

Name/Co.: Mary Jo Miller, P.E., Martenson & Eisele, Inc.

Address: 1377 Midway Road, P.O. Box 449

City: Menasha State: WI Zip: 54952

Telephone: Home (920) 731-0381

Cell (920) 203-0865

E-Mail: maryjom@martenson-eisele.com

SITE LOCATION

STOP - if this property does not have an address assigned by **OUR** office, complete the on-line Address Request Application prior to submitting this application.

Address: 4861 Grandview Road, Larsen, WI 54947

Parcel No. 006051501 Town of: Clayton

Plat/CSM _____ Lot # _____ Lot Size: 22.75 Sec: 19 T: 20N R: 16E

Describe type of proposed project (new home, shed, etc.), work to be done and provide a description and location of erosion control measures.

The proposed project involves an upgrade to the existing Larsen Winchester Sanitary District Wastewater Treatment Plant. The existing stabilization pond system will be abandoned, and will be replaced with a Lemna Lemtec system, that will include covered aerobic treatment cells constructed in earthen basins. A control building is to be constructed to house additional treatment and electrical components, and an office. Erosion control will include a tracking pad, silt fence, erosion control matting and ditch checks.

(Site plan must include setbacks and all dimensions of the building/project - see attached instructions)

APPLICANT/OWNER ACKNOWLEDGEMENT

FAILURE TO PROVIDE ALL REQUIRED MATERIALS AND INFORMATION COULD RESULT IN THE REVIEW OF THIS APPLICATION BEING DELAYED FOR CONSIDERATION:

[ ] For new home construction, the Winnebago County Zoning Dept. must be contacted for an inspection, *within **one business day** of initial disturbance of land*, at **(920) 232-3344** OR by email to: zoningdepartment@co.winnebago.wi.us.

[✓] I understand that the conditions of the permit are minimum requirements and that, upon site inspection further measures may be required for compliance within the ordinance.

[✓] I understand that all required erosion control measures shall be maintained as described in the permit plan until the Winnebago County Zoning Dept. approves their removal.

[✓] I further grant the right-of-entry to the property, as described under "Site Location", to personnel designated by the County, for the purpose of inspecting and monitoring compliance with the ordinance(s).

[✓] I have reviewed *Section 23.15 of the Winnebago County Zoning Ordinance* regarding erosion control & stormwater management and agree to comply with the requirements of the ordinance.

[✓] In accordance with Wisconsin State Statute 59.691, the information provided herein is to give you notice regarding potential wetlands. You are responsible for complying with state and federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open waters can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources Wetland Identification web page at: http://dnr.wi.gov/topic/surfacewater/swdv/ or contact your local DNR office. As the applicant, I hereby acknowledge notice of this wetland information.

Mary Jo Miller Date: 9/16/2024

ORIGINAL INK Signature of Owner/Applicant/Agent

OFFICE USE ONLY

Fee Recv'd $ 240.00 Date 10-8-24 Permit # 505758

Type EC Issued Date 10-11-2024 32846

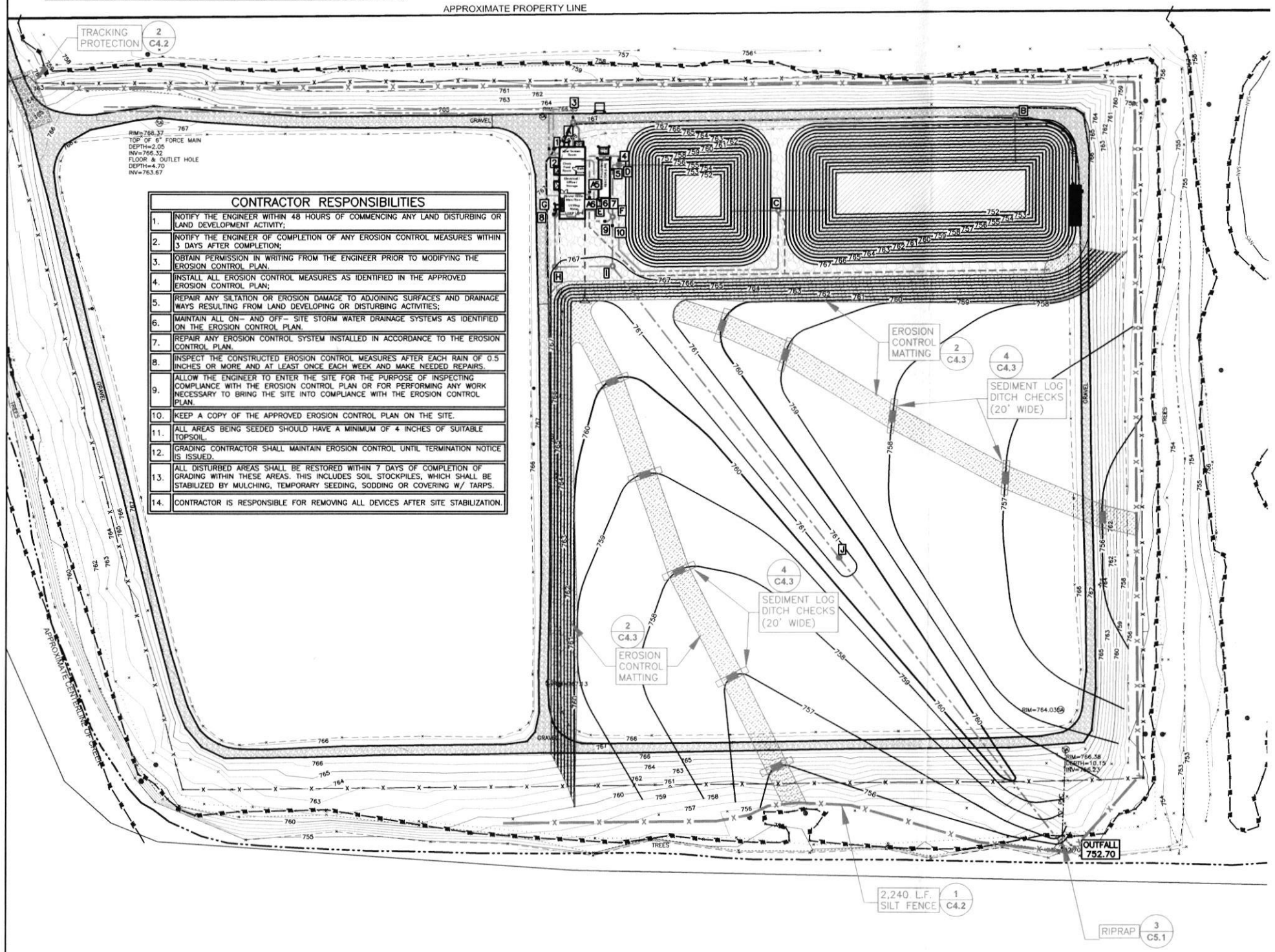
Issued by: Matt Goldthwaite

Complete and PRINT form. Submit application with **ORIGINAL INK SIGNATURE, SITE PLAN** and fees to our office in person or by mail. **DO NOT E-MAIL**

EROSION CONTROL PLAN

EROSION CONTROL NOTES

1.	THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON THIS PLAN PRIOR TO ANY CONSTRUCTION INCLUDING STRIPPING TOPSOIL.
2.	THE CONTRACTOR SHALL MAINTAIN SAID EROSION CONTROL DEVICES UNTIL THE COMPLETION OF HIS CONTRACT AND SHALL NOT REMOVE THE EROSION CONTROL DEVICES UNTIL VEGETATION IS ESTABLISHED.
3.	THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS THAT WILL NOT BE PAVED WITH MINIMUM 4" TOPSOIL, FERTILIZER, SEED AND MULCH OR EROSION CONTROL MATTING.
4.	THE CONTRACTORS SHALL PREVENT TRACKING ON EXISTING STREETS. ANY SEDIMENT TRACKED ONTO EXISTING STREETS SHALL BE CLEANED UP DAILY.
5.	INSTALLATION AND MAINTENANCE OF EROSION CONTROL SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
6.	SILT FENCES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS SOON AS WORK IS COMPLETE IN THAT AREA.



CONTRACTOR RESPONSIBILITIES

1.	NOTIFY THE ENGINEER WITHIN 48 HOURS OF COMMENCING ANY LAND DISTURBING OR LAND DEVELOPMENT ACTIVITY;
2.	NOTIFY THE ENGINEER OF COMPLETION OF ANY EROSION CONTROL MEASURES WITHIN 5 DAYS AFTER COMPLETION;
3.	OBTAIN PERMISSION IN WRITING FROM THE ENGINEER PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
4.	INSTALL ALL EROSION CONTROL MEASURES AS IDENTIFIED IN THE APPROVED EROSION CONTROL PLAN;
5.	REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPING OR DISTURBING ACTIVITIES;
6.	MAINTAIN ALL ON- AND OFF- SITE STORM WATER DRAINAGE SYSTEMS AS IDENTIFIED ON THE EROSION CONTROL PLAN.
7.	REPAIR ANY EROSION CONTROL SYSTEM INSTALLED IN ACCORDANCE TO THE EROSION CONTROL PLAN.
8.	INSPECT THE CONSTRUCTED EROSION CONTROL MEASURES AFTER EACH RAIN OF 0.5 INCHES OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE NEEDED REPAIRS.
9.	ALLOW THE ENGINEER TO ENTER THE SITE FOR THE PURPOSE OF INSPECTING COMPLIANCE WITH THE EROSION CONTROL PLAN OR FOR PERFORMING ANY WORK NECESSARY TO BRING THE SITE INTO COMPLIANCE WITH THE EROSION CONTROL PLAN.
10.	KEEP A COPY OF THE APPROVED EROSION CONTROL PLAN ON THE SITE.
11.	ALL AREAS BEING SEEDED SHOULD HAVE A MINIMUM OF 4 INCHES OF SUITABLE TOPSOIL.
12.	GRADING CONTRACTOR SHALL MAINTAIN EROSION CONTROL UNTIL TERMINATION NOTICE IS ISSUED.
13.	ALL DISTURBED AREAS SHALL BE RESTORED WITHIN 7 DAYS OF COMPLETION OF GRADING WITHIN THESE AREAS. THIS INCLUDES SOIL STOCKPILES, WHICH SHALL BE STABILIZED BY MULCHING, TEMPORARY SEEDING, SODDING OR COVERING W/ TARPS.
14.	CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEVICES AFTER SITE STABILIZATION.

GENERAL NOTES

1.	SITE DEWATERING (TECH. STD. 1061): WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROLS DESIGNED FOR THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS. (NOT ANTICIPATED)
2.	WASTE AND MATERIAL DISPOSAL: ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED BY RUNOFF INTO A RECEIVING CHANNEL OR STORM SEWER SYSTEM.
3.	TRACKING (TECH. STD. 1057): THIS SITE SHALL STABILIZE THE EXISTING DRIVE WITH 3" TO 6" (12" THICK) CLEAR AGGREGATE SUFFICIENT TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROAD WAYS AS APPROVED BY THE DIRECTOR. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. FLUSHING MAY NOT BE USED UNLESS THE SEDIMENT WILL BE CONTROLLED BY A FILTER FABRIC BARRIER, SEDIMENT TRAP, SEDIMENT BASIN OR EQUIVALENT. TRACKING PAD DIMENSIONS ARE SHOWN ON THE EROSION CONTROL PLAN (24'X50' MIN).
4.	EROSION MATTING (TECH. STD. 1052 & 1053): EROSION MATTING SHALL BE INSTALLED AFTER TOPSOIL IS PLACED AND SEEDING IS COMPLETE. MATERIAL LABELS AND MANUFACTURER INSTALLATION INSTRUCTIONS SHALL BE RETAINED UNTIL THE SITE HAS BEEN STABILIZED. IF THERE ARE SIGNS OF RILLING OR FAILURE, MORE STAPLES AND/OR ANCHORING TRENCHES SHALL BE INSTALLED. IF RILLING OR FAILURE PERSISTS, IMPACTED AREAS SHALL BE FILLED, RE-SEEDED AND MULCHED. CLASS I OR CLASS II – TYPE B PRODUCTS THAT INCORPORATE PHOTO- OR BIO-DEGRADABLE NETTING SHALL NOT BE INSTALLED AFTER SEPTEMBER 1ST OF ANY GIVEN YEAR.
5.	SEDIMENT CLEANUP: ALL 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 OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF LAND DISTURBING ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORK DAY.
6.	DISTURBANCE TIMING: ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. EXISTING VEGETATION SHALL BE MAINTAINED AS LONG AS POSSIBLE.
7.	DUST CONTROL (TECH. STD. 1068): DUST MANAGEMENT CONTROL PRACTICES SHALL BE INSTALLED AS NEEDED. RECOMMENDED DUST CONTROL MEASURES INCLUDE: MINIMIZING SOIL DISTURBANCE; APPLYING MULCH AND ESTABLISHING VEGETATION; WATER SPRAYING; SURFACE ROUGHENING; APPLYING ADDITIVES; SPRAYING TACKIFIERS; AND INSTALLING BARRIERS. A COMBINATION OF MEASURES FOR DUST CONTROL MAY BE REQUIRED. IMPLEMENTATION SHALL FOLLOW WDNR TECHNICAL STANDARD 1068. PETROLEUM BASED PRODUCTS SHALL NOT BE USED FOR DUST CONTROL.

EROSION CONTROL PLAN KEY LEGEND

- 1 SILT FENCE — 1 C4.2
- 2 TRACKING PROTECTION — 2 C4.2
- 3 INLET PROTECTION TYPES A,B,C, & D — 3 C4.2
- 4 INLET PROTECTION TYPE D-M — 4 C4.2
- 5 INLET PROTECTION TYPE D-HR — 5 C4.2
- 6 SANDBAG CULVERT PIPE DITCH CHECK — 6 C4.2
- 7 DEWATERING DETAIL — 7 C4.2
- 8 EROSION CONTROL MAT DETAIL (CLASS 2, TYPE A) — 1 C4.3
- 9 EROSION CONTROL MAT DETAIL (CLASS 1, TYPE B) — 2 C4.3
- 10 SEDIMENT LOG INLET PROTECTION — 3 C4.3
- 11 SEDIMENT LOG CHANNEL DITCH CHECK — 4 C4.3

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1-1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1-1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- ( ) RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- SOIL BORING
- OHOH OVERHEAD POWER LINES
- UGE UNDERGROUND ELECTRIC
- UGT UNDERGROUND TELEPHONE
- FIBER UNDERGROUND FIBEROPTIC
- UGG UNDERGROUND GAS
- CATV UNDERGROUND CABLE TV
- EXIST. FENCE LINE
- SIGN
- POWER POLE
- GUY
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- CABLE PEDESTAL
- EXIST. HYDRANT
- WATER VALVE
- WATER STOP BOX
- GAS VALVE
- EXIST. STORM MANHOLE
- STORM INLET
- YARD DRAIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- 000.00 EXIST. SPOT ELEVATION
- 000 CONTOUR W/ ELEVATION
- 000.00tc EXIST. TOP OF CURB ELEV.
- 000.00fl EXIST. FLOW LINE ELEV.
- FF = 000.00 FIRST FLOOR = 000.00
- TOPSOIL DEPTH
- INFILTRATION SOIL BORING

NOT FOR CONSTRUCTION

0 50 100
SCALE IN FEET
N

Martenson & Eisele, Inc.
Planning
Environmental
Surveying
Engineering
Architecture
1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

DRAWN BY	CHECKED	APPROVED	FIELDWORK
CRC	JJR	MJM	JPS

NO.	DATE	BY	DESCRIPTION**
1	06/11/24	MJM	REVISION PER COMMENTS

REFER TO COVER SHEET FOR REVISION DESCRIPTIONS

EROSION CONTROL PLAN
LARSEN WINCHESTER SANITARY DISTRICT
WWTP IMPROVEMENTS
TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

COMPUTER FILE
Civil3D\Eng\1-0049-029de.dwg

DRAWING NO.
C4.1

PRELIMINARY
NOT FOR CONSTRUCTION

SITE PLAN - ZOOMED IN

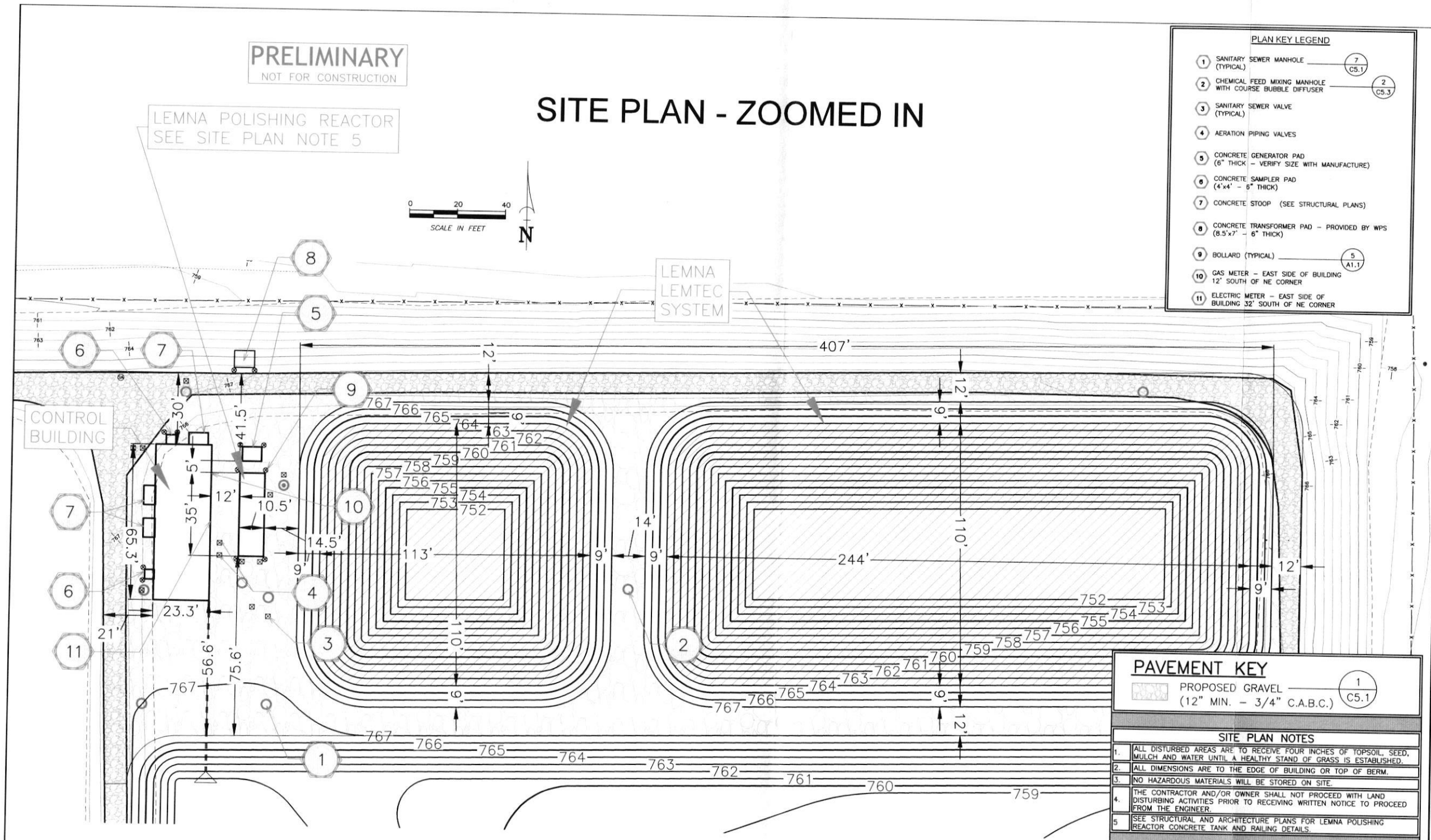
LEMNA POLISHING REACTOR
SEE SITE PLAN NOTE 5

LEMNA
LEMTEC
SYSTEM

CONTROL
BUILDING

SCALE IN FEET 0 20 40

N



PLAN KEY LEGEND

1. SANITARY SEWER MANHOLE (TYPICAL) — 7 / C5.1
2. CHEMICAL FEED MIXING MANHOLE WITH COURSE BUBBLE DIFFUSER — 2 / C5.3
3. SANITARY SEWER VALVE (TYPICAL)
4. AERATION PIPING VALVES
5. CONCRETE GENERATOR PAD (6" THICK – VERIFY SIZE WITH MANUFACTURE)
6. CONCRETE SAMPLER PAD (4'x4' – 6" THICK)
7. CONCRETE STOOP (SEE STRUCTURAL PLANS)
8. CONCRETE TRANSFORMER PAD – PROVIDED BY WPS (8.5'x7' – 6" THICK)
9. BOLLARD (TYPICAL) — 5 / A1.1
10. GAS METER – EAST SIDE OF BUILDING 12' SOUTH OF NE CORNER
11. ELECTRIC METER – EAST SIDE OF BUILDING 32' SOUTH OF NE CORNER

PAVEMENT KEY

PROPOSED GRAVEL (12" MIN. – 3/4" C.A.B.C.) — 1 / C5.1

SITE PLAN NOTES

1. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
2. ALL DIMENSIONS ARE TO THE EDGE OF BUILDING OR TOP OF BERM.
3. NO HAZARDOUS MATERIALS WILL BE STORED ON SITE.
4. THE CONTRACTOR AND/OR OWNER SHALL NOT PROCEED WITH LAND DISTURBING ACTIVITIES PRIOR TO RECEIVING WRITTEN NOTICE TO PROCEED FROM THE ENGINEER.
5. SEE STRUCTURAL AND ARCHITECTURE PLANS FOR LEMNA POLISHING REACTOR CONCRETE TANK AND RAILING DETAILS.

TOPOGRAPHIC LEGEND

- 1" x 18" IRON PIPE SET
- 1-1/4" x 30" REBAR SET
- CHISELED "X" SET
- 3/4" REBAR FOUND
- 1" IRON PIPE FOUND
- 1-1/4" REBAR FOUND
- 2" IRON PIPE FOUND
- CHISELED "X" FOUND
- GOVERNMENT CORNER
- ( ) RECORDED AS
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXIST. WOODS LINE
- WETLANDS
- SOIL BORING
- OVERHEAD POWER LINES
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND FIBEROPTIC
- UNDERGROUND GAS
- UNDERGROUND CABLE TV
- DIST. FENCE LINE
- SIGN
- POWER POLE
- GUY
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC PEDESTAL
- CABLE PEDESTAL
- DIST. HYDRANT
- WATER VALVE
- WATER STOP BOX
- GAS VALVE
- EXIST STORM MANHOLE
- STORM INLET
- YARD DRAIN
- EXIST SANITARY MANHOLE
- EXIST. SAN. SEWER
- EXIST. STO. SEWER
- EXIST. WATER MAIN
- 000.00 EXIST. SPOT ELEVATION
- 000 CONTOUR W/ ELEVATION
- 000.00s EXIST. TOP OF CURB ELEV.
- 000.00fl EXIST. FLOW LINE ELEV.
- FF = 000.00 FIRST FLOOR = 000.00
- TOPSOIL DEPTH
- INFILTRATION SOIL BORING

NOT FOR CONSTRUCTION

Martenson & Eisele, Inc.
Planning
Environmental
Surveying
Engineering
Architecture
1377 Midway Road
Menasha, WI 54952
www.martenson-eisele.com
info@martenson-eisele.com
920.731.0381 1.800.236.0381

DRAWN BY	CHECKED	APPROVED	FIELDWORK
CRC	JJR	MJM	JFS

REFER TO COVER SHEET FOR REVISION DESCRIPTIONS

NO.	DATE	NO.	DATE	NO.	DATE
1	08/11/24				

SITE PLAN - ZOOMED IN
LARSEN WINCHESTER SANITARY DISTRICT
WWTP IMPROVEMENTS

TOWN OF CLAYTON, WINNEBAGO COUNTY, WISCONSIN

SCALE	DATE
BAR SCALE	05-06-2024

COMPUTER FILE
Civil3D\Engl\1-0049-029de.dwg

DRAWING NO.
C1.3

MEMORANDUM

Business Item C & D

From: Administrator/Staff
To: Plan Commission
Re: Plan Commission review & recommendation on a Re-zoning Application submitted by Trident Holdings, LLC on behalf of the Town of Clayton requesting approval to re-zone approximately 8.17 acres of Tax ID #006-0340-03-01 (immediately West of 9023 Clayton Ave) from A-2 (General Agriculture District) to B-2 (Community Business District).

AND

Plan Commission review & recommendation on a Site Plan Review Application submitted by Trident Holdings, LLC for a proposed commercial business development building located on Tax ID #006-0340-03-01 (immediately West of 9023 Clayton Ave) from A-2 (General Agriculture District) to B-2 (Community Business District).

Please see the below comments from Code Administrator Kamke:

For the Rezone request: The amendment is consistent with the Town's comprehensive plan, specifically the Future Land Use map, which identifies this area as "Business Park" use. The lot and building structures proposed in the Site Plan review conform to all dimensional standards that apply to the B-2 Community Business district. The Rezone request must be approved before the Site Plan Review for Phase 1 of the project can be considered.

After reviewing the Site Plan application materials, most of the ordinance standards are met with this proposal. **The standards NOT met, or standards asking for alternative compliance include:**

1. An insufficient number of parking stalls are proposed. As this is Phase 1 of the project and future development would remove some of these "temporary" spots and add new permanent stalls, the Plan Commission may see fit to allow this shortfall since future development may resolve the issue.
2. Landscaping plans around the building do not meet the minimum requirements but may be granted under the alternative compliance provisions.
3. Lighting fixtures proposed appear to exceed the maximum light levels that can be emitted per ordinance.
4. Exterior building materials are proposed to be metal paneling, which is not directly listed as an approved material but may be allowed.

Background information:
Parcel ID #006-0340-03-01 contains 8.17 acres and is located between American Drive and US HWY 10. The land is currently zoned A-2 (General Agriculture District). Proposed zoning is B-2 (Community Business District) meant to accommodate land and small-scale pedestrian and auto-oriented development. Must have public sanitary sewer or POWTS. Structures in this district are required to be set back 7-10 feet from side yards and 25 feet from front lot lines / ROW. Buildings must not exceed 35ft in height, and be at least 7ft from side lot lines. Tier 1 Urbanizing standards apply to this property.

Land is outside mapped floodplain, has no shoreland zoning jurisdiction, and has no delineated wetlands per DNR records. The land is not under any airport zoning regulations.

The Town's Future Land Use map as part of the Comprehensive Plan does indicate this area of the Town as intended for Business Park development. This proposal cohesively fits into that plan.

Parking regulations do not meet ordinance standards. Plans indicate 37 outdoor stalls (2 set aside as handicap accessible) are proposed for phase 1 with additional stalls "available within the building spaces" to meet the minimum of 40 spaces. The ordinance requires 1 space for every 300 sq.ft. of gross floor area and a maximum number of stalls not to exceed that minimum by more than 15%. Floor area proposed in this site plan is 12,000, meaning 40 stalls is the minimum and not to exceed 46 stalls. Proposed stall dimensions vary between 9ft wide and 10ft wide, and 20ft deep, meeting the ordinance minimums of 9ft x 8ft. The #22 on page 1 under General Notes needs to be updated to reflect 46 stalls as the maximum, and show actual number of proposed stalls.

Not shown on the plans but required by ordinance for those two accessible stalls are signage identifying them by the international symbol of accessibility mounted on a vertical pole at least 6ft in height.

Parking stalls near the south side of the property do not meet the required 25ft setback for structures from rear lot lines.

Of the landscaping design standards as listed in Attachment E, buffer yard and ground sign standards do not apply. Any signage proposed in the future must be applied for under separate zoning application(s).

For parking lot landscape design standards, Page 1 of the plans shows the proposed area of the parking lot to be 21,867sqft. 15% is 3,280sqft, which is the minimum area that must be within 10ft of the parking area perimeter. Parking spaces are to be separated by planting islands or peninsulas, with one planted area for each 12 spaces in a row. The parking configuration has 14 spaces in a row with no island or peninsula. **Commissioners should decide if this situation (not sufficient parking per ordinance requirements) allows the planting island peninsulas to be excluded from this approval, under the alternative compliance landscape plan provisions.** Alternative compliance means it is not a variance, waiver, or departure from ordinance standards.

Parking Lot Screening applies since the property is within 100ft of a parcel that has a single-family residential use. The existing vegetation on the north side of the property, to the west of the proposed driveway, is proposed to be kept as-is and not changed. A condition is suggested to monitor this part of the proposal and determine if the existing vegetation will be sufficient. Lot screening applies. Per plans, the existing wooded area provides points to satisfy the tree requirements. The proposal includes plans for shrubs to be installed exceeding minimum ordinance requirements.

Building and Grounds landscape design standards applies. The applicant would like to use the alternative compliance landscape plan provisions. On the proposal, 260 linear feet of the building are concealed by existing vegetation (east and south aspects). Plans indicate 160 linear feet of new landscaping for a total of 420 linear feet of vegetated building screening. While this number meets and exceeds the minimum of 390 linear feet, **only 160ft of it (the new) meets ordinance requirements for “wood or stone mulch” landscaping. No dimensions are provided of those mulch areas to verify they meet the minimum of 6ft wide from the building façade.** The Plan Commission may recommend allowing the east and south faces to qualify under this standard by applying the alternative compliance landscape plan provisions, as allowing existing mature vegetation to replace new stone/mulch areas may

provide better shading effects and screening impacts from the highway and Town roads, which is the intent of these ordinance provisions.

Building design standards:
Structures are proposed to be 10 feet from nearest side lot line and 38 feet at nearest point to the front lot line / road ROW. **These meet minimum requirements for the zoning district.**

Lighting:
Ordinance requires that for non-residentially zoned properties, the maximum light levels that can be emitted shall not exceed 2 .0 footcandles. In lumens / square meter, this is 21.5. The proposed lighting for the west side of the building lists 7922 lumens per lamp, and the proposed lighting for the east side of the building lists 751 lumens per lamp. Even if the property would be considered as "on a public road right-of-way", that would only grant up to 161 lumen/m^2. While these lamps are both compliant with Dark Sky requirements, they **exceed the Town's ordinance for maximum light levels being listed in 9.08-210(c).**

Architectural design standards for Tier 1:
Ordinance requires that acceptable building materials must cover 75% or more of all exterior wall surfaces. The proposal is for 95%+ of the building to be covered by 29-gauge metal wall panels, with a small portion (360sqft) of the building exterior proposed to have a stone veneer. The proposal is for the color bright white, which has an SRI of 83. **While the metal panels are not listed as acceptable materials, the Town Board may approve them as such, per Attachment C A. (1) (d). The Plan Commission also has the discretion to decrease the percentages if the area is deemed to be of limited exposure to the general public, so long as the intent of the provision is maintained**. Limitations to public view may be added, in the forms of additional landscaping, screening, etc.

Roofing materials must be from the acceptable list. Proposal is for architectural metal panels in color zinc grey, with SRI of 46; this **meets the minimum requirements of 29 or higher.**

Horizontal design standards:
Driveway proposal meets the standards in Attachment B, A. (1).
Stormwater is proposed to utilize existing swales on Town land to the east of property.
Potable water and wastewater plans - property is within the boundary of the Clayton Sanitary District No. 1. and connection would be required for both water and sewer.

Staff Recommendation & Suggested Conditions:

For the Re-zoning application:

1. The Rezone request must be approved before the Site Plan Review for Phase 1 of the project can be considered.

For the Site Plan application:
1. Existing screening of the parking area to be evaluated. If it is not sufficient, plantings or an earthen berm as provided in Attachment E shall be installed within six (6) months from Phase 1 building and parking lot completion, as measured by the date of occupancy permit being issued.

2. Lighting fixtures must be revised to meet the ordinance requirements on maximum light levels. (Scratch if explanation provided by applicant regarding this.)

3. To meet vision clearance triangle requirements, ensure the vegetation being planted within 45ft of the driveway edge does not exceed 3 feet in height.

4. Signage sufficient to meet ordinance standards for accessible parking spots must be installed, identified by the international symbol of accessibility and mounted on a vertical pole at least 6ft in height.

5. Site must connect to available sewer and water facilities.

Suggested Motion(s):

Motion to recommend approval of the Re-zoning Application submitted by Trident Holdings, LLC on behalf of the Town of Clayton.

Motion to recommend approval of the Site Plan Review Application submitted by Trident Holdings, LLC with the five (5) listed conditions.

Respectfully Submitted,
Kelsey

Updated 11-2023

B-2 proposed

RE-ZONING APPLICATION

Town of Clayton Town Hall
8348 Hickory Ave
Larsen, WI 54947
Phone: 920-836-2007
Email: administrator@claytonwinnebagowi.gov
Website: https://www.townofclayton.net/

PROPERTY OWNER

Name
Town of Clayton

Street Address
8348 Hickory Ave

City Larsen State WI Zip Code 54947

Phone 920-836-2007

E-mail administrator@claytonwinnebagowi.gov

APPLICANT

Check: Architect: _____ Engineer: _____ Surveyor: _____ Attorney: _____ Agent: _____ Owner: X

Name: Trident Holdings, LLC

Address: 501 South Nicolet Road, Appleton, WI Zip Code: 54914

Phone: 920-739-1107 E-Mail: bpgill@gillandgillsc.com

Describe the reason for the Re-Zoning: Development of Commercial Buildings

RE-ZONING SPECIFICS

Number of Lots: _____ Total Acreage: 8.175 Tax Key Number: 00603400301

Legal Description: Lot 1 of Certified Survey Map 7739, Located in the Northeast 1/4 of the Southeast 1/4, Section 12, Township 20 North, Range 16 East

Town of Clayton, Winnebago County, Wisconisn.

Current Zoning: A-2

I certify that the attached drawings are to the best of my knowledge complete and drawn in accordance with all Town of Clayton codes.

Applicant Signature: _____ Date: 4/9/25

Town Use Only **Fee (see Town Fee Schedule)**

Fee: $500 Check #: 1113 Receipt #: 27449 Date: 4/14/25

Date Received Complete: 4/14/25 By: KM Applic. #: _____

Review Meetings - Plan Comm _____ Town Board _____

Newspaper Publication Dates: _____ & _____ Posting Date: _____

300ft Neighborhood Notice Distribution : _____

Re-Zoning is: □Approved □Denied

Comments: _____

Notes: 1. Please notify utility companies regarding your proposed development. 2. A Re-Zoning approval does not constitute approval of a building permit or any required approval of a highway connection permit. 3. A Re-Zoning Application & Fee must be submitted 30 working days prior to meeting.

SITE PLAN APPLICATION

Town of Clayton Town Hall
8348 Hickory Ave
Larsen, WI 54947
Phone: 920-836-2007
Email: administrator@claytonwinnebagowi.gov
Website: https://www.townofclayton.net/

Office Use Only
Date: 04 / 14 /2025
Paid: $ 2680 —
☒Check ☐Cash ☐Credit/Debit Card
By:
Please make checks payable to: TOWN OF CLAYTON
Receipt #: 2748

SUBMITTAL FEES & REQUIREMENTS

Site Plans:	·Meets the requirements of the Town's Zoning Code of Ordinances Article 7, Division 13 ·Meets the requirements of the Town's Subdivision Ordinance ·Submit 1 Hard Copy with application **and** email an 11 x 17 copy
Fees:	**See Town Fee Schedule**
Plan of Operation:	·Letter describing the business

PROPERTY INFORMATION

Parcel ID / Tax Key No.: 006-03400301 | Current Zoning
Site Address / Location: Vacant parcel on American Drive, in between 9023 Clayton Ave & 2615 W American Drive
Current Land Use: A-2, vacant wooded parcel | Proposed Land Use: B-2, general business
Lot Size/Total Acreage: 8.17 acres | Project Schedule: Phase 1 - June - August 2025

APPLICANT

Name: Trident Holdings LLC
Street Address: 501 S. Nicolet Rd
City: Appleton State: WI Zip Code: 54914
Phone: 920-840-4112
E-mail: bpgill@gillandgillsc.com

PROPERTY OWNER (IF NOT THE SAME)

Name: Town of Clayton
Street Address: 8348 Hickory Ave
City: Larsen State: WI Zip Code: 54947
Phone: 920-836-2007
E-mail: administrator@CLAYTONWINNEBAGOWI.GOV

BUILDER

Name: TBD
Street Address:
City: State: Zip Code:
Phone:
E-mail:

ENGINEER

Name: Ben Hamblin
Street Address: 1445 McMahon Drive
City: Neenah State: WI Zip Code: 54956
Phone: 920-751-4200
E-mail: bhamblin@mcmgrp.com

SURVEYOR

Name: McMahon Associates
Street Address: 1445 McMahon Drive
City: Neenah State: WI Zip Code: 54956
Phone: 920-751-4200
E-mail: bhamblin@mcmgrp.com

Office Use Only
Newspaper Publication Dates: _____ & _____
Posting Date: _____
300ft Neighborhood Notice Completed On: _____
Re-Zoning is: ☐Approved ☐Denied
Comments: _____

APPLICANT ACKNOWLEDGEMENT & SIGNATURE

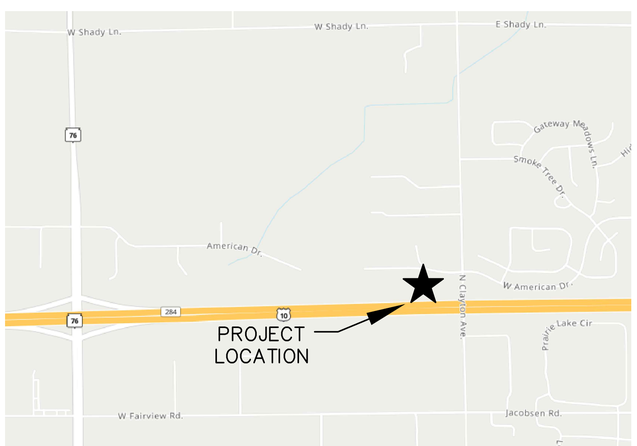
By the execution of this application, applicant hereby authorizes the Town of Clayton or its agents to enter upon the property during the hours of 7:00 AM to 7:00 PM daily for the purpose of inspection. Applicant grants the Town of Clayton or its agents even if applicant has posted this land against trespassing pursuant to Sec. 943.13 Wis. Stats.

Signature

4/9/25
Today's Date

STANDARD ABBREVIATIONS

AC	ACRE	LT	LEFT
AGG	AGGREGATE	LVC	LENGTH OF VERTICAL CURVE
AH	AHEAD	MAINT	MAINTENANCE
ASPH	ASPHALT PAVEMENT	MAT'L	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	OBLIT	OBLITERATE
BRG	BEARING	PAV'T	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	PGL	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	PSI	POUNDS PER SQUARE INCH
CP	CONTROL POINT	PT	POINT OF TANGENCY
CR	CRUSHED	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
CS	CURB STOP	PVI	POINT OF VERTICAL INTERSECTION
CSW	CONCRETE SIDEWALK	PVT	POINT OF VERTICAL TANGENCY
CTH	COUNTY TRUNK HIGHWAY	R	RADIUS
CULV	CULVERT	RCP	REINFORCED CONCRETE PIPE
D	DEPTH OR DELTA	RD	ROAD
DI	DUCTILE IRON	REBAR	REINFORCEMENT ROD
DIA	DIAMETER	REM	REMOVE
DIS	DISCHARGE	RECON	RECONSTRUCT
EA	EACH	REQ'D	REQUIRED
EG	EDGE OF GRAVEL	R/L	REFERENCE LINE
ELEV	ELEVATION	RP	RADIUS POINT
ELEC	ELECTRIC	RR	RAILROAD
EMB	EMBANKMENT	RT	RIGHT
EMAT	EROSION MAT	R/W	RIGHT-OF-WAY
ENT	ENTRANCE	SF	SQUARE FEET
EOR	END OF RADIUS	SI	SLOPE INTERCEPT
EP	EDGE OF PAVEMENT	STH	STATE TRUNK HIGHWAY
EXC	EXCAVATION	SY	SQUARE YARD
EX	EXISTING	SALV	SALVAGED
EW	ENDWALL	SAN	SANITARY
F-F	FACE TO FACE	SEC	SECTION
FDN	FOUNDATION	SHLDR	SHOULDER
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
IN	INCH	VC	VERTICAL CURVE
INL	INLET	VERT	VERTICAL
INV	INVERT	WM	WATER MAIN
IP	IRON PIPE	WV	WATER VALVE
LF	LINEAR FOOT		
LP	LIGHT POLE		



THIS PLAN SET WAS CREATED WITH CIVIL3D 2023. MCMAHON'S "DISCLAIMER FOR TRANSFER OF ELECTRONIC FILES" FORM NEEDS TO BE SIGNED IF A COPY OF THE ELECTRONIC FILES ARE REQUESTED. MCMAHON MAKES NO REPRESENTATION REGARDING THE COMPATIBILITY OF THESE FILES WITH OTHER SOFTWARE, NOR DOES MCMAHON REPRESENT THAT THE FILES WILL CONVERT TO OTHER SOFTWARE WITHOUT ERROR.

STANDARD SYMBOLS

- 2" IRON PIPE FOUND
- 1 1/4" REBAR FOUND
- 1 1/4" x 30" IRON REBAR WEIGHING 4.30 LB/LF SET
- 1" (1.315 OD) IRON PIPE FOUND
- 1" IRON PIPE SET
- 3/4" IRON REBAR FOUND
- 3/4" IRON PIPE FOUND
- 3/4"x 24" IRON REBAR WEIGHING 1.5 LB/LF SET
- MAG NAIL FOUND
- MAG NAIL SET
- GEAR NAIL SET
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- CHISEL CROSS FOUND
- CHISEL CROSS SET
- COUNTY MONUMENT
- CONCRETE MONUMENT FOUND
- CONTROL POINT HORIZONTAL
- CONTROL POINT VERTICAL
- SB or MW — SOIL BORING or MONITORING WELL
- POWER POLE
- POWER POLE W/GUY WIRE
- TELEPHONE OR TELEVISION PEDESTAL
- MB — MAILBOX
- SIGN
- RAILROAD CROSS BUCK
- RAILROAD GATE ARM
- RAILROAD TRACKS
- LIGHT POLE
- WOOD POLE
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL MAST ARM
- CONIFEROUS TREE
- DECIDUOUS TREE
- TREE OR BRUSH LINE
- BED ROCK (IN PROFILE VIEW)
- HANDICAPPED PARKING STALL
- ×876.54 — EXISTING SPOT ELEVATION
- × 88.50 — PROPOSED SPOT ELEVATION (800.00 DATUM)
- DRAINAGE HIGH POINT
- DRAINAGE DIRECTION
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING INLET
- PROPOSED INLET
- EXISTING YARD DRAIN
- PROPOSED YARD DRAIN
- CO — EXISTING CLEAN OUT
- CO — PROPOSED CLEAN OUT
- EXISTING DOWNSPOUT
- PROPOSED DOWNSPOUT
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- CS — EXISTING CURB STOP
- CS — PROPOSED CURB STOP
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER FITTING
- PROPOSED WATER REDUCER
- PROPOSED ENDCAP
- GV — GAS VALVE
- OFP — OVERLAND FLOW PATH

- T — TELEPHONE CABLE – BURIED
- E — ELECTRIC CABLE – BURIED
- OHU — UTILITIES – OVERHEAD
- FO — FIBER OPTIC CABLE – BURIED
- G — GAS MAIN
- TV — CABLE TELEVISION – BURIED
- DITCH LINE
- STREET C/L OR R/L
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- 746 — EXISTING CONTOURS
- 746 — PROPOSED CONTOURS
- SAN — EXISTING SANITARY SEWER
- SAN — PROPOSED SANITARY SEWER
- WM — EXISTING WATER MAIN
- WM — PROPOSED WATER MAIN
- STO — EXISTING STORM SEWER
- STO — PROPOSED STORM SEWER
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED REJECT CURB & GUTTER
- EXISTING CULVERT WITH END SECTIONS
- PROPOSED CULVERT WITH END SECTIONS
- BUILDING OUTLINE
- FENCE LINE
- SAW CUT REQ'D
- SILT FENCE
- GUARD RAIL
- DITCH CHECK
- INLET PROTECTION
- TRACKING PAD
- TURBIDITY BARRIER OR SHEET PILING
- SANDBAG COFFERDAM
- SLOPE INTERCEPT
- LIMITS OF DISTURBANCE
- EROSION MAT
- RIP-RAP (SIZE AS SPECIFIED)
- TURF REINFORCEMENT MAT (TRM)
- VEGETATED BUFFER
- DELINEATED WETLANDS
- EXISTING ASPHALT
- EXISTING CONCRETE
- PROPOSED ASPHALT
- PROPOSED CONCRETE

Designer:
McMAHON ASSOCIATES, INC.
ATTN: BEN HAMBLIN
1445 MCMAHON DRIVE
NEENAH, WI 5956
920-751-4200

Owner:
TRIDENT HOLDINGS LLC
ATTN: BARRY GILL
501 S NICOLET ROAD
APPLETON, WI 54914
920-840-4112

GENERAL NOTES

1. 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 FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES, PRIVATE AND PUBLIC, SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION.
2. 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.
3. EXISTING STREET RIGHT-OF-WAY AND INTERSECTING PROPERTY LINES ARE ESTABLISHED FROM FIELD LOCATED SURVEY MONUMENTATION, PREVIOUS SURVEYS, PLATS AND CURRENT PROPERTY DEEDS.
4. UTILITY CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN.
5. PAVEMENTS AND RELATED CONSTRUCTION SHALL BE COMPLETED TO TOWN STANDARDS.
6. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE OWNER.
7. A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MATCHES EXISTING ASPHALTIC CONCRETE SURFACE.
8. ALL CURB RADII SHOWN ON THE PLAN SHEETS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
9. DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
10. NATURAL GAS UTILITY: CONTRACTOR TO COORDINATE WITH WE ENERGIES FOR NATURAL GAS ISSUES. WE ENERGIES CONTACT IS CODY BECKMAN 920-380-3422.
11. ELECTRICAL UTILITY: CONTRACTOR TO COORDINATE WITH WPS FOR ELECTRICAL ISSUES. WPS CONTACT IS LINDA TREBIATOWSKI 920-236-5904.
12. TELEPHONE UTILITY: CONTRACTOR TO COORDINATE WITH AT&T ON TELEPHONE/DATA ISSUES. AT&T CONTACT IS GARY LAABS 920-735-3063.
13. CABLE UTILITY: CONTRACTOR TO COORDINATE WITH SPECTRUM CABLE FOR CABLE TV ISSUES. SPECTRUM CABLE CONTACT IS RANDY WOLFGRAM 920-831-9260.
14. REFUSE COLLECTION OCCUR ON SITE WEST OF BUILDING 1 (PHASE 1).
15. SANITARY AND WATER IS CURRENTLY PROVIDED BY VILLAGE OF FOX CROSSING & TOWN OF CLAYTON.
16. ONSITE SNOW STORAGE PROVIDED. EXCESS SNOW TO BE REMOVED FROM SITE.
17. A STREET EXCAVATION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE TOWN OF CLAYTON ROAD R.O.W.
18. INSTALL STOP SIGNS PER MUTCD, LATEST EDITION.
19. A KNOX BOX IS REQUIRED THE BUILDING (AND ON ALL FUTURE BUILDINGS).
20. OFF STREET PARKING CALCULATIONS/REQUIREMENTS

PRE-CONSTRUCTION ON-SITE STALL COUNT:	0
PARKING REQUIREMENTS FOR GENERAL SERVICES:	1 SPACE PER 300 GSF
CAPACITY CALCULATION	12,000 SF / 300 = 40
STALLS REQUIRED:	40
STALLS PROVIDED:	37 (ADDITIONAL STALLS AVAILABLE WITHIN BUILDING GARAGE BAYS)

21. ZONING INFORMATION

EXISTING ZONING:	A2	
PROPOSED ZONING:	B2	
USE:	GENERAL BUSINESS	
LOT SIZE:	8.17 ACRES	(0.34 ac min)
LOT WIDTH:	256'	(85' min)
ROAD FRONTAGE:	1090'	(75' min)
BUILDING HEIGHT:	27'	(35' max)
MINIMUM BUILDING SEPARATION:	80' (FUTURE)	(10' min)
STREET YARD SETBACK	32'	(30' min)
REAR YARD SETBACK (SOUTH)	25'	(25' min)
AIRPORT OVERLAY ELEVATION RESTRICTION:	856'	(1009' max)
IMPERVIOUS SURFACE COVERAGE	10%	(70% max)

22. HANDICAP STALL REQUIREMENTS

MAX. STALL COUNT:	37 (42 INCLUDING GARAGE BAYS IN BUILDING)
NO. ACCESSIBLE SPACES REQ'D:	2
PROPOSED # STALLS:	42 (2 HANDICAP, 40 REGULAR)

23. PROJECT PERMITS/REVIEWS REQUIRED:
    CLAYTON SITE PLAN REVIEW
    FOX CROSSING AND CLAYTON UTILITY REVIEW
    GRADING IN CLAYTON AVE ROW PERMIT
    WINNEBAGO COUNTY EROSION CONTROL AND STORMWATER
24. E3 LIST INCLUDED:
    LIGHT COLORED ROOF
    TREE PRESERVATION
    USE OF REGIONAL STORMWATER POND
    OVERLAND DOWNSPOUTS
    DARK SKY FRIENDLY LIGHTING PLAN

SHEET LIST

01 – ABBREVIATIONS SYMBOLS & NOTES
02 – SURVEY CONTROL
03 – EXISTING SITE & DEMOLITION PLAN
04 – PROPOSED SITE & DIMENSIONS
05 – GRADING PLAN
06 – UTILITY & EROSION CONTROL PLAN
07 – LANDSCAPING PLAN
08 – PHOTOMETRIC PLAN
09 – PHOTOMETRIC DETAILS
10 – EROSION CONTROL NOTES
11 – MISCELLANEOUS DETAILS 1
12 – MISCELLANEOUS DETAILS 2
13 – SITE CONCEPT
14 – TRUCK TURNING TEMPLATE

WISCONSIN
BENJAMIN T. HAMBLIN
E-35741
NEENAH
WI
PROFESSIONAL ENGINEER
4/24/25

Land Use	Trident Holdings - Phase 1					
	Existing Conditions			Proposed Conditions		
	Area (sf)	CN	Composite CN	Area (sf)	CN	Composite CN
Roof:	0	98	0	12,000	98	1,176,000
Parking Lot	0	98	0	21,867	98	2,142,966
Sidewalk	0	98	0	1,010	98	98,980
Landscaping:	356,097	74	26,351,178	321,220	74	23,770,280
Total Impervious (sf):	0			34,877		
Total Lot Area (sf):	356,097			356,097		
Composite CN:	74.00			76.35		
% Impervious Coverage:	0.00%			9.79%		

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TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
ABBREVIATIONS, SYMBOLS & NOTES

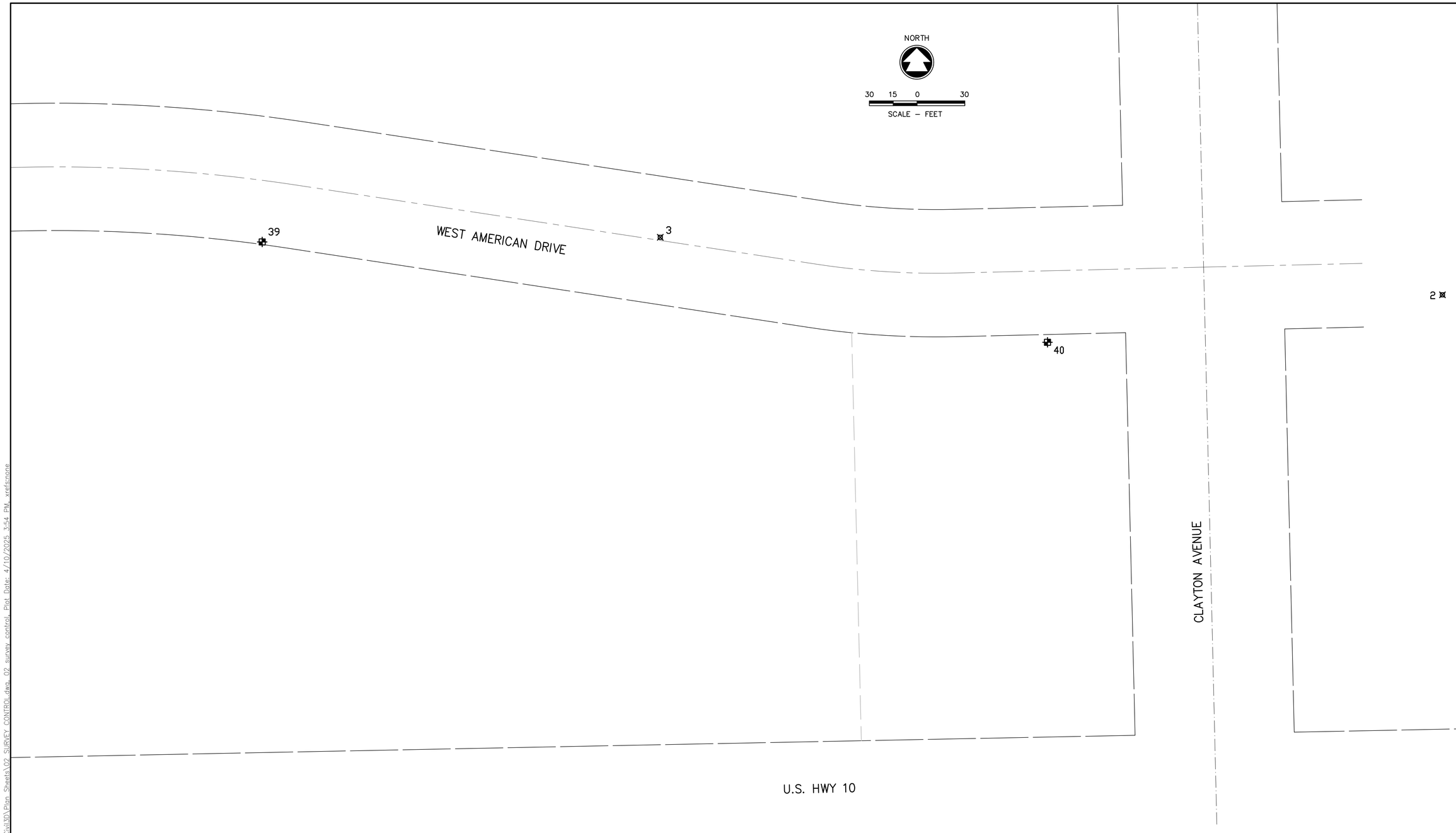
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T0607-09-25-00284

DATE
APRIL 10, 2025

SHEET NO.
01

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HORIZONTAL CONTROL POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
2	546823.44	796809.32	MAG NAIL
3	546859.59	796317.95	MAG NAIL

VERTICAL BENCHMARK CONTROL		
POINT #	ELEVATION	DESCRIPTION
39	826.35	HYDRANT TAG BOLT
40	826.54	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: 4J53
POINT ID: DE7567 NAVD 88 DATUM
BY GPS OBSERVATION TO ELEVATION = 828.05 (2012 ADJUSTMENT)
LEVEL LOOP PER FIELD BOOK 1511 PAGES 30–31 & DIGITAL LEVEL LOOP.
REFERENCED TO MCM PROJECT C0023–09–2000286.06
FIELD BOOK 1511 PAGES 47–50
2025 JOB FIELD BOOK 1584 PAGE 34

HORIZONTAL DATUM:
COORDINATES ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM AS PUBLISHED FOR WINNEBAGO COUNTY NAD 83 (1997)

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TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
SURVEY CONTROL

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SHEET NO.
02

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TOWN OF CLAYTON
PARCEL ID: 00603400203
ADDRESS: 2522 W AMERICAN DR
EX ZONING: B-2

NORTH

20 10 0 20
SCALE – FEET

WEST AMERICAN DRIVE

NOTES:

1. REMOVE & GRUB TREES, ONLY AS NECESSARY FOR BUILDING, UTILITY, & PAVEMENT CONSTRUCTION. PRESERVE AS MANY TREES AS POSSIBLE. SEE LANDSCAPING PLAN FOR TREE PRESERVATION LOCATION.
2. UNCLASSIFIED EXCAVATION
3. SAWCUT
4. PRESERVE TREES IN THESE AREAS

– – – – LIMITS OF DISTURBANCE (43,000 SF, APPROXIMATE) PHASE 1 ONLY

TOWN OF CLAYTON
PARCEL ID: 00603400301
ADDRESS: To Be Determined
EX ZONING: A-2
PROP ZONING: B-2

TOWN OF CLAYTON
PARCEL ID: 00603400302
ADDRESS: 9023 CLAYTON AVE
EX ZONING: P-I

CLAYTON AVENUE

US HWY 10

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TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
EXISTING SITE & DEMOLITION PLAN

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03

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NOTES:

1. ASPHALT PAVEMENT, CABC WITH GEOGRID
2. SNOW STORAGE AREA
3. 4" YELLOW PAINT STRIPE
4. 12" WHITE PAINT STRIPE STOP BAR, & STOP SIGN
5. NEW CONCRETE FLATWORK (8" THICK IN DRIVING AREAS)
6. NEW LED LIGHT POLE / WALL PACK (APPROX LOCATION)
7. STANDARD SIDEWALK
8. YELLOW HANDICAP PAINT SYMBOL
9. HANDICAP SIGN, WALL MOUNTED
10. TEMPORARY ASPHALT DUMPSTER ENCLOSURE (TO BE RELOCATED WITH FUTURE PHASES)
11. LANDSCAPING AREA. SEE LANDSCAPING PLAN
12. ANTICIPATED SIGN LOCATION. DESIGN / PERMITTING BY OTHERS
13. EXISTING TREES IN AREA TO REMAIN. SEE LANDSCAPING PLAN
14. KNOX BOX LOCATION (APPROXIMATE, TO BE DETERMINED BY BUILDER)
15. SEWER / WATER LATERAL. SEE UTILITY PLAN
16. 25' VISION TRIANGLE
17. STORM SEWER / STRUCTURE. SEE UTILITY PLAN

(#) – STALL COUNT (37 SURFACE STALLS, 5 GARAGE BAY STALLS)

NORTH

20 10 0 20
SCALE – FEET

WEST AMERICAN DRIVE

CLAYTON AVENUE

US HWY 10

PROPOSED BUILDING

30' FRONT YARD SETBACK

25' REAR YARD SETBACK

10'SIDE YARD SETBACK

INV RIM 825.03

822.09
8" PVC
15" RCP

822.01
15" RCP

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TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
PROPOSED SITE & DIMENSIONS

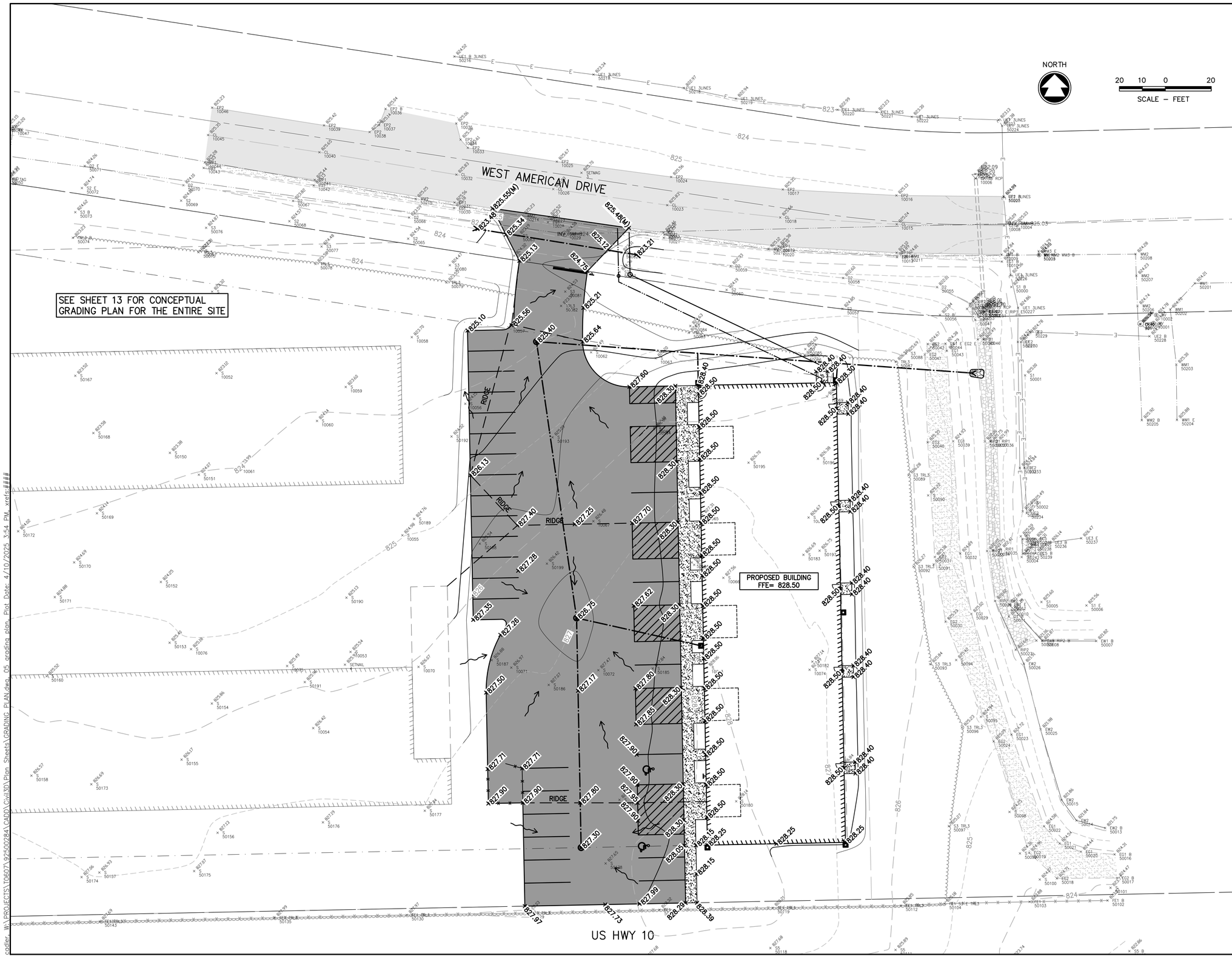
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04

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TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
GRADING PLAN

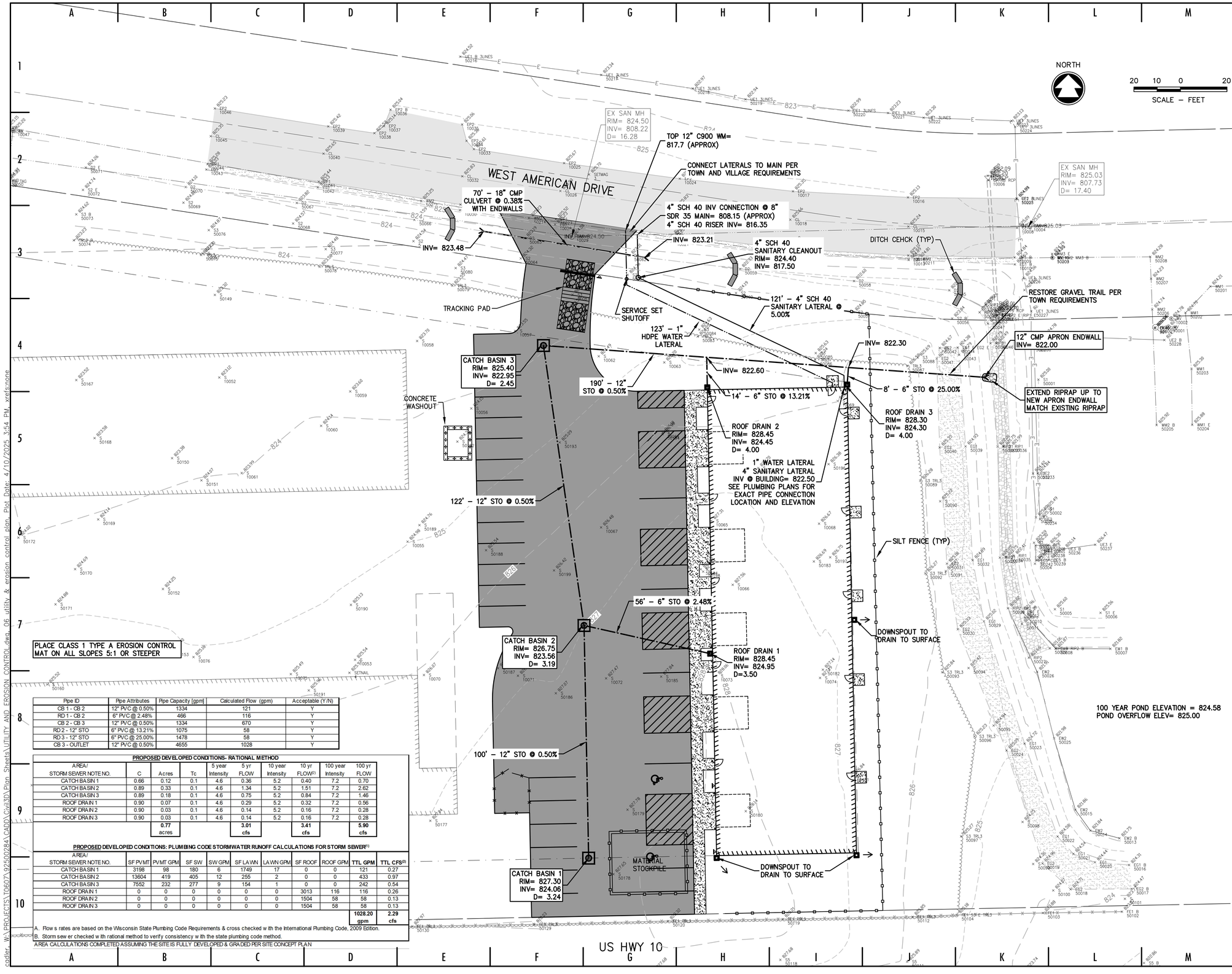
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05

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Pipe ID	Pipe Attributes	Pipe Capacity [gpm]	Calculated Flow (gpm)	Acceptable (Y/N)
CB 1 - CB 2	12" PVC @ 0.50%	1334	121	Y
RD 1 - CB 2	6" PVC @ 2.48%	466	116	Y
CB 2 - CB 3	12" PVC @ 0.50%	1334	670	Y
RD 2 - 12" STO	6" PVC @ 13.21%	1075	58	Y
RD 3 - 12" STO	6" PVC @ 25.00%	1478	58	Y
CB 3 - OUTLET	12" PVC @ 0.50%	4655	1028	Y

PROPOSED DEVELOPED CONDITIONS- RATIONAL METHOD

AREA/ STORM SEWER NOTE NO.	C	Acres	Tc	5 year Intensity	5 yr FLOW	10 year Intensity	10 yr FLOW[2]	100 year Intensity	100 yr FLOW
CATCH BASIN 1	0.66	0.12	0.1	4.6	0.36	5.2	0.40	7.2	0.70
CATCH BASIN 2	0.89	0.33	0.1	4.6	1.34	5.2	1.51	7.2	2.62
CATCH BASIN 3	0.89	0.18	0.1	4.6	0.75	5.2	0.84	7.2	1.46
ROOF DRAIN 1	0.90	0.07	0.1	4.6	0.29	5.2	0.32	7.2	0.56
ROOF DRAIN 2	0.90	0.03	0.1	4.6	0.14	5.2	0.16	7.2	0.28
ROOF DRAIN 3	0.90	0.03	0.1	4.6	0.14	5.2	0.16	7.2	0.28
		0.77 acres			**3.01 cfs**		**3.41 cfs**		**5.90 cfs**

PROPOSED DEVELOPED CONDITIONS: PLUMBING CODE STORMWATER RUNOFF CALCULATIONS FOR STORM SEWER[1]

AREA/ STORM SEWER NOTE NO.	SF PVMT	PVMT GPM	SF SW	SW GPM	SF LAWN	LAWN GPM	SF ROOF	ROOF GPM	TTL GPM	TTL CFS[2]
CATCH BASIN 1	3198	98	180	6	1749	17	0	0	121	0.27
CATCH BASIN 2	13604	419	405	12	255	2	0	0	433	0.97
CATCH BASIN 3	7552	232	277	9	154	1	0	0	242	0.54
ROOF DRAIN 1	0	0	0	0	0	0	3013	116	116	0.26
ROOF DRAIN 2	0	0	0	0	0	0	1504	58	58	0.13
ROOF DRAIN 3	0	0	0	0	0	0	1504	58	58	0.13
									1028.20 gpm	**2.29 cfs**

A. Flow s rates are based on the Wisconsin State Plumbing Code Requirements & cross checked w ith the International Plumbing Code, 2009 Edition.
B. Storm sew er checked w ith rational method to verify consistency w ith the state plumbing code method.
AREA CALCULATIONS COMPLETED ASSUMING THE SITE IS FULLY DEVELOPED & GRADED PER SITE CONCEPT PLAN

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TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
UTILITY & EROSION CONTROL PLAN

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T0607-09-25-00284

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SHEET NO.
06

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NOTES:

T=TREES; S=SHRUB; E=EVERGREEN; B-B=BALLED IN BURLAP; B.R.=BARE ROOT; P=POTTED; T.S.= TREE SPADE.

THE LAYOUT OF THE PLANTING AND LOCATION OF PLANT HOLES OR BEDS SHALL BE STAKED BY THE CONTRACTOR SUBJECT TO ENGINEER/ ARCHITECTS APPROVAL.

ALL PLANTING AREAS TO BE FREE OF WEEDS AND GRASS, TREATED WITH A NON-LEACHING PRE-EMERGENT HERBICIDE, PREEN OR EQUAL, PER MANUFACTURER'S SPECIFICATIONS AND COVERED WITH TYPAR 3301 OR SUPAC 2P AND THEN WITH 3" OF STONE MULCH, FREE OF WEEDS AND DISEASE. THE MULCH SHALL BE 1"-1-1/2" DIA. THE MULCH SHALL BE RAKED TO PRODUCE A UNIFORM TEXTURE.

SEE THIS PAGE FOR PLANTING AND STAKING DETAILS.

AREAS TO BE PAVED, SEEDED, AND BEDDED ARE INDICATED ON THE PLANS.

PLANT QUANTITIES INDICATED ON THE PLAN RULE OVER QUANTITIES ON THE PLANTS LIST.

CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING PITS FOR NEW TREES.

ALL PLANTS TO BE SIZED AND GRADED AS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE USA STANDARD FOR NURSERY STOCK.

PLANT SUBSTITUTIONS PERMISSIBLE WITH ENGINEER/ARCHITECT AND TOWN APPROVAL AND WRITTEN NOTIFICATION PRIOR TO INSTALLATION.

PLASTIC OR METAL POTS TO BE REMOVED. SCORE ROOTBALL 1" DEEP WITH SHARP KNIFE. REMOVE TOP PORTION OF FIBER POT THAT EXTENDS ABOVE FINISH GRADE AND CUT SIDES OF POT TO AID IN DECOMPOSITION.

ALL LAWN AREAS TO BE SEEDED, FERTILIZED AND MULCHED WITH CHOPPED STRAW. MULCH IS TO BE CRIMPED AND SHOULD CONFORM TO DNR TECHNICAL STANDARDS 1058 AND 1059. SEE EROSION CONTROL PLAN FOR EROSION MAT AND SPECIAL RESTORATION INFORMATION

MATURE TREES SHOULD BE LINED UP TO PROVIDE A TEN FOOT UNDERCLEARANCE OVER PARKING STALLS.

LOCATE TREES AWAY FROM THE PROPOSED SWALES.

ALL BEDS EDGES TO BE WELL SHAPED 'SPADE CUT' EDGES, 3" DEPTH, FORMED IN LINES OR CURVES AS SHOWN ON THE DRAWINGS.

TOWN OF CLAYTON NOTES:

PER SECTION E(1)(B)(1) OF THE LANDSCAPE DESIGN STANDARDS, THIS LANDSCAPE PLAN IS TO BE REVIEWED AS AN ALTERNATIVE LANDSCAPE DESIGN, AS EXISTING MATURE TREES ARE TO BE USED TO HELP ACHIEVE THE TOWN REQUIREMENTS.

ATTACHMENT E (C)(b) – PARKING LOT LANDSCAPING

(1)(a) PARKING SPACES MUST BE SEPARATED BY A PLANTING ISLAND OR PENINSULA TO THE RATE OF ONE (1) ISLAND/PENINSULA FOR EACH ROW OF TWELVE (12) CONSECUTIVE PARKING SPACES FOR SINGLE ROW CONFIGURATIONS.

PROVIDED: DUE TO LOT CONSTRAINTS, CURBED ISLANDS ARE OMITTED. THE WEST SIDE OF THE PARKING LOT CONTAINS TEMPORARY PARKING SPACES THAT WILL BE RECONFIGURED IN FUTURE PHASES, WHICH WILL INCLUDE CROSS ACCESS EASEMENTS FOR SHARED PARKING.

(3)(a) IF PLANTING ISLANDS ARE REQUIRED OR PROPOSED, ONE DECIDUOUS OR EVERGREEN TREE SHALL BE PLANTED IN EACH PLANTING ISLAND.

PROVIDED: ONE (1) DECIDUOUS TREE IS PROVIDED AT THE NORTH SIDE OF THE EAST PARKING ROW.

(3)(b) ONE (1) TALL OR MEDIUM DECIDUOUS OR EVERGREEN TREE PER 50 LINEAR FEET OR PARKING LOT PERIMETER SHALL BE EQUALLY SPACED AROUND THE PERIMETER OF THE LOT

REQUIRED: THERE ARE APPROXIMATELY 315 LINEAR FEET OF PARKING LOT PERIMETER (EXCLUDING THE WEST PERIMETER DUE TO FUTURE EXPANSION). 315 FEET / 50 FEET = SIX (6) TREES PERIMETER TREES REQUIRED.

PROVIDED: THE PARKING LOT PERIMETER AND SIDEWALK ABUT THE PROPOSED BUILDING TO THE EAST, THE FUTURE LOT EXPANSION TO THE WEST, AND LOT LINE TO THE SOUTH. ONE (1) DECIDUOUS TREE IS PROVIDED IN THE AVAILABLE SPACE. EXISTING WOODED AREAS HELP SATISFY THIS TREE REQUIREMENT (ALTERNATIVE LANDSCAPING).

ATTACHMENT E (C)(d) – BUILDING AND GROUNDS LANDSCAPING

(1) – GROUNDS LANDSCAPING

(a) A MINIMUM OF 20 LANDSCAPE POINTS CONSISTING OF DECIDUOUS AND EVERGREEN TREES SHALL BE PROVIDED ON A PRORATED BASIS FOR EVERY 4,500 SQUARE FEET OF IMPERVIOUS SURFACE AREA.

(b) A MINIMUM OF THREE (3) LANDSCAPE POINTS CONSISTING OF DECIDUOUS AND/OR EVERGREEN SHRUBS SHALL BE PROVIDED ON A PRORATED BASIS FOR EVERY 1,000 SQUARE FEET OF IMPERVIOUS SURFACE AREA.

REQUIRED: THERE IS APPROXIMATELY 34,728 SF OF IMPERVIOUS SURFACE AREA.

34,728 SF / 4,500 SF = 7.7 * 20 POINTS = 154 TREE POINTS REQUIRED
34,728 SF / 1,000 SF = 34.73 * 3 POINTS = 104 SHRUB POINTS REQUIRED

PROVIDED: THE EXISTING WOODED AREA PROVIDES ENOUGH POINTS TO SATISFY THE TREE REQUIREMENT (ALTERNATIVE LANDSCAPING).

(9) TALL SHRUBS * 5 POINTS = 45 POINTS
(22) LOW SHRUBS * 3 POINTS = 66 POINTS

A TOTAL OF 111 SHRUB POINTS ARE PROVIDED.

(2)(a) – BUILDING LANDSCAPING (TIER 1) –75% OF ALL BUILDING SIDES MUST BE LANDSCAPED WITH A VARIETY OF APPROPRIATE PLANT MATERIALS IN A MULCHED BED A MINIMUM OF 6' WIDE MEASURED FROM BUILDING FACADE.

REQUIRED: 520 LINEAR FEET OF BUILDING FACADE * 0.75 = 390 FEET OF BUILDING SIDE MUST BE LANDSCAPED.

PROVIDED: 160 LINEAR FEET OF LANDSCAPED BUILDING ON THE WEST AND NORTH SIDES ARE PROVIDED. THE EAST AND SOUTH SIDES OF THE BUILDING (TOTAL 260 FEET) ARE BLOCKED FROM VIEW OFFSITE BY THE EXISTING WOODED AREA. LANDSCAPING OMITTED FROM THESE SIDES. (ALTERNATIVE LANDSCAPING)

PLANTING SCHEDULE

SHADE TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT CONDITION	SIZE AT PLANTING	HEIGHT AT MATURITY (HxW)	TREE GROUNDS POINTS TOTAL
SSM	2	Acer miyabei 'Morton'	State Street Miyabe's Maple	Balled and Burlapped or Potted	2 1/2" CAL	30' x 40'	2 x 50 = 100

SHRUB DECIDUOUS

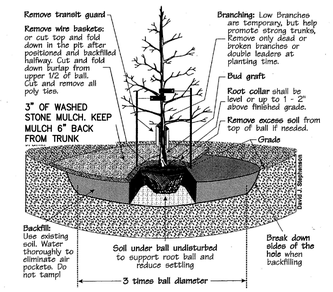
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT CONDITION	SIZE AT PLANTING	HEIGHT AT MATURITY (HxW)	SHRUB GROUNDS POINTS TOTAL
GMS	10	Spiraea japonica 'Goldmound'	Goldmound Spirea	Potted	18"'	3' x 3.5'	10 x 3 = 30
LHS	15	Itea virginica 'Sprich'	Little Henry Sweetspire	Potted	18"'	3' x 3'	6 x 3 = 18*
LLH	8	Hydrangea paniculata 'Little Lime'	Little Lime Hydrangea	Potted	18"'	4' x 4'	*
MKL	3	Syringa velutina 'Miss Kim'	Miss Kim Lilac	Potted	18"'	8' x 8'	3 x 5 = 15
NS	10	Spiraea japonica 'Norman'	Norman Spirea	Potted	18"'	2' x 2'	*
TWN	6	Physocarpus opulifolius 'SMNPOTW'	Tiny Wine Ninebark	Potted	18"'	3' x 3'	6 x 3 = 18

SHRUB EVERGREEN

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT CONDITION	SIZE AT PLANTING	HEIGHT AT MATURITY (HxW)	SHRUB GROUNDS POINTS TOTAL
GMB	2	Buxus x 'Green Mountain'	Green Mountain Boxwood	Potted	24"'	5' x 3'	*
SGJ	6	Juniperus chinensis 'Sea Green'	Sea Green Juniper	Potted	24"'	5' x 5'	6 x 5 = 30

* SOME LANDSCAPING ITEMS ARE NOT ELIGIBLE TO BE COUNTED TOWARDS GROUNDS POINTS CALCULATIONS

Proper Tree Planting Diagram

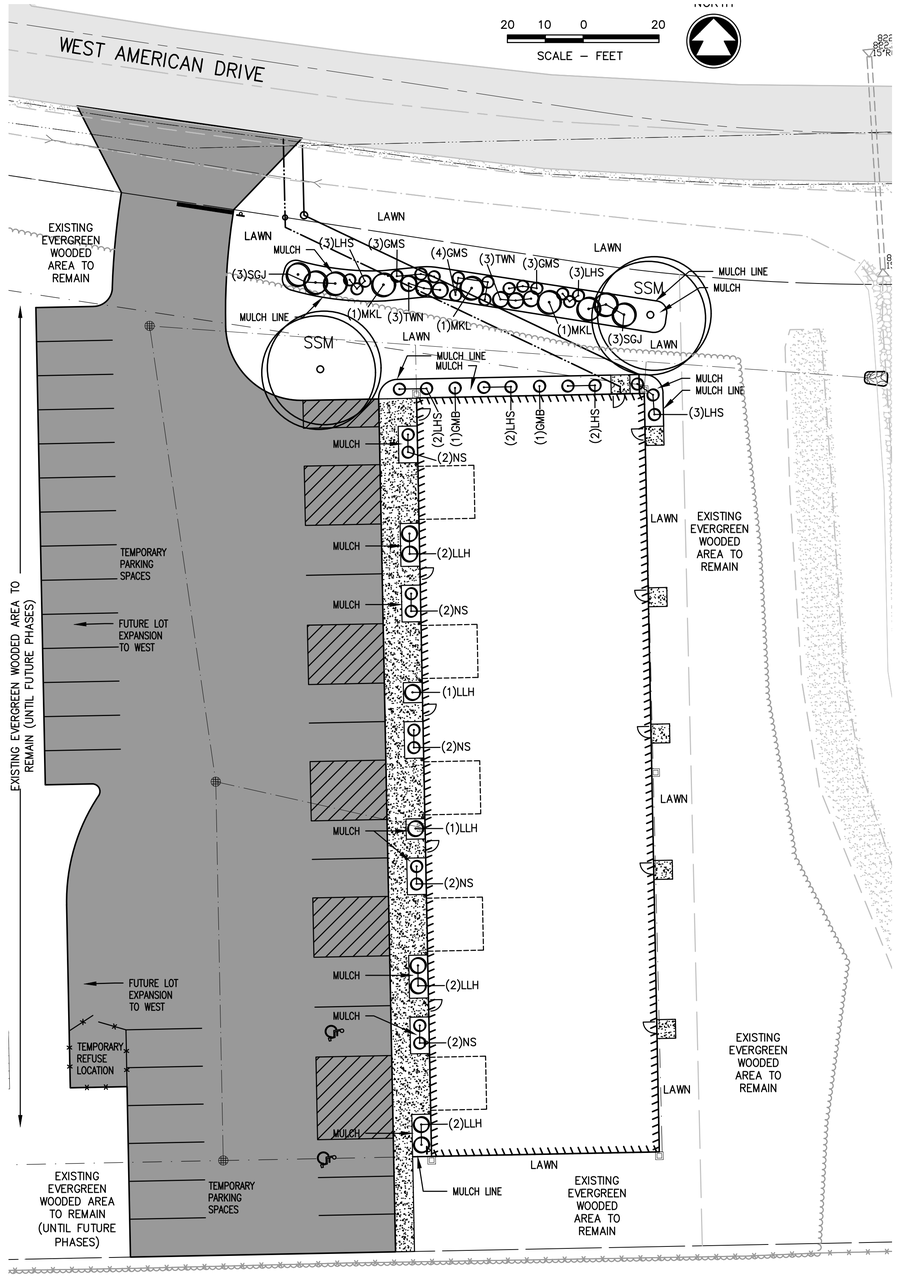


Stake only if you have to. Use 2-3"-wide webbing straps and secure to stakes with heavy gauge wire. The wire should be able to stick straight out from the stake and hold the webbing strap up, preventing it from sliding down the tree. Do not stake tightly - trees gain strength from movement. Remove all stakes after one year.

Use of tree wrap is not recommended, as it causes a number of problems for the tree.

Wisconsin Dept. Of Natural Resources - Oct. 2000

SHRUB PLANTING DETAIL
NO SCALE



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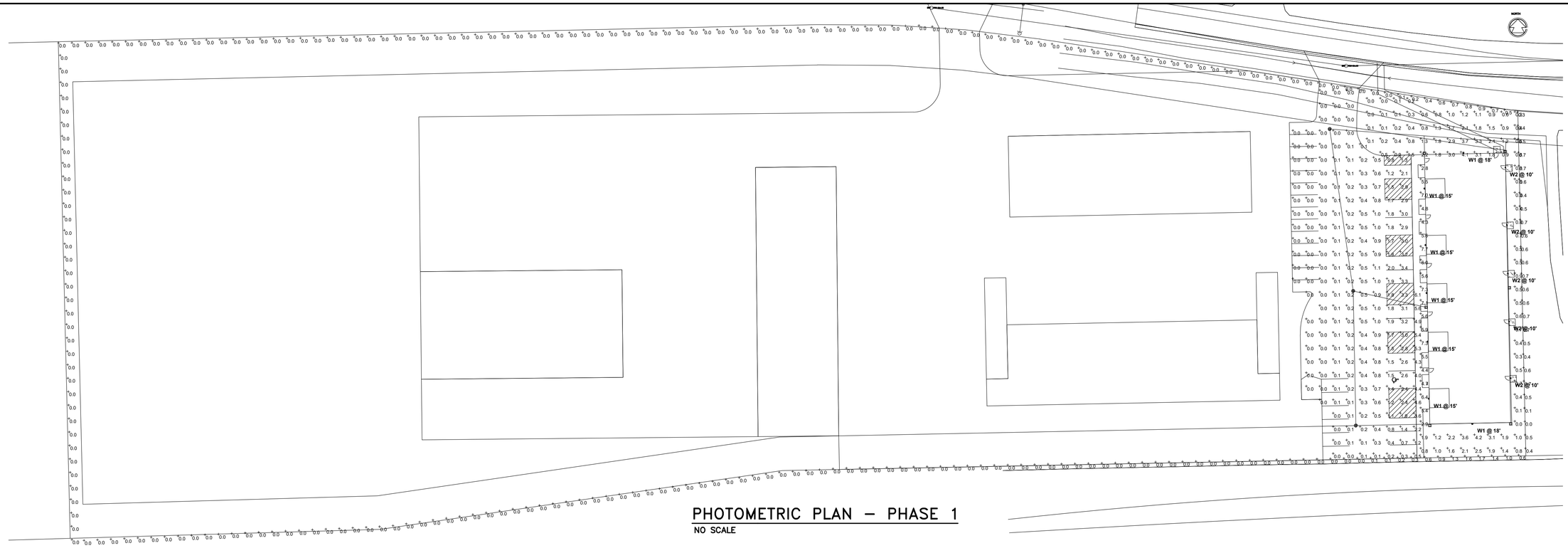
NO.	DATE	REVISION

TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
LANDSCAPING PLAN

DESIGNED	DRAWN
BTH	CKA

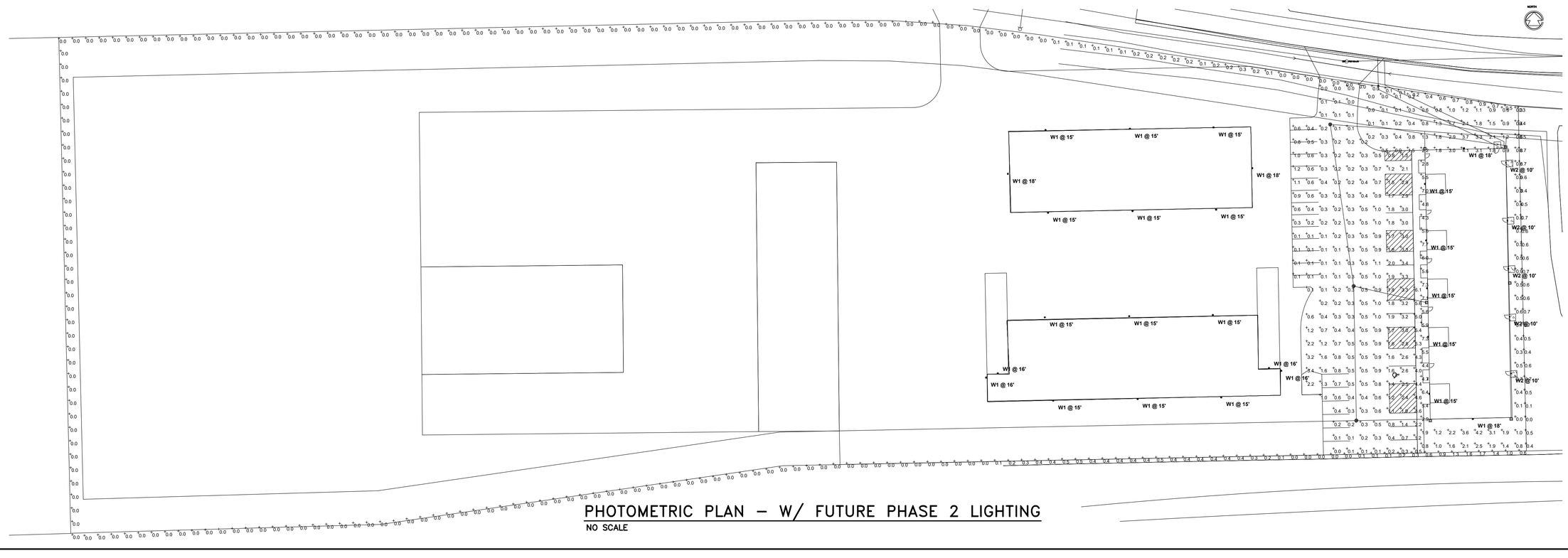
PROJECT NO. T0607-09-25-00284
DATE APRIL 10, 2025
SHEET NO. 07

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PHOTOMETRIC PLAN – PHASE 1

NO SCALE



PHOTOMETRIC PLAN – W/ FUTURE PHASE 2 LIGHTING

NO SCALE

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NO.	DATE	REVISION

TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
PHOTOMETRIC PLAN

DESIGNED	DRAWN
JAF	JRR

PROJECT NO.
T0607-09-25-00284

DATE
APRIL 10, 2025

SHEET NO.
08

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WDGE3 LED
Architectural Wall Sconce

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE3 has been designed to deliver up to 12,000 lumens through a precision refractive lens with wide distribution, perfect for augmenting the lighting from pole mounted luminaires.

Specifications

Depth (D1): 8"
Depth (D2): 1.5"
Height: 9"
Width: 18"
Weight: 19.5 lbs
(without options)



design select — Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0˚C	Cold EM, -20˚C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	6,000	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE3 LED P3 40K 70CRI R3 MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	
WDGE3 LED	P0 P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	70CRI 80CRI	R2 Type 2 R3 Type 3 R4 Type 4 RFT Forward Throw	MVOLT 347[1] 480[1]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[2]	**Shipped separately** AWS 3/8 inch Architectural wall spacer[3] PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.[3]

Options		Finish	
E15WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (15W, 5°C min)	DDBXD	Dark bronze
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)	DBLXD	Black
PE	Photocell, Button Type[4]	DNAXD	Natural aluminum
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)[5]	DWHXD	White
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD	Sandstone
SPD10KV	10kV Surge pack[6]	DDBTXD	Textured dark bronze
CCE	Coastal Construction [7]	DBLBXD	Textured black
		DNATXD	Textured natural aluminum
		DWHGXD	Textured white
		DSSTXD	Textured sandstone

Standalone Sensors/Controls

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls

NLTAIR2 PIR	Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights.
NLTAIR2 PIRH	Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 15'-30' mounting heights.
NLTAIREM2 PIR	Embedded wireless controls by nLight with UL924 listed emergency operation, Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights[1]
NLTAIREM2 PIRH	Embedded wireless controls by nLight with UL924 listed emergency operation, Passive Infrared Occ sensor and on/off photocell for 15'-30' mounting heights

See page 4 for out of box functionality

Accessories
Ordered and shipped separately.

WDGEAWS DDBXD — WDGE 3.98inch Architectural Wall Spacer (specify finish)
WDGEPBBW DDBXD U — WDGE3 surface-mounted back box (specify finish)

NOTES
1. 347V and 480V not available with E15WH and E20WC.
2. Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
3. For PBBW and AWS with CCE option, require an RFA.
4. PE not available in 480V and with sensors/controls.
5. DMG option not available with sensors/controls.
6. Not available with E20WC option.
7. Available with MVOLT only and only rated to 25C ambient.

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WDGE2 LED
Architectural Wall Sconce
Precision Refractive Optic

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

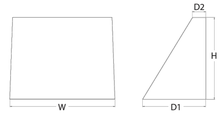
Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: 13.5 lbs
(without options)



design select — Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0˚C	Cold EM, -20˚C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI T3M MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	
WDGE2 LED	P0[1] P1[1] P2[1] P3[1] P4[1]	27K 2700K 30K 3000K 40K 4000K 50K 5000K AMB[1] Amber	70CRI[4] 80CRI LW[1] Limited Wavelength	T1S Type I Short T2M Type II Medium T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT 347[1] 480[1]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[2]	**Shipped separately** AWS 3/8inch Architectural wall spacer[3] PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available[3]

Options		Finish	
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)	DDBXD	Dark bronze
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)	DBLXD	Black
PE	Photocell, Button Type[4]	DNAXD	Natural aluminum
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)[5]	DWHXD	White
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD	Sandstone
CCE	Coastal Construction[6]	DDBTXD	Textured dark bronze
		DBLBXD	Textured black
		DNATXD	Textured natural aluminum
		DWHGXD	Textured white
		DSSTXD	Textured sandstone

Standalone Sensors/Controls

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls

NLTAIR2 PIR	Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights.
NLTAIR2 PIRH	Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights.
NLTAIREM2 PIR	Embedded wireless controls by nLight with UL924 listed emergency operation, Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights
NLTAIREM2 PIRH	Embedded wireless controls by nLight with UL924 listed emergency operation, Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights.

See page 4 for out of box functionality

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PHASE 1 SCHEDULES

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes	Number Lamps
	W1		7	Lithonia Lighting	WDGE3 LED P2 70CRI RFT 30K	WDGE3 LED WITH P2 - PERFORMANCE PACKAGE, 3000K, 70CRI, FORWARD THROW OPTIC		WDGE3_LED_P2_70CRI_RFT_30K.ies	7922	0.9	59.2761	100%	TYPE IV, SHORT, BUG RATING: B1 - U0 - G2			1
	W2		5	Lithonia Lighting	WDGE2 LED P0 30K 70CRI TFTM	WDGE2 LED WITH P0 - PERFORMANCE PACKAGE, 3000K, 70CRI, TYPE FORWARD THROW MEDIUM OPTIC		WDGE2_LED_P0_30K_70CRI_TFTM.ies	751	0.9	6.8946	100%	TYPE IV, SHORT, BUG RATING: B0 - U0 - G1			1

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING LOT	+	0.8 fc	6.1 fc	0.0 fc	N/A	N/A
PROPERTY LINE - NON-RESIDENTIAL - 2.0 MAX	+	0.1 fc	1.7 fc	0.0 fc	N/A	N/A
SITE	+	2.0 fc	7.7 fc	0.0 fc	N/A	N/A

FUTURE PHASE 2 SCHEDULES

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes	Number Lamps
	W1		25	Lithonia Lighting	WDGE3 LED P2 70CRI RFT 30K	WDGE3 LED WITH P2 - PERFORMANCE PACKAGE, 3000K, 70CRI, FORWARD THROW OPTIC		WDGE3_LED_P2_70CRI_RFT_30K.ies	7922	0.9	59.2761	100%	TYPE IV, SHORT, BUG RATING: B1 - U0 - G2			1
	W2		5	Lithonia Lighting	WDGE2 LED P0 30K 70CRI TFTM	WDGE2 LED WITH P0 - PERFORMANCE PACKAGE, 3000K, 70CRI, TYPE FORWARD THROW MEDIUM OPTIC		WDGE2_LED_P0_30K_70CRI_TFTM.ies	751	0.9	6.8946	100%	TYPE IV, SHORT, BUG RATING: B0 - U0 - G1			1

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING LOT	+	1.0 fc	6.1 fc	0.0 fc	N/A	N/A
PROPERTY LINE - NON-RESIDENTIAL - 2.0 MAX	+	0.1 fc	1.7 fc	0.0 fc	N/A	N/A
SITE	+	2.0 fc	7.7 fc	0.0 fc	N/A	N/A

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REVISION | DATE | NO.

TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
PHOTOMETRIC DETAILS

DESIGNED JAF | DRAWN JRR
PROJECT NO. T0607-09-25-00284
DATE APRIL 10, 2025
SHEET NO. 09

ireibold, W:_PROJECTS\T0607_92500284\CADD\Civil3D\plan sheets\PHOTOMETRIC DETAILS.dwg, 09 photometric details, Plot Date: 4/11/2025 8:08 AM, xrefs:###

EROSION & SEDIMENT CONTROL PLAN

CONTACT INFORMATION:

OWNER:
TRIDENT HOLDINGS LLC
ATTN: BARRY GILL
501 S. NICOLET RD
APPLETON, WI 54914
PHONE: (920) 840–4112

DESIGNER: MCMAHON ASSOCIATES
P.O. BOX 1025
NEENAH, WI 54957–1025
BEN HAMBLIN, PROJECT ENGINEER
PHONE: (920) 751–4200

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.state.wi.us/org/water/wm/nps/stormwater/techstds.htm. RIP–RAP AND DE–WATERING SHALL COMPLY WITH THE WISCONSIN CONSTRUCTION SITE BMP HANDBOOK UNTIL TECHNICAL STANDARDS 1061 AND 1065 ARE COMPLETED BY THE DNR. THE MINIMUM BEST MANAGEMENT PRACTICES SPECIFIED FOR THIS PROJECT ARE AS FOLLOWS:

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

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES AND IMPLEMENTING BEST MANAGEMENT PRACTICES TO DO THE FOLLOWING TO THE MAXIMUM EXTENT PRACTICABLE:

A. PRESERVE EXISTING VEGETATION WHERE POSSIBLE. TEMPORARILY STABILIZE EXPOSED SOILS THAT WILL NOT BE ACTIVE FOR 30 DAYS OR MORE. POLYACRYLAMIDE, MULCHING, SEEDING AND GRAVELING MAY BE USED TO TEMPORARILY STABILIZE EXPOSED SOILS.

B. DIVERT CLEAR WATER AWAY FROM EXPOSED SOILS USING CONSTRUCTION DIVERSIONS.

C. MANAGE SHEET FLOW THAT IS NOT CONTROLLED WITH A SEDIMENT TRAPPING DEVICE. SILT FENCE IS USED TO MANAGE SHEET FLOW. GRADING PRACTICES MAY BE USED TO SUPPLEMENT THE SILT FENCE.

D. MANAGE CONCENTRATED FLOW WITH SEDIMENT TRAPPING DEVICES. STORM DRAIN INLET PROTECTION AND A SEDIMENT BASIN ARE USED TO MANAGE CONCENTRATED FLOW. POLYMERS ARE USED FOR THE SEDIMENT BASIN TO ENHANCE TRAPPING.

E. MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ANY ONE TIME.

F. PROTECT INLETS FROM RECEIVING SEDIMENT WITH STORM DRAIN INLET PROTECTION.

G. PREVENT TRACKING OF SEDIMENT ONTO ROADS AND PAVED SURFACES USING TRACKING PADS AND/OR TIRE WASHING. MINIMIZE TRACKING AT ALL SITE EXITS AND ENTRANCES.

H. CLEANUP OFFSITE SEDIMENT DEPOSITS AT THE END OF EACH WORK DAY & BEFORE A RAIN.

I. MANAGE THE USE, STORAGE AND DISPOSAL OF CHEMICALS, CEMENT, CONCRETE AND OTHER COMPOUNDS AND MATERIALS TO PREVENT THEIR DISCHARGE INTO THE DRAINAGE SYSTEM.

J. STABILIZE DRAINAGE WAYS AND EROSIVE DISCHARGE LOCATIONS WITH CHANNEL EROSION MAT, MULCHING, SEEDING, DITCH CHECKS & RIP–RAP AS SOON AS POSSIBLE.

K. PERMANENTLY STABILIZE EXPOSED SOILS WITH NON–CHANNEL EROSION MAT, MULCHING AND SEEDING AS SOON AS POSSIBLE.

L. CONTROL AND MINIMIZE DUST FROM VEHICULAR TRAFFIC AND WIND EROSION. PRESERVING VEGETATION, MULCHING, SEEDING, WATERING, GRADING PRACTICES, POLYACRYLAMIDE, SOIL STABILIZERS, CHLORIDES, & BARRIERS MAY BE USED FOR DUST CONTROL.

M. PREVENT THE DISCHARGE OF SEDIMENT AS PART OF DE–WATERING. GEOTEXTILE BAGS, SEDIMENT TANKS, SEDIMENT TRAPS, SEDIMENT BASINS, AND FILTRATION SYSTEMS MAY BE USED FOR DE–WATERING. POLYMERS ARE TO BE USED TO ENHANCE SEDIMENT TRAPPING.

N. SOIL TYPE ON THE PROPERTY, PER NRCS SOIL MANUAL, IS HORTONVILLE SILT LOAM (HrB), A TYPE "C" SOIL. DEPTH TO GROUNDWATER IS >THAN 5'.

EROSION CONTROL NOTES

1. THIS PLAN COVERS SITE GRADING, UTILITY CONSTRUCTION AND PARKING LOT CONSTRUCTION.
2. OBTAIN A STREET EXCAVATION PERMIT FOR ALL WORK WITHIN THE PUBLIC RIGHT OF WAY. OBTAIN AN EROSION & SEDIMENT CONTROL PERMIT PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.
3. EROSION CONTROL PLAN DESIGN CRITERIA, STANDARDS AND SPECIFICATIONS: ALL EROSION CONTROL MEASURES SHALL AT A MINIMUM, COMPLY WITH THE DESIGN CRITERIA, STANDARDS, AND SPECIFICATIONS FOR EROSION CONTROL BASED ON ACCEPTED DESIGN CRITERIA, STANDARDS, AND SPECIFICATIONS IDENTIFIED IN THE LATEST EDITION OF THE DEPARTMENT OF NATURAL RESOURCES' TECHNICAL STANDARDS AND BY THE REQUIREMENTS OF THE TOWN OF CLAYTON EROSION CONTROL ORDINANCE. AS INDIVIDUAL PRACTICES FROM WI–DNR CONSTRUCTION SITE BMP HANDBOOK ARE PUBLISHED AS WI–DNR TECHNICAL STANDARDS, THE STANDARD SHALL GOVERN.
4. THE CONTRACTOR SHALL NOTIFY THE TOWN & COUNTY AT LEAST 2 DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
5. BUILDING/PAVING PERMITS WILL BE WITHHELD UNTIL ALL INITIAL EROSION CONTROL PRACTICES ARE IMPLEMENTED AND APPROVED BY THE TOWN & COUNTY EROSION CONTROL INSPECTOR.
6. EROSION & SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED OR INSTALLED BEFORE LAND DISTURBING CONSTRUCTION ACTIVITIES BEGIN. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION UNTIL THE SITE IS STABILIZED BY VEGETATION OR OTHER APPROVED MEANS. FINAL STABILIZATION ACTIVITIES SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE & FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
7. 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.
8. CONSTRUCTION ENTRANCES UTILIZING 3" CLEAR STONE SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12 INCHES THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY.
9. ON–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 OTHER 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.
10. 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. DEWATERING TO MEET THE REQUIREMENTS OF DNR TECHNICAL STANDARD 1061.
11. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LET INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHERS METHODS APPROVED BY THE CITY OF APPLETON EROSION CONTROL INSPECTOR. STRAW MULCH SHALL BE ANCHORED BY "CRIMPING" THE STRAW INTO THE SOIL.
12. 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.
13. IN THE CASE OF LATE SEASON AND WINTER CONSTRUCTION, RESTORATION/LAND–SCAPING OF THE SITE SHALL ALL OCCUR NO LATER THAN JUNE 1 OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATING SHALL BE REMOVED AS SOON AS FREEZING WEATHER EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE THAW.
14. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF THE WORK DAY.
15. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5 INCHES OR MORE AND MAKE NEEDED REPAIRS.
16. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION AFTER STABILIZATION OF DISTURBED SOIL HAS OCCURRED.
17. ADJACENT STREET INLETS SHALL BE PROTECTED WITH WISDOT TYPE D–M INLET PROTECTION. INLET PROTECTION SHALL BE REMOVED WHEN DISTURBED AREAS FLOWING TO THE INLET ARE RESTORED OR HAVE OTHER PROTECTIVE MEASURES IN PLACE.
18. FILLED/DISTRURBED OUTLOTS SHALL BE SEEDED WITHIN 10 DAYS AFTER GRADES HAVE BEEN REACHED.
19. SILT FENCE AND OTHER EROSION CONTROL DEVICES THAT ARE TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITY MUST BE REPLACED AS SOON AS THOSE ACTIVITIES ARE COMPLETED.
20. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF EROSION CONTROL DEVICES ONCE CONSTRUCTION IS COMPLETED AND VEGETATION HAS BEEN ESTABLISHED.
21. AIRBORNE DUST SHALL BE CONTROLLED BY WATERING ALL DISTURBED SOIL AREAS AND GRAVEL DRIVES WHERE WHEEL TRAFFIC IS PRESENT AND MOISTURE CONTENT OF THE SURFACE IS LOW ENOUGH TO ALLOW DUST EMISSION.

INSPECTION & MAINTENANCE:

CONSTRUCTION INSPECTION & MAINTENANCE PLAN

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT OF 0.5 INCHES OR GREATER. CONTRACTOR SHALL MAINTAIN WEEKLY WRITTEN REPORTS OF ALL INSPECTIONS AS NECESSARY TO MEET THE TOWN & COUNTY ORDINANCE, UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND RECEIVED FINAL ACCEPTANCE FROM THE TOWN & COUNTY. LOGS ARE TO BE KEPT ON SITE, AND SHALL INCLUDE THE FOLLOWING:

- TIME, DATE AND LOCATION OF INSPECTION.
- PERSONNEL COMPLETING THE INSPECTION.
- CURRENT PHASE OF THE CONSTRUCTION AT THE TIME THE INSPECTION IS OCCURRING.
- SPECIFIC ASSESSMENT OF EROSION CONTROL DEVICES.
- SPECIFIC DESCRIPTION OF MAINTENANCE OR REPAIR REQUIRED ON THE EROSION CONTROL DEVICES.
- DATE AND TIME WHEN THE REQUIRED MAINTENANCE OR REPAIRS WERE MADE.

CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROLS FOR STRUCTURAL DAMAGE, EROSION, SEDIMENT ACCUMULATION, OR ANY OTHER UNDESIRABLE CONDITION. CONTRACTOR SHALL REPAIR ANY DAMAGED STRUCTURES PRIOR TO THE END OF THE WORKING DAY. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL DEVICES WHEN THE DEPTH OF SEDIMENT HAS ACCUMULATED TO ONE HALF THE HEIGHT OF THE DEVICE. ERODED OR TRACKED SEDIMENT SHOULD BE CLEANED FROM ROADWAYS BEFORE THE END OF THE BUSINESS DAY ON WHICH IT ACCUMULATED.

IN ADDITION TO THESE REQUIREMENTS, THE CONTRACTOR IS REQUIRED TO MEET ALL ADDITIONAL TOWN OR COUNTY REQUIREMENTS AS STATED ON PERMITS AND ON THE CONSTRUCTION PLAN SHEETS.

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 TOWN OR COUNTY NOTIFIES THE APPLICANT OF CHANGES NEEDED IN THE PLAN. THE TOWN & COUNTY SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO MAKING CHANGES TO THE PLAN.

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.

KEY NOTES

CONSTRUCTION EROSION & SEDIMENT CONTROL PRACTICES

The following erosion and sediment control practices apply only to the proposed site development at American Drive & Clayton Ave. Site development equipment that is expected to be used will include backhoes, front end loaders and bulldozers.

All erosion and sediment control practices shall be in accordance with the Wisconsin Construction Site Technical Standards. Erosion and sediment control practices shall be in place prior to disturbing the site. Erosion and sediment control practices that **may** be used for this project are described as follows:

1. Clear Stone, Hay Bale or Manufactured Ditch Check - Purpose is to reduce runoff velocity in channels, ditches, or swales in order to allow larger sediment particles to settle.
2. Rip-Rap Protection - Rip-rap and filter fabric prevent scour and erosion from occurring within streams, channels, ditches, swales, culvert outlets, or storm sewer outlets.
3. Silt Fence - Purpose is to intercept and detain sheet flow runoff from disturbed areas for sufficient time to allow larger sediment particles to settle out.
4. Construction Entrance - Construction entrances reduce the amount of mud transported onto public roads by vehicles, equipment, and storm water runoff.
5. Street Sweeping - Street sweeping collects mud that is transported onto public roads by vehicles, equipment and storm water runoff.
6. Mulching - Purpose is to reduce erosion by dissipating raindrop impact energy and reducing sheet flow velocity. Mulching also fosters grass seed growth. Mulching shall be performed within 7 days of the end of active soil disturbance.
7. Seeding - Purpose is to stabilize disturbed areas by planting grass seed in order to minimize erosion and reduce runoff velocity. Seeding shall be performed within 7 days of the end of active soil disturbance.
8. Erosion Blankets - Erosion blankets protect disturbed slopes and ditches from erosion.

ANTICIPATED CONSTRUCTION GRADING & EROSION CONTROL PLAN

This sequence is approximate. Days are measured as calendar days, not working days. Work tasks could be done concurrently.

1. Hold preconstruction conference.
2. Install gravel construction entrance and erosion control provisions as shown on the plan. (Days 1-2, June 2- 3)
3. Contact the town and county to notify them that the site grading is to begin and erosion control is installed. (Day 3, June 4)
4. Strip topsoil & remove trees from areas where the parking lot and building are to be constructed. Stockpile material on site. (Days 4-12, June 5-13)
5. Complete storm sewer and water/sanitary lateral construction. Install outlet protection at the storm sewer outlet structure. (Days 13-17, June 14- 18)
6. Fill and rough grade site as deemed necessary by the contractor. Stockpile excess material on site. Add parking lot gravel base. (Day 18-26, June 19-27)
7. Begin and finalize substantial building construction (Days 22-59, June 23-August 29)
8. Finalize pavement construction. (Days 41-52, August 11-22)
9. Complete fine grading and landscaping. Permanently stabilize disturbed areas, cut and fill areas, and lawn areas. (Days 55-59, August 25-29)

CONSTRUCTION INSPECTION & MAINTENANCE PLAN

All temporary and permanent erosion and sediment controls shall be inspected by the contractor every 7 days and within 24 hours after a precipitation event of 0.5 inches or greater. Contractor shall maintain weekly written reports of all inspections as necessary to meet the Town & County ordinances, until the site has undergone final stabilization and received final acceptance from the Town & County. Logs are to be kept on site, and shall include the following:

- Time, date and location of inspection.
- Personnel completing the inspection.
- Current phase of the construction at the time the inspection is occurring.
- Specific assessment of erosion control devices.
- Specific description of maintenance or repair required on the erosion control devices.
- Date and time when the required maintenance or repairs were made.

Contractor shall inspect erosion and sediment controls for structural damage, erosion, sediment accumulation, or any other undesirable condition. Contractor shall repair any damaged structures prior to the end of the working day. Sediment shall be removed from erosion control devices when the depth of sediment has accumulated to one half the height of the device. Eroded or tracked sediment should be cleaned from roadways before the end of the business day on which it accumulated.

In addition to these requirements, the contractor is required to meet all additional Town & County regulations as stated on permits and on the construction plan sheets.

POST CONSTRUCTION WATER QUALITY, PEAK FLOW

This site eventually drains to a navigable stream tributary to Mud Creek, which is not listed on the State's 303d list of impaired waters. The use of stormwater devices, and good housekeeping maintenance practices will help to maintain the quality of the navigable stream and Mud Creek:

- The regional detention pond reduces peak flow rates & erosive stormwater discharge velocities, along with removing suspended solids from the water.
- Fertilizers used on the lawn during the construction restoration process, and during post construction site maintenance, are to have low/no phosphorous component. At the discretion of the owner, fertilizer should be based on a soil sample from a trusted soil scientist.

McMAHON ENGINEERS ARCHITECTS
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1445 McMAHON DRIVE NEENAH, WI 54956
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NO.	DATE	REVISION

TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
EROSION CONTROL NOTES

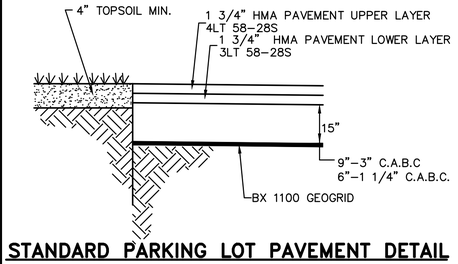
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PROJECT NO.
T0607–09–25–00284

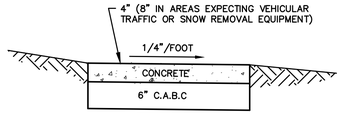
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APRIL 10, 2025

SHEET NO.
10

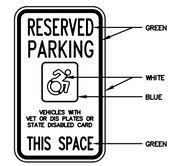
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STANDARD PARKING LOT PAVEMENT DETAIL

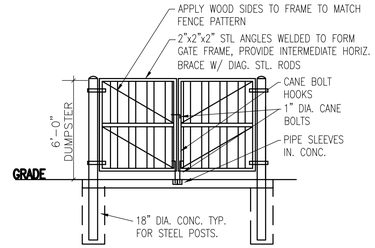


CONCRETE SIDEWALK

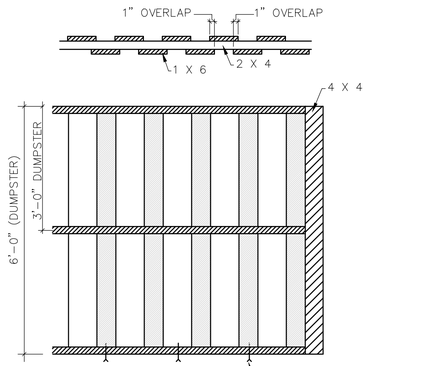


THE NEW OFFICIAL SIGN FOR HANDICAPPED PARKING SPACES.

H.C. PARKING SIGN



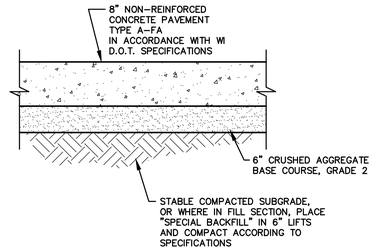
TYPICAL TRASH ENCLOSURE GATE ELEVATION



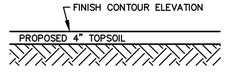
TYPICAL FENCE ELEVATION

GATE TO BE 1 1/2" PRIMED STEEL ANGLE REINFORCED WITH 1/4" STEEL RODS. WOOD SIDING TO COMPLEMENT BUILDING APPEARANCE. USE HEAVY-DUTY HINGES & PADLOCK LATCH.
FENCE CONSTRUCTED OF C.C.A. PRESSURE TREATED PINE AND STAINED/PAINTED TO COMPLEMENT BUILDING COLOR.

FENCE ENCLOSURE/SCREENING DETAILS

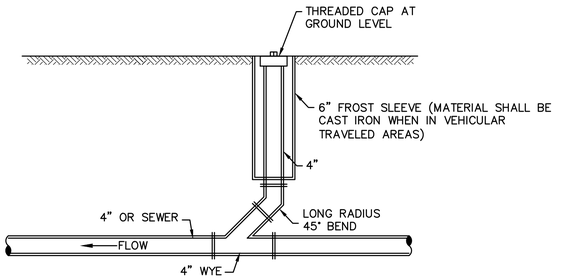


CONCRETE PAVEMENT DETAIL

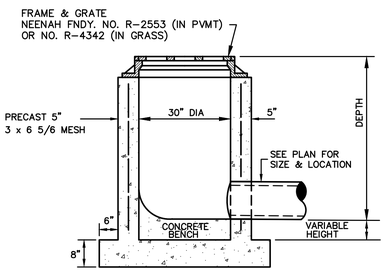


TYPICAL LANDSCAPED SECTION

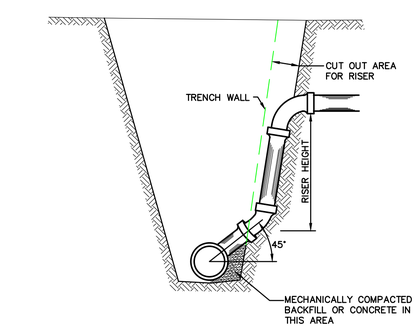
USE CLASS I TYPE A EROSION MAT ON SIDE SLOPES 5:1 OR STEEPER.



CLEANOUT DETAIL

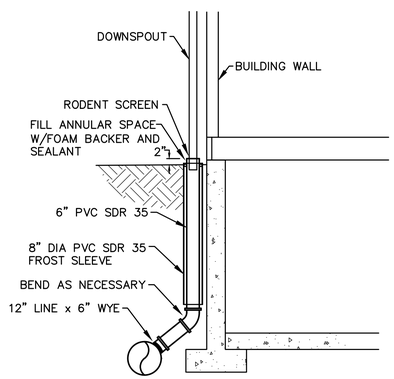


CATCH BASIN DETAIL



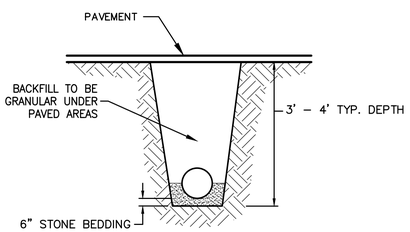
TYPICAL CONNECTION SEWER & WATER

SANITARY LATERAL RISER

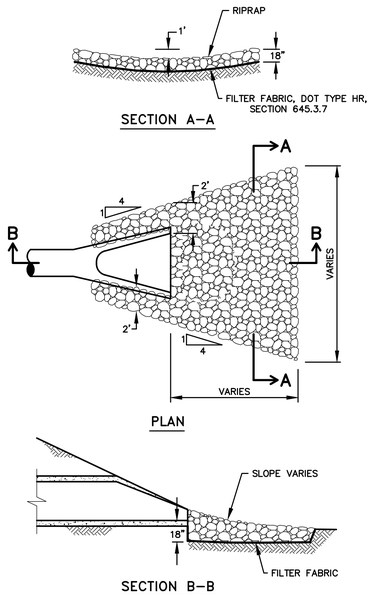


DOWNSPOUT CONNECTION

NOTE: CONTRACTOR TO VERIFY WITH INDIVIDUAL BUILDING PLUMBING PLANS, ROOF DRAINAGE PLANS.



TYPICAL STORM SEWER INSTALLATION



RIPRAP AT APRON

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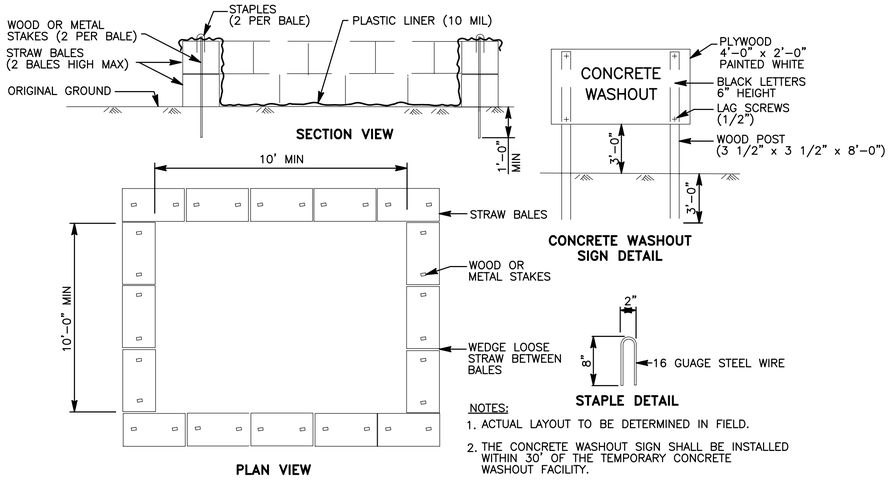
NO.	DATE	REVISION

TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
MISCELLANEOUS DETAILS

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BTH	CKA

PROJECT NO. T0607-09-25-00284
DATE APRIL 10, 2025
SHEET NO. 11

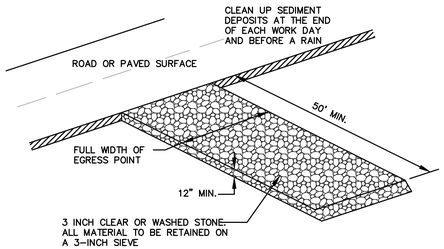
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NOTES:

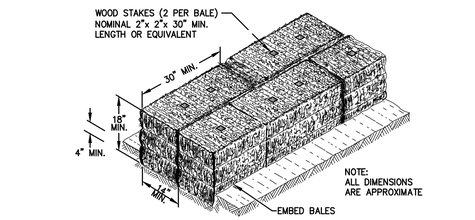
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

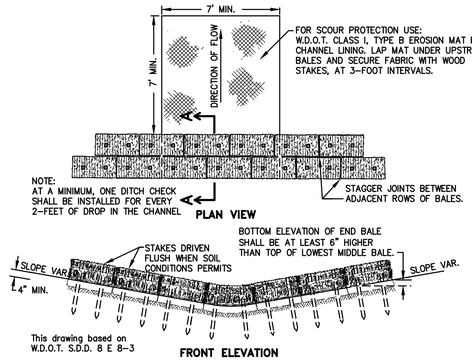
TEMPORARY CONCRETE WASHOUT FACILITY

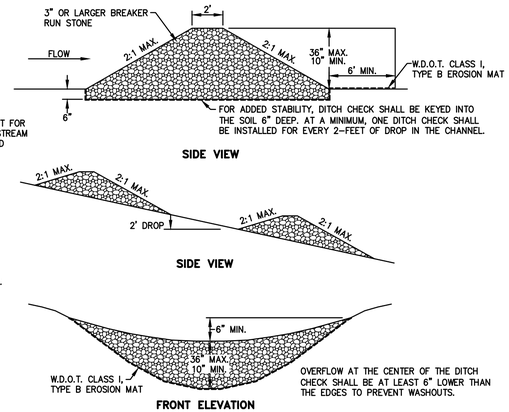


TRACKOUT CONTROL DETAIL

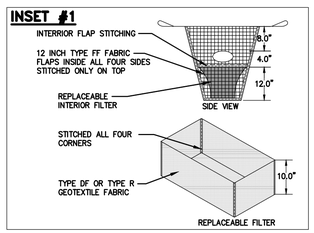
1. DIVERT FLOW AWAY FROM TRACKING PAD USING CULVERTS, SHALLOW TRENCH OR DIVERSION DAM.
2. ROCKS LODGED BETWEEN THE TIRES OF DUAL VEHICLES SHALL BE REMOVED PRIOR TO LEAVING THE SITE.
3. ON SITES WITH A HIGH WATER TABLE OR STURATED SOILS, INSTALL A DOT TYPE R GEOTEXTILE FABRIC UNDER STONE TRACKING PAD.
4. MAINTAIN UNTIL SITE IS PAVED/STABILIZED
5. USING A FODS TRACKOUT SYSTEM INSTEAD OF THE STONE-BASED TRACKOUT CONTROL SYSTEM IS ACCEPTABLE.







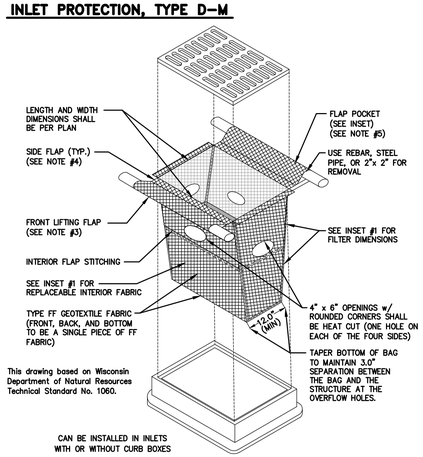
DITCH CHECK DETAIL



GENERAL NOTES

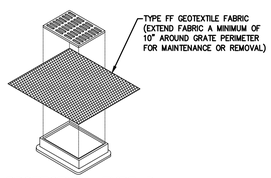
1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

INLET PROTECTION, TYPE D-M



MAINTENANCE NOTES

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.



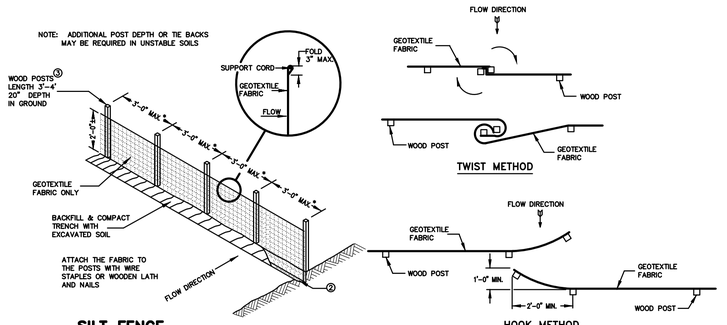
INLET PROTECTION, TYPE B

WITHOUT CURB BOX

MAINTENANCE NOTES

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

STORM DRAIN INLET PROTECTION



This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6.

GENERAL NOTES

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1" X 1" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOD JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

JOINING TWO LENGTHS OF SILT FENCE (5)

NOTE: CAN SUBSTITUTE SILT SOCKS FOR SILT FENCE.

TRENCH DETAIL

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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TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
MISCELLANEOUS DETAILS 2

DESIGNED	DRAWN
BTH	CKA

PROJECT NO.
T0607-09-25-00284

DATE
APRIL 10, 2025

SHEET NO.
12

cadler, W:\PROJECTS\T0607\92500284\CADD\Civil3D\Plan Sheets\01 Abbrev-Sym-Notes-Details.dwg, 12 miscellaneous details 2, Plot Date: 4/10/2025 3:55 PM, xrefs:none



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NO.	DATE	REVISION

TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
SITE CONCEPT

DESIGNED	DRAWN
BTH	CKA

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T0607-09-25-00284

DATE
APRIL 10, 2025

SHEET NO.
13

codier, W:\PROJECTS\T0607\92500284\CADD\Civil3D\Plan Sheets\GRADING PLAN – FULL SITE.dwg, 13 site concept, Plot Date: 4/10/2025 3:56 PM, xrefs:none

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TRIDENT HOLDINGS LLC
TOWN OF CLAYTON, WINNEBAGO COUNTY, WI
TRUCK TURNING TEMPLATE

DESIGNED	DRAWN
BTH	CKA

PROJECT NO.
T0607-09-25-00284

DATE
APRIL 10, 2025

SHEET NO.
14

codler, W:\PROJECTS\T0607_92500284\CADD\Civil3D\Plan Sheets\truck turning template.dwg, 12 truck turning template, Plot Date: 4/10/2025 3:56 PM, xrefs:none

Metal Sales Manufacturing Corporation Technical Bulletin
Section: Energy **Date:** 10/29/2021
Title: 3.04.02.07 Energy Data for Colors and Finishes **Page:** 4 of 9

Finish: MS Colorfast45®
Paint on AZ50 material.

Color	Color Code	Solar Reflectance Initial	Solar Reflectance Aged	Thermal Emittance Initial	Thermal Emittance Aged	Solar Reflectance Index (SRI) Initial	Solar Reflectance Index (SRI) Aged	CRRC Listed	ENERGY STAR Compliant	LEED v4.1 Compliant
Antique Bronze	D4	0.34		0.86		35		yes	steep	no
Ash Grey	25	0.49		0.86		56		yes	steep	steep
Black	06	0.33		0.85		34		yes	steep	no
Bone White	94	0.61		0.86		72		no	steep	steep
Bright White	39	0.69		0.85		83		no	low/steep	low/steep
Brown	12	0.32		0.86		33		yes	steep	no
Buckskin	H10	0.34		0.86		35		yes	steep	no
Burgundy	15	0.25		0.86		24		no	steep	no
Burnished Slate	49	0.32		0.86		33		yes	steep	no
Carlsbad Canyon	10	0.49		0.86		56		no	steep	steep
Charcoal	17	0.35		0.86		37		yes	steep	no
Covert Green	R8	0.40		0.86		43		no	steep	steep
Dark Brown	44	0.27		0.86		26		yes	steep	no
Dark Red	46	0.36		0.86		38		no	steep	no
Denali Green	W1	0.29		0.85		28		no	steep	no
Earth Brown	43	0.29		0.86		29		no	steep	no
Evergreen	47	0.29		0.85		28		no	steep	no
Fab. Charcoal	F2	0.29		0.86		29		no	steep	no
Fern Green	07	0.26		0.86		25		yes	steep	no
Forest Green	26	0.27		0.85		26		yes	steep	no
Goldenrod	48	0.54		0.86		63		no	steep	steep
Hawaiian Blue	70	0.34		0.86		35		no	steep	no
Hickory Moss	F1	0.48		0.86		54		no	steep	steep
Ivory	28	0.65		0.86		78		no	low/steep	steep
Light Stone	63	0.58		0.86		68		yes	steep	steep
Matte Black	106	0.30		0.86		30		yes	steep	no

SRI INDEX OF WALLS

Metal Sales Manufacturing Corporation Technical Bulletin
Section: Energy **Date:** 10/29/2021
Title: 3.04.02.07 Energy Data for Colors and Finishes **Page:** 5 of 9

Finish: MS Colorfast45® continued

Color	Color Code	Solar Reflectance Initial	Solar Reflectance Aged	Thermal Emittance Initial	Thermal Emittance Aged	Solar Reflectance Index (SRI) Initial	Solar Reflectance Index (SRI) Aged	CRRC Listed	ENERGY STAR Compliant	LEED v4.1 Compliant
Mocha Brown	13	0.26		0.85		24		no	steep	no
Mocha Tan	22	0.52		0.86		60		yes	steep	steep
Native Copper	190	0.34		0.84		35		no	steep	no
Ocean Blue	35	0.34		0.86		35		yes	steep	no
Patina Green	58	0.40		0.86		43		no	steep	steep
Patriot Red	73	0.40		0.86		43		no	steep	steep
Polar White	80	0.65		0.86		78		yes	low/steep	steep
Quaker Grey	52	0.32		0.86		33		no	steep	no
Rawhide	53	0.48		0.86		54		no	steep	steep
Red	24	0.37		0.86		39		yes	steep	steep
Shale Green	R7	0.36		0.86		38		no	steep	no
Sierra Green	20	0.36		0.86		38		yes	steep	no
Tahoe Blue	W3	0.35		0.86		37		no	steep	no
Taupe	74	0.40		0.86		43		yes	steep	steep
Territone Bronze	62	0.29		0.86		29		no	steep	no
White	30	0.66		0.86		79		yes	low/steep	steep
Zinc Grey	29	0.42		0.86		46		no	steep	steep

SRI INDEX OF ROOF AND TRIM
(MIN TOWN REQUIREMENT IS 29)

SITE PLAN LEGEND

- PROPERTY LINE
- BUILDING SETBACK
- PAVEMENT SETBACK
- NEW BUILDING
- EXISTING BUILDING
- FUTURE BUILDING



1 **ARCHITECTURAL SITE PLAN**
1" = 60'-0"

N
W E
S

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DESIGN - WELDING
2201 Eastline Road
Kaukauna, WI 54130
Phone: (920) 766-9305
Toll Free: (800) 236-1369
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TOWN OF CLAYTON
WINNEBAGO COUNTY

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P1 01-23-24
P2 01-27-25
P3 02-03-25
P4 03-03-25
-
-
-
-
-
-

P# = PRELIMINARY PLAN
IFS = ISSUED FOR STATE REVIEW
IFC = ISSUED FOR CONSTRUCTION

PROJECT #: **240065**
PROJ. MGR: **M. KLARNER**
DRAWN BY: **AWS**

SHEET CONTENTS:
ARCHITECTURAL SITE PLAN

C1.1

DOOR SCHEDULE

NO.	MODEL	QTY.	DOOR SIZE	ROUGH OPENING	MATERIAL		HARDWARE	REMARKS
					DOOR	FRAME		
1	INSULATED OVERHEAD DOOR	5	14'-0" x 14'-0"	168" x 168"	STEEL	N/A		
2	PLYCO 20 SERIES W/ 9-LITE	5	3'-0" x 6'-8"	40 3/8" x 81 3/4"	STEEL	STEEL	C, L1	
3	PLYCO 20 SERIES	6	3'-0" x 6'-8"	40 3/8" x 81 3/4"	STEEL	STEEL	C, L1	
4	PLYCO 20 SERIES	5	3'-0" x 6'-8"	40 3/8" x 81 3/4"	STEEL	STEEL	L2	

DOOR HARDWARE KEY

C CLOSURE

L1 ENTRANCE
TURN/PUSH-BUTTON LOCKING: PUSHING AND TURNING BUTTON LOCKS OUTSIDE LEVER REQUIRING USE OF KEY UNTIL BUTTON IS MANUALLY UNLOCKED

L2 PRIVACY
PUSH-BUTTON LOCKING. CAN BE OPENED FROM OUTSIDE WITH SMALL SCREWDRIVER. TURNING INSIDE LEVER OR CLOSING DOOR RELEASES BUTTON.

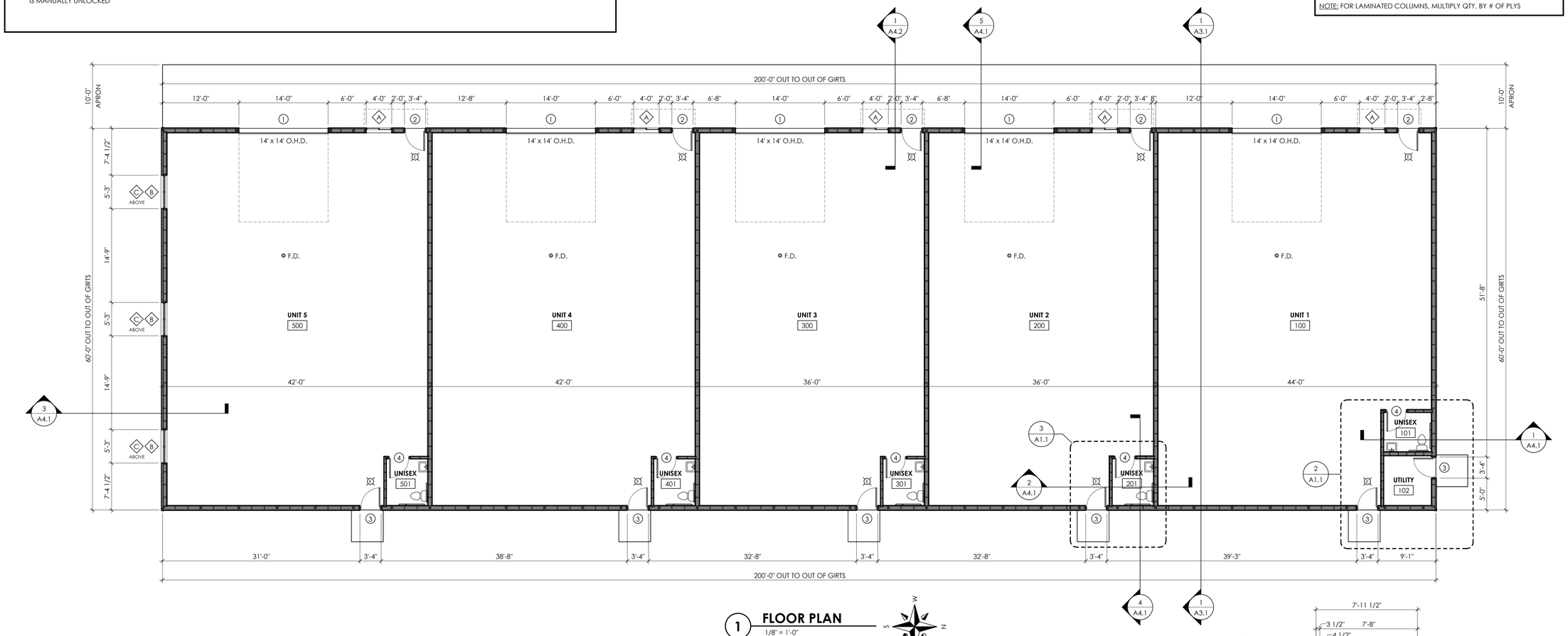
WINDOW SCHEDULE

NO.	MODEL	QTY.	WINDOW SIZE	ROUGH OPENING	HEAD HEIGHT	REMARKS
A	VINYL SLIDING	5	4'-0" x 3'-0"	48 1/2" x 36 1/2"	6'-10"	
B	ALUMINUM WINDOW 5'-3" x 6'-0"	3	5'-3" x 6'-0"	63" x 72"	10'-0"	
C	ALUMINUM WINDOW 5'-3" x 2'-0"	3	5'-3" x 2'-0"	63" x 24"	15'-0"	

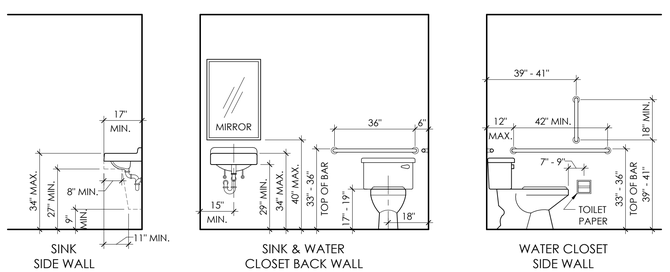
COLUMN / STUD SPECIFICATIONS

#		3-PLY 2x6 2400f-2.0E MSR COLUMNS @ 6'-0" O.C. UNDER TRUSSES & H-2 HEADERS
#		2x6 #2 SPF STUDS @ 24" O.C BETWEEN SIDEWALL COLUMNS, TOTAL ENDWALLS, UNIT DEMISING WALLS
#		2x6x92 5/8" PRECUT STUDS @ 16" O.C. BATHROOM PLUMBING WALLS
#		2x4x92 5/8" PRECUT STUDS @ 16" O.C. BATHROOM WALLS
#		2-PLY 2x6 #2 SPF COLUMNS @ H-3 HEADERS
#		4-PLY 2x8 2400f-2.0E MSR COLUMN @ H-1 HEADERS

NOTE: FOR LAMINATED COLUMNS, MULTIPLY QTY. BY # OF PLYS



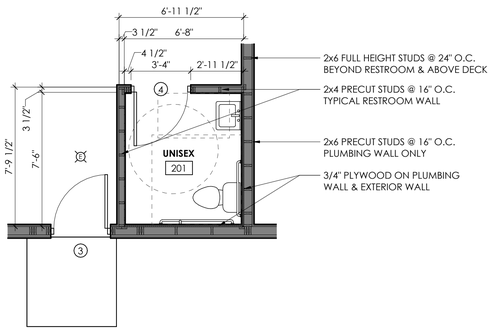
1 FLOOR PLAN
1/8" = 1'-0"



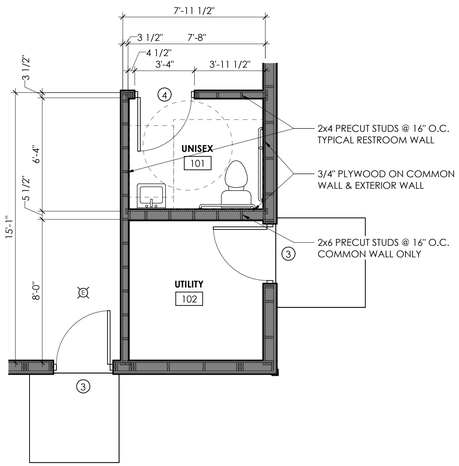
TYPICAL PLUMBING FIXTURES MOUNTING HEIGHTS

NOTE:
1. RESTROOM FLOORS TO HAVE A SMOOTH, HARD, NON-ABSORBANT SURFACE EXTENDING AT LEAST 4" UPWARD ONTO WALLS PER IBC 1210.2.1
2. RESTROOM WALLS TO HAVE A SMOOTH, HARD, NON-ABSORBANT SURFACE PER IBC 1210.2.2
3. PROVIDE ADEQUATE BLOCKING FOR TOILET ACCESSORIES
4. PROVIDE PIPE PROTECTION FOR SUPPLY & DRAIN PIPES

4 PLUMBING STANDARDS
3/8" = 1'-0"



3 ENLARGED RESTROOM PLAN
1/4" = 1'-0"



2 ENLARGED RESTROOM & UTILITY PLAN
1/4" = 1'-0"

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WINNEBAGO COUNTY

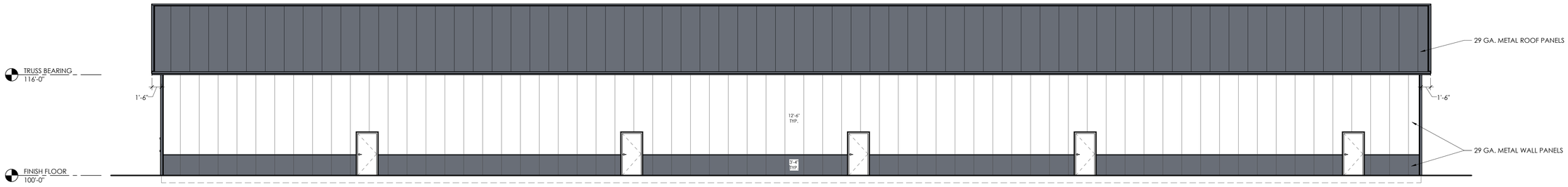
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P1 01-23-24
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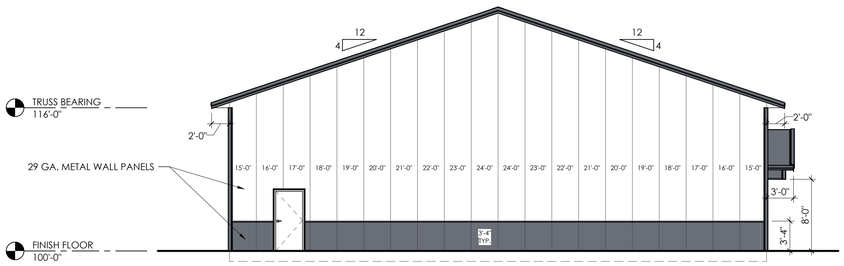
PROJECT #: **240065**
PROJ. MGR: **M. KLARNER**
DRAWN BY: **AWS**

SHEET CONTENTS:
FLOOR PLAN

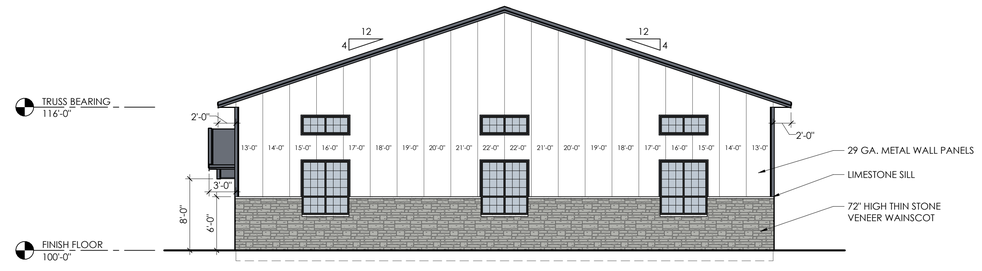
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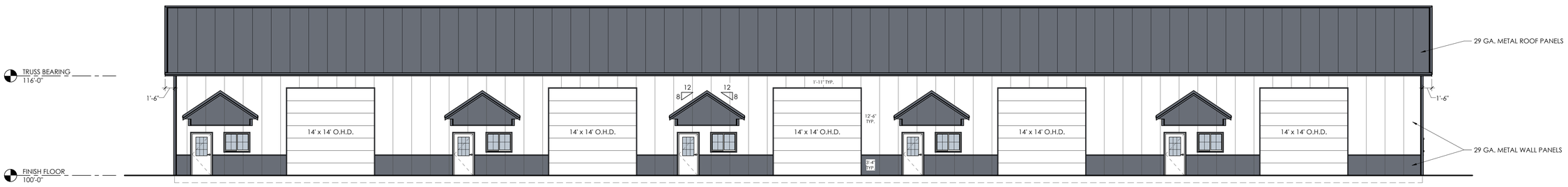
4 EAST ELEVATION
1/8" = 1'-0"



3 NORTH ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"



1 WEST ELEVATION
1/8" = 1'-0"

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TOWN OF CLAYTON
WINNEBAGO COUNTY

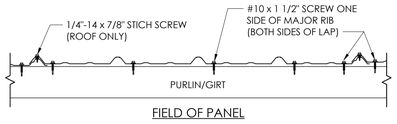
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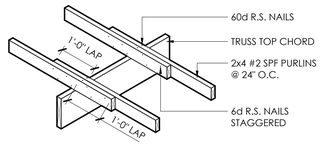
PROJECT #: **240065**
PROJ. MGR: **M. KLARNER**
DRAWN BY: **AWS**

SHEET CONTENTS:
ELEVATIONS

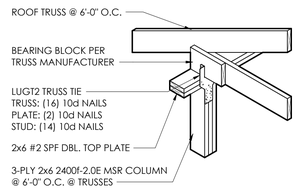
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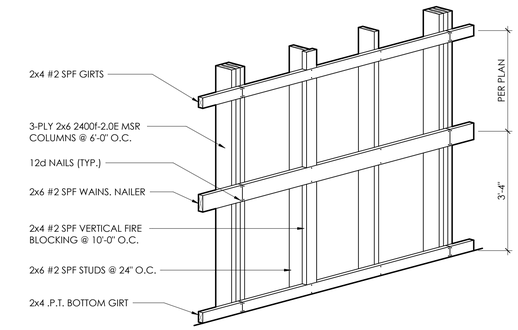
6 SHEET STEEL CONNECTION
1 1/2" = 1'-0"



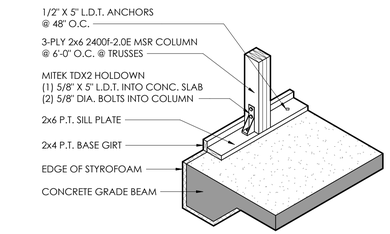
5 PURLIN CONNECTION
1/2" = 1'-0"



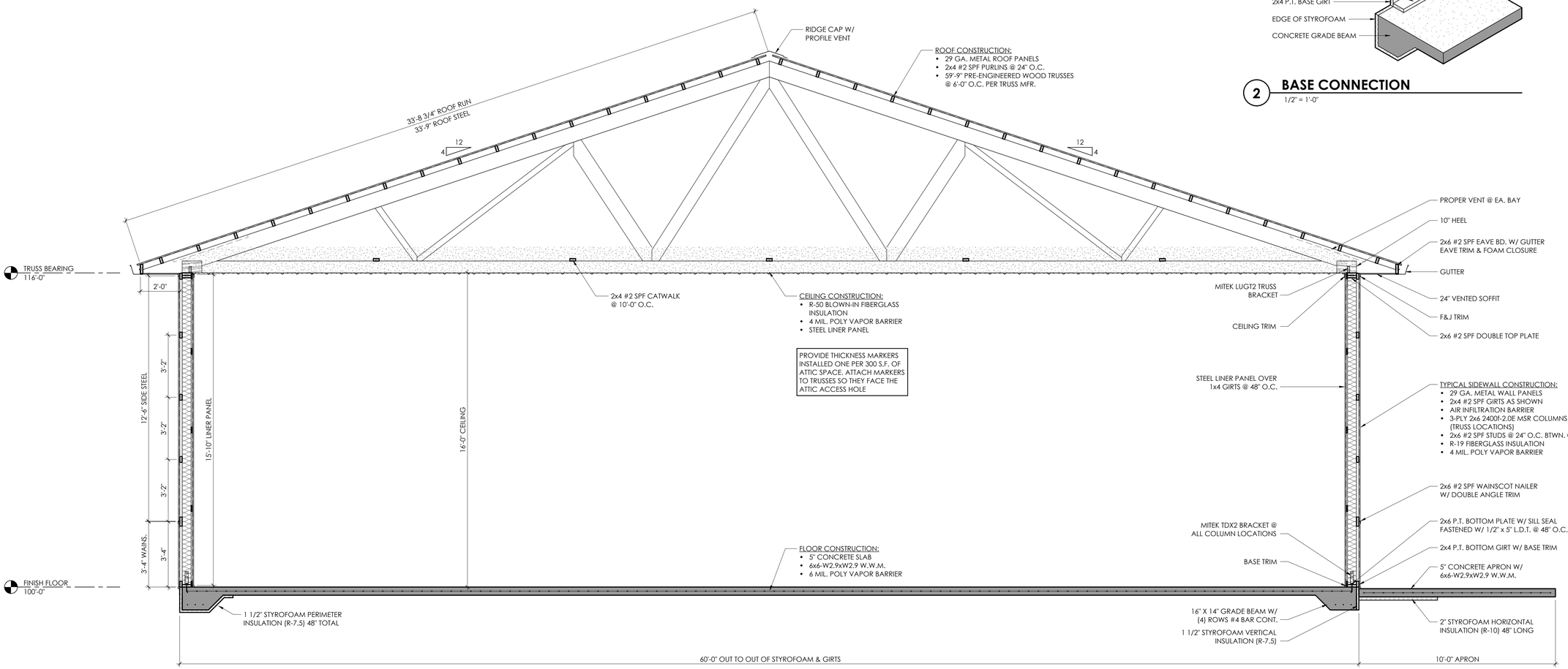
4 TRUSS CONNECTION
1/2" = 1'-0"



3 GIRT CONNECTION
1/2" = 1'-0"



2 BASE CONNECTION
1/2" = 1'-0"



1 CROSS SECTION
3/8" = 1'-0"

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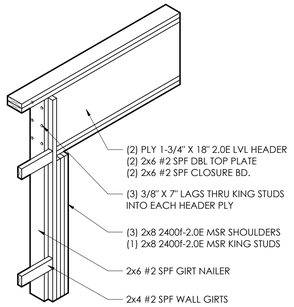
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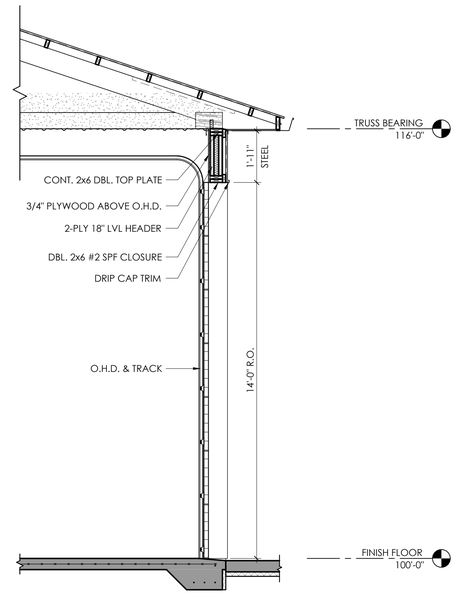
PROJECT #: **240065**
PROJ. MGR: **M. KLARNER**
DRAWN BY: **AWS**

SHEET CONTENTS:
CROSS SECTIONS

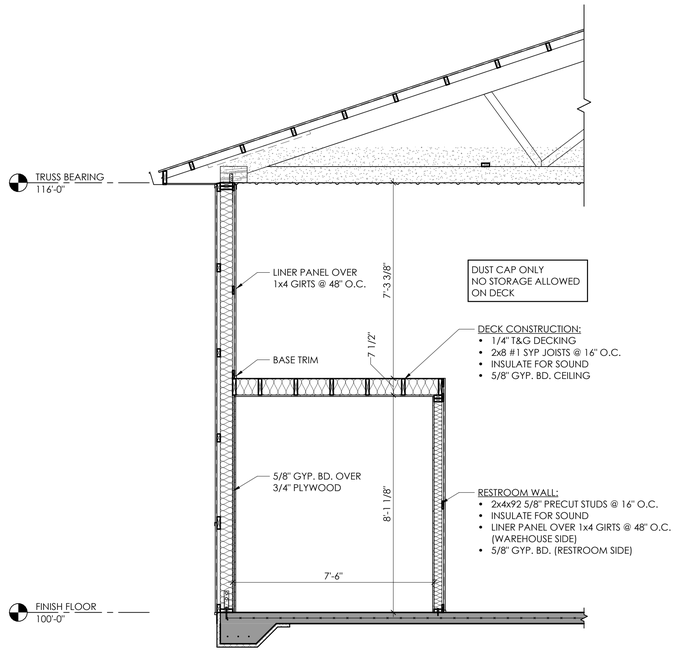
A3.1



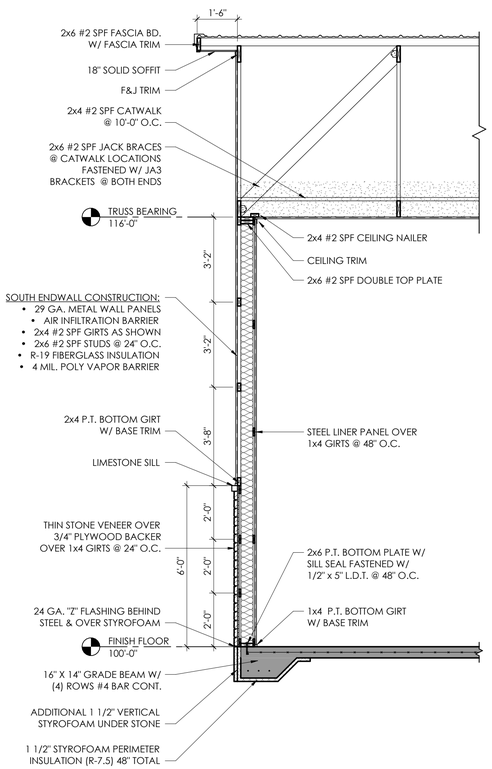
6 O.H.D. HEADER & JAMB
1/2" = 1'-0"



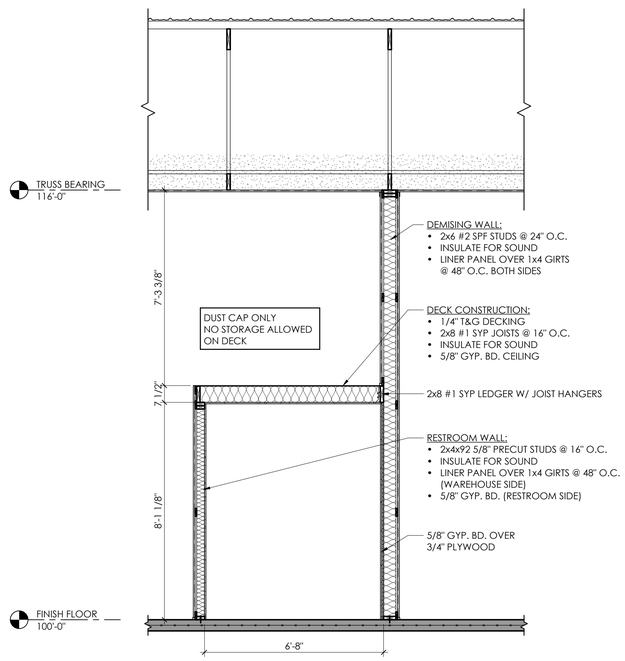
5 WALL SECTION @ O.H.D.
3/8" = 1'-0"



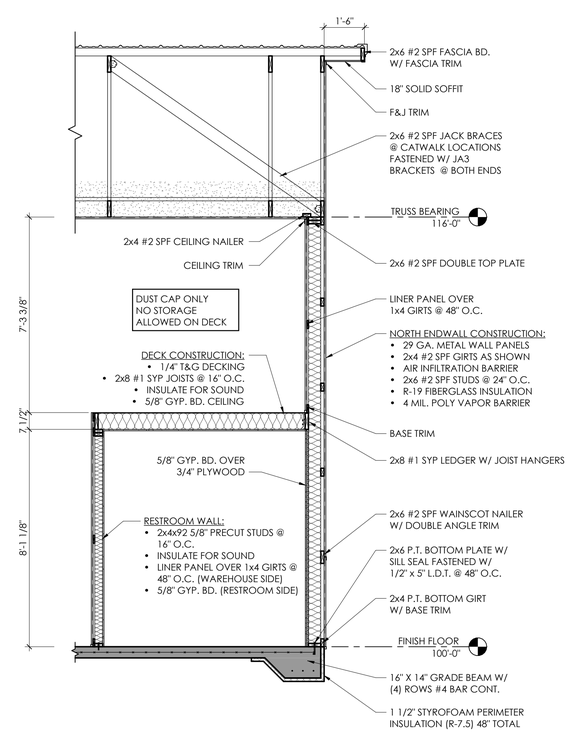
4 WALL SECTION @ RESTROOM
3/8" = 1'-0"



3 SOUTH ENDWALL SECTION
3/8" = 1'-0"



2 RESTROOM SECTION
3/8" = 1'-0"



1 NORTH ENDWALL SECTION
3/8" = 1'-0"

NOT FOR CONSTRUCTION

CONSTRUCTION
DESIGN - WELDING
2201 Eastline Road
Kaukauna, WI 54130
Phone: (920) 766-9305
Toll Free: (800) 236-1369
foxstructures.com

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PROPOSED FOR:
TRIDENT HOLDINGS LLC
WEST AMERICAN DR
NEENAH, WISCONSIN 54956

TOWN OF CLAYTON
WINNEBAGO COUNTY

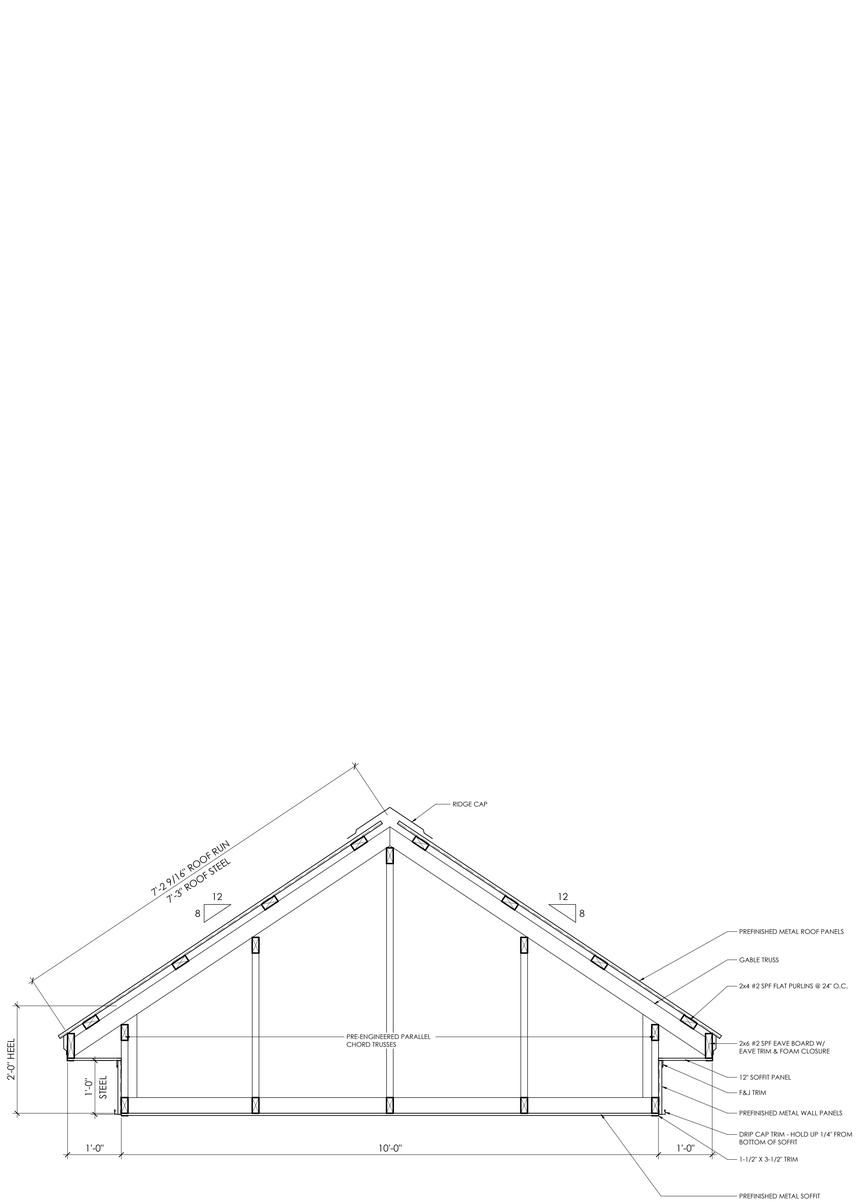
ISSUE RECORD:
P1 01-23-24
P2 01-27-25
P3 02-03-25
P4 03-03-25
-
-
-
-
-

P# = PRELIMINARY PLAN
IFS = ISSUED FOR STATE REVIEW
IFC = ISSUED FOR CONSTRUCTION

PROJECT #: **240065**
PROJ. MGR: **M. KLARNER**
DRAWN BY: **AWS**

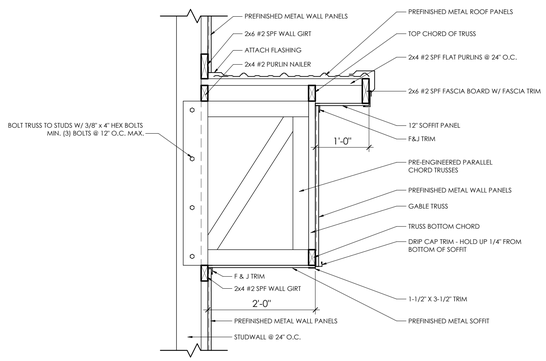
SHEET CONTENTS:
WALL SECTIONS

A4.1



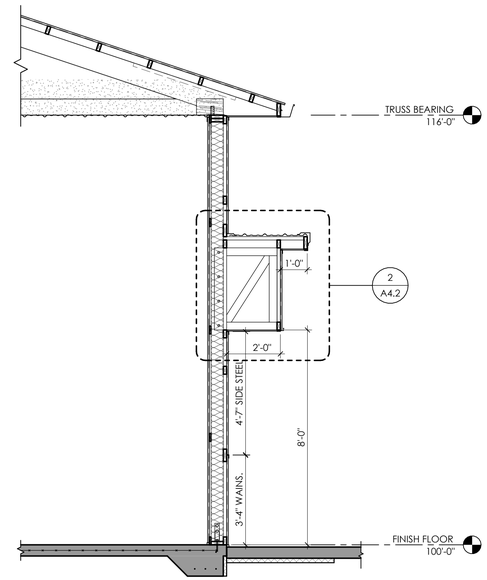
3 MANSARD SECTION

3/4" = 1'-0"



2 MANSARD DETAIL

3/4" = 1'-0"



1 WALL SECTION @ MANSARD

3/8" = 1'-0"

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PROPOSED FOR:

TRIDENT HOLDINGS LLC

WEST AMERICAN DR

NEENAH, WISCONSIN 54956

TOWN OF CLAYTON
WINNEBAGO COUNTY

ISSUE RECORD:

P1	01-23-24
P2	01-27-25
P3	02-03-25
P4	03-03-25
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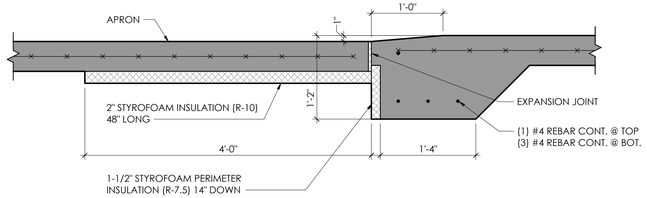
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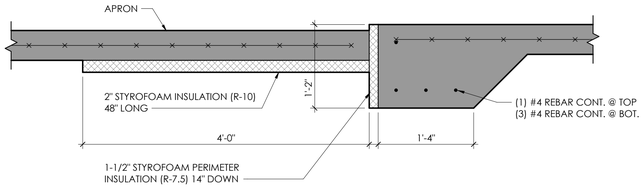
SHEET CONTENTS:

MANSARD DETAILS

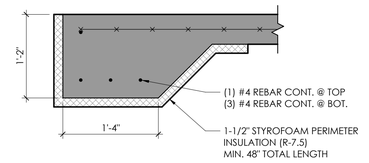
A4.2



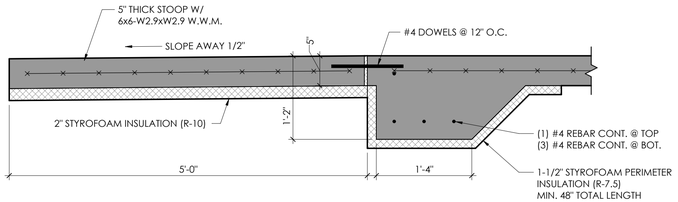
4 O.H.D. OPENING
1" = 1'-0"



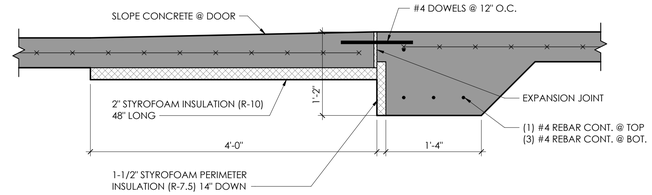
3 GRADE BEAM @ APRON
1" = 1'-0"



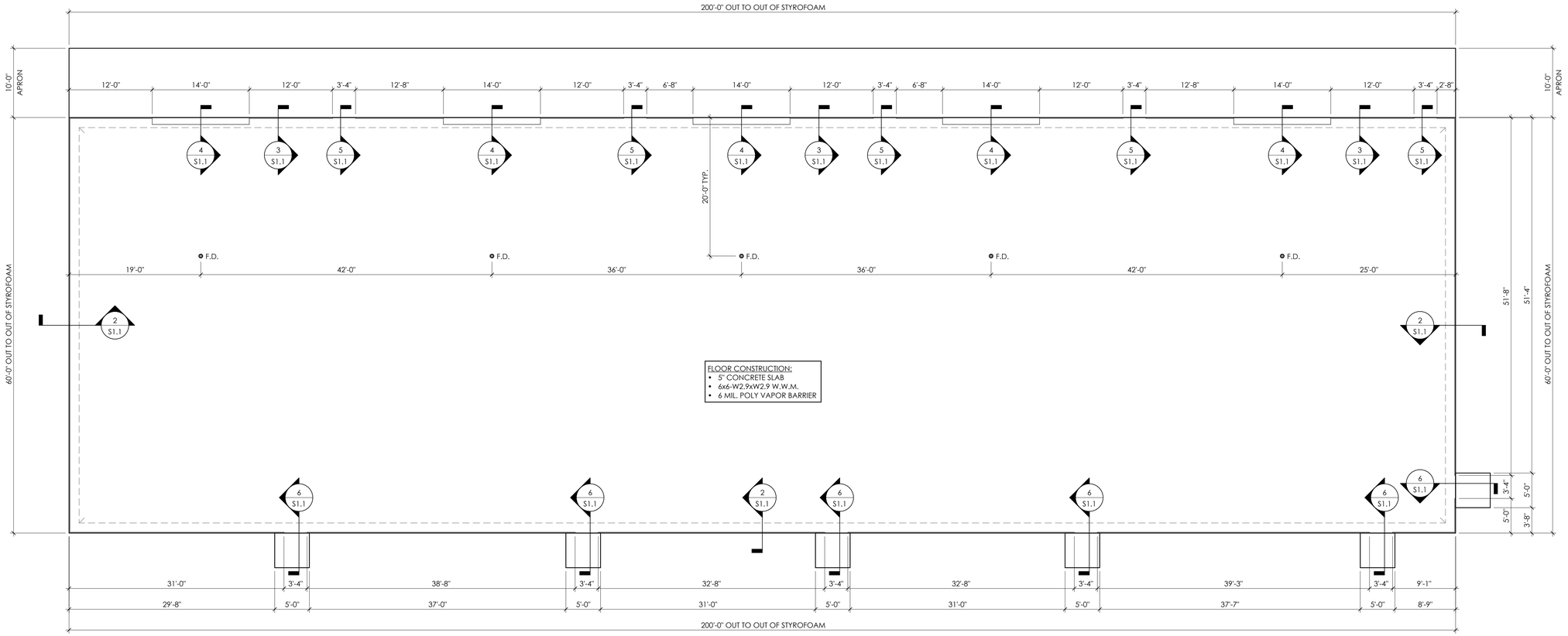
2 GRADE BEAM
1" = 1'-0"



6 STOOP DETAIL
1" = 1'-0"



5 WALK DOOR @ APRON
1" = 1'-0"



1 FOUNDATION PLAN
1/8" = 1'-0"

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TOWN OF CLAYTON
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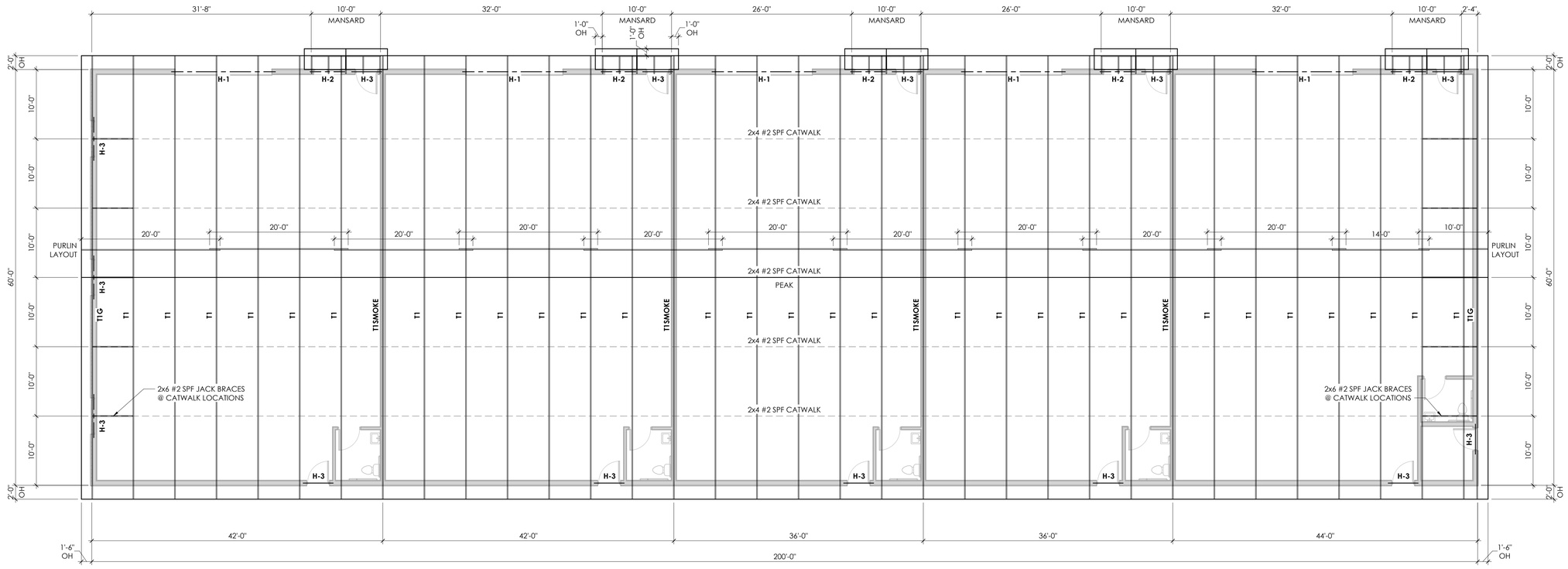
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PROJECT #: **240065**
PROJ. MGR: **M. KLARNER**
DRAWN BY: **AWS**

SHEET CONTENTS:
FOUNDATION PLAN

S1.1

HEADER SCHEDULE			
TAG	HEADER	SHOULDER STUDS	KING STUDS
H-1	(2) 1 3/4" x 18" LVL	(3) 2x8 2400f-2.0E MSR	(1) 2x8 2400f-2.0E MSR
H-2	(2) 2x12 2400f-2.0E MSR	(2) 2x6 2400f-2.0E MSR	(1) 2x6 2400f-2.0E MSR
H-3	(2) 2x12 #2 SPF	(1) 2x6 #2 SPF	(1) 2x6 #2 SPF



1 ROOF FRAMING PLAN

1/8" = 1'-0"

ATTIC DRAFTSTOPPING:
1. 3,000 S.F. MAXIMUM AREA BETWEEN DRAFTSTOPS PER IBC 718.4.3
2. TRUSS TO BE COVERED W/ DRAFTSTOPPING MATERIALS IN ACCORDANCE W/ IBC 718.3.1
3. PROVIDE 20" X 30" MINIMUM SELF-CLOSING DOOR W/ AUTOMATIC LATCHES PER IBC 718.4.1.1 & IBC 1209.2

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WEST AMERICAN DR
NEENAH, WISCONSIN 54956

TOWN OF CLAYTON
WINNEBAGO COUNTY

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PROJECT #: **240065**
PROJ. MGR: **M. KLARNER**
DRAWN BY: **AWS**

SHEET CONTENTS:
ROOF FRAMING PLAN

S2.1

WINNEBAGO COUNTY EROSION CONTROL and STORMWATER MANAGEMENT APPLICATION FOR

Item D.

Zoning: (920) 232-3344 112 Otter Ave., PO Box 2808, Oshkosh WI 54903-2808

OWNER

(must be owner's name of record)

Name: TOWN OF CLAYTON

Address: 8348 HICKORY AVE

City: Larsen State: WI Zip: 54947

Telephone Home (920) 836-2007

Cell ( )

E-mail: administrator@claytonwinnebagowi.gov

TYPE OF REQUEST

- ○ Erosion Control
  - Single Parcel
  - General Permit (for Municipality/Utility permits only)
- ◉ Stormwater Permit
  - ◉ Commercial
  - ○ Industrial
  - ○ Subdivision

Project Start Date

6/2/25

Estimated End Date

8/29/25

(This time frame should include the completed landscaping)

SEND PERMIT TO: ☑ Owner by: ☑ E-mail ☐ Mail ☑ Applicant by: ☑ E-mail ☐ Mail

APPLICANT

Name/Co. Trident Holdings LLC - Barry Gill Managing Member

Address: 501 S. Nicolet Road

City: Appleton State: WI Zip: 54914

Telephone Home ( )

Cell (920) 840-4112

E-Mail: bpgill@gillandgillsc.com

SITE LOCATION

STOP - if this property does not have an address assigned by **OUR** office, complete the on-line Address Request Application prior to submitting this application.

Address: TBD

Parcel No. 00603400301 Town of: Clayton

Plat/CSM 7739 Lot # 1 Lot Size 8.17ac Sec 12 T 20 R 16

Describe type of proposed project (new home, shed, etc.), work to be done and provide a description and location of erosion control measures.

Trident Holdings is proposing to construct a commercial-mixed development on the eastern end of the vacant parcel, located between 2615 W American Drive & 9023 Clayton Ave. Phase 1 of the development includes one building, parking lot, sidewalk, dumpster enclosure, landscaping, and storm sewer that directs runnoff to the Town of Clayton's regional stormwater pond. The full future development includes five buildings with paved areas, storm sewer, landscaping, dumpster enclosure(s), building and parking lot lighting and a stormwater device. Phase 1 is planned to occur this summer, with the remainder of the phases occurring over the next five years. Erosion control includes silt fence, hay bales, inlet protection, concrete washouts, material stockpile stabilization along with following guidelines/requirements from the county and state.

(Site plan must include setbacks and all dimensions of the building/project - see attached instructions)

APPLICANT/OWNER ACKNOWLEDGEMENT

FAILURE TO PROVIDE ALL REQUIRED MATERIALS AND INFORMATION COULD RESULT IN THE REVIEW OF THIS APPLICATION BEING DELAYED FOR CONSIDERATION:

☑ For new home construction, the Winnebago County Zoning Dept. must be contacted for an inspection, ***within one business day*** *of initial disturbance of land*, at **(920) 232-3344** OR by email to: zoningdepartment@co.winnebago.wi.us.

☑ I understand that the conditions of the permit are minimum requirements and that, upon site inspection further measures may be required for compliance within the ordinance.

☑ I understand that all required erosion control measures shall be maintained as described in the permit plan until the Winnebago County Zoning Dept. approves their removal.

☑ I further grant the right-of-entry to the property, as described under "Site Location", to personnel designated by the County, for the purpose of inspecting and monitoring compliance with the ordinance(s).

☑ I have reviewed *Section 23.15 of the Winnebago County Zoning Ordinance* regarding erosion control & stormwater management and agree to comply with the requirements of the ordinance.

☑ In accordance with Wisconsin State Statute 59.691, the information provided herein is to give you notice regarding potential wetlands. You are responsible for complying with state and federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open waters can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources Wetland Identification web page at: http://dnr.wi.gov/topic/surfacewater/swdv/ or contact your local DNR office. As the applicant, I hereby acknowledge notice of this wetland information.

Ben Arndt - McMahon Assoc. - Agent Date: 4/11/25

ORIGINAL INK Signature of Owner/Applicant/Agent

OFFICE USE ONLY

Fee Recv'd $ Date Permit #

Type Issued Date

Issued by:

89

Complete and PRINT form. Submit application with **ORIGINAL INK SIGNATURE, SITE PLAN** and fees to our office in person or by mail. **DO NOT E-MAIL**

WINNEBAGO COUNTY PROPERTY ADDRESS APPLICATION

Application for an address within a Town area only. Village and city area addresses are issued by the municipa

APPLICANT NAME Ben Hamblin - McMahon Associates DAYTIME PHONE # 920-751-4200

MAILING ADDRESS **1445 McMahon Drive** CITY Neenah STATE WI ZIP **54956**

E-mail address: bhamblin@mcmgrp.com

PROPERTY OWNER (IF DIFFERENT THAN APPLICANT) Trident Holdings, LLC - Barry Gill

PROPERTY LOCATION

TOWN **Town of Clayton** TAX PARCEL NUMBER 00603400203 (found on tax bill)

CSM NUMBER (IF APPLICABLE) 7739 SUBDIVISION NAME (IF APPLICABLE) n/a

LOT NUMBER (IF APPLICABLE) 1

DRIVEWAY LOCATION

IMPORTANT NOTE: If the driveway is on a County Highway, you must FIRST get an approved driveway permit from the Winnebago County Highway Department (call 920-232-1700). If the driveway is on a State or Federal Highway, you must FIRST get an approved driveway permit from the Wisconsin Department of Transportation (call 715-421-8322). Bring a copy of this permit with you or include it with your application (if mailing).

Proposed Use of Property (Please check the box): ☐ Residential ☑ Commercial ☐ Industrial ☐ Agricultural ☐ Other

Type of Permit Applied for (Please check the box): ☐ County Zoning ☐ County Sanitary ☑ Erosion Control

Contact the Winnebago County Zoning Dept at 920-232-3344 if you are unsure of the type(s) of permits needed.

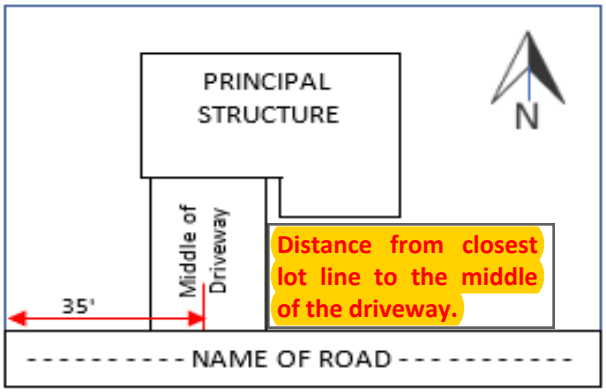
Shared Driveway? **No**

Is this an Existing Driveway? **No**

NOTE: If this is the third (or more) driveway on an existing shared driveway, then this application will result in the creation of a new private road.

EXAMPLE DRAWING

Location of the middle of the driveway is 27 feet from the North, South, East, or West (select one) lot line.



INCLUDE:

- property lot lines
- distance from middle of driveway to the closest lot line
- all buildings on property
- indicate road name

N

See attached plan set

Phase 1 includes only one building. Future phases will include additional buildings, with the intent of having additional driveways off American Drive for the anticipated 5 total buildings on the lot.

E-mail this application with your completed site plan to: dlevine@co.winnebago.wi.us

or mail to: Winnebago County GIS Dept.
Attn: Dave Levine
PO Box 2808
Oshkosh WI 54903