



URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

This form may also be completed online at:
<http://www.cityofmadison.com/planning/documents/UDCapplication.pdf>

Please complete all sections of the application, including the desired meeting date and the type of action requested.

Date Submitted: <u>03/04/15</u>	<input checked="" type="checkbox"/> Informational Presentation
UDC Meeting Date: <u>03/11/15</u>	<input type="checkbox"/> Initial Approval
Combined Schedule Plan Commission Date (if applicable): <u>03/04/15</u>	<input type="checkbox"/> Final Approval

1. Project Address: 4901 Tradewinds Parkway
Project Title (if any): 2015 Unit Well 31 Water Treatment Plant & Ground Storage Reservoir

2. This is an application for (Check all that apply to this UDC application):

New Development Alteration to an Existing or Previously-Approved Development

A. Project Type:

- Project in an Urban Design District* (public hearing-\$300 fee)
- Project in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) (\$150 fee, Minor Exterior Alterations)
- Suburban Employment Center (SEC) or Campus Institutional District (CI) or Employment Campus District (EC)
- Planned Development (PD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Planned Residential Complex

B. Signage:

- Comprehensive Design Review* (public hearing-\$300 fee) Street Graphics Variance* (public hearing-\$300 fee)
- Signage Exception(s) in an Urban Design District (public hearing-\$300 fee)

C. Other:

Please specify: _____

3. Applicant, Agent & Property Owner Information:

Applicant Name: Alan Larson, PE, BCEE
Street Address: 119 East Olin Avenue
Telephone: 608 266-4651 Fax: (____) _____

Company: Madison Water Utility
City/State: Madison, WI Zip: 53713
Email: ALarson@madisonwater.org

Project Contact Person: Randy Sanford
Street Address: 10 North Bridge Street
Telephone: 715 720-6200 Fax: 715 720-6300

Company: SEH, Inc
City/State: Chippewa Falls, WI Zip: 54729
Email: rsanford@sehinc.com

Project Owner (if not applicant): Same as Applicant
Street Address: _____
Telephone: (____) _____ Fax: (____) _____

City/State: _____ Zip: _____
Email: _____

4. Applicant Declarations:

A. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with _____ UDC _____ on _____ 02/03/15 _____
(name of staff person) (date of meeting)

B. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of Applicant Alan Larson Relationship to Property MWU

Authorized Signature R. Mangano for ALarson Date 3/4/2015



March 4, 2015

Planning and Community & Economic Office
Planning Division
115 Martin Luther King Jr. Blvd., Suite LL 100
Madison Municipal Building
Madison, WI 53703

RE: Unit Well 31 Facility
New unit well, water treatment plant, and ground storage reservoir on CSM 105016
Land Use Application for Conditional Use

Dear Plan Commission:

This letter serves as the Letter of Intent for the Unit Well No. 31 project for Madison Water Utility. The following describes the project.

Project Address:

4901 Tradewinds Parkway
Madison, WI 53718

Project Description:

The project includes the construction of a new water treatment facility in conjunction with the recently constructed Well 31 for Madison Water Utility Pressure Zone 4. The water treatment building will house 16 vertical pressure filters for iron and manganese removal, two above grade backwash tanks, a booster pumping station, and an attached utility storage building. In addition to the new water treatment building a 1.5 million gallon ground water storage tank will be constructed of wire-wound pre-cast concrete, approximately 85 feet in diameter and approximately 40 feet tall.

The site is located along Tradewinds Parkway, an emerging development within the City Limits just southwest of the intersection of Beltline Highway and Agriculture Drive. The site exists within the 2011 Genesis development located on lot 9, with a pre-approved stormwater management plan. To the best-extent practical, all stormwater will be shed to the south into the pre-approved stormwater pond as discussed with the City of Madison Engineering Department. Storm water will be routed through drainage ditches and a buried storm sewer system.

A stormwater easement was designated in 2011 for the stormwater pond. The pond was sized for a completely paved lot. To the south, there is a wetland classified as Fresh (Wet) Meadow (Type 2/PEMB/E2K). This is considered a "less-susceptible" wetland, and thus impervious surfaces will be kept at least 10 feet away, according to NR 151.

The proposed facility has a 12,000 square-foot fenced storage yard and two driveways. Traffic patterns were set up to be accessible by tractor trailer vehicles with a wheel base of up to 62 feet. Trucks with a wheel base of 40 feet or less will be able to enter the storage building, while larger trucks can access the site with the backyard driveway through the fenced storage yard.

Construction will occur in two phases: one phase for the ground storage tank and another phase for the water treatment plant. Madison Water Utility has been coordinating with the City Alder for the area and the Citizen Advisory Panel (CAP) on all aspects of the project, including the water treatment building aesthetic and details, 1.5 million gallon ground water storage, and construction phase details. The CAP process has been in place since 2008 and has included site selection, well construction, facility design and will continue through the completion of the project.

Development Team:

Owner – Madison Water Utility – Alan Larson, PE, Adam Wiederhoeft, PE
Consulting Engineer – Short Elliott Hendrickson, Inc. – Randy Sanford, PE
Architect – Potter Lawson, Inc. – Robert Mangas AIA, Doug Hursh, AIA

Construction Details:

Construction is anticipated to start in August 2015 and be complete by November 2016.

Approvals Requested:

This application is for approval of a major alteration to an existing site which is an allowed conditional use in a Industrial zoning district under the 2015 City of Madison zoning code. Approvals requested include:

- Permit to erect new water treatment building with an attached utility storage building and 1.5 million gallon ground water storage reservoir.
- Conditional Use Application for a new water treatment plant and ground storage reservoir.

Certified Survey Map:

Genesis Plat Map - CSM 105016

Compatibility with Approved Master Plans:

The Unit Well 31 project team is working to ensure that the project will satisfy the overall goals and character of the City, provide consideration to neighboring businesses and residents, and incorporating the methods contained in the Genesis Stormwater Management Plan (adopted in 2011).

Neighborhood and City Process:

The Madison Water Utility has been coordinating with the area CAP since July 2008 from the inception of the project. In addition to posting project information on the Utilities website, public meetings regarding facility design were held in September, November and December 2014. The site has been classified as Industrial under the Marsh Road Neighborhood Development Plan, adopted in 1999 and is still currently zoned Industrial in the City of Madison's Zoning map.

Buildings on the Site:

No structures currently exist on the site.

Site Access and Parking:

Vehicular and construction access to the site is from Tradewinds Parkway. Contractor access and use of the site will be from USH 51 and Tradewinds Parkway. Any damage from the construction process will be repaired by the contractors completing the work.

The site will include the construction of new paved driveways, parking areas, and storage/utility areas. Approximately 1.13 acres of impervious area will be constructed on the site, approximately 52 percent of the total 2.18 acres of disturbance.

If additional information is required, please contact Randy Sanford, Adam Wiederhoeft or me.

Sincerely,

MADISON WATER UTILITY



Alan L. Larson, PE, BCEE
Principal Engineer

Attachments:

- SHEET 1.....G1 - TITLE SHEET
- SHEET 2.....URBAN DESIGN DISTRICT NO. 1 OVERVIEW
- SHEET 3.....URBAN DESIGN DISTRICT NO. 1
- SHEET 4.....MARSH ROAD NEIGHBORHOOD DEVELOPMENT PLAN
- SHEET 5.....PROJECT LOCATION IN EXISTING WATER SYSTEM
- SHEET 6.....PROJECT SITE
- SHEET 7..... SURFACE WATER DATA VIEWER MAP
- SHEET 8-10.....GENESIS PLAT MAP
- SHEET 11.....G2 - UNIT WELL 31 SITE PLAN
- SHEET 12..... C2 - UNIT WELL 31 GRADING PLAN
- SHEET 13..... C1 - UNIT WELL 31 UTILITY PLAN
- SHEET 14..... SL – SITE LIGHTING PHOTOMETRIC PLAN
- SHEET 15..... L1 - LANDSCAPE PLAN
- SHEET 16..... L2 - LANDSCAPE DETAILS
- SHEET 17.....A01 - FLOOR PLANS
- SHEET 18.....A02 - BUILDING ELEVATIONS
- SHEET 19.....A03 - BUILDING ELEVATIONS
- SHEET 20.....A04 - TANK ELEVATIONS, SECTIONS & DETAILS
- SHEET 21.....A05 - BUILDING PERSPECTIVE
- SHEET 22.....A06 - BUILDING PERSPECTIVE

- c: Randy Sanford, PE – Short Elliott Hendrickson, Inc.
Robert Mangas AIA – Potter Lawson, Inc.
Doug Hursh, AIA – Potter Lawson, Inc.
Adam Wiederhoeft, PE – Madison Water Utility

Madison Water Utility – Well 31 4901 Tradewinds Parkway
Existing site context photos



Hotel Building - looking east



Hotel building - looking west



Bauer & Raether building



Tradewinds Parkway - looking northeast



Project site - viewed from northwest



Project site - viewed from northeast

Madison Water Utility – Well 31 4901 Tradewinds Parkway
Existing site context photos



Project site - view looking south



Project site - view looking north



Project site - view from SW corner



Project site - drainage swale

Betula alleghaniensis - Yellow Birch



Carya ovata - Shagbark Hickory



Quercus macrocarpa - Bur Oak



Ostrya virginiana - Ironwood



Pinus strobus - Eastern White Pine



Cornus stolonifera - Red Osier Dogwood



Ilex verticillata - Winterberry



Viburnum lentago - Nannyberry



Clematis virginiana - Virgin's Bower



Hypericum kalmianum - St. John's Wort





D-Series Size 1 LED Wall Luminaire



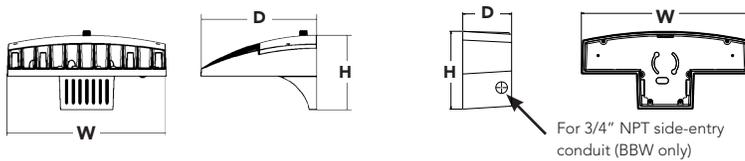
d#series

Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)	BBW Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	ELCW Weight:	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



Catalog Number
Notes
Type

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

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DBBTDX

DSXW1 LED																
Series	LEDs	Drive Current		Color temperature		Distribution		Voltage	Mounting	Control Options	Other Options	Finish (required)				
DSXW1 LED	10C 10 LEDs (one engine)	350	350 mA	30K	3000 K	T2S	Type II	MVOLT ¹	Shipped included (blank) Surface mounting bracket	Shipped installed PE Photoelectric cell, button type ⁴	Shipped installed SF Single fuse (120, 277 or 347V) ⁷	DDBXD	Dark bronze			
				40K	4000 K		Short					120 ¹	DF Double fuse (208, 240 or 480V) ⁷	DBLXD	Black	
		700	700 mA	50K	5000 K	T2M	Medium					208 ¹	DMG 0-10V dimming driver (no controls)	DNAXD	Natural aluminum	
		1000	1000 mA (1 A)	AMBPC	Amber phosphor converted	T3S	Type III					277 ¹	PIR 180° motion/ambient light sensor, <15' mtg ht ⁵	HS House-side shield ⁸	DWHXD	White
						T3M	Type III					347 ²		PIRH 180° motion/ambient light sensor, 15-30' mtg ht ⁵	DSSXD	Sandstone
	T4M	Type IV	480 ²	ELCW Emergency battery backup (includes external component enclosure) ⁹	Shipped separately	SPD Separate surge protection ⁹	DBBTDX	Textured dark bronze								
	TFTM	Forward Throw				DBLTXD	Textured black									
	ASVDF	Asym-metric diffuse								DNATXD	Textured natural aluminum					
										BSW Bird-deterrent spikes	DWHGXD	Textured white				
										WG Wire guard	DSSTXD	Textured sandstone				
									VG Vandal guard							
									DDL Diffused drop lens							

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- PIR specifies the Sensor Switch SBGR-10-ODP control; PIRH specifies the Sensor Switch SBGR-6-ODP control; see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
- Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
- Also available as a separate accessory; see Accessories information.
- See the electrical section on page 3 for more details.

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1WG U	Wire guard accessory
DSXW1VG U	Vandal guard accessory



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K					40K					50K					AMBER					
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
10C (10 LEDs)	530mA	20W	T2S	1,843	1	0	1	92	1,956	1	0	1	98	1,729	1	0	1	86	1,264	0	0	1	63	
			T2M	1,756	1	0	1	88	1,864	1	0	1	93	1,648	1	0	1	82	1,205	0	0	1	60	
			T3S	1,822	0	0	1	91	1,934	0	0	1	97	1,710	0	0	1	86	1,250	0	0	1	63	
			T3M	1,804	1	0	1	90	1,914	1	0	1	96	1,693	1	0	1	85	1,237	0	0	1	62	
			T4M	1,767	1	0	1	88	1,876	1	0	1	94	1,658	0	0	1	83	1,212	0	0	1	61	
			TFTM	1,837	0	0	1	92	1,950	0	0	1	98	1,724	0	0	1	86	1,260	0	0	1	63	
	ASDF	1,642	1	0	1	82	1,743	1	0	1	87	1,541	1	0	1	77	1,127	0	0	1	56			
	700mA	27W	T2S	2,272	1	0	1	84	2,409	1	0	1	89	2,421	1	0	1	90	1,544	0	0	1	57	
			T2M	2,165	1	0	1	80	2,296	1	0	1	85	2,307	1	0	1	85	1,472	0	0	1	55	
			T3S	2,247	1	0	1	83	2,382	1	0	1	88	2,394	1	0	1	89	1,527	0	0	1	57	
			T3M	2,224	1	0	1	82	2,358	1	0	1	87	2,370	1	0	1	88	1,512	0	0	1	56	
			T4M	2,179	1	0	1	81	2,310	1	0	1	86	2,322	1	0	1	86	1,481	0	0	1	55	
			TFTM	2,265	1	0	1	84	2,401	1	0	1	89	2,413	1	0	1	89	1,539	0	0	1	57	
	ASDF	2,025	1	0	1	75	2,147	1	0	1	80	2,158	1	0	1	80	1,376	1	0	1	51			
	1000mA	40W	T2S	3,011	1	0	1	75	3,190	1	0	1	80	3,202	1	0	1	80	2,235	1	0	1	58	
			T2M	2,870	1	0	1	72	3,040	1	0	1	76	3,051	1	0	1	76	2,130	1	0	2	55	
			T3S	2,978	1	0	1	74	3,155	1	0	1	79	3,166	1	0	1	79	2,210	1	0	2	57	
			T3M	2,948	1	0	1	74	3,123	1	0	1	78	3,134	1	0	1	78	2,187	1	0	2	56	
			T4M	2,888	1	0	1	72	3,059	1	0	1	76	3,071	1	0	1	77	2,143	1	0	2	55	
			TFTM	3,002	1	0	1	75	3,180	1	0	1	80	3,192	1	0	1	80	2,228	1	0	2	57	
	ASDF	2,684	1	0	1	67	2,843	1	0	1	71	2,854	1	0	1	71	1,991	1	0	2	51			
	20C (20 LEDs)	530mA	36W	T2S	3,649	1	0	1	101	3,876	1	0	1	108	3,429	1	0	1	95	2,504	1	0	1	70
				T2M	3,478	1	0	1	97	3,694	1	0	1	103	3,267	1	0	1	91	2,387	1	0	1	66
				T3S	3,609	1	0	1	100	3,833	1	0	1	106	3,390	1	0	1	94	2,477	1	0	1	69
T3M				3,572	1	0	1	99	3,794	1	0	1	105	3,356	1	0	1	93	2,451	1	0	2	68	
T4M				3,500	1	0	2	97	3,717	1	0	2	103	3,288	1	0	1	91	2,402	1	0	1	67	
TFTM				3,638	1	0	1	101	3,864	1	0	1	107	3,418	1	0	1	95	2,496	1	0	1	69	
ASDF		3,252	1	0	2	90	3,454	1	0	2	96	3,056	1	0	2	85	2,232	1	0	1	62			
700mA		47W	T2S	4,502	1	0	1	96	4,776	1	0	1	102	4,794	1	0	1	102	3,065	1	0	1	65	
			T2M	4,290	1	0	1	91	4,552	1	0	1	97	4,569	1	0	1	97	2,921	1	0	1	62	
			T3S	4,452	1	0	1	95	4,723	1	0	2	100	4,741	1	0	2	101	3,031	1	0	1	64	
			T3M	4,407	1	0	2	94	4,675	1	0	2	99	4,693	1	0	2	100	3,000	1	0	1	64	
			T4M	4,318	1	0	2	92	4,581	1	0	2	97	4,598	1	0	2	98	2,939	1	0	1	63	
			TFTM	4,488	1	0	2	95	4,761	1	0	2	101	4,779	1	0	2	102	3,055	1	0	1	65	
ASDF		4,012	1	0	2	85	4,257	1	0	2	91	4,273	1	0	2	91	2,732	1	0	1	58			
1000mA		74W	T2S	5,963	1	0	1	80	6,327	1	0	1	84	6,351	1	0	1	85	4,429	1	0	1	61	
			T2M	5,683	1	0	2	76	6,029	1	0	2	80	6,052	1	0	2	81	4,221	1	0	2	58	
			T3S	5,896	1	0	2	79	6,256	1	0	2	83	6,280	1	0	2	84	4,380	1	0	2	60	
			T3M	5,837	1	0	2	78	6,193	1	0	2	83	6,216	1	0	2	83	4,335	1	0	2	59	
			T4M	5,719	1	0	2	76	6,067	1	0	2	81	6,090	1	0	2	81	4,248	1	0	2	58	
			TFTM	5,944	1	0	2	79	6,307	1	0	2	84	6,330	1	0	2	84	4,415	1	0	2	60	
ASDF		5,314	1	0	2	71	5,638	2	0	2	75	5,660	2	0	2	75	3,947	1	0	2	54			

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

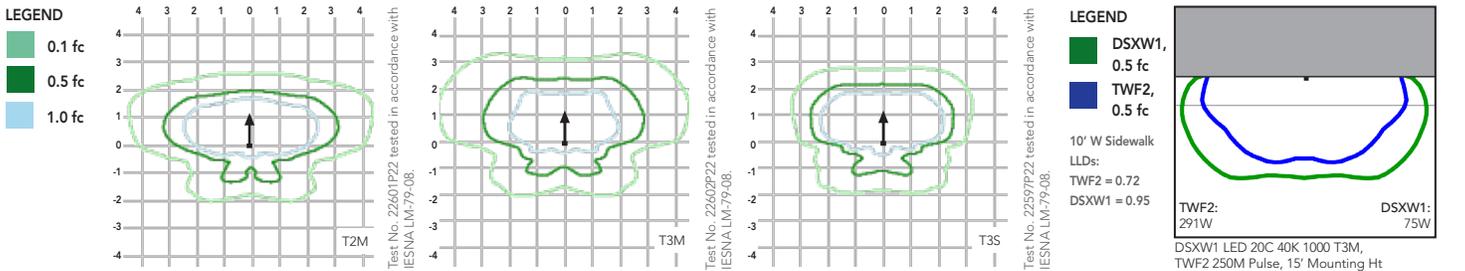
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	25 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	75 W	0.69	0.40	0.35	0.30	0.23	0.17

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

Isfootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Options and Accessories



T3M (left), ASYDF (right) lenses



HS - House-side shields



BSW - Bird-deterrent spikes



WG - Wire guard



VG - Vandal guard



DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (80 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a

power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.





d[®]series

D-Series Size 1 LED Flood Luminaire



Catalog
Number

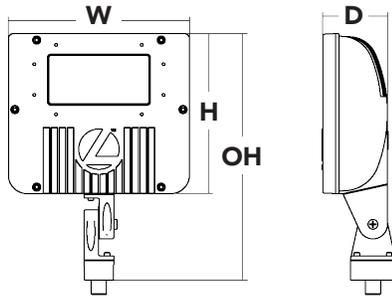
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Specifications

EPA:	0.6 ft ² (0.05 m ²)
Depth:	3-1/8" (8.0 cm)
Width:	8-7/8" (22.4 cm)
Height:	7-3/4" (19.8 cm)
Overall Height:	12" (30.5 cm)
Weight:	7.2 lbs (3.3 kg)



Introduction

The D-Series Size 1 Flood features precision optics to beautifully illuminate a variety of applications while its sleek, compact styling blends seamlessly with the environment.

The D-Series Flood reflector systems and cutting-edge chip-on-board LED technology produce low field-to-beam ratios for minimal spill light and incredible photometric performance. It's the ideal long-life replacement for 50 - 150W metal halide floods, with typical energy savings of 72% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSXF1 LED 2 A530/40K MSP MVOLT THK DDBXD

Series	Light Engines	Performance Package	Distribution	Voltage	Mounting	Options	Finish <i>(required)</i>
DSXF1 LED	1 One COB engine 2 Two COB engines	530 mA options: A530/30K 3000K A530/40K 4000K A530/50K 5000K	NSP Narrow spot MSP Medium spot MFL Medium flood FL Flood WFL Wide flood WFR Wide flood, rectangular HMF Horizontal flood	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹	Shipped included THK Knuckle with 1/2" NPS threaded pipe IS Integral slipfitter (fits 2-3/8" O.D. tenon) Shipped separately ² DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required)	Shipped installed PE Photocontrol, button style ³ SF Single fuse (120, 277V) ⁴ Shipped separately ² UBV Upper/bottom visor (universal) FV Full visor VG Vandal guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
DSXF1 LED 1 A530/40K WFL MVOLT THK DDBXD	DSXF1 LED 1 40K
DSXF1 LED 1 A530/50K WFL MVOLT THK DDBXD	DSXF1 LED 1 50K
DSXF1 LED 2 A530/40K WFL MVOLT THK DDBXD	DSXF1 LED 2 40K
DSXF1 LED 2 A530/50K WFL MVOLT THK DDBXD	DSXF1 LED 2 50K

Accessories

Ordered and shipped separately.

DSXF1/2TS DDBXD U	Slipfitter for 1-1/4" to 2-3/8" O.D. tenons; mates with 1/2" threaded knuckle (specify finish)
FRWB DDBXD U	Radius wall bracket, 2-3/8" O.D. tenon (specify finish)
FSPB DDBXD U	Steel square pole bracket, 2-3/8" O.D. tenon (specify finish)
DSXF1UBV DDBXD U	Upper/bottom visor accessory (specify finish)
DSXF1FV DDBXD U	Full visor accessory (specify finish)
DSXF1VG U	Vandal guard accessory

For more mounting options, visit our [Floodlighting Accessories](#) pages.

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF option) or photocontrol (PE).
- Also available as separate accessories; see Accessories information at left.
- Photocontrol (PE) requires 120, 208, 240 or 277 voltage option.
- Single fuse (SF) requires 120 or 277 voltage option.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual values may differ by +/- 8% when operating between 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

Light Engines	Drive Current (mA)	Performance Package	System Watts	Dist. Type	Field Angle		Beam Angle		30K (3000K, 70 CRI)			40K (4000K, 70 CRI)			50K (5000K, 70 CRI)							
					°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW					
1	530	A530/-K	19W	NSP	48	49	19	19	7062	1408	74	7300	1692	89	7277	1700	89					
					MSP	50	48	24	23	6782	1541	81	6740	1923	101	6719	1916	101				
						MFL	60	60	47	46	2249	1316	69	2806	1581	83	2797	1588	84			
							FL	85	84	63	62	1845	1752	92	1855	2105	111	1849	2115	111		
								WFL	106	106	71	72	1301	1739	92	1391	1995	105	1387	2099	110	
									WFR	107	88	85	64	1279	1764	93	1386	2119	112	1381	2129	112
										HMF	100	62	80	13	1445	771	41	1259	927	49	1255	931
2	530	A530/-K	37W	NSP	48	49	19	19	13,379	2668	72	13,803	3206	87	13,760	3221	87					
					MSP	50	48	24	23	12,850	2920	79	12,744	3643	98	12,704	3631	98				
						MFL	60	60	47	46	4260	2493	67	5305	2995	81	5288	3009	81			
							FL	85	84	63	62	3496	3320	90	3507	3989	108	3496	4008	108		
								WFL	106	106	71	72	2465	3294	89	2630	3958	107	2622	3977	107	
									WFR	107	88	85	64	2422	3342	90	2620	4015	109	2612	4034	109
										HMF	100	62	80	13	2738	1462	40	2381	1756	47	2374	1764

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.07
10°C	1.04
20°C	1.02
25°C	1.00
30°C	0.98
40°C	0.95

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXF1 LED 2 A530** platform based on 8400 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.90	0.80

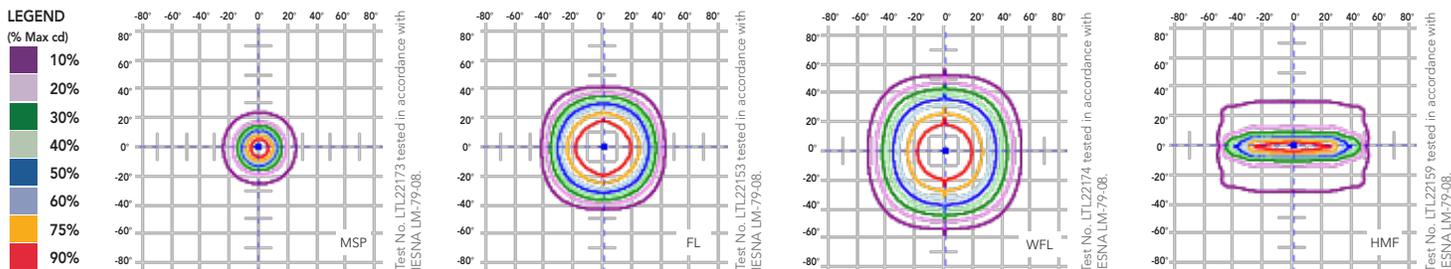
Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
1	530	19W	0.16	0.1	0.09	0.08	-	-
2	530	37W	0.32	0.19	0.17	0.15	-	-

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Flood Size 1 homepage](#).

Isocandela plots for the DSXF1 LED 2 A530/40K.



Mounting, Options and Accessories



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 Flood reflects the embedded high performance LED technology. It is ideal for landscape, signage and accent lighting in many commercial and residential applications.

CONSTRUCTION

Die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.6 ft²) for optimized wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

A variety of precision-molded vacuum-metallized specular reflectors are engineered for superior field-to-beam ratios, uniformity and spacing. Light engines are available in 3000K (70 CRI min.), 4000K (70 CRI min.) or 5000K (70 CRI min.) configurations. Optional visors offer additional versatility.

ELECTRICAL

Light engine(s) consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life (100,000 hrs, L80). Single-engine unit uses a Class 2 electronic driver; dual-engine unit uses a Class 1 electronic driver. Both drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours. Surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Integral adjustable knuckle with 1/2-14NPS threaded pipe, tenon slipfitter, or integral slipfitter, facilitates quick and easy installation to a variety of mounting accessories. This secure connection enables the D-Series Size 1 to withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.





TWR1 LED

LED Wall Luminaire

Catalog
Number

Notes

Type

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

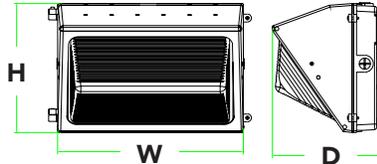
Specifications

Width: 12-15/16"
(32.9 cm)

Height: 9"
(22.9 cm)

Depth: 7-1/2"
(19 cm)

Weight: 11.95 lbs
(5.42kg)



Introduction

The popular TWR1 luminaire is now available with long-lasting, energy-efficient LED technology. Featuring a classic dayform, the TWR1 LED offers a traditional appearance and is powered by advanced LEDs.

The TWR1 LED luminaire is powerful yet energy efficient, capable of replacing up to a 320W metal halide luminaire while saving up to 80% in energy costs. Offering an expected service life of more than 20 years, the TWR1 LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

Ordering Information

EXAMPLE: TWR1 LED 2 50K MVOLT

TWR1 LED						
Series	Performance Package		Color Temperature	Voltage	Controls	Finish
TWR1 LED	1	2100 lumens	40K 4000K ¹	MVOLT ²	(blank) No controls PE ³ MVOLT Photo Control	(blank) Dark bronze
	2	3500 lumens	50K 5000K ¹			
	3	4900 lumens				

NOTES

- Correlated color temperature (CCT) shown is nominal per ANSI C78, 377-2008. Except TWR1 LED 1 50K which is 5400 CCT.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Photo control not available with 4000K.

FEATURES & SPECIFICATIONS

INTENDED USE

The TWR1 LED combines traditional wall pack design with high-output LEDs to provide an energy-efficient, low maintenance LED wall pack suitable for replacing up to 320W MH fixtures. The traditional shape helps maintain building aesthetics when replacing only a portion of your building's wall packs. TWR1 LED is ideal for outdoor applications such as carports, loading areas, driveways and parking areas.

CONSTRUCTION

Rugged cast-aluminum housing with bronze polyester powder paint for lasting durability. Door is hinged on the side so door swings out of the way during installation and service. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. MVOLT driver operates on any line voltage from 120-277V (50/60Hz). 6kV surge protection. Rated for outdoor installations, -40°C minimum ambient.

OPTICS

High-performance LEDs maintain up to 87% of light output at 100,000 hours of service life (L87/100,000 hours). Prismatic glass lens designed for superior lighting distribution, uniformity and fixture spacing. See Lighting Facts label and photometry reports for specific fixture performance.

INSTALLATION

Designed for wall mounting above four feet from ground. Housing is configured for mounting directly over a standard 4" outlet box (by others) or for surface wiring via any of three convenient 1/2" threaded conduit entry hubs.

LISTINGS

UL Listed to U.S. and Canadian safety standards for wet locations. Tested in accordance with IESNA LM-79 and LM-80 standards.

WARRANTY

Five-year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications are subject to change without notice. Actual performance may differ as a result of end-user environment and application.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application.

Fixture Model Number	CCT	Drive Current	System Watts	Lumens	B	U	G	LPW	CRI
TWR1 LED 1 40K MVOLT	4000K	960mA	33W	2161	0	3	2	66	75
TWR1 LED 1 50K MVOLT	5000K	960mA	35W	2126	0	3	2	62	70
TWR1 LED 2 40K MVOLT	4000K	530mA	39W	3497	1	3	3	90	73
TWR1 LED 2 50K MVOLT	5000K	530mA	41W	3527	1	3	3	86	66
TWR1 LED 3 40K MVOLT	4000K	530mA	55W	4966	1	3	3	91	73
TWR1 LED 3 50K MVOLT	5000K	530mA	59W	4875	1	3	3	83	66

Electrical Load

Fixture Model Number	Drive Current	System Watts	Current Load (A) @			
			120V	208V	240V	277V
TWR1 LED 1 40K MVOLT	960mA	33W	0.31	0.18	0.15	0.13
TWR1 LED 1 50K MVOLT	960mA	35W	0.34	0.20	0.17	0.15
TWR1 LED 2 40K MVOLT	530mA	39W	0.36	0.21	0.18	0.16
TWR1 LED 2 50K MVOLT	530mA	41W	0.40	0.23	0.20	0.17
TWR1 LED 3 40K MVOLT	530mA	55W	0.51	0.29	0.25	0.22
TWR1 LED 3 50K MVOLT	530mA	59W	0.56	0.32	0.28	0.24

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a 40°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

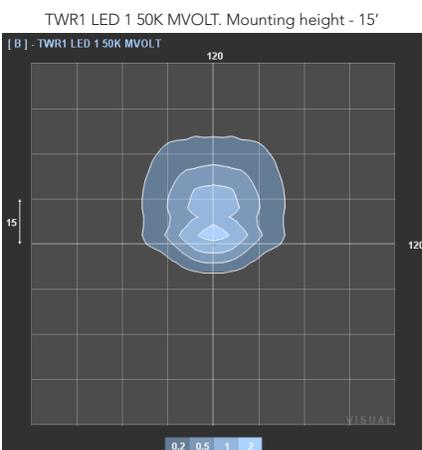
Operating Hours	0	25,000	50,000	60,000	100,000
LM Factor TWR1 LED 1	1.0	.93	.88	.86	.79
LM Factor TWR1 LED 2	1.0	.94	.91	.90	.86
LM Factor TWR1 LED 3	1.0	.94	.92	.91	.87

Photometric Diagrams

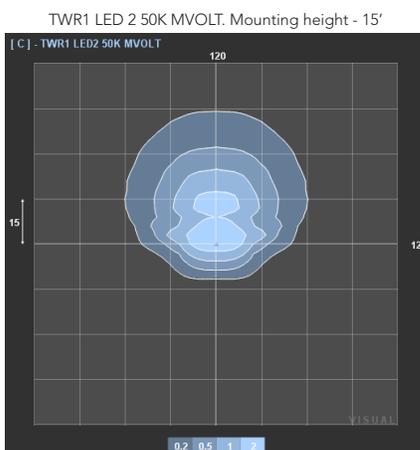
To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting TWR1 LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

LEGEND

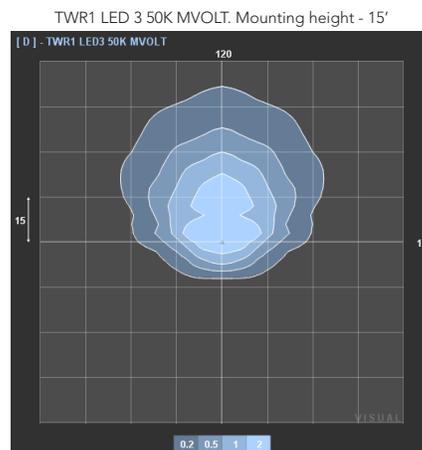
- 0.2 fc
- 0.5 fc
- 1.0 fc
- 2.0 fc



Test No. LTL22697 tested in accordance with IESNA LM-79-08.



Test No. LTL22696 tested in accordance with IESNA LM-79-08.



Test No. LTL22695 tested in accordance with IESNA LM-79-08.

Lighting Facts Labels

LED Lithonia Lighting

lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **2126**

Watts **35**

Lumens per Watt (Efficacy) **62**

Color Accuracy
Color Rendering Index (CRI) **70**

Light Color
Combined Color Temperature (CCT) **5401 (Daylight)**

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: NJSM-BY73PB (12/4/2012)
Model Number: TWR1 LED 1 50K MVolt
Type: Outdoor wall pack

LED Lithonia Lighting

lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **3527**

Watts **41**

Lumens per Watt (Efficacy) **86**

Color Accuracy
Color Rendering Index (CRI) **66**

Light Color
Combined Color Temperature (CCT) **4975 (Daylight)**

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: NJSM-WMMS4L (12/4/2012)
Model Number: TWR1 LED 2 50K MVolt
Type: Outdoor wall pack

LED Lithonia Lighting

lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **4875**

Watts **59**

Lumens per Watt (Efficacy) **83**

Color Accuracy
Color Rendering Index (CRI) **66**

Light Color
Combined Color Temperature (CCT) **4962 (Daylight)**

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: NJSM-LW4PXL (12/4/2012)
Model Number: TWR1 LED 3 50K MVolt
Type: Outdoor wall pack



FEATURES & SPECIFICATIONS

INTENDED USE — Round tapered aluminum roadway pole with upsweep mast arm(s) for up to 40 foot mounting heights including rise of arm.

CONSTRUCTION — Shaft: Shaft is spun tapered from seamless 6063 alloy aluminum tubing and heat-treated to a T6 temper. Circumferential satin-brushed finish. Round in cross-section down length of shaft and cone tapered to the base diameter.

Arm: Body of mounting arm is tapered aluminum alloy 6063-T6 tube with 2-3/8" OD (2" NPS) pipe size at luminaire end. The pole end of the arm is welded to an aluminum alloy 6063-T6 mounting plate.

Mounting: Arm mounting plate bolts to the shaft using stainless steel bolts, nuts and washers. A grommet is provided for the 1-1/4" diameter wiring hole between the pole shaft and the bracket arm.

Anchor base: Cast from A356 aluminum alloy and heat treated to T6 temper. Base plate and shaft are circumferentially welded top and bottom.

Anchor bolts: Fabricated from carbon steel bar with minimum-yield strength of 55,000 psi. Upper portion of anchor bolt is galvanized per ASTM A-153. Each anchor bolt is furnished with two hex nuts and two flat washers.

Grounding: Provision located inside hand hole rim. Grounding hardware is not included (provided by others).

Hand hole: A nominal 3" x 5" or 4" or 6" reinforced flush covered hand hole is centered 18" above the base

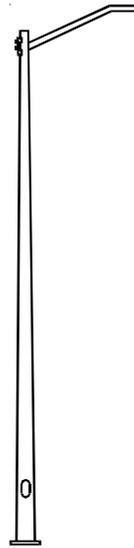
Hardware: Stainless steel

Top cap: Removable top cap provided.

Bolt covers: A356 bolt covers included with anchor base unless otherwise specified.

Finish: Must specify finish.

Catalog Number	
Notes	Type



Anchor Base Poles / Mounting Arm Combo

RTAU

**ROUND TAPERED ALUMINUM POLE
WITH UPSWEEP MAST ARM**
20' to 40' Fixture Mounting Height

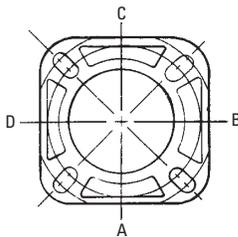
ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: RTAU 20 6G BMA US4 BA VD

RTAU	Nominal fixture mounting height	Mounting	Arm length ³	Options	Finish ⁴
RTAU	20 – 40 feet (See back page.)	BMA Bolt on mast arm	US4 4' arm length US6 6' arm length US8 8' arm length	Shipped installed L/AB Less anchor bolts FBC Full base cover VD Vibration damper TP Tamper proof H1-18Axx Horizontal arm bracket (1 fixture) ^{1,2} FDLxx Festoon outlet less electrical ¹ CPL12xx 1/2" coupling ¹ CPL34xx 3/4" coupling ¹ CPL1xx 1" coupling ¹ NPL12xx 1/2" threaded nipple ¹ NPL34xx 3/4" threaded nipple ¹ NPL1xx 1" threaded nipple ¹ EHHxx Extra handhole ¹	Standard colors DDB Dark bronze DWH White DBL Black DMB Medium bronze DNA Natural aluminum BA Brushed aluminum Classic colors DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue

HANDHOLE ORIENTATION



Arm is located on side B

NOTES:

- Specify location and orientation when ordering option.
For 1st "x": Specify the height in feet above base of pole.
Example: 5ft = 5 and 20ft = 20
For 2nd "x": Specify orientation from handhole (A,B,C,D)
Refer to the Handhole Orientation diagram on this page.
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard.
- Additional arm lengths and types available, some restrictions apply.
- Finish must be specified. Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3).

Class 1 architectural anodized
ABL Black
ADB Dark bronze
ANA Natural
Architectural colors
(powder finish)⁴

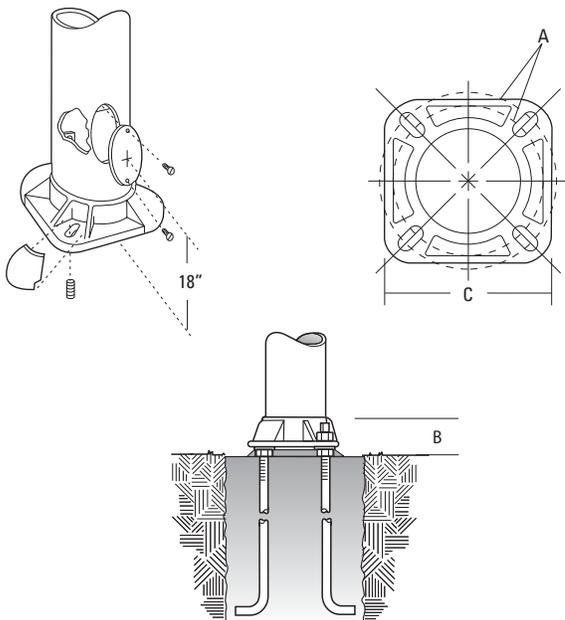
RTAU Round Tapered Aluminum Poles with Mast Arm

TECHNICAL INFORMATION

Catalog Number	Fixture mount ht. (ft) ¹	Mtg. arm length (feet)	Pole shaft diam. (in. x in.)	Wall thickness (in.)	EPA ft ² with 1.3 gust	Max. Weight (lbs.)	Bolt circle (in.)	Bolt size (inches)	App. ship weight (pounds)
					100 mph				
RTAU 20 6E BMA US4	20'	4'	4.5" x 6"	0.156	2	65	9-10	.75 x 30 x 3	90
RTAU 20 6G BMA US6	20'	6'	4.5" x 6"	0.188	2	65	9-10	.75 x 30 x 3	100
RTAU 20 6G BMA US8	20'	8'	4.5" x 6"	0.188	1.74	65	9-10	.75 x 30 x 3	105
RTAU 25 7E BMA US4	25'	4'	4.5" x 7"	0.156	2	65	10-11	1 x 36 x 4	120
RTAU 25 7G BMA US6	25'	6'	4.5" x 7"	0.188	2	65	10-11	1 x 36 x 4	140
RTAU 25 8E BMA US8	25'	8'	4.5" x 8"	0.156	1.74	65	11-12	1 x 36 x 4	135
RTAU 30 8E BMA US4	30'	4'	4.5" x 8"	0.156	2	65	11-12	1 x 36 x 4	150
RTAU 30 8G BMA US6	30'	6'	4.5" x 8"	0.188	2	65	11-12	1 x 36 x 4	170
RTAU 30 8G BMA US8	30'	8'	4.5" x 8"	0.188	1.74	65	11-12	1 x 36 x 4	175
RTAU 35 8G BMA US4	35'	4'	4.5" x 8"	0.188	2	65	11-12	1 x 36 x 4	190
RTAU 35 8J BMA US6	35'	6'	4.5" x 8"	0.250	2	65	11-12	1 x 36 x 4	240
RTAU 35 8J BMA US8	35'	8'	4.5" x 8"	0.250	1.74	65	11-12	1 x 36 x 4	245
RTAU 40 8J BMA US4	40'	4'	4.5" x 8"	0.250	2	65	11-12	1 x 36 x 4	255
RTAU 40 8J BMA US6	40'	6'	4.5" x 8"	0.250	2	65	11-12	1 x 36 x 4	260
RTAU 40 10G BMA US8	40'	8'	6" x 10"	0.188	1.74	65	14-15	1 x 48 x 4	265

NOTES:

- 1 Denotes fixture mounting height, NOT nominal pole height.



POLE DATA

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description
6"	9" – 10"	4.75"	9.75"	ABTEMPLATEPJ50033	AB30-0
7"	10" – 11"	4.75"	10.5"	ABTEMPLATEPJ50034	AB36-0
8"	11" – 12"	4.25"	11.5"	ABTEMPLATEPJ50035	AB36-0
10"	14" – 15"	5.25"	14"	ABTEMPLATEPJ50481	AB481-0

IMPORTANT:

- These specifications are intended for general purposes only. Lithonia reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

IMPORTANT INSTALLATION NOTES:

- **Do not** erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.



D-Series Size 1 Mast Arm Mount LED Area Luminaire

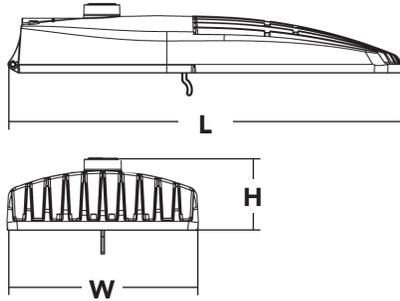


(mast arm not included)

d^{series}

Specifications

EPA:	0.9 ft ² (0.08 m ²)
Length:	27" (68.6 cm)
Width:	13" (33.0 cm)
Height:	5" (12.7 cm)
Weight (max):	26 lbs (11.8 kg)



Catalog
Number

Notes

Type

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

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 – 400W metal halide in area and street lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT MA DDBXD

DSX1 LED																
Series	LEDs	Drive current		Color temperature		Distribution		Voltage	Mounting	Options	Finish <i>(required)</i>					
DSX1 LED	Forward optics	30C	30 LEDs (one engine)	530	530 mA	30K	3000 K (80 CRI min.)	T1S	Type I short	MVOLT ¹	MA Mast arm ready	Shipped installed (blank) No NEMA twist-lock receptacle (decorative cover), wildlife shield, trigger latch, and bridge fitter. DMG 0-10V dimming driver (no controls) PER NEMA twist-lock receptacle only (no controls) DCR Dimmable and controllable via ROAM® (no controls) ³ HS House-side shield ⁴ WTB Utility terminal block DS Dual switching ^{5,6} BUBLVL External bubble level L90 Left rotated optics ⁷ R90 Right rotated optics ⁷	DDBXD	Dark bronze		
				700	700 mA			T2S	Type II short	120 ¹			DBLXD	Black		
				1000	1000 mA (1 A)			T2M	Type II medium	208 ¹			DNAXD	Natural aluminum		
		40C	40 LEDs (two engines)	40K	4000 K (70 CRI min.)	T3S	Type III short	240 ¹	DWHXD	White						
						T3M	Type III medium	277 ¹	DDBTXD	Textured dark bronze						
	60C	60 LEDs (two engines)	50K	5000 K (67 CRI)	T4M	Type IV medium	347 ²	DBLBXD	Textured black							
					TFTM	Forward throw medium	480 ²	DNATXD	Textured natural aluminum							
	Rotated optics	60C	60 LEDs (two engines)						T5VS	Type V very short					DWHGXD	Textured white
									T5S	Type V short						
									T5M	Type V medium						
T5W									Type V wide							

Accessories

Ordered and shipped separately.

SBOR 10 ODP BZ 3V	Pole-mounted motion/ambient sensor, 8-15' mounting height, MVOLT (specify finish)
SBOR 6 ODP BZ 3V	Pole-mounted motion/ambient sensor, 15-30' mounting height, MVOLT (specify finish)
DLL127F 1.5 JU	Photocell - SSL twist-lock, MVOLT ⁸
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ⁸
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ⁸
SCU	Shorting cap ⁸
DSX1HS 30C U	House-side shield for 30 LED unit
DSX1HS 40C U	House-side shield for 40 LED unit
DSX1HS 60C U	House-side shield for 60 LED unit

For more control options, visit [Sensor Switch](#), [DTL](#) and [ROAM](#) online.

Visit Lithonia Lighting's [POLES CENTRAL](#) to see our wide selection of poles, accessories and educational tools.

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60Hz).
- Not available with single board, 530 mA product (30C 530 or 60C 530 DS). Not available with DCR.
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability; requires NEMA twist-lock receptacle. Not available with 347 or 480V. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net.
- Also available as a separate accessory; see Accessories information at left.
- Requires two light engines. Provides 50% dimming capability via two independent drivers, each operating half the luminaire. N/A with PER, DCR, WTB or 530mA with 347v or 480v.
- Requires an additional switched line.
- Available with 60 LEDs (60C option) only.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/-10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	30K (3000K, 80 minimum CRI)					40K (4000K, 70 minimum CRI)					50K (5000K, 67 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30C (30 LEDs)	700 mA	30C 700 --K	68 W	T1S	5,290	1	0	1	78	6,524	2	0	2	96	7,053	2	0	2	104
				T2S	5,540	1	0	1	81	6,833	2	0	2	100	7,387	2	0	2	109
				T2M	5,360	1	0	2	79	6,611	2	0	2	97	7,147	2	0	2	105
				T3S	5,479	1	0	1	81	6,757	1	0	2	99	7,305	2	0	2	107
				T3M	5,452	1	0	2	80	6,724	2	0	2	99	7,269	2	0	2	107
				T4M	5,461	1	0	2	80	6,736	2	0	2	99	7,282	2	0	2	107
				TFTM	5,378	1	0	2	79	6,633	1	0	2	98	7,171	1	0	2	105
				T5VS	5,708	2	0	0	84	7,040	3	0	0	104	7,611	3	0	1	112
				T5S	5,639	2	0	0	83	6,955	2	0	0	102	7,519	3	0	0	111
				T5M	5,710	3	0	1	84	7,042	3	0	1	104	7,613	3	0	2	112
	T5W	5,551	3	0	1	82	6,847	3	0	2	101	7,401	3	0	2	109			
	1000 mA	30C 1000 --K	105 W	T1S	7,229	2	0	2	69	9,168	2	0	2	87	9,874	2	0	2	94
				T2S	7,572	2	0	2	72	9,603	2	0	2	91	10,342	2	0	2	98
				T2M	7,325	2	0	2	70	9,291	2	0	2	88	10,005	2	0	3	95
				T3S	7,488	2	0	2	71	9,496	2	0	2	90	10,227	2	0	2	97
				T3M	7,451	2	0	2	71	9,450	2	0	2	90	10,177	2	0	2	97
				T4M	7,464	2	0	2	71	9,467	2	0	2	90	10,195	2	0	2	97
				TFTM	7,351	1	0	2	70	9,323	2	0	2	89	10,040	2	0	3	96
				T5VS	7,801	3	0	1	74	9,894	3	0	1	94	10,655	3	0	1	101
				T5S	7,803	3	0	2	74	9,774	3	0	1	93	10,526	3	0	1	100
T5M				7,707	3	0	0	73	9,897	3	0	2	94	10,658	4	0	2	102	
T5W	7,586	3	0	2	72	9,621	4	0	2	92	10,363	4	0	2	99				
40C (40 LEDs)	700 mA	40C 700 --K	89 W	T1S	6,876	2	0	2	77	8,639	2	0	2	97	9,345	2	0	2	105
				T2S	7,202	2	0	2	81	9,049	2	0	2	102	9,788	2	0	2	110
				T2M	6,968	2	0	2	78	8,755	2	0	2	98	9,469	2	0	3	106
				T3S	7,122	2	0	2	80	8,948	2	0	2	101	9,679	2	0	2	109
				T3M	7,088	2	0	2	80	8,905	2	0	2	100	9,632	2	0	2	108
				T4M	7,100	2	0	2	80	8,920	2	0	2	100	9,649	2	0	2	108
				TFTM	6,992	1	0	2	79	8,785	2	0	2	99	9,502	2	0	2	107
				T5VS	7,421	3	0	0	83	9,323	3	0	1	105	10,085	3	0	1	113
				T5S	7,331	2	0	0	82	9,210	3	0	1	103	9,962	3	0	1	112
				T5M	7,423	3	0	2	83	9,326	3	0	2	105	10,087	4	0	2	113
	T5W	7,216	3	0	2	81	9,066	4	0	2	102	9,807	4	0	2	110			
	1000 mA	40C 1000 --K	138 W	T1S	9,521	2	0	2	69	11,970	2	0	2	87	12,871	3	3	0	93
				T2S	9,972	2	0	2	72	12,558	3	0	3	91	13,481	3	0	3	98
				T2M	9,648	2	0	3	70	12,149	3	0	3	88	13,043	3	0	3	95
				T3S	9,862	2	0	2	71	12,418	2	0	2	90	13,331	2	0	2	97
				T3M	9,814	2	0	2	71	12,358	3	0	3	90	13,267	3	0	3	96
				T4M	9,831	2	0	2	71	12,379	2	0	3	90	13,290	2	0	3	96
				TFTM	9,681	2	0	2	70	12,191	2	0	3	88	13,087	2	0	3	95
				T5VS	10,275	3	0	1	74	12,937	3	0	1	94	13,890	4	0	1	101
				T5S	10,150	3	0	1	74	12,782	3	0	1	93	13,721	3	0	1	99
T5M				10,278	4	0	2	74	12,942	4	0	2	94	13,894	4	0	2	101	
T5W	9,991	4	0	2	72	12,582	4	0	2	91	13,507	4	0	2	98				
60C (60 LEDs)	700 mA	60C 700 --K	131 W	T1S	10,226	2	0	2	78	12,871	3	0	3	98	13,929	3	0	3	106
				T2S	10,711	2	0	2	82	13,481	3	0	3	103	14,589	3	0	3	111
				T2M	10,363	2	0	3	79	13,043	3	0	3	100	14,115	3	0	3	108
				T3S	10,592	2	0	2	81	13,331	2	0	2	102	14,427	3	0	3	110
				T3M	10,541	2	0	2	80	13,267	3	0	3	101	14,357	3	0	3	110
				T4M	10,559	2	0	2	81	13,290	2	0	3	101	14,382	3	0	3	110
				TFTM	10,398	2	0	3	79	13,087	2	0	3	100	14,163	2	0	3	108
				T5VS	11,036	3	0	1	84	13,890	4	0	4	106	15,032	4	0	1	115
				T5S	10,902	3	0	1	83	13,721	3	0	1	105	14,849	4	0	1	113
				T5M	11,039	4	0	2	84	13,894	4	0	2	106	15,036	4	0	2	115
	T5W	10,732	4	0	2	82	13,507	4	0	2	103	14,617	4	0	2	112			
	1000 mA	60C 1000 --K	209 W	T1S	14,017	3	0	3	67	17,632	3	0	3	84	19,007	3	0	3	91
				T2S	14,681	3	0	3	70	18,467	3	0	3	88	19,908	3	0	3	95
				T2M	14,204	3	0	3	68	17,867	3	0	3	85	19,260	3	0	3	92
				T3S	14,518	3	0	3	69	18,262	3	0	3	87	19,687	3	0	3	94
				T3M	14,448	3	0	3	69	18,173	3	0	4	87	19,591	3	0	4	94
				T4M	14,473	3	0	3	69	18,205	3	0	3	87	19,625	3	0	4	94
				TFTM	14,253	2	0	3	68	17,928	3	0	4	86	19,326	3	0	4	92
				T5VS	15,127	4	0	1	72	19,028	4	0	1	91	20,512	4	0	1	98
				T5S	14,943	4	0	1	71	18,797	4	0	1	90	20,263	4	0	1	97
T5M				15,131	4	0	2	72	19,033	4	0	2	91	20,517	5	0	3	98	
T5W	14,710	4	0	2	70	18,503	5	0	3	89	19,946	5	0	3	95				



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSX1 LED 60C 1000			
	1.0	0.95	0.93	0.88
	DSX1 LED 60C 700			
	1.0	0.99	0.98	0.96

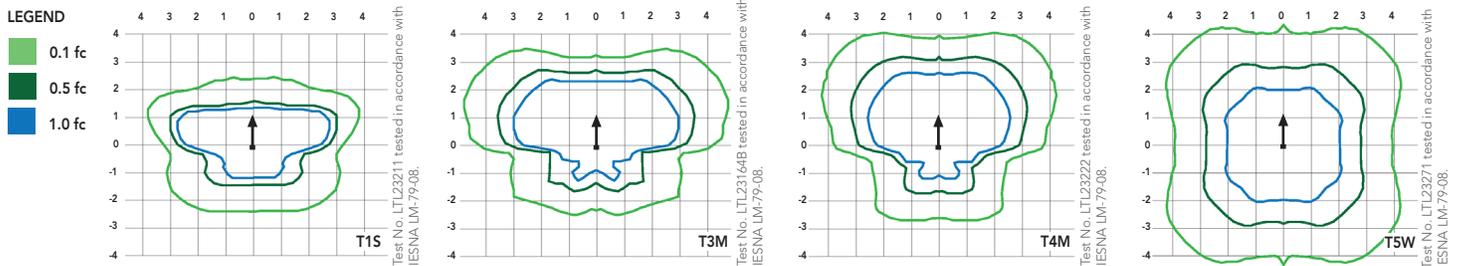
Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)						
			120	208	240	277	347	480	
30	530	52	0.52	0.30	0.26	0.23	--	--	
	700	68	0.68	0.39	0.34	0.30	0.24	0.17	
	1000	105	1.03	0.59	0.51	0.45	0.36	0.26	
40	530	68	0.67	0.39	0.34	0.29	0.23	0.17	
	700	89	0.89	0.51	0.44	0.38	0.31	0.22	
	1000	138	1.35	0.78	0.67	0.58	0.47	0.34	
60	530	99	0.97	0.56	0.48	0.42	0.34	0.24	
	700	131	1.29	0.74	0.65	0.56	0.45	0.32	
	1000	209	1.98	1.14	0.99	0.86	0.69	0.50	

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isfootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for area and street lighting applications.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Low EPA (0.9 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior lighting distribution, uniformity, and pole spacing. Light engines are available in 3000K (>80 CRI), 4000K (>70 CRI) or 5000K (67 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Four-bolt mast arm mount provides easy, secure installation for nominal 1-1/4" to 2" diameter arms (1-5/8" to 2-3/8" O.D.) and enables the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. Housing includes cast-in wildlife shield. Die-cast trigger latch on door provides tool-less entry for easy and secure opening with one hand; top-side leveling crosshairs and internal bubble level assist with installation.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated. Rated for -40°C minimum ambient. U.S. D663,462 S. International patents pending.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

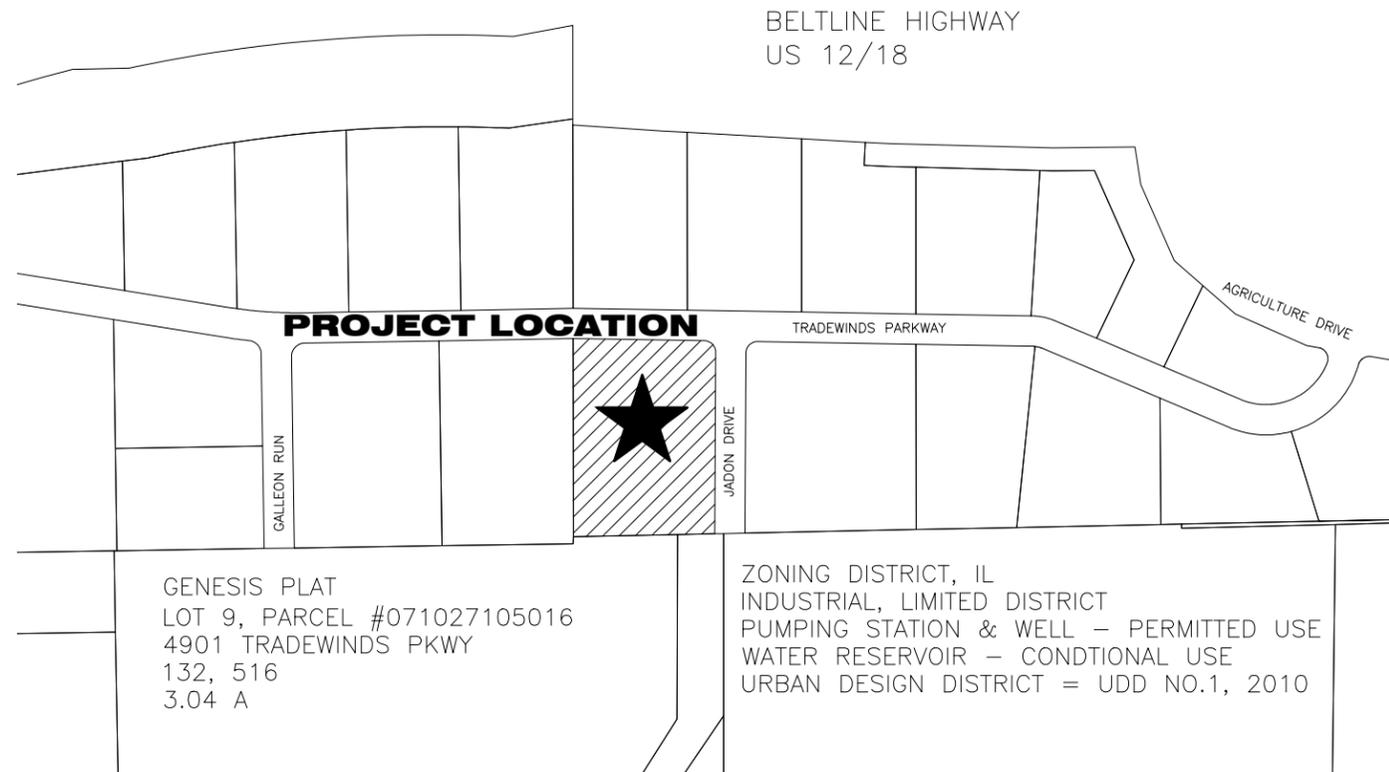
Five year limited warranty. Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.



LAND USE / ZONING APPROVAL DRAWINGS FOR UNIT WELL 31 & WATER TREATMENT PLANT MADISON WATER UTILITY CITY OF MADISON, WISCONSIN

P:\KOW\MADWU\129083\5-FINAL-DWG\51-CONST-DWGS-CAD\10-CIVIL\TITLE SHEET UDC.DWG
 USER: JOSH BOHNERT
 XREFS: \\seh\projects\KOW\Madw\129083\5-final-dwg\51-const-dwg\CAD\10-Civil\Z-new_border



LIST OF SHEETS

- SHEET 1.....G1 – TITLE SHEET
- SHEET 2.....URBAN DESIGN DISTRICT NO. 1 OVERVIEW
- SHEET 3.....URBAN DESIGN DISTRICT NO. 1
- SHEET 4.....MARSH ROAD NEIGHBORHOOD DEVELOPMENT PLAN
- SHEET 5.....PROJECT LOCATION IN EXISTING WATER SYSTEM
- SHEET 6.....PROJECT SITE
- SHEET 7.....SURFACE WATER DATA VIEWER MAP
- SHEET 8-10.....GENESIS PLAT MAP
- SHEET 11.....G2 – UNIT WELL 31 SITE PLAN
- SHEET 12.....C2 – UNIT WELL 31 GRADING PLAN
- SHEET 13.....C1 – UNIT WELL 31 UTILITY PLAN
- SHEET 14.....SL – SITE LIGHTING PHOTOMETRIC PLAN
- SHEET 15.....L1 – LANDSCAPE PLAN
- SHEET 16.....L2 – LANDSCAPE DETAILS
- SHEET 17.....A01 – FLOOR PLANS
- SHEET 18.....A02 – BUILDING ELEVATIONS
- SHEET 19.....A03 – BUILDING ELEVATIONS
- SHEET 20.....A04 – TANK ELEVATIONS, SECTIONS & DETAILS
- SHEET 21.....A05 – BUILDING PERSPECTIVE
- SHEET 22.....A06 – BUILDING PERSPECTIVE

10 N BRIDGE STREET
 CHICAGO, IL 60607
 PHONE: 773.776.8200
 FAX: 773.776.8200
 WEBSITE: 800.472.5681
 www.sehinc.com



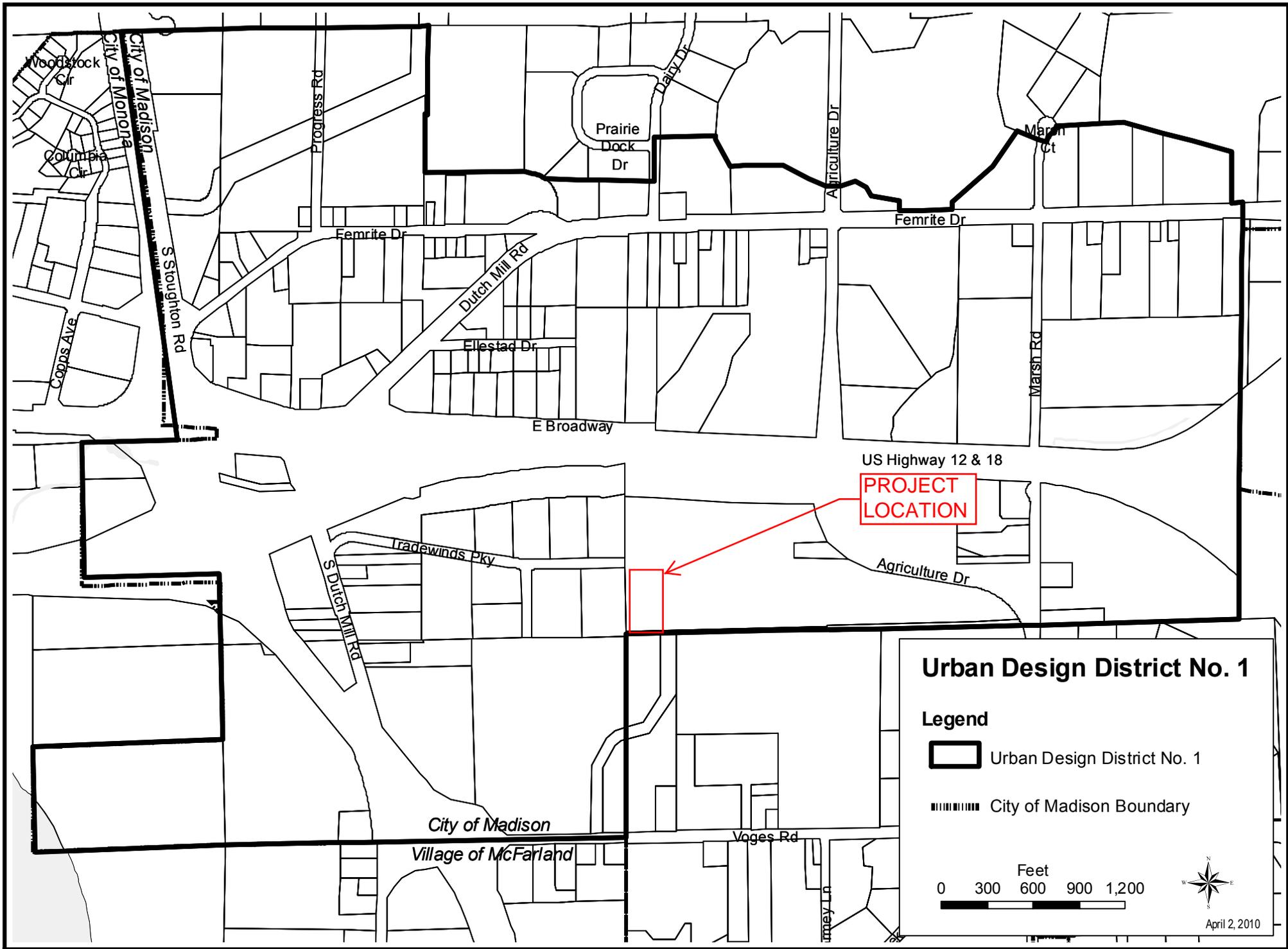
2015 WELL 31 WATER TREATMENT PLANT
 & GROUND STORAGE RESERVOIR
 MADISON, WISCONSIN

MARK	DATE	REVISIONS	DESCRIPTION

MADWU 129083
 PROJECT NO. 03-02-15
 ISSUED BY RANDY SANFORD
 DESIGNED BY JOSHUA BOHNERT
 DRAWN BY Short Elliott Hendrickson, Inc. © (SEH)
 © 2015 Short Elliott Hendrickson, Inc.

SHEET TITLE
 TITLE SHEET

SHEET
 G1

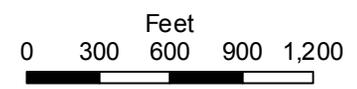


**PROJECT
LOCATION**

Urban Design District No. 1

Legend

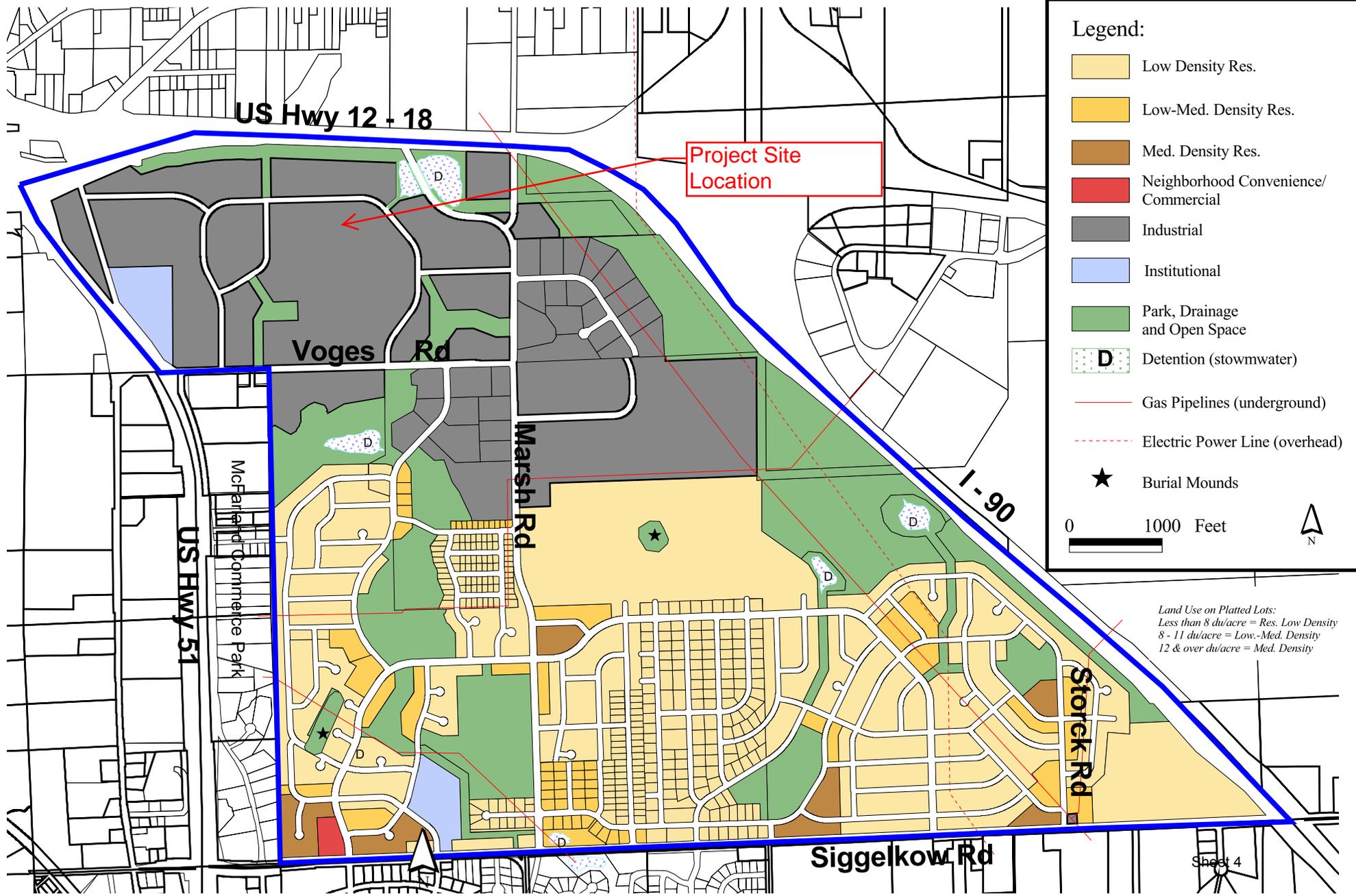
-  Urban Design District No. 1
-  City of Madison Boundary



April 2, 2010

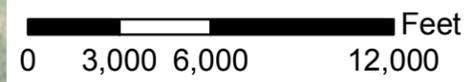
Marsh Road Neighborhood Development Plan

As Adopted October 1999 and implemented through subdivision and zoning approvals.

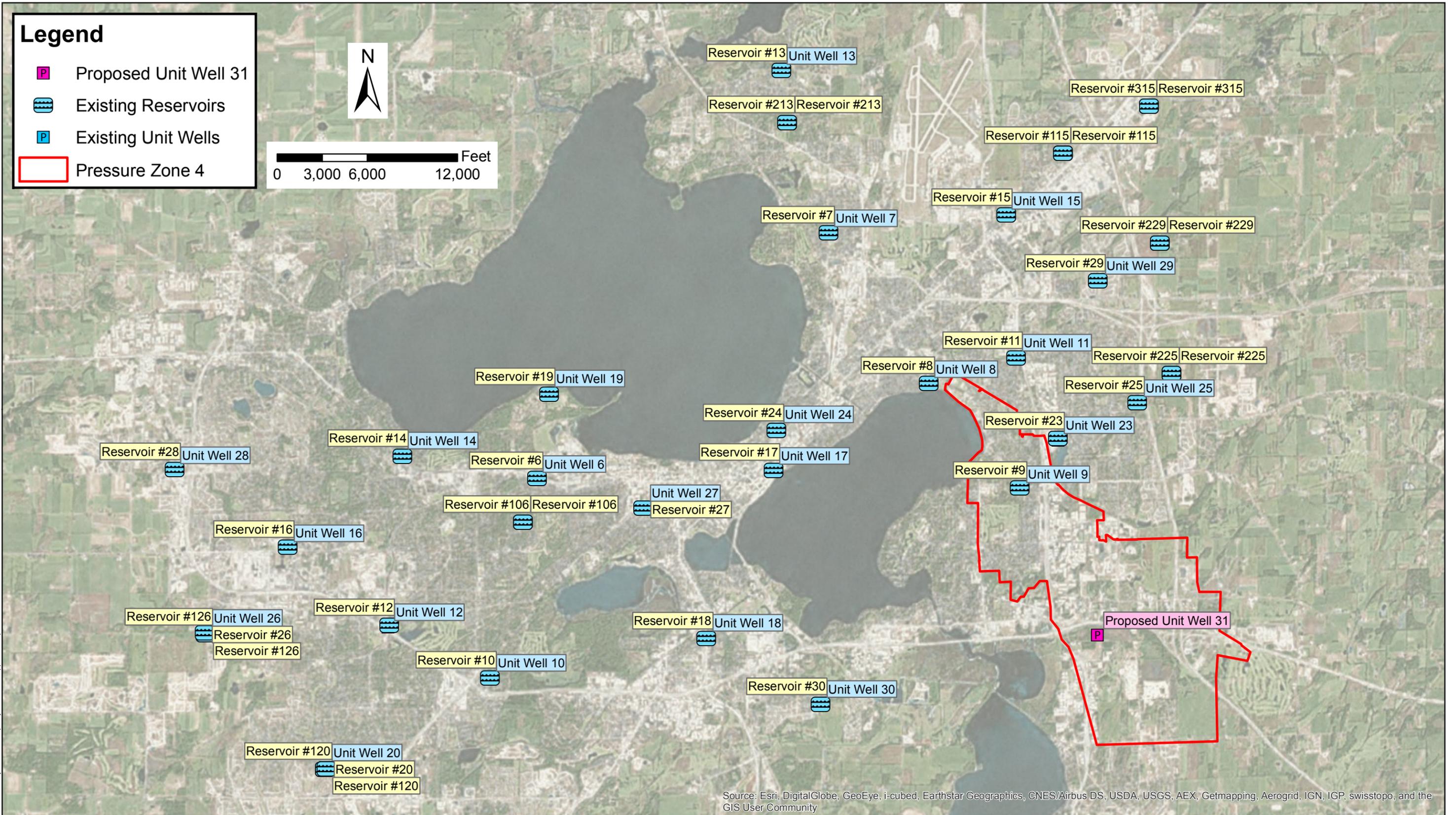


Legend

- Proposed Unit Well 31
- Existing Reservoirs
- Existing Unit Wells
- Pressure Zone 4



Path: C:\Users\johndent\Desktop\Projects\Madison\Appendix B-1 pressure zone 4.mxd



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



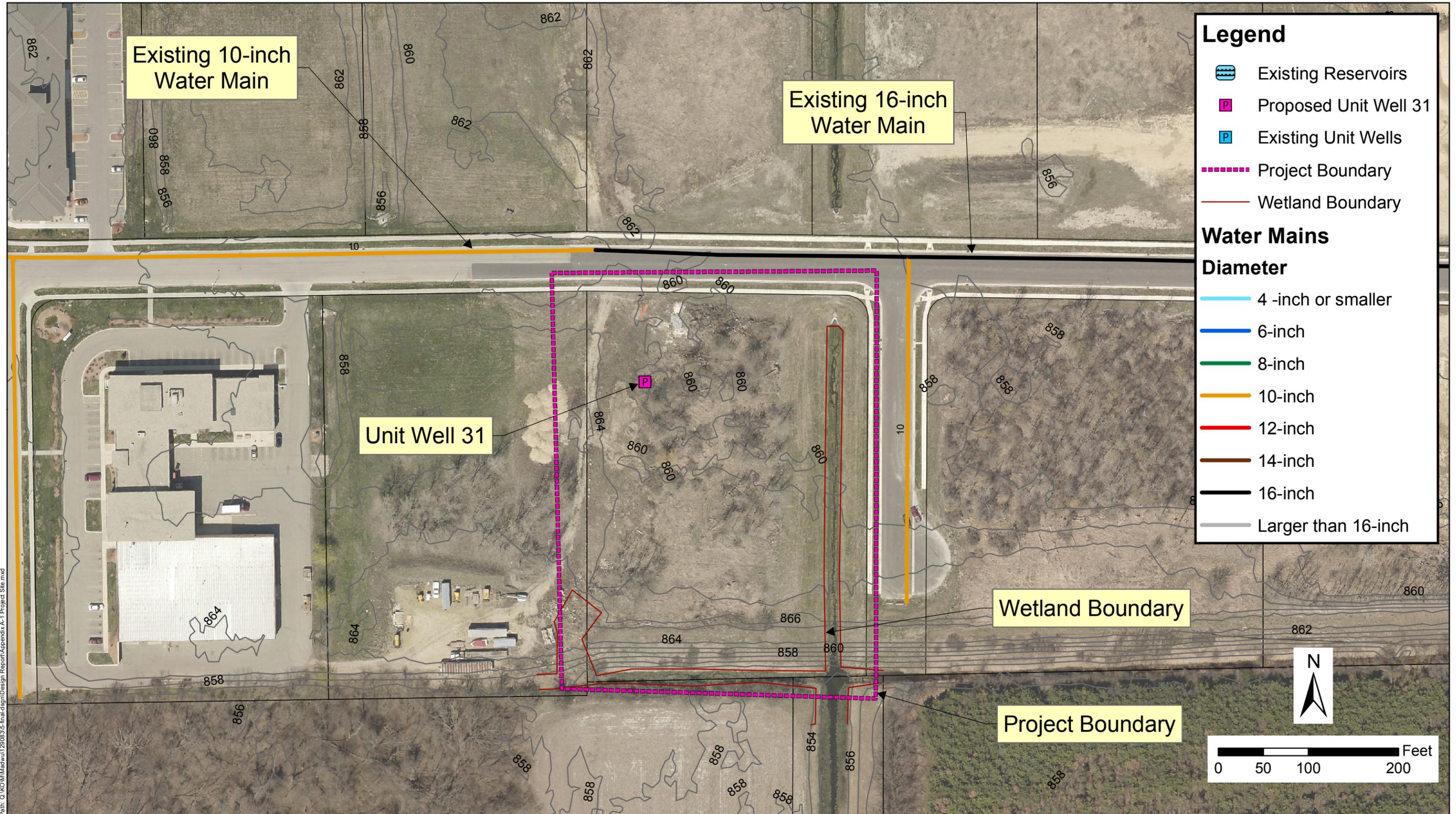
10 North Bridge Street
Chippewa Falls, WI 54729
PHONE: (715) 720-6200
FAX: (888) 908-8166
TF: (800) 3472-5881
www.sehinc.com

Project: MADWU 129083
Print Date: 10/21/2014

Map by: JJB
Projection: Dane County (US feet)
Source: Madison Water Utility

Project Location in Existing Water System

Unit Well 31
Madison, Wisconsin



Existing 10-inch Water Main

Existing 16-inch Water Main

Unit Well 31

Wetland Boundary

Project Boundary

Legend

- Existing Reservoirs
- Proposed Unit Well 31
- Existing Unit Wells
- Project Boundary
- Wetland Boundary

Water Mains

Diameter

- 4 -inch or smaller
- 6-inch
- 8-inch
- 10-inch
- 12-inch
- 14-inch
- 16-inch
- Larger than 16-inch



Path: C:\KOD\Mapwork\129083\5-final-dsgn\Design Report\Appendix A-1 Project Site.mxd

10 North Bridge Street
Chippewa Falls, WI 54729
PHONE: (715) 720-6200
FAX: (888) 906-8166
TF: (800) 3472-5881
www.sehinc.com

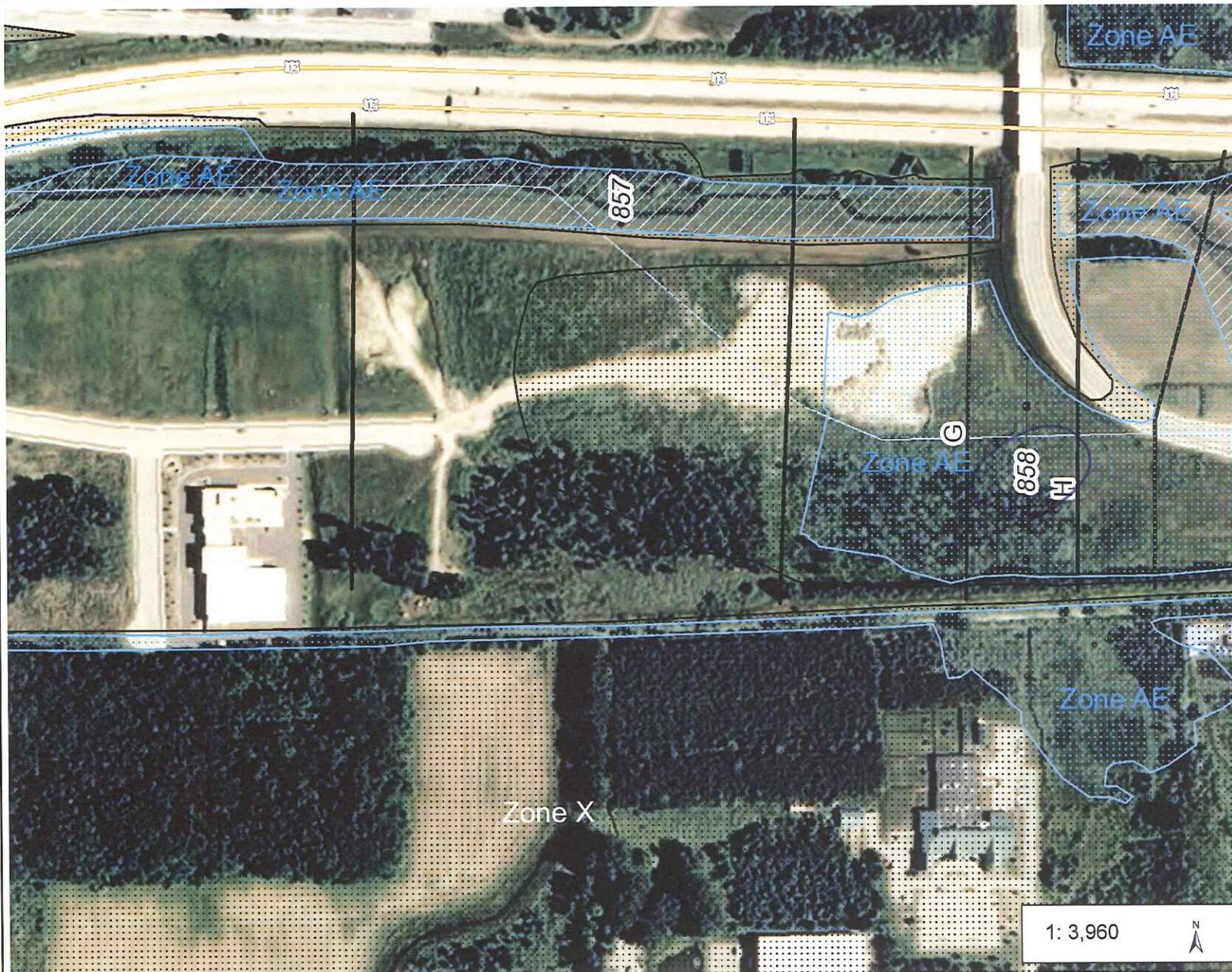
Project: MADWU 129083
Print Date: 11/14/2014

Map by: JJB
Projection: Dane County (US feet)
Source: Madison Water Utility

Project Site
Unit Well 31
Madison, Wisconsin



Surface Water Data Viewer Map



Legend

- 1% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Cross Sections
- Floodway
- Base Flood Elevations
- FIRM Panel Index
- Rivers and Streams
- Open Water
- 2008 Air Photos (NAIP)

Flood Plain = 858'

1: 3,960



0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM
© Latitude Geographics Group Ltd.

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Notes

Proposed Well No. 31

Appendix A-2

Sheet 7

FINAL PLAT OF GENESIS

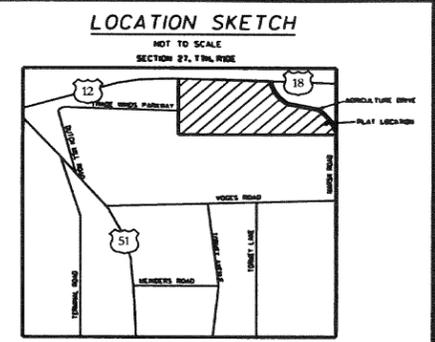
Doc# 4770373

BEING ALL OF OUTLOT 1, OUTLOT 2, AND OUTLOT 3, OF CERTIFIED SURVEY MAP NO. 12423, VOLUME 77, PAGE 216, LOCATED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 27, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

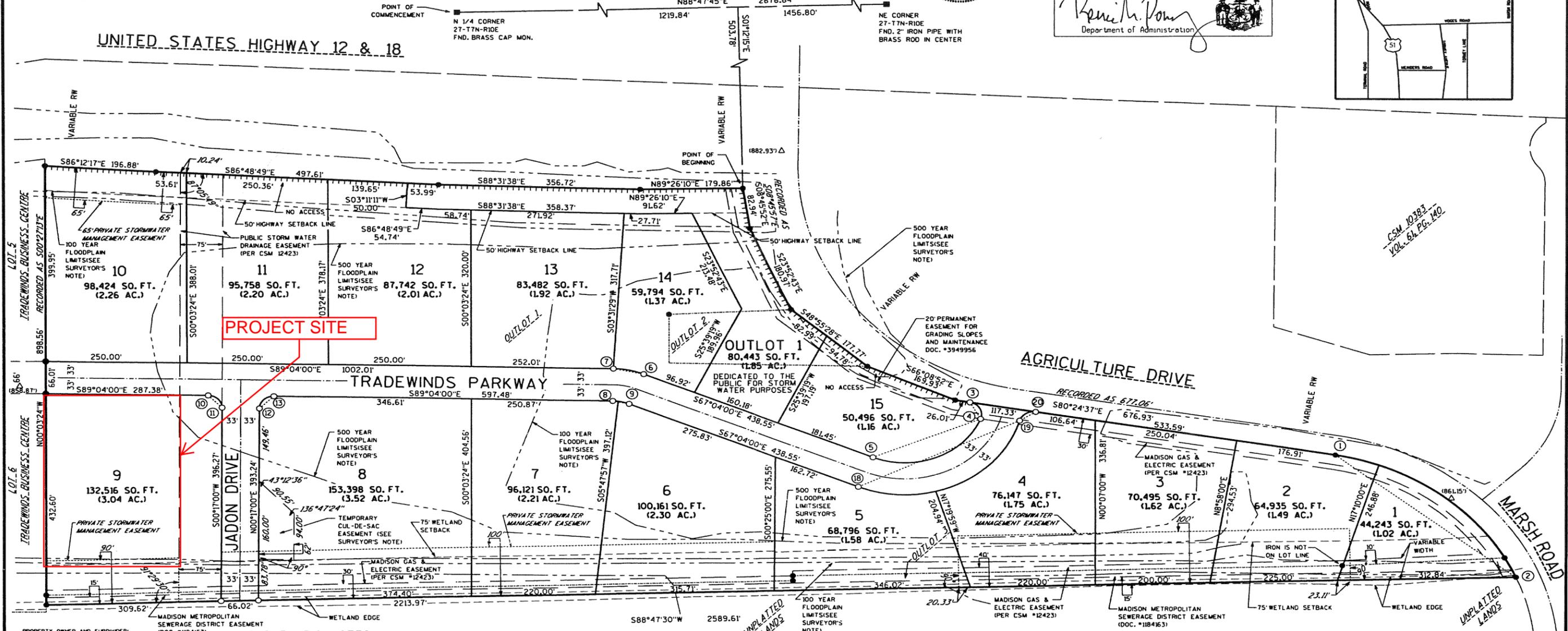
5-9-2011



There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis Stats, as provided by s. 236.12, Wis. Stats.
Certified *June 9th 2011*
Benjamin Pomy
Department of Administration



UNITED STATES HIGHWAY 12 & 18



PROJECT SITE

PROPERTY OWNER AND SUBDIVIDER:
GENESIS COMMONS LLC,
ALEXANDER LL MEMBER
HELEN LL MEMBER
411 ORCHARD DRIVE
MADISON, WI 53711
(608) 258-8440

LAND SURVEYOR:
JASON L. CANCE, RLS # 2688
421 FRENETTE DRIVE
CHIPPewa FALLS, WI 54729
(715) 720-6200

ENGINEER:
RAY POLKINGHORN, PE # 30177
6808 ODANA ROAD
SUITE 200
MADISON, WI 53719
(608) 826-6489



SURVEYOR'S NOTES

ALL LOTS WITHIN THIS PLAT ARE SUBJECT TO PUBLIC EASEMENTS FOR DRAINAGE PURPOSES WHICH SHALL BE A MINIMUM OF 6 FEET IN WIDTH MEASURED FROM THE PROPERTY LINE TO THE INTERIOR OF EACH LOT EXCEPT THE EASEMENTS SHALL BE 12 FEET IN WIDTH ON THE PERIMETER OF THE PLAT FOR PURPOSES OF TWO (2) OR MORE LOTS COMBINED FOR A SINGLE DEVELOPMENT SITE, OR WHERE TWO (2) OR MORE LOTS HAVE A SHARED DRIVEWAY AGREEMENT THE PUBLIC EASEMENT FOR DRAINAGE PURPOSES SHALL BE A MINIMUM OF SIX (6) FEET IN WIDTH AND SHALL BE MEASURED ONLY FROM THE EXTERIOR PROPERTY LINES OF THE COMBINED LOTS THAT CREATE A SINGLE DEVELOPMENT SITE, OR HAVE A SHARED DRIVEWAY AGREEMENT, EXCEPT THAT THE EASEMENT SHALL BE 12 FEET IN WIDTH ALONG THE PERIMETER OF THE PLAT. EASEMENTS SHALL NOT BE REQUIRED ON PROPERTY LINES SHARED WITH GREENWAYS OR PUBLIC STREETS. NO BUILDINGS, DRIVEWAYS, OR RETAINING WALLS SHALL BE PLACED IN ANY EASEMENT FOR DRAINAGE PURPOSES. FENCES MAY BE PLACED IN THE EASEMENT ONLY IF THEY DO NOT IMPED THE ANTICIPATED FLOW OF WATER.

IN THE EVENT OF A CITY OF MADISON PLAN COMMISSION AND/OR COMMON COUNCIL APPROVED REVISION OF A PREVIOUSLY SUBDIVIDED PROPERTY, THE UNDERLYING PUBLIC EASEMENTS FOR DRAINAGE PURPOSES ARE RELEASED AND REPLACED BY THOSE REQUIRED AND CREATED BY THE CURRENT APPROVED SUBDIVISION.

THE INTRA-BLOCK DRAINAGE EASEMENTS SHALL BE GRADED WITH THE CONSTRUCTION OF EACH PRINCIPAL STRUCTURE IN ACCORDANCE WITH THE APPROVED STORM WATER DRAINAGE PLAN ON FILE WITH THE CITY ENGINEER AND THE ZONING ADMINISTRATOR, AS AMENDED IN ACCORDANCE WITH THE MADISON GENERAL ORDINANCES.

NO ACCESS SHALL BE GRANTED ALONG THE WESTERLY RIGHT OF WAY OF AGRICULTURE DRIVE FOR OUTLOT 1 & LOT 15.

NO BUILDING SHALL BE CONSTRUCTED WITH A LOW WINDOW OR DOOR OPENING BELOW ELEVATION 861.00 FEET

BUILDINGS SHALL NOT BE CONSTRUCTED NOR, ELEVATIONS ALTERED WITHIN ALL PRIVATE STORMWATER MANAGEMENT EASEMENTS.

ALL THE LOTS WITHIN THIS SUBDIVISION ARE SUBJECT TO IMPACT FEES THAT ARE DUE AND PAYABLE AT THE ISSUANCE OF BUILDING PERMIT(S).

THIS SUBDIVISION IS LOCATED IN URBAN DESIGN DISTRICT 1 WHICH WILL REQUIRE URBAN DESIGN COMMISSION APPROVAL PRIOR TO THE ISSUANCE OF BUILDING PERMITS FOR INDIVIDUAL LOTS.

FLOOD PLAIN LIMITS WERE DETERMINED FROM FIRM MAP - PANEL 0441G. EARTHWORK IS ACTIVELY BEING PERFORMED AT THIS SITE, THEREFORE THIS MAP MAYBE UNRELIABLE FOR FLOODPLAIN DETERMINATIONS IN THE FUTURE.

THE TEMPORARY CUL-DE-SAC EASEMENT LOCATED ALONG JADON DRIVE IS FOR THE CONSTRUCTION AND MAINTENANCE OF A CUL-DE-SAC. SAID EASEMENT WILL TERMINATE AT THE TIME OF JADON DRIVE'S EXTENSION TO THE SOUTH.

TEMPORARY LIMITED EASEMENTS OVER ALL LOTS WITHIN THIS PLAT SHALL BE GRANTED TO THE CITY OF MADISON FOR THE CONSTRUCTION OF THE PUBLIC IMPROVEMENTS. SAID EASEMENTS SHALL EXPIRE UPON THE COMPLETION OF THE STREETS AND INFRASTRUCTURE IMPROVEMENTS IN AND ADJACENT TO THE PLAT AS CONSTRUCTED BY THE CITY OF MADISON FOR PROJECT NO. 5382111.

THE SIGNED MOA BETWEEN THE CITY OF MADISON AND THE WISCONSIN DEPARTMENT OF TRANSPORTATION FOR IMPROVEMENTS TO THE INTERSECTION OF USH 51 AND VOEGES ROAD / TERMINAL DRIVE, DATED APRIL 27, 2011; AND THE CITY OF MADISON RESOLUTION NUMBER RES-11-00317, LEGISLATIVE FILE ID 21958 SHALL BE RECORDED ALONG WITH THE GENESIS SUBDIVISION PLAT.

SURVEYOR'S NOTES CONT.

PORTIONS OF THE LANDS WITHIN THIS PLAT ARE LOCATED WITHIN THE SPECIAL FLOOD HAZARD AREA, AS SHOWN ON THE FLOOD BOUNDARY AND FLOODPLAIN MAPS AND THE FLOOD INSURANCE RATE MAPS, BOTH ADOPTED BY THE CITY OF MADISON AS THE OFFICIAL FLOODPLAIN ZONING MAP, DATED AS BEING EFFECTIVE ON JANUARY 2, 2009. PRIOR TO THE ISSUANCE OF ANY BUILDING PERMITS FOR NEW CONSTRUCTION OR DEVELOPMENT, ALL APPLICABLE FLOODPLAIN-RELATED REGULATIONS FOR THE DEVELOPMENT MUST BE SATISFIED.

HIGHWAY SETBACK RESTRICTION

NO IMPROVEMENTS OR STRUCTURES ARE ALLOWED BETWEEN THE RIGHT-OF-WAY LINE AND THE HIGHWAY SETBACK LINE. IMPROVEMENTS AND STRUCTURES INCLUDED BUT ARE NOT LIMITED TO, SIGNS, PARKING AREAS, DRIVEWAYS, WELLS, SEPTIC SYSTEMS, DRAINAGE FACILITIES, BUILDINGS, AND RETAINING WALLS. IT IS EXPRESSLY INTENDED THAT THIS RESTRICTION IS FOR THE BENEFIT OF THE PUBLIC AS PROVIDED IN SECTION 236.293, WISCONSIN STATUTES, AND SHALL BE ENFORCEABLE BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION OR ITS ASSIGNS. ANY ACCESS ALLOWED BY SPECIAL EXCEPTION SHALL BE CONFIRMED AND GRANTED THROUGH THE DRIVEWAY PERMITTING PROCESS AND ALL PERMITS ARE REVOCABLE.

ACCESS ON THE EXISTING BELTLINE IS CONTROLLED BY C.A. PROJECT CA04-2 (1)

ACCESS IS RESTRICTED BY WISDOT PROJECT F04-2 (31)

ACCESS RESTRICTION

ALL LOTS AND BLOCKS ARE HEREBY RESTRICTED SO THAT NO OWNER, POSSESSOR, USER, LICENSEE, OR OTHER PERSON MAY HAVE ANY RIGHT OF DIRECT VEHICULAR INGRESS FROM OR EGRESS TO ANY HIGHWAY LYING WITHIN THE RIGHT OF WAY OF U.S.H. 12 / U.S.H. 18; IT IS EXPRESSLY INTENDED THAT THIS RESTRICTION CONSTITUTES A RESTRICTION FOR THE BENEFIT OF THE PUBLIC AS PROVIDED IN S. 236.293, STATS., AND SHALL BE ENFORCEABLE BY THE DEPARTMENT OR ITS ASSIGNS. ANY ACCESS SHALL BE ALLOWED ONLY BY SPECIAL EXCEPTION. ANY ACCESS ALLOWED BY SPECIAL EXCEPTION SHALL BE CONFIRMED AND GRANTED THROUGH THE DRIVEWAY PERMITTING PROCESS AND ALL PERMITS ARE REVOCABLE.

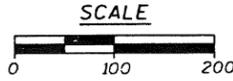
ACCESS ON THE EXISTING BELTLINE IS CONTROLLED BY C.A. PROJECT CA04-2 (1)

NOISE RESTRICTION

THE LOTS OF THIS LAND DIVISION MAY EXPERIENCE NOISE AT LEVELS EXCEEDING THE LEVELS IN S. TRANS 405.04, TABLE 1. THESE LEVELS ARE BASED ON FEDERAL STANDARDS. THE DEPARTMENT OF TRANSPORTATION IS NOT RESPONSIBLE FOR ABATING NOISE FROM EXISTING STATE TRUNK HIGHWAYS OR CONNECTING HIGHWAYS. IN THE ABSENCE OF ANY INCREASE BY THE DEPARTMENT TO THE HIGHWAYS THROUGH-LANE CAPACITY.

LEGEND

- ...GOVERNMENT CORNER (AS NOTED)
 - ...SET 1 1/4 " X 18" IRON REBAR, WEIGHING 4.13 LBS/LIN. FT.
 - ...FOUND 1" O.D. IRON PIPE
 - △ ...BM (ELEV. NOTED)
- ALL OTHER LOT, AND OUTLOT CORNERS, ARE SET 3/4" X 18" IRON REBAR WEIGHING 1.502 LBS/LIN. FT.
- MEASUREMENTS IN ITALICS ARE FOR PRIVATE STORMWATER EASEMENT LOCATIONS AND LOCATION OF TEMPORARY CUL-DE-SAC



DATE: 2-17-09
REVISION 1: 2-18-09
REVISION 2: 5-9-2011
SHEET 1 OF 3

FINAL PLAT OF GENESIS

BEING ALL OF OUTLOT 1, OUTLOT 2, AND OUTLOT 3, OF CERTIFIED SURVEY MAP NO. 12423, VOLUME 77, PAGE 216, LOCATED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 27, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

SURVEYOR'S CERTIFICATE

I, JASON L. CANCE, REGISTERED WISCONSIN LAND SURVEYOR, HEREBY CERTIFY: THAT I HAVE SURVEYED, DIVIDED, AND MAPPED THE PLAT OF GENESIS, BEING ALL OF OUTLOT 1, OUTLOT 2, OUTLOT 3 OF CERTIFIED SURVEY MAP NO. 12423, VOLUME 77, PAGE 216, LOCATED IN THE NORTHEAST 1/4 OF THE NORTHEAST 1/4, AND THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 27, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, COUNTY OF DANE, WISCONSIN.

THAT I HAVE MADE SUCH A SURVEY AT THE DIRECTION OF ALEXANDER LI, MEMBER, GENESIS COMMONS, LLC, OWNER, OF SAID LANDS CONTAINING 34.67 ACRES AND BEING DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTH 1/4 CORNER OF SAID SECTION 27; THENCE N88°47'45"E 1219.84 FEET ALONG THE NORTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 27; THENCE S01°12'15"E 503.78 FEET TO THE INTERSECTION OF THE SOUTH RIGHT OF WAY LINE OF USH 12/18 AND THE WESTERLY RIGHT OF WAY LINE OF AGRICULTURE DRIVE BEING THE POINT OF BEGINNING; THENCE S08°45'52"E 82.94 FEET ALONG SAID WESTERLY RIGHT OF WAY; THENCE S23°52'43"E 180.97 FEET ALONG SAID WESTERLY RIGHT OF WAY; THENCE S48°55'28"E 177.77 FEET ALONG SAID WESTERLY RIGHT OF WAY; THENCE S66°08'52"E 169.93 FEET ALONG SAID WESTERLY RIGHT OF WAY; THENCE S80°24'37"E 676.93 FEET ALONG SAID WESTERLY RIGHT OF WAY; THENCE CONTINUING ALONG SAID WESTERLY RIGHT OF WAY BEING THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 421.39 FEET AND A CHORD BEARING S51°45'34"E 404.09 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE NORTHEAST 1/4 OF SAID SECTION 27; THENCE S88°47'30"W 2589.61 FEET ALONG SAID SOUTH LINE TO THE WEST LINE OF THE NORTHEAST 1/4 OF SAID SECTION 27; THENCE N00°03'24"W 898.56 FEET ALONG SAID WEST LINE TO THE SOUTHERLY RIGHT OF WAY OF USH 12/18; THENCE S86°12'17"E ALONG SAID SOUTHERLY RIGHT OF WAY A DISTANCE OF 196.88 FEET; THENCE CONTINUING ALONG SAID SOUTHERLY RIGHT OF WAY S86°48'49"E 497.61 FEET; THENCE CONTINUING ALONG SAID SOUTHERLY RIGHT OF WAY S88°31'38"E 356.72 FEET; THENCE CONTINUING ALONG SAID SOUTHERLY RIGHT OF WAY N89°26'10"E 179.86 FEET TO THE WESTERLY RIGHT OF WAY OF AGRICULTURE DRIVE ALSO BEING THE POINT OF BEGINNING OF THIS DESCRIPTION.

THAT SUCH PLAT IS A CORRECT REPRESENTATION OF ALL OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND THE SUBDIVISION THEREOF MADE AND THAT I HAVE FULLY COMPLIED WITH THE PROVISIONS OF CHAPTER 236 OF THE WISCONSIN STATE STATUTES, THE SUBDIVISION REGULATIONS OF THE COUNTY OF DANE, AND THE SUBDIVISION REGULATIONS OF THE CITY OF MADISON, IN SURVEYING, DIVIDING, AND MAPPING THE SAME.

Jason L. Cance, R.L.S. 2688



DATED THIS 9TH DAY OF MAY, 2011

OWNER'S CERTIFICATE OF DEDICATION

GENESIS COMMONS, LLC, A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN, AS OWNER DOES HEREBY CERTIFY THAT SAID CORPORATION CAUSED THE LAND DESCRIBED ON THIS PLAT TO BE SURVEYED, DIVIDED, MAPPED, AND DEDICATED AS REPRESENTED ON THIS PLAT.

GENESIS COMMONS, LLC, DOES FURTHER CERTIFY THAT THIS PLAT IS REQUIRED BY S236.10 PR S236.12 TO BE SUBMITTED TO THE FOLLOWING FOR APPROVAL OR OBJECTION:

- WISCONSIN DEPARTMENT OF ADMINISTRATION
COMMON COUNCIL OF THE CITY OF MADISON
DANE COUNTY ZONING AND NATURAL RESOURCES COMMITTEE
WISCONSIN DEPARTMENT OF TRANSPORTATION

IN WITNESS WHEREOF, THE SAID GENESIS COMMONS, LLC, HAS CAUSED THESE PRESENTS TO BE SIGNED BY ALEXANDER LI, MEMBER AND COUNTERSIGNED BY HELEN LI, MEMBER AT Madison, WISCONSIN, AND IT CORPORATE SEAL HEREUNTO AFFIXED ON THIS 10th DAY OF June, 2011.

IN THE PRESENCE OF:

Genesis Commons, LLC
CORPORATE NAME
Alexander L. Cance
ALEXANDER LI, MEMBER

COUNTERSIGNED: Helen W. Li
HELEN LI, MEMBER

STATE OF WISCONSIN)
Dane COUNTY)SS

PERSONALLY CAME BEFORE ME THIS 10th DAY OF June, 2011, ALEXANDER LI, MEMBER, AND HELEN LI, MEMBER OF THE ABOVE NAMED CORPORATION, TO ME KNOWN TO BE THE PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT, AND TO ME KNOWN TO BE SUCH MEMBERS OF SAID CORPORATION, AND ACKNOWLEDGED THAT THEY EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICERS AS THE DEED OF SAID CORPORATION, BY ITS AUTHORITY.

Jeffrey J. Ekola
NOTARY PUBLIC, STATE OF WISCONSIN
Jeffrey J. Ekola
(PRINT OR TYPE NAME)

MY COMMISSION EXPIRES August 28, 2011

There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis Stats. as provided by s. 236.12, Wis. Stats.
Certified June 9th, 2011
Kevin M. Downey
Department of Administration



CITY COUNCIL CERTIFICATE

RESOLVED THAT THIS PLAT KNOWN AS GENESIS SUBDIVISION LOCATED IN THE CITY OF MADISON, WAS HEREBY APPROVED BY ENACTMENT NUMBER RES-10-00318, FILE ID NUMBER 17823, ADOPTED ON THE 16TH DAY OF APRIL, 2010, AND THAT SAID ENACTMENT FURTHER PROVIDED FOR THE ACCEPTANCE OF THOSE LANDS DEDICATED AND THE RIGHTS CONVEYED BY SAID PLAT TO THE CITY OF MADISON FOR PUBLIC USE.

DATED THIS 13th DAY OF June, 2011

Maribeth Witzel-Behl
MARIBETH WITZEL-BEHL, CITY CLERK
CITY OF MADISON, DANE COUNTY, WISCONSIN

CITY OF MADISON TREASURER'S CERTIFICATE

I, DAVE GAWENDA, BEING DULY APPOINTED, QUALIFIED, AND ACTING TREASURER OF THE CITY OF MADISON, DO HEREBY CERTIFY THAT IN ACCORDANCE WITH THE RECORDS IN MY OFFICE, THERE ARE NO UNPAID TAXES OR UNPAID SPECIAL ASSESSMENTS AS OF THIS 10th DAY OF June, 2011 ON ANY OF THE LANDS INCLUDED IN THE PLAT OF GENESIS

David Gawenda
DAVID GAWENDA, CITY TREASURER
CITY OF MADISON, DANE COUNTY, WISCONSIN

DANE COUNTY TREASURER'S CERTIFICATE

I, DAVID J. WORZALA, BEING DULY APPOINTED, QUALIFIED, AND ACTING TREASURER OF THE COUNTY OF DANE, DO HEREBY CERTIFY THAT IN ACCORDANCE WITH THE RECORDS IN MY OFFICE, THERE ARE NO UNPAID TAXES OR UNPAID SPECIAL ASSESSMENTS AS OF THIS 10th DAY OF June, 2011 ON ANY OF THE LANDS INCLUDED IN THE PLAT OF GENESIS

David J. Worzala
DAVID J. WORZALA, COUNTY TREASURER
COUNTY OF DANE, WISCONSIN

CONSENT OF CORPORATE MORTGAGEE

JOHNSON BANK, A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN, MORTGAGEE OF THE ABOVE DESCRIBED LAND, DOES HEREBY CONSENT TO THE SURVEYING, DIVIDING, MAPPING AND DEDICATING OF THE LAND DESCRIBED ON THIS PLAT, AND DOES HEREBY CONSENT TO THE ABOVE CERTIFICATE OF GENESIS COMMONS, LLC, OWNER.

IN WITNESS WHEREOF, THE SAID JOHNSON BANK HAS CAUSED THESE PRESENTS TO BE SIGNED BY Paul Mauder, ITS Vice President, AND COUNTERSIGNED BY Kenneth D. Jones, ITS Senior Vice President, AT Johnson Bank, WISCONSIN, AND ITS CORPORATE SEAL TO BE HEREUNTO AFFIXED THIS 10 DAY OF June, 2011.

IN THE PRESENCE OF:

James G. Hendrickson
Johnson Bank (CORPORATE SEAL)
CORPORATE NAME
6-10-11
DATE
Kenneth D. Jones
6-10-11
DATE

STATE OF WISCONSIN)
Dane COUNTY)SS

PERSONALLY CAME BEFORE ME THIS 10 DAY OF June, 2011, Paul Mauder, Vice President (TITLE), AND Ken Dickson, Vice President (TITLE) OF THE ABOVE NAMED CORPORATION, TO ME KNOWN TO BE SUCH Vice President (TITLE) AND Vice President (TITLE) OF SAID CORPORATION, AND ACKNOWLEDGED THAT THEY EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICERS AS THE DEED OF SAID CORPORATION, BY ITS AUTHORITY.

Charles C. Salzwede
NOTARY PUBLIC, STATE OF WISCONSIN
Charles C. Salzwede
(PRINT OR TYPE NAME)
MY COMMISSION EXPIRES 5-19-2013



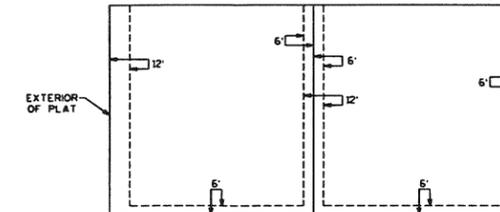
FINAL PLAT OF
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BEING ALL OF OUTLOT 1, OUTLOT 2, AND OUTLOT 3, OF CERTIFIED SURVEY MAP NO. 12423, VOLUME 77, PAGE 216, LOCATED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 27, TOWNSHIP 7 NORTH, RANGE 10 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

TYPICAL EASEMENTS

NOT TO SCALE

PUBLIC STREET



CONSENT OF CORPORATE MORTGAGEE

MONONA STATE BANK, A CORPORATION DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN, MORTGAGEE OF THE ABOVE DESCRIBED LAND, DOES HEREBY CONSENT TO THE SURVEYING, DIVIDING, MAPPING AND DEDICATING OF THE LAND DESCRIBED ON THIS PLAT, AND DOES HEREBY CONSENT TO THE ABOVE CERTIFICATE OF GENESIS COMMONS, LLC, OWNER.

IN WITNESS WHEREOF THE SAID MONONA STATE BANK HAS CAUSED THESE PRESENTS TO BE SIGNED BY Ted Guderson, ITS Vice President, AND COUNTERSIGNED BY Jeff Olsch, ITS Vice President, AT Madison, WISCONSIN, AND ITS CORPORATE SEAL TO BE HEREUNTO AFFIXED THIS 10 DAY OF JUNE, 2011.

IN THE PRESENCE OF:

Susan Hoffman

Monona State Bank (CORPORATE SEAL)

DATE 6-10-11
Jeff Olsch 6-10-11
DATE

STATE OF WISCONSIN
Dane COUNTY

PERSONALLY CAME BEFORE ME THIS 10 DAY OF June, 2011, Ted Guderson Vice President (TITLE), AND Jeff Olsch Vice President (TITLE) OF THE ABOVE NAMED CORPORATION, TO ME KNOWN TO BE SUCH Vice President (TITLE) AND Vice President (TITLE) OF SAID CORPORATION, AND ACKNOWLEDGED THAT THEY EXECUTED THE FOREGOING INSTRUMENT AS SUCH OFFICERS AS THE DEED OF SAID CORPORATION, BY ITS AUTHORITY.

Ophele N. Bailly

NOTARY PUBLIC, STATE OF WISCONSIN
Ophele N. Bailly
(PRINT OR TYPE NAME)
MY COMMISSION EXPIRES 4/1/15.



REGISTER OF DEEDS CERTIFICATE

RECEIVED FOR RECORDING THIS 14th DAY OF June, 2011, AT 10:08 O'CLOCK A.M., IN VOLUME 59-091A OF PLATS, ON PAGES 419-421 AS DOCUMENT NO. 4770373

Kristi Chlebowski by Peter Olsch, deputy
KRISTI CHLEBOWSKI
REGISTER OF DEEDS

CURVE DATA TABLE

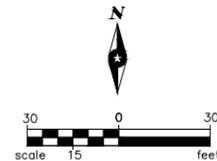
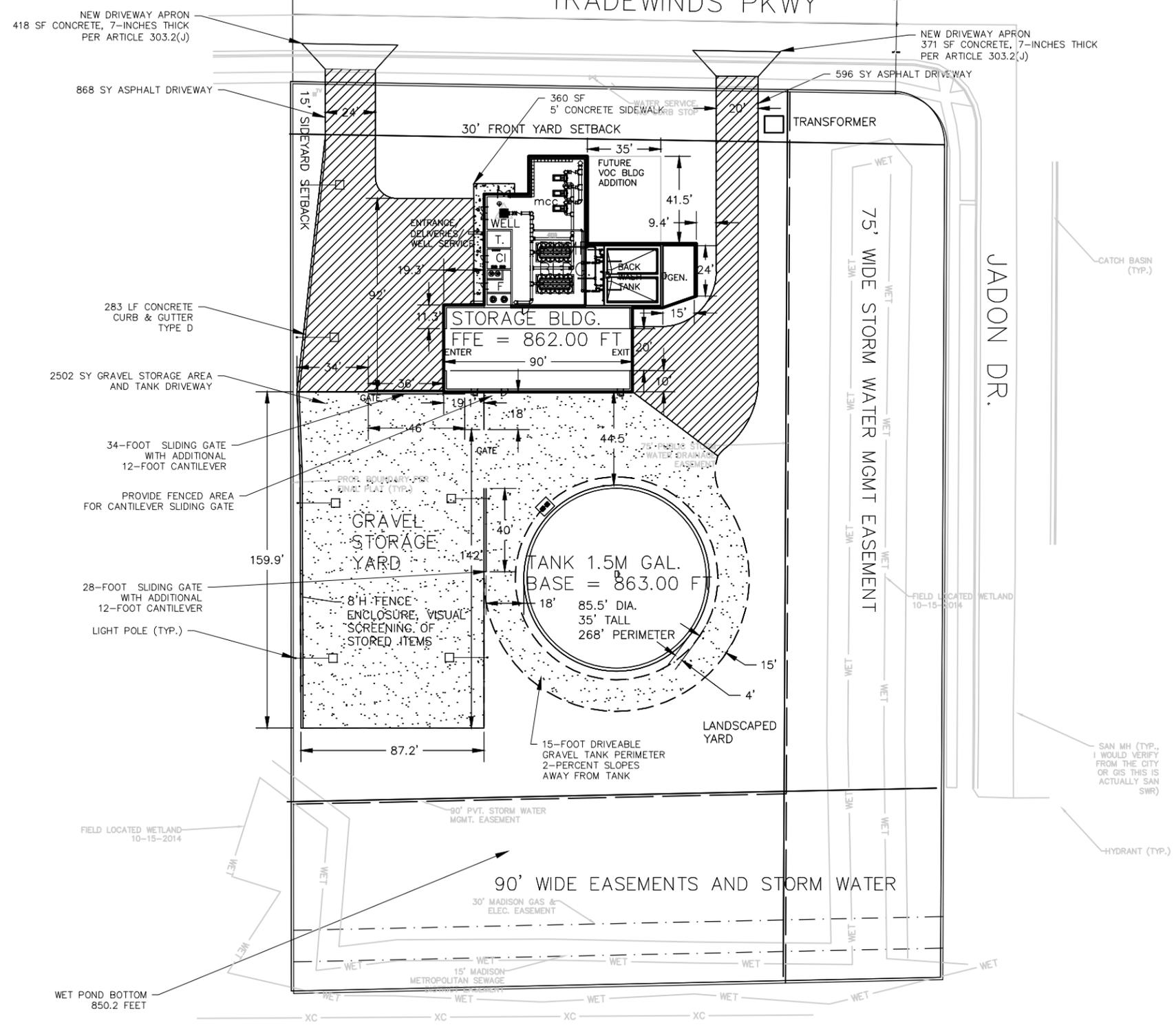
CURVE	LOT	RADIUS	CENTRAL ANGLE	LENGTH	CHORD BEARING	CHORD LENGTH	TANGENT FORWARD	TANGENT BACK
1-2		421.39'	57°18'06"	421.44'	S51°45'34"E	404.09'	S23°06'31"E	S80°24'37"E
	1	421.39'	46°22'38"	341.09'	S46°17'50"E	331.86'	S23°06'31"E	S69°29'09"E
	2	421.39'	10°55'28"	80.35'	S74°56'53"E	80.23'	S69°29'09"E	S80°24'37"E
3-4		25.00'	102°10'57"	44.59'	S29°19'08.5"E	38.91'	S21°46'20"W	S80°24'37"E
4-5		144.00'	91°09'40"	229.11'	S67°21'10"W	205.70'	N67°04'00"W	S21°46'20"W
6-7		144.00'	22°00'00"	55.29'	N78°04'00"W	54.95'	N89°04'00"W	N67°04'00"W
8-9		78.00'	22°00'00"	29.95'	S78°04'00"E	29.77'	S67°04'00"E	S89°04'00"E
	6	78.00'	14°53'32"	20.27'	S74°30'46"E	20.22'	S67°04'00"E	S81°57'32"E
	7	78.00'	07°06'28"	9.68'	S85°30'46"E	9.67'	S81°57'32"E	S89°04'00"E
10-11		25.00'	89°21'00"	38.99'	S44°23'30"E	35.15'	S89°04'00"E	S00°17'00"W
12-13		25.00'	90°39'00"	39.55'	N45°36'30"E	35.55'	N00°17'00"E	S89°04'00"E
18-19		210.00'	97°12'34"	356.29'	S64°19'43"W	315.07'	N67°04'00"W	S15°43'26"W
	4	210.00'	59°02'11"	216.38'	N45°14'31.5"E	206.93'	N15°43'26"E	N74°45'37"E
	5	210.00'	38°10'23"	139.91'	S86°09'11.5"E	137.34'	N74°45'37"E	S67°04'00"E
19-20		25.00'	83°51'57"	36.59'	N57°39'25"E	33.41'	S80°24'37"E	N15°43'26"E



There are no objections to this plat with respect to Secs. 236.15, 236.16, 236.20 and 236.21(1) and (2), Wis Stats. as provided by s. 236.12, Wis. Stats.
Certified June 9th, 2011.
Kevin M. Pomy
Department of Administration

5-9-2011
Jason L. Cance
WISCONSIN
JASON L. CANCE
S-2688
CHIPPEWA FALLS
WI
LAND SURVEYOR

DATE: 2-17-09
REVISION 1: 12-16-09
REVISION 2: 5-9-2011
SHEET 3 OF 3



**2015 WELL 31 WATER TREATMENT PLANT
 & GROUND STORAGE RESERVOIR
 MADISON, WISCONSIN**

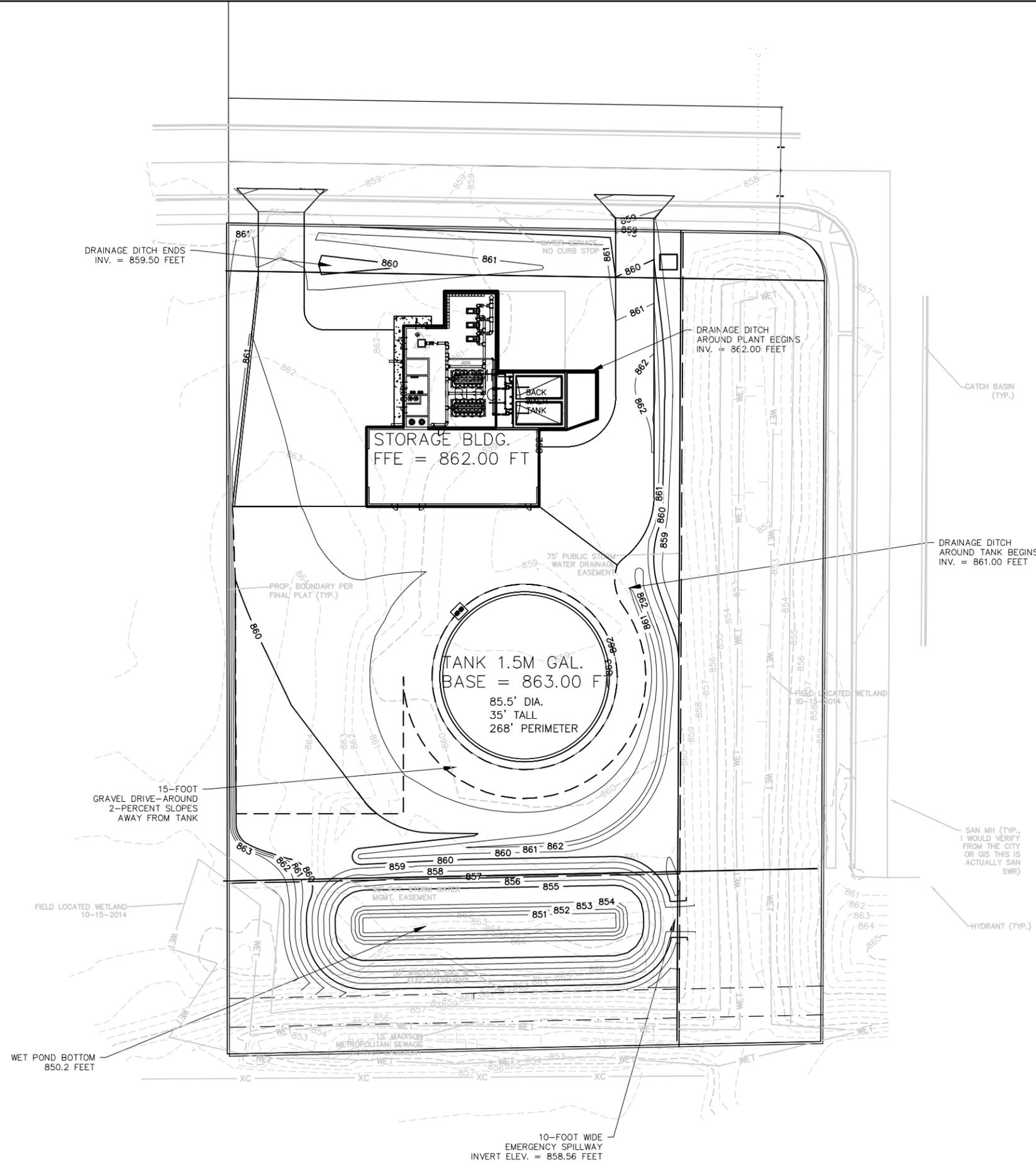
MARK	DATE	REVISIONS	DESCRIPTION

SEH FILE NO.	MADWU 129083
PROJECT NO.	03-02-15
ISSUE DATE	RANDY SANFORD
DESIGNED BY	JOSHUA BOHNERT
DRAWN BY	Short Elliott Hendrickson, Inc. © (SEH)
	© 2015 Short Elliott Hendrickson, Inc.

SHEET TITLE	UNIT WELL 31 SITE PLAN
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SHEET	G2
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TOTAL IMPERVIOUS AREA = 52,160 SF
 TOTAL DISTURBANCE AREA = 94,845 SF
 DISTURBANCE DUE TO SOUTH POND = 15,175 SF
 DISTURBANCE DUE TO WATER PLANT AND TANK = 79,670 SF



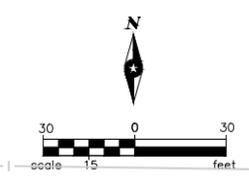
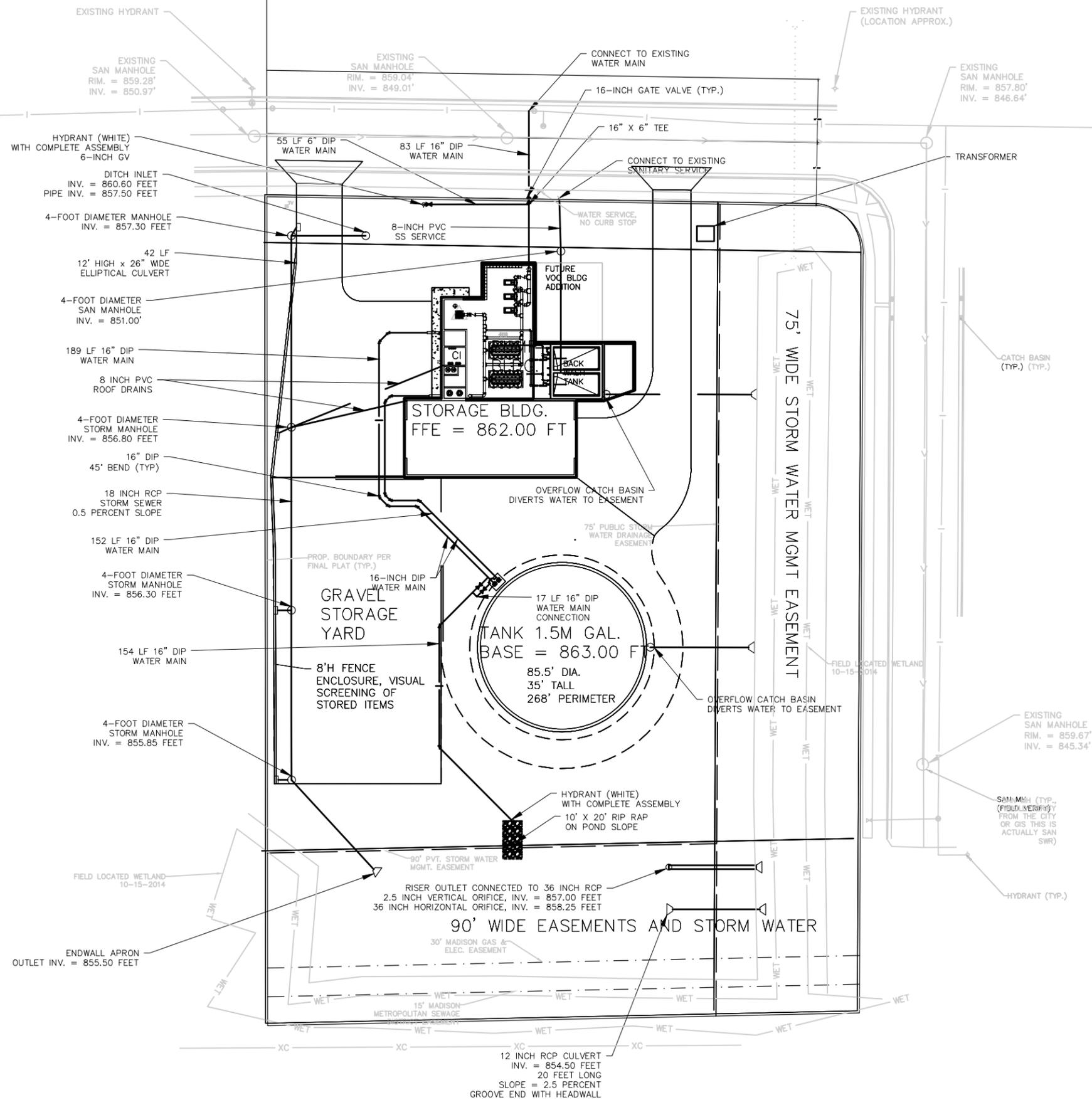
2015 WELL 31 WATER TREATMENT PLANT & GROUND STORAGE RESERVOIR
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION

SEH FILE NO. MADWU 129083	PROJECT NO. 02-15-15
ISSUE DATE	DESIGNED BY RANDY SANFORD
DRAWN BY	JOSHUA BOHNERT
Short Elliott Hendrickson, Inc. © (SEH) © 2015 Short Elliott Hendrickson, Inc.	

SHEET TITLE
UNIT WELL 31 GRADING PLAN

SHEET
C2



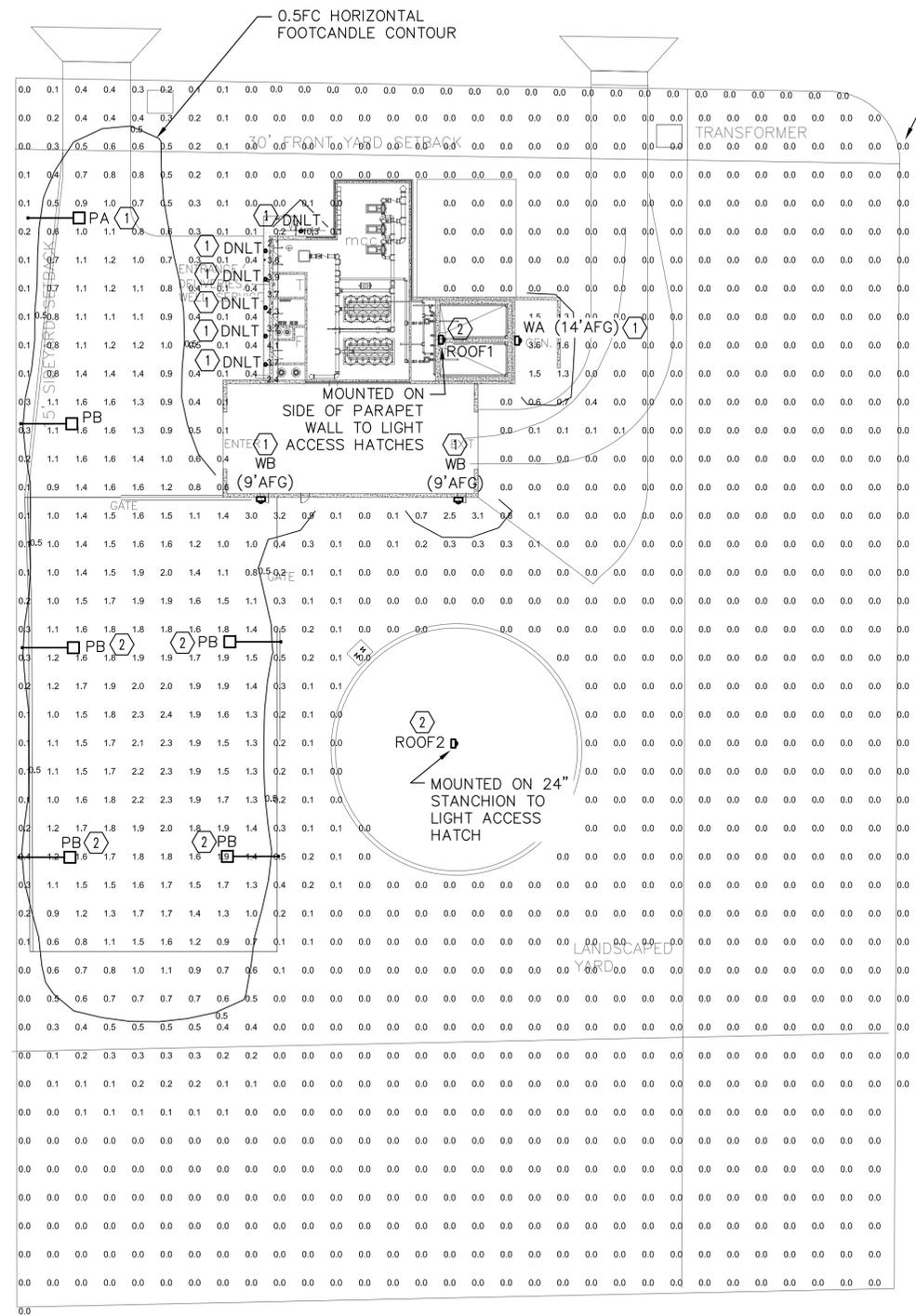
10 N BRIDGE STREET
MADISON, WI 53703
PHONE: 715.226.6200
FAX: 715.861.5301
WEBSITE: 800.472.5681
www.sehinc.com

**2015 WELL 31 WATER TREATMENT PLANT
& GROUND STORAGE RESERVOIR
MADISON, WISCONSIN**

MARK	DATE	REVISIONS	DESCRIPTION

SEH FILE NO. PROJECT NO. ISSUE DATE DESIGNED BY DRAWN BY	MADWU 129083 03-04-15 RANDY SANFORD JOSHUA BOHNERT
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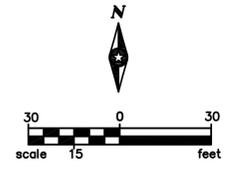
SHEET TITLE	UNIT WELL 31 UTILITY PLAN
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HORIZONTAL FOOTCANDLES AT 4'-FT ABOVE GRADE

- KEYED NOTES:**
- ① LIGHT CONTROLLED VIA PHOTOCELL (ON DUSK/DAWN)
 - ② LIGHT CONTROLLED VIA SWITCH (ONLY ON FOR MAINTENANCE WORK)

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
☐	WA	1	DSXW1 LED 20C 350 40K TFTM MVOLT	DSXW1 LED WITH 2 LIGHT ENGINES, 20 LED's, 350mA DRIVER, 4000K LED, TYPE FORWARD THROW MEDIUM OPTIC	LED	DSXW1_LED_20C_350_40K_TFTM_MVOLT.ies	Absolute	0.85	25
☐	WB	2	DSXW1 LED 10C 350 40K T3M MVOLT	DSXW1 LED WITH 1 LIGHT ENGINE, 10 LED's, 350mA DRIVER, 4000K LED, TYPE 3 MEDIUM OPTIC	LED	DSXW1_LED_10C_350_40K_T3M_MVOLT.ies	Absolute	0.85	13.21
☐	PA	1	DSX1 LED 30C 530 40K T3M MVOLT HS	DSX1 LED WITH (1) 30 LED LIGHT ENGINES, TYPE T3M OPTIC, 4000K, @ 530mA WITH HOUSE SIDE SHIELD	LED	DSX1_LED_30C_530_40K_T3M_MVOLT_HS.ies	Absolute	0.85	52
☐	PB	5	DSX1 LED 40C 700 40K T3M MVOLT HS	DSX1 LED WITH (2) 20 LED LIGHT ENGINES, TYPE T3M OPTIC, 4000K, @ 700mA WITH HOUSE SIDE SHIELD	LED	DSX1_LED_40C_700_40K_T3M_MVOLT_HS.ies	Absolute	0.85	89
○	DNL1	6	DOM6 600L DO6	603 delivered lumens	ONE 15-WATTLED, HORIZONTAL POS.	DOM6_600L_DO6.ies	Absolute	0.85	15,624
☐	ROOF1	1	TWR1 LED 1 40K MVOLT	2100lm TWR1 LED WALLPACK	LED	TWR1_LED_1_40K_MVOLT.ies	Absolute	0.85	34.4
☐	ROOF2	1	DSXF1 LED 1 AS3040K HMF MVOLT	D-SERIES FLOOD SIZE 1 WITH 1 COB, 4000K, (HMF) DISTRIBUTION, NEMA TYPE 6HX4V	LED	DSXF1_LED_1_AS3040K_HMF_MVOLT.ies	Absolute	0.85	21



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2015 WELL 31 WATER TREATMENT PLANT
MADISON, WISCONSIN

MARK	DATE	DESCRIPTION
XXXXXX	03-02-15	RICK BOYA BRIAN FULLER

SEH FILE NO. XXXXXX
PROJECT NO. 03-02-15
ISSUE DATE RICK BOYA
DESIGNED BY BRIAN FULLER
DRAWN BY

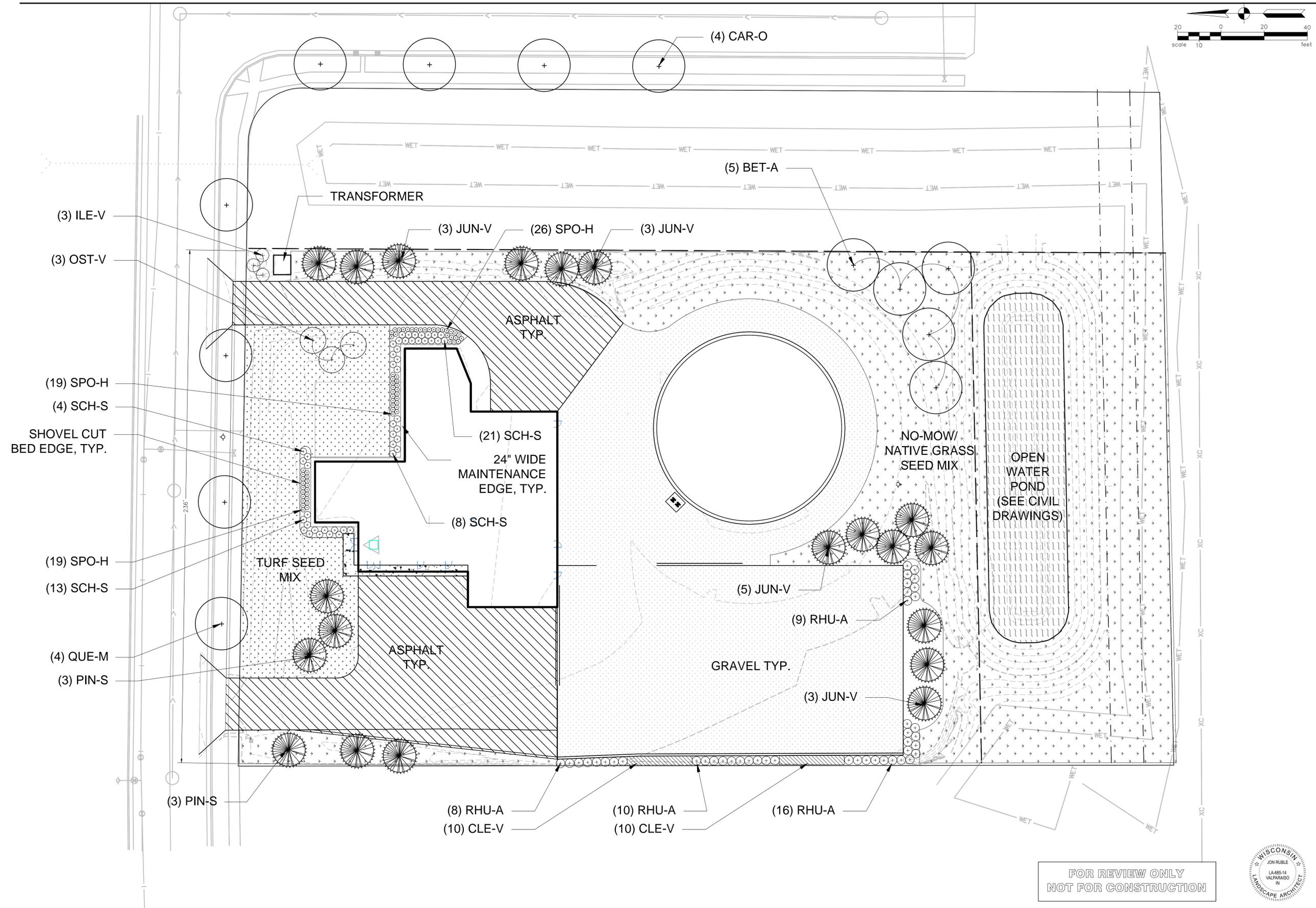
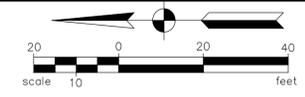
SHEET TITLE
**SITE LIGHTING
PHOTOMETRIC PLAN**

SHEET
SL

20711 WATERTOWN RD., SUITE C
WALKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

3/2/2015 2:57 PM

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FOR REVIEW ONLY
NOT FOR CONSTRUCTION



2015 WELL 31 WATER TREATMENT PLANT
MADISON, WISCONSIN

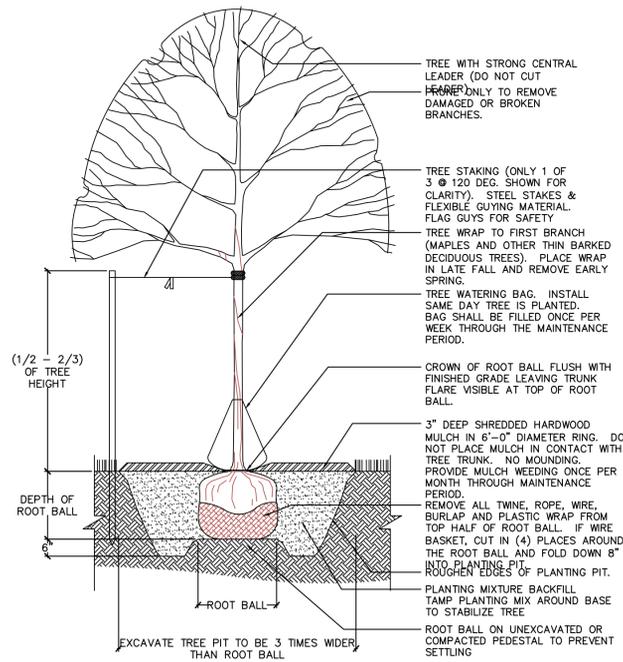
MARK	DATE	DESCRIPTION

SEH FILE NO. MADWU 129083
 PROJECT NO. 03-02-15
 ISSUE DATE
 DESIGNED BY BETH MILLER
 DRAWN BY BETH MILLER
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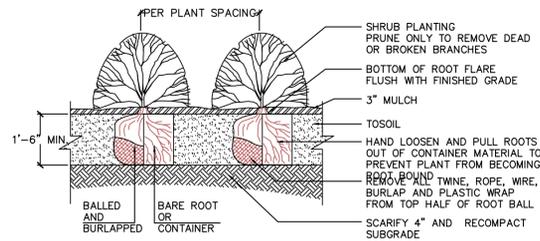
SHEET TITLE
 LANDSCAPE
 PLAN

SHEET
 L1

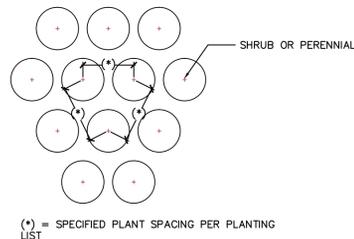




1 TREE PLANTING DETAIL
NOT TO SCALE



2 SHRUB PLANTING DETAIL
NOT TO SCALE



3 PLANT SPACING DETAIL
NOT TO SCALE

Lineal feet of frontage: 236
Total Developed Area (sq. ft.): 92,484

ORDINANCE 28.142 LANDSCAPE & SCREENING REQUIREMENTS

Plant Type	Points	Minimum Size at Installation
Overstory Deciduous Tree	35	2.5 inch caliper
Ornamental Tree	15	1.5 inch caliper
Evergreen Tree	15	3 feet tall
Shrub, deciduous	2	18" or 3 gallon container size
Shrub, evergreen	3	18" or 3 gallon container size
Ornamental Grasses	2	18" or 3 gallon container size
Ornamental/decorative fencing or wall	4 per 10 ft.	n/a

Landscape Calculations & Distribution

Landscape Calculations & Distribution	Plant Req.	Req. Points
Required Landscape Units:	154	771
Development Frontage Landscape		
Overstory Deciduous Trees:	8	275
Ornamental Trees:	0	0 (2 may be used in the place of 1 Overstory Deciduous Tree)
Evergreen Trees:	0	0 (2 may be used in the place of 1 Overstory Deciduous Tree)
Shrub, deciduous	39	0
Shrub, evergreen	0	0
Ornamental Grasses	0	0
Frontage Fencing (in lineal feet)	236	0
TOTAL POINTS:		275

Development Landscape

Development Landscape	Plants	Points
Overstory Deciduous Trees:	13	455
Ornamental Trees:	3	45
Evergreen Trees:	20	300
Shrub, deciduous	43	86
Shrub, evergreen	0	0
Ornamental Grasses	110	220
TOTAL POINTS:		1106

4 ORDINANCE REQUIREMENTS

Madison Wellhead 31
Plant List

Quantity	Code	Botanical Name	Common Name	Size	Spacing
SHADE TREES					
5	BET-A	<i>Betula alleghaniensis</i>	Yellow Birch	2.5" cal.	24'
4	CAR-O	<i>Carya ovata</i>	Shagbark Hickory	2.5" cal.	24'
4	QUE-M	<i>Quercus macrocarpa</i>	Bur Oak	2.5" cal.	24'
13					

ORNAMENTAL TREES					
3	OST-V	<i>Ostrya virginiana</i>	Ironwood (Eastern Hop Hornbeam)	8' B&B	12'
3					

EVERGREEN TREES					
14	JUN-V	<i>Juniperus virginiana</i>	Eastern Red Cedar	8' B&B	
6	PIN-S	<i>Pinus strobus</i>	Eastern White Pine	8' B&B	
20					

SHRUBS					
3	ILE-V	<i>Ilex verticillata</i>	Winterberry	#5	5'
43	RHU-A	<i>Rhus aromatica 'Gro-Low'</i>	Gro-Low Sumac	#5	3'
46					

SHRUBBY VINE					
20	CLE-V	<i>Clematis virginiana</i>	Virgin's Bower (Woodbine)	#3	36"
20					

ORNAMENTAL GRASSES					
46	SCH-S	<i>Schizachyrium scoparium 'Carousel'</i>	Carousel Little Bluestem	#3	30"
64	SPO-H	<i>Sporobolus heterolepis</i>	Prairie Dropseed	#3	24"
110					

GRASSES					
-	-	-	Turf Seed Mix		
-	-	-	No-Mow/Native Grass Seed Mix		

5 PLANT SCHEDULE

PLANTING NOTES:

- EXISTING SHRUBS FOUND ON SITE SHALL BE REMOVED. QUESTIONS REGARDING EXISTING PLANT MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL.
- THE LAYOUT OF ALL PLANTING BEDS AND INDIVIDUAL TREES SHALL BE STAKED BY THE CONTRACTOR IN ADVANCE OF INSTALLATION. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE LANDSCAPE ARCHITECT WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAKE MINOR ADJUSTMENTS AS NECESSARY. BED LAYOUT SHALL ALSO INCLUDE PERENNIAL GROUPINGS BY SPECIES.
- THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING THE PLANT MATERIAL QUANTITIES REQUIRED BY THE LANDSCAPE PLANS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- SALVAGE TOPSOIL FROM THE EARTHWORK AREAS AS APPROPRIATE AND/OR AS DIRECTED BY LANDSCAPE ARCHITECT AND STOCKPILE FOR REUSE IN LOCATION APPROVED BY OWNER.
- CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN ALL AREAS.
- ALL SEED & SOD AREAS SHALL RECEIVE A MINIMUM OF 6" DEPTH OF TOPSOIL.
- ALL PLANTING BEDS SHALL RECEIVE 18" DEPTH OF PREPARED SOIL.
- PAINT OR STAKE LIMITS OF SEEDING FOR REVIEW BY LANDSCAPE ARCHITECT & OWNER PRIOR TO SEEDING.
- NEW SEEDED AREAS TO BE TREATED WITH HERBICIDE TO KILL ALL EXISTING GROUNDCOVER. THERE SHALL BE A MINIMUM OF TWO (2) APPLICATIONS SEPARATED BY 10 DAYS. IF ALL EXISTING GROUNDCOVER VEGETATION IS NOT KILLED WITHIN 10 DAYS OF 2ND APPLICATION, A 3RD APPLICATION IS REQUIRED.
- ALL DISTURBED AREAS OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- ALL PLANTING BEDS SHALL HAVE A SHOVEL CUT EDGE, UNLESS OTHERWISE SPECIFIED.
- ALL PLANTING BEDS AND PLANTED TREES SHALL BE MULCHED WITH 3" DEEP SHREDDED HARDWOOD MULCH PER PLANTING DETAILS. MULCH SHALL BE CONSIDERED INCIDENTAL TO PLANT MATERIALS.
- NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL BY THE LANDSCAPE ARCHITECT. ALL PLANT MATERIAL AND SEED SHALL BE PROVIDED FROM A NURSERY (WITHIN 200 MILES) WITH A SIMILAR PLANT HARDINESS ZONE AS PROJECT LOCATION.
- CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE 1 YEAR WARRANTY ON ALL PLANT MATERIAL.
- LAWN SEED SHALL BE ESTABLISHED BY THE CONTRACTOR TO A DENSE, GREEN CONSISTENT LAWN VOID OF ANY BARE OR PATCHY AREAS LARGER THAN 3'X3'
- SEED PRIOR TO OCT. 15. IF SEEDED AFTER OCT. 15, MAINTAIN AND ESTABLISH LAWN UNTIL SPRING REVIEW.

10 N BRIDGE STREET
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2015 WELL 31 WATER TREATMENT PLANT
MADISON, WISCONSIN

MARK DATE REVISIONS DESCRIPTION

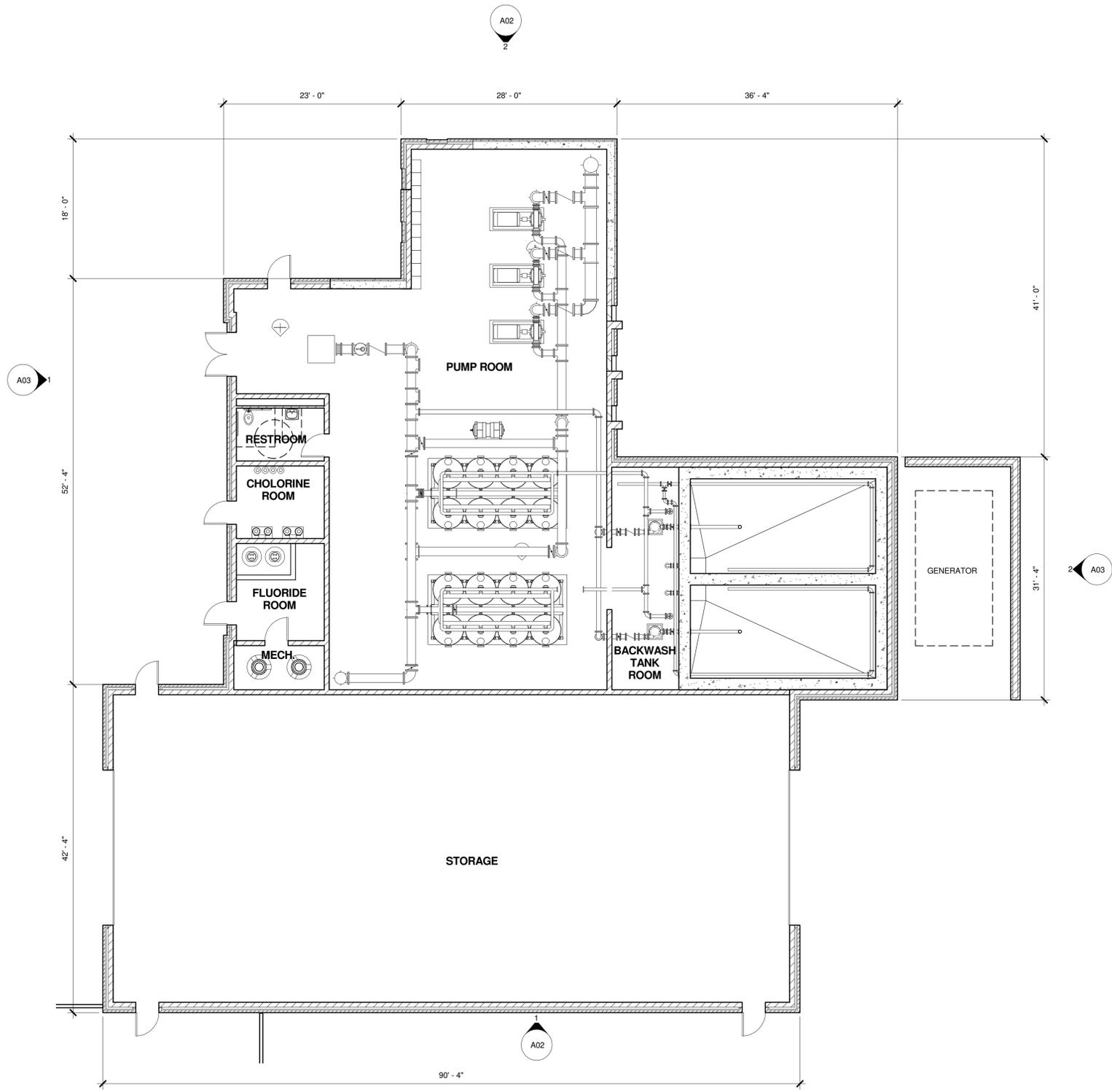
MADWU 129083
03-02-15
BETH MILLER
BETH MILLER
Short Elliott Hendrickson, Inc. @ (SEH)
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SHEET TITLE
LANDSCAPE
DETAILS

SHEET

L2





1 FIRST FLOOR PLAN
 A01 1/8" = 1'-0"

10 NORTH BRIDGE ST.
 CHIPPEWA FALLS, WI 54729
 PHONE: ###.###.###
 FAX: ###.###.###
 WEBSITE: www.sehinc.com
 WATTS: 800.355.5955



**Potter
 Lawson**
 SUCCESS BY DESIGN

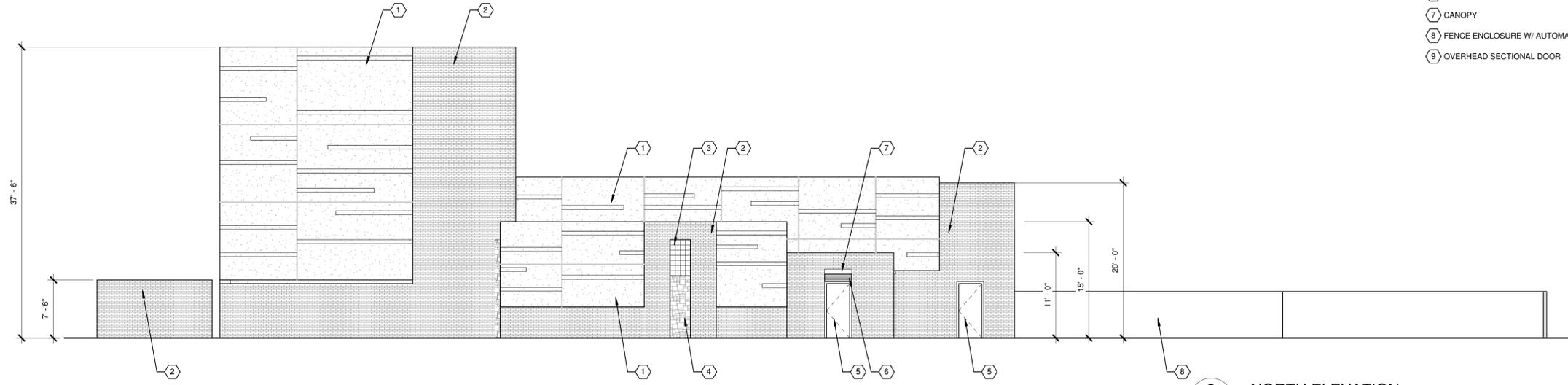
**2015 WELL 31 WATER TREATMENT
 PLANT**
MADISON, WI

MARK	DATE	DESCRIPTION

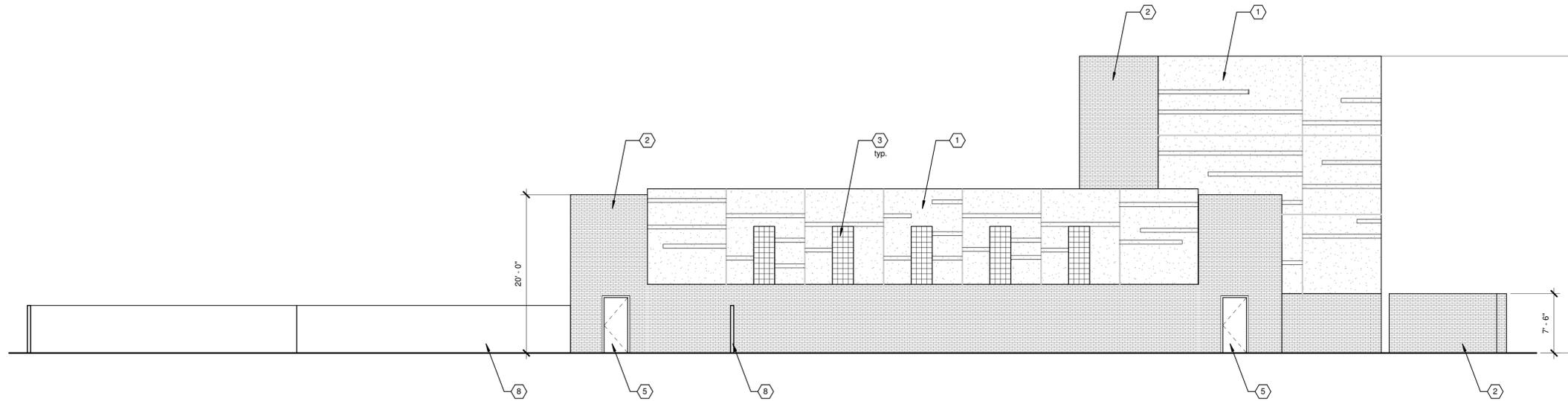
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 CITY PROJECT NO. 03-04-15
 ISSUE DATE Designer
 DESIGNED BY Author
 DRAWN BY

SHEET TITLE
FLOOR PLANS

SHEET
A01



2 NORTH ELEVATION
A02 1/8" = 1'-0"



1 SOUTH ELEVATION
A02 1/8" = 1'-0"

- KEYNOTES:**
- 1 INSULATED ARCHITECTURAL PRECAST CONCRETE
 - 2 RUNNING BOND BRICK VENEER
 - 3 GLASS BLOCK
 - 4 STONE VENEER
 - 5 HOLLOW METAL DOOR & FRAME
 - 6 METAL LOUVER
 - 7 CANOPY
 - 8 FENCE ENCLOSURE W/ AUTOMATIC SLIDING GATE
 - 9 OVERHEAD SECTIONAL DOOR

10 NORTH BRIDGE ST.
CHIPPEWA FALLS, WI 54729
PHONE: ###-###-####
FAX: ###-###-####
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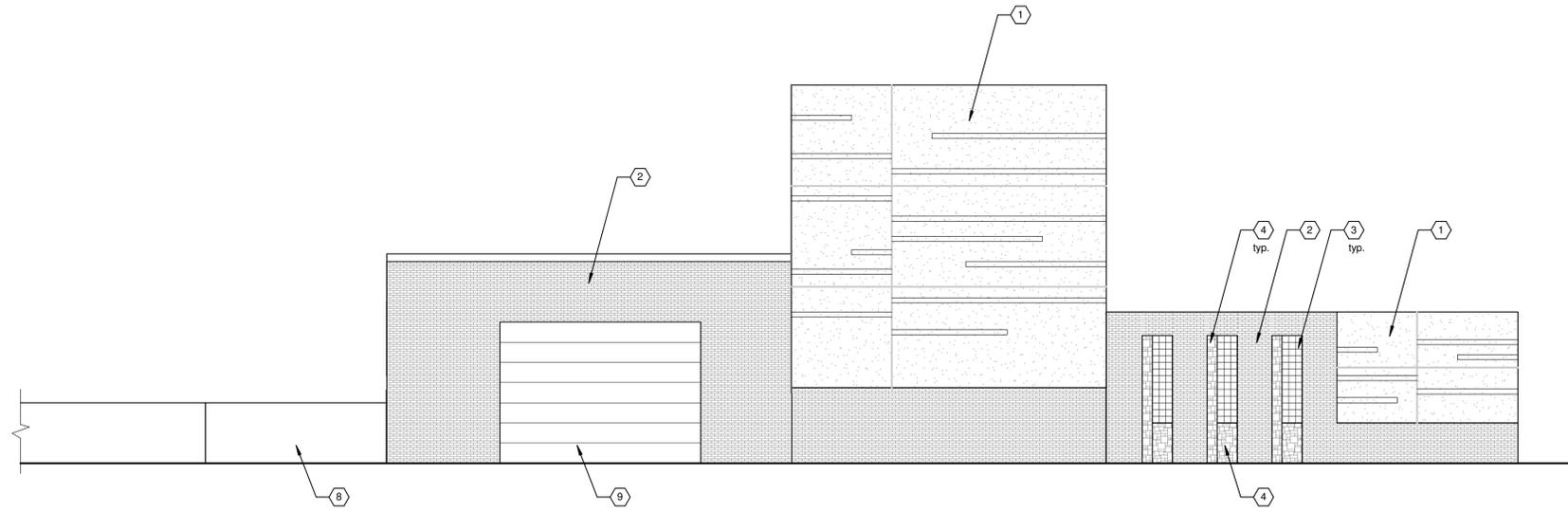
**2015 WELL 31 WATER TREATMENT
PLANT
MADISON, WI**

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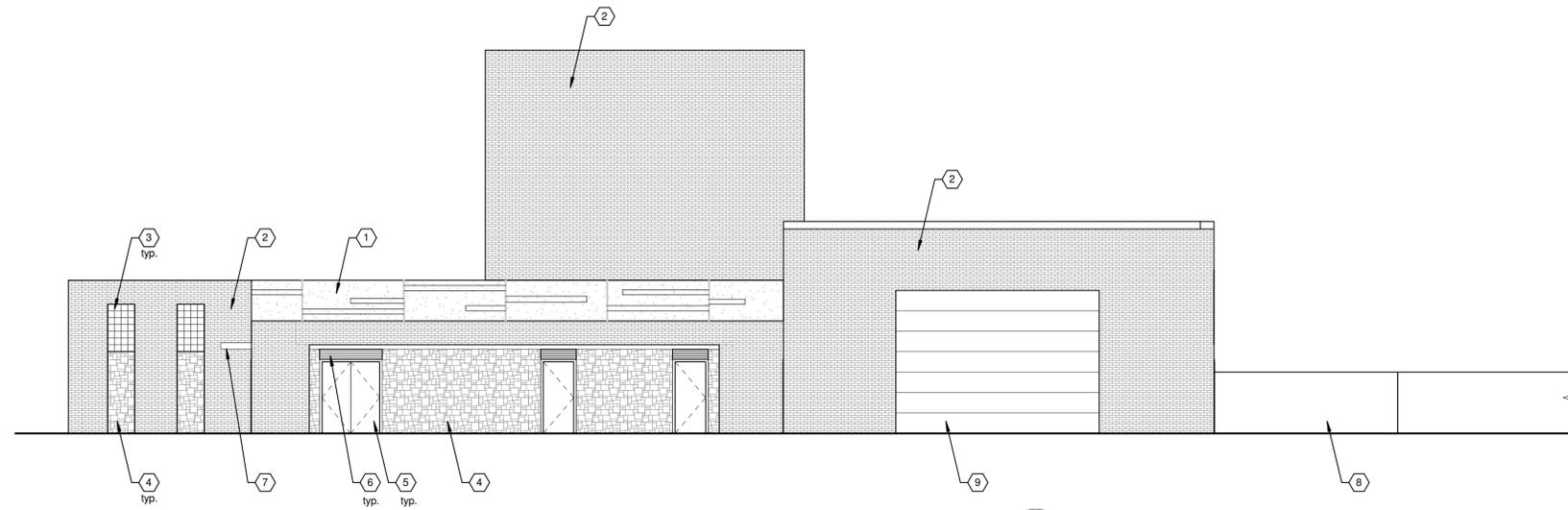
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CITY PROJECT NO. 03-04-15
ISSUE DATE Designer
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SHEET TITLE
BUILDING ELEVATIONS

SHEET
A02



2 EAST ELEVATION
A03 1/8" = 1'-0"



1 WEST ELEVATION
A03 1/8" = 1'-0"

- KEYNOTES:**
- 1 INSULATED ARCHITECTURAL PRECAST CONCRETE
 - 2 RUNNING BOND BRICK VENEER
 - 3 GLASS BLOCK
 - 4 STONE VENEER
 - 5 HOLLOW METAL DOOR & FRAME
 - 6 METAL LOUVER
 - 7 CANOPY
 - 8 FENCE ENCLOSURE W/ AUTOMATIC SLIDING GATE
 - 9 OVERHEAD SECTIONAL DOOR

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**2015 WELL 31 WATER TREATMENT
PLANT
MADISON, WI**

MARK	DATE	DESCRIPTION

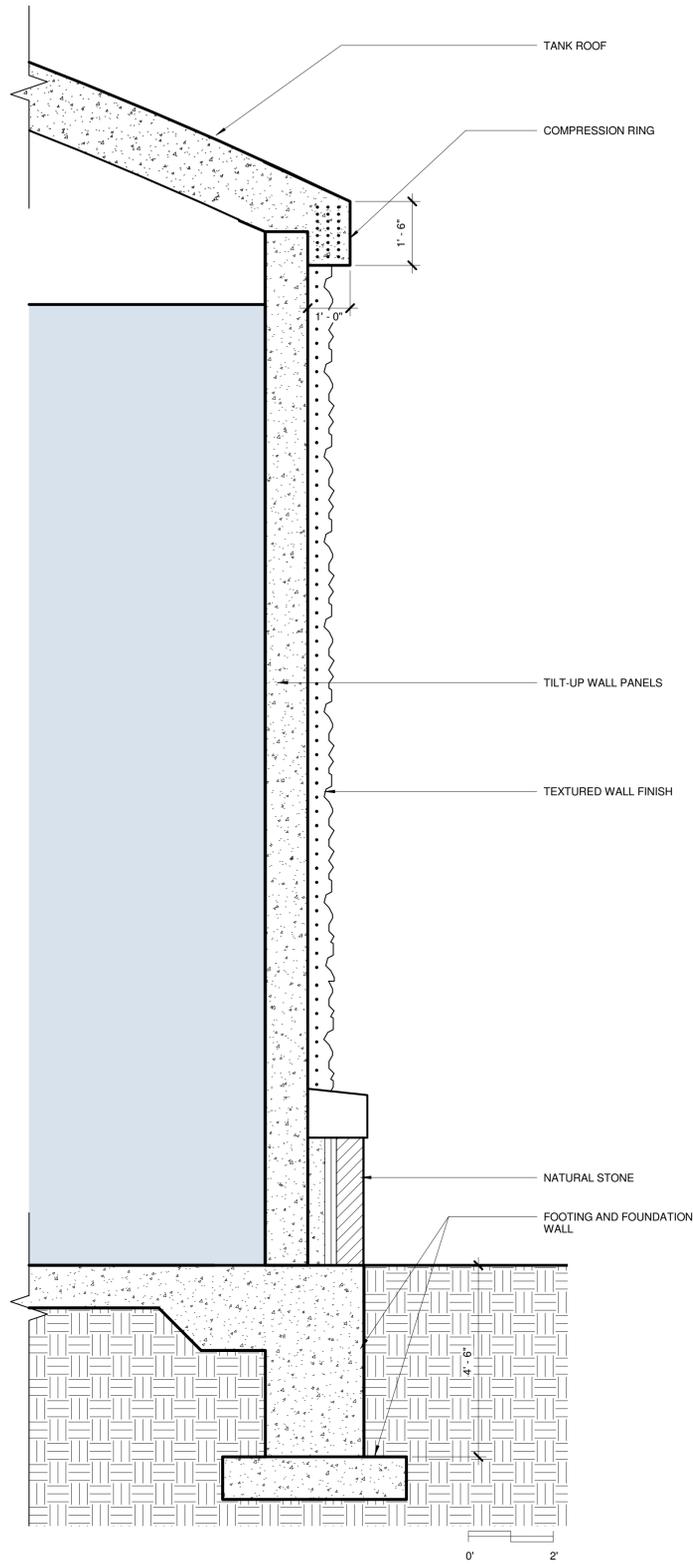
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CITY PROJECT NO. 03-04-15
ISSUE DATE Designer
DESIGNED BY Author
DRAWN BY

SHEET TITLE
BUILDING ELEVATIONS

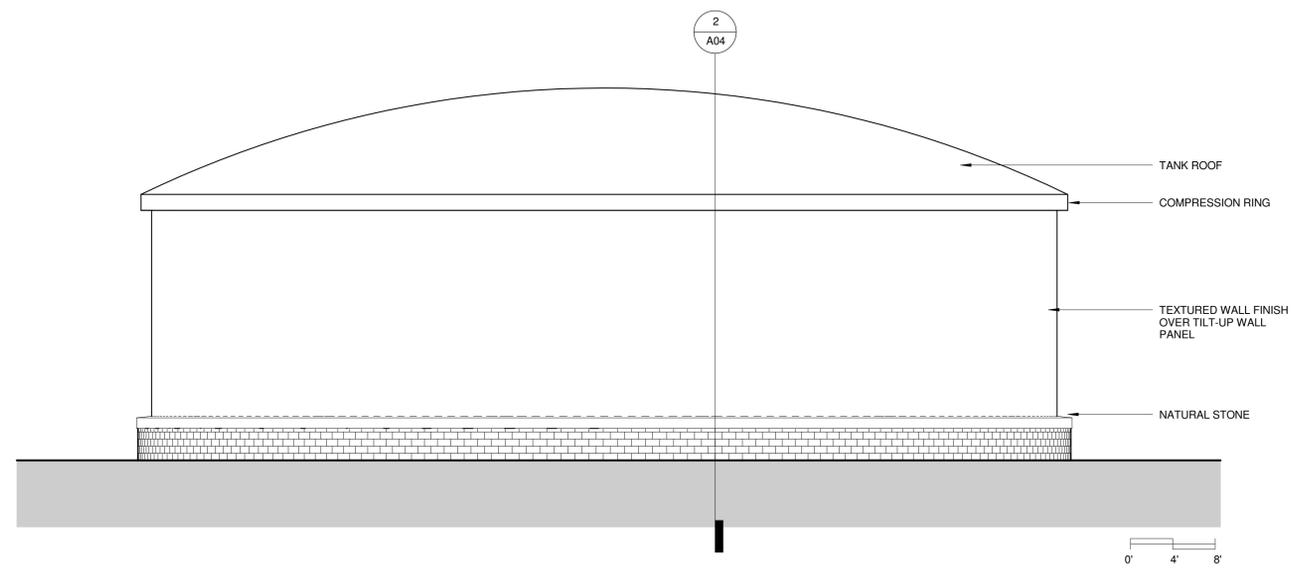
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A03

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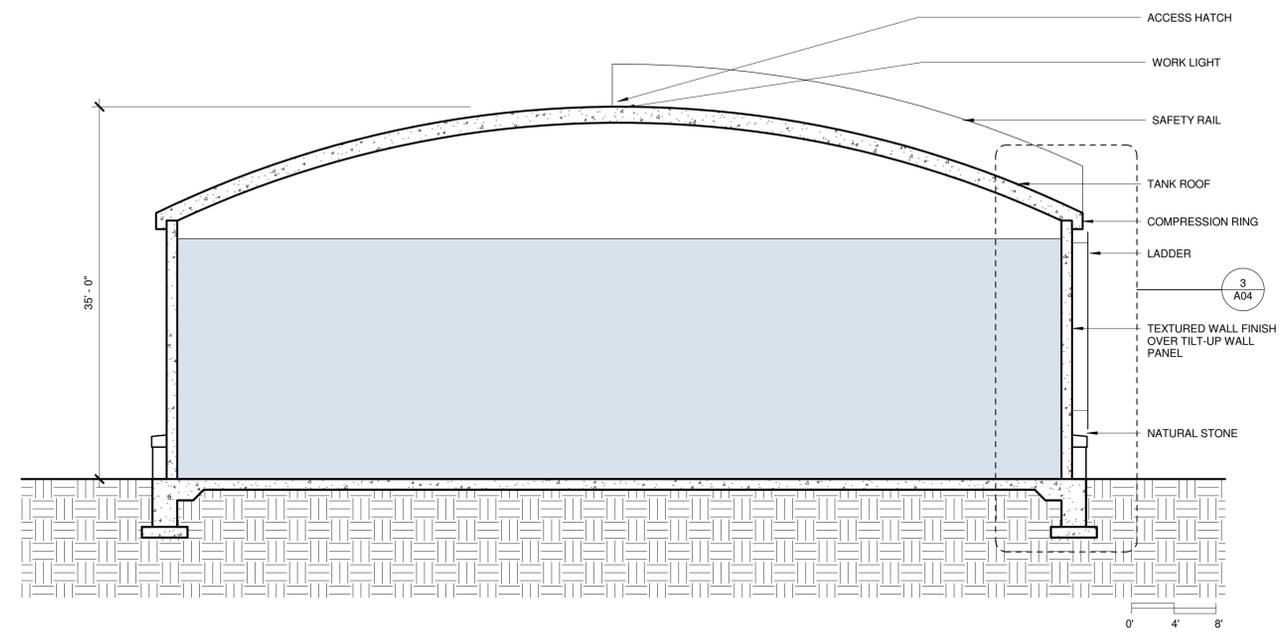
C:\Users\katherinc\Documents\201423_Well_31_Central_katherinc.rvt



3 TANK WALL SECTION
A04 1/2" = 1'-0"



1 TANK ELEVATION
A04 1/8" = 1'-0"



2 TANK SECTION
A04 1/8" = 1'-0"

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2015 WELL 31 WATER TREATMENT
PLANT
MADISON, WI

MARK	DATE	DESCRIPTION

FILE NO. MADWU 129883
CITY PROJECT NO. 03-04-15
ISSUE DATE Designer
DESIGNED BY Author
DRAWN BY

SHEET TITLE
**TANK ELEVATIONS,
SECTIONS & DETAILS**

SHEET
A04



NORTHWEST VIEW



NORTHEAST VIEW

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 CHIPPEWA FALLS, WI 54729
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 FAX: 715.853.5655
 WWW.SEHINC.COM



**Potter
 Lawson**
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**2015 WELL 31 WATER TREATMENT
 PLANT
 MADISON, WI**

MARK	DATE	DESCRIPTION	REVISIONS

FILE NO. **MADWU 129883**
 CITY PROJECT NO. **03-04-15**
 ISSUE DATE **Designer**
 DESIGNED BY **Author**
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SHEET TITLE
BUILDING PERSPECTIVES

SHEET
A05



NORTHWEST VIEW



SOUTHWEST VIEW

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 CHIPPEWA FALLS, WI 54729
 PHONE: ### ### ###
 FAX: ### ### ###
 WWW: www.sehinc.com



**Potter
 Lawson**
 Success by Design

**2015 WELL 31 WATER TREATMENT
 PLANT
 MADISON, WI**

MARK	DATE	DESCRIPTION

FILE NO. **MADWU 129883**
 CITY PROJECT NO. **03-04-15**
 ISSUE DATE **Potter Lawson**
 DESIGNED BY **Potter Lawson**
 DRAWN BY **Potter Lawson**
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SHEET TITLE
BUILDING PERSPECTIVES

SHEET
A06



Stanford University Medical School -

Palo Alto, CA

An underground access drive to this campus medical school is secured with a surface mounted *greenscreen*® fence.



Hardiness Zone 9b

Installed 2009

Royal Trumpet Vine

greenscreen®

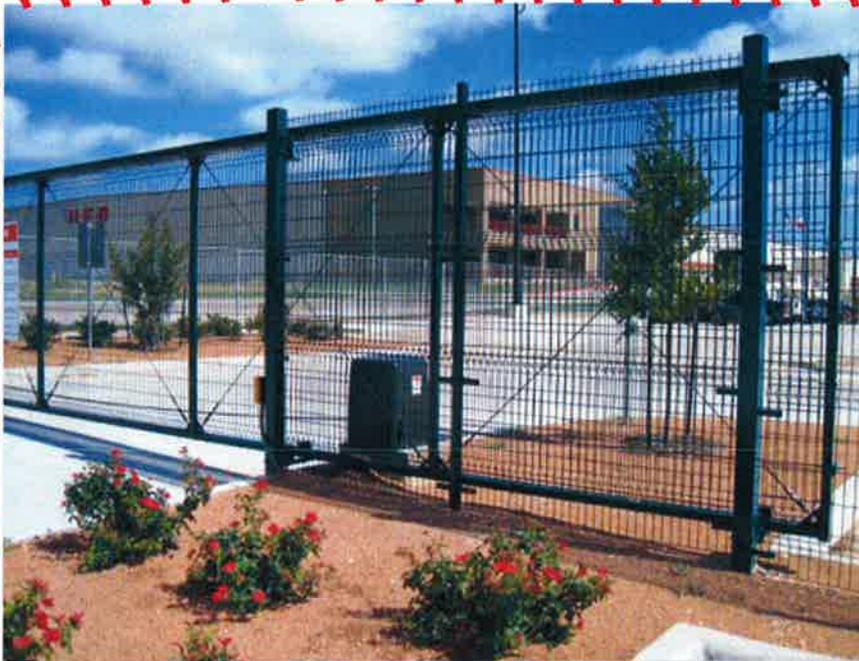
SPECIFICATIONS

Vertical Wire Size	6 gauge
Horizontal Wire Size	6 gauge
Wire Spacing	2 in. verticals x 6 in. horizontals
Panel Length	95 in.
Post Size Recommended Minimum	2 in. 14 gauge for 4 ft., 5 ft., and 6 ft.
	2 ½ in. 14 gauge for 8 ft.
Panel Heights	4 ft., 5 ft., 6 ft., and 8 ft.

Additional mesh sizes available; however, they may not attach with the patented snap-fit bracket insert.



SPECS & DRAWINGS @ MERCHANTSMETALS.COM



Gates

A large selection of gates, posts and accessories are available to coordinate with your Tuf-Grid® fencing solution. All are intricately fashioned by skilled craftsmen and then completed at the Merchants Metals factory with the same high-quality powder coat finishing.

Secure-Trac® Cantilever Gate

Secure-Trac® internal roller cantilever slide gates are produced using the highest quality materials and workmanship. The fully enclosed rollers eliminate safety issues commonly associated with external rollers and the gates are available to match each style of Tuf-Grid® fence.



High Security / Low Profile

The low profile design of Tuf-Grid® provides a high security fence that doesn't hide your property. With clean lines and environmentally blending color coating, Tuf-Grid® blends beautifully with the surrounding area while providing the security and protection you need.



RESIDENTIAL/COMMERCIAL

- Parks and Recreation
- High Security Applications
- Highways & Bridges
- State & Federal Agencies

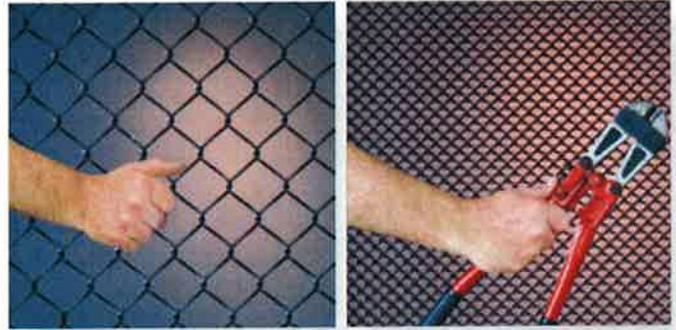
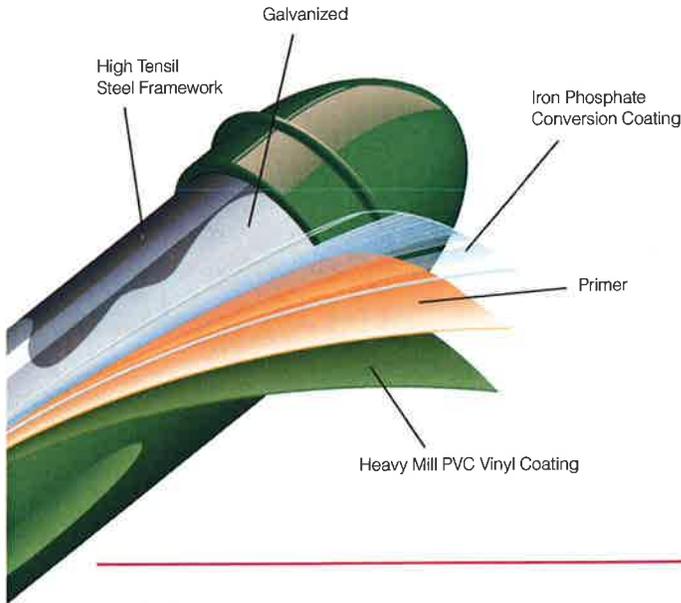
NatureLink® by Merchants Metals is the natural choice for homes, yards and light commercial projects that require the durability, affordability and security benefits of chain link. Available in three environmentally-inspired colors – brown, green and black – NatureLink® blends naturally with your environment and allows the beauty of your landscaping to show through!

Maintenance-free Brighton Vinyl Coat never chips, peels or fades.

Backed by a 15-Year Limited Warranty, NatureLink® stands the test of time with its extra thick vinyl PVC coating that is bonded over pre-galvanized, high tensile steel.



Merchants Metals is one of the largest manufacturers and distributors of fence systems in the nation and our products are available through professional fence contractors nationwide.



NatureLink® is available in an extensive range of wire and mesh sizes. From standard sizes which are suitable for most residential and commercial sites, to climb and cutter-resistant mini-mesh for locations where more security is required.



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