

# PDQ FOOD STORES



3520 EAST WASHINGTON AVE  
MADISON, WI 53704



CEDAR RAPIDS • DES MOINES • MADISON

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Contractor  
**SUPREME STRUCTURES**  
2906 Marketplace Drive, Suite A  
Madison, WI 53719

Project  
**PDQ FOOD STORES**  
3520 E WASHINGTON AVE  
MADISON, WI 53704



## PROJECT NARRATIVE / LETTER OF INTENT

PDQ Food Stores is proposing a new auto service station, detached car wash, and convenience store at 3520 and 3546 East Washington Blvd in Madison, Wisconsin. The parcel's zoning is a Commercial Corridor - Transitional District (CC-T), and borders a Traditional Residential - Varied District 1 (TR-V1). The proposed parcel would remain a CC-T, but will be divided to include a new lot at the northwest end of the property measuring 80' deep and 256' wide and zoned for residential development under TR-C3. The project will consist of demolishing the existing structure on site, and constructing a new auto service station with a 4,000 square foot pump canopy and 1,355 square foot pedestrian canopy, a 2,200 square foot detached car wash, and a 6,120 square foot convenience store. The project is estimated to be substantially complete by January 2016. The hours of operation are 24 hours per day, 7 days per week. See site plan for proposed parking, bike parking and open space calculations. The land is currently valued at \$1.1M. The estimated project cost is \$2.5M. This project is estimated to create 10 full time jobs. There are no public subsidies requested by this project.

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## PROJECT TEAM

### OWNER

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marnold@pdqstores.com  
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PO Box 620997  
Middleton, WI 53562

### CIVIL CONTRACTOR

Homburg Contractors  
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SBurmeister@HomburgInc.com  
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Madison, WI 53718

### LANDSCAPE ARCHITECT

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### CONTRACTOR

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### ELECTRICAL ENGINEER

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### SITE SIGNAGE

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### ARCHITECT

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### SURVEYOR

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Madison, WI 53703

## PROJECT LOCATION

NOT TO SCALE



## PROPOSED SITE STUDY

NOT TO SCALE

### Issue & Revision Dates

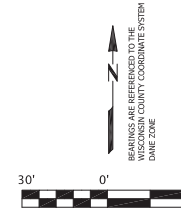
CITY OF MADISON STAFF REVIEW	04.06.2015
CITY OF MADISON DAT PRESENTATION	04.23.2015
NEIGHBORHOOD REVIEW	05.18.2015
UDC INFORMATIONAL PRESENTATION	05.20.2015
UDC SUBMITTAL	05.27.2015
UDC REVISION	06.17.2015
UDC RESUBMITTAL	08.26.2015

Drawing

OPN Project No. 15603000

# ALTA/ACSM Land Title Survey: Prime Quarter Madison

LOCATED IN:  
Lots Five (5), through Twenty-two (22), Block One (1), Clyde  
A. Gallagher Subdivision, in the City of Madison, Dane County, Wisconsin



**LEGEND**  
 ● SOLID IRON ROD FOUND (0.75" Dia, unless noted)  
 ○ IRON PIPE FOUND (1" Dia, unless Noted)  
 ○ 3/4"x18" SOLID IRON ROD SET  
 1.50lbs./LINEAL FOOT.  
 ( ) INDICATES RECORDED AS  
 DISTANCES ARE MEASURED TO THE  
 NEAREST HUNDREDTH OF A FOOT.

Electric Transformer  
 Light Pole  
 Utility Pole  
 Valve: Gas or Water  
  
 Underground AT&T Communications  
 Underground Electric  
 Sanitary Sewer  
 Gas  
 Overhead Wires  
 Water (Shown as Approximate in places)  
 Storm Water Pipe

This Survey Contains  
80,389 S.F.  
1.84 Acres

**PARCEL A:**

Lots Five (5), Six (6), Seven (7), Eight (8), Nine (9), Ten (10), Fifteen (15), Sixteen (16), Seventeen (17), Eighteen (18), Nineteen (19), Twenty (20), Twenty-one (21) and Twenty-two (22), Block One (1), Clyde A. Gallagher Subdivision, in the City of Madison, Dane County, Wisconsin, EXCEPT The South 16 1/2 feet thereof.

**PARCEL B:**

Lots Eleven (11), Twelve (12), Thirteen (13) and Fourteen (14), Block One (1), Clyde A. Gallagher's Subdivision, in the City of Madison, Dane County, Wisconsin, EXCEPT The South 16 1/2 feet therefrom of Lots Eleven (11), Twelve (12) and Thirteen (13).

Schedule B-Exceptions (as detailed in First American Title Insurance Commitment No. NCS-705057-MAD, dated December 5, 2014, at 7:30 a.m.

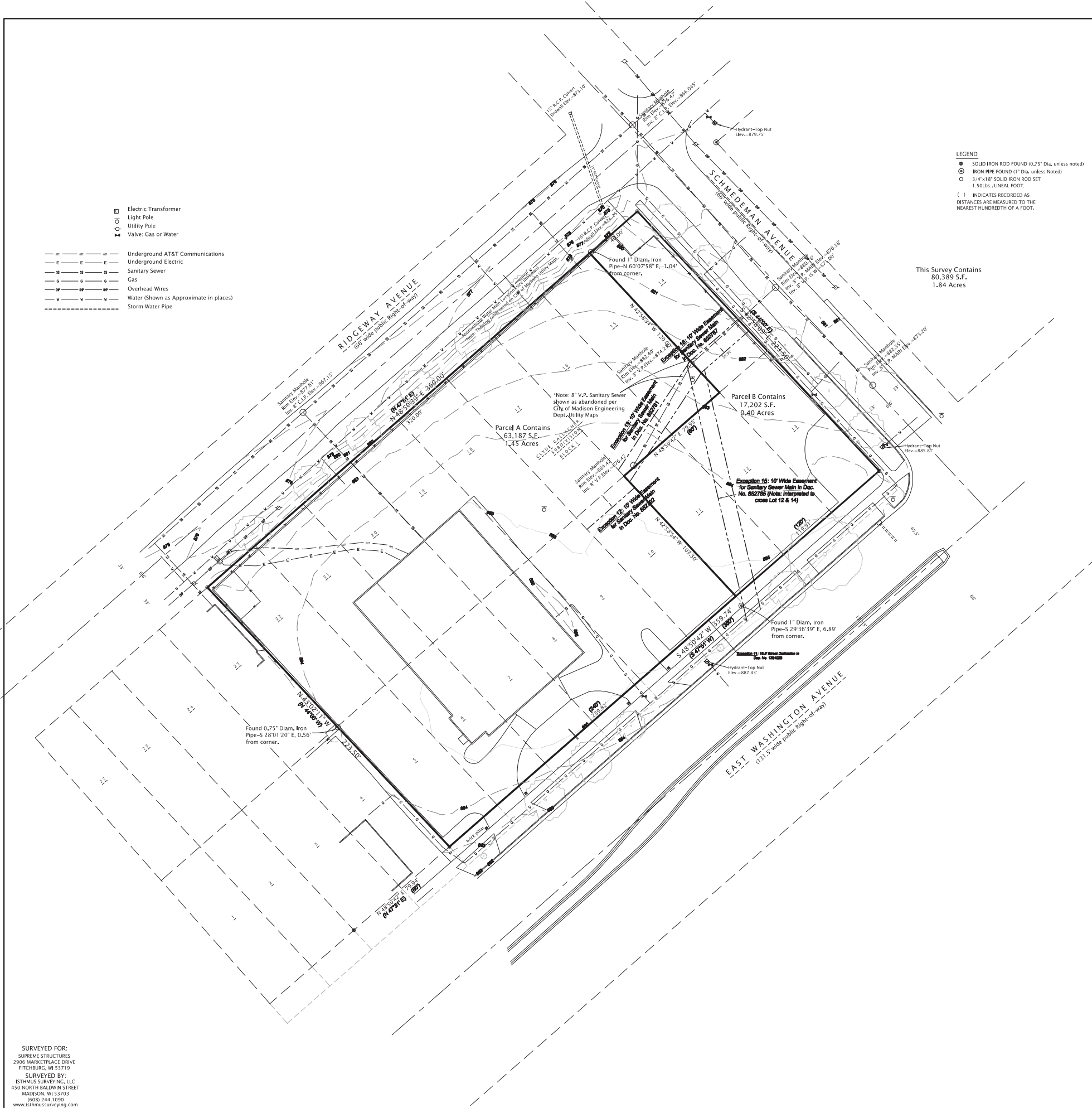
11. Resolution recorded February 12, 1969, in Volume 86 of Records, Page 238, as Document No. 1234039, APPLIES AND AFFECTS, SHOWN HEREON.

The Following Exceptions Affect Parcel A:

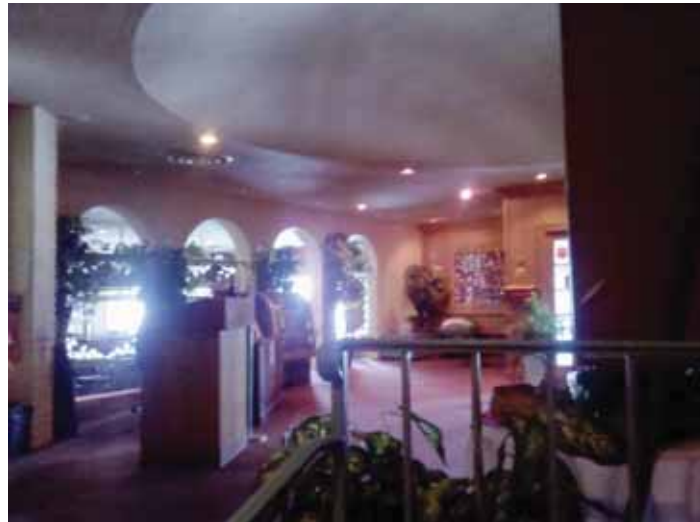
- 12. Easement to the Town Sanitary District No. 4 recorded in Volume 257 of Misc., Page 209, as Document No. 852792 granting an easement across the North 10 feet of Lot 10, Block 1, APPLIES AND AFFECTS, SHOWN HEREON.
- 13. Easement to the Town Sanitary District No. 4 recorded in Volume 257 of Misc., Page 198, as Document No. 852781, APPLIES AND AFFECTS, SHOWN HEREON.
- 14. Mortgage dated October 6, 1995 and recorded October 6, 1995, in Volume 31023 of Records, Page 36 as 2709838, made by Madison Celebration Station, Inc., to M&I Madison Bank, to secure an indebtedness in the amount of \$165,000.00, and the terms and conditions thereof, APPLIES AND AFFECTS, NOT A MAPPING OR SURVEYING MATTER.

The Following Exceptions Affect Parcel B:

- 15. Easement to the Town Sanitary District No. 4 recorded April 30, 1953, in Volume 257 of Misc., Page 202, as Document No. 852785, APPLIES AND AFFECTS, SHOWN HEREON.
- 16. Easement to the Town Sanitary District No. 4 recorded April 30, 1953, in Volume 257 of Misc., Page 204, as Document No. 852787, APPLIES AND AFFECTS, SHOWN HEREON.



SURVEYED FOR:  
 SUPREME STRUCTURES  
 2906 MARKETPLACE DRIVE  
 FITCHBURG, WI 53719  
 SURVEYED BY:  
 ISTHMUS SURVEYING, LLC  
 450 NORTH BALDWIN STREET  
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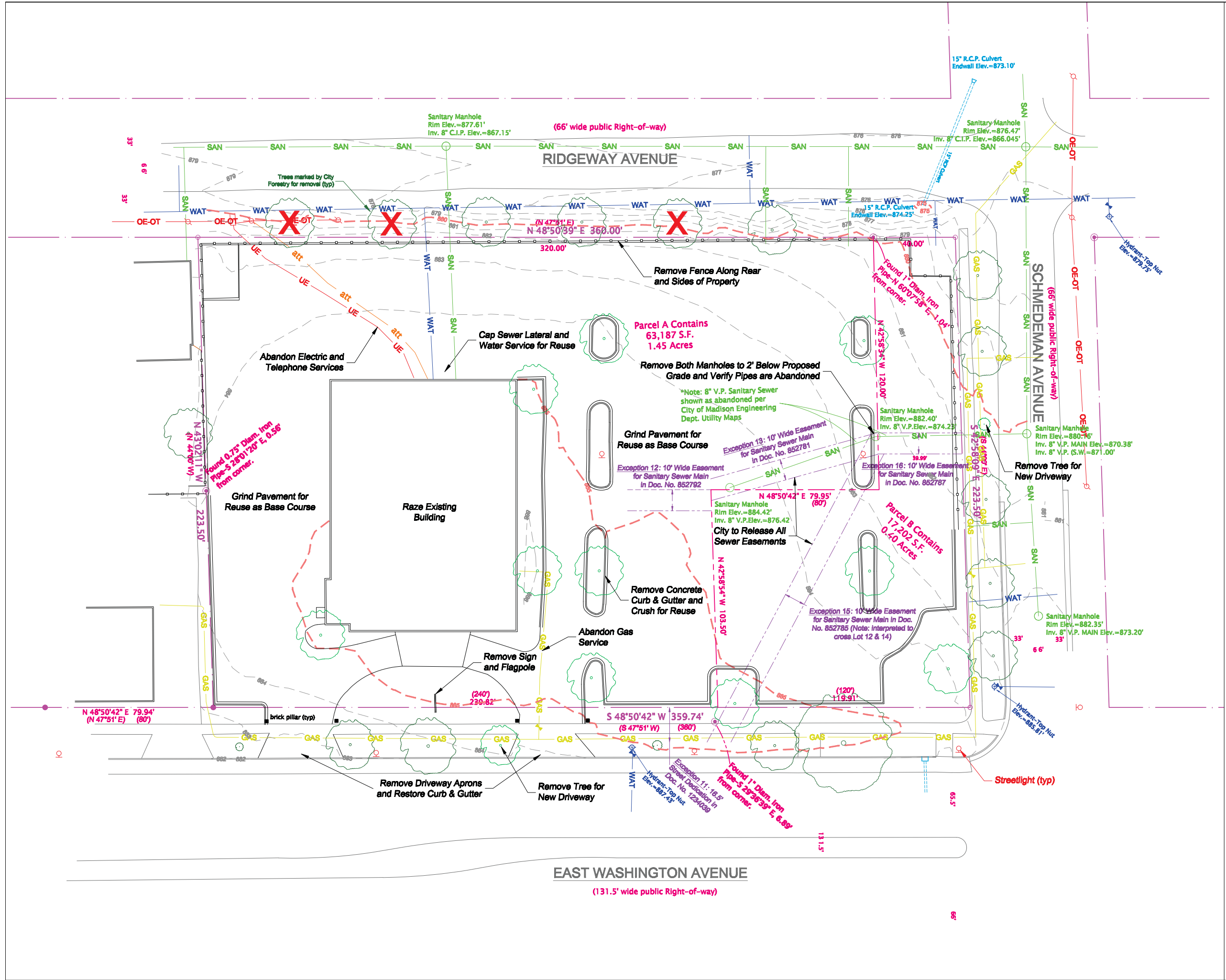


Issue & Revision Dates

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Drawing  
EXISTING BUILDING  
PHOTOS

OPN Project No. 15603000

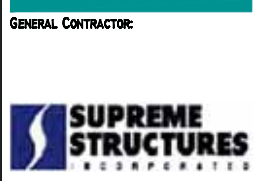


**LEGEND**

- Abandon Gas
- Abandon W, P, Main, Potable
- Abandon Sewer
- Abandon Water
- Abandon
- Abandon C.P. Sewer
- Abandon Sewer Main
- Abandon Water
- Abandon
- Abandon Lot Service
- Line of Property / Cont.
- Lot
- Pole
- Man
- Construction Tree
- Existing Tree



3520 EAST WASHINGTON  
CITY OF MADISON



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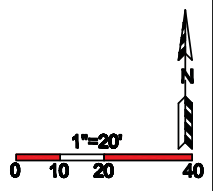
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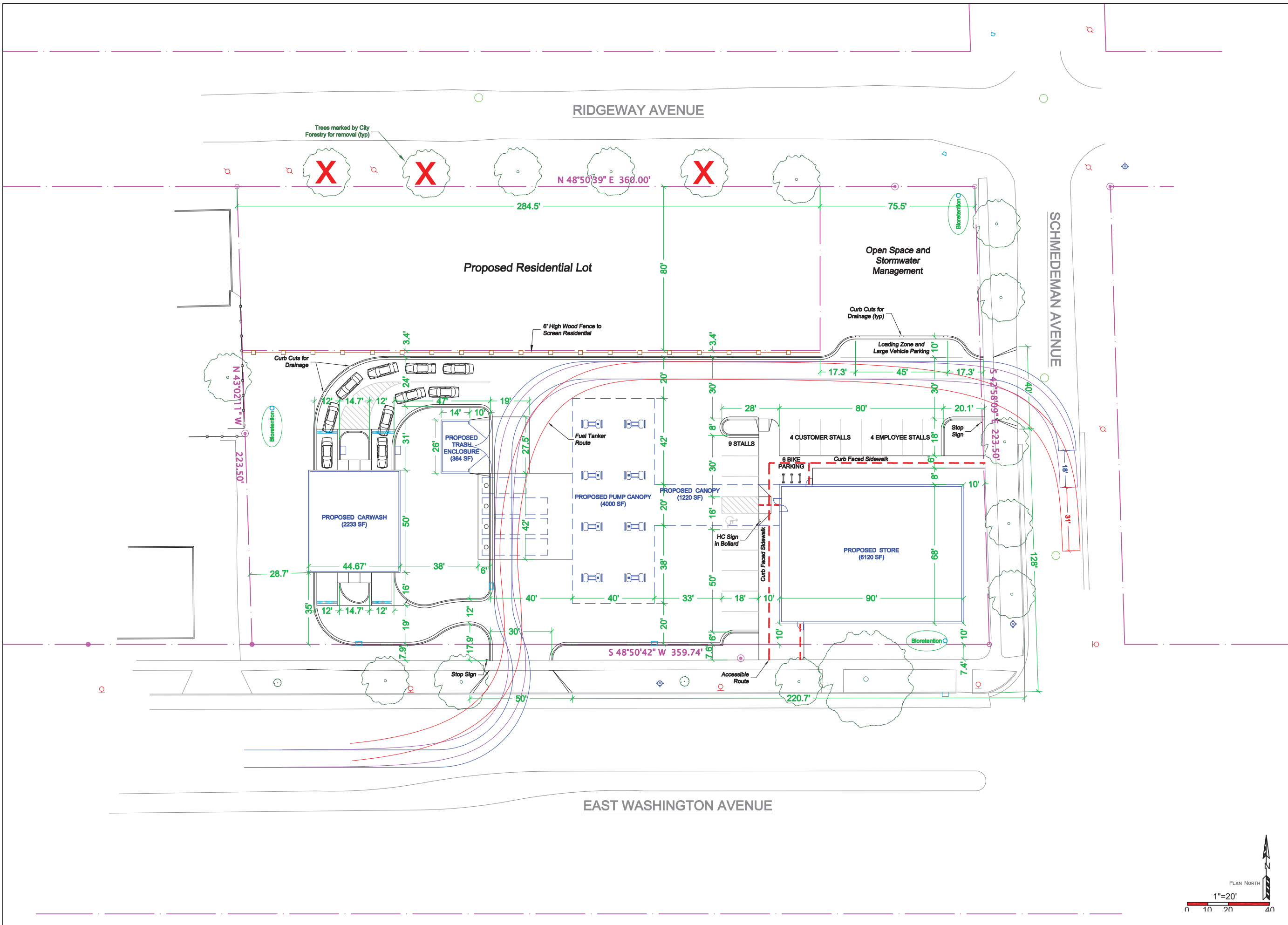
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DESIGN BY: SB, PK, AD  
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EXISTING  
CONDITIONS AND  
DEMOLITION PLAN

**C O . 0**





PROJECT:  
**PDO**  
**FOOD STORES**  
 3520 EAST WASHINGTON  
 CITY OF MADISON

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 INCORPORATED

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**GREEN TIER**  
 A DNR program for superior  
 environmental performance

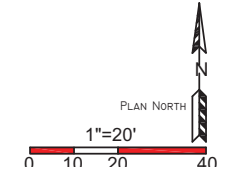
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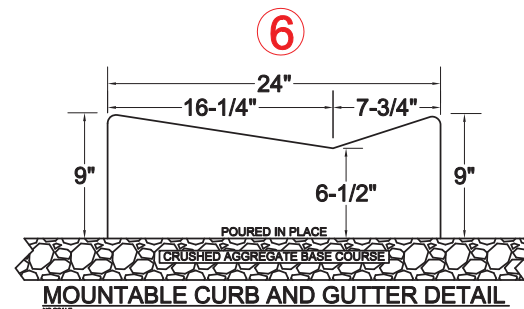
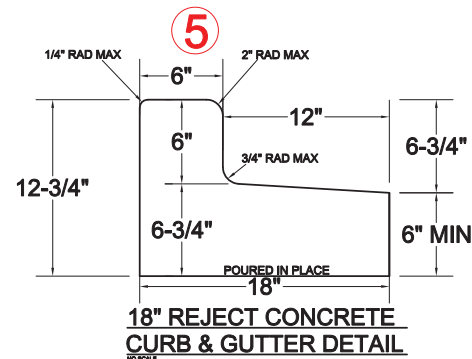
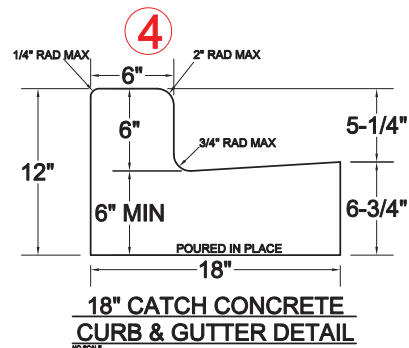
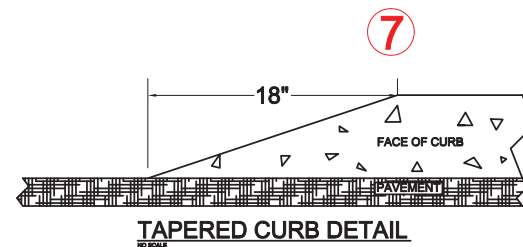
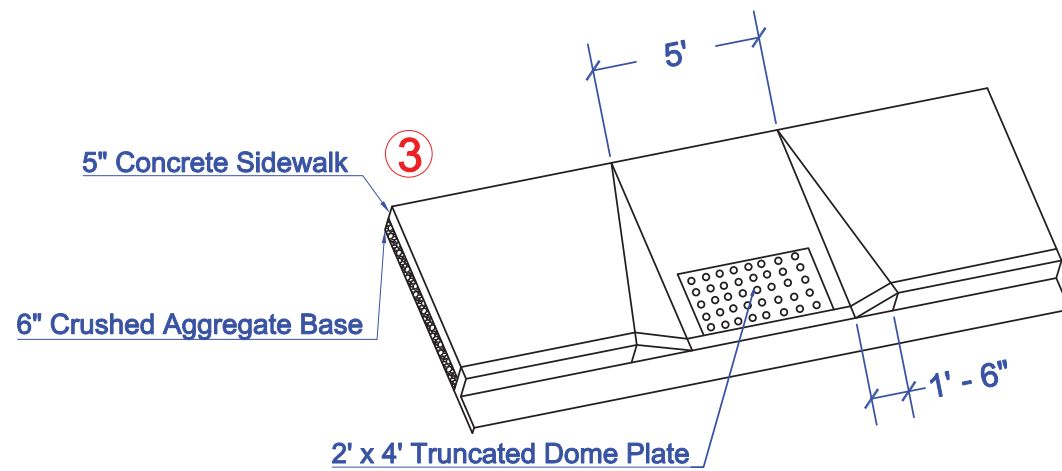
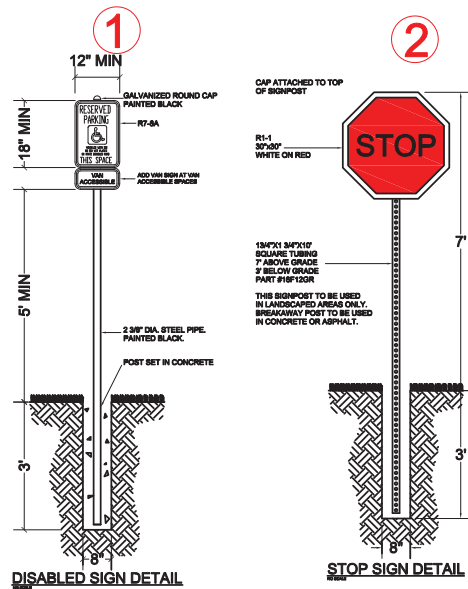
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DRAWN BY: SB, MK, AD  
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SITE PLAN

**C 1.0**





## Parking Lot Plan Site Information Block

Site address: 3520 East Washington Avenue  
 Site acreage (total): 1.85

Number of building stories (above ground): 1  
 Building height: \_\_\_\_\_  
 DILHR type of construction (new structures or additions): \_\_\_\_\_  
 Total square footage of building: 8353

Use of property: Convenience store, car wash, and gas station  
 Gross square feet of office: 0  
 Gross square feet of retail: 6120  
 Number of employees in warehouse: 0  
 Number of employees in production area: 0  
 Capacity of restaurant or place of assembly: 0

Number of bicycle stalls shown: 6

Number of parking stalls:  
 Small car: 0  
 Large car: 16  
 Accessible: 1  
 Total: 17

Number of trees shown: 14

PROJECT:



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 CITY OF MADISON

GENERAL CONTRACTOR:



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 Madison, WI 53718  
 (608) 284-0777  
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STRUCTURAL ENGINEER:



SITE ENGINEER:



ISSUED:  
 8/25/15 PLAN COMMISSION RESUBMITTAL

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SITE PLAN  
 DETAILS

C 1.1

PROJECT:



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CITY OF MADISON

GENERAL CONTRACTOR:



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A DNR program for superior  
environmental performance

ISSUED

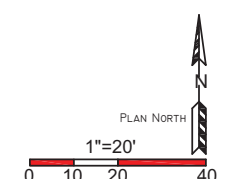
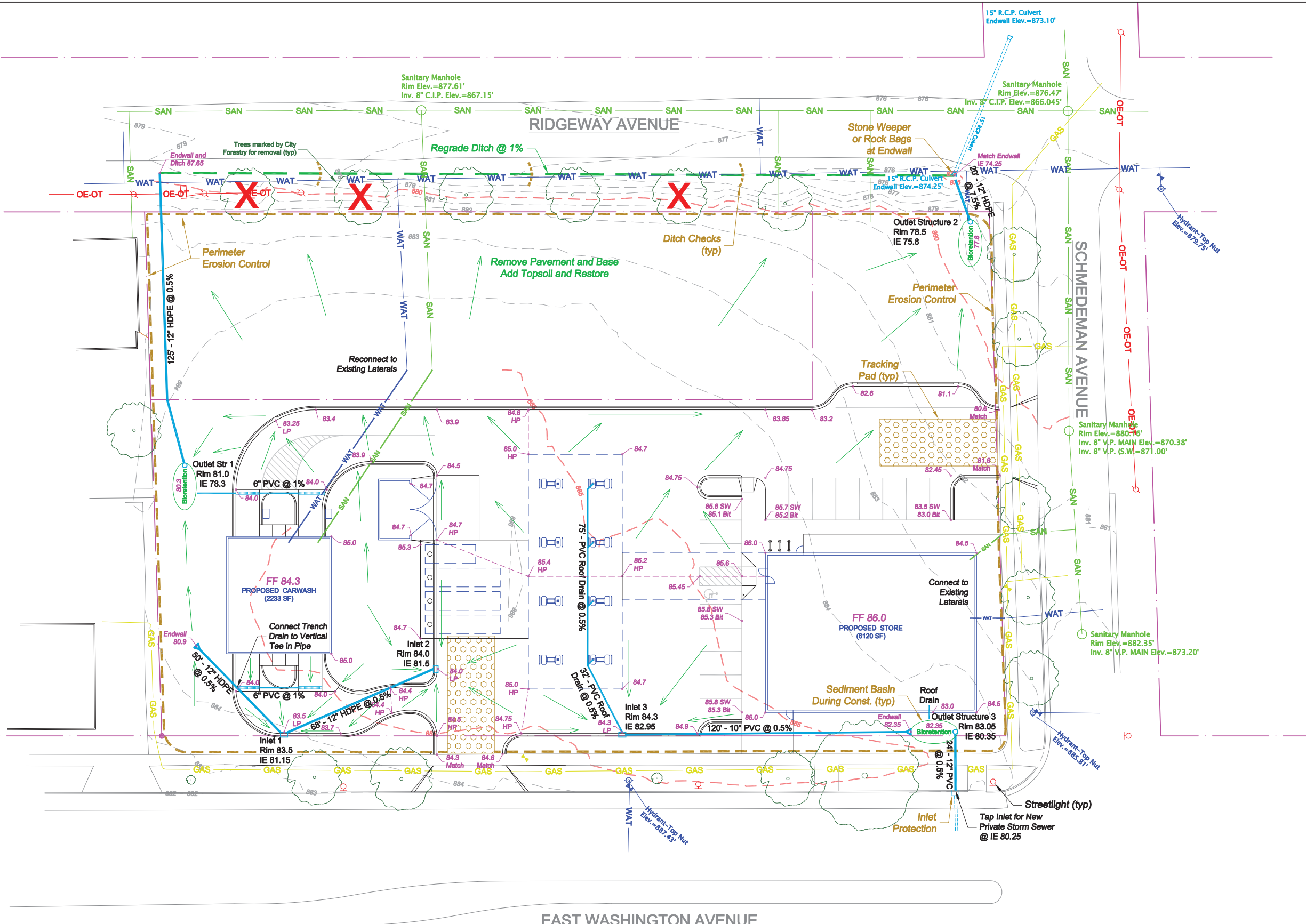
8/25/15 PLAN COMMISSION RESUBMITTAL

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GRADING, EC AND  
UTILITY PLAN

C 2.0



**Erosion Control Notes/Specifications:**

1. Erosion control devices and/or structures shall be installed prior to clearing and grubbing operations. These shall be properly maintained for maximum effectiveness until vegetation is re-established.

2. Erosion control is the responsibility of the contractor until acceptance of this project. Erosion control measures as shown shall be the minimum precautions that will be allowed. The contractor shall be responsible for recognizing and correcting all erosion control problems that are the result of construction activities. Additional erosion control measures, as requested in writing by the state or local inspectors, or the developer's engineer, shall be installed within 24 hours.

3. All erosion control measures and structures serving the site must be inspected at least weekly or within 24 hours of the time 0.5 inches of rain is produced. All maintenance will follow an inspection within 24 hours.

4. Install Type D inlet filters in any street inlet receiving runoff from this site. Refer to WDOT Product Acceptability List at: <http://www.dot.wisconsin.gov/business/engserv/pal.html>

5. Erosion control devices shall adhere to the technical standards found at: <http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm> and comply with all City of Madison ordinances.

6. All debris tracked onto public streets shall be swept or scraped clean by the end of each workday.

7. All disturbed areas shall be seeded immediately after grading activities have been completed.

8. All disturbed areas, except paved areas, shall receive a minimum of four (4) inches of topsoil, fertilizer, seed, and mulch. Seed mixture 40 shall be used on all areas. Mixtures shall be in accordance with section 630 of Wisconsin D.O.T. specifications. Seed mixtures and fertilizer shall be applied at the rate of seven (7) pounds per 1,000 square feet. Mulch shall be applied at the rate of 2 tons per acre and shall be anchored into the soil by discing. Seeding and sodding may only be used from May 1st to September 15th of any year. Temporary seed shall be used after September 15. If temporary seeding is used, a permanent cover shall also be required as part of the final site stabilization.

9. For the first six (6) weeks after the initial stabilization of a disturbed area, watering shall be performed whenever more than seven (7) days of dry weather elapse.

10. Following rough grading, deep tilling will be performed on all graded areas outside of building and street footprints. The operation shall be accomplished using twin straight steel shanks drawn by tracked machinery. Each shank shall be 24 to 36 inches long, positioned over each track.

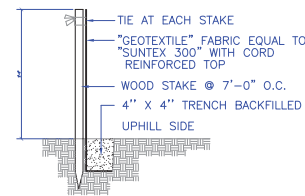
11. All access point to the project site must have a Stone Construction Entrance

12. If rill erosion becomes problematic, the contractor shall apply soil stabilization polymers on all slopes greater than 10% or in problem areas.

**Emergency Contact**  
Mike Hackel  
Homburg Contractors, Inc.  
5590 Monona Drive  
Monona, WI 53716  
(608) 241-1178

**SILT FENCE INSTALLATION DETAIL**

1

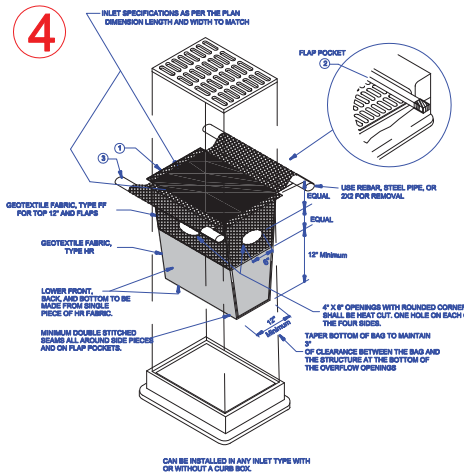


**INSTALLATION PROCEDURE**

- STEP 1: EXCAVATE A 4"x4" TRENCH ALONG PATH OF SILT FENCE.
- STEP 2: STAKE THE SILT FENCE ON DOWNSLOPE SIDE OF TRENCH AND EXTEND 8" OF FABRIC INTO THE TRENCH.
- STEP 3: WHEN JOINTS ARE NECESSARY, OVERLAP ENDS FOR THE DISTANCE BETWEEN THE STAKES.
- STEP 4: BACKFILL AND COMPACT THE EXCAVATED SOIL.

**INLET PROTECTION (TYPE HC)**

4

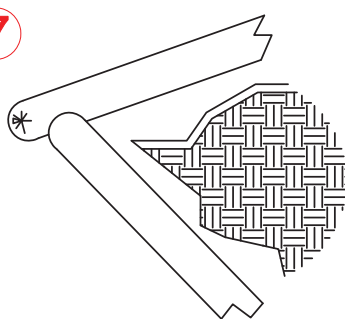


**GENERAL NOTES**

- 1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3".
- 2. SIDE FLAPS SHALL BE A MAXIMUM OF 2" LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
- 3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X2. THE 2X2 SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.
- 4. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.

**Silt Sock Detail**

7

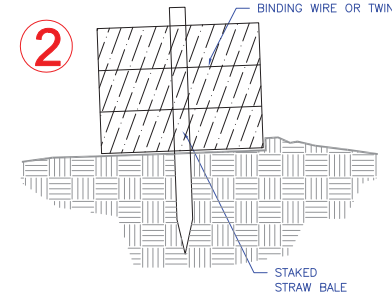


**INSTALLATION PROCEDURE**

Lay full socks in a single row with a 4" end to end overlap.

**STAKED BALE**

2

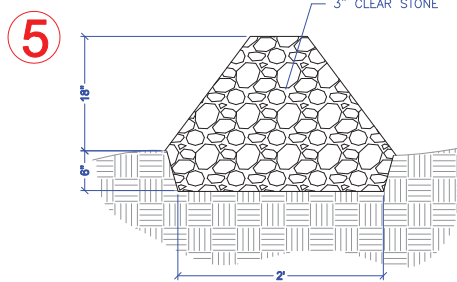


**INSTALLATION PROCEDURE**

- STEP 1: PLACE AND STACK STRAW BALES LENGTHWISE TO FORM WALL.
  - STEP 2: WEDGE LOOSE STRAW BETWEEN BALES.
- NOTE: ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED AS NEEDED.

**CLEAR STONE WEEPER**

5

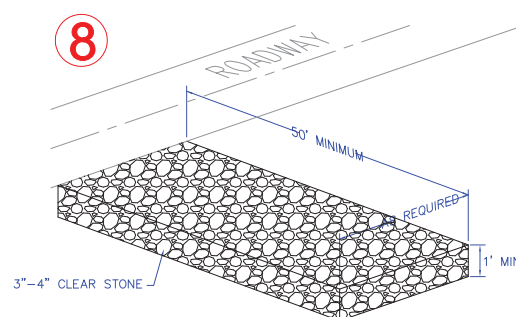


**INSTALLATION PROCEDURE**

- STEP 1: EXCAVATE A 2' WIDE TRENCH.
  - STEP 2: PLACE 3" CLEAR STONE TAPERING FROM A 2' WIDE BOTTOM TO A 6" WIDE TOP.
  - STEP 3: TO PROTECT INLETS, REPEAT IN A CIRCLE AROUND THE ENTIRE INLET.
  - STEP 4: TO PROTECT DITCHES AND SWALES RUN THE WEEPER PERPENDICULAR TO THE FLOW LINE AND EXTEND TO THE TOP OF THE SIDE SLOPE.
- NOTE: ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED AS NEEDED.

**CONSTRUCTION ENTRANCE DETAIL**

8

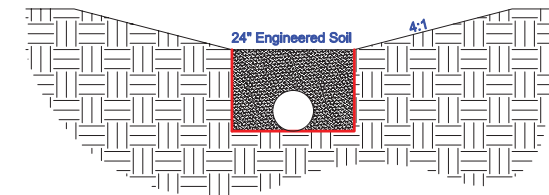


**NOTES:**

- 1. CLEAN UP ANY MATERIAL TRACKED OFF SITE DAILY.
- 2. REPLACE STONE ENTRANCE WHEN IT BECOMES TOO CLOGGED TO PROVIDE ANY CLEANING BENEFIT.

**Bioretention with Liner**

3



**INSTALLATION PROCEDURE**

- Engineered Soil Composition:  
70 - 85 % Coarse sand  
15 - 30 % compost meeting the following requirements:  
Sand: USDA coarse sand 0.02 - 0.04 inch diameter prewashed.  
Compost: Shall meet the requirements of DNR S100

Soil mixture shall be free of rocks, roots, and debris over 1"

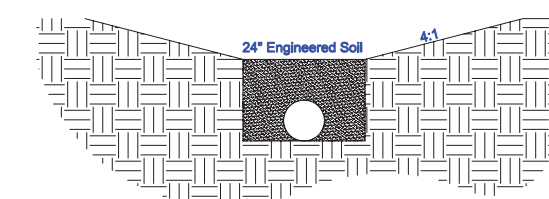
Shall be placed to minimize compaction of mixture and subgrade

Finished basin shall be matted with coconut fabric and planted with native

prairie plugs spaced 12" on center

**Bioretention**

6



**INSTALLATION PROCEDURE**

- Engineered Soil Composition:  
70 - 85 % Coarse sand  
15 - 30 % compost meeting the following requirements:  
Sand: USDA coarse sand 0.02 - 0.04 inch diameter prewashed.  
Compost: Shall meet the requirements of DNR S100

Soil mixture shall be free of rocks, roots, and debris over 1"

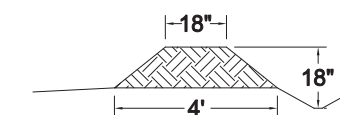
Shall be placed to minimize compaction of mixture and subgrade

Finished basin shall be matted with coconut fabric and planted with native

prairie plugs spaced 12" on center

9

**Erosion Berm**



**INSTALLATION NOTE**

Install stone weepers at low points.

PROJECT:



3520 EAST WASHINGTON  
CITY OF MADISON

GENERAL CONTRACTOR:



2806 Marketplace Drive  
Madison, WI 53718  
(608) 284-0771  
supremestructures.com

ARCHITECT:



301 N Bacon Street Ste 100  
Madison, WI 53703  
(608) 818-0880  
opnarchitects.com

STRUCTURAL ENGINEER:



1925 Tarragon Drive, Madison, WI 53716-2332  
608-467-7455 E-mail: mccoyengineering@charter.net  
Architectural & Structural • Planning & Design  
Commercial • Industrial • Institutional • Residential

SITE ENGINEER:



5890 Monona Drive  
Monona, WI 53716  
(608) 252-8927  
(608) 244-9113 Fax  
homburginc.com



ISSUED

8/25/15 PLAN COMMISSION RESUBMITTAL

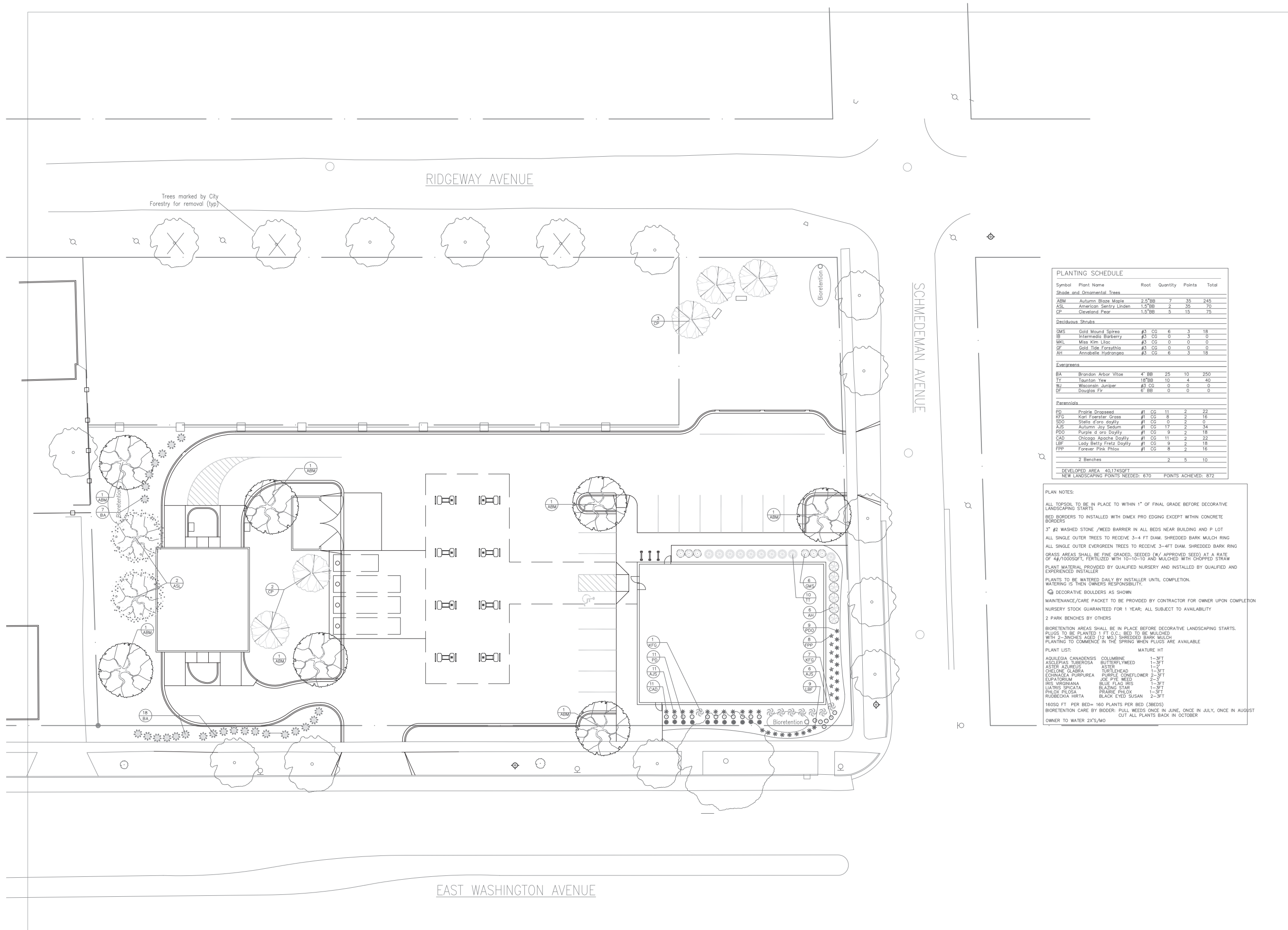
REVISED

© 2015, Homburg Contractors, Inc. DRAWN BY: SB, MK, AD

GRADING & EC  
DETAILS

C 2.1





Symbol	Plant Name	Root	Quantity	Points	Total		
<b>Shade and Ornamental Trees</b>							
ABM	Autumn Blaze Maple	2.5" BB	7	35	245		
ASL	American Sycamore Linden	1.5" BB	2	35	70		
CP	Cleveland Pear	1.5" BB	5	15	75		
<b>Deciduous Shrubs</b>							
GMS	Gold Mound Spirea	#3 CG	6	3	18		
IS	Intermedia Barberry	#3 CG	0	3	0		
MKL	Miss Kim Lilac	#3 CG	0	0	0		
GF	Gold Tide Forsythia	#3 CG	0	0	0		
AH	Annabelle Hydrangea	#3 CG	6	3	18		
<b>Evergreens</b>							
BA	Brandon Arbor Vitae	4" BB	25	10	250		
TY	Taunton Yew	1.5" BB	10	4	40		
WJ	Wisconsin Juniper	#3 CG	0	0	0		
DF	Douglas Fir	6" BB	0	0	0		
<b>Perennials</b>							
PD	Prairie Dropseed	#1 CG	11	2	22		
KFG	Karl Foerster Grass	#1 CG	8	2	16		
SDO	Stella d'oro Daylily	#1 CG	0	2	0		
ASD	Autumn Joy Sedum	#1 CG	17	2	34		
APD	Purple d'oro Daylily	#1 CG	9	2	18		
CAD	Chicago Apache Daylily	#1 CG	11	2	22		
LBF	Lady Betty Fretz Daylily	#1 CG	9	2	18		
FFP	Forever Pink Phlox	#1 CG	6	2	12		
2 Benches					2	5	10
DEVELOPED AREA 40,174 SQ FT							
NEW LANDSCAPING POINTS NEEDED: 670					POINTS ACHIEVED: 872		

**PLAN NOTES:**

ALL TOPSOIL TO BE IN PLACE TO WITHIN 1" OF FINAL GRADE BEFORE DECORATIVE LANDSCAPING STARTS

BED BORDERS TO BE INSTALLED WITH DIMEX PRO EDGING EXCEPT WITHIN CONCRETE BORDERS

3" #2 WASHED STONE /WEED BARRIER IN ALL BEDS NEAR BUILDING AND P LOT

ALL SINGLE OUTER TREES TO RECEIVE 3-4 FT DIAM. SHREDDED BARK MULCH RING

ALL SINGLE OUTER EVERGREEN TREES TO RECEIVE 3-4 FT DIAM. SHREDDED BARK RING

GRASS AREAS SHALL BE FINE GRADED, SEEDED (W/ APPROVED SEED) AT A RATE OF 4#/1000SQ FT, FERTILIZED WITH 10-10-10 AND MULCHED WITH CHOPPED STRAW

PLANT MATERIAL PROVIDED BY QUALIFIED NURSERY AND INSTALLED BY QUALIFIED AND EXPERIENCED INSTALLER

PLANTS TO BE WATERED DAILY BY INSTALLER UNTIL COMPLETION. WATERING IS THEN OWNER'S RESPONSIBILITY.

☒ DECORATIVE BOULDERS AS SHOWN

MAINTENANCE/CARE PACKET TO BE PROVIDED BY CONTRACTOR FOR OWNER UPON COMPLETION

NURSERY STOCK GUARANTEED FOR 1 YEAR; ALL SUBJECT TO AVAILABILITY

2 PARK BENCHES BY OTHERS

BIORETENTION AREAS SHALL BE IN PLACE BEFORE DECORATIVE LANDSCAPING STARTS.

PLUGS TO BE PLANTED 1 FT O.C.; BED TO BE MULCHED WITH 2-INCHES AGED (12 MO.) SHREDDED BARK MULCH

PLANTING TO COMMENCE IN THE SPRING WHEN PLUGS ARE AVAILABLE

**PLANT LIST:**

AQUILEGIA CANADENSIS	COLUMBINE	1-3FT
ASCLEPIAS TUBEROSA	BUTTERFLYWEED	1-3FT
ASTER AZUREUS	ASTER	1-2"
CHELOE GLABRA	TURTLEHEAD	1-3FT
ECHINACEA PURPUREA	PURPLE CONEFLOWER	2-3FT
EUPATORIUM	JOE PYS WEED	2-3"
IRIS VIRGINIANA	BLUE FLAG IRIS	1-3FT
Liatris spicata	BLAZING STAR	1-3FT
PHLOX PILLOSA	RAIRIE PHLOX	1-3FT
RUBROCKIA HIRTA	BLACK EYED SUSAN	2-3FT

160SQ FT PER BED= 160 PLANTS PER BED (3BEDS)

BIORETENTION CARE BY BIDDER: PULL WEEDS ONCE IN JUNE, ONCE IN JULY, ONCE IN AUGUST

CUT ALL PLANTS BACK IN OCTOBER

OWNER TO WATER 2X'S/MO

**MCKAY NURSERY COMPANY**  
 Since 1897 - An Employee Owned Company  
 PO Box 185  
 750 S. Monroes Street  
 Watilco, WI 53594  
 (T) 920.478.2121  
 (T) 800.236.4242  
 (F) 920.478.3615  
 www.mckaynursery.com

S DEVAULT  
 An Independent representative  
 for McKay Nursery Company  
 (T) 608.334.2041  
 (F) 920.478.8615  
 SDEVAULT@MCKAYNURSERY.COM

PDQ  
 EAST WASHINGTON AVE  
 MADISON, WI DANE CO.

Drawing Title  
**Landscape Plan**

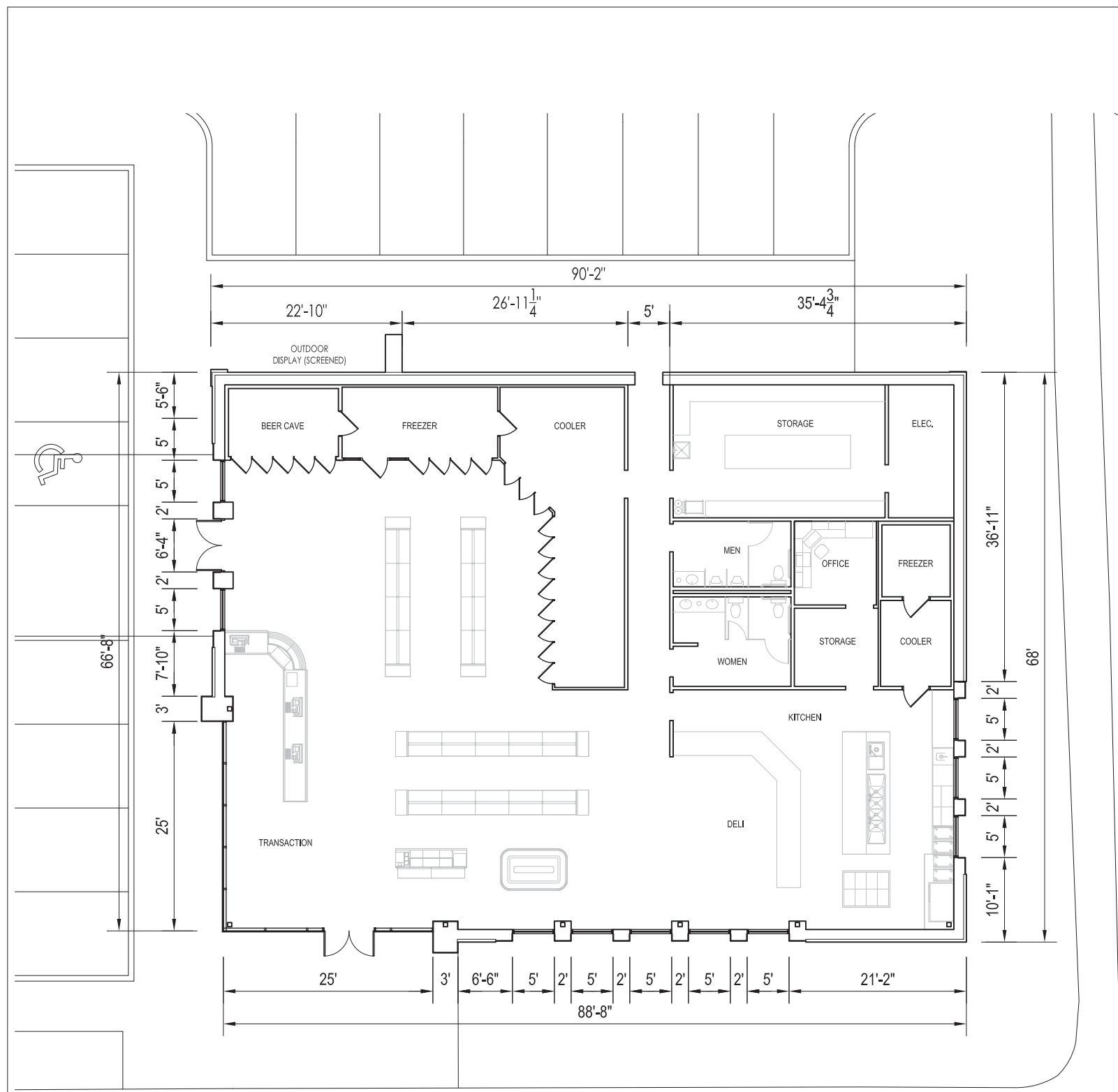
This drawing remains the property of the undersigned, and no use of it shall be made without their consent. The undersigned and McKay Nursery Company assume no responsibility for accuracy, zoning compliance, structural integrity and all details and dimensions.

To show location of participant's underground facilities before you dig.  
 CALL YOUR LOCAL UTILITY

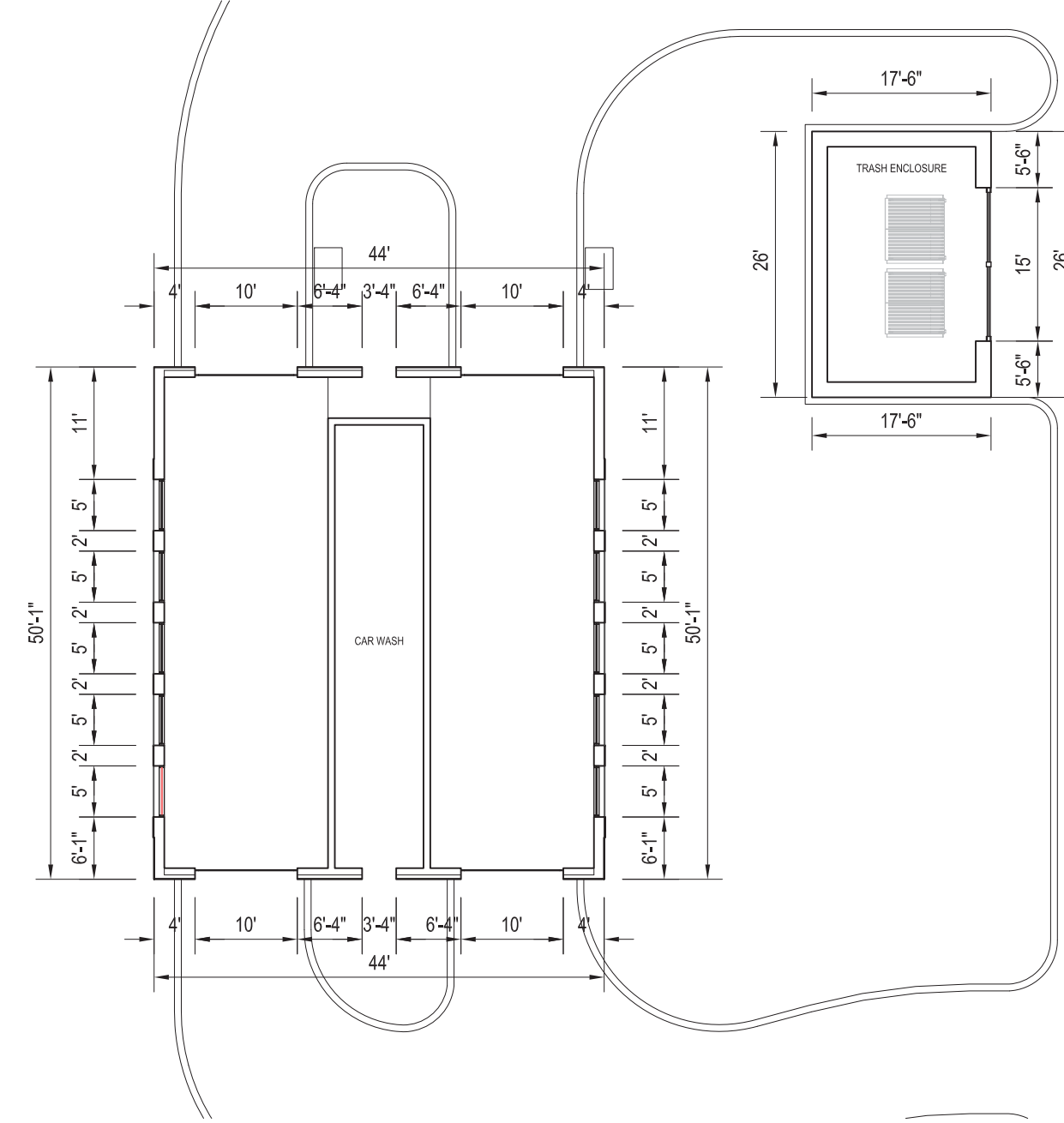
DRAWN BY  
 S DEVAULT  
 PROJECT NUMBER  
 76-15  
 DATE  
 5.21.15  
 C3D FILE  
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 SHEET  
 1 of 1  
 SHEET NUMBER  
**L1**

Issue & Revision Dates

CITY OF MADISON STAFF REVIEW	04.08.2015
CITY OF MADISON DAT PRESENTATION	04.23.2015
NEIGHBORHOOD REVIEW	05.18.2015
UDC INFORMATIONAL PRESENTATION	05.20.2015
UDC SUBMITTAL	05.27.2015
UDC REVISION	06.17.2015
UDC RESUBMITTAL	08.26.2015



**1 CONVENIENCE STORE FLOOR PLAN**  
1/8" = 1'-0"



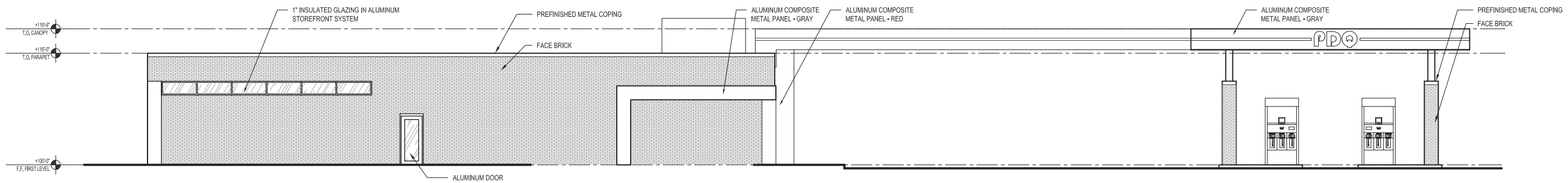
**2 CAR WASH FLOOR PLAN**  
1/8" = 1'-0"



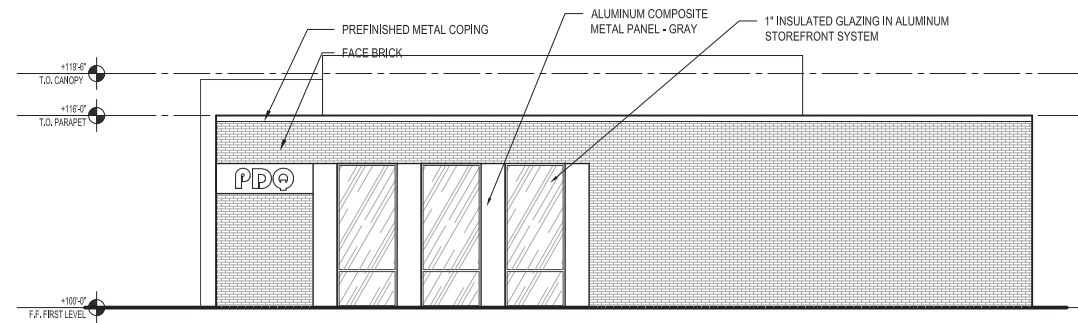


Issue & Revision Dates

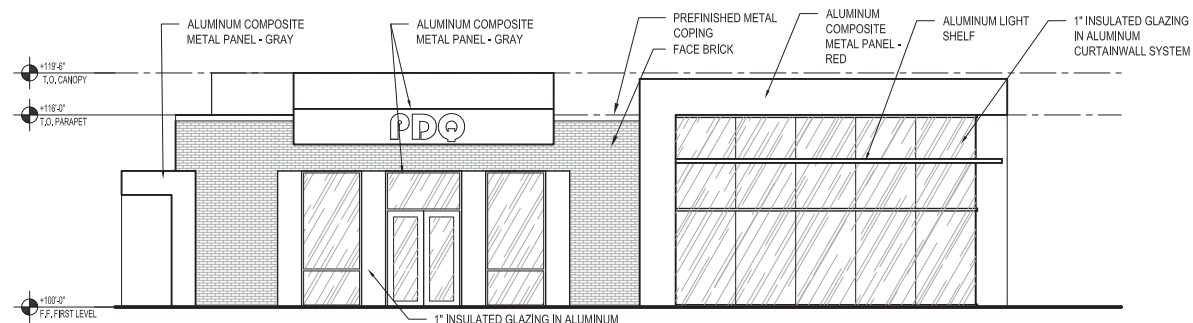
CITY OF MADISON STAFF REVIEW	04.08.2015
CITY OF MADISON DAT PRESENTATION	04.23.2015
NEIGHBORHOOD REVIEW	05.18.2015
UDC INFORMATIONAL PRESENTATION	05.20.2015
UDC SUBMITTAL	05.27.2015
UDC REVISION	06.17.2015
UDC RESUBMITTAL	08.26.2015



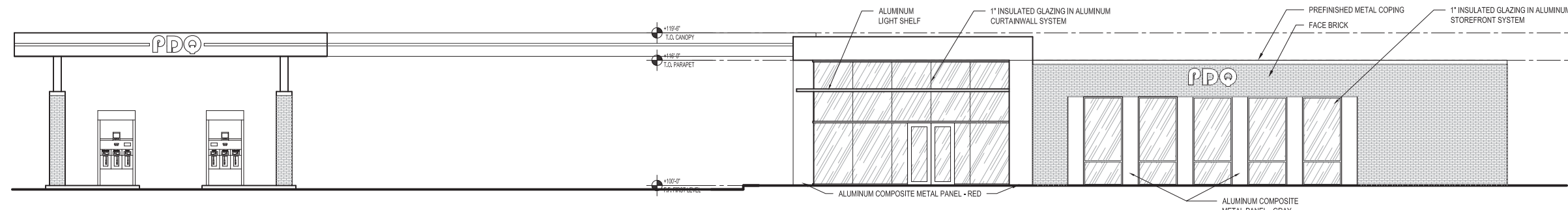
**1 NORTH ELEVATION - RIDGEWAY AVE**  
1/8" = 1'-0"



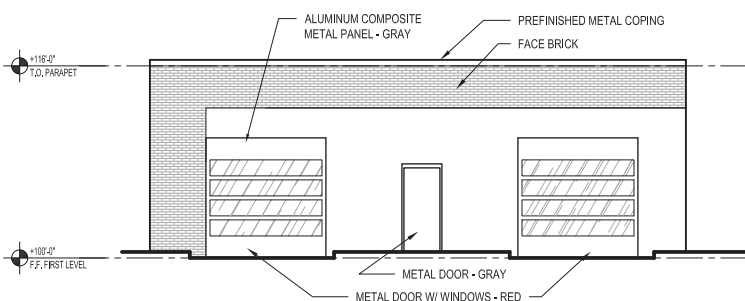
**2 EAST ELEVATION - SCHMEDEMAN AVE**  
1/8" = 1'-0"



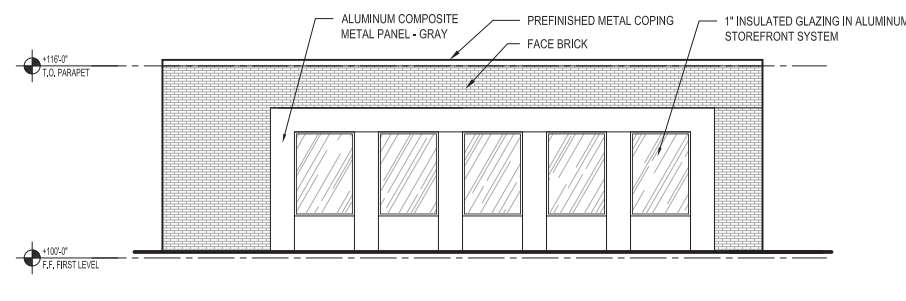
**3 WEST ELEVATION**  
1/8" = 1'-0"



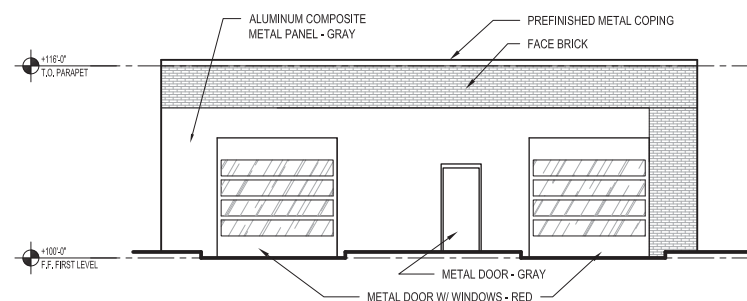
**4 SOUTH ELEVATION - EAST WASHINGTON AVE**  
1/8" = 1'-0"



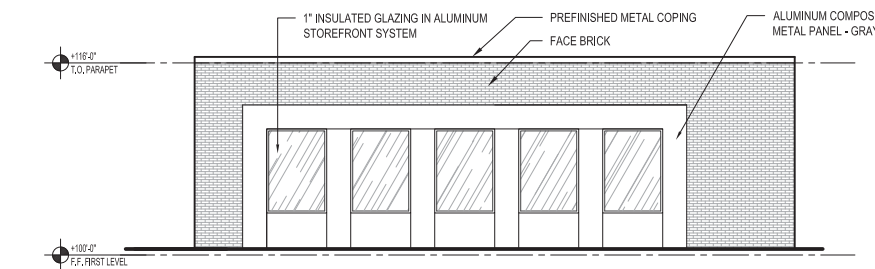
**5 CAR WASH - NORTH ELEVATION**  
1/8" = 1'-0"



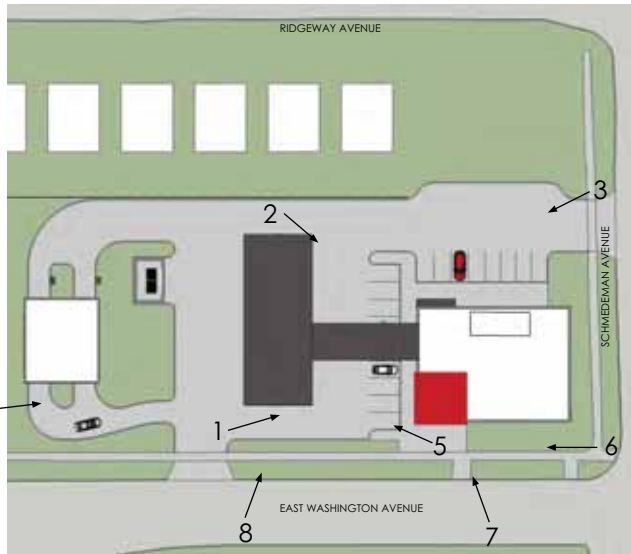
**6 CAR WASH - EAST ELEVATION**  
1/8" = 1'-0"



**7 CAR WASH - SOUTH ELEVATION**  
1/8" = 1'-0"



**8 CAR WASH - WEST ELEVATION**  
1/8" = 1'-0"



CEDAR RAPIDS • DES MOINES • MADISON

OPN ARCHITECTS, INC.  
301 N. BROOM ST., SUITE 100  
MADISON, WI 53703  
608/819-0260 PHONE  
www.opnarchitects.com  
opn@opnarchitects.com



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Client  
**PDQ FOOD STORES**  
3520 East Washington Ave  
Madison, WI 53704

Architect of Record  
**OPN ARCHITECTS**  
301 N. Broom Street, Suite 100  
Madison, WI 53703

Contractor  
**SUPREME STRUCTURES**  
2306 Marketplace Drive, Suite A  
Madison, WI 53719

Project  
**PDQ FOOD STORES**  
3520 E WASHINGTON AVE  
MADISON, WI 53704



Issue & Revision Dates

CITY OF MADISON STAFF REVIEW	04.06.2015
CITY OF MADISON DAT PRESENTATION	04.23.2015
NEIGHBORHOOD REVIEW	05.18.2015
UDC INFORMATIONAL PRESENTATION	05.20.2015
UDC SUBMITTAL	05.27.2015
UDC SUBMITTAL	06.17.2015
UDC SUBMITTAL	08.26.2015

Drawing  
**PROPOSED SITE STUDY**

OPN Project No. 15603000



SOUTH ELEVATION



EAST ELEVATION



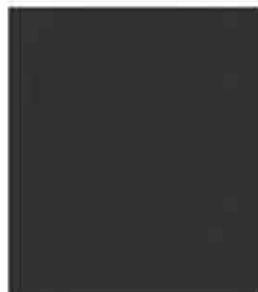
NORTH ELEVATION



WEST ELEVATION



MATERIAL: BR-1  
COLOR: ROYAL GRAY VELOUR  
MANUFACTURER: GENERAL SHALE BRICK



MATERIAL: MT-1  
COLOR: CNC CHARCOAL  
(3MM4CNC8) MANUFACTURER:  
ALPOLIC



MATERIAL: MT-2  
COLOR: RON RED (4MM4RON8)  
MANUFACTURER: ALPOLIC



MATERIAL: MT-3  
COLOR: AGT GREY (4MM4AGT8)  
MANUFACTURER: ALPOLIC



MATERIAL: PT-1  
TYPE: DTM ACRYLIC PRIMER/  
FINISH  
COLOR: WHITE (B66W1)  
MANUFACTURER: SHERWIN-  
WILLIAMS



MATERIAL: WD-1  
COLOR: CEDAR NATURALTONE  
(ON CEDAR)  
MANUFACTURER: OLYMPIC



MATERIAL: GL-1  
TYPE: 1/4" (6MM) PPG SOLARBAN®  
60 ON STARPHIRE LOW-E #2 OR  
#3  
MANUFACTURER: OLD CASTLE  
BUILDING ENVELOPE

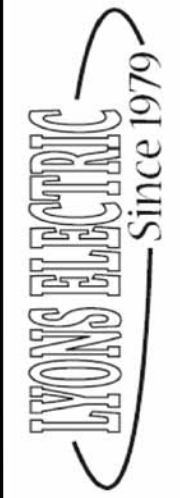


Issue & Revision Dates

CITY OF MADISON STAFF REVIEW	04.06.2015
CITY OF MADISON DAT PRESENTATION	04.23.2015
NEIGHBORHOOD REVIEW	05.18.2015
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UDC SUBMITTAL	05.27.2015
UDC SUBMITTAL	06.17.2015
UDC SUBMITTAL	08.26.2015

SUBMITTAL  
DRAWING  
8-25-15

SCHMEDEMAN AVENUE



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Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:  
Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

CONTACT INFORMATION:  
Mark Bealhen  
Main: (262)-646-6828  
Fax: (262)-646-6829

PROJECT NAME:  
**PDQ - SITE  
PHOTOMETRICS**  
3520 East Washington Avenue  
Madison, WI

SHEET TITLE:  
**Photometric Study  
Site Plan**

DRAWN BY:  
KRK

DATE DRAWN:  
5-26-15

APPROVED BY:  
KRK

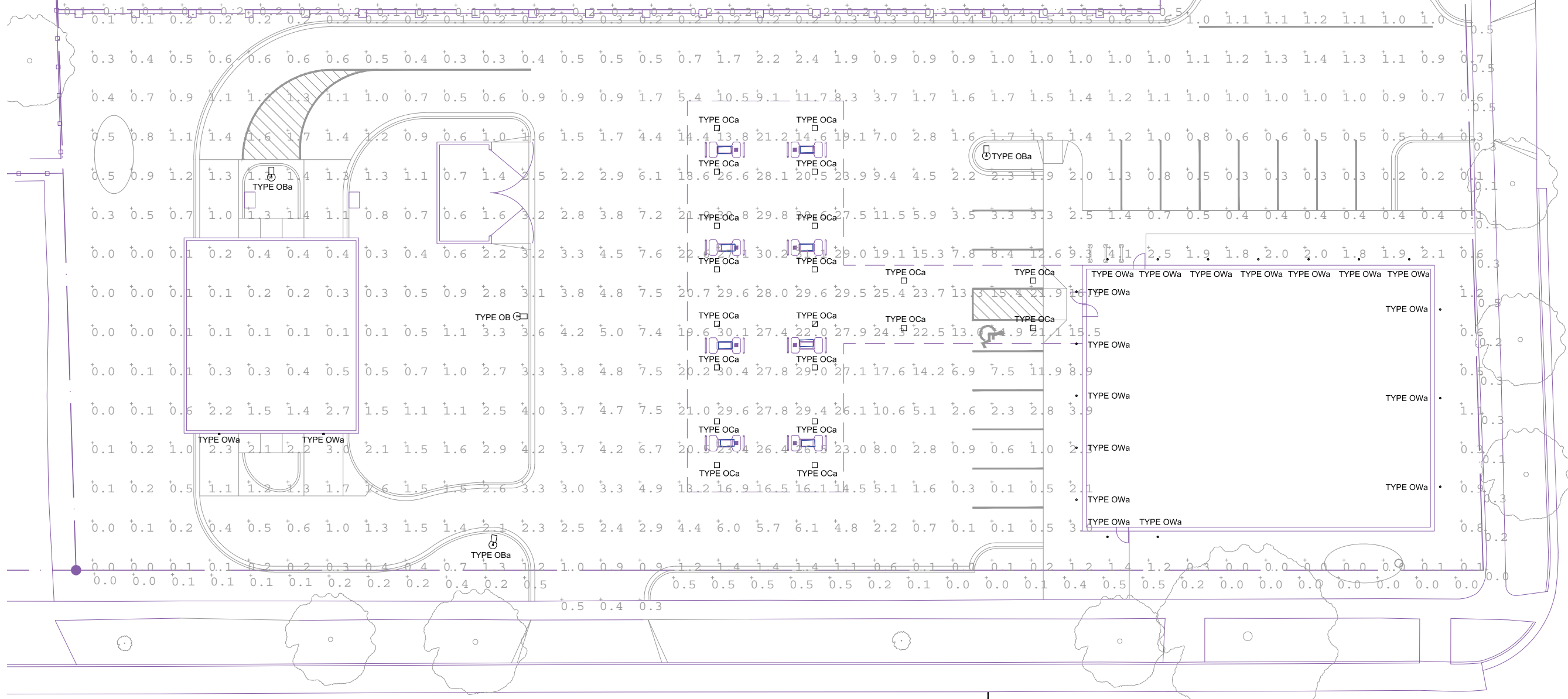
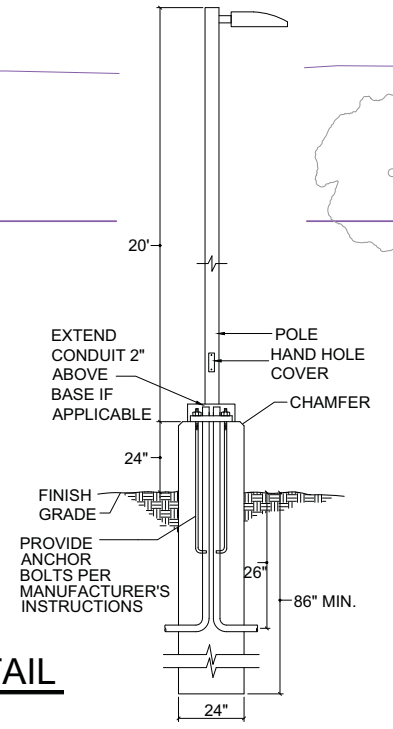
Sheet Of  
**1 12**

SHEET:  
**ES100**

StatArea	StatArea_1
Canopy	Parking and Drive
Illuminance Values (Fc)	Illuminance Values (Fc)
Average =23.96	Average =2.69
Maximum =31.1	Maximum =19.1
Minimum =13.0	Minimum =0.1
Avg/Min Ratio=1.84	Avg/Min Ratio=26.90
Max/Min Ratio=2.39	Max/Min Ratio=191.00
Max/Avg Ratio=1.30	Max/Avg Ratio=7.10

**POLE BASE DETAIL**

NTS



**SITE PHOTOMETRIC STUDY**

NTS



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SUBMITTAL  
DRAWING  
8-25-15

LYONS ELECTRIC  
Since 1979

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**HALO LED ICAT HOUSING for NEW CONSTRUCTION**

The H750ICAT is a dedicated LED new construction housing to be used with designated HALO LED modules. The H750ICAT is designed for insulated ceilings and can be in direct contact with ceiling insulation\*. This AIRTITE housing design prevents airflow between conditioned and unconditioned spaces and saves 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 #	H750ICAT	Type	OA
Project	PDQ Washington Avenue	Date	8-25-15
Comments	ML706830 & 492PS06		
Prepared by	KRK		

**HALO®**

**DESIGN FEATURES**

**Housings**

Aluminum construction for greater heat dissipation. H750 ICAT housing is gasketed to prevent airflow from heated or air conditioned spaces.

**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 1/2" 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**

- 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 in place with one hand while driving nails.
- 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.

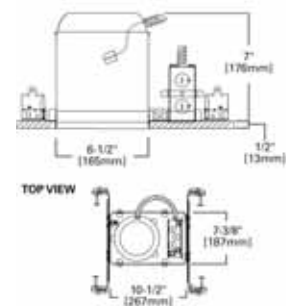
**Labels**

- 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
- UL/cUL Listed for Feed Through
- UL/cUL Listed for Damp Location
- UL/cUL Listed for Wet Location with select trims
- UL/cUL Listed for direct contact with insulation and combustible material\*
- 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)
- Washington State Energy Code
- New York State Energy Conservation Construction Code - AIR-TITE™ Compliant
- Certified under ASTM-E283 standard for air-tight construction



Cooper Lighting  
by E.T.N.

\* Not to be used in direct contact with spray foam insulation.

ADV141509  
6/17/2014



**H750ICAT**

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

High Efficacy LED Housing

FOR USE IN INSULATED CEILING  
FOR DIRECT CONTACT WITH INSULATION\*



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

**Description**

The Halo LED ML7068xx modules are designed for retrofit applications with an Edison screw base adapter (included with the module) for use in existing housings OR may also be used in new construction with the LED dedicated housing Series H750x. Halo LED 600 Series offers selection of four color temperatures: 2700K, 3000K, 3500K, 4000K. Halo LED offers a superior optical design that yields productive beam lumens, good cutoff and low glare.

**Specification Features**

Exceeds the light output and distribution of a 65W BR30 incandescent lamp or an 18W compact fluorescent luminaire (lamp and reflector trim), while consuming less than 14 watts.

**Dimming**

The ML7068xx series is designed for dimming capability to 15% in normal operation with standard 120V LED-Rated, electronic low voltage, and many incandescent dimmers. The LED module may also dim to 5% using dimmers with low end trim adjustment. Consult dimmer manufacturer for application/compatibility. Note, some dimmers require a neutral in the wallbox.

**Quality of Light**

Halo 600 Series provides excellent color rendering 90 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 emit 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 ML7068xx LED modules are designed for use in the dedicated H750x series housings OR for retrofit applications in existing Halo or ALL-PRO™ H7/ET7/EI7 housings. The Halo LED module is designed for use in either IC (insulated ceiling) or non-IC construction.

Compatible HALO and ALL-PRO housings include model numbers:

- Dedicated LED Housing: H750x Series
- Halo Housings: H7x Series
- ALL-PRO Housings: ET7x and EI7x Series

**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 insulated ceiling environments.

**Air-Tite™ Rating**

The Halo LED module has passed restricted air flow testing, and now qualifies any housing to meet airtight 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 120V, 60/60Hz. 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 Housing and LED trims.

Catalog #	ML706830	Type	OA
Project	PDA Washington Avenue	Date	8-25-15
Comments	H750ICAT & 492PS06		
Prepared by	KRK		

**HALO®**



**ML7068xx**

6" LED module and trim For new construction OR retrofit applications

600 Series LED dimmable module

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

494WB06 Halo LED series trim

For use in non-insulated ceilings

\*IC housings not in spray foam insulation.



<b>600 Series Energy Data:</b>	
(Values at non-dimming line voltage)	
Minimum Starting Temp. 30°C (87°F)	
EMC/RFI FCC Title 47 CFR, Part 18, Class B (Consumer)	
Sound Rating	Class A standards
Input Voltage	120V
Power Factor	>0.99
Input Frequency	50/60Hz
THD	<2%
Input Power	13.8W
Input Current	126mA
Maximum IC (Insulated Ceiling) Ambient Continuous Operating Temperature	25°C (77°F)
Maximum Non-IC Ambient Continuous Operating Temperature	40°C (104°F)



E.T.N.  
Powering Business Worldwide

TD518014EN  
June 22, 2015

**Revisions**

No.	Description	Date

**FIRM NAME AND ADDRESS:**

Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

**CONTACT INFORMATION:**

Mark Bealhen  
Main: (262)-646-6828  
Fax: (262)-646-6829

**PROJECT NAME:**

PDQ - SITE  
PHOTOMETRICS

3520 East Washington Avenue  
Madison, WI

**SHEET TITLE:**

Photometric Site Plan  
Cut Sheets

DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	

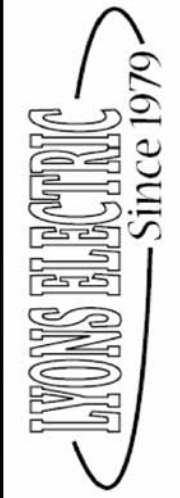
Sheet Of  
**2 12**

**SHEET:**

**ES101**

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DRAWING  
8-25-15



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Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:  
  
Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

CONTACT INFORMATION:  
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3	12
SHEET: <b>ES102</b>	

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ML7068xx

**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 (WATS). 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, H7TNS, H7RT, H750TQ010, H750RTD010, H750TCP010 housings.

**Transformer with Dimmer /Switch as Secondary**

Transformer with Dimmer /Switch on Primary  
(Magnetic Low Voltage Dimmer Recommended)

Dimmer or Switch may be on the Primary (277V) OR Secondary (120V) side of the transformer.

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

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

**H277**  
2-1/4" (57mm) x 4-1/4" (108mm)

**H347**  
2-1/2" (63mm) x 2-3/4" (70mm)

**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)**  
 1. H277 transformer at full loading consumes a maximum of 16W of power  
 2. 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.  
 3. 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)**  
 1. H347 transformer at full loading consumes a maximum of 13W of power  
 2. 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.  
 3. 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, H7TNS, H7RT, ET700, ET700R, H750T, H750TCP, H750TD010, H750RTD010, H750TCP010 Series non-IC housings.

**Ordering Information**  
 Sample number: ML706827 494WB06  
 Order LED Module and trim separately

600 Series LED Module	Trim Options	Accessories (see product details for application information)
<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;">ML706x 6" LED Module 600 Series</div> <div style="border: 1px solid black; padding: 2px;">8-80 CRI</div> <div style="border: 1px solid black; padding: 2px;">27-2725°K 30-3045°K 35-385°K 40-395°K</div> </div>	494WB06-White Baffle/ white die cast trim ring.	<b>494OPTIC-4"</b> Over-Optic Diffuse Lens for use with Open LED Trims (494 family), Shower rated.  <b>Enlarge Trim Ring</b> <b>OT490WH-6"</b> Enlarge white die-cast trim ring 9-1/4" O.D. Attaches to LED module, substitute for standard trim ring shipped with trims. <b>OT400P</b> -Enlarge White Metal Trim Ring 6" ID x 9-1/4" OD <b>OT403P</b> -Enlarge White Plastic Trim Ring 6" ID x 8" OD  <b>Transformer</b> <b>H277-300VA</b> Transformer - Steps 277 line voltage down to 120V (see App. Note) <b>H347-75VA</b> Transformer - Steps 347 line voltage down to 120V (see App. Note)  <b>Retrofit</b> <b>ML7RAB</b> - 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**  
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P: 770-486-4800  
www.eaton.com/lighting

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EATON TD518014EN Installation instructions 2

ML7068xx

**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

**494WB06 White Baffle with White Trim Ring**

**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 16" 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)

**ML7RAB Retrofit Adapter Band (Four Adapters per Box)**

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

**Enlarge LED Trim Ring**  
For use when ceiling opening is irregular or cut too large.

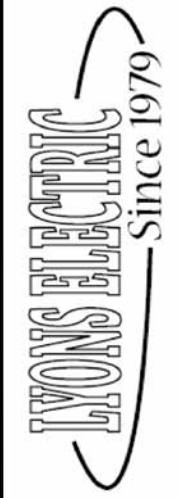
- **OT490WH** = LED Enlarge White Die-Cast Aluminum Trim Ring 5-1/8" ID x 9-1/4" OD - attaches to LED module, substitute for standard LED trim ring.

**OT400, OT403, OT490WH Enlarge Trim Rings**

EATON TD518014EN Installation instructions 2



SUBMITTAL  
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**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.

**HALO®**

**494P06 White Reflector with White Trim Ring**

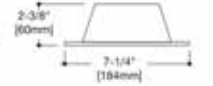
- Halo matte white finish
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



**494P06**  
White Reflector  
with White Trim Ring

**494SC06 Specular Reflector with White Trim Ring**

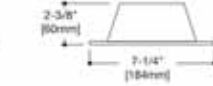
- Halo matte white finish trim ring
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



**494SC06**  
Specular Reflector  
with White Trim Ring

**494H06 Haze Reflector with White Trim Ring**

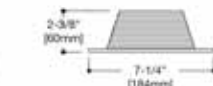
- Halo matte white finish trim ring
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



**494H06**  
Haze Reflector  
with White Trim Ring

**494WB06 White Baffle with White Trim Ring**

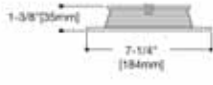
- Halo matte white finish
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



**494WB06**  
White Baffle  
with White Trim Ring

**492PS06 White Lensed Shower Trim with White Trim Ring**

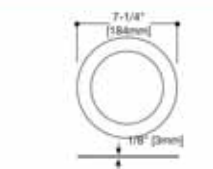
- White trim ring and baffle, regressed lens
- Wet location listed for use in showers and protected canopy applications
- Suggested for use:
  - over tubs and showers
  - eaves and soffits
- Aluminum baffle and die-cast trim ring
- Frosted glass regressed lens
- Trim Height of .160" at OD & .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



**492PS06**  
Lensed White Shower Trim  
White Trim Ring

**TRM490WH Thin Profile Trim Ring (Optional Accessory)**

- Die-cast trim ring
- Thin trim ring provides a more subtle ceiling appearance
- Purchase as accessory and discard ring supplied with trim
- Trim ring height of .120" at OD and .180" at ID



**TRM490WH**  
Optional Accessory  
Thin Profile Trim Ring

**COOPER LIGHTING**

**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 and UL/cUL Listed for wet locations.

**Streetworks**

Catalog #	GAN-AE-03-LED-U-T3-BZ	Type	OB
Project	PDQ Washington Avenue	Date	8-25-15
Comments	157 Watt 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.

**Optics**  
Patented, high-efficiency injection-molded AccuLED Opticstechnology. 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 70 CRI. Optional 6000K CCT and 3000K CCT.

**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. 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 assembly. Designed for pole or wall mounting. When mounting

two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole 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.

**Warranty**  
Five-year warranty.



**GAN GALLEON LED**

1-10 Light Squares  
Solid State LED

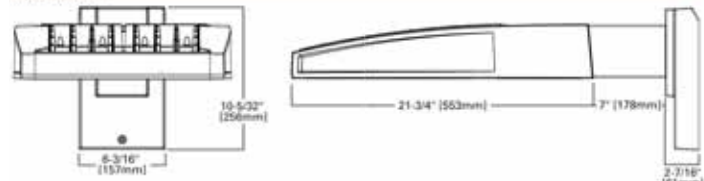
AREA / ROADWAY LUMINAIRE

**DIMENSIONS**

**POLE MOUNT**



**WALL MOUNT**



**DIMENSION DATA**

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length 1	Weight with Arm (lbs.)	EPA with Arm 1 (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. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 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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**Revisions**

No.	Description	Date

**FIRM NAME AND ADDRESS:**

Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

**CONTACT INFORMATION:**

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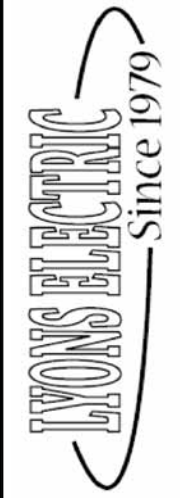
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DATE DRAWN: 5-26-15  
APPROVED BY: KRK

Sheet **4** Of **12**

SHEET: **ES103**

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Revisions		
No.	Description	Date

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DATE DRAWN: 5-26-15	
Sheet	Of
5	12
SHEET: <b>ES104</b>	

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**GAN GALLEON LED**

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

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	1A	1A	1A	1A	1A	1A	1A	1A	1A	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	1.78	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**

Optics	Lumens	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	15,609	20,704	25,652	30,697	36,200	41,134	45,984	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	51,900
	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	51,090
	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	30,068	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	15,607	20,701	25,649	30,690	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
SNQ	Lumens	5,542	10,830	16,100	21,352	26,455	31,858	37,439	42,421	47,330	52,390
	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
SMQ	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
SWG	Lumens	5,858	11,659	17,501	23,803	29,014	34,327	39,230	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
SLR/SLR	Lumens	4,722	9,227	13,787	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	26,218	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	9,312	16,771	24,072	31,236	38,311	45,498	52,336	60,191	67,060	74,107
	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.

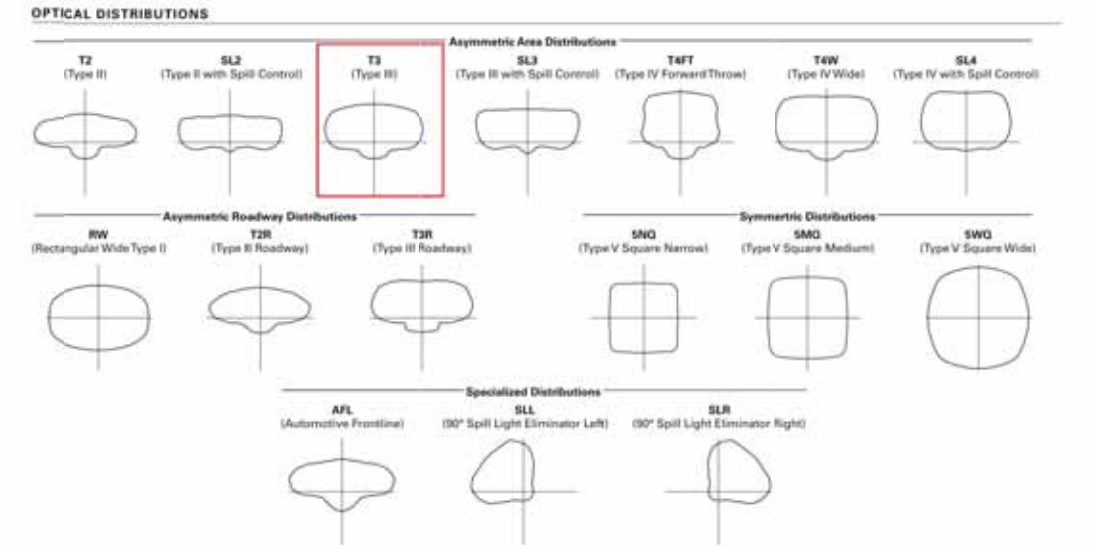
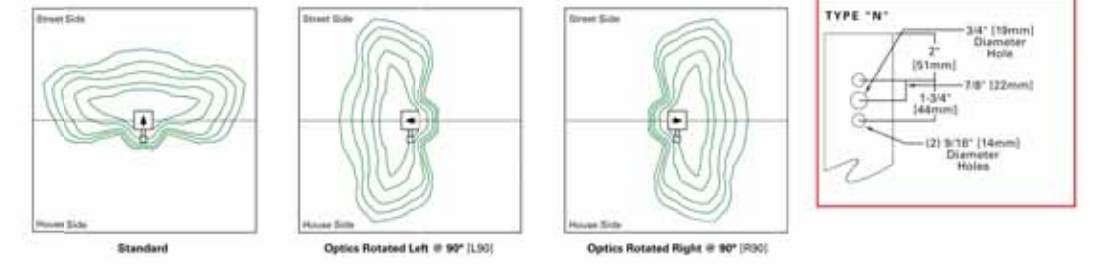
**LUMEN MULTIPLIER**

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**

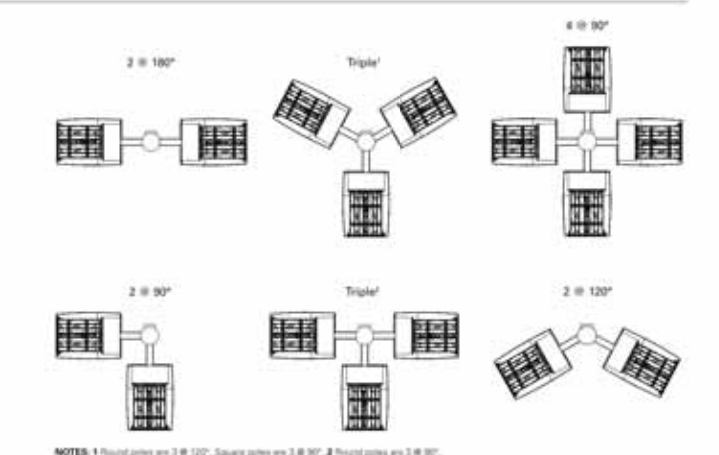
Ambient Temperature	T84-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

**GAN GALLEON LED**

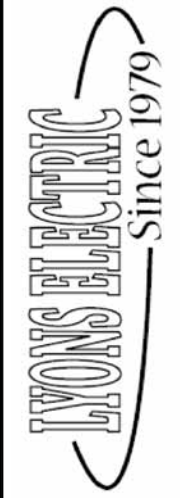


**ARM MOUNTING REQUIREMENTS**

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



SUBMITTAL  
DRAWING  
8-25-15



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Revisions		
No.	Description	Date

FIRM NAME AND ADDRESS:  
  
Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

CONTACT INFORMATION:  
Mark Bealhen  
Main: (262)-646-6828  
Fax: (262)-646-6829

PROJECT NAME:  
  
PDQ - SITE  
PHOTOMETRICS  
  
3520 East Washington Avenue  
Madison, WI

SHEET TITLE:	
Photometric Site Plan Cut Sheets	
DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
6	12
SHEET:	
ES105	

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 DRAWING SET.

### COOPER LIGHTING

Catalog #	SSS4A20SFN1XG	Type	OB
Project	PDQ Washington Avenue	Date	8-25-15
Comments	Single Head Pole		
Prepared by	KRK		

- 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)



SSS SQUARE STRAIGHT STEEL

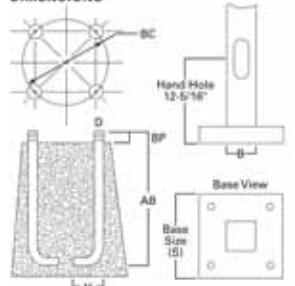
#### ORDERING INFORMATION

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"	A=0.120"	10-10'	S-Square Steel Base	F-Dark Bronze	2=2-3/8" O.D. Tenon (4" Long)	1=Single	X=None	A=1/2" Tapped Hub (Specify location desired)
	5-5"	M=0.158"	15-15'		G-Galvanized Steel	3=3-1/2" O.D. Tenon (6" Long)	2=2 @ 180°	X=None	B=3/4" Tapped Hub (Specify location desired)
	6-6"	K=0.250"	20-20'		J-Summit White	4=4" O.D. Tenon (8" Long)	3=Triple	X=None	C=Convenience Outlet <sup>2</sup>
			25-25'		K-Carbon Bronze	5=3" O.D. Tenon (4" Long)	4=4 at 90°	X=None	E=GFCI Convenience Outlet <sup>2</sup>
			30-30'	L-Dark Platinum	6=2-3/8" O.D. Tenon (6" Long)	5=2 at 90°	X=None	G=Ground Lug Hole <sup>4</sup>	
			35-35'	P-Primer Powder Coat	7=4" O.D. Tenon (10" Long)			H=Additional Hand Hole <sup>4</sup>	
			39-39'	R-Hartford Green				L=Drilled for Bumper Gitter	
				S-Silver	A=Type A Drilling			V=Vibration Damper	
				T-Graphite Metallic	C=Type C Drilling				
				V-Grey	E=Type E Drilling				
				W-White	F=Type F Drilling				
				X=Custom Color	J=Type J Drilling				
				Y-Black	K=Type K Drilling				
					M=Type M Drilling				
					R=Type R Drilling				
					Z=Type Z Drilling				

N=Type N Drilling

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 pendants 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 E.T.N

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#### GAN GALLEON LED

#### ORDERING INFORMATION

Product Family	Light Engine	Number of Light Squares	Lamp Type	Voltage	Distribution	Color	Mounting
GAN-Galleon	AE-1A Drive Current	03-1 03-2 03-3 04-4 06-6 07-7 08-8 09-9 10-10	LED-Solid State Light Emitting Diodes	UL-Universal (120-277V) ES-899V** 9-347V*	T2-Type II T2R-Type II Roadway T3-Type III T3R-Type III Roadway T4F-Type IV Forward Throw T4W-Type IV Wide SND-Type V Narrow SNDQ-Type V Square Medium SNDQW-Type V Square Wide SL2-Type II w/Spill Control SL3-Type II w/Spill Control SL4-Type IV w/Spill Control SLR-90° Spill Light Eliminator Left SLR-90° Spill Light Eliminator Right RW-Rectangular Wide Type I AFL-Automotive Frontline	AP-Grey BZ-Bronze TK-200K DP-Dark Platinum GM-Graphite Metallic WH-White	(Blank)-Arm for Round or Square Pole EA-Extended Arm* MA-Mast Arm Adapter* WM-Wall Mount
<b>Options (Add as Suffix)</b>				<b>Accessories (Order Separately)</b>			
2L=Two Circuits** 7030-70 CRI 3000K* 7060-70 CRI 6000K* 530-Drive Current Factory Set to 530mA* 700-Drive Current Factory Set to 700mA* 3=Three Position Terminal Block P=Button Type Photocontrol (120, 208, 240 or 277V) 4=NEMA Twistlock Photocontrol Receptacle 4NZ=NEMA 7 Pin Twistlock Photocontrol Receptacle HA-50°C High Ambient* MS-DIM-L08-Motion Sensor for Dimming Operation, Maximum 8' Mounting Height** MS-DIM-L20-Motion Sensor for Dimming Operation, 9'-20' Mounting Height** MS-DIM-L40-Motion Sensor for Dimming Operation, 21' - 40' Mounting Height** MS-K-L08-Si-Level Motion Sensor, Maximum 8' Mounting Height** MS-K-L20-Si-Level Motion Sensor, 9' - 20' Mounting Height** MS-K-L40-Si-Level Motion Sensor, 21' - 40' Mounting Height** DIMRF-LW-LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height** DIMRF-LN-LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height** L90-Optics Rotated 90° Left R90-Optics Rotated 90° Right MT-Factory Installed Mesh Top TH-Tool-less Door Hardware LDF-Light Square Trim Plate Painted to Match Housing HSS-Factory Installed House Side Shield**				OA/RA1016-NEMA Photocontrol Multi-Tap - 105-280V OA/RA1027-NEMA Photocontrol - 480V OA/RA1091-NEMA Photocontrol - 347V OA/RA1013-Photocontrol Shorting Cap OA/RA1014-120V Photocontrol SA1252-10kV Surge Module Replacement SA1036-XX-Single Tenon Adapter for 2-3/8" O.D. Tenon SA1037-XX-2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon SA1197-XX-3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon SA1198-XX-4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1199-XX-2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1191-XX-2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon SA1192-XX-3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1193-XX-4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon SA1194-XX-2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon SA1195-XX-3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSR-108-Wireless Configuration Tool for Occupancy Sensor* GAN-MT1-Field Installed Mesh Top for 1-4 Light Squares GAN-MT2-Field Installed Mesh Top for 5-8 Light Squares GAN-MT3-Field Installed Mesh Top for 7-8 Light Squares GA-MT4-Field Installed Mesh Top for 9-10 Light Squares LS/HSS-Field Installed House Side Shield**			

- NOTES:**
- DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
  - Standard 4000 CRI and maximum 90 CRI.
  - Requires the use of a step down transformer when combined with MS-DIM, MS-X or DIMRF.
  - 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.
  - May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to anti-mounting requirement table.
  - Factory installed.
  - UL is not available with MS-X or MS-DIM at 347V or 480V. UL in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06.
  - Not available with LumaWatt wireless sensors.
  - Use dedicated ES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
  - 1 Amp standard. Use dedicated ES files for 500mA and 700mA when performing layouts. These files are published on the Navion luminaire product page on the website.
  - Consult factory for more information.
  - Replace "L" with specific voltage.
  - The FSR-100 accessory is required to adjust parameters.
  - Not available with HX option.
  - Luminaire wireless sensors are factory installed only requiring network components to RF-GM-1, RF-GW-1 and RF-PDU-1 in appropriate quantities. See [www.eaton.com/lighting](http://www.eaton.com/lighting) for Luminaire application information.
  - System mounted externally. Available in 2, 3, 4 or 6 Light Square configurations. Replace "X" with number of Light Squares in low output mode. For ON/OFF operation, replace "X" with "0". Maximum has Light Squares in low output mode. Not available with dimming driver. No terminal block with hi-volt operation.
  - Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
  - Trim 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.
  - Our required for each Light Square.

Eaton  
1121 Highway 39 South  
Peachtree City, GA 30088  
P: 770-486-4000  
[www.eaton.com/lighting](http://www.eaton.com/lighting)  
Specifications and dimensions subject to change without notice.

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DRAWING  
8-25-15

LYONS ELECTRIC  
Since 1979

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SSS SQUARE STRAIGHT STEEL

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number 1	Wall Thickness (Inches)	Base Square 2 (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection 3 (Inches)	Shaft Size 4 (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) 5				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
Mt		S	BC	BP	B	D x AB x H							
10	SS5A10S	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	SS5A15S	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	SS5A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.8	150
25	SS5A25S	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	SS5A25S	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	SS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.3	6.0	3.5	1.6	200
25	SS5A25S	0.120	12-1/2	12-1/2	5	5	1 x 36 x 4	264	9.9	6.1	3.6	1.3	200
30	SS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	—	—	200
30	SS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	352	30.4	6.4	3.5	1.5	200
30	SS5A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	—	—	200
30	SS5M30S	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	SS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	—	—	200
35	SS5M35S	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	SS5X35S	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
35	SS5M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	—	—	300
35	SS5X35S	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 1	Wall Thickness (Inches)	Base Square 2 (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection 3 (Inches)	Shaft Size 4 (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) 5				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
Mt		S	BC	BP	B	D x AB x H							
10	SS5A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	13.5	14.0	11.0	100
15	SS5A15S	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	SS5A20S	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	SS5A20S	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	SS5A25S	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	SS5A25S	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	SS5A25S	0.120	12-1/2	12-1/2	5	5	1 x 36 x 4	264	9.1	5.9	3.0	1.4	200
30	SS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	—	—	—	200
30	SS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	352	9.8	5.9	1.9	0.2	200
30	SS5A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	—	—	200
30	SS5M30S	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	SS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	—	—	200
35	SS5M35S	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	SS5X35S	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
35	SS5M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	—	—	300
35	SS5X35S	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. Splice 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 E.T.N.

Eaton  
1905 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

Eaton's Cooper Lighting Business  
1121 Highway 38 South  
Peachtree City, GA 30093  
P. 770-486-4800  
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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2014-04-02 13:41:02

Streetworks

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 and UL/cUL Listed for wet locations.

Catalog #	GAN-AE-01-LED-U-T3-BZ	Type	OBa
Project	PDQ Washington Avenue	Date	8-25-15
Comments	56 Watt 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.

**Optics**  
 Patented, high-efficiency injection-molded AccuLED Optic technology. 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 70 CRI. Optional 6000K CCT and 3000K CCT.

**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. 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 assembly. Designed for pole or wall mounting. When mounting

two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole 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.

**Warranty**  
 Five-year warranty.



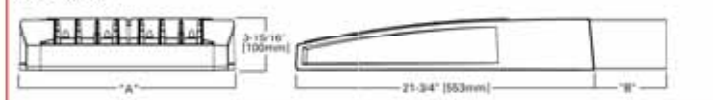
GAN  
GALLEON LED

1-10 Light Squares  
Solid State LED

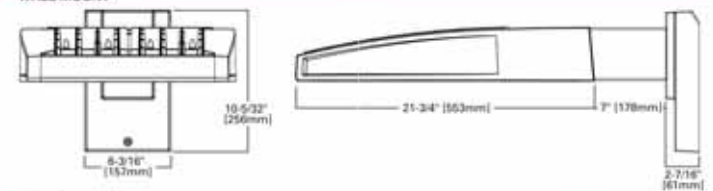
AREA / ROADWAY LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length 1	Weight with Arm (lbs.)	EPA with Arm 1 (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
3-6	21-5/8" (548mm)	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. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

E.T.N.  
Powering Business Worldwide

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)



TD500018EN  
2015-06-04 13:59:45

Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:

Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

CONTACT INFORMATION:

Mark Bealhen  
Main: (262)-646-6828  
Fax: (262)-646-6829

PROJECT NAME:

PDQ - SITE  
PHOTOMETRICS  
3520 East Washington Avenue  
Madison, WI

SHEET TITLE:

Photometric Site Plan  
Cut Sheets

DRAWN BY:  
KRK  
DATE DRAWN:  
5-26-15

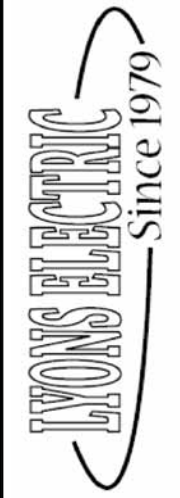
APPROVED BY:  
KRK

Sheet Of  
7 12

SHEET:  
ES106

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 CONTAINED IN THIS DRAWING SET.

SUBMITTAL  
DRAWING  
8-25-15



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Revisions		
No.	Description	Date

FIRM NAME AND ADDRESS:  
  
Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

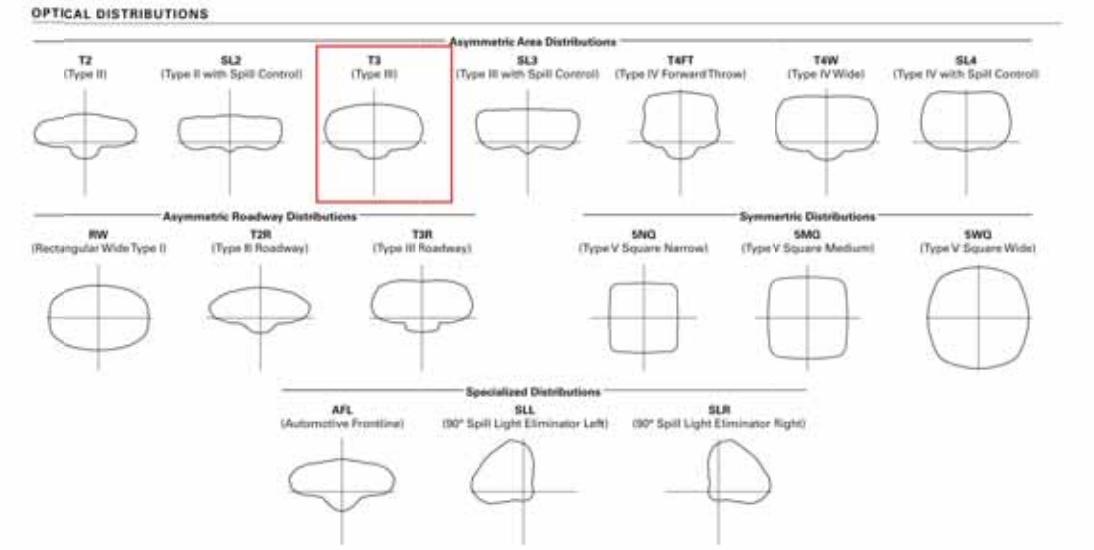
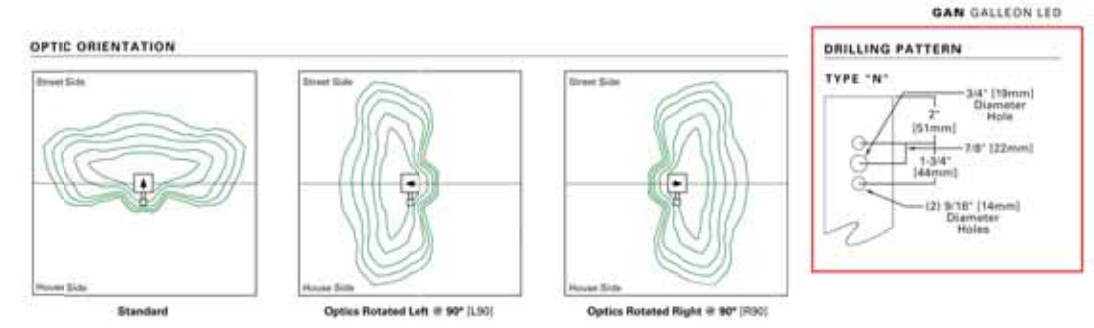
CONTACT INFORMATION:  
Mark Bealhen  
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PROJECT NAME:

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PHOTOMETRICS  
  
3520 East Washington Avenue  
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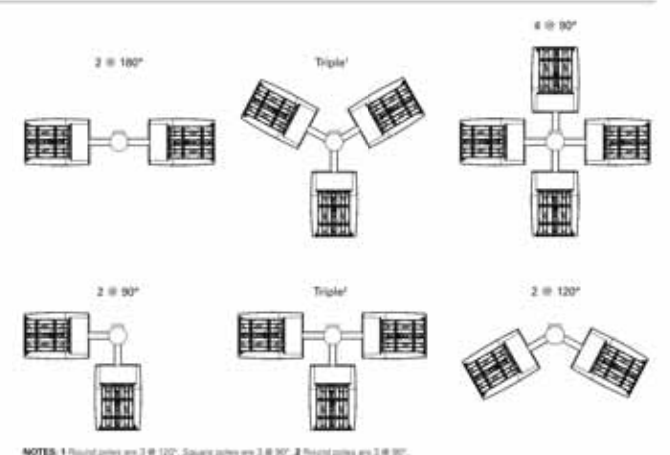
SHEET TITLE:	
Photometric Site Plan Cut Sheets	
DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
8	12
SHEET: <b>ES107</b>	

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 DRAWING SET.



**ARM MOUNTING REQUIREMENTS**

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



**EATON** Lighting Business Worldwide  
1121 Highway 98 South  
Peachtree City, GA 30269  
P: 770-486-4000  
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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2015-06-04 13:53:45

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

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Current	1A	1A	1A	1A	1A	1A	1A	1A	1A	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	1.78	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**

Optics	Lumens	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	15,699	20,704	25,652	30,697	36,200	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	5,893	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,900
	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	51,090
	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	30,068	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	30,690	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-G5	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
SNQ	Lumens	5,542	10,830	16,100	21,352	26,455	31,858	37,439	42,421	47,330	52,380
	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
SMQ	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
SWG	Lumens	5,858	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	13,787	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	26,218	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	9,312	16,771	24,072	31,236	38,311	45,498	52,736	60,191	67,060	74,107
	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**

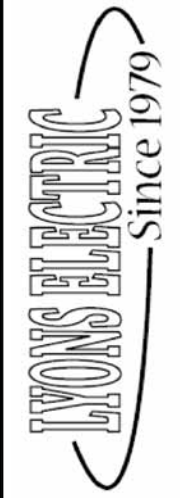
Ambient Temperature	T8-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

**EATON** Lighting Business Worldwide  
1121 Highway 98 South  
Peachtree City, GA 30269  
P: 770-486-4000  
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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SUBMITTAL  
DRAWING  
8-25-15



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Revisions		
No.	Description	Date

FIRM NAME AND ADDRESS:  
  
Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

CONTACT INFORMATION:  
Mark Bealhen  
Main: (262)-646-6828  
Fax: (262)-646-6829

PROJECT NAME:  
  
PDQ - SITE  
PHOTOMETRICS  
  
3520 East Washington Avenue  
Madison, WI

SHEET TITLE:	
Photometric Site Plan Cut Sheets	
DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
9	12

SHEET:  
**ES108**

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 DRAWING SET.

### COOPER LIGHTING

Catalog #	SSS4A20SFN1XG	Type	OBa
Project	PDQ Washington Avenue	Date	8-25-15
Comments	Single Head Pole		
Prepared by	KRK		

- 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)



SSS SQUARE STRAIGHT STEEL

#### ORDERING INFORMATION

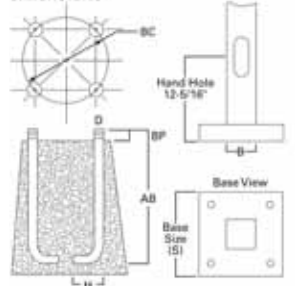
SAMPLE NUMBER: SSS5A20SFN1XG

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"	A=0.120"	10-10'	S-Square Steel Base	F=Dark Bronze	2=2-3/8" O.D. Tenon (4" Long)	1=Single	X=None	A=1/2" Tapped Hub (Specify location desired)
	5-5"	W=0.108"	15-15'		G=Galvanized Steel	3=3-1/2" O.D. Tenon (5" Long)	2=2 @ 180°		B=3/4" Tapped Hub (Specify location desired)
	6-6"	X=0.250"	20-20'		J=Summit White	4=4" O.D. Tenon (6" Long)	3=Triple <sup>2</sup>		C=Convenience Outlet <sup>3</sup>
			25-25'	K=Carbon Bronze	5=3" O.D. Tenon (4" Long)	4=4 at 90°		E=GFCI Convenience Outlet <sup>4</sup>	
			25-25'	L=Dark Platinum	6=2-3/8" O.D. Tenon (6" Long)	5=2 at 90°		G=Ground Lug	
			30-30'	P=Primer Powder Coat	7=4" O.D. Tenon (10" Long)	X=None		H=Additional Hand Hole <sup>5</sup>	
			35-35'	R=Hartford Green	A=Type A Drilling			I=Drilled for Bumper Gitter	
			39-39'	S=Silver	G=Type G Drilling			V=Vibration Damper	
				T=Graphite Metallic	E=Type E Drilling				
				W=White	F=Type F Drilling				
				X=Custom Color	J=Type J Drilling				
				Y=Black	K=Type K Drilling				
					M=Type M Drilling				
					R=Type R Drilling				
					Z=Type Z Drilling				

N=Type N Drilling

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

ADH130483  
2014-04-02 13:41:02

#### GAN GALLEON LED

#### ORDERING INFORMATION

Sample Number: GAN-AE-04-LED-U-T3R-02

Product Family <sup>1</sup>	Light Engine	Number of Light Squares <sup>2</sup>	Lamp Type	Voltage	Distribution	Color	Mounting
GAN-Galleon	AE-1A Drive Current	02-1 02-2 03-3 04-4 06-6 07-7 08-8 09-9 10-10	LED-Solid State Light Emitting Diodes	Universal (120-277V) 347V <sup>3</sup> 347V <sup>4</sup>	T2=Type II T2B=Type II Roadway T3=Type III T3B=Type III Roadway T4F=Type IV Forward Throw T4W=Type IV Wide SNG=Type V Narrow SMQ=Type V Square Medium SWG=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLR=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Gray 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>					<b>Accessories (Order Separately):</b>		
2L=Two Circuits <sup>14</sup> 7000-70 CRI 3000K <sup>4</sup> 7000-70 CRI 6000K <sup>4</sup> 530=Drive Current Factory Set to 530mA <sup>4</sup> 700=Drive Current Factory Set to 700mA <sup>4</sup> 3=Three-Position Terminal Block P=Button Type Photocontrol (120, 208, 240 or 277V) 4=NEMA Twistlock Photocontrol Receptacle 4N7=NEMA 7 Pin Twistlock Photocontrol Receptacle HA=50°C High Ambient <sup>4</sup> MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>14, 14, 14</sup> MS/DIM-L20=Motion Sensor for Dimming Operation, 9'-20' Mounting Height <sup>14, 14, 14</sup> MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>14, 14, 14</sup> MS/K-L08-Si=Level Motion Sensor, Maximum 8' Mounting Height <sup>14, 14, 14</sup> MS/K-L20-Si=Level Motion Sensor, 9' - 20' Mounting Height <sup>14, 14, 14</sup> MS/K-L40-Si=Level Motion Sensor, 21' - 40' Mounting Height <sup>14, 14, 14</sup> DIMF-LW=LuminaWatt Wireless Sensor, Wide Lens for 8' - 10' Mounting Height <sup>14</sup> DIMF-LN=LuminaWatt Wireless Sensor, Narrow Lens for 18' - 40' Mounting Height <sup>14</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 HSS=Factory Installed House Side Shield <sup>14</sup>					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-280V OA/RA1027=NEMA Photocontrol - 480V OA/RA1021=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol SA1252=10kV Surge Module Replacement SA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon SA1037-XX-2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon SA1197-XX-3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon SA1188-XX-4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1189-XX-2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1190-XX-3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1191-XX-2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon SA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon SA1039-XX-2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon SA1192-XX-3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon SA1193-XX-4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon SA1194-XX-2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon SA1195-XX-3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSR-106=Wireless Configuration Tool for Occupancy Sensor <sup>14</sup> GAN-MT1=Field Installed Mesh Top for 1-4 Light Squares GAN-MT2=Field Installed Mesh Top for 7-8 Light Squares GAN-MT3=Field Installed Mesh Top for 9-10 Light Squares GA-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield <sup>14</sup>		

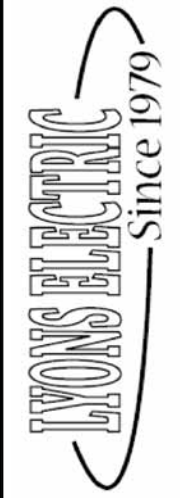
- NOTES:**
1. DesignLights Consortium<sup>®</sup> Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
  2. Standard 4000K CCT and maximum 30 CRI.
  3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMF.
  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 mounted on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
  6. Factory installed.
  7. If not available with 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.
  8. Not available with LuminaWatt wireless sensors.
  9. Use dedicated ES file for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
  10. 1 Amp standard. Use dedicated ES files for 530mA and 700mA when performing layouts. These files are published on the Navion luminaire product page on the website.
  11. Consult factory for more information.
  12. Reduce "L" with specific voltage.
  13. The FSR-106 accessory is required to adjust parameters.
  14. Not available with HA option.
  15. Luminaire sensor sensors are factory installed only. Requiring sensor computers to be installed on-site and that a 10' minimum mounting height is required for luminaire operation into luminaire.
  16. Sensor mounted externally. Available in 2, 3, 4 or 6 Light Square configurations. Replace "X" with number of Light Squares in low output mode. For ON/OFF operation, replace "X" with "0". Maximum two Light Squares in low output mode. Not available with dimming driver. No terminal block with 2-level operation.
  17. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
  18. 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.
  19. One required for each Light Square.

EATON  
Powering Business Worldwide

Eaton  
1121 Highway 39 South  
Peachtree City, GA 30269  
P: 770-466-4000  
[www.eaton.com/lighting](http://www.eaton.com/lighting)  
Specifications and dimensions subject to change without notice.

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SUBMITTAL  
DRAWING  
8-25-15



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SSS SQUARE STRAIGHT STEEL

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number 1, 2	Wall Thickness (Inches)	Base Square 1 (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection 1 (Inches)	Shaft Size 1 (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) 1				Max. Fixture Load - Includes Bracket (Pounds)
									60 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H		60 mph	90 mph	100 mph	110 mph	
10	SS5A19S	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	SS5A15S	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	SS5A20S	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
25	SS5A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150
25	SS5A25S	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	SS5A25S	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	SS5A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.6	1.3	200
30	SS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	-	-	200
30	SS5M30S	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	SS5A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	-	-	200
30	SS5M30S	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	SS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	-	-	200
35	SS5M35S	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	SS5X35S	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	SS5M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	-	-	300
39	SS5X39S	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 1, 2	Wall Thickness (Inches)	Base Square 1 (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection 1 (Inches)	Shaft Size 1 (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) 1				Max. Fixture Load - Includes Bracket (Pounds)
									60 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H		60 mph	90 mph	100 mph	110 mph	
10	SS5A19S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	22.0	12.5	14.0	11.0	100
15	SS5A15S	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	SS5A20S	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	SS5A20S	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	SS5A25S	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	SS5A25S	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	SS5A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.0	3.0	1.2	200
30	SS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	-	-	-	200
30	SS5M30S	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	SS5A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	-	-	200
30	SS5M30S	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	SS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	-	-	200
35	SS5M35S	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	SS5X35S	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	SS5M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	-	-	300
39	SS5X39S	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. EFM's based on shaft properties with wind normal to flat. EFM's calculated using base wind velocity as indicated plus 30% gust factor.

**Cooper Lighting** by E.T.N.  
Eaton 1000 Eaton Boulevard Cleveland, OH 44122 United States Eaton.com  
Eaton's Cooper Lighting Business 1121 Highway 98 South Rockcreek City, GA 30086 P. 770-486-4000 www.cooperlighting.com  
Specifications and dimensions subject to change without notice.  
ADH130493 2014-04-02 13:41:02

LED CANOPY LIGHT - LEGACY™ (CRUS)



AC distribution utilizes a reflector which alters the look from a standard S distribution

DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit [www.lightingfacts.com](http://www.lightingfacts.com) for specific catalog strings.

**US & Int'l. patents pending.**

**HOUSING** - Low profile, durable die-cast, aluminum construction, providing a reliable weather-tight seal.

**LEDS** - Features an array of select, mid-power, high brightness, high efficiency LED chips; 5000K color temperature, 70 CRI (nominal).

**DRIVE CURRENT** - Choice of Very Low Wattage (VLW), Low Wattage (LW) or Super Saver (SS).

**OPTICS / DISTRIBUTION** - Choice of Symmetrical or Asymmetrical, which directs light through a clear tempered glass lens, to provide a uniform distribution of light to vertical and horizontal surfaces.

**OPTICAL UNIT** - Features an ultra-slim 7/8" profile die-cast housing, with a flat glass lens. Unit is water-resistant, sealed to an IP67 rating. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.

**PRESSURE STABILIZING VENT** - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

**HAZARDOUS LOCATION** - Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 only when properly installed per LSI installation instructions (consult factory).

**DRIVER** - State-of-the-art driver technology superior energy efficiency and optimum light output. Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.

**DRIVER HOUSING** - Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and contributes to attaining the lowest operating temperatures available. Seals to optical housing via one-piece molded silicone gasket.

**OPERATING TEMPERATURE** - -40°C to 50°C (-40°F to +122°F)

**ELECTRICAL** - Universal voltage power supply, 120-277 VAC, 50/60 HZ input. Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C.

**FINISH** - Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.

**INSTALLATION** - One person installation. No additional sealant required. Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit. Retro panels are available for existing Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

**SHIPPING WEIGHT** - 27 pounds (single pack), 48 pounds (double pack).

**EXPECTED LIFE** - Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

**WARRANTY** - Limited 5-year warranty.

**LISTING** - UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.

**PHOTOMETRICS** - Please visit our web site at [www.lsi-industries.com](http://www.lsi-industries.com) for detailed photometric data.

Consult Factory

**Class 1, Division 2** - Standard on SS & LW.  
**T5 Temperature Classification** - The surface temperature of this product will not rise above 100°C., within a 40°C ambient.

**Gas Groups A, B, C, and D** - Group A: Acetylene / Group B: Hydrogen / Group C: Propane and Ethylene / Group D: Benzene, Butane, Methane & Propane.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



LSI Industries Project Name PDQ Washington Avenue Fixture Type OCa 01/12/15  
Catalog # CRUS-SC-LED-SS-CW-UE-WHT © 2014 LSI INDUSTRIES, INC.

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Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:  
Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

CONTACT INFORMATION:  
Mark Bealhen  
Main: (262)-646-6828  
Fax: (262)-646-6829

PROJECT NAME:  
PDQ - SITE  
PHOTOMETRICS  
3520 East Washington Avenue  
Madison, WI

SHEET TITLE:  
Photometric Site Plan  
Cut Sheets

DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
10	12
SHEET: ES109	

SUBMITTAL  
DRAWING  
8-25-15

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Since 1979

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## LED CANOPY LIGHT - LEGACY™ (CRUS)



### LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **CRUS SC LED SS CW UE WHT**

Prefix	Distribution <sup>1</sup>	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
CRUS	SC - Standard Symmetric AC - Asymmetric	LED	V LW - Very Low Watt LW - Low Watt SS - Super Saver	CW - Cool White	UE - Universal Voltage (120-277V) 347 - 480V	WHT - White BRZ - Bronze BLK - Black	None

#### FOOTNOTES:

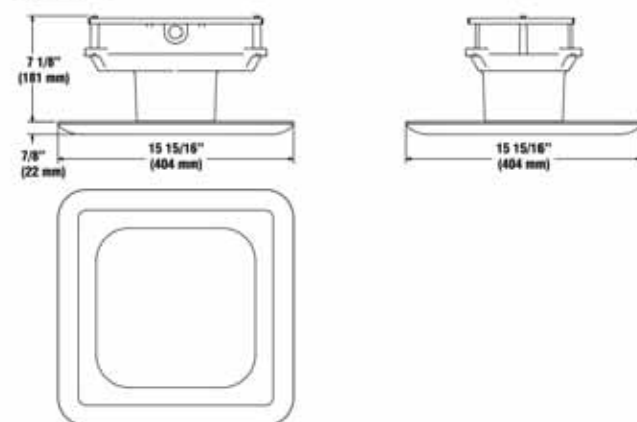
1- AC distribution utilizes a reflector which alters the look from a standard S distribution.

### ACCESSORY ORDERING INFORMATION

(Accessories are field installed)

Description	Order Number	Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRU, for 16" Deck Panel	525946	Kit - Hole Plugs and Silicone (enough for 25 retrofits) <sup>1</sup>	1300540
Retrofit Panels - ECTA / SCF to CRU, for 12" Deck Panel	530281	1- Consists of (25) 7/8" hole plugs and (1) 10.3 oz tube of RTV	
Retrofit 2x2 Cover Panel Blank (no holes)	357282		
Retrofit RIG Cover Panel Blank (no holes)	354702		

### DIMENSIONS



### LIGHT OUTPUT - CRUS

		Lumens		Watts		LPW	
		SC	AC	SC	AC	SC	AC
Cool White	V LW - Very Low Watt	8,642	-	79	-	112	-
	LW - Low Watt	10,871	8746	88	83	124	105
	SS - Super Saver	13,554	11,518	114	111	119	104



Project Name PDQ Washington Avenue Fixture Type OCa 01/12/15  
 Catalog # CRUS-SC-LED-SS-CW-UE-WHT © 2014 LSI INDUSTRIES INC

### DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaires provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

### SPECIFICATION FEATURES

**Construction**  
Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 7W and 18W. The large housing is available in the 26W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

**Optical**  
Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Solid state LED Crosstour luminaires are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

**Electrical**  
LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 7W models operate in -40°C to 40°C [-40°F to 104°F]. 18W and 26W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 90% of initial

light output after 72,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

**Finish**  
Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

**Warranty**  
Five-year warranty.

## Lumark

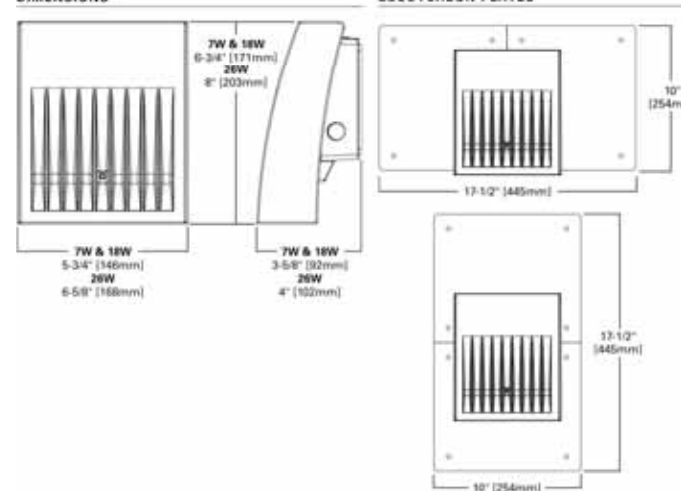
Catalog #	XTOR2A	Type	OWa
Project	PDQ Washington Avenue	Date	8-25-15
Comments	LED Wall Pack		
Prepared by	KRK		



### XTOR CROSSTOUR LED

APPLICATIONS:  
WALL / SURFACE  
POST / BOLLARD  
LOW LEVEL  
FLOODLIGHT  
INVERTED  
SITE LIGHTING

### DIMENSIONS



**CERTIFICATION DATA**  
UL/cUL Wet Location Listed  
LM79 / LM80 Compliant  
RoHS Compliant  
ADA Compliant  
NOM Compliant Models  
IP66 Ingress Protection Rated  
Title 24 Compliant  
DesignLights Consortium® Qualified\*

**TECHNICAL DATA**  
40°C Maximum Ambient Temperature  
External Supply Wiring 90°C Minimum

**EPA**  
Effective Projected Area (Sq. Ft.):  
XTOR1A/XTOR2A=0.34  
XTOR3A=0.45

**SHIPPING DATA:**  
Approximate Net Weight:  
3.7 - 5.25 lbs. (1.7 - 2.4 kgs.)



\*www.designlights.org

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### Revisions

No.	Description	Date

### FIRM NAME AND ADDRESS:

Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

### CONTACT INFORMATION:

Mark Bealhen  
Main: (262)-646-6828  
Fax: (262)-646-6829

### PROJECT NAME:

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PHOTOMETRICS

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Photometric Site Plan  
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DRAWN BY: KRK  
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Sheet Of

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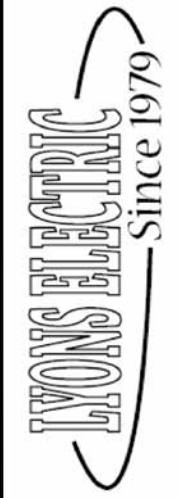
### SHEET:

ES110

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DRAWING  
8-25-15



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**XTOR CROSS TOUR LED**

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
<b>XTOR1A Model</b>		
25°C	> 92%	> 290,000
40°C	> 92%	> 290,000
50°C	> 91%	> 270,000
<b>XTOR2A Model</b>		
25°C	> 91%	> 270,000
40°C	> 90%	> 260,000
50°C	> 88%	> 225,000
<b>XTOR3A Model</b>		
25°C	> 91%	> 280,000
40°C	> 91%	> 270,000
50°C	> 89%	> 240,000

**LUMENS - CRI/CCT TABLE**

LED Information	XTOR1A	XTOR2A	XTOR2A-N	XTOR3A	XTOR3A-N
Delivered Lumens (Wall Mount)	722	1,633	1,523	2,804	2,284
Delivered Lumens (With Flood Accessory Kit) *	468	1,060	976	2,168	1,738
B.U.G. Rating †	B0-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0
CCT (Kelvin)	5,000	5,000	3,500	5,000	3,500
CRI (Color Rendering Index)	85	85	70	85	70
Power Consumption (Watts)	7W	18W	18W	26W	26W

NOTES: 1 Includes shield and view; 2 B.U.G. Rating does not apply to floodlighting.

**CURRENT DRAW**

Voltage	Model Series		
	XTOR1A	XTOR2A	XTOR3A
120V	0.05A	0.15A	0.22A
208V	0.03A	0.08A	0.13A
240V	0.03A	0.07A	0.11A
277V	0.03A	0.06A	0.10A
347V	0.025A	0.058A	0.082A

**ORDERING INFORMATION**

Sample Number: XTOR2A-N-WT-PC1

Series †	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1A=Small Door, 7W XTOR2A=Small Door, 18W XTOR3A=Small Door, 26W	[Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K †	[Blank]=Carbon Bronze (Standard) WT=Summit White	PC1=Photocontrol 120V † PC2=Photocontrol 208-277V † † 347V=347V † HA=50°C High Ambient †	WG/XTOR=Wire Guard † XTORFLD-KNC=Knuckle Floodlight Kit † XTORFLD-TRN=Trunion Floodlight Kit † XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White † XTORFLD-TRN-WT=Trunion Floodlight Kit, Summit White † EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 XTOR1A not available in 3500K. 3 Photocontrols are factory installed. 4 Order PC2 for 347V models. 5 Thru-branch wiring not available with HA option or with 347V. 6 Wire guard for wall surface mount. Not for use with floodlight kit accessory. 7 Floodlight kit accessory supplied with knuckle (KNC) or trunion (TRN) base, small and large top views and small and large angled shields.

**STOCK ORDERING INFORMATION**

7W Series	18W Series	26W Series
XTOR1A=7W, 5000K, Carbon Bronze	XTOR2A=18W, 5000K, Carbon Bronze	XTOR3A=26W, 5000K, Carbon Bronze
XTOR1A-WT=7W, 5000K, Summit White	XTOR2A-N=18W, 3500K, Carbon Bronze	XTOR3A-N=26W, 3500K, Carbon Bronze
XTOR1A-PC1=7W, 5000K, 120V PC, Carbon Bronze	XTOR2A-WT=18W, Summit White	XTOR3A-WT=26W, Summit White
	XTOR2A-PC1=18W, 120V PC, Carbon Bronze	XTOR3A-PC1=26W, 120V PC, Carbon Bronze

**5-DAY QUICK SHIP ORDERING INFORMATION**

7W Series	18W Series	26W Series
XTOR1A-WT-PC1=7W, 5000K, Summit White, 120V PC	XTOR2A-PC2=18W, 5000K, 208-277V PC, Carbon Bronze	XTOR3A-PC2=26W, 5000K, 208-277V PC, Carbon Bronze
	XTOR2A-WT-PC1=18W, 5000K, Summit White, 120V PC	XTOR3A-WT-PC1=26W, 5000K, Summit White, 120V PC
	XTOR2A-WT-PC2=18W, 5000K, Summit White, 208-277V PC	XTOR3A-WT-PC2=26W, 5000K, Summit White, 208-277V PC
	XTOR2A-N-WT=18W, 3500K, Summit White	XTOR3A-N-WT=26W, 3500K, Summit White
	XTOR2A-N-PC1=18W, 3500K, 120V PC, Carbon Bronze	XTOR3A-N-PC1=26W, 3500K, 120V PC, Carbon Bronze
	XTOR2A-N-PC2=18W, 3500K, 208-277V PC, Carbon Bronze	XTOR3A-N-PC2=26W, 3500K, 208-277V PC, Carbon Bronze
	XTOR2A-N-WHT-PC1=18W, 3500K, Summit White, 120V PC	XTOR3A-N-WHT-PC1=26W, 3500K, Summit White, 120V PC
	XTOR2A-N-WT-PC2=18W, 3500K, Summit White, 208-277V PC	XTOR3A-N-WT-PC2=26W, 3500K, Summit White, 208-277V PC



Eaton  
1121 Highway B South  
Buckeye City, GA 30288  
P: 770-486-4800  
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD514013EN  
2015-05-29 11:34:51

**Revisions**

No.	Description	Date

**FIRM NAME AND ADDRESS:**

Lyons Electric  
75 Enterprise Rd.  
Delafield, WI 53018

**CONTACT INFORMATION:**

Mark Bealhen  
Main: (262)-646-6828  
Fax: (262)-646-6829

**PROJECT NAME:**

PDQ - SITE  
PHOTOMETRICS

3520 East Washington Avenue  
Madison, WI

**SHEET TITLE:**

Photometric Site Plan  
Cut Sheets

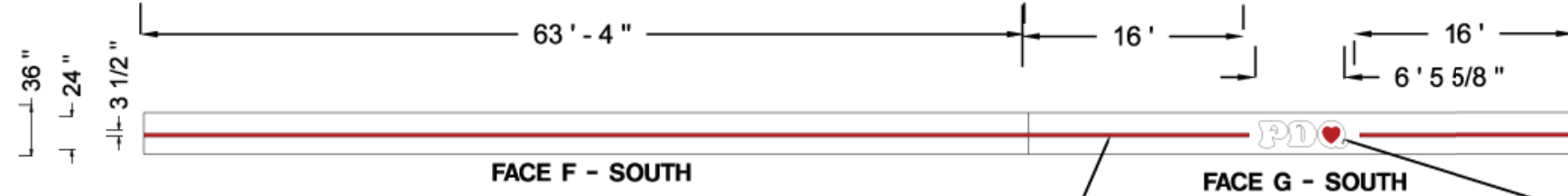
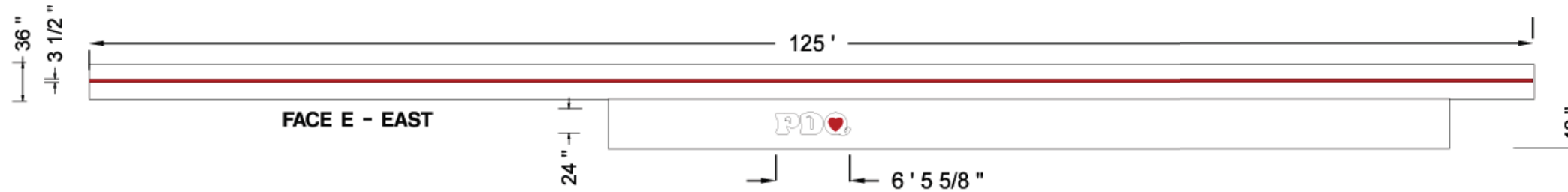
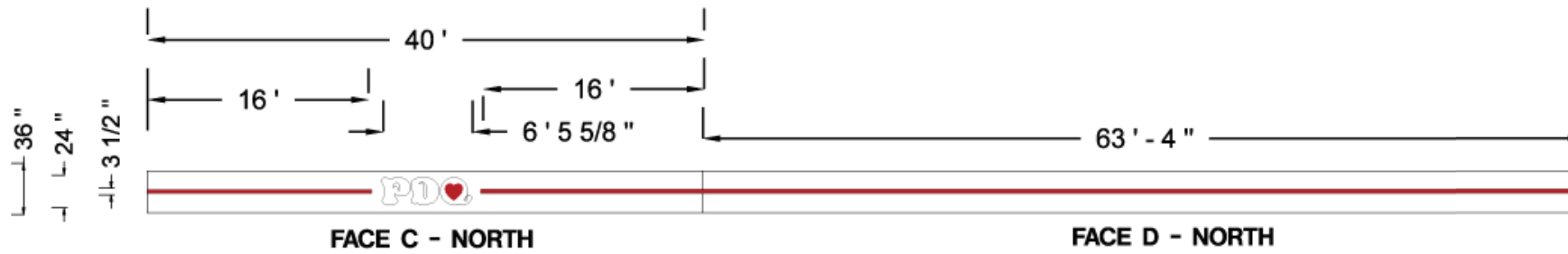
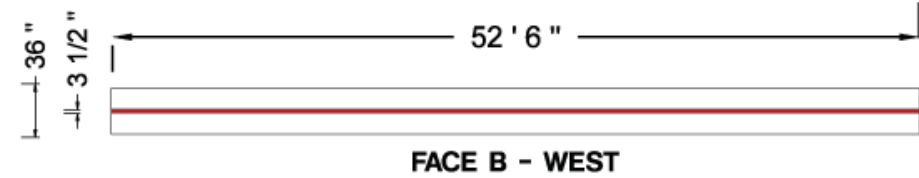
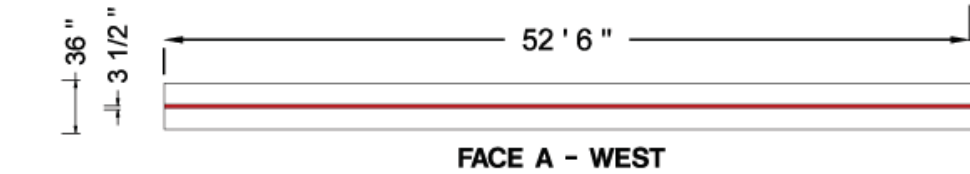
DRAWN BY: KRK	APPROVED BY:
DATE DRAWN: 5-26-15	KRK

Sheet Of  
**1212**

SHEET:  
**ES111**

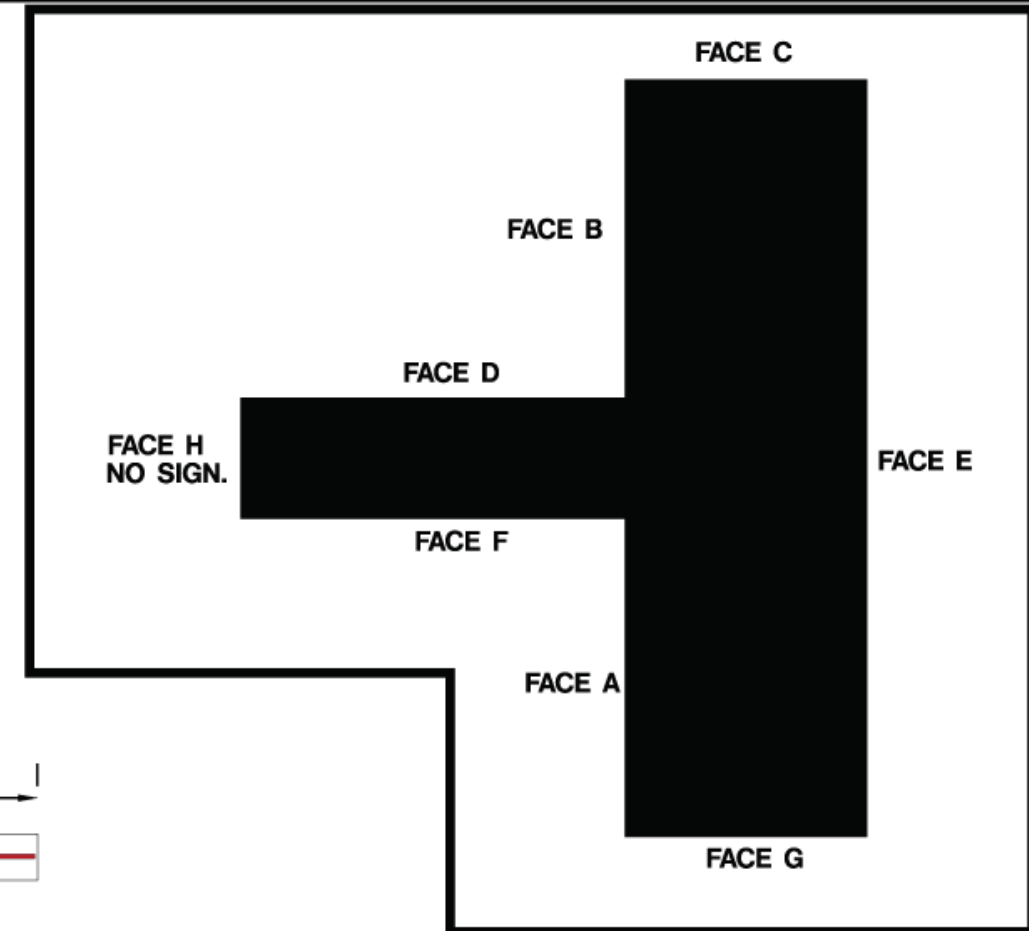
LYONS ELECTRIC IS NOT LIABLE OR HELD RESPONSIBLE FOR THE INSTALL ASSOCIATED WITH THIS DRAWING SET. THE INSTALLING ELECTRICAL CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR A FULLY CODE COMPLIANT ELECTRICAL SYSTEM REGARDLESS OF THE INFORMATION FOUND IN THIS DRAWINGS SET.

**DESCRIPTIVE TITLE** VARIOUS SIGNS.



LED LIGHT BAR.

FRONT LIT CHANNEL LETTERS.  
 FACES: WHITE ACRYLIC. HEART  
 PORTION IS RED TRANSLUCENT VINYL.  
 TRIM: BLACK.  
 RETURNS. BLACK.  
 ALL ILLUMINATED WITH WHITE  
 LEDS.



**SPECIFICATION NOTES**

**A WALL SIGNS.**

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

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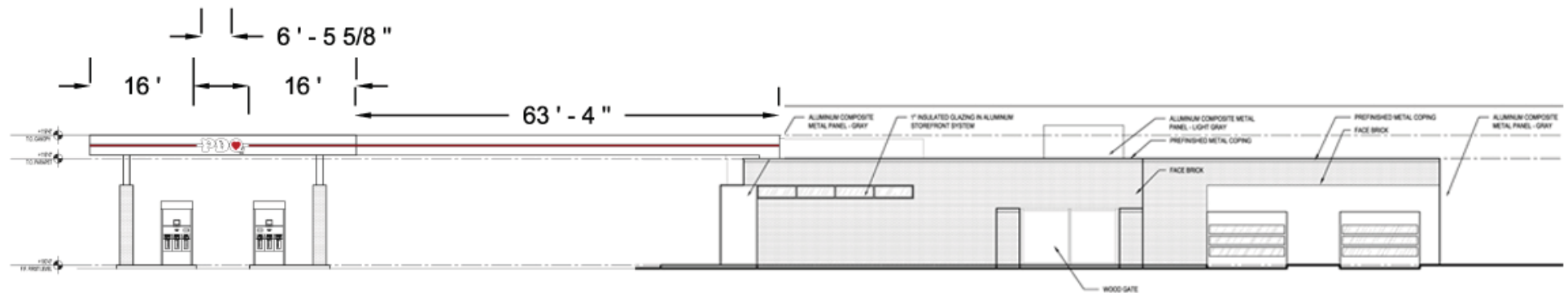
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Drawing by: <b>MICHAEL V JOLIN</b>		Job Name: <b>PDQeasWasWall</b>		Revision Number: <b>REVISION #1.0</b>	
Sign Type: <b>VARIOUS SIGNS.</b>		Job Address: <b>3520 EAST WASHINGTON MADISON WI, 53718</b>		Job File Location:	
Date Created: <b>5/21/2015</b>		Salesperson: <b>BILL RUPP</b>			
Last Modified: <b>5/21/2015</b>		Job Number: <b>#5173</b>			
Scale:					

**LA CROSSE SIGN CO.**  
*MAKE A STATEMENT!*  
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 2242 Mustang Way • Madison, WI 53718 • 608-222-5353  
 2502 Melby Street • Eau Claire, WI 54703 • 715-835-6189

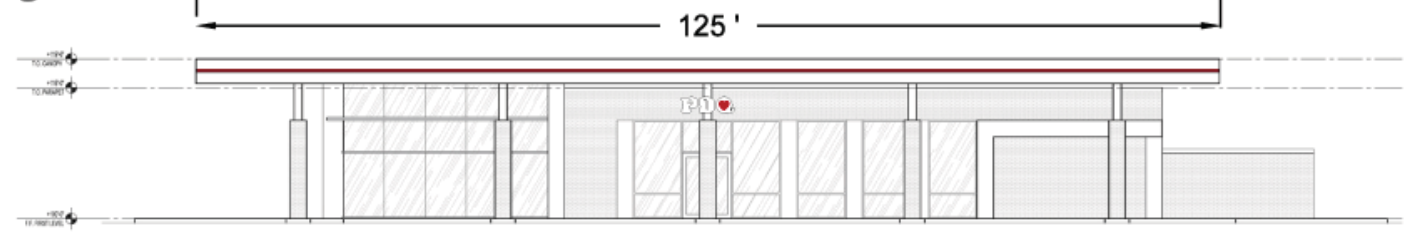
\*COLORS ON SKETCH ARE ONLY A REPRESENTATION. ACTUAL COLOR OF FINISHED PRODUCT MAY DIFFER

**DESCRIPTIVE TITLE** VARIOUS SIGNS.

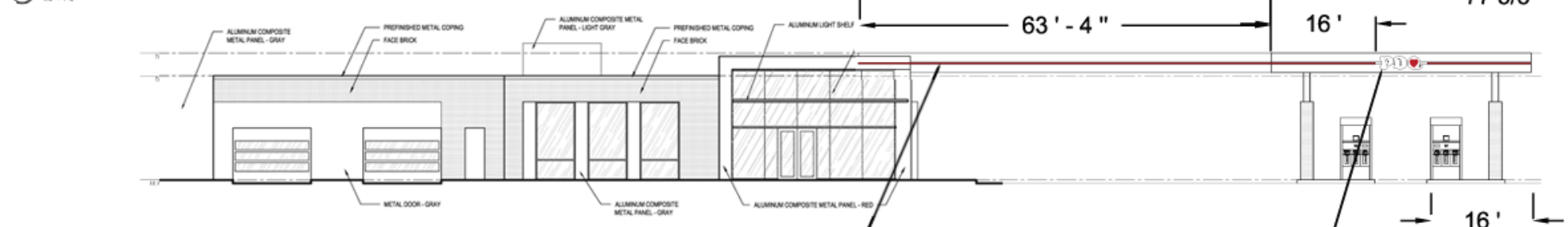
± 36" CANOPY HEIGHT.  
 ± 24" LOGO HEIGHT, ± 24"  
 ± 3 1/2" LED BAR.



1 NORTH ELEVATION - RIDGEWAY AVE  
 1/8" = 1'-0"



2 EAST ELEVATION - SCHEDEMAN AVE  
 1/8" = 1'-0"



3 SOUTH ELEVATION - EAST WASHINGTON AVE  
 1/8" = 1'-0"

± 3 1/2" LED BAR.  
 ± 24" LOGO HEIGHT.  
 ± 36" CANOPY HEIGHT.

LED LIGHT BAR.  
 FRONT LIT CHANNEL LETTERS.  
 FACES: WHITE ACRYLIC. HEART  
 PORTION IS RED TRANSLUCENT VINYL.  
 TRIM: BLACK.  
 RETURNS. BLACK.  
 ALL ILLUMINATED WITH WHITE  
 LEDS.

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

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DESIGN	SALES	FILE	COLOR KEY
Drawing by: <b>MICHAEL V JOLIN</b>	Job Name: <b>PDQeasWasWall</b>	Revision Number: <b>REVISION #1.0</b>	*COLORS ON SKETCH ARE ONLY A REPRESENTATION. ACTUAL COLOR OF FINISHED PRODUCT MAY DIFFER
Sign Type: <b>VARIOUS SIGNS.</b>	Job <b>3520 EAST WASHINGTON</b> Address: <b>MADISON WI, 53718</b>	Job File Location:	
Date Created: <b>5/21/2015</b>	Salesperson: <b>BILL RUPP</b>		
Last Modified: <b>5/21/2015</b>	Job Number: <b>#5173</b>		
Scale:			

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**DESCRIPTIVE TITLE** GROUND SIGN.



SIDE VIEW.



NIGHT VIEW.

- SPECIFICATION NOTES**
- A** DOUBLE FACED ILLUMINATED GROUND SIGN.
  - B** WHITE POLYCARB FACE WITH 1 COLOR RED TRANSLUCENT VINYL.
  - C** CABINET PAINTED BLACK.
  - D** REVELS PAINTED GREY.
  - E** RED LED BAR.
  - F** WHITE POLYCARB FACES WITH 2 COLORS RED AND GREEN TRANSLUCENT VINYL.
  - G** 21" X 81" RED MONOCHROME MESSAGE CENTER.
  - H** WHITE POLYCARB FACE WITH 2 COLORS RED AND BLACK TRANSLUCENT VINYL.
  - I** FORMED ALUMINUM CAP PAINTED GREY.
  - J** BRICK BLOCK BASE.
- SIGN IS ALL ILLUMINATED WITH WHITE LEDS.

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

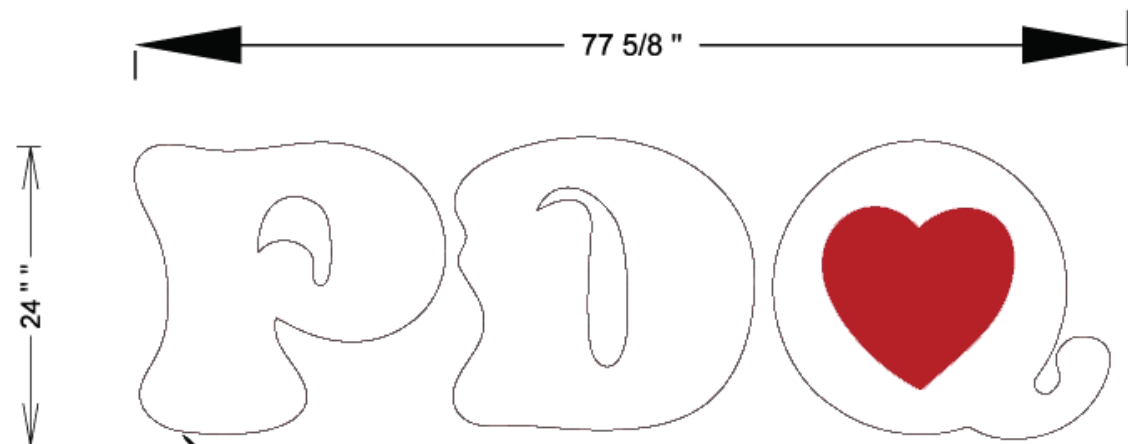
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DESIGN		SALES		FILE	COLOR KEY
Drawing by: MICHAEL V JOLIN		Job Name: PDQEasWasGro		Revision Number: REVISION #1.0	
Sign Type: GROUND SIGN.		Job Address: 3520 EAST WAHSHINGTON AVENUE MADISON WI, 53718		Job File Location:	
Date Created: 5/22/2015		Salesperson: BILL RUPP			
Last Modified: 5/22/2015		Job Number: #85173			
Scale:					

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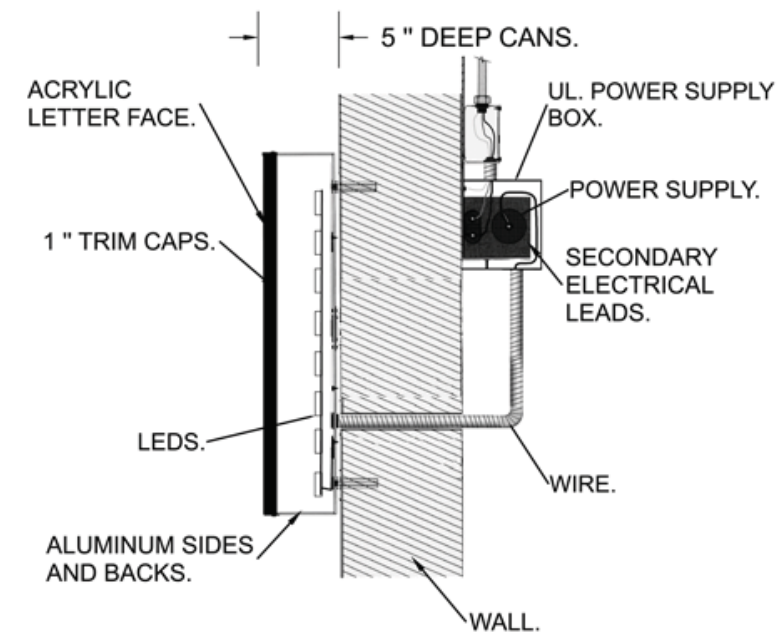
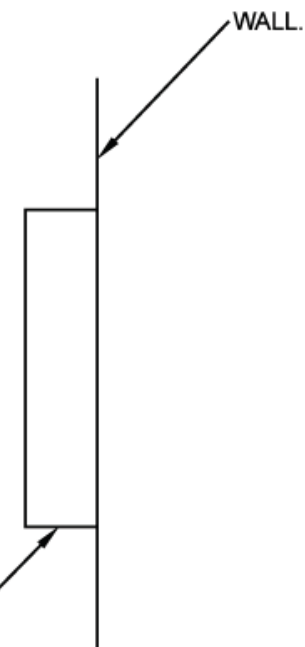
\*COLORS ON SKETCH ARE ONLY A REPRESENTATION. ACTUAL COLOR OF FINISHED PRODUCT MAY DIFFER

ALL 3 WALL SIGNS ARE THE SAME SIZE.



FRONT LIT CHANNEL LETTERS.  
 FACES: WHITE ACRYLIC. HEART  
 PORTION IS RED TRANSLUCENT VINYL.  
 TRIM: BLACK.  
 RETURNS: BLACK.  
 ALL ILLUMINATED WITH WHITE  
 LEDS.

LOGO CHANNEL LETTER.



NIGHT VIEW.

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

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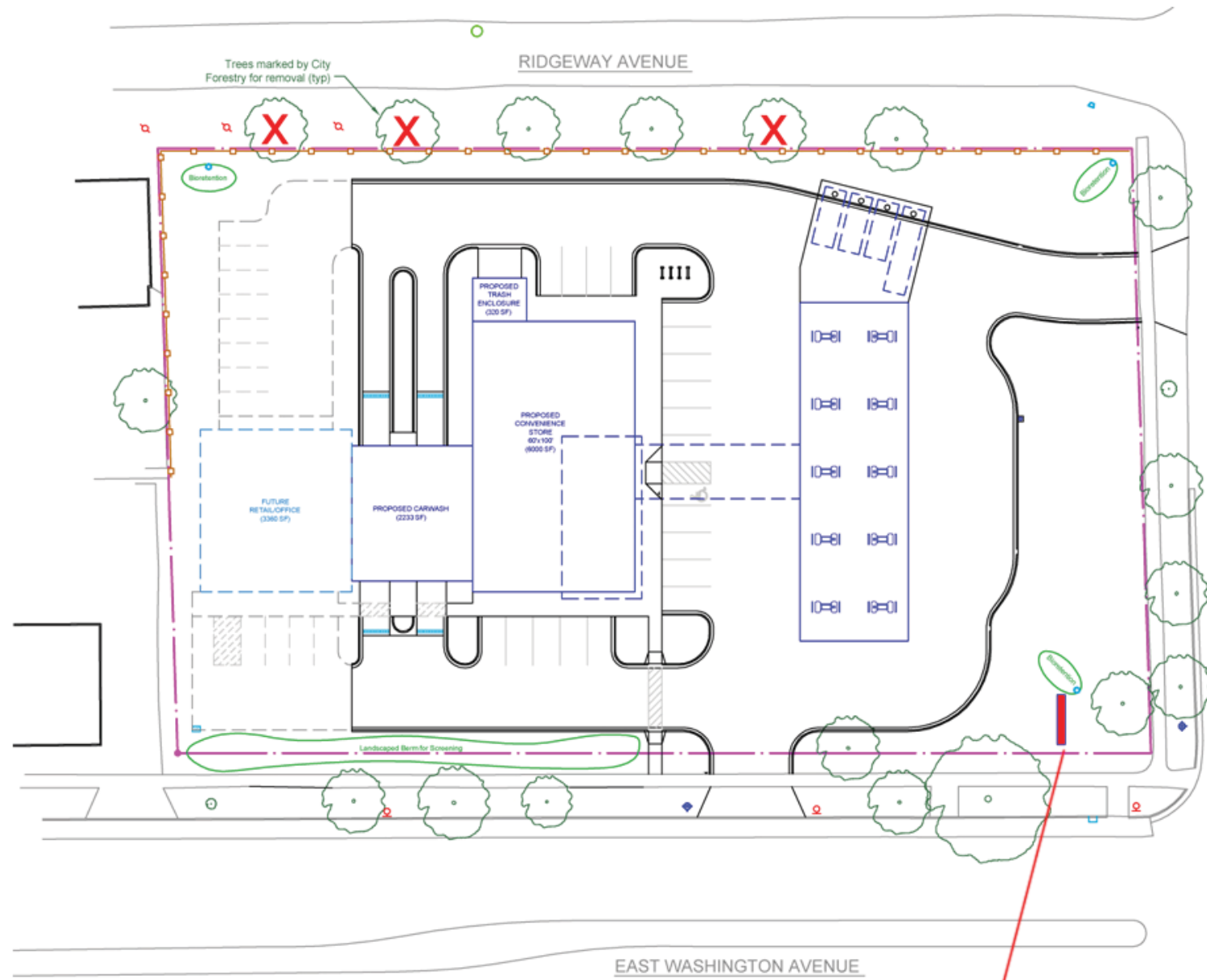


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DESIGN	SALES	FILE	COLOR KEY
Drawing by: <b>MICHAEL V JOLIN</b>	Job Name: <b>PDQeasWasWall</b>	Revision Number: <b>REVISION #1.0</b>	
Sign Type: <b>VARIOUS SIGNS.</b>	Job <b>3520 EAST WASHINGTON</b> Address: <b>MADISON WI, 53718</b>	Job File Location:	
Date Created: <b>5/21/2015</b>	Salesperson: <b>BILL RUPP</b>		
Last Modified: <b>5/21/2015</b>	Job Number: <b>#5173</b>		
Scale:			

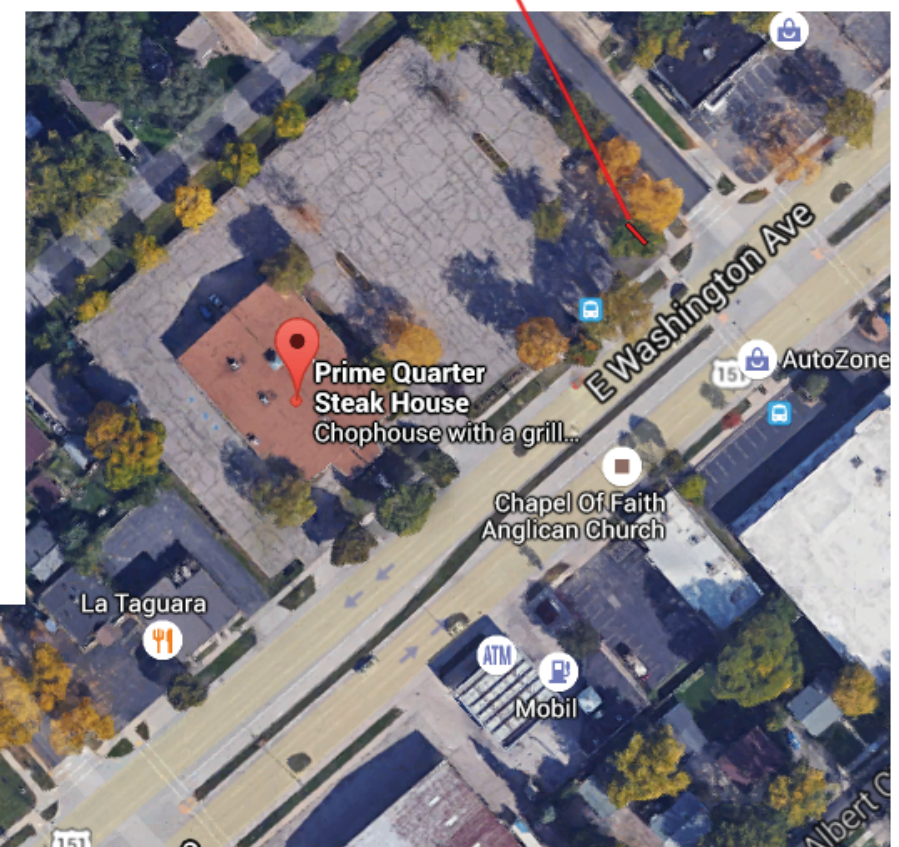
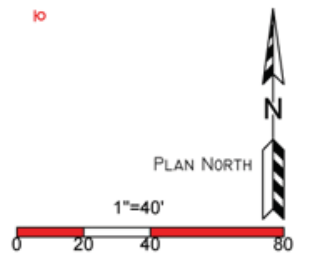
\*COLORS ON SKETCH ARE ONLY A REPRESENTATION. ACTUAL COLOR OF FINISHED PRODUCT MAY DIFFER

**DESCRIPTIVE TITLE** VARIOUS SIGNS.



**GROUND SIGN HERE.**

**GROUND SIGN HERE.**



Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

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DESIGN	SALES	FILE	COLOR KEY
Drawing by: <b>MICHAEL V JOLIN</b>	Job Name: <b>PDQeasWasWall</b>	Revision Number: <b>REVISION #1.0</b>	
Sign Type: <b>VARIOUS SIGNS.</b>	Job Address: <b>3520 EAST WASHINGTON MADISON WI, 53718</b>	Job File Location:	
Date Created: <b>5/21/2015</b>	Salesperson: <b>BILL RUPP</b>		
Last Modified: <b>5/21/2015</b>	Job Number: <b>#5173</b>		
Scale:			

\*COLORS ON SKETCH ARE ONLY A REPRESENTATION. ACTUAL COLOR OF FINISHED PRODUCT MAY DIFFER

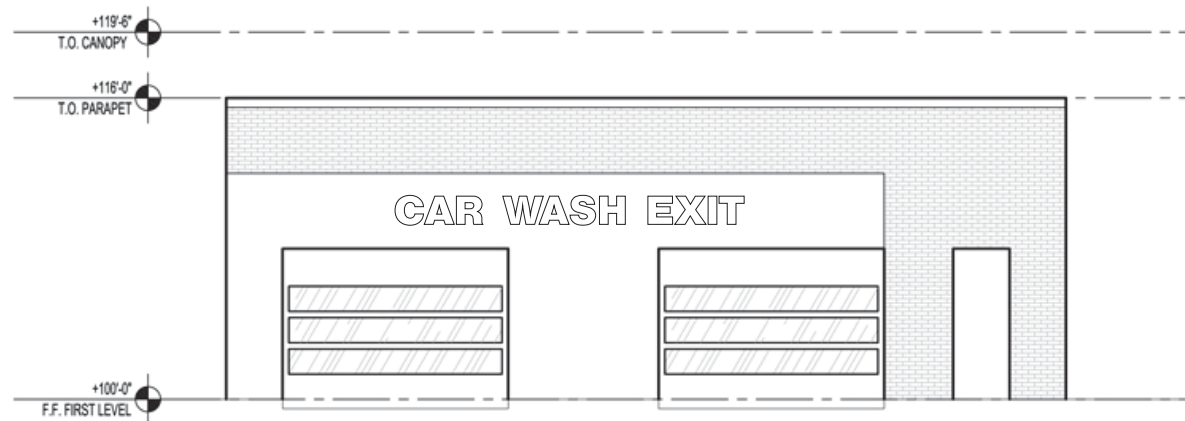
**SPECIFICATION NOTES**

**A WALL SIGNS.**

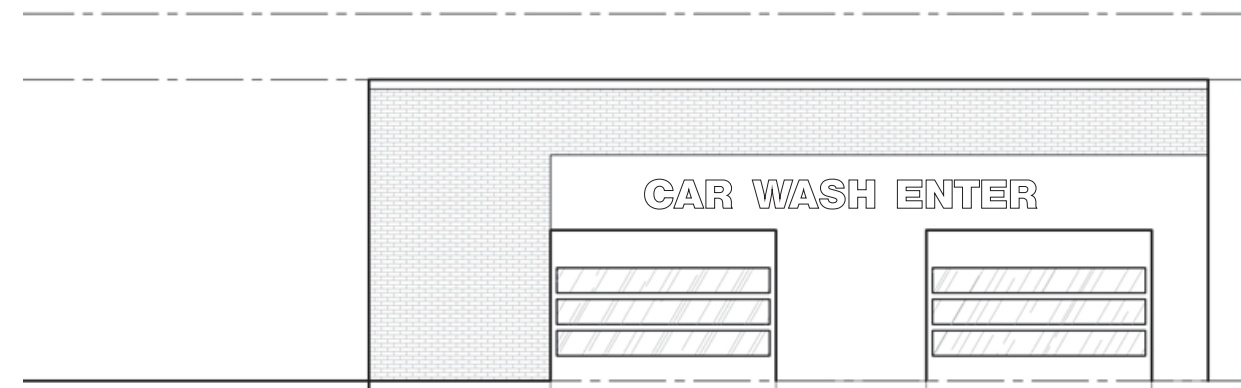
20' - 10"  
**CAR WASH ENTER**  
 18"

18' - 7"  
**CAR WASH EXIT**  
 18"

FRONT LIT CHANNEL LETTERS.  
 FACES: WHITE ACRYLIC.  
 TRIM: BLACK.  
 RETURNS: BLACK.  
 ILLUMINATED WITH WHITE LEDS.



**3 SOUTH ELEVATION - EAST WASHINGTON AVE**  
 1/8" = 1'-0"



**1 NORTH ELEVATION - RIDGEWAY AVE**  
 1/8" = 1'-0"

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Landlord: \_\_\_\_\_ Date: \_\_\_\_\_

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DESIGN	SALES	FILE	COLOR KEY
Drawing by: <b>MICHAEL V JOLIN</b>	Job Name: <b>PDQeasWasWall</b>	Revision Number: <b>REVISION #1.0</b>	*COLORS ON SKETCH ARE ONLY A REPRESENTATION. ACTUAL COLOR OF FINISHED PRODUCT MAY DIFFER
Sign Type: <b>VARIOUS SIGNS.</b>	Job <b>3520 EAST WASHINGTON</b> Address: <b>MADISON WI, 53718</b>	Job File Location:	
Date Created: <b>5/26/2015</b>	Salesperson: <b>BILL RUPP</b>		
Last Modified: <b>5/26/2015</b>	Job Number: <b>#5173</b>		
Scale:			