

To:	Janine Glaeser
From:	Brian Munson
CC:	Matt Gilhooly
Date:	Tuesday, June 18, 2019
Re:	KCG Meadowlands Multi-Family

Attached please find additional drawings for the 6810 Milwaukee Street PUD submittal, per your request, including the following:

- Black & white elevations
- Lighting cut sheets

Please let me know if you need any additional information.



TYPE _ JOB NOTES APPROVALS FEATURES Certifications Full Cutoff PicoPrism technology Type 1, 2, 3, 4, 5, R, L distributions (NF Patented low profile luminaire¹ 0-10V dimming drivers standard 115 Available in 580nm, 3000K, 4000K and 5000K IISTED Sealed optical chamber, IP66 certified standard CCT 3000K and warmer CCTs only **SPECIFICATIONS** - 23" тор _____8" 23' 16" (406 mm) 8 (203 mm) SIDE FRONT TOP воттом Max. Weight = 45 lbs. EPA 1.8 for 1A. See Configuration for Additional EPAs **ORDERING CODE Photocell Options** Configuration **Electrical Module Fixture Finish** EPA Fixture 1 Arm Side Mt. 1.8 Housing **Distribution** Drive Current Source Color Temperature² BL Black 7-pin Photocell **1**A Voltages A25-7 DB Dark Bronze 80L 80 LEDs 2K 580nm³ Receptacle 2B 2 Arm Side Mt. 3.6 ET Large, 80 LEDs 1 Type I P35 350mA 120 120V 94W (350mA) **PicoPrism 3K** 3000K GT Graphite A30 120V Button Photocell 2 Arm Side Mt. 2 Type II 1 21 2.6 208 208V 188W(700mA) LG Light Gray P70 700mA 4K 4000K A31 208V Button Photocell 3 Type III 3T 3 Arm Side Mt. 4.1 т 240 240V PS Platinum Silver PicoPrism 5K 5000K A32 240V Button Photocell 4 Type IV 3Y* 3 Arm Side Mt. 4.1 277 277V TT Titanium 5 Type V ÷ 4C 4 Arm Side Mt. 4.7 A33 277V Button Photocell 347 347V WH White R Type R, Right -1 1W Single Wall Mt. n/a CC Custom Color* A34 480V Button Photocell 480 480V4 ¹120V through 277V is a variable driver. L Type L, Left HSF Horizontal Slipn/a * Consult Representative A35 347V Button Photocell fitter Mount *Available round poles only. EPA is for Fixture only **Optional Entablatures** Controls **Mounting Options** Fusing Lens Options NFO Option NFO Neighbor Friendly Optic SF 120, 277, Vertical Slipfitter Mount for Side Arm Mount LS Polycarbonate A1 Arch Wireless VSF Photometry available 347 Line Volts Lens⁵ WIR-RMI-IO 120-480V, 1000' range, 2" pipe tenon, (2-3/8" O.D.) 3 3" O.D. Pole A2 Broken Arch for Type III/IV. All wiSCAPE RF control system Vertical Slipfitter Mount square DF 208, 240, SVSF 3.5 3.5" O.D. Pole others, consult factory. A3 Stepped Arch with on/off/dim, alerts, for 2" pipe tenon, (2-3/8["] O.D.) 480 Line Volts 4 4" O.D. Pole A4 Stepped Brock Arch monitoring and metering 5 5" O.D. Pole capabilities A5 Standard Entablature 6 6" 0 D Pole P6 Peak Microsoft, Encarta, MSN, and Windows are either registered trademarks or Motion SQ Square Pole trademarks of Microsoft Corporation in the United States and/or other countries. P7 Broken Peak SCL-R Round Pole Mounted P8 Stepped Peak Occupancy Sensor up to 16' For Pole Spec Select: http://www.kimlighting.com/products/arms_and_poles/ SCL-S Square Pole Mounted For Control Spec Select: http://trpssl.com/index.html P9 Stepped Brocken Peak **Control Accessories** Occupancy Sensor up to 16' P10 Stepped SW7PR^{6,7} Site Sync with 7 pin PCR SCH-R Round Pole Mounted ¹ US Patent No. D568,521 S. Other patents pending. Occupancy Sensor 16' to 30' SWUSB[†] SiteSync Software on USB ² For custom optics and color temperature configurations, contact factory. SCH-S Square Pole Mounted Turtle friendly. Maximum 500mA drive current for 2K amber option. SWTAB[†] SiteSync Windows[®] Tablet Occupancy Sensor 16' to 30 4 347V & 480V currents may be supplied with step-down transformer. SWBRG[†] SiteSync Wireless Bridge Node ⁵ Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons. WIR-RME-L wiSCAPE 7-pin Module Not available with other sensor or wireless control options NXOFM-1R1D-UNV NX 7-pin Module Specify group and zone at time of order. See www.hubbelllighting.com/sitesync SiteSync Lighting Control is available from [†] When ordering with SiteSync, one of the for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node. SiteSync following interface options must be chosen our most popular brands in a broad range and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

Kim Lighting reserves the right to change specifications without notice.

© 2016 KIM LIGHTING | 16555 East Gale Ave. | City of Industry | CA 91745 P 626.968.5666 | F 626.369.2695 | www.kimlighting.com | Rev. Apr. 23, 2019



of award-winning product families.

| 1 |



Spectroradiometric										
	3000K Average	4000K Average	5000K Average							
Color Rendering Index (CRI)	≥75	≥70	≥65							
Power Factor	>.90	>.90	>.90							

Projected Lumen Maintenance							
mA	50,000 hrs	100,000 hrs					
350 mA	96.58%	94.30%					
700 mA	91.99%	86.88%					

ectrical Drive Current										
	350mA			700mA						
Volts - AC	Amps - AC	System Watts	Volts - AC	Amps - AC	System Watts					
120	0.78	94	120	1.57	188					
208	0.45	94	208	0.90	188					
240	0.39	94	240	0.78	188					
277	0.34	94	277	0.68	188					
347	0.27	94	347	0.54	188					
480	0.20	94	480	0.39	188					

B.U.G. Rating fo	B.U.G. Rating for 350mA (TM15) in Lumens where $B = Backlight$, $U = Uplight$, $G = Glare$									
Temperature	Type I	Type II	Type III	Type III NFO	Type IV	Type IV NFO	Type V	Type L/R		
3000K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G2	B1 U0 G3	B0 U0 G3	B4 U0 G3	B3 U0 G3		
4000K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G2	B1 U0 G3	B0 U0 G3	B4 U0 G3	B3 U0 G3		
5000K	B4 U0 G4	B3 U0 G3	B3 U0 G3	B2 U0 G2	B1 U0 G3	B0 U0 G3	B4 U0 G3	B3 U0 G3		

Absolute Lumens for 350mA										
Temperature	Type I	Type II	Type III	Type III NFO	Type IV	Type IV NFO	Type V	Type L/R		
3000K	10223	10144	10048	8772	10013	9045	10285	10024		
4000K	10485	10404	<mark>10306</mark>	8996	10270	9277	10548	10281		
5000K	10605	10523	10424	9099	10387	9383	10669	10398		

B.U.G. Rating for 700mA (TM15) in Lumens where $B = Backlight$, $U = Uplight$, $G = Glare$									
Temperature	Type I	Type II	Type III	Type III NFO	Type IV	Type IV NFO	Type V	Type L/R	
3000K	B5 U0 G5	B4 U0 G4	B3 U0 G4	B3 U0 G4	B1 U0 G4	B0 U0 G4	B4 U0 G3	B4 U0 G4	
4000K	B5 U0 G5	B4 U0 G4	B3 U0 G4	B3 U0 G4	B1 U0 G4	B0 U0 G4	B4 U0 G3	B4 U0 G4	
5000K	B5 U0 G5	B4 U0 G4	B3 U0 G4	B3 U0 G4	B1 U0 G4	B0 U0 G4	B5 U0 G3	B4 U0 G4	

Absolute Lumens for 700mA

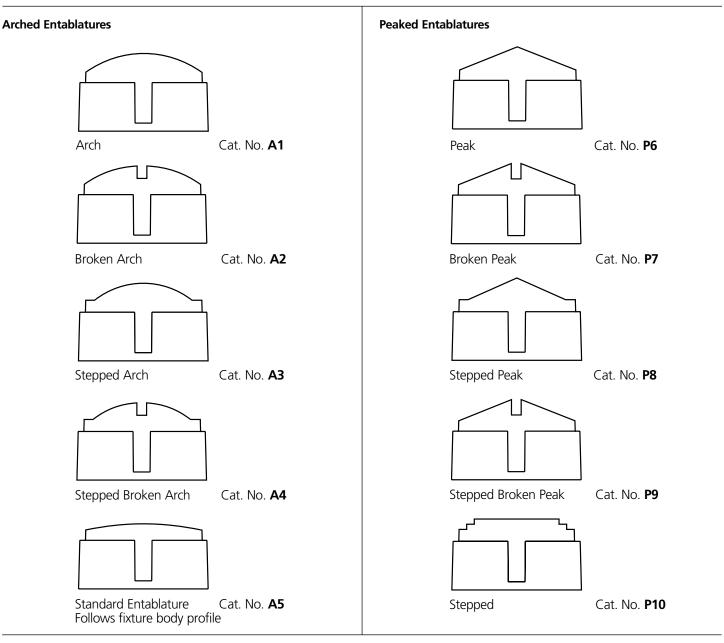
	-							
Temperature	Type I	Type II	Type III	Type III NFO	Type IV	Type IV NFO	Type V	Type L/R
3000K	18085	17946	18764	16687	17731	16060	18972	17539
4000K	18549	18405	19245	17114	18185	16472	19458	17988
5000K	18761	18616	19465	17310	18393	16660	19680	18194

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.





Optional Entablatures (Entabs)



Specify Entablature and color. Example: [A2/LG] **Entablature Specifications:** Stamped from .090 aluminum sheet, mechanically attached to front and back of housing with no visible fasteners. For custom colors and/or custom Entablatures, consult your Kim representative. See page 1 for dimensions.





SPECIFICATIONS

Housing:

- Extruded low copper aluminum main body.
- Die-cast low copper aluminum electrical gear compartment.
- Stainless steel hardware.
- Die cast wall separates the optical and electrical compartment acting as thermal barrier.
- Electrical gear compartment doors are fastened with two hinges and a latch made of stainless steel.
- Silicone gaskets seal the compartments at the barrier surface.

Optical Module:

- PicoPrism[®] refractors (enclosed LED PCBs for IP66 rating) aimed toward the task and spreads horizontally to produce great uniformity.
- Type I, II, III, IV, V, L (left), and R (right) standard distributions. Custom available.
- 3000K, 4000K, 5000K standard CCT. Amber and custom available.
- IP66 certified.
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level.
- Anodized aluminum carrier plate and heat sink modules.

Lens Frame:

 One-piece low copper aluminum alloy die-cast is secured to housing with two toolless latches.

Neighbor Friendly Optic

 Optional integrated Neighbor Friendly Optic on each LED module to completely control unwanted backlight. Most effective with Type III and IV distibutions.

Electrical Characteristics:

- Pre-assembled, aluminum gear tray.
- 120V through 480V @ 50/60Hz.
- Class 2, 350mA or 700mA
- Power Factor = >.90
- National Electrical Code, ANSI/NFPA 70.
- 10kV surge suppression.
- Thermal shield thermal control.
- -30c starting driver.

- 0-10V dimming interface.
- All electronic components are IP66 rated.
- Electronic components are UL and/or CSA recognized.
- Standard programmable driver for variable drive current settings from 350mA to 700mA.

Dimming:

- 10% to 100% dimming using standard 0-10V interface driver.
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0-10V Interface to bypass the thermal shield and control the driver.
- The thermal shield works in conjunction with the control system to assure that overheating will not harm the LEDs.
- The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others).



Support Arm:

- Speed Mount and a reinforcing plate are provided with wire strain relief.
- Speed Mount is square or circular cut for specified pole size and shape.
- Die-cast, low copper aluminum support arm for direct pole mount.
- Die-cast aluminum tool-less entry splice access cover.
- Terminal block is mounted in the arm cavity and accepts #14 to #8 wire sizes.
- Prewired to electrical module with quick-disconnect plugs located inside the electrical compartment.
- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 1-1/4" to 2" IPS pipe size arms.
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate with a square cut Speed Mount.

Finish:

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (WH) White, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, and (CC) Custom Color (Include RAL#).

Fusing:

SF for 120, 277 and 347 Line Volts **DF** for 208, 240 and 480 Line Volts.

• High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Certifications and Listings:

- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- IP66 certified.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- RoHS compliant.
- IDA approved, 3000K and warmer CCTs only.

CAUTION:

 Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

WARRANTY:

 For full warranty see http://www. hubbelllighting.com/resources/warranty







CONTROLS

Photocell Receptacle

A25-7

Fully gasketed and wired 7-pin receptacle option. Easy access location above the electrical compartment. 7-pin construction allows for a user-defined interface and provides a controlled definition of operational performance. ANSI twist-lock control module by-others.

Standard customer operation modes:

- 1. Traditional on/off photoelectric control.
- **2.** 5-pin wireless photoelectric control for added dimming feature.
- **3.** 7-pin wireless photoelectric control for dimming and additional I/O connections for customer use

Gray Wire-Black Wire 0-10V Dimming Line Voltage White Wire Purple Wire 0-10V Dimming Neutral Brown Wire Orange Wire 10V Custome 10V Čustomer Defined Defined Red Wire Line Voltage

Button Photocell

A30 for 120V, **A31** for 208V, **A32** for 240V, **A33** for 277V, **A35** for 347V, **A34** for 480V,

Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others.

Wireless Controls wiSCAPE™

Hubbell Control Solution's wiSCAPE™ wireless control modules allow an individual fixture to managed, monitored and measured. The modules communicate securely over a robust certified meshed radio signal. The wiSCAPE modules provide on/off/dim control, external device input, alerts and metering.

WIR-RMI-IO

wiSCAPE Internal Module, 120-480V, 1000ft range (LOS), 3 Digital Inputs/1 Analog Input, 2 Outputs.

WIR-RME-L

wiSCAPE External Module,120-480V, 1000ft range (LOS), Internal Photocell, 1 Digital Input, Compatible with the A-25-7H option

SiteSync™¹

SiteSync[™] wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit www.hubbelllighting.com/products/sitesync for more details.

Pole Mounted

Round Pole-Mounted Occupancy Sensor up to 16' SCL-R

Round Pole-Mounted Occupancy Sensor up to 16' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-R4⁴/277²/BL³

Square Pole-Mounted Occupancy Sensor up to 16' SCL-S

Square Pole-Mounted Occupancy Sensor up to 16' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for square pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCL-L/277²/BL³

Round Pole-Mounted Occupancy Sensor 16' to 30'

SCH-R

Round Pole-Mounted Occupancy Sensor: 16' to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions. Ordering Example: SCH-R4⁴/277²/BL³

Square Pole-Mounted Occupancy Sensor 16' to 30' SCH-S

Square Pole-Mounted Occupancy Sensor: 16 to 30' - an outdoor occupancy sensor with 0-10V interface dimming control that mounts directly to the pole. Wide 360° pattern. Module colors are available in Black, Gray, and White. Module is cut for round pole mounting. Pole diameter is needed upon order. Poles to be drilled in the field will be provided with installation instructions.

Ordering Example: SCH-S/277²/BL³

SCP

The SCP is a photo-control with motion sensing accessory thats mounts to the side of any new or existing 3"-5" round or square straight pole. The SCP enables any pole mounted luminaire in excess of 75 watts, to meet California Title 24 requirements with integral 20KV/10KA surge protection for added reliability and serviceability.

For more detail:

http://www.aal.net/products/sensor_control_ programmable

PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/ sitesync or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples:

SiteSync only : ALT3/P70/60L/3KUV/PS/US/SWP

SiteSync with Motion Control: ALT3/P70/60L/3KUV/PS/US/SWPM-20F MOB ORDERING INFORMATION: When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

ALT3/P70/60L/3KUV/PS/US/MOB - 1 to 30 min - 33%or 50% - ?? / DBT

High to Dim Delay Low Level Mounting Height (ft.)

²Voltage, ³Color, ⁴Pole Diameter



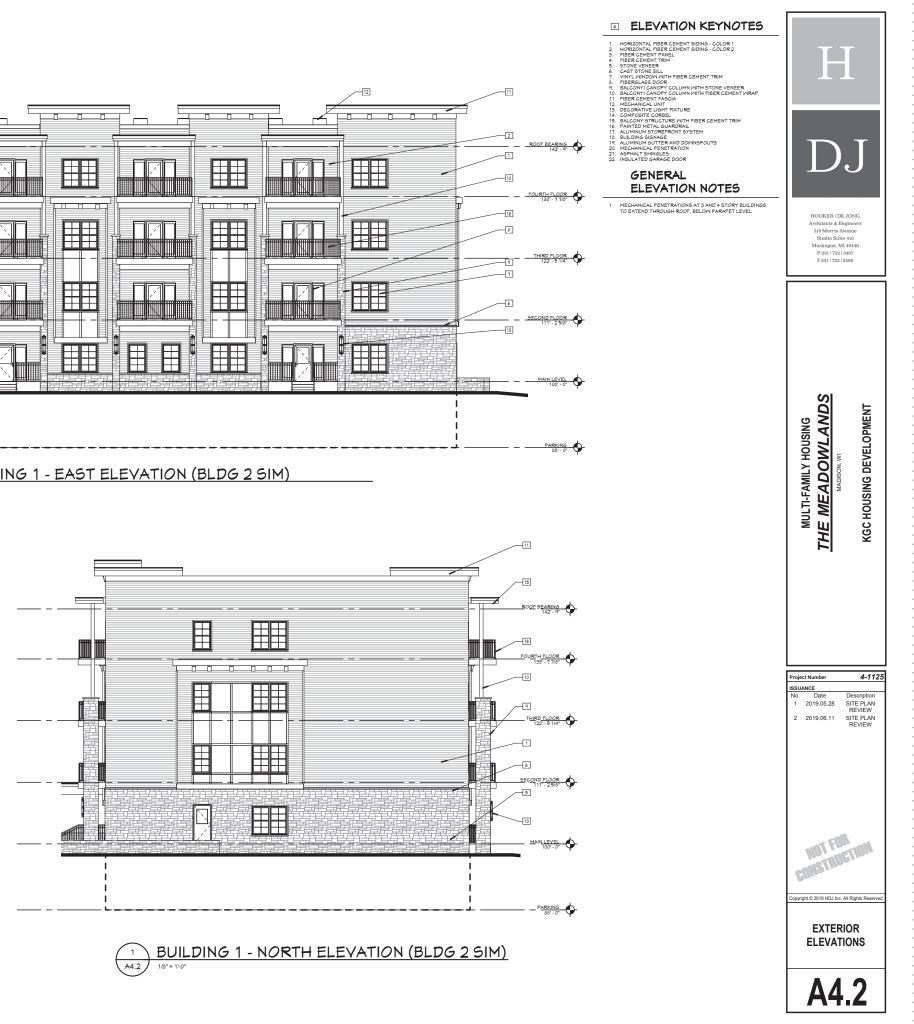


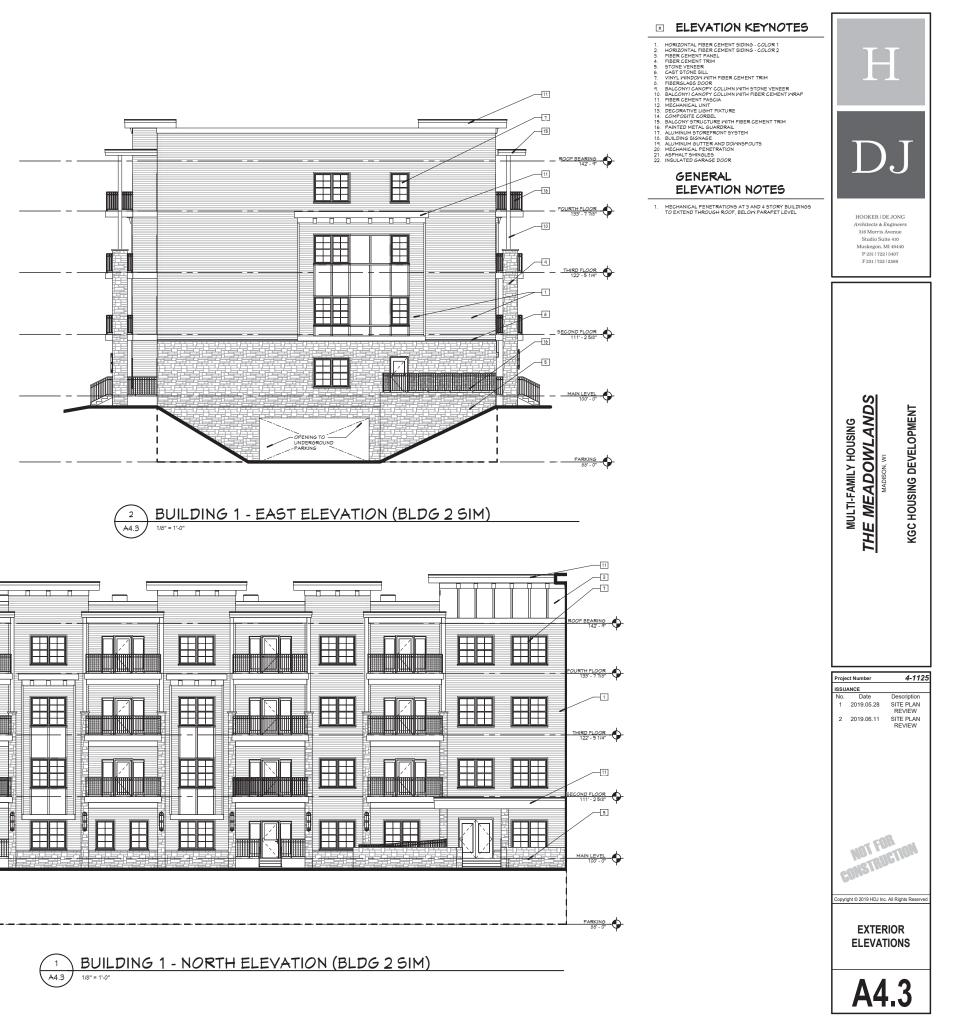




6/15/2019 6:45:43 AM C:\1-Revit Projects\4-11

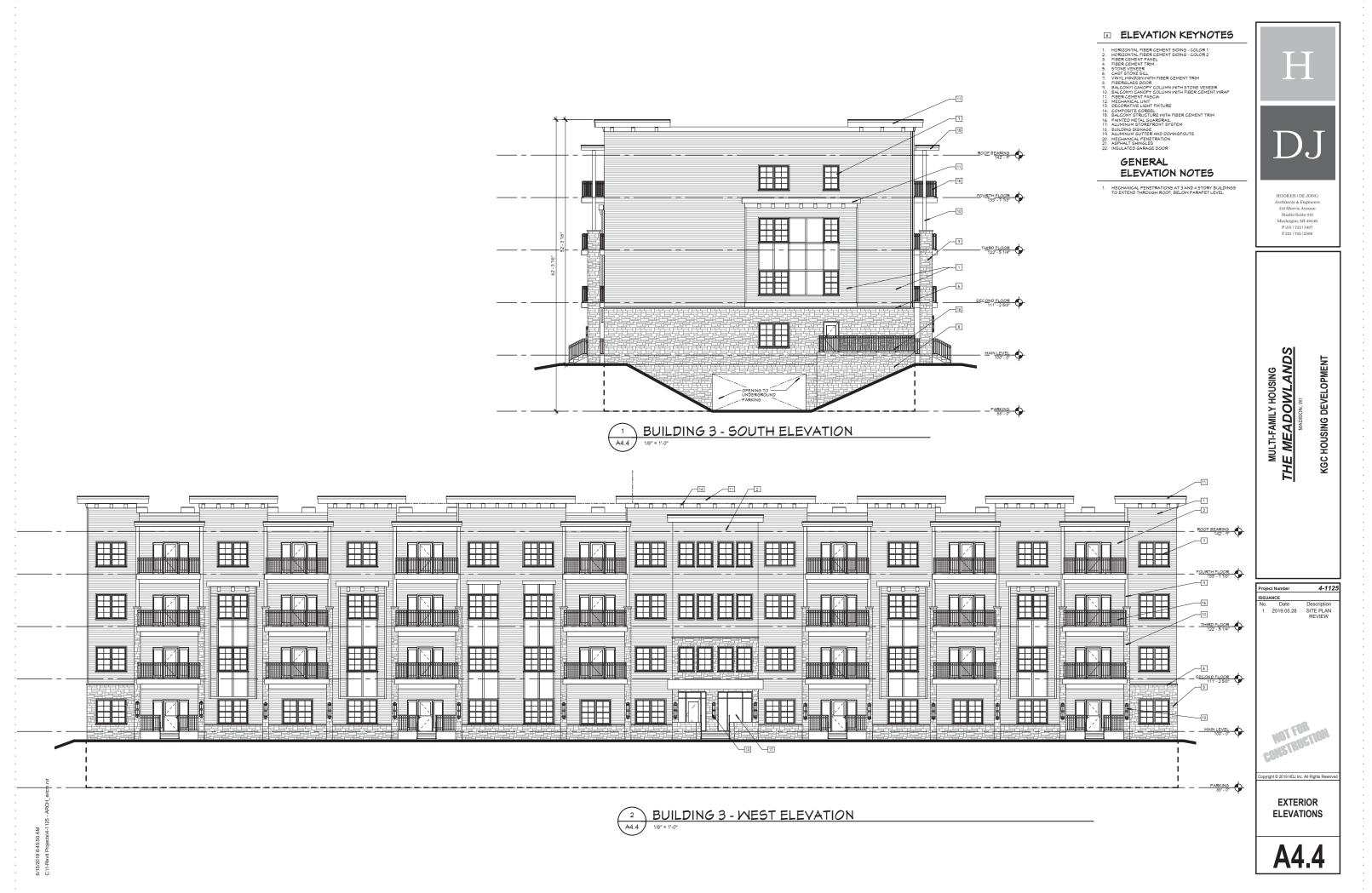
DUILDING 1 - EAST ELEVATION (BLDG 2 SIM) A4.2 1/8" = 1'-0"

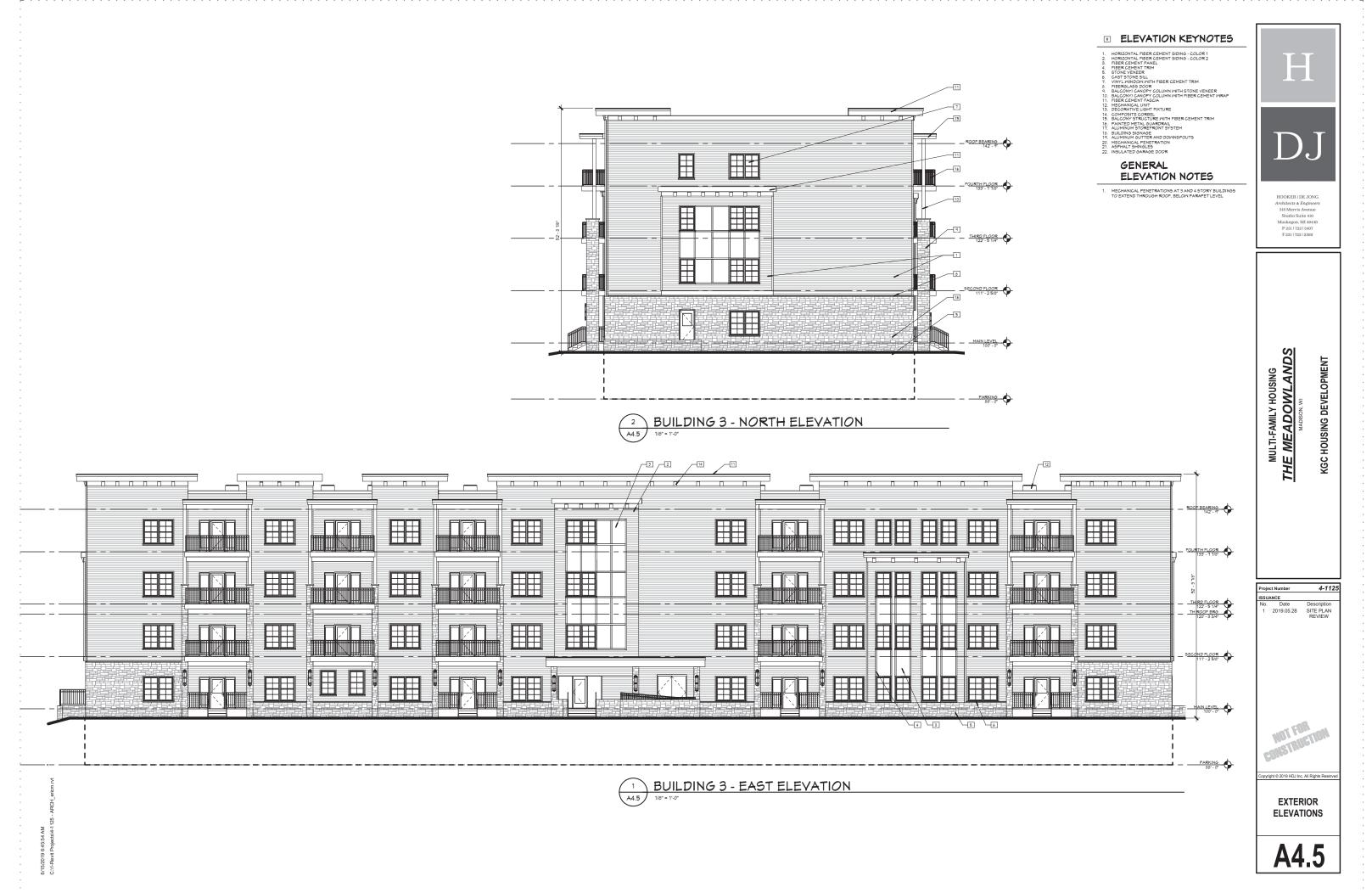




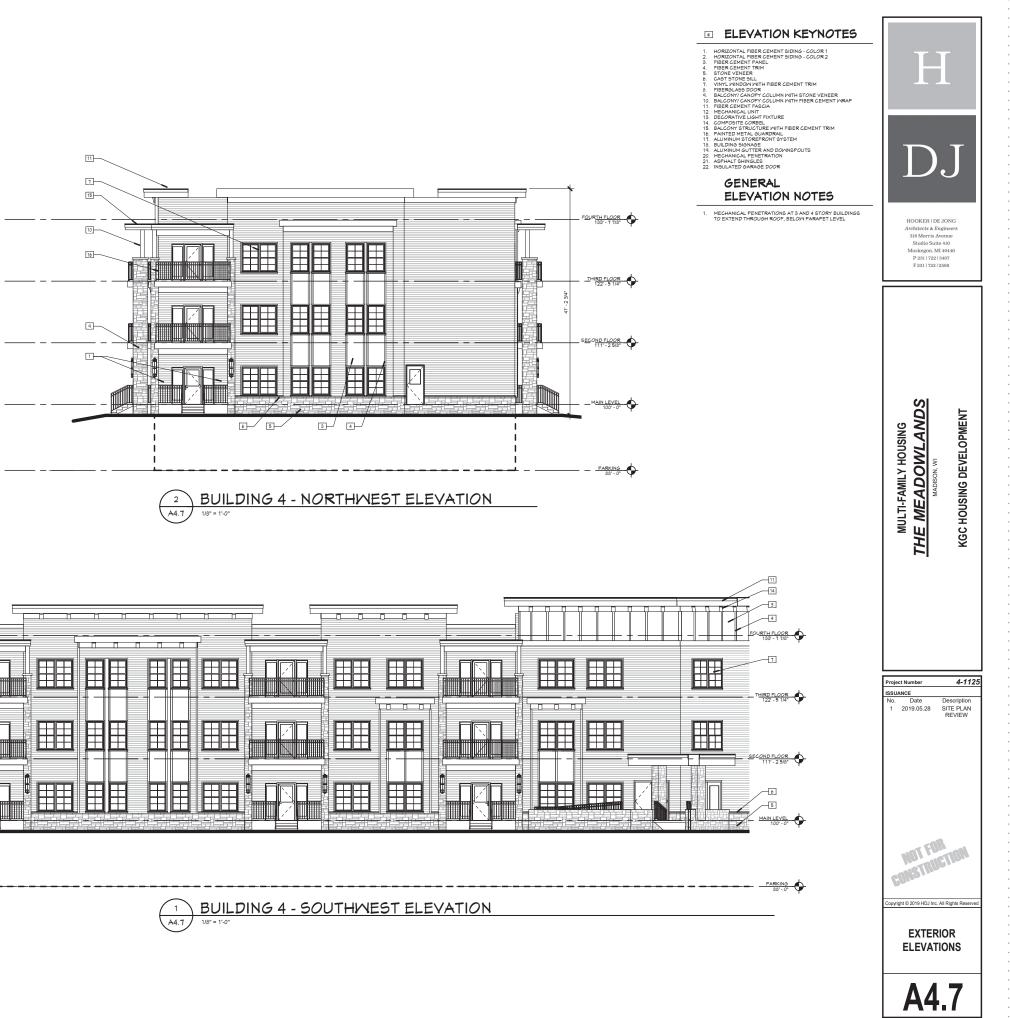


6/15/2019 6:45:46 AM C:\1-Revit Projects\4-11



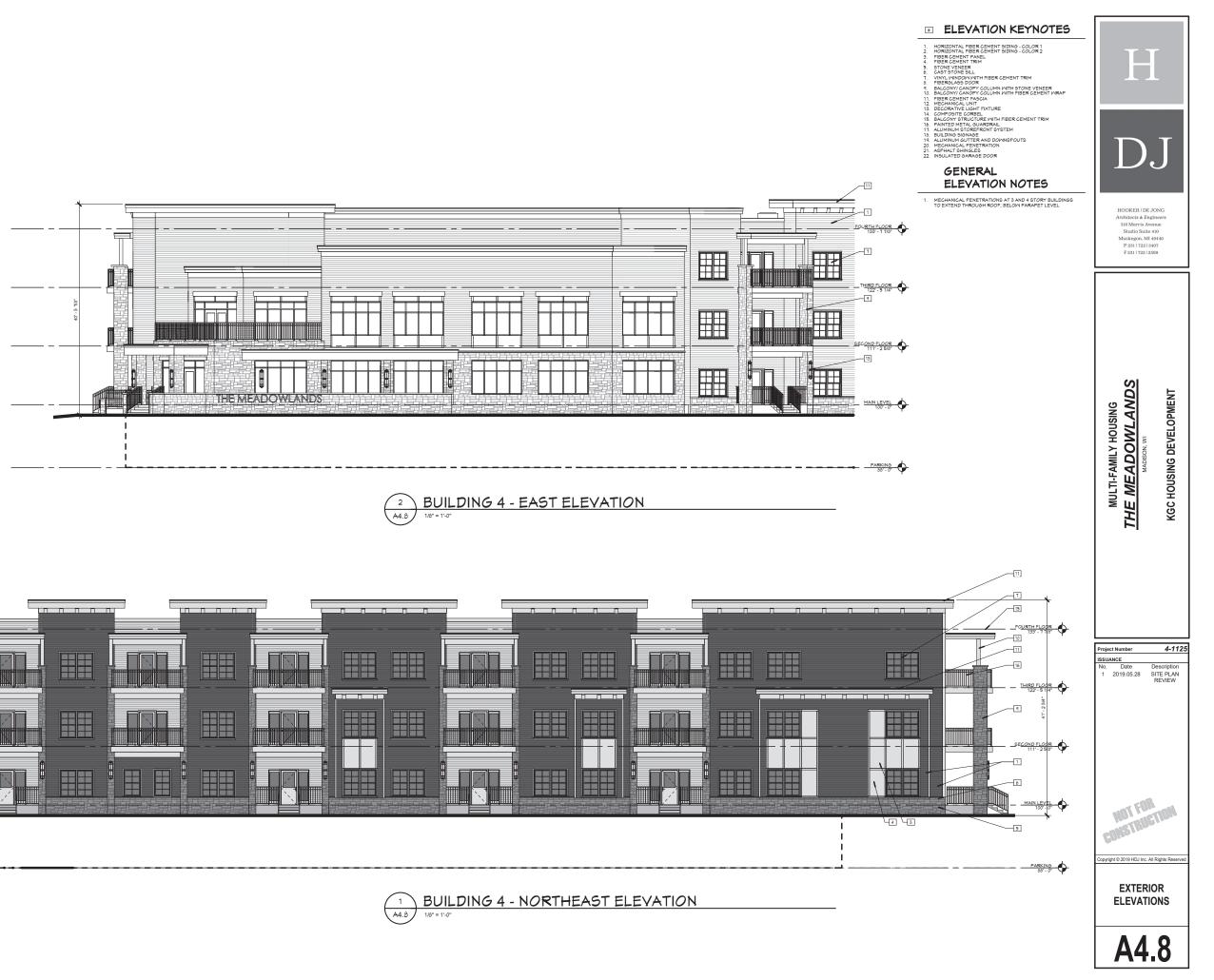














6/15/2019 6:46:13 AM C:\1-Revit Projects\4-11