

**PROJECT  
AREA**

## SITE LOCATOR MAP

**JSD** Professional Services, Inc.  
• Engineers • Surveyors • Planners

SERVICES PROVIDED TO:  
**LANCASTER PROPERTIES, INC.**

**Madison Regional Office**     **Milwaukee Regional Office**     **Kenosha Regional Office**     **Fox Valley Regional Office**  
161 Horizon Drive, Suite 101    N22 W22931 Nancys Court, Suite 3    6520 67<sup>th</sup> Street    2801 E. Enterprise Ave., Ste. 201  
Verona, WI 53593    Waukesha, WI 53186    Kenosha, WI 53142    Appleton, WI 54913  
p 608.848.5060 f 608.848.2255    p 262.513.0666 f 262.513.1232    p 262.925.8367 f 262.925.8362    p 920-733-2800 f 920-733-2801

## Memo/Letter of Intent

[www.jsdinc.com](http://www.jsdinc.com)

To: Attn: Planning, Zoning City of Madison Staff & Urban Design  
Commission  
City of Madison Zoning & Development  
215 Martin Luther King Jr. Blvd.  
Madison, WI

cc: David Walsh, Jon Lancaster, Owners, Walsh Properties, LLC  
Dan Bertler, Supreme Structures

From: Justin L. Frahm, JSD, Project Consultant

Date: April 13, 2016

Re: 5251 High Crossing Blvd. – Walsh Properties, LLC – Land  
Use Application Re-submittal for Vehicle Sales Window

On behalf of David Walsh, Owner and Jon Lancaster, Owner, Walsh Properties, LLC, JSD Professional Services, Inc. is submitting revised site and architectural plans and hereby requesting Urban Design Commission Final review and approval of a combined Conditional Use/Urban Design Commission Application for purposes of reviewing the incorporation of a vehicle sales and service window for 5251 High Crossing Blvd. in coordination of originally approved plans (5235 High Crossing Blvd).

District 17, Alder Samba Baldeh has provided a waiver of the 30 day notice to submit Land Use documentation to the City of Madison and is in full support of the project and the proposed revision incorporating the drive-thru.

The revised architectural and building floor plans remain consistent with originally approved City plans. The site plan and associated engineering and landscape plans have been revised to incorporate a drive-thru window on the south endcap of the building footprint currently under construction. The drive-thru lane has been provided in the site plan area south of the footprint in lieu of nine (9) parking stalls associated with Lot 1.

Access from the proposed building footprint to the High Crossing Blvd. Right-of-Way sidewalk has been maintained with a connection to the south west corner of the building footprint. The hardscape associated with this connection has remained consistent with originally approved Urban Design Commission reviewed plans. Landscape design has been revised to accommodate additional plantings (overall) associated with the site plan area based on originally approved plans.

The project team has requested that any potential effort to expedite the review and approval process be considered given originally approved plans currently under construction.

Regards,



Justin Lee Frahm, ASLA  
Project Consultant  
JSD Professional Services, Inc.

Original Letter of Intent provided with the Land Use submission on August 26, 2015:

On behalf of David Walsh, Owner and Jon Lancaster, Owner, Walsh Properties, LLC, JSD Professional Services, Inc. is providing revised site and architectural plans and hereby requesting Urban Design Commission Final review and approval of a combined Conditional Use/Urban Design Commission Application for purposes of reviewing a proposed commercial outlot development at 5235 High Crossing Blvd.

On April 9<sup>th</sup>, 2015 project team representatives including myself and Dan Bertler, Owner's Representative, Supreme Structures attended an initial Development Assistance Team review (DAT) meeting at the City of Madison for initial concept review of a proposed 12,000 SF commercial outlot development.

On May 20<sup>th</sup>, 2015, Dan Bertler had met with Alder Samba Baldeh of Madison Aldermanic District 17. The project was presented and discussed and well received by the Alder. Alder Baldeh has subsequently provided support and a waiver of the 30 day notice to submit Land Use documentation for the project to the City.

The site plan features a 9,550 SF commercial outlot footprint. Walsh Properties, LLC is requesting approval of a conditional use which features a multi-tenant commercial building with an outdoor patio serving the north endcap. The building is proposing flexible floorplan space to accommodate multiple commercial tenants.

Walsh Properties, LLC proposes a land division by CSM for Lot 1, CSM No. 7285, 2.610 acres (113,678 SF) to create two Commercial Center (CC) zoned parcels to support the legal site administration for a commercial outlot development. Lot 1 will total 39,511 SF or 0.907 acres. Lot 2 which includes the existing building will total 74,167 SF or 1.703 acres.

The existing parcel includes a 24,743 SF building with 84 total parking stalls served by full access from the west via High Crossing Boulevard and to the north via City View Drive. The site includes cross access serving the existing inline commercial building on the adjacent parcel to the south and loading dock access via City View Drive. Mature landscaping and open space is incorporated within the frontage facing High Crossing Boulevard and City View Drive.

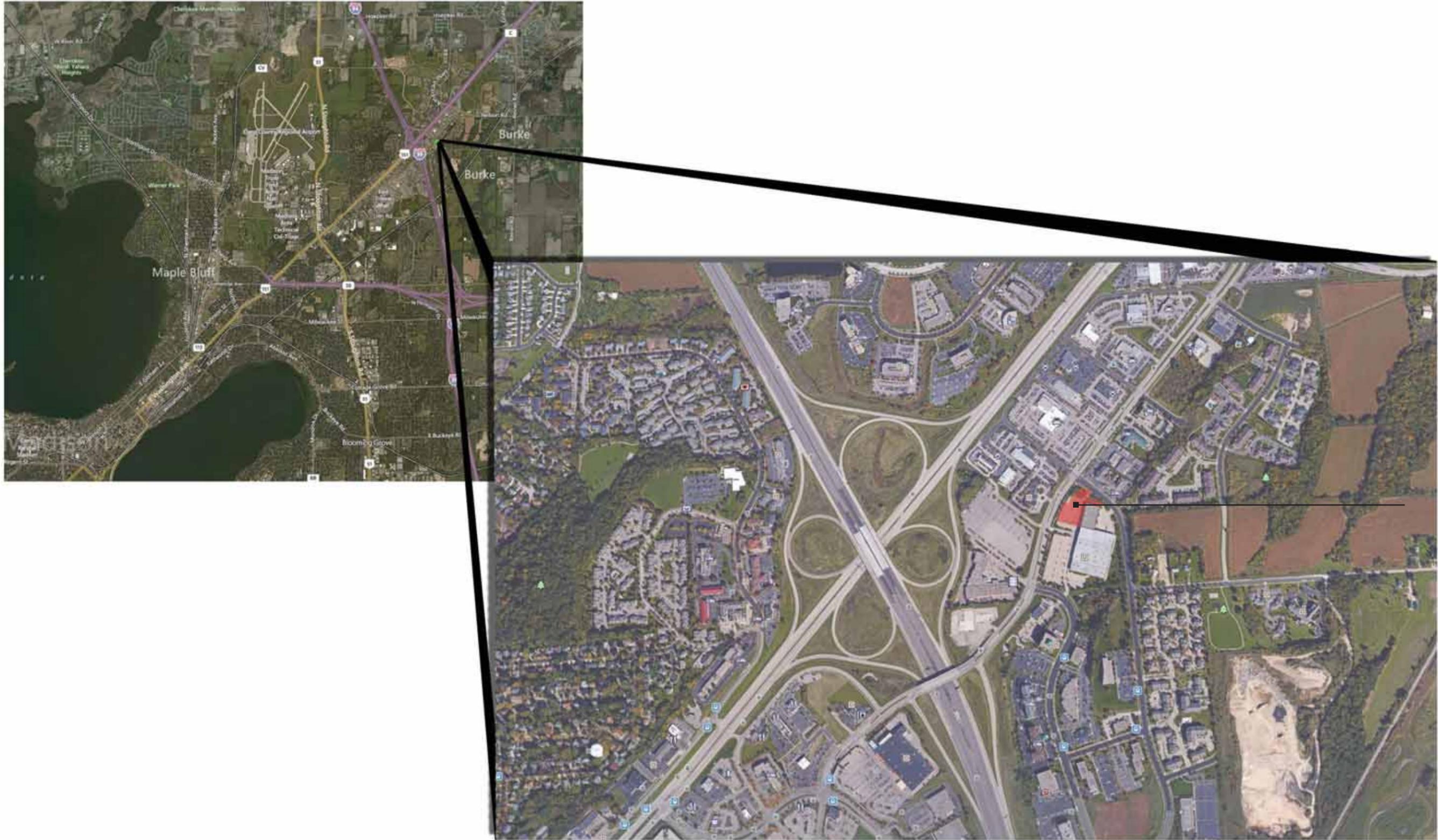
The proposed commercial outlot building will feature 4-5 tenants with a divisible floorplan to accommodate flexible commercial spaces ranging in size from 760 SF to 2,800 SF. Existing parking areas for the original lot will be utilized to better serve the proposed commercial use including a total of 84 large car parking spaces for Lot 1 & 2 combined and 2 accessible parking spaces for proposed Lots 1 & 2 of the land division by CSM. There is also an additional 30 large car parking spaces and 2 accessible parking spaces that will be utilized via a shared parking agreement with the lot adjacent to the south. The owner of Lots 1 & 2 proposes to repave the shared parking area in bringing the shared parking area up to current zoning standards. 6 bike stalls will be incorporated on the proposed commercial outlot site. Hours of operation will be determined by future tenants however will operate within appropriate hours based on proposed use.

Currently the proposed finished floor elevation and grade at the existing surface of the site and the ROW location at the corner of High Crossing Boulevard and City View Drive proposes a severe constraint (6-8' of total grade transition) in providing entry stair access to the proposed building to the frontage sidewalk at High Crossing Boulevard. An accessible public ROW sidewalk connection has been made to the proposed commercial outlot building adjacent to the location serving the existing Madison Metro bus stop location on City View Drive.

Naturalized landscaping will provide transitional design from the ROW and the proposed building foundation. Improved parking lot landscape treatment including parking islands, canopy trees, adjacent to retaining walls and open space is proposed to bring the site in conformance with the current City of Madison zoning code. Lot coverage (impervious area) for proposed lot 1 totals 33,088 SF or 83.7%. Lot coverage (impervious area) for proposed lot 2 totals 63,372 SF or 85.0%.

The existing parcel has a current assessed value of \$1,510,000. Proposed construction would take place in fall of 2015 following municipal entitlement review and finish in spring of 2016.

END

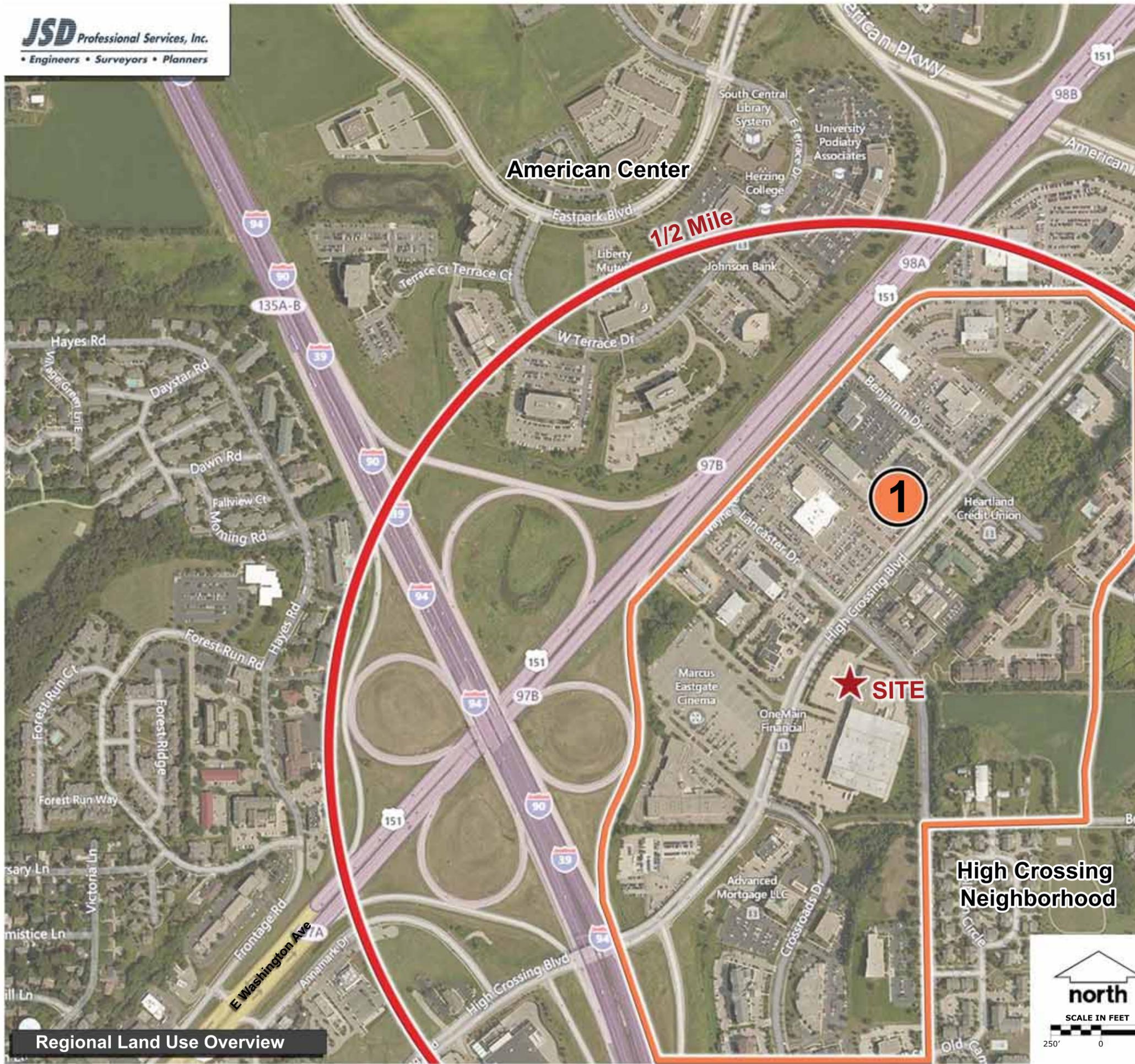


PROJECT  
AREA

## SITE LOCATOR MAP

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SERVICES PROVIDED TO:  
**LANCASTER PROPERTIES, INC.**

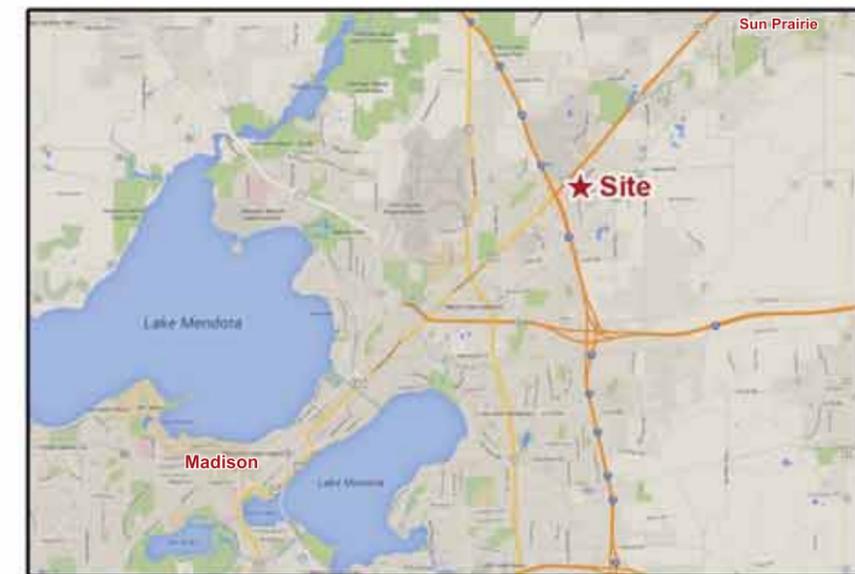
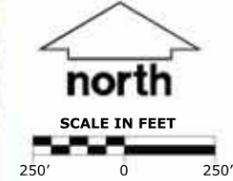


**LEGEND**

- ①
- Marcus Eastgate Cinema
  - Uno Chicago Grill
  - Russ Darrow: Chrysler Dodge Jeep Ram
  - Russ Darrow: Mazda of Madison
  - Jon Lancaster Toyota
  - Zimbrick Nissan
  - Don Miller Subaru East
  - Zimbrick Buick GMC Eastside
  - Heartland Credit Union
  - GrandStay Residential Suites Hotel
  - Staybridge Suites Madison- East
  - Fairfield Inn & Suites Madison East
  - Courtyard Madison East
  - University of Phoenix – Madison Campus
  - Pooley's Sports Bar and Event Center
  - Zimbrick Hyundai East
  - Metro Ford of Madison

Regional Land Use Overview

**High Crossing  
Neighborhood**

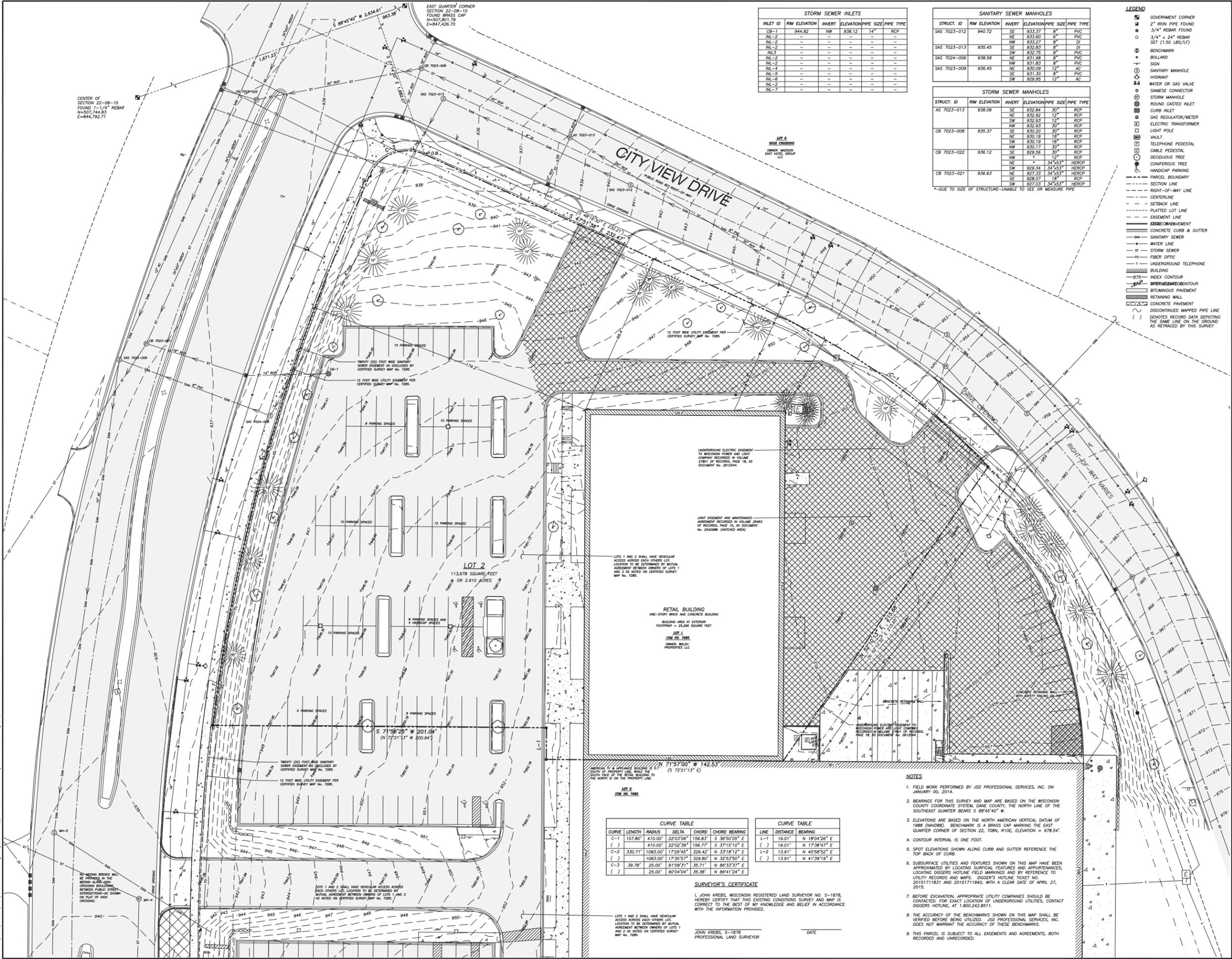




## CONTEXT PHOTOS

**JSD** Professional Services, Inc.  
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**LANCASTER PROPERTIES, INC.**



STORM SEWER INLETS					
INLET ID	RIM ELEVATION	INVERT ELEVATION	PIPE SIZE	PIPE TYPE	
CB-1	944.82	NW 938.12	14"	RCP	
INL-2	-	-	-	-	-
INL-3	-	-	-	-	-
INL-4	-	-	-	-	-
INL-5	-	-	-	-	-
INL-6	-	-	-	-	-
INL-7	-	-	-	-	-

SANITARY SEWER MANHOLES					
STRUCT. ID	RIM ELEVATION	INVERT ELEVATION	PIPE SIZE	PIPE TYPE	
SAS 7023-012	940.72	SE 933.37	8"	PVC	
SAS 7023-013	935.45	SE 932.83	8"	DI	
SAS 7024-006	938.58	NE 931.98	8"	PVC	
SAS 7023-009	936.45	NW 931.83	8"	PVC	
		NE 930.09	12"	AC	
		SE 931.30	8"	PVC	
		SW 929.95	12"	AC	

STORM SEWER MANHOLES					
STRUCT. ID	RIM ELEVATION	INVERT ELEVATION	PIPE SIZE	PIPE TYPE	
AS 7023-013	938.08	SE 932.84	30"	RCP	
CB 7023-008	935.37	NE 932.92	12"	RCP	
		SW 932.93	12"	RCP	
		SE 932.93	30"	RCP	
		SE 930.20	30"	RCP	
		NE 930.18	18"	RCP	
		SW 930.19	18"	RCP	
CB 7023-022	936.12	NW 930.17	30"	RCP	
		SE 929.56	30"	RCP	
		"	12"	RCP	
CB 7023-021	936.63	NE 927.33	34"x53"	HERCSP	
		SE 928.07	18"	RCP	
		SW 927.03	34"x53"	HERCSP	

- LEGEND**
- Government Corner
  - 2" IRON PIPE FOUND
  - 3/4" x 24" REBAR FOUND
  - 3/4" x 24" REBAR SET (1.50 LBS/LY)
  - BENCHMARK
  - BOLLARD
  - SIGN
  - SANITARY MANHOLE
  - HYDRANT
  - WATER OR GAS VALVE
  - SIAMSESE CONNECTOR
  - STORM MANHOLE
  - ROUND CASTED INLET
  - CURB INLET
  - GAS REGULATOR/METER
  - ELECTRIC TRANSFORMER
  - LIGHT POLE
  - VAULT
  - TELEPHONE PEDESTAL
  - CABLE PEDESTAL
  - DECIDUOUS TREE
  - CONIFEROUS TREE
  - HANDICAP PARKING
  - PARCEL BOUNDARY
  - SECTION LINE
  - RIGHT-OF-WAY LINE
  - CENTERLINE
  - SETBACK LINE
  - PLATTED LOT LINE
  - EASEMENT LINE
  - EDGE OF IMPROVEMENT
  - CONCRETE CURB & GUTTER
  - SANITARY SEWER
  - WATER LINE
  - STORM SEWER
  - FIBER OPTIC
  - UNDERGROUND TELEPHONE
  - BUILDING
  - INDEX CONTOUR
  - INTERFERING CONTOUR
  - BITUMINOUS PAVEMENT
  - RETAINING WALL
  - CONCRETE PAVEMENT
  - DISCONTINUED MAPPED PIPE LINE
  - DENOTES RECORD DATA DEPICTING THE SAME LINE ON THE GROUND AS RETRACED BY THIS SURVEY

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MADISON REGIONAL OFFICE  
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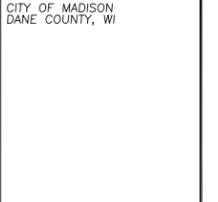
**WALSH PROPERTIES, LLC.**  
 P.O. BOX 1497  
 MADISON, WI 53701

PROJECT LOCATION:  
 CITY OF MADISON  
 DANE COUNTY, WI

PROJECT:  
 5235 HIGH CROSSING BLVD

JSD PROJECT NO.: 15-6792

SEAL/SIGNATURE:



ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

DESIGN: JK 05-08-15  
 APPROVED: LJB 05-12-15  
 PLAN MODIFICATIONS:  
 LDC INTL-FNL 05-27-15

DATE	DESCRIPTION
05-08-15	DESIGN
05-12-15	APPROVED
05-27-15	PLAN MODIFICATIONS

**DIGGERS HOTLINE**  
 Call 811 or (800) 242-8511  
 Milwaukee Area (262) 432-7910  
 Hearing Impaired TDD (800) 542-2289  
 www.DiggerHotline.com

SHEET TITLE:  
**BOUNDARY, TOPOGRAPHIC AND UTILITY SURVEY**  
 MAP NO. E-237  
 SHEET NUMBER:  
**C.O.0**

LOT 2  
 113,678 SQUARE FEET  
 OR 2.610 ACRES

RETAIL BUILDING  
 ONE-STORY BRICK AND CONCRETE BUILDING  
 BUILDING AREA AT EXTERIOR  
 FOOTPRINT = 25,286 SQUARE FEET  
 MAP 1  
 OWNERS: WALSH PROPERTIES LLC

**CURVE TABLE**

CURVE	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
C-1	157.80'	410.00'	22°03'08"	156.83'	S 36°50'05" E
( )	410.00'	22°03'08"	156.77'	S 37°15'10" E	( )
C-2	330.71'	1083.00'	17°29'45"	329.42'	N 33°18'12" E
( )	1083.00'	17°30'57"	329.80'	N 32°53'50" E	( )
C-3	39.78'	25.00'	91°09'31"	35.71'	N 86°33'37" E
( )	25.00'	90°04'04"	35.38'	N 86°41'24" E	( )

**CURVE TABLE**

LINE	DISTANCE	BEARING
L-1	19.01'	N 18°04'28" E
( )	19.01'	N 17°38'47" E
L-2	13.91'	N 40°28'52" E
( )	13.91'	N 41°39'19" E

- NOTES**
- FIELD WORK PERFORMED BY JSD PROFESSIONAL SERVICES, INC. ON JANUARY 02, 2014.
  - BEARINGS FOR THIS SURVEY AND MAP ARE BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, THE NORTH LINE OF THE SOUTHEAST QUARTER BEARS S 88°45'40" W.
  - ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BENCHMARK IS A BRASS CAP MARKING THE EAST QUARTER CORNER OF SECTION 22, T08N, R10E, ELEVATION = 978.54'.
  - CONTOUR INTERVAL IS ONE FOOT.
  - SPOT ELEVATIONS SHOWN ALONG CURB AND GUTTER REFERENCE THE TOP BACK OF CURB.
  - SUBSURFACE UTILITIES AND FEATURES SHOWN ON THIS MAP HAVE BEEN APPROXIMATED BY LOCATING SURFICIAL FEATURES AND APPURTENANCES, LOCATING DIGGERS HOTLINE FIELD MARKINGS AND BY REFERENCE TO UTILITY RECORDS AND MAPS. DIGGERS' HOTLINE TICKET NO. 20151711831 AND 20151711840, WITH A CLEAR DATE OF APRIL 27, 2015.
  - BEFORE EXCAVATION, APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED FOR EXACT LOCATION OF UNDERGROUND UTILITIES, CONTACT DIGGERS' HOTLINE AT 1.800.242.8511.
  - THE ACCURACY OF THE BENCHMARKS SHOWN ON THIS MAP SHALL BE VERIFIED BEFORE BEING UTILIZED. JSD PROFESSIONAL SERVICES, INC. DOES NOT WARRANT THE ACCURACY OF THESE BENCHMARKS.
  - THIS PARCEL IS SUBJECT TO ALL EASEMENTS AND AGREEMENTS, BOTH RECORDED AND UNRECORDED.

**SURVEYOR'S CERTIFICATE**

I, JOHN KREBS, WISCONSIN REGISTERED LAND SURVEYOR NO. S-1878, HEREBY CERTIFY THAT THIS EXISTING CONDUITS SURVEY AND MAP IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF IN ACCORDANCE WITH THE INFORMATION PROVIDED.

JOHN KREBS, S-1878  
 PROFESSIONAL LAND SURVEYOR

DATE \_\_\_\_\_

File: 15-6792-DWG156792.dwg; 30x42-CITY SUBMITTAL User: j/krebs Plot: May 27, 2015 - 6:37am xref.plt



File: I:\2015\156792\DWG\15-6792 Construction Documents.dwg Layout: C2.0 - G&E Plan User: jpbaker PlotDate: Apr 12, 2016 11:17am Verifis



**LEGEND (PROPOSED)**

- PROPERTY LINE
- LOT LINE
- PROPOSED BUILDING OUTLINE
- LIMITS OF DISTURBANCE
- 944 PROPOSED 1 FOOT CONTOUR
- 945 PROPOSED 5 FOOT CONTOUR
- PAVEMENT BREAKLINE
- EDGE OF PAVEMENT
- SILT FENCE
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- 18" STANDARD CURB AND GUTTER
- 18" REJECT CURB & GUTTER
- STONE RETAINING WALL
- MODULAR BLOCK RETAINING WALL
- SPOT ELEVATION
- EP = 946.81
- BW = BOTTOM OF WALL
- EP = EDGE OF PAVEMENT
- EC = EDGE OF CONCRETE
- PAV = PAVEMENT SURFACE
- RIM = RIM ELEVATION
- SW = TOP OF SIDEWALK
- TW = TOP OF WALL

**GENERAL NOTES**

1. REFER TO THE EXISTING CONDITIONS SURVEY, CONDUCTED ON APRIL 27TH & 28TH 2015, BY JSD FOR EXISTING CONDITIONS NOTES AND LEGEND.
2. ALL WORK IN THE ROW SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION AND CITY OF MADISON REQUIREMENTS.
3. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES UNLESS OTHERWISE SHOWN.
4. THIS PROJECT HAS BEEN DESIGNED AND WILL BE CONSTRUCTED IN COMPLIANCE WITH ALL OF THE WDRP PERMIT APPLICATION STANDARDS.

**CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS**

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE CURRENT DEPARTMENT OF NATURAL RESOURCES EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS WHICH ARE AVAILABLE AT: <http://www.dnr.state.wi.us/runoff/stormwater/techstds.htm>
2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIALS AS SHOWN ON PLAN. MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS IF MODIFICATIONS CONFORM TO WDR TECHNICAL STANDARDS.
3. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
4. INSPECT EROSION CONTROL MEASURES AFTER EACH 1/2" OR GREATER RAINFALL. REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION.
5. EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER.
6. INSTALL A TRACKING PAD, 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. TRACKING PADS ARE TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED BY THE MUNICIPALITY.
7. 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.
8. INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES AND IN FRONT OF SILT FENCING IN ANY LOW AREA ALL IN ACCORDANCE WITH WDR TECHNICAL STANDARDS.
9. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):
  - A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
  - B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
  - C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.
10. INSTALL TYPE D INLET PROTECTION AROUND ALL STORM SEWER INLETS AND CATCH BASINS THAT MAY RECEIVE RUNOFF FROM AREAS UNDER CONSTRUCTION.
11. APPLY ANIONIC POLYMER TO DISTURBED AREAS IF EROSION BECOMES PROBLEMATIC.
12. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, AND/OR ENGINEER SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
13. ALL SLOPES EXCEEDING 5:1 (20%) AND DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING OR APPLICATION OF A WDOT APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF. AS REQUIRED, CONTRACTOR SHALL PROVIDE PRODUCT SPECIFICATIONS TO PROJECT ENGINEER FOR APPROVAL. SLOPES 3:1 (33%) SHALL BE STABILIZED AS SOON AS PRACTICABLE FOLLOWING GRADING ACTIVITIES ARE COMPLETE.
14. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON VEGETATIVE STABILIZATION AND/OR PROPERTY SALE IN ACCORDANCE WITH WISCONSIN SAFETY AND PROFESSIONAL SERVICES REQUIREMENTS.
15. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDR TECHNICAL STANDARD 1068.
16. CONTRACTOR TO PROVIDE SOLID LID OR METAL PLATE ON ALL OPEN MANHOLES DURING CONSTRUCTION TO MINIMIZE SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM.
17. ALL APRON ENDWALLS SHALL BE PROVIDED WITH RIP RAP PER DETAILS.
18. PHASE 1 - BUILDING CONSTRUCTION  
PHASE 2 - PARKING LOT IMPROVEMENTS

**GRADING AND SEEDING NOTES**

1. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
2. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES WITH SILT FENCING FOR EROSION CONTROL UNTIL CONSTRUCTION IS COMPLETED AND NOTICE OF TERMINATION FILED.
4. CONTRACTOR SHALL CHISEL-PLow OR DEEP TILL WITH DOUBLE TINES ALL STORMWATER MANAGEMENT FACILITIES JUST PRIOR TO SEEDING AND MULCHING TO PROMOTE INFILTRATION.
5. CONTRACTOR SHALL WATER ALL NEWLY SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
6. CONTRACTOR TO DEEP TILL ALL COMPACTED PVIOUS SURFACES PRIOR TO SEEDING AND MULCHING.
7. THE CONTRACTOR SHALL NOTIFY THE CITY OF MADISON TWO (2) WORKING DAYS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY.
8. IF GRADING ACTIVITIES STOP ON ANY PORTION OF LAND FOR 14 OR MORE CALENDAR DAYS, THE AREA IN QUESTION MUST BE TEMPORARILY STABILIZED.
9. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARILY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE. ALL SLOPES 33% OR GREATER SHALL BE TEMPORARILY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM AS SOON AS PRACTICABLE.
10. WATER FLOWING DIRECTLY INTO BIORETENTION BASINS OR RAIN GARDENS SHALL BE TEMPORARILY DIVERTED FOR 60 DAYS TO ALLOW FOR PLANTING GROWTH.

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SERVICES PROVIDED TO:  
**WALSH PROPERTIES, LLC.**

P.O. BOX 1497  
 MADISON, WI 53701

PROJECT:  
**5251 HIGH CROSSING BLVD**

PROJECT LOCATION:  
 CITY OF MADISON  
 DANE COUNTY, WI

JSD PROJECT NO.: 15-6792

SEAL/SIGNATURE:

ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

DESIGN:	PGB	06/22/2015
DRAWN:	PGB	06/22/2015
APPROVED:	BHD	06/23/2015

PLAN MODIFICATIONS:	DATE:
UDC INITIAL - FINAL	05/27/2015
UDC INITIAL - FINAL RESUBMITTAL	06/24/2015
UDC FINAL SUBMITTAL	08/26/2015
SITE PLAN VERIFICATION	09/25/2015
REVISIONS PER COM	10/15/2015
REVISIONS PER COM - ENG	11/02/2015
REVISIONS PER COM COMMENTS	11/26/2016
LAND USE RESUBMITTAL	04/13/2016

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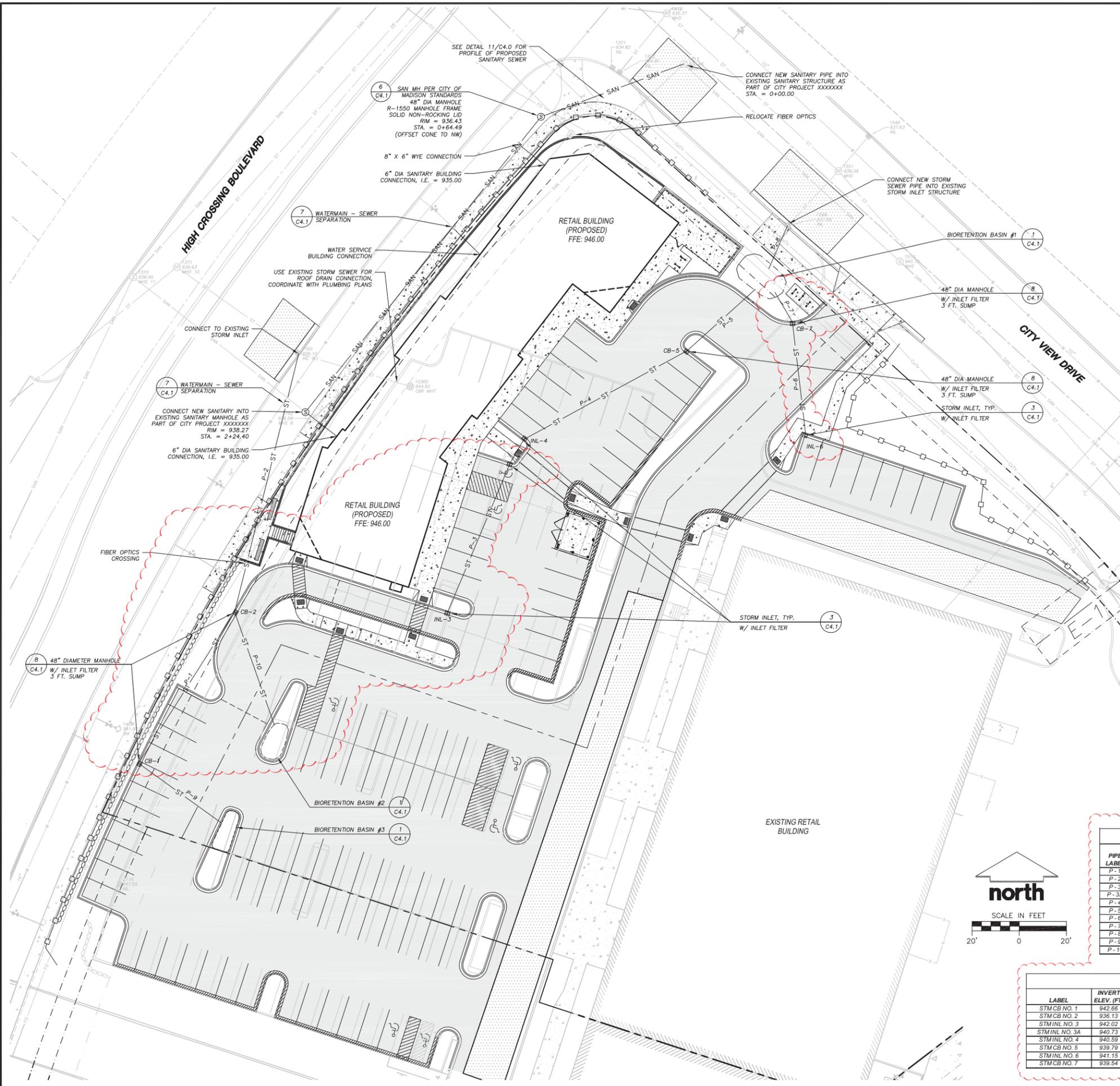
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SHEET TITLE:  
**GRADING AND EROSION CONTROL PLAN**

SHEET NUMBER:  
**C2.0**

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File: I:\2015\156792\DWG\15-6792 Construction Documents.dwg Layout: C3.0 - Utility Plan User: jpbaker PlotDate: Apr 12, 2015 - 11:18am View:



**LEGEND (PROPOSED)**

---	PROPERTY LINE
---	LOT LINE
---	BUILDING FIRST FLOOR
---	EDGE OF PAVEMENT
---	ST
---	SAN
---	WATER SERVICE
---	ST
---	STORM SEWER (BY OTHERS)
---	ASPHALT PAVEMENT
---	CONCRETE PAVEMENT
---	18" STANDARD CURB AND GUTTER
---	18" REJECT CURB & GUTTER
---	STONE RETAINING WALL
---	MODULAR BLOCK RETAINING WALL
---	BIORETENTION POND

- GENERAL NOTES**
- REFER TO THE EXISTING CONDITIONS SURVEY, CONDUCTED ON APRIL 27TH & 28TH 2015, BY JSD FOR EXISTING CONDITIONS NOTES AND LEGEND.
  - ALL WORK IN THE ROW SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION AND CITY OF MADISON REQUIREMENTS.
  - NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES UNLESS OTHERWISE SHOWN.
  - THIS PROJECT HAS BEEN DESIGNED AND WILL BE CONSTRUCTED IN COMPLIANCE WITH ALL OF THE WDR WRAPP PERMIT APPLICATION STANDARDS.

- UTILITY NOTES**
- ALL WORK IN THE RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF MADISON STANDARD CONSTRUCTION SPECIFICATIONS (STANDARD SPECIFICATIONS).
  - DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
  - 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.
  - LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
  - ALL CONSTRUCTION SIGNING TO BE IN ACCORDANCE WITH THE CITY OF MADISON AND WISCONSIN DEPARTMENT OF TRANSPORTATION REQUIREMENTS.
  - PROVIDE DE-WATERING ACTIVITIES AND PERMITS AS NECESSARY PER WDR REQUIREMENTS AND WDR TECHNICAL STANDARD 1061.
  - ALL PRIVATE WATER MAIN AND WATER SERVICES SHALL BE INSTALLED WITH A 6" MINIMUM BURY.
  - THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED.
  - THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING PLANS DESIGNED TO MEET ORDINANCES AND REQUIREMENTS OF THE MUNICIPALITY AND WISDOT, WSPS, AND WDR.
  - PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
    - EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
    - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
    - VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
    - NOTIFYING ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
    - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
  - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED. IF CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
  - THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
  - 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.
  - CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
  - OPEN PICK HOLES IN SANITARY MANHOLE CASTING LIDS ARE PROHIBITED.
  - ALL PRIVATE SANITARY BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-2.
  - ALL PRIVATE STORM BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-3.
  - ALL PRIVATE PIPE AND TUBING FOR WATER SERVICE SHALL CONFORM TO SPS 384.30-4.
  - ALL PRIVATE PIPE SHALL BE INSTALLED PER SPS 382.40-8 INCLUDING AT LEAST 8" OF HORIZONTAL DISTANCE BETWEEN WATER PIPING AND SANITARY SEWER FROM CENTER OF PIPE TO CENTER OF PIPE AND 6" OF SEPARATION BETWEEN STORM SEWER AND WATER PIPING.
  - THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT HIS EXPENSE. STREETS SHALL BE WATERED TO CONTROL DUST WHEN ORDERED BY THE ENGINEER.
  - THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO BE IN CONFORMANCE WITH THE CITY EROSION CONTROL AND STORMWATER ORDINANCE, AND DNR ADMINISTRATIVE RULE NR 216 AT ALL TIMES.

**PROPOSED STORM SEWER PIPE SCHEDULE**

PIPE LABEL	FROM	TO	LENGTH (FT)	INVERT ELEVATION (FT)	DISCHARGE ELEVATION (FT)	SLOPE (%)	PIPE SIZE & TYPE
P-1	STM CB NO. 1	STM CB NO. 2	73.90	942.66	940.00	3.50%	8" PVC
P-2	STM CB NO. 2	EXIST INL	112.56	936.13	930.50	5.00%	10" PVC
P-3	STM INL NO. 3	STM INL NO. 3A	63.30	942.02	940.75	2.00%	8" HDPE
P-3A	STM INL NO. 3A	STM INL NO. 4	11.00	940.73	940.62	1.00%	8" HDPE
P-4	STM INL NO. 4	STM CB NO. 5	78.82	940.59	939.80	1.00%	8" HDPE
P-5	STM CB NO. 5	BIORETENTION	38.90	939.79	939.50	0.75%	10" HDPE
P-6	STM INL NO. 6	STM CB NO. 7	46.80	941.15	939.75	3.00%	8" HDPE
P-7	STM CB NO. 7	BIORETENTION	15.00	939.84	939.50	0.25%	8" PVC
P-8	BIORETENTION	EXIST INL	19.80	934.99	934.00	5.00%	8" PVC
P-9	BIORETENTION	STM CB NO. 1	42.50	944.94	943.98	2.25%	6" PVC
P-10	BIORETENTION	STM CB NO. 2	50.71	944.44	942.41	4.00%	6" PVC

**PROPOSED STORM SEWER STRUCTURES SCHEDULE**

LABEL	INVERT ELEV. (FT)	RIM ELEV. (FT)	DEPTH (FT)	STRUCTURE DESCRIPTION	GRATE
STM CB NO. 1	942.66	946.44	3.78	48" DIA MANHOLE W/3' SUMP	R-3067, INLET FRAME, TYPE R GRATE
STM CB NO. 2	936.13	946.19	10.06	48" DIA MANHOLE W/3' SUMP	R-3067, INLET FRAME, TYPE R GRATE
STM INL NO. 3	942.02	946.47	4.45	2'X3' BOX	R-3067, INLET FRAME, TYPE R GRATE
STM INL NO. 3A	940.73	944.82	4.09	2'X3' BOX	R-3067, INLET FRAME, TYPE R GRATE
STM INL NO. 4	940.59	944.60	4.01	2'X3' BOX	R-3067, INLET FRAME, TYPE R GRATE
STM CB NO. 5	939.79	943.46	3.67	48" DIA MANHOLE W/3' SUMP	R-3067, INLET FRAME, TYPE R GRATE
STM INL NO. 6	941.15	945.06	3.91	2'X3' BOX	R-3067, INLET FRAME, TYPE R GRATE
STM CB NO. 7	939.84	941.93	2.39	48" DIA MANHOLE W/3' SUMP	R-3067, INLET FRAME, TYPE R GRATE

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SERVICES PROVIDED TO:  
**WALSH PROPERTIES, LLC.**

P.O. BOX 1497  
 MADISON, WI 53701

PROJECT:  
**5251 HIGH CROSSING BLVD**

PROJECT LOCATION:  
 CITY OF MADISON  
 DANE COUNTY, WI

JSD PROJECT NO.: 15-6792

SEAL SIGNATURE:

ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

DESIGN:	PGB	06/22/2015
DRAWN:	PGB	06/22/2015
APPROVED:	BHD	06/23/2015

PLAN MODIFICATIONS:	DATE:
UDC INITIAL - FINAL	05/27/2015
UDC INITIAL - FINAL RESUBMITTAL	06/24/2015
UDC FINAL SUBMITTAL	08/26/2015
SITE PLAN VERIFICATION	09/25/2015
REVISIONS PER COM	10/15/2015
REVISIONS PER COM - ENG	11/02/2015
REVISIONS PER COM COMMENTS	11/20/2015
REVISIONS PER COM - ENG	12/03/2015
LAND USE RESUBMITTAL	04/13/2016

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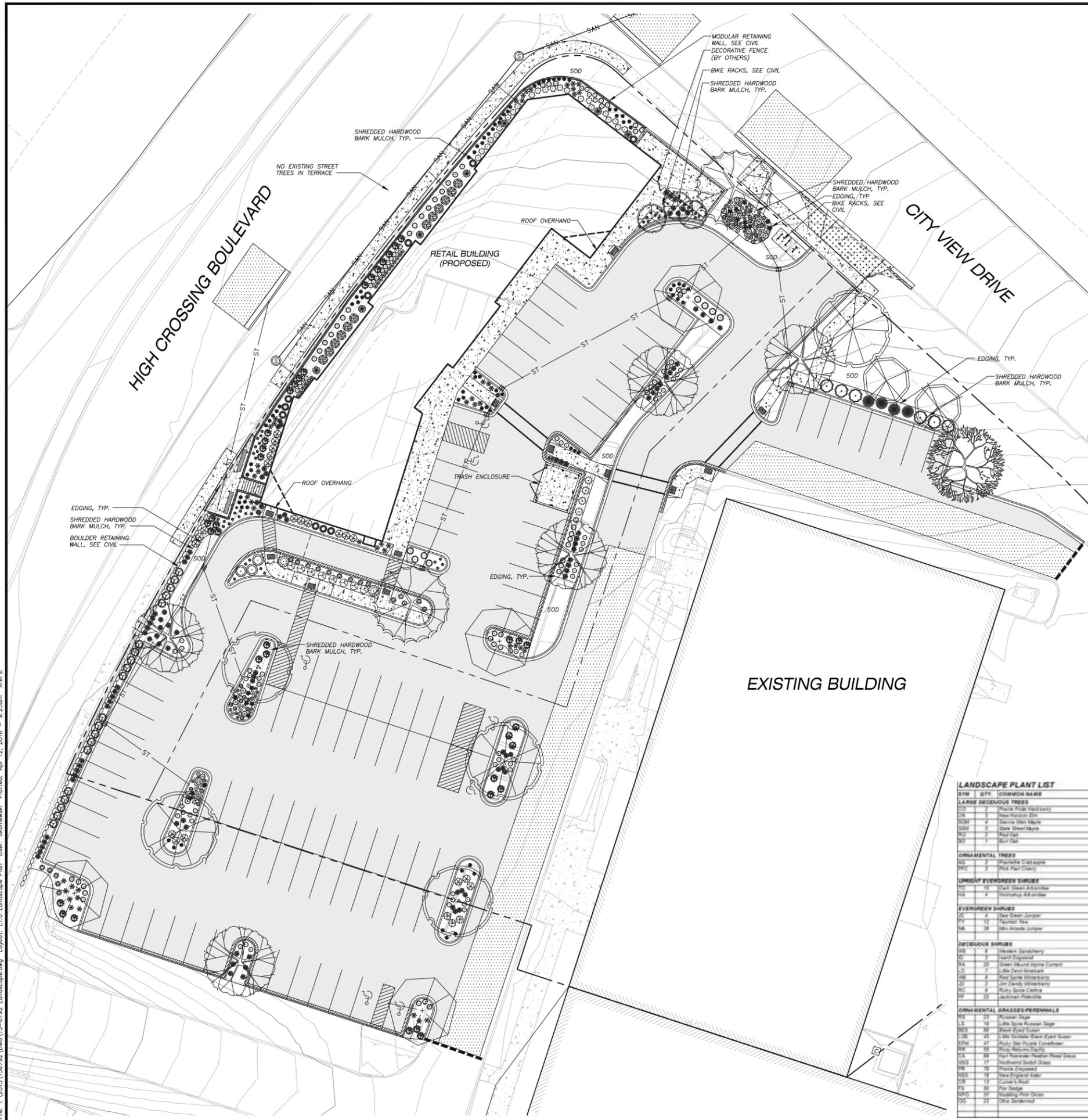
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SHEET TITLE:  
**UTILITY PLAN**

SHEET NUMBER:  
**C3.0**

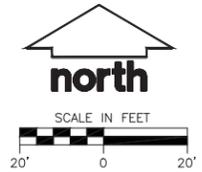
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**LEGEND (PROPOSED)**

- PROPERTY LINE
- - - EASEMENT LINE
- FUTURE BUILDING ADDITION
- EDGE OF PAVEMENT
- SAWCUT
- ST STORM SEWER
- SAN SANITARY SEWER
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- NEW ASPHALT SURFACE AT MILLED AREA
- 18" STANDARD CURB AND GUTTER
- 18" REJECT CURB AND GUTTER
- BOULDER RETAINING WALL
- MODULAR BLOCK RETAINING WALL



**GENERAL NOTES**

1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGEND.
2. ALL WORK IN THE ROW SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
4. DRAWING FOR REVIEW - NOT FOR CONSTRUCTION UNLESS OTHERWISE NOTED IN THE TITLE BLOCK.
5. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL FINE GRADING AND TOPSOILING WITH GENERAL CONTRACTOR
6. REFER TO SHEET L2.0 FOR ADDITIONAL DETAILS, NOTES AND SPECIFICATION INFORMATION INCLUDING MATERIALS, GUARANTEE AND EXECUTION RELATED TO LANDSCAPE PLAN
7. ALL PATIOS ON PLAN TO BE INSTALLED BY OTHERS
8. ALL RETAINING WALL EXTENSIONS FOR PROPOSED PATIOS TO BE INSTALLED BY OTHERS

**LEGEND (PROPOSED)**

**LARGE DECIDUOUS TREES**

- Prairie Pride Hackberry
- New Horizon Elm
- Sienna Glen Maple
- State Street Maple
- Red Oak
- Burr Oak

**ORNAMENTAL TREES**

- Prairiefire Crabapple
- Pink Flair Cherry

**UPRIGHT EVERGREEN SHRUB**

- Dark Green Arborvitae
- Holmstrup Arborvitae

**EVERGREEN SHRUBS**

- Sea Green Juniper
- Taunton Yew
- Mini Arcade Juniper

**DECIDUOUS SHRUBS**

- Western Sandcherry
- Isanti Dogwood
- Green Mound Alpine Currant
- Little Devil Ninebark
- Red Sprite Winterberry
- Ruby Spice Clethra
- Jim Dandy Winterberry
- Jackman Potentilla

**ORNAMENTAL GRASSES/PERENNIALS**

- Russian Sage
- Little Spire Russian Sage
- Black-Eyed Susan
- Little Goldstar Black-Eyed Susan
- Ruby Star Coneflower Purple Coneflower
- Rosy Returns Daylily
- Karl Foerster Feather Reed Grass
- Northwind Switch Grass
- Prairie Dropseed
- New England Aster
- Culver's Root
- Fox Sedge
- Nodding Pink Onion
- Ohio Goldenrod

**LANDSCAPE PLANT LIST**

SYM	QTY	COMMON NAME	SCIENTIFIC NAME	SIZE	ROOT	POINTS	TOTAL POINTS
<b>LARGE DECIDUOUS TREES</b>							
TD	1	Prairie Pride Hackberry	CECROPS racemosa	2.10' Cal	Ball	25	25
TE	1	New Horizon Elm	ULMUS americana	2.10' Cal	Ball	15	15
SM	1	Sienna Glen Maple	ACER glaberrimum	2.10' Cal	Ball	15	15
ST	1	State Street Maple	ACER glaberrimum	2.10' Cal	Ball	15	15
RO	1	Red Oak	QUERCUS rubra	2.10' Cal	Ball	15	15
BO	1	Burr Oak	QUERCUS macrocarpa	2.10' Cal	Ball	15	15
<b>ORNAMENTAL TREES</b>							
OT	1	Prairiefire Crabapple	MALUS ioensis	1.10' Cal	Ball	15	15
OC	1	Pink Flair Cherry	PRAUNUS pensilvanica	1.10' Cal	Ball	15	15
<b>UPRIGHT EVERGREEN SHRUBS</b>							
UES	1	Dark Green Arborvitae	THUJA occidentalis	3.0' Hx 10'	Ball	10	10
UES	1	Holmstrup Arborvitae	THUJA occidentalis	3.0' Hx 10'	Ball	10	10
<b>EVERGREEN SHRUBS</b>							
ES	1	Sea Green Juniper	JUNIPERUS communis	10.24' Hx 10'	# 3 Cal	4	4
ES	1	Taunton Yew	TAXUS canadensis	10.24' Hx 10'	# 3 Cal	4	4
ES	1	Mini Arcade Juniper	JUNIPERUS communis	10.24' Hx 10'	# 3 Cal	4	4
<b>DECIDUOUS SHRUBS</b>							
DS	1	Western Sandcherry	PRAUNUS pennsylvanica	10.24' Hx 10'	# 3 Cal	3	3
DS	1	Isanti Dogwood	DOGWOOD	10.24' Hx 10'	# 3 Cal	3	3
DS	1	Green Mound Alpine Currant	RIBES cynosugetum	10.24' Hx 10'	# 3 Cal	3	3
DS	1	Little Devil Ninebark	OPULIS alata	10.24' Hx 10'	# 3 Cal	3	3
DS	1	Red Sprite Winterberry	LIQUIDAMBAR styraciflua	10.24' Hx 10'	# 3 Cal	3	3
DS	1	Ruby Spice Clethra	CELEBRIS alnifolia	10.24' Hx 10'	# 3 Cal	3	3
DS	1	Jim Dandy Winterberry	LIQUIDAMBAR styraciflua	10.24' Hx 10'	# 3 Cal	3	3
DS	1	Jackman Potentilla	POTENTILLA racemosa	10.24' Hx 10'	# 3 Cal	3	3
<b>ORNAMENTAL GRASSES/PERENNIALS</b>							
OG	1	Russian Sage	PEROVSKIA atrorubra	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Little Spire Russian Sage	PEROVSKIA atrorubra	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Black-Eyed Susan	RUDOLPHIA hirtelliflora	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Little Goldstar Black-Eyed Susan	RUDOLPHIA hirtelliflora	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Ruby Star Coneflower Purple Coneflower	ROTEGIFERA alba	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Rosy Returns Daylily	HELIOPSIS scabra	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Karl Foerster Feather Reed Grass	PHALARIS communis	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Northwind Switch Grass	PANICUM capillare	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Prairie Dropseed	SPARGANGLIA angustifolia	10.24' Hx 10'	# 3 Cal	2	2
OG	1	New England Aster	ASTER multiflorus	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Culver's Root	SCUTELLARIA ovata	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Fox Sedge	CAREX lasiocarpa	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Nodding Pink Onion	ALLIUM nodosum	10.24' Hx 10'	# 3 Cal	2	2
OG	1	Ohio Goldenrod	ROGALIS inodora	10.24' Hx 10'	# 3 Cal	2	2
							<b>TOTAL</b>

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**WALSH PROPERTIES, LLC.**

P.O. BOX 1497  
 MADISON, WI 53701

PROJECT:  
**5235 HIGH CROSSING BLVD**

PROJECT LOCATION:  
 CITY OF MADISON  
 DANE COUNTY, WI

JSD PROJECT NO.: 15-6792

SEAL/SIGNATURE:

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DESIGN: KJY, ABK 06/23/2015  
 DRAWN: KJY, ABK 06/23/2015  
 APPROVED: JLF 06/23/2015

PLAN MODIFICATIONS:	DATE:
UDC INITIAL - FINAL	05/27/2015
UDC INITIAL - FINAL RESUBMITTAL	06/24/2015
UDC FINAL RESUBMITTAL	08/26/2015
SITE PLAN VERIFICATION	09/22/2015
SITE PLAN VERIFICATION RESUBMITTAL	03/31/2016
SITE PLAN VERIFICATION RESUBMITTAL	04/13/2016

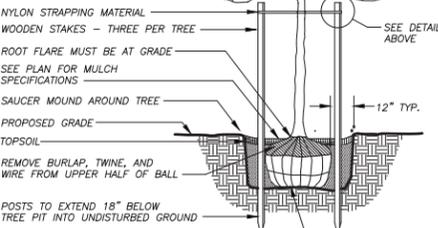
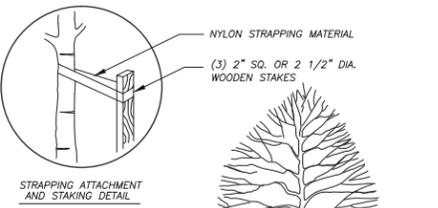
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SHEET TITLE:  
**LANDSCAPE PLAN**

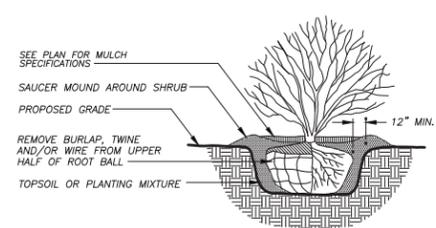
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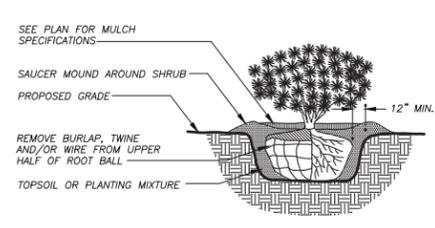
**1 DECIDUOUS TREE PLANTING DETAIL**  
N.T.S.

**2 L20**



**3 EVERGREEN SHRUB PLANTING DETAIL**  
N.T.S.

**2 L20**

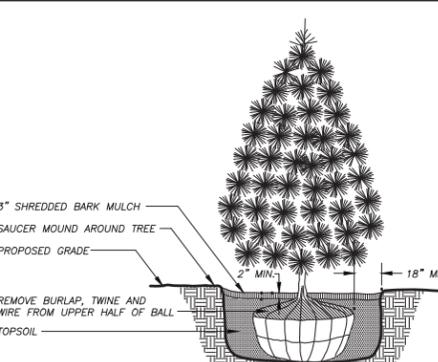


**4 EVERGREEN TREE PLANTING DETAIL**  
N.T.S.

**4 L20**

**LANDSCAPE NOTES AND SPECIFICATIONS**

- GENERAL:** ALL WORK IN THE R-O-W AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON REQUIREMENTS. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES. LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 1-800-382-5544 FOR UTILITY LOCATIONS AT LEAST THREE DAYS PRIOR TO DIGGING. HAND DIG AND INSTALL ALL PLANTS THAT ARE NEAR EXISTING UTILITIES. PROTECT PREVIOUSLY INSTALLED WORK OF OTHER TRADES. CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER PRIOR TO DIGGING AND PLACEMENT. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR.
- DELIVERY AND HANDLING:** DO NOT DELIVER MORE PLANT MATERIALS THAN CAN BE PLANTED IN ONE DAY. DELIVER PLANTS WITH LEGIBLE IDENTIFICATION LABELS. PROTECT PLANTS DURING DELIVERY AND DO NOT PRUNE PRIOR TO DELIVERY. ALL TREES AND SHRUBS SHALL BE PLANTED ON THE DAY OF DELIVERY; IF THIS IS NOT POSSIBLE, PROTECT THAT STOCK NOT PLANTED BY STORING STOCK IN A SHADED AREA PROTECTING THE ROOT MASS WITH WET SOIL, MOSS OR OTHER SUITABLE MEDIA AND KEEPING WELL WATERED. DO NOT REMOVE CONTAINER GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING. DO NOT PICK UP CONTAINER OR BALLED PLANTS BY STEM OR ROOTS. ALL PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE BALL. PERFORM ACTUAL PLANTING ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICES.
- GUARANTEE:** THE CONTRACTOR SHALL GUARANTEE ALL PLANTS THROUGH ONE (1) YEAR AFTER ACCEPTANCE BY OWNER. PLANTS SHALL BE ALIVE AND IN GOOD HEALTHY AND FLOURISHING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE CONTRACTOR SHALL REPLACE WITHOUT COST TO THE OWNER ANY PLANTS THAT ARE DEAD OR NOT IN A VIGOROUS THRIVING CONDITION. REPLACEMENT PLANTS SHALL BE OF THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED UNLESS OTHERWISE DIRECTED BY OWNER. RESTORE BEDS AS NECESSARY FOLLOWING PLANT REPLACEMENT, INCLUDING BUT NOT LIMITED TO BEDDING, EDGING, MULCH, ETC. REPAIR DAMAGE TO OTHER PLANTS OR PLANTING AREAS DURING PLANT REPLACEMENT AT NO COST TO OWNER. CONTRACTOR SHALL PROVIDE A TWO (2)-YEAR STRAIGHTENING GUARANTEE FOR ALL TREES.
- MATERIALS - PLANTS:** ALL PLANTS SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1-2004. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST 2 YEARS. PLANTS SHALL BE FRESHLY DUG (DURING THE MOST RECENT FAVORABLE HARVEST SEASON). PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY SUPERIOR IN FORM, COMPACTNESS, AND SYMMETRY. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECTS (ADULT EGGS, PUPAE OR LARVAE). THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH. PLANTS SHALL BE OF THE HIGHEST QUALITY, HAVE TYPICAL GROWTH HABITS FOR THEIR SPECIES, BE SOUND, HEALTHY, VIGOROUS AND FREE OF INJURY. PARKWAY TREES AND PARKING LOT TREES SHALL HAVE A MINIMUM BRANCHING HEIGHT OF SIX (6) FEET ABOVE THE GROUND TO ALLOW ADEQUATE VISUAL AND PHYSICAL CLEARANCE.
- MATERIALS - SOIL:** PLANTING SOIL/COMPACTED TOPSOIL SHALL MEET THESE REQUIREMENTS:  
1. PLANTING AREAS = 24"  
2. TREE PITS = SEE DETAILS
- PLANTING SOIL TO BE A MINIMUM 24" DEPTH, UNLESS OTHERWISE SPECIFIED AS ABOVE OR ON DETAILS. TOPSOIL TO BE CLEAN, FRIABLE LOAM FROM LOCAL SOURCE, FREE FROM STONES OR DEBRIS OVER 3/4" IN DIAMETER, AND FREE FROM TOXINS. TOPSOIL SHALL HAVE A pH VALUE BETWEEN 6 AND 7. TOPSOIL AND PLANTING SOIL SHALL BE TESTED TO CONFORM TO THESE SPECIFICATIONS AND SHALL BE AMENDED TO MEET THESE SPECIFICATIONS. DO NOT PLACE FROZEN OR MUDDY TOPSOIL. APPLY SOIL AMENDMENTS TO ALL LANDSCAPE BEDS PER SOIL TEST.**
- MATERIALS - ALL PLANTING AREAS SHALL RECEIVE FINELY SHREDDED, WEED FREE, HARDWOOD BARK MULCH (DYE-FREE) SPREAD TO A CONSISTENT DEPTH OF THREE INCHES OVER ENTIRE PLANTING AREA UNLESS OTHERWISE SPECIFIED ON PLANS. FERTILIZER SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY AND STATE OF WISCONSIN REQUIREMENTS.**
- MATERIALS - TREE RINGS:** ALL TREES PLANTED IN SODDED LAWN AREAS TO BE INSTALLED WITH A MINIMUM 5' DIAMETER SHREDDED HARDWOOD MULCH TREE RING SPREAD TO A CONSISTENT DEPTH OF THREE INCHES. ALL TREE RINGS SHOULD BE INSTALLED WITH A 5" DEPTH SHOVEL CUT EDGE, ANGLED 45 DEGREES INTO SOIL AT A 5' DIAMETER ABOUT THE CENTER OF THE TREE PLANTING. A PRE-EMERGENT GRANULAR WEED-PREVENTER SHOULD BE MIXED WITH MULCH USED TO INSTALL TREE RING AS WELL AS TOPICALLY APPLIED TO FINISHED INSTALLATION OF TREE RING.
- MATERIALS - WEED BARRIER FABRIC:** ALL PLANTING BEDS SHALL BE INSTALLED WITH WOVEN WEED BARRIER FABRIC. NO PLASTIC/IMPERVIOUS BARRIERS WILL BE PERMITTED. EXAMPLE: BLACK VISQUEEN.
- MATERIALS - EDGING:** EDGING SHALL BE 5" DEEP, POLYETHYLENE EDGING. OWNER SHALL APPROVE SPECIFICATION PROVIDED BY LANDSCAPE CONTRACTOR.
- MATERIALS:** SOD ALL AREAS SPECIFIED ON PLAN PER THESE NOTES: TURFGRASS SOD: CLASS OF TURFGRASS SOD SHALL BE PREMIUM GRADE APPROVED TURFGRASS SOD. ONLY IMPROVED TYPES OF SOD (ELITE) ARE ACCEPTABLE. TURFGRASS SHALL BE MACHINE CUT AT A UNIFORM THICKNESS OF .60 INCH, PLUS OR MINUS .25 INCH, AT TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH. LARGE ROLL TURFGRASS SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH (36-48 INCHES) AND LENGTH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE. STANDARD SIZE SECTIONS OF TURFGRASS SOD SHALL BE STRONG ENOUGH SO THAT IT CAN BE PICKED UP AND HANDLED WITHOUT DAMAGE. TURFGRASS SOD SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL. POST-PLANT IRRIGATION WILL BE NECESSARY TO ENSURE SOD STAYS ALIVE AND ROOTS INTO SOIL. THE CONTRACTOR IS RESPONSIBLE FOR WATERING SOD UNTIL TIME OF ACCEPTANCE BY THE OWNER. TURFGRASS SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED/TRANSPANTED WITH A PERIOD OF 24 HOURS. TURFGRASS SOD SHALL BE RELATIVELY FREE OF THATCH, UP TO .5 INCH ALLOWABLE (UNCOMPRESSED). TURFGRASS SOD SHALL BE REASONABLY FREE (10 WEEDS/100 SQ. FT.) OF DISEASES, NEMATODES AND SOIL-BORNE INSECTS. ALL TURFGRASS SOD SHALL BE FREE OF GRASSY AND BROAD LEAF WEEDS. THE SOD SUPPLIER SHALL MAKE RECOMMENDATIONS TO THE CONTRACTOR REGARDING WATERING SCHEDULE. THE WATERING SCHEDULE SHOULD BEGIN IMMEDIATELY AFTER SOD IS INSTALLED.
- PRUNING:** THE CONTRACTOR SHALL PRUNE ALL TREES AND REPAIR ANY INJURIES THAT OCCURRED DURING THE PLANTING PROCESS. DOUBLE LEADERS, DEAD BRANCHES, AND LIMBS DAMAGED OR BROKEN DURING THE PLANTING PROCESS SHALL BE PRUNED. THIS SHALL BE THE ONLY PRUNING ALLOWED AT PLANTING. PRUNING SHALL CONFORM TO AMERICAN STANDARD FOR TREE CARE OPERATIONS, ANSI A300. PRUNE TREES IN ACCORDANCE WITH NAA GUIDELINES. DO NOT TOP TREES. PRUNE SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICES. ON CUTS OVER 3/4" IN DIAMETER AND BRUISES OR SOARS ON BARK, TRACE THE INJURED CAMBIAL LAYER BACK TO LIVING TISSUE AND REMOVE. SMOOTH AND SHAPE WOUNDS SO AS NOT TO RETAIN WATER AND COAT THE TREATED AREA WITH AN APPROVED ANTISEPTIC TREE PAINT.
- CLEANUP:** DISPOSED OF EXCESS SOIL. REMOVE ALL CUTTINGS AND WASTE MATERIALS. SOIL, BRANCHES, BINDING AND WRAPPING MATERIALS, REJECTED PLANTS, OR OTHER DEBRIS RESULTING FROM ANY PLANTING SHALL BE PROMPTLY CLEANED UP AND REMOVED. THE WORK AREA SHALL BE KEPT SAFE AND NEAT AT ALL TIMES UNTIL THE CLEANUP OPERATION IS COMPLETED. UNDER NO CIRCUMSTANCES SHALL THE ACCUMULATION OF SOIL, BRANCHES OR OTHER DEBRIS BE ALLOWED UPON A PUBLIC PROPERTY IN SUCH A MANNER AS TO RESULT IN A PUBLIC HAZARD. LIKEWISE, UNDER NO CIRCUMSTANCES SHALL ANY DEBRIS OR INCIDENTAL MATERIALS BE ALLOWED UPON ADJACENT PRIVATE PROPERTY.
- MAINTENANCE:** (CONTRACTOR) FOR ALL PLANTINGS, BUFFER AREAS AND SEEDED LAWN AREAS. THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS AND LAWN AREAS FOR AT LEAST A PERIOD OF 60 DAYS, OR UNTIL FINAL ACCEPTANCE FROM THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY WATERING PLANTS AND LAWN/TURFGRASS DURING THIS 60 DAY ESTABLISHMENT PERIOD. CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF HEALTHY VIGOROUS PLANT MATERIALS AND LAWN/TURFGRASS GROWTH. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRUNING OF PLANT MATERIALS, AND SHAPING AND/OR REPLACEMENT OF DEFICIENT BARK MULCH DURING THIS PERIOD. LONG TERM PLANT MATERIALS AND LAWN/TURFGRASS MAINTENANCE AND ANY PROGRAM FOR SUCH IS THE RESPONSIBILITY OF THE OWNER. ALL PLANTINGS AND LAWN/TURFGRASS AREAS SHALL BE MAINTAINED IN A MANICURED CONDITION.
- MAINTENANCE:** (OWNER) THE OWNER IS RESPONSIBLE FOR THE CONTINUED MAINTENANCE, REPAIR AND REPLACEMENT OF ALL LANDSCAPING MATERIALS AND WEED BARRIER FABRIC AS NECESSARY FOLLOWING THE ONE (1) YEAR CONTRACTOR GUARANTEE PERIOD.



**5 EVERGREEN TREE PLANTING DETAIL**  
N.T.S.

**4 L20**

Project Location / Address: 2906 MARKETPLACE DRIVE MADISON, WI 53719  
Name of Project: 5235 HIGH CROSSING BLVD.  
Owner / Contact: WALSH PROPERTIES, LLC.  
Contact Phone: (608) 848-5060 Contact Email: JUSTIN.FRAHM@JSDINC.COM

\*\* Landscape plans for areas greater than ten thousand (10,000) square feet in size MUST be prepared by a registered landscape architect. \*\*

**Applicability:**  
The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lot, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless all of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

- The area of site disturbance is less than ten percent (10%) of the entire development site during any ten (10) year period.
- Green floor area is only increased by ten percent (10%) during any ten (10) year period.
- No demolition of a principal building is involved.
- Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

**Landscape Calculations and Distribution:**  
Repered landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

(a) For all lots except those described in (b) and (c) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.

Total square footage of developed area	49,993
Total landscape points required	833

(b) For lots larger than five (5) acres, points shall be provided at five (5) points per three hundred (300) square feet for the first five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.

Total square footage of developed area	
Five (5) acres = 217,800 square feet	
First five (5) developed acres = 2,630 points	
Remainder of developed area	
Total landscape points required	

(c) For the Industrial - Limited (IL) and Industrial - General (IG) districts, one (1) point shall be provided per one hundred (100) square feet of developed area.

Total square footage of developed area	
Total landscape points required	

10/2013

**Tabulation of Points and Credits**  
Use the table to indicate the quantity and points for all existing and proposed landscape elements.

Plant Type/Element	Minimum Size at Installation	Points	Credits/Existing Landscaping		New/Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	7" inch caliper measured diameter at breast height (dbh)	35			17	595
Tall evergreen tree (i.e. pine, spruce)	5-6 feet tall	35				
Ornamental tree	1 1/2 inch caliper	15			5	75
1 story evergreen shrub (i.e. arbovitae)	3-4 feet tall	10			14	140
Shrub, deciduous	#3 gallon container size, Min. 12"-24"	3			77	231
Shrub, evergreen	#3 gallon container size, Min. 12"-24"	4			54	216
Ornamental grasses/perennials	#1 gallon container size, Min. 8"-15"	2			586	1172
Ornamental/decorative fencing or wall	n/a	4 per 10 linear ft.				
Existing significant specimen tree	Minimum size: 2 1/2 inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch dbh. Maximum points per tree: 200				
Landscape furniture for public seating and/or transit connections	* Furniture must be within developed area, publicly accessible, and cannot comprise more than 5% of total required points.	5 points per "unit"				
<b>Sub Totals</b>						2429

Total Number of Points Provided: 2429

\* As determined by ANSI, ANSI-A American standards for nursery stock. For each size, minimum plant sizes shall conform to the specifications as listed in the current American Standard for Nursery Stock.

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SERVICES PROVIDED TO:  
**WALSH PROPERTIES, LLC.**

P.O. BOX 1497  
MADISON, WI 53701

PROJECT:  
**5235 HIGH CROSSING BLVD**

PROJECT LOCATION:  
CITY OF MADISON  
DANE COUNTY, WI

JSD PROJECT NO.: 15-6792

SEAL/SIGNATURE:

ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

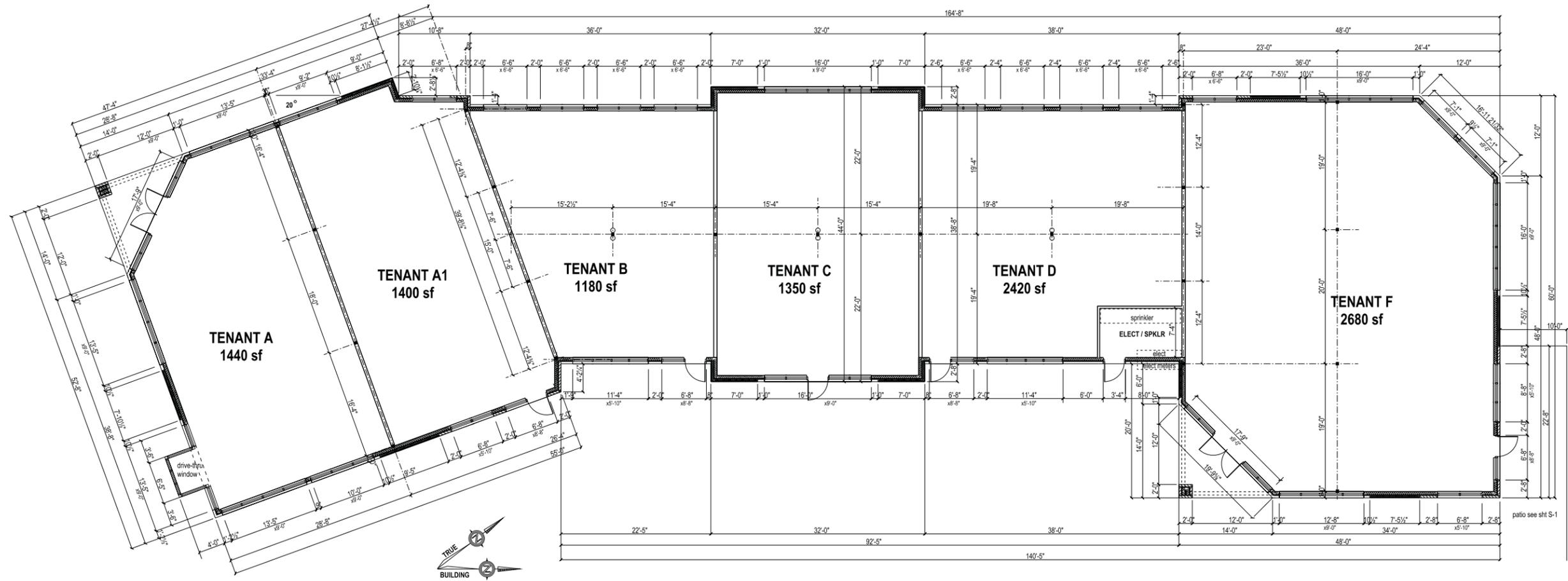
DESIGN: K.J.Y., A.B.K. 06/23/2015  
DRAWN: K.J.Y., A.B.K. 06/23/2015  
APPROVED: J.L.F. 06/23/2015

PLAN MODIFICATIONS: DATE:  
UDC INITIAL - FINAL 05/27/2015  
UDC INITIAL - FINAL RESUBMITTAL 06/24/2015  
UDC FINAL RESUBMITTAL 08/26/2015  
SITE PLAN VERIFICATION 09/22/2015  
SITE PLAN VERIFICATION RESUBMITTAL 04/13/2016

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SHEET TITLE:  
**LANDSCAPE DETAILS, NOTES AND SPECIFICATIONS**

SHEET NUMBER:  
**L2.0**



**TENANT SUITE FLOOR PLAN**

1/8"=1'-0" AREAS SHOWN ARE APPROXIMATE

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		DRAWN BY: <b>TM</b>	
1925 Tarragon Drive, Madison, WI, 53716-2332 608-467-7455 E-mail: mccoysengineering@charter.net		APPROVED BY: 	
PROJECT: <b>HIGH CROSSING RETAIL CENTRE</b>		DATE: <b>4-11-16</b>	
LOCATION: <b>HIGH CROSSING BLVD MADISON, WI</b>		SCALE: <b>As Shown</b>	
SHEET TITLE: <b>TENANT SUITE PLAN</b>		DRAWING NO: <b>T1512</b>	
		SHEET NO: <b>A-2a</b>	





*75 Enterprise Rd.  
Delafield, WI 53018  
Phone 262-646-6828*

## **HIGH CROSSINGS BOULEVARD**

CUT SHEET PACKAGE FOR TYPES:

OA  
OA1  
OA2a  
OR  
OW  
OW1

SUPREME STRUCTURES

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# McGraw-Edison

## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #	GLEON-AE-02-LED-E1-SL4-DP-7030	Type	OA
Project	High Crossings Boulevard	Date	7-10-15
Comments	Single Head Pole		
Prepared by	KRK		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

### Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

**Warranty**  
Five-year warranty.

## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

AREA/SITE LUMINAIRE

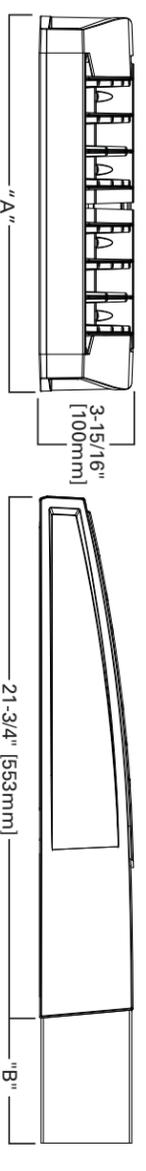


**Optics**  
Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed. The

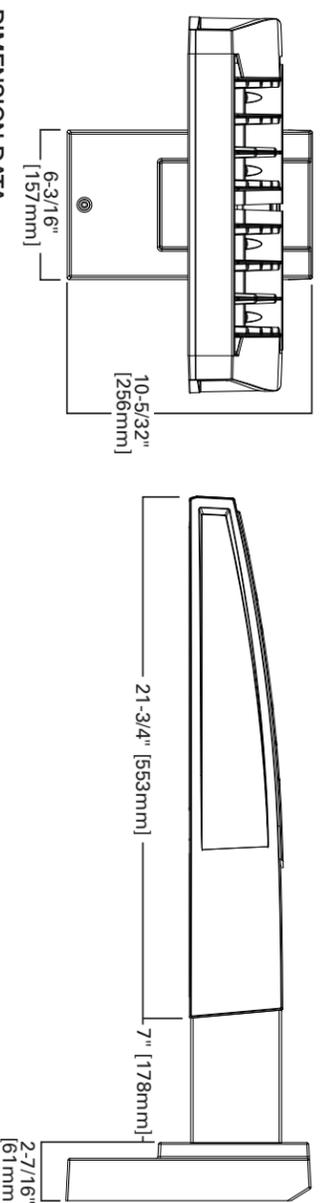
**Mounting**  
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during

## DIMENSIONS

### POLE MOUNT



### WALL MOUNT



## DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

**NOTES:** 1. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 2. EPA calculated with optional arm length.



\*www.designlights.org



**CERTIFICATION DATA**  
UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium® Qualified\*

### ENERGY DATA

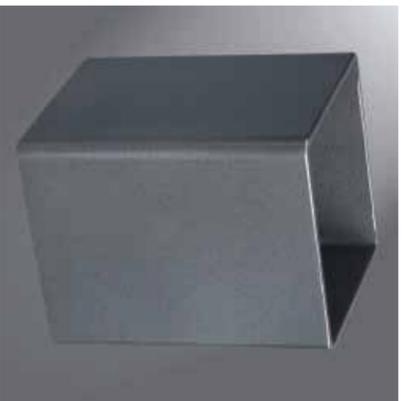
**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)



TD500020EN  
2015-06-04 13:56:33

# COOPER LIGHTING

Catalog #	SSS4A20SLN1G	Type	OA
Project	High Crossings Boulevard	Date	7-10-15
Comments	Single Head Pole		
Prepared by	KRK		



## SSS SQUARE STRAIGHT STEEL

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-.39' mounting heights
- Drilled or tenon (specify)

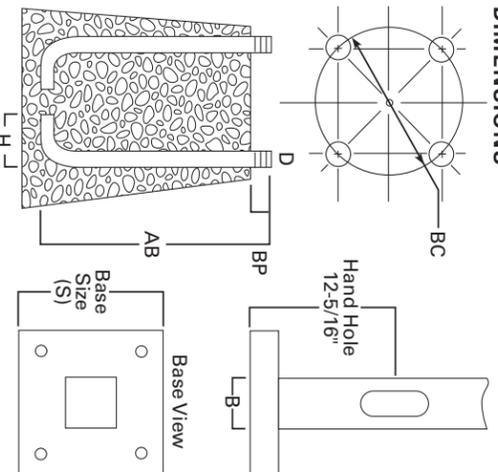
### ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple <sup>2</sup> 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet <sup>3</sup> E=GFCl G=Ground Lug Outlet <sup>3</sup> H=Additional Hand Hole <sup>4</sup> L=Drilled for Bumper Gitter V=Vibration Damper
<p><b>N=Type N Drilling</b></p>									

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receiptable not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

### DIMENSIONS



**WARNING:** The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty from Eaton's Cooper Lighting business and may result in pole failure causing serious injury or property damage. Upon request, Eaton's Cooper Lighting business will supply information regarding total loading capacity. The pole warranty from Eaton's Cooper Lighting business is void unless poles are used and installed as a complete pole/luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product. Specifications and dimensions subject to change without notice. Consult your Eaton's Cooper Lighting business representative or visit [www.cooperlighting.com](http://www.cooperlighting.com) for available options, accessories and ordering information.

**Cooper Lighting**  
by **EATON**

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2014-04-02 13:41:02

# McGraw-Edison

## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #	GLEON-AE-02-LED-E1-SL4-DP-7030	Type	OA1
Project	High Crossings Boulevard	Date	7-10-15
Comments	Single Head Pole		
Prepared by	KRK		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments.

For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

### Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during



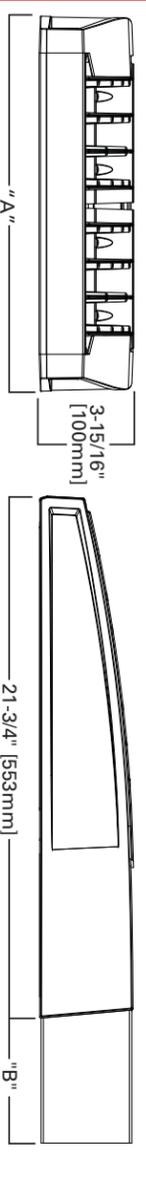
## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

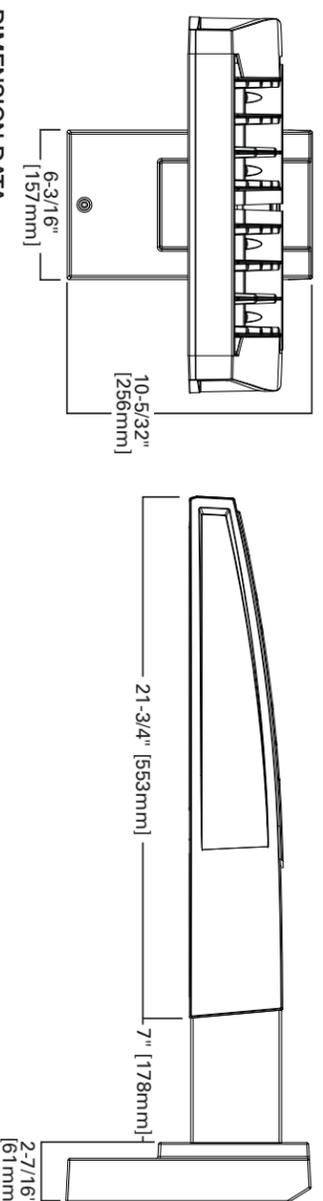
AREA/SITE LUMINAIRE

## DIMENSIONS

### POLE MOUNT



### WALL MOUNT



## DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: **1** Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. **2** EPA calculated with optional arm length.



\*www.designlights.org



**CERTIFICATION DATA**  
UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium® Qualified\*

### ENERGY DATA

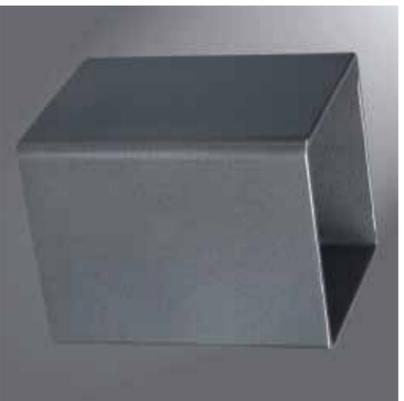
**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)



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# COOPER LIGHTING

Catalog #	SSS4A20SLN1G	Type	OA1
Project	High Crossings Boulevard	Date	7-10-15
Comments	Single Head Pole		
Prepared by	KRK		



## SSS SQUARE STRAIGHT STEEL

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-.39' mounting heights
- Drilled or tenon (specify)

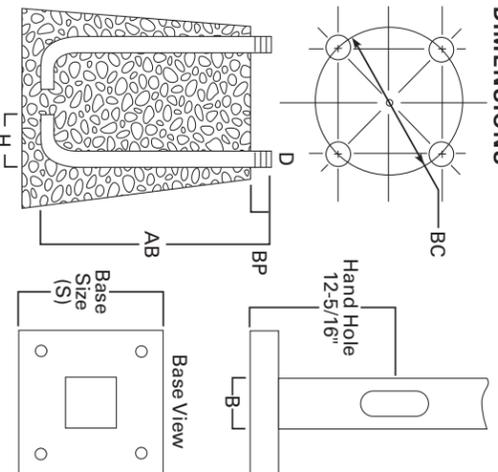
### ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple <sup>2</sup> 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet <sup>3</sup> E=GFCl Convenience Outlet <sup>3</sup> G=Ground Lug H=Additional Hand Hole <sup>4</sup> L=Drilled for Bumper Glitter V=Vibration Damper

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receiptable not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

### DIMENSIONS



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**Cooper Lighting**  
by **EATON**

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2014-04-02 13:41:02

# McGraw-Edison

## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #	GLEON-AE-02-LED-E1-SL4-DP-7030	Type	OA2a
Project	High Crossings Boulevard	Date	7-10-15
Comments	Dual Head Pole		
Prepared by	KRK		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments.

For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

### Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during



## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

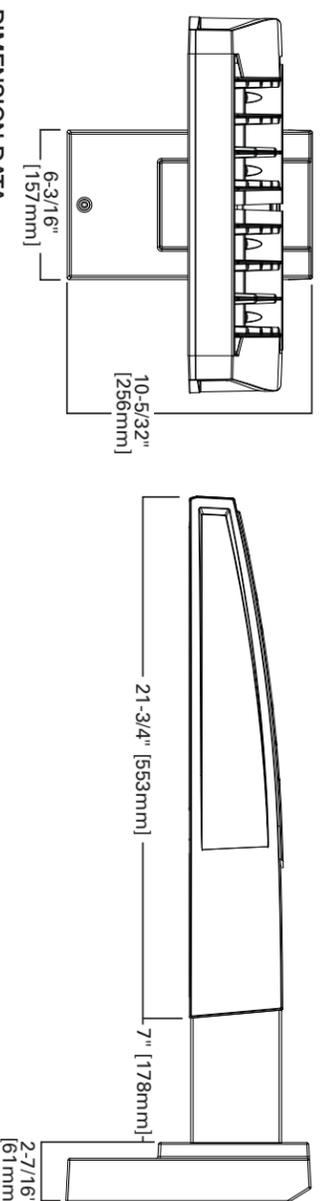
AREA/SITE LUMINAIRE

## DIMENSIONS

### POLE MOUNT



### WALL MOUNT



## DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: **1** Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. **2** EPA calculated with optional arm length.



\*www.designlights.org



**CERTIFICATION DATA**  
UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium® Qualified\*

### ENERGY DATA

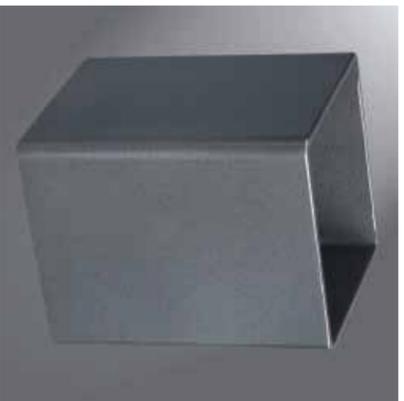
**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)



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# COOPER LIGHTING

Catalog #	SSS4A20SLN2G	Type	OA2a
Project	High Crossings Boulevard	Date	7-10-15
Comments	Dual Head Pole		
Prepared by	KRK		



## SSS SQUARE STRAIGHT STEEL

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-.39' mounting heights
- Drilled or tenon (specify)

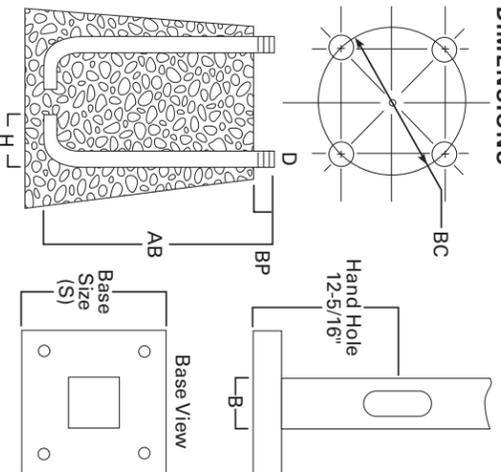
### ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet <sup>3</sup> E=GFCl Convenience Outlet <sup>3</sup> G=Ground Lug H=Additional Hand Hole <sup>4</sup> L=Drilled for Bumper Gitter V=Vibration Damper
<p><b>N=Type N Drilling</b></p>									

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4" above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

### DIMENSIONS



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**Cooper Lighting**  
by **EATON**

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2014-04-02 13:41:02

## HALO LED NON-IC HOUSING for NEW CONSTRUCTION

The H750T is a dedicated LED new construction housing to be used with designated HALO LED modules. The H750T is designed for non-insulated ceilings. If insulation is present it must be kept three inches from all sides of the housing. The AIRTITE™ housing design prevents airflow between conditioned and unconditioned spaces, saving on both heating and air conditioning costs. The LED connector system provides high efficacy code compliance when used with designated HALO LED modules and trims.

Catalog #	H750T	Type	
Project	High Crossings Blvd.	OR	
Comments	Housing	Date	
Prepared by	KRK	7-10-15	

**HALO**®

## DESIGN FEATURES

### Housing

Aluminum with white semi-gloss paint finish.

### Plaster Frame

Galvanized steel frame. Housing adjusts in plaster frame to accommodate up to 1" ceiling thickness. Regressed locking screw for securing hanger bars. Cutouts included for easily crimping hanger bars in position.

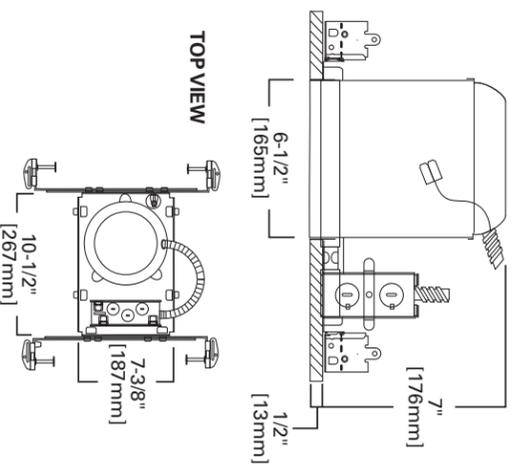
### Slide-N-Side™ Junction Box

- Positioned to accommodate straight conduit runs.
- Seven ½" trade size conduit knockouts with true pry-out slots.

- Slide-N-Side wire traps allow non metallic sheathed cable to be installed without tools and without removing knockouts.
- Allows wiring connections to be made outside the box.
- Simply insert the cable directly into the trap after connections are made.
- Accommodates the following standard non-metallic sheathed cable type:
  - U.S. #14/2, #14/3, #12/2, 12/3
  - Canada: #14/2, #14/3, #12/2

### GOT-NAIL!™ Pass-N-Thru™ Bar Hangers

- Bar Hanger features include
  - Pre-installed nail easily installs in regular lumber, engineered lumber and laminated beams.



- Safety and Guidance system prevents snagging, ensures smooth, straight nail penetration and allows bar hangers to be easily removed if necessary

- Automatic leveling flange aligns the housing and allows holding the housing in place with one hand while driving nails.
- Housing can be positioned at any point within 24" joist spans
- Score lines allow tool-free shortening for 12" joists and bar hangers do not need to be removed for shortening.
- Bar hangers may be repositioned 90° on plaster frame
- Integral T-bar clip snaps onto T-bars – no additional clips are required.

### LED Module Connection

Halo LED modules simply install with a plug-in 120V-277V rated line voltage wiring connector (UL and CSA Listed Luminaire Disconnect).

This non-screw-base connection preserves the high efficacy rating and prevents use of low efficacy incandescent sources (see LED Module specifications).

### Caution

Connection is rated for 120V and 277V input. Installer must verify LED module voltage is compatible with the applicable voltage input. If uncertain, consult a qualified electrician.

### Labels

- UL/cUL Listed 1598 Luminaire
- CE Marking - "Conformité Européenne" conformity with the Council of European Communities Directives, meeting internationally recognized compliance when used with ML56 Series LED modules
- Listed for Feed Through
- Listed for Damp Location
- Listed for Wet Location with select trims
- Rated for 20W maximum

### Qualification

May be used with qualified Halo LED modules and designated trims for High Efficacy Luminaire Compliance:

- State of California Title 24
- International Energy Conservation Code (IECC)
- New York State Energy Conservation Construction Code - AIR-TITE™ Compliant
- Certified under ASTM-E283 standard for air-tight construction when used with ML56 series, RL56 series and ML7 series trims



**H750T**

**6" New Construction NON-IC AIR-TITE™ Housing**  
For Halo LED Modules and Trims  
- ML56 Series  
- RL56 Series  
- RA56 Series

**High Efficacy LED Housing**

**FOR USE IN NON-INSULATED CEILINGS**

**CAN BE USED IN INSULATED CEILINGS BUT INSULATION MUST BE KEPT 3" FROM ALL SIDES OF THE HOUSING**



Qualified and compliant with select trims. Refer to ENERGY STAR® Qualified Products List and CEC (T24) Appliance Database for listings.

**Cooper Lighting**  
by **EATON**

ADV141508  
6/17/2014

Catalog #	ML712835TUNVD010	Type	
Project	High Crossings Blvd.	OR	
Comments	With 492-PS TRIM	Date	7-10-15
Prepared by	KRK		

## Description

The Halo LED 1200 Series High Lumen Modules are universal voltage (120-277V) rated for commercial and residential applications. The Halo LED ML7128xxTUNVD010 Modules are designed for retrofit applications with an Edison screw base adapter (included) for use in compatible existing 6" nominal Non-IC housings OR may also be used in new construction with the LED dedicated Non-IC housing Series H750Tx. Halo LED 1200 Series offers a selection of four color temperatures: 2700K, 3000K, 3500K, 4000K. Halo LED offers superior optical design that yields productive beam lumens, good cutoff and low glare.

## Specification Features

The Halo LED 1200 Series offers comparable light output and distribution of a 90W PAR38 halogen lamp, a 120W BR40 incandescent lamp, or a 32W compact fluorescent luminaire (lamp & reflector trim), while consuming less than 25 watts.

### Dimming

The HALO LED 1200 Series luminaire offers 0-10V dimming capability to <10% with compatible 0-10V dimming controls.

### Quality of Light

Halo 1200 Series Provides excellent color rendering (80 CRI), and a selection of four color temperatures (2700K, 3000K, 3500K and 4000K). CRI and color temperature performance conform to parameters established by ENERGY STAR® SSL standards (refer to ANSI-C78.377 -2008 for CCT specifications). LED's have virtually no ultraviolet and minimal infrared wavelengths, and they do not direct heat like conventional lamps.

### Optical Design

Optical design yields productive beam lumens, 50° cutoff, and low glare.

### Life

Rated for 50,000 hours at 70% lumen maintenance.

### Compatibility

The Halo ML7128xxTUNVD010 LED modules are designed for use in the dedicated H750Tx series Non-IC housings OR for retrofit applications in existing Halo or ALL-PRO™ H7T/ET7 Non-IC housings. The ML7128xxTUNVD010 Halo LED modules are designed for use in Non-IC construction only. Compatible HALO and ALL-PRO housings include model numbers:

- Dedicated LED Housings:

- H750TDD010, H750RTDD010 and H750TCPDD010 Non-IC Housing with 0-10V dimming connections included (use these housings for 0-10V dimming)
- H750T, H750TCP Non-IC Housing (Non-Dim functionality only as these housings do not provide 0-10V dimming connections)
- Halo and All-Pro Incandescent Housings:

- H7Tx and ET7x Non-IC Housing (Non-Dim functionality only as these housings do not provide 0-10V dimming connections)

### Screw Base Adapter

Edison screw-base adapter supplied with module allows simple wiring connection to existing housing.

### Module Construction

Durable die-cast and extruded aluminum construction conducts heat away from the LED keeping the junction temperatures below specified maximums even when installed in non-insulated ceiling environments.

### Air-Tite™ Rating

The Halo LED module has passed restricted air flow testing, and now qualifies any housing to meet air-tight building codes. Certified under ASTM-E283 standards.

### LED Driver

The LED module is controlled by a high efficiency driver with a power factor of >.90 at an input power of 90V-305V, 50/60Hz. Driver has integral thermal protection in the event of over temperature or internal failure.

### Warranty

Cooper Lighting provides a three year limited warranty on the Halo LED Luminaire which includes the LED Module, LED Recessed Non-IC Housing and LED trims.

## LED Module in New or Existing Non-IC Construction – Housings other than Halo or All-Pro

If used in Non-IC construction with recessed housings other than Halo or All-Pro the Cooper Lighting 3-year warranty applies to the LED Module and Trim only. As with any electrical installation, a qualified electrician must ensure compatibility of use with a particular housing; this includes all applicable national and local electrical and building codes. Installer is responsible to securely retain the LED Module and Trim in a housing at time of installation.

### Compliance Labels

- UL/cUL Listed
- CE Marking - "Conformité Européene" conformity with the Council of European Communities Directives, meeting internationally recognized compliance
- UL/cUL Damp Location Listed
- UL/cUL Wet Location, Protected Ceiling Listed and IP66 rated with designated trims
- RoHS Compliant
- For use in Non-IC housings only. If insulation is present it must be kept a minimum of 3" from all sides and top of housing.

### Qualification

Can be used to meet High Efficacy luminaire requirements (when used with designated trims):

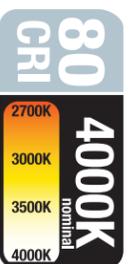
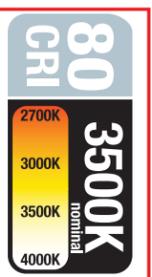
- ENERGY STAR®
- International Energy Conservation Code (IECC) High Efficacy

### Air-Tite™ Compliant

- Washington State Energy Code
- Certified Under ASTM-E283



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.



## ML7128xxTUNVD010

**6" LED module and trim for new construction OR retrofit applications**

**1200 Series LED 0-10V dimmable module**

**2700°K, 3000°K, 3500°K, 4000°K correlated color temperature**

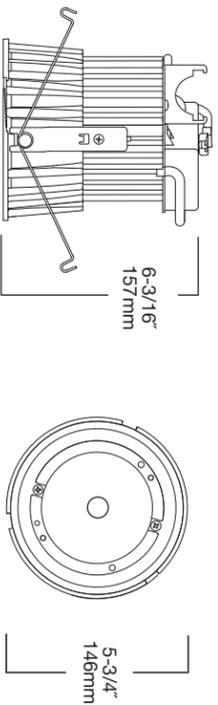
**494WB06 Halo LED series trim**

**For use in non-insulated ceilings OR insulated ceilings**  
**But insulation must be kept 3" from all sides of fixture**

### 1200 Series Energy Data:

(Values at non-dimming line voltage)	
Minimum Starting Temp: -30°C (-22°F)	
EMV/PFI: FCC Title 47 CFR, Part 18, Class B (Consumer)	
Sound Rating: Class A standards	
Input Voltage: UNV (90V - 305V)	
Power Factor: >0.90 (at nominal input 120/230/240/277 VAC & 100% of Rated Output Power)	
Input Frequency: 47-63 Hz	
THD: <21%	
Input Power: 24.8W	
Input Current at 120V: 207mA	
Input Current at 277V: 90mA	
Maximum Non-IC Ambient Continuous Operating Temperature 40°C (104°F)	

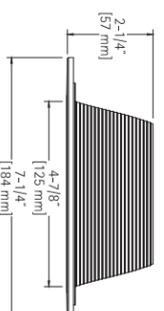
**Dimensions**



- 494WB06 White baffle with white trim ring**
- Halo matte white finish die-cast trim ring
  - Halo Matte White die-cast baffle
  - Trim ring height of .160" at OD and .180" at ID
  - Provides clearance for remodeler flange and gasket for Air-Tite™ seal



**Accessory:**  
494OPTIC - over optic lens



**494OPTIC Lens Over-Optic for Open LED Trims**

Optional accessory - diffusing lens drops into top of open 494 Series LED trims. Precision formed lens media provides diffusion of LED source brightness.

Compatible with: **494WB06**



**ML7RAB Retrofit Adapter Band for Housings without Torsion Spring Receivers**

In many retrofit installations the existing (6" nominal aperture) housings have Torsion Spring Receivers that are used to install trims. Many of these housings will allow direct installation of the LED Module. In some existing installations housings do not have torsion spring receivers. The ML7RAB was designed for installation into those housings. The ML7RAB kit can retrofit four non-torsion spring housings; the kit includes:

- 4- Retrofit Adapter Bands (1 per retrofit housing)
- 16- Metal-piercing screws (4 per adapter)
- 8- Retrofit Locking Wire Nuts (2 per adapter)



**Oversize Rings**

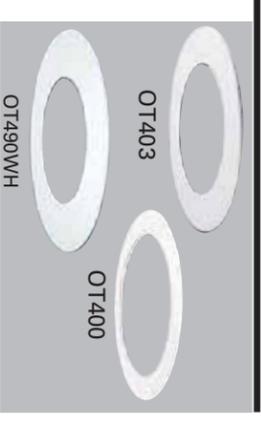
For use when ceiling opening is irregular or cut too large. The oversized ring is installed behind the Halo LED trim ring to mask irregularities or cutout errors of the ceiling opening.

- **OT400P** = Oversize White Metal Trim Ring 6" ID x 9-1/4" OD
- **OT403P** = Oversize White Plastic Trim Ring 6" ID x 8" OD

**Oversize LED Trim Ring**

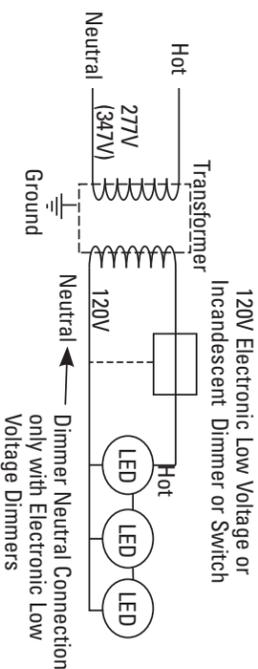
For use when ceiling opening is irregular or cut too large.

- **OT490WH** = LED Oversize White Die-Cast Aluminum Trim Ring 5-1/8" ID x 9-1/4" OD - attaches to LED module, substitute for standard LED trim ring.



**Application Note** - H277 and H347 step-down transformers are qualified to drive multiple Halo LED modules on a single circuit in Non-IC construction. Installation of these transformers on individual fixtures on circuits with multiple LED loads is not recommended. H277 is 300VA and qualified to drive up to 15 Halo LED ML706x modules. H347 is 75VA and qualified to drive up to 3 Halo LED ML706x modules. Installation of individual H277 or H347 transformers on each LED downlight fixture in a multiple LED loaded circuit is not recommended due to resulting multiple inductive currents pulled by each transformer. In this situation the majority of the power would then be reactive (VARS) and not real (WATTS). If H277 or H347 transformers should be used individually on each LED fixture in a single circuit, then that circuit should be sized for lowered power factor as well as increased apparent power on the circuit. H277 and H347 are UL/cUL listed for use with Halo housings: H750T, H750TCP, H7T, H7TNB, H7RT, H750TDD010, H750RTD010, H750TCPD010 housings.

**Transformer with Dimmer /Switch on Secondary**

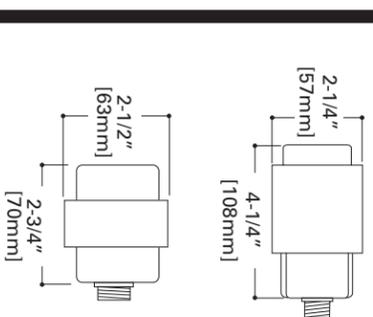
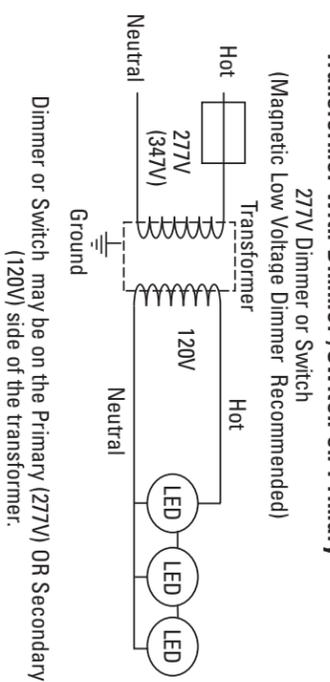


**H277**  
277V Step Down  
Transformer,  
300VA



**H347**  
347V Step Down  
Transformer,  
75VA

**Transformer with Dimmer /Switch on Primary**



**H277**  
**H347**

**Step Down Transformers**  
H277=Steps 277 line voltage down to 120 volts. Attaches to knockout on first fixture's junction box in a circuit and is 300VA rated (15 modules max.). H277 is a UL recognized Component listed under the luminaire UL/cUL listing for Non-IC housings and LED Module.

H347=Steps 347 line voltage down to 120 volts. Attaches to knockout on first fixture's junction box in a circuit and is 75VA rated (3 modules max.). H347 is a CSA/UL Listed Component for use under the luminaire UL/cUL listing with Non-IC housings and a LED Module.

**Transformer Load - H277 (300VA)**

- H277 Transformer at full loading consumes a maximum of 16W of power
- When dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 6.5W and in "ON" mode at 16W maximum with full loading.
- When a dimmer or switch is on the primary (277V) side of the transformer, power is consumed only in "ON" mode to a maximum of 16W under full loading.

**Transformer Load - H347 (75VA)**

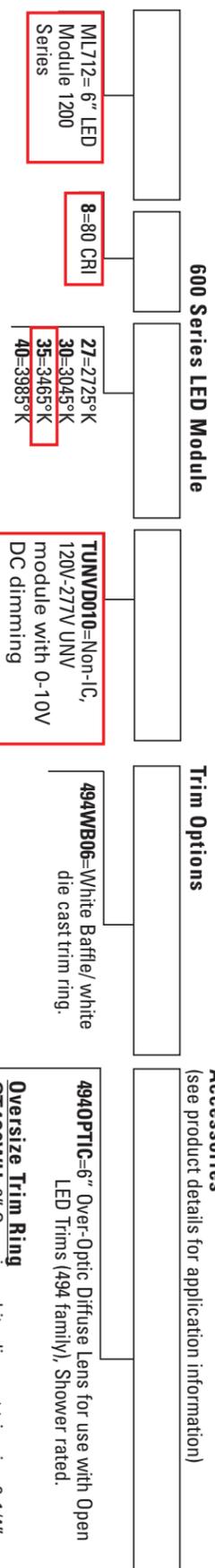
- H347 Transformer at full loading consumes a maximum of 15W of power
- When dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 2.5W and in "ON" mode at 15W maximum with full loading.
- When a dimmer or switch is on the primary (347V) side of the transformer, power is consumed only in "ON" mode to a maximum of 15W under full loading.

**Protected / Non-insulated Soffits, Porches, and Canopies**

Halo LED modules when used with Non-IC recessed housings in Non-Insulated protected soffits, porches or canopies offers a solution for outdoor accent lighting. Halo LED is rated for operation from -30°C to 40°C when used with H7T, H7TNB, H7RT, ET700, ET700R, H750T, H750TCP, H750RTD010, H750RTD010, H750TCPD010 Series non-IC housings.

**Ordering Information**

Sample number: **ML709827ICAT120D 494WB06**  
Order LED Module and trim separately



**Trim Options**

**Accessories**  
(see product details for application information)

**4940PTIC=6"** Over-Optic Diffuse Lens for use with Open LED Trims (494 family), Shower rated.

**Over-size Trim Ring**

**OT490WH=6"** Over-size white die-cast trim ring 9-1/4" O.D. Attaches to LED module, substitute for standard trim ring shipped with trims.  
**OT400P=Over-size White Metal Trim Ring 6"** ID x 9-1/4" OD  
**OT403P=Over-size White Plastic Trim Ring 6"** ID x 8" OD

**Transformer**

**H277=300VA** Transformer - Steps 277 line voltage down to 120V (see App. Note)  
**H347=75VA** Transformer - Steps 347 line voltage down to 120V (see App. Note)

**Retrofit**

**ML7RAB=**Retrofit Adapter Band for Housings without Torsion Spring Receivers. The ML7RAB kit supplies parts to retrofit four housings; the kit includes: 4 – Retrofit Adapter Bands with screws and locking wire nuts.

**Eaton**  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
www.eaton.com/lighting

**Canada Sales**  
5925 McLaughlin Road  
Mississauga, Ontario L5R 1B8  
P: 905-501-3000  
F: 905-501-3172

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Printed in USA  
Publication No. TD518016EN  
June 22, 2015

Eaton is a registered trademark.  
All other trademarks are property of their respective owners.  
Product availability, specifications, and compliances are subject to change without notice.

**DESCRIPTION: LED Trims**



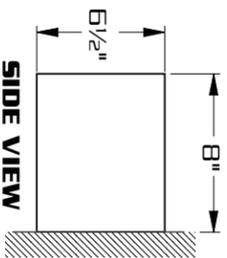
Multiple reflector and baffle options allow the Halo LED recessed luminaire to be used anywhere in the home. Choose the best reflector finish and trim for the interior space. Aesthetically pleasing regressed shower trim is available for applications requiring wet location listings.

<p><b>494P06 White Reflector with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• Halo matte white finish</li><li>• Die-cast trim ring and aluminum reflector</li><li>• Trim ring height of .160" at OD and .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>494SC06 Specular Reflector with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• Halo matte white finish trim ring</li><li>• Die-cast trim ring and aluminum reflector</li><li>• Trim ring height of .160" at OD and .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>494H06 Haze Reflector with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• Halo matte white finish trim ring</li><li>• Die-cast trim ring and aluminum reflector</li><li>• Trim ring height of .160" at OD and .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>494WB06 White Baffle with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• Halo matte white finish</li><li>• Die-cast trim ring and aluminum reflector</li><li>• Trim ring height of .160" at OD and .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>492PS06 White Lensed Shower Trim with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• White trim ring and baffle, regressed lens</li><li>• Wet location listed for use in showers and protected canopy applications</li><li>• Suggested for use:<ul style="list-style-type: none"><li>- over tubs and showers</li><li>- eaves and soffits</li></ul></li><li>• Aluminum baffle and die-cast trim ring</li><li>• Frosted glass regressed lens</li><li>• Trim Height of .160" at OD &amp; .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>TRM490WH Thin Profile Trim Ring (Optional Accessory)</b></p> <ul style="list-style-type: none"><li>• Die-cast trim ring</li><li>• Thin trim ring provides a more subtle ceiling appearance</li><li>• Purchase as accessory and discard ring supplied with trim</li><li>• Trim ring height of .120" at OD and .180" at ID</li></ul>	

**COOPER LIGHTING**

# L A S E R

Type OW  
High Crossings  
Boulevard

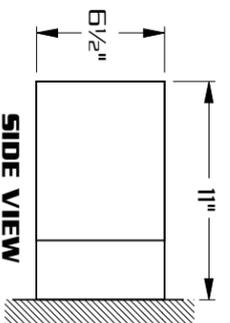


SIDE VIEW



TOP VIEW

**LA55552**  
(QUARTZ HALOGEN)  
(100 WATT. MAX.)



SIDE VIEW



TOP VIEW

**LA55562**  
(H.I.D. - 70 WATT. MAX.)

Yamada design



BF



FB



BB



FF



NF



FN

## SPECIFICATIONS:

**HOUSING:** PRECISE CORROSION RESISTANT DURABLE CAST ALUMINUM CONSTRUCTION.

**OPTICS:** BI-CONVEX LENS FEATURES DIRECTIONAL LASER BEAM CONTROL AND (OR) GENERAL ILLUMINATION (92° BEAM MAXIMUM.)

**LAMP HOLDER:** H.I.D.-MEDIUM BASE PORCELAIN;  
**QUARTZ-MINI CAN FOR TUNGSTEN HALOGEN SINGLE ENDED LAMP.**

**LAMP:** (BY OTHERS)

**BALLAST:** H.P.F./C.W.A. AUTOTRANSFORMER, -20° STARTING TEMPERATURE. ELECTRICAL COMPONENTS ARE MOUNTED TO A REMOVABLE BALLAST TRAY.

**MOUNTING:** WALL MOUNT, COLUMN MOUNT.

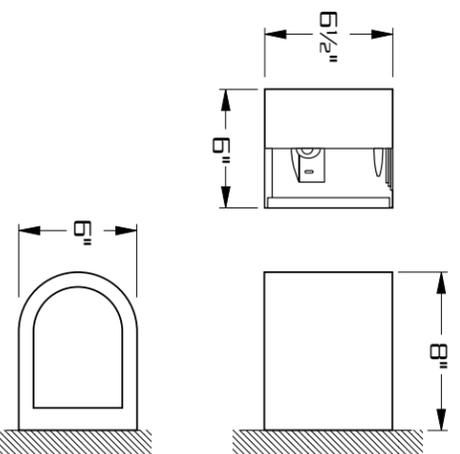
**FINISH:** POLYESTER POWDER COAT-STATE OF THE ART 20 PSI PRESSURE POWER WASH AT 140° TEMPERATURE INCORPORATES FOUR STEP IRON PHOSPHATE PROCESS TO CLEANSE AND PRETREAT THE METAL SURFACE FOR MAXIMUM PAINT ADHESION. ELECTROSTATICALLY APPLIED TEXTURED POLYESTER POWDER TOPCOAT IS BAKED AT 400° TEMPERATURE FOR MAXIMUM HARDNESS AND EXTERIOR DURABILITY.



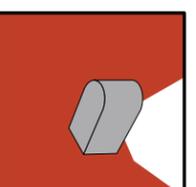
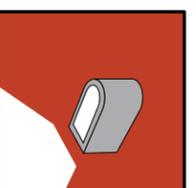
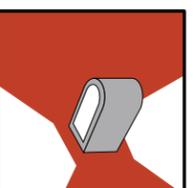
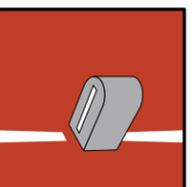
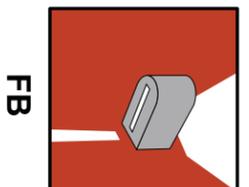
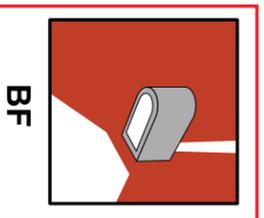
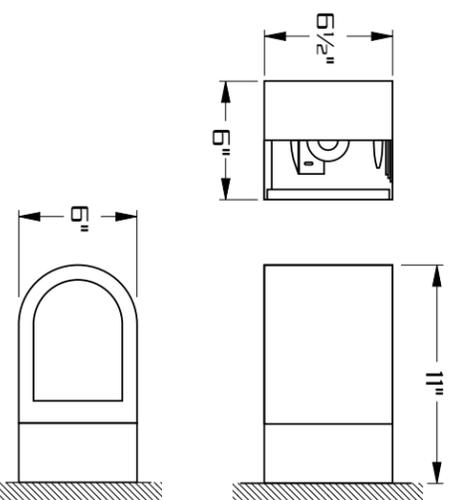
680 WEST AVENUE O, PALMDALE, CA. 93551  
(661) 233-2000  
FAX NO. (661) 233-2001  
www.usalighting.com

D1-1

**LAS5552**  
[QUARTZ HALOGEN]



**LAS5562**  
[H.I.D.]



**ORDERING INFORMATION**

MODEL NO. : LA5562	WATTAGE TYPE VOLTAGE H50	FINISH RAL-9003-T	OPTIONS BF																								
<b>MODEL NO. :</b>	<b>LAMP</b>	<b>FINISH</b>	<b>OPTIONS</b>																								
<input type="checkbox"/> QUARTZ HALOGEN <b>LAS5552</b>	<table border="0"> <tr> <td>WATTAGE</td> <td>TYPE</td> <td>VOLTAGE</td> </tr> <tr> <td><input type="checkbox"/> 100</td> <td><input type="checkbox"/> HPS</td> <td><input checked="" type="checkbox"/> 120</td> </tr> <tr> <td><input type="checkbox"/> 70</td> <td><input checked="" type="checkbox"/> MH</td> <td><input type="checkbox"/> 208</td> </tr> <tr> <td><input checked="" type="checkbox"/> 50</td> <td><input type="checkbox"/> QUARTZ HALOGEN</td> <td><input type="checkbox"/> 240</td> </tr> </table>	WATTAGE	TYPE	VOLTAGE	<input type="checkbox"/> 100	<input type="checkbox"/> HPS	<input checked="" type="checkbox"/> 120	<input type="checkbox"/> 70	<input checked="" type="checkbox"/> MH	<input type="checkbox"/> 208	<input checked="" type="checkbox"/> 50	<input type="checkbox"/> QUARTZ HALOGEN	<input type="checkbox"/> 240	<table border="0"> <tr> <td>STANDARD TEXTURED FINISH</td> </tr> <tr> <td><input type="checkbox"/> BLACK RAL-9005-T</td> </tr> <tr> <td><input type="checkbox"/> WHITE RAL-9003-T</td> </tr> <tr> <td><input type="checkbox"/> GREY RAL-7004-T</td> </tr> <tr> <td><input type="checkbox"/> DRK BRONZE RAL-8019-T</td> </tr> <tr> <td><input type="checkbox"/> GREEN RAL-6005-T</td> </tr> </table>	STANDARD TEXTURED FINISH	<input type="checkbox"/> BLACK RAL-9005-T	<input type="checkbox"/> WHITE RAL-9003-T	<input type="checkbox"/> GREY RAL-7004-T	<input type="checkbox"/> DRK BRONZE RAL-8019-T	<input type="checkbox"/> GREEN RAL-6005-T	<table border="0"> <tr> <td><input type="checkbox"/> BEAM UP, FLOOD DOWN... <b>BF</b></td> </tr> <tr> <td><input type="checkbox"/> FLOOD UP, BEAM DOWN... <b>FB</b></td> </tr> <tr> <td><input type="checkbox"/> BEAM UP, BEAM DOWN... <b>BB</b></td> </tr> <tr> <td><input type="checkbox"/> FLOOD UP, FLOOD DOWN... <b>FF</b></td> </tr> <tr> <td><input type="checkbox"/> NO UP LIGHT, FLOOD DOWN... <b>NF</b></td> </tr> <tr> <td><input type="checkbox"/> FLOOD UP, NO DOWN LIGHT... <b>FN</b></td> </tr> </table>	<input type="checkbox"/> BEAM UP, FLOOD DOWN... <b>BF</b>	<input type="checkbox"/> FLOOD UP, BEAM DOWN... <b>FB</b>	<input type="checkbox"/> BEAM UP, BEAM DOWN... <b>BB</b>	<input type="checkbox"/> FLOOD UP, FLOOD DOWN... <b>FF</b>	<input type="checkbox"/> NO UP LIGHT, FLOOD DOWN... <b>NF</b>	<input type="checkbox"/> FLOOD UP, NO DOWN LIGHT... <b>FN</b>
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<input type="checkbox"/> FLOOD UP, NO DOWN LIGHT... <b>FN</b>																											
<input type="checkbox"/> H.I.D. <b>LAS5562</b>	<p><b>NOTES:</b> QUARTZ HALOGEN UNITS - MAX. 100 WATTS H.I.D. UNITS - MAX. 70 WATTS</p>	<p>FOR SMOOTH FINISH REMOVE SUFIX "T" (EXAMPLE: RAL-9005)</p> <p>SEE WEBSITE FOR ADDITIONAL COLORS</p>																									

# WPLED10



LED 10W & 13 Wallpacks. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze

Weight: 3.3 lbs

<b>Project:</b> High Crossing Blvd.	<b>Type:</b> OW1
<b>Prepared By:</b> Lyons Electric	<b>Date:</b> 7-10-15

Driver Info	LED Info		
Type:	Constant Current	Watts:	10W
120V:	0.21A	Color Temp:	5000K (Cool)
208V:	0.14A	Color Accuracy:	92 CRI
240V:	0.12A	L70 Lifespan:	100,000
277V:	N/A	Lumens:	548
Input Watts:	13W	Efficacy:	42 LPW
Efficiency:	76%		

## Technical Specifications

### Listings

#### UL Listing:

Suitable for Wet Locations as a Downlight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of ground.

#### Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

#### IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

#### LED Characteristics

##### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

##### Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

##### Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

##### Color Uniformity:

RAB's of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2008.

##### Construction

##### Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

#### Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

#### Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

#### Thermal Management:

Cast aluminum Thermal Management system for optimal heat sinking. The LPACK is designed for cool operation, most efficient output and maximum LED life by minimizing LED junction temperature.

#### Housing:

Precision die cast aluminum housing, lens frame.

#### Mounting:

Junction box.

#### Green Technology:

RAB LEDs are Mercury, Arsenic and UV free.

#### For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

#### Gaskets:

High Temperature Silicone.

### Electrical

#### Driver:

Multi-chip 10W high output long life LED Driver  
Constant Current, Class II, 120V-240V, 50/60/ Hz, 350mA.

#### Optical

##### Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

##### Other

##### California Title 24:

See WPLED10/PC for a 2013 California Title 24 compliant model.

##### Patents:

The LPACK design is protected under patents in the U.S. Pat: D608,040, Canada Pat: 130,243, China Pat: 200930183252.2, and pending patents in Taiwan and Mexico.

##### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

##### Equivalency:

The WPLED10 is Equivalent in delivered lumens to a 70W Metal Halide Wallpack.

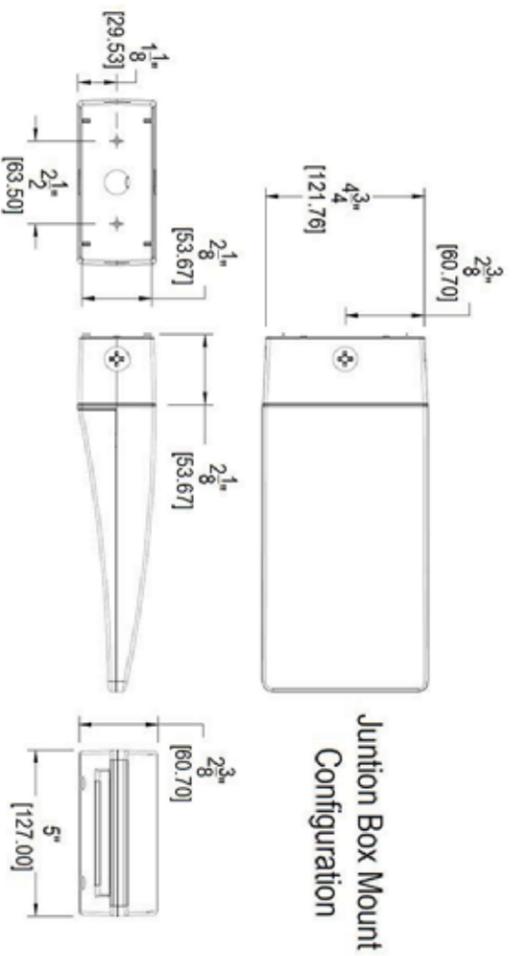
##### HID Replacement Range:

The WPLED10 can be used to replace 35-100W Metal Halide Wallpacks based on delivered lumens.

# WPLED10



## Dimensions



## Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 5-year warranty

## Ordering Matrix

Family	Watts	Color Temp	Sensor	Surface Plate	Surface Place	Finish	Photocell
WPLED	10 = 10W 13 = 13W	= Cool Y = Warm N = Neutral	= No Sensor MS = Mini Sensor	= No Surface Plate	S = Surface Plate	= Bronze W = White	= No Photocell /PC = 120V Button /PCS = 120V Swivel /PC2 = 277V Button



*75 Enterprise Rd.  
Delafield, WI 53018  
Phone 262-646-6828*

## **HIGH CROSSINGS BOULEVARD**

CUT SHEET PACKAGE FOR TYPES:

OA  
OA1  
OA2a  
OR  
OW  
OW1

SUPREME STRUCTURES

75 Enterprise Rd.  
262-646-6828

[www.lyons-electric.com](http://www.lyons-electric.com)

Delafield, WI 53018  
262-646-6829

# McGraw-Edison

## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #	GLEON-AE-02-LED-E1-SL4-DP-7030	Type	OA
Project	High Crossings Boulevard	Date	7-10-15
Comments	Single Head Pole		
Prepared by	KRK		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments.

For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

### Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during



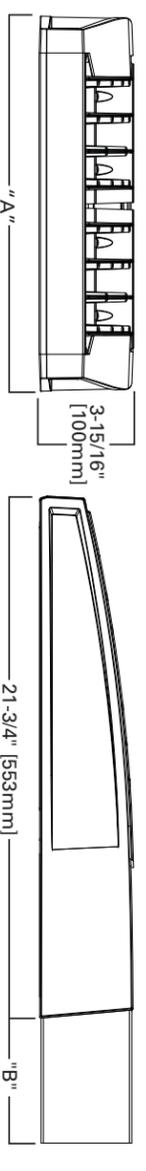
## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

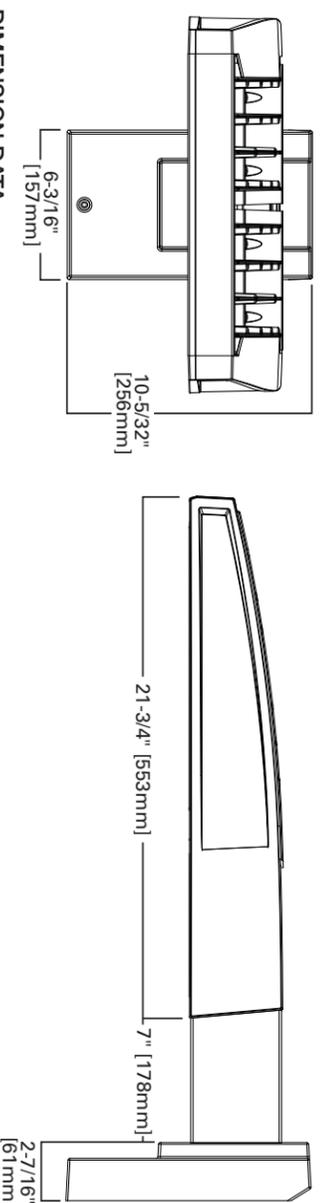
AREA/SITE LUMINAIRE

## DIMENSIONS

### POLE MOUNT



### WALL MOUNT



## DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: **1** Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. **2** EPA calculated with optional arm length.



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\*www.designlights.org



**CERTIFICATION DATA**  
UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium® Qualified\*

### ENERGY DATA

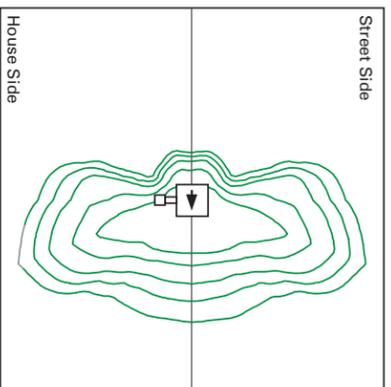
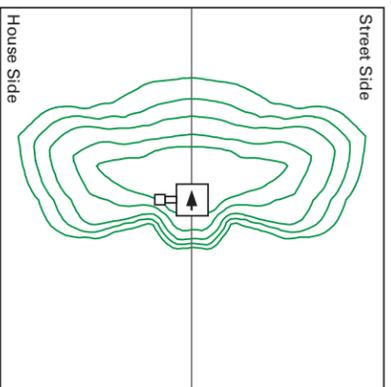
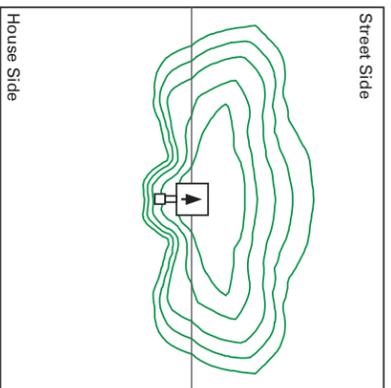
#### Electronic LED Driver

>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)

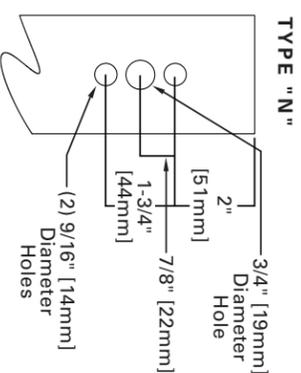


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OPTIC ORIENTATION

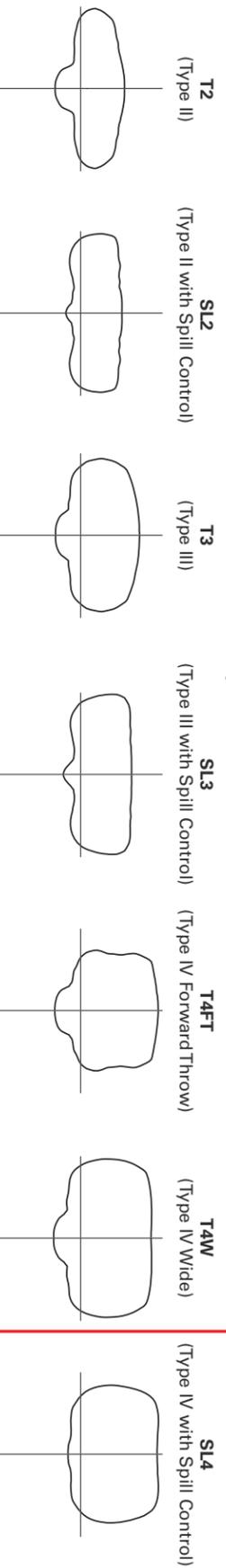


DRILLING PATTERN

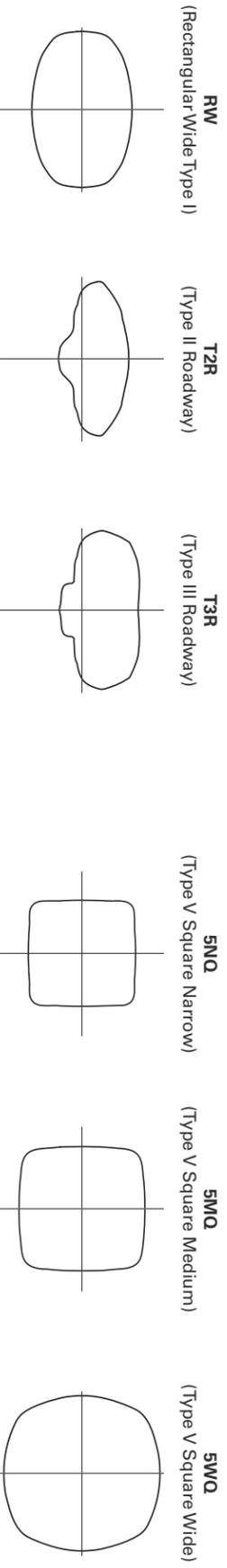


OPTICAL DISTRIBUTIONS

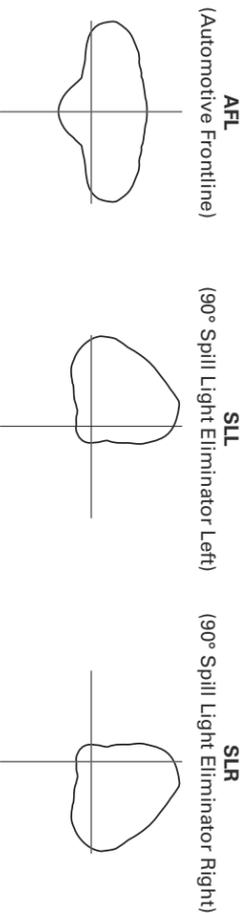
Asymmetric Area Distributions



Symmetric Distributions

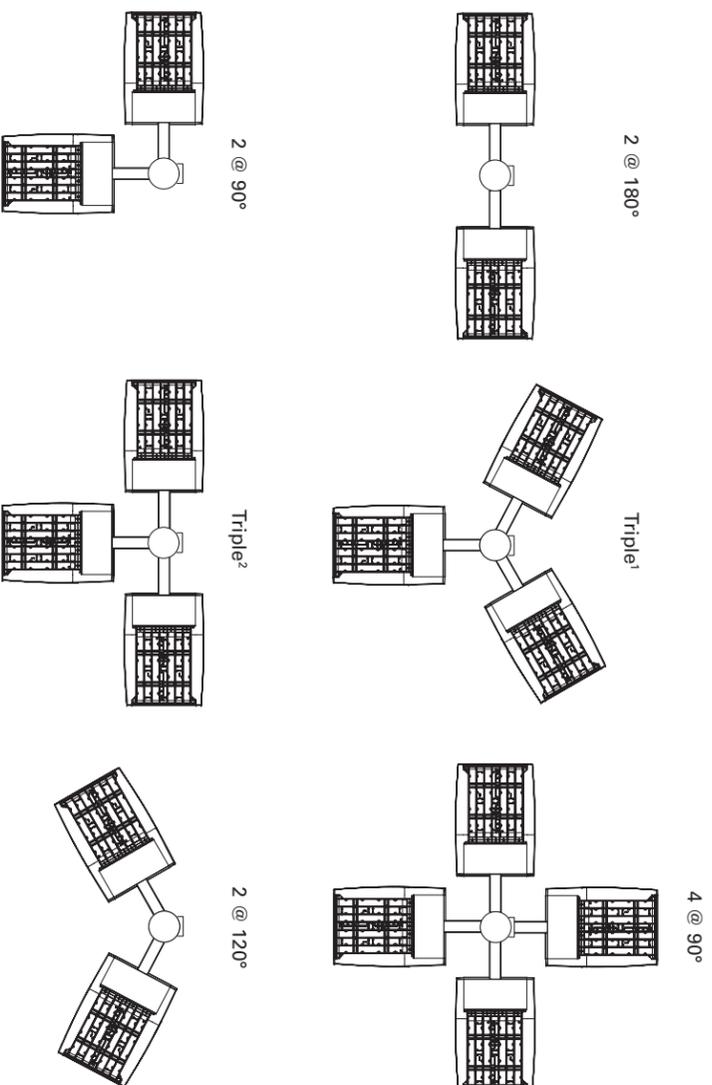


Specialized Distributions



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)



NOTES: 1 Round poles are 3 @ 120°, Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

## NOMINAL POWER AND LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	1A									
Nominal Power (Watts)	56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)	0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)	0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)	0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)	0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00

Optics		1	2	3	4	5	6	7	8	9	10
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

\* Nominal data for 4000K CCT.

## LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



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**NOMINAL POWER AND LUMENS (700mA)**

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	700mA									
Nominal Power (Watts)	38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)	0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)	0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)	0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)	0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31

**Optics**

T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



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**NOMINAL POWER AND LUMENS (530mA)**

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	530mA									
Nominal Power (Watts)	30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98

**Optics**

T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



**Eaton**  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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**GLEON GALLEON LED**

**ORDERING INFORMATION**

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family <sup>1</sup>	Light Engine	Number of Light Squares <sup>2</sup>	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON-Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V <sup>3</sup> 480=480V <sup>3,4</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WO=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLI=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm <sup>5</sup> MA=Mast Arm Adapter <sup>6</sup> WM=Wall Mount
<b>Options (Add as Suffix)</b>							
<p>2L=Two Circuits <sup>7,8</sup>                  7030=70 CRI 3000K <sup>9</sup>                  8030=80 CRI 3000K <sup>9</sup>                  7050=70 CRI 5000K <sup>10</sup>                  7060=70 CRI 6000K <sup>9</sup>                  530=Drive Current Factory Set to 530mA <sup>11</sup>                  700=Drive Current Factory Set to 700mA <sup>11</sup>                  F=Single Fuse (120, 277 or 347V. Must Specify Voltage)                  FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)                  P=Button Type Photocontrol (120, 208, 240 or 277V)                  PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle                  R=NEMA Twistlock Photocontrol Receptacle                  HA=50°C High Ambient <sup>8,12</sup>                  MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>13,14,15,16,17</sup>                  MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>13,14,15,16,17</sup>                  MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>13,14,15,16,19</sup>                  MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20</sup>                  MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height <sup>13,14,15,16,17,21</sup>                  MS/X-L12=Bi-Level Motion Sensor, 9' - 20' Mounting Height <sup>13,14,15,16,18,21</sup>                  MS/X-L20=Bi-Level Motion Sensor, 21' - 40' Mounting Height <sup>13,14,15,16,19,21</sup>                  MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20,21</sup>                  MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height <sup>13,14,15,16,17</sup>                  MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>13,14,15,16,18</sup>                  MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>13,14,15,16,19</sup>                  MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20</sup>                  DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>22</sup>                  DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>22</sup>                  R90=Optics Rotated 90° Left                  L90=Optics Rotated 90° Right                  MT=Factory Installed Mesh Top                  TH=Tool-less Door Hardware                  LCF=Light Square Trim Plate Painted to Match Housing <sup>23</sup>                  HSS=Factory Installed House Side Shield <sup>24</sup>                  CE=CE Marking <sup>25</sup></p>							
<b>Accessories (Order Separately)</b>							
<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V                  OA/RA1027=NEMA Photocontrol - 480V                  OA/RA1201=NEMA Photocontrol - 347V                  OA/RA1013=Photocontrol Shorting Cap                  OA/RA1014=120V Photocontrol                  MA1252=10kV Surge Module Replacement                  MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon                  MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon                  MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon                  FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>26</sup>                  GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares                  GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares                  GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares                  GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares                  LS/HSS=Field Installed House Side Shield <sup>24,27</sup></p>							

**NOTES:**

1. DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
4. Only for use with 480V Wye systems. Per NEMA, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
5. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
6. Factory installed.
7. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
8. Not available with LumaWatt wireless sensors.
9. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
10. Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
11. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
12. 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
13. Consult factory for more information.
14. Utilizes internal step down transformer when 347V or 480V is selected.
15. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
16. Not available with HA option.
17. Approximately 22' detection diameter at 8' mounting height.
18. Approximately 40' detection diameter at 20' mounting height.
19. Approximately 60' detection diameter at 40' mounting height.
20. Approximately 100' detection diameter at 40' mounting height.
21. Replace X with number of Light Squares operating in low output mode.
22. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROU-T1 in appropriate quantities. See [www.eaton.com/lighting](http://www.eaton.com/lighting) for LumaWatt application information.
23. Not available with house side shield (HSS).
24. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
25. CE is not available with the DIMRF, MS, MS/X, MS/DIM, F, FF, P, R or PER7 options.
26. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
27. One required for each Light Square.



Powering Business Worldwide

**Eaton**

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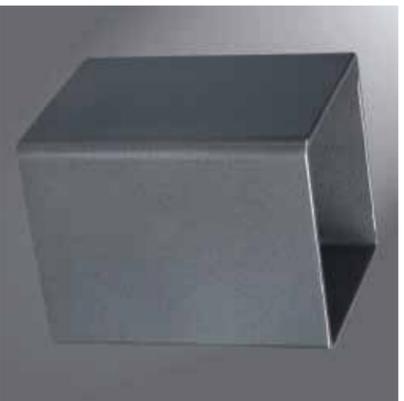
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# COOPER LIGHTING

Catalog #	SSS4A20SLN1G	Type	OA
Project	High Crossings Boulevard	Date	7-10-15
Comments	Single Head Pole		
Prepared by	KRK		



## SSS SQUARE STRAIGHT STEEL

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-.39' mounting heights
- Drilled or tenon (specify)

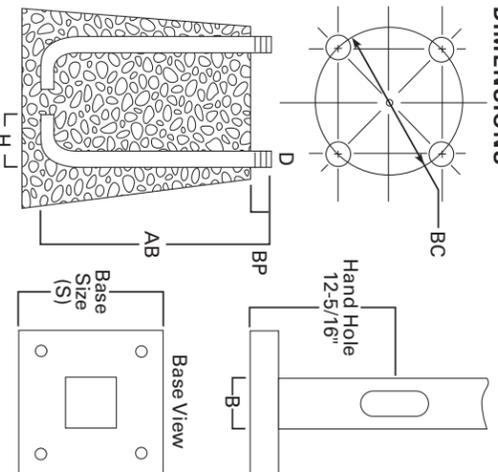
### ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple <sup>2</sup> 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet <sup>3</sup> E=GFCl Convenience Outlet <sup>3</sup> G=Ground Lug H=Additional Hand Hole <sup>4</sup> L=Drilled for Bumper Gitter V=Vibration Damper
<p><b>N=Type N Drilling</b></p>									

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receiptable not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

### DIMENSIONS



**WARNING:** The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty from Eaton's Cooper Lighting business and may result in pole failure causing serious injury or property damage. Upon request, Eaton's Cooper Lighting business will supply information regarding total loading capacity. The pole warranty from Eaton's Cooper Lighting business is void unless poles are used and installed as a complete pole/luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product. Specifications and dimensions subject to change without notice. Consult your Eaton's Cooper Lighting business representative or visit [www.cooperlighting.com](http://www.cooperlighting.com) for available options, accessories and ordering information.

**Cooper Lighting**  
by **EATON**

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SSS SQUARE STRAIGHT STEEL

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Size <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>					Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	110 mph	
MH			<b>S</b>	<b>BC</b>	<b>BP</b>	<b>B</b>	<b>D x AB x H</b>		<b>80 mph</b>	<b>90 mph</b>	<b>100 mph</b>	<b>110 mph</b>		
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100	
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100	
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150	
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.4	11.1	7.9	5.5	150	
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200	
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200	
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200	
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200	
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200	
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200	
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200	
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200	
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200	
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200	
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300	
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300	

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Size <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>					Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	110 mph	
MH			<b>S</b>	<b>BC</b>	<b>BP</b>	<b>B</b>	<b>D x AB x H</b>		<b>80 mph</b>	<b>90 mph</b>	<b>100 mph</b>	<b>110 mph</b>		
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100	
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100	
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150	
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150	
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200	
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200	
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200	
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200	
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200	
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200	
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200	
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200	
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200	
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200	
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300	
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300	

- NOTES:
- Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained from Eaton's Cooper Lighting business.
  - Tension size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
  - Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
  - EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

**Cooper Lighting**  
by **Eaton**

**Eaton**  
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Cleveland, OH 44122  
United States  
Eaton.com

**Eaton's Cooper Lighting Business**  
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www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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2014-04-02 13:41:02

# McGraw-Edison

## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #	GLEON-AE-02-LED-E1-SL4-DP-7030	Type	OA1
Project	High Crossings Boulevard	Date	7-10-15
Comments	Single Head Pole		
Prepared by	KRK		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments.

For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

### Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during



## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

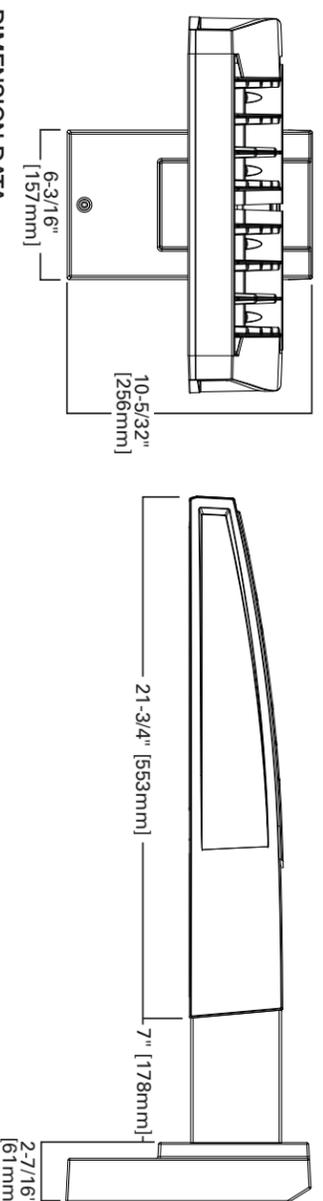
AREA/SITE LUMINAIRE

## DIMENSIONS

### POLE MOUNT



### WALL MOUNT



## DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: **1** Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. **2** EPA calculated with optional arm length.



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\*www.designlights.org



## CERTIFICATION DATA

UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium® Qualified\*

## ENERGY DATA

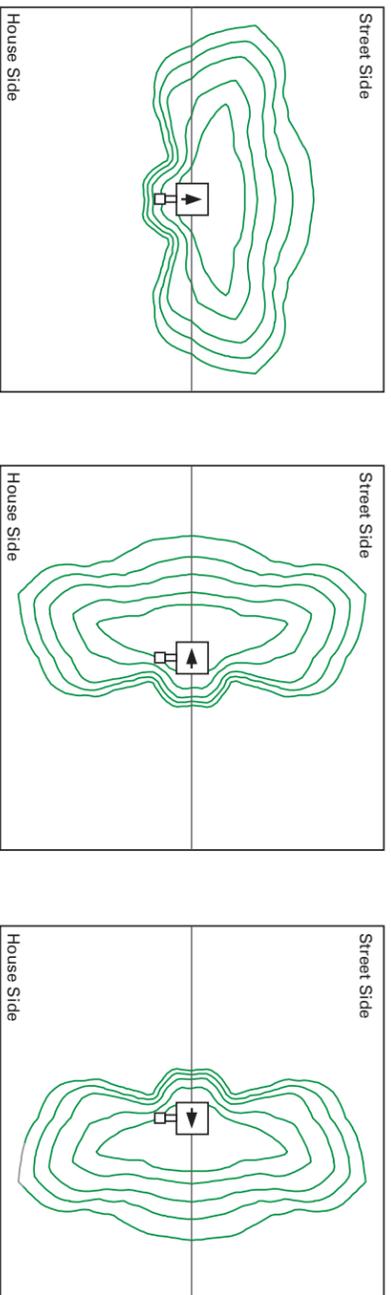
### Electronic LED Driver

>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)

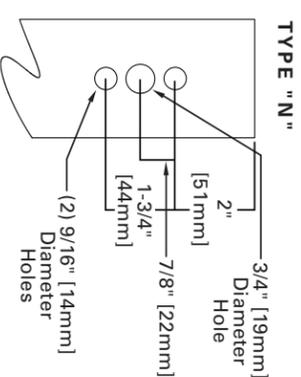


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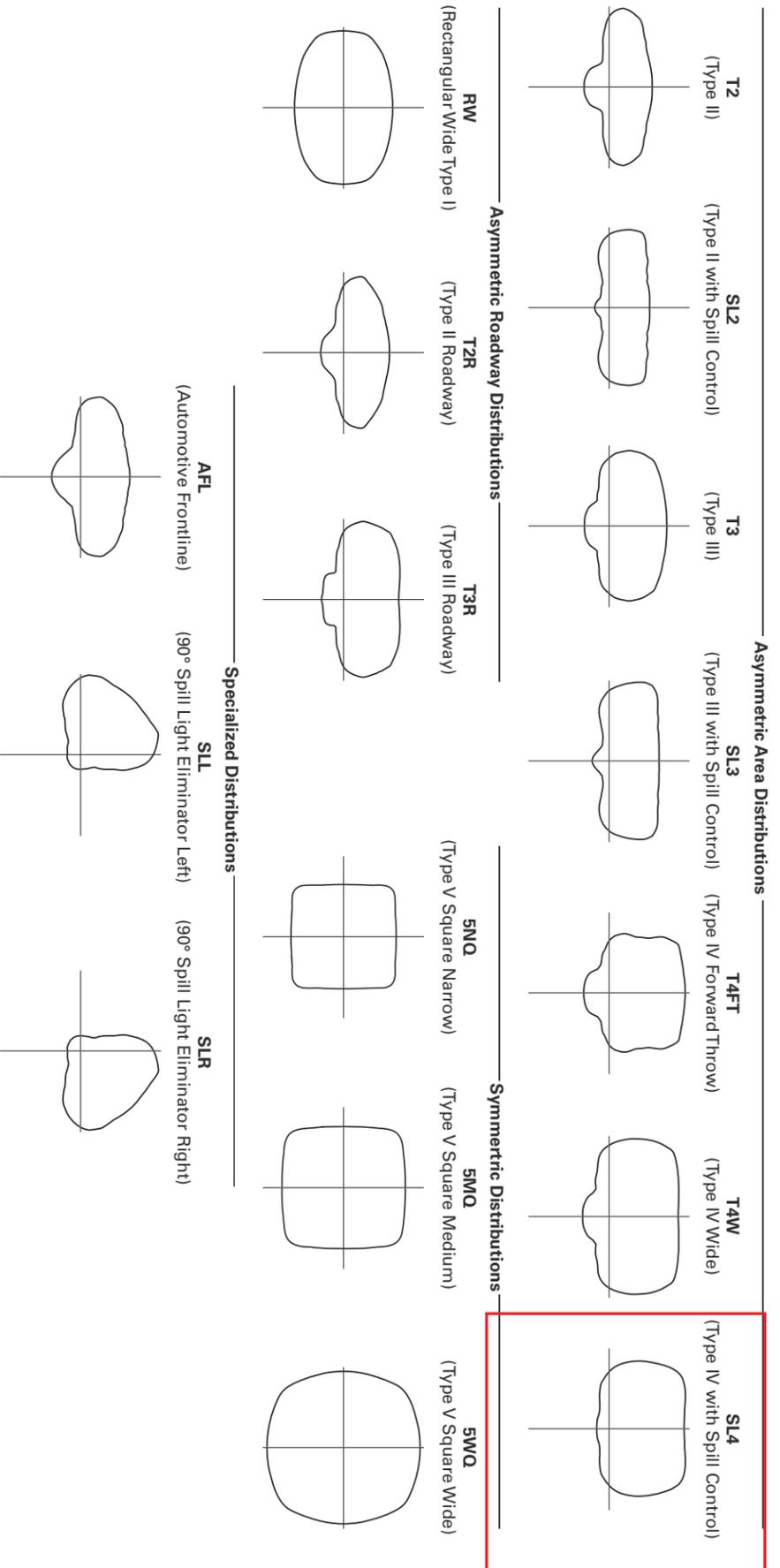
OPTIC ORIENTATION



DRILLING PATTERN

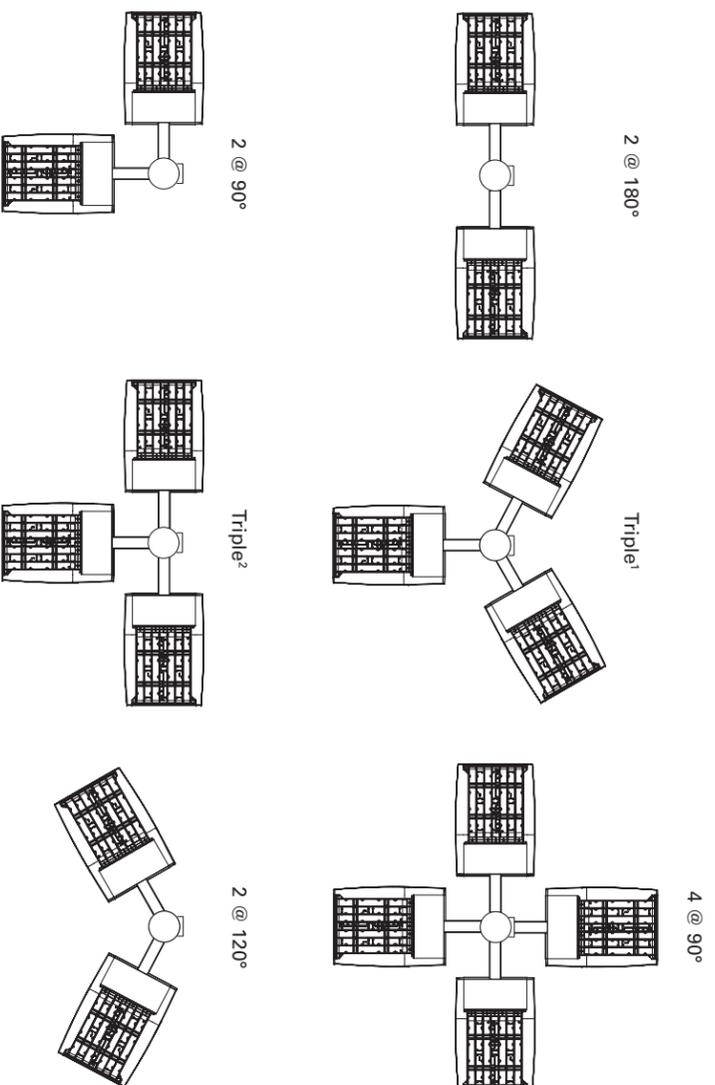


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)



NOTES: 1 Round poles are 3 @ 120°, Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

## NOMINAL POWER AND LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	1A									
Nominal Power (Watts)	56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)	0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)	0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)	0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)	0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00

Optics	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

\* Nominal data for 4000K CCT.

## LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

## LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



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**NOMINAL POWER AND LUMENS (700mA)**

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	700mA									
Nominal Power (Watts)	38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)	0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)	0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)	0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)	0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31

**Optics**

T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



Powering Business Worldwide

**Eaton**

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Specifications and  
 dimensions subject to  
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**NOMINAL POWER AND LUMENS (530mA)**

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	530mA									
Nominal Power (Watts)	30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98

**Optics**

T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



Powering Business Worldwide

**Eaton**

1121 Highway 74 South  
 Peachtree City, GA 30269  
 P: 770-486-4800  
 www.eaton.com/lighting

Specifications and  
 dimensions subject to  
 change without notice.

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**GLEON GALLEON LED**

**ORDERING INFORMATION**

Sample Number: GLEON-AE-04-LED-E1-1-T3-GM-700

Product Family <sup>1</sup>	Light Engine	Number of Light Squares <sup>2</sup>	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON-Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V <sup>3</sup> 480=480V <sup>3,4</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WO=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLI=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Granite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm <sup>5</sup> MA=Mast Arm Adapter <sup>6</sup> WM=Wall Mount
<b>Options (Add as Suffix)</b>							
<p>2L=Two Circuits <sup>7,8</sup>                  7030=70 CRI 3000K <sup>9</sup>                  8030=80 CRI 3000K <sup>10</sup>                  7050=70 CRI 5000K <sup>10</sup>                  7060=70 CRI 6000K <sup>9</sup>                  530=Drive Current Factory Set to 530mA <sup>11</sup>                  700=Drive Current Factory Set to 700mA <sup>11</sup>                  F=Single Fuse (120, 277 or 347V. Must Specify Voltage)                  FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)                  P=Button Type Photocontrol (120, 208, 240 or 277V)                  PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle                  R=NEMA Twistlock Photocontrol Receptacle                  HA=50°C High Ambient <sup>8,12</sup>                  MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>13,14,15,16,17</sup>                  MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>13,14,15,16,17</sup>                  MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>13,14,15,16,19</sup>                  MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20</sup>                  MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height <sup>13,14,15,16,17,21</sup>                  MS/X-L12=Bi-Level Motion Sensor, 9' - 20' Mounting Height <sup>13,14,15,16,18,21</sup>                  MS/X-L20=Bi-Level Motion Sensor, 21' - 40' Mounting Height <sup>13,14,15,16,19,21</sup>                  MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20,21</sup>                  MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height <sup>13,14,15,16,17</sup>                  MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>13,14,15,16,18</sup>                  MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>13,14,15,16,19</sup>                  MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20</sup>                  DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>22</sup>                  DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>22</sup>                  L90=Optics Rotated 90° Left                  R90=Optics Rotated 90° Right                  MT=Factory Installed Mesh Top                  TH=Tool-less Door Hardware                  LCF=Light Square Trim Plate Painted to Match Housing <sup>23</sup>                  HSS=Factory Installed House Side Shield <sup>24</sup>                  CE=CE Marking <sup>25</sup></p>							
<b>Accessories (Order Separately)</b>							
<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V                  OA/RA1027=NEMA Photocontrol - 480V                  OA/RA1201=NEMA Photocontrol - 347V                  OA/RA1013=Photocontrol Shorting Cap                  OA/RA1014=120V Photocontrol                  MA11252=10kV Surge Module Replacement                  MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon                  MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon                  MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon                  FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>26</sup>                  GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares                  GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares                  GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares                  GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares                  LS/HSS=Field Installed House Side Shield <sup>24,27</sup></p>							

**NOTES:**

1. DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
4. Only for use with 480V Wye systems. Per NEMA, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
5. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
6. Factory installed.
7. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
8. Not available with LumaWatt wireless sensors.
9. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
10. Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
11. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
12. 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
13. Consult factory for more information.
14. Utilizes internal step down transformer when 347V or 480V is selected.
15. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
16. Not available with HA option.
17. Approximately 22' detection diameter at 8' mounting height.
18. Approximately 40' detection diameter at 20' mounting height.
19. Approximately 60' detection diameter at 40' mounting height.
20. Approximately 100' detection diameter at 40' mounting height.
21. Replace X with number of Light Squares operating in low output mode.
22. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROU-T-1 in appropriate quantities. See [www.eaton.com/lighting](http://www.eaton.com/lighting) for LumaWatt application information.
23. Not available with house side shield (HSS).
24. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
25. CE is not available with the DIMRF, MS, MS/X, MS/DIM, F, FF, P, R or PER7 options.
26. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
27. One required for each Light Square.



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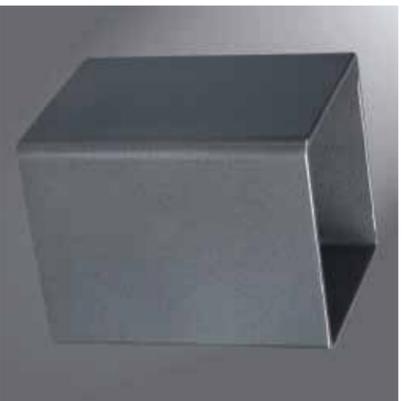
1121 Highway 74 South  
 Peachtree City, GA 30269  
 P: 770-486-4800  
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Specifications and dimensions subject to change without notice.

TD500020EN  
 2015-06-04 13:56:33

# COOPER LIGHTING

Catalog #	SSS4A20SLN1G	Type	OA1
Project	High Crossings Boulevard	Date	7-10-15
Comments	Single Head Pole		
Prepared by	KRK		



## SSS SQUARE STRAIGHT STEEL

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-.39' mounting heights
- Drilled or tenon (specify)

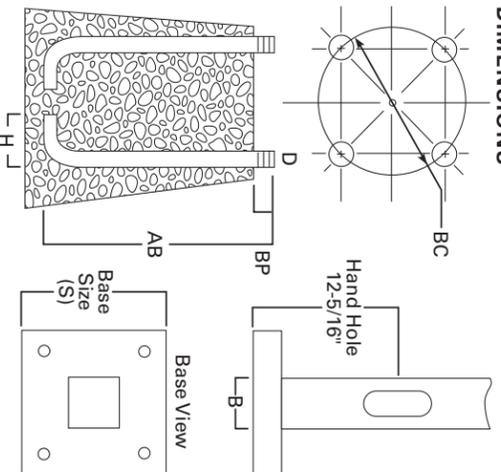
### ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple <sup>2</sup> 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet <sup>3</sup> E=GFCL Convenience Outlet <sup>3</sup> G=Ground Lug H=Additional Hand Hole <sup>4</sup> L=Drilled for Bumper Gitter V=Vibration Damper

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

### DIMENSIONS



**WARNING:** The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty from Eaton's Cooper Lighting business and may result in pole failure causing serious injury or property damage. Upon request, Eaton's Cooper Lighting business will supply information regarding total loading capacity. The pole warranty from Eaton's Cooper Lighting business is void unless poles are used and installed as a complete pole/luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product. Specifications and dimensions subject to change without notice. Consult your Eaton's Cooper Lighting business representative or visit [www.cooperlighting.com](http://www.cooperlighting.com) for available options, accessories and ordering information.

**Cooper Lighting**  
by **EATON**

ADH130493  
2014-04-02 13:41:02

SSS SQUARE STRAIGHT STEEL

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Size <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>					Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	110 mph	
MH			<b>S</b>	<b>BC</b>	<b>BP</b>	<b>B</b>	<b>D x AB x H</b>		<b>80 mph</b>	<b>90 mph</b>	<b>100 mph</b>	<b>110 mph</b>		
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100	
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100	
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150	
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150	
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200	
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200	
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200	
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200	
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200	
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200	
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200	
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200	
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200	
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200	
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300	
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300	

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Size <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>					Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	110 mph	
MH			<b>S</b>	<b>BC</b>	<b>BP</b>	<b>B</b>	<b>D x AB x H</b>		<b>80 mph</b>	<b>90 mph</b>	<b>100 mph</b>	<b>110 mph</b>		
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100	
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100	
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150	
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150	
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200	
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200	
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200	
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200	
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200	
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200	
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200	
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200	
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200	
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200	
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300	
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300	

- NOTES:
1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained from Eaton's Cooper Lighting business.
  2. Tension size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
  3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
  4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

**Cooper Lighting**  
by **Eaton**

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

**Eaton's Cooper Lighting Business**  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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# McGraw-Edison

## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #	GLEON-AE-02-LED-E1-SL4-DP-7030	Type	OA2a
Project	High Crossings Boulevard	Date	7-10-15
Comments	Dual Head Pole		
Prepared by	KRK		

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments.

For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

### Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during



## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

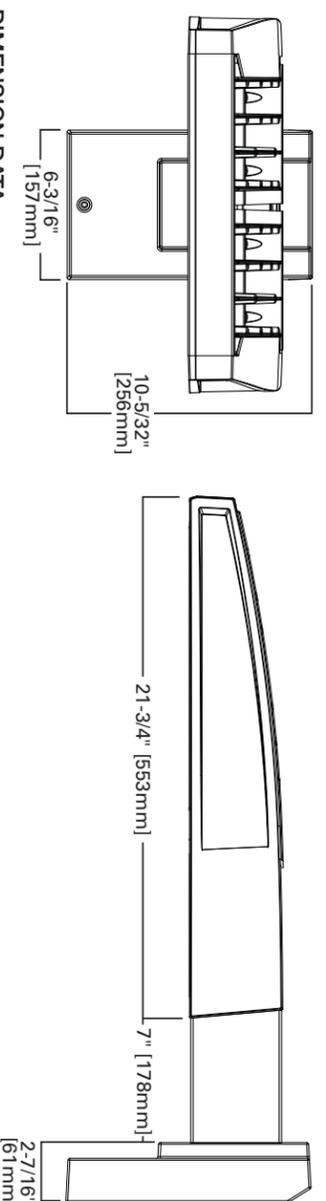
AREA/SITE LUMINAIRE

## DIMENSIONS

### POLE MOUNT



### WALL MOUNT



## DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: **1** Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. **2** EPA calculated with optional arm length.



\*www.designlights.org



**CERTIFICATION DATA**  
UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium® Qualified\*

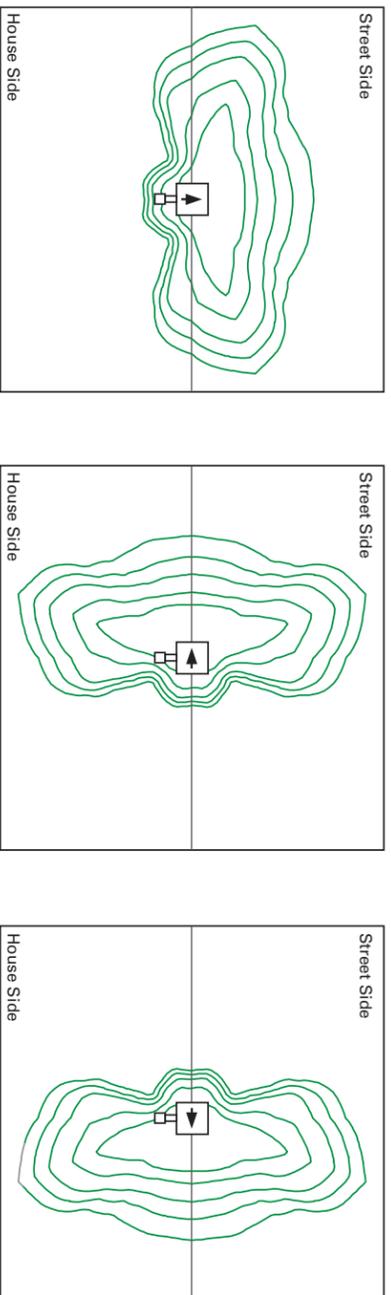
### ENERGY DATA

**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)

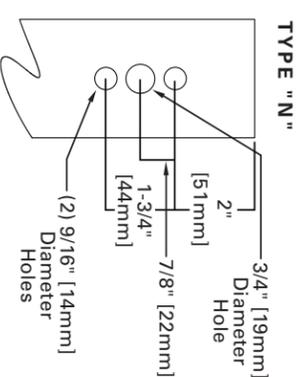


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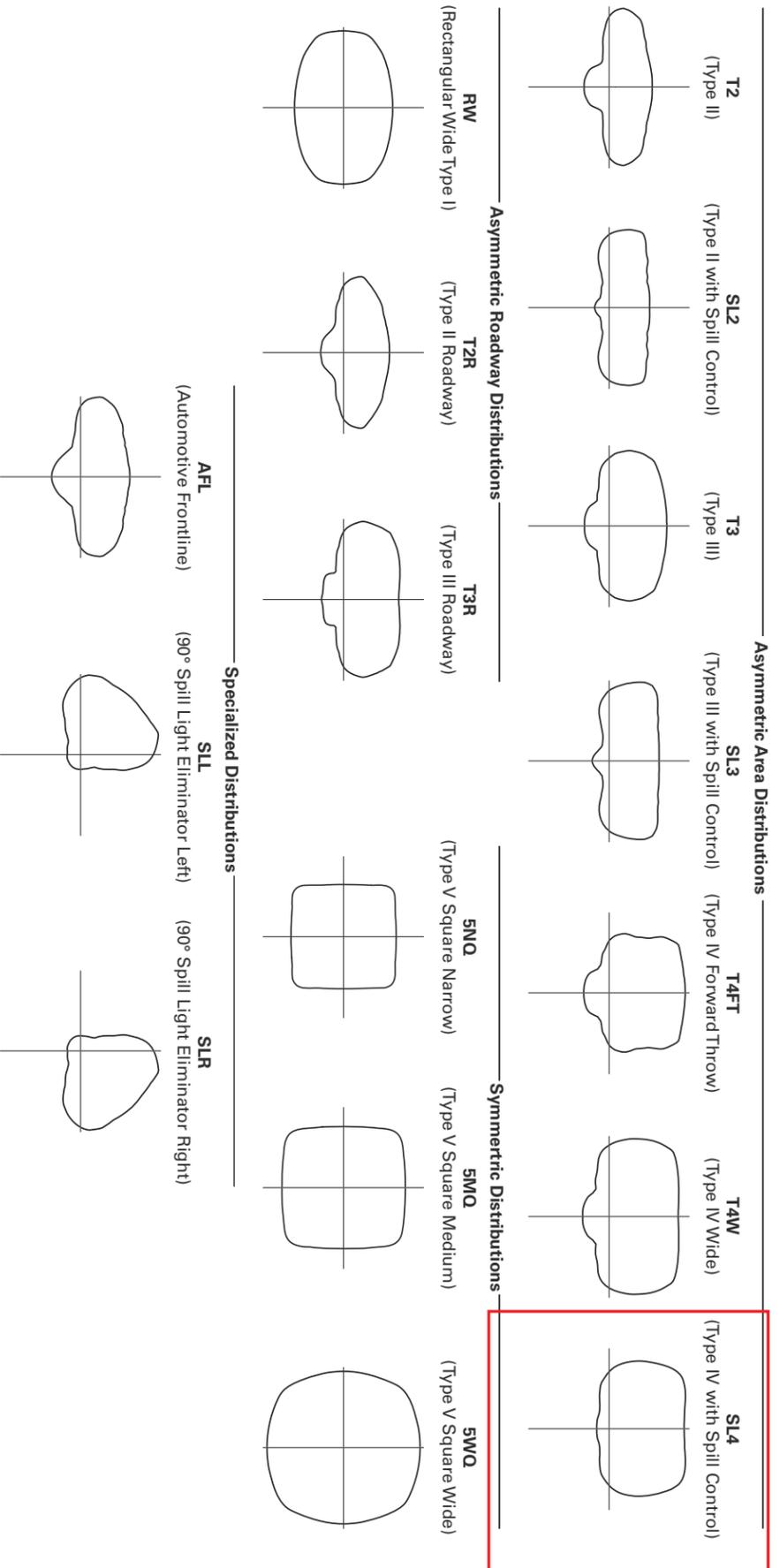
OPTIC ORIENTATION



DRILLING PATTERN

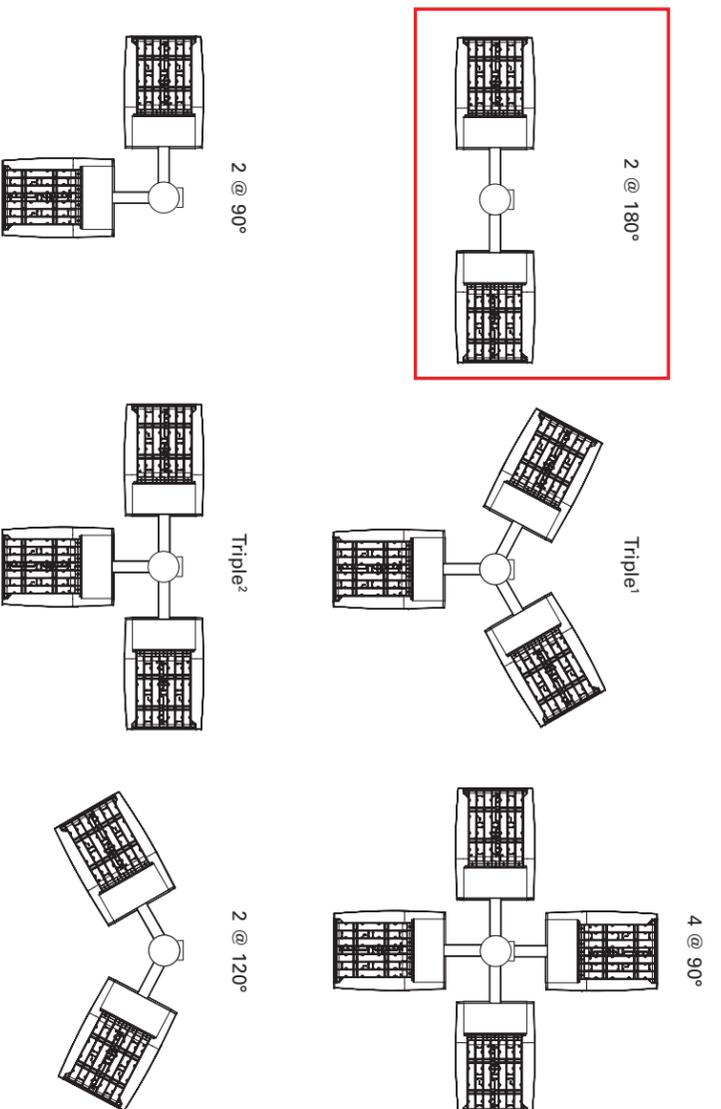


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)



NOTES: 1 Round poles are 3 @ 120°, Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

**NOMINAL POWER AND LUMENS (1A)**

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	1A									
Nominal Power (Watts)	56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)	0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)	0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)	0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)	0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00

Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

\* Nominal data for 4000K CCT.

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



**Eaton**  
 1121 Highway 74 South  
 Peachtree City, GA 30269  
 P: 770-486-4800  
 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

**NOMINAL POWER AND LUMENS (700mA)**

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	700mA									
Nominal Power (Watts)	38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)	0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)	0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)	0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)	0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31

**Optics**

T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



Powering Business Worldwide

**Eaton**

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**NOMINAL POWER AND LUMENS (530mA)**

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	530mA									
Nominal Power (Watts)	30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98

**Optics**

T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

\* Nominal data for 4000K CCT.

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

\* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.



Powering Business Worldwide

**Eaton**

1121 Highway 74 South  
 Peachtree City, GA 30269  
 P: 770-486-4800  
 www.eaton.com/lighting

Specifications and  
 dimensions subject to  
 change without notice.

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**GLEON GALLEON LED**

**ORDERING INFORMATION**

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family <sup>1</sup>	Light Engine	Number of Light Squares <sup>2</sup>	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON-Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V <sup>3</sup> 480=480V <sup>3,4</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WO=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLI=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm <sup>5</sup> MA=Mast Arm Adapter <sup>6</sup> WM=Wall Mount
<b>Options (Add as Suffix)</b>							
<p>2L=Two Circuits <sup>7,8</sup>                  7030=70 CRI 3000K <sup>9</sup>  <del>8030=80 CRI 3000K <sup>10</sup></del>                  7050=70 CRI 5000K <sup>10</sup>                  7060=70 CRI 6000K <sup>9</sup>                  530=Drive Current Factory Set to 530mA <sup>11</sup>                  700=Drive Current Factory Set to 700mA <sup>11</sup>                  F=Single Fuse (120, 277 or 347V. Must Specify Voltage)                  FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)                  P=Button Type Photocontrol (120, 208, 240 or 277V)                  PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle                  R=NEMA Twistlock Photocontrol Receptacle                  HA=50°C High Ambient <sup>8,12</sup>                  MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>13,14,15,16,17</sup>                  MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>13,14,15,16,17</sup>                  MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>13,14,15,16,19</sup>                  MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20</sup>                  MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height <sup>13,14,15,16,18,21</sup>                  MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height <sup>13,14,15,16,18,21</sup>                  MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height <sup>13,14,15,16,19,21</sup>                  MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20,21</sup>                  MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height <sup>13,14,15,16,17</sup>                  MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>13,14,15,16,18</sup>                  MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>13,14,15,16,19</sup>                  MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) <sup>13,14,15,16,20</sup>                  DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>22</sup>                  DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>22</sup>                  R90=Optics Rotated 90° Left                  R90=Optics Rotated 90° Right                  MT=Factory Installed Mesh Top                  TH=Tool-less Door Hardware                  LCF=Light Square Trim Plate Painted to Match Housing <sup>23</sup>                  HSS=Factory Installed House Side Shield <sup>24</sup>                  CE=CE Marking <sup>25</sup></p>							
<b>Accessories (Order Separately)</b>							
<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V                  OA/RA1027=NEMA Photocontrol - 480V                  OA/RA1201=NEMA Photocontrol - 347V                  OA/RA1013=Photocontrol Shorting Cap                  OA/RA1014=120V Photocontrol                  MA1252=10kV Surge Module Replacement                  MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon                  MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon                  MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon                  MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon                  MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon                  FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>26</sup>                  GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares                  GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares                  GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares                  GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares                  LS/HSS=Field Installed House Side Shield <sup>24,27</sup></p>							

**NOTES:**

1. DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
4. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
5. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
6. Factory installed.
7. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
8. Not available with LumaWatt wireless sensors.
9. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
10. Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
11. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
12. 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
13. Consult factory for more information.
14. Utilizes internal step down transformer when 347V or 480V is selected.
15. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
16. Not available with HA option.
17. Approximately 22' detection diameter at 8' mounting height.
18. Approximately 40' detection diameter at 20' mounting height.
19. Approximately 60' detection diameter at 40' mounting height.
20. Approximately 100' detection diameter at 40' mounting height.
21. Replace X with number of Light Squares operating in low output mode.
22. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROU-T1 in appropriate quantities. See [www.eaton.com/lighting](http://www.eaton.com/lighting) for LumaWatt application information.
23. Not available with house side shield (HSS).
24. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
25. CE is not available with the DIMRF, MS, MS/X, MS/DIM, F, FF, P, R or PER7 options.
26. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
27. One required for each Light Square.



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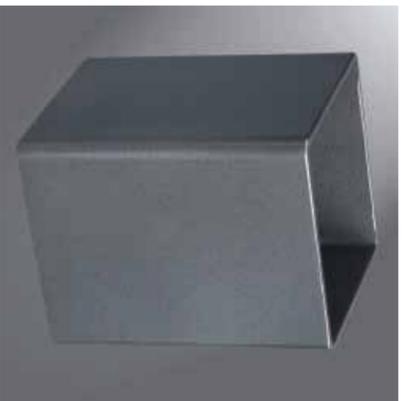
1121 Highway 74 South  
 Peachtree City, GA 30269  
 P: 770-486-4800  
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Specifications and dimensions subject to change without notice.

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 2015-06-04 13:56:33

# COOPER LIGHTING

Catalog #	SSS4A20SLN2G	Type	OA2a
Project	High Crossings Boulevard	Date	7-10-15
Comments	Dual Head Pole		
Prepared by	KRK		



## SSS SQUARE STRAIGHT STEEL

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-.39' mounting heights
- Drilled or tenon (specify)

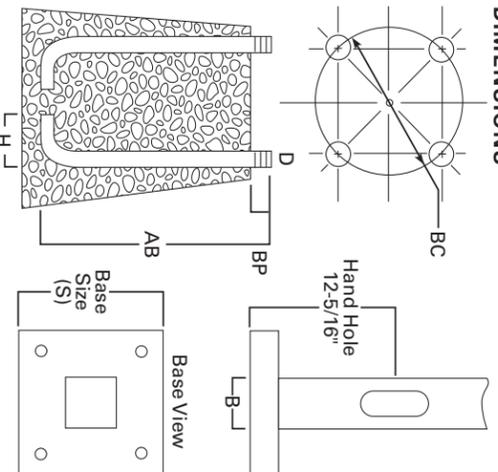
### ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet <sup>3</sup> E=GFCl Convenience Outlets <sup>3</sup> G=Ground Lug H=Additional Hand Hole <sup>4</sup> L=Drilled for Bumper Gitter V=Vibration Damper
<p><b>N=Type N Drilling</b></p>									

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

### DIMENSIONS



**WARNING:** The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty from Eaton's Cooper Lighting business and may result in pole failure causing serious injury or property damage. Upon request, Eaton's Cooper Lighting business will supply information regarding total loading capacity. The pole warranty from Eaton's Cooper Lighting business is void unless poles are used and installed as a complete pole/luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product. Specifications and dimensions subject to change without notice. Consult your Eaton's Cooper Lighting business representative or visit [www.cooperlighting.com](http://www.cooperlighting.com) for available options, accessories and ordering information.

**Cooper Lighting**  
by **EATON**

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2014-04-02 13:41:02

SSS SQUARE STRAIGHT STEEL

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Size <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>					Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	110 mph	
MH			<b>S</b>	<b>BC</b>	<b>BP</b>	<b>B</b>	<b>D x AB x H</b>		<b>80 mph</b>	<b>90 mph</b>	<b>100 mph</b>	<b>110 mph</b>	<b>110 mph</b>	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100	
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100	
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150	
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150	
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200	
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200	
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200	
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200	
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200	
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200	
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200	
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200	
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200	
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200	
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300	
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300	

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Size <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>					Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	110 mph	
MH			<b>S</b>	<b>BC</b>	<b>BP</b>	<b>B</b>	<b>D x AB x H</b>		<b>80 mph</b>	<b>90 mph</b>	<b>100 mph</b>	<b>110 mph</b>	<b>110 mph</b>	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100	
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100	
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150	
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150	
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200	
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200	
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200	
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200	
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200	
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200	
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200	
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200	
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200	
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200	
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300	
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300	

- NOTES:
1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained from Eaton's Cooper Lighting business.
  2. Tension size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
  3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
  4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

**Cooper Lighting**  
by **Eaton**

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

**Eaton's Cooper Lighting Business**  
1121 Highway 74 South  
Peachtree City, GA 30269  
P: 770-486-4800  
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

ADH130493  
2014-04-02 13:41:02

## HALO LED NON-IC HOUSING for NEW CONSTRUCTION

The H750T is a dedicated LED new construction housing to be used with designated HALO LED modules. The H750T is designed for non-insulated ceilings. If insulation is present it must be kept three inches from all sides of the housing. The AIRTITE™ housing design prevents airflow between conditioned and unconditioned spaces, saving on both heating and air conditioning costs. The LED connector system provides high efficacy code compliance when used with designated HALO LED modules and trims.

Catalog #	H750T	Type	
Project	High Crossings Blvd.	OR	
Comments	Housing	Date	
Prepared by	KRK	7-10-15	

**HALO**®

## DESIGN FEATURES

### Housing

Aluminum with white semi-gloss paint finish.

### Plaster Frame

Galvanized steel frame. Housing adjusts in plaster frame to accommodate up to 1" ceiling thickness. Regressed locking screw for securing hanger bars. Cutouts included for easily crimping hanger bars in position.

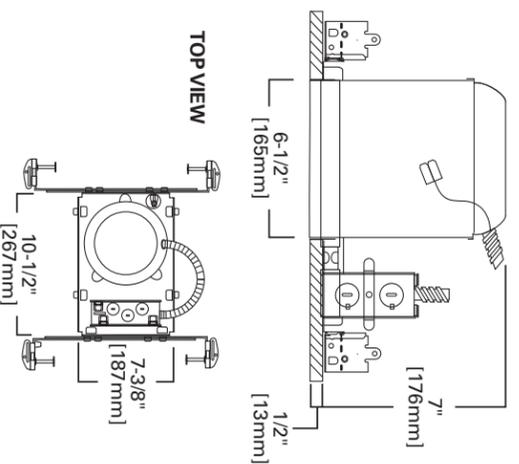
### Slide-N-Side™ Junction Box

- Positioned to accommodate straight conduit runs.
- Seven ½" trade size conduit knockouts with true pry-out slots.

- Slide-N-Side wire traps allow non metallic sheathed cable to be installed without tools and without removing knockouts.
- Allows wiring connections to be made outside the box.
- Simply insert the cable directly into the trap after connections are made.
- Accommodates the following standard non-metallic sheathed cable type:
  - U.S. #14/2, #14/3, #12/2, 12/3
  - Canada: #14/2, #14/3, #12/2

### GOT-NAIL!™ Pass-N-Thru™ Bar Hangers

- Bar Hanger features include
  - Pre-installed nail easily installs in regular lumber, engineered lumber and laminated beams.



- Safety and Guidance system prevents snagging, ensures smooth, straight nail penetration and allows bar hangers to be easily removed if necessary

- Automatic leveling flange aligns the housing and allows holding the housing in place with one hand while driving nails.
- Housing can be positioned at any point within 24" joist spans
- Score lines allow tool-free shortening for 12" joists and bar hangers do not need to be removed for shortening.
- Bar hangers may be repositioned 90° on plaster frame
- Integral T-bar clip snaps onto T-bars – no additional clips are required.

### LED Module Connection

Halo LED modules simply install with a plug-in 120V-277V rated line voltage wiring connector (UL and CSA Listed Luminaire Disconnect).

This non-screw-base connection preserves the high efficacy rating and prevents use of low efficacy incandescent sources (see LED Module specifications).

### Caution

Connection is rated for 120V and 277V input. Installer must verify LED module voltage is compatible with the applicable voltage input. If uncertain, consult a qualified electrician.

### Labels

- UL/cUL Listed 1598 Luminaire
- CE Marking - "Conformité Européenne" conformity with the Council of European Communities Directives, meeting internationally recognized compliance when used with ML56 Series LED modules
- Listed for Feed Through
- Listed for Damp Location
- Listed for Wet Location with select trims
- Rated for 20W maximum

### Qualification

May be used with qualified Halo LED modules and designated trims for High Efficacy Luminaire Compliance:

- State of California Title 24
- International Energy Conservation Code (IECC)
- New York State Energy Conservation Construction Code - AIR-TITE™ Compliant
- Certified under ASTM-E283 standard for air-tight construction when used with ML56 series, RL56 series and ML7 series trims



**H750T**

**6" New Construction NON-IC AIR-TITE™ Housing**  
For  
Halo LED Modules and Trims  
- ML56 Series  
- RL56 Series  
- RA56 Series

**High Efficacy LED Housing**

**FOR USE IN NON-INSULATED CEILINGS**

**CAN BE USED IN INSULATED CEILINGS BUT INSULATION MUST BE KEPT 3" FROM ALL SIDES OF THE HOUSING**



Qualified and compliant with select trims. Refer to ENERGY STAR® Qualified Products List and CEC (T24) Appliance Database for listings.

**Cooper Lighting**  
by **EATON**

ADV141508  
6/17/2014

**ORDERING INFORMATION - RL56 SERIES**

**SAMPLE NUMBER:** H750T - RL560WH6927  
Order housing, light module, trim and separately.

**Housing**  
**H750T = 6" Aperture, New Construction, Non-IG, AIR-TITE™, High Efficacy LED Housing**

**RL56 LED - Compatible LED Retrofit Modules**

**80 CRI**  
**RL560WH6827** = 5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 2700K, Matte White  
**RL560SN6827** = 5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 2700K, Satin Nickel  
**RL560WH6830** = 5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 3000K, Matte White  
**RL560SN6830** = 5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 3000K, Satin Nickel  
**RL560WH6835** = 5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 3500K, Matte White  
**90 CRI**  
**RL560WH6927** = 5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 2700K, Matte White  
**RL560SN6927** = 5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 2700K, Satin Nickel  
**RL560WH6930** = 5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 3000K, Matte White  
**RL560SN6930** = 5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 3000K, Satin Nickel  
**RL560WH6935** = 5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 3500K, Matte White

**ORDERING INFORMATION - RA56 SERIES**

**SAMPLE NUMBER:** H750T - RA5606927WH  
Order housing, light module, trim and separately.

**Housing**

**H750T = 6" Aperture, New Construction, Non-IG, AIR-TITE™, High Efficacy LED Housing**

**RA56 LED - Compatible LED Retrofit Modules**

**Very Wide Flood - WWFL Models**  
**RA5606927WH** = 5"/6" LED Adjustable Gimbal, 90CRI, 2700K, White, Very Wide Flood  
**RA5606930WH** = 5"/6" LED Adjustable Gimbal, 90CRI, 3000K, White, Very Wide Flood  
**Narrow Flood - NFL Models**  
**RA5606927NFLWH** = 5"/6" LED Adjustable Gimbal, 90CRI, 2700K, White, Narrow Flood  
**RA5606930NFLWH** = 5"/6" LED Adjustable Gimbal, 90CRI, 3000K, White, Narrow Flood

**ORDERING INFORMATION - ML56 SERIES**

**SAMPLE NUMBER:** H750T - ML5606830 - 693WB  
Order housing, light module, trim and separately.

**ML56 LED Light Modules**

**H750T = 6" Aperture, New Construction, Non-IG, AIR-TITE™, High Efficacy LED Housing**  
**600 Series / 80 CRI**  
**ML5606827** = 5"/6" LED Retrofit Downlight Light Module, 600 lumen, 80CRI, 2700K  
**ML5606830** = 5"/6" LED Retrofit Downlight Light Module, 600 lumen, 80CRI, 3000K  
**ML5606835** = 5"/6" LED Retrofit Downlight Light Module, 600 lumen, 80CRI, 3500K  
**ML5606840** = 5"/6" LED Retrofit Downlight Light Module, 600 lumen, 80CRI, 4000K

**ML56 LED Trims**

**690 Series - 6" LED Trims**  
**Non-Conductive "Dead Front" Baffles**  
**691WB=6"** LED Trim, Polymer "Dead-Front", Shallow White Baffle & Flange (For use with 600 Series LED Light Modules only)  
**Reflectors**  
**692SC=6"** LED Downlight Trim, Specular Reflector & White Flange  
**692H=6"** LED Downlight Trim, Haze Reflector & White Flange  
**692W=6"** LED Downlight Trim, White Reflector & Flange  
**Baffles**  
**693WB=6"** LED Downlight Trim, White Micro-Step Baffle & Flange  
**693BB=6"** LED Downlight Trim, Black Micro-Step Baffle & Flange  
**693SNB=6"** LED Downlight Trim, Satin Nickel Micro-Step Baffle & Flange  
**693TBZB=6"** LED Downlight Trim, Tuscan Bronze Micro-Step Baffle & Flange

**ML56 System Accessories**

**ML56CLIP** = 6" Friction Clip Kit - For use with non-torsion spring housings. 6" clips included.  
**WW6955C** = Wall Wash Insert - Specular Kick Reflector for 695WW (1 included with trim). For double wall washing or replacement.  
**TRM690WH** = 6" LED Oversize Trim Ring for use with 59" series trims, White 6.9" I.D., 9.5" O.D.  
 Ring slips over LED trim. Inset design allows 6" trim to fit into oversize ring for an even trim surface  
**EBA560PK** = Replacement screwbase adapter to LED disconnect with cap  
**ML56-1200 Series Beam Forming Optic Media**  
**BFR56NFL**=Beam forming/reflector kit, narrow flood, 25" nominal  
**BFR56MH**=Media holder, accepts one 3.45" lens. Requires BFR56NFL & L345SF, order separately.  
**L345SF**=3.45" diameter soft focus lens. Requires BFR56NFL and BFR56MH, order separately.

**900 Series / 90 CRI**  
**ML5609827** = 5"/6" LED Retrofit Downlight Light Module, 900 lumen, 80CRI, 2700K  
**ML5609830** = 5"/6" LED Retrofit Downlight Light Module, 900 lumen, 80CRI, 3000K  
**ML5609835** = 5"/6" LED Retrofit Downlight Light Module, 900 lumen, 80CRI, 3500K  
**ML5609840** = 5"/6" LED Retrofit Downlight Light Module, 900 lumen, 80CRI, 4000K  
**900 Series / 90 CRI**  
**ML5609927** = 5"/6" LED Retrofit Downlight Light Module, 900 lumen, 90CRI, 2700K  
**ML5609930** = 5"/6" LED Retrofit Downlight Light Module, 900 lumen, 90CRI, 3000K  
**ML5609935** = 5"/6" LED Retrofit Downlight Light Module, 900 lumen, 90CRI, 3500K  
**ML5609940** = 5"/6" LED Retrofit Downlight Light Module, 900 lumen, 90CRI, 4000K  
**1200 Series / 80 CRI**  
**ML5612827** = 5"/6" LED Light Module, 1200 lumen, 80CRI, 2700K  
**ML5612830** = 5"/6" LED Light Module, 1200 lumen, 80CRI, 3000K  
**ML5612835** = 5"/6" LED Light Module, 1200 lumen, 80CRI, 3500K  
**ML5612840** = 5"/6" LED Light Module, 1200 lumen, 80CRI, 4000K  
**1200 Series / 90 CRI**  
**ML5612927** = 5"/6" LED Light Module, 1200 lumen, 90CRI, 2700K  
**ML5612930** = 5"/6" LED Light Module, 1200 lumen, 90CRI, 3000K  
**ML5612935** = 5"/6" LED Light Module, 1200 lumen, 90CRI, 3500K  
**ML5612940** = 5"/6" LED Light Module, 1200 lumen, 90CRI, 4000K

**Cooper Lighting**  
by **Eaton**

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Specifications and dimensions subject to change without notice.

Catalog #	ML712835TUNVD010	Type	
Project	High Crossings Blvd.	OR	
Comments	With 492-PS TRIM	Date	7-10-15
Prepared by	KRK		

## Description

The Halo LED 1200 Series High Lumen Modules are universal voltage (120-277V) rated for commercial and residential applications. The Halo LED ML7128xxTUNVD010 Modules are designed for retrofit applications with an Edison screw base adapter (included) for use in compatible existing 6" nominal Non-IC housings OR may also be used in new construction with the LED dedicated Non-IC housing Series H750Tx. Halo LED 1200 Series offers a selection of four color temperatures: 2700K, 3000K, 3500K, 4000K. Halo LED offers superior optical design that yields productive beam lumens, good cutoff and low glare.

## Specification Features

The Halo LED 1200 Series offers comparable light output and distribution of a 90W PAR38 halogen lamp, a 120W BR40 incandescent lamp, or a 32W compact fluorescent luminaire (lamp & reflector trim), while consuming less than 25 watts.

### Dimming

The HALO LED 1200 Series luminaire offers 0-10V dimming capability to <10% with compatible 0-10V dimming controls.

### Quality of Light

Halo 1200 Series Provides excellent color rendering (80 CRI), and a selection of four color temperatures (2700K, 3000K, 3500K and 4000K). CRI and color temperature performance conform to parameters established by ENERGY STAR® SSL standards (refer to ANSI-C78.377 -2008 for CCT specifications). LED's have virtually no ultraviolet and minimal infrared wavelengths, and they do not direct heat like conventional lamps.

### Optical Design

Optical design yields productive beam lumens, 50° cutoff, and low glare.

### Life

Rated for 50,000 hours at 70% lumen maintenance.

### Compatibility

The Halo ML7128xxTUNVD010 LED modules are designed for use in the dedicated H750Tx series Non-IC housings OR for retrofit applications in existing Halo or ALL-PRO™ H7T/ET7 Non-IC housings. The ML7128xxTUNVD010 Halo LED modules are designed for use in Non-IC construction only. Compatible HALO and ALL-PRO housings include model numbers:

- Dedicated LED Housings:

- H750TDD010, H750RTDD010 and H750TCPPD010 Non-IC Housing with 0-10V dimming connections included (use these housings for 0-10V dimming)
- H750T, H750TCP Non-IC Housing (Non-Dim functionality only as these housings do not provide 0-10V dimming connections)
- Halo and All-Pro Incandescent Housings:

- H7Tx and ET7x Non-IC Housing (Non-Dim functionality only as these housings do not provide 0-10V dimming connections)

### Screw Base Adapter

Edison screw-base adapter supplied with module allows simple wiring connection to existing housing.

### Module Construction

Durable die-cast and extruded aluminum construction conducts heat away from the LED keeping the junction temperatures below specified maximums even when installed in non-insulated ceiling environments.

### Air-Tite™ Rating

The Halo LED module has passed restricted air flow testing, and now qualifies any housing to meet air-tight building codes. Certified under ASTM-E283 standards.

### LED Driver

The LED module is controlled by a high efficiency driver with a power factor of >.90 at an input power of 90V-305V, 50/60Hz. Driver has integral thermal protection in the event of over temperature or internal failure.

### Warranty

Cooper Lighting provides a three year limited warranty on the Halo LED Luminaire which includes the LED Module, LED Recessed Non-IC Housing and LED trims.

## LED Module in New or Existing Non-IC Construction – Housings other than Halo or All-Pro

If used in Non-IC construction with recessed housings other than Halo or All-Pro the Cooper Lighting 3-year warranty applies to the LED Module and Trim only. As with any electrical installation, a qualified electrician must ensure compatibility of use with a particular housing; this includes all applicable national and local electrical and building codes. Installer is responsible to securely retain the LED Module and Trim in a housing at time of installation.

### Compliance Labels

- UL/cUL Listed
- CE Marking - "Conformité Européene" conformity with the Council of European Communities Directives, meeting internationally recognized compliance
- UL/cUL Damp Location Listed
- UL/cUL Wet Location, Protected Ceiling Listed and IP66 rated with designated trims
- RoHS Compliant
- For use in Non-IC housings only. If insulation is present it must be kept a minimum of 3" from all sides and top of housing.

### Qualification

Can be used to meet High Efficacy luminaire requirements (when used with designated trims):

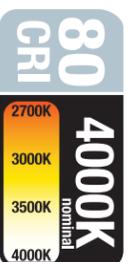
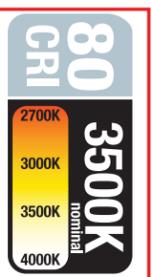
- ENERGY STAR®
- International Energy Conservation Code (IECC) High Efficacy

### Air-Tite™ Compliant

- Washington State Energy Code
- Certified Under ASTM-E283



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.



## ML7128xxTUNVD010

**6" LED module and trim for new construction OR retrofit applications**

**1200 Series LED 0-10V dimmable module**

**2700°K, 3000°K, 3500°K, 4000°K correlated color temperature**

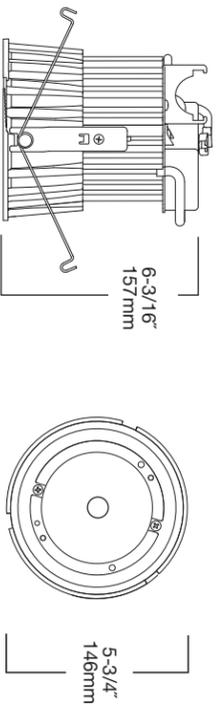
**494WB06 Halo LED series trim**

**For use in non-insulated ceilings OR insulated ceilings**  
**But insulation must be kept 3" from all sides of fixture**

### 1200 Series Energy Data:

(Values at non-dimming line voltage)	
Minimum Starting Temp: -30°C (-22°F)	
EMV/RFI: FCC Title 47 CFR, Part 18, Class B (Consumer)	
Sound Rating: Class A standards	
Input Voltage: UNV (90V - 305V)	
Power Factor: >0.90 (at nominal input 120/230/240/277 VAC & 100% of Rated Output Power)	
Input Frequency: 47-63 Hz	
THD: <21%	
Input Power: 24.8W	
Input Current at 120V: 207mA	
Input Current at 277V: 90mA	
Maximum Non-IC Ambient Continuous Operating Temperature 40°C (104°F)	

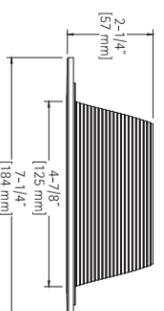
**Dimensions**



- 494WB06 White baffle with white trim ring**
- Halo matte white finish die-cast trim ring
  - Halo Matte White die-cast baffle
  - Trim ring height of .160" at OD and .180" at ID
  - Provides clearance for remodeler flange and gasket for Air-Tite™ seal



**Accessory:**  
494OPTIC - over optic lens



**494OPTIC Lens Over-Optic for Open LED Trims**

Optional accessory - diffusing lens drops into top of open 494 Series LED trims. Precision formed lens media provides diffusion of LED source brightness.

Compatible with: **494WB06**



**ML7RAB Retrofit Adapter Band for Housings without Torsion Spring Receivers**

In many retrofit installations the existing (6" nominal aperture) housings have Torsion Spring Receivers that are used to install trims. Many of these housings will allow direct installation of the LED Module. In some existing installations housings do not have torsion spring receivers. The ML7RAB was designed for installation into those housings. The ML7RAB kit can retrofit four non-torsion spring housings; the kit includes:

- 4- Retrofit Adapter Bands (1 per retrofit housing)
- 16- Metal-piercing screws (4 per adapter)
- 8- Retrofit Locking Wire Nuts (2 per adapter)



**Oversize Rings**

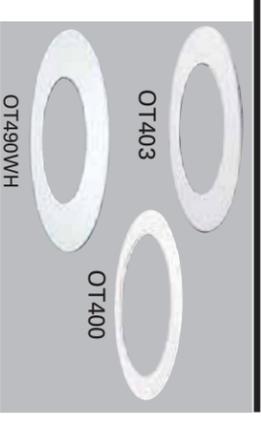
For use when ceiling opening is irregular or cut too large. The oversized ring is installed behind the Halo LED trim ring to mask irregularities or cutout errors of the ceiling opening.

- **OT400P** = Oversize White Metal Trim Ring 6" ID x 9-1/4" OD
- **OT403P** = Oversize White Plastic Trim Ring 6" ID x 8" OD

**Oversize LED Trim Ring**

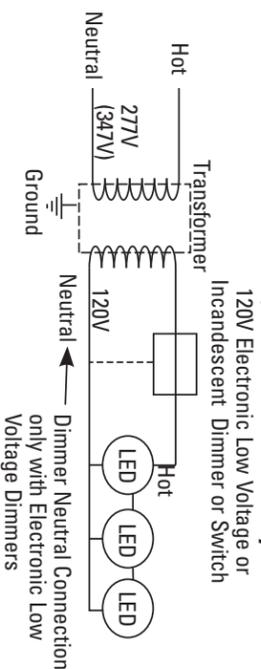
For use when ceiling opening is irregular or cut too large.

- **OT490WH** = LED Oversize White Die-Cast Aluminum Trim Ring 5-1/8" ID x 9-1/4" OD - attaches to LED module, substitute for standard LED trim ring.



**Application Note - H277 and H347 step-down transformers** are qualified to drive multiple Halo LED modules on a single circuit in Non-IC construction. Installation of these transformers on individual fixtures on circuits with multiple LED loads is not recommended. H277 is 300VA and qualified to drive up to 15 Halo LED ML706x modules. H347 is 75VA and qualified to drive up to 3 Halo LED ML706x modules. Installation of individual H277 or H347 transformers on each LED downlight fixture in a multiple LED loaded circuit is not recommended due to resulting multiple inductive currents pulled by each transformer. In this situation the majority of the power would then be reactive (VARS) and not real (WATTS). If H277 or H347 transformers should be used individually on each LED fixture in a single circuit, then that circuit should be sized for lowered power factor as well as increased apparent power on the circuit. H277 and H347 are UL/cUL listed for use with Halo housings: H750T, H750TCP, H7T, H7TNB, H7RT, H750TDD010, H750RTD010, H750TCPD010 housings.

**Transformer with Dimmer /Switch on Secondary**

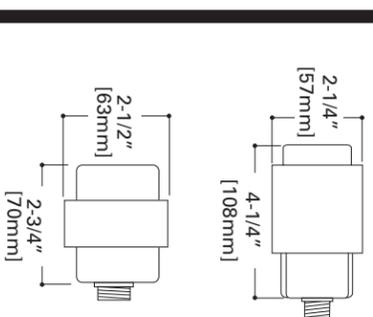
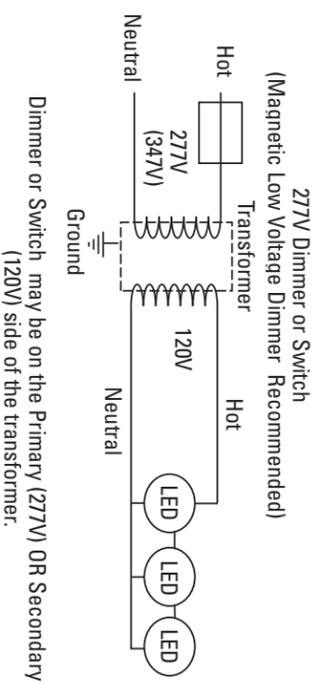


**H277**  
277V Step Down  
Transformer,  
300VA



**H347**  
347V Step Down  
Transformer,  
75VA

**Transformer with Dimmer /Switch on Primary**



**H277**  
**H347**

**Step Down Transformers**  
**H277**=Steps 277 line voltage down to 120 volts. Attaches to knockout on first fixture's junction box in a circuit and is 300VA rated (15 modules max.). H277 is a UL recognized Component listed under the luminaire UL/cUL listing for Non-IC housings and LED Module.  
**H347**=Steps 347 line voltage down to 120 volts. Attaches to knockout on first fixture's junction box in a circuit and is 75VA rated (3 modules max.). H347 is a CSA/UL Listed Component for use under the luminaire UL/cUL listing with Non-IC housings and a LED Module.

**Transformer Load - H277 (300VA)**

- H277 Transformer at full loading consumes a maximum of 16W of power
- When dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 6.5W and in "ON" mode at 16W maximum with full loading.
- When a dimmer or switch is on the primary (277V) side of the transformer, power is consumed only in "ON" mode to a maximum of 16W under full loading.

**Transformer Load - H347 (75VA)**

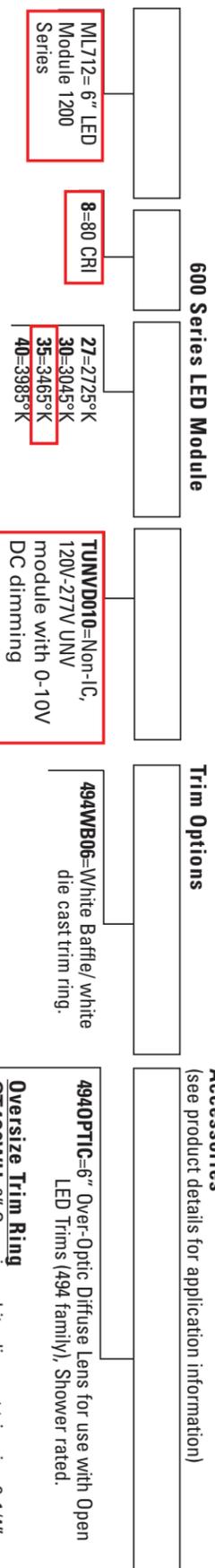
- H347 Transformer at full loading consumes a maximum of 15W of power
- When dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 2.5W and in "ON" mode at 15W maximum with full loading.
- When a dimmer or switch is on the primary (347V) side of the transformer, power is consumed only in "ON" mode to a maximum of 15W under full loading.

**Protected / Non-insulated Soffits, Porches, and Canopies**

Halo LED modules when used with Non-IC recessed housings in Non-Insulated protected soffits, porches or canopies offers a solution for outdoor accent lighting. Halo LED is rated for operation from -30°C to 40°C when used with H7T, H7TNB, H7RT, ET700, ET700R, H750T, H750TCP, H750RTD010, H750RTCPD010 Series non-IC housings.

**Ordering Information**

Sample number: **ML709827ICAT120D 494WB06**  
 Order LED Module and trim separately



**Accessories**  
 (see product details for application information)

**4940PTIC=6"** Over-Optic Diffuse Lens for use with Open LED Trims (494 family), Shower rated.

**Oversize Trim Ring**  
**OT490WH=6"** Oversize white die-cast trim ring 9-1/4" O.D. Attaches to LED module, substitute for standard trim ring shipped with trims.  
**OT400P=Oversize White Metal Trim Ring 6"** ID x 9-1/4" OD  
**OT403P=Oversize White Plastic Trim Ring 6"** ID x 8" OD

**Transformer**  
**H277=300VA** Transformer - Steps 277 line voltage down to 120V (see App. Note)  
**H347=75VA** Transformer - Steps 347 line voltage down to 120V (see App. Note)

**Retrofit**  
**ML7RAB=**Retrofit Adapter Band for Housings without Torsion Spring Receivers. The ML7RAB kit supplies parts to retrofit four housings; the kit includes: 4 – Retrofit Adapter Bands with screws and locking wire nuts.

**Eaton**  
 1121 Highway 74 South  
 Peachtree City, GA 30269  
 P: 770-486-4800  
[www.eaton.com/lighting](http://www.eaton.com/lighting)

**Canada Sales**  
 5925 McLaughlin Road  
 Mississauga, Ontario L5R 1B8  
 P: 905-501-3000  
 F: 905-501-3172

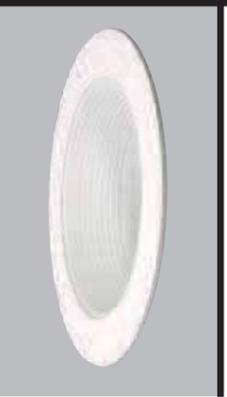
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 Printed in USA  
 Publication No. TD518016EN  
 June 22, 2015

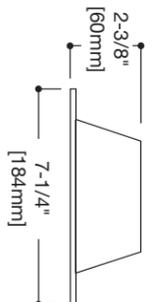
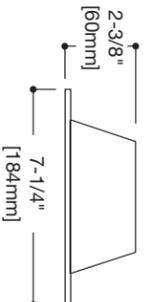
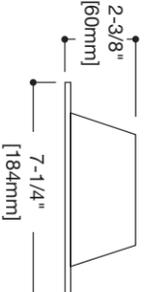
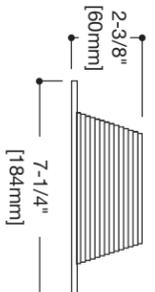
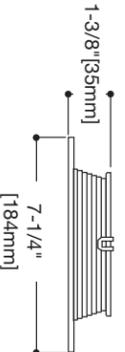
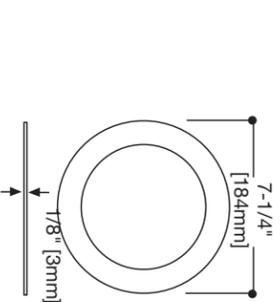
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 All other trademarks are property of their respective owners.  
 Product availability, specifications, and compliances are subject to change without notice.

**DESCRIPTION: LED Trims**



Multiple reflector and baffle options allow the Halo LED recessed luminaire to be used anywhere in the home. Choose the best reflector finish and trim for the interior space. Aesthetically pleasing regressed shower trim is available for applications requiring wet location listings.

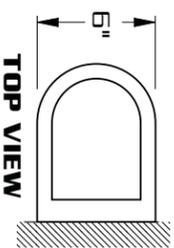
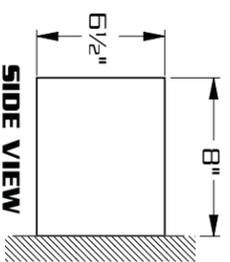
<p><b>494P06 White Reflector with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• Halo matte white finish</li><li>• Die-cast trim ring and aluminum reflector</li><li>• Trim ring height of .160" at OD and .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>494SC06 Specular Reflector with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• Halo matte white finish trim ring</li><li>• Die-cast trim ring and aluminum reflector</li><li>• Trim ring height of .160" at OD and .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>494H06 Haze Reflector with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• Halo matte white finish trim ring</li><li>• Die-cast trim ring and aluminum reflector</li><li>• Trim ring height of .160" at OD and .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>494WB06 White Baffle with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• Halo matte white finish</li><li>• Die-cast trim ring and aluminum reflector</li><li>• Trim ring height of .160" at OD and .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>492PS06 White Lensed Shower Trim with White Trim Ring</b></p> <ul style="list-style-type: none"><li>• White trim ring and baffle, regressed lens</li><li>• Wet location listed for use in showers and protected canopy applications</li><li>• Suggested for use:<ul style="list-style-type: none"><li>- over tubs and showers</li><li>- eaves and soffits</li></ul></li><li>• Aluminum baffle and die-cast trim ring</li><li>• Frosted glass regressed lens</li><li>• Trim Height of .160" at OD &amp; .180" at ID</li><li>• Provides clearance for remodeler flange and gasket for AIR-TITE™ seal</li></ul>	
<p><b>TRM490WH Thin Profile Trim Ring (Optional Accessory)</b></p> <ul style="list-style-type: none"><li>• Die-cast trim ring</li><li>• Thin trim ring provides a more subtle ceiling appearance</li><li>• Purchase as accessory and discard ring supplied with trim</li><li>• Trim ring height of .120" at OD and .180" at ID</li></ul>	



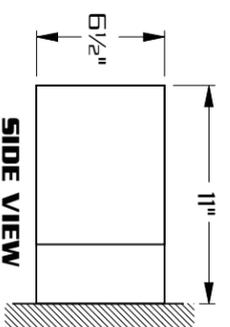
**COOPER LIGHTING**

# L A S E R

Type OW  
High Crossings  
Boulevard



**L55552**  
(QUARTZ HALOGEN)  
(100 WATT. MAX.)



**L55562**  
(H.I.D. - 70 WATT. MAX.)

Yamada design



## SPECIFICATIONS:

**HOUSING:** PRECISE CORROSION RESISTANT DURABLE CAST ALUMINUM CONSTRUCTION.

**OPTICS:** BI-CONVEX LENS FEATURES DIRECTIONAL LASER BEAM CONTROL AND (OR) GENERAL ILLUMINATION (92° BEAM MAXIMUM.)

**LAMP HOLDER:** H.I.D.-MEDIUM BASE PORCELAIN;  
**QUARTZ-MINI CAN FOR TUNGSTEN HALOGEN SINGLE ENDED LAMP.**

**LAMP:** (BY OTHERS)

**BALLAST:** H.P.F./C.W.A. AUTOTRANSFORMER, -20° STARTING TEMPERATURE. ELECTRICAL COMPONENTS ARE MOUNTED TO A REMOVABLE BALLAST TRAY.

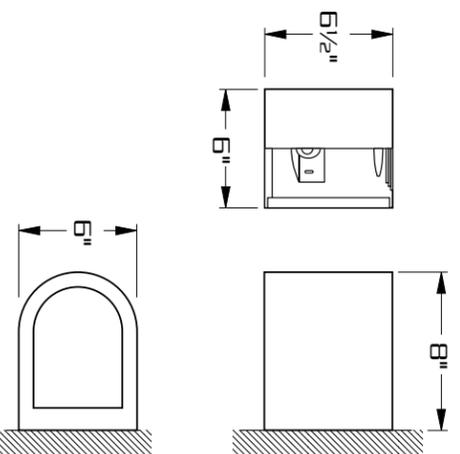
**MOUNTING:** WALL MOUNT, COLUMN MOUNT.

**FINISH:** POLYESTER POWDER COAT-STATE OF THE ART 20 PSI PRESSURE POWER WASH AT 140° TEMPERATURE INCORPORATES FOUR STEP IRON PHOSPHATE PROCESS TO CLEANSE AND PRETREAT THE METAL SURFACE FOR MAXIMUM PAINT ADHESION. ELECTROSTATICALLY APPLIED TEXTURED POLYESTER POWDER TOPCOAT IS BAKED AT 400° TEMPERATURE FOR MAXIMUM HARDNESS AND EXTERIOR DURABILITY.

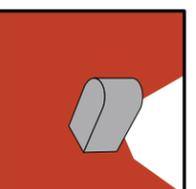
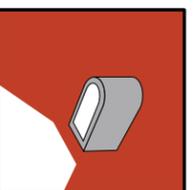
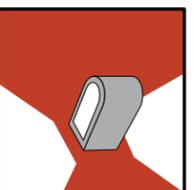
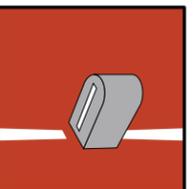
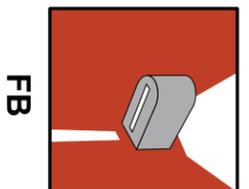
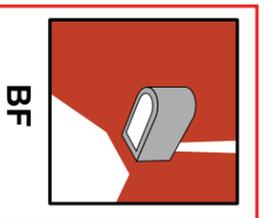
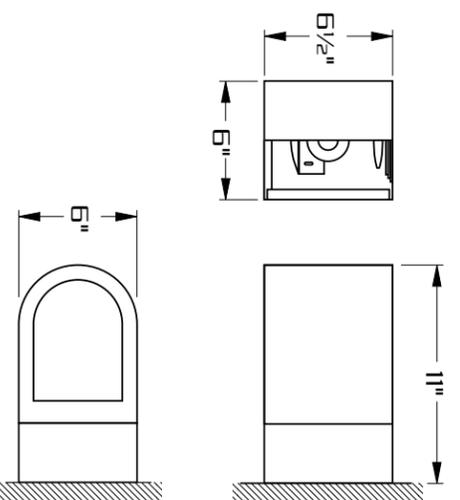


680 WEST AVENUE O, PALMDALE, CA. 93551  
(661) 233-2000  
FAX NO. (661) 233-2001  
www.usalighting.com

**LAS5552**  
[QUARTZ HALOGEN]



**LAS5562**  
[H.I.D.]



**ORDERING INFORMATION**

MODEL NO. : LA5562	WATTAGE TYPE VOLTAGE H50	FINISH RAL-9003-T	OPTIONS BF																								
<b>MODEL NO. :</b>	<b>LAMP</b>	<b>FINISH</b>	<b>OPTIONS</b>																								
<input type="checkbox"/> QUARTZ HALOGEN <b>LAS5552</b>	<table border="0"> <tr> <td>WATTAGE</td> <td>TYPE</td> <td>VOLTAGE</td> </tr> <tr> <td><input type="checkbox"/> 100</td> <td><input type="checkbox"/> HPS</td> <td><input checked="" type="checkbox"/> 120</td> </tr> <tr> <td><input type="checkbox"/> 70</td> <td><input checked="" type="checkbox"/> MH</td> <td><input type="checkbox"/> 208</td> </tr> <tr> <td><input checked="" type="checkbox"/> 50</td> <td><input type="checkbox"/> QUARTZ HALOGEN</td> <td><input type="checkbox"/> 240</td> </tr> </table>	WATTAGE	TYPE	VOLTAGE	<input type="checkbox"/> 100	<input type="checkbox"/> HPS	<input checked="" type="checkbox"/> 120	<input type="checkbox"/> 70	<input checked="" type="checkbox"/> MH	<input type="checkbox"/> 208	<input checked="" type="checkbox"/> 50	<input type="checkbox"/> QUARTZ HALOGEN	<input type="checkbox"/> 240	<table border="0"> <tr> <td>STANDARD TEXTURED FINISH</td> </tr> <tr> <td><input type="checkbox"/> BLACK RAL-9005-T</td> </tr> <tr> <td><input type="checkbox"/> WHITE RAL-9003-T</td> </tr> <tr> <td><input type="checkbox"/> GREY RAL-7004-T</td> </tr> <tr> <td><input type="checkbox"/> DRK BRONZE RAL-8019-T</td> </tr> <tr> <td><input type="checkbox"/> GREEN RAL-6005-T</td> </tr> </table>	STANDARD TEXTURED FINISH	<input type="checkbox"/> BLACK RAL-9005-T	<input type="checkbox"/> WHITE RAL-9003-T	<input type="checkbox"/> GREY RAL-7004-T	<input type="checkbox"/> DRK BRONZE RAL-8019-T	<input type="checkbox"/> GREEN RAL-6005-T	<table border="0"> <tr> <td><input type="checkbox"/> BEAM UP, FLOOD DOWN... <b>BF</b></td> </tr> <tr> <td><input type="checkbox"/> FLOOD UP, BEAM DOWN... <b>FB</b></td> </tr> <tr> <td><input type="checkbox"/> BEAM UP, BEAM DOWN... <b>BB</b></td> </tr> <tr> <td><input type="checkbox"/> FLOOD UP, FLOOD DOWN... <b>FF</b></td> </tr> <tr> <td><input type="checkbox"/> NO UP LIGHT, FLOOD DOWN... <b>NF</b></td> </tr> <tr> <td><input type="checkbox"/> FLOOD UP, NO DOWN LIGHT... <b>FN</b></td> </tr> </table>	<input type="checkbox"/> BEAM UP, FLOOD DOWN... <b>BF</b>	<input type="checkbox"/> FLOOD UP, BEAM DOWN... <b>FB</b>	<input type="checkbox"/> BEAM UP, BEAM DOWN... <b>BB</b>	<input type="checkbox"/> FLOOD UP, FLOOD DOWN... <b>FF</b>	<input type="checkbox"/> NO UP LIGHT, FLOOD DOWN... <b>NF</b>	<input type="checkbox"/> FLOOD UP, NO DOWN LIGHT... <b>FN</b>
WATTAGE	TYPE	VOLTAGE																									
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<input type="checkbox"/> FLOOD UP, NO DOWN LIGHT... <b>FN</b>																											
<input checked="" type="checkbox"/> H.I.D. <b>LAS5562</b>	<p><b>NOTES:</b> QUARTZ HALOGEN UNITS - MAX. 100 WATTS H.I.D. UNITS - MAX. 70 WATTS</p>	<p>FOR SMOOTH FINISH REMOVE SUFIX™ (EXAMPLE: RAL-9005)</p> <p>SEE WEBSITE FOR ADDITIONAL COLORS</p>																									

# WPLED10



LED 10W & 13 Wallpacks. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze

Weight: 3.3 lbs

<b>Project:</b> High Crossing Blvd.	<b>Type:</b> OW1
<b>Prepared By:</b> Lyons Electric	<b>Date:</b> 7-10-15

Driver Info	LED Info		
Type:	Constant Current	Watts:	10W
120V:	0.21A	Color Temp:	5000K (Cool)
208V:	0.14A	Color Accuracy:	92 CRI
240V:	0.12A	L70 Lifespan:	100,000
277V:	N/A	Lumens:	548
Input Watts:	13W	Efficacy:	42 LPW
Efficiency:	76%		

## Technical Specifications

### Listings

#### UL Listing:

Suitable for Wet Locations as a Downlight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of ground.

#### Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

#### IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

#### LED Characteristics

##### Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

##### Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

##### Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

##### Color Uniformity:

RAB's of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2008.

#### Construction

##### Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

#### Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

#### Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

#### Thermal Management:

Cast aluminum Thermal Management system for optimal heat sinking. The LPACK is designed for cool operation, most efficient output and maximum LED life by minimizing LED junction temperature.

#### Housing:

Precision die cast aluminum housing, lens frame.

#### Mounting:

Junction box.

#### Green Technology:

RAB LEDs are Mercury, Arsenic and UV free.

#### For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

#### Gaskets:

High Temperature Silicone.

### Electrical

#### Driver:

Multi-chip 10W high output long life LED Driver  
Constant Current, Class II, 120V-240V, 50/60/ Hz, 350mA.

#### Optical

##### Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

##### Other

#### California Title 24:

See WPLED10/PC for a 2013 California Title 24 compliant model.

#### Patents:

The LPACK design is protected under patents in the U.S. Pat: D608,040, Canada Pat: 130,243, China Pat: 200930183252.2, and pending patents in Taiwan and Mexico.

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

#### Equivalency:

The WPLED10 is Equivalent in delivered lumens to a 70W Metal Halide Wallpack.

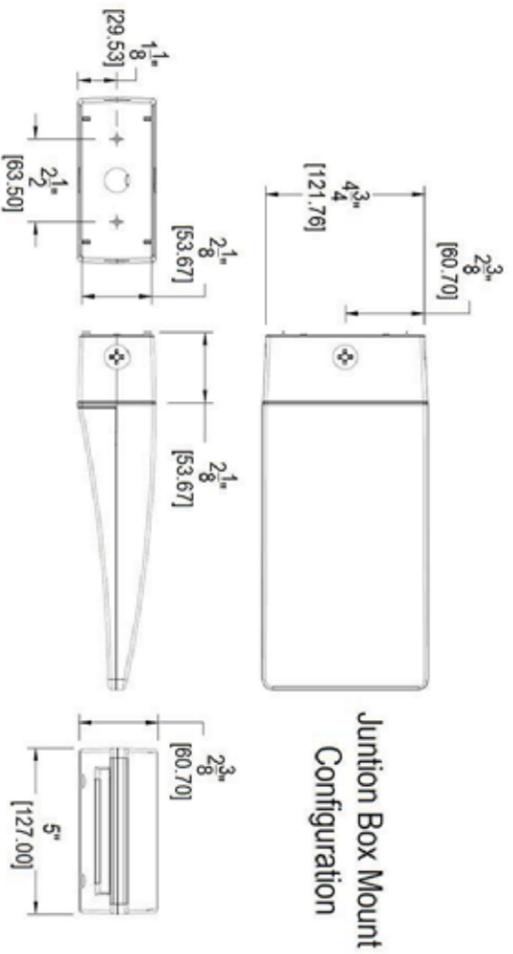
#### HID Replacement Range:

The WPLED10 can be used to replace 35-100W Metal Halide Wallpacks based on delivered lumens.

# WPLED10



## Dimensions



## Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 5-year warranty

## Ordering Matrix

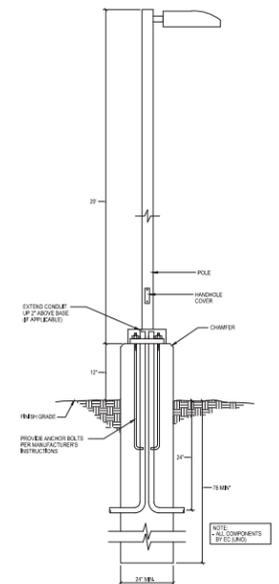
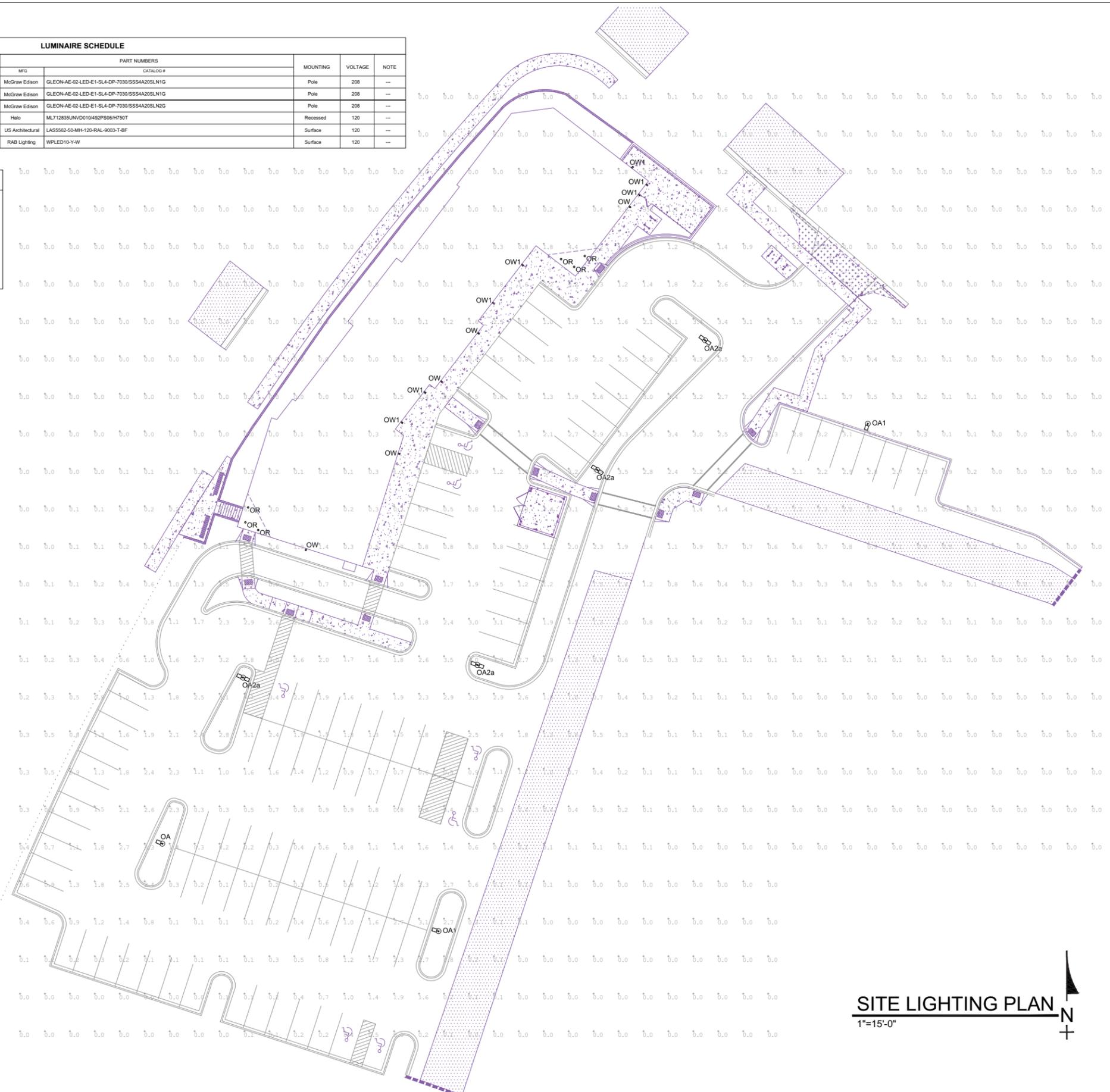
Family	Watts	Color Temp	Sensor	Surface Plate	Surface Place	Finish	Photocell
WPLED	10 = 10W 13 = 13W	= Cool Y = Warm N = Neutral	= No Sensor MS = Mini Sensor	= No Surface Plate	S = Surface Plate	= Bronze W = White	= No Photocell /PC = 120V Button /PCS = 120V Swivel /PC2 = 277V Button

SITE  
SUBMITTAL  
7-10-15

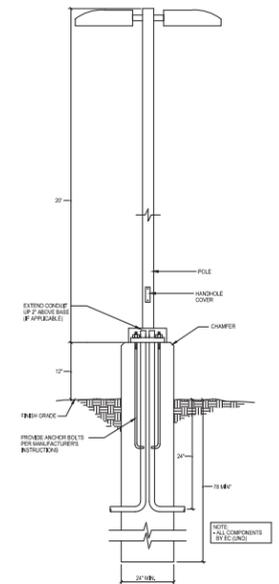
LUMINAIRE SCHEDULE									
QTY	TYPE	DESCRIPTION	LAMP DATA		PART NUMBERS		MOUNTING	VOLTAGE	NOTE
			#	TYPE	MFG	CATALOG #			
1	OA	20' LED Single Head Pole	LED	107 Watt-3000K-CR170-9.976 Lumens	McGraw Edison	GLEON-AE-02-LED-E1-SL4-DP-7030/SSA420SLN1G	Pole	208	—
2	OA1	20' LED Single Head Pole	LED	107 Watt-3000K-CR170-9.976 Lumens	McGraw Edison	GLEON-AE-02-LED-E1-SL4-DP-7030/SSA420SLN1G	Pole	208	—
4	OA2a	20' LED Dual Head Pole	LED	107 Watt-3000K-CR170-9.976 Lumens	McGraw Edison	GLEON-AE-02-LED-E1-SL4-DP-7030/SSA420SLN2G	Pole	208	—
6	OR	6" Recessed LED Can	LED	24.8 Watt-3500K-CR80-1,200 Lumens	Halo	ML71283UNVD10492P506H750T	Recessed	120	—
5	OW	Beam Up/Flood Down Wall Pack	1	50 Watt MH-4000K-CR65-3,400 Lumens	US Architectural	LASS562-50-MH-120-RAL-9003-T-BF	Surface	120	—
7	OW1	Wall Pack Full Cut Off	LED	10 Watt-3500K-CR82-548 Lumens	RAB Lighting	WPLED10-Y-W	Surface	120	—

STATAREA

ILLUMINANCE VALUES (FC)  
 AVERAGE = 1.72  
 MAXIMUM = 5.4  
 MINIMUM = 0.1  
 AVG/MIN RATIO = 17.20  
 MAX/MIN RATIO = 54.00  
 MAX/AVG RATIO = 3.14



**TYPE OA & OA1**  
NTS



**TYPE OA2a**  
NTS

**SITE LIGHTING PLAN**  
1"=15'-0"

LYONS ELECTRIC IS NOT LIABLE OR HELD RESPONSIBLE FOR THE INSTALL ASSOCIATED WITH THIS DRAWING SET. THE INSTALLING ELECTRICAL CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR A FULLY CODE COMPLIANT ELECTRICAL SYSTEM REGARDLESS OF THE INFORMATION FOUND IN THIS DRAWINGS SET.



REVISIONS		
NO.	DESCRIPTION	DATE

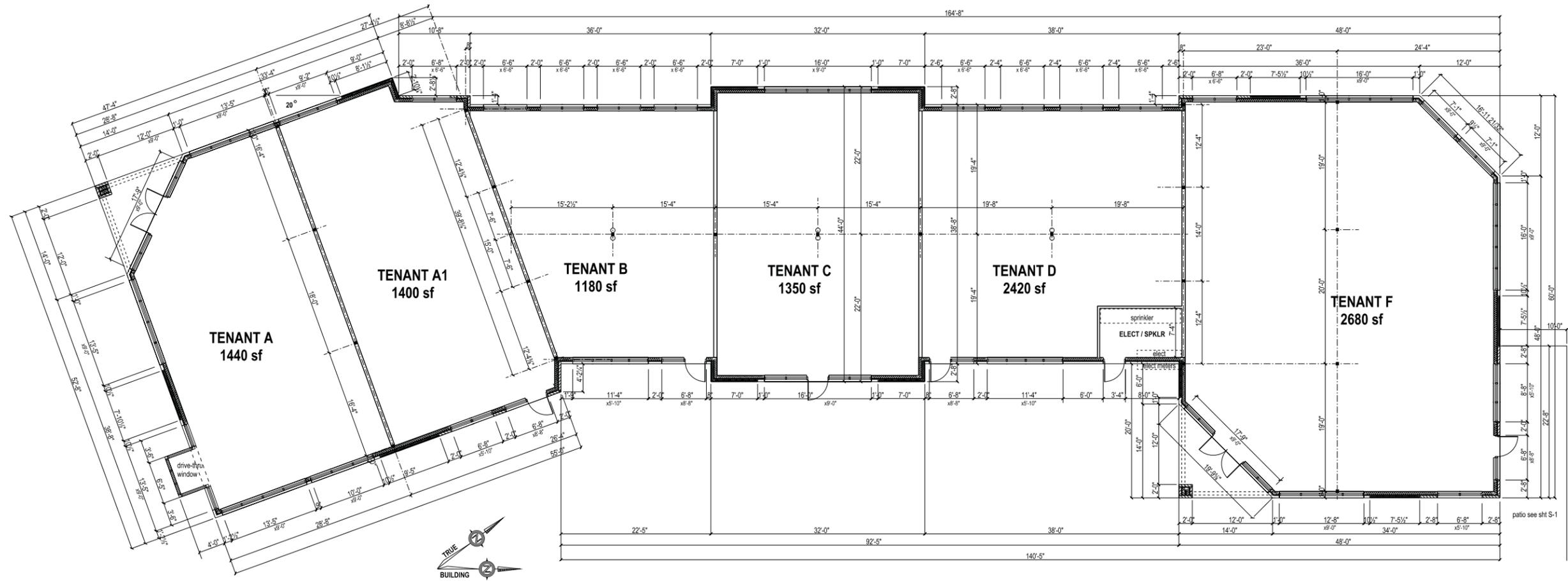
FIRM NAME AND ADDRESS:  
**LYONS ELECTRIC**  
 75 ENTERPRISE ROAD  
 DELAFIELD, WI 53018

CONTACT INFORMATION:  
 TIM CARGILL  
 MAIN: (262)-646-6828  
 FAX: (262)-646-6829

PROJECT NAME:  
**5235 HIGH CROSSING BOULEVARD**  
 MADISON, WI  
 DANE COUNTY

SHEET TITLE:	
<b>OVERALL SITE LIGHTING PLAN</b>	
DRAWN BY: DMG	JOB NUMBER: -
DATE DRAWN: 7-10-15	APPROVED BY: KRK
SHEET OF	
<b>1 1</b>	
SHEET #: <b>ES100</b>	



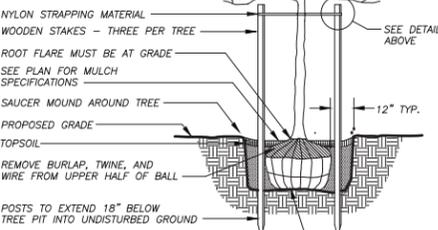
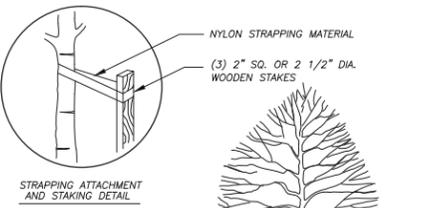


**TENANT SUITE FLOOR PLAN**

1/8"=1'-0" AREAS SHOWN ARE APPROXIMATE

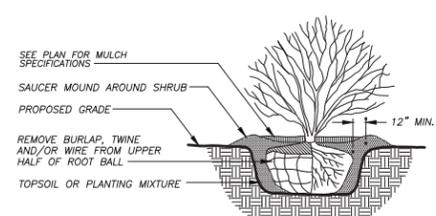
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		2906 Marketplace Dr, Fitchburg, WI, 53719 phone: 608-224-0777 fax: 608-224-0778 www.supremestructures.com	
		DRAWN BY: <b>TM</b>	
1925 Tarragon Drive, Madison, WI, 53716-2332 608-467-7455 E-mail: mccoysengineering@charter.net		APPROVED BY: 	
PROJECT: <b>HIGH CROSSING          RETAIL CENTRE</b>		DATE: <b>4-11-16</b>	
LOCATION: <b>HIGH CROSSING BLVD          MADISON, WI</b>		SCALE: As Shown	
SHEET TITLE: <b>TENANT SUITE PLAN</b>		DRAWING NO: <b>T1512</b>	
		SHEET NO: <b>A-2a</b>	



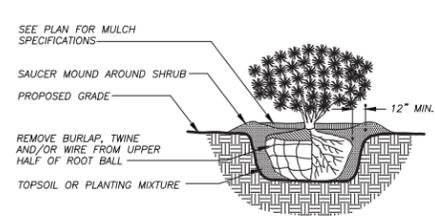
**1 DECIDUOUS TREE PLANTING DETAIL**  
N.T.S.

**2 L20**



**3 EVERGREEN SHRUB PLANTING DETAIL**  
N.T.S.

**2 L20**

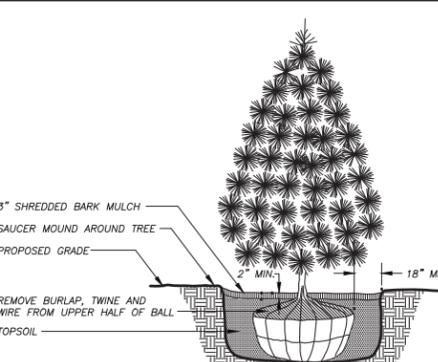


**4 EVERGREEN TREE PLANTING DETAIL**  
N.T.S.

**4 L20**

**LANDSCAPE NOTES AND SPECIFICATIONS**

- GENERAL:** ALL WORK IN THE R-O-W AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON REQUIREMENTS. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES. LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO UTILITIES. CONTRACTOR MUST CALL 1-800-382-5544 FOR UTILITY LOCATIONS AT LEAST THREE DAYS PRIOR TO DIGGING. HAND DIG AND INSTALL ALL PLANTS THAT ARE NEAR EXISTING UTILITIES. PROTECT PREVIOUSLY INSTALLED WORK OF OTHER TRADES. CONTRACTOR IS RESPONSIBLE FOR STAKING THE PLANT MATERIALS FOR REVIEW BY OWNER PRIOR TO DIGGING AND PLACEMENT. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL FINE GRADING AND RESTORATION WITH THE GRADING CONTRACTOR.
- DELIVERY AND HANDLING:** DO NOT DELIVER MORE PLANT MATERIALS THAN CAN BE PLANTED IN ONE DAY. DELIVER PLANTS WITH LEGIBLE IDENTIFICATION LABELS. PROTECT PLANTS DURING DELIVERY AND DO NOT PRUNE PRIOR TO DELIVERY. ALL TREES AND SHRUBS SHALL BE PLANTED ON THE DAY OF DELIVERY; IF THIS IS NOT POSSIBLE, PROTECT THAT STOCK NOT PLANTED BY STORING STOCK IN A SHADED AREA PROTECTING THE ROOT MASS WITH WET SOIL, MOSS OR OTHER SUITABLE MEDIA AND KEEPING WELL WATERED. DO NOT REMOVE CONTAINER GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING. DO NOT PICK UP CONTAINER OR BALLED PLANTS BY STEM OR ROOTS. ALL PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE BALL. PERFORM ACTUAL PLANTING ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICES.
- GUARANTEE:** THE CONTRACTOR SHALL GUARANTEE ALL PLANTS THROUGH ONE (1) YEAR AFTER ACCEPTANCE BY OWNER. PLANTS SHALL BE ALIVE AND IN GOOD HEALTHY AND FLOURISHING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE CONTRACTOR SHALL REPLACE WITHOUT COST TO THE OWNER ANY PLANTS THAT ARE DEAD OR NOT IN A VIGOROUS THRIVING CONDITION. REPLACEMENT PLANTS SHALL BE OF THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED UNLESS OTHERWISE DIRECTED BY OWNER. RESTORE BEDS AS NECESSARY FOLLOWING PLANT REPLACEMENT, INCLUDING BUT NOT LIMITED TO BEDDING, EDGING, MULCH, ETC. REPAIR DAMAGE TO OTHER PLANTS OR PLANTING AREAS DURING PLANT REPLACEMENT AT NO COST TO OWNER. CONTRACTOR SHALL PROVIDE A TWO (2)-YEAR STRAIGHTENING GUARANTEE FOR ALL TREES.
- MATERIALS - PLANTS:** ALL PLANTS SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1-2004. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST 2 YEARS. PLANTS SHALL BE FRESHLY DUG (DURING THE MOST RECENT FAVORABLE HARVEST SEASON). PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY SUPERIOR IN FORM, COMPACTNESS, AND SYMMETRY. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF, AND FREE OF DISEASE AND INSECTS (ADULT EGGS, PUPAE OR LARVAE). THEY SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH. PLANTS SHALL BE OF THE HIGHEST QUALITY, HAVE TYPICAL GROWTH HABITS FOR THEIR SPECIES, BE SOUND, HEALTHY, VIGOROUS AND FREE OF INJURY. PARKWAY TREES AND PARKING LOT TREES SHALL HAVE A MINIMUM BRANCHING HEIGHT OF SIX (6) FEET ABOVE THE GROUND TO ALLOW ADEQUATE VISUAL AND PHYSICAL CLEARANCE.
- MATERIALS - SOIL:** PLANTING SOIL/COMPACTED TOPSOIL SHALL MEET THESE REQUIREMENTS:
  1. PLANTING AREAS = 24"
  2. TREE PITS = SEE DETAILS
- PLANTING SOIL TO BE A MINIMUM 24" DEPTH, UNLESS OTHERWISE SPECIFIED AS ABOVE OR ON DETAILS. TOPSOIL TO BE CLEAN, FRIABLE LOAM FROM LOCAL SOURCE, FREE FROM STONES OR DEBRIS OVER 3/4" IN DIAMETER, AND FREE FROM TOXINS. TOPSOIL SHALL HAVE A pH VALUE BETWEEN 6 AND 7. TOPSOIL AND PLANTING SOIL SHALL BE TESTED TO CONFORM TO THESE SPECIFICATIONS AND SHALL BE AMENDED TO MEET THESE SPECIFICATIONS. DO NOT PLACE FROZEN OR MUDDY TOPSOIL. APPLY SOIL AMENDMENTS TO ALL LANDSCAPE BEDS PER SOIL TEST.**
- MATERIALS - ALL PLANTING AREAS SHALL RECEIVE FINELY SHREDDED, WEED FREE, HARDWOOD BARK MULCH (DYE-FREE) SPREAD TO A CONSISTENT DEPTH OF THREE INCHES OVER ENTIRE PLANTING AREA UNLESS OTHERWISE SPECIFIED ON PLANS. FERTILIZER SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY AND STATE OF WISCONSIN REQUIREMENTS.**
- MATERIALS - TREE RINGS:** ALL TREES PLANTED IN SODDED LAWN AREAS TO BE INSTALLED WITH A MINIMUM 5' DIAMETER SHREDDED HARDWOOD MULCH TREE RING SPREAD TO A CONSISTENT DEPTH OF THREE INCHES. ALL TREE RINGS SHOULD BE INSTALLED WITH A 5" DEPTH SHOVEL CUT EDGE, ANGLED 45 DEGREES INTO SOIL AT A 5' DIAMETER ABOUT THE CENTER OF THE TREE PLANTING. A PRE-EMERGENT GRANULAR WEED-PREVENTER SHOULD BE MIXED WITH MULCH USED TO INSTALL TREE RING AS WELL AS TOPICALLY APPLIED TO FINISHED INSTALLATION OF TREE RING.
- MATERIALS - WEED BARRIER FABRIC:** ALL PLANTING BEDS SHALL BE INSTALLED WITH WOVEN WEED BARRIER FABRIC. NO PLASTIC/IMPERVIOUS BARRIERS WILL BE PERMITTED. EXAMPLE: BLACK VISQUEEN.
- MATERIALS - EDGING:** EDGING SHALL BE 5" DEEP, POLYETHYLENE EDGING. OWNER SHALL APPROVE SPECIFICATION PROVIDED BY LANDSCAPE CONTRACTOR.
- MATERIALS:** SOD ALL AREAS SPECIFIED ON PLAN PER THESE NOTES: TURFGRASS SOD: CLASS OF TURFGRASS SOD SHALL BE PREMIUM GRADE APPROVED TURFGRASS SOD. ONLY IMPROVED TYPES OF SOD (ELITE) ARE ACCEPTABLE. TURFGRASS SHALL BE MACHINE CUT AT A UNIFORM THICKNESS OF .60 INCH, PLUS OR MINUS .25 INCH, AT TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH. LARGE ROLL TURFGRASS SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH (36-48 INCHES) AND LENGTH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE. STANDARD SIZE SECTIONS OF TURFGRASS SOD SHALL BE STRONG ENOUGH SO THAT IT CAN BE PICKED UP AND HANDLED WITHOUT DAMAGE. TURFGRASS SOD SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL. POST-PLANT IRRIGATION WILL BE NECESSARY TO ENSURE SOD STAYS ALIVE AND ROOTS INTO SOIL. THE CONTRACTOR IS RESPONSIBLE FOR WATERING SOD UNTIL TIME OF ACCEPTANCE BY THE OWNER. TURFGRASS SOD SHALL BE HARVESTED, DELIVERED, AND INSTALLED/TRANSPANTED WITH A PERIOD OF 24 HOURS. TURFGRASS SOD SHALL BE RELATIVELY FREE OF THATCH, UP TO .5 INCH ALLOWABLE (UNCOMPRESSED). TURFGRASS SOD SHALL BE REASONABLY FREE (10 WEEDS/100 SQ. FT.) OF DISEASES, NEMATODES AND SOIL-BORNE INSECTS. ALL TURFGRASS SOD SHALL BE FREE OF GRASSY AND BROAD LEAF WEEDS. THE SOD SUPPLIER SHALL MAKE RECOMMENDATIONS TO THE CONTRACTOR REGARDING WATERING SCHEDULE. THE WATERING SCHEDULE SHOULD BEGIN IMMEDIATELY AFTER SOD IS INSTALLED.
- PRUNING:** THE CONTRACTOR SHALL PRUNE ALL TREES AND REPAIR ANY INJURIES THAT OCCURRED DURING THE PLANTING PROCESS. DOUBLE LEADERS, DEAD BRANCHES, AND LIMBS DAMAGED OR BROKEN DURING THE PLANTING PROCESS SHALL BE PRUNED. THIS SHALL BE THE ONLY PRUNING ALLOWED AT PLANTING. PRUNING SHALL CONFORM TO AMERICAN STANDARD FOR TREE CARE OPERATIONS, ANSI A300. PRUNE TREES IN ACCORDANCE WITH NAA GUIDELINES. DO NOT TOP TREES. PRUNE SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICES. ON CUTS OVER 3/4" IN DIAMETER AND BRUISES OR SOARS ON BARK, TRACE THE INJURED CAMBIAL LAYER BACK TO LIVING TISSUE AND REMOVE. SMOOTH AND SHAPE WOUNDS SO AS NOT TO RETAIN WATER AND COAT THE TREATED AREA WITH AN APPROVED ANTISEPTIC TREE PAINT.
- CLEANUP:** DISPOSED OF EXCESS SOIL. REMOVE ALL CUTTINGS AND WASTE MATERIALS. SOIL, BRANCHES, BINDING AND WRAPPING MATERIALS, REJECTED PLANTS, OR OTHER DEBRIS RESULTING FROM ANY PLANTING SHALL BE PROMPTLY CLEANED UP AND REMOVED. THE WORK AREA SHALL BE KEPT SAFE AND NEAT AT ALL TIMES UNTIL THE CLEANUP OPERATION IS COMPLETED. UNDER NO CIRCUMSTANCES SHALL THE ACCUMULATION OF SOIL, BRANCHES OR OTHER DEBRIS BE ALLOWED UPON A PUBLIC PROPERTY IN SUCH A MANNER AS TO RESULT IN A PUBLIC HAZARD. LIKEWISE, UNDER NO CIRCUMSTANCES SHALL ANY DEBRIS OR INCIDENTAL MATERIALS BE ALLOWED UPON ADJACENT PRIVATE PROPERTY.
- MAINTENANCE:** (CONTRACTOR) FOR ALL PLANTINGS, BUFFER AREAS AND SEEDED LAWN AREAS. THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS AND LAWN AREAS FOR AT LEAST A PERIOD OF 60 DAYS, OR UNTIL FINAL ACCEPTANCE FROM THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY WATERING PLANTS AND LAWN/TURFGRASS DURING THIS 60 DAY ESTABLISHMENT PERIOD. CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF HEALTHY VIGOROUS PLANT MATERIALS AND LAWN/TURFGRASS GROWTH. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRUNING OF PLANT MATERIALS, AND SHAPING AND/OR REPLACEMENT OF DEFICIENT BARK MULCH DURING THIS PERIOD. LONG TERM PLANT MATERIALS AND LAWN/TURFGRASS MAINTENANCE AND ANY PROGRAM FOR SUCH IS THE RESPONSIBILITY OF THE OWNER. ALL PLANTINGS AND LAWN/TURFGRASS AREAS SHALL BE MAINTAINED IN A MANICURED CONDITION.
- MAINTENANCE:** (OWNER) THE OWNER IS RESPONSIBLE FOR THE CONTINUED MAINTENANCE, REPAIR AND REPLACEMENT OF ALL LANDSCAPING MATERIALS AND WEED BARRIER FABRIC AS NECESSARY FOLLOWING THE ONE (1) YEAR CONTRACTOR GUARANTEE PERIOD.



**5 DECIDUOUS TREE PLANTING DETAIL**  
N.T.S.

**4 L20**

**JSD Professional Services, Inc.**  
Engineers • Surveyors • Planners

**CITY OF MADISON**  
**LANDSCAPE WORKSHEET**  
Section 28.642 Madison General Ordinance

**"BUILDING RELATIONSHIPS WITH A COMMITMENT TO CLIENT'S SATISFACTION THROUGH TRUST, QUALITY AND EXPERIENCE"**

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Project Location / Address: 2906 MARKETPLACE DRIVE MADISON, WI 53719  
 Name of Project: 5235 HIGH CROSSING BLVD.  
 Owner / Contact: WALSH PROPERTIES, LLC.  
 Contact Phone: (608) 848-5060 Contact Email: JUSTIN.FRAHM@JSDINC.COM

\*\* Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size MUST be prepared by a registered landscape architect. \*\*

**Applicability:**  
The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lot, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless all of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

- The area of site disturbance is less than ten percent (10%) of the entire development site during any ten (10) year period.
- Green floor area is only increased by ten percent (10%) during any ten (10) year period.
- No demolition of a principal building is involved.
- Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

**Landscaping Calculations and Distribution:**  
Repered landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and stacking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

- For all lots except those described in (b) and (c) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.
 

Total square footage of developed area	49,993
Total landscape points required	833
- For lots larger than five (5) acres, points shall be provided at five (5) points per three hundred (300) square feet for the first five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.
 

Total square footage of developed area	217,000 square feet
Five (5) acres =	217,000 square feet
First five (5) developed acres =	2,625 points
Remainder of developed area	195,380 square feet
Total landscape points required	195
- For the Industrial - Limited (IL) and Industrial - General (IG) districts, one (1) point shall be provided per one hundred (100) square feet of developed area.
 

Total square footage of developed area	100,000 square feet
Total landscape points required	1,000

10/2013

**Calculation of Points and Credits:**  
Use the table to indicate the quantity and points for all existing and proposed landscape elements.

Plant Type/Element	Minimum Size at Installation	Points	Credits/Existing Landscaping		New/Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	7" inch caliper measured diameter at breast height (dbh)	35			17	595
Tall evergreen tree (i.e. pine, spruce)	5-6 feet tall	35				
Ornamental tree	1 1/2 inch caliper	15			5	75
1 story evergreen shrub (i.e. arbutus/ret)	3-4 feet tall	10			14	140
Shrub, deciduous	#3 gallon container size, Min. 12"-24"	3			77	231
Shrub, evergreen	#3 gallon container size, Min. 12"-24"	4			54	216
Ornamental grasses/perennials	#1 gallon container size, Min. 8"-15"	2			586	1172
Ornamental/decorative fencing or wall	n/a	4 per 10 linear ft.				
Existing significant specimen tree	Minimum size: 2 1/2 inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch dbh. Maximum points per tree: 200				
Landscape furniture for public seating and/or transit connections	* Furniture must be within developed area, publicly accessible, and cannot comprise more than 5% of total required points.	5 points per "unit"				
<b>Sub Totals</b>						<b>2429</b>

**Total Number of Points Provided: 2429**

\* As determined by ANSI, ANSI-A American standards for nursery stock. For each size, minimum plant sizes shall conform to the specifications as listed in the current American Standard for Nursery Stock.

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PROJECT:  
**5235 HIGH CROSSING BLVD**

PROJECT LOCATION:  
CITY OF MADISON  
DANE COUNTY, WI

P.O. BOX 1497  
MADISON, WI 53701

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JSD PROJECT NO.: 15-6792

SEAL/SIGNATURE:

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ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

DESIGN:	K.J.Y., A.B.K.	06/23/2015
DRAWN:	K.J.Y., A.B.K.	06/23/2015
APPROVED:	J.L.F.	06/23/2015

**PLAN MODIFICATIONS:**      **DATE:**

UDC INITIAL - FINAL	05/27/2015
UDC INITIAL - FINAL RESUBMITTAL	06/24/2015
UDC FINAL RESUBMITTAL	08/26/2015
SITE PLAN VERIFICATION	09/22/2015
SITE PLAN VERIFICATION RESUBMITTAL	04/13/2016

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**DIGGERS HOTLINE**

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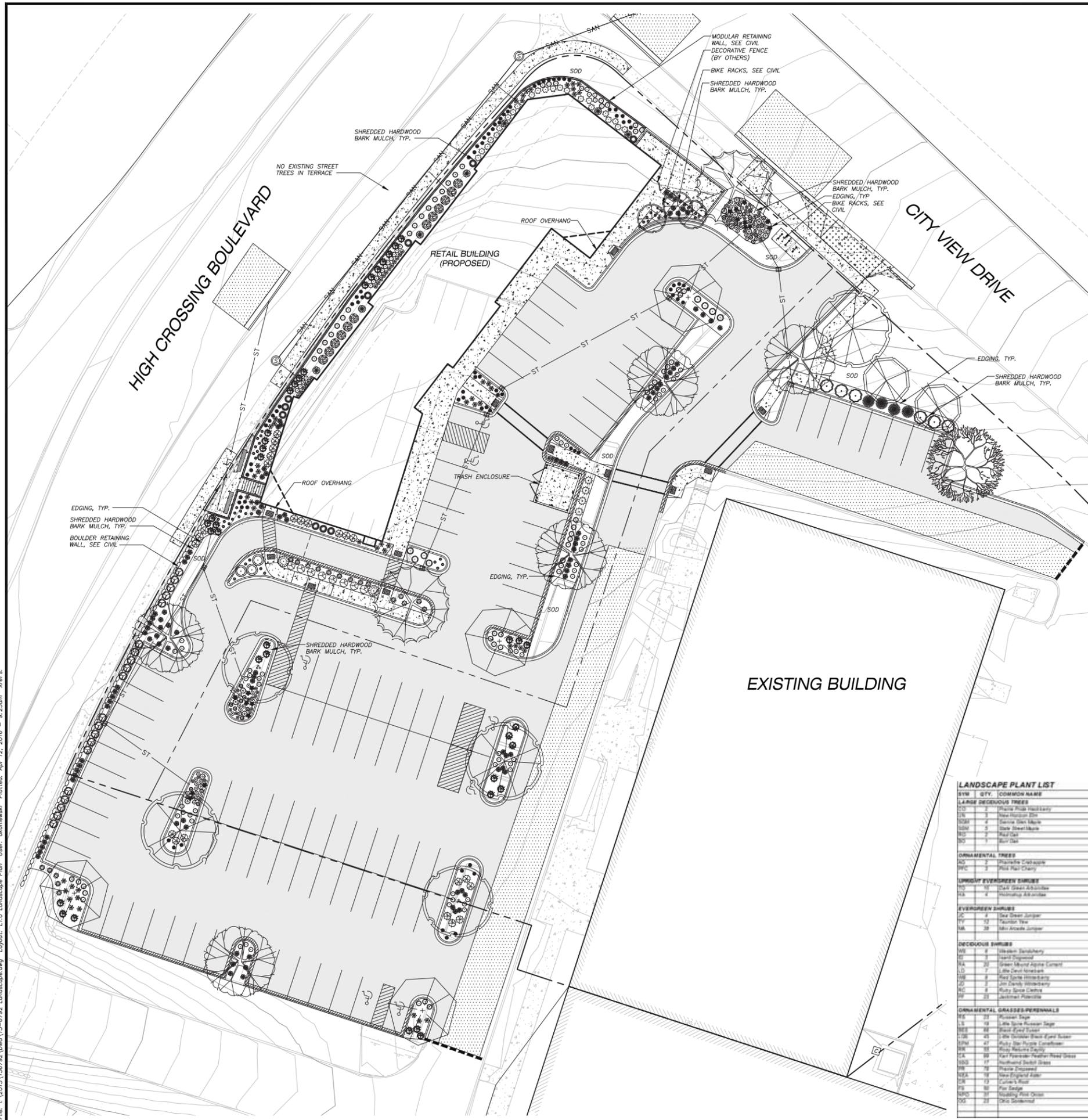
SHEET TITLE:  
**LANDSCAPE DETAILS, NOTES AND SPECIFICATIONS**

SHEET NUMBER:  
**L2.0**

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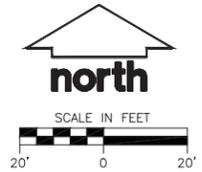
File: I:\2015\156792\DWG\L2.0 Landscape Details User: abkiewski PlotDate: Apr 12, 2016 9:25am Xref's:

File: L:\2015\156792\DWG\15-6792\_Landscape.dwg Layout: L1.0 Landscape Plan User: dmurawski Plotted: Apr 12, 2015 - 9:25am Xref's:



**LEGEND (PROPOSED)**

- PROPERTY LINE
- - - EASEMENT LINE
- FUTURE BUILDING ADDITION
- EDGE OF PAVEMENT
- SAWCUT
- ST STORM SEWER
- SAN SANITARY SEWER
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- NEW ASPHALT SURFACE AT MILLED AREA
- 18" STANDARD CURB AND GUTTER
- 18" REJECT CURB AND GUTTER
- BOULDER RETAINING WALL
- MODULAR BLOCK RETAINING WALL



**GENERAL NOTES**

1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGEND.
2. ALL WORK IN THE ROW SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
4. DRAWING FOR REVIEW - NOT FOR CONSTRUCTION UNLESS OTHERWISE NOTED IN THE TITLE BLOCK.
5. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL FINE GRADING AND TOPSOILING WITH GENERAL CONTRACTOR
6. REFER TO SHEET L2.0 FOR ADDITIONAL DETAILS, NOTES AND SPECIFICATION INFORMATION INCLUDING MATERIALS, GUARANTEE AND EXECUTION RELATED TO LANDSCAPE PLAN
7. ALL PATIOS ON PLAN TO BE INSTALLED BY OTHERS
8. ALL RETAINING WALL EXTENSIONS FOR PROPOSED PATIOS TO BE INSTALLED BY OTHERS

**LEGEND (PROPOSED)**

**LARGE DECIDUOUS TREES**

- Prairie Pride Hackberry
- New Horizon Elm
- Sienna Glen Maple
- State Street Maple
- Red Oak
- Burr Oak

**ORNAMENTAL TREES**

- Prairiefire Crabapple
- Pink Flair Cherry

**UPRIGHT EVERGREEN SHRUB**

- Dark Green Arborvitae
- Holmstrup Arborvitae

**EVERGREEN SHRUBS**

- Sea Green Juniper
- Taunton Yew
- Mini Arcade Juniper

**DECIDUOUS SHRUBS**

- Western Sandcherry
- Isanti Dogwood
- Green Mound Alpine Currant
- Little Devil Ninebark
- Red Sprite Winterberry
- Ruby Spice Clethra
- Jim Dandy Winterberry
- Jackman Potentilla

**ORNAMENTAL GRASSES/PERENNIALS**

- Russian Sage
- Little Spire Russian Sage
- Black-Eyed Susan
- Little Goldstar Black-Eyed Susan
- Ruby Star Coneflower Purple Coneflower
- Rosy Returns Daylily
- Karl Foerster Feather Reed Grass
- Northwind Switch Grass
- Prairie Dropseed
- New England Aster
- Culver's Root
- Fox Sedge
- Nodding Pink Onion
- Ohio Goldenrod

**LANDSCAPE PLANT LIST**

SYM	QTY	COMMON NAME	SCIENTIFIC NAME	SIZE	ROOT	POINTS	TOTAL POINTS
<b>LARGE DECIDUOUS TREES</b>							
TD	1	Prairie Pride Hackberry	CECROPS racemosa 'Prairie Pride'	2.10' Cal	Ball	25	25
NE	1	Sienna Glen Maple	ACER spicatum 'Sienna Glen'	2.10' Cal	Ball	25	25
SM	1	State Street Maple	ACER spicatum 'State Street'	2.10' Cal	Ball	25	25
RD	1	Red Oak	QUERCUS rubra	2.10' Cal	Ball	25	25
BO	1	Burr Oak	QUERCUS macrocarpa	2.10' Cal	Ball	25	25
<b>ORNAMENTAL TREES</b>							
PT	1	Prairiefire Crabapple	MALUS ioensis	1.10' Cal	Ball	15	15
PK	1	Pink Flair Cherry	PUNICUS virginiana 'PINK FLAIR'	1.10' Cal	Ball	15	15
<b>UPRIGHT EVERGREEN SHRUBS</b>							
AG	1	Dark Green Arborvitae	THUJA occidentalis 'Smaragd'	3.2' Hx 16"	Ball	10	100
HO	1	Holmstrup Arborvitae	THUJA occidentalis 'Holmstrup'	3.2' Hx 16"	Ball	10	10
<b>EVERGREEN SHRUBS</b>							
SG	1	Sea Green Juniper	SPENGERIA juncea 'Sea Green'	10.24' Hx 16"	# 3 Cal	4	4
TY	1	Taunton Yew	TAXUS canadensis 'Taunton'	10.24' Hx 16"	# 3 Cal	4	4
MA	1	Mini Arcade Juniper	SPENGERIA juncea 'Mini Arcade'	10.24' Hx 16"	# 3 Cal	4	16
<b>DECIDUOUS SHRUBS</b>							
WS	1	Western Sandcherry	POTANILLA racemosa	10.24' Hx 16"	# 3 Cal	4	4
IS	1	Isanti Dogwood	PONCICUS racemosa 'Isanti'	10.24' Hx 16"	# 3 Cal	4	4
GM	1	Green Mound Alpine Currant	FRAXINUS pennsylvanica 'Green Mound'	10.24' Hx 16"	# 3 Cal	4	4
LD	1	Little Devil Ninebark	OPULIS sphegodes 'Little Devil'	10.24' Hx 16"	# 3 Cal	4	4
RS	1	Rosy Returns Daylily	HELIOPSIS scabra 'Rosy Returns'	10.24' Hx 16"	# 3 Cal	4	4
KA	1	Karl Foerster Feather Reed Grass	PHALARIS communis 'Karl Foerster'	10.24' Hx 16"	# 3 Cal	4	4
NS	1	Northwind Switch Grass	PHALARIS communis 'Northwind'	10.24' Hx 16"	# 3 Cal	4	4
PR	1	Prairie Dropseed	SPENGERIA juncea 'Prairie Dropseed'	10.24' Hx 16"	# 3 Cal	4	4
NEA	1	New England Aster	ASTER novae-angliae	10.24' Hx 16"	# 3 Cal	4	4
CU	1	Culver's Root	LEUCOPHYLLIS racemosa	10.24' Hx 16"	# 3 Cal	4	4
FX	1	Fox Sedge	PHALARIS communis 'Fox Sedge'	10.24' Hx 16"	# 3 Cal	4	4
NO	1	Nodding Pink Onion	ALLIUM nodosum	10.24' Hx 16"	# 3 Cal	4	4
OH	1	Ohio Goldenrod	ROGALIS inodora	10.24' Hx 16"	# 3 Cal	4	4
<b>ORNAMENTAL GRASSES/PERENNIALS</b>							
RS	1	Russian Sage	PEROVSKIA atriplicata	10.24' Hx 16"	# 3 Cal	4	4
LS	1	Little Spire Russian Sage	PEROVSKIA atriplicata 'Little Spire'	10.24' Hx 16"	# 3 Cal	4	4
BE	1	Black-Eyed Susan	RUSSULA setacea	10.24' Hx 16"	# 3 Cal	4	4
LG	1	Little Goldstar Black-Eyed Susan	RUSSULA setacea 'Little Goldstar'	10.24' Hx 16"	# 3 Cal	4	4
RS	1	Ruby Star Coneflower Purple Coneflower	CONIFLORUM sp. 'Ruby Star'	10.24' Hx 16"	# 3 Cal	4	4
RD	1	Rosy Returns Daylily	HELIOPSIS scabra 'Rosy Returns'	10.24' Hx 16"	# 3 Cal	4	4
KA	1	Karl Foerster Feather Reed Grass	PHALARIS communis 'Karl Foerster'	10.24' Hx 16"	# 3 Cal	4	4
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OH	1	Ohio Goldenrod	ROGALIS inodora	10.24' Hx 16"	# 3 Cal	4	4
							<b>TOTAL</b>

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SERVICES PROVIDED TO:  
**WALSH PROPERTIES, LLC.**

P.O. BOX 1497  
 MADISON, WI 53701

PROJECT:  
**5235 HIGH CROSSING BLVD**

PROJECT LOCATION:  
 CITY OF MADISON  
 DANE COUNTY, WI

JSD PROJECT NO.: 15-6792

SEAL/SIGNATURE:

ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

DESIGN: KJY, ABK 06/23/2015  
 DRAWN: KJY, ABK 06/23/2015  
 APPROVED: JLF 06/23/2015

PLAN MODIFICATIONS:	DATE:
UDC INITIAL - FINAL	05/27/2015
UDC INITIAL - FINAL RESUBMITTAL	06/24/2015
UDC FINAL RESUBMITTAL	08/26/2015
SITE PLAN VERIFICATION	09/22/2015
SITE PLAN VERIFICATION RESUBMITTAL	03/31/2016
SITE PLAN VERIFICATION RESUBMITTAL	04/13/2016

**DIGGERS HOTLINE**

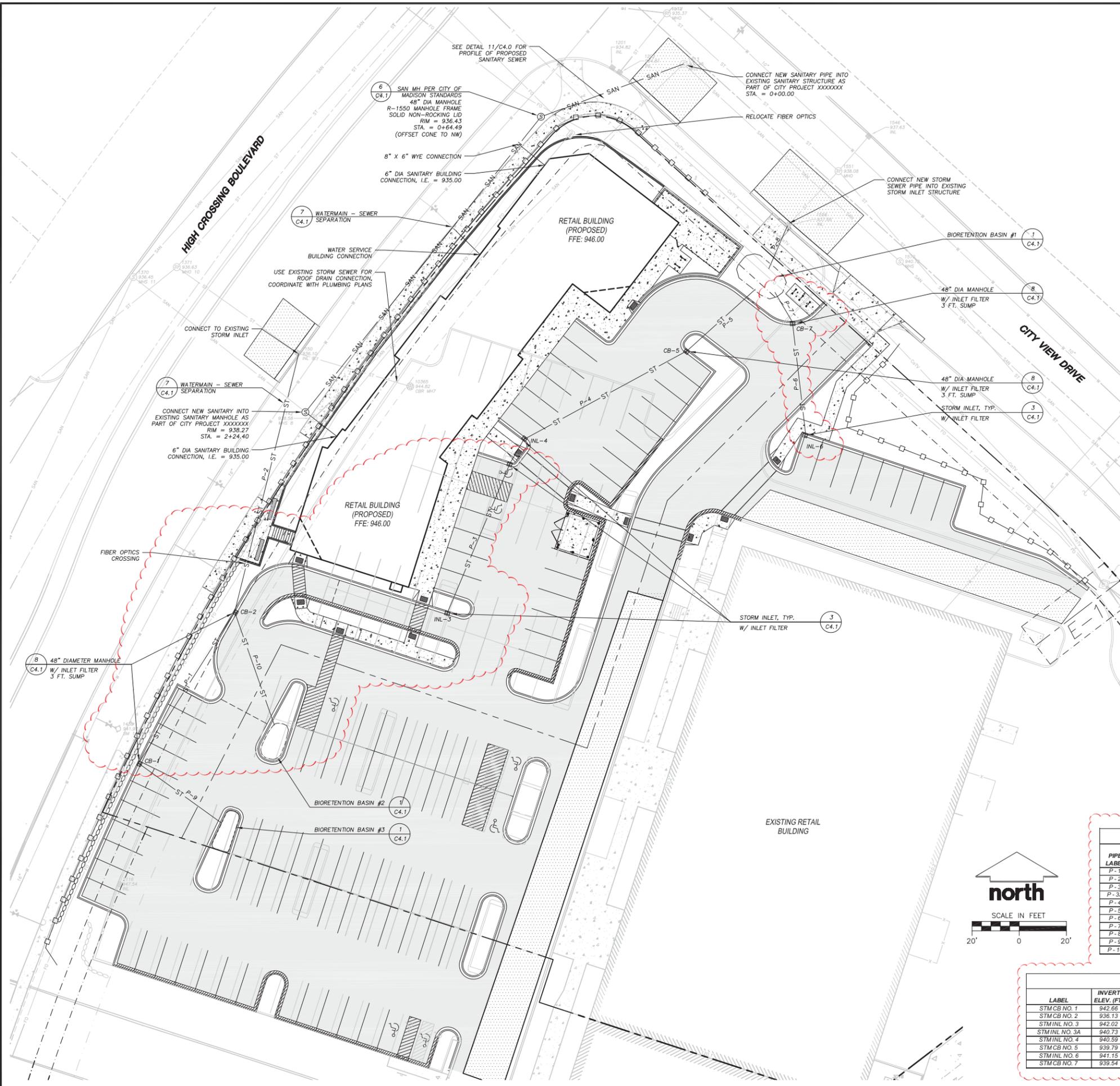
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SHEET TITLE:  
**LANDSCAPE PLAN**

SHEET NUMBER:  
**L1.0**

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**LEGEND (PROPOSED)**

---	PROPERTY LINE
---	LOT LINE
---	BUILDING FIRST FLOOR
---	EDGE OF PAVEMENT
---	ST
---	SAN
---	WATER SERVICE
---	ST
---	STORM SEWER (BY OTHERS)
---	ASPHALT PAVEMENT
---	CONCRETE PAVEMENT
---	18" STANDARD CURB AND GUTTER
---	18" REJECT CURB & GUTTER
---	STONE RETAINING WALL
---	MODULAR BLOCK RETAINING WALL
---	BIORETENTION POND

- GENERAL NOTES**
- REFER TO THE EXISTING CONDITIONS SURVEY, CONDUCTED ON APRIL 27TH & 28TH 2015, BY JSD FOR EXISTING CONDITIONS NOTES AND LEGEND.
  - ALL WORK IN THE ROW SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION AND CITY OF MADISON REQUIREMENTS.
  - NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES UNLESS OTHERWISE SHOWN.
  - THIS PROJECT HAS BEEN DESIGNED AND WILL BE CONSTRUCTED IN COMPLIANCE WITH ALL OF THE WDR WRAPP PERMIT APPLICATION STANDARDS.

- UTILITY NOTES**
- ALL WORK IN THE RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF MADISON STANDARD CONSTRUCTION SPECIFICATIONS (STANDARD SPECIFICATIONS).
  - DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
  - 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.
  - LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
  - ALL CONSTRUCTION SIGNING TO BE IN ACCORDANCE WITH THE CITY OF MADISON AND WISCONSIN DEPARTMENT OF TRANSPORTATION REQUIREMENTS.
  - PROVIDE DE-WATERING ACTIVITIES AND PERMITS AS NECESSARY PER WDR REQUIREMENTS AND WDR TECHNICAL STANDARD 1061.
  - ALL PRIVATE WATER MAIN AND WATER SERVICES SHALL BE INSTALLED WITH A 6" MINIMUM BURY.
  - THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED.
  - THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING PLANS DESIGNED TO MEET ORDINANCES AND REQUIREMENTS OF THE MUNICIPALITY AND WISDOT, WSPS, AND WDR.
  - PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
    - EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
    - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
    - VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
    - NOTIFYING ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
    - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
  - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED. IF CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
  - THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
  - 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.
  - CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
  - OPEN PICK HOLES IN SANITARY MANHOLE CASTING LIDS ARE PROHIBITED.
  - ALL PRIVATE SANITARY BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-2.
  - ALL PRIVATE STORM BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-3.
  - ALL PRIVATE PIPE AND TUBING FOR WATER SERVICE SHALL CONFORM TO SPS 384.30-4.
  - ALL PRIVATE PIPE SHALL BE INSTALLED PER SPS 382.40-8 INCLUDING AT LEAST 8" OF HORIZONTAL DISTANCE BETWEEN WATER PIPING AND SANITARY SEWER FROM CENTER OF PIPE TO CENTER OF PIPE AND 6" OF SEPARATION BETWEEN STORM SEWER AND WATER PIPING.
  - THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND EROSION DURING CONSTRUCTION AT HIS EXPENSE. STREETS SHALL BE WATERED TO CONTROL DUST WHEN ORDERED BY THE ENGINEER.
  - THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO BE IN CONFORMANCE WITH THE CITY EROSION CONTROL AND STORMWATER ORDINANCE, AND DNR ADMINISTRATIVE RULE NR 216 AT ALL TIMES.

**PROPOSED STORM SEWER PIPE SCHEDULE**

PIPE LABEL	FROM	TO	LENGTH (FT)	INVERT ELEVATION (FT)	DISCHARGE ELEVATION (FT)	SLOPE (%)	PIPE SIZE & TYPE
P-1	STM CB NO. 1	STM CB NO. 2	73.90	942.66	940.00	3.50%	8" PVC
P-2	STM CB NO. 2	EXIST INL	112.56	936.13	930.50	5.00%	10" PVC
P-3	STM INL NO. 3	STM INL NO. 3A	63.30	942.02	940.75	2.00%	8" HDPE
P-3A	STM INL NO. 3A	STM INL NO. 4	11.00	940.73	940.62	1.00%	8" HDPE
P-4	STM INL NO. 4	STM CB NO. 5	78.82	940.59	939.80	1.00%	8" HDPE
P-5	STM CB NO. 5	BIORETENTION	38.90	939.79	939.50	0.75%	10" HDPE
P-6	STM INL NO. 6	STM CB NO. 7	46.80	941.15	939.75	3.00%	8" HDPE
P-7	STM CB NO. 7	BIORETENTION	15.00	939.84	939.50	0.25%	8" PVC
P-8	BIORETENTION	EXIST INL	19.80	934.99	934.00	5.00%	8" PVC
P-9	BIORETENTION	STM CB NO. 1	42.50	944.94	943.98	2.25%	6" PVC
P-10	BIORETENTION	STM CB NO. 2	50.71	944.44	942.41	4.00%	6" PVC

**PROPOSED STORM SEWER STRUCTURES SCHEDULE**

LABEL	INVERT ELEV. (FT)	RIM ELEV. (FT)	DEPTH (FT)	STRUCTURE DESCRIPTION	GRATE
STM CB NO. 1	942.66	946.44	3.78	48" DIA MANHOLE W/3' SUMP	R-3067, INLET FRAME, TYPE R GRATE
STM CB NO. 2	936.13	946.19	10.06	48" DIA MANHOLE W/3' SUMP	R-3067, INLET FRAME, TYPE R GRATE
STM INL NO. 3	942.02	946.47	4.45	2'X3' BOX	R-3067, INLET FRAME, TYPE R GRATE
STM INL NO. 3A	940.73	944.82	4.09	2'X3' BOX	R-3067, INLET FRAME, TYPE R GRATE
STM INL NO. 4	940.59	944.60	4.01	2'X3' BOX	R-3067, INLET FRAME, TYPE R GRATE
STM CB NO. 5	939.79	943.46	3.67	48" DIA MANHOLE W/3' SUMP	R-3067, INLET FRAME, TYPE R GRATE
STM INL NO. 6	941.15	945.06	3.91	2'X3' BOX	R-3067, INLET FRAME, TYPE R GRATE
STM CB NO. 7	939.84	941.93	2.39	48" DIA MANHOLE W/3' SUMP	R-3067, INLET FRAME, TYPE R GRATE

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REVISIONS PER COM - ENG	11/02/2015
REVISIONS PER COM COMMENTS	11/20/2015
REVISIONS PER COM - ENG	12/03/2015
LAND USE RESUBMITTAL	04/13/2016

**DIGGERS HOTLINE**

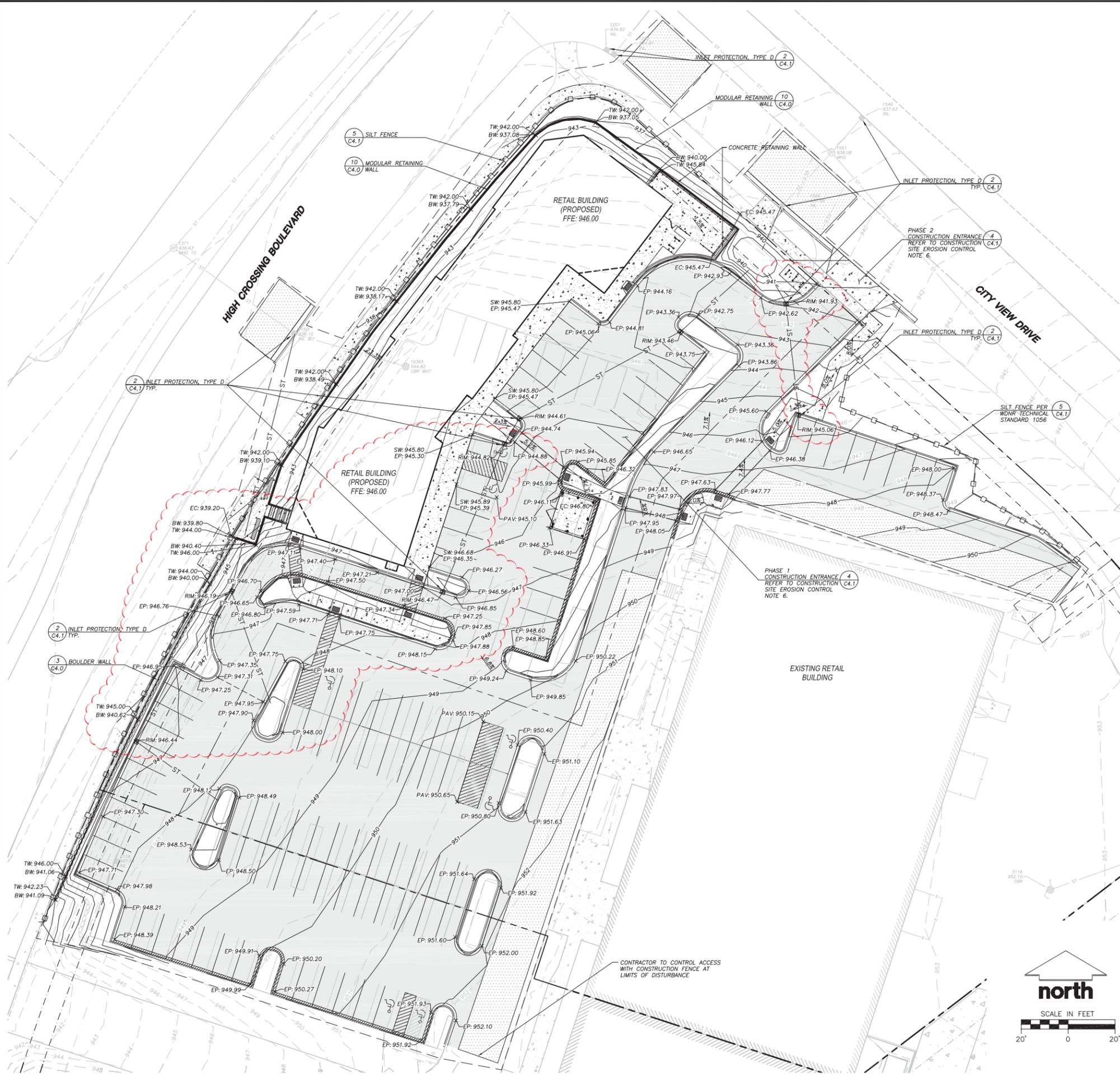
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SHEET TITLE:  
**UTILITY PLAN**

SHEET NUMBER:  
**C3.0**

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**LEGEND (PROPOSED)**

- PROPERTY LINE
- LOT LINE
- PROPOSED BUILDING OUTLINE
- LIMITS OF DISTURBANCE
- 944 PROPOSED 1 FOOT CONTOUR
- 945 PROPOSED 5 FOOT CONTOUR
- PAVEMENT BREAKLINE
- EDGE OF PAVEMENT
- SILT FENCE
- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- 18" STANDARD CURB AND GUTTER
- 18" REJECT CURB & GUTTER
- STONE RETAINING WALL
- MODULAR BLOCK RETAINING WALL
- SPOT ELEVATION
- EP: 946.81
- BW = BOTTOM OF WALL
- EP = EDGE OF PAVEMENT
- EC = EDGE OF CONCRETE
- PAV = PAVEMENT SURFACE
- RIM = RIM ELEVATION
- SW = TOP OF SIDEWALK
- TW = TOP OF WALL

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**CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS**

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE CURRENT DEPARTMENT OF NATURAL RESOURCES EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS WHICH ARE AVAILABLE AT: <http://www.dnr.state.wi.us/runoff/stormwater/techstds.htm>
2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIALS AS SHOWN ON PLAN. MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS IF MODIFICATIONS CONFORM TO WDNR TECHNICAL STANDARDS.
3. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
4. INSPECT EROSION CONTROL MEASURES AFTER EACH 1/2" OR GREATER RAINFALL. REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION.
5. EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER.
6. INSTALL A TRACKING PAD, 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. TRACKING PADS ARE TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED BY THE MUNICIPALITY.
7. 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.
8. INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES AND IN FRONT OF SILT FENCING IN ANY LOW AREA ALL IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS.
9. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):
  - A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
  - B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
  - C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.
10. INSTALL TYPE D INLET PROTECTION AROUND ALL STORM SEWER INLETS AND CATCH BASINS THAT MAY RECEIVE RUNOFF FROM AREAS UNDER CONSTRUCTION.
11. APPLY ANIONIC POLYMER TO DISTURBED AREAS IF EROSION BECOMES PROBLEMATIC.
12. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, AND/OR ENGINEER SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
13. ALL SLOPES EXCEEDING 5:1 (20%) AND DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING OR APPLICATION OF A WDOT APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED. CONTRACTOR SHALL PROVIDE PRODUCT SPECIFICATIONS TO PROJECT ENGINEER FOR APPROVAL. SLOPES 3:1 (33%) SHALL BE STABILIZED AS SOON AS PRACTICABLE FOLLOWING GRADING ACTIVITIES ARE COMPLETE.
14. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON VEGETATIVE STABILIZATION AND/OR PROPERTY SALE IN ACCORDANCE WITH WISCONSIN SAFETY AND PROFESSIONAL SERVICES REQUIREMENTS.
15. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068.
16. CONTRACTOR TO PROVIDE SOLID LID OR METAL PLATE ON ALL OPEN MANHOLES DURING CONSTRUCTION TO MINIMIZE SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM.
17. ALL APRON ENDWALLS SHALL BE PROVIDED WITH RIP RAP PER DETAILS.
18. PHASE 1 - BUILDING CONSTRUCTION  
PHASE 2 - PARKING LOT IMPROVEMENTS

**GRADING AND SEEDING NOTES**

1. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
2. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES WITH SILT FENCING FOR EROSION CONTROL UNTIL CONSTRUCTION IS COMPLETED AND NOTICE OF TERMINATION FILED.
4. CONTRACTOR SHALL CHISEL-PLow OR DEEP TILL WITH DOUBLE TINES ALL STORMWATER MANAGEMENT FACILITIES JUST PRIOR TO SEEDING AND MULCHING TO PROMOTE INFILTRATION.
5. CONTRACTOR SHALL WATER ALL NEWLY SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
6. CONTRACTOR TO DEEP TILL ALL COMPACTED PVIOUS SURFACES PRIOR TO SEEDING AND MULCHING.
7. THE CONTRACTOR SHALL NOTIFY THE CITY OF MADISON TWO (2) WORKING DAYS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY.
8. IF GRADING ACTIVITIES STOP ON ANY PORTION OF LAND FOR 14 OR MORE CALENDAR DAYS, THE AREA IN QUESTION MUST BE TEMPORARILY STABILIZED.
9. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARILY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE. ALL SLOPES 33% OR GREATER SHALL BE TEMPORARILY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM AS SOON AS PRACTICABLE.
10. WATER FLOWING DIRECTLY INTO BIORETENTION BASINS OR RAIN GARDENS SHALL BE TEMPORARILY DIVERTED FOR 60 DAYS TO ALLOW FOR PLANTING GROWTH.

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**DIGGERS HOTLINE**

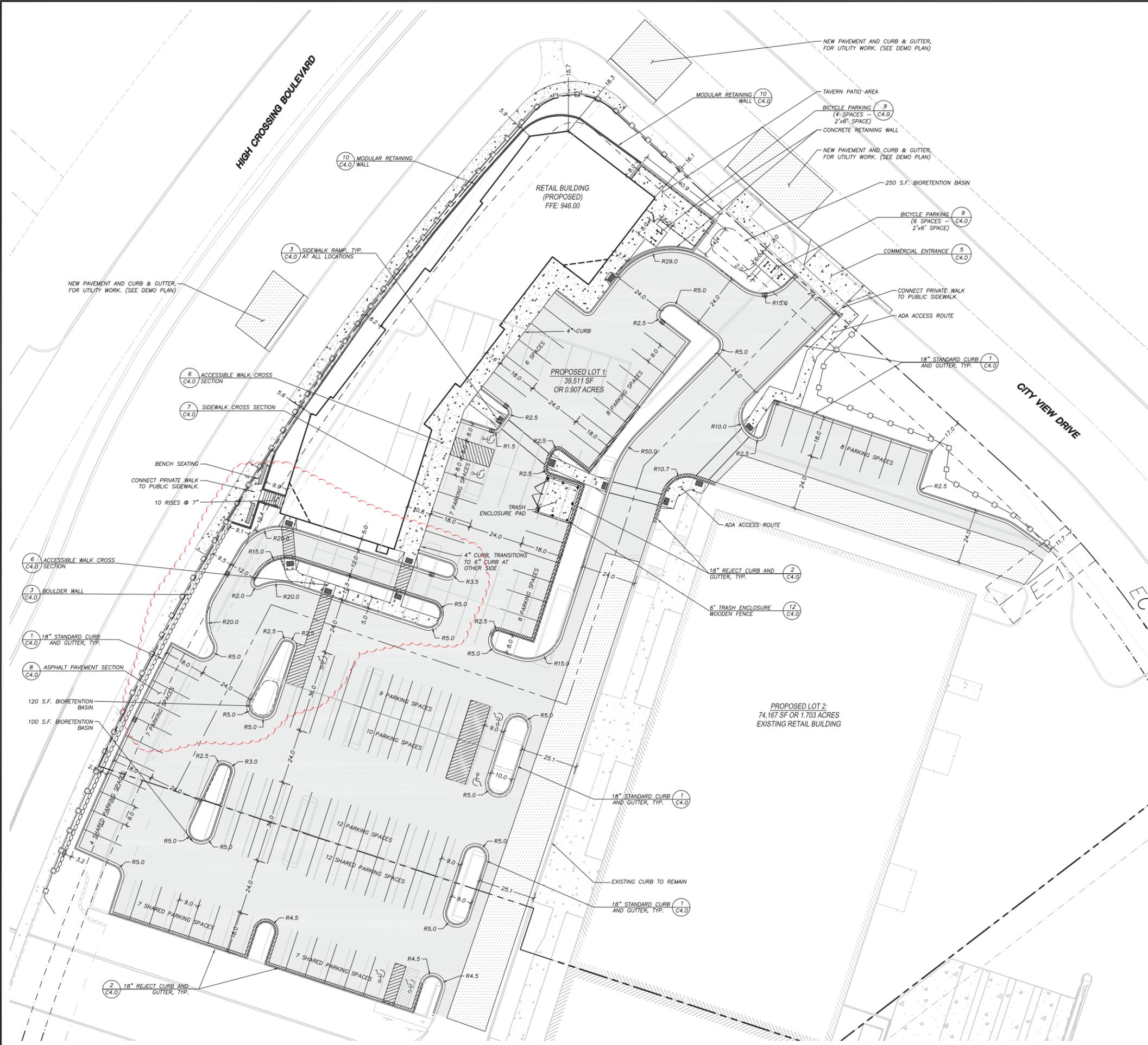
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SHEET TITLE:  
**GRADING AND EROSION CONTROL PLAN**

SHEET NUMBER:  
**C2.0**

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**LEGEND (PROPOSED)**

- PROPERTY LINE
- LOT LINE
- EASEMENT LINE
- PROPOSED BUILDING OUTLINE
- EDGE OF PAVEMENT
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- NEW ASPHALT SURFACE AT MILLED AREA
- 18" STANDARD CURB AND GUTTER
- 18" REJECT CURB AND GUTTER
- STONE RETAINING WALL
- MODULAR BLOCK RETAINING WALL

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**SITE PLAN NOTES**

1. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. ALL RADI TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL PRIVATE CURB AND GUTTER SHALL BE 18" STANDARD CURB AND GUTTER, ANY REQUIRED REPLACEMENT OF PUBLIC CURB AND GUTTER SHALL MATCH EXISTING AND MEET THE REQUIREMENTS OF THE CITY OF MADISON.
4. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER.
5. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER.
6. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
7. ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.
8. USE 4" WIDE, HIGH VISIBILITY YELLOW LATEX PAINT FOR STALL LINES.
9. MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
10. 2' x 4' TRUNCATED DOME SECTIONS SHALL BE PLACED AT ALL ADA RAMPS.
11. BIKE RACKS SHALL BE LOCATED ON A 4" THICK CONCRETE PAD OVER 4" OF AGGREGATE BASE. EACH BIKE PARKING STALL SHALL BE AT LEAST 2'x6' BIKE RACK SHALL BE APPROVED BY OWNER AND INSTALLED INTEGRAL TO THE CONCRETE PAD.
12. DETAILS OF WALK LAYOUT WILL BE PROVIDED IN ELECTRONIC FORMAT FOR LAYOUT.
13. SEE LANDSCAPE PLANS FOR HARDSCAPE AND LANDSCAPE OF SPECIAL GARDEN AREAS AS NOTED.
14. PROJECT SUBJECT TO A CROSS ACCESS AGREEMENT TO BE RECORDED.

**SITE INFORMATION BLOCK**

Site Location	Madison, WI
Existing Site Acreage (Total)	2.61 ACRES
Disturbed Area	74,220 S.F.
Existing Site Zoning:	CC
Proposed use of property: (Proposed Lot 1 & Lot 2)	COMMERCIAL - COMMERCIAL CENTER (CC)
<b>Building Information:</b>	
Number of stories (above grade)	1
Building height	16'
Total square footage of building	9,745 S.F.
Number of surface parking stalls (Lot 1 & 2 Combined):	
Large car	91
Accessible (Included in Large car count)	7
Number of shared parking stalls: (per agreement with adjacent lot to south)	
Large car	30
Accessible (Included in Large car count)	2
Number of bicycle stalls shown:	10
Existing Impervious Surface Area (LOT 1)	22,268 S.F.
Existing Pervious Surface Area (LOT 1)	17,243 S.F.
Existing Impervious Surface Area Ratio (LOT 1)	0.564
Proposed Impervious Surface Area (LOT 1)	33,088 S.F.
Proposed Pervious Surface Area (LOT 1)	6,423 S.F.
Proposed Impervious Surface Area Ratio (LOT 1)	0.837
Usable Open Space (LOT 1)	6,423 S.F.
Existing Impervious Surface Area (LOT 2)	61,443 S.F.
Existing Pervious Surface Area (LOT 2)	12,724 S.F.
Existing Impervious Surface Area Ratio (LOT 2)	0.828
Proposed Impervious Surface Area (LOT 2)	63,372 S.F.
Proposed Pervious Surface Area (LOT 2)	10,795 S.F.
Proposed Impervious Surface Area Ratio (LOT 2)	0.850
Usable Open Space (LOT 2)	10,795 S.F.

"BUILDING RELATIONSHIPS WITH A COMMITMENT TO CLIENT'S SATISFACTION THROUGH TRUST, QUALITY AND EXPERIENCE"

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MADISON REGIONAL OFFICE  
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KENOSHA | APPLETON  
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SERVICES PROVIDED TO:  
**WALSH PROPERTIES, LLC.**

P.O. BOX 1497  
MADISON, WI 53701

PROJECT:  
**5251 HIGH CROSSING BLVD**

PROJECT LOCATION:  
CITY OF MADISON  
DANE COUNTY, WI

JSD PROJECT NO.: 15-6792

SEAL/SIGNATURE:

ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

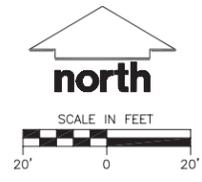
DESIGN:	PGB	06/22/2015
DRAWN:	PGB	06/22/2015
APPROVED:	BHD	06/23/2015

PLAN MODIFICATIONS:	DATE:
UDC FINAL SUBMITTAL	08/26/2015
SITE PLAN VERIFICATION	09/25/2015
REVISIONS PER COM ENG	12/03/2015
REVISIONS PER BLDG INSPECTION	12/10/2015
ISSUED FOR CONSTRUCTION	12/21/2015
SITE PLAN VERIFICATION RESUBMITTAL	03/31/2016
LAND USE RESUBMITTAL	04/13/2016

**DIGGERS HOTLINE**  
Toll Free (800) 242-8511  
Milwaukee Area (414) 253-1181  
Hearing Impaired TDD (800) 542-2289  
[www.DiggersHotline.com](http://www.DiggersHotline.com)

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**C1.0**



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# CONTEXT PHOTOS



**LEGEND**

- ①
- Marcus Eastgate Cinema
  - Uno Chicago Grill
  - Russ Darrow: Chrysler Dodge Jeep Ram
  - Russ Darrow: Mazda of Madison
  - Jon Lancaster Toyota
  - Zimbrick Nissan
  - Don Miller Subaru East
  - Zimbrick Buick GMC Eastside
  - Heartland Credit Union
  - GrandStay Residential Suites Hotel
  - Staybridge Suites Madison- East
  - Fairfield Inn & Suites Madison East
  - Courtyard Madison East
  - University of Phoenix – Madison Campus
  - Pooley's Sports Bar and Event Center
  - Zimbrick Hyundai East
  - Metro Ford of Madison

**Regional Land Use Overview**

**High Crossing  
Neighborhood**

