

VIDEO CONFERENCE AND TELECONFERENCE

The Waupun Plan Commission will meet virtually at 4:45 pm on Wednesday, April 28, 2021 via Zoom. The Public may access the conference meeting online or by phone. Instructions to join the meeting are provided below.

To Join Zoom Meeting:

https://us02web.zoom.us/j/89688055360?pwd=bEhiOS9MaG1oSWg4Z0JIVIM5N0FSZz09

Meeting ID: 896 8805 5360 Passcode: 863429 By Phone: +1 312 626 6799 US (Chicago) CALL TO ORDER

ROLL CALL

PERSONS WISHING TO ADDRESS THE PLAN COMMISSION--State name, address, and subject of comments. (2 *Minutes*)

No Public Participation after this point.

FUTURE MEETINGS AND GATHERING INVOLVING THE PLAN COMMISSION

CONSIDERATION - ACTION

- 1. Approve minutes of the March 17, 2021 meeting.
- Public Hearing Rezoning Petition of Pella Lutheran Church to rezone Lot 85 of Assessor's Plat No. 5. Parcel #292-1315-0514-103
- <u>3.</u> Public Hearing Conditional Use Permit Application of Trent Ehlert at 417 E Main St. to operate a woodworking and finishing business.
- 4. Site Plan Review Maple Tree Townhomes
- 5. Site Plan Review 503 Industrial Dr.

ADJOURNMENT

Upon reasonable notice, efforts will be made to accommodate disabled individuals through appropriate aids and services. For additional information, contact the City Clerk at 920-324-7915.



CALL TO ORDER

The Waupun Plan Commission met vitrually at 4:45 pm via Zoom.

ROLL CALL

Member Present: Julie Nickel, Fred Lueck, Jerry Medema, Jill Vanderkin, Jeff Daane, and Mike Matoushek Member Excused: Elton TerBeest Staff Present: Sarah VanBuren and Steve Brooks

PERSONS WISHING TO ADDRESS THE PLAN COMMISSION ---

Chairman Nickel asked if there were any persons wishing to address the committee on any items not included on today's agenda. Hearing nothing, Chairman Nickel proceeded to address the items listed for consideration and action on today's committee agenda.

FUTURE MEETINGS AND GATHERING INVOLVING THE PLAN COMMISSION

Chairman Nickel indicated the next meeting of the Plan Commission will be Wednesday, April 21, 2021 at 4:45 pm.

CONSIDERATION - ACTION

1. Approve minutes of the February 17, 2021 Plan Commission meeting.

Chairman Nickel asked for a motion to act on the Plan Commission minutes of February 17, 2021. Motion by Daane, seconded by Matoushek to approve the minutes of February 17, 2021 as presented. Motion carried, unanimously.

2. CSM Review – Lot 28 of Park Estates (1032 and 1034 Tanager St).

This CSM proposes to divide Lot 28 of Park Estates into two lots dividing a two family home presently located on this lot in accordance with Section 16.03 (2)(d) of the City Zoning Ordinance. The home will be divided and have an attached zero lot line. The CSM shows each proposed lot will contain more than the required 4,000 sq. ft. of area. The restrictive covenants still have not been submitted. Neither the contractor nor the surveyor attended this meeting to add any additional information.

Daane said that according to the survey, the two units comply with the required setbacks from Tanager St. and County Park Rd (CTH MMM) as well as the required sideyard setbacks. Lueck questioned whether the restrictive covenants were submitted regarding property maintenance. He questions what does property maintenance really mean (i.e. shoveling sidewalk, raking leaves, what if an ice dam causes a water problem in the other unit, what if a water or sewer pipe breaks and floods the other unit, leaking roofs, repair of any shared driveway, and many more issues and problems that can arise in these types of homes). Should the ordinance be amended to include a set of minimum maintenance standards before the issuance of the Conditional Use Permit with the City Zoning Administrator/Building Inspector authorized to allow the contractor/owner to add additional covenants to meet their particular type of structure or lot size. Chairman Nickel indicated she would discuss this issue with the City Attorney. The committee has no further questions so Chairman Nickel called for a motion to act on this CSM.

Motion by Medema, seconded by Matoushek to send a favorable recommendation to the City Council for the proposed CSM for Lot 28, Park Estates, being part of the NE ¼-SW ¼ of Sec. 31, T14N R15E, City of Waupun, Fond du Lac County, WI

 CSM Review – Lot 27 Park Estates (1033 and 1035 Tanager St) This CSM proposes to divide Lot 27 of Park Estates into two lots by dividing a two family home, presently located

Vote: Matoushek, Daane, Vanderkin, Medema, Lueck & Nickel – "AYE" Motion carried, unanimously. 6/0.

on this lot in accordance with Section 16.03(2)(d) of the City Zoning Ordinance. This home will be divided and have an attached zero lot line. The CSM shows each proposed lot will contain more than 4,000 sq. ft. as required by the ordinance. The restrictive covenants required by the ordinance apparently have not been submitted. Neither the contractor nor the surveyor were in attendance to provide any new information. Daane again noted the two units comply with all required setbacks. The committee had no further questions, so Chairman Nickel called for a motion to act on this request for approval.

Motion by Matoushek, seconded by Vanderkin to provide a favorable recommendation to the City Council for the proposed CSM for Lot 27, Park Estates, and being Part of the NE ¼, SW ¼, Section 31, T14N R15E, City of Waupun, Fond du Lac County, Wisconsin.

Vote: Matoushek, Daane, Vanderkin, Medema, Lueck, and Nickel – "AYE" Motion carried, unanimously.

4. CSM – Lot 1 CSM #6201 – Reinhard St. – Vliet St.

A one lot CSM has been submitted by Grothman and Associates for Michael and Debra Leu of Waupun. The proposed lot is located at the northern terminus of N. State St. and Reinhard St. on its west boundary, the Rock River on its NW boundary, and Vliet St. on it's SE boundary. The proposed owner has been maintaining this property as they live in this area, according to Steve Brooks, City Utility Manager. Lueck questioned how the property is zoned and what is it's intended use? Steve believes they intend to build a shed on this lot. Lueck questioned if this would be allowed as most zoning ordinances don't allow accessory buildings on a lot until their principle structure (home) is present on the same lot. Steve thought they have a home on some adjacent land but not on this lot. Lueck noted the survey shows a meander line near the Rock River and questioned if any of the lot was in a Floodplain and if so, that should be noted on the survey. Nickel believes there is no flood plain here as she thinks the property is about 20' above the river. Matoushek questioned if there is a home on this new lot or is their home on an adjacent abutting lot? That situation is unclear. No further questions were asked by the committee, so Chairman Nickel called for a motion to act on this request.

Motion by Matoushek, seconded by Medema to forward a favorable recommendation to the City Council on a proposed CSM for Michael and Debra Leu and being Lot 1 of CSM #6201 and Part of Outlot 83 of North Ward Outlots all located in the SE ¼ of the SW 1/4. Section 32, T14N R15E, City of Waupun, Fond du Lac County, Wisconsin.

Vote: Matoushek, Daane, Vanderkin, Medema, Lueck & Nickel – "AYE" Motion carried, unanimously 6/0.

5. Extraterritorial Zoning Review – CSM – W. Center Rd., Town of Waupun/

Fond du Lac County Land Information Department has submitted a request for approval of a CSM under the City of Waupun's Extraterritorial land division ordinance jurisdiction within 1 ½ miles from the City limits of Waupun. The present land owner is Patrick Schomisch and the buyer is James Steinmetz of Brookfield, WI. The proposed parcel is located in the SW ¼, SE ¼ of Section 21, T14N R15E, Town of Waupun, Fond du Lac County, WI. The present land use is forested and the intended use is residential. Lueck noted that without an aerial photo or other map of this area, it is difficult to determine where this proposed lot is located and whether it's actually within 1 ½ miles of the City. It looks as if 33' of road is being dedicated so the question is, is this an extension of a dead end road? Daane called Sue Leahy, City Zoning Administrator, and asked her questions regarding this proposed land division. She said this is not a dead end road. Lueck questioned if the City has any plans for roads and or subdivisions in this area that could be affected by this land division. Nickel indicated she is not aware of any City plans for this area at this time.

Motion by Matoushek, seconded by Vanderkin to inform Fond du Lac County and the Town of Waupun that the City has no objection to the proposed lot in the SW ¼, SE ¼, Section 21 T14N R15E, Town of Waupun, Fond du Lac County, Wisconsin.

Vote: Matoushek, Daane, Vanderkin, Medema, Lueck, and Nickel – "AYE" Motion carried unanimously 6/0

ADJOURNMENT

Motion by Medema, seconded by Matoushek to adjourn the meeting. Motion carried, meeting adjourned at 5:08 pm.

Fred Lueck Secretary

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN, that at a meeting of the Plan Commission of the City of Waupun, will be held on Wednesday the 28th day of April 2021, at 4:45 o'clock in the P.M. there will be considered an ordinance to amend Chapter 16 of the Municipal Code of the City of Waupun.

The meeting will be held via Zoom. Instructions to join the zoom meeting are below:

To Join Zoom Meeting https://us02web.zoom.us/j/89688055360?pwd=bEhiOS9MaG1oSWg4Z0JlV1M5N0FSZz09

Meeting ID: 896 8805 5360 Passcode: 863429 Dial by your location +1 312 626 6799 US (Chicago)

ORDINANCE # 21 - ____

AN ORDINANCE TO AMEND CHAPTER SIXTEEN OF THE MUNICIPAL CODE OF THE CITY OF WAUPUN ENTITLED "ZONING ORDINANCE."

THE COMMON COUNCIL OF THE CITY OF WAUPUN ORDAINS:

<u>SECTION 1:</u> Section 16.01 (10) of the Municipal Code of the City of Waupun entitled "Zoning Map" is amended so that real estate currently owned by Pella Lutheran Church and presently zoned in the R-4 Central Area Single Family Residential is rezoned to the IN Institutional District. The real estate to be rezoned is described as follows:

Parcel #: 292-1315-0514-103 LOT 85 ASSESSOR'S PLAT NO 5, City of Waupun, Dodge, Wisconsin

<u>SECTION 2:</u> This Ordinance shall be in full force and effect upon its passage and publication as provided by law.

Enacted this____ day of _____, 2021.

Julie Nickel Mayor

ATTEST:

Angela Hull City Clerk PLEASE TAKE FURTHER NOTICE that the ordinance is on file in the office of the Zoning Administrator in the City Hall of the City of Waupun, Wisconsin and may be inspected during regular business hours.

PLEASE TAKE FURTHER NOTICE that all persons desiring to be heard on the proposed ordinance in support thereof or in opposition thereto, must appear at the said meeting of the Plan Commission of the City of Waupun.

Susan Leahy Zoning Administrator City of Waupun (PUBLISH April 14 and April 21, 2021)



201 E. Main Street WAUPUN, WISCONSIN 53963

PETITION FOR REZONING

From:	Pella Luthenan Church				
	315 S. Madicon Street				
	WAUDON WI 53963				

Phone: 920-324-

Fax:

The petition of $\frac{p_{ella} \ Lrtherarchurch}{Pound}$ respectfully alleges and petitions the Common Council Owners Name:

of the City of Waupun as follows:

1. That the petitioner is owner of real estate which is situated in the City of Waupun, Dodge County, Wisconsin and legally described as follows: Parce L/Tax Key NUMBER - 292-1315-0514-103 Lot 85 Assessons PLat NO 5

2. That the petitioner is the owner of the real estate described above which lies in the

 $B_{AB} \neq Q$ District of the City of Waupun for zoning purposes.

3. That the petitioner wishes that the above described real estate be rezoned and placed in the \underline{IN} $\underline{$

Dated this 574 d	lay of Manch, 2021			
Petitioners Signature George Bau mann				
Petitioners Signature				
Petitioners Signature				
\$150.00 Application fee	e payable upon filing. Date paid: N 5 2021			
File Petition with:	Zoning Administrator City of Waupun 201 E. Main St. Waupun, WI 53963			

geo baumann o gmail. com







NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN, that at a meeting of the Plan Commission of the City of Waupun, to be held via zoom on Wednesday the 28th day of April, 2021 at 4:45 O'clock in the P.M., there will be considered the application for a Conditional Use Permit of:

1. Trent Ehlert at 417 E Main St. to operate a woodworking and finishing business per Section 16.04(2) of the Waupun Municipal Code.

The meeting will be held via zoom.

To Join Zoom Meeting: https://us02web.zoom.us/j/89688055360?pwd=bEhiOS9MaG1oSWg4Z0JIVIM5N0FSZz09

Meeting ID: 896 8805 5360 Passcode: 863429 By Phone: +1 312 626 6799 US (Chicago)

PLEASE TAKE FURTHER NOTICE that all persons desiring to be heard on the proposed Conditional Use in support thereof or in opposition thereto, must contact the Zoning Administrator prior to said meeting of the Plan Commission of the City of Waupun.

Dated this 14th day of April 2021

Susan Leahy Zoning Administrator City of Waupun

(PUBLISH April 21, 2021)

920-246-5138 trent1224@gmiil.com

\$150.00 Paid: 4521 \$150 Date: 4/5/21 Fee: **CITY OF WAUPUN** 201 E. Main Street WAUPUN, WISCONSIN 53963 **Conditional Use Permit Application** Treat they From: (business name or individual) Property Description and address: E Main Street Conditional Use Requested: portion of business will include woodworkening Business plan includes dust collection and ventilation unit as port of HVAC system. jority of business is retail and fits existing Louin Zoning Ordinance Section Involved:) B-2 Central Business 16.04 (2 Date Presented to Plan Commission: Denied CONDITIONAL USE: Granted Comments: to purchase with contingency Signature of Applicant (s)

MAPLE TREE TOWNHOMES PROJECT CITY OF WAUPUN, DODGE COUNTY, WISCONSIN

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ST 2	SITE GRADING PLAN SHEET

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R - ROAD CONSTRUCTION PLANS

R 1	SITE PAVING PLAN
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SITE LAYOUT & RESTORATION PLAN

D - DETAIL SHEETS

(N)

D 1-5 CONSTRUCTION DETAILS



CITY OF WAUPUN DODGE COUNTY

LOCATION MAP

ROJECT DATE:

DATE: 3/24/2021 9:20 AM.

-		NO.	DATE	REVISION
_	DRAWN BY: JL			
	DESIGNED BY: JL			
_	CHECKED BY: JO	1.2	2	74
305	0269002690003/CADDIC:	10265000	Design dwg	

LEGEND

ENGINEERING | ARCHITECTURE | SURVEYING

FUNDING | PLANNING | ENVIRONMENTAL

201 Corporate Drive, Beaver Dam WI 53916 (920) 887-4242 www.msa-ps.com

颅 MSA

	EXISTING WATER MAIN	
	EXISTING WATER MAIN, VALVE & HYDR/	ANT
	EXISTING WATER SERVICE & CURB STO	P
	PROPOSED WATER MAIN, VALVE, & HYD	ORANT
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G	BURIED GAS & VALVE	
v	BURIED CABLE TELEVISION	
T	BURIED TELEPHONE	
F0	BURIED FIBER OPTICS	
OH	OVERHEAD UTILITY	
	RAILROAD TRACKS	
	EXISTING CURB & GUTTER	
	PROPOSED CURB & GUTTER	
	EXISTING SIDEWALK	
	PROPOSED SIDEWALK	
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	PROPOSED CULVERT PIPE	
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ABBREVIATIONS

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R/W	= RIGHT OF WAY	SG	= SPOT GRADE	P.C.	= POINT OF CURVATURE
MH	= MANHOLE	T/C	= TOP OF CURB	P.T.	= POINT OF TANGENCY
PROP.	= PROPOSED	FOW	= FRONT OF SIDEWALK	P.I.	= POINT OF INTERSECTION
EX.	= EXISTING	INV	= INVERT	B.V.C.	= BEGINNING OF VERTICAL CURVATURE
CONC.	= CONCRETE	W.M.	= WATERMAIN	E.V.C.	= END OF VERTICAL CURVATURE
HYD.	= HYDRANT	SAN.	= SANITARY	P.V.I.	= POINT OF VERTICAL INTERSECTION
IOR.	= NORMAL	FL	= FLOW LINE	E/P	= EDGE OF PAVEMENT
YP.	= TYPICAL	STM.	= STORM	E/G	= EDGE OF GRAVEL
AN.	= TANGENT	ELEV	= ELEVATION	R.C.P.	= REINFORCED CONCRETE PIPE
F	= FIRST FLOOR	INC.	= INCIDENTAL	H.E.R.C.P.	. = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE
D	= YARD GRADE	STA.	= STATION	C.M.P.	= CORRUGATED METAL PIPE
:/L	= CENTERLINE	SWR	= SEWER	D.I.	= DUCTILE IRON PIPE
CONN.	= CONNECTION	BOC	= BACK OF CURB	P.V.C.	= POLYVINYL CHLORIDE PIPE
CEN.	= CENTER	LF	= LINEAR FEET	H.D.P.E.	. = HIGH DENSITY POLYETHLENE
-					

MAPLE TREE TOWNHOMES PROJECT **CITY OF WAUPUN** DODGE COUNTY, WISCONSIN

UTILITIES

GAS: ALLIANT ENERGY ALLIANT ENERGY 120 E. MAPLE AVENUE BEAVER DAM, WI 53916 PHONE: 920-887-6030 CONTACT: DAVID KROHN

ELECTRIC: WAUPUN UTILITIES 817 S. MADISON STREET WAUPUN, WI 53963 PHONE: 920-324-7920 CONTACT: STEVE BROOKS

TELEPHONE: AT&T 70 E. DIVISION STREET, FLOOR 1 FOND DU LAC, WI 54935 PHONE: 920-929-1013 CONTACT: CHUCK BARTELT

SANITARY & WATER: WAUPUN UTILITIES 817 S. MADISON STREET WAUPUN, WI 53963 PHONE: 920-210-0079 CONTACT: STEVE SCHRAMM

STORM SEWER & STREET CITY OF WAUPUN 201 E. MAIN STREET WAUPUN, WI 53963 PHONE: 920-210-8200 CONTACT: JEFF DAANE

CATV: CHARTER COMMUNICATIONS N3760 C.T.H. "DJ" JUNEAU, WI 53039 PHONE 920-349-3201 CONTACT: NICK FRASE



Dial u or (800) 242-8511

www.DiggersHotline.com

NOTE: UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CONTRACTOR SHALL HAVE APPROPRIATE UTILITY MARK EXACT LOCATIONS PRIOR TO CONSTRUCTION.

> 02690003 SHEET G1

TITLE SHEET





LEGEND

◀~~~~	SURFACE DRAINAGE DIRECTION ARROW
900	EXISTING 5' CONTOUR
901	EXISTING 1' CONTOUR
	SILT FENCE (SEE DETAIL)
	APPROX. DISTURBANCE LIMITS

GENERAL PROJECT NOTES:

1. ALL EXISTING UTILITIES WITHIN THIS PLAN ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND NO RESPONSIBILITY IS ASSUMED BY THE ENGINEER OR CITY FOR THEIR ACCURACY OR DEGREE OF COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE, LOCATION, AND ELEVATION OF ALL UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGING ANY SUCH UTILITIES. THE CONTRACTOR SHALL CONTACT DIGGER'S HOTLINE AT (800) 242-8511 PRIOR TO ANY CONSTRUCTION SC THAT THE SITE MAY BE MARKED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY UTILITIES.

2. VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS ARE APPARENT, BRING TO ATTENTION OF THE PROJECT ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR RE-DESIGN MAY OCCUR.

3. UNLESS SPECIFIED WITHIN THIS CONSTRUCTION PLAN, NO EXISTING TREES SHALL BE DISTURBED OR DAMAGED. THE OWNER, IN WRITING, MUST APPROVE STALE DE DIS ONDED ON DAMAGED. IN OWNEL, IN WITHIN, MOST AT HAVE THE REMOVAL OF ANY EXISTING TREES IF THE CONTRACTOR BELIEVES THAT AN EXISTING TREE IS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. NO TREES OR TREE STUMPS SHALL BE BURIED ONSITE.

4. EXISTING KNOWN SURVEY MONUMENTS (SHOWN ON THE PLANS) ENCOUNTERED DURING CONSTRUCTION ARE TO BE PRESERVED AND LEFT UNDISTURBED. SHOULD THE CONTRACTOR ENCOUNTER UNKNOWN MONUMENTS PROPERTY STAKES, ETC. (NOT SHOWN ON THE PLANS), THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO ANY DISTURBANCE. FAILURE TO PRESERVE SUCH MONUMENTS SHALL NOT BE ALLOWED AND REPLACEMENT BY A REGISTERED LAND SURVEYOR SHALL BE AT THE CONTRACTOR'S EXPENSE.

5. ELEVATIONS SHOWN WITHIN THIS PLAN REFERENCE THE NORTH AMERICAN VERTICAL DATUM.

6. REFER TO THE PROJECT ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILS PERTAINING TO THE PROPOSED BUILDINGS, ASSOCIATED ARCHITECTURAL FEATURES, TRASH ENCLOSURE AREA, AND SITE WORK SURROUNDING THE BUILDINGS.

7. THE CONTRACTOR SHALL COORDINATE WITH ALL PRIVATE UTILITIES (GAS, ELECTRIC, TELEPHONE, CABLE TV, ETC.) REGARDING THE LOCATION, SIZE, DEPTH, ETC. OF EXISTING AND PROPOSED SERVICE LINES WITHIN THE PROJECT SITE. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY PRIVATE UTILITIES THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CAREFULLY WORK AROUND EXISTING UTILITY LINES, UTILITY POLES, UTILITY STRUCTURES, GUY WIRES, ETC, THAT ARE TO REMAIN UNDISTURED. THE CONTRACTOR SHALL PROVIDE ANY NECESSARY TEMPORARY SHORING OR OTHER MEASURES TO PROTECT THESE FEATURES DURING CONSTRUCTION ACTIVITIES. (ALL INCIDENTAL TO CONSTRUCTION)

GENERAL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL INSTALL ALL NECESSARY EROSION CONTROL MEASURES TO PREVENT EROSION ONTO THE ADJACENT PROPERTIES AND INTO THE ADJACENT EXISTING STREETS. ADDITIONAL EROSION CONTROL, NOT SHOWN IN THIS PLAN, MAY BE REQUIRED BY THE ENGINEER AND/OR THE OWNER DURING CONSTRUCTION (INCIDENTAL). EROSION CONTROL AND SITE STABILIZATION MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THIS CONSTRUCTION PLAN, THE PROJECT SPECIFICATIONS, THE WISCONSIN DEPT. OF NATURAL RESOURCES CONSERVATION PRACTICE STANDARDS, ANY LOCAL EROSION CONTROL ORDINANCES, AND ANY CONDITIONS OF APPROVAL. INSTALL EROSION CONTROL MEASURES PRIOR TO INITIATION OF ANY SITE WORK. SEE THE "CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS" LISTED ON THIS SHEET FOR FURTHER EROSION CONTROL REQUIREMENTS AND NOTES.

2. CONTRACTOR SHALL PROTECT ALL EXISTING AND PROPOSED INLETS, MANHOLES, DRAINAGE SWALES, CULVERTS, ETC. FROM SILTATION DURING CONSTRUCTION AND UNTIL FINAL STABILIZATION OCCURS (INCIDENTAL TO EROSION CONTROL).

3. ALL EROSION CONTROL MEASURES AND STRUCTURES SHALL BE INSPECTED, MAINTAINED, AND DOCUMENTED BY THE CONTRACTOR (WEEKLY AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT 0.5 INCHASTOR (WEELT AND WITHIN HOURS AFTER A PRECIPITATION EVENT 0.5 INCHASTOR (WEELT AND WITHIN ACCORDANCE WITH THE WISCONSIN D.N.R. STORM WATER DISCHARGES ASSOCIATED WITH LAND DISTURBING CONSTRUCTION ACTIVITIES GENERAL PERMIT. ALL NECESSARY REPAIR AND MAINTENANCE WILL BE DONE AT THIS INSPECTION TIME. THESE INSPECTIONS SHALL BE DOCUMENTED BY THE CONTRACTOR AND AVAILABLE TO THE ENGINEER AND/OR OWNER UPON REQUEST. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OR INCLUDED IN THE CORRESPONDING EROSION CONTROL PRICE BID (IF APPLICABLE).

EROSION CONTROL & REMOVAL PLAN

02690003







GENERAL GRADING NOTES:

1. ALL GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CONSTRUCTION PLAN, THE PROJECT SPECIFICATIONS, AND ANY CONDITIONS OF APPROVAL..

2. ALL PROPOSED GRADES SHOWN WITHIN THE PLANS ARE FINISHED GRADES. UNLESS SPECIFIED ON THE PLAN, THE CONTRACTOR SHALL CONSTRUCT/GRADE ALL CONCRETE, ASPHALT, AND GRASS AREAS TO A MINIMUM SLOPE OF 1.0%, 1.0%, AND 1.0%, RESPECTIVELY. THE MAXIMUM SURFACE SLOPE ACROSS HANDICAP PARKING STALLS AND WALKWAYS IN ANY DIRECTION SHALL BE 2.0% AND ACROSS HANDICAP ACCESSIBLE RAMPS SHALL BE 8.0%. THE MAXIMUM SURFACE SLOPE ACROSS THE PROPOSED DAMEMENT OF JUNIL DE COULUM ECO DECRETED ACTIVED VICTORIST. PAVEMENT SHALL BE 6.0% UNLESS SPECIFIED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, PRIOR TO CONSTRUCTION, OF ANY AREAS WHICH DO NOT SATISFY THE ABOVE MENTIONED SLOPES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE HIS/HER OWN COMPUTATIONS FOR DETERMINATION OF EARTHWORK AND TOPSOIL QUANTITIES PRIOR TO BIDDING. IT IS RECOMMENDED THAT EACH BIDDER VISIT THE SITE TO VERIFY THE EXISTING CONDITIONS. NO CHANGES WILL BE MADE IN THE BID QUANTITY AMOUNT OR UNIT PRICE UNLESS CHANGES ARE MADE TO THE CONTRACT DRAWINGS AFTER BIDDING OF THE CONTRACT.

4. NO STOCKPILES (TOPSOIL OR EARTH MATERIAL) SHALL REMAIN AFTER ALL GRADING WORK IS COMPLETED UNLESS DIRECTED OTHERWISE BY THE OWNER. IF AFTER THE COMPLETION OF ALL SITE GRADING AND SUBGRADE PREPARATION WORK THERE IS EXCESS FILL MATERIAL, THE CONTRACTOR SHALL HAUL/STOCKPILE THE MATERIAL AT A LOCATION(S) AS DESIGNATED BY THE OWNER OR DISPOSE OF THE MATERIAL AS DIRECTED BY THE OWNER. IF THERE IS A SHORTAGE OF FILL MATERIAL, THE CONTRACTOR SHALL PURCHASE/IMPORT THE MATERIAL FROM OFFSITE. ALL GRADING AND SUBGRADE PREPARATION WORK AS WELL AS ANY DISPOSAL OF EXCESS MATERIAL AND/OR IMPORTING OF MATERIAL SHALL BE INCIDENTAL TO THE UNCLASSIFIED EXCAVATION BID ITEM.

5. FILL PLACED WITHIN 10 FEET OR LESS FROM THE OUTSIDE EDGE OF A BUILDING SHALL BE SUITABLE EXCAVATED SOIL FREE OF ORGANIC DEBRIS, CLAY BALLS, AND AGGREGATE LARGER THAN 1.5-INCHES. THE FILL MATERIAL WITHIN THESE AREAS SHALL BE SPREAD AND COMPACTED UNIFORMLY IN 6-INCH TO 8-INCH MAXIMUM LIFTS TO AT LEAST 95 PERCENT MAXIMUM DRY DENSITY PER MODIFIED PROCTOR (ASTM D1557). ALL OTHER FILL AREAS WITHIN THE PROJECT SITE SHALL BE SPREAD AND COMPACTED IN 12-INCH MAXIMUM LIFTS TO AT LEAST 93 PERCENT DRY DENSITY PER MODIFIED PROCTOR (ASTM D1557)











GENERAL STORM SEWER NOTES:

1. ALL PROPOSED UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THIS CONSTRUCTION PLAN, THE PROJECT SPECIFICATIONS, THE REQUIREMENTS OF THE CITY, THE LATEST EDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (STORM), AND ANY CONDITIONS OF APPROVAL.

2. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION AS MEASURED BY THE FIELD ENGINEER AND THE CONTRACTOR SHALL BE PAID ACCORDING TO THE LENGTH OF PIPING INSTALLED.

3. ALL PROPOSED STORM SEWER CONNECTIONS INTO EXISTING PIPING OR STRUCTURES SHALL BE INCIDENTAL TO CONSTRUCTION AND MADE WITH A CONCRETE COLLAR (SEE DETAIL). ALL EXISTING STORM SEWER ABANDOMMENT AS WELL AS THE REMOVAL OF EX. MANHOLES AND INLETS THAT ARE NO LONGER IN USE SHALL BE INCIDENTAL TO CONSTRUCTION. ALL EXISTING STORM SEWER PIPING TO BE ABANDONED SHALL BE MADE BY COMPLETELY FILLING EACH END OF THE PIPE WITH POUR-IN-PLACE CONCRETE.

4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (SHORING, BRACING, ETC.) AND SHALL CAREFULLY INSTALL THE NEW STORM SEWER IMPROVEMENTS SO AS NOT TO DISTURB ANY EXISTING PRIVATE UTILITY STRUCTURES OR PIPING AS WELL AS TO PREVENT ANY DISTURBANCE TO EXISTING SITE FEATURES THAT ARE TO REMAIN UNDISTURBED. ANY DISTURBANCE OR DAMAGE (AS DETERMINED BY THE OWNER) SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

STORM SEWER IMPROVEMENT PLAN

02690003







02690003

CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

- 1. SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.
- 3. THIS INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE CONTRACT DRAWINGS AND IN THE ACCOMPANYING SPECIFICATIONS
- 4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
- 5. THE AREA OF EROSIVE LAND EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES. THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.
- 6. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN HAS OCCURRED. ALL NECESSARY REPAIR AND MAINTENANCE WILL BE DONE AT THIS INSPECTION TIME
- 7. ALL EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE PROPERLY INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS WITHIN THEIR RESPECTIVE DRAINAGE AREAS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
- 8. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE.
- 9. ANY SLOPES STEEPER THAN 3H:1V SHALL BE STAKED WITH EROSION CONTROL FABRIC UNLESS INDICATED ON THE PLAN
- 10. 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 OFF-SITE BY RUNOFF OR WIND
- 11. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH. OR A TACKING AGENT MAY BE REQUIRED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.
- 12. CHANNELIZED RUNOFF ENTERING THE PROJECT SITE FROM ADJOINING LANDS SHALL BE DIVERTED THROUGH NATURALLY OR ARTIFICIALLY EROSION-RESISTANT CONVEYANCES. IF CHANNELIZED RUNOFF CANNOT BE DIVERTED. SITE BEST MANAGEMENT PRACTICES MUST ACCOUNT FOR THE ADDITIONAL FLOW RATES AND EROSION POTENTIAL THAT SUCH RUNOFF PRESENTS.
- 13. THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS PAVED SURFACES AD ACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEPT AND/OR SCRAPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT, AND/OR DUST.
- 14. EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 30 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.
- 15. ADDITIONAL EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.) SHALL INCLUDE THE FOLLOWING: a. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
- b. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION. c. DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WONR CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WDNR DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.
- 16. ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES THAT COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS
- 17. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
- 18. THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION, ALL NEWLY SEEDED AND MULCHED AREAS SHALL WATERED WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
- 19. WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.
- 20. ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.
- 21. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.

DESIGNED BY: JL

JD







HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 3

GENERAL NOTES



SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER

LENGTH 4'-0" MIN. 2'-0" MIN. DEPTH IN GROUND -







DODGE COUNTY, WISCONSIN



FUNDING | PLANNING | ENVIRONMENTAL 201 Corporate Drive, Beaver Dam WI 53916 (920) 887-4242 www.msa-ps.com

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.

2. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 ¹/₈" x 1 ¹/₈" OF OAK OR HICKORY.

3. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.



02690003

D1

DETAIL SHEET



	02690003
DETAIL SHEET	sheet D2





CLASS "B" EMBEDMENT FOR RIGID PIPE DETAIL	
IO SCALE	



	PROJECT NO. 02690003
DETAIL SHEET	SHEET





	RIGHT ELEVATION	LEFT ELEVATION	So FREE BATED OFFENING ASS SOMD INSULATION TECHNICAL ROOM SIDE TECHNICAL ROOM SIDE TECHNICAL ROOM SIDE TECHNICAL ROOM SIDE TECHNICAL ROOM SIDE SALE, IT = I-O SALE, IT = I-O	24 STUDE
SHEET NO.:	Sheet Title: Floor Plan Exterior Elevations Details	ARK DATE 2021-01 PROPOS PLAN DATE: 2/7/2021 IOI, IO3, IO5, DRAWN BY: REEP IOI, IO3, IO5,	ED WAUPUN MAPLE TREE TOWNHOMES 4-UNIT APARTMENT 107, 109, 111, 113, & 115 YOUNG STREET, WAUPUN, WI	ASSOCIATES, Inc. 2012 Angie Ave. Green Bay, WI 54302 Phone: (920) 632-7685 Email: jo@efjassociates.com







	Sheet Title: Floor Plan & Details	MARK PROJECT NO. PROJECT NO. 2021-02 PLAN DATE: 2/7/2021 DRAWN BY: REEP	PROPOSED MAPLE TREE TOWNHOMES 6-UNIT APARTMENTS 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, & 139 YOUNG STREET, WAUPUN, WI	ASSOCIATES, Inc. 2012 Angie Ave. Green Bay, WI 54302 Phone: (920) 632-7685 Email: jo@efjassociates.com
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LEFT ELEVATION

SCALE: 1/8" = 1'-0"

SHEET TITLE: EXTERIOR ELEVATIONS SHEET NO.:	MARK PROJECT NO. 2021-02 PROPOSED MAPLE TREE TOWNHOMES PLAN DATE: 0-UNIT APARTMENTS 2/7/2021 IIT, II9, I2I, I23, I25, I27, I29, I3I, I33, I35, I37, & I39 YOUNG STREET, WAUPUN, WI REEP IIT, II9, I2I, I23, I25, I27, I29, I3I, I33, I35, I37, & I39 YOUNG STREET, WAUPUN, WI	ASSOCIATES, Inc. 2012 Angie Ave. Green Bay, WI 54302 Phone: (920) 632-7685 Email: jo@efjassociates.com
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SHEET NO.:	Sheet Title: Overall Floor Plan Details	MARK DATE PROJECT NO. DATE PLAN DATE: DESCRIPTION 3/21/21 DRAWN BY: REEP	PROPOSED WAUPUN MAPLE TREE TOWNHOMES 8-UNIT APARTMENT 901, 903, 905, 907, 909, 911, 913, & 915 EAST JEFFERSON STREET, WAUPUN, WI		ASSOCIATES, Inc. 2012 Angie Ave. Green Bay, WI 54302 Phone: (920) 632-7685 Email: jo@efjassociates.com
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RIGHT ELEVATION Scale 1/8" = 1'0"		LEFT ELEVATION	REREGY EFFCIENT HERESY EFFCIENT HIGHNE DOOR NULLWE SINGLE HWE HIGHNE FOR HULL WIT AC HIGHNE FOR H	PREFINISHED ALIMIN FACE A TRIM - CONST BEECTION BY OWER SECTION ALIMIN ALIMI
Sheet Title: Exterior elevations	PROJECT NO. 2021-03 PLAN DATE: 3/21/2021 DRAWN BY: REEP	- PROPOSED WAUPL 8-UN 901, 903, 905, 907, 909, 911, 913	JN MAPLE TREE TOWNHOMES IIT APARTMENT & 915 EAST JEFEERSON STREET, WAUPUN,	ASSOCIATES, Inc. 2012 Angie Ave. Green Bay, WI 54302 Phone: (920) 632-7685 Email: jo@efjassociates.com

SHEET NO .:

REPORT OF STORMWATER RUN-OFF AND EROSION CONTROL

To the Mayor, Plan Commission and Director of Public Works of the City of Waupun, Wisconsin:

New Frontier Land Surveying, as agent for owners, hereby reports to your honorable body as follows:

Waiver of storm water ponds for A&E Storage LLC located at 503 Industrial Drive zoned commercial;

A study of the property at 503 Industrial Dr., Waupun has been conducted. There are two existing structures on the property with parking surface areas measuring approxitmately an area of about 1/5 of the overall size of the property an area of 129,625 sq ft or 2.976 ac+/-. Leaving a remaining green space area 103,707 sq ft or 2.38 ac+/-. The new proposed storage building being 50'x103' or 5400 sq ft is situated west of a green space of approximately 52,277 sq ft or 1.2 ac+/-. The proposed building construction will be about 1/10th the area of the green space adjacent to it. There is a planned 15' x 400' (6000 sq ft) swale proposed (see site plan) which can retain approximately 222 cubic yards (6000 cf) of storm water. An additional 15'x200' (111 cubic yard or 3000 cf) area on the southeast corner of this parcel exists. Storm water calculations have been performed and shows that this proposed swale will adequately manage and clarify the storm water run-off. At 1.5 cfs or 5400 cfh the area in question has a ratio of 1:1. As outlined in Chapter 22 of Waupun Ordinance as the soils in the area are an excellent infiltration system to aid in the management of stormwater. Also when this area was developed, there was an extensive storm sewer system installed and maintained for this entire industrial park, which was designed to handle all impervious surface area in this development. Creating individual ponds on existing parcels would be an unnecessary hardship on the owners. The volume that will be generated from development of these building will not adversely affect the existing storm sewer collection system already in place that was sized to handle this area. This proposal meets NR115, NR151 and Chapter 22 of Waupun ordinances for storm water management.

Agents: Mark Tomashek New Frontier Land Surveying, Beaver Dam, WI Bryan Yohn, A&E Storage, Waupun, WI

We respectfully submit this report to be brought before the City of Waupun Plan Commission and City of Waupun Common Council for the action of approval of a new 50' x 103 ' storage building.

lun Dated this 25 day of APR 1/2021

Mark Tomashek, WI RLS 2340 New Frontier Land Surveying 234 South Spring St (920)296-3904Beaver Dam, Wisconsin

NEW FRONTIER LAND SURVEYING, LLC MARK TOMASHEK 234 S. SPRING ST., P.O. BOX 576 BEAVER DAM, WI 53916



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 w Frontier Land Surveying LLC

 234 S. Spring Street
 - P.O. Box 576

 Beaver Dam, Wisconsin
 53916

 p(920)885-3904
 (1920)885-3905
 New |



Date: 10/6/20 Job No: 20-438 Calc. by: djp

Design Storm: Q₁₀ Methodology: Rational Method

Q = CiA

Determine C

Slope = $\frac{895.0 - 887.5}{177}$ x 100 = 4.2%

Per Attachment 5.2 Detail A, $C \approx \frac{0.72 + 0.89}{2} \approx 0.81$

Estimate $t_c \approx 5$ min.

Per Attachment 5.4, i = 7.2

Area = entire parcel = 0.26 acres

Q = 0.81 x 7.2 x 0.26 = 1.5 cfs

Check Design:

Provided design will convey 1.5 cfs at flow depth = 0.43 ft.

Project Description		
Worksheet	Circular Channel - 1	H01
Flow Element	Circular Channel	
Method	Manning's Formula	
Solve For	Channel Depth	
Input Data	na bananan fanlan ita sifan ananan da na ananan kananan sa sa sa na matanya ng na fan da na mandan manda na mat	
Mannings Coefficient	0.012	
Slope	0.010000 ft/ft	
Diameter	12 in	
Discharge	1.50 cfs	
Results		
Depth	0.43 ft	
Flow Area	0.3 ft ²	
Wetted Perimeter	1.44 ft	
Top Width	0.99 ft	
Critical Depth	0.52 ft	
Percent Full	43.3 %	
Critical Slope	0.005321 ft/ft	
Velocity	4.61 ft/s	
Velocity Head	0.33 ft	
Specific Energy	0.76 ft	
Froude Number	1.42	
Maximum Discharge	4.15 cfs	
Discharge Full	3.86 cfs	
Slope Full	0.001511 ft/ft	
Flow Type	Supercritical	

			Hydrologic Soil Group										
	Percent		A			В			C			D	
	Impervious	Slop	e Range	Percent	Slop	e Range	Percent	Slop	e Rang	e Percent	Slop	e Range	Percent
Land Use	Area	0-2	2-6	6 & over	0-2	2-6	6 & over	0-2	2-6	6 & over	0-2	2=6	6 & over
Industrial	90	0.67 0.85	0.68 0.85	0.68 0.86	0.68 0.85	0.68 0.86	0.69 0.86	0.68 0.86	0.69 0.86	0.69 0.87	0.69 0.86	0.69 0.86	0.70 0.88
Commercial	95	0.71 0.88	0.71 0.89	0.72 0.89	0.71 0.89	0.72 0.89	0.72 0.89	0.72 0.89	0.72 0.89	0.72 0.90	0.72 0.89	0.72 0.89	0.72 0.90
High Density Residential	60	0.47 0.58	0.49 0.60	0.50 0.61	0.48 0.59	0.50 0.61	0.52 0.64	0.49 0.60	0.51 0.62	0.54 0.66	0.51 0.62	0.53 0.64	0.56 0.69
Med. Density Residential	30	0.25 0.33	0.28 0.37	0.31 0.40	0.27 0.35	0.30 0.39	0.35 0.44	0.30 0.38	0.33 0.42	0.38 0.49	0.33 0.41	0.36 0.45	0.42 0.54
Low Density Residential	15	0.14 0.22	0.19 0.26	0.22 0.29	0.17 0.24	0.21 0.28	0.26 0.34	0.20 0.28	0.25 0.32	0.31 0.40	0.24 0.31	0.28 0.35	0.35 0.46
Agriculture	5	0.08 0.14	0.13 0.18	0.16 0.22	0.11 0.16	0.15 0.21	0.21 0.28	0.14 0.20	0.19 0.25	0.26 0.34	0.18 0.24	0.23 0.29	0.31 0.41
Open Space	2	0.05 0.11	0.10 0.16	0.14 0.20	0.08 0.14	0.13 0.19	0.19 0.26	0.12 0.18	0.17 0.23	0.24 0.32	0.16 0.22	0.21 0.27	0.28 0.39
Freeways & Expressways	70	0.57 0.70	0.59 0.71	0.60 0.72	0.58 0.71	0.60 0.72	0.61 0.74	0.59 0.72	0.61 0.73	0.63 0.76	0.60 0.73	0.62 0.75	0.64 0.78

Detail A - Runoff Coefficients (C), Rational Formula

Detail B - Runoff Coefficients for Specific Land Use

	-					Hydrologic	Soil	Group				here and the second second second
	A Slope Range Percent				E	3		(>	Τ		D
					Slope Pere	Range cent		Slope Perc	Range cent	Slop	e Ran	ge Percent
Land Use	0-2	2-6	6 & over	0-2	2-6	6 & over	0-2	2-6	6 & over	0-2	2-6	6 & over
Row Crops	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
Median Stripturf	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
Side Slopeturf			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT	1							L			ference and the second	
Asphalt	Τ					.70	95					
Concrete						.80	95				*****	
Brick	1					.70	80					
Drives, Walks	1					.75	85	THE OPPOSITE OF STREET		Terreral wavestick		
Roofs	1					.75	95			*****		and the second se
Gravel Roads Shoulders						.40	60	Contraction from				

NOTE: The lower C values in each range should be used with the relatively low intensities associated with 2 to 10-year design recurrence intervals whereas the higher C values should be used for intensities associated with the longer 25 to 100 year deign recurrence intervals.

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FDM 13-10 Attachment 5.4 Rainfall Intensity-Duration-Frequency Curves

		100-yr	50-yr	25-yr	10-YT	5-yr	2-yr	1-yr	RI (yr)	
Rainfall Intensity (in/hr)		10.92	9.72	8.64	7.20	6.24	5.16	4.56	5	-
10.0 1.0		8.04	7.14	6.30	5.28	4.62	3.78	3.30	10	
		6.52	5.84	5.16	4.32	3.72	3.08	2.68	15	
Dane	'	4.56	4.06	3.60	3.00	2.60	2.14	1.88	30	
		3.06	2.71	2.38	1.98	1.70	1.38	1.19	60	Duratio
		1.92	1.70	1.49	1.23	1.05	0.84	0.72	120	n (min)
Ve Ve		1.46	1.29	1.12	0.92	0.78	0.62	0.53	180	
		0.87	0.76	0.66	0.54	0.45	0.36	0.31	360	
22		0.49	0.43	0.37	0.30	0.26	0.21	0.18	720	
24 24 24 24 24 24 24 24 24 24 24 24 24 2		0.28	0.24	0.21	0.17	0.15	0.12	0.10	1440	

Dane County Rainfall Intensity-Duration-Frequency- NOAA Atlas 14, Volume 8

Dodge County Rainfall Intensity-Duration-Frequency- NOAA Atlas 14, Volume 8

					Duration	(min)				
RI (yr)	5	10	15	30	60	120	180	360	720	1440
1-yr	4.08	3.00	2.44	1.68	1.07	0.65	0.48	0.29	0.17	0.10
2-yr	4.92	3.60	2.92	2.02	1.29	0.79	0.58	0.34	0.20	0.11
S-yr	6.24	4.56	3.68	2.56	1.65	1.01	0.75	0.43	0.24	0.14
10-yr	7.20	5.28	4.32	3.00	1.95	1.20	0.89	0.51	0.28	0.16
25-yr	8.64	6.30	5.12	3.58	2.35	1.46	1.09	0.63	0.34	0.19
50-yr	9.72	7.08	5.76	4.00	2.66	1.66	1.25	0.73	0.40	0.23
100-yr	10.68	7.80	6.36	4.42	2.97	1.87	1.41	0.83	0.46	0.26



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November 15, 2019

Attachment 5.4

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Duration (hr) ¢1

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12 24

50-yr

- 100-yr

	<u> </u>							
	2"-0"	I2'-0''	,			• I2 ¹ -O ¹¹	2'-0"	+
	IO' X 14' OVERHEAD DOOR	IO' X 14' OVERHEAD DOOR	IO' X 14' OVERHEAD DOOR	IO' X 14' OVERHEAD DOOR 3 PLY 2 X 8 COLUMNS TYPICAL -	IO' X 14' OVERHEAD DOOR	IO' X 14' OVERHEAD DOOR	IO' X 14' OVERHEAD DOOR	
IO- 'OI								
10 ⁻ ,0 ⁻					<u>STORAGE SHED</u>			
	 I I	IO' X 14' OVERHEAD DOOR	10' X 14' OVERHEAD DOOR	IO' X 14' OVERHEAD DOOR	3 PLY 2 X 8 COLUMNS TYPICAL 10' X 14' OVERHEAD DOOR	IO' X 14' OVERHEAD DOOR	IO' X 14' OVERHEAD DOOR	
_ _			2'-0"	2'-0"		2 ¹ -0 ¹¹	2'-0''	*



REAR ELEVATION

FRONT ELEVATION

4/12		

