OWNER NAME	PHONE	AGENT/CONTRACTOR NAME	PHONE
ALAN BIRKLE	(847) 370-4833	DCPSHL-2020-0006	

BILLING ADDRESS (Number, Street)	ADDRESS (Number, Street)
2784 WAUBESA AVE	
(City, State, Zip)	(City, State, Zip)
MADISON, WI 53711	
E-MAIL ADDRESS	E-MAIL ADDRESS
BIRKLEA@COMCAST.NET	

PARCEL NO.	TOWNSHIP	SECTION	1/4	1/4 1/4
0610-082-1810-7	TOWN OF DUNN	8	NW	NE

PROPERTY ADDRESS (Assignment of new address is subject to field verification.)	HOUSE NO.	ST. DIRECTION	STREET NAME	ST. TYPE
	2784		WAUBESA	AVE

LOT	BLOCK	C.S.M. NO. or PLAT NAME
20		WAUBESA BEACH-3RD ADDITION

ZONING DISTRICT	PARCEL SQ FOOTAGE	PROPOSED PROJECT: **New Structure/Addition** Description: TEARDOWN/REBUILD SFR
SFR-08 Single Family Residential		

PROJECT INFORMATION	SEWER
App for a Residential Structure;	

REZONE NO.	C.U.P. NO.	VARIANCE NO.	DEED RESTRICTION
			☐ YES ☐ NO

SHORELAND	FLOOD ZONE	WETLAND
☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO

Existing Impervious	Proposed Impervious
Sq. Ft.	Sq. Ft.
Setback from Ordinary High Water Mark	Water Body Name

PERMIT FEE $150.00

I, the undersigned, am the owner of the property or an authorized agent acting on behalf of the owner of the property. I certify that the work to be performed, as part of this zoning permit, will be constructed as noted on the submitted plans and comply with the applicable zoning ordinances. I understand that failure to comply with any provision or condition of this permit renders this zoning permit null and void and subject to enforcement action.

I acknowledge that I am responsible for complying with State and Federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water 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 web page at www.dnr.state.wi.us or contact the Department of Natural Resources Service Center.

I hereby consent to the entry on the permitted premises by Dane County zoning inspectors for the purposes of determining compliance with the zoning ordinances.

Owner & Agent hereby agree to comply with all Dane County Ordinances. Any unauthorized change from the information or plans submitted will invalidate the permit.	SIGNATURE: Owner/Agent	DATE: 11-7-2020

OFFICE USE ONLY (form version 02.00.00)

	DATE ISSUED 06/26/2020	INITIALS HJH3	INSPECTION DATE	INITIALS
	DATE REVIEWED	INITIALS		

Conditions:1. THIS APPROVAL BY DANE COUNTY ZONING IS ONLY FOR THE PLAN AS PRESENTED. ANY MODIFICATION TO THE PROJECT REQUIRES THE EXPRESS WRITTEN APPROVAL BY DANE COUNTY ZONING. THIS PERMIT SHALL BE NULL AND VOID IF ANY MODIFICATIONS ARE MADE WITHOUT THE EXPRESS WRITTEN APPROVAL OF DANE COUNTY ZONING. INITIALS CB

1. No change of topography within 5 feet of a property line.
2. No disturbance of the vegetative buffer zone unless it is part of an approved shoreland mitigation permit.

Dane County Shoreland Zoning Permit Application

Application must be made in person
Shoreland Zoning Permit fee is $150

Zoning office use only

Shoreland Permit #: DCPSHL-_____-_____
Zoning Permit # DCPZP-_____-_____

A shoreland zoning Permit will be required prior to a general zoning permit being issued by the Dane County Zoning Division for any development within the shoreland district.

Property Owner Information	Agent Information
Name Alan Birkle	Agent Name
Address 6606 Hayward Court	Agent Address
City, State, Zip McHenry, IL, 60050	City, State, Zip
Phone 847-370-4833	Agent Phone
E-Mail birklea@comcast.net	Agent E-mail

Property/Location Information (http://accessdane.co.dane.wi.us)

Property Address 2784 Waubesa Avenue	Town/Section Dunn / 8	¼ NW ¼ ¼ SE	Acreage 0.172
Parcel Number(s) 0610-082-1810-7		Zoning District SFR-08	
CSM	Lot 20	Subdivision Third Addition to Waubesa Beach	Block/Lot

Project Description

Demolition of all existing impervious surfaces including house, driveway and sidewalks. Construction of a new combined house and garage along with site grading and new rain garden.

Please answer the following questions to the best of your ability:

Is the property within 300 feet of a stream or 1000 feet from a pond or lake? ■ Yes ☐No ☐ Don't Know

Is there a wetland or floodplain on or near the property? ■ Yes ☐No ☐ Don't Know

Is this project associated with a recent rezone/CUP/variance? ■No If yes, petition/appeal #_____

Is this permit to correct a violation? ☐ Yes ■No

Have you contacted the Dane County Land and Water Resources Department about this project? ☐ ■Yes ☐No

Most applications must be accompanied by a survey showing the following:

- ☐ Property lines with dimensions
- ☐ All existing structures
- ☐ Any proposed structures
- ☐ All impervious surfaces
- ☐ All vegetative areas
- ☐ Ordinary High Water Mark
- ☐ Topographic data (2-foot contours)

Permit Fee due at time of application

Please have cash or check payment available at time of application submittal. Checks are payable to Dane County Zoning. The fee for a shoreland zoning permit is $150.00 and is non-refundable.

I, the undersigned, hereby make application for a shoreland zoning permit and certify to the accuracy of the information. I further certify I am the property owner, or a duly authorized representative, and may sign this permit application on the behalf of the owner(s) of said property.

Applicant signature: _____ **Date:** 6-9-2020

ZONING OFFICE USE ONLY ***ZONING OFFICE USE ONLY***

Project includes development within: (check all that apply)

☒ 1000' of a lake or pond ☒ 300' of lake, pond, river or stream ☒ 300' of a floodplain

☐ A floodplain ☐ 75' of a wetland ☐ A wetland ☐ The vegetative buffer zone

☒ **Shoreland** Water body: Waubesa Identification: Lake DNR designated? ☒Yes ☐No

☐ **Wetland** ☐ Shoreland wetland ☐Inland wetland ☐Wetland < 2 acres

☐ **Floodplain** FEMA map panel: 55025C_____ Flood zone:_____

☐Floodway ☐Flood fringe ☐General floodplain ☐Flood storage

Lot

☒Existing ☐ Existing non-conforming ☐New

Lot 18 = 49.3
Lot 19 = 52.3 = 50.8

Impervious Surface Calculations

Area (square feet): Total Lot:	7005 **Sq Ft**		
Within 300' of ordinary high water mark	**Existing**	**Additional Proposed**	**Post Development**
Lot	7005		
Primary building footprint			
Accessory building(s)			
Driveway			
Any other impervious			
Total impervious	1989	935	2924
Percent impervious	28.3		41.7%

Project meets shoreland standards: ☐Yes ☒No Shoreland zoning permit denied: ☐Yes ☒No

Additional Dane County permits needed:

☒Shoreland Erosion Control Permit ☒Shoreland Mitigation Permit ☐Variance

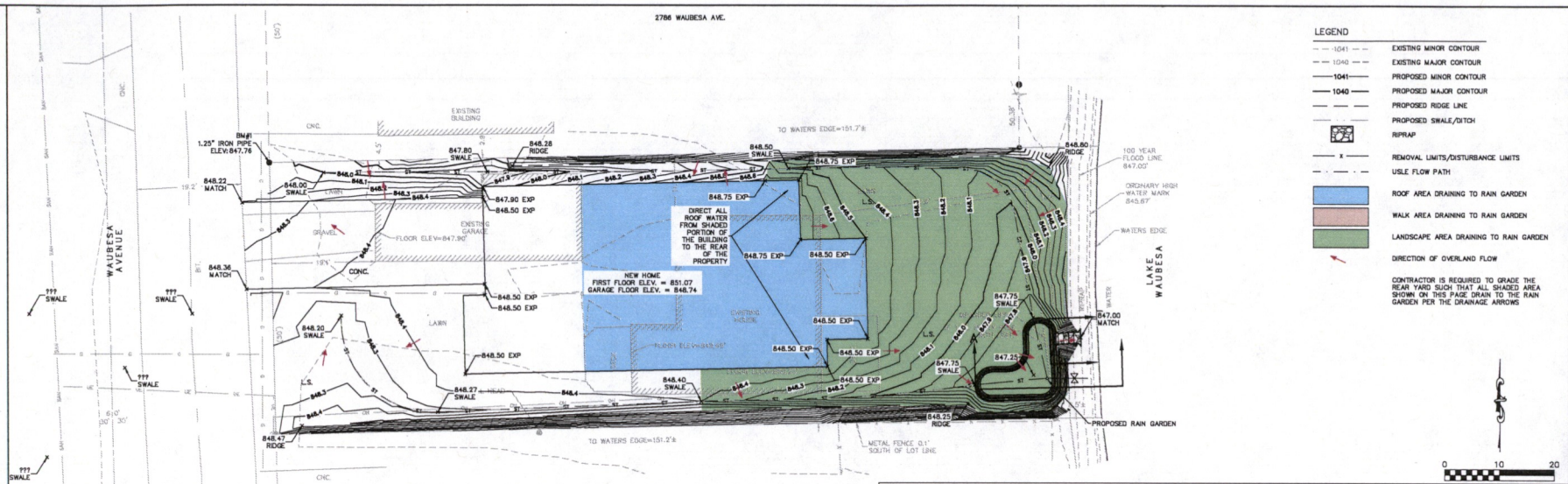
☐Floodplain development permit ☒ Zoning Permit ☐ _____

Additional information required: _____

STATUS: ☐ Shoreland zoning permit and/or zoning permit **issued** contingent upon other permits

☒ Shoreland zoning permit **on hold** for other permits

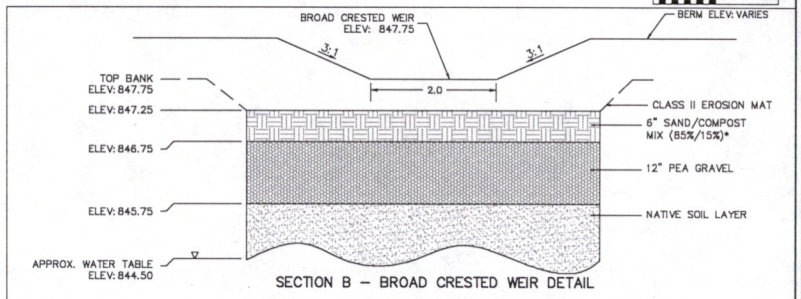
Issued by _____ Date _____
Assistant Zoning Administrator



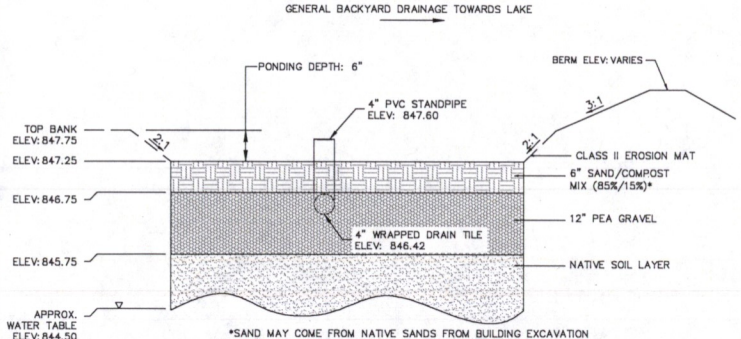
LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED RIDGE LINE
- PROPOSED SWALE/DITCH
- RIPRAP
- REMOVAL LIMITS/DISTURBANCE LIMITS
- USLE FLOW PATH
- ROOF AREA DRAINING TO RAIN GARDEN
- WALK AREA DRAINING TO RAIN GARDEN
- LANDSCAPE AREA DRAINING TO RAIN GARDEN
- DIRECTION OF OVERLAND FLOW

CONTRACTOR IS REQUIRED TO GRADE THE REAR YARD SUCH THAT ALL SHADED AREA SHOWN ON THIS PAGE DRAIN TO THE RAIN GARDEN PER THE DRAINAGE ARROWS



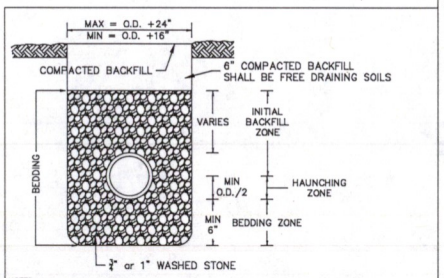
SECTION B – BROAD CRESTED WEIR DETAIL



*SAND MAY COME FROM NATIVE SANDS FROM BUILDING EXCAVATION
VEGETATE RAIN GARDEN WITH NATIVE PRAIRIE SPECIES (1' O.C. NOMINAL)
RAIN GARDEN SHALL BE EXCAVATED TO AT LEAST 845.50, AND THE LOAMY SAND LAYER WITH A HYDRAULIC APPLICATION RATE OF 1.63IN/HR OR GREATER.

BASIN TO BE CONSTRUCTED IN COMPLIANCE WITH THE WISCONSIN DNR TECHNICAL STANDARD 1009

SECTION A – RAIN GARDEN DETAIL



NOTES:
- TRENCH SHALL BE HAND BACKFILLED TO A POINT 12" ABOVE THE TOP OF THE PIPE. ALL BEDDING SHALL BE MECHANICALLY COMPACTED.
- O.D. EQUALS THE OUTSIDE DIAMETER OF THE PIPE.

4" DRAINTILE BEDDING & BACKFILL

SNMH:
RIM = 848.43
INV N = 840.96
INV E = 841.03
INV S = PLUGGED
INV W = 840.96

Burse Surveying and Engineering, Inc.
2801 International Lane, Suite 101
Madison, WI 53704
Phone: 608-250-9263
Fax: 608-250-9266
e-mail: Mburse@BSE-INC.net
www.bursesurveyeng.com

APPROVALS	
PROJECT MGR	MLB
DRAWN BY	CPB
CHECKED BY	CTB
REVISED BY	PDP
APPROVED BY	MLB

RESIDENCE

2784 Waubesa Avenue
Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #: BSE2187
PLOT DATE: 06/08/2020

REVISION DATES:
05/12/2020
06/09/2020

ISSUE DATES:
05/12/2020
06/09/2020

GRADING PLAN

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DRAWING NUMBER
C400

M:\BSE2187\dwg\Engineering\Grading Plan.dwg

Printed: Jun 09, 2020 - 1:52pm Printed By: survey

STORMWATER MITIGATION REPORT

BIRKLE RESIDENCE
TOWN OF DUNN, DANE COUNTY, WISCONSIN

June 9, 2020

WISCONSIN
CARL R. BROBERG
E-46307
WAUNAKEE
WI
PROFESSIONAL ENGINEER

06/09/2020

PREPARED FOR:
Mr. Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PREPARED BY:
Burse Surveying and Engineering, Inc.
2801 International Lane, Suite 101
Madison, WI 53704
(608) 250-9263

BSE2187-19

BOUNDARY AND TOPOGRAPHIC SURVEY

LOT 20, THIRD ADDITION TO WAUBESA BEACH, RECORDED AS DOCUMENT NUMBER 314503, LOCATED IN THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER, SECTION 08, TOWNSHIP 06 NORTH, RANGE 10 EAST, TOWN OF DUNN, DANE COUNTY, WISCONSIN

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

SCALE ONE INCH = TEN FEET

LEGEND

- 1" IRON PIPE FOUND
- 3/4" SOLID IRON ROD FOUND
- 1-1/4" IRON PIPE FOUND
- MAG NAIL FOUND
- 3/4" X 18" SOLID IRON RE-ROD SET, WT 1.50 lbs/ft.
- 851.7 SPOT ELEVATION
- OVERHEAD UTILITY WIRE
- BURIED GAS LINE
- WATER MAIN
- SANITARY SEWER
- STORM SEWER
- BURIED TELEPHONE
- BURIED ELECTRIC
- BURIED CABLE ACCESS TELEVISION LINE
- BURIED FIBER OPTIC
- WATER VALVE
- GAS VALVE
- GAS METER
- DECIDUOUS TREE (DBH IN INCHES)
- CONIFEROUS TREE (DBH IN INCHES)
- AIR CONDITIONER
- TV PEDESTAL
- ELECTRIC PEDESTAL
- UTILITY POLE
- LIGHT POLE
- GROUND LIGHT
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- SIGN
- GUY WIRE
- MAILBOX
- BOLLARD
- STORM SEWER INLET
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- STORM SEWER MANHOLE
- ROUND CATCH BASIN
- STORM SEWER STRUCTURE
- SANITARY SEWER MANHOLE
- MISC SYMBOL
- BituMINOUS PAVEMENT
- CONCRETE PAVEMENT
- INDICATES RECORDED AS

DISTANCES ARE MEASURED TO THE NEAREST HUNDREDTH OF A FOOT. BUILDINGS ARE MEASURED TO THE NEAREST TENTH OF A FOOT

NOTES:

1) Except as specifically stated or shown on this map, this survey does not purport to reflect any of the following which may be applicable to the subject real estate: easements; building setback lines; restrictive covenants, subdivision restrictions, zoning or other land use regulations, and any other facts that an accurate and current title search may disclose. Survey was performed without the benefit of a title report.

2) No attempt has been made as a part of this survey to obtain or show data concerning existence, size, depth, condition, capacity, or location of any utility or municipal/public service facility. For information regarding these utilities or facilities, please contact the appropriate agencies.

3) Date of field work: 04-20-2020

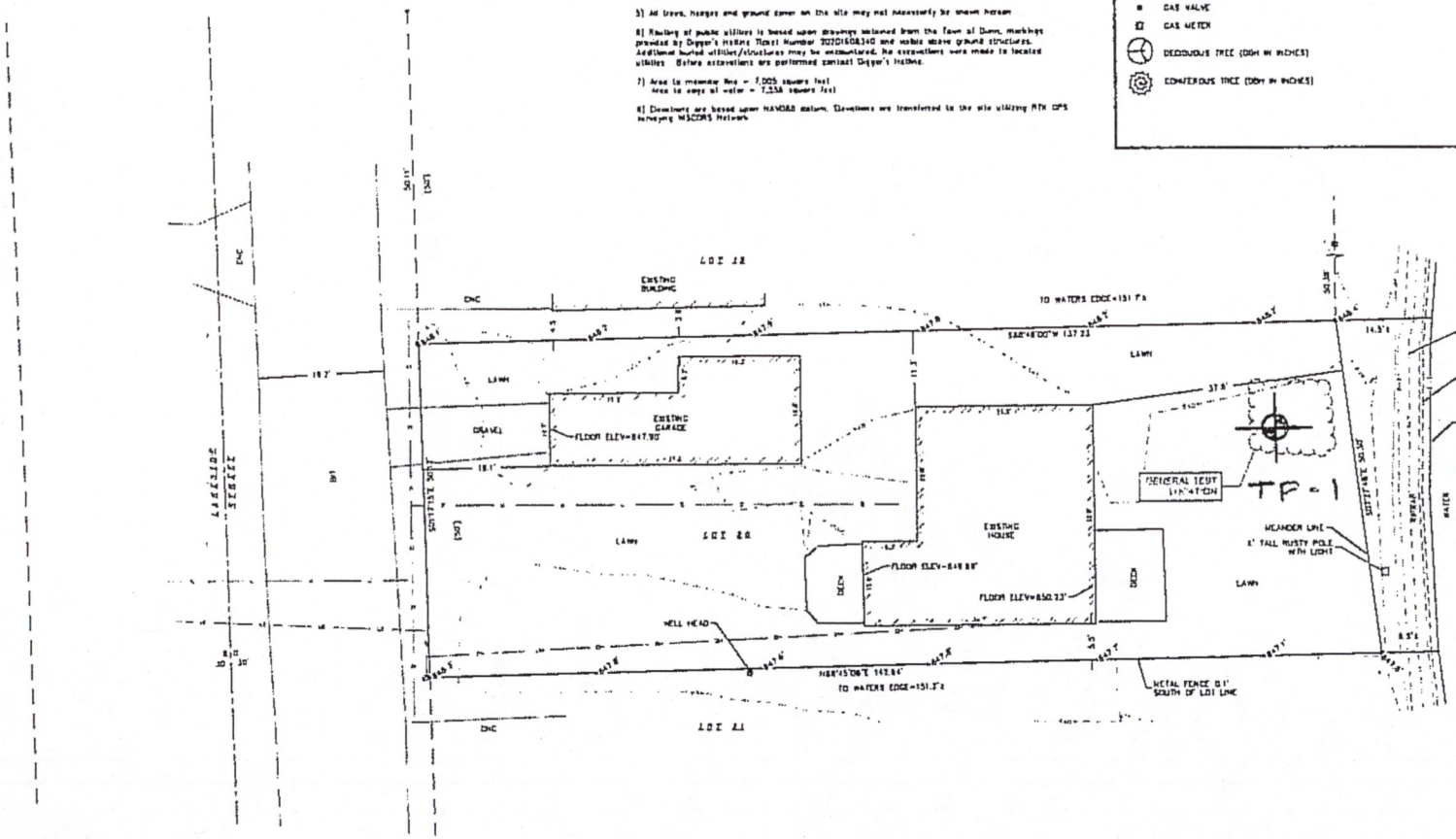
4) All surface and subsurface improvements on and adjacent to the site are not necessarily shown hereon.

5) All trees, hedges and ground cover on the site may not necessarily be shown hereon

6) Marking of public utilities is based upon drawings obtained from the Town of Dunn, markings provided by Digger's Hotline Ticket Number 20201608340 and visible above ground structures. Additional buried utilities/structures may be encountered. No excavations were made to locate utilities. Before excavations are performed contact Digger's Hotline.

7) Area in meander line = 7,005 square feet
Area in area of water = 7,334 square feet

8) Elevations are based upon NAVD88 datum. Elevations are transferred to the site utilizing RTK GPS surveying WISCORS Network



DESCRIPTION PROVIDED:

LOT 20, THIRD ADDITION TO WAUBESA BEACH, RECORDED AS DOCUMENT NUMBER 314503, LOCATED IN THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER, SECTION 08, TOWNSHIP 06 NORTH, RANGE 10 EAST, TOWN OF DUNN, DANE COUNTY, WISCONSIN

SURVEYOR'S CERTIFICATE:

I, Michelle L. Burse, Professional Land Surveyor, No. 2020, hereby certify that the foregoing survey was executed under my direction and control, and that said survey meets the minimum standards for property surveys of the Wisconsin Administrative Code (A-E7), and the map hereon is correct to the best of my knowledge and belief.

Dated this _____ day of _____, 20__.

Signed _____
Michelle L. Burse, P.L.S. No. 2020

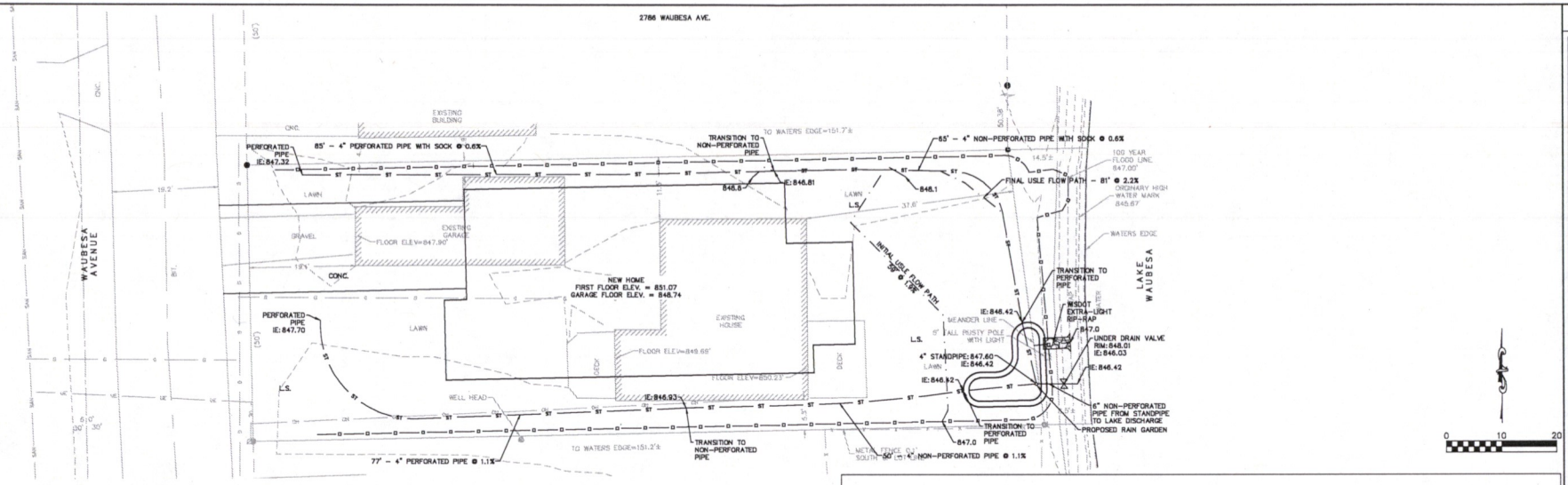
WISCONSIN MICHELLE L. BURSE S-2020 Sun Prairie WI LAND SURVEYOR

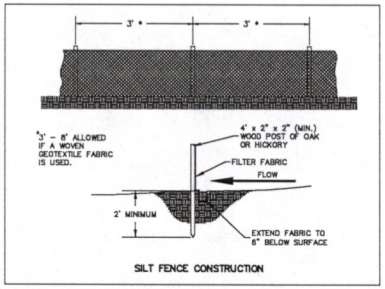
SURVEYED FOR :
ALAN DAHLE

SURVEYED BY :
Burse
surveying & engineering
2501 International Lane Suite 100
Madison, WI 53704
tel 608 259-9266
email: mburse@burse.net
www.burse-engineering.com

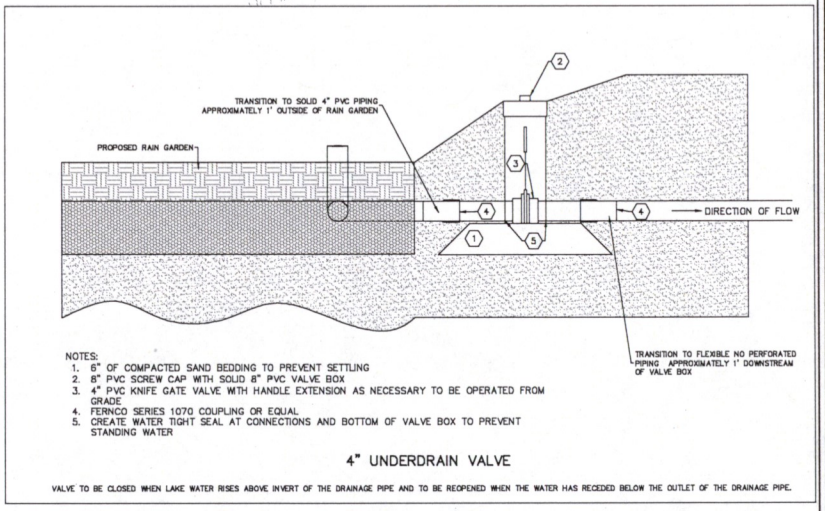
SHEET 1 OF 1

Date: April 23, 2020
Plot View: FDMD
\BSE21187\dwg\Survey\BSE21187-18.dwg





SILT FENCE CONSTRUCTION



NOTES:
1. 6" OF COMPACTED SAND BEDDING TO PREVENT SETTLING
2. 8" PVC SCREW CAP WITH SOLID 8" PVC VALVE BOX
3. 4" PVC KNIFE GATE VALVE WITH HANDLE EXTENSION AS NECESSARY TO BE OPERATED FROM GRADE
4. FERNCO SERIES 1070 COUPLING OR EQUAL
5. CREATE WATER TIGHT SEAL AT CONNECTIONS AND BOTTOM OF VALVE BOX TO PREVENT STANDING WATER

4" UNDERDRAIN VALVE

VALVE TO BE CLOSED WHEN LAKE WATER RISES ABOVE INVERT OF THE DRAINAGE PIPE AND TO BE REOPENED WHEN THE WATER HAS RECEDED BELOW THE OUTLET OF THE DRAINAGE PIPE.

EROSION CONTROL NOTES/SPECIFICATIONS:

1. EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
2. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE THE RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
3. 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 IS PRODUCED. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS. INSPECTION SCHEDULE AND RECORD KEEPING SHALL COMPLY WITH NR 216.48(9), WIS. ADM. CODE.
4. CONSTRUCTION ENTRANCES - EXISTING PAVEMENT SHALL ACT AS THE TRACKING PAD.
   a. IF TRACKING BECOMES AN ISSUE, CONTRACTOR SHALL PROVIDE A STONE TRACKING PAD AT EACH POINT OF ACCESS. INSTALL ACCORDING TO WDNR STANDARD 1057. REFER TO WDNR'S STORMWATER WEB PAGE OF TECHNICAL STANDARDS AT: HTTPS://DNR.WI.GOV/TOPIC/STORMWATER/DOCUMENTS/MOTTRACKOUTCONTROLPRACTICES.PDF. THE TRACKING PAD MUST BE MAINTAINED IN A CONDITION THAT PREVENTS THE TRACKING OF MATERIAL ONTO THE PUBLIC STREET.
5. EROSION CONTROL DEVICES SHALL ADHERE TO THE TECHNICAL STANDARDS FOUND AT: HTTPS://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST_STANDARDS.HTML AND COMPLY WITH ALL DANE COUNTY ORDINANCES.
6. ALL DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE SWEPT OR SCRAPED CLEAN BY THE END OF EACH WORKDAY.
7. ALL DISTURBED AREAS SHALL BE SEEDED IMMEDIATELY AFTER GRADING ACTIVITIES HAVE BEEN COMPLETED.
8. ALL DISTURBED AREAS, EXCEPT PAVED AREAS, SHALL RECEIVE A MINIMUM OF SIX (6) INCHES OF TOPSOIL, FERTILIZER, SEED, AND MULCH. SEED MIXTURES SHALL BE SELECTED APPROPRIATE TO THE INTENDED FUNCTION. A QUALIFIED LANDSCAPING CONTRACTOR, LANDSCAPE ARCHITECT OR NURSERY CAN BE CONSULTED FOR RECOMMENDATIONS. SEEDING RATES SHALL BE BASED ON POUNDS OR OUNCES OF PURE LIVE SEED PER ACRE AND SHALL BE PROVIDED BY THE SEED SUPPLIER. FERTILIZER CAN BE APPLIED TO HELP PROMOTE GROWTH, BUT A SOIL TEST IS RECOMMENDED TO DETERMINE THE TYPE AND AMOUNT OF FERTILIZER TO BE APPLIED. ALL SEEDING AND RESTORATION SHALL BE IN CONFORMANCE TO WDNR TECHNICAL STANDARD 1059 FOUND AT HTTP://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST_STANDARDS.HTML. SEEDING AND SODDING MAY ONLY BE USED FROM MAY 1ST TO SEPTEMBER 15TH OF ANY YEAR. TEMPORARY SEED SHALL BE USED AFTER SEPTEMBER 15. IF TEMPORARY SEEDING IS USED, A PERMANENT COVER SHALL ALSO BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION.
9. FOR THE FIRST SIX (6) WEEKS AFTER THE INITIAL STABILIZATION OF A DISTURBED AREA, WATERING SHALL BE PERFORMED WHENEVER MORE THAN SEVEN (7) DAYS OF DRY WEATHER ELAPSE.

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

SCHEDULE:

JUNE 15, 2020	SILT FENCE AND EROSION CONTROL MEASURES INSTALLED
JUNE 15, 2020	TOP SOIL REMOVAL COMPLETE.
JULY 15, 2020	BUILDING DEMOLITION AND ROUGH SITE GRADING COMPLETE.
SEPTEMBER 15, 2020	FINE GRADING AND SEEDING COMPLETE.
AUGUST 7, 2021	RAIN GARDEN INSTALLATION COMPLETE.

EMERGENCY CONTACT

ALAN BIRKLE
9000 HAYWARD COURT
MCHENRY, IL 60050
847-370-4833
birkleal@comcast.net

WISCONSIN CARL R. BROBERG E-46307 WAUNAKEE WI PROFESSIONAL ENGINEER
06/07/2020

LEGEND
- CONSTRUCTION ENTRANCE
- SAW CUT / REMOVAL LIMITS
- DISTURBANCE LIMITS
- SILT FENCE
- CHECK DAM
- DIVERSION BERM
- INLET PROTECTION
- USLE FLOW PATH

Burse Surveying and Engineering, Inc.
2801 International Lane, Suite 101
Madison, WI 53704
Phone: 608-250-9263
Fax: 608-250-9266
e-mail: Murse@BSE-INC.net
www.bursesurveyeng.com

APPROVALS	
PROJECT MGR	MJS
DRAWING MGR	CRB
DESIGNED BY	CRB
DRAWN BY	JDP
CHECKED BY	MJS

RESIDENCE
2784 Waubesa Avenue
Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #: BSE2187
PLOT DATE: 06/08/2020

REVISION DATES:
05/12/2020
06/09/2020

ISSUE DATES:
05/12/2020
06/09/2020

EROSION CONTROL & UTILITY PLAN

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DRAWING NUMBER
C200

Printed: Jun 09, 2020 - 1:52pm Printed By: survey

M:\BSE2187\dwg\Engineering\BSE2187v2018.dwg

Universal Soil Loss Equation for Construction Sites

Dane County Land Conservation Division

Developer: Alan Birkle

Project: 2784 Waubesa Avenue

Date: 6/9/2020

Version 2.2

Land Disturbing Activity	Begin Date	End Date	Period % R	Annual R Factor	Soil Map Unit	Soil Erodibility K Factor	Slope (%)	Slope Length (feet)	LS Factor	Land Cover C Factor	Soil loss A=%RxRxKxLSxC (tons/acre)	Percent Reduction Required
												(7.5 tons/acre)
disturb ground	6/15/2020	7/1/2020	11.3%	150	Gn	0.17	1.9%	59	0.16	1.00	0.5	
disturb ground	7/1/2020	9/15/2020	47.3%	150	Gn	0.17	2.2%	81	0.20	1.00	2.5	
seeding	9/15/2020	-----	26.8%	150	Gn	0.17	2.2%	81	0.20	0.40	0.6	
		-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
										TOTAL	3.5	NONE

Land Disturbing Activities:

input	definition
disturb ground	activity which leaves the ground devoid of vegetation
apply mulch	application of straw mulch at 1.5 tons/acre
seed and mulch	seeding and application of straw mulch at 1.5 tons/acre
seeding	temporary or permanent seeding without the use of mulching materials
sod	installation of sod
paving	providing 100% cover to disturbed ground with paving materials or stone

EX-5
USLE

Designed By:	CRB
Date	6/5/2020
Checked By:	PDF
Date	6/5/2020

Notes:

Seeding established by winter. Rain garden installaion completed sping-fall 2021.

APPENDIX A

SOILS REPORT

Wis. Dept. of Safety and Professional Services
Division of Industry Services

SOIL EVALUATION - STORM

in accordance with SPS 382.365 and 385, Wis. Adm. Code

Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and BM referenced to nearest road.

Please print all information.

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).

County: **Dane**

Parcel I.D.: **0610-082-1810-7**

Reviewed by: | Date:

Property Owner: **Al & Holly Birkle**

Property Location: Govt. Lot **SE** 1/4 **NW** 1/4 S **8** T **6** N R **10** E (~~only W~~)

Property Owner's Mailing Address: **6606 Hayward Court**

Lot # **20** | Block # | Subd. Name or CSM# **3rd Addn. To Waubesa Beach**

City: **McHenry,** State: **IL** Zip Code: **60050** Phone Number: ( )

☐ City ☐ Village ☐ Town: **Dunn** Nearest Road: **2784 Waubesa Av.**

Drainage area _____ ☐ sq. ft. ☐ acres

Optional:

Test Site Suitable for (check all that apply)

☐ Irrigation ☐ Bioretention trench ☐ Trench(es)

☐ Rain garden ☐ Grassed swale ☐ Reuse

☐ Infiltration trench ☐ SDS (> 15' wide) ☐ Other _____

Hydraulic Application Test Method:

☒ Morphological Evaluation

☐ Double-Ring Infiltrometer

☐ Other (specify) _____

TP-1 Obs. # ☐ Boring ☒ Pit Ground surface elev. **848.0** ft. Depth to limiting factor **30** in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Hydraulic App. Rate Inches/Hr
Fill1	0-12	10YR2/2	None	sil	2fsbk	mvfr	cs	0	0.13
Fill2	12-18	10YR5/6	None	sl	1msbk	mvfr	cs	2	0.5
A	18-30	10YR2/0	None	l	1msbk	mvfr	cs	0	0.24
IIC1	30-40	2.5YR5/2	m2d10YR5/8	ls	0sg	ml	gs	10	1.63
IIC2	40-66	2.5YR5/2	m2d10YR5/8	grs	0sg	ml		15	3.6
			Saturated @42"+						

Obs. # ☐ Boring ☐ Pit Ground surface elev. _____ ft. Depth to limiting factor _____ in.

Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	Hydraulic App. Rate Inches/Hr

CST/PSS Name (Please Print): **Paul A. Hardy**

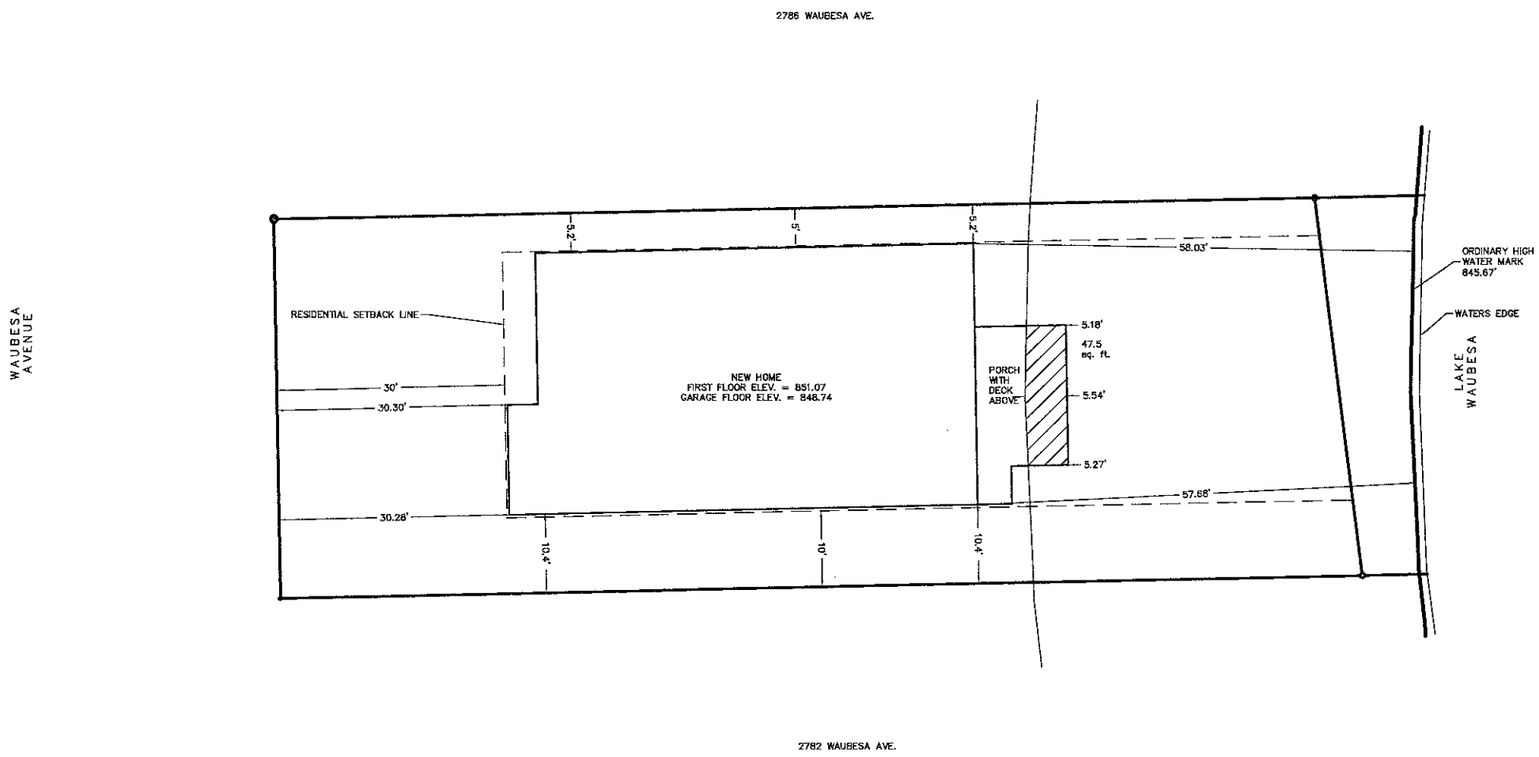
Signature: [signature]

CST/PSS Number: **225394**

Address: **7226 Timberwood Drive, Madison, WI 53719**

Date Evaluation Conducted: **5-13-2020**

Telephone Number: **608-848-4869**



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APPROVALS	
PROJECT ENG:	MLB
DESIGNED BY:	CRB
DRAWN BY:	CRB
CHECKED BY:	PDF
APPROVED:	MLB

RESIDENCE

2784 Waubesa Avenue
Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #:	BSE2187
PLOT DATE:	06/08/2020
REVISION DATES:	
	05/12/2020
	06/09/2020

ISSUE DATES:
05/12/2020
06/09/2020

SITE PLAN

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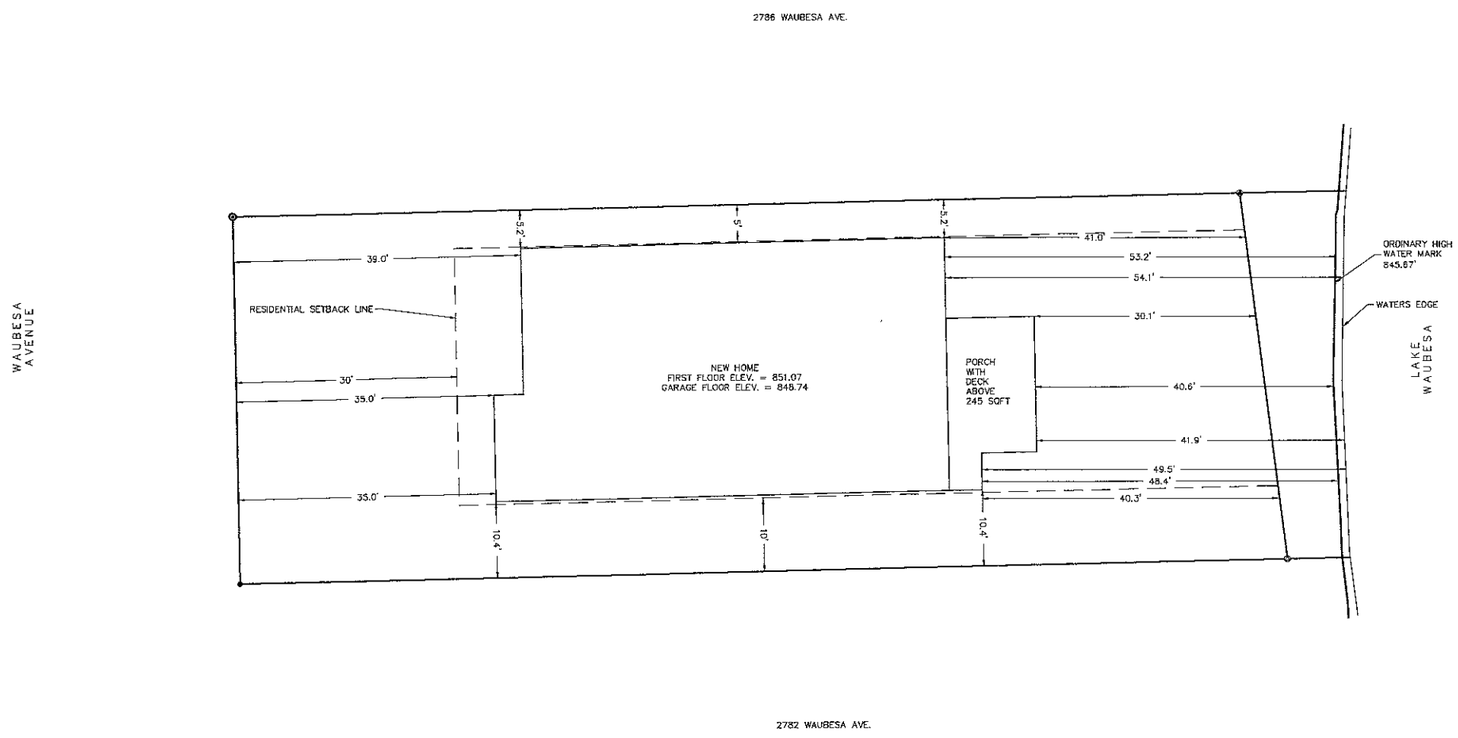
M:\BSE2187\dwg\Engineering\SITE PLAN.dwg
Printed: Jul 01, 2020 - 2:40pm Printed By: Michelle



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APPROVALS	
PROJECT MGR:	MLB
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APPROVED:	MLB

RESIDENCE

2784 Waubesa Avenue
Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #: BSE2187
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Printed: Jul 01, 2020 - 11:54am Printed By: Survey

BOUNDARY AND TOPOGRAPHIC SURVEY

LOT 20, THIRD ADDITION TO WAUBESA BEACH, RECORDED AS DOCUMENT NUMBER 314503, LOCATED IN THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER, SECTION 08, TOWNSHIP 06 NORTH, RANGE 10 EAST, TOWN OF DUNN, DANE COUNTY, WISCONSIN

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

0 10 20 30
SCALE : ONE INCH = TEN FEET

GRID NORTH
BEARINGS ARE BASED UPON THE WISCONSIN STATE COORDINATE SYSTEM, DANE ZONE

DESCRIPTION FURNISHED:

LOT 20, THIRD ADDITION TO WAUBESA BEACH, RECORDED AS DOCUMENT NUMBER 314503, LOCATED IN THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER, SECTION 08, TOWNSHIP 06 NORTH, RANGE 10 EAST, TOWN OF DUNN, DANE COUNTY, WISCONSIN

SURVEYOR'S CERTIFICATE:

I, Michelle L. Burse, Professional Land Surveyor, No. 2020, hereby certify that the foregoing survey was executed under my direction and control, and that said survey meets the minimum standards for property surveys of the Wisconsin Administrative Code (A-E7), and the map hereon is correct to the best of my knowledge and belief.

Dated this _____ day of _____, 202_.

Signed: _____
Michelle L. Burse, P.L.S. No. 2020

WISCONSIN
MICHELLE L. BURSE
S-2020
Sun Prairie WI
LAND SURVEYOR

NOTES:

1) Except as specifically stated or shown on this map, this survey does not purport to reflect any of the following which may be applicable to the subject real estate: easements; building setback lines; restrictive covenants; subdivision restrictions; zoning or other land use regulations; and any other facts that an accurate and current title search may disclose. Survey was performed without the benefit of a title report.

2) No attempt has been made as a part of this survey to obtain or show data concerning existence, size, depth, condition, capacity, or location of any utility or municipal/public service facility. For information regarding these utilities or facilities, please contact the appropriate agencies.

3) Date of field work: 04-20-2020

4) All surface and subsurface improvements on and adjacent to the site are not necessarily shown hereon.

5) All trees, hedges and ground cover on the site may not necessarily be shown hereon.

6) Routing of public utilities is based upon drawings obtained from the Town of Dunn, markings provided by Digger's Hotline Ticket Number 20201608340 and visible above ground structures. Additional buried utilities/structures may be encountered. No excavations were made to located utilities. Before excavations are performed contact Digger's Hotline.

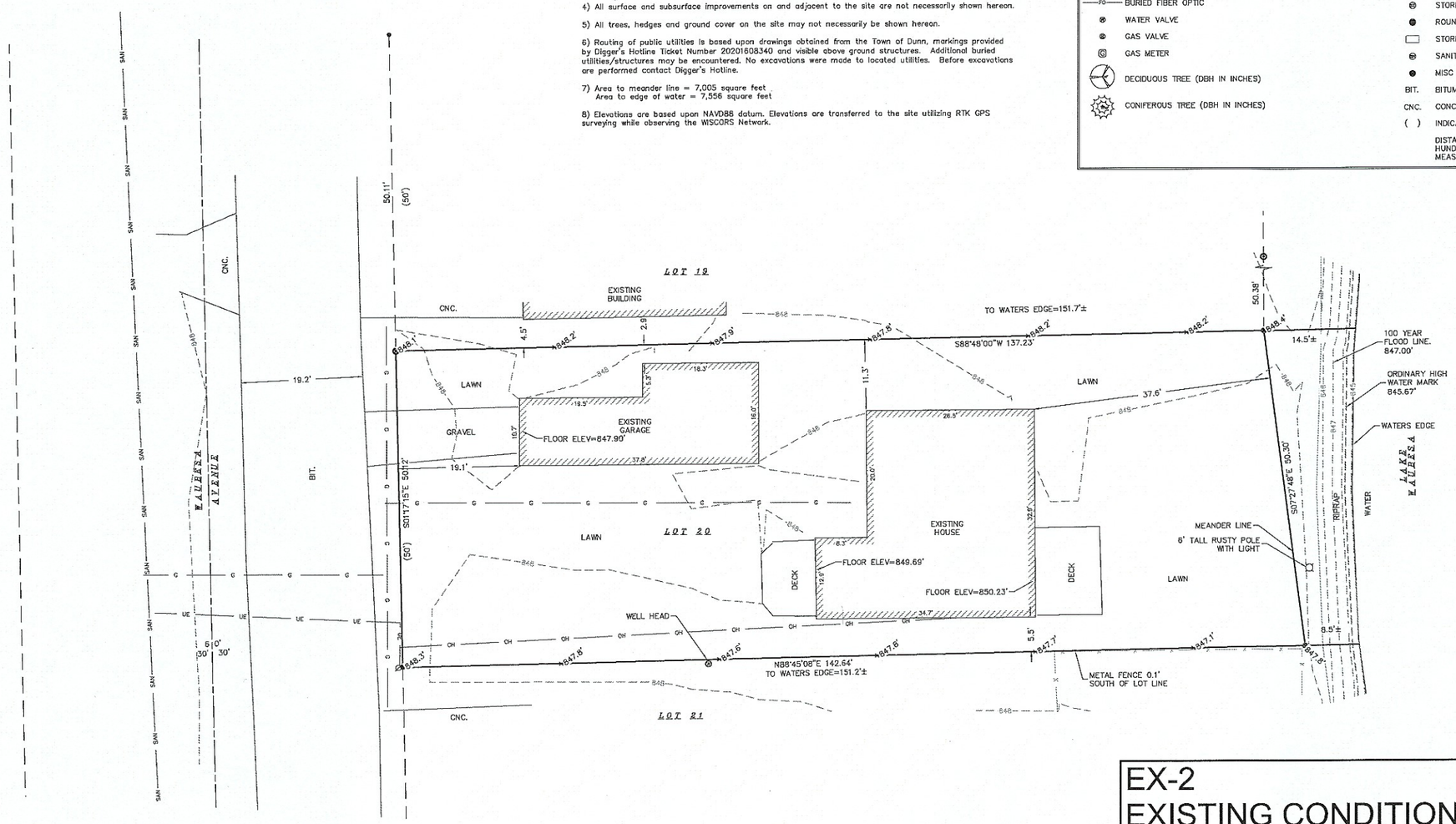
7) Area to meander line = 7,005 square feet
Area to edge of water = 7,556 square feet

8) Elevations are based upon NAVD88 datum. Elevations are transferred to the site utilizing RTK GPS surveying while observing the WISCORS Network.

LEGEND

- 1" IRON PIPE FOUND
- 3/4" SOLID IRON ROD FOUND
- 1-1/4" IRON PIPE FOUND
- MAG NAIL FOUND
- 3/4" X 18" SOLID IRON RE-ROD SET, WT. 1.50 lbs./ft.
- 851.2' SPOT ELEVATION
- OH — OVERHEAD UTILITY WIRE
- G — BURIED GAS LINE
- WM — WATER MAIN
- SAN — SANITARY SEWER
- ST — STORM SEWER
- UT — BURIED TELEPHONE
- UE — BURIED ELECTRIC
- UTV — BURIED CABLE ACCESS TELEVISION LINE
- FO — BURIED FIBER OPTIC
- WATER VALVE
- GAS VALVE
- GAS METER
- DECIDUOUS TREE (DBH IN INCHES)
- CONIFEROUS TREE (DBH IN INCHES)
- AC — AIR CONDITIONER
- TV PEDESTAL
- ELECTRIC PEDESTAL
- UTILITY POLE
- LIGHT POLE
- GROUND LIGHT
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- SIGN
- GUY WIRE
- MAILBOX
- BOLLARD
- STORM SEWER INLET
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- STORM SEWER MANHOLE
- ROUND CATCH BASIN
- STORM SEWER STRUCTURE
- SANITARY SEWER MANHOLE
- MISC SYMBOL
- BIT. BITUMINOUS PAVEMENT
- CNC. CONCRETE PAVEMENT
- ( ) INDICATES RECORDED AS

DISTANCES ARE MEASURED TO THE NEAREST HUNDREDTH OF A FOOT. BUILDINGS ARE MEASURED TO THE NEAREST TENTH OF A FOOT.



SURVEYED FOR :
ALAN BIRKLE

SURVEYED BY :
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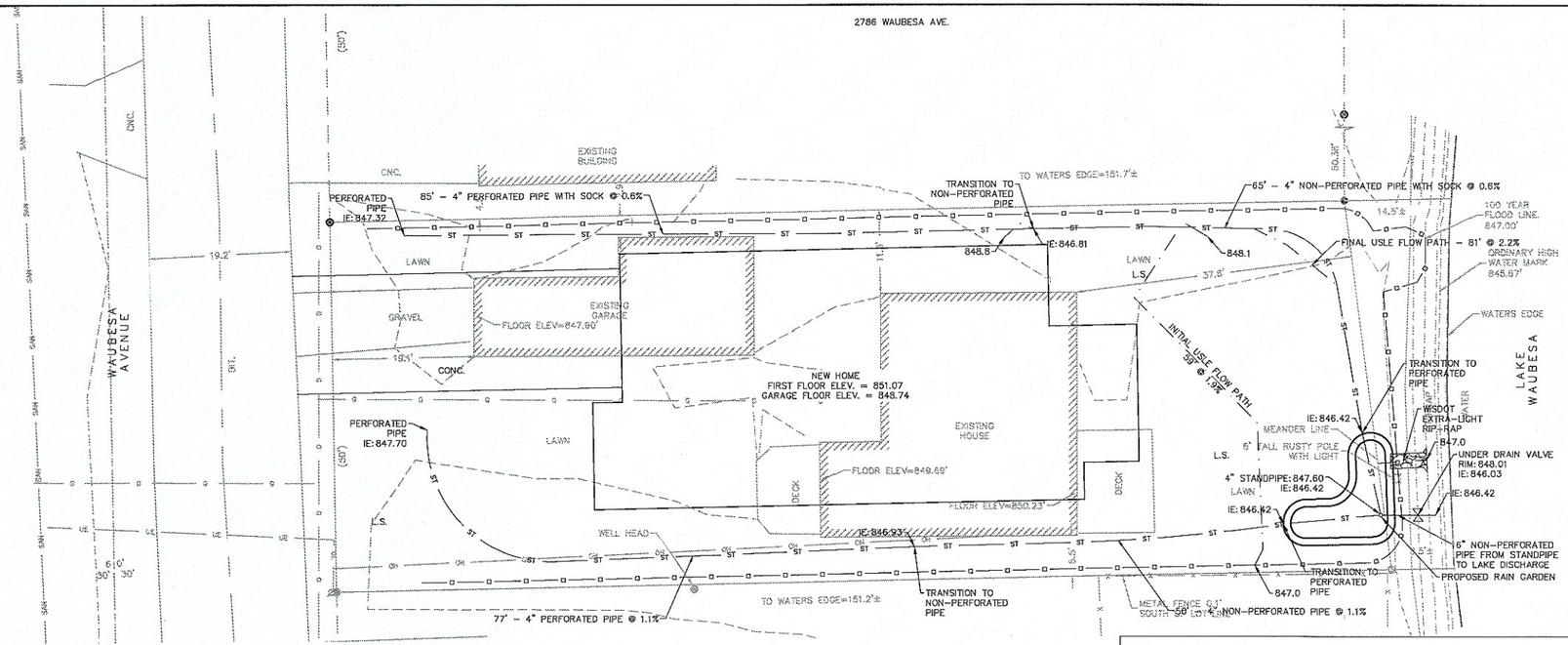
Madison, WI 53704 608.250.9263
Fax: 608.250.9266
email: mburse@bse-inc.net
www.bursesurveyengr.com

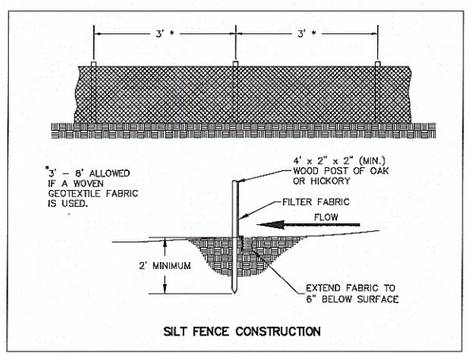
EX-2
EXISTING CONDITIONS

Date: May 12, 2020
Plot View: TOPO
\BSE2187\dwg\Survey\BSE2187v18.dwg

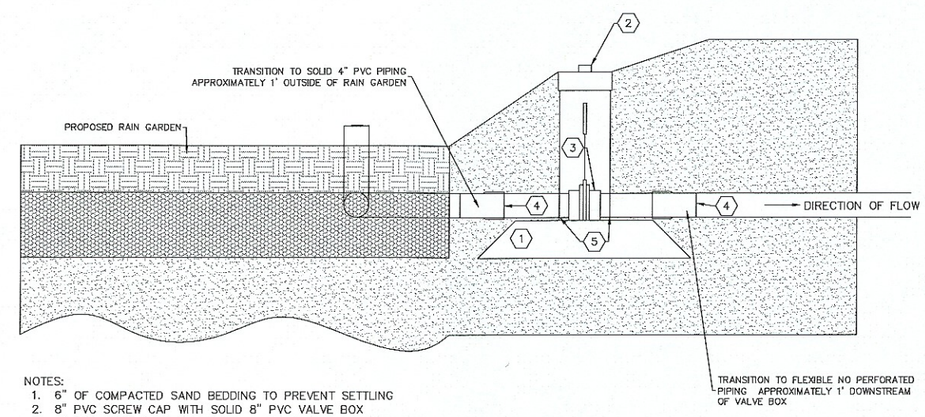
SHEET 1 OF 1

NOT FOR CONSTRUCTION





SILT FENCE CONSTRUCTION



NOTES:
1. 6" OF COMPACTED SAND BEDDING TO PREVENT SETTLING
2. 8" PVC SCREW CAP WITH SOLID 8" PVC VALVE BOX
3. 4" PVC KNIFE GATE VALVE WITH HANDLE EXTENSION AS NECESSARY TO BE OPERATED FROM GRADE
4. FERNCO SERIES 1070 COUPLING OR EQUAL
5. CREATE WATER TIGHT SEAL AT CONNECTIONS AND BOTTOM OF VALVE BOX TO PREVENT STANDING WATER

4" UNDERDRAIN VALVE

VALVE TO BE CLOSED WHEN LAKE WATER RISES ABOVE INVERT OF THE DRAINAGE PIPE AND TO BE REOPENED WHEN THE WATER HAS RECEDED BELOW THE OUTLET OF THE DRAINAGE PIPE.

EROSION CONTROL NOTES/SPECIFICATIONS:

1. EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
2. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE THE RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
3. 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 IS PRODUCED. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS. INSPECTION SCHEDULE AND RECORD KEEPING SHALL COMPLY WITH NR 216.46(9), WIS. ADM. CODE.
4. CONSTRUCTION ENTRANCES - EXISTING PAVEMENT SHALL ACT AS THE TRACKING PAD.
   a. IF TRACKING BECOMES AN ISSUE, CONTRACTOR SHALL PROVIDE A STONE TRACKING PAD AT EACH POINT OF ACCESS. INSTALL ACCORDING TO WDNR STANDARD 1057. REFER TO WDNR'S STORMWATER WEB PAGE OF TECHNICAL STANDARDS AT: HTTPS://DNR.WI.GOV/TOPIC/STORMWATER/DOCUMENTS/1057TRACKOUTCONTROLPRACTICES.PDF. THE TRACKING PAD MUST BE MAINTAINED IN A CONDITION THAT PREVENTS THE TRACKING OF MATERIAL ONTO THE PUBLIC STREET.
5. EROSION CONTROL DEVICES SHALL ADHERE TO THE TECHNICAL STANDARDS FOUND AT: HTTPS://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST_STANDARDS.HTML AND COMPLY WITH ALL DANE COUNTY ORDINANCES.
6. ALL DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE SWEPT OR SCRAPED CLEAN BY THE END OF EACH WORKDAY.
7. ALL DISTURBED AREAS SHALL BE SEEDED IMMEDIATELY AFTER GRADING ACTIVITIES HAVE BEEN COMPLETED.
8. ALL DISTURBED AREAS, EXCEPT PAVED AREAS, SHALL RECEIVE A MINIMUM OF SIX (6) INCHES OF TOPSOIL, FERTILIZER, SEED, AND MULCH. SEED MIXTURES SHALL BE SELECTED APPROPRIATE TO THE INTENDED FUNCTION. A QUALIFIED LANDSCAPING CONTRACTOR, LANDSCAPE ARCHITECT OR NURSERY CAN BE CONSULTED FOR RECOMMENDATIONS. SEEDING RATES SHALL BE BASED ON POUNDS OR OUNCES OF PURE LIVE SEED PER ACRE AND SHALL BE PROVIDED BY THE SEED SUPPLIER. FERTILIZER CAN BE APPLIED TO HELP PROMOTE GROWTH, BUT A SOIL TEST IS RECOMMENDED TO DETERMINE THE TYPE AND AMOUNT OF FERTILIZER TO BE APPLIED. ALL SEEDING AND RESTORATION SHALL BE IN CONFORMANCE TO WDNR TECHNICAL STANDARD 1059 FOUND AT HTTP://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST_STANDARDS.HTML. SEEDING AND SODDING MAY ONLY BE USED FROM MAY 1ST TO SEPTEMBER 15TH OF ANY YEAR. TEMPORARY SEED SHALL BE USED AFTER SEPTEMBER 15. IF TEMPORARY SEEDING IS USED, A PERMANENT COVER SHALL ALSO BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION.
9. FOR THE FIRST SIX (6) WEEKS AFTER THE INITIAL STABILIZATION OF A DISTURBED AREA, WATERING SHALL BE PERFORMED WHENEVER MORE THAN SEVEN (7) DAYS OF DRY WEATHER ELAPSE.

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

SCHEDULE:

JUNE 15, 2020	SILT FENCE AND EROSION CONTROL MEASURES INSTALLED
JUNE 15, 2020	TOP SOIL REMOVAL COMPLETE.
JULY 15, 2020	BUILIDNG DEMOLITION AND ROUGH SITE GRADING COMPLETE.
SEPTEMBER 15, 2020	FINE GRADING AND SEEDING COMPLETE.
AUGUST 7, 2021	RAIN GARDEN INSTALLATION COMPLETE.

EMERGENCY CONTACT

ALAN BIRKLE
6606 HAYWARD COURT
MCHENRY, IL 60050
847-370-4833
birklea@comcast.net

0 10 20

LEGEND

- CONSTRUCTION ENTRANCE
- SAW CUT / REMOVAL LIMITS
- DISTURBANCE LIMITS
- SILT FENCE
- CHECK DAM
- DIVERSION BERM
- INLET PROTECTION
- USLE FLOW PATH

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APPROVALS	
PROJECT MNG.	MLB
DESIGNED BY:	CRB
DRAWN BY:	CRB
CHECKED BY:	CRB
APPROVED BY:	MLB

RESIDENCE

2784 Waubesa Avenue
Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #: BSE2187
PLOT DATE: 06/08/2020

REVISION DATES:
05/12/2020
06/08/2020

ISSUE DATES:
05/12/2020
06/08/2020

EROSION CONTROL & UTILITY PLAN

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DRAWING NUMBER

EX-3

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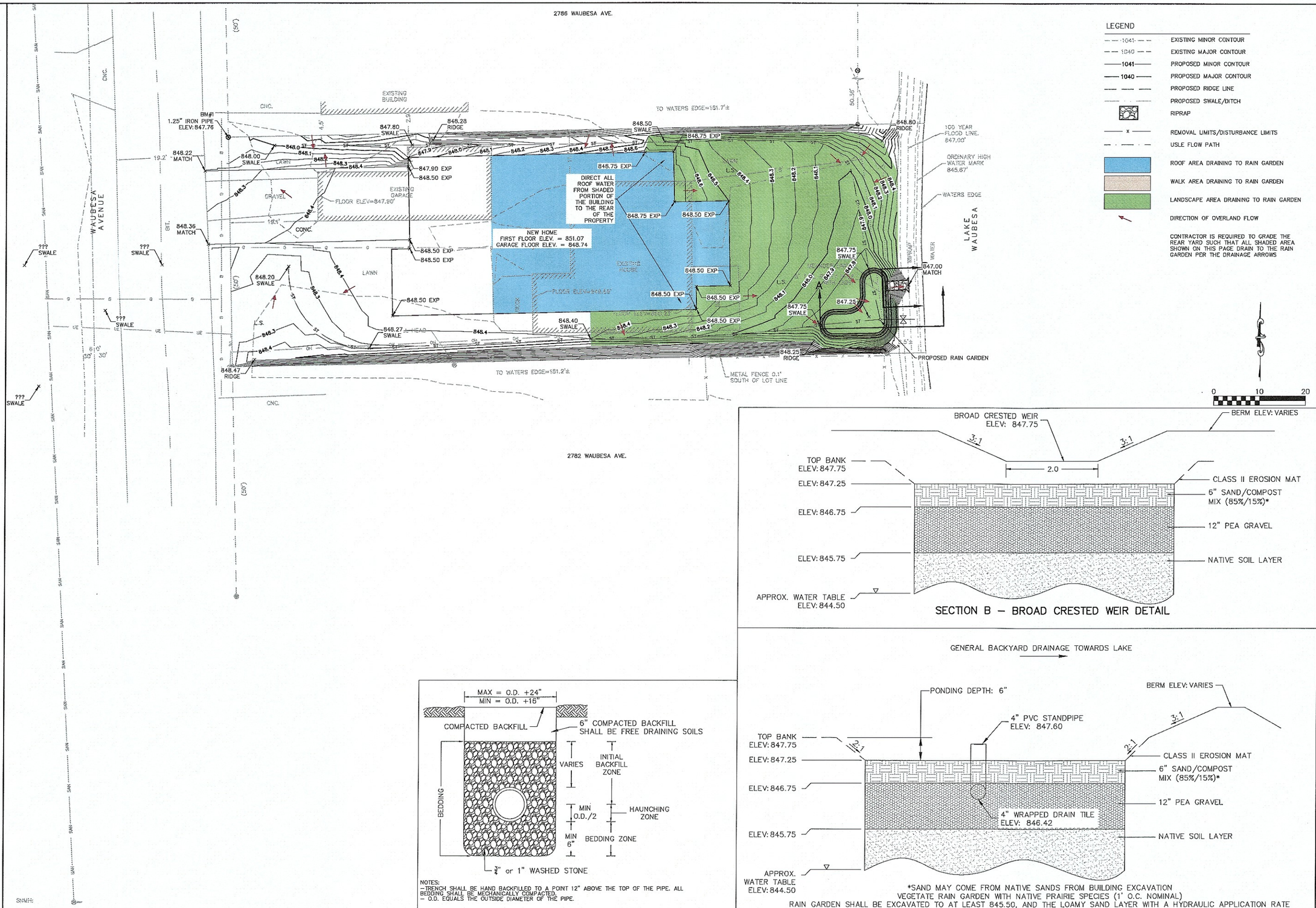

LEGEND

- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED RIDGE LINE
- PROPOSED SWALE/DITCH
- RIPRAP
- REMOVAL LIMITS/DISTURBANCE LIMITS
- USLE FLOW PATH
- ROOF AREA DRAINING TO RAIN GARDEN
- WALK AREA DRAINING TO RAIN GARDEN
- LANDSCAPE AREA DRAINING TO RAIN GARDEN
- DIRECTION OF OVERLAND FLOW

CONTRACTOR IS REQUIRED TO GRADE THE REAR YARD SUCH THAT ALL SHADED AREA SHOWN ON THIS PAGE DRAIN TO THE RAIN GARDEN PER THE DRAINAGE ARROWS

SSMH:
RIM = 848.48
INV N = 840.86
INV E = 841.08
INV S = PLUGGED
INV W = 840.96

SECTION B – BROAD CRESTED WEIR DETAIL

*SAND MAY COME FROM NATIVE SANDS FROM BUILDING EXCAVATION
VEGETATE RAIN GARDEN WITH NATIVE PRAIRIE SPECIES (1' O.C. NOMINAL)
RAIN GARDEN SHALL BE EXCAVATED TO AT LEAST 845.50, AND THE LOAMY SAND LAYER WITH A HYDRAULIC APPLICATION RATE OF 1.63IN/HR OR GREATER.

BASIN TO BE CONSTRUCTED IN COMPLIANCE WITH THE WISCONSIN DNR TECHNICAL STANDARD 1009

SECTION A – RAIN GARDEN DETAIL

NOTES:
- TRENCH SHALL BE HAND BACKFILLED TO A POINT 12" ABOVE THE TOP OF THE PIPE. ALL BEDDING SHALL BE MECHANICALLY COMPACTED.
- O.D. EQUALS THE OUTSIDE DIAMETER OF THE PIPE.

4" DRAINTILE BEDDING & BACKFILL

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APPROVALS	
PROJECT ENG.	MLB
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DRAWN BY:	CRB
CHECKED BY:	PGF
APPROVED:	MLB

RESIDENCE

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Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #: BSE2187
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06/08/2020

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06/08/2020

GRADING PLAN

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EX-4

M:\BSE2187\dwg\Engineering\Grading Plan.dwg
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LEGEND

- NEW IMPERVIOUS 1,341.5sf (0.031ac)
- REDEVELOPED IMPERVIOUS 1,581.5sf (0.036ac) 1987/7005 28.3
- REMOVED IMPERVIOUS 406.0sf (0.009ac)
- REDEVELOPED PERVIOUS 3,676.0sf (0.084ac)
- TOTAL SITE 7,005sf (0.161ac)

2922/7005 41.7%

0 10 20

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APPROVED:	MLB

RESIDENCE
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Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #: BSE2187
PLOT DATE: 05/12/2020

REVISION DATES:
05/12/2020

ISSUE DATES:
05/12/2020

PERMIT AREAS

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DRAWING NUMBER

EX-7

M:\BSE2187\dwg\Engineering\Storm Areas.dwg Printed: May 12, 2020 - 7:34am Printed By: survey

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NOTES:

SPOT GRADES INDICATE THE CUT OR FILL BETWEEN THE EXISTING SURFACE AND THE PROPOSED FINISHED GRADE SURFACE.

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Fax: 608-250-9266
e-mail: Mburse@BSE-INC.net
www.bursesurveyengr.com

APPROVALS	
PROJECT ENG:	MLB
DESIGNED BY:	CRB
DRAWN BY:	CRB
CHECKED BY:	PDF
APPROVED:	MLB

RESIDENCE
2784 Waubesa Avenue
Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #: BSE2187
PLOT DATE: 06/08/2020

REVISION DATES:
05/12/2020
06/08/2020

ISSUE DATES:
05/12/2020
06/08/2020

GRADING COMPARISON

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DRAWING NUMBER
EX-8

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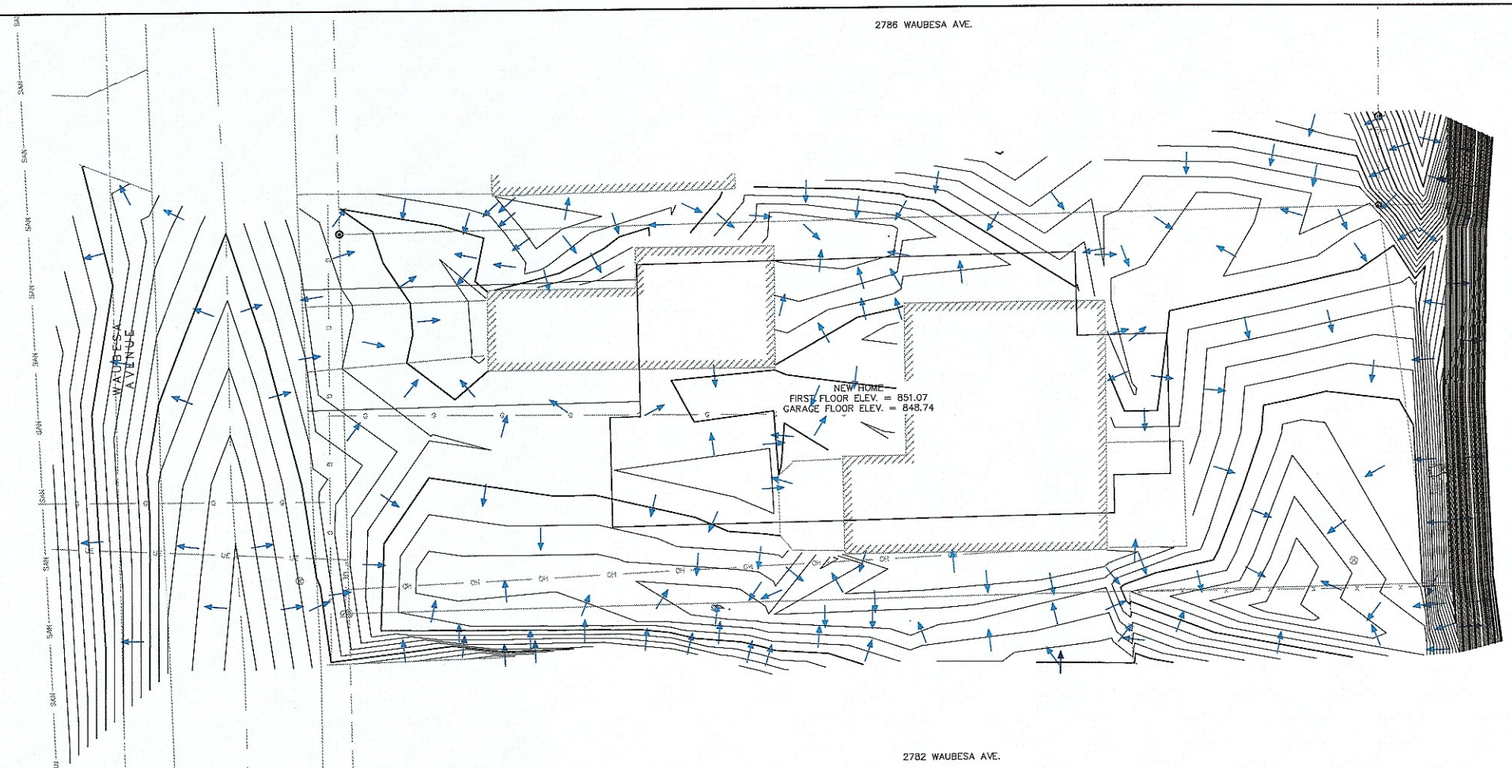
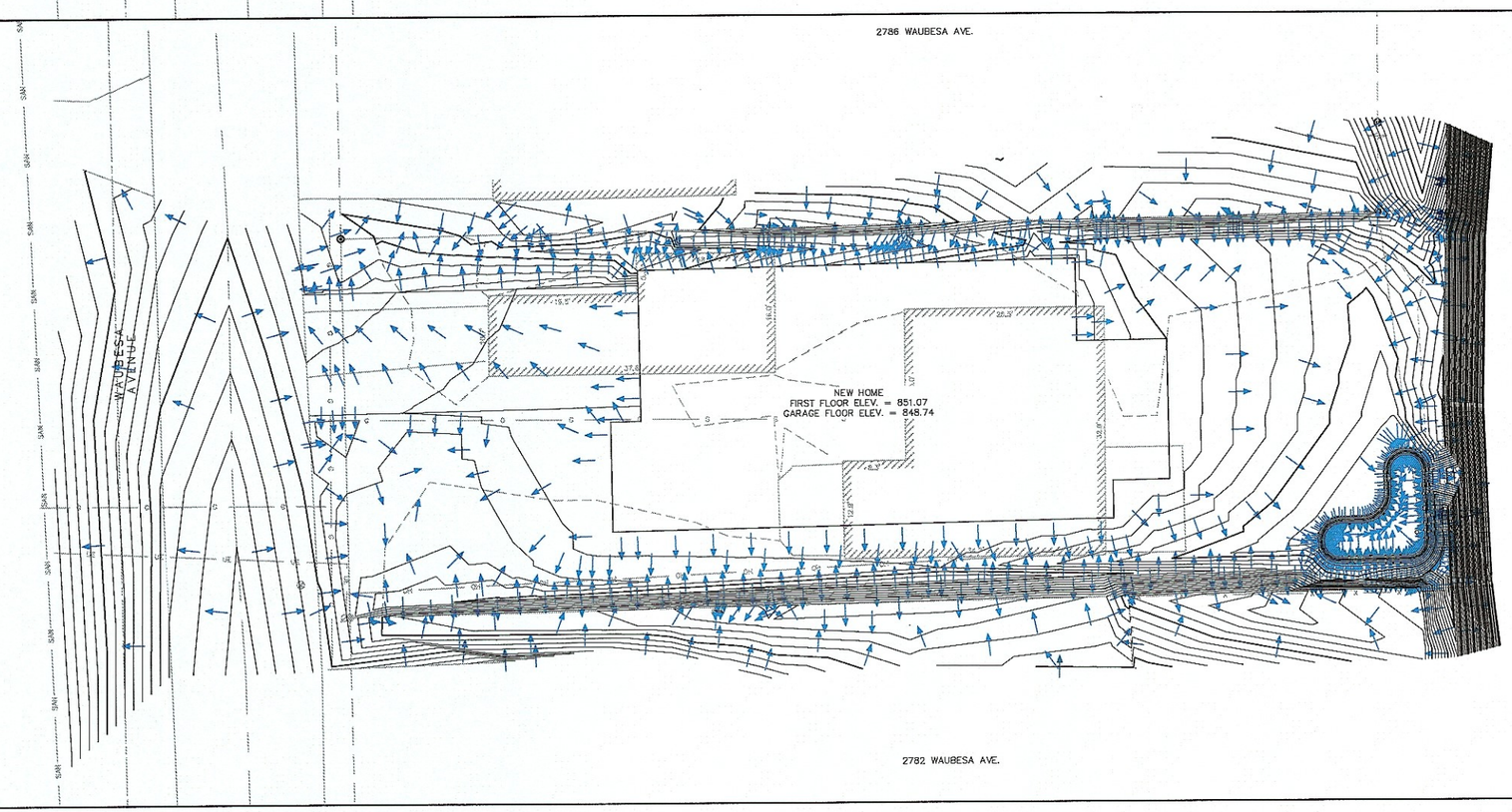


NOTES:

0.1' MINOR CONTOURS AND 0.5' MAJOR CONTOURS WITH SLOPE ARROWS ARE DISPLAYED TO SHOW EXISTING FLOW CONDITIONS AT THE PROPERTY LINES.

0 10 20

EXISTING



NOTES:

0.1' MINOR CONTOURS AND 0.5' MAJOR CONTOURS WITH SLOPE ARROWS ARE DISPLAYED TO SHOW PROPOSED FLOW CONDITIONS AT THE PROPERTY LINES.

0 10 20

PROPOSED

Burse Surveying and Engineering, Inc.
2801 International Lane, Suite 101
Madison, WI 53704
Phone: 608-250-9263
Fax: 608-250-9266
e-mail: Mburse@BSE-INC.net
www.burseurveyengr.com

APPROVALS	
PROJECT ENG:	MLB
DESIGNED BY:	CRB
DRAWN BY:	CRB
CHECKED BY:	PDF
APPROVED:	MLB

RESIDENCE
2784 Waubesa Avenue
Madison, WI 53711

Alan Birkle
2784 Waubesa Avenue
Madison, WI 53711

PROJECT #: BSE2187
PLOT DATE: 06/08/2020

REVISION DATES:
05/12/2020
06/08/2020

ISSUE DATES:
05/12/2020
06/08/2020

SLOPE COMPARISON

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DRAWING NUMBER

EX-9

M:\BSE2187\dwg\Engineering\Slope Comparison.dwg

Printed: Jun 09, 2020 - 8:43am Printed By: survey

COST ESTIMATE

The following table summarizes the estimated cost of completion and installation of all elements of erosion control and storm water management for the proposed development.

Item No.	Description	Estimated Quantity	Unit	Unit Price	Amount
1	Silt Fence	330	LF	$2.50	$825.00
2	Pond Grading	10	CY	$150.00	$1,500.00
3	4" Pipe and Pond Outlet	1	EA	$600.00	$600.00
4	Medium Riprap	4	CY	$50.00	$200.00
5	Restoration	800	SY	$3.00	$2,400.00
6	Remove Silt Fence	330	LF	$1.00	$330.00
	Total				**$5,855.00**

EX-6
COST COMPARISION

Universal Soil Loss Equation for Construction Sites

Dane County Land Conservation Division

Developer: Alan Birkle

Project: 2784 Waubesa Avenue

Date: 6/9/2020

Version 2.2

Land Disturbing Activity	Begin Date	End Date	Period % R	Annual R Factor	Soil Map Unit	Soil Erodibility K Factor	Slope (%)	Slope Length (feet)	LS Factor	Land Cover C Factor	Soil loss A=%RxRxKxLSxC (tons/acre)	Percent Reduction Required
												(7.5 tons/acre)
disturb ground	6/15/2020	7/1/2020	11.3%	150	Gn	0.17	1.9%	59	0.16	1.00	0.5	
disturb ground	7/1/2020	9/15/2020	47.3%	150	Gn	0.17	2.2%	81	0.20	1.00	2.5	
seeding	9/15/2020	-----	26.8%	150	Gn	0.17	2.2%	81	0.20	0.40	0.6	
		-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
		-----	-----	-----		-----			-----	-----	-----	
										TOTAL	3.5	NONE

Land Disturbing Activities:

input	definition
disturb ground	activity which leaves the ground devoid of vegetation
apply mulch	application of straw mulch at 1.5 tons/acre
seed and mulch	seeding and application of straw mulch at 1.5 tons/acre
seeding	temporary or permanent seeding without the use of mulching materials
sod	installation of sod
paving	providing 100% cover to disturbed ground with paving materials or stone

EX-5
USLE

Designed By:	CRB
Date	6/5/2020
Checked By:	PDF
Date	6/5/2020

Notes:

Seeding established by winter. Rain garden installaion completed sping-fall 2021.