



# URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

This form may also be completed online at:

<http://www.cityofmadison.com/planning/documents/UDCApplication.pdf>

215 Martin Luther King Jr. Blvd; Room LL-100

PO Box 2985; Madison, Wisconsin 53701-2985

Phone: 608.266.4635 | Facsimile: 608.267.8739

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

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

1. Project Address: 1240 VLAS PARK DRIVE  
 Project Title (if any): HENRY VLAS 200 NEW RESTROOM FACILITY

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: DAWN O'ROLEY Company: DPSCHNER ASSOCIATES, INC.  
 Street Address: 241E WASHINGTON AVE STE 112 City/State: MADISON WI Zip: 53703  
 Telephone: (608) 204-0777 Fax: (608) 204-0778 Email: dorooley@dpschnerassociates.com

Project Contact Person: ARON Company: \_\_\_\_\_  
 Street Address: \_\_\_\_\_ City/State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Telephone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_ Email: \_\_\_\_\_

Project Owner (if not applicant): DANE COUNTY PUBLIC WORKS  
 Street Address: 1919 ALLIANT ENERGY CENTER WAY City/State: MADISON WI Zip: 53713  
 Telephone: (608) 515-0890 Fax: (608) 207-1533 Email: nebel@dane-county.com

## 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 AL MARTIN on 11-23-16.  
 (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: Robert J. Nebel Relationship to Property: Dane County Works Director  
 Authorized Signature: [Signature] Date: 11-23-16

December 8, 2016

City of Madison  
Urban Design Commission  
126 S. Hamilton Street  
Madison, WI 53703

Re: Henry Vilas Zoo New Restroom and Concessions Building  
1246 Vilas Park Drive

Dear Members of the Urban Design Commission and Staff:

Enclosed please find our submittal for a new restroom and concessions building to replace the existing restroom and concessions building at the Henry Vilas Zoo. The existing building constructed in 1987 will be deconstructed above grade. The proposed building will be located on the same footprint, centrally located at the zoo with convenient visitor access.

The design intent is to use similar natural materials and building forms that already exist at the Henry Vilas Zoo to bring continuity to the visitor experience while supporting the function of the building itself. The shed roof forms are a continuation of similar roof forms on exhibits and at the Arctic Passage viewing area. The masonry base is an ashlar limestone similar to the masonry at the adjacent picnic pavilions and the Animal Health Center. Fiber cement panel accents are used at entrances and the lightweight clerestory forms. The standing seam metal roof has a finished wood deck that will run continuous from interior to exterior. The roof forms slope upward to the north and west to allow cool north natural daylight to fill the restrooms with overhangs providing shade to the path adjacent the existing picnic pavilions to the north. Operable windows at the clerestory will support the mechanical ventilation systems by allowing summer prevailing winds to pass thru the building entering at low south facing louvers. Exterior light fixtures are recessed within entrance alcove soffits and interior light fixtures will uplight the interior wood ceiling visible thru the clerestory.

Site improvements will continue to direct stormwater towards the swale of the Flamingo Exhibit to the south and improve the existing north picnic pavilion area drainage. The existing asphalt patio on the south side of the building will be replaced with concrete paving while shrubs are cleared to create a picnic area with views to the Flamingo Exhibit. Existing trees will be protected during construction. One birch tree will be removed near the proposed dumpster enclosure with additional birch trees planted near the existing lone birch in the north picnic pavilion area. Natural forms of grasses are proposed in mass adjacent the new building on the east and west as well as in the north picnic pavilion area to replace existing crushed stone. We appreciate your consideration of initial and final approval with any follow up with staff. Construction is scheduled during the off season, beginning in January with completion in May.

Sincerely,



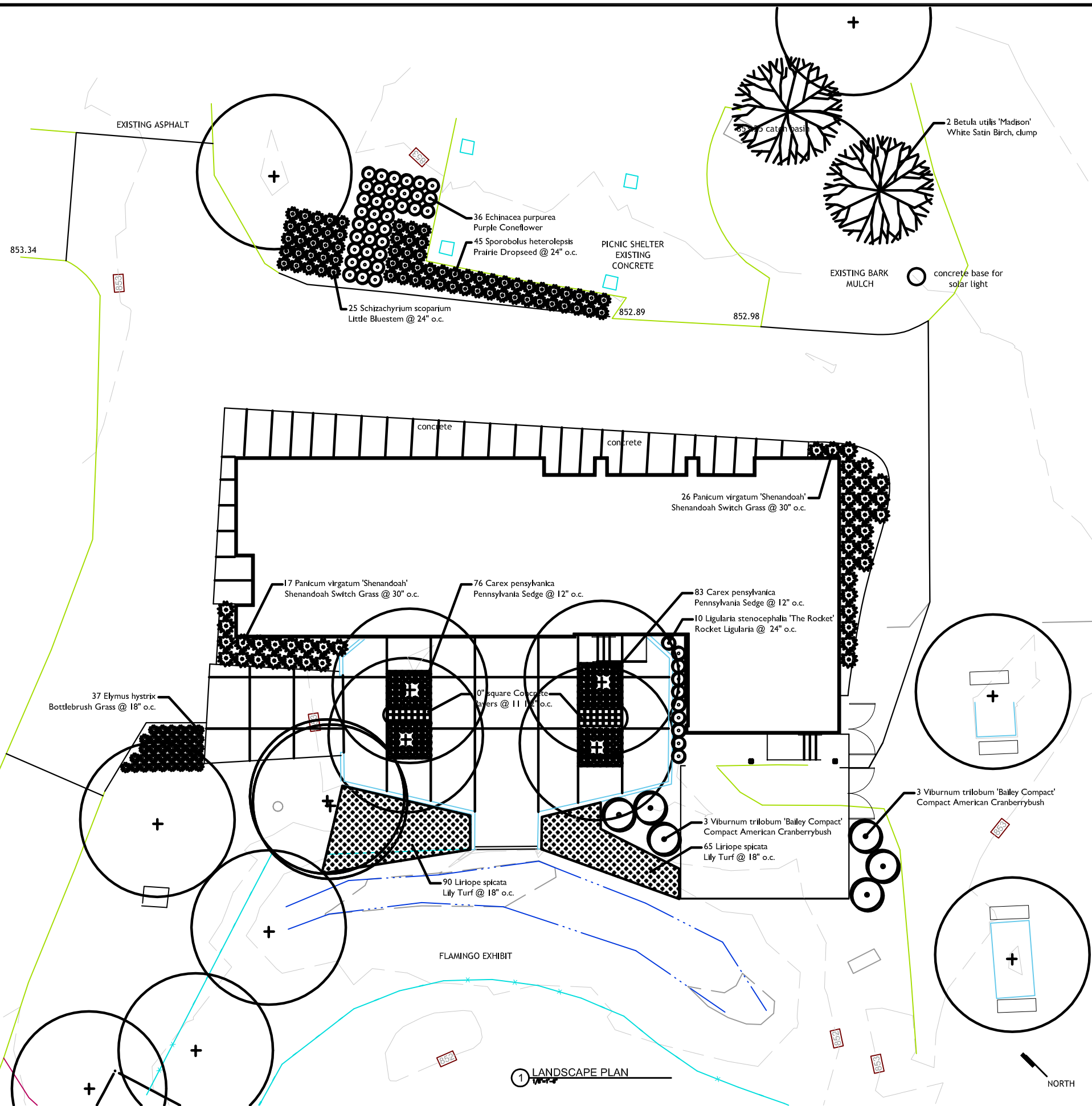
Dawn O'Kroley, AIA, NCARB  
Principal

Architecture  
PlanningDorschner Associates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED

PROJECT  
HENRY VILAS ZOO  
NEW RESTROOM FACILITY  
1246 VILAS PARK DRIVE  
MADISON, WISCONSINDRAWING  
LANDSCAPE PLANDATE  
11.29.16

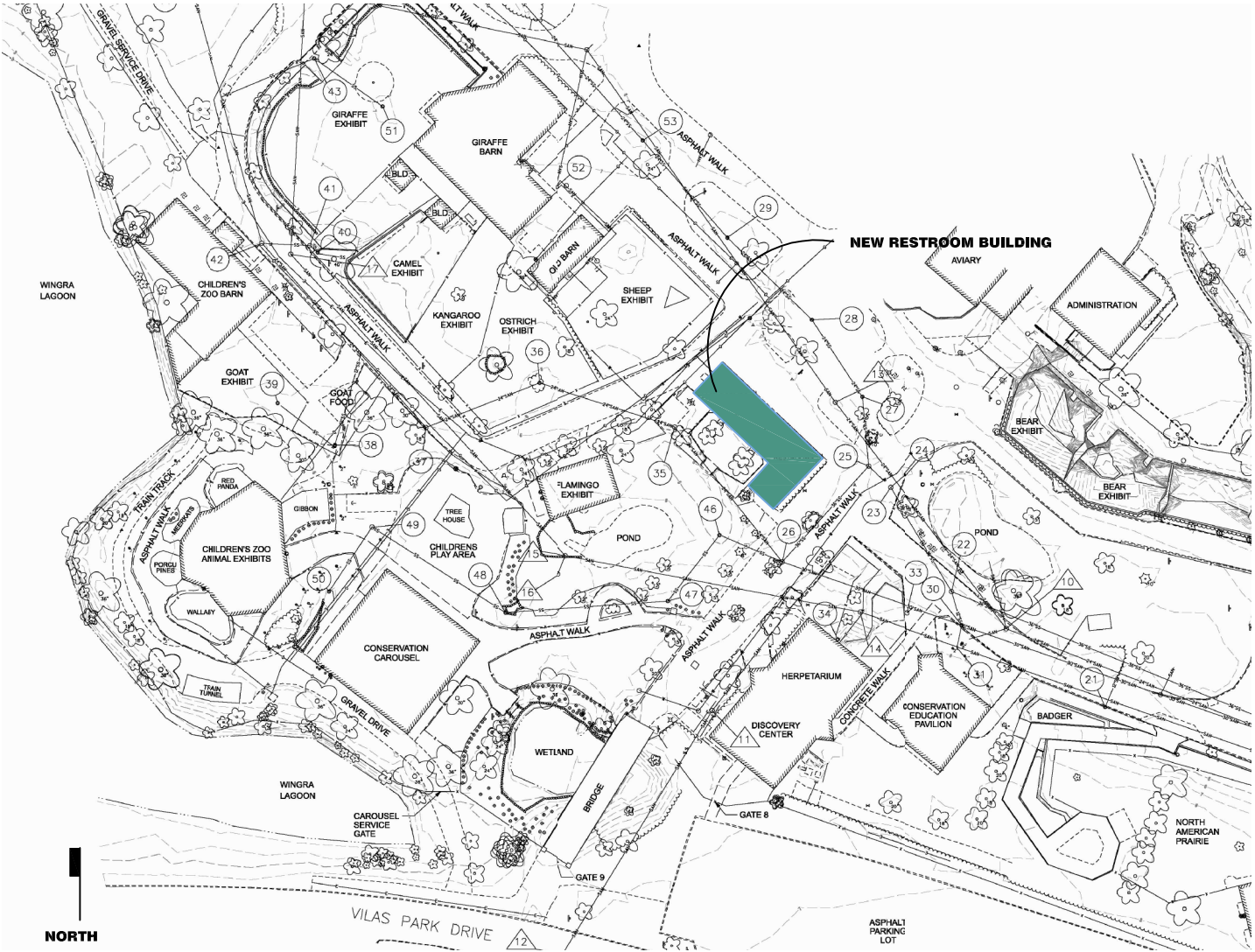
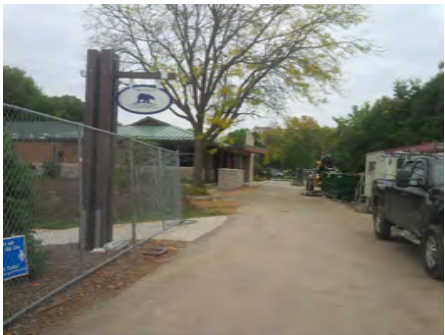
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CONTEXT PHOTOS



EXISTING BUILDING PHOTOS



LEGEND (PROPOSED)

	DISTURBED AREA LIMIT LINE
	NEW BUILDING (FOR REFERENCE)
	SAWCUT LIMITS
	ASPHALT SURFACE REMOVAL AREA
	ASPHALT SURFACE AND BASE REMOVAL
	CONCRETE SURFACE REMOVAL
	CONCRETE SURFACE AND BASE REMOVAL
	EXISTING BUILDING REMOVAL
	TREE REMOVAL



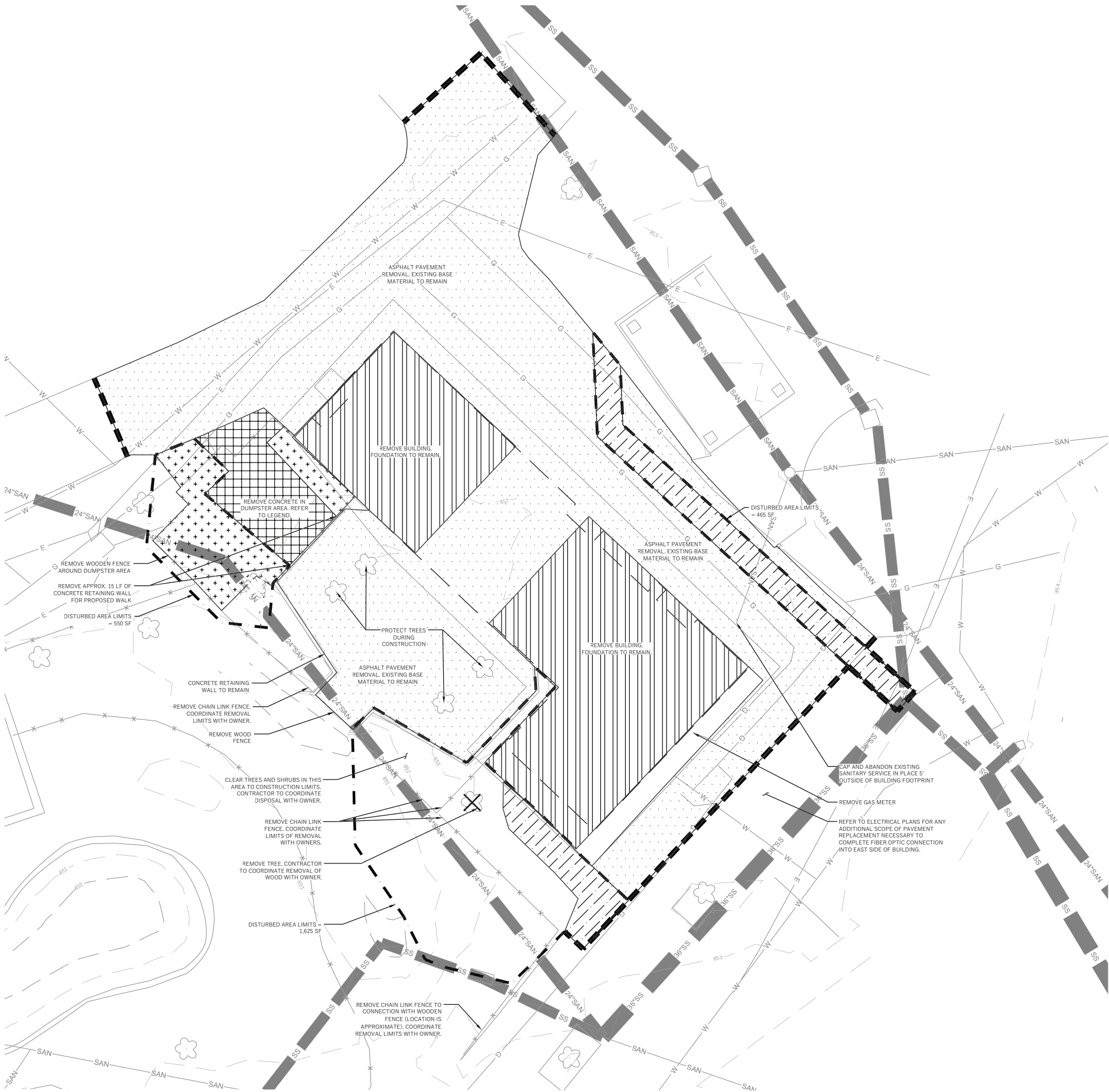
0' 5' 10' 15'  
1" = 10' on 24"x36"  
NTS on 11"x17"

GENERAL NOTES

1. UNDERLYING SITE CONTOURS AND INFORMATION BASED ON TOPOGRAPHIC & UTILITY DATA AS PROVIDED TO MONTGOMERY ASSOCIATES. MONTGOMERY ASSOCIATES SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY ARISE AS A RESULT OF ERRONEOUS OR INCOMPLETE INFORMATION PROVIDED BY OTHERS. CONTRACTOR TO CONFIRM ALL ELEVATIONS, GENERAL DRAINAGE AND EARTHWORK REQUIREMENTS PRIOR TO CONSTRUCTION.
2. THE BENCHMARK LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON THIS PLAN. THE BENCHMARKS SHALL BE VALIDATED BY LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RISK ASSOCIATED WITH BENCHMARK ELEVATIONS UNTIL CONFIRMED.
3. CONTRACTOR TO OBTAIN APPROPRIATE PERMITS FOR STREET OPENINGS & TO WORK WITHIN THE CITY'S LAND IF REQUIRED.
4. MONTGOMERY ASSOCIATES SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER OR CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY REGULATORY AGENCIES.
5. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

DEMOLITION NOTES

1. THIS PLAN INDICATES ITEMS ON THE SITE, NOT INCLUDING INTERNAL BUILDING DEMOLITION, INTENDED FOR DEMOLITION BASED ON THE CURRENT SITE DESIGN THAT HAVE BEEN IDENTIFIED BY A REASONABLE OBSERVATION OF THE EXISTING CONDITIONS THROUGH FIELD SURVEY RECONNAISSANCE, "DIGGERS' HOTLINE" LOCATION, AND GENERAL "STANDARD OF CARE". THERE MAY BE ADDITIONAL ITEMS THAT CAN NOT BE IDENTIFIED BY A REASONABLE ABOVE GROUND OBSERVATION, WHERE NOT INCLUDED WITHIN THE FIELD SURVEY BY OTHERS, OF WHICH THE ENGINEER WOULD HAVE NO KNOWLEDGE OR MAY BE A PART OF ANOTHER DESIGN DISCIPLINE. IT IS THE CONTRACTOR'S / BIDDER'S RESPONSIBILITY TO REVIEW THE PLANS, INSPECT THE SITE AND PROVIDE HIS OWN DUE DILIGENCE TO INCLUDE IN HIS BID WHAT ADDITIONAL ITEMS, IN HIS OPINION, MAY BE NECESSARY FOR DEMOLITION. ANY ADDITIONAL ITEMS IDENTIFIED BY THE CONTRACTOR / BIDDER SHALL BE IDENTIFIED IN THE BID AND REPORTED TO THE OWNER AND ENGINEER OF RECORD. WYSER ENGINEERING TAKES NO RESPONSIBILITY FOR ITEMS ON THE PROPERTY THAT COULD NOT BE LOCATED BY A REASONABLE OBSERVATION OF THE PROPERTY OR OF WHICH THEY WOULD HAVE NO KNOWLEDGE.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
  - 2.1. EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE OWNER AND ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
  - 2.2. VERIFYING UTILITY ELEVATIONS AND NOTIFYING OWNER AND ENGINEER OR ANY DISCREPANCIES. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCIES ARE RESOLVED.
  - 2.3. NOTIFYING ALL UTILITIES PRIOR TO THE REMOVAL OF ANY UNDERGROUND UTILITIES.
  - 2.4. NOTIFYING THE OWNER, DESIGN ENGINEER AND LOCAL CONTROLLING MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION.
3. CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF THESE IMPROVEMENTS.
4. CONTRACTOR SHALL KEEP ALL STREETS AND ADJOINING SHARED ACCESS ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION RELATED DIRT, DUST AND DEBRIS.
5. ALL TREES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS SPECIFICALLY CALLED OUT FOR PROTECTION. ALL TREES TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. STUMPS SHALL BE GROUND TO PROPOSED SUBGRADE.
6. PERFORM TREE PRUNING IN ALL LOCATIONS WHERE PROPOSED PAVEMENT AND / OR UTILITY INSTALLATION ENCRUSCH WITHIN THE EXISTING DRIP LINE OF THE TREES TO REMAIN. ALL TRENCING WITHIN THE EXISTING DRIP LINE OF THE TREES TO REMAIN SHALL BE DONE RADICALLY AWAY FROM THE TRUNK IF ROOTS IN EXCESS OF 1" DIAMETER ARE EXPOSED. ROOTS MUST BE CUT BY REPUTABLE TREE PRUNING SERVICE PRIOR TO ANY TRANSVERSE TRENCHING.
7. CONTRACTOR SHALL COORDINATE PRIVATE UTILITY REMOVAL / ABANDONMENT AND NECESSARY RELOCATIONS WITH RESPECTIVE UTILITY COMPANY. COORDINATION REQUIRED PRIOR TO CONSTRUCTION.
8. ABANDONED / REMOVED ITEMS SHALL BE DISPOSED OF OFF SITE UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
10. CONTRACTOR TO REMOVE EXISTING UTILITY PIPE AND BACKFILL WITH SELECT FILL OR PROVIDE PIPE BACK-FILLING WITHIN BUILDING FOOTPRINT USING "LOW DENSITY CONCRETE / FLOWABLE FILL".
11. GRANULAR BACKFILL MATERIALS ARE REQUIRED FOR FILL UNDER PROPOSED PAVED AREAS.
12. RESTORATION OF THE EXISTING RIGHT-OF-WAYS AS NEEDED ARE CONSIDERED INCIDENTAL AND SHOULD BE PART OF THE COST OF THE UNDERGROUND IMPROVEMENTS, DEMOLITION AND REMOVAL. THIS INCLUDES, BUT IS NOT LIMITED TO, CURB & GUTTER, SIDEWALK, TOPSOIL, SEEDING AND MULCHING.
13. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
14. ALL SITE SIGNAGE SHALL BE SALVAGED FOR REUSE AND SHALL BE THE PROPERTY OF THE OWNER IF REUSE IS NOT NECESSARY ON THIS PROJECT.



Architecture  
Planning

DorschnerAssociates, Inc.  
849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED

BID DOCUMENTS

PROJECT  
HENRY VILAS ZOO  
NEW RESTROOM FACILITY  
1246 VILAS PARK DRIVE  
MADISON, WISCONSIN

DRAWING DEMO PLAN

DATE 11/29/2016

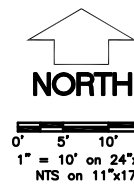
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C100



## LEGEND (PROPOSED)

	BUILDING FOOTPRINT
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	LANDSCAPE MASS OF NATURAL GRASSES - PLANTING PLAN TO FOLLOW



## GENERAL NOTES

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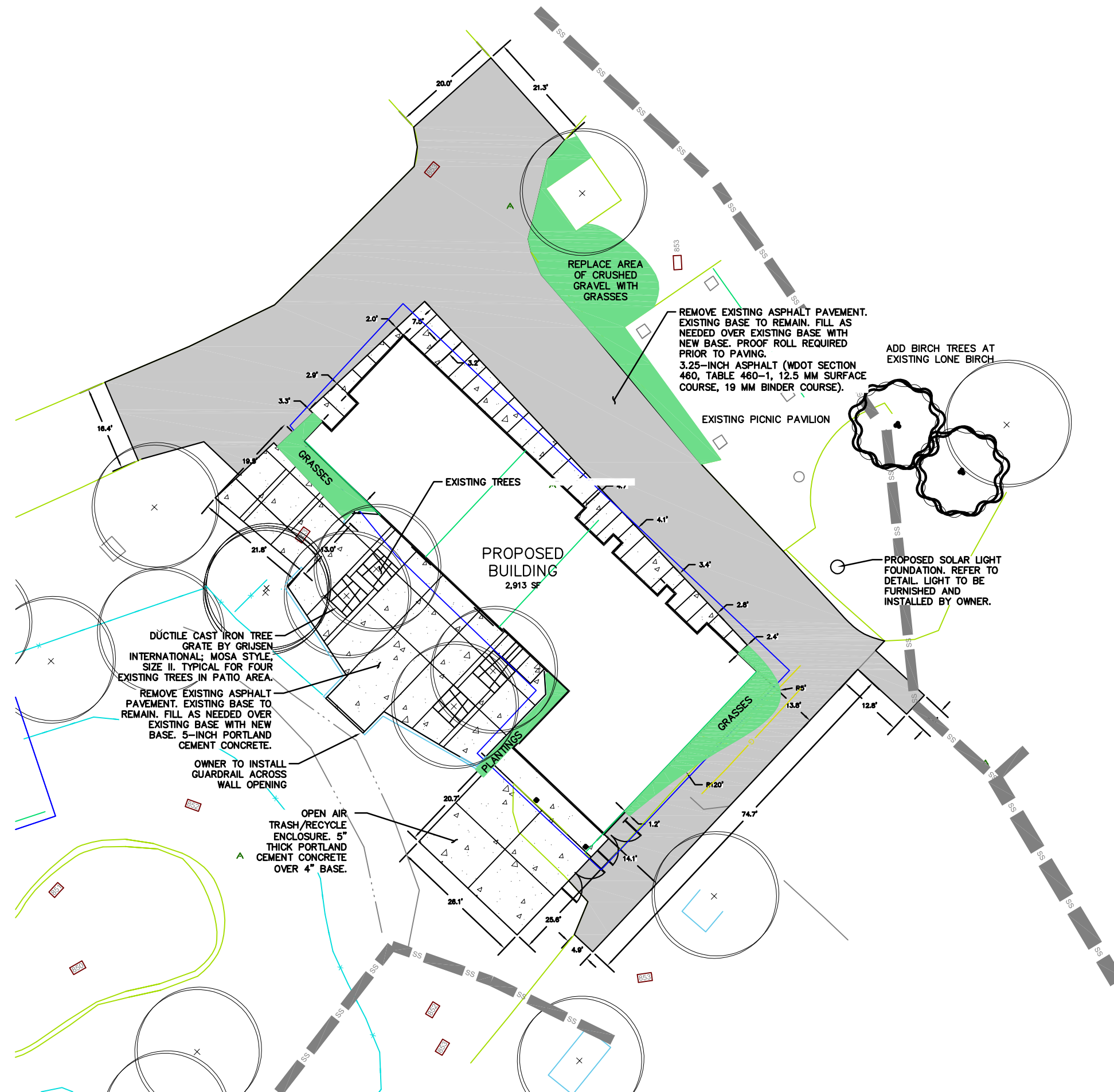
## SITE INFORMATION BLOCK:

SITE ADDRESS: 702 S RANDALL AVENUE  
CONSTRUCTION SITE ACREAGE: 0.29 AC  
USE OF PROPERTY: ZOO/PUBLIC RECREATION

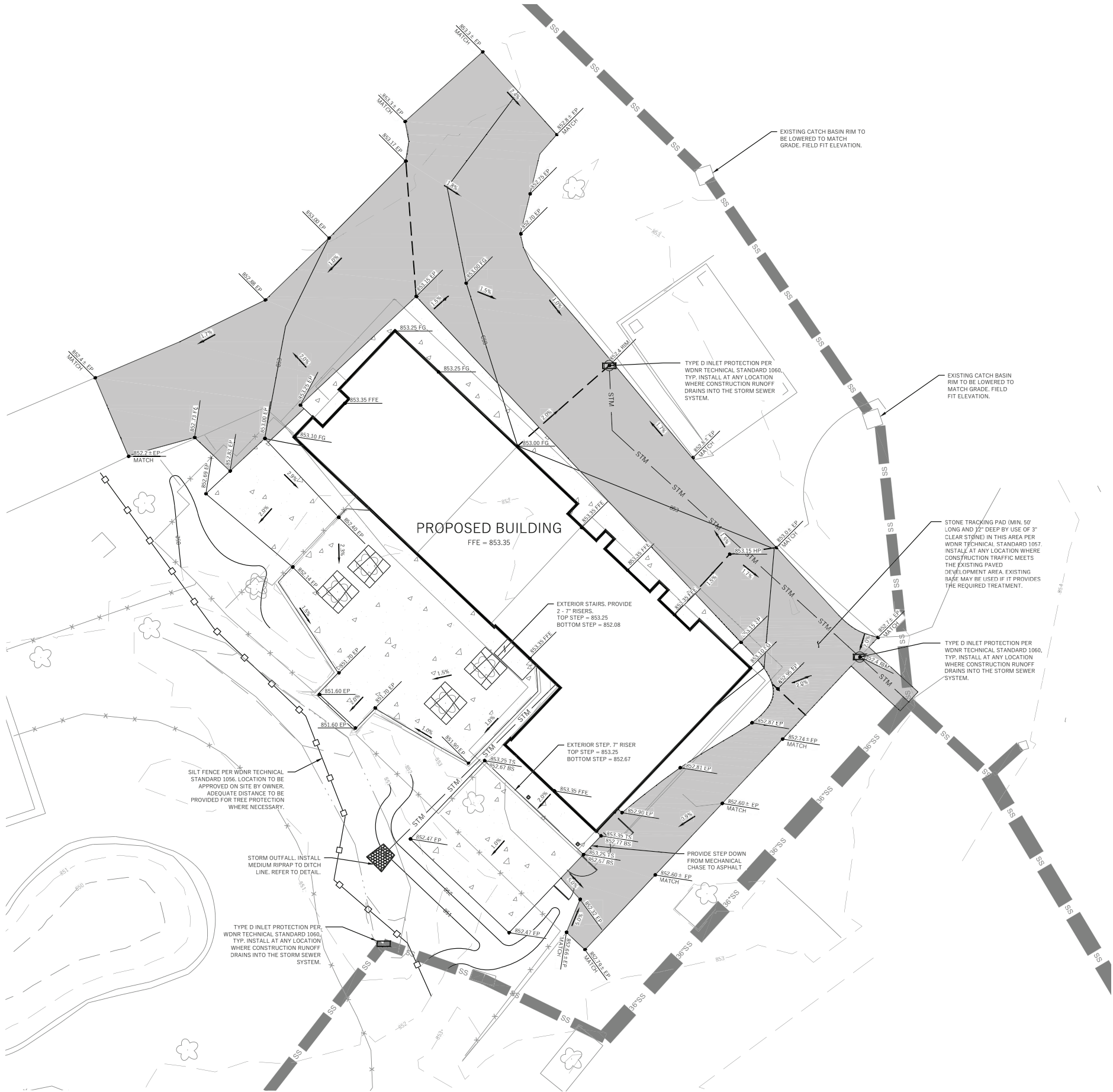
EXISTING IMPERVIOUS SURFACE AREA: 11,280 SQ.FT.  
ROOFTOP: 2,577 SQ.FT.  
PAVED: 8,883 SQ.FT.

IMPERVIOUS SURFACE AREA AFTER IMPROVEMENTS: 10,580 SQ. FT.  
ROOFTOP: 2,913 SQ.FT.  
PAVED: 7,667 SQ.FT.

DISTURBANCE LIMITS: 2,640 SQ. FT.  
IMPERVIOUS SURFACE AREA WITHIN DISTURBANCE LIMITS: 1,125 SQ.FT.  
PERCENT IMPERVIOUS WITHIN DISTURBANCE LIMITS: 42.6%







LEGEND (PROPOSED)

	BUILDING FOOTPRINT
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	PROPOSED STORM SEWER
	INLET PROTECTION
	SPOT GRADE
	DRAINAGE GRADE BREAK
	DRAINAGE ARROW



0' 5' 10' 15'  
1" = 10' on 24"x36"  
NTS on 11"x17"

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CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS (dnr.wi.gov).
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
3. ENGINEER / CITY OF MADISON HAS THE RIGHT TO REQUIRE CONTRACTOR TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY CONTRACTOR MUST NOTIFY THE VILLAGE OF MOUNT HOREB BUILDING INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF ANY SOIL DISTURBANCE ACTIVITIES.
4. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED ONCE PER WEEK AND FOLLOWING EACH RAINFALL EVENT. INSPECTION REPORTING SHALL BE IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION AND SEDIMENT CONTROL PRACTICES IN WORKING ORDER. EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER.
6. DEWATERING PRACTICES SHALL COMPLY WITH TECHNICAL STANDARD 1061.
7. DUST CONTROL SHALL BE MITIGATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
8. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING FINAL GRADING ACTIVITIES.
9. SEED MIX AND RATE SHALL BE, AT A MINIMUM, IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059.
10. CONTRACTOR TO PROVIDE SOLID LID OR METAL PLATE ON ALL OPEN MANHOLES DURING CONSTRUCTION TO MINIMIZE SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM.
11. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE MUNICIPAL EROSION CONTROL PERMIT AND FOLLOWING ALL APPLICABLE REQUIREMENTS.

GRADING, SEEDING & RESTORATION NOTES

1. ALL GRADES SHOWN ARE FINAL FINISHED SURFACE GRADES.
2. AREAS TO BE SEEDED SHALL HAVE A MINIMUM 6 INCHES TOPSOIL UNLESS OTHERWISE NOTED.
3. RESTORATION SHALL OCCUR AS SOON AS PRACTICABLE AFTER THE DISTURBANCE, WITHIN 7 DAYS OF TOPSOILING.
4. AREAS NOT RESTORED WITH EROSION MATTING OR OTHER STABILIZATION MEASURES SHALL BE STABILIZED WITH MULCH.
5. APPLY ANIONIC POLYMER TO DISTURBED AREAS IF EROSION BECOMES PROBLEMATIC.
6. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES AND PROVIDE TEMPORARY SEEDING ON STOCKPILES WHICH ARE TO REMAIN IN PLACE FOR MORE THAN 7 DAYS.
7. MULCH SHALL BE WEED-FREE STRAW AND SHALL BE INSTALLED AT THE RATE OF 2 TONS PER ACRE PER SECTION 627 OF "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" (WISDOT 2014)
8. PERMANENT SEEDING SHALL NOT OCCUR BETWEEN SEPTEMBER 15TH AND APRIL 15TH. ALTERNATE SEEDING/PLANTING METHODS AND/OR EROSION PROTECTION MAY BE NECESSARY FOR SEEDING/PLANTING THAT OCCURS DURING THAT TIME. COORDINATE WITH THE OWNER AS NECESSARY.
9. TEMPORARY STABILIZATION SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING OPTIONS:
  - a. TEMPORARY SEEDING CONSISTING OF ANNUAL RYE GRASS APPLIED AT A RATE OF 1.5 LBS PER 1000 SQUARE FEET.
  - b. WISDOT PAL CLASS I TYPE B URBAN EROSION CONTROL MAT.
10. ALL SLOPES EXCEEDING 4:1 SHALL BE STABILIZED WITHIN 2-WEEK OF DISTURBANCE WITH TEMPORARY SEEDING AND CLASS I TYPE B (URBAN) EROSION MATTING AND ALL DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE B MATTING.

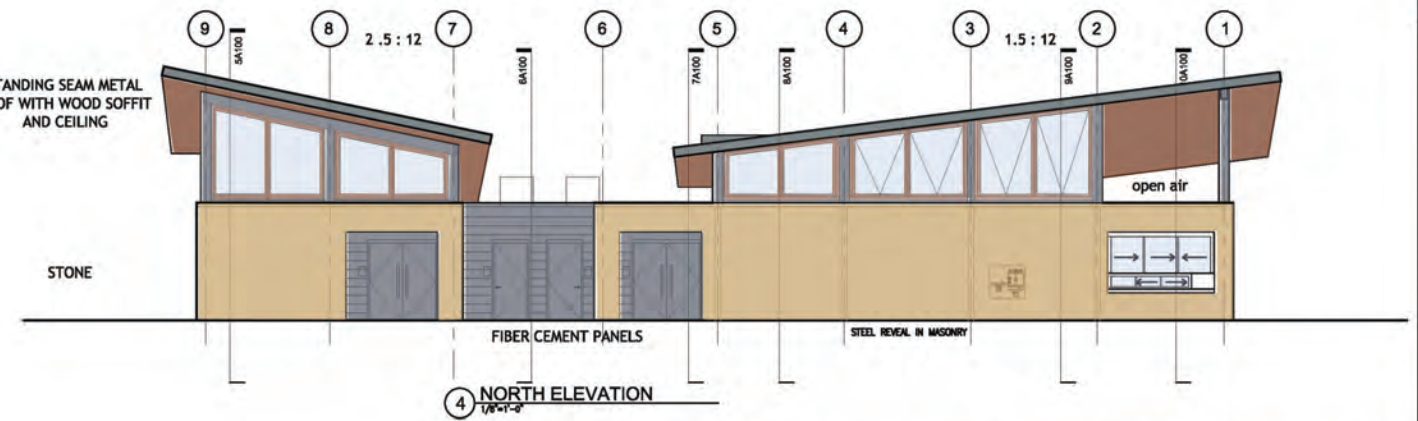
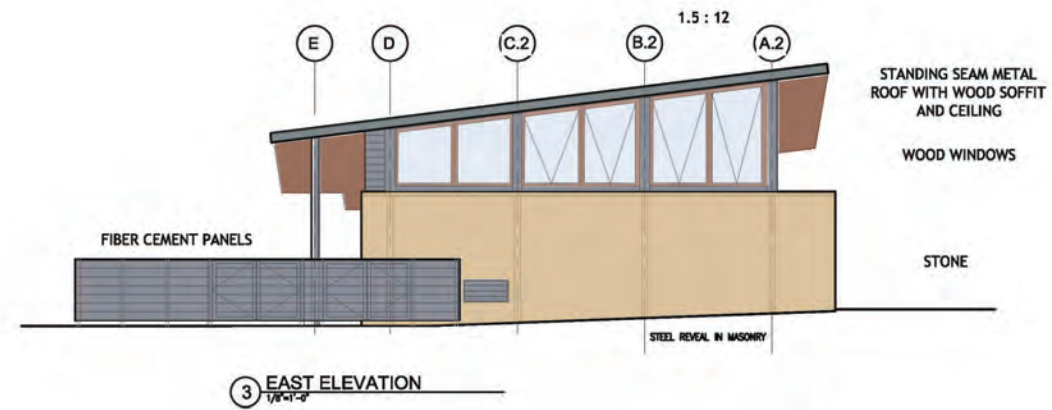
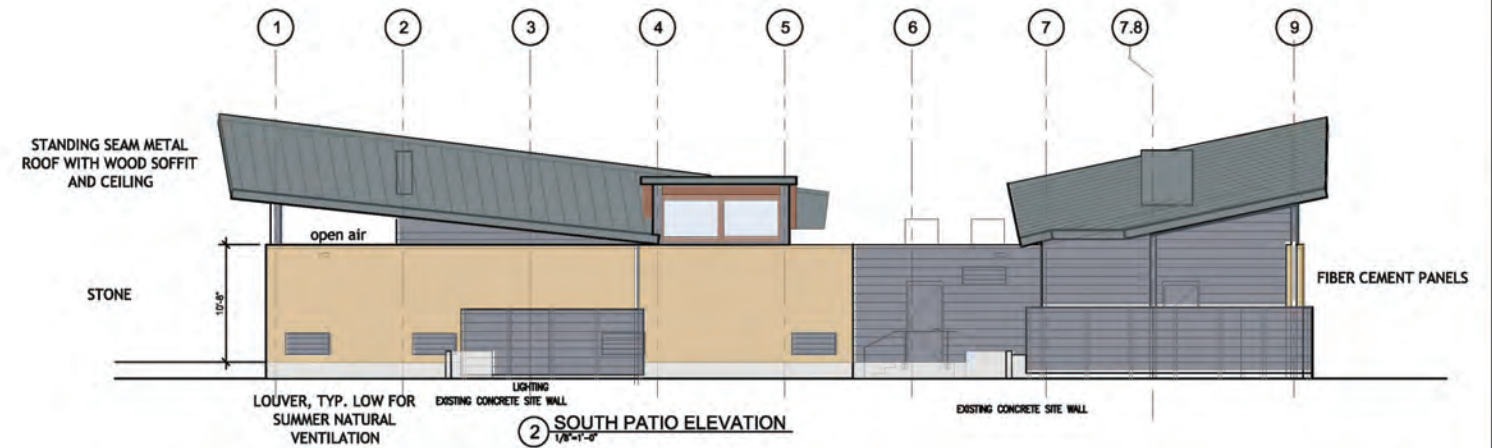
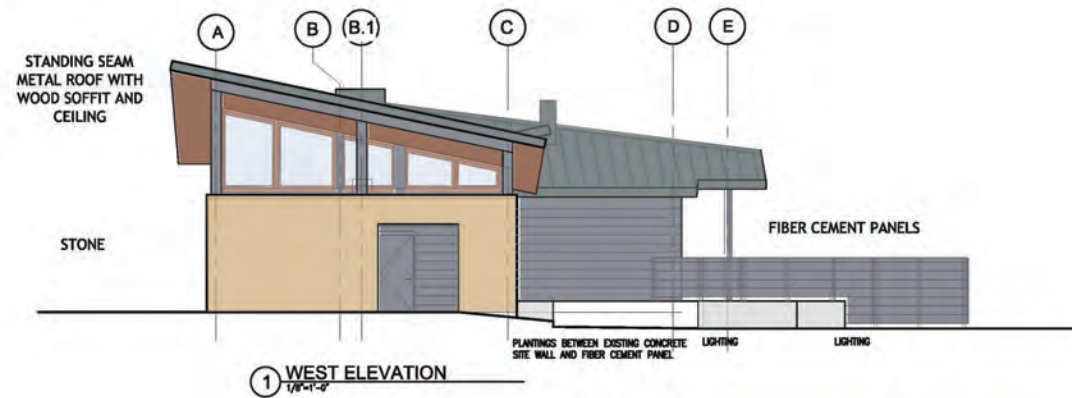
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Planning

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Madison, Wisconsin 53703

ISSUED



**PROJECT**  
HENRY VILAS ZOO  
NEW RESTROOM FACILITY  
1246 VILAS PARK DRIVE  
MADISON, WISCONSIN

**DRAWING**  
EXTERIOR ELEVATIONS,  
BUILDING SECTIONS

**DATE**  
11.29.16

A100

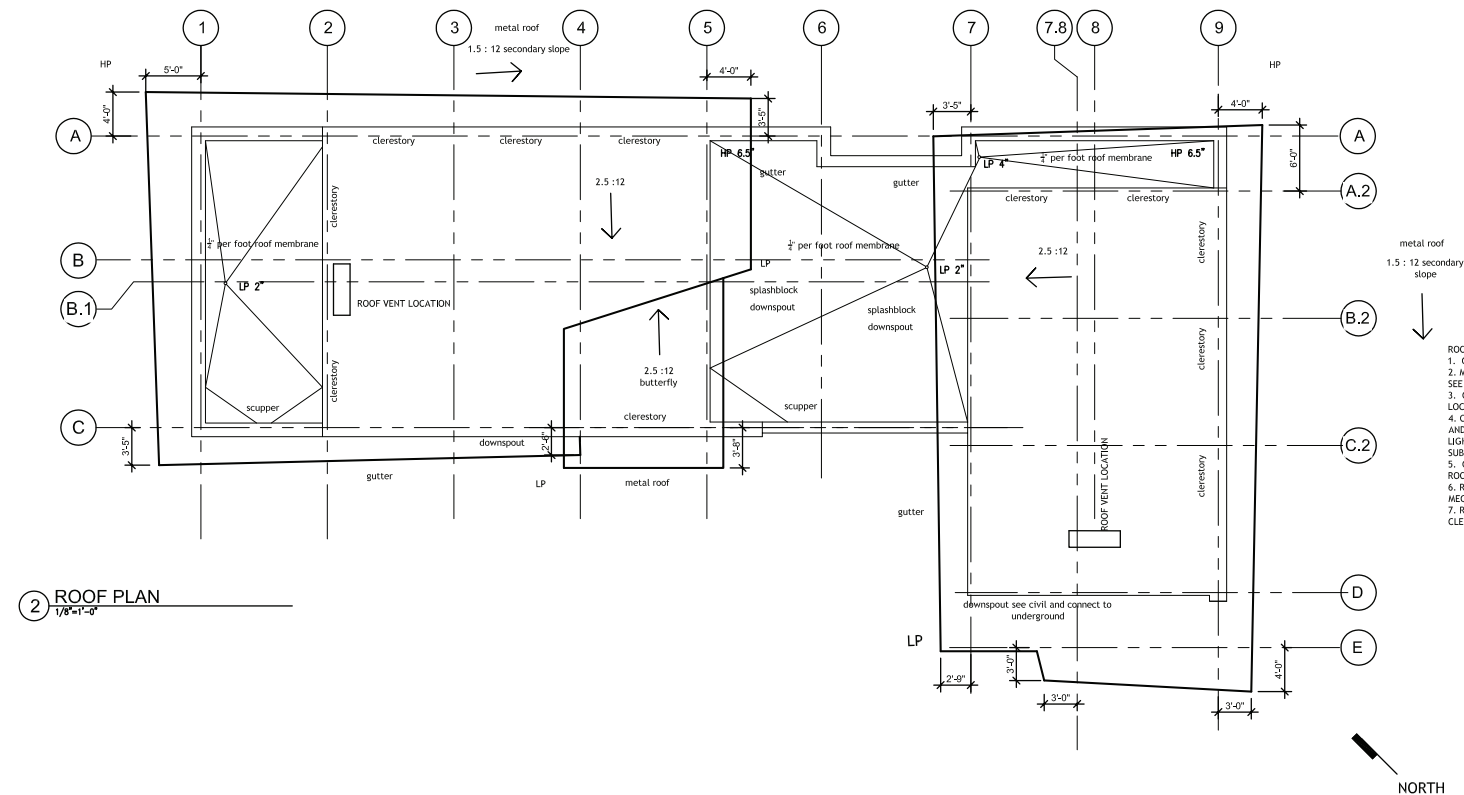
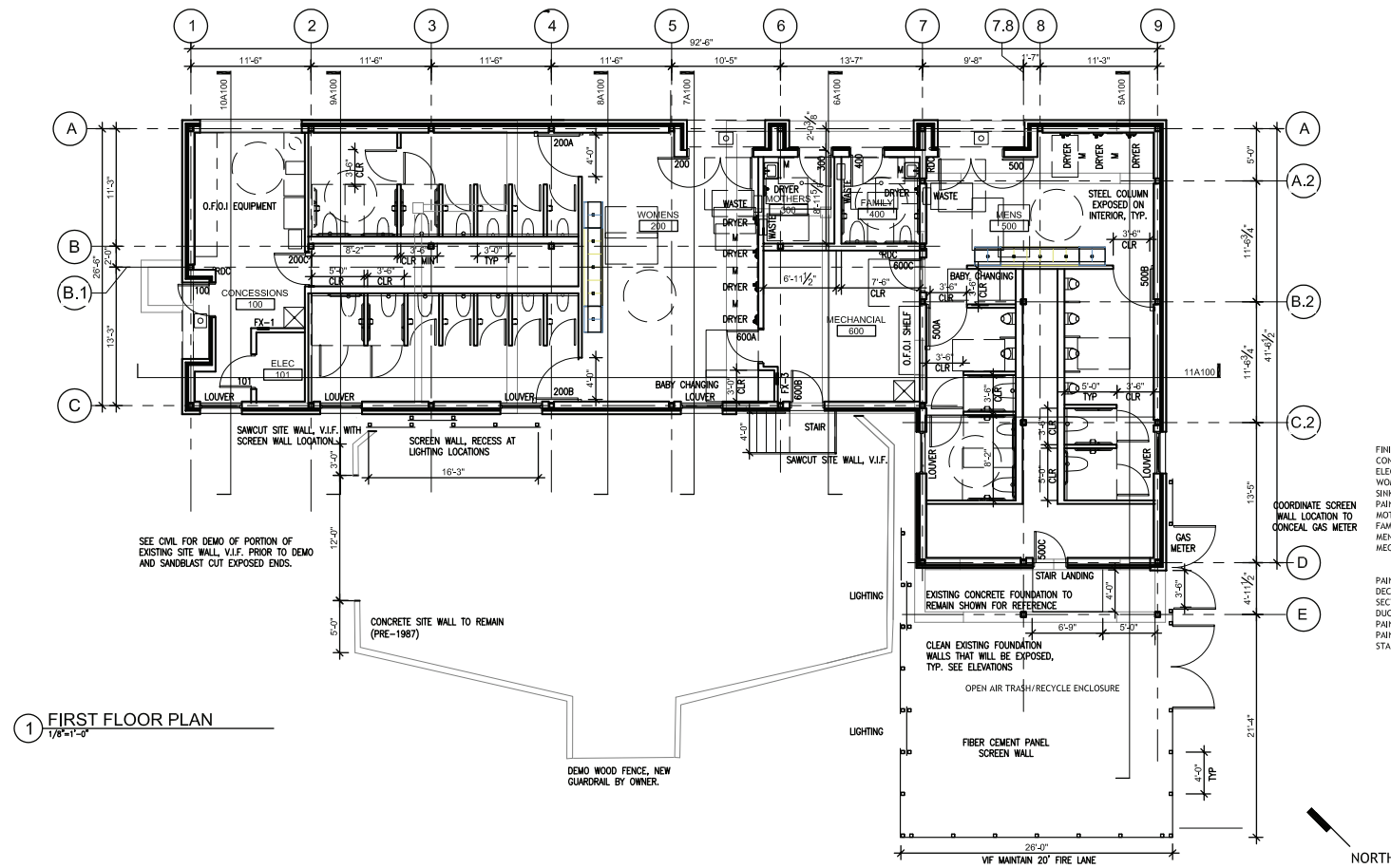


Architecture  
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849 E. Washington Ave., Ste 112  
Madison, Wisconsin 53703

ISSUED

PROJECT  
HENRY VILAS ZOO  
NEW RESTROOM FACILITY  
1246 VILAS PARK DRIVE  
MADISON, WISCONSINDRAWING  
FIRST FLOOR PLAN  
AND ROOF PLANDATE  
11.29.16

A200



GENERAL NOTES:

1. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
2. ELECTRICAL CONTRACTOR SHALL REVIEW ALL OTHER TRADES DOCUMENTS AND COORDINATE LOCATION OF MOTOR, LIGHTS & DEVICES.

KEYED NOTES:

1. PROVIDE NEW 200 AMP 120/240-VOLT SINGLE PHASE SERVICE TO NEW METER/METER SOCKET.
2. PROVIDE (2) 3" HUPVC CONDUITS WITH FULL WIRE FOR LOW VOLTAGE WIRING REQUIREMENTS; STUB INTO DATA CLOSET ROOM #10.
3. REWIRE EXISTING RECEPTACLES TO CIRCUITS SHOWN.
4. STUB CONDUITS UP INTO IT CLOSET.
5. PROVIDE (2) 3" HUPVC CONDUITS, ONE EMPTY WITH FULL WIRE, THE OTHER SEGMENTED WITH INNER DUCT AND CONTAINING (1) 25 PAIR COPPER ARM CABLE AND (1) 24 STRAND MM OM4 FIBER OPTIC CABLE.
6. EXISTING HAND HOLD IN FRONT OF GLACIER GRILL.
7. EXTEND 25 PAIR CABLE AND 24 STRAND OM4 TO GLACIER GRILL MDF USING EXISTING CONDUIT. TERMINATE 25 PAIR ON 110 BLOCK ADJACENT TO EXISTING VOICE FIELD. TERMINATE 24 STRAND OM4 ON PATCH PANEL IN EXISTING TELECOM RACK.

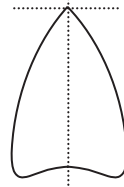
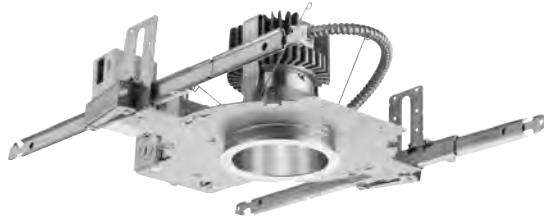
HAND HOLE DETAIL  
NOT TO SCALE

1 SITE PLAN - ELECTRICAL  
1/8"=1'-0"





Luminaire Type:  
Catalog Number  
(autopopulated):



Gotham Architectural Downlighting  
LED Downlights

## 4" Evo® Downlight

Solid-State Lighting



### FEATURES

#### OPTICAL SYSTEM

- Self-flanged or flangeless semi-specular, matte-diffuse or specular finishing trim
- Patented Bounding Ray™ optical design (U.S. Patent No. 5,800,050)
- 45° cutoff to source and source image
- Top-down flash characteristic
- Polycarbonate lens integral to light engine

#### MECHANICAL SYSTEM

- 16-gauge galvanized steel construction; maximum 1-1/2" ceiling thickness
- Telescopic mounting bars maximum of 32" and minimum of 15", preinstalled, 4" vertical adjustment
- Toolless adjustments post installation
- Junction box capacity: 8 (4 in, 4 out ) 12AWG rated for 90°C
- Light engine and driver accessible through aperture
- Injection molded mud ring included with flangeless trims. Ships separately. Installs independently of the mounting frame to reduce cracks in plaster due to vibration.

#### ELECTRICAL SYSTEM

- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- Tested according to LM-79 and LM-80 standards
- Overload and short circuit protected
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional

#### LISTINGS

- Fixtures are CSA certified to meet US and Canadian standards; wet location, covered ceiling

#### WARRANTY

- 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

Note: Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25° C.



A+ Capable options indicated  
by this color background.

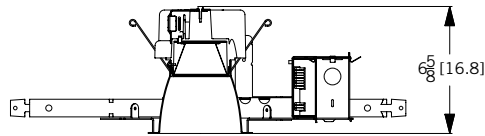
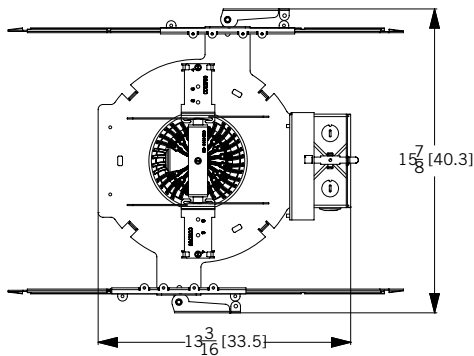
#### EXAMPLE: EVO 35/10 4AR MWD LSS MVOLT EZ1

Series	Color temperature	Nominal lumen values	Aperture/Trim color	Trim Style	Distribution	Finish	Voltage
<b>EVO</b>	27/ 2700 K <b>30/</b> 3000 K 35/ 3500 K 40/ 4000 K	<b>07</b> 750 lumens <b>10</b> 1000 lumens <b>15</b> 1500 lumens <b>20</b> 2000 lumens <b>25</b> 2500 lumens <b>30</b> 3000 lumens	<b>4AR</b> Clear <b>4PR</b> Pewter <b>4WTR</b> Wheat <b>4GR</b> Gold <b>4WR<sup>1</sup></b> White <b>4BR<sup>1</sup></b> Black <b>4WRAMF<sup>1</sup></b> White anti-microbial	(blank) <b>Self-flanged</b> <b>FL</b> Flangeless	<b>MD</b> Medium (0.9 s/mh) <b>MWD</b> Medium wide (1.0 s/mh) <b>WD</b> Wide (1.2 s/mh)	<b>LSS</b> Semi-specular <b>LD</b> Matte-diffuse <b>LS</b> Specular	<b>MVOLT</b> <b>120</b> <b>277</b> <b>347<sup>2</sup></b>

Driver <sup>3</sup>		Options			
<b>EZ10</b>	eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	<b>SF</b>	Single fuse. Specify 120V or 277V.	<b>BGTD</b>	Bodine generator transfer device. Specify 120V or 277V.
<b>EZ1</b>	eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	<b>TRW<sup>6</sup></b>	White painted flange	<b>CRI90</b>	High CRI (90+). Specify 120V or 277V.
<b>EZB</b>	eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	<b>TRBL<sup>7</sup></b>	Black painted flange	<b>CP<sup>10</sup></b>	Chicago plenum
<b>EDAB</b>	eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	<b>EL<sup>8</sup></b>	Emergency battery pack with integral test switch	<b>RRL</b>	RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to <a href="#">RRL</a> for complete nomenclature.
<b>EDXB</b>	eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor. Refer to <a href="#">DMXR Manual</a> .	<b>ELR<sup>8</sup></b>	Emergency battery pack with remote test switch		
<b>EXA1</b>	XPoint Wireless, eldoLED 0-10V ECOdrive. Linear dimming to 1%. Refer to XPoint tech sheet.	<b>NPS80EZ<sup>5</sup></b>	nLight® dimming pack controls 0-10V eldoLED drivers.		
<b>EXAB</b>	XPoint Wireless, eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. Refer to XPoint tech sheet.	<b>NPS80EZER<sup>5,9</sup></b>	nLight® dimming pack controls 0-10V eldoLED drivers. ER controls fixtures on emergency circuit.		
<b>ECOS2<sup>4,5</sup></b>	Lutron® Hi-Lume® 2-wire forward-phase driver. Minimum dimming level 1%. Minimum lumen 1000/Maximum lumen 3000.				
<b>ECOS3<sup>4,5</sup></b>	Lutron® Hi-Lume® 3-wire or EcoSystem® dimming driver. Minimum dimming level 1%. Minimum lumen 1000/Maximum lumen 4500.				

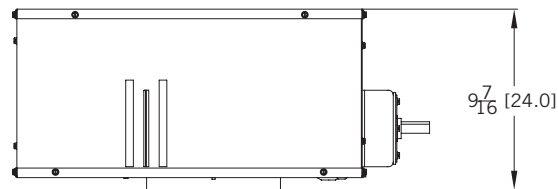
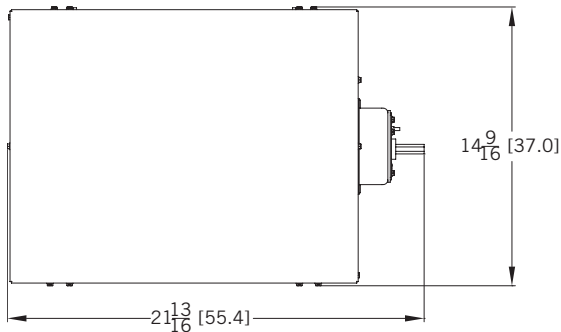
DIMENSIONAL DATA

All dimensions are inches (centimeters) unless otherwise noted.



Aperture: 4-5/16" (11)  
Ceiling Opening: 5-1/8" (13) self-flanged  
5-1/4" (13.3) flangeless  
Overlap trim: 5-7/16" (13.8)

**DIMENSIONS FOR CHICAGO PLENUM**



ELECTRICAL

WATTAGE CONSUMPTION MATRIX			
LUMENS	LM ACTUAL	WATTAGE	LUMENS per WATT
750	849	10.3	82.4
1000	1,189	12.8	92.9
1500	1,509	17.3	87.2
2000	2,109	23.5	89.6
2500	2,576	28.9	89.1
3000	3,112	36.9	84.3

EMERGENCY LUMEN OUTPUT		
LUMENS	WATTAGE	INITIAL OUTPUT
750	9.6	1000
1000	9.6	1000
1500	9.6	1000
2000	9.6	1000
2500	9.6	1000
3000	9.6	1000

ACCESSORIES

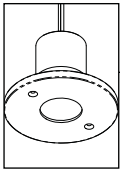
ACCESSORIES order as separate catalog numbers (shipped separately)

<b>SCA4</b>	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to <a href="#">TECH-190</a> .
<b>CTA4-8 YK</b>	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height.
<b>ISD BC</b>	0-10V wallbox dimmer. Refer to <a href="#">ISD-BC</a> .

NOTES

ORDERING NOTES	
1. Not available with finishes.	8. For dimensional changes, refer to <a href="#">TECH-140</a> . Access above ceiling required. Not available with 347V.
2. Not available with EL or ELR options.	9. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
3. Refer to <a href="#">TECH-240</a> for compatible dimmers.	10. ELR not available. CP, ECOS2/ECOS3 with EL-2000 lumen max.
4. Not available with nLight® and XPoint options.	
5. Specify voltage. ECOS2 not available in 277V.	
6. Not available with white reflector. Not applicable with FL option.	
7. Not available with black reflector. Not applicable with FL option.	





**BKSSL**  
SOLID STATE LIGHTING

the power of  
dimming with **adjust-e-lume**  
TECHNOLOGY

# CORE DRILL VERSA STAR™

<b>PROJECT:</b>	
<b>TYPE:</b>	<b>TYPE E - IN FENCE</b>
<b>CATALOG NUMBER:</b>	
<b>SOURCE:</b>	
<b>NOTES:</b>	

## CATALOG NUMBER LOGIC

**Example:** **S** - **CD-VS** - **LED** - **e65** - **NSP** - **A9** - **MAC** - **12** - **11**

**Material** \_\_\_\_\_  
**Blank** - Aluminum  
**B** - Brass  
**S** - Stainless Steel

**Series** \_\_\_\_\_  
**CD-VS** - Core Drill Versa Star™

**Source** \_\_\_\_\_  
**LED** - 'e' Technology with Integral Dimming Driver (See Specifications for Dimming)  
*Designed for use with remote 12VAC BKSSL® transformers. Requires magnetic Low Voltage dimmer.*

**LED Type** \_\_\_\_\_  
**e64** - 7WLED/2.7K  
**e65** - 7WLED/3K  
**e66** - 7WLED/4K  
**e74** - 7WLED/Amber

**Optics\*** \_\_\_\_\_  
**NSP** - Narrow Spot (Red Indicator)  
**SP** - Spot (Green Indicator)  
**MFL** - Medium Flood (Yellow Indicator)  
**WFL** - Wide Flood (Blue Indicator)

**Adjust-e-Lume® Output Intensity** (Choose factory setting) \_\_\_\_\_  
**A9** (Standard), **A8**, **A7**, **A6**, **A5**, **A4**, **A3**, **A2**, **A1**

**Finish** \_\_\_\_\_

Aluminum Finish			Brass Finish		Premium Finish					
Powder Coat Color	Satin	Wrinkle	Machined	MAC	ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
Bronze	BZP	BZW	Polished	POL	AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
Black	BLP	BLW	Mitique™	MIT	AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
White (Gloss)	WHP	WHW	Stainless Finish		BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
Aluminum	SAP	—	Machined	MAC	BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
Verde	—	VER	Polished	POL	BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
			Brushed	BRU <i>interior use only.</i>	CAP	Clear Anodized Powder	OCP	Old Copper	Also available in RAL Finishes See submittal SUB-1439-00	

**Lens Type** \_\_\_\_\_  
**12** - Soft Focus Lens  
**13** - Rectilinear Lens

**Shielding** \_\_\_\_\_  
**11** - Honeycomb Baffle

DRIVER DATA	Input Volts	InRush Current	Operating Current	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-10°F-130°F

## LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e64	2700K	7.0	80
e65	3000K	7.0	80
e66	4000K	7.0	80
e74	Amber (590nm)	7.0	~

## L70 DATA

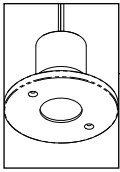
Minimum Rated Life (hrs.) 70% of initial lumens(L70)
50,000
50,000
50,000
50,000

## \*OPTICAL DATA

Beam Type	Angle	e66 CBCP	Visual Indicator
Narrow Spot	13°	6889	Red Dot
Spot	15°	5225	Green Dot
Medium Flood	23°	1984	Yellow Dot
Wide Flood	31°	1300	Blue Dot

<b>B-K LIGHTING</b>	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	RELEASED 06-03-16	DRAWING NUMBER SUB000937
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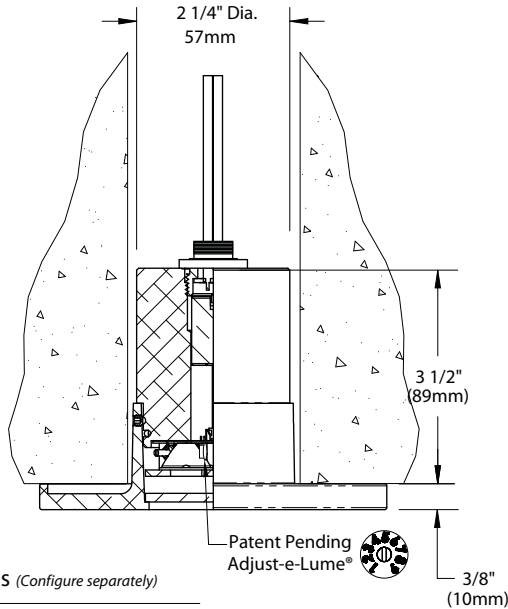
the power of  
dimming with **adjust-e-lume**<sup>®</sup>  
TECHNOLOGY

# CORE DRILL VERSA STAR<sup>™</sup>

PROJECT:

TYPE: **TYPE E - IN FENCE**

## SIDE VIEW

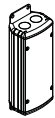


Accessories (Configure separately)

## Remote options:

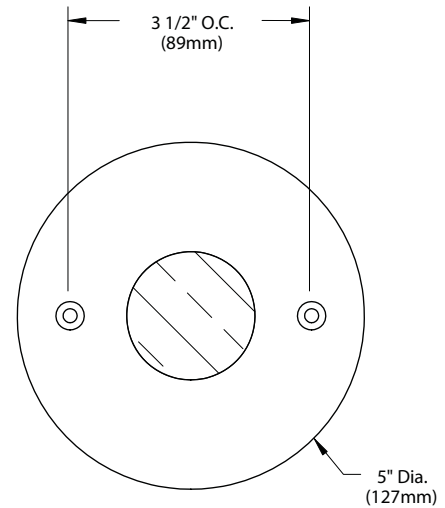


TR Series



UPMRM<sup>™</sup>

## FACEPLATE DETAIL



All dimensions indicated on this submittal are nominal.  
Contact Technical Sales if you require more stringent specifications.

## SPECIFICATIONS

### GreenSource Initiative<sup>™</sup>

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult [www.bklighting.com/greensource](http://www.bklighting.com/greensource) for program requirements.

### Materials

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

### Core Drill

Allows for mounting into existing structures that will not easily accept a standard box. 2-1/2" dia. hole required for slip fit.

### Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. High temperature, silicone 'O' Ring provides water-tight seal. Provided with hard-coat (Type III) black anodize finish for maximum corrosion resistance. Weather-tight cable connector with 5'0", 18Ga., 2 wire low voltage cable.

### Faceplate

Fully machined from solid billet. Countersunk holes provide for flush hardware mounting (by others). Accommodates [1] lens or louver media.

### Lens

Shock resistant, tempered, glass lens is factory adhered to faceplate and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

### BKSSL<sup>®</sup>

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR<sup>®</sup> lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

### Dimming

Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL<sup>®</sup> Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

### Optics

Interchangeable OPTIKIT<sup>™</sup> modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood = Blue.

### Adjust-e-Lume<sup>®</sup> (Pat. Pending)

Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

### Remote Transformer

For use with 12VAC BKSSL<sup>®</sup> remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

### Wiring

Teflon<sup>®</sup> coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard. Anti-Siphon Valve (ASV<sup>™</sup>) prevents "wicking" through conductor insulation.

### Hardware

Tamper-resistant, stainless steel hardware. Mounting hardware by others.

### Finish

StarGuard<sup>®</sup>, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

### Warranty

5 year limited warranty.

### Certification and Listing

ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for installation in combustible materials (Type Non-IC). Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP65 Rated. Made in USA.



\*Teflon is a registered trademark of DuPont Corporation.

\*Energy Star is a registered trademark of the United States Environmental Protection Agency.

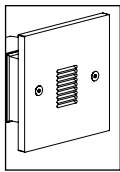
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RELEASED  
06-03-16

DRAWING NUMBER  
SUB000937





**BKSSL**  
SOLID STATE LIGHTING



**TYPE G - PATIO**

# LOUVERED SQUARE STEP STAR™

<b>PROJECT:</b>	
<b>TYPE:</b>	
<b>CATALOG NUMBER:</b>	
<b>SOURCE:</b>	
<b>NOTES:</b>	

## CATALOG NUMBER LOGIC

**Example:** **B** - **SQL** - **LED** - **e102** - **A3** - **MAC** - **D**

**Material**  
**Blank** - Aluminum  
**B** - Brass  
**S** - Stainless Steel

**Series**  
**SQL** - Louvered Square Step Star™

**Source**  
**LED** - 'e' Technology with Integral Dimming Driver (See Specifications for Dimming)  
*Designed for use with remote 12VAC BKSSL® transformers. Requires magnetic Low Voltage dimmer.*

**LED Type**  
**e100** - 5WLED/2.7K  
**e101** - 5WLED/3K  
**e102** - 5WLED/4K  
**e103** - 5WLED/Amber

**Adjust-e-Lume® Output Intensity** (Choose factory setting)  
**A9** (Standard) **A8, A7, A6, A5, A4, A3, A2, A1**

**Finish**

Aluminum Finish			Brass Finish		Premium Finish									
Powder Coat Color	Satin	Wrinkle	Machined	MAC	ABP		Antique Brass Powder		CMG	Cascade Mountain Granite		RMG	Rocky Mountain Granite	
Bronze	BZP	BZW	Polished	POL	AMG		Aleutian Mountain Granite		CRI	Cracked Ice		SDS	Sonoran Desert Sandstone	
Black	BLP	BLW	Mitique™	MIT	AQW		Antique White		CRM	Cream		SMG	Sierra Mountain Granite	
White (Gloss)	WHP	WHW	Stainless Finish		BCM		Black Chrome		HUG	Hunter Green		TXF	Textured Forest	
Aluminum	SAP	—	Machined	MAC	BGE		Beige		MDS	Mojave Desert Sandstone		WCP	Weathered Copper	
Verde	—	VER	Polished	POL	BPP		Brown Patina Powder		NBP	Natural Brass Powder		WIR	Weathered Iron	
			Brushed	BRU <i>Interior use only.</i>	CAP		Clear Anodized Powder		OCP	Old Copper		Also available in RAL Finishes See submittal SUB-1439-00		

**Louver**  
**D** - Rectangular, 30°

DRIVER DATA	Input Volts	InRush Current	Operating Current	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	500mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

## LM79 DATA

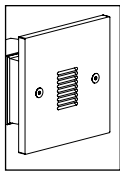
BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e100	2700K	5.0	80
e101	3000K	5.0	80
e102	4000K	5.0	80
e103	Amber (590nm)	5.0	~

## L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens(L70)
50,000
50,000
50,000
50,000

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SOLID STATE LIGHTING

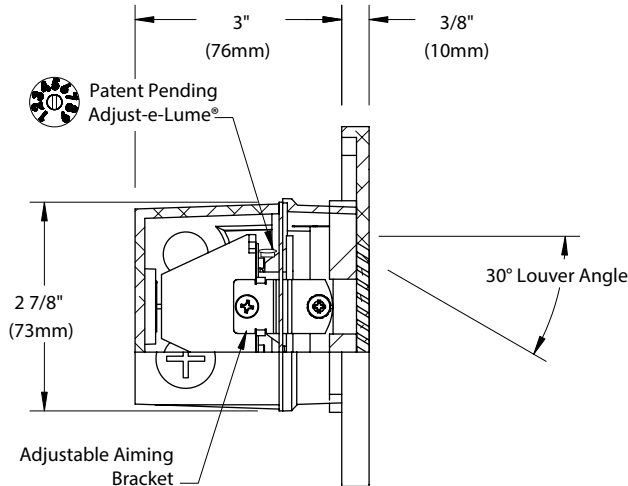


# LOUVERED SQUARE STEP STAR™

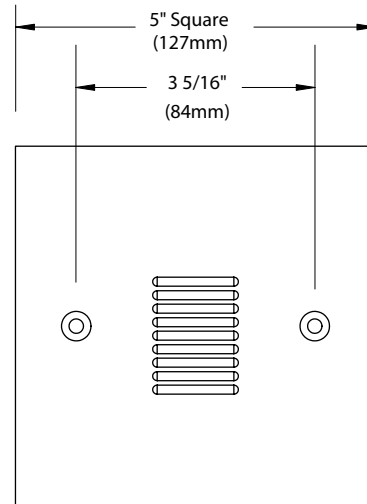
PROJECT:

TYPE:

## SIDE VIEW



## FACEPLATE DETAIL

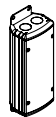


Accessories (Configure separately)

Remote options:



TR Series



UPMRM™

All dimensions indicated on this submittal are nominal.  
Contact Technical Sales if you require more stringent specifications.

## SPECIFICATIONS

### GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult [www.bklighting.com/greensource](http://www.bklighting.com/greensource) for program requirements.

### Materials

Furnished in Copper-Free Aluminum (Type 6061-T6) or Brass (Type 360) or Stainless Steel (Type 316).

### Backbox

Rectangular, 4-5/8" x 2-7/8" deep, cast aluminum construction. Front access for wire connection and inspection. Provided with [5] 1/2" NPS tapped holes (2 on each end and 1 on the back) and [4] plugs. Suitable for concrete pour.

### Faceplate

Fully machined from solid billet. Countersunk holes provide for flush hardware mounting with [2] tamper-resistant, stainless steel mounting screws. 1/8" thick HT-805A silicone foam gasket with acrylic adhesive for water-tight seal.

### Lens

Shock resistant, tempered, glass lens is factory adhered to faceplate.

### BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

### Dimming

Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

### Optics

Rectilinear design provides wide lateral distribution and long forward throw.

### Adjust-e-Lume® (Pat. Pending)

Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

### Louvers and Aiming

Louver pattern is machined into faceplate to prevent direct view to the source at nadir. 30° optical cutoff for mounting heights well below typical visual glare angles. Adjustable lamp bracket provides up to 24° vertical aiming.

### Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

### Wiring

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

### Hardware

Tamper-resistant, stainless steel hardware. Faceplate screws are additionally black oxide treated for additional corrosion resistance.

### Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

### Warranty

5 year limited warranty.

### Certification and Listing

ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for installation in combustible materials (Type Non-IC). Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP65 Rated. Made in USA.



\*Teflon is a registered trademark of DuPont Corporation.

\*Energy Star is a registered trademark of the United States Environmental Protection Agency.

**B-K LIGHTING**

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