

project information

project scope

New construction of multi-family residences. The project consists of two phases. Phase 1 is (3) multifamily buildings, each are 3-4 stories. Phase 2 are (16) three-story rowhouses with garages.

zoning information

ZONE: MF 24
PARKING REQUIREMENTS:
1 space per studio apartment
1.5 spaces per one-bedroom
2 spaces per 2-bedroom rowhouse

phase two counts

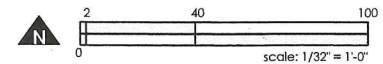
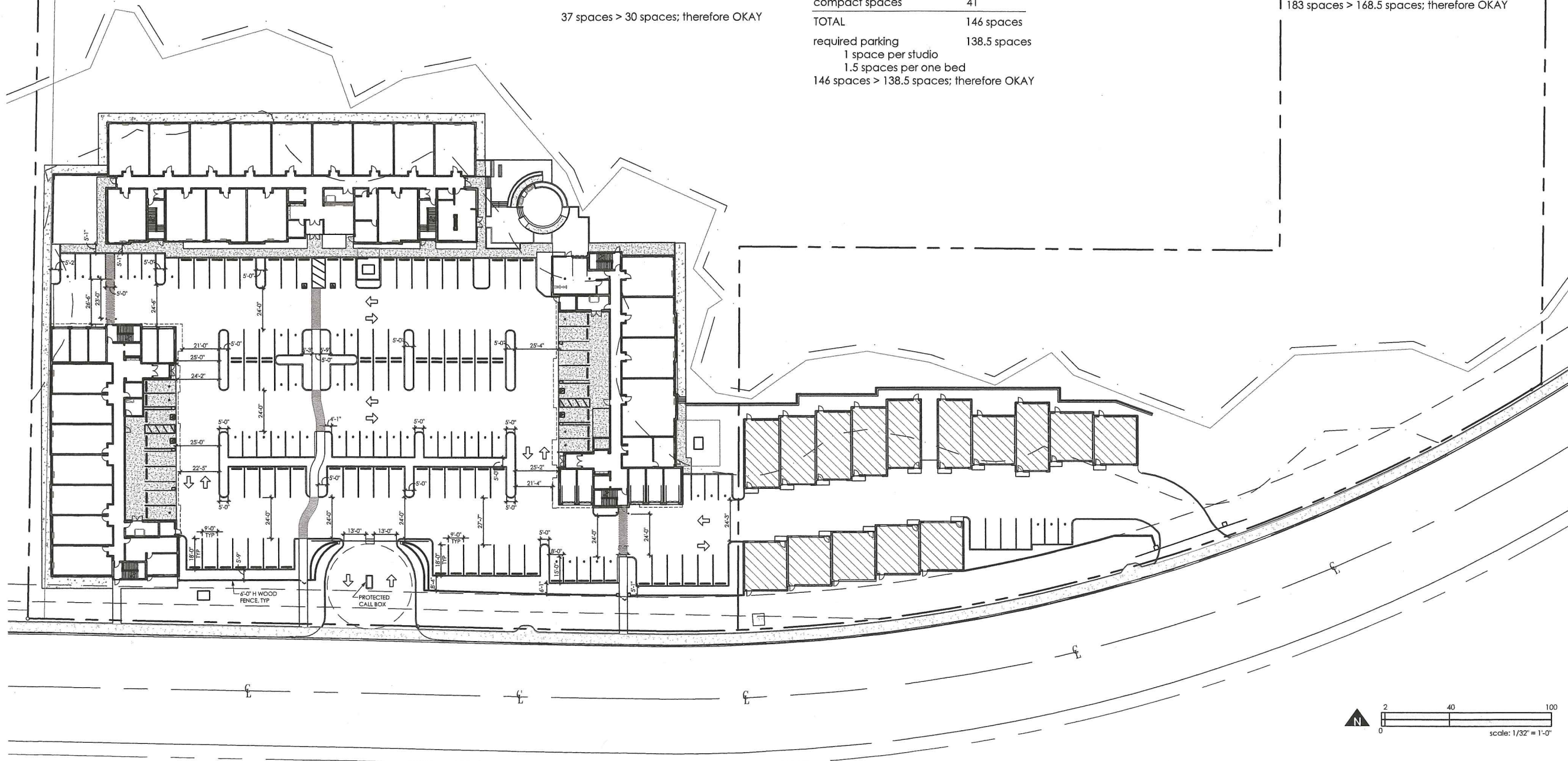
units	
two/three bed rowhouses	15 units
parking	
garage spaces	2 per unit (30)
parking spaces	4
compact spaces	3
TOTAL	37 spaces
required parking	30 spaces
2 spaces per unit	
37 spaces > 30 spaces; therefore OKAY	

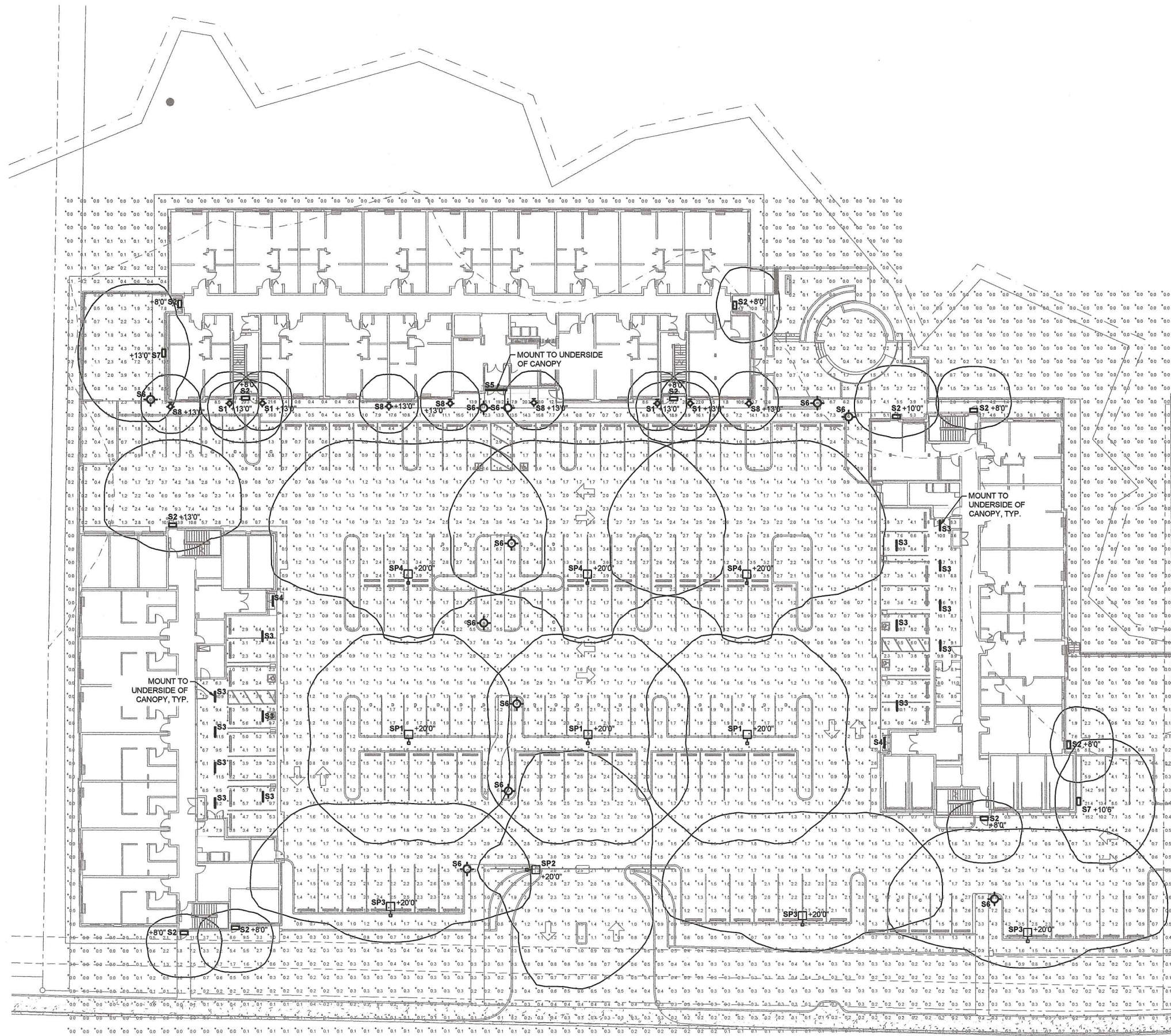
phase one counts

units	
west building	36 units
north building	65 units
east building	34 units
TOTAL	135 UNITS
parking	
garage spaces	10
covered (tuck-under)	16
standard	79
compact spaces	41
TOTAL	146 spaces
required parking	138.5 spaces
1 space per studio	
1.5 spaces per one bed	
146 spaces > 138.5 spaces; therefore OKAY	

overall counts

units	
studio apartments	128
one bed + den	7
two/three bed rowhouses	11
TOTAL	146 units
parking summary	
apartments - spaces	146
rowhouses - spaces	37
TOTAL	183 spaces
required parking	168.5 spaces
1 space per studio	
1.5 spaces per one bed	
2 spaces per rowhouse	
183 spaces > 168.5 spaces; therefore OKAY	







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LUMINAIRE SCHEDULE													
TYPE	DESCRIPTION	MOUNTING	FINISH	LAMP	TEMP (KELVIN)	MIN. CRI	LUMENS	DIMMING	MANUFACTURER	CATALOG #	VOLTAGE	INPUT WATTS	NOTES
SITE AND EXTERIOR BUILDING-MOUNT													
SP1	POLE-MOUNT AREA LIGHT, TYPE 5, WITH POLE	POLE	BRONZE	LED	3000	80	8,573		LITHONIA	LUMINAIRE:DSX1-LED-P2-30K-T5M-MVOLT POLE: SSS	MVOLT	70	POLE LENGTH VARIES FOR 20'0" MOUNTING HEIGHT, SEE PLANS
SP2	POLE-MOUNT AREA LIGHT, TYPE 4, WITH POLE	POLE	BRONZE	LED	3000	80	8,083		LITHONIA	LUMINAIRE:DSX1-LED-P2-30K-T4M-MVOLT POLE: SSS	MVOLT	70	POLE LENGTH VARIES FOR 20'0" MOUNTING HEIGHT, SEE PLANS
SP3	POLE-MOUNT AREA LIGHT, TYPE 3, WITH POLE	POLE	BRONZE	LED	3000	80	8,263		LITHONIA	LUMINAIRE:DSX1-LED-P2-30K-T3M-MVOLT POLE: SSS	MVOLT	70	POLE LENGTH VARIES FOR 20'0" MOUNTING HEIGHT, SEE PLANS
SP4	POLE-MOUNT AREA LIGHT, TYPE 4, WITH POLE	POLE	BRONZE	LED	3000	80	11,426		LITHONIA	LUMINAIRE:DSX1-LED-P3-30K-T4M-MVOLT POLE: SSS	MVOLT	102	POLE LENGTH VARIES FOR 20'0" MOUNTING HEIGHT, SEE PLANS
S1	WALL PACK LUMINAIRE, 25 DEG UP/ 51 DEG DOWN	WALL	DARK BRONZE	LED	3000	80	UP: 2,000 DOWN: 4,000		V2	Q4LU-N-N-1-D-20-83-30-25-40-83-30-51-A5	120	60	
S2	WALL PACK LUMINAIRE	WALL	BRONZE	LED	3000		1,942		RAB	SLIM12Y	120	16	
S3	4' STRIP W/ INTEGRAL OCCUPANCY SENSOR	SURFACE OR CHAIN-HUNG	WHITE	LED	3000	80	3,000		LITHONIA	CLX-L48-3000LM-SEF-FDL-MVOLT-GZ10-30K-80CRI-WH-MSD7	MVOLT	21	FLAT DIFFUSE LENS
S4	4' CONTINUOUS LINEAR	RECESSED	VERIFY	LED	3000	80	1,560	0-10V	NULITE	RT4-03-L30-120-D-1C-FRF-XX-4'	120	14	VERIFY MOUNTING STYLE WITH CANOPY TYPE
S5	8' CONTINUOUS LINEAR	RECESSED	VERIFY	LED	3000	80	3,120	0-10V	NULITE	RT4-03-L30-120-D-1C-FRF-XX-8'	120	27	VERIFY MOUNTING STYLE WITH CANOPY TYPE
S6	6" SQAURE BOLLARD		BRONZE	LED	3000	80	2,163		RAB	BLED-24-Y-360	120	24	
S7	WALL PACK LUMINAIRE	WALL	DARK BRONZE	LED	3000	80	6,165		LITHONIA	WST LED-P3-30K-VF-MVOLT-DDBXD	MVOLT	50	
S8	WALL PACK LUMINAIRE	WALL	DARK BRONZE	LED	3000	80	4,000		V2	Q4LS-N-N-D-40-83-30-51-A5	120	40	

hetherwood

**multi-family
apartments**

20312 SE 40TH Street
Camas, WA 98607

site photometric

PROJECT ABBREVIATION: KWO
DRAWN BY: Author
DATE ISSUED: 04/13/18

**SITE PLAN -
LUMINAIRE
SCHEDULE
EP02**

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D-Series Size 1 LED Area Luminaire

Catalog Number

Notes

Type **TYPE: L1**

Specifications

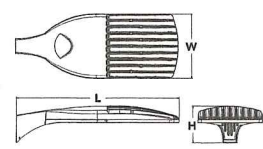
EPA: 1.2 ft² (0.11 m²)

Length: 33" (83.8 cm)

Width: 13" (33.0 cm)

Height: 7-1/2" (19.0 cm)

Weight (max): 27 lbs (12.2 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

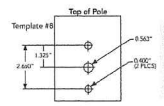
The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 - 400W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSK1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

Series	LEDs	Drive Current	Color Temperature	Distribution	Voltage	Mounting	Control Options	Accessories	Notes
DSK1 LED	30C 30 LEDs (one exposed)	570 570 mA	30K 3000K (60 CRI)	T15 Type I short	120V	SPA Square pole mounting	Shipped included	Shipped installed	DSK1 LED
	40C 40 LEDs (one exposed)	1000 1000 mA (1 A)	40K 4000K (70 CRI)	T21 Type II medium	208V	SPA Square pole mounting	Shipped included	Shipped installed	
	60C 60 LEDs (one exposed)	2000 2000 mA (2 A)	60K 6000K (80 CRI)	T35 Type III short	277V	SPA Square pole mounting	Shipped included	Shipped installed	

Drilling



DSK1 shows a unique drilling pattern with the ARS® family. Specify this drilling pattern when specifying poles, see the table below.

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Accessories

Accessories	Part Number	Description
DSK1 LED	DSK1 LED	DSK1 LED
DSK1 LED	DSK1 LED	DSK1 LED
DSK1 LED	DSK1 LED	DSK1 LED

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D-Series Size 1 LED Wall Luminaire

Catalog Number

Notes

Type **TYPE: S1**

Specifications

Width: 13-3/4" (34.9 cm)

Depth: 10" (25.4 cm)

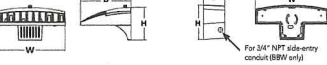
Height: 6-3/8" (16.3 cm)

Back Box (BBW, ELWCW)

Width: 13-3/4" (34.9 cm)

Depth: 4" (10.2 cm)

Height: 6-3/8" (16.3 cm)



Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSKW1 LED 20C 1000 40K T3M MVOLT DDBXTDO

Series	LEDs	Drive Current	Color Temperature	Distribution	Voltage	Mounting	Control Options	Accessories	Notes
DSKW1 LED	10C 10 LEDs (one exposed)	350 350 mA	30K 3000K (60 CRI)	T15 Type I short	120V	SPA Square pole mounting	Shipped included	Shipped installed	DSKW1 LED
	20C 20 LEDs (one exposed)	700 700 mA	40K 4000K (70 CRI)	T21 Type II medium	208V	SPA Square pole mounting	Shipped included	Shipped installed	
	30C 30 LEDs (one exposed)	1050 1050 mA (1.05 A)	60K 6000K (80 CRI)	T35 Type III short	277V	SPA Square pole mounting	Shipped included	Shipped installed	

Drilling



DSKW1 shows a unique drilling pattern with the ARS® family. Specify this drilling pattern when specifying poles, see the table below.

Accessories

Accessories	Part Number	Description
DSKW1 LED	DSKW1 LED	DSKW1 LED
DSKW1 LED	DSKW1 LED	DSKW1 LED
DSKW1 LED	DSKW1 LED	DSKW1 LED

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preliminary
not for
construction



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LITHONIA LIGHTING

Catalog Number

Notes

Type **TYPE: L1**

FEATURES & SPECIFICATIONS

INTENDED USE — The CLX is a linear lighting solution that is available in multiple lengths, lumen packages and distributions. Designed for versatility, the CLX can address virtually any indoor lighting need. The CLX is also offered in standard and high efficacy configurations and capable of being continuous row mounted or installed as a stand-alone fixture. Ideal for upright and downlight in commercial, retail, manufacturing, warehouse, and display applications. Certain outdoor environments can diminish the integrity of acrylic and polycarbonate. [Click here for Acrylic/Polycarbonate Compatibility table for outdoor uses.](http://www.lithonia.com)

CONSTRUCTION — Channel and cover are formed from code-gauge cold-rolled steel. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a 7/16" knock-out for continuous mounting but can be ordered without. Finish: Paint options include high-gloss, baked white polyester (WPL), galvanized (GALV), matte black (MBL) and smoke grey (SGY). Five-stage zinc phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Offers in lens and lens-free configurations. Provides a choice of optical distributions including wide, narrow, and aisle.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring color-rendering operation. Optional internal plugable wiring harness for reduced labor cost in row mounting applications. See P.E.L. — ordering information on page 1. Electronic LED driver in multiple wattage and 0-10V dimming standard (see Operational Data on page two for actual wattage consumption). This feature is designed to withstand a maximum line surge of 2.5 kV @ 0.75 kA combination wave for indoor locations. For applications requiring higher level of protection additional surge protection must be provided.

Equipped with Acuity™ — The CLX is enabled with Acuity™, making it part of the Acuity™ Sensory Network and ready to deliver valuable data and connectivity to the Acuity™ Platform. For more information concerning Acuity™ solutions, please refer to www.acuitybrands.com/acuity.

L70-100,000 hours at 25° C.

LEDs provide nominal 80 CRI or 90 CRI at 3000 K, 3500 K, 4000 K, or 5000 K.

Lumen output up to 2,500 lumens per foot.

INSTALLATION — Fixture may be ceiling or wall mounted (with or without TRCXL hanger or angle mounted with CLXANGBRT), pendant or stem mounted with appropriate mounting options.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4F (-20°C) and 104°F (40°C). Optional high ambient (HAI) ratings to 127°F (53°C) available on certain lumen packages (see ambient temperature chart for additional information).

DesignLights Consortium (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.dlcqualified.org to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/warrantyterms_and_conditions.asp.

Note: Actual performance may differ as a result of end-use environment and application. All values are design or typical values, measured under laboratory conditions at 25° C. Specifications subject to change without notice.

Stock configurations are offered for shorter lead times:

Stock Part Number	UPC	DLC Product ID	DLC Premium
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352816	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352885	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352939	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352980	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352981	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352982	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352983	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352984	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352985	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352986	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352987	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352988	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352989	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352990	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352991	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352992	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352993	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352994	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352995	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352996	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352997	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172352998	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 40K BACH WPL	0019172352999	PIAN02K4	Yes
CLX L40 3000LM SEF FUL MVOLT G210 50K BACH WPL	0019172353000	PIAN02K4	Yes

Capable Luminaire

This item is an A+ Capable Luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for "light" or "Xplore" Wireless control networks marked by a [lighted background](http://www.acuitybrands.com/light)
- To learn more about A+, visit www.acuitybrands.com/light.
- *See ordering tree for details

CLX

Page 1 of 16

SLIM12Y

Catalog Number

Notes

Type **TYPE: L1**

Technical Specifications

UL Listing: Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

DLC Listed: This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

ADA Compliant: SLIM12Y is ADA Compliant.

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

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

Construction

IP Rating: Ingress Protection rating of IP68 for dust and water.

Cold Weather Starting: Minimum starting temperature is -40°C (-40°F).

Maximum Ambient Temperature: Suitable for use in 40°C (104°F) ambient temperatures.

Housing: Precision die-cast aluminum housing.

Mounting: Heavy-duty mounting bracket with hinged housing for easy installation.

Recommended Mounting Height: Up to 8 ft.

Lens: Tempered glass lens.

Reflector: Spectral thermoplastic.

Gaskets: High-temperature silicone.

Finish: Formulated for high-durability and long lasting color.

Green Technology: Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

LED Characteristics

LED: Multi-chip, long-life LED.

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

Color Consistency: 3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability: LED color temperature is warranted to shift no more than 2000K in CCT over a 5-year period.

Color Uniformity: RAB's range of CCT (Correlated Color Temperature) follows the guidelines for the American National Standard for Specifications for the Chromaticity of Solid State Lighting (CSLL) Products, ANSI C78.377-2017.

Electrical

Driver: Constant Current, Class 2, 100-277V, 50/60 Hz, 40V surge protection, 350mA, 180-240VAC, 0.3-0.15 Amps, 277VAC 0.15Amps, Power Factor 99%.

Patents: The design of the SLIM12Y is protected by patents in U.S. Pat. 5,581,864, and pending patents in Canada, China, Taiwan and Mexico.

HID Replacement Range: Replaces 70W Metal Halide.

Buy American Act Compliance: RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

BUG Rating: B1 UO G0

Need help? Tech help line: (888) RAB-1000 Email: sales@rabweb.com Website: www.rabweb.com

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hetherwood

multi-family
apartments

20312 SE 40TH Street
Camas, WA 98607

design development

PROJECT ABBREVIATION: KWO
DRAWN BY: Author
DATE ISSUED: 02/16/18

SITE PLAN -
LUMINAIRES

EP01

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