## **URBAN DESIGN COMMISSION APPLICATION**



City of Madison **Planning Division** Madison Municipal Building, Suite 017



FOR OFFICE USE ONLY: Paid Receipt # 215 Martin Luther King, Jr. Blvd. Date received P.O. Box 2985 Madison, WI 53701-2985 Received by (608) 266-4635 Aldermanic District Zoning District Complete all sections of this application, including Urban Design District \_\_\_\_\_ the desired meeting date and the action requested. If you need an interpreter, translator, materials in alternate Submittal reviewed by \_\_\_\_\_ formats or other accommodations to access these forms, please call the phone number above immediately. Legistar # 1. Project Information 622 & 624 West Washington Avenue West Washington Place Title: 2. Application Type (check all that apply) and Requested Date January 15, 2020 UDC meeting date requested New development ☐ Alteration to an existing or previously-approved development Informational ☐ Initial approval Final approval 3. Project Type Project in an Urban Design District Signage Project in the Downtown Core District (DC), Urban Comprehensive Design Review (CDR) Mixed-Use District (UMX), or Mixed-Use Center District (MXC) Signage Variance (i.e. modification of signage height, Project in the Suburban Employment Center District (SEC). area, and setback) Campus Institutional District (CI), or Employment Campus Other District (EC) □ Please specify ☐ Planned Development (PD) ☐ General Development Plan (GDP) □ Specific Implementation Plan (SIP) Planned Multi-Use Site or Residential Building Complex 4. Applicant, Agent, and Property Owner Information Company Plunkett Raysich Architects, LLP Kirk Keller Applicant name City/State/Zip Madison, WI 53718 2310 Crossroads Drive, Suite 2000 Street address Email kkeller@prarch.com 608-240-9900 Telephone Project contact person Kirk Keller Company Plunkett Raysich Architects, LLP City/State/Zip Madison, WI 53718 2310 Crossroads Drive, Suite 2000 Street address Email kkeller@prarch.com 608-240-9900 Telephone Greenway Real Estate LLC Property owner (if not applicant)

City/State/Zip McFarland, WI 53558

Email garyshmerler@gmail.com

2292 County Hwy. AB

608-516-4313

Street address

Telephone

Each submittal must include

fourteen (14) 11" x 17" collated

paper copies. Landscape and

Lighting plans (if required)

must be full-sized and legible.

Please refrain from using

plastic covers or spiral binding.

#### 5. Required Submittal Materials

- Application Form
- ✓ Letter of Intent
  - If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
  - For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.
- Development plans (Refer to checklist on Page 4 for plan details)

☐ Filing fee

## ☑ Electronic Submittal\*

Both the paper copies and electronic copies <u>must</u> be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be legible when reduced.

\*Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to <a href="mailto:udcapplications@cityofmadison.com">udcapplications@cityofmadison.com</a>. The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.

### 6. Applicant Declarations

- Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design
  Commission staff. This application was discussed with Matt Tucker and others on
  April 15, 2019 UDC Informational Presentation on Wednesday, October 2
- 2. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of applicant Kirk Keller

Authorizing signature of property owner \_\_\_\_\_\_\_ Date \_\_\_\_\_ December 18, 2019

#### 7. Application Filing Fees

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than \$1,000.

Please consult the schedule below for the appropriate fee for your request:

- ☐ Urban Design Districts: \$350 (per §35.24(6) MGO).
- ☐ Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX): \$150 (per §33.24(6)(b) MGO)
- Comprehensive Design Review: \$500 (per §31.041(3)(d)(1)(a) MGO)
- ☐ Minor Alteration to a Comprehensive Sign Plan: \$100 (per §31.041(3)(d)(1)(c) MGO)
- □ All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: \$300 (per §31.041(3)(d)(2) MGO)

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

- Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Residential Building Complex

December 18, 2019

City of Madison Plan Commission City of Madison Urban Design Commission 215 Martin Luther King, Jr. Blvd Madison, WI 53703

## LETTER OF INTENT – 636 W. Washington Avenue

#### **Commission Members:**

The owner of 636 West Washington Ave is proposing the demolition of existing improvements and construction of a new mixed-use project. The 33,100 square foot site is currently improved with a gas station and 2<sup>nd</sup> floor office space. The proposed 5-story redevelopment will include 51 apartment units, approximately 7,500 square feet of commercial space, and two-levels of underground parking containing 70 parking stalls. The proposed project is in full compliance with the existing zoning of Urban Mixed-Use and all applicable Design Standards, including compliance with the Downtown Stepback Map. A concurrently submitted application for a Certified Survey Map will combine the existing, underlying lots into a single mapped lot.

## The mix of apartment types will be as follows:

 Studios:
 7 (14%)

 One-Bedroom:
 25 (49%)

 Two-Bedroom:
 15 (29%)

 Three-Bedroom:
 4 (8%)

Five of the 5<sup>th</sup> floor units will have lofts and private roof top patios.

## Building amenities will include:

- 5<sup>th</sup> floor community room and outdoor patio space
- Tenant exercise room
- Ample tenant storage
- Interior bike storage and maintenance area
- Interior trash room and garbage chute
- Tenant lobby with large package storage and refrigerated storage for grocery delivery
- In-building pet wash area and exterior dog-walk area

## **Building Details:**

- 5-stories (exterior will include a combination of brick, stone, and cementitious siding)
- 110,000 gross square feet (including underground parking area)
- 70 underground parking stalls
- 13 exterior parking stalls
- Energy efficient HVAC equipment, LED lighting, solar ready construction

## Project Schedule:

• Demolition: Spring of 2020

• Construction: Late Spring of 2020 (12-month duration)

• Opening: May 1, 2021



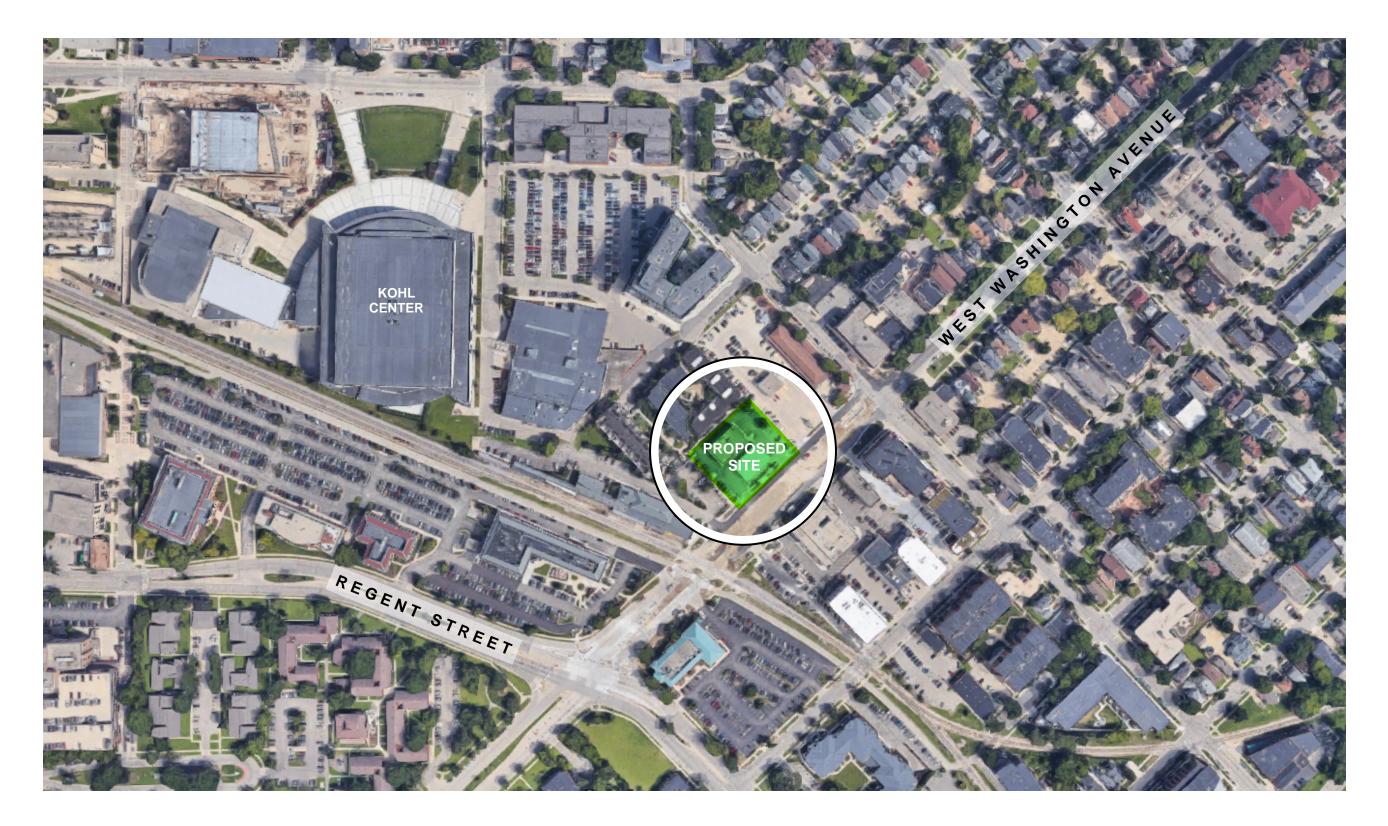
636 West Washington Ave Madison Wisconsin 53703

# West Washington Place UDC Final Submittal

December 18, 2019













View of building directly adjacent and Southwest of Site.



View of Site from West Washington, looking Northeast.



View of Site from West Corner, looking Northeast.



View of Site from West Washington, looking West.



View of West Corner of Site.



View of canopy, Southern portion of site.







View of building directly across West Washington.



View of buildings across West Washington to the Northeast.



View of building directly Northeast of Site.



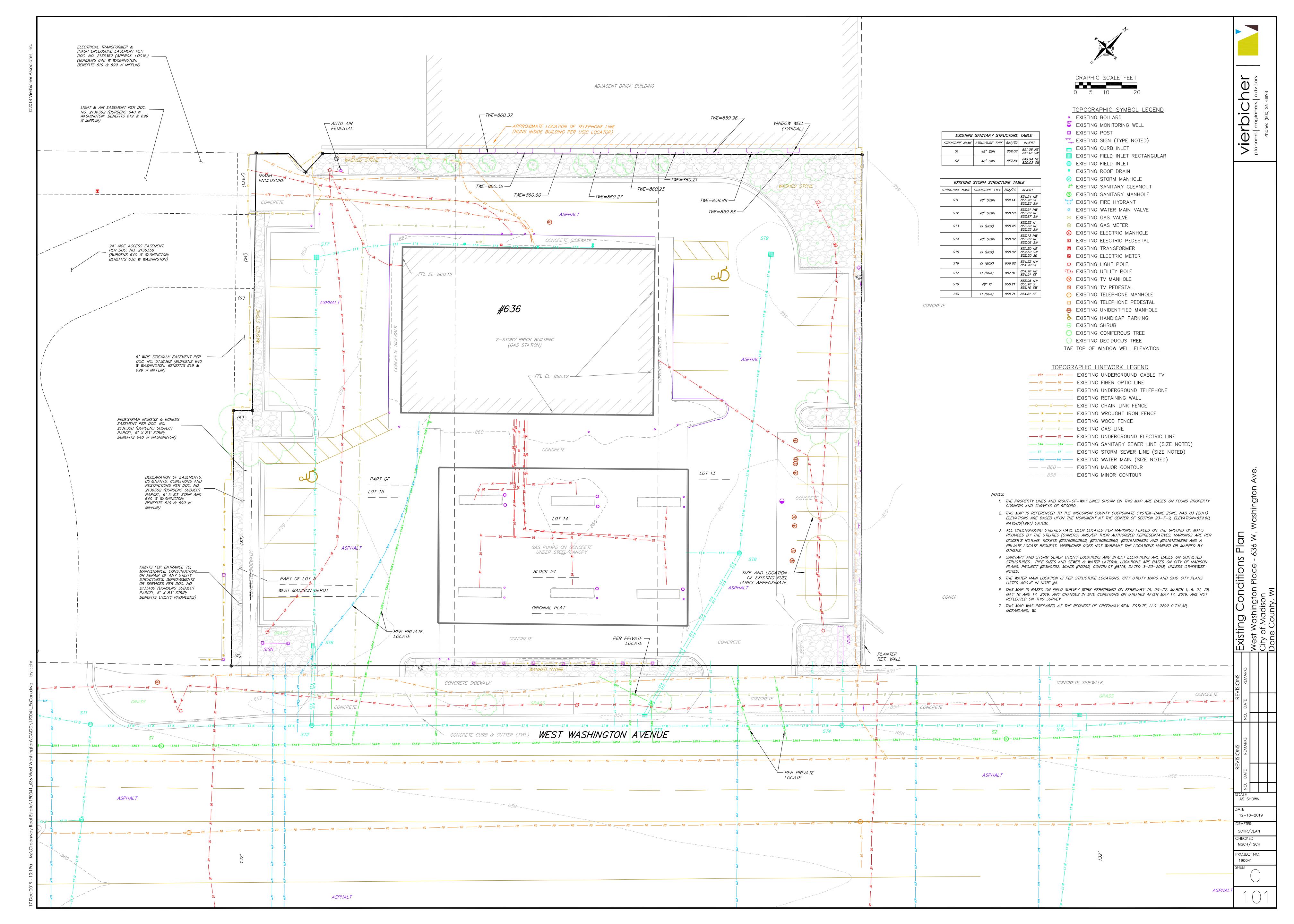
View of building at Corner of Washington and Bedford.

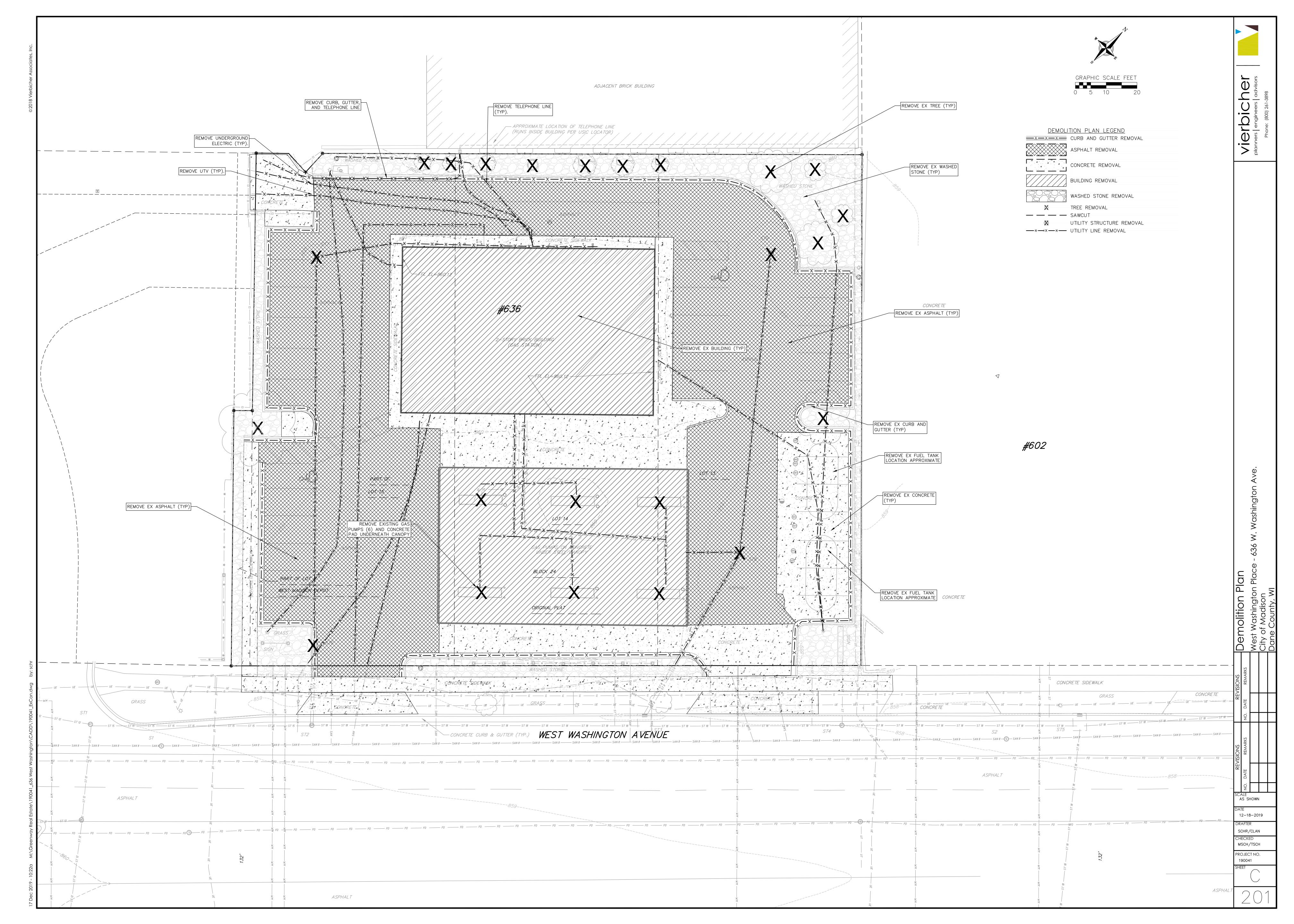


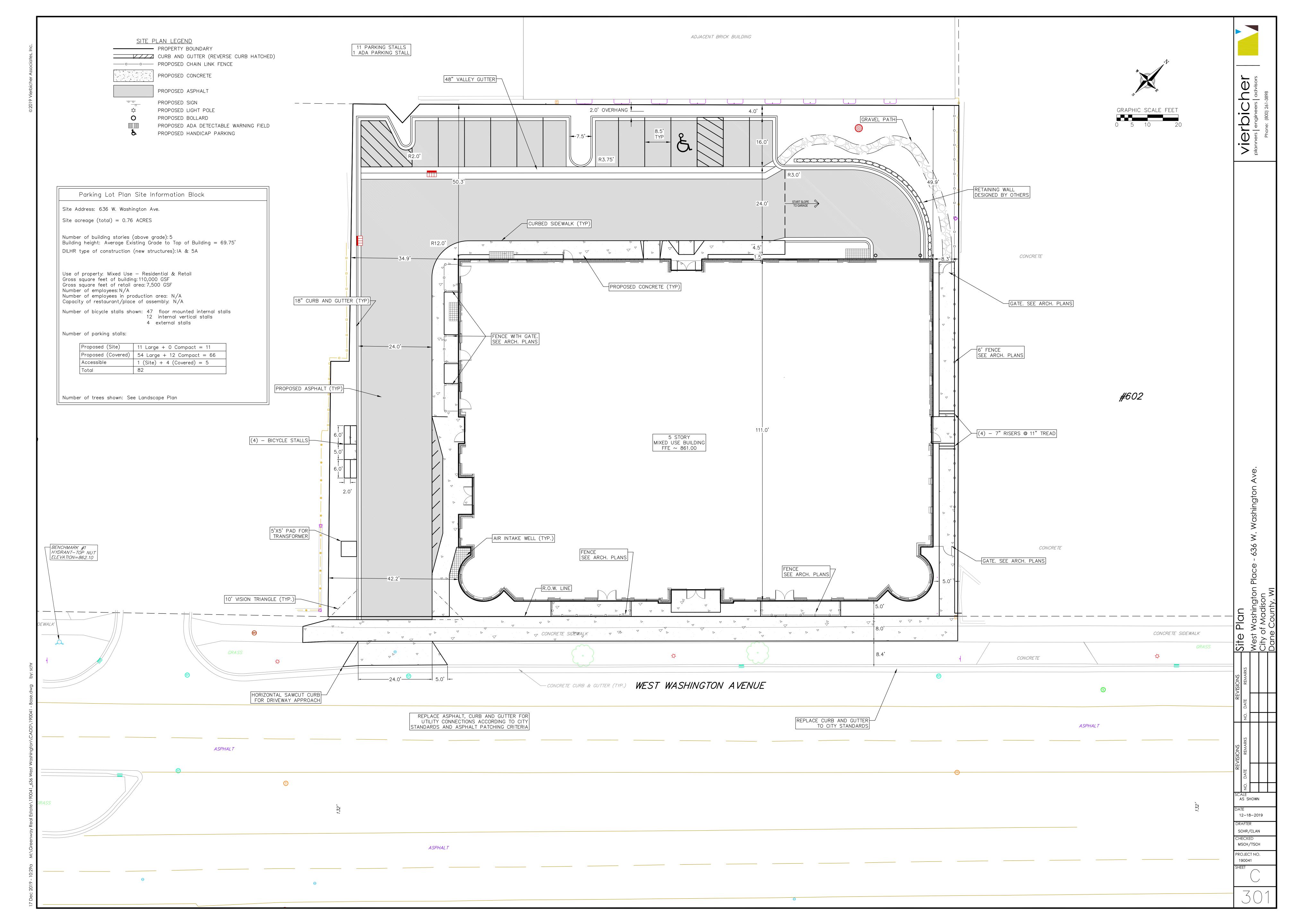
View of building directly behind site to Northeast.

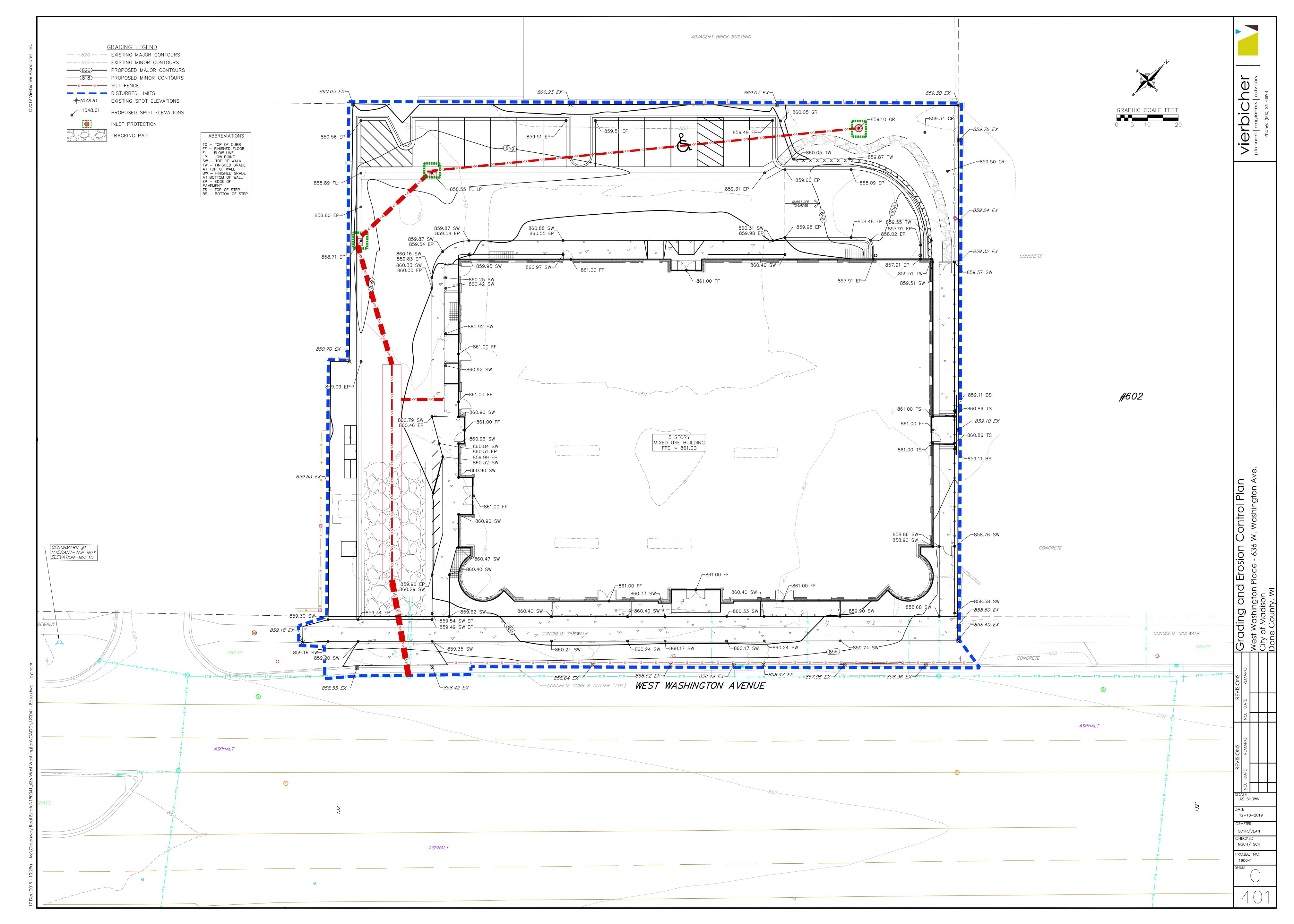


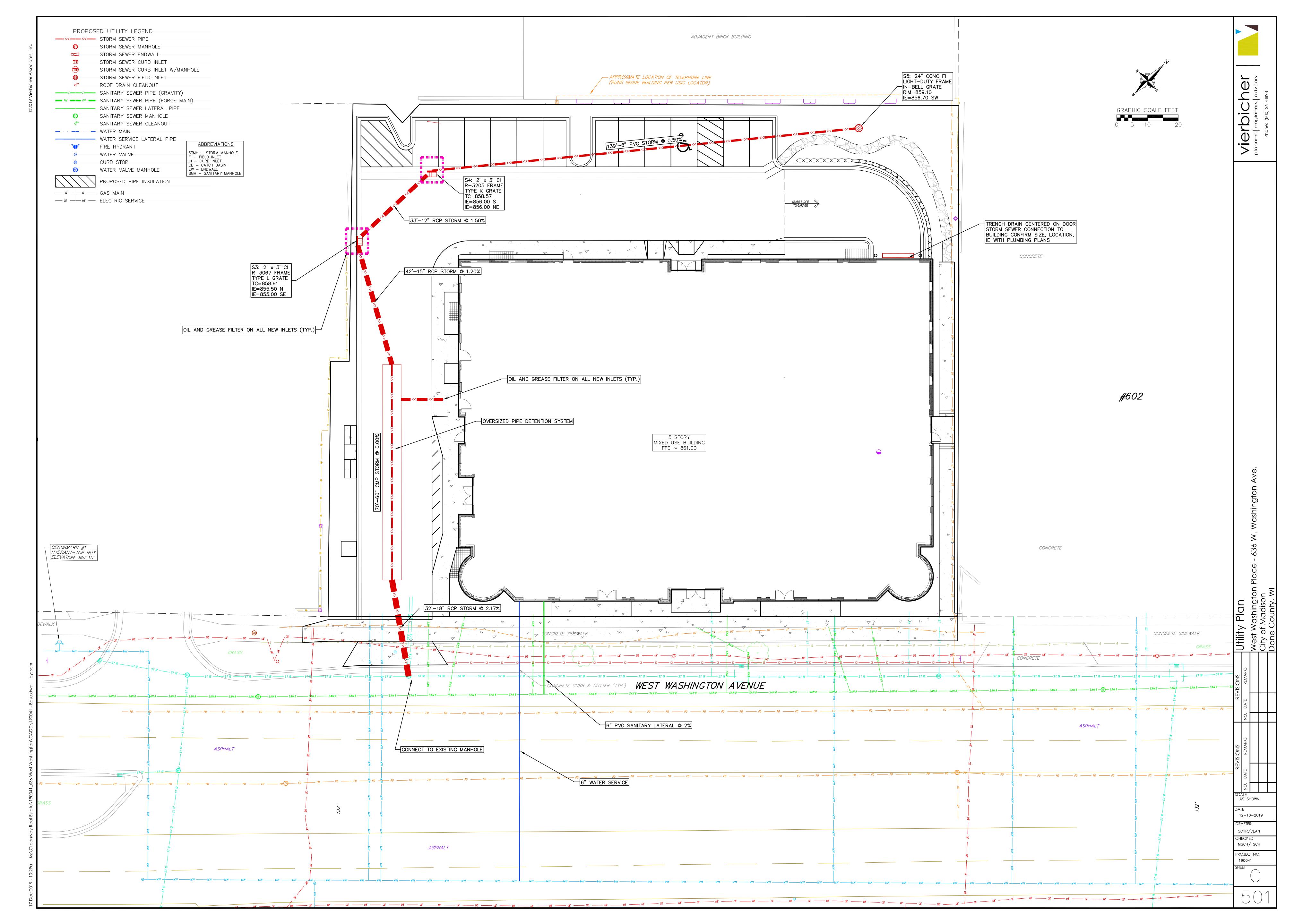
View of building and bike path directly Southwest of Site.











CONSTRUCTION SPECIFICATIONS

STRUCTURE UNTIL STRUCTURE IS REMOVED.

# EROSION CONTROL MEASURES

- 1. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.
- 2. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARDS (http://dnr.wi.gov/runoff/stormwater/techstds.htm) AND WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
- 3. INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, SEDIMENT BASINS, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.
- 4. THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR AND/OR CITY. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
- 5. 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. 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.
- 6. A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF ROAD CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WISDNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
- 7. CHANNELIZED RUNOFF: FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS.
- STABILIZED DISTURBED GROUND: ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25—FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARPING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 14-CONSECUTIVÉ CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.
- 9. <u>SITE DE-WATERING:</u> WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROL MEASURES. SEDIMENTATION BASINS SHALL HAVE A DEPTH OF AT LEAST 3 FEET. BE SURROUNDED BY SNOWFENCE OR EQUIVALENT BARRIER AND HAVE SUFFICIENT SURFACE AREA TO PROVIDE A SURFACE SETTLING RATE OF NO MORE THAN 750 GALLONS PER SQUARE FOOT PER DAY AT THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, A NEIGHBORING SITE, OR THE BED OR BANKS OF THE RECEIVING WATER. POLYMERS MAY BE USED AS DIRECTED BY DNR TECHNICAL STANDARD 1061 (DE-WATERING).
- 10. WASHED STONE WEEPERS OR TEMPORARY EARTH BERMS SHALL BE BUILT PER PLAN BY CONTRACTOR TO TRAP SEDIMENT OR SLOW THE VELOCITY OF STORM WATER.
- 11. INLET FILTERS ARE TO BE PLACED IN STORMWATER INLET STRUCTURES AS SOON AS THEY ARE INSTALLED. THE FILTERS SHALL BE MAINTAINED UNTIL THE DISTURBED AREAS ARE BOTH 70% RESTORED AND PAVED.
- 12. RESTORATION (SEED, FERTILIZE AND MULCH) SHALL BE PER SPECIFICATIONS ON THIS SHEET UNLESS SPECIAL RESTORATION IS CALLED FOR ON THE LANDSCAPE PLAN.
- 13. TERRACES SHALL BE RESTORED WITH 6" TOPSOIL, PERMANENT SEED, FERTILIZER AND MULCH. LOTS SHALL BE RESTORED WITH 6" TOPSOIL, TEMPORARY SEED, FERTILIZER AND MULCH.
- 14. SEED, FERTILIZER AND MULCH SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING, TEMPORARY SEED SHALL BE PLACED.
- 15. FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH, EROSION MAT, SOD) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
- 16. EROSION MAT (CLASS I, TYPE A URBAN PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER BUT LESS THAN 1:1. 17. EROSION MAT (CLASS I, TYPE B URBAN PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON THE BOTTOM (INVERT) OF ROADSIDE DITCHES/SWALES AS SHOWN ON THIS PLAN, 1 ROLL WIDTH.
- 18. SOIL STABILIZERS SHALL BE APPLIED TO DISTURBED AREAS WITH SLOPES BETWEEN 10% AND 3:1 (DO NOT USE IN CHANNELS). SOIL STABILIZERS SHALL BE TYPE B, PER WISCONSIN D.O.T. P.A.L. (PRODUCT ACCEPTABILITY LIST), OR EQUAL. APPLY AT RATES AND METHODS SPECIFIED PER MANUFACTURER. SOIL STABILIZERS SHALL BE RE-APPLIED WHENEVER VEHICLES OR OTHER EQUIPMENT TRACK ON THE AREA.
- 19. SILT FENCE OR EROSION MAT SHALL BE INSTALLED ALONG THE CONTOURS AT 100 FOOT INTERVALS DOWN THE SLOPE ON THE DISTURBED SLOPES STEEPER THAN 5% AND MORE THAN 100 FEET LONG THAT SHEET FLOW TO THE ROADWAY UNLESS SOIL STABILIZERS ARE USED.
- 20. SILT FENCE TO BE USED ACROSS AREAS OF THE LOT THAT SLOPE TOWARDS A PUBLIC STREET OR WATERWAY. SEE DETAILS.
- 21. SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.
- 22. ACCUMULATED CONSTRUCTION SEDIMENT SHALL BE REMOVED FROM ALL PERMANENT BASINS TO THE ELEVATION SHOWN ON THE GRADING PLAN FOLLOWING THE STABILIZATION OF DRAINAGE AREAS.
- 23. ALL CONSTRUCTION ENTRANCES SHALL HAVE TEMPORARY ROAD CLOSED SIGNS THAT WILL BE IN PLACE WHEN THE ENTRANCE IS NOT IN USE AND AT THE END OF EACH DAY.
- 24. ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY AND STATE.

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS,

2.PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER. USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, ERFE OF HOLES AND TEARS OR

3.KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED

HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. REMOVE HARDENED SOLIDS. WHOLE OR

OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF

ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT

BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT

SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.

OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.

- 25. THE CITY, OWNER AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.
- 26. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO ADJACENT ROADS BY MEANS OF STREET SWEEPING (NOT FLUSHING) AT A MINIMUM OF THE END OF EACH WORK DAY OR MORE AS NEEDED.

TEMPORARY CONCRETE WASHOUT

NOT TO SCALE

## **CONSTRUCTION SEQUENCE:**

- 1. INSTALL EROSION CONTROL MEASURES
- 2. CONDUCT DEMOLITION
- 3. STRIP TOPSOIL (UNWORKED AREAS MAY REMAIN NON-STABILIZED FOR A MAXIMUM OF 14 DAYS)
- 4. ROUGH GRADE SITE
- 5. CONSTRUCT UNDERGROUND UTILITIES
- 6. INSTALL INLET PROTECTION IN NEW
- 7. CONSTRUCT BUILDINGS
- 8. CONSTRUCT PAVEMENT
- 9. FINAL GRADE AND RESTORE DISTURBED
- 10. INSTALL FLOGARD STORM INLET FILTERS PER PLAN
- 11. REMOVE EROSION CONTROL MEASURES AFTER DISTURBED AREAS ARE 70% RESTORED OR PAVED.

## **SEEDING RATES:**

TEMPORARY: 1. USE ANNUAL OATS AT 3.0 LB./1,000 S.F. FOR SPRING AND SUMMER PLANTINGS. 2. USE WINTER WHEAT OR RYE AT 3.0 LB./1,000 SF FOR FALL PLANTINGS STARTED

<u>PERMANENT:</u> 1. USE WISCONSIN D.O.T. SEED MIX #40 AT 2 LB./1,000 S.F.

## FERTILIZING RATES:

AFTER SEPTEMBER 15.

TEMPORARY AND PERMANENT: USE WISCONSIN D.O.T. TYPE A OR B AT 7 LB./1,000 S.F.

# MULCHING RATES:

TEMPORARY AND PERMANENT: USE ½" TO 1-½" STRAW OR HAY MULCH, CRIMPED PER SECTION 607.3.2.3, OR OTHER RATE AND METHOD PER SECTION 627, WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION

# -STEEL OR WOOD POST -FENCE SUPPORT MESH (OPTIONAL) SEE NOTE 4 30" (MIN.) -BACKFILLED AND COMPACTED SOIL 24" (MIN.) 6" (MIN.) TRENCH 18" (MIN.) <sup>)</sup> 6"(MIN.)

## NOTES:

- 1. INSTALL SILT FENCE TO FOLLOW THE GROUND CONTOURS AS CLOSELY AS POSSIBLE.
- 2. CURVE THE SILT FENCE UP THE SLOPE TO PREVENT WATER FROM RUNNING AROUND THE
- 3. POST SPACING WITH FENCE SUPPORT MESH = 10 FT. (MAX.) POST SPACING WITHOUT FENCE SUPPORT

MESH = 6 FT. (MAX.)

4. SILT FENCE SUPPORT MESH CONSISTS OF 14-GAUGE STEEL WIRE WITH A MESH SPACING OF 6 IN. X 6 IN. OR PREFABRICATED POLYMERIC MESH OF EQUIVALENT STRENGTH



-50' MINIMUM LENGTH—

MINIMUM 12" DEEP

PAD OF 3" CLEAR

STONE OVER FULL

OF STRUCTURE

LENGTH AND WIDTH

PROFILE VIEW

—50'MINIMUM LENGTH—

2. LENGTH — MINIMUM OF 50'

- EXISTING GROUND

- 3. WIDTH 24' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- 4. ON SITES WITH A HIGH GROUND WATER TABLE OR WHERE SATURATED CONDITIONS EXIST, GEOTEXTILE FABRIC SHALL BE PLACED OVER EXISTING GROUND PRIOR TO PLACING STONE. FABRIC SHALL BE WISDOT TYPE-HR GEOTEXTILE FABRIC.

**TRACKING** 

PAD

24' MIN

PLAN VIEW

MOUNTABLE BERM

10' MIN

· EXISTING

PAVEMENT

6" MIN. HEIGHT

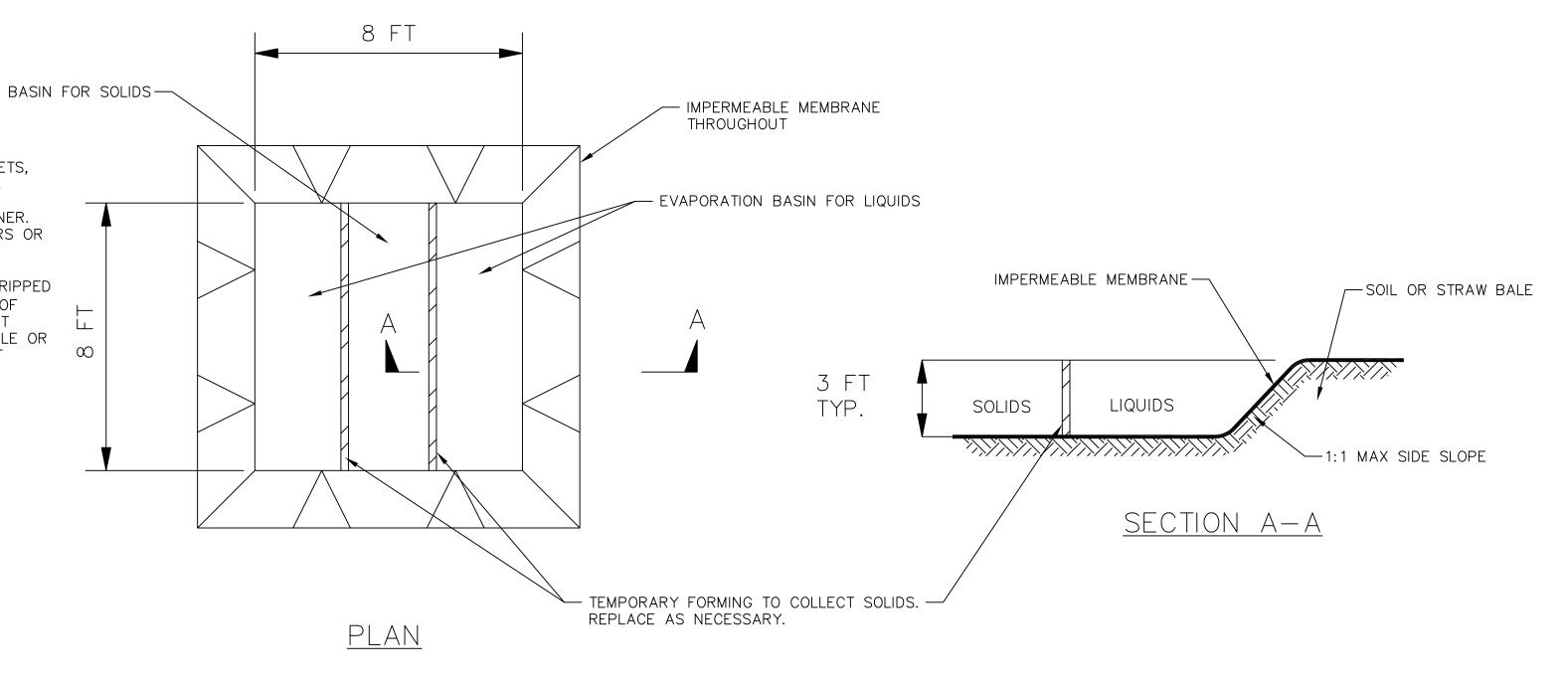
(OPTIONAL)

└─ PIPE AS NECESSARY

SEE NOTE 6

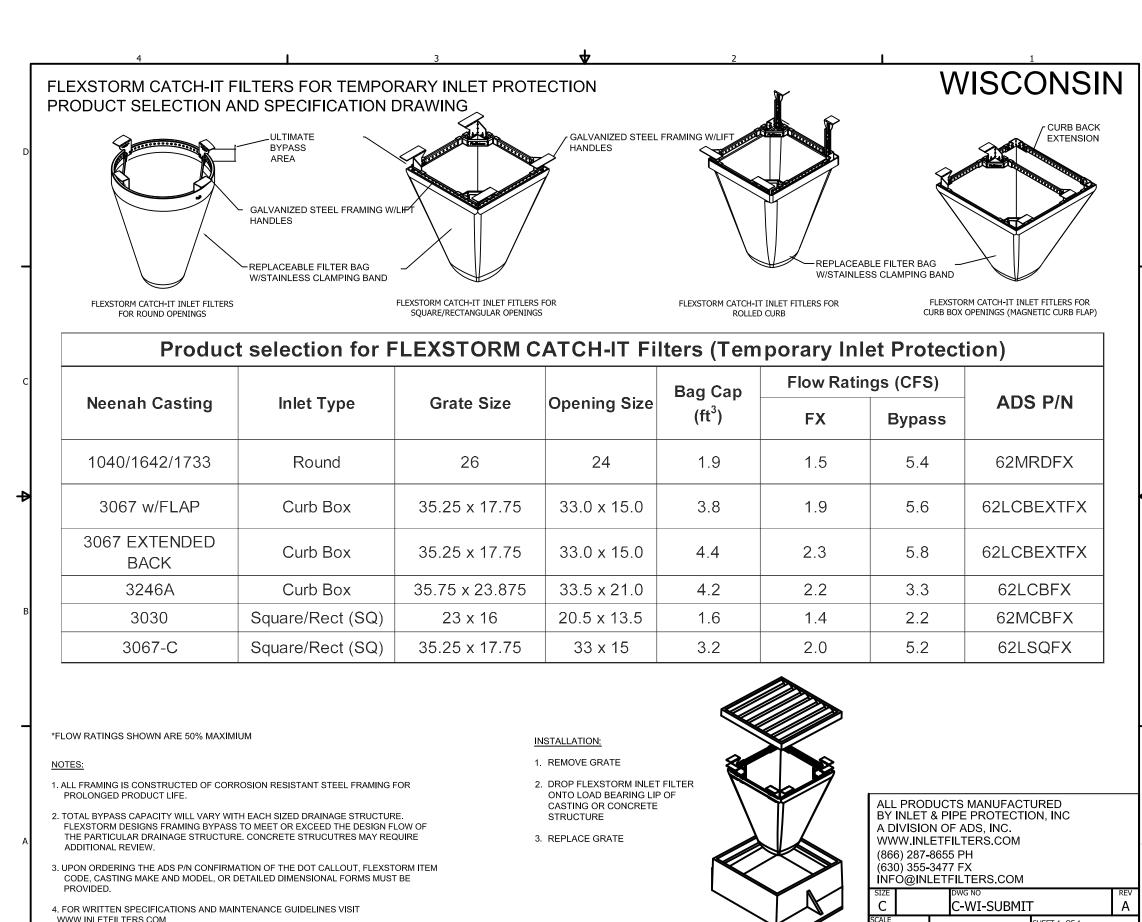
- 5. STONE CRUSHED 3" CLEAR STONE SHALL BE PLACED AT LEAST 12" DEEP OVER THE ENTIRE LENGTH AND WIDTH OF ENTRANCE.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARDS CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND MINIMIUM OF 6" STONE OVER THE PIPE, PIPE SHALL BE SIZED ACCORDING TO THE DRAINAGE REQUIREMENTS. WHEN THE ENTRANCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE SHALL NOT BE NECESSARY. THE MINIMUM PIPE DIAMETER SHALL BE 6". CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SAID PIPE.
- 7. LOCATION A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED WHERE CONSTRUCTION TRAFFIC ENTERS AND/OR LEAVES THE CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE TRACKING PAD.





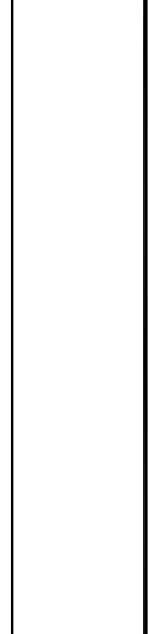
SILT FENCE

NOT TO SCALE









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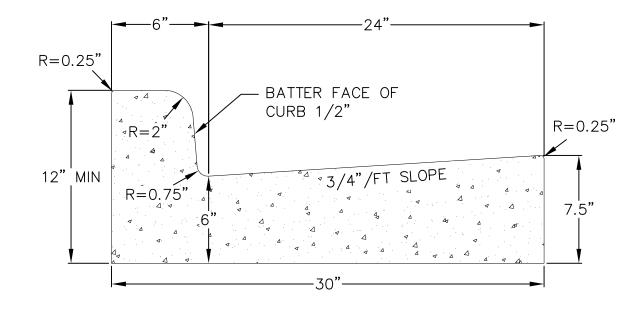
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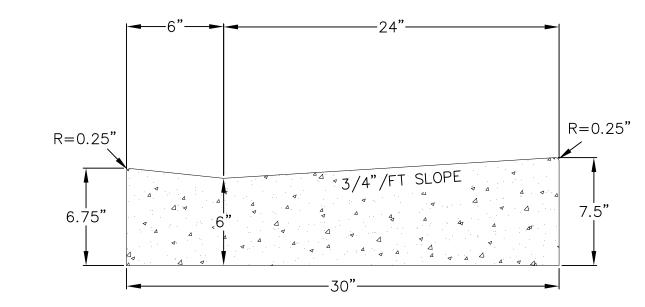
AS SHOWN 12-18-2019 SCHR/CLAN CHECKED MSCH/TSCH PROJECT NO.

190041

- 4" COMPACTED GRANULAR BASE

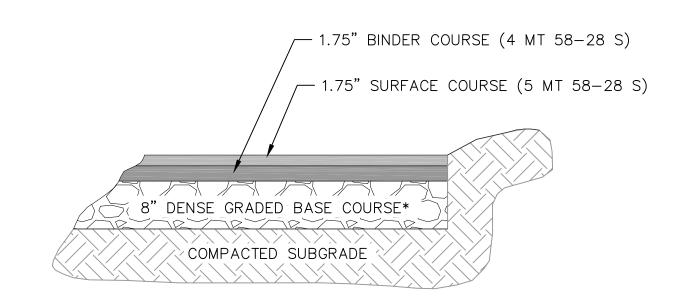


CURB AND GUTTER CROSS SECTION



DRIVEWAY AND GUTTER CROSS SECTION

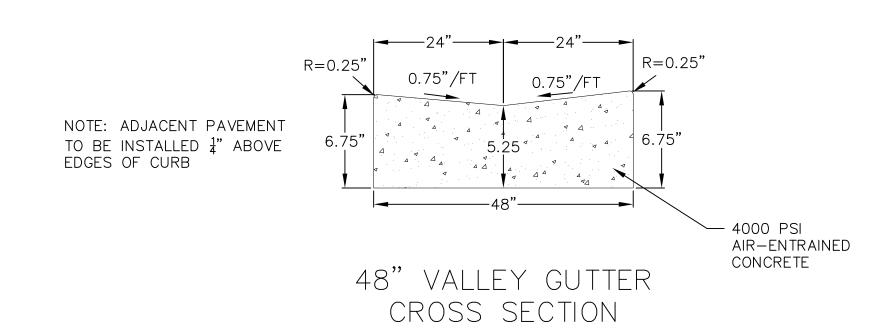
30" CONCRETE CURB AND GUTTER NOT TO SCALE



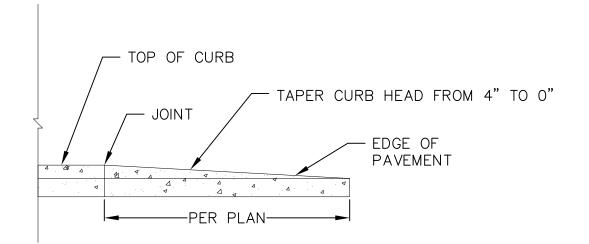
\*THE UPPER 4" SHOULD CONSIST OF 1 1/4" DENSE GRADED BASE; THE BOTTOM PART OF THE LAYER CAN CONSIST OF 3" DENSE GRADED BASE

BITUMINOUS PAVEMENT



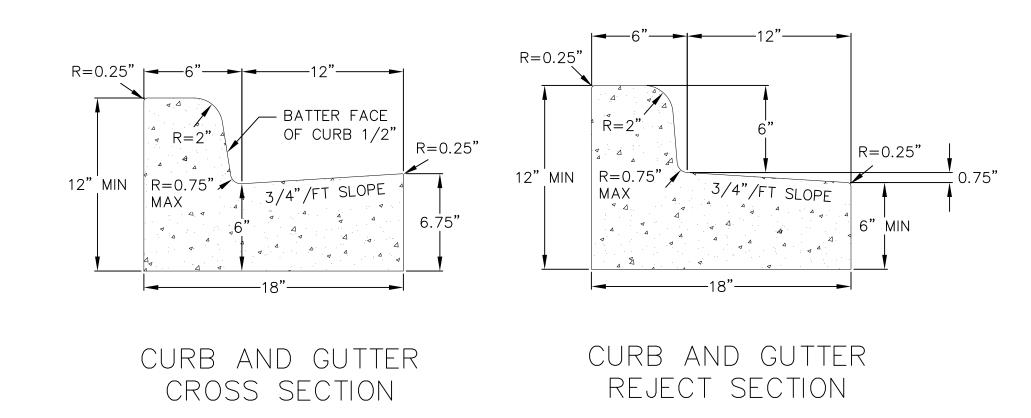




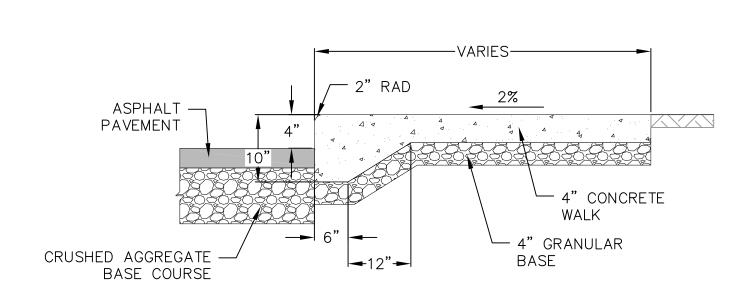


PROFILE VIEW

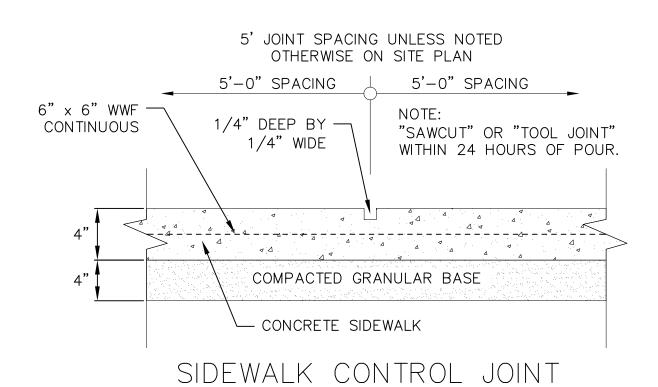








CURBED SIDEWALK SITE DETAIL NOT TO SCALE

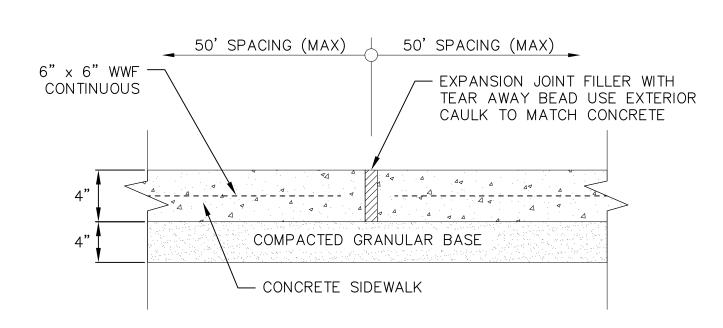


\_\_\_6" x 6" WWF

-WIDTH VARIES (SEE PLANS)—

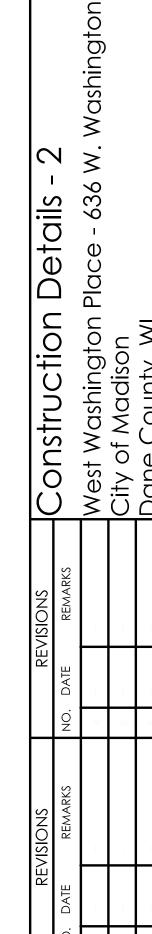
CROSS-SLOPE = 2% (1/4"/ FT.)

4" SITE SIDEWALK



SIDEWALK EXPANSION JOINT





12-18-2019

SCHR/CLAN

MSCH/TSCH

190041

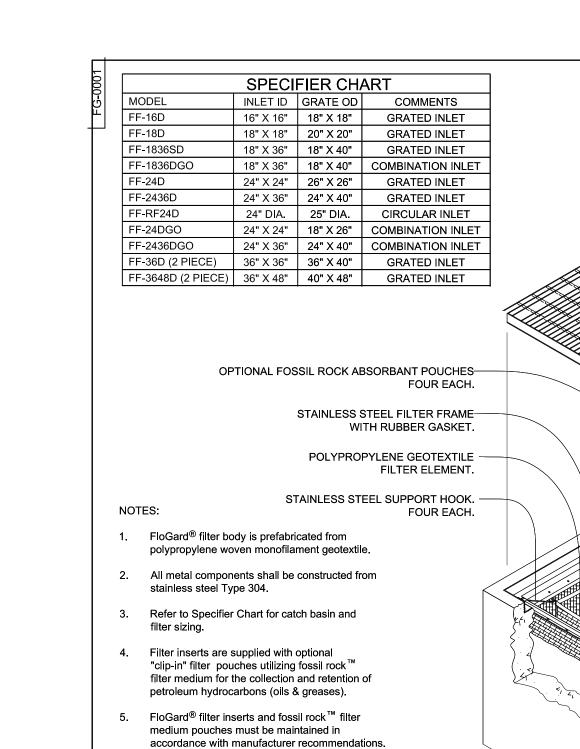
12-18-2019

MSCH/TSCH

190041

(BY OTHERS)

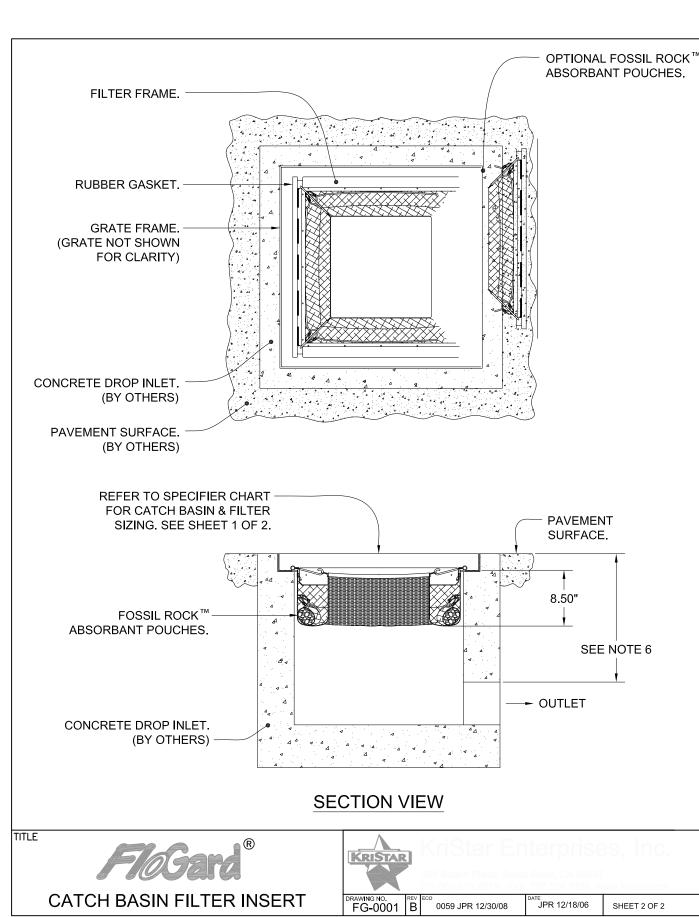




6. Catch basin depth must not allow filter body to to

CATCH BASIN FILTER INSERT

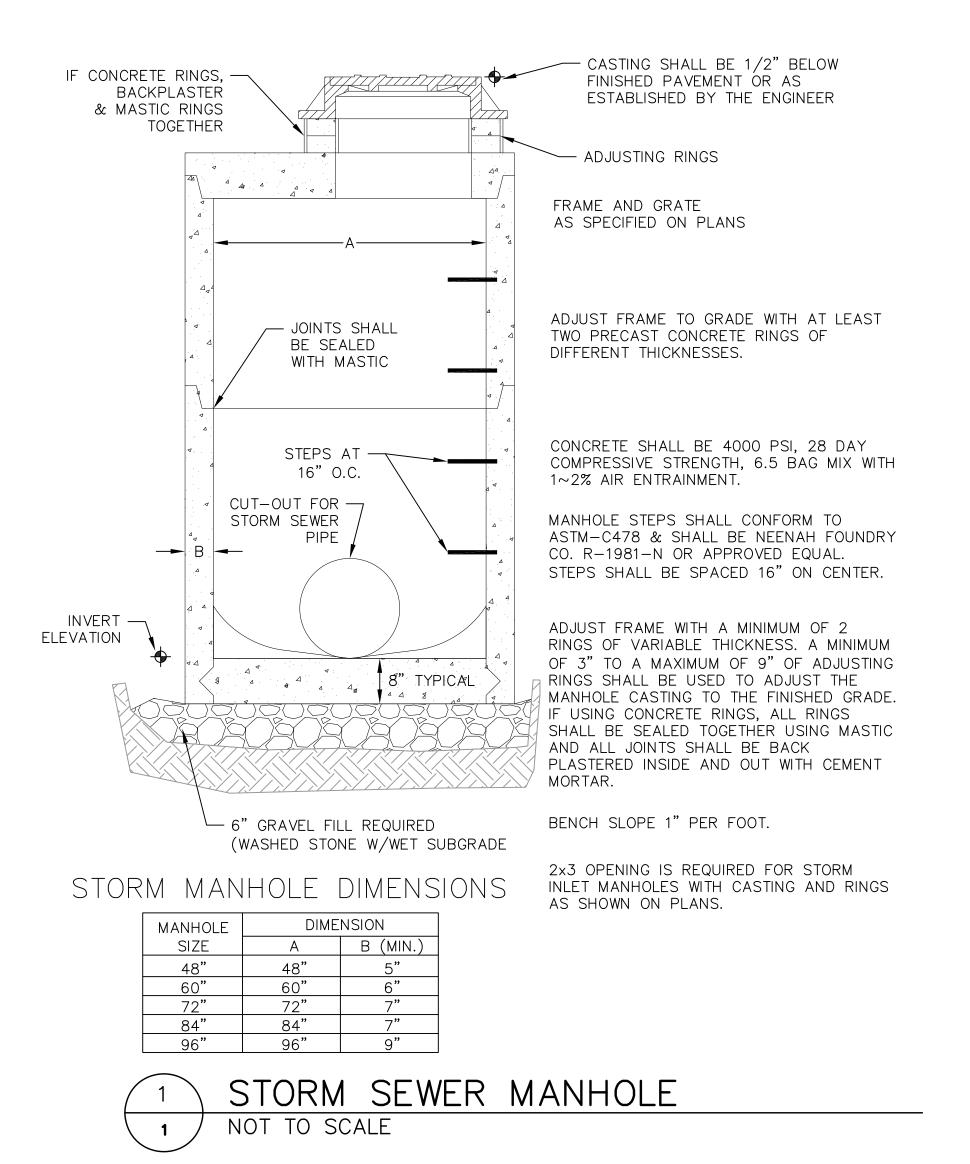
obstruct outlet pipe . See sheet 2 of 2.

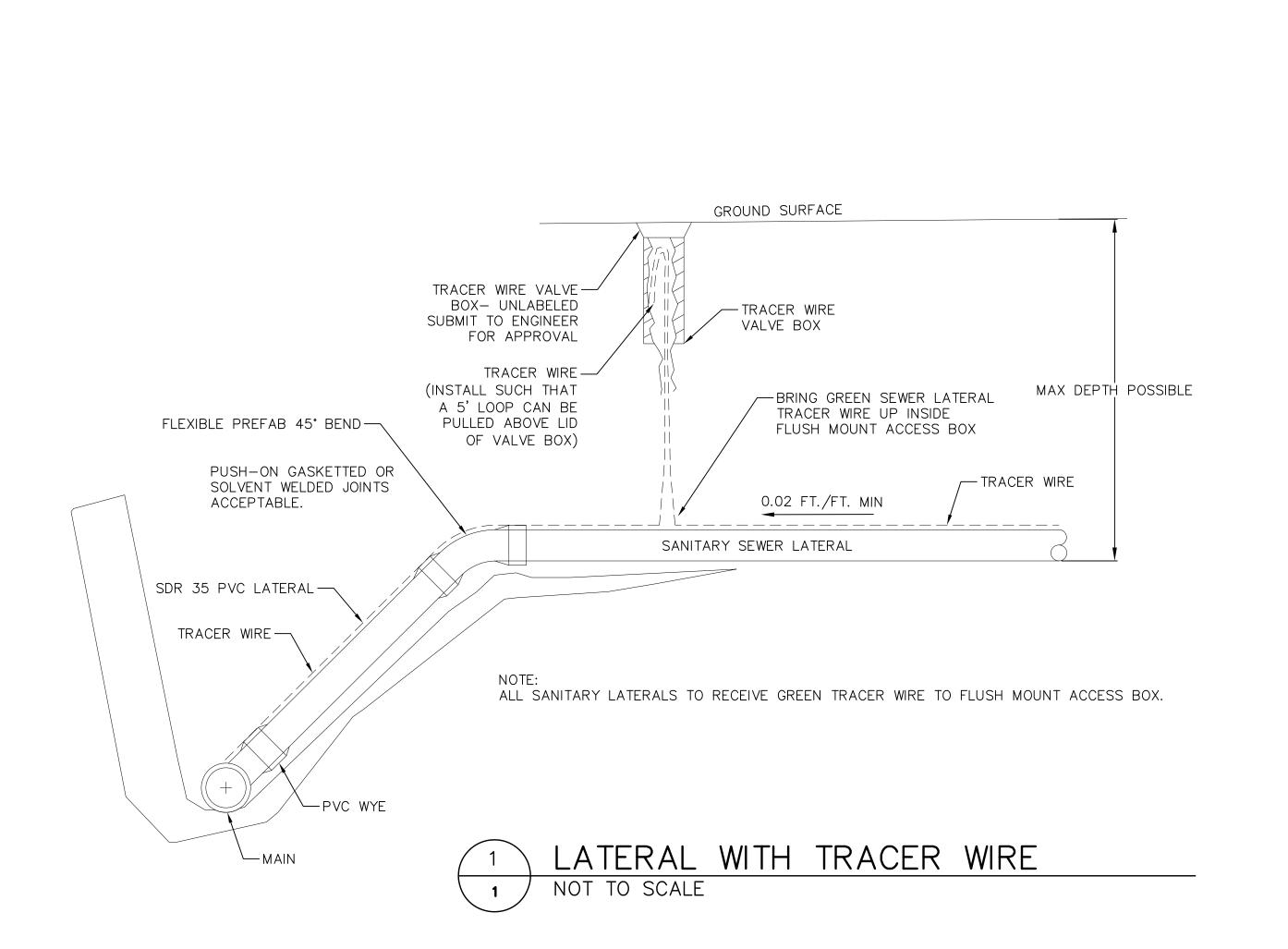


CATCH BASIN.

FG-0001 B 0059 JPR 12/30/08 DATE JPR 12/18/06 SHEET 1 OF 2







- PAVEMENT SUBGRADE

PAY DEPTH OF SAND OR

COMPACTED COVER MATERIAL

- CAREFULLY COMPACTED

COMPACTION IN HAUNCHES

BEDDING MATERIAL

- ENSURE COMPLETE

6" CLASS I MATERIAL REQUIRED

IN WET TRENCH WITHOUT EXTRA

GRAVEL BACKFILL WHEN ORDERED AS AN EXTRA

OR CREDIT

SPRING LINE

COST TO OWNER

BACKFILL

■ MINIMUM CLEAR WIDTH

CLASS B RIGID PIPE TRENCH SECTION

4'x8'x4" POLYSTYRENE FOAM — INSULATION IF REQUIRED

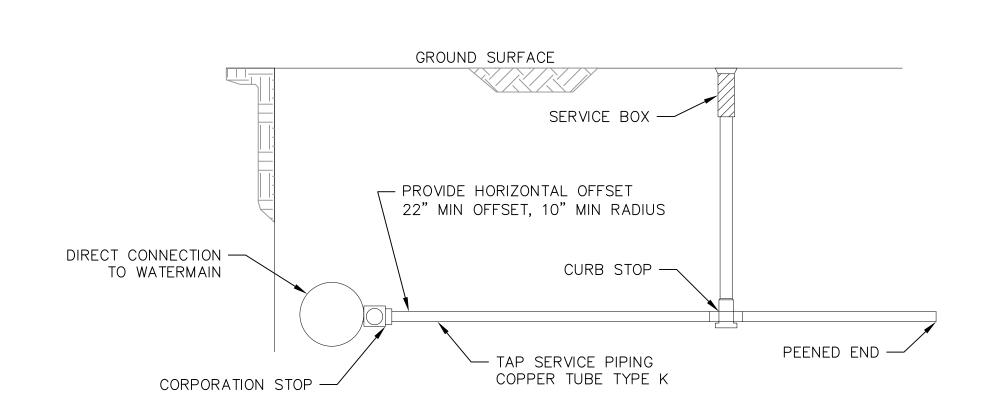
CLASS I OR CLASS II BEDDING -

MATERIAL TO BE PLACED

BEFORE SETTING PIPE

6" MIN. UNDER BARREL

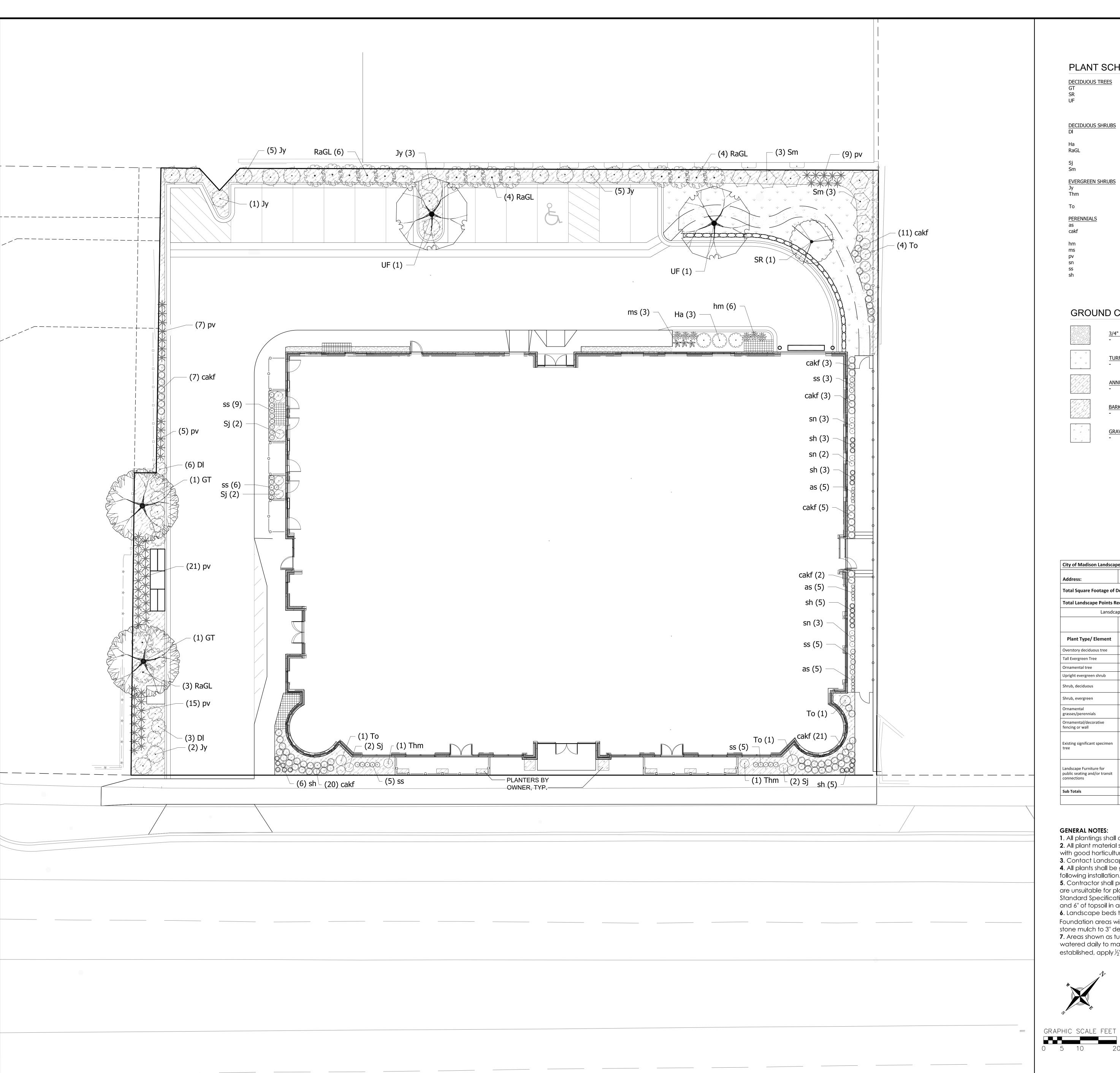
HAND TRIM UNDER BELL



UNLESS OTHERWISE STATED BY THE ENGINEER OR REQUIRED BY THE LOCAL GOVERNING BODY, ALL LATERALS SHALL BE INSTALLED TO A POINT 10 BEYOND THE BACK OF ANY PROPOSED SIDEWALK OR 5 FEET BEYOND THE LIMITS OF ANY UTILITY EASEMENTS IMMEDIATELY ADJACENT TO THE RIGHT-OF-WAY, WHICHEVER IS GREATER. CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM THE LENGTH OF LATERAL REQUIRED FOR INSTALLATION AND THE REQUIRED TERMINATION POINT.

WATER SERVICE

NOT FOR CONSTRUCTION



# PLANT SCHEDULE

DECIDUOUS TREES GT Gleditsia triacanthos inermis `Shademaster` TM / Shademaster SR Syringa reticulata `Ivory Silk` / Ivory Silk Japanese Tree Lilac Ulmus x `Frontier` / American Elm 40-50`h x 25-35`w Upright vase shaped	B & B B & B <u>SIZE</u> 3 gal	<u>CAL</u> 2.5"Cal 1.5"Cal 2.5"Cal	<u>QT\</u> 2 1 2 <u>QT\</u> 9
	3 gal	FIELD2	<u>QT\</u> 9
DECIDUOUS SHRUBS DI  BOTANICAL / COMMON NAME Diervilla lonicera / Dwarf Bush Honeysuckle 3-4`h x 4-5`w	angea 5 gal		
Ha Hydrangea arborescens `Annabelle` / Annabelle Smooth Hydra RaGL Rhus aromatica `Gro-Low` / Gro-Low Fragrant Sumac 2-3`h x 6-8`w	3 gal	Cont	3 17
Sj Spiraea japonica `Magic Carpet` / Magic Carpet Spirea Sm Syringa meyeri `Palibin` / Dwarf Korean Lilac	3 gal 5 gal	Cont	8 6
EVERGREEN SHRUBS  Jy  Thm  BOTANICAL / COMMON NAME  Juniperus horizontalis plumosa `Youngstown` / Creeping Junip  Thuja occidentalis `Hetz Midget` / Hetz Midget Arborvitae  2-3` x 2-3`	<u>SIZE</u> per 5 gal 5 gal	FIELD2 Cont	<u>QT\</u> 16 2
To Thuja occidentalis `Holmstrup` / Holmstrup Cedar	10 gal	Cont	7
PERENNIALS as Allium x `Summer Beauty` / Summer Beauty Allium cakf Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass 3-5`h x 2`w	SIZE 4" pot ss 1 gal	FIELD2	<u>QT\</u> 15 72
hm Hosta x `August Moon` / Plantain Lily ms Matteuccia struthiopteris / Ostrich Fern pv Panicum virgatum `Heavy Metal` / Blue Switch Grass sn Salvia nemorosa `Blue Hill` / Woodland Sage ss Schizachyrium scoparium / Little Bluestem Grass sh Sporobolus heterolepis / Prairie Dropseed	1 gal 1 gal 1 gal 1 gal 4" pot 4" pot	Cont Cont Cont Cont	6 3 57 8 33 22

# GROUND COVER SCHEDULE



City of Madison Landscap	<u> </u>								
Address:	636 W. Washington Ave		Date:	12.18.2019					
Total Square Footage of Developed Area:  Total Landscape Points Required (<5 ac):		(Site Area)	33,291	-	(Building F Gra		16796	=	16495
		16,495	/ 300 =	55	x 5 =	275	2:		
Lansdca	ape Points Requried >5 ac:	0	/ 100 =	0	x 1 =	-		/5	
				Existing scaping	New/ Pi Landse	•			
Plant Type/ Element	Min. Size at Installation	Points	Quantity	Points Achieved	Quantity	Points Achieved			
Overstory deciduous tree	2.5" cal	35		0	4	140			
Tall Evergreen Tree	5-6 feet tall	35		0		0			
Ornamental tree	1.5" cal	15		0	1	15			
Upright evergreen shrub	3-4 feet tall	10		0	7	70			
Shrub, deciduous	#3 gallon container size, Min. 12-24"	3		0	43	129			
Shrub, evergreen	#3 gallon container size, Min. 12-24"	4		0	18	72			
Ornamental grasses/perennials	#1 gallon container size, Min. 8-18"	2		0	216	432			
Ornamental/decorative fencing or wall	n/a	4 per 10 LF		0		0			
Existing significant specimen tree	Min. Size 2.5" cal. Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch. Max. points per tree: 200		0		0			
Landscape Furniture for public seating and/or transit connections	Furniture must be within developed area, publicly accessible, and cannot comprise more than 5% of total required points	5 points per "seat"		0		0			
Sub Totals				0		858			

1. All plantings shall conform to quality requirements as per ANSI Z60.1.

2. All plant material shall be true to the species, variety and size specified, nursery grown in accordance with good horticultural practices, and under climactic conditions similar to those of the project site. 3. Contact Landscape Architect to request and plant material substitutions due to availability issues. 4. All plants shall be guaranteed to be in healthy and flourishing condition during the growing season following installation. All plant material shall be guaranteed for one year from the time of installation.

5. Contractor shall provide a suitable amended topsoil blend for all planting areas where soil conditions are unsuitable for plant growth. Topsoil shall conform to quality requirements as per Section 625.2(1) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in all planting areas and 6" of topsoil in areas to be seeded/sodded.

6. Landscape beds to be mulched with undyed shredded hardwood bark mulch to 3" depth min. Foundation areas without plantings to be mulched with  $\frac{3}{4}$ " washed stone over weed barrier fabric. Place stone mulch to 3" depth min.

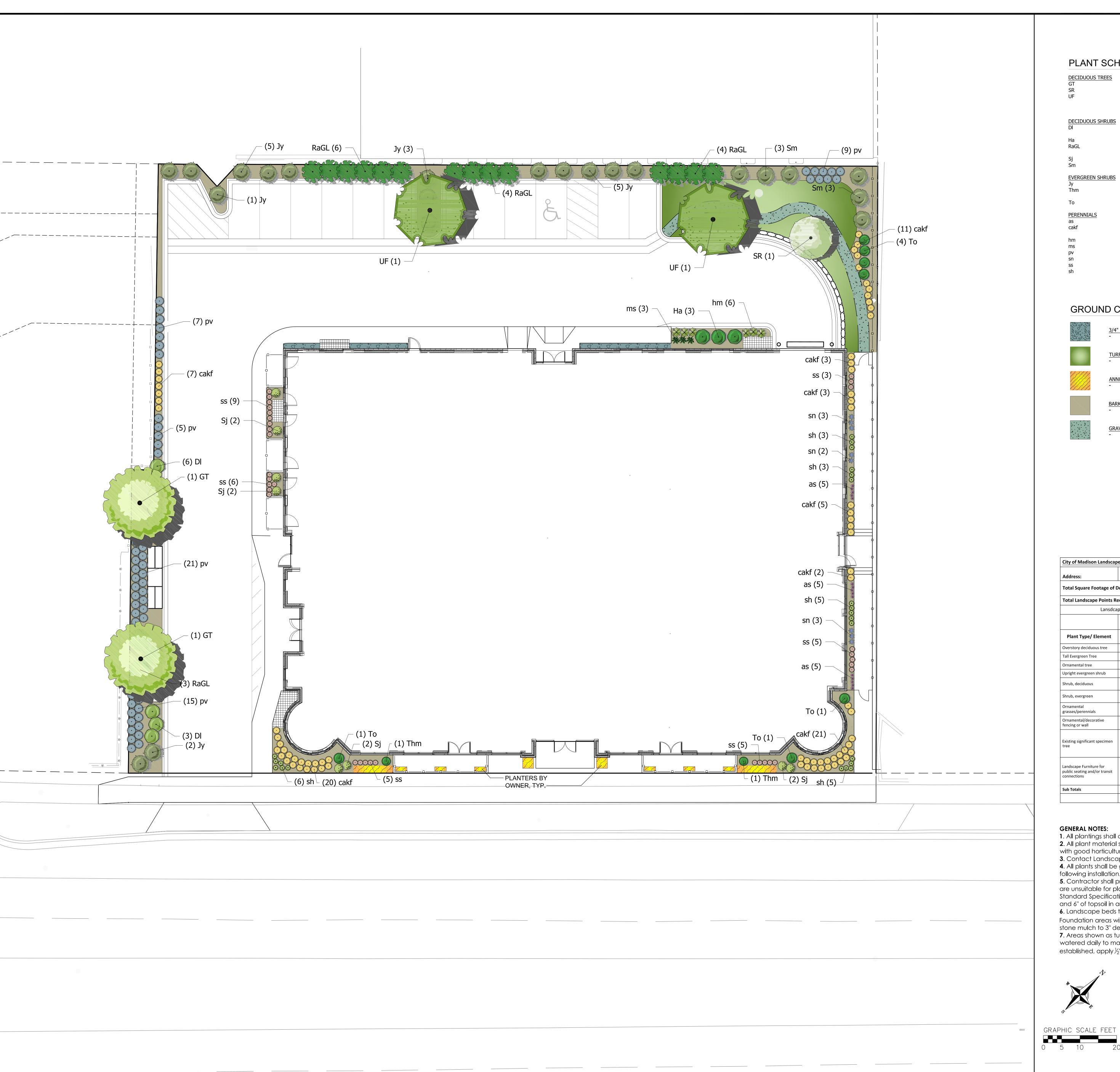
7. Areas shown as turf grass to be sodded with turf sod not grown in peat. All sodded areas are to be watered daily to maintain adequate soil moisture for proper establishment. After vigorous growth is established, apply  $\frac{1}{2}$ " water twice weekly until final acceptance.

NOT FOR CONSTRUCTION

12-18-2019

MSCH/TSCH

PROJECT NO.



# PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME	CONT	CAL 2. EllCal	QTY
GT	Gleditsia triacanthos inermis `Shademaster` TM / Shademaster Locust	B&B	2.5"Cal	2
SR UF	Syringa reticulata `Ivory Silk` / Ivory Silk Japanese Tree Lilac	B&B	1.5"Cal 2.5"Cal	1 2
UF	Ulmus x `Frontier` / American Elm	B & B	2.5 Cai	2
	40-50`h x 25-35`w			
	Upright vase shaped			
DECIDUOUS SHRUBS	BOTANICAL / COMMON NAME	SIZE	FIELD2	<u>QTY</u>
DI	Diervilla Ionicera / Dwarf Bush Honeysuckle	3 gal		9
	3-4`h x 4-5`w			
На	Hydrangea arborescens `Annabelle` / Annabelle Smooth Hydrangea	5 gal	Cont	3
RaGL	Rhus aromatica `Gro-Low` / Gro-Low Fragrant Sumac	3 gal		17
	2-3`h x 6-8`w			
Sj	Spiraea japonica `Magic Carpet` / Magic Carpet Spirea	3 gal	Cont	8
Sm	Syringa meyeri `Palibin` / Dwarf Korean Lilac	5 gal		6
EVERGREEN SHRUBS	BOTANICAL / COMMON NAME	SIZE	FIELD2	<u>QTY</u>
Ју	Juniperus horizontalis plumosa `Youngstown` / Creeping Juniper	5 gal		16
Thm	Thuja occidentalis `Hetz Midget` / Hetz Midget Arborvitae	5 gal	Cont	2
	2-3` x 2-3`	_		
То	Thuja occidentalis `Holmstrup` / Holmstrup Cedar	10 gal	Cont	7
PERENNIALS	BOTANICAL / COMMON NAME	SIZE	FIELD2	QTY
as	Allium x `Summer Beauty` / Summer Beauty Allium	4" pot		<u>QTY</u> 15
cakf	Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass	1 gal		72
	3-5`h x 2`w			
hm	Hosta x `August Moon` / Plantain Lily	1 gal	Cont	6
ms	Matteuccia struthiopteris / Ostrich Fern	1 gal	Cont	3
pv	Panicum virgatum `Heavy Metal` / Blue Switch Grass	1 gal	Cont	57
sn	Salvia nemorosa `Blue Hill` / Woodland Sage	1 gal	Cont	8
SS	Schizachyrium scoparium / Little Bluestem Grass	4" pot		33
sh	Sporobolus heterolepis / Prairie Dropseed	4" pot		22

# GROUND COVER SCHEDULE

	3/4" WASHED STONE -	76 sf
•	TURF GRASS	769 sf
	ANNUALS -	77 sf
	BARK MULCH -	2,630 sf
=	GRAVEL PATH	261 sf

City of Madison Landsca	pe Worksheet								
Address:	636 W. Washington Ave		Date:	12.18.2019					
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Lansdo	ape Points Requried >5 ac:	0	/ 100 =	0	x 1 =	-	]	/3	
				/ Existing scaping	New/ Pi Landso	•			
Plant Type/ Element	Min. Size at Installation	Points	Quantity	Points Achieved	Quantity	Points Achieved			
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Tall Evergreen Tree	5-6 feet tall	35		0		0			
Ornamental tree	1.5" cal	15		0	1	15			
Upright evergreen shrub	3-4 feet tall	10		0	7	70			
Shrub, deciduous	#3 gallon container size, Min. 12-24"	3		0	43	129			
Shrub, evergreen	#3 gallon container size, Min. 12-24"	4		0	18	72			
Ornamental grasses/perennials	#1 gallon container size, Min. 8-18"	2		0	216	432			
Ornamental/decorative fencing or wall	n/a	4 per 10 LF		0		0			
Existing significant specimen tree	Min. Size 2.5" cal. Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch. Max. points per tree: 200		0		0			
Landscape Furniture for public seating and/or transit connections	Furniture must be within developed area, publicly accessible, and cannot comprise more than 5% of total required points	5 points per "seat"		0		0			
Sub Totals				0		858			

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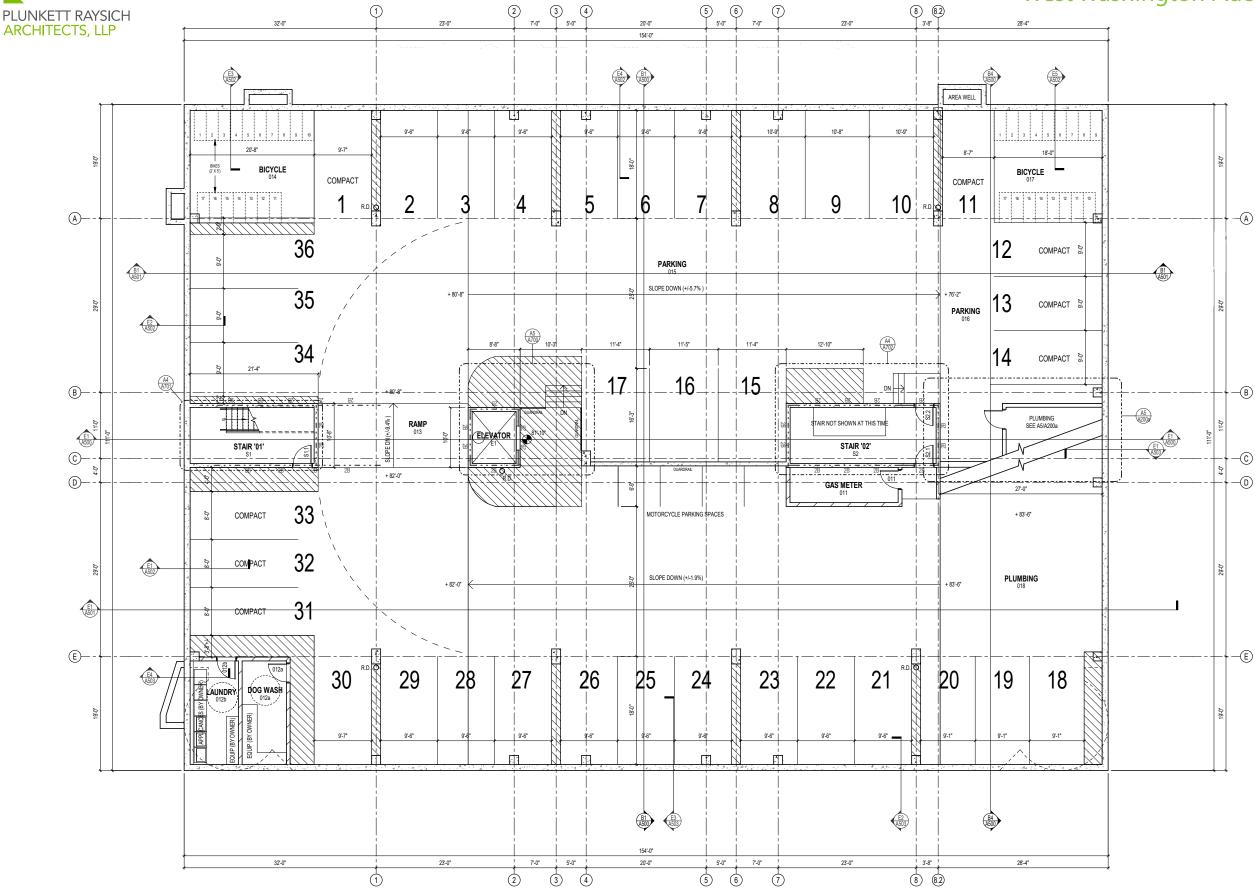


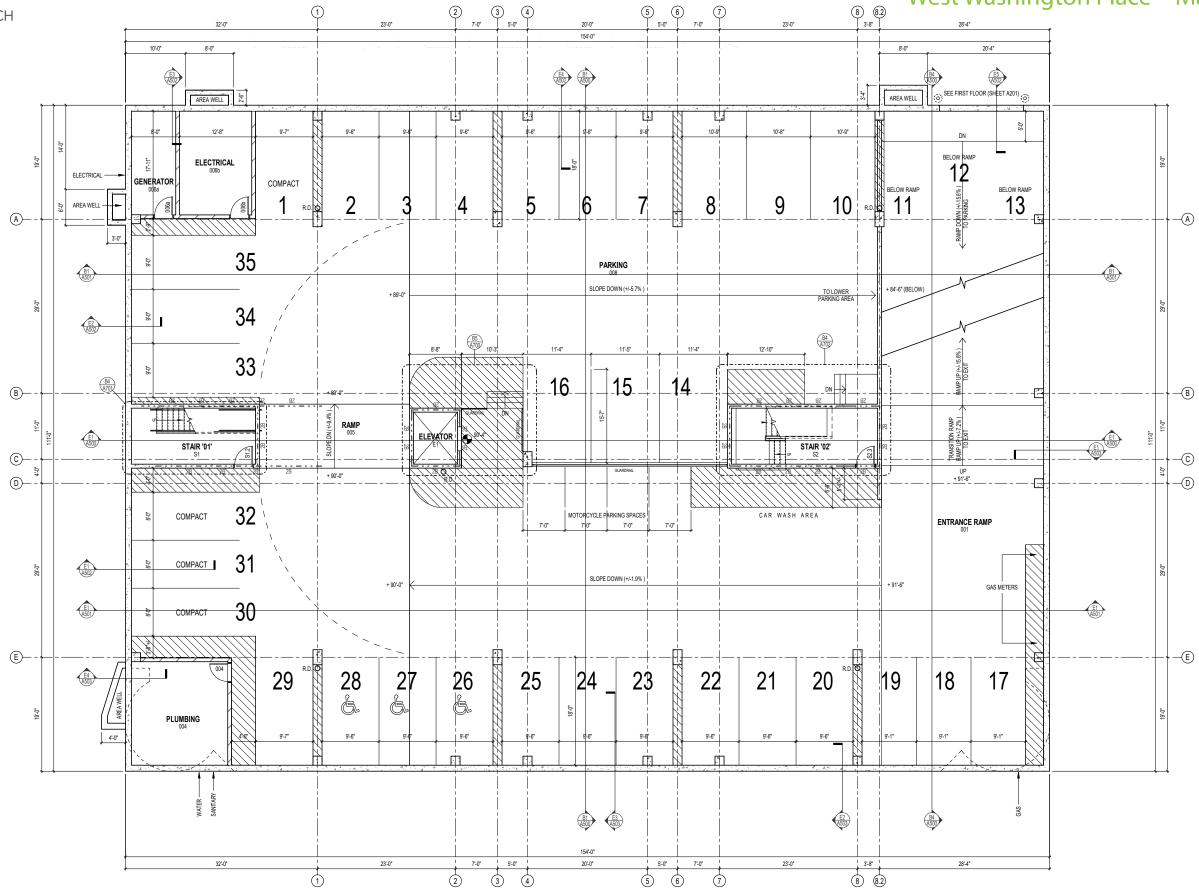
NOT FOR CONSTRUCTION

MSCH/TSCH PROJECT NO.

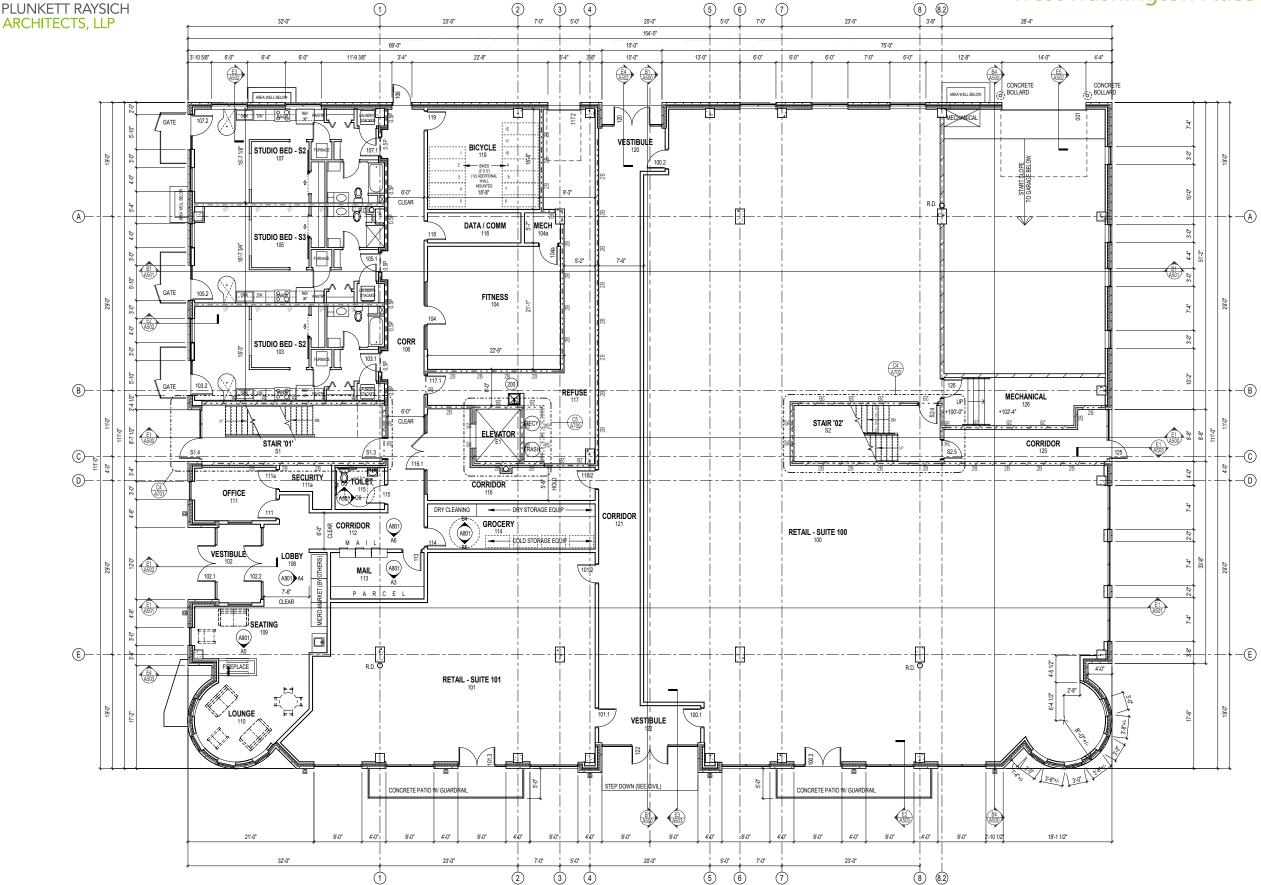
12-18-2019



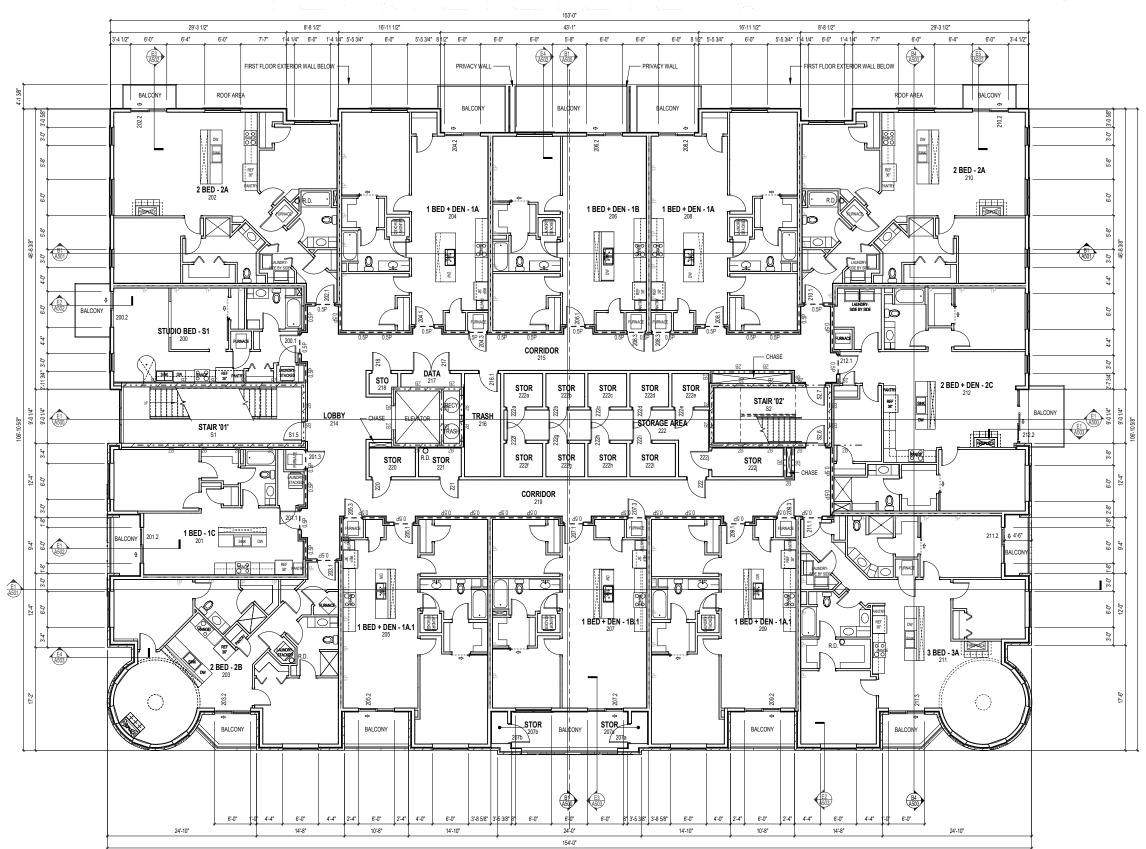




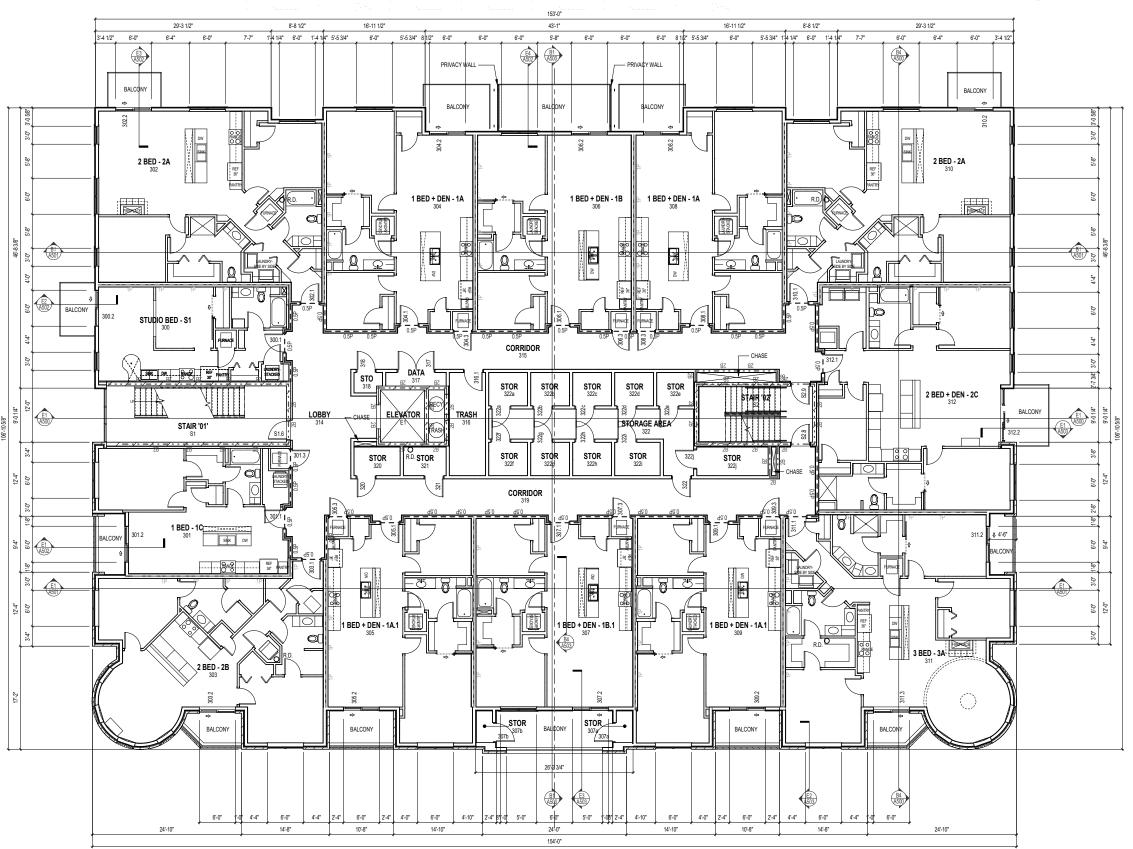




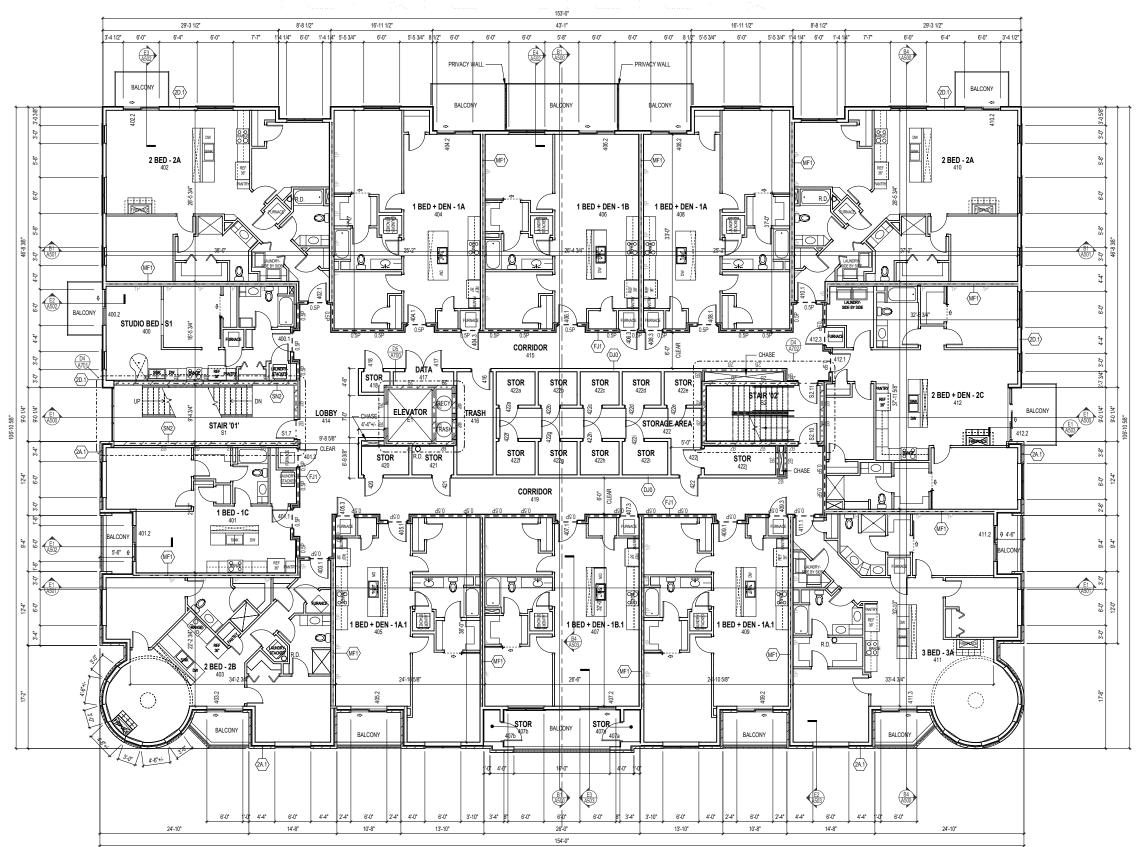




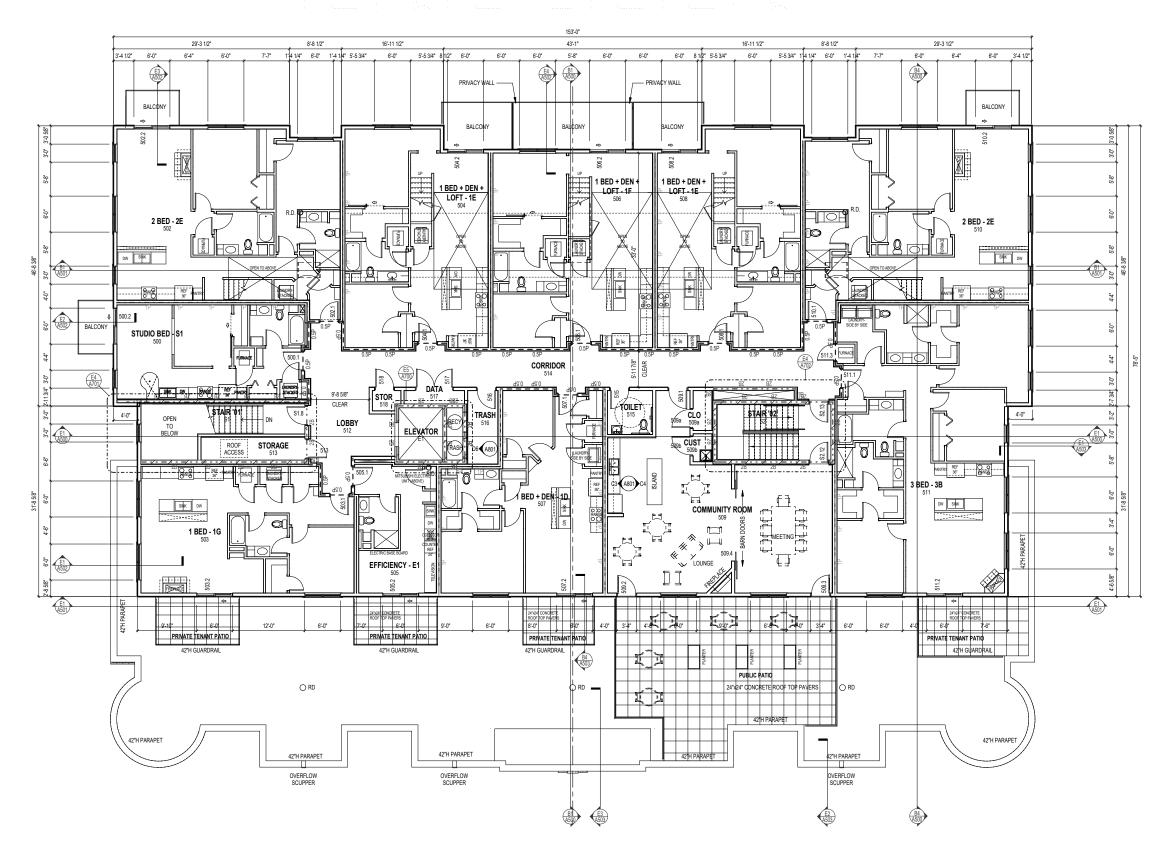




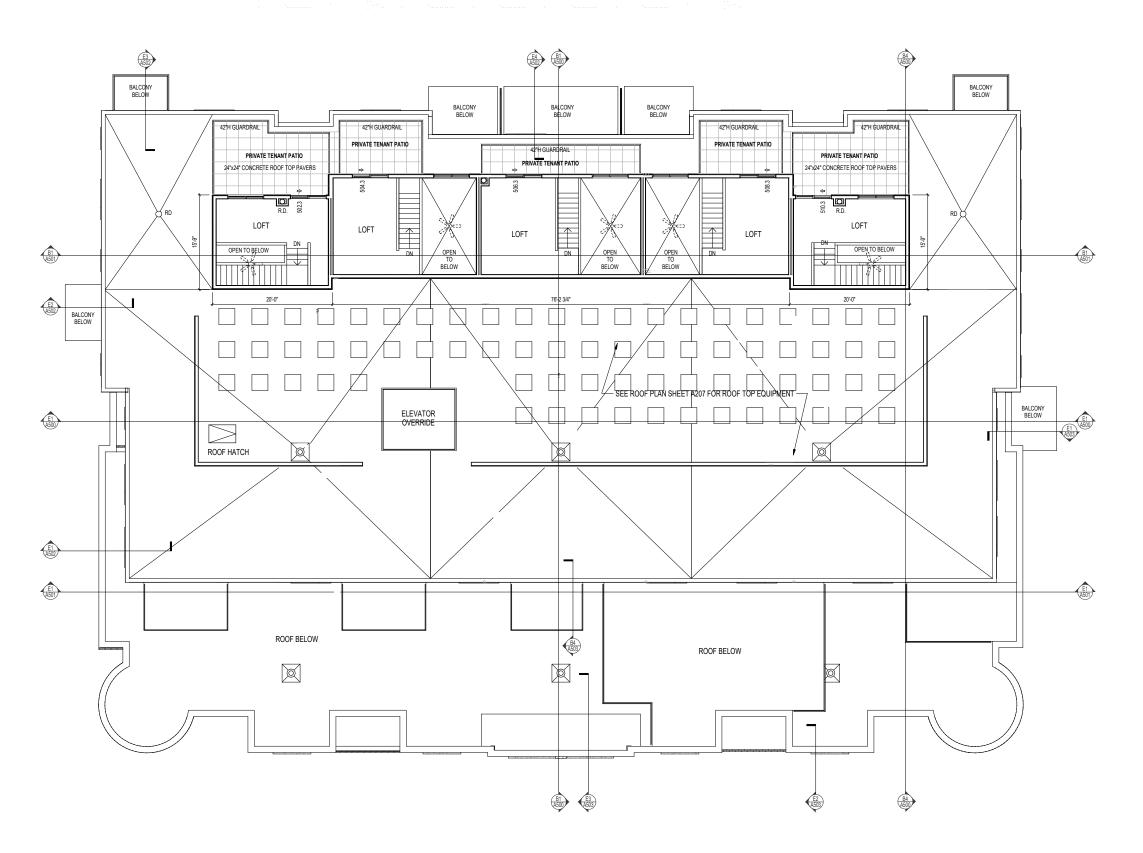




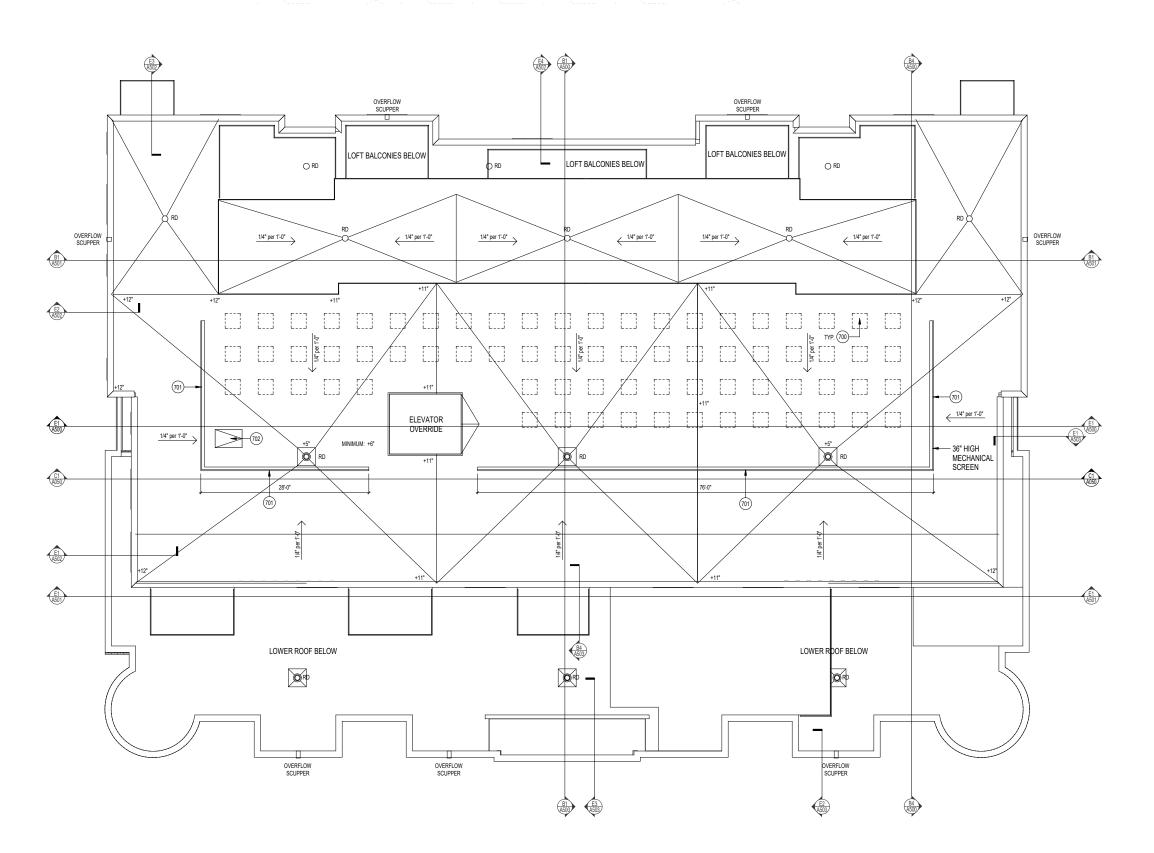


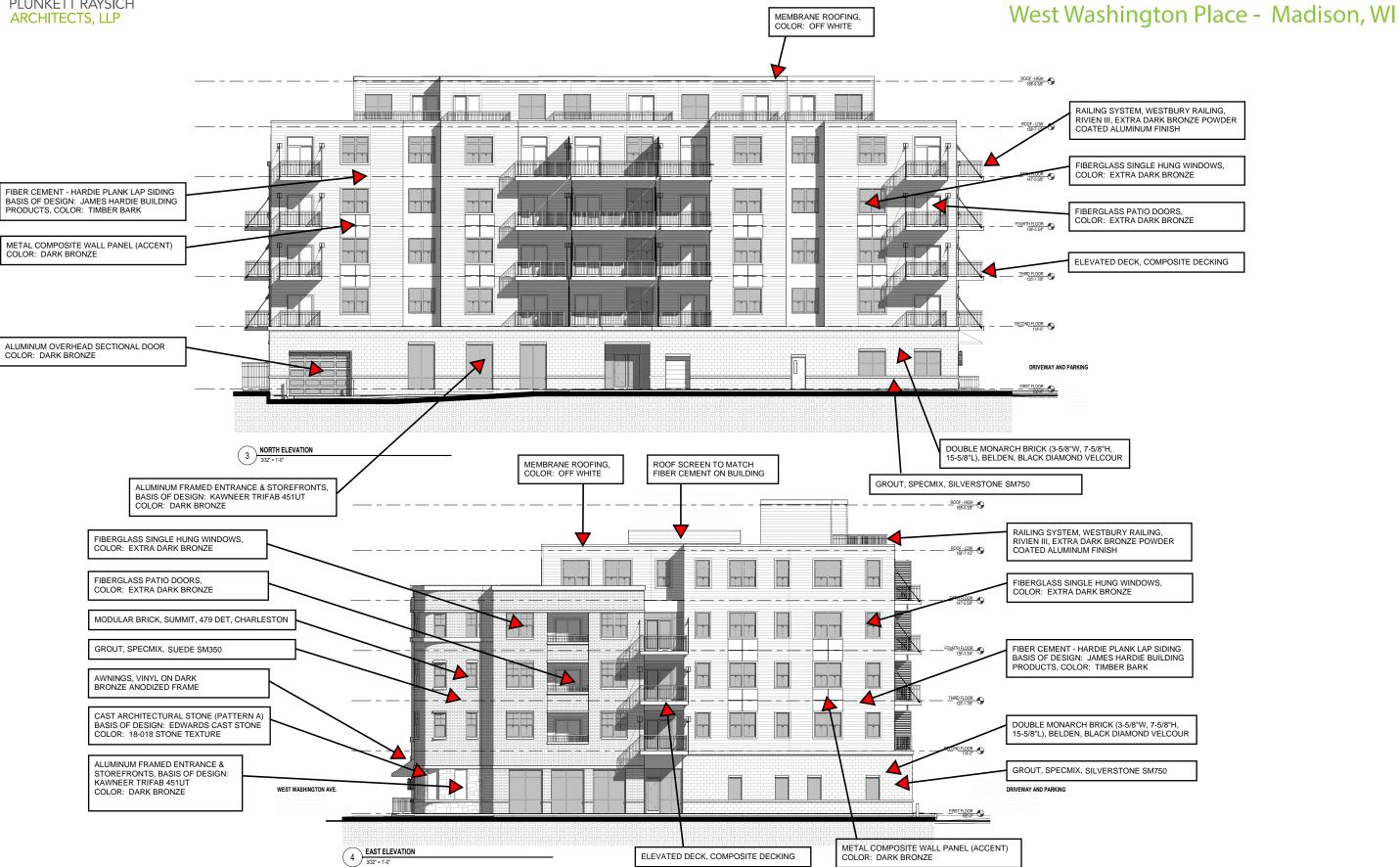






















View from Westerly side toward West Washington Ave.



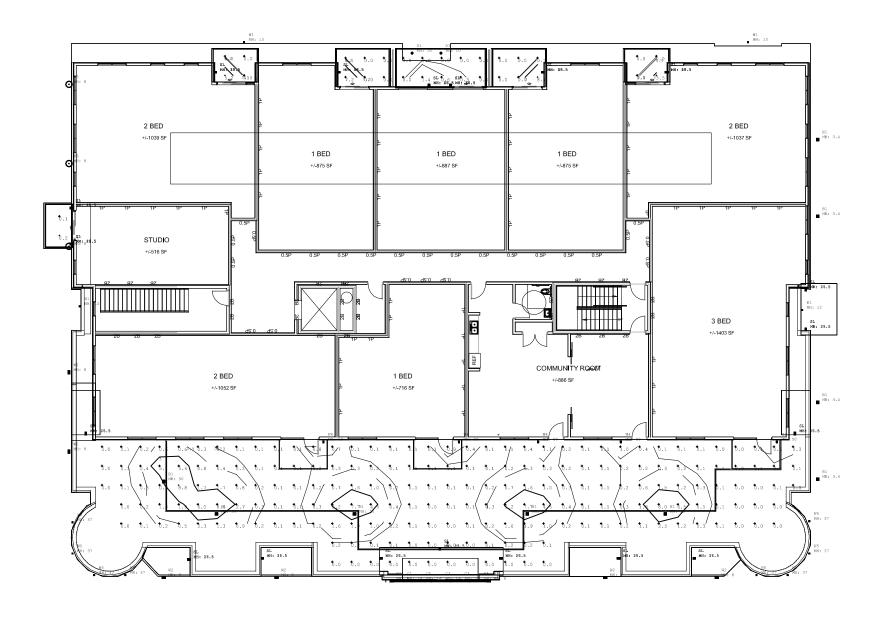
Grade level entry to apartments



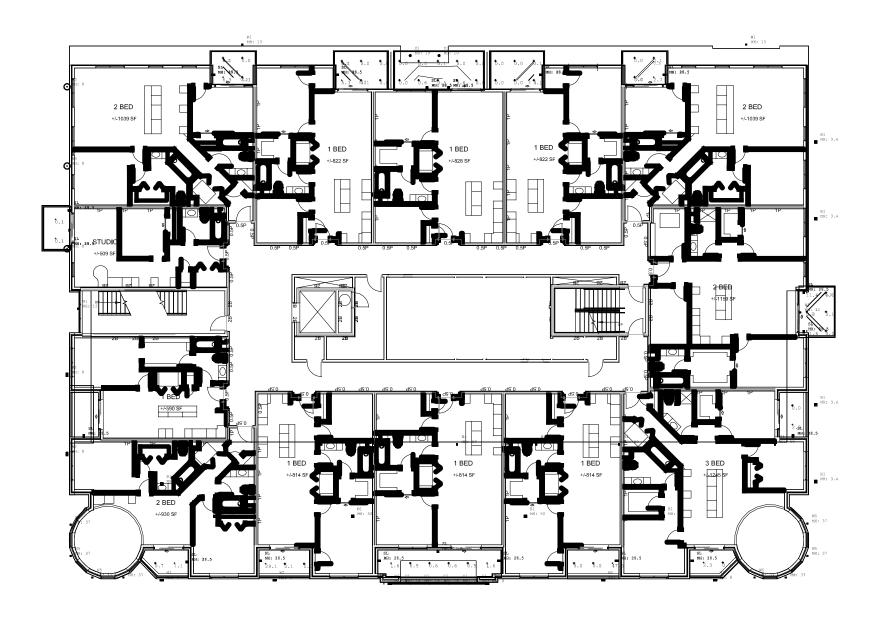
Fifth Floor decks and mechanicals above



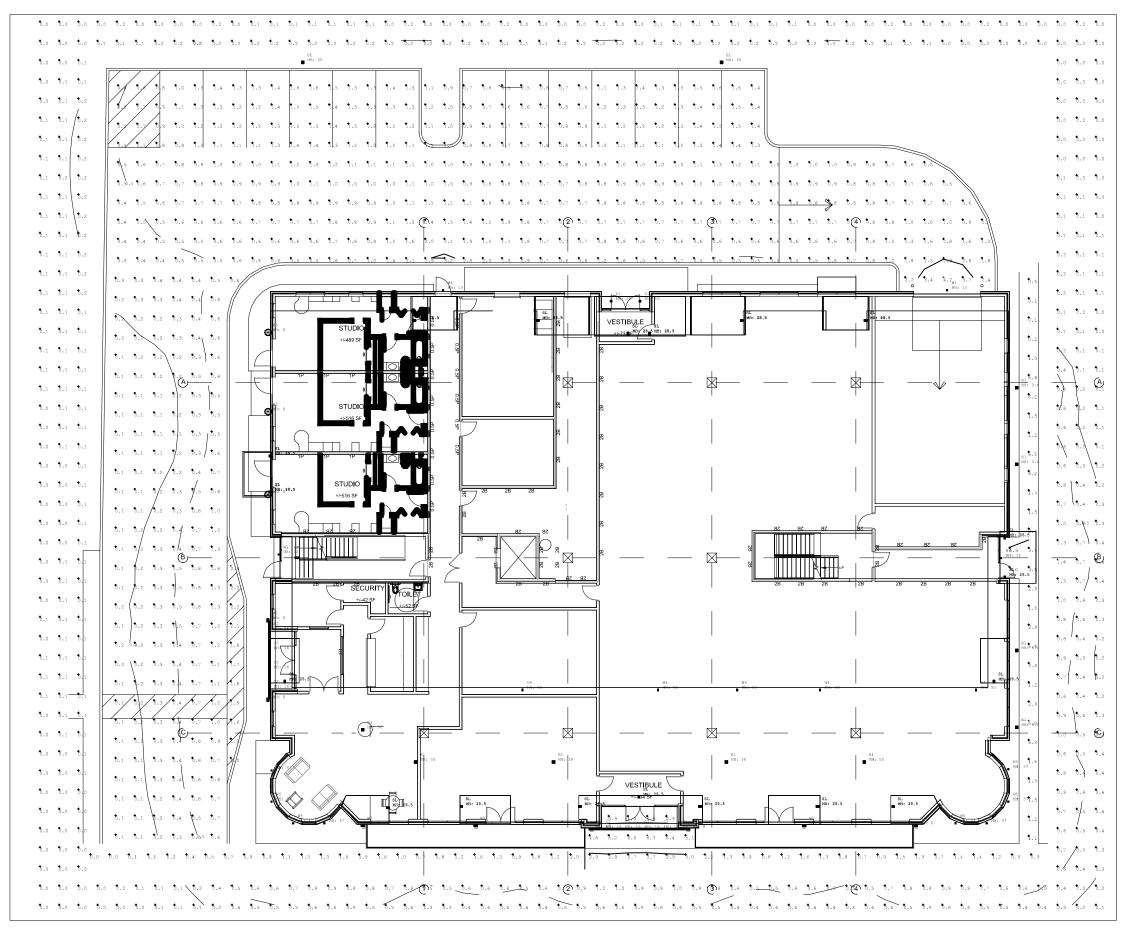
Along West Washington Ave. towards Capital



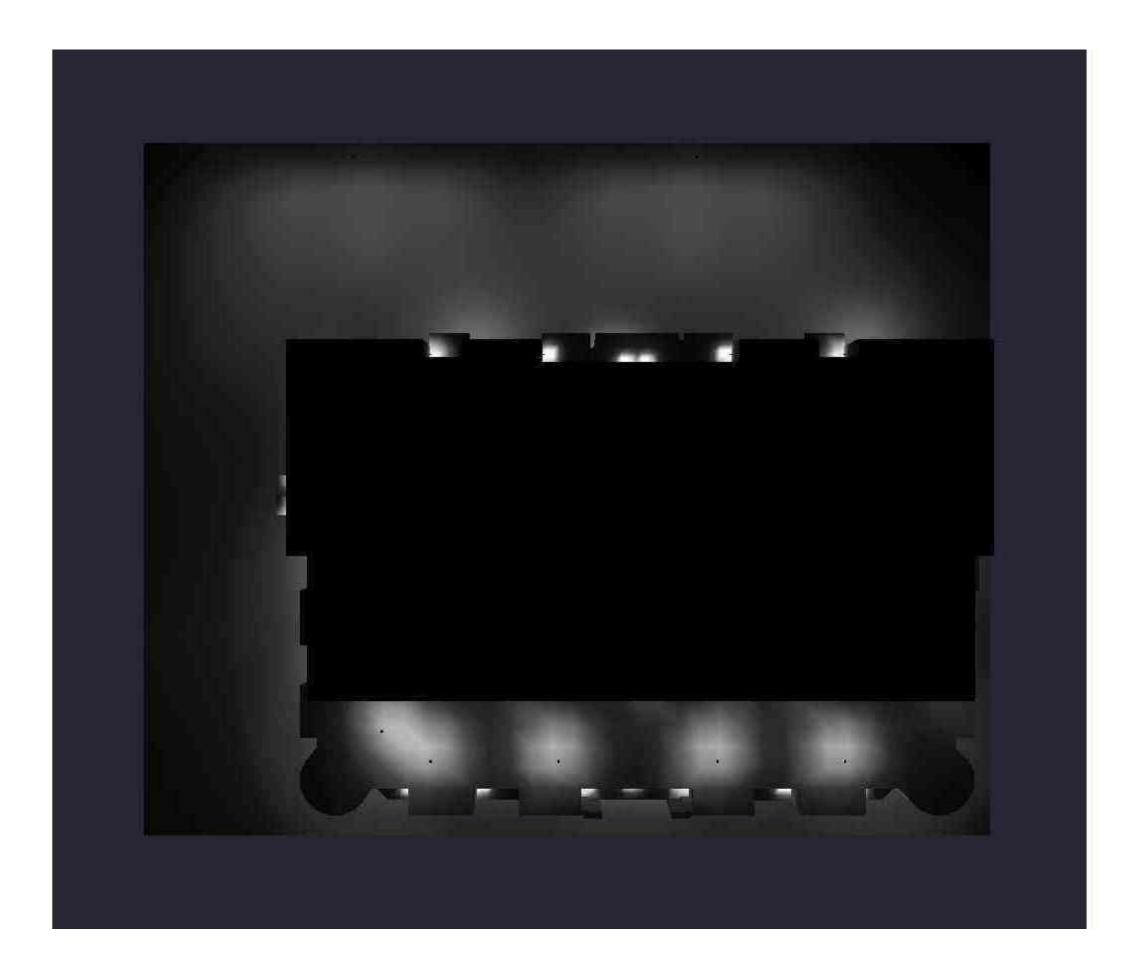
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
5th floor deck	Illuminance	FC	0.72	8.8	0.0	N.A.	N.A.
5th floor deck_1	Illuminance	FC	0.15	0.2	0.1	1.50	2.00
5th floor deck_2	Illuminance	Fc	1.30	5.2	0.0	N.A.	N.A.
5th floor deck_3	Illuminance	Fc	0.82	8.4	0.0	N.A.	N.A.
5th floor deck_4	Illuminance	Fc	0.88	3.5	0.0	N.A.	N.A.



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Balconies	Illuminance	Fc	1.63	6.3	0.0	N.A.	N.A.
Balconies 1	Illuminance	Fc	0.52	5.3	0.0	N.A.	N.A.
Balconies 2	Illuminance	Fc	0.70	2.7	0.0	N.A.	N.A.
Balconies_3	Illuminance	Fc	3.85	11.4	0.0	N.A.	N.A.
Balconies_4	Illuminance	Fc	1.40	2.8	0.0	N.A.	N.A.
Balconies 5	Illuminance	Fc	1.50	2.3	0.7	2.14	3.29
Balconies 6	Illuminance	Fc	0.90	1.1	0.7	1.29	1.57
Balconies 7	Illuminance	Fc	9.73	29.1	0.0	N.A.	N.A.
Balconies 8	Illuminance	Fc	0.90	1.6	0.5	1.80	3.20
Balconies 9	Illuminance	Fc	15.87	47.6	0.0	N.A.	N.A.



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
East Sidewalk	Illuminance	FC	2.96	6.8	0.1	29.60	68.00
Entry Drive	Illuminance	FC	0.46	2.4	0.1	4.60	24.00
Parking Area	Illuminance	Fc	1.00	4.2	0.3	3.33	14.00
Property Line	Illuminance	Fc	0.24	1.4	0.0	N.A.	N.A.
South Sidewalk	Illuminance	Fc	1.72	6.7	0.0	N.A.	N.A.



LIGHTING
FCB6C-36N02





Date:	Approved:
Туре:	
Fixture:	
Project:	

FCB6C-36N02 Exterior die-cast aluminum, 6" nominal diameter bollard with a 360°, 1" high window.

# **SPECIFICATIONS**

PHYSICAL	
dimensions [HxØ]	fixture: 39.55" H x 6.299" Ø
weight	18 lbs
housing	marine grade, corrosion resistant, heavy gauge extruded aluminum
lens	impact resistant, UV stabilized, opal, polycarbonate diffuser
mounting	heavy gauge base bracketing for bollard installation provides a unique mounting solution, so the tower body anchors flush to the ground without the appearance of a base plate, anchor bolts inlcuded (j-box by others)
ingress protection	IP66: dry, damp, or wet locations with extruded silicone gasket to seal out contaminants
finish	six stage chemical iron phosphate substrate pre-treatment process for a UV stable, super durable standard polyester powder coat

PERFORMANCE					
color temperature	2700K	3000K	3500K	4000K	
lumen output	447	471	495	522	
lifetime	> 70,000 hours / L70 o	> 70,000 hours / L70 or better			
color consistency	3-Step MacAdam Ellipse / standard: CRI ≥ 85				
temperature	operating: -13°F to 104°F (-25°C to 40°C)   start up: -13°F to 104°F (-25°C to 40°C)   storage: -40°F to 176°F (-40°C to 80°C)				
junction temperature	73°C @ T <sup>A</sup> 25°C				
warranty	5 year limited warranty	(refer to website for deta	ils)		

ELECTRICAL	
input voltage	Universal 120-277VAC   optional: 347 VAC (integral)   480 VAC (integral)
power supply	Integral Class II, electronic, high power factor > 94% @120V
certification	ETL/cETL Listed
standards	UL1598/CSA C22.2 No. 250.0; UI 8750/CSA C22.2 No. 250.13/IES LM-79/LM-80
power consumption	22W @ 120V - 277V (maximum)
dimming interface	standard: 0-10V (10%)   optional: ELV (120V only)/DMX (integral)/DALI (integral)

**Expanded Disclaimer:** Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserves the right to change lab test details or specifications without notice. Product use certifies agreement to Solid State Luminaires terms and conditions. FCB Series and FCBT Series fixtures are engineered and produced in our Illinois manufacturing facility.



# FCB6C-36N02



# Ordering Information

ORDERING INFO	ORMATIO	ON							
FCB6C-36N02									
SERIES	VOLTAG	E	HEIGHT	SOURCE/TEMPERATURE	LED LUMENS	FINIS	SH	ACCESS	SORIES
FCB6C-36N02	UNV	UNV 120V-277V	<b>39</b> 39.5"	LED 27K	<b>522</b> Lumens (22W)	BK	Black	LD	LED Dimming (0-10V) standard
	347V*	347V* AC (integral)		3K		BZ	Bronze	ELV*	ELV Dimming (120 only)
	480V*	480V* AC (integral)		35K		SL	Silver	DMX*	DMX Dimming* (integral)
				4K		WH	White	DALI*	DALI Dimming* (integral)
						CC	Custom Color	PE	Photo Eye
								SP20	20kv Surge Protection
								BBU	Battery Backup, Integral
								* consul	t factory for lead time

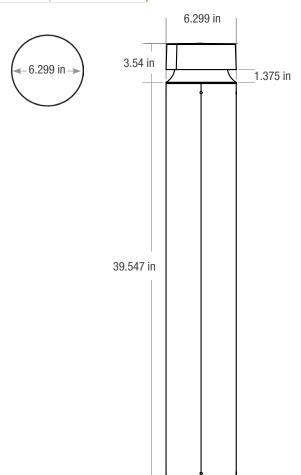


# Physical



### **PRODUCT DIMENSIONS - STANDARD PRODUCT**

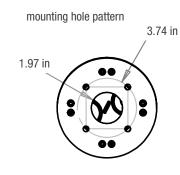
height	39.547" H
diameter	6.299" Ø



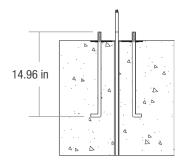
# **MOUNTING** - *j-box sold by others*

mounting plate diameter

6.299" Ø



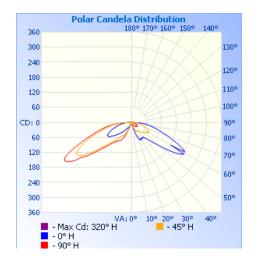
concrete minimum depth 12"; 14.96" anchor bolts are above cement, see installation instructions for detailed information



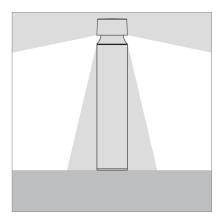
# Photometry



### **OPTICAL DISTRIBUTION**



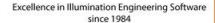






JS Rev. 2/5/2019







sample banner copyright 2013 Lighting Analysts, Inc.

# Photometric Report (Type C)

Filename: B1 FCB6C-36N02-3K-522 Lumens.IES

[TEST] 3495

[MANUFAC] FC Lighting

[LUMCAT] FCB6C-36N02-3K-522 Lumens

Maximum Candela = 352.69 at 50 H 60 V

#### Classification:

Road Classification: Type IV, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.01

Luminaire Efficacy Rating (LER): 24

Indoor Classification: Direct

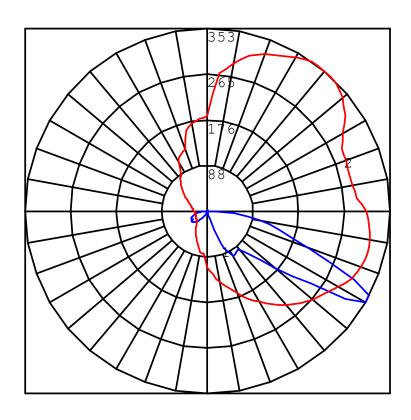
BUG Rating : B0-U1-G1

#### Polar Candela Curves:

Vertical Plane Through:
1) 50 - 230 Horizontal

Horizontal Cone Through:

2) 60 Vertical









sample banner copyright 2013 Lighting Analysts, Inc.

# Photometric Report (Type C)

Filename: B1 FCB6C-36N02-3K-522 Lumens.IES

[TEST] 3495

[MANUFAC] FC Lighting

[LUMCAT] FCB6C-36N02-3K-522 Lumens

Maximum Candela = 352.69 at 50 H 60 V

#### Classification:

Road Classification: Type IV, Short, N.A. (deprecated)

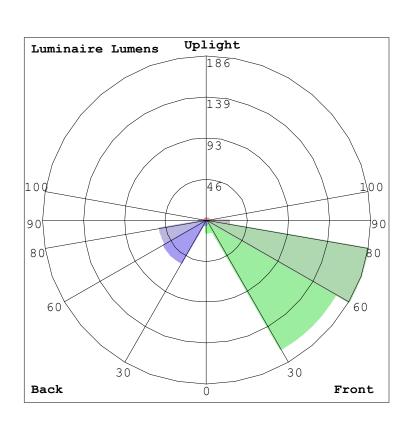
Upward Waste Light Ratio: 0.01 Luminaire Efficacy Rating (LER): 24

Indoor Classification: Direct

BUG Rating : B0-U1-G1

#### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	13.9	N.A.	2.7
FM (30-60)	168.7	N.A.	32.4
FH (60-80)	185.9	N.A.	35.7
FVH (80-90)	25.4	N.A.	4.9
BL (0-30)	5.3	N.A.	1.0
BM (30-60)	55.9	N.A.	10.7
BH (60-80)	53.5	N.A.	10.3
BVH (80-90)	8.7	N.A.	1.7
UL (90-100)	1.1	N.A.	0.2
UH (100-180)	1.8	N.A.	0.4
Total	520.2	N.A.	100.0
BUG Rating	B0-U1-G1		







Date:	Approved:
Туре:	
Fixture:	
Project:	

The **ECVLWET** is similar in use to the other Wet Cove series but with a lower lumen output for a lower placement above the ground, approximately 10-15 feet high. ECVLWET comes in 1 ft, 4 ft or 6 ft nominal lengths and 2700K, 3000K, 3500K, 4000K or 5000K color temperatures. The housing is constructed of extruded aluminum with tooled end caps and is IP66 rated for interior & exterior use. Features IP68 line voltage Plug N' Play connectors for easy installation. Power supply is integral, no remote driver required. Universal orientation fixture; up, down, horizontal or vertical positioning with 9 optic choices. Flicker free dimmable to 5% full brightness with ELV trailing edge dimming.

#### **SPECIFICATIONS**

PHYSICAL			
beam spread (a), (axb)	B 30° x 80°   120°		
LEDs per foot	14		
lengths/dimensions [LxDxH]	12.25" x 1.77" x 1.9" 47" x 1.77" x 1.9" 70.25" x 1.77" x 1.9"		
weight	1.3 lbs		
housing	truded aluminum housing with moulded end caps		
lens	clear, tempered glass with a frosted edge		
mounting	ADBW2 surface mount with standard adjustable bracket (+/- 45°), ADBW2-90 optional adj. bracket (+/- 90°)		
ingress protection	P66 rated for wet, exterior location (Connectors IP68)		
vibration resistance	compliant with 3G ANSI C136.31		
fixture connections	Twist-lock IP68 rated, CCC		

PERFORMANCE							
color temperature*	2700K	2700K 3000K 3500K 4000K 5000K					
lumen output (per foot)	276 lm	288 lm	295 lm	313 lm	326 lm		
lifetime	> 70,000 hours / L70 o	> 70,000 hours / L70 or better					
color consistency	Step 3 McAdams Ellipse / CRI ≥ 80; 90 CRI optional						
temperature	operating: -13°F to 104°F (-25°C to 40°C)   start up: -13°F to 104°F (-25°C to 40°C)   storage: -40°F to 176°F (-40°C to 80°C)						
junction temperature	69°C @ T <sup>A</sup> 25°C						
warranty	5 year limited warranty	(refer to website for deta	ils)				

ELECTRICAL	
input voltage	Universal 120–277V AC
power supply	integral Class II, electronic high-power factor > 94% @120V
certification	ETL / cETL listed, CEC Title 24 - JA8 Compliant
standards	UL1598/CSA C22.2 No. 250.0; IESLM-79/LM-80; FCC Part 15
power consumption	3.5W/ft @ 120V
dimming interface	ELV (reverse phase/trailing edge) ≤ 5%

<sup>\*</sup> consult factory for additional CCT LED's

Expanded Disclaimer: Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserves the right to change lab test details or specifications without notice. Product use certifies agreement to Solid State Luminaires terms and conditions. FCF1100 Series Flood Lights are engineered and produced in our Illinois manufacturing facility.



**Specification Sheet** 







ECVLWET-1.5						
odel	length	CCT		CRI	optics	options
CVLWET1.5 eCOVELINE VI	VET 1 12 in. [305 mm] 4 46.8 in. [1189 mm] 6 70 in. [1778 mm]	WHITE LIGHT           27K         2700K           3K         3000K           35K         3500K           4K         4000K           5K         5000K	MONO COLOR  RED Red GRN Green BLU Blue AMB Amber PINK Pink VIOL Violet LTBLU Light Blue SPGRN Spring Green	80CRI 80 CRI  CR80 Standard  90CRI 90 CRI	3080 30° x80° beam 120 120° x120° beam	WCHS Black Louvre W/House Shield
ccessories (Indicate t	he quantity needed for each item.)	<b>REQUIRED</b> : Starter Ca	YELLW Yellow GLDYW Golden Yellow	or Cap (TCAPW2) for	every run. <b>Maximum Run Le</b>	<b>ngth</b> = 100 feet (120V)
CCESSORIES (Indicate t SC10W 10 ft. Start TCAPW Terminato	ter Connection Cord	REQUIRED: Starter Ca _ EC12W 12 in. Ext _ EC24W 24 in. Ext _ EC60W 60 in. Ext	YELLW Yellow GLDYW Golden Yellow able (SC10W2) and Terminat tension Cord tension Cord	<b>10VELVDIM</b> 0-10	OV ELV (Interior Rated Only) Dim	
SC10W 10 ft. Start TCAPW Terminato DBW2 Included With	ter Connection Cord r Cap th Fixture	_ EC12W 12 in. Ext _ EC24W 24 in. Ext _ EC60W 60 in. Ext	YELLW Yellow GLDYW Golden Yellow able (SC10W2) and Terminat tension Cord tension Cord tension Cord	<b>10VELVDIM</b> 0-10 <b>MC-10VELDIM</b> 0-	OV ELV (Interior Rated Only) Dim	Module (1 module per run)
SC10W 10 ft. Start TCAPW Terminato  DBW2 Included With  Counting Accessori	ter Connection Cord  r Cap  th Fixture  ies (requirements vary for each	_ EC12W 12 in. Ext _ EC24W 24 in. Ext _ EC60W 60 in. Ext	YELLW Yellow GLDYW Golden Yellow able (SC10W2) and Terminal tension Cord tension Cord tension Cord tension Cord	10VELVDIM	OV ELV <i>(Interior Rated Only)</i> Dim -10V ELV Dim Module w/Interio	Module (1 module per run) or Rated Enclosure (1 module per run)
SC10W to ft. Start TCAPW Terminato  DBW2 Included Wit  lounting Accessori  ADBW2 Adjustable	ter Connection Cord r Cap th Fixture	_ EC12W 12 in. Ext _ EC24W 24 in. Ext _ EC60W 60 in. Ext ch fixture ordered -	YELLW Yellow GLDYW Golden Yellow able (SC10W2) and Terminat tension Cord tension Cord tension Cord	10VELVDIM	OV ELV (Interior Rated Only) Dim	Module (1 module per run)

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserve the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting and Solid State Luminaires terms and conditions.



**Specification Sheet** 

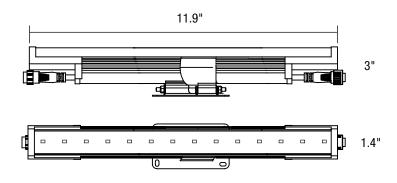
JA Rev. 07/17/2019

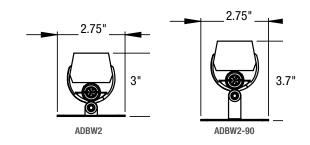
# **eCOVELINE WET 1.5**

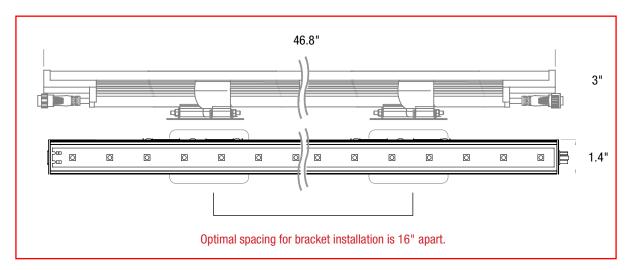
# Standard Dimensions

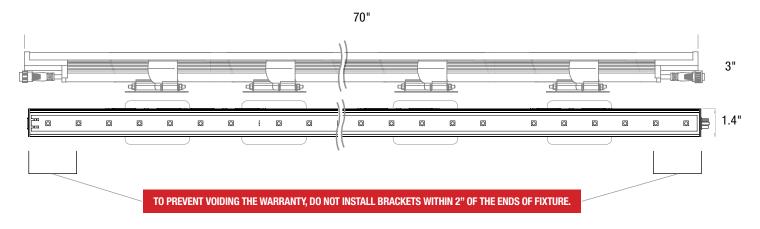
#### **DIMENSIONS WITH STANDARD BRACKET**

305 mm [12 in ] / 1189 mm [46.8 in ] / 1778 mm [70 in ]



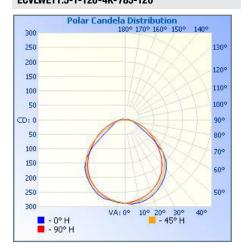






# Photometry

#### ECVLWET1.5-1-120-4K-785-120°



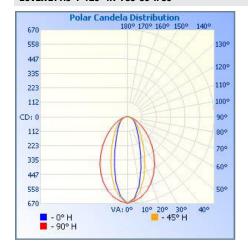
#### **Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	224.8	28.6%
0-40	367.4	46.8%
0-60	626.8	79.8%
60-90	135.7	17.3%
70-100	75.3	9.6%
90-120	22.4	2.9%
0-90	762.6	97.1%
90-180	22.4	2.9%
0-180	785.0	100%
Efficiency 7	Total: 99%	

#### Illuminance at a Distance



#### ECVLWET1.5-1-120-4K-785-30°x 80°



#### **Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	342.3	43.7%
0-40	477.6	61%
0-60	673.2	86%
60-90	104.8	13.4%
70-100	50.7	6.5%
90-120	5.1	.6%
0-90	778.0	99.4%
90-180	5.1	.6%
0-180	783.0	100%

#### Efficiency Total: 99%

#### Illuminance at a Distance

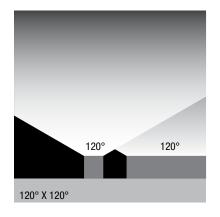
	Center Beam fc	Beam Wid	ith
1.7ft	231 fc	1.1 ft	2.6 ft
3,3ft	61.2 fc	2.1 ft	5.0 ft
5.0A	26.7 fc	3.2 ft	7.6 ft
6.7ft	14.8 fc	4.3 ft	10.1 ft
8.3A	9.67 fc	5.4 ft	12.5 ft
10.0A	6.66 fc	6.5 ft	15.1 ft

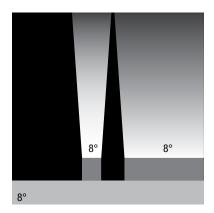


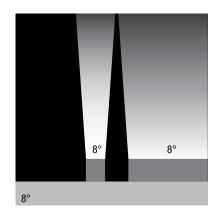
# Photometry



### eCVL WET AVAILABLE OPTICS







### PERFORMANCE

	Connected		Del	ivered Lum	ens	
Model	Wattage	2400K	2700K	3000K	3500K	4000K
ECVLWET1.5-1	3.5	255	273	282	295	300
ECVLWET1.5-4	14	1020	1092	1128	1180	1200
ECVLWET1.5-6	21	1530	1638	1692	1770	1800

### DIMMING

### TRIAC, REVERSE PHASE DIMMING

Model	Description
DELV	Lutron Diva Dimmer 300P
SELV	Lutron Skylark Dimmer 153P
SCL	Lutron Skylark Dimmer 300P



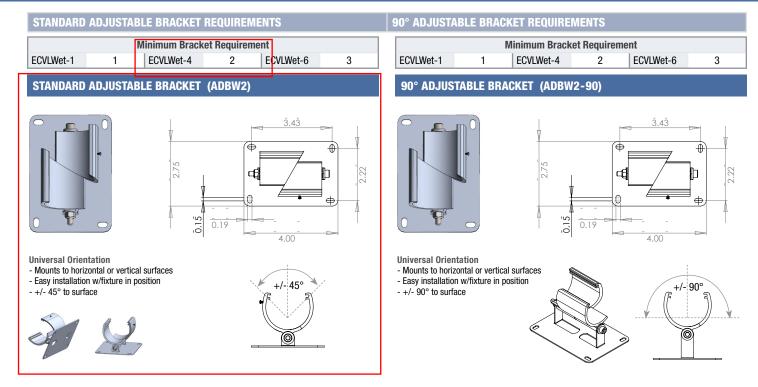


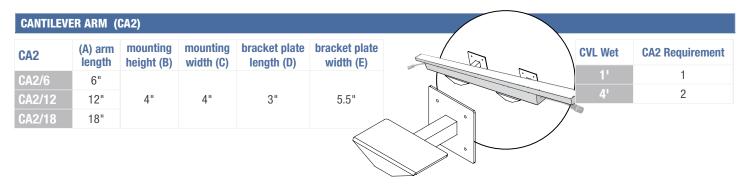


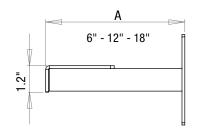
Dimmers sold by others.

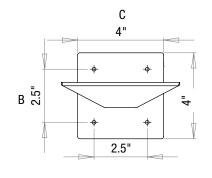
**Specification Sheet** 

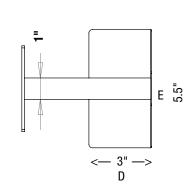














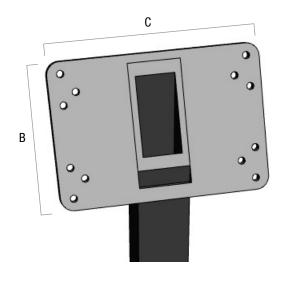
© Solid State Luminaires

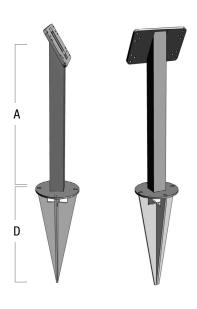
**Specification Sheet** 

# Mounting Option Accessories

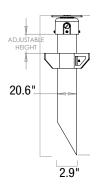


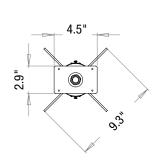
LS	(A) arm length	bracket plate length (B)	bracket plate width (C)	spike depth (D)
LS/6	6"			
LS/12	12"	3"	5.5"	6"
LS/18	18"			

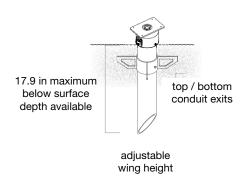




### **HEAVE DUTY LANDSCAPE SPIKE - CWLS**



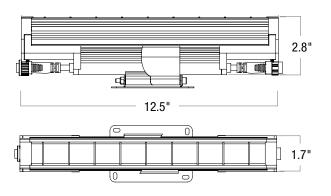


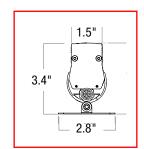


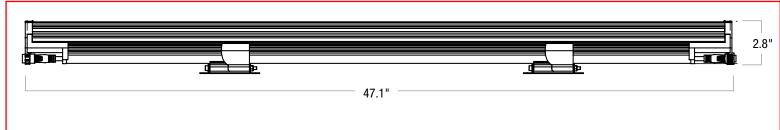
# **eCOVELINE WET 1.5**

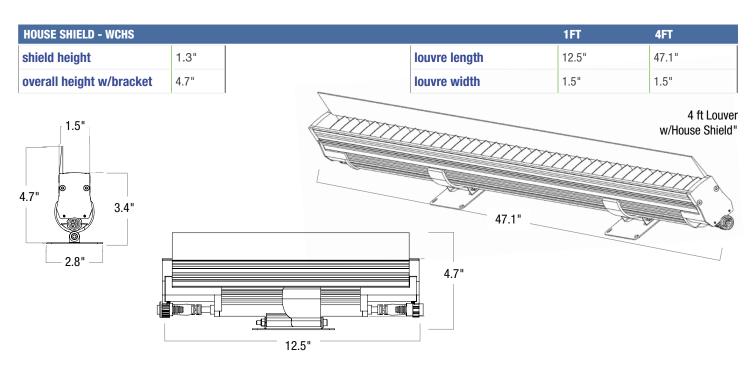
# Accessories







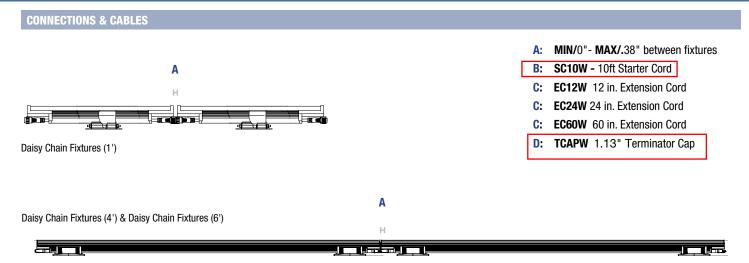


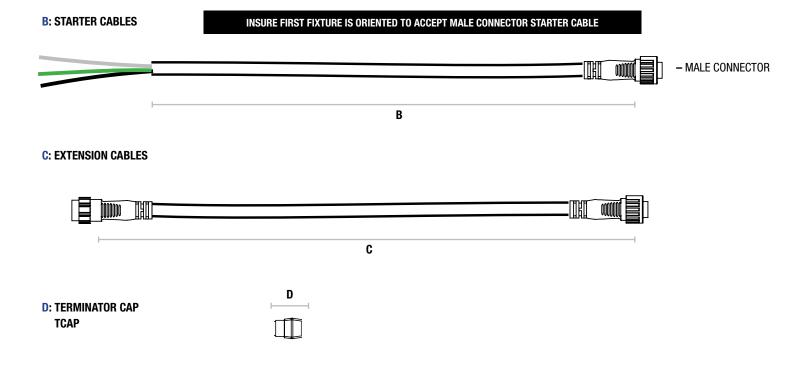


a US Commercial Lighting Manufacturer Since 1982

**Specification Sheet** 





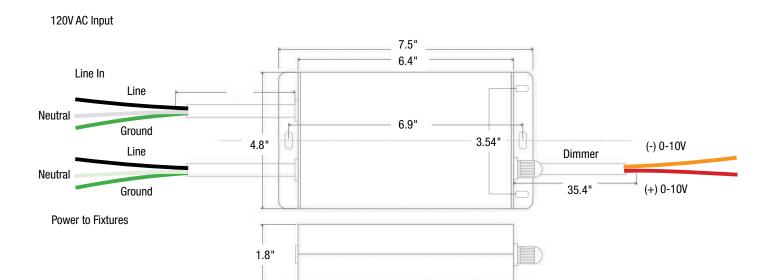


# **eCOVELINE WET 1.5**

# Control Components



#### 0-10V ELV DIMMING MODULE (10VELV DIM)



### CONTROLS



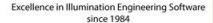
Use of exterior rated, IP66, IP67, or IP68 enclosure for Dimming Module is recommended. Recommended controls are interior rated only.

#### TRIAC, REVERSE PHASE DIMMING

Model	Description			
DELV	Lutron Diva Dimmer 300P	1		
SELV	Lutron Skylark Dimmer 153P			
SCL	Lutron Skylark Dimmer 300P	DELV	SELV	SCL

Dimmers are sold by others. FC|SSL does not recommend dimmers that have not been tested with their fixtures.







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# Photometric Report (Type C)

Filename: C1 Photometric test Report#2982 ECVLXWET1.5-4-UNV-35K-30x80.IES

[TEST] 2982

[MANUFAC] FC Lighting

[LUMCAT] ECVLXWET1.5-4-UNV-35K-30x80

Maximum Candela = 2324.22 at 60 H 1 V

#### Classification:

Road Classification: Type I, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 91

Indoor Classification: Direct

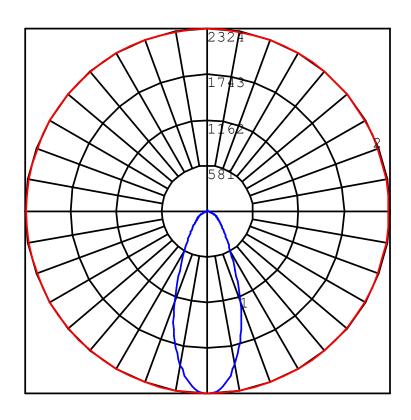
BUG Rating : B1-U1-G0

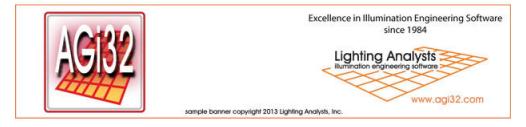
#### Polar Candela Curves:

Vertical Plane Through:
1) 60 - 240 Horizontal

Horizontal Cone Through:

2) 1 Vertical





# Photometric Report (Type C)

Filename: C1 Photometric test Report#2982 ECVLXWET1.5-4-UNV-35K-30x80.IES

[TEST] 2982

[MANUFAC] FC Lighting

[LUMCAT] ECVLXWET1.5-4-UNV-35K-30x80

Maximum Candela = 2324.22 at 60 H 1 V

#### Classification:

Road Classification: Type I, Very Short, N.A. (deprecated)

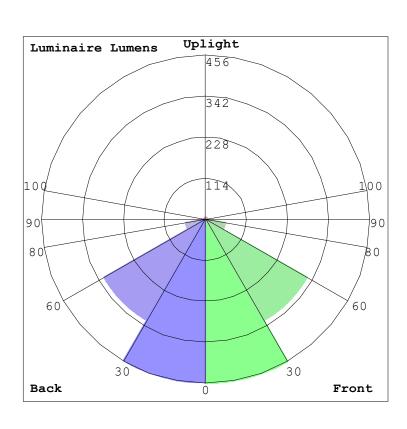
Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 91

Indoor Classification: Direct

BUG Rating : B1-U1-G0

#### LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	455.9	N.A.	27.2
FM (30-60)	324.4	N.A.	19.4
FH (60-80)	55.4	N.A.	3.3
FVH (80-90)	1.8	N.A.	0.1
BL (0-30)	454.1	N.A.	27.1
BM (30-60)	324.4	N.A.	19.4
BH (60-80)	55.4	N.A.	3.3
BVH (80-90)	1.8	N.A.	0.1
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	3.1	N.A.	0.2
Total	1676.3	N.A.	100.0
BUG Rating	B1-U1-G0		



# **Halo Commercial**

#### DESCRIPTION

Recessed 4-inch LED downlight provides narrow, medium or wide distribution patterns ideal for general area lighting. Lumen packages range from 1000 to 4000 lumens in color temperatures of 2700K, 3000K, 3500K, and 4000K; in 80 or 90CRI. Luminaire is airtight and can be installed in new construction or below the finished ceiling in remodeling applications. Intended applications include office spaces, healthcare, hospitality, schools, house of worship and other institutional uses.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### SPECIFICATION FEATURES

#### **Housing Frame**

- Boat shaped galvanized steel plaster frame with adjustable plaster lip accommodates1/2" to 1-1/2" thick ceilings
- May be installed in new construction; or from below the finished (non-accessible) ceiling in remodeling.
- Provided with (2) old work remodel clips to secure the frame to the ceiling

#### **Universal Mounting Bracket**

- Mounting bracket adjusts 2" vertically from above the ceiling or thru the aperture
- Use with the included mounting bars or with ½" EMT
- Removable to facilitate installation from below the finished ceiling

#### **Mounting Bars**

- Captive preinstalled No Fuss™ mounting bars lock to tee grid with screwdriver or pliers
- Centering mechanism allows for consistent positioning of fixtures

#### **LED Module**

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity
- 90 CRI, R9>50 (refer to chromaticity tech sheet online for details www.eaton.com/lighting)
- Correlated color temperature options
  - 2700K
  - 3000K
  - 3500K
  - 4000K
- Passive thermal management achieves L70 at 50,000 hours in IC and non IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

### **Lumen Options**

- Nominal lumen values
  - 1000 lm
  - 1500 lm
  - 2000 lm
  - 3000 lm
  - 4000 lm

#### Reflector

- Self-flanged aluminum reflectors are available in narrow, medium or wide distribution patterns
- Medium distribution polymer nonconductive reflector may be used to meet local codes for 'dead front' applications
- Wall wash reflector features a rotatable insert assembly with integral linear spread lens for alignment of vertical illumination.
- Reflectors attach to LED module with (3) speed clamps
- Multiple painted or plated finishes are available

#### **Reflector / Module Retention**

 Reflector / module assembly is securely retained in the housing with (2) torsion springs

#### Driver

- Field replaceable constant current driver provides low noise operation
- UNV 120-277VAC 50/60Hz input standard
- 347VAC 50/60Hz input option (Canada only)
- Continuous, flicker-free 1% 100% dimming with 0 -10V analog control
- Optional low voltage DC driver for use with Eaton's DLVP distributed low voltage power system combines power and control

#### **Emergency Option**

- Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch

#### Connected Lighting System Options

- WaveLinx tile mount daylight sensor includes control module, sensor and cable providing comprehensive lighting control
- LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and control kit

#### Junction Box

- Galvanized steel junction box
- 20in<sup>3</sup> internal volume excluding voltage barrier
- 25 in<sup>3</sup> internal total volume
- Voltage barrier for 0-10V dimming wires [occupies (1) 1/2" pry-out space]
- Listed for (8) #12 AWG (four in, four out) 90° C conductors and feed-thru branch wiring
- (3) 1/2" and (2) 3/4" trade size pry-outs available
- (3) 4-port push wire nuts for mains voltage, with 1-port for fixture connection

#### Compliance

- cULus damp and wet location listed in protected ceilings; and IP20 - Above finished ceiling; IP64 - Below finished ceiling
- Non-IC rated for 2000, 3000 and 4000 lumen models. Insulation must be kept 3" from top and sides
- IC rated for 1000 and 1500 lumen models, and suitable for direct contact to air permeable insulation
- Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V & Class B at 120V
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance of IES LM-79-08
- Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
- 1000 and 1500 lumen 90CRI ICAT models may be used to comply with State of California Title 24 residential code, with JA8-2016-E database certification
- May be used to comply with State of California Title 24 non-residential code, as a dimmable LED luminaire
- ENERGY STAR certified, reference certified light fixtures database

#### Warranty

 Five year limited warranty, consult website for details. www.eaton.com/lighting/legal



HC4
Housing Frame

HM4 LED Module

> 41 41PS

**Series Reflectors** 

4-inch Lens Downlight and Lens Wall Wash

1000/1500/2000/ 3000/4000 Lumen









#### **ENERGY DATA**

Series	1000	lumen		
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.085	0.042		
Input Power (W)	10.1	10.9		
In-rush Current (A)	0.644	1.95		
In-rush Duration (ms)	0.125	0.24		
THDi (%)	8.6	15.6		
PF:	≥ (	≥ 0.90		
(Nominal input 120-277VAC & 100% of rated output power)				
Minimum starting temperatur	e -40°C (-40°F)			
Sound Rating: Class A stands	ards			

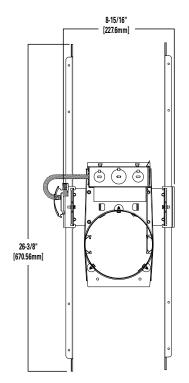
Series	1500 lumen				
Input Voltage (VAC)	120V	277V			
Input Current (A)	0.119	0.055			
Input Power (W)	14.2	14.9			
In-rush Current (A)	0.212	0.85			
In-rush Duration (ms)	0.28	0.32			
THDi (%)	7.8	16.3			
PF:	PF: ≥ 0.90				
(Nominal input 120-277VAC & 1	00% of rated οι	itput power)			
Minimum starting temperature -40°C (-40°F)					
Sound Rating: Class A standards					

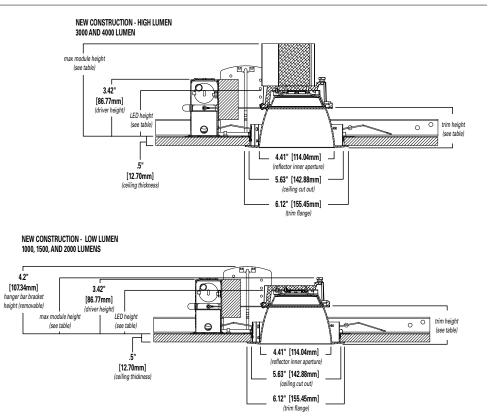
Series	2000	lumen		
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.176	0.082		
Input Power (W)	21.1	21.4		
In-rush Current (A)	0.588	0.624		
In-rush Duration (ms)	0.3	0.38		
THDi (%)	8.8	11.2		
PF: ≥ 0.90				
(Nominal input 120-277VAC & 100% of rated output power)				
Minimum starting temperatur	re -40°C (-40°F)			
Sound Rating: Class A stand	ards			

Series	3000	lumen		
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.228	0.102		
Input Power (W)	27.2	27		
In-rush Current (A)	0.898	1.7		
In-rush Duration (ms)	0.36	0.38		
THDi (%)	9.7	9.3		
PF:	≥ 0.90			
(Nominal input 120-277VAC & 100% of rated output power)				
Minimum starting temperature -40°C (-40°F)				
Sound Rating: Class A stand	ards			

Series	4000 lumen			
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.345	0.15		
Input Power (W)	41.3	40.7		
In-rush Current (A)	1.05	2.23		
In-rush Duration (ms)	0.32	0.34		
THDi (%)	10.06	14.01		
PF:	≥ 0.90			
(Nominal input 120-277VAC & 100% of rated output power)				
Minimum starting temperature -40°C (-40°F)				
Sound Rating: Class A standards				

#### DIMENSIONS





#### High Lumen (3000 & 4000 Lumens)

	Distribution	Max. Module Height	Trim Height	LED Height
	Narrow	5.6"	2.5"	2.9"
Γ	Medium	5.7″	2.6"	3.0"
_	Wide	5.5"	2.4"	2.8"
	Baffle	5.5"	2.4"	2.8"

Low Lumen (1000, 1500 & 2000 Lumens)\*

ı	Max. Module Height	Trim Height	LED Height
]_	3.6"	2.5"	2.7"
	3.7"	2.6"	2.8"
Ι.	3.5"	2.4"	2.6"
	3.1"	2.4"	2.6"



\*Max. height w/hanger bar bracket 4.2"

#### **Ordering Information**

Sample Number: HC420D010REM7 - HM412835 - 41MDC A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Input / Control	
HC4 = 4" new construction and remodeler housing  HC4CP = 4" new construction and remodeler housing,  CCEA Chicago Plenum rated	10	D010 = 120-277VAC 50/60Hz 0-10V analog 1%-100% dimming D010347 = 347VAC 50/60Hz 0-10V analog 1%-100% dimming (Canada only) 1 DLV = Distributed Low Voltage driver, 1%-100% dimming DLV for use with Eaton's DLVP system only. Refer to DLVP low-voltage power module and DLVP specifications for details.1	
Options		Accessories	
REM7 = 7 watt emergency module with remote test / indicator light, use with D010 only <sup>1</sup> REM14 = 14 watt emergency module with remote test / indicator light, use with D010 only <sup>1</sup> REMV7 = 7 watt emergency module with remote test / indicator light, use with DLV only <sup>1</sup> , <sup>2</sup> REMV14 = 14 watt emergency module with remote test / indicator light, use with DLV only <sup>1</sup> , <sup>2</sup> IEM7 = integral 7 watt emergency module with integral test / indicator light, use with D010 only <sup>1</sup> IEM14 = integral 14 watt emergency module with integral test / indicator light, use with D010 only <sup>1</sup> IEMV19 = integral 7 watt emergency module with integral test / indicator light, use with D10 only <sup>1</sup> , <sup>2</sup> IEMV14 = integral 14 watt emergency module with integral test / indicator light, use with DLV only <sup>1</sup> , <sup>2</sup> IEMV19 = factory installed LumaWatt Pro wireless tile mount sensor kit, use with D010 only <sup>1</sup> SWPD1 = factory installed WaveLinx tile mount daylight sensor, includes control module, sensor, and cable, use with D010 only <sup>1</sup>		HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA PORLWTPD1 = LumalWatt Pro wireless sensor kit, field installed, use with D010 only 1 TMSWPD1 = WaveLinx wireless sensor kit, field installed, use with D010 only 1	

LED Module	Lumens	CRI/CCT
HM4 = 4" LED module	12_1000, 1500 and 2000 lumens (nominal), use with HC410*, HC415*, HC420* housings 34=3000 and 4000 lumens (nominal), use with HC430*, HC440* housings	827 = 80 CRI (minimum), 2700K CCT  830

Reflector	Distribution <sup>3</sup>	Finish	Flange	Accessories
41 = 4" conical reflector	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White (white flange)	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	<b>41RWWPK</b> = rotatable wall wash insert for 4" reflector –replacement part kit

Baffle	Distribution <sup>3</sup>	Finish	Flange	Accessories
<b>41</b> = 4" baffle reflector	WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle (white flange) WB = White baffle (white flange)	Blank = White flange standard with BB, & WB	41RWWPK = rotatable wall wash insert for 4" reflector –replacement part kit

IEM Reflector	Distribution <sup>3</sup>	Finish	Flange	Integral Emergency
<b>41</b> = 4" conical reflector for integral emergency only	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal)	C = Specular clear H = Semi-specular clear W = White (white flange)	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	<b>IEM</b> = Reflector for integral emergency only

IEM Baffle	Distribution <sup>3</sup>	Finish	Flange	Integral Emergency
<b>41</b> = 4" baffle reflector for integral emergency only	<b>WD</b> = wide 75° beam angle 1.24 SC (nominal)	BB = Black baffle (white flange) WB = White baffle (white flange)	Blank = White flange standard with BB, & WB	<b>IEM</b> = Reflector for integral emergency only

Reflector	Distribution <sup>3</sup>	Finish	Flange
<b>41PS</b> = 4" non-conductive polymer 'dead front' conical reflector <sup>4</sup>	MD = medium 60° beam angle 1.00 SC (nominal)	<b>W</b> = White (white flange)	Blank = White flange standard with W reflector

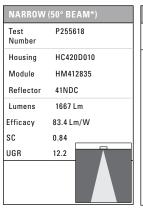
#### Notes:

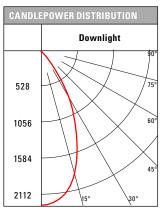
- 1. Not available with CP version
  2. ULus for U.S. only
  3. Values are nominal for white reflector, others may vary.
  4. 41PS reflector only available in NON-IC environments and up to 3000 lumens.



#### **PHOTOMETRY**

#### NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K





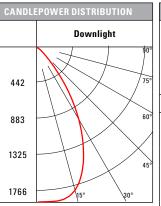
CONE OF LIGHT				
000				
МН	FC	L	W	
5.5'	69.8	4.4	4.4	
7'	43.1	5.6	5.6	
8'	33	6.4	6.4	
9'	26.1	7.2	7.2	
10'	21.1	8.2	8.2	
12' 14.7 9.8 9.8				

CANDEL	A TABLE	ZONALL	U
Degrees Vertical	Candela	Zone	
0	2112	0-30	
5	2079	0-30	
15	1784	0-40	
25	1157	0 .0	
35	534	0-60	
45	116		
55	13	0-90	
65	0		
75	0	90-180	
85	0		
90	0	0-180	

ONAL L	.UMEN SU	MMARY	LUMINANO	CE
Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
0-30	1219	73.1	45	15974
0-40	1553	93.1	55	2141
0-60	1666	99.9		
0-90	1667	100	65	0
0-180	0	0	75	0
0-180	1667	100	85	0

#### MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM	60° BEAM*)
Test Number	P255818
Housing	HC420D010
Module	HM412835
Reflector	41MDC
Lumens	1793 Lm
Efficacy	89.7 Lm/W
sc	1.0
UGR	13.6



	CONE OF LIGHT					
	000					
	МН	FC	L	W		
	5.5'	58.2	5.2	5.2		
1	7'	35.9	6.6	6.6		
	8'	27.5	7.6	7.6		
	9'	21.7	8.6	8.6		
	10'	17.6	9.6	9.6		
•	12'	12.2	11.6	11.6		

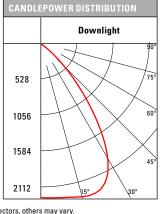
		_
CANDEL	A TABLE	Z
Degrees Vertical	Candela	
0	1761	
5	1764	
15	1686	
25	1257	
35	655	
45	164	
55	28	
65	8	
75	2	
85	0	
90	0	

ZONALL	.UMEN SU	MMARY
Zone	Lumens	% Fixture
0-30	1209	67.4
0-40	1615	90.1
0-60	1784	99.5
0-90	1793	100
90-180	0	0
0-180	1793	100

Υ	LUMINANO	LUMINANCE		
re	Average Candela	Average 0°		
	Degrees	Luminance		
	45	22576		
	55	4707		
	65	1753		
	75	941		
	85	0		

#### WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (75°	BEAM*)
Test Number	P256018
Housing	HC420D010
Module	HM412835
Reflector	41WDC
Lumens	1889 Lm
Efficacy	94.4 Lm/W
SC	1.24
UGR	15.7



0°/		D L	
МН	FC	L	W
5.5'	41.6	6.6	6.6
7'	25.7	8.6	8.6
8'	19.7	9.8	9.8
9'	15.5	11	11
10'	12.6	12.2	12.2
12'	8.7	14.6	14.6

V-----

CANDEL	A LABLE	ZUNALL	.UMEN SU	MMAKY
Degrees Vertical	Candela	Zone	Lumens	% Fixture
0	1257	0-30	1054	55.8
5	1265	0-30	1034	33.0
15	1295	0-40	1571	83.2
25	1247	0.0		00.2
35	841	0-60	1871	99.1
45	312			
55	50	0-90	1889	100
65	13			
75	5	90-180	0	0
85	0			
90	0	0-180	1889	100

4	LUMINANCE				
е	Average Candela	Average 0°			
T	Degrees	Luminance			
	45	43057			
	55	8564			
	65	2906			
	75	1883			
	85	0			

1.01

SC = Spacing Criteria

UGR = Unified Glare Rating

#### Photometric Multipliers (nominal lumen values)

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.53	0.72	1.00	1.38	1.87

Multipliers for relative lumen values with other series models.

#### **Color Finish Multipliers**

Finish code	С	Н	W/WB	ВВ
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.95	0.97	0.82

### CCT Multipliers - 90CRI

CCT Multipliers - 80CRI

0.91

2700K	3000K	3500K	4000K		
0.75	0.82	0.89	0.89		

1.00

Multipliers for relative lumen values with other series color temperatures.

0.94

Multipliers for relative lumen values with other series color temperatures.

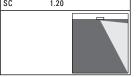
Multipliers for relative lumen values with other color finishes.

<sup>\*</sup>Value are nominal for specular clear reflectors, others may vary.

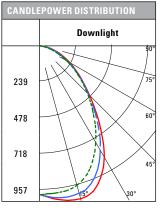
#### **PHOTOMETRY**

#### WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K





SC = Spacing Criteria, nominal for specular clear reflector, others may vary.



CANDELA TABLE			
Degrees Vertical	Candela		
0	901		
5	929		
15	957		
25	871		
35	647		
45	420		
55	267		
65	156		
75	70		
85	8		
90	0		

		SINGL	E UNIT	FOOTC	ANDLE	S	
	•-			<b>from w</b> rom fixture			
1	9.4	6.9	3.2	1.1	0.3	0.1	0
2	12.4	9.5	5.2	2.4	0.9	0.3	0.1
3	13.7	11.1	5.9	2.5	1.1	0.4	0.2
4	10.7	9.4	6.1	3	1.2	0.5	0.2
5	7.7	7	5.4	3.1	1.5	0.6	0.2
6	5.5	5.2	4.3	3	1.6	0.8	0.3
7	4	3.9	3.4	2.6	1.6	0.9	0.4
8	3	2.9	2.6	2.1	1.5	0.9	0.5
9	2.3	2.2	2.1	1.8	1.4	1	0.6
10	1.8	1.8	1.6	1.4	1.2	0.9	0.6

ZONALL	.UMEN SU	MMARY
Zone	Lumens	% Fixture
0-30	700	38.5
0-40	1078	59.3
0-60	1630	89.8
0-90	1816	100
90-180	0	0
0-180	1816	100

LUMINANCE			
Average Candela	Average 0°		
Degrees	Luminance		
45	57956		
55	45350		
65	35998		
75	26547		
85	8498		

MULTIPLE UNIT FOOTCANDLES							
		from w				from with the front fixture a	
1	10.5	9.8	10.5		10.5	9.8	10.5
2	14.8	14.5	14.8		14.8	14.5	14.8
3	16.2	17	16.2		16.2	17	16.2
4	13.7	15.8	13.7		13.7	15.8	13.7
5	10.8	12.6	10.8		10.8	12.6	10.8
6	8.5	9.6	8.5		8.5	9.6	8.5
7	6.6	7.3	6.6		6.6	7.3	6.6
8	5.2	5.6	5.2		5.2	5.6	5.2
9	4.1	4.4	4.1		4.1	4.4	4.1
10	3.2	3.4	3.2		3.2	3.4	3.2

#### Photometric Multipliers (nominal lumen values)

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.53	0.72	1.00	1.38	1.87

Multipliers for relative lumen values with other series models.

#### **Color Finish Multipliers**

Finish code	С	Н	W/WB	ВВ
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.95	0.97	0.82

Multipliers for relative lumen values with other color finishes.

#### CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	
0.91	0.94	1.00	1.01	

Multipliers for relative lumen values with other series color temperatures.

#### CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K
0.75	0.82	0.89	0.89

Multipliers for relative lumen values with other series color temperatures.



#### Excellence in Illumination Engineering Software since 1984



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# Photometric Report (Type C)

Filename: D1 HC410D010-HM412830-41MDH.ies

[TEST] P255881 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (G1-1805-779-8)

[TESTLAB] INNOVATIONS CENTER (G1)

[ISSUEDATE] 7/17/2018

[MANUFAC] COOPER LIGHTING - HALO [LUMCAT] HC410D010-HM412830-41MDH

[LUMINAIRE] HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION

FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM [LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

Maximum Candela = 754.4 at 0 H 0 V

#### Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 85

Indoor Classification: Direct

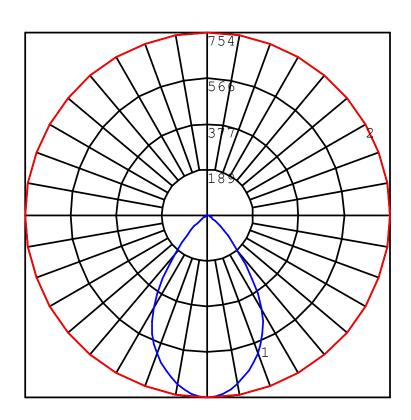
BUG Rating : B1-U0-G0

#### Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0 Vertical









sample banner copyright 2013 Lighting Analysts, Inc.

# Photometric Report (Type C)

Filename: D1 HC410D010-HM412830-41MDH.ies

[TEST] P255881 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (G1-1805-779-8)

[TESTLAB] INNOVATIONS CENTER (G1)

[ISSUEDATE] 7/17/2018

[MANUFAC] COOPER LIGHTING - HALO [LUMCAT] HC410D010-HM412830-41MDH

[LUMINAIRE] HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION

FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM [LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

Maximum Candela = 754.4 at 0 H 0 V

#### Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

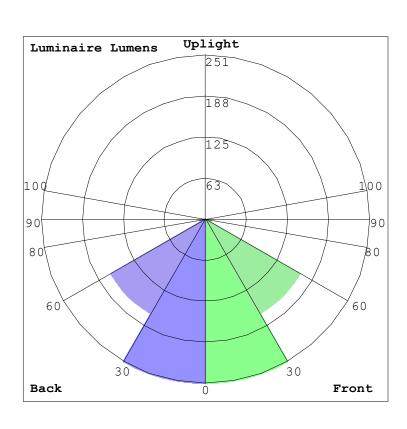
Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 85

Indoor Classification: Direct

BUG Rating : B1-U0-G0

#### LCS Summary:

LCS Zone FL (0-30) FM (30-60) FH (60-80) FVH (80-90) BL (0-30) BM (30-60) BH (60-80) BVH (80-90) UL (90-100)	Lumens 250.7 166.1 8.0 0.3 250.7 166.1 8.0 0.3	%Lamp N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	%Lum 29.5 19.5 0.9 0.0 29.5 19.5 0.9 0.0
,			
UH (100-180)	0.0	N.A.	0.0
Total	850.2	N.A.	100.0
BUG Rating	B1-U0-G0		



# **McGraw-Edison**

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 #	Туре
Project	
Comments	Date
Prepared by	

#### **SPECIFICATION FEATURES**

#### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, diecast 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 and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

#### Optics

Patented, high-efficiency injection-molded AccuLED Optics 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 3000K, 5000K and 6000K 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 Wve systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA. 800mA and 1200mA drive currents (nominal).

#### Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during 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. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

#### 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 housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

#### Warranty

Five-year warranty.



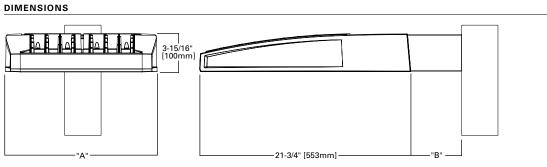
# **GLEON**GALLEON LED

1-10 Light Squares
Solid State LED

**AREA/SITE LUMINAIRE** 



#### WaveLinx



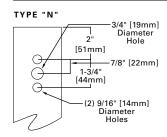
#### DIMENSION DATA

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

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.



#### DRILLING PATTERN







#### **CERTIFICATION DATA**

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

### ENERGY DATA

Electronic LED Driver

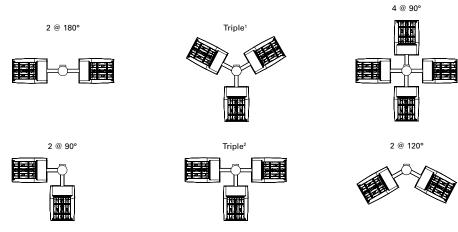
>0.9 Power Factor <20% Total Harmonic Distortion 120V-277V 50/60Hz 347V, 480V 60Hz -40°C Min. Temperature 40°C Max. Temperature (HA Option)



page 2 GLEON GALLEON LED

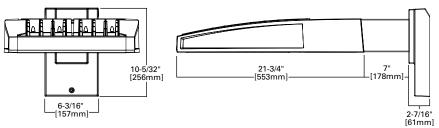
#### ARM MOUNTING REQUIREMENTS

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

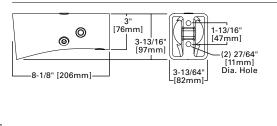


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

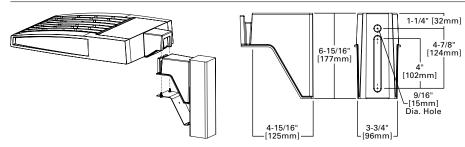
#### STANDARD WALL MOUNT

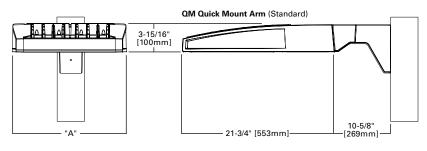


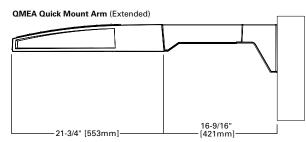




#### QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)







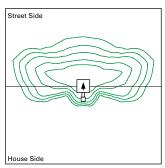
#### QUICK MOUNT ARM DATA

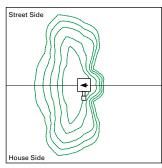
Number of Light Squares 1,2	"A" Width	Weight with QM Arm (lbs.)  Weight with QMEA Arm (lbs.)		<b>EPA</b> (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	1.11
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	

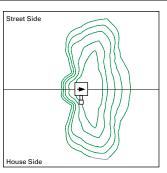
NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

GLEON GALLEON LED page 3

#### **OPTIC ORIENTATION**





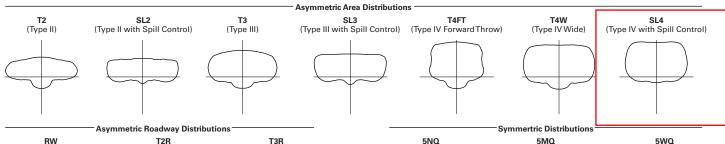


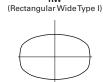
Standard

Optics Rotated Left @ 90° [L90]

Optics Rotated Right @ 90° [R90]

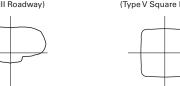
#### **OPTICAL DISTRIBUTIONS**









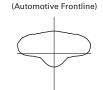




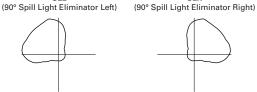




Specialized Distributions AFL

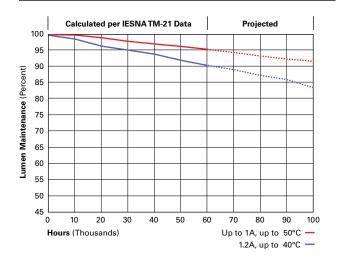






#### **LUMEN MAINTENANCE**

Drive Current	Ambient Temperature	mbient Temperature TM-21 Lumen Maintenance (60,000 Hours)	
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000



#### **LUMEN MULTIPLIER**

Lumen Multiplier
1.02
1.01
1.00
0.99
0.97

#### NOMINAL POWER LUMENS (1A)

NOMINAL	POWER LUMENS (1	(A)	_								
Number o	f Light Squares	1	2	3	4	5	6	7	8	9	10
Nominal F	Power (Watts)	59	113	166	225	279	333	391	445	501	558
Input Curr	rent @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Curr	rent @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Curr	rent @ 240V (A)	0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Curr	rent @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
	rent @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
	rent @ 480V (A)	0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics		<u> </u>		l	l					l	
	4000K/5000K Lumens	6,256	12,225	18,242	24,104	29,865	35,739	42,265	47,888	53,420	59,144
T2	3000K Lumens	5,915	11,559	17,248	22,789	28,236	33,790	39,960	45,277	50,506	55,919
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,642	12,979	19,366	25,589	31,705	37,941	44,870	50,840	56,711	62,789
T2R	3000K Lumens	6,280	12,271	18,311	24,193	29,976	35,872	42,423	48,068	53,619	59,365
1	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
	4000K/5000K Lumens	6,377	12,461	18,593	24,568	30,439	36,426	43,077	48,810	54,447	60,282
Т3	3000K Lumens	6,029	11,781	17,580	23,229	28,781	34,441	40,731	46,150	51,480	56,997
"	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	84-U0-G5	84-U0-G5	B4-U0-G5	84-U0-G5
	4000K/5000K Lumens		12,739	19,006	25,113	31,116			49,895		
Top		6,518	·	· ·			37,235	44,036	•	55,658	61,622
T3R	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,478	56,995
	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	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
T4FT	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
T4W	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
	BUG Rating	B1-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	B4-U0-G5
	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
SL2	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
SL3	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
	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	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
SL4	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
5NQ	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
	BUG Rating	B2-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	B5-U0-G4
	4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
5MQ	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
	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
	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
5WQ	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
SLL/SLR	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,517	12,735	19,002	25,107	31,109	37,227	44,025	49,883	55,644	61,607
RW	3000K Lumens	6,162	12,040	17,965	23,738	29,413	35,197	41,623	47,163	52,609	58,247
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	4000K/5000K Lumens	6,541	12,781	19,072	25,199	31,221	37,362	44,185	50,065	55,846	61,831
AFL	3000K Lumens	6,184	12,084	18,032	23,825	29,519	35,325	41,775	47,334	52,801	58,459
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
* Nominal da	-	1	l	·			ı				

<sup>\*</sup> Nominal data for 70 CRI.



page 8 GLEON GALLEON LED

#### **CONTROL OPTIONS**

#### 0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

#### Photocontrol (P. R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

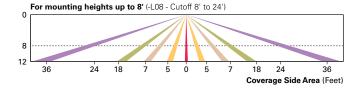
#### After Hours Dim (AHD)

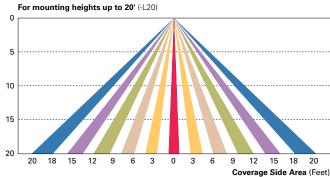
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

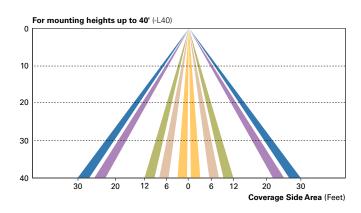
#### Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

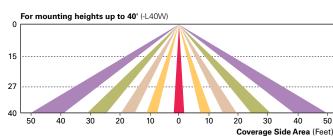
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage. pattern for mounting heights from 8'-40'.



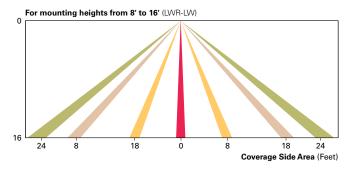


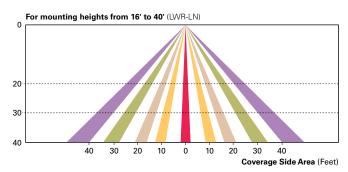




#### $\textbf{LumaWatt Pro Wireless Control and Monitoring System} \ (LWR-LW \ and \ LWR-LN)$

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.





#### WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

#### LumenSafe Integrated Network Security Camera (LD)

Eaton brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform

#### ORDERING INFORMATION

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

Sample Number: GL	EON-AF-04-LED-E	:1-13-GM-QM								
Product Family 1,2	ght Engine	Number of Light Squares <sup>3</sup>	Lamp Type	Voltage	Distribution		Color	Mounting		
GLEON-Galleon AF	1A Drive Current	01 =1 02=2 03=3 04=4 05=5 4 06=6 07=7 * 08=8 * 09=9 * 10=10 *	LED_Solid State Light Emitting Diodes	<b>12</b> 0-277V <b>347</b> =347V <sup>7</sup> <b>480</b> =480V <sup>28</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FI=Type IV Roadway T4FI=Type IV ForwardThrow T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Medium 5WQ=Type IV sypill Control SL2=Type II w/Spill Control SL4=Type IV w/Spill Control SL4=Type IV w/Spill Control SL4=Type IV w/Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular W/deType I AFL=Automotive Frontline		T2R=Type II Roadway T3=Type III Roadway T3F-Type III Roadway T4FT=Type IV ForwardThrow T4W=Type IV ForwardThrow T5W0=Type V Narrow 5M0=Type V Square Medium 5W0=Type V Square Medium 5W0=Type V Square Mide SL2=Type II w/Spill Control SL3=Type II w/Spill Control SL4=Type IV w/Spill Control SL4=Type IV w/Spill Control SL4=Type IV w/Spill Control SL4=Type IV w/Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular W/deType I		AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm <sup>9</sup> MA=Mast Arm Adapter <sup>10</sup> WM=Wall Mount QM=Quick Mount Arm (Standard Length) <sup>11</sup> QMEA=Quick Mount Arm (Extended Length) <sup>12</sup>
Options (Add as Su	uffix)		1	1	-	Accessorie	es (Order Separately)	-		
7027=70 CRI 2700K <sup>13</sup> 7030=70 CRI 3000K <sup>13</sup> 8030=80 CRI 3000K <sup>13</sup> 7050=70 CRI 5000K <sup>13</sup> 7060=70 CRI 6000K <sup>13</sup> 7060=70 CRI 6000K <sup>13</sup> 600=Drive Current Set to 1200=Drive Current Set 1200=Drive Current Set 1200=Drive Current Set 1200=Drive Current Set 1300=Drive Current Set 1300=Drive Set 1300=Dr	o Nominal 800mA <sup>15</sup> to Nominal 1200mA <sup>15</sup> to Nominal 1200mA <sup>15</sup> or 347V. Specify Voltag 40 or 480V. Specify Voltag 10, 5 Hours <sup>22</sup> im, 6 Hours <sup>22</sup> im, 7 Hours <sup>22</sup> im, 8 Hours <sup>22</sup> Left t Right 20 dware 104 21 22 23 24 25 25 26 26 27 28 28 29 29 30 30 30 30 30 30 30 30 30 30 30 30 30	PER7=N R=NEM MS-120 MS-140 MS/DIN MS/DIN MS/DIN MS/DIN MS/DIN MS/VAI MS/ALI MS/	in Type Photocontrol (120, 208 IEMA 7-PIN Photocontrol Rec A Photocontrol Receptacle 21 E-Motion Sensor for ON/OFF- W=Motion Sensor for ON/OFF- W=Motion Sensor for ON/OFF- M-120= Motion Sensor for Din AL40W=Motion Sensor, for Disparation Sensor for Din AL40W=Motion Sensor, for Disparation Sensor, for AL40W=Bi-Level Motion Sensor, for AUW=Bi-Level Motion Sensor, fo	eptacle <sup>21</sup> Operation, 9' - 20' Mo F Operation, 21' - 40' mming Operation, 9' mming Operation, 9' mming Operation, 9' mming Operation, 9' Maximum 8' Mountin 9' - 20' Mounting Heig 7, 21' - 40' Mounting H Operation, Maximum nsor, Wide Lens for 8' sor, Narrow Lens for ock Receptacle <sup>19, 33</sup> Sensor, 7' – 15' Mounti rensor, 7' – 15' Mounti Fensor, 15' – 40' Mounti Fensor, 15' – 40' Mounti Fensor, 15' – 40' Mounti	unting Height <sup>24</sup> Mounting Height <sup>24</sup> Mounting Height <sup>24</sup> ximum 8' Mounting Height <sup>24</sup> 1' - 40' Mounting Height <sup>24</sup> 1' - 40' Mounting Height <sup>24</sup> g Height <sup>24,25</sup> leight <sup>24,25</sup> 8' Mounting Height <sup>24</sup> - 16' Mounting Height <sup>26</sup> 16' - 40' Mounting Height <sup>28</sup> ing Height, White <sup>19,33</sup> ng Height, Bronze <sup>19,33</sup> ng Height, White <sup>19,33</sup> ng Height, White <sup>19,33</sup> ng Height, White <sup>19,33</sup> ng Height, White <sup>19,33</sup>	OA/RA1027- OA/RA1013- OA/RA1013- OA/RA1014- MA1252-10h MA1036-XX- MA1197-XX- MA1197-XX- MA118-XX- MA1199-XX- MA1199-XX- MA1191-XX- MA1191-XX- MA1193-XX- MA1193-XX- MA1193-XX- MA1193-XX- MA1193-XX- GLEON-MT1 GLEON-MT1 GLEON-MT1 GLEON-MT1 GLEON-MT1 GLEON-MT1 GLEON-MT1 SUPDA-WH- SWPD4-WB- SWPD4-WB- SWPD5-WH-	Wavelinx Wireless Sensor, 7' =Wavelinx Wireless Sensor, 1	Int  188" O.D.Tenon  38" O.D.Tenon  1/2" O.D.Tenon  1		

#### NOTES

NOTES:

1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRI. 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with ungrounded with sensor options at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems or corner grounded systems or corner grounded systems or corner grounded systems or corner grounded systems. Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use declicated IES files for 5000K, 3000K, 5000K and 6000K when performing layouts. 14 Reserved 15 1 Amp standard. Use declicated IES files for 5000K, 3000K, 5000K and 6000K when performing layouts. 14 Reserved 15 1 Amp standard. Use declicated IES files for 5000M, 8000m A and 1200mA when performing layouts. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120° Refer to arm mounting requirement table. 18 Not available with LumaWatt Pro wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control l

#### LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul	
L=LumenSafe Technology*  LumenSafe Technology  CUCKHERE	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	<b>W</b> =Wi-Fi Networking w/ Omni-Directional Antenna <b>E</b> =Ethernet Networking

\*Consult LumenSafe system pages for additional details and compatibility.





# FCSL550



Date:	Approved:
Туре:	SL
Fixture:	
Project:	

FCSL550 IP65 rated exterior recessed cut-off 6" tall mini step light for masonry applications. Corrosion resistant, die-cast aluminum construction, this fixture provides illumination for damp, dry or wet areas.

This product has Quick Ship options available. See fclighting.com Quick Ship.



#### **SPECIFICATIONS**

PHYSICAL	
dimensions	fixture: 3.6" W x 5.9" H x 5.5" D
weight	1 lbs
housing	marine grade, corrosion resistant, heavy gauge aluminum faceplate
lens	clear, tempered, glass lens
mounting	concrete pour, masonry applications
ingress protection	IP65 : dry, damp or wet locations with extruded silicone gasket to seal out contaminants
finish	six stage chemical iron phosphate substrate pre-treatment process for a UV stable, super durable standard polyester powder coat

PERFORMANCE								
color temperature	2700K	3000K	3500K	4000K				
lumen output	157 lm							
lifetime	> 70,000 hours / L70 or better							
color consistency	3-Step McAdams Ellipse / standard: CRI ≥ 85   optional: 90CRI							
temperature	operating: -13°F to 104°F (-25°C to 40°C)   start up: -13°F to 104°F (-25°C to 40°C)   storage: -40°F to 176°F (-40°C to 80°C)							
junction temperature	73°C @ T <sup>A</sup> 25°C							
warranty	5 year limited warranty (refer to website for details)							

ELECTRICAL					
input voltage	Universal 120–277V AC				
power supply	integral Class II, electronic high-power factor > 94% @120V				
certifications	ETL / cETL Listed				
standards	UL1598/CSA C22.2 No. 250.0; UL 8750/CSA C22.2 No. 250.13/IES LM-79/LM-80				
power consumption	10W @ 120V - 277V				
dimming interface	optional: 0-10V (integral)				

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions.



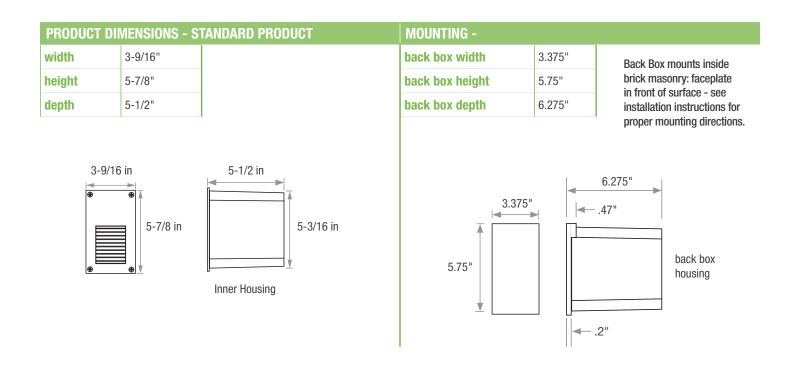


# Ordering Information

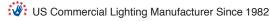
### ORDERING INFORMATION

This product has Quick Ship options available. See fclighting.com Quick Ship.

FCSL550												
SERIES	VOLTAG	GE .	SOUF	RCE/TEM	PERATURE	LED LUMENS	CRI		FINS	Н	ОРТ	IONS & ACCESSORIES
FCSL550	120V	120V	LED	27K	<b>157</b> .u	mens (10W)	CRI85	85 CRI	ВК	Black	LD	Dimming 0-10V
	277V	277V		3K			CRI90	90 CRI	BZ	Bronze		
	UNV	120V-277V		35K					CC	Custom Color		
				4K					SL	Sllver		
									WH	White		



Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions.



120°

110°

100°

90°

80°

70°

60°

500

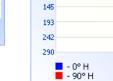


# Photometry

### **OPTICAL DISTRIBUTION**

lumen output	157 Lm @ 4000K
power consumption	10W





290 242 193

145

97

97

CD: 0

Polar Candela Distribution 180° 170° 160° 150°

VA: 0° 10° 20° 30° - 45° H

**itl** illuminations testing labroatory: Report #1023

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions.



#### Excellence in Illumination Engineering Software since 1984



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# Photometric Report (Type C)

Filename: SL\_FCSL-550-120V-4K-160LM.ies

[TEST] TypeC Intensity [TESTLAB] FC/SSL Lab [MANUFAC] FC/SSL Lighting

[LUMINAIRE] Exterior Die-Cast 6†Tall Mini Step Light

with Die-Cast or 316 Stainless Steel Faceplate

[LAMP] LED

Maximum Candela = 282.313494147062 at 0 H 50 V

#### Classification:

Road Classification: Type III, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 16

Indoor Classification: Direct

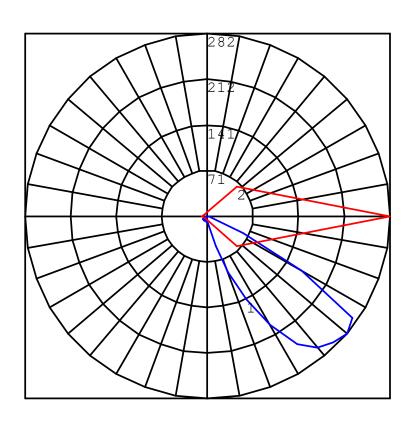
BUG Rating : B0-U1-G0

#### Polar Candela Curves:

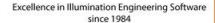
Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 50 Vertical









# Photometric Report (Type C)

Filename: SL FCSL-550-120V-4K-160LM.ies

[TEST] TypeC Intensity [TESTLAB] FC/SSL Lab [MANUFAC] FC/SSL Lighting

[LUMINAIRE] Exterior Die-Cast 6†Tall Mini Step Light

with Die-Cast or 316 Stainless Steel Faceplate

[LAMP] LED

Maximum Candela = 282.313494147062 at 0 H 50 V

#### Classification:

Road Classification: Type III, Very Short, N.A. (deprecated)

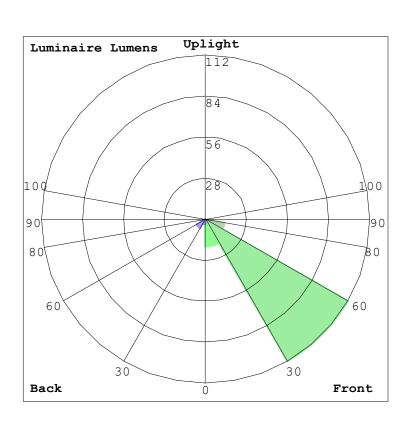
Upward Waste Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 16

Indoor Classification: Direct

BUG Rating : B0-U1-G0

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	18.7	N.A.	11.9
FM (30-60)	112.5	N.A.	71.5
FH (60-80)	13.3	N.A.	8.5
FVH (80-90)	0.2	N.A.	0.1
BL (0-30)	3.4	N.A.	2.1
BM (30-60)	7.1	N.A.	4.5
BH (60-80)	2.1	N.A.	1.3
BVH (80-90)	0.1	N.A.	0.1
UL (90-100)	0.1	N.A.	0.0
UH (100-180)	< 0.05	N.A.	0.0
Total	157.5	N.A.	100.0
BUG Rating	B0-U1-G0		



**LED110P** 



#### 3rd Generation Architectural LED Wallpack

#### DESCRIPTION

TRACE\*LITE's third generation TLED110P series LED wallpack features an updated SSL light engine that provides 0-10V dimming as well as improvements in efficacy, lumen output, and thermal management while still maintaining the consistent look of our proven decorative trapezoid housing. The TLED110P housing is constructed of die-cast aluminum with a UV resistant, thermoset polyester powder coated finish that provides durable protection against environmental conditions, corrosion and the elements. The SSL light engine's LEDs are protected by a high-impact, tempered glass lens.

#### **SPECIFICATIONS**

#### Construction:

The TLED110P series has a precision designed aluminum housing with stainless steel hardware, tempered glass lens, silicone gaskets and a UV resistant, thermoset polyester powder coat finish. The interior wiring space is easily accessible with a side hinged front frame/lens assembly and offers durable performance with clean, architectural aesthetics. The TLED110P is completely sealed with silicone gaskets. There are a total of four (4) ½" threaded hubs, one located on either side, the top and the back of the housing allowing for the installation of switching/control accessories or the capability of wiring the TLED110P with surface mounted conduit.

#### Optics:

Our TLED110P series wallpack delivers exceptional light quality with available correlated color temperatures options of 3000K, 4000K, or 5000K, a CRI of ≥85 and a projected color shift of less than 1%. The TLED110P LED light engine is specifically designed to distribute light forward and to the sides, providing ideal wallpack distribution that maximizes fixture spacing while delivering light where it is needed in the most efficient way possible. Producing up to 3050 delivered lumens, the TLED110P has an L70 of 50,000 hours.

#### Electrical:

The TLED110P includes 0-10V dimming as a standard option with LEDs powered by constant current, high efficiency Class 2 LED driver with active power factor correction (0.90 typical), an IP66 rating, all around protection against over-voltage, over-temperature, short circuit conditions, and lightning. The TLED110P driver has a standard voltage sensing input of 120 ~ 277VAC 50/60Hz, a Class A EMI rating, complies with UL8750 safety regulations and with ANSI/IEEE C62.41 Class A Operation. The TLED110P is suitable for operation in -31°F to 104°F (-35°C to 40°C) ambient conditions.

#### Thermal Management:

Our LED light engine is mounted directly to a dedicated, custom designed LEDLITE*logic* thermal heat sink. The configuration of the heat sink is unique and has been sized to maximize the thermal dissipation of the traditional wallpack housing. This configuration optimizes the heat removal for the LEDs, which in turn, makes possible the high efficacy, lumen output and longevity of the TLED110P.

#### **Environmentally Friendly Design:**

TLED110P luminaires consume very little energy and provide long life in comparison to traditional lamp technologies. The TLED110P-66-VS consumes only 40W, however the light output can be conservatively compared to a 150W HID luminaire of similar design. The TLED110P provides a significant reduction in KW load and carbon emissions.

#### Installation:

The TLED110P series wallpack features a back box design that can be mounted to any vertical surface and is easily wired either to a recessed J-box or by using surface mounted conduit. Optional tamper-resistant hardware, wire guard, and polycarbonate guard are available for applications where there is a high rate of vandalism or theft, or in high traffic, public spaces.

#### Battery Back-Up (Option: BB):

TRACE\*LITE's battery back-up option provides approximately 1400 lumens for 90 minutes in the event of a primary power failure. The battery back-up option includes a battery pack along with a charging/transfer device that keeps the battery pack charged during normal AC operation and transfers battery power to a portion of the LED modules when the device senses that the primary AC power has failed. Suitable for operation in 32°F to 104°F (0°C to 40°C) ambient conditions

#### Transient Protection System (Option: TP):

The LEDLITElogic optional transient protection device is designed to be used in conjunction with our LED drivers. The "-TP" option utilizes a 3-leaded device that protects Line-Ground, Line-Neutral, and Neutral-Ground in accordance with IEEE/ANSI C62.41.2 guidelines. The surge current rating of the "-TP" option is 10,000 amps.







Specs at a Glanc	e*				
# of LEDs	42 LEDs	66 LEDs			
Wattage (w)	27	40			
Lumens (Im)	1,866	3,050			
Efficacy (LPW)	99	76			
Equivalency	70w HID	150w HID			
ССТ	3000K, 4000K, 5000K				
CRI	≥85				
Optics	Type II Very Short				
Input Voltage	120~277 Voltage Sensing				
Warranty	5 Years				
Certifications	ARRA				
Ambient Temp	-35°C to 40°C (-31°F to 104°F)				

\* 5000K CCT tested

#### Photocontrol (Accessory: PC):

Optional field installed photocontrol provides dusk-till-dawn security. Input voltage must be specified to match fixture input voltage.

#### Testing & Compliance:

The reliability and performance of the TLED110P is evaluated in accordance with the parameters outlined and reported by LM-79 and LM-80 documents. Photometric data is tested to IESNA LM-79-08 standard by an independent testing laboratory. Lumen maintenance, or L70, a measure of long term reliability, is determined for the light source, which consists of the LED and PSB sub-assembly as installed in the luminaire, using LM-80 in-situ thermal and reliability data as provided by the LED manufacturer in accordance with DOE/EPA standards.

#### Warranty

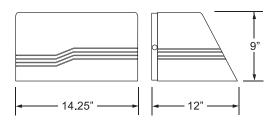
Any component that fails due to manufacturer's defect is guaranteed for 5 years. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

#### **Fixture Performance**

Part Number	Total System	L70 Hours	3000k	СССТ	40001	СССТ	5000F	СССТ
Part Number	Watts	@ 25°C	Lumens (Im)	Efficacy (LPW)	Lumens (Im)	Efficacy (LPW)	Lumens (Im)	Efficacy (LPW)
TLED110P-42-VS	27W	50,000	1833	69	1850	68	1866	70
TLED110P-66-VS	40W	50,000	N/A	N/A	2906	68	3050	76

NOTE: Lumen maintenance and life (part of LM-80 data) are per published information from primary LED suppliers and is based on design operation at their specified thermal management and electrical design parameters.

#### **Dimensions**



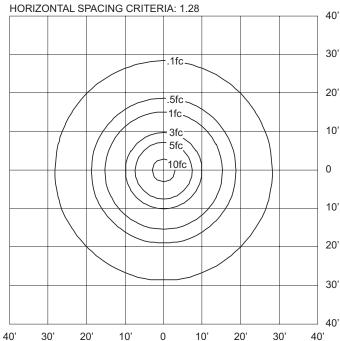
Approximate Weight: 16.5 lbs.

#### **Sample Photometrics**

#### TLED110P-66-VS-4K

IES: TYPE II VERY SHORT MOUNTING HEIGHT: 10 FEET

TILT: ZERO



#### **Ordering Information**

Example: TLED110P-42-VS-5K-TRH

Series	Number of LEDs	Input Voltage	CCT	Options (Factory Installed)
TLED110P	42 = 42 LEDs (27 Watts)	VS = 120~277VAC Voltage Sensing	3K <sup>2</sup> = 3000K	BB = Battery Backup
	661 = 66 LEDs (40 Watts)		4K = 4000K	CC <sup>3</sup> = Custom Color
			5K = 5000K	SZXXX <sup>4</sup> = Single Line Side Fuse (120V or 277V)
Notes				TP = 10KVA Transient/Surge Protection
<sup>1</sup> Only available	e in 4K and 5K			TRH = Tamper Resistant Hardware
<sup>2</sup> Not available	with Battery Backup (BB)			
<sup>3</sup> Consult facto	ry for specific part number and deta	iils		Accessories <sup>5</sup> (Field Installed)
<sup>4</sup> Specify voltage	ge			PCU = 120-277VAC Photocontrol
<sup>5</sup> Order as sep	arate line item			WG110 = Wire Guard







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# Photometric Report (Type C)

Filename: TLED110P-42-VS-5K.IES

[TEST] 33185

[TESTLAB] UNDERWRITERS LABORATORIES INC.

[ISSUEDATE] 7/ 8/2014

[MANUFAC] Barron Lighting Group

[LUMCAT] TLED110P-42-VS-5K

[LUMINAIRE] LED Medium Wallpack, clear glass lens

[LAMP] 42 LEDs. LUMINAIRE OUTPUT: 1866 Lms.

Maximum Candela = 746.1 at 90 H 2.5 V

#### Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 70

Indoor Classification: Direct

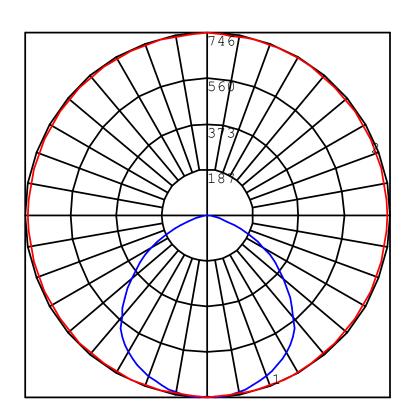
BUG Rating : B1-U0-G0

#### Polar Candela Curves:

Vertical Plane Through:
1) 90 - 270 Horizontal

Horizontal Cone Through:

2) 2.5 Vertical







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# Photometric Report (Type C)

Filename: TLED110P-42-VS-5K.IES

[TEST] 33185

[TESTLAB] UNDERWRITERS LABORATORIES INC.

[ISSUEDATE] 7/ 8/2014

[MANUFAC] Barron Lighting Group

[LUMCAT] TLED110P-42-VS-5K

[LUMINAIRE] LED Medium Wallpack, clear glass lens

[LAMP] 42 LEDs. LUMINAIRE OUTPUT: 1866 Lms.

Maximum Candela = 746.1 at 90 H 2.5 V

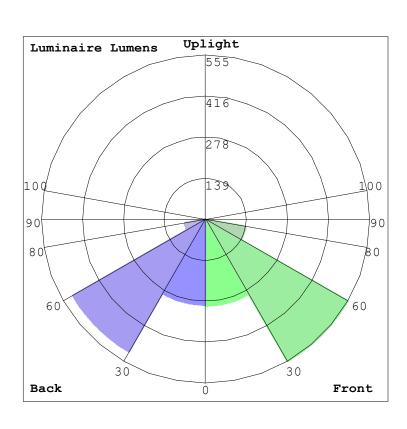
#### Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)

Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 70

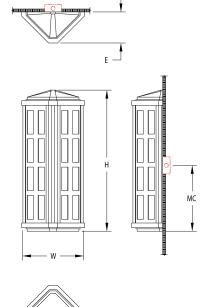
Indoor Classification: Direct
BUG Rating : B1-U0-G0

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	292.6	N.A.	15.7
FM (30-60)	555.0	N.A.	29.8
FH (60-80)	138.3	N.A.	7.4
FVH (80-90)	1.0	N.A.	0.1
BL (0-30)	289.6	N.A.	15.5
BM (30-60)	516.9	N.A.	27.7
BH (60-80)	71.3	N.A.	3.8
BVH (80-90)	0.6	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1865.3	N.A.	100.0
BUG Rating	B1-U0-G0		









#### Notes

- FINISH: Finish is low VOC thermo-cure powdercoat paint. Specify three digit color suffix with "PT" finish options.
- HOUSING: Consists of heavy gauge extruded aluminum corner posts, solid cast aluminum end caps and laser-cut aluminum trim panels.
- MOUNTING: Fixture supplied with gasketed mounting plate, and visible hardware. Fixture requires additional support by wall anchors or studs attached to structural blocking provided by installing electrician. Standard octagonal junction box required.
- UL and C-UL listed for wet locations.
- Fluorescent and metal halide ballasts rated to 22-degree F
- All MH lamp options include integral electronic ballast.

**Fixture Number** 

DE-215 13.25"W x 30"H x 6.5" Ext. DE-216 19.75"W x 45"H x 9.75" Ext.

Finish

Standard Painted Finishes (PT)

**Panels** 

Standard Painted Finishes (PT) Raw Copper (CU)

**Optional Bar Trim on R1 Panel** 

No bar trim on R1 panel (NA)

Brushed Stainless Steel (BS)

Powder coat paint (PP) Polished stainless steel (PS)

Includes integral wet location rated 120-277v 1-100% dimming driver compatible with 0-10v controls. All LEDs are 80+ CRI, 50,000 hr. L70. Wattage listed includes driver

222.0					
	LED Options	Lumens	Wattage		
	E23	1636 (initial)	23		

#### Non-LED Lamps

3N60: (3) 60 watt incandescent 2F40: (2) 40 watt compact fluorescent 1MH70: (1) 70 watt ED-17 metal halide

#### **DE-216**

LED Options	Lumens	Wattage
E34	2452 (initial)	34
E34/1QP75		

#### Non-LED Lamps

4N60: (4) 60 watt incandescent

2F40: (2) 40 watt compact fluorescent

2F40 / 1QP75: (2) 40 watt compact fluorescent & (1) 75 watt PAR30 halogen med. base

**LED Dimming** 

D0: 0-10v

1MH100: (1) 100 watt ED-17 metal halide

**LED Color Temp** 

27: 2700K

30: 3000K

35: 3500K

40: 4000K

**Voltage Options** 

120: 120 volt

277: 277 volt (Not available with incandescent lamp options)

Diffuser Options

WH: Opal White Acrylic

FX: Faux Alabaster Acrylic

**Panel Options** 













R1 **Fixture Options** 

FU: Fusing

PC: Photo Cell

TL: Top Lens



# Photometric Report (Type C)

Filename: W2 DE E22.ies

[TEST] ITL82813

[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.

[MANUFAC] MANNING LIGHTING INC

[LUMCAT] LBI

[LUMINAIRE] FABRICATED WHITE PAINTED METAL WALL MOUNTING PLATE, FORMED WHITE PAINTED METAL CIRCUIT

BOARD MOUNT, 2 WHITE CIRCUIT BOARDS MOUNTED OBLIQUELY ACROSS CIRCUIT BOARD MOUNT EACH WITH 24 LE

[LAMP] FORTY-EIGHT WHITE MULTI-CHIP LIGHT EMITTING

DIODES (LEDS), AIMED AT THE HORIZON.

Maximum Candela = 240.349995017052 at 0 H 92.5 V

#### Classification:

Road Classification: N.A., N.A., N.A. (deprecated)

Upward Wast Light Ratio: 0.50

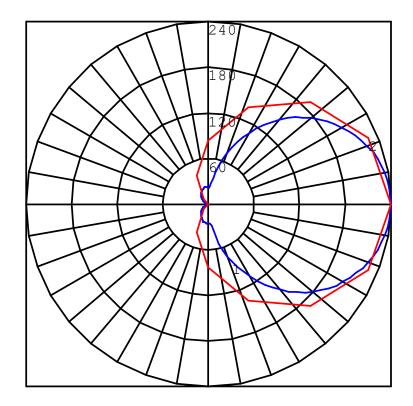
Luminaire Efficacy Rating (LER): 47 Indoor Classification: General Diffuse

BUG Rating : B0-U3-G1

#### Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 92.5 Vertical





# Photometric Report (Type C)

Filename: W2 DE E22.ies

[TEST] ITL82813

[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.

[MANUFAC] MANNING LIGHTING INC

[LUMCAT] LBI

[LUMINAIRE] FABRICATED WHITE PAINTED METAL WALL MOUNTING PLATE, FORMED WHITE PAINTED METAL CIRCUIT

BOARD MOUNT, 2 WHITE CIRCUIT BOARDS MOUNTED OBLIQUELY ACROSS CIRCUIT BOARD MOUNT EACH WITH 24 LE

[LAMP] FORTY-EIGHT WHITE MULTI-CHIP LIGHT EMITTING

DIODES (LEDS), AIMED AT THE HORIZON.

Maximum Candela = 240.349995017052 at 0 H 92.5 V

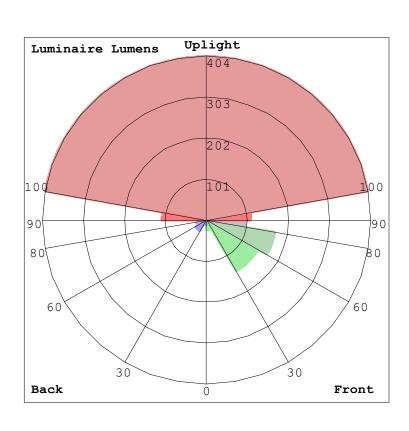
#### Classification:

Road Classification: N.A., N.A., N.A. (deprecated)

Upward Waste Light Ratio: 0.50 Luminaire Efficacy Rating (LER): 47 Indoor Classification: General Diffuse

BUG Rating : B0-U3-G1

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	25.1	N.A.	2.4
FM (30-60)	146.1	N.A.	14.1
FH (60-80)	171.6	N.A.	16.6
FVH (80-90)	97.2	N.A.	9.4
BL (0-30)	11.2	N.A.	1.1
BM (30-60)	30.9	N.A.	3.0
BH (60-80)	24.6	N.A.	2.4
BVH (80-90)	12.2	N.A.	1.2
UL (90-100)	109.9	N.A.	10.6
UH (100-180)	404.1	N.A.	39.1
Total	1032.9	N.A.	100.0
BUG Rating	B0-U3-G1		





# MARCELLA Outdoor Light

part # IOL322BK

#### CANARM LTD.

PO Box 367, 2157 Parkedale Avenue, Brockville, Ontario K6V5V6 Tel: 613-342-5424 | Fax: 1-800-263-4598

> 2555 Rue Bernard Lefebvre, Laval, Quebec H7C 0A5 Tel: 1-450-665-2535 | Fax: 1-450-665-0910

808 Commerce Park Drive, Ogdensburg, New York, USA 13669 Tel: 1-800-267-4427 | Fax: 1-800-263-4598

www.canarm.com

#### **General**

Size of fixture: 9" W x 7 1/4" H x 10" D

Finish: matte black Glass: glass diffuser

Glass size: 8 1/2" diameter Canopy size: 5" diameter

Lamping: 1 x 60W A bulbs (not included)

Mounting: wall mount

#### **Packaging**

Colour box: 11.82" x 10.63" x 9.06" (300 x 270 x 230mm)

Colour box weight: 3.31 lbs

Master box: 22.05" x 12.21" x 18.90" (560 x 310 x 480mm)

Pieces per master: 4

Master box weight: 15.43 lbs



#### **Warranty & Safety Standards**

Warranty - one year

cCSAus

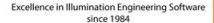
Suitable for wet locations

Prepared for
Contact
D /
Date
Presented by
- · · · · · · · · · · · · · · · · · · ·
Remarks



**WARNING:** The use of this product can expose you to chemicals including Cadmium, which is known to the State of California to cause cancer, and Lead, which is known to the State of California to cause birth defects and/or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.







# Photometric Report (Type C)

Filename: W3 11328494-1260980.ies

[TEST] 1260980

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 6/23/2016 [MANUFAC] Baselite Corp [LUMCAT] W516/ 12W LED/ 5K

[LUMINAIRE] Black aluminum hood, white reflector, and

frosted lens

[LAMP] One (1) white LED

[BALLAST] Inventronics LUC-012S035DSM

Maximum Candela = 381.4 at 0 H .5 V

#### Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 111

Indoor Classification: Direct

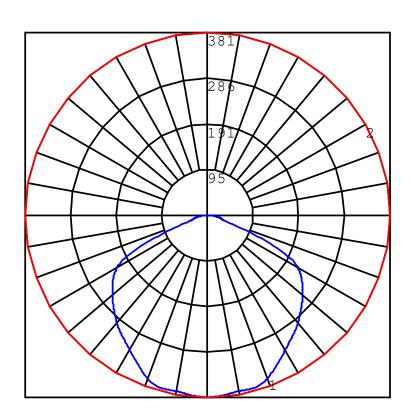
BUG Rating : B1-U0-G0

#### Polar Candela Curves:

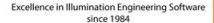
Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0.5 Vertical









# Photometric Report (Type C)

Filename: W3 11328494-1260980.ies

[TEST] 1260980

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 6/23/2016
[MANUFAC] Baselite Corp
[LUMCAT] W516/ 12W LED/ 5K

[LUMINAIRE] Black aluminum hood, white reflector, and

frosted lens

[LAMP] One (1) white LED

[BALLAST] Inventronics LUC-012S035DSM

Maximum Candela = 381.4 at 0 H .5 V

#### Classification:

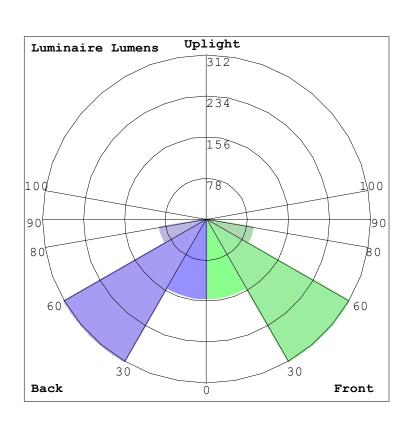
Road Classification: Type V, Very Short, N.A. (deprecated)

Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 111

Indoor Classification: Direct

BUG Rating : B1-U0-G0

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	150.3	N.A.	13.5
FM (30-60)	312.1	N.A.	28.0
FH (60-80)	89.6	N.A.	8.0
FVH (80-90)	5.2	N.A.	0.5
BL (0-30)	150.3	N.A.	13.5
BM (30-60)	312.1	N.A.	28.0
BH (60-80)	89.6	N.A.	8.0
BVH (80-90)	5.2	N.A.	0.5
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1114.4	N.A.	100.0
BUG Rating	B1-U0-G0		



# EW53908

#### SPECIFICATION SHEET

# DATE TYPE

PROJECT

#### Sophisticated LED technology meets modern outdoor wall sconces

- Square down light with stone texture
- Black, grey or espresso metal details
- Dimmable with ELV dimmer (Not included)
- 120V

 Color Temp
 3000K

 CRI (Ra)
 >80

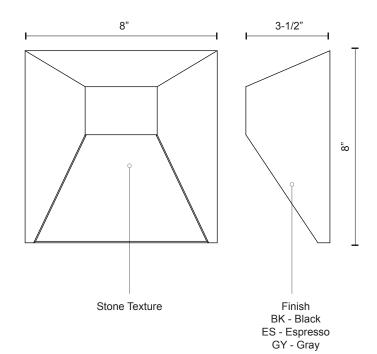
 Dimming
 100% - 10%

 Rated Life
 50,000 hours

Distribution	Voltage	Watt	LED Lumens	Delivered Lumens	Finish(es)
Down	120V	10W	600lm*	169lm*	BK / ES / GY



EW53908-BK



#### \*Subject to testing confirmation





EW53908-BK

EW53908-ES

EW53908-GY



19054 28th Avenue Surrey, BC, Canada V3Z 6M3 T: 604 538 7162 F: 604 538 7196 W: Kuzcolighting.com







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# Photometric Report (Type C)

Filename: W4\_EW53908.IES
[TEST] 260\_16
[TESTLAB] Kuzco Lighting
[ISSUEDATE] 2016-01-28 12:30:48
[MANUFAC] Kuzco Lighting
[LUMCAT] EW53908
[LUMINAIRE] Wall Mounted
[LAMPCAT] DIS 01-600-830-120-S1 (Shielded)
[LAMP] 120V LED

Maximum Candela = 191.16 at 190 H 85 V

#### Classification:

Road Classification: N.A., N.A., Non-Cutoff (deprecated)

Upward Wast Light Ratio: 0.18

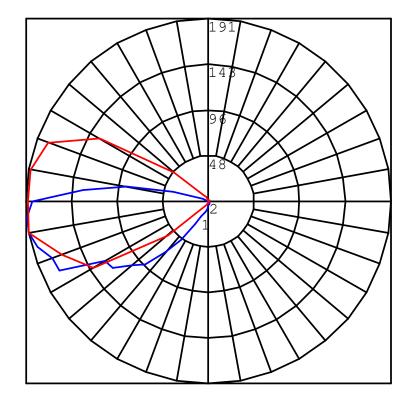
Luminaire Efficacy Rating (LER): 27 Indoor Classification: Semi-Direct

BUG Rating : B0-U2-G1

#### Polar Candela Curves:

Vertical Plane Through:
1) 190 - 10 Horizontal

Horizontal Cone Through:
2) 85 Vertical







sample banner copyright 2013 Lighting Analysts, Inc.

# Photometric Report (Type C)

Filename: W4 EW53908.IES

[TEST] 260 16

[TESTLAB] Kuzco Lighting

[ISSUEDATE] 2016-01-28 12:30:48

[MANUFAC] Kuzco Lighting

[LUMCAT] EW53908

[LUMINAIRE] Wall Mounted

[LAMPCAT] DIS 01-600-830-120-S1 (Shielded)

[LAMP] 120V LED

Maximum Candela = 191.16 at 190 H 85 V

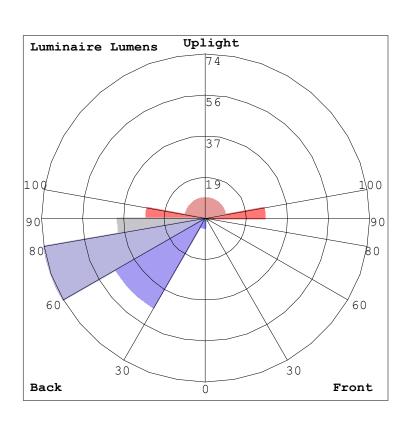
#### Classification:

Road Classification: N.A., N.A., Non-Cutoff (deprecated)

Upward Waste Light Ratio: 0.18 Luminaire Efficacy Rating (LER): 27 Indoor Classification: Semi-Direct

BUG Rating : B0-U2-G1

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1.1	0.5	0.5
FM (30-60)	1.4	0.7	0.7
FH (60-80)	0.7	0.3	0.3
FVH (80-90)	0.3	0.1	0.1
BL (0-30)	4.3	2.1	2.1
BM (30-60)	46.7	22.8	22.9
BH (60-80)	74.3	36.2	36.4
BVH (80-90)	39.7	19.4	19.4
UL (90-100)	26.7	13.0	13.1
UH (100-180)	9.0	4.4	4.4
Total	204.2	99.5	100.0
BUG Rating	B0-U2-G1		





# Exterior LED Cylinder Lighting To The Next Level

Design & Construction: FC Lighting has developed the latest durable, high ouptut exterior cylinder line on the market. Engineered with a revolutionary heat dissipation component, these fixtures come available with style, optics choices, mounting options and accessories that create limitless possibilities for any lighting specifiers dream application. These Cylinders provide an unmatched flexibility for specifying powerful lighting with an equally sophisticated style.

Style & Accessories: Add to your dream specification with an Angle Cut Visor or Up / Down Lighting solution. With design flexibility only limited by the imagination, specifiers can create an environment with contemporary style and mood enhancing control features that complement any application. FCC Series Cylinders come in 4", 6", 8" and 10" diameters that are available from 10" up to 20" long.

#### Output and Optics Flexibility:

American engineered performance features create high lumen output with a high efficacy. The engineers at FC Lighting have designed optics options that hand over control of beam and field angle effects. *FCC Series Cylinders* are the ultimate solution that allow designers the ability to customize lighting for their clients specific needs.

#### **Power Dimming & EMR Flexibility:**

The latest development in the *FCC Series Cylinder* line created the widest variety of integral power, dimming and control solutions possible. EMR and wireless controls all compatible with Dali, DMX, ELV and 0-10% dimming protocols. Lutron Ecosystem® compatibility and eldoLED drivers are also available. *FCC Series Cylinders* are the most comprehensive cylinder lighting solutions available on the market today!



**Specification Sheet** 



Date:	Approved:
Туре:	
Fixture:	
Project:	

**FCC400 Series Cylinders** are the most versatile high output exterior cylinders in the market. These Cylinders are designed with outdoor applications in mind. Dry, damp or wet conditions and developed with the highest variety of mounting capabilities, power and output levels, optical distributions, and many featured options.

### **SPECIFICATIONS**

PHYSICAL		
beam spread	10°   15°   25°   35°   40°   60°   72°   90°	
diameter/height	diameter: 4.5" height: 9.92"   13.92"   21.86"	
weight	8 lb	
housing	heavy-walled, extruded aluminum housing with die-cast lens ring and cap with stainless steel hardware	
lens	IK05 impact compliant, clear anti-glare tempered glass	
mounting	mounts directly to standard recessed junction box   additional holes allow unit to be attached directly to mounting surface	
ingress protection	continuous silicone gasket to seal out contaminants, IP65 rated for dry, damp or wet locations	
vibration resistance	compliant with 1G ANSI C136.31, Seismic rated AC-156	
finish	7-stage chemical stage pre-treatment process that includes iron phosphate, to prepare the substrate for a UV stable, super durable standard polyester powder coat	

PERFORMANCE		
color temperature	lor temperature 2700K   3000K   3500K   4000K   5700K	
delivered lumens	3000 Lm max - Selectable in 500 Lm increments	
lifetime	> 70,000 hours / L70 or better	
color consistency	2-step MacAdam Ellipse   83 CRI standard   optional 93 and 97 CRI	
temperature	operating: -4°F to 104°F (-20°C to 40°C)   start up: -4°F to 104°F (-20°C to 40°C)   storage: -40°F to 176°F (-40°C to 80°C)	
warranty	rranty 5 year limited warranty (refer to website for details)	

NON-LED			
CFL	13Q, 18T, 26T socket: PL: four pin plug-in type compact fluorescent lamp holder (lamp by others)		
ballast	fluorescent electronic, UL listed ballast standard		
HID	20W MH G12, 30W MH G12 socket: G12 base porcelain socket (lamp by others)		
ballast	electronic ballast standard: ballast has a manufacturer issued 5 year warranty		

ELECTRICAL			
input voltage	Universal 120–277V AC standard 347V optional		
power supply	integral Class II, electronic high-power factor > 94%   EldoLED & Lutron optional		
certification	CEC Title 24 - JA8 Compliant		
standards	ETL / cETL or CE, tested to UL 1598 and UL 8750 standards / UL-Class I / IES LM-79 / LM-80 / FCC Part 15		
power consumption	up to 35W max @ 120V		
discouries or independence	standard: LED dimming: 0-10V, 1%		
dimming interface	optional: ELV   TRIAC   dim to off   DMX   DALI		

**Expanded Disclaimer:** Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions. FCC Series Cylinder Lights are engineered and produced in our Illinois manufacturing facility.



**Specification Sheet** 

# FCC400 Series

#### **ORDERING INFORMATION** FCC400 model height mounting voltage source | CCT CRI lumen output finish optics UNV 120V-277V LED 27K 2700K CR83 83 CRI FCC400 Ø4.25" 10 SF BK black Up Surface Down Down 12 WM Wall 3K 3000K CR93 Standard 500 Lm (5W) 5L BZ bronze D 10 10° Narrow Spot U 10 5L 14 PD Pendant 35K 3500K CR93 93 CRI **10L** 1000 Lm (10W) 10L WH white D 10° - 1500 Lm max - U 10° 16 CM Cord No 97 CRI on 35K CR97 15L 1500 Lm (15W) 15L SL silver D 15 15° Spot U 15 D 15° - 2500 Lm max - U 15° CC custom color 18 SM Slope 4K 4000K **20L** 2000 Lm (21W) 20L 20 57K 5700K **25L** 2500 Lm (27W) 25L D 25 25° Mid-Spot U 25 No 97 CRI on 57K D 30 30° Narrow Flood U 30 Total fixture lumens cannot excede 3000 Lm - additional R Red D 50 50° Flood U 50 driver required for unequal G Green D 90 90° Flat U 90 output selections. 3000 Lm В only available in one direction. Blue **30L** 3000 Lm (34W) Contact the Factory for Non-LED source options 83 CRI only on 30L

Standard Driver Included: LED dimming: 0-10V, 1%

**Driver Options** (all drivers are 120V-277V unless otherwise specified)

MATCH SELECTION FROM CCT COLUMN ABOVE TO ONE CHOICE OF DRIVER FROM TABLE BELOW - review Driver Table on Pg 10 for driver specifications

STANDARD CCT (UNV) DRIVER OPTIONS	LUTRON DRIVER OPTIONS	eldoLED DRIVER OPTIONS	STANDARD CCT (347V) DRIVER OPTIONS
ET ELV or TRIAC	L2 Lutron 1%, 2-Wire, Forward Phase	E1 eldoLED 0-10V, Dim-to-Off	<b>A3</b> 347V 0-10V, Dim to 10%
<b>LD</b> 0-10V Dimming (1%)	L5 Lutron Ecosystem, 0.1%, Soft-on, Dim-to-Off	E2 eldoLED DALI, Dim-to-Off	
DMX DMX Dim to 0.1%,		<b>E5</b> <i>eldoLED</i> 0-10, Dim to 1%	
<b>DL</b> DALI Dim to 0.1%,		E6 eldoLED DALI, Dim to 1%	
		E7 eldoLED DMX, Dim-to-Off	

#### Options (choose one per fixture)

SF	Soft Field (solite)	BBU	Battery Backup (Remote)
CPLX	Custom Length Pendant (X=inches)		
CBLX	Custom Length Cable (X=inches)		
OPC	Opal Polycarbonate Lens		
CV	Cut-Off Visor		





# PHYSICAL

DIMENSIONS	
diameter/height	diameter: 6.3" height: 6"   8"   10"   12"   14"   16"   18"   20"
weight	5-10 lb (length dependent)

mounting	twist-lock surface mount   twis	t_lack nandant   wall maunt	I slope mount I twis	ist-lock cord L surface m	ount conduit adapter   voke
IIIUUIIIU	LWIST-IOCK SUITACE HIDUHL I LWIS	t-lock bendant   wall mount	I Slope mount I twis	ist-iock cord i surrace iii	Duffi Cuffuult auablef i vuke

# **PRODUCT DIMENSIONS CUT OFF VISOR** diameter Ø 4.5" CV - cut-off visor 3.75" D height 9.92" | 13.92" | 21.86" total fixture height H + 3.75" D Ø 4.5 in Ø 4.5 in 3.75 in H in Ø 4.5 in Ø 4.5 in H in 3.75 in

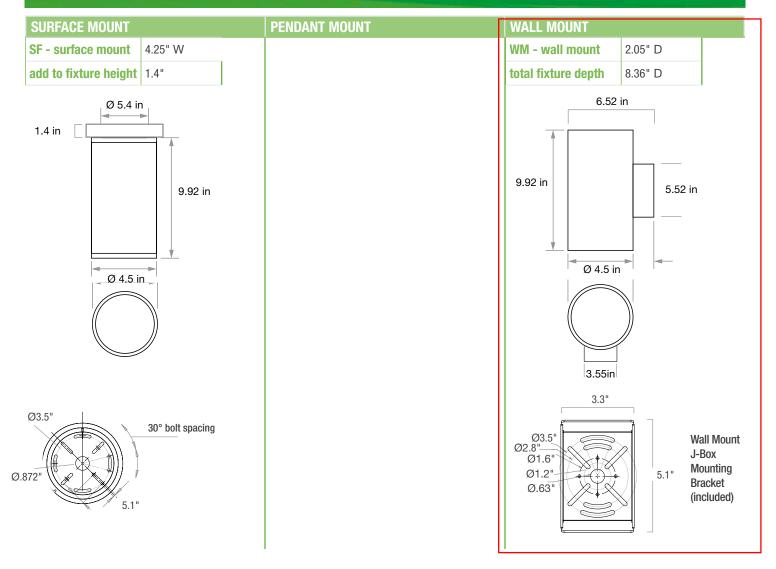
CONSTRUCTION & FINISH		
housing	no visible seams or fasteners, marine grade, corrosion resistant, solid aluminum extrusion, die-cast aluminum components	
lens	IK05 impact compliant, clear anti-glare tempered glass	
finish	7-stage UV stable polyester powder coat	







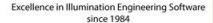
### **MOUNTING OPTIONS**













# Photometric Report (Type C)

Filename: W5\_FCC410W-D-18.IES

[TEST] TypeC Intensity
[TESTLAB] FC/SSL Lab
[MANUFAC] FC/SSL Lighting

[LUMINAIRE] 4†Round Wall, Pendant or Surface Mounted

Die-Cast Aluminum Cylinder.

[LAMP] LED

Maximum Candela = 4929.4 at 0 H 0 V

#### Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Luminaire Efficacy Rating (LER): 183

Indoor Classification: Direct

BUG Rating : B0-U2-G1

#### Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 0 Vertical

